CITY OF
AGOURA HILLS

DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

ACTION DATE:	March 7, 2013
TO:	Planning Commission
APPLICANT:	SAC Wireless for Sprint Nextel Inc. 5865 Avenida Encinas Carlsbad, CA 92008
CASE NO.:	12-CUP-002
LOCATION:	30125 Agoura Road (2061-005-058)
REQUEST:	Request for approval of a Wireless Telecommunications Facilities Permit/Conditional Use Permit to replace six (6) panel antennas with four (4) new antennas on a building, with a screen and new accessory equipment within an equipment shelter and behind the screens.
ENVIRONMENTAL DETERMINATION:	Categorically Exempt under CEQA per Section 15303 and independently, exempt pursuant to the general rule in Section 15061(b)(3).
RECOMMENDATION:	Staff recommends approval of Wireless Telecommunications Facilities/Conditional Use Permit Case No. 12-CUP-002, subject to conditions, based on the findings of the attached Draft Resolution.
ZONING DESIGNATION:	Commercial Shopping Center – Freeway Corridor Overlay (CS-FC)
GENERAL PLAN DESIGNATION:	Commercial Shopping Center

I. PROJECT BACKGROUND AND DESCRIPTION

SAC Wireless, an authorized representative for Sprint Nextel, has applied for a Wireless Telecommunications Facilities Permit/Conditional Use Permit to replace the antennas of wireless telecommunications facilities in the Agoura Hills Towncenter. The two-story shopping center is located at 30105-30131 Agoura Road, east of Reyes Adobe Road and south of the 101 Freeway. The site is zoned Commercial Shopping Center – Freeway Corridor (CS-FC). In 1997, the

Planning Commission approved a Conditional Use Permit submitted by Cox of California to install twelve (12) wall-mounted antennas, one (1) Global Positioning System (GPS) antenna and a roof-mounted equipment cabinet located in the center of the northerly building (Case No. 97-CUP-001). In 2002, AT&T proposed a similar installation with ten (10) wall-mounted antennas (only nine (9) were installed), one (1) Global Positioning System (GPS) antenna, one (1) Location Measurement Unit (LMU) antenna and one (1) enclosed equipment shelter with associated wiring encasements between the antennas and the equipment (Case No. 02-CUP-003). More recently in 2012, AT&T received an approval (Case No. 11-CUP-003) to upgrade the technology of the facilities for all nine (9) antennas with new antennas in the same locations of the existing two-story building and add three (3) additional antennas. The antennas were conditioned to be screened with a radio frequency (RF) emission-transparent material similar to the stuccoed wall already used at the Towncenter. Accessory equipment was proposed to be added to the enclosed equipment shelter, which currently serves the facilities, on the exterior deck of the second floor near the existing air conditioning units.

The applicant proposes to replace six (6) antennas currently on the building with four (4) new antennas in the same general locations on the existing two-story building at the Agoura Towncenter. The antennas would be installed similar to their current installation, in three groupings of one and two antennas. One grouping would be located on one of the east facing elevations and one other grouping on each side of the northwest corner of the building below the roof line. In all installations, the antennas would be screened with a radio frequency (RF) emission-transparent material similar to the stuccoed wall already used at the Towncenter. Accessory equipment will be added next to the antennas and in the equipment area on top of the roof. The roof equipment is not accessible to the public.

II. STAFF ANALYSIS

The new Wireless Telecommunications Facilities (WTF) Ordinance, adopted in September 2011, establishes allowed zones for wireless telecommunications facilities, and establishes new processes and submittal requirements. In particular, the Ordinance provides standards for the appearance of the facilities and requires the facilities to be camouflaged. The review process consists of three tiers. Tier I can be approved by the Director of the Planning and Community Development Department, and consists of certain types of facilities in the Business Park-Manufacturing zone only. Tier II includes most other wireless facilities and locations, and requires a Conditional Use Permit or an Amendment to an existing Conditional Use Permit, and is subject to the Planning Commission's review and approval. Finally, Tier III requires Planning Commission approval, and includes the projects that require an Exception to the provisions of the Ordinance (e.g. dimensions, design characteristics).

Per the Ordinance, this application falls under the Tier II review process, which requires a new Conditional Use Permit subject to the Planning Commission's approval.

The primary function of the existing two-story building is retail and office use. The applicant is proposing to attach wireless telecommunications facilities to the walls of the building in order to serve three "sectors" (separate locations on the building, each with a directional antenna situated toward a specific coverage area) and place the ancillary equipment within the existing equipment shelter. One important requirement of the Ordinance that was considered when reviewing this

application was the need to camouflage the antennas. The applicant worked with staff to adequately screen the antennas so they appear as part of the building's structure.

Currently, the facility consists of six (6) antennas attached to the exterior of the building on three sides. The antennas are visible from the outside. Replacing them using the same installation methods would not comply with Section 9661.5.B. of the Ordinance, as they would not be camouflaged. The applicant proposes to replace all six (6) with four (4) new with different dimensions. Two of the four antennas measure seventy-two (72) inches high, by twelve (12) inches wide, by seven (7) inches deep; one other antenna measures fifty-two (52) inches high, by thirteen (13) inches wide, by three (3) inches deep, and another antenna measures fifty (50) inches high, by eleven (11) inches wide, by four (4) inches deep. The antennas would be in the same locations as currently existing. The clusters of antennas are referred to as sectors. The cluster of antennas facing north is called out as Sector A on the plans; Sector A would use two antennas fifty and fifty-two inches tall and would be installed nine (9) feet apart from each other. The size of antennas was selected in order not to block the second story window. Sectors B and C use one seventy-two inches high antenna each. In all three locations, a remote radio head unit is added to extend the coverage of the BTS cabinet and would be connected via a fiber optic cable. These units are either installed behind the building wall or next to the antenna. In order to comply with Section 9661.5.B., an RF emission-transparent material is proposed as a camouflaging solution for all three sectors. The screens would all be ninety-six (96) inches and seventy-two (72) inches tall (around 12 feet wide). The screening material would be textured and painted to match the existing finish.

All new antennas come with new equipment. Currently, the facility operates with four (4) different equipment cabinets, including a Telco cabinet, Sprint BBU cabinet, Sprint power cabinet and a Sprint Modcell cabinet. The BBU, power and Modcell cabinets are proposed to be removed and replaced by one new battery cabinet, sixty (60) inches high, by thirty (30) inches wide, by thirty-one (31) inches deep and one new Modcell BTS cabinet seventy-two (72) inches high, by thirty-six (36) inches wide, by thirty-two (32) inches deep. The new equipment occupies less surface area than the previous equipment, thereby minimizing potential for visual impacts. The equipment rests on the roof and is screened from view by surrounding hip and parapet roofs, and a screen wall in the front and rear. The equipment is only accessible through a roof trap door.

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 support, or accessory, equipment would be placed in the same area where the existing equipment is behind a screen wall, consistent with the Ordinance.

Staff supports the use of RF emission-transparent material for the screen box. Given the architectural style of the building, staff finds that it would be the most aesthetically pleasing

method of screening in order to blend in with the rest of the construction materials. The new textured screen will add to the architectural detail on a wall void of architectural details.

The additional accessory equipment used to control the antennas will be located in the equipment area on the roof, away from the public access and visibility. The equipment area is screened by walls on the north and south sides and roofs on the east and west sides.

The Ordinance also requires that the existing vegetation provide the greatest amount of screening to minimize potential visual impacts. The existing vegetation is not sufficient to screen the proposed facilities, and there is insufficient planter space to add vegetation to shield the facilities from view. However, additional landscaping is not necessary, as the materials and colors of the proposed wall and box shielding blend well with the existing architectural theme of the building, and will be made integral to the structure of the building itself. While not necessary for screening purposes, the existing vegetation in the planters surrounding the building would be retained.

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.

Conditional Use Permit Findings:

In order for a Conditional Use Permit to be approved, the applicant must demonstrate compliance with all six of the Conditional Use Permit findings, as well as all four of the wireless telecommunication facilities specific findings specified in the Zoning Ordinance in Section Nos. 9673.2.E and 9661.7.

1. The Planning Commission must find that 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 Commercial Shopping Center – Freeway Corridor Overlay zone subject to the issuance of a Conditional Use Permit. The stated purpose of the Freeway Corridor Overlay District is to protect the City's image and future development. The wall-mounted antennas will be completely screened with an RF emission-transparent material stuccoed and painted to match the color of the building. The addition of the screen box to the façade will not create a visual distraction or block views along the freeway. The facilities' dimensions and locations on the building would be consistent with the provisions of the Ordinance. The accessory equipment would be located on top of the roof, and will be shielded by existing hip and parapet roofs, and a screen wall.

2. A second finding the Planning Commission must make to approve the Conditional Use Permit is that the proposed use is compatible with the surrounding properties. There are existing commercial and office uses to the east, west and south of the site and the facility will be placed on an existing commercial building. The equipment would be adequately screened from view from Agoura Road and the 101 Freeway by new walls painted to match the building. In addition, the accessory mechanical equipment would be entirely

contained in the existing equipment area on the roof. This equipment is enclosed and shielded by roof elements and a screen wall. The use is consistent with the Commercial Shopping Center, Freeway-Corridor Overlay zoning designations and is appropriate for this commercial area since the use provides a communication service to neighboring commercial properties, as well as to other properties and to motorists on the 101 Freeway. The antennas will not interfere with any of the existing businesses on or around the proposed site.

3. The Planning Commission must also find that 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's Building Code, and are subject to inspection by the City's Building Department to ensure they are constructed in a safe manner. The Federal Communication Commission (FCC) also regulates wireless telecommunications facilities, with regard to other related health and safety issues, particularly RF emissions, and establishes thresholds of RF emissions beyond which a facility cannot exceed. Pursuant to the conditions of approval, and the Ordinance, the applicant must demonstrate continued compliance with the FCC emission thresholds.

4. Another finding the Planning Commission must make is that the proposed use will comply with each of the applicable provisions of the Zoning Ordinance. Wireless telecommunications facilities are allowed in the Commercial Shopping Center – Freeway Corridor Overlay zone, subject to the issuance of a Conditional Use Permit. Each of the proposed antennas, as well as the accessory equipment, will comply with the applicable provisions of the Zoning Ordinance relative to the use, the property location, and the facility dimensions and appearance. The antennas and ancillary equipment will be placed on an existing building and no expansion of the existing building area is proposed.

5. A finding must also be made that the distance from other similar and like uses is sufficient to maintain the diversity within the community. The building hosts another wireless telecommunication provider with wall-mounted antennas and roof-mounted equipment. The proximity of the building to the freeway, and the elevation of the building pad, with very little obstacles to block transmission of waves, provides a suitable environment for locating a wireless telecommunication facility. Over the years, other facilities have been approved on other commercial buildings in the vicinity of the proposed location. In this case, with the proposed design, the facilities would remain shielded from public view and would not contribute to visual over-concentration of similar uses.

6. Finally, a finding must be made that the proposed use is consistent with the goals and policies of the General Plan with respect to wireless telecommunication facilities. The General Plan states that:

> 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 or 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 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 behind a screen or existing wall, painted to match the building, and will not be visible from public view. The accessory equipment will be on the roof away from pedestrian circulation and visibility.

Wireless Telecommunication Facilities Findings:

In addition to the Conditional Use Permit findings, the Planning Commission must make the following wireless telecommunications facilities findings per Section 9661.7 of the Ordinance:

1. The proposed facility has been designed and located in compliance with all applicable provisions of the Ordinance. The wireless use remains secondary to the main office/retail use on this parcel and is permitted in this zone with a conditional use permit. It has been designed to effectively screen and camouflage the antennas. The associated equipment will be installed on the roof of the building and out of public view. Further, the applicant has completed the supplemental application to the satisfaction of the Director of Planning and Community Development, which serves, in part, as compliance verification.
2. The proposed facility has been designed and located to achieve compatibility with the community. Wireless telecommunications facilities are being 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 facility wherever technically and economically feasible and where collocation would not harm community compatibility. The applicant shares the use of the building site with another provider. The project does not change this arrangement.
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 the Ordinance. The project does not increase the overall number of antennas or equipment cabinets, and the applicant has certified 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 noise effects.

Conditions of Approval specific to wireless telecommunications facilities, as outlined in the Ordinance, are included in the Draft Resolution and Conditions of Approval, and are attached to this report.

III. ENVIRONMENTAL REVIEW

The project is exempt under Section 15303 (Class 3) of the California Environment Quality Act. This class consists of the construction and location of limited numbers of new, small facilities or structures, or installation of small equipment into a structure. Additionally and independently, the Project is covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. It can be seen with certainty that there is no possible significant effect directly related to the Project, therefore no further action is required under CEQA pursuant to Section 15061(b)(3) of the State CEQA Guidelines (14CCR § 15061(b)(3).

IV. RECOMMENDATION

Based on the above analysis, staff recommends approval of Conditional Use Permit Case No. 12-CUP-002, subject to conditions of the attached Draft Resolution.

V. ATTACHMENTS

- Draft Resolution of Approval and Conditions of Approval
- Exhibit A: Vicinity/Zoning Map
- Exhibit B: Copy of Reduced Plans & Photo-Simulation of Proposed Project
- Exhibit C: Photos of the Building and Project Site

Case Planner: Valerie Darbouze, Associate Planner

DRAFT RESOLUTION NO._____

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF AGOURA HILLS CONDITIONALLY APPROVING WIRELESS TELECOMMUNICATIONS FACILITIES CONDITIONAL USE PERMIT CASE NO. 12-CUP-002

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

Section 1. An application was duly filed by SAC Wireless for Sprint Nextel Inc. with respect to the real property located at 30105-30131 Agoura Road (A.P.N. 2061-005-058) for a Wireless Telecommunications Facilities/Conditional Use Permit to replace six (6) panel antennas with four (4) new antennas, and add accessory equipment and associated cabling at an existing office and retail center.

Section 2. The Planning Commission of the City of Agoura Hills considered the application at a public hearing held on March 7, 2013, 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 was duly given.

Section 3. 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 4. 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 telecommunication facilities are allowed in the Commercial Shopping Center - Freeway Corridor Overlay zone subject to the issuance of a Conditional Use Permit. The stated purpose of the Freeway Corridor Overlay District is to protect the City's image and future development. The wall-mounted antennas will be completely screened with an RF emission-transparent material stuccoed and painted to match the color of the building. The additions to the building will not create a visual distraction or block views along the freeway. The facilities' dimensions and locations on the building would be consistent with the provisions of the Ordinance. The accessory equipment would be located on top of the roof, and will be shielded by existing hip and parapet roofs, and a screen wall.

2. The proposed use is compatible with the surrounding properties. There are existing commercial and office uses to the east, west and south of the site and the facilities will be placed on an existing commercial building. The equipment will be adequately screened from view from Agoura Road and the 101 Freeway by new walls painted to match the building. In addition, the accessory mechanical equipment would be entirely contained in the existing equipment area on the roof. This equipment is

enclosed and shielded by roof elements and a screen wall. The use is consistent with the Commercial Shopping Center, Freeway-Corridor Overlay zoning designations and is appropriate for this commercial area since the use provides a communication service to neighboring commercial properties, as well as other properties, and to motorists on the 101 Freeway. The antennas will not interfere with any of the existing businesses on or around the proposed site.

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's Building Code, and are subject to inspection by the City's Building Department 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 thresholds of the RF emissions beyond which a wireless telecommunications cannot exceed. Pursuant to the Conditions of Approval and the 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. The wireless telecommunications facilities are allowed in the CS-FC zone, subject to the issuance of a Conditional Use Permit. Each of the proposed antennas, as well as the accessory equipment, will comply with the applicable provisions of the Zoning Ordinance relative to the use, the property location, and the facility dimensions and appearance. The antennas and ancillary equipment will be placed on building walls 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. The building hosts another wireless telecommunication provider with both wall mounted antennas and roof-mounted accessory equipment. The proximity of the building to the freeway, and the elevation of the building pad with very little obstacles to block transmission of waves, provide a suitable environment for locating a wireless telecommunications facility. Over the years, other facilities have been approved on other commercial buildings in the vicinity of the proposed location. In this case, with the proposed design, the facilities would remain screened from public view and would not contribute to visual over-concentration of similar uses.

6. The proposed use is consistent with the goals 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 4G coverage. The General Plan requires that the installation of 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 behind a solid stuccoed screen, and the equipment behind screens on top of the building roof and behind parapet walls.

Section 5. 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 facilities remain secondary to the retail and office use on this parcel and are permitted in this zone with a conditional use permit. The facilities have been designed to effectively screen and camouflage the antennas. The associated equipment will be installed on top of the roof behind screens and out of public view. Further, the applicant has completed the supplemental application to the satisfaction of the Director of Planning and Community Development, which serves as compliance verification.

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. The applicant shares the use of the building walls and roof with another provider. The project does not change this arrangement.

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. The project does not increase the overall number of antennas or equipment cabinets, and the application has certified 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 noise effects.

Section 6. **CEQA Findings.**

A. The Planning Commission hereby finds that the approval of the project is categorically exempt from the California Environmental Quality Act (Public Resources Code Section 2100 et seq., "CEQA"), pursuant to 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, and does not have any potential for causing a significant effect on the environment. Additionally and independently, the Planning Commission finds that the Project is covered by the general rule that CEQA applies only to projects which have the potential for

causing a significant effect on the environment. It can be seen with certainty that there is no possible significant effect directly related to the project, therefore no further action is required under CEQA pursuant to Section 15061(b)(3) of the State CEQA Guidelines (14 CCR § 15061(b)(3)).

B. The custodian of records for all materials that constitute the record of proceeding upon which this decision is based is the City Clerk, and those documents are available for public review in the City Clerk's office located at 30001 Ladyface Court, Agoura Hills, California 91301.

Section 7. Based on the aforementioned findings, the Planning Commission hereby approves Wireless Telecommunications Facilities/Conditional Use Permit No. 12-CUP-002, subject to the attached Conditions of Approval, 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 7th day of March 2013, by the following vote to wit:

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

Michael Justice, Chairperson

ATTEST:

Michael Kamino, Secretary

Conditions of Approval
(Case No. 12-CUP-002)

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: 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. 12-CUP-002 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 Department prior to installation and operation.

12. The term "facility" shall mean the wireless telecommunications facility described in the application and set forth in Section 1 of the Resolution approving these conditions of approval.

WIRELESS TELECOMMUNICATIONS FACILITIES STANDARD CONDITIONS

1. The permittee shall submit an as built drawing within ninety (90) days after installation of the facility.

2. 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.

3. 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 Communications 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. "Permittee" shall include the applicant and all successors in interest to this permit.

12. The facility shall bear no signs or advertising devices other than certification, warning or other signage required by law or permitted by the City.

13. 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 eliminated, 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.

14. 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.

15. Noise.

    a. The facility shall be operated and maintained in such a manner so as to minimize any possible disruption caused by noise.

    b. 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.

    c. 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.

    d. 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.

e. 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.

16. 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.

17. 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. The permittee shall routinely inspect the facility and site to ensure compliance with the standards set forth in the Agoura Hills Municipal Code and these conditions of approval.

18. 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 unless a provision of the Agoura Hills Municipal Code provides a shorter time period for removal.

19. In the event Permittee desires to modify the facility, Permittee shall apply for and obtain all permits or permit amendments required by the Agoura Hills Municipal Code prior to making any modification to the facility. At a minimum, any application for modification to the facility shall use the screening and camouflage designs approved by this permit unless a more effective screen, concealment or camouflage design is proposed by the permittee or required by the Agoura Hills Municipal Code, or the building is remodeled such that it necessitates a new screen, concealment or camouflage design that is

consistent with the building façade. Additionally, to the extent feasible, existing equipment shall be replaced with equipment that reduces visual, noise and other impacts, including, but not limited to, replacing larger, more visually intrusive facilities with smaller, less visually intrusive facilities. "Modification" means a change to an existing wireless telecommunications facility that involves any of the following: collocation, expansion, alteration, enlargement, intensification, reduction, or augmentation, including, but not limited to, changes in size, shape, color, visual design, or exterior material. "Modification" does not include repair, replacement or maintenance if those actions do not involve a change to the existing facility involving any of the following: collocation, expansion, alteration, enlargement, intensification, reduction, or augmentation

20. 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.

21. 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.

22. 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.

23. 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 the Agoura Hills Municipal Code 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.

24. 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.

25. 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 the Agoura Hills Municipal Code 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.

26. 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.

END

City of Agoura Hills

Conditional Use Permit - Case No. 12-CUP-002

Know what's below.
Call before you dig.
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO WORKING
DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF CALIFORNIA

Sprint®

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

ROOFTOP–FLUSH
30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA
LATITUDE: 34° 08' 45.311" N
34.14592000
LONGITUDE: 118° 46' 41.088" W
–118.77808000
LOS ANGELES MARKET

SHEET INDEX

CODE BLOCK

CALIFORNIA STATE CODE COMPLIANCE:

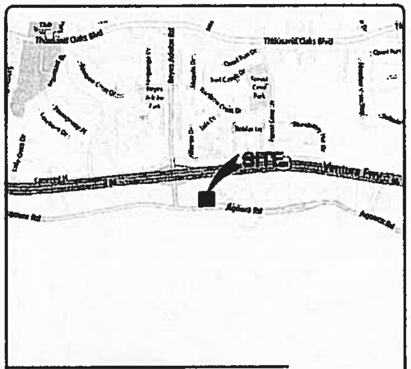
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- CALIFORNIA ADMINISTRATIVE CODE (INCL TITLE 24 & 25)
- 2010 CALIFORNIA BUILDING CODE
- CITY/COUNTY ORDINANCES
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2010 MECHANICAL CALIFORNIA CODE
- ANSI/EIA–222–F LIFE SAFETY CODE NFPA–101
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 LOCAL BUILDING CODE

ACCESSIBILITY REQUIREMENTS:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE.

VICINITY MAP



PROJECT DESCRIPTION

SPRINT PROPOSES TO MODIFY AN (E) UNMANNED TELECOMMUNICATIONS FACILITY

- REMOVE (6) (E) PANEL ANTENNAS
- INSTALL (4) (N) PANEL ANTENNAS
- INSTALL (6) (N) RRH UNITS
- REMOVE ALL (E) ANTENNA COAX
- INSTALL (3) (N) HYBRIFLEX CABLES USING (E) COAX ROUTE
- REMOVE (1) (E) MODCELL COMPACT 4.0 CABINET
- INSTALL (1) (N) MODCELL (9928) CABINET
- REMOVE (1) (E) POWER CABINET (60C)
- REMOVE (1) (E) BATTERY BACKUP UNIT CABINET (60C)
- INSTALL (1) (N) BATTERY BACK UP CABINET (60ECV2)
- INSTALL (1) (N) JUNCTION BOX

	(E) APPROVAL	(E) ON SITE	(N) MOD
# OF ANTENNAS	12	6	4
SIZE OF ANTENNAS	4'	4'	4' & 6'
EQUIPMENT	4 ROOFTOP	3 ROOFTOP	2 ROOFTOP

PROJECT TEAM

ARCHITECT:
NESTOR POPOWYCH A.I.A.
SAC WIRELESS, LLC
5875 AVENIDA ENCINAS, SUITE 142–B
CARLSBAD, CA 92008
CONTACT: DENNIS YOSHII
PH: (760) 795–5200
EMAIL: DENNIS.YOSHII@SACW.COM

STRUCTURAL:
SAC WIRELESS, LLC.
5865 AVENIDA ENCINAS, SUITE 142–B
CARLSBAD, CA. 92008

SITE ACQ PROJECT MANAGER:
ALCATEL–LUCENT
CONTACT: KEITH BARNHART
PH: (415) 404–1225

CONSTRUCTION MANAGER:
ALCATEL–LUCENT
CONTACT: KEITH BARNHART
PH: (415) 404–1225

PLANNING CONSULTANT:
SAC WIRELESS
CONTACT: JENNIFER CHESNEY
PH: (949) 235–6262

ELECTRICAL ENGINEER:
CONTACT: ROBBIE JOHNSON
PH: 818–878–4433

POWER COMPANY:
SCE
TRACY BASS
PH: 949–697–1424

TELCO COMPANY:
BRIAN BOTTS
PH: brian.botts@alcatel–lucent.com

SIGNATURE BLOCK

APPROVAL	SIGNATURE
PROJECT MANAGER	
CONSTRUCTION MANAGER	
RF ENGINEER	
SITE ACQUISITION	
PLANNING CONSULTANT	
PROPERTY OWNER	
SPRINT REP	

DRIVING DIRECTIONS

FROM SPRINT OFFICE IN IRVINE, CA:

1. DEPART COMMERCE TOWARD EL CAMINO REAL
2. TURN LEFT ONTO EL CAMINO REAL
3. TURN LEFT ONTO JAMBOREE RD
4. TAKE RAMP RIGHT AND FOLLOW SIGNS FOR I–5 NORTH
5. KEEP LEFT ONTO US–101 NORTH / SANTA ANA FWY
6. KEEP RIGHT TO STAY ON US–101 NORTH
7. AT EXIT 38, TAKE RAMP RIGHT AND FOLLOW SIGNS FOR REYES ADOBE RD
8. TURN LEFT ONTO REYES ADOBE RD
9. TURN LEFT ONTO AGOURA RD
10. ARRIVE AT 30125 AGOURA RD, AGOURA HILLS, CA 91301 (IF YOU REACH AGOURA CT, YOU'VE GONE TOO FAR)

PROJECT SUMMARY

APPLICANT:
SPRINT
310 COMMERCE
IRVINE, CALIFORNIA 92602
CONTACT: TBD
PH: TBD

PROPERTY INFORMATION:
PROPERTY OWNER: AGOURA HILLS TOWN CENTER JOINT VENTURE
ADDRESS: WFC VENTURES LP C/O WESTRUST
27001 AGOURA RD. STE. 300
CALABASAS HILLS, CA 91301
CONTACT: RICARDO CAPRETTA
PH: 818–878–9300

ZONING CLASSIFICATION: –
BUILDING CODE: 2010 CBC
CONSTRUCTION TYPE: V–N
OCCUPANCY: B
JURISDICTION: AGOURA
CURRENT USE: TELECOMMUNICATIONS FACILITY
PROPOSED USE: TELECOMMUNICATIONS FACILITY

PARCEL NUMBER(S):
2061–005–058 ⚠

LEASE AREA:
APPROX 200 SQ FT (E)

Sprint
Alcatel-Lucent
SAC WIRELESS ENGINEERING GROUP

PROJECT INFORMATION:
NETWORK VISION MMBTS LAUNCH
LINDERO
LA03XC201
30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE: 02/10/12

ISSUED FOR: 100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
C	02/02/12	100% CD	AMF
D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
⚠	10/9/12	CITY COMMENTS	XS
⚠	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE–SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

CITY OF AGOURA HILLS
JAN 22
CITY

SHEET TITLE: TITLE SHEET

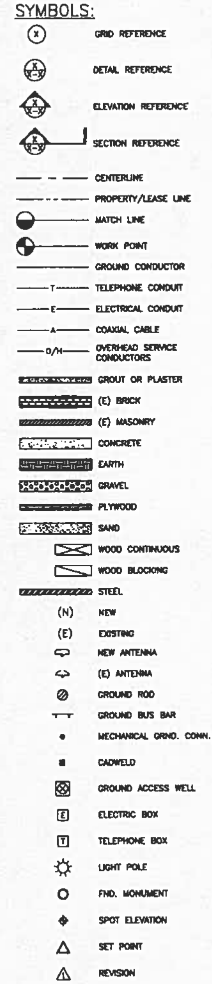
SHEET NUMBER: T-1

REVISION: F

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY CARRIER OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES AS THEY MAY BE DISCOVERED IN PLANS, DOCUMENTS, NOTES, OR SPECIFICATIONS PRIOR TO STARTING CONSTRUCTION INCLUDING, BUT NOT LIMITED BY, DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF CARRIER CONSTRUCTION PROJECT MANAGER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY CARRIER CONSTRUCTION PROJECT MANAGER.
2. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE (N) PROJECT. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR HAVING BEEN AWARDED THIS PROJECT SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT VERBALLY AND IN WRITING.
3. FOR COLLOCATION SITES: CONTACT BUILDING PROPERTY OWNER'S REPRESENTATIVE FOR PARTICIPATION IN BID WALK.
4. THE ARCHITECT HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.
5. OWNER, CONTRACTOR, AND CARRIER CONSTRUCTION PROJECT MANAGER SHALL MEET JOINTLY TO VERIFY ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION.
6. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
8. THE CONTRACTOR SHALL PROVIDE CARRIER PROPER INSURANCE CERTIFICATES NAMING CARRIER AS ADDITIONAL INSURED, AND CARRIER PROOF OF LICENSE(S) AND PE & PD INSURANCE.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
10. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
11. THE CONTRACTOR SHALL STUDY THE STRUCTURAL, ELECTRICAL, AND MECHANICAL PLANS AND CROSS CHECK THEIR DETAILS, NOTES, DIMENSIONS, AND ALL REQUIREMENTS PRIOR TO THE START OF ANY WORK.
12. THE REFERENCES ON THE DRAWINGS ARE FOR CONVENIENCE ONLY AND SHALL NOT LIMIT THE APPLICATION OF ANY DRAWING OR DETAIL.
13. ALL (E) CONSTRUCTION, EQUIPMENT, AND FINISHES NOTED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE WITH THE FOLLOWING EXCEPTIONS:
    A. PROPERTY NOTED IN WRITING TO BE RETURNED TO THE OWNER.
    B. PROPERTY NOTED IN WRITING TO BE REMOVED BY THE OWNER.
14. PRIOR TO THE POURING OF ANY NEW SLAB OVER AN (E) SLAB THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, CHASES, AND EQUIPMENT WHICH ARE TO BE INCORPORATED INTO THE NEW WORK. ALL ITEMS DESIGNATED TO BE ABANDONED SHALL BE NOTED AND DISCUSSED WITH THE OWNER AND CARRIER CONSTRUCTION MANAGER AS PART OF THE AS-BUILT DRAWING PACKAGE.
15. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THIS PROJECT SITE.
16. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING, CONSTRUCTION, AND ANY OTHER PROJECT EFFORT AS MANDATED BY THE GOVERNING AGENCY.
17. THE COMPLETED PROJECT SHALL COMPLY WITH LOCAL SECURITY CODES AND TITLE-24 ENERGY CONSERVATION REQUIREMENTS. (TITLE-24 WHEN APPLICABLE)
18. ALL RF TRANSPARENT GLASS AND GLAZING IS TO COMPLY WITH CHAPTER 54 OF THE U.S. CONSUMER SAFETY COMMISSION - SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS (42 FR 1428, CFR PART 1201) AND LOCAL SECURITY REQUIREMENTS.
19. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT (E) SITE IMPROVEMENTS, HARDSCAPING, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
20. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
21. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, DIRT, FIRE, AND FALLING OBJECTS AS REQUIRED BY THE GOVERNING AGENCIES.
22. THE CONTRACTOR IS RESPONSIBLE FOR THE STORAGE OF ALL BUILDING MATERIALS AND SHALL NOT DO SO ON PUBLIC PROPERTY WITHOUT A PERMIT FROM THE GOVERNING AGENCIES.
23. GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
24. TRADES INVOLVED IN THE PROJECT SHALL BE RESPONSIBLE FOR THEIR OWN CUTTING, FITTING, PATCHING, ETC., SO AS TO BE COORDINATED TO THE WORK OF OTHER TRADES.
25. CARRIER DOES NOT GUARANTEE ANY PRODUCTS, FIXTURES, AND/OR ANY EQUIPMENT NAMED BY A TRADE OR MANUFACTURER. GUARANTEE OR WARRANTY THAT MAY BE IN EFFECT IS DONE SO THROUGH THE COMPANY OR MANUFACTURER PROVIDING THE PRODUCT, FIXTURE, AND/OR EQUIPMENT ONLY; UNLESS SPECIFIC RESPONSIBILITY IS ALSO PROVIDED BY THE CONTRACTOR/SUBCONTRACTOR IN WRITTEN FORM.
26. WHEN APPLICABLE, CONTRACTOR IS RESPONSIBLE TO CALL, COORDINATE AND/OR MAKE ARRANGEMENTS FOR RIGHT-OF-WAY AND/OR PRIVATE PROPERTY ACCESS BASED ON SPECIFIC SITE REQUIREMENTS.
27. CONTRACTORS TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO CARRIER ALONG WITH REDLINED CONSTRUCTION SET.
28. CONTRACTOR SHALL DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (REDLINING) THE APPROVED CONSTRUCTION SET AND SUBMITTING THE REDLINED ALONG WITH PHOTOGRAPHS PER CARRIER REQUIREMENTS.
29. GENERAL CONTRACTOR IS TO COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED. CONTRACTOR TO REPORT POWER INSTALLATION COORDINATION SOLUTION(S) TO NETWORK CARRIER REPRESENTATIVE, PROJECT CONSTRUCTION MANAGER AND ARCHITECT.
30. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY CARRIER CONSTRUCTION MANAGER.
31. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPETE AND ACCEPTED UNDER THIS CONTRACT; UNLESS NOTED OTHERWISE IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR. (EXCEPTION) THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, COSIGNED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN A WATERTIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.
32. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE SAFETY OF THE OWNER'S EMPLOYEES AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
33. CARRIER WILL REVIEW AND APPROVE SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT. CARRIER PROJECT APPROVAL OF A SEPARATE ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
34. ALL ANTENNAS MOUNTED ON ROOF SUPPORT FRAMES TO BE PROVIDED BY CARRIER COMMUNICATIONS.
35. CONTRACTOR TO REPAIR ALL GROUND SURFACES WITHIN THE CONSTRUCTION AREA AS NECESSARY TO PROVIDE A UNIFORM SURFACE AND MAINTAIN (E) SURFACE DRAINAGE SLOPES.
36. CONTRACTOR TO REPLACE LANDSCAPE VEGETATION THAT WAS DAMAGED DUE TO CONSTRUCTION, AND TO MODIFY REMAINING IRRIGATION LINES TO OPERATING CONDITION, PROVIDING FULL COVERAGE TO IMPACTED AREAS.
37. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE PENETRATION OF (E) ROOFING MATERIALS OCCUR, THE GENERAL CONTRACTOR SHALL COORDINATE WITH BUILDING OWNER AND BUILDING ROOFING CONTRACTOR OF RECORD FOR INSTALLATION, PATCH, REPAIR OR ANY AUGMENTATION TO THE ROOF, AND HAVE THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S WARRANTY FOR MOISTURE PENETRATION OR AND OTHER FUTURE BREACH OF ROOFING INTEGRITY.
38. IN THE CASE OF ROOFTOP SOLUTIONS WITH THE INSTALLATION OF ANTENNAS WITHIN CONCEALED RF TRANSPARENT SCREENS, MOUNTED ON SUPPORT FRAMES OR TRIPODS, THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE FRP DESIGNER/FABRICATOR TO ENSURE THAT THE FINAL FRP SHROUD IS SIMULATING (IN APPEARANCE) DESIGNATED (E) EXTERIOR BUILDING FACADE MATERIALS, TEXTURES, AND COLORS. THE CONTRACTOR SHALL FURTHERMORE ENSURE THE USE OF COUNTERSUNK FASTENERS IN ALL FRP CONSTRUCTION. WHEN PHOTOSIMULATIONS ARE PROVIDED, THE CONTRACTOR SHALL ENSURE THAT FINAL CONSTRUCTION REPRESENTS WHAT IS INDICATED IN PHOTOSIMULATION. SHOP DRAWINGS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR, CONSTRUCTION COORDINATOR, AND ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
39. CONTRACTOR & SUBCONTRACTOR SHALL USE STAINLESS STEEL METAL LOCKING TIES FOR ALL CABLE TRAY TIE DOWNS AND ALL OTHER GENERAL TIE DOWNS (WHERE APPLICABLE). PLASTIC ZIP TIES SHALL NOT BE PERMITTED FOR USE ON CARRIER PROJECTS. RECOMMENDED MANUFACTURER SHALL BE: PANDUIT CORP. METAL LOCKING TIES MODEL NO. MLT4S-CP UNDER SERIES-304 (OR EQUAL). PANDUIT PRODUCT DISTRIBUTED BY TRIARC.
40. THIS FACILITY IS AN UNMANNED CELLULAR TELEPHONE EQUIPMENT FACILITY. THE OCCUPANCY CLASSIFICATION IS B [2007 CBC. TITLE 24, PART 2, VOLUME 1, SECTION 311.3, AND SECTION 307.1 EXCEPTION #11).
41. THIS FACILITY IS EXEMPT FROM DISABLED ACCESSIBILITY REQUIREMENTS PER 2007 CBC SECTION 1105B.3.4 EXCEPTION #1 THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
42. THE CONTRACTOR SHALL VERIFY ALL (E) CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING THEIR BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
43. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION, INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
44. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL (E) UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
45. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR (E) SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
46. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/HIRED DRAWINGS TO THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
47. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
48. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
49. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C. AND ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, AND 24. THE MOST RESTRICTIVE CODE SHALL GOVERN.
50. THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
51. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
52. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
53. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES, FEES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. HE/SHE MUST PROVIDE E911 ADDRESS TO SPRINT WIRELESS. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
54. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
55. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
56. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
57. NEW CONSTRUCTION ADDED TO (E) CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
58. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA. [2007 CFC SECTION 906-1-1 & 7 AND SECTION 906.3(1)]
59. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
60. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
61. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT CONTINUOUSLY AND PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
62. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION AS MANDATED BY THE GOVERNING AGENCY.
63. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT RESPONSIBLE FOR THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.
64. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, 115, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL ORDINANCES TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
65. THE CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
66. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THAT REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
67. GROUNDING SHALL COMPLY WITH SPRINT/NEXTEL GROUNDING STANDARDS, LATEST EDITION AND COMPLY WITH SPRINT/NEXTEL GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT, THEY SHALL GOVERN.
68. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF TEMPORARY LIGHTING AND MARKING ARE REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.
69. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
70. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE
71. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 24 HOURS OF NOTICE SHOULD BE GIVEN AND THE BUILDING INSPECTION DEPARTMENTS HAVE REQUESTED THAT GROUPS OF TWO OR THREE SITES BE SCHEDULED AT ONE TIME IF POSSIBLE.
72. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS AND TOWER DRAWINGS/ANALYSIS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF THE TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL.
73. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION..
74. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE KEPT TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO TREES AND VEGETATION OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR.
75. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS, ETC., BETWEEN THE WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.

SYMBOLS:



Sprint

Alcatel·Lucent

SAC WIRELESS ENGINEERING GROUP

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

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AGOURA

ISSUE DATE:

02/10/12

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
C	02/02/12	100% CD	AMF
D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
△	10/9/12	CITY COMMENTS	XS
△	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

SHEET TITLE:

GENERAL NOTES & SYMBOLS

SHEET NUMBER: T-2

REVISION: F

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COMPLY WITH THESE STANDARDS UNLESS OTHERWISE REQUIRED BY APPLICABLE CODES

*GENERAL CONTRACTOR SHALL COMPLY WITH OSHA AND SPRINT STANDARD SAFETY AND CONSTRUCTION PROCEDURES.

1.0 CONSTRUCTION TO CONFORM TO SPRINT NEXTEL INTEGRATED CONSTRUCTION STANDARDS

1.1 PURPOSE AND INTENT
A. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH. SHOULD THERE BE ANY DISCREPANCIES BETWEEN REQUIREMENTS SHOWN IN BOTH, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
B. THE INTENTION OR THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
C. THE PURPOSE OF THE SPRINT WIRELESS CONSTRUCTION SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF MATERIALS REQUIRED TO COMPLETE THE WORK.

1.2 CONFLICTS
A. VERIFY ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIAL OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS OR DIMENSIONS SHOWN ON PLANS. SUBMIT NOTICE OF ANY DISCREPANCY IN DIMENSIONS OR OTHERWISE TO SPRINT WIRELESS FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
B. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST OR OF DIFFICULTIES OF CONDITIONS THAT MAY BE ENCOUNTERED, OR OF ANY OTHER RELEVANT MATTER CONCERNING THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS GOVERNING THE WORK.

1.3 CLEANING
KEEP THE SITE FREE FROM ACCUMULATION OF WASTE AND RUBBISH CAUSED BY EMPLOYEES AT THE COMPLETION OF THE WORK. REMOVE ALL WASTE AND NON-CONSTRUCTION MATERIAL INCLUDING ALL CONTRACTOR TOOLS, SCAFFOLDING AND SURPLUS MATERIAL AND LEAVE SITE CLEAN AND READY FOR USE.

1.4 CODES
CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL LAWS, REGULATIONS AND RULES PROMULGATED BY FEDERAL STATE AND LOCAL AUTHORITIES WITH JURISDICTION OVER THE SITE. THIS RESPONSIBILITY IS IN EFFECT REGARDLESS OF WHETHER THE LAW, ORDINANCE, REGULATION OR RULE IS MENTIONED IN THESE SPECIFICATIONS.

1.5 LICENSING
HAVE AND MAINTAIN A VALID CONTRACTORS LICENSE FOR THE LOCATION IN WHICH THE WORK IS TO BE PERFORMED. FOR THAT LICENSE INDIVIDUAL TRADES, THE TRADESMAN OR SUBCONTRACTORS PERFORMING THOSE TRADES SHALL BE LICENSED. RESEARCH AND COMPLY WITH LICENSING LAWS, PAY LICENSE FEES, AND SELECT AND INFORM SUBCONTRACTORS REGARDING THESE LAWS.

1.6 OSHA
FOLLOW ALL APPLICABLE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS, AND STATE LAWS BASED IN THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT. THESE REGULATIONS INCLUDE BUT ARE NOT LIMITED TO REGULATIONS DEALING WITH TOWER CONSTRUCTION AND SAFETY, EXCAVATIONS AND TRENCHING, AND WORK IN CONFINED SPACES. ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT All TIMES DURING CONSTRUCTION.

1.7 PHOTOS
PROVIDE PHOTOGRAPHIC EVIDENCE OF ALL FOUNDATION INSTALLATION, GROUNDING AND TRENCHING AFTER PLACEMENT OF UTILITIES PRIOR TO BACKFILL.

1.8 BUILDING PERMITS
SPRINT WIRELESS WILL SUBMIT CONSTRUCTION DOCUMENTS TO THE JURISDICTIONAL AUTHORITY FOR PLAN CHECK AND REVIEW. CONTRACTOR WILL SUBMIT LICENSING AND WORKMAN'S COMPENSATION INFORMATION TO THE JURISDICTION AS REQUIRED TO OBTAIN THE BUILDING PERMIT. CONTRACTOR SHALL COORDINATE AND SCHEDULE REQUIRED INSPECTIONS AND POST REQUIRED PERMITS AT THE JOB SITE. COMPLY WITH SPECIFIC PROJECT-RELATED REQUESTS AND SUGGESTIONS MADE BY BUILDING INSPECTOR AND INFORM CONSTRUCTION MANAGER OF ANY SUCH WORK THAT MAY BE BEYOND THE SCOPE OF THE CONTRACT OR DEVIATE FROM THE CONSTRUCTION DOCUMENTS. SPRINT WIRELESS WILL REIMBURSE THE CONTRACTOR FOR FEES FOR PLAN REVIEW, BUILDING PERMIT, CONNECTIONS AND INSPECTION.

1.9 ZONING REGULATIONS AND CONDITIONAL USE PERMITS
SPRINT WIRELESS WILL SUBMIT FOR AND OBTAIN ALL ZONING AND CONDITIONAL USE PERMITS. SOME USE PERMITS MAY HAVE SPECIFIC REQUIREMENTS RELATED TO THE CONSTRUCTION SUCH AS NOISE REGULATIONS, HOURS OF WORK, ACCESS LIMITATIONS, ETC. THE CONSTRUCTION MANAGER WILL INFORM THE CONTRACTOR OF THESE REQUIREMENTS AT THE PRE-BID MEETING OR AS SHOWN IN CONSTRUCTION DOCUMENTS.

1.10 FM PERMIT AND TOWER LIGHTING
REFER TO CONSTRUCTION DOCUMENTS AND CONSTRUCTION MANAGER FOR FAA AND STATE LIGHTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE TEMPORARY FM APPROVED LIGHTING UNTIL PERMANENT LIGHTING IS OPERATIONAL

1.11 TOWER SECURITY
TOWER MUST BE FENCED, TEMPORARILY OR PERMANENTLY WITHIN 24 HOURS OF ERECTION. DO NOT ALLOW THE GATE ACCESSING THE TOWER AREA TO REMAIN OPEN OR UNATTENDED AT ANY TIME FOR ANY REASON. KEEP THE GATE CLOSED AND LOCKED WHEN NOT IN USE.

1.12 SITE CONTROL
A. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENT AND CONTROL OF EROSION AT THE SITE. ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO SPRINT WIRELESS.

B. THE CONTRACTOR IS TO MAINTAIN ADEQUATE ROOF DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND ON ANY PORTION OF THE ROOF. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF ROOF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE.

C. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY THE CONSTRUCTION MANAGER AND IN ACCORDANCE WITH JURISDICTIONAL AUTHORITIES.

2.0 SITE PREPARATION

2.1 SCOPE OF WORK INCLUDES:
A. PROTECTION OF EXISTING TREES, VEGETATION AND LANDSCAPING MATERIALS WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
B. TRIMMING OF EXISTING TREES AND VEGETATION AS REQUIRED FOR PROTECTION DURING CONSTRUCTION ACTIVITIES.
C. CLEARING AND GRUBBING OF STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES, AND SITE IMPROVEMENTS.
D. TOPSOIL STRIPPING AND STOCKPILING.
E. TEMPORARY EROSION CONTROL, SILTATION CONTROL AND DUST CONTROL CONFORMING TO LOCAL REQUIREMENTS AS APPLICABLE.
F. TEMPORARY PROTECTION OF ADJACENT PROPERTY, STRUCTURES, BENCHMARKS AND MONUMENTS.
G. PROTECTION AND TEMPORARY RELOCATION, STORAGE AND RE-INSTALLATION OF EXISTING FENCING AND OTHER SITE IMPROVEMENTS SCHEDULED FOR REUSE.
H. REMOVAL AND LEGAL DISPOSAL OF CLEARED MATERIALS.

2.2 PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS NOTED IN CONSTRUCTION DOCUMENTS.)
A. MATERIALS USED FOR TREE PROTECTION, EROSION CONTROL, SILTATION CONTROL AND DUST CONTROL AS SUITABLE FOR SPECIFIC SITE CONDITIONS.

3.0 COMPACTION

A. COMPACT BACKFILL TO A 95 PERCENT COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 OR WITHIN PLUS OR MINUS 3 PERCENT OF OPTIMUM MOISTURE CONTENT.
B. IF REQUIRED COMPACTION DENSITY HAS NOT BEEN OBTAINED, REMOVE THE BACKFILL FROM THE TRENCH OR STRUCTURE, REPLACE WITH APPROVED BACKFILL AND RECOMPACT AS SPECIFIED.
C. ANY SUBSEQUENT SETTLEMENT OF TRENCH OR STRUCTURE BACKFILL DURING MAINTENANCE PERIOD SHALL BE CONSIDERED THE RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY CORRECTED.

4.0 CHAIN LINK FENCES AND GATES

4.1 GENERAL

A. PROVIDE CHAIN LINK FENCES AND GATES AS COMPLETE UNITS BY A SINGLE SUPPLY SOURCE INCLUDING NECESSARY ERECTION ACCESSORIES, FITTINGS AND FASTENERS.

4.2 PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS WITHIN CONSTRUCTION DOCUMENTS)

A. COMPOUND FABRIC 84 INCHES HIGH AND OVER WITH 2-INCH MESH SHALL BE KNUCKLED AT ONE SELVAGE AND TWISTED AT THE OTHER.
B. STEEL FABRIC:
COMPLY WITH CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) PRODUCT MANUAL. FURNISH ONE PIECE OF FABRIC WIDTHS. WIRE SIZE INCLUDES ZINC OR ALUMINUM COATING.
1. SIZE: 2-INCH MESH 9 GAUGE (0.148-INCH DIAMETER) WIRE.
2. GALVANIZED STEEL FINISH: ASTM A 392. CLASS 2. WITH A MINIMUM 2.0 OZ. ZINC PER SQ. FT. OF UNCOATED WIRE SURFACE.
C. FRAMEWORK AND ACCESSORIES:
1. GENERAL REQUIREMENTS: EXCEPT AS INDICATED OTHERWISE CONFORM TO THE CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) PRODUCT MANUAL INDUSTRIAL STEEL GUIDE FOR FENCE RAILS, POSTS, GATES AND ACCESSORIES INCLUDING TABLE II.
2. STRENGTH REQUIREMENTS FOR POSTS AND RAILS CONFORMING TO ASTM F 1043.
3. TYPE 1 PIPE HOT-DIPPED GALVANIZED STEEL PIPE CONFORMING TO ASTM F 1083. PLANE ENDS, STANDARD WEIGHT (SCHEDULE 40) WITH NOT LESS THAN 18 OZ. ZINC PER SQ. FT. OF SURFACE AREA COATED.
4. FILLINGS: COMPLY WITH ASTM F 528 MILL FINISHED ALUMINUM OR GALVANIZED IRON STEEL TO COMPLY WITH MANUFACTURER'S REQUIREMENTS.
5. TOP RAIL MANUFACTURERS LONGEST LENGTHS, WITH EXPANSION TYPE COUPLINGS, APPROXIMATELY 6 INCHES LONG, FOR EACH JOINT. PROVIDE MEANS FOR ATTACHING TOP RAIL SECURELY TO EACH GATE CORNER, PULL AND END POST.
D. GALVANIZED STEEL 11/4 INCH NPS (1.66 INCH OD) TYPE I OR II STEEL PIPE OR 1.625 INCH x 1.25 INCH ROLL-FORMED C SECTIONS WEIGHING 1.35 LBS. PER FT.
E. SWING GATES:
COMPLY WITH ASTM F 900. PROVIDE HARDWARE AND ACCESSORIES FOR EACH GATE. GALVANIZED PER ASTM A 153, AND IN ACCORDANCE WITH THE FOLLOWING:
1. HINGES: NON LIFT- OFF TYPE, OFFSET TO PERMIT 180 DEG. GATE OPENING.
2. LATCH: MTS MULTI-LOCKING DEVICE MT-C8477 OR APPROVED EQUAL.
3. KEEPER: PROVIDE KEEPER FOR VEHICLE GATES, WHICH AUTOMATICALLY ENGAGES GATE LEAF AND HOLDS IT IN OPEN POSITION UNTIL MANUALLY RELEASED.
F. CONCRETE:
PROVIDE CONCRETE CONSISTING OF PORTLAND CEMENT, ASTM C 150, AGGREGATES ASTMC 33, AND CLEAN WATER. MIX MATERIALS TO OBTAIN CONCRETE WITH A MINIMUM OF 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.

5.0 LANDSCAPING

A. FURNISH, INSTALL AND MAINTAIN LANDSCAPE WORK AS SHOWN AND OR REQUIRED WITHIN THE CONSTRUCTION DOCUMENTS OR AS SPECIFIED IN THE SPRINT WIRELESS CONSTRUCTION SPECIFICATIONS.

6.0 CONCRETE FORMWORK

A. FORMS: SMOOTH AND FREE OF SURFACE IRREGULARITIES. UTILIZE FORM RELEASE AGENTS.
B. CHAMFER: EXPOSED EDGES OF ALL TOWER FOUNDATIONS SHALL RECEIVE A 3/4" BY 3/4" 45 DEGREE CHAMFER. OTHER EXPOSED EDGES SHALL RECEIVE A TOOLED RADIUS FINISH.
C. UPON COMPLETION, REMOVE ALL FORMS, INCLUDING THOSE CONCEALED OR BURIED.
D. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

7.0 CONCRETE REINFORCEMENT
REFER TO STRUCTURAL DRAWINGS FOR ALL REQUIREMENTS.

8.0 CAST IN PLACE CONCRETE

FOR STRUCTURAL CONCRETE (FOOTINGS, FOUNDATIONS, ETC.), REFER TO STRUCTURAL DRAWINGS FOR REQUIREMENTS. FOR ANY MISCELLANEOUS CONCRETE, REFER TO SPECIFICATION BOOK OR OBTAIN REQUIREMENTS FROM CONSTRUCTION MANAGER.
A. ALL CONCRETE SHALL COMPLY WITH ASTM C94 UNLESS NOTED OTHERWISE.
B. MINIMUM COMPRESSIVE STRENGTH (F'C) AT 28 DAYS: 4000 PSI FOR TOWER FOUNDATION AND 3500 PSI FOR ALL OTHER CONCRETE UNLESS SPECIFIED IN CONSTRUCTION DOCUMENTS.
C. AIR ENTRAINMENT: PROVIDE 4 TO 8% AIR ENTRAINMENT FOR ALL CONCRETE SUBJECT TO FREEZE-THAW CYCLE.
D. CONCRETE TESTING: ALL FOUNDATION CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY APPROVED BY THE CONSTRUCTION MANAGER. ALL STRUCTURAL TOWER FOUNDATION CONCRETE MUST BE TESTED. EQUIPMENT OR BUILDING PADS ARE NOT REQUIRED TO BE TESTED, UNLESS OTHERWISE NOTED BY CONSTRUCTION MANAGER. PROVIDE A MINIMUM OF 5 CYLINDERS (2-7-DAY, 2-28-DAY, 1- SPARE) FOR EACH DAYS POUR, OR FOR EVERY 50 YARDS PLACED, WHICHEVER IS GREATER. ADDITIONAL TESTS OR CYLINDERS MAY BE REQUIRED BY CONSTRUCTION MANAGER. A SLUMP, AIR, AND TEMPERATURE TEST SHALL BE PERFORMED FOR EACH SET OF CYLINDERS CAST. PREFERABLY, TESTS SHALL BE PERFORMED AT THE LOCATION OF ANCHOR BOLTS (PIERS - FOR MAT & PIERS, CAISSONS - TOP1/3 OF CAISSON). TESTS SHALL ALSO BE REQUIRED FOR CONCRETE CONSIDERED BEING LESS THAN DESIRABLE BY CONCRETE SPECIFICATION STANDARDS. THE TESTING AGENCY HAS THE AUTHORITY TO NOT ACCEPT CONCRETE MEETING THESE SPECIFICATIONS FOR SPRINT WIRELESS. THE CONTRACTOR IS RESPONSIBLE FOR ANY CONCRETE NOT MEETING THESE STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE TESTING AGENCY A MINIMUM OF 24 HOURS IN ADVANCE OF EACH FOUNDATION POUR. TEST REPORTS SHALL BE FORWARDED TO SPRINT CONSTRUCTION MANAGER WITHIN 24 HOURS OF LAB TEST.
E. VIBRATE ALL CONCRETE USING SUFFICIENT HIGH FREQUENCY LOW AMPLITUDE MECHANICAL IMMERSION TYPE VIBRATORS. INSERT VIBRATORS IN CONCRETE AT REGULAR INTERVALS AND OVER ENTIRE SURFACE TO SOLIDLY FILL CONCRETE MECHANICAL IMMERSION TYPE VIBRATORS. INSERT VIBRATORS IN CONCRETE AT REGULAR INTERVALS AND OVER ENTIRE SURFACE TO SOLIDLY FILL CONCRETE AROUND AND BETWEEN REINFORCEMENT BARS AND INTO CORNERS AND IRREGULARITIES. VIBRATE THOROUGHLY THROUGH EACH LIFT TO THE PREVIOUS LIFE REVERBERATION AS LATE AS THE RUNNING VIBRATOR WILL SINK THROUGH UPPER LAYERS OF ITS WEIGHT IS RECOMMENDED. DISCONTINUE VIBRATION WHEN RISING ENTRAPPED AIR BUBBLES STOP BREAKING THE LEVELING SURFACE. DO NOT OVER VIBRATE AS THIS MAY CAUSE SEGREGATION.
F. FINISHING EXPOSED CONCRETE SURFACES:
1. THESE PROVISIONS APPLY TO ALL EXPOSED AND ALL FORMED CONCRETE, EXTERIOR OR INTERIOR. UNLESS SPECIFICALLY DETAILED OTHERWISE, PERFORM PROCEDURES PRIOR TO APPLICATION OF ANY CURING COMPOUNDS.
2. ALL SURFACES: THOROUGHLY CLEAN OFF ALL STAINS, SPATTER AND LOOSE MATERIAL.
3. FINS, RIDGES AND HIGH SPOTS: HONE SMOOTH WITH ABRASIVE POWER GRINDERS WHILE CONCRETE IS GREEN, IMMEDIATELY AFTER FORM REMOVAL.
4. FORM TIE HOLES AND DEEP DEPRESSIONS: FLUSH THOROUGHLY WITH CLEAN WATER AND TAMP TO OVERFULL WITH DRYPACK. CURE 10 DAYS AND HONE FLUSH AND SMOOTH.

5. ROCK POCKETS, HONEYCOMB, SAND STREAKS, DEBRIS AND VOIDS: CUT OUT AT LEAST 1 INCH DEEP WITH SIDES PERPENDICULAR TO SURFACE. FLUSH THOROUGHLY WITH CLEAN WATER, COAT SURFACE WITH NEAT CEMENT PASTE AND TAMP TO OVERFULL WITH DRYPACK IN AT LEAST TWO LAYERS. CURE FOR 10 DAYS AND HONE FLUSHED AND SMOOTH.

G. CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF ALL ELECTRICAL OPENINGS AND EQUIPMENT/BUILDING PADS WITH THE ELECTRICAL DRAWINGS AND SHOP DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITIES. CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON STRUCTURAL DRAWINGS. PRIOR TO POURING CONCRETE THE INDEPENDENT TESTING AGENCY SHALL INSPECT ALL FOUNDATION STEEL AND FOUNDATION SUBGRADE.

9.0 STRUCTURAL STEEL

MEET OR EXCEED MANUFACTURER'S RECOMMENDATIONS.

A. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).
B. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL, CONFORMING TO ASTM A-615, GRADE 60, DEFORMED.
C. HEATING AND WELDING OF BARS IS PROHIBITED WITH THE EXCEPTION OF WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER.
D. ALL REINFORCEMENT BARS TO BE FREE FROM LOOSE RUST AND SCALE.
E. UNLESS OTHERWISE NOTED, ALL REINFORCEMENT SHALL HAVE A MINIMUM CONCRETE COVERAGE OF 3 INCHES. THIS MAY REQUIRE SPACERS AND CHAIRS AS REQUIRED BY TESTING AGENCY OR CONSTRUCTION MANAGER.
F. SPLICES IN REINFORCEMENT STEEL ARE PROHIBITED, UNLESS APPROVED BY CONSTRUCTION MANAGER. ALL SPLICES MUST THEN MEET ALL APPLICABLE ASTM STANDARDS FOR SPLICING.

10.0 GROUNDING

MEET ALL APPLICABLE CODES, REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND SPRINT WIRELESS CONSTRUCTION SPECIFICATIONS.

GENERATOR SPECIFICATIONS
1. SWITCHES AND STANDARD FEATURES
A. CYCLIC CRANKING
B. ALARM HORN WITH SILENCING SWITCH
C. VOLTAGE ADJUSTING RHEOSTAT
D. OVERVOLTAGE PROTECTION
E. REMOTE TWO-WIRE AUTO START SYSTEM
F. LAMP TEST SWITCH
G. RUN-OFF-RESET/AUTO SWITCH (ENGINE START)
H. ENGINE COOL DOWN TIMER (5 MINUTES)
2. ERROR-PROOF WIRING HARNESS FOR ELECTRICAL CONNECTIONS
3. PANEL LAMPS
4. DC CIRCUIT PROTECTION

UNIT ACCESSORIES
1. WEATHER HOUSING-STANDARD WITH ROOF MOUNTED SILENCER
2. MOUNTED CRITICAL GRADE EXHAUST SILENCER
3. TAIL PIPE AND RAIN CAP

COOLING SYSTEM ACCESSORIES
1. UNIT MOUNTED RADIATOR
2. ENGINE BLOCK HEATER

FUEL SYSTEM ACCESSORIES
1. FLEXIBLE FUEL LINES
2. ENGINE BLOCK HEATER
3. SUBBASE FUEL TANK-172 GALLONS
4. DOUBLE WALL CONSTRUCTION WITH LEAK DETECTION MONITOR
5. U.L. 142 LISTED
6. FUEL LEVEL GAUGE
7. LOW FUEL LEVEL ALARM
8. FILL PIPE EXTENDED 10% INTO TANK
9. HIGH-FUEL LEVEL ALARM-SET AT 95%
10. 7.5 GALLON LOCKABLE FILL WITH SPILL CONTAINMENT

GENERATOR ACCESSORIES
1. MAIN LINE CIRCUIT BREAKER-100 AMPS, INSTALLED ON GENERATOR
2. VOLTAGE REGULATOR ±2%
3. SAFEGUARD BREAKER

ENGINE ELECTRICAL ACCESSORIES
1. ELECTRONIC/ISOCHRONOUS GOVERNOR
2. BATTERY RACK, CABLES AND STARTING BATTERY SYSTEM-LEAD ACID TYPE
3. BATTERY CHARGER-AUTOMATIC 6 AMP OUTPUT

Sprint

Alcatel-Lucent

SAC WIRELESS ENGINEERING GROUP

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO
LA03XC201
30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

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LICENSURE:

SHEET TITLE:
SPECIFICATIONS & ABBREVIATIONS

SHEET NUMBER: T-3
REVISION: F

BATTERY INFORMATION /NOTES:

BATTERY MFG.:	EAST PENN MANUFACTURING
MODEL No.:	12AVR-145L
ELECTROLYTE CONTENT PER BATTERY:	2.17 GALLONS
ELECTROLYTE HAZARD CLASSIFICATION PER '07 C.F.C. (8.7% SULFURIC ACID):	CORROSIVE
No. OF BATTERIES TO BE INSTALLED:	20 MAX. (20 PER CABINET)
TOTAL ELECTROLYTE CONTAINED ON SITE (2.17 x 20 = 43.40):	43.4 GALLONS MAX.

A. QUANTITIES OF 500 GAL. OR LESS ARE EXEMPT PER TABLE 3-E OF THE 1997 U.B.C.

B. SINGLE VESSEL CAPACITIES OF 20 GAL. OR LESS, AND AGGREGATE QUANTITIES NOT IN EXCESS OF 100 GAL. ARE EXEMPT PER ARTICLE 64 OF THE 2007 C.F.C.

C. QUANTITIES LESS THAN 50 GAL. ARE EXEMPT FROM C.F.C. ARTICLE 80, AND SHALL NOT REQUIRE PERMIT.

D. ANY CHANGES OR ADDITIONS TO BACK-UP BATTERIES MUST COMPLY WITH 2007 C.F.C. ARTICLE 64, AND SHALL NOT CONTAIN ELECTROLYTE QUANTITIES IN EXCESS OF 50

GENERATOR ACCESSORIES

1. MAIN LINE CIRCUIT BREAKER-100 AMPS, INSTALLED ON GENERATOR
2. VOLTAGE REGULATOR ±2%
3. SAFEGUARD BREAKER

ENGINE ELECTRICAL ACCESSORIES

1. ELECTRONIC/ISOCHRONOUS GOVERNOR
2. BATTERY RACK, CABLES AND STARTING BATTERY SYSTEM-LEAD ACID TYPE
3. BATTERY CHARGER-AUTOMATIC 6 AMP OUTPUT

FIRE DEPARTMENT NOTES:

A. FIRE DEPARTMENT FINAL INSPECTION REQUIRED. SCHEDULE INSPECTION 2 DAYS IN ADVANCE.

B. A CFC PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES IS NOT REQUIRED FO THE QUANTITIES ON SITE.

C. A CFC PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE.

D. A HAZARDOUS MATERIALS IDENTIFICATION SIGN IS REQUIRED FOR ALL ENTRANCES INTO BATTERY STORAGE AREAS. LETTERS MUST BE AT LEAST 1" IN HEIGHT AND IN A COLOR WHICH CONTRASTS TO THE BACKGROUND OF THE SIGN AND LIST THE FOLLOWING:

CLASS 1 WATER REACTIVE LIQUID
TOXIC LIQUID
CORROSIVE LIQUID
OTHER HEALTH HAZARD LIQUID

E. AN APPROVED METHOD TO NEUTRALIZE SPILLED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM.

F. BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.

G. LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE UNIFORM FIRE CODE STANDARD 10-1 AND PLACEMENT IS SUBJECT TO APPROVAL OF THE FIRE INSPECTOR.

H. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.

I. EXIST DOORS SHALL BE ABLE TO OPEN FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

J. ADDRESS NUMBERS SHALL BE A MINIMUM 6 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING IS ADDRESSED ON.

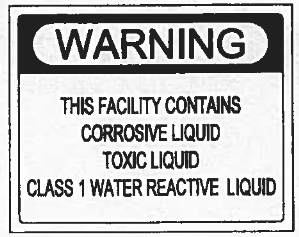
K. REQUIRED SIGNAGE SHALL INCLUDE LETTERING HEIGHT OF AT LEAST ONE INCH, IN A COLOR THAT CONTRASTS TO THE SIGN BACKGROUND, AND SHALL BE PROMINENTLY DISPLAYED.

L. REQUIRED SIGNAGE SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, APPLICABLE TYPES FROM EXAMPLES SHOWN HEREIN (SEE SIGNAGE).

BATTERY INFO & FIRE DEPT NOTES | 4

ABBREVIATION	DEFENITION	ABBREVIATION	DEFENITION	ABBREVIATION	DEFENITION
A.B.	ANCHOR BOLT	FAB.	FABRICATION(OR)	PWR.	POWER (CABINET)
ABV.	ABOVE	F.F.	FINISH FLOOR	QTY.	QUANTITY
ACCA	ANTENNA CABLE COVER ASSEMBLY	F.G.	FINISH GRADE	RAD.(R)	RADIUS
ADD'L	ADDITIONAL	FIN.	FINISH(ED)	REF.	REFERENCE
A.F.F.	ABOVE FINISHED FLOOR	FLR.	FLOOR	REINF.	REINFORCEMENT(ING)
A.F.G.	ABOVE FINISHED GRADE	FDN.	FOUNDATION	REQ'D.	REQUIRED
ALUM.	ALUMINUM	F.O.C.	FACE OF CONCRETE	RGS.	RIGID GALVANIZED STEEL
ALT.	ALTERNATE	F.O.M.	FACE OF MASONRY	RRU.	RADIO REMOTE UNIT
ANT.	ANTENNA	F.O.S.	FACE OF STUD	SCH.	SCHEDULE
APPRX.	APPROXIMATE(LY)	F.O.W.	FACE OF WALL	SHT.	SHEET
ARCH.	ARCHITECT(URAL)	F.S.	FINISH SURFACE	SIM.	SIMILAR
AWG.	AMERICAN WIRE GAUGE	FT.(')	FOOT(FEET)	SPEC.	SPECIFICATION(S)
BLDG.	BUILDING	FTG.	FOOTING	SQ.	SQUARE
BLK.	BLOCK	G.	GROWTH (CABINET)	S.S.	STAINLESS STEEL
BLKG.	BLOCKING	GA.	GAUGE	STD.	STANDARD
BM.	BEAM	GI.	GALVANIZE(D)	STL.	STEEL
B.N.	BOUNDARY NAILING	G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER	STRUC.	STRUCTURAL
BTCW.	BARE TINNED COPPER WIRE	GLB.(GLU-LAM)	GLUE LAMINATED BEAM	TEMP.	TEMPORARY
B.O.F.	BOTTOM OF FOOTING	GPS	GLOBAL POSITIONING SYSTEM	THK.	THICK(NESS)
B/U	BACK-UP CABINET	GRND.	GROUND	TMA	TOWER MOUNTED AMPLIFIER
CAB.	CABINET	HDR.	HEADER	T.N.	TOE NAIL
CANT.	CANTILEVER(ED)	HGR.	HANGER	T.O.A.	TOP OF ANTENNA
C.I.P.	CAST IN PLACE	HT.	HEIGHT	T.O.C.	TOP OF CURB
CLG.	CEILING	ICGB.	ISOLATED COPPER GROUND BUS	T.O.F.	TOP OF FOUNDATION
CLR.	CLEAR	IN.(")	INCH(ES)	T.O.P.	TOP OF PLATE (PARAPET)
COL.	COLUMN	INT.	INTERIOR	T.O.S.	TOP OF STEEL
CONC.	CONCRETE	LB.(#)	POUND(S)	T.O.W.	TOP OF WALL
CONN.	CONNECTION(OR)	L.B.	LAG BOLTS	TYP.	TYPICAL
CONST.	CONSTRUCTION	L.F.	LINEAR FEET (FOOT)	U.G.	UNDER GROUND
CONT.	CONTINUOUS	L.	LONG(ITUDINAL)	U.L.	UNDERWRITERS LABORATORY
d	PENNY (NAILS)	MAS.	MASONRY	U.N.O.	UNLESS NOTED OTHERWISE
DBL.	DOUBLE	MAX.	MAXIMUM	V.I.F.	VERIFY IN FIELD
DEPT.	DEPARTMENT	M.B.	MACHINE BOLT	W	WIDE(WIDTH)
D.F.	DOUGLAS FIR	MECH.	MECHANICAL	W/	WITH
DIA.	DIAMETER	MFR.	MANUFACTURER	WD.	WOOD
DIAG.	DIAGONAL	MIN.	MINIMUM	W.P.	WEATHERPROOF
DIM.	DIMENSION	MISC.	MISCELLANEOUS	WT.	WEIGHT
DWG.	DRAWING(S)	MTL.	METAL	℄	CENTERLINE
DWL.	DOWEL(S)	(N)	NEW	⅊	PLATE
EA.	EACH	NO.(#)	NUMBER		
EL.	ELEVATION	N.T.S.	NOT TO SCALE		
ELEC.	ELECTRICAL	O.C.	ON CENTER		
ELEV.	ELEVATOR	OPNG.	OPENING		
EMT.	ELECTRICAL METALLIC TUBING	P/C	PRECAST CONCRETE		
E.N.	EDGE NAIL	PCS	PERSONAL COMMUNICATION SERVICES		
ENG.	ENGINEER	PLY.	PLYWOOD		
EQ.	EQUAL	PPC	POWER PROTECTION CABINET		
EXP.	EXPANSION	PRC	PRIMARY RADIO CABINET		
EXST.(E)	EXISTING	P.S.F.	POUNDS PER SQUARE FOOT		
EXT.	EXTERIOR	P.S.I.	POUNDS PER SQUARE INCH		
		P.T.	PRESSURE TREATED		

ABBREVIATIONS | 5



HAZARDOUS MATERIAL SIGNAGE | 3

REQUIRED NFPA SIGNAGE

IN CASE OF EMERGENCY
CALL
1-866-400-6040
SITE NUMBER: LA03XC201
SITE NAME: LINDERO

EMERGENCY CONTACT SIGNAGE

SITE IDENTIFICATION SIGNAGE | 2

RF SIGNAGE | 1

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Alcatel-Lucent

SAC WIRELESS ENGINEERING GROUP

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
LINDERO
LA03XC201
30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

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REVISIONS

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LICENSURE:

SHEET TITLE: SIGNAGE AND NOTES

SHEET NUMBER: T-4

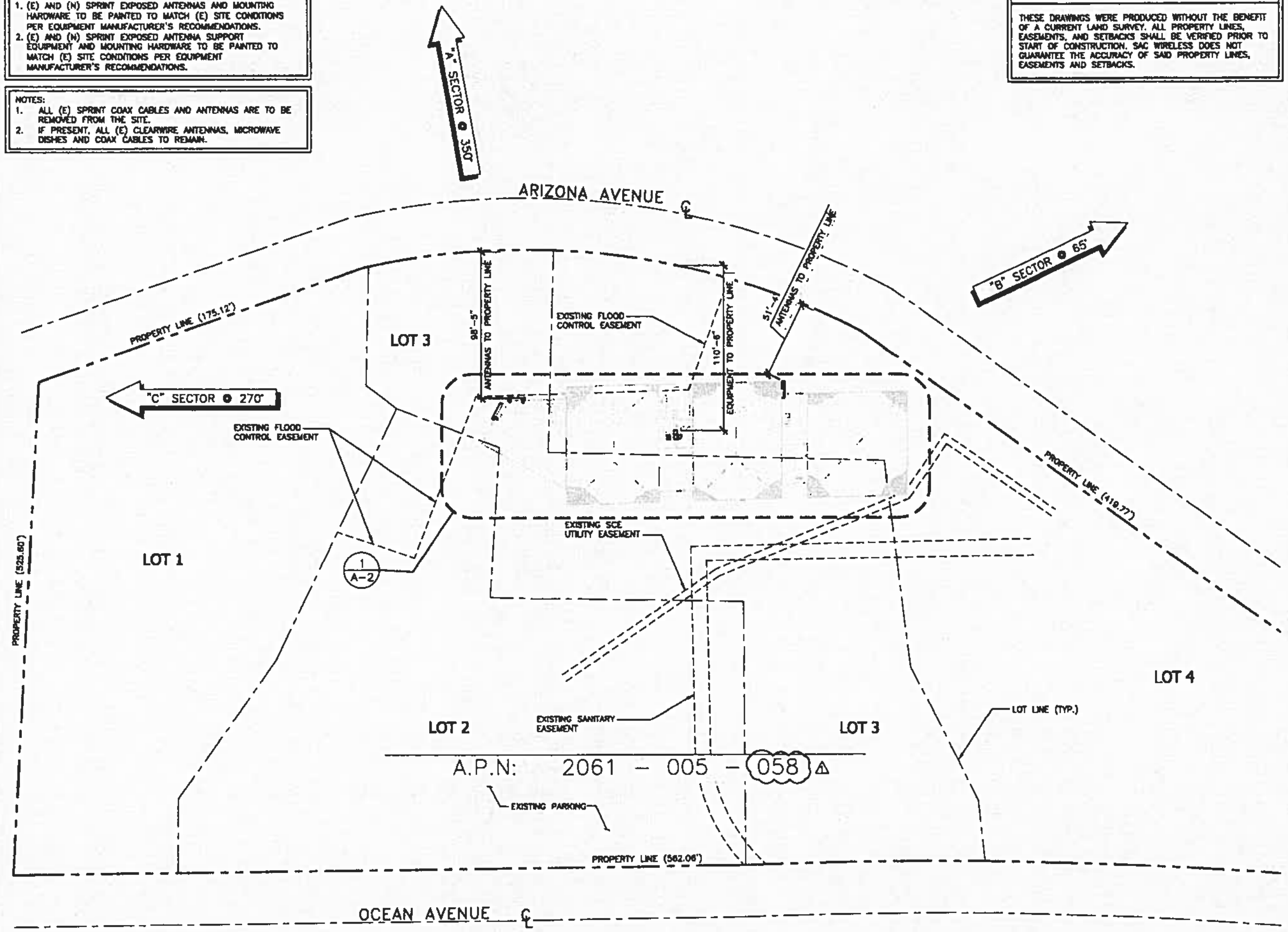
REVISION: F

PAINT NOTES:
1. (E) AND (N) SPRINT EXPOSED ANTENNAS AND MOUNTING HARDWARE TO BE PAINTED TO MATCH (E) SITE CONDITIONS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
2. (E) AND (N) SPRINT EXPOSED ANTENNA SUPPORT EQUIPMENT AND MOUNTING HARDWARE TO BE PAINTED TO MATCH (E) SITE CONDITIONS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

NOTES:
1. ALL (E) SPRINT COAX CABLES AND ANTENNAS ARE TO BE REMOVED FROM THE SITE.
2. IF PRESENT, ALL (E) CLEARWIRE ANTENNAS, MICROWAVE DISHES AND COAX CABLES TO REMAIN.

DISCLAIMER

THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. SAC WIRELESS DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS AND SETBACKS.



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY CENTERLINE
- RIGHT-OF-WAY LINE
- ADJACENT BOUNDARY LINE
- SECTIONAL BREAKDOWN LINE
- (N) FIBER LINE
- (N) POWER/FIBER LINE
- OVERHEAD POWER LINE
- BURIED POWER LINE
- BURIED GAS LINE
- OVERHEAD TELEPHONE LINE
- BURIED TELEPHONE LINE
- BURIED WATER LINE
- BURIED SANITARY SEWER
- BURIED STORM DRAIN
- DITCH LINE/FLOW LINE
- VEGETATION LINE
- CHAIN LINK FENCE
- WOOD FENCE
- BARBED WIRE/WIRE FENCE
- TRANSFORMER
- LIGHT STANDARD
- POWER VAULT
- UTILITY BOX
- UTILITY POLE
- POLE GUY WIRE
- GAS VALVE
- GAS METER
- TELEPHONE VAULT
- TELEPHONE RISER
- FIRE HYDRANT
- GATE VALVE
- WATER METER
- FIRE STAND PIPE
- CATCH BASIN, TYPE I
- CATCH BASIN, TYPE II
- SIGN
- BOLLARD
- MAIL BOX
- 234.21 SPOT ELEVATION

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Alcatel-Lucent

SAC WIRELESS ENGINEERING GROUP

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

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F	12/07/12	DE-SCOPE	CM

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LICENSURE:

SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER: A-1

REVISION: F

NORTH

OVERALL SITE PLAN

SCALE: 1" = 40'-0" (24x36)
(OR) 1/2" = 40'-0" (11x17)

1

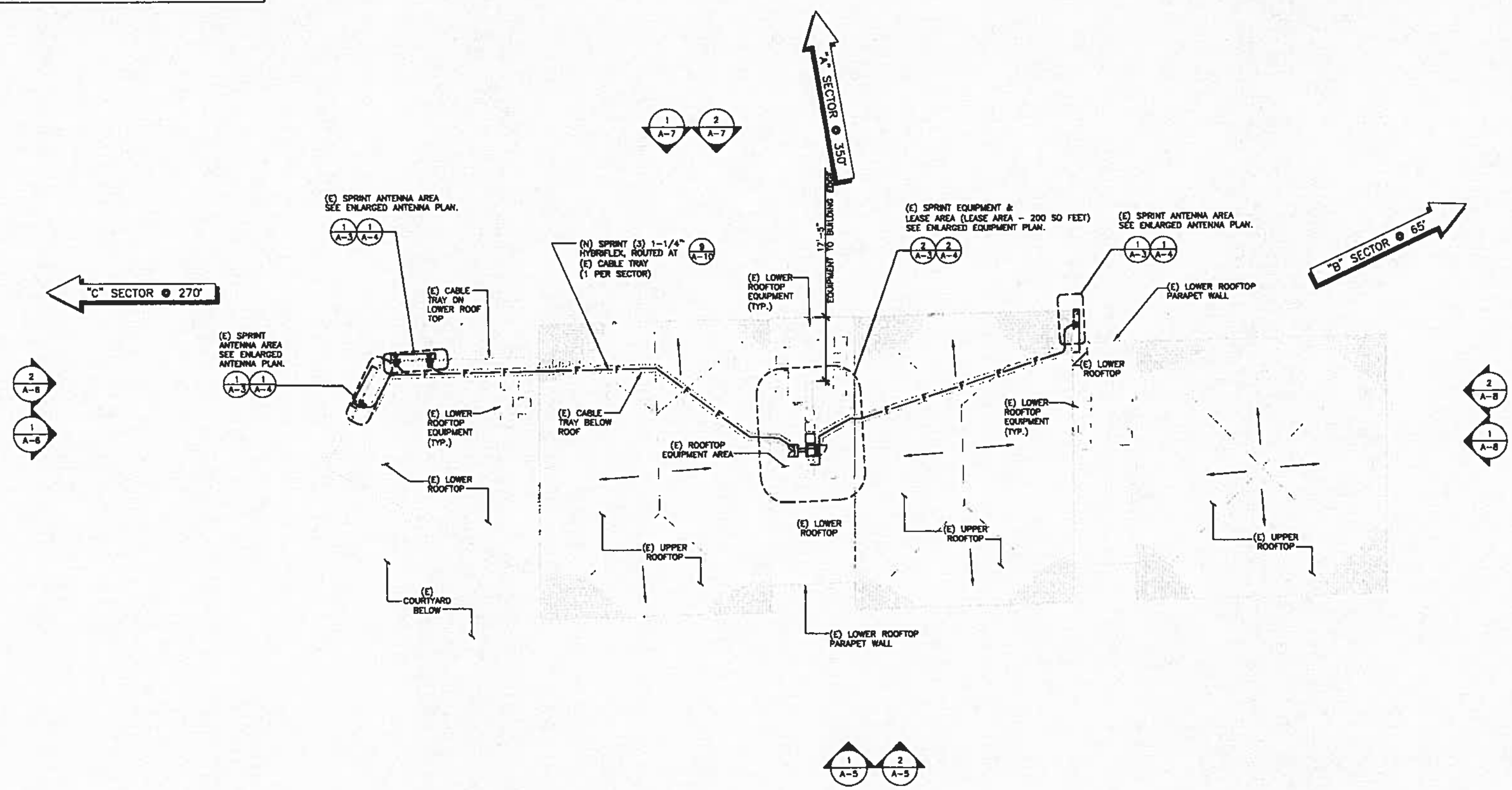
PAINT NOTES:
1. (E) AND (N) SPRINT EXPOSED ANTENNAS AND MOUNTING HARDWARE TO BE PAINTED TO MATCH (E) SITE CONDITIONS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
2. (E) AND (N) SPRINT EXPOSED ANTENNA SUPPORT EQUIPMENT AND MOUNTING HARDWARE TO BE PAINTED TO MATCH (E) SITE CONDITIONS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

NOTES:
1. ALL (E) SPRINT COAX CABLES AND ANTENNAS ARE TO BE REMOVED FROM THE SITE.
2. IF PRESENT, ALL (E) CLEARWIRE ANTENNAS, MICROWAVE DISHES AND COAX CABLES TO REMAIN.

NOTE:

SPRINT PROPOSES TO MODIFY AN (E) UNMANNED TELECOMMUNICATIONS FACILITY

- REMOVE (6) (E) PANEL ANTENNAS
- INSTALL (4) (N) PANEL ANTENNAS
- INSTALL (8) (N) RRH UNITS
- REMOVE ALL (E) ANTENNA COAX
- INSTALL (3) (N) HYBRIFLEX CABLES USING (E) COAX ROUTE
- REMOVE (1) (E) MODCELL COMPACT 4.0 CABINET
- INSTALL (1) (N) MODCELL (9928) CABINET
- REMOVE (1) (E) POWER CABINET (60C)
- REMOVE (1) (E) BATTERY BACKUP UNIT CABINET (60C)
- INSTALL (1) (N) BATTERY BACK UP CABINET (60ECV2)
- INSTALL (1) (N) JUNCTION BOX



ROOFTOP PLAN

SCALE: 1/16" = 1'-0" (24x36) (OR) 1/32" = 1'-0" (11x17)

1

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SAC WIRELESS ENGINEERING GROUP

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LINDERO

LA03XC201

30125 AGOURA ROAD
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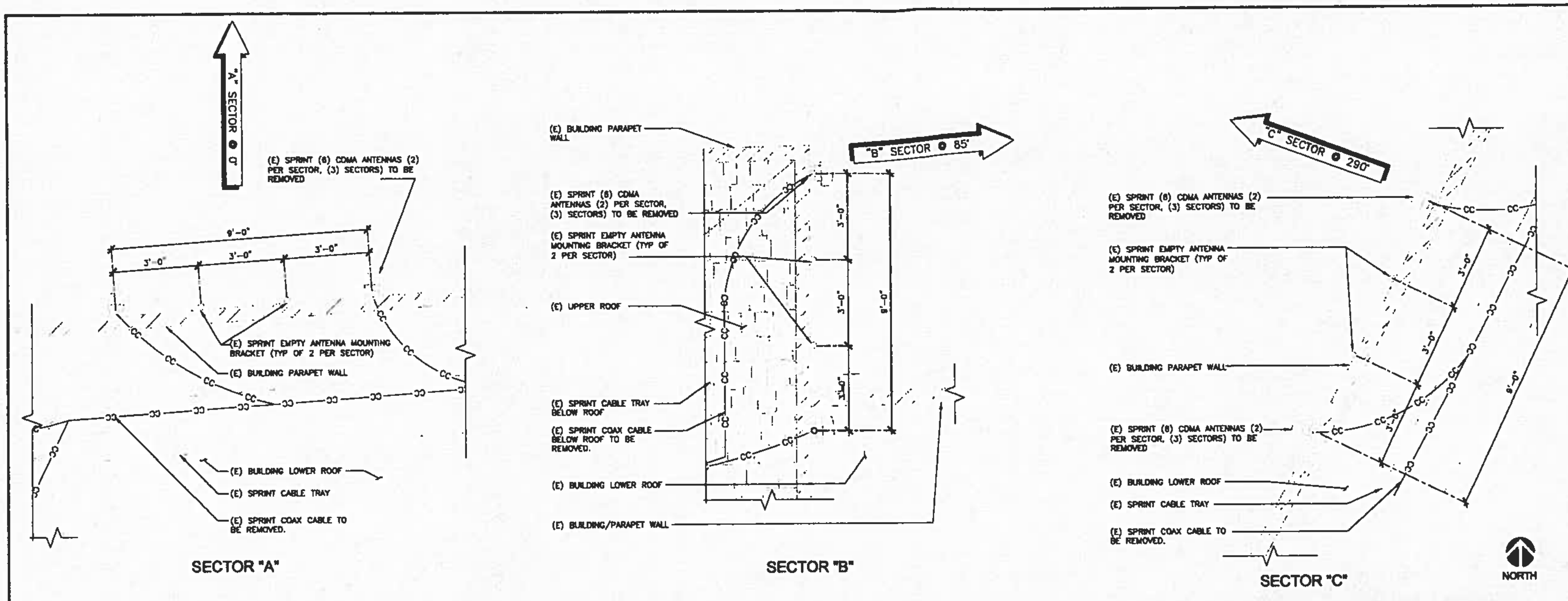
LICENSURE:

SHEET TITLE:

ROOFTOP PLAN

SHEET NUMBER: A-2

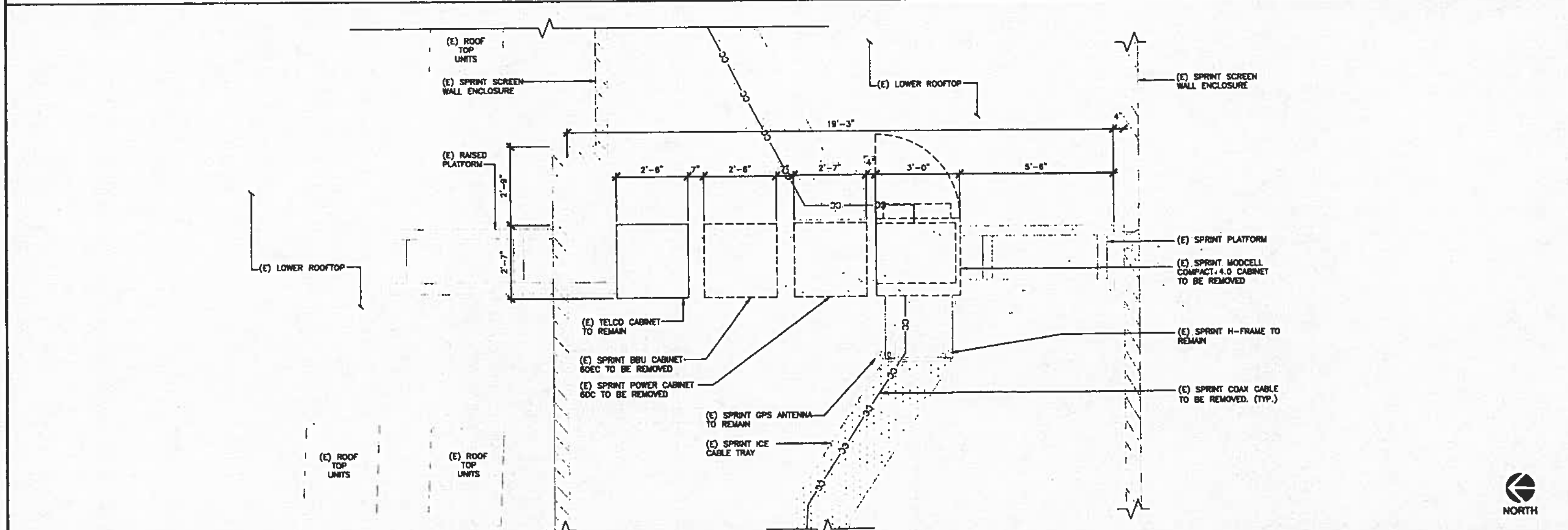
REVISION: F



ENLARGED ANTENNA PLAN (E)

SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17)

1



ENLARGED EQUIPMENT PLAN (E)

SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17)

2

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LICENSURE:

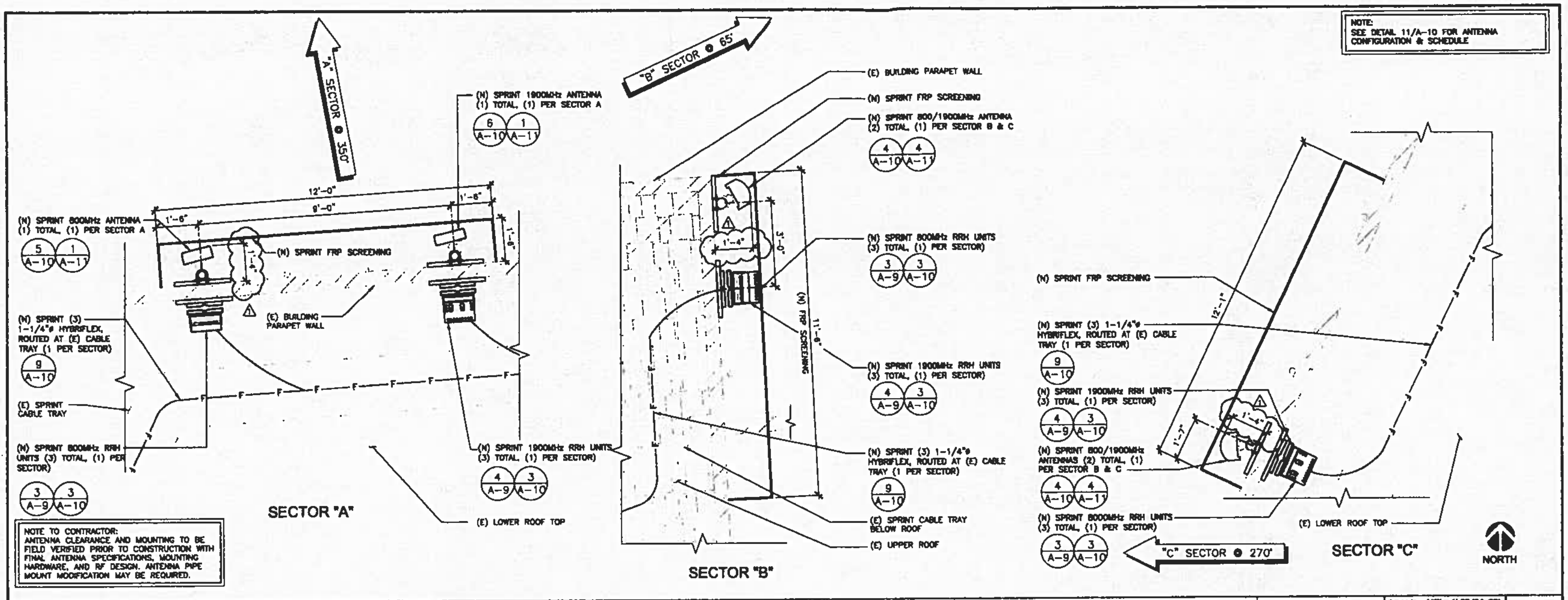
LICENSED ARCHITECT
STATE OF CALIFORNIA

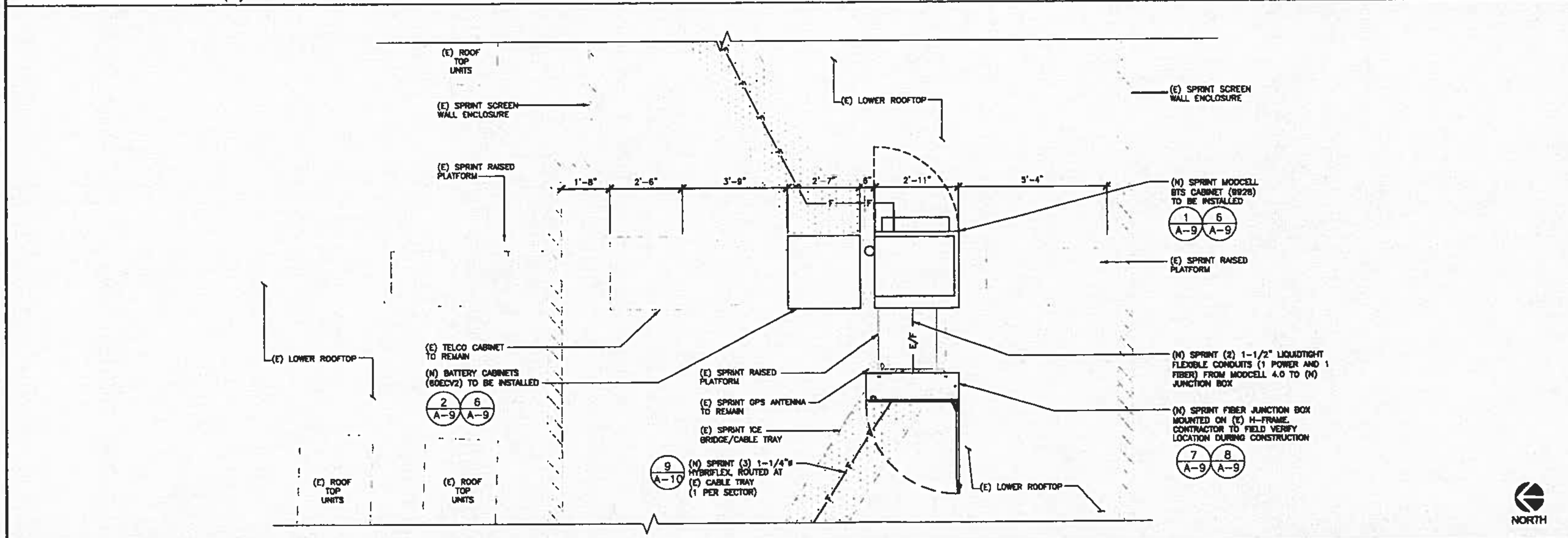
SHEET TITLE:

ENLARGED ANTENNA & EQUIPMENT PLANS (E)

SHEET NUMBER: A-3

REVISION: F





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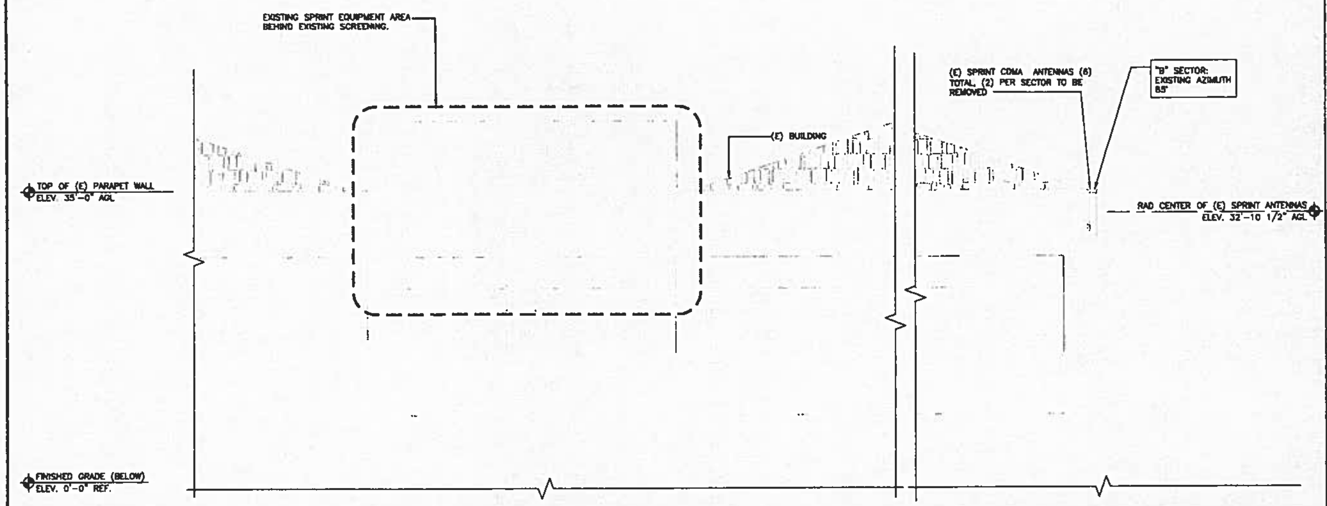
LICENSURE:

SHEET TITLE:

ENLARGED ANTENNA & EQUIPMENT PLANS (N)

SHEET NUMBER: A-4

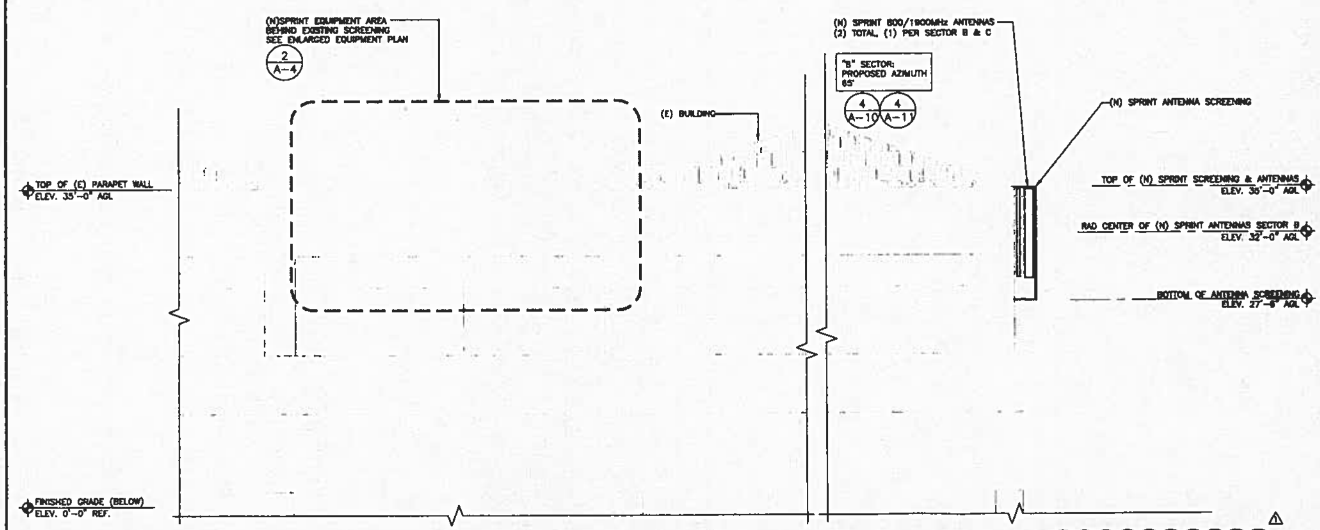
REVISION: F



(E) SOUTH ELEVATION

SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17)

1



(N) SOUTH ELEVATION

SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17)

2

NOTES:

1. CONTRACTOR TO FIELD VERIFY ANTENNA CABLE LENGTHS.
2. ALL MAIN CABLES WILL BE COLOR CODED AT THREE (3) LOCATIONS.
3. COLOR CODE ALL ANTENNA AND COAX WITH 2" WIDE BANDS OF COLORED TAPE WITH 1" SEPARATION BETWEEN BANDS
4. COLOR CODE ALL TOP AND BOTTOM GROUND KITS WITH 1" WIDE BANDS OF COLORED TAPE WITH 1/2" SEPARATION BETWEEN BANDS.
5. START COLOR BANDS 2" BEYOND WEATHERPROOFING.
6. START SECTOR COLOR NEXT TO END CONNECTOR.
7. ALL MAIN CABLES WILL BE GROUNDED W/ HYBRIFLEX CABLE GROUND KITS AT:
   - THE ANTENNA LEVEL
   - MID LEVEL IF TOWER IS OVER 200'
   - BASE OF TOWER PRIOR TO TURNING HORIZONTAL
   - TERMINATION OF COAX LINES TO JUMPERS
8. ALL NEW GROUND BAR DOWNLEADS ARE TO BE CADWELDED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4FT BELOW GROUND BAR
9. PROVIDE BUSS BAR NEAR BTS FOR ATTACHMENT OF WIMAX COAX GROUND KITS

HYBRIFLEX ANTENNA CABLE NOTES:

1. THE ANTENNA HYBRIFLEX CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN SWEEP TESTS (ANTENNA RETURN LOSS TEST). THIS TEST SHALL BE PERFORMED TO THE SPECIFICATIONS AND PARAMETERS OUTLINED BY THE SPRINT RADIO FREQUENCY (RF) ENGINEER. THIS TEST SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE OF THE SITE/
2. THE HYBRIFLEX ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN TIME DOMAIN REFLECTOMETER (TDR) TESTS TO VERIFY CABLE LENGTH AND TO CHECK FOR WATER DAMAGE.
3. VAPOR WRAP WILL BE USED TO SEAL ALL CONNECTIONS.
4. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE WILL BE 1/2" JUMPERS AND SHALL NOT EXCEED 6'-0". MAXIMUM LENGTH FOR THE JUMPERS AT WIMAX BTS UNITS WILL BE 6'-0".
5. IF COAX IS BEING RE-USED FOR THIS INSTALLATION, PRE AND POST ANTENNA LINE SWEEPS ARE REQUIRED.

ANTENNA MOUNTING NOTES:

1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/EIA/TIA-222; APPENDIX B FOR WIND LOADING; "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES" OR APPLICABLE LOCAL CODES.
2. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIPPED GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
5. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED SNUG TIGHT.
6. MINIMUM HORIZONTAL SPACING SHALL BE 2'-0" BETWEEN ALL ANTENNAS.
7. UPON COMPLETION, PROVIDE A HEIGHT VERIFICATION DEPICTING RAD CENTER AND TOP OF ANTENNA.

CONTRACTOR NOTES:

1. (N) SPRINT FIBER LINES FROM (E)/(N) EQUIPMENT, TO (N) SPRINT ANTENNAS ARE TO FOLLOW (E) FIBER/COAX ROUTE (FIELD VERIFY).
2. ALL (N) MATERIALS (ANTENNAS, EQUIPMENT /RRH'S AND ALL HARDWARE) THAT ARE EXPOSED (NOT BEHIND SCREENING) ARE TO BE PAINTED (PER MANUFACTURERS RECOMMENDATIONS) TO MATCH (E) BUILDING FINISH.
3. PATCH AND REPAIR EXISTING MATERIALS, FINISHES, WALLS, ETC. AS NEEDED TO PROVIDE A SEAMLESS TRANSITION FROM (N) TO (E) SURFACES. (N) CONSTRUCTION MUST MATCH (E) BUILDING COLOR, FINISH AND TEXTURE.

GENERAL NOTES:

1. ALL AZIMUTHS ARE TO BE ESTABLISHED CLOCKWISE FROM THE TRUE NORTH HEADING.
2. CONTRACTOR SHALL VERIFY PROPOSED ANTENNA RAD CENTER AND ORIENTATIONS WITH SPRINT PRIOR TO INSTALLATION OF ANTENNAS.
3. PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, EXISTING TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE PROPOSED LOADS. REFER TO STRUCTURAL ANALYSIS BY OTHERS.
4. CONTRACTOR SHALL REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

Sprint

Alcatel-Lucent

SAC WIRELESS ENGINEERING GROUP

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE:

02/10/12

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
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D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
△1	10/9/12	CITY COMMENTS	XS
△1	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

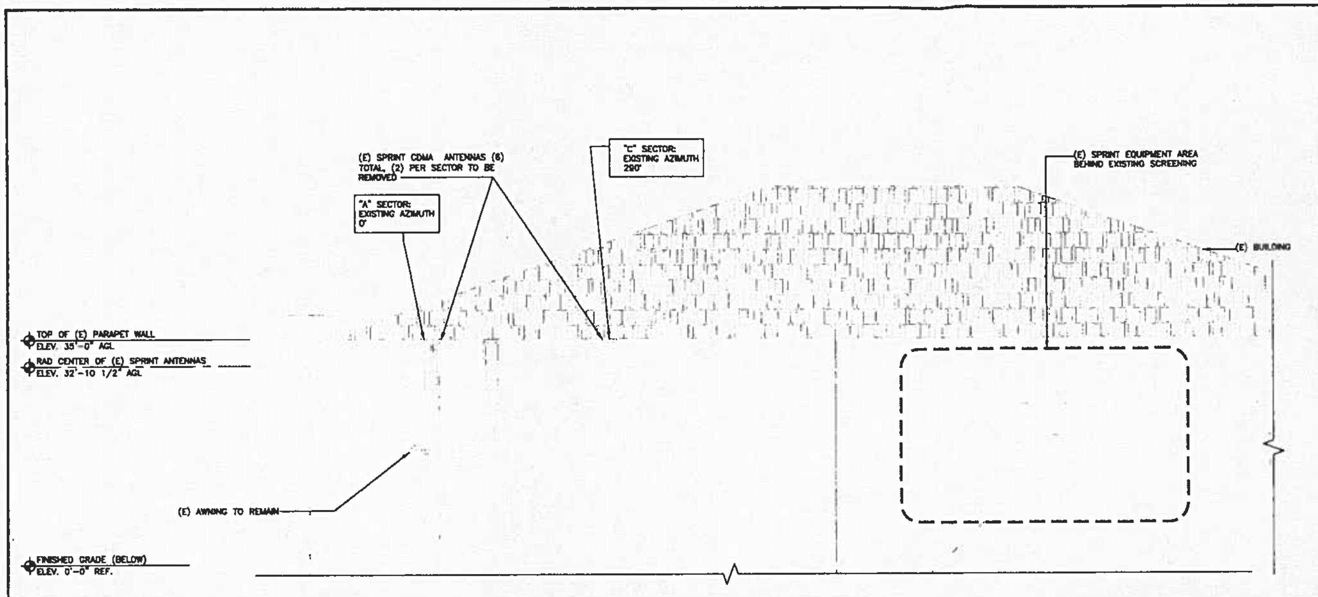
(LICENSED ARCHITECT, STATE OF CALIFORNIA seal)

SHEET TITLE:

(E) & (N) SOUTH ELEVATIONS

SHEET NUMBER: A-5

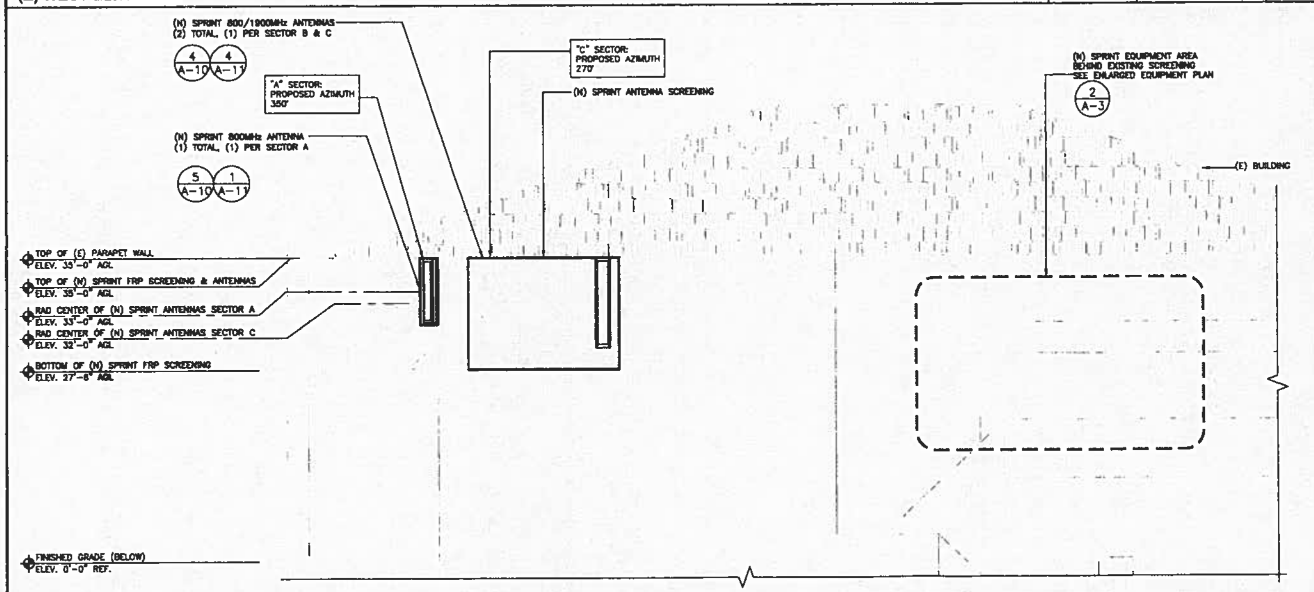
REVISION: F



(E) WEST ELEVATION

SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17)

1



(N) WEST ELEVATION

SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17)

2

NOTES:

1. CONTRACTOR TO FIELD VERIFY ANTENNA CABLE LENGTHS.
2. ALL MAIN CABLES WILL BE COLOR CODED AT THREE (3) LOCATIONS.
3. COLOR CODE ALL ANTENNA AND COAX WITH 2" WIDE BANDS OF COLORED TAPE WITH 1" SEPARATION BETWEEN BANDS
4. COLOR CODE ALL TOP AND BOTTOM GROUND KITS WITH 1" WIDE BANDS OF COLORED TAPE WITH 1/2" SEPARATION BETWEEN BANDS.
5. START COLOR BANDS 2" BEYOND WEATHERPROOFING.
6. START SECTOR COLOR NEXT TO END CONNECTOR.
7. ALL MAIN CABLES WILL BE GROUNDED W/ HYBRIFLEX CABLE GROUND KITS AT:
   - THE ANTENNA LEVEL
   - MID LEVEL IF TOWER IS OVER 200'
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1. THE ANTENNA HYBRIFLEX CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN SWEEP TESTS (ANTENNA RETURN LOSS TEST). THIS TEST SHALL BE PERFORMED TO THE SPECIFICATIONS AND PARAMETERS OUTLINED BY THE SPRINT RADIO FREQUENCY (RF) ENGINEER. THIS TEST SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE OF THE SITE/
2. THE HYBRIFLEX ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN TIME DOMAIN REFLECTOMETER (TDR) TESTS TO VERIFY CABLE LENGTH AND TO CHECK FOR WATER DAMAGE.
3. VAPOR WRAP WILL BE USED TO SEAL ALL CONNECTIONS.
4. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE WILL BE 1/2" JUMPERS AND SHALL NOT EXCEED 8'-0". MAXIMUM LENGTH FOR THE JUMPERS AT WIMAX BTS UNITS WILL BE 6'-0".
5. IF COAX IS BEING RE-USED FOR THIS INSTALLATION, PRE AND POST ANTENNA LINE SWEEPS ARE REQUIRED.

ANTENNA MOUNTING NOTES:

1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/EIA/TIA-222; APPENDIX B FOR WIND LOADING; "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES" OR APPLICABLE LOCAL CODES.
2. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (NOT-DIPPED GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
5. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED SNUG TIGHT.
6. MINIMUM HORIZONTAL SPACING SHALL BE 2'-0" BETWEEN ALL ANTENNAS.
7. UPON COMPLETION, PROVIDE A HEIGHT VERIFICATION DEPICTING RAD CENTER AND TOP OF ANTENNA.

CONTRACTOR NOTES:

1. (N) SPRINT FIBER LINES FROM (E)/(N) EQUIPMENT, TO (N) SPRINT ANTENNAS ARE TO FOLLOW (E) FIBER/COAX ROUTE (FIELD VERIFY).
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Sprint

Alcatel-Lucent

SAC WIRELESS

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE:

02/10/12

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100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
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D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
⚠	10/9/12	CITY COMMENTS	XS
⚠	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

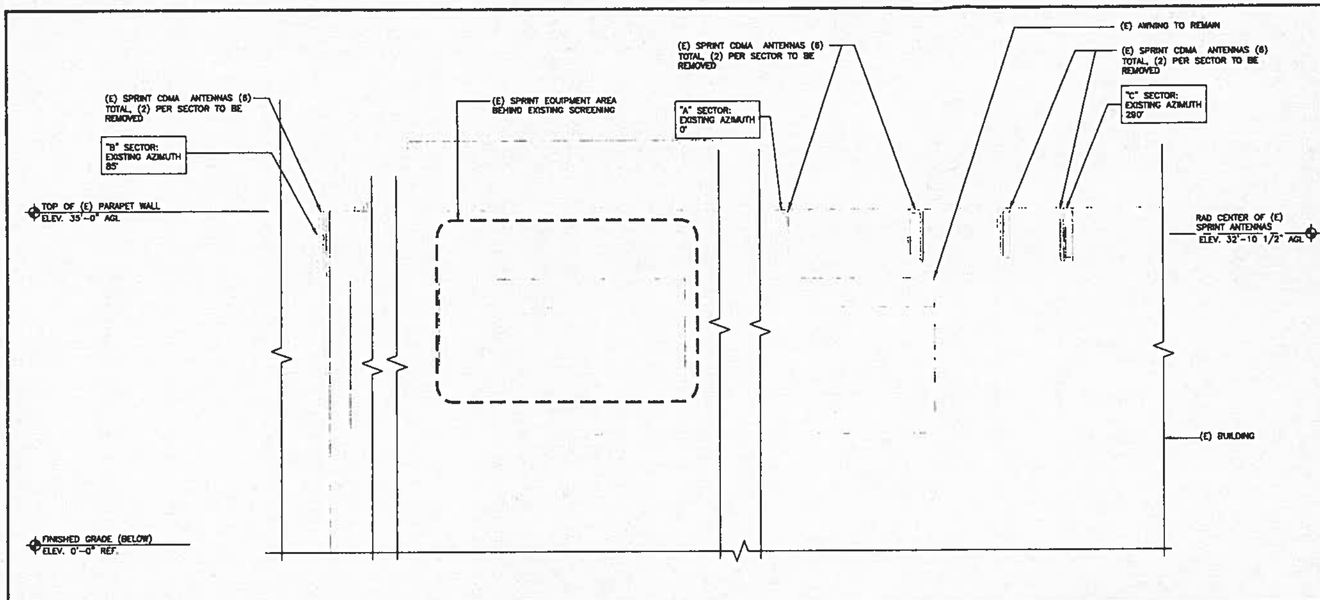
LICENSURE:

SHEET TITLE:

(E) & (N) WEST ELEVATIONS

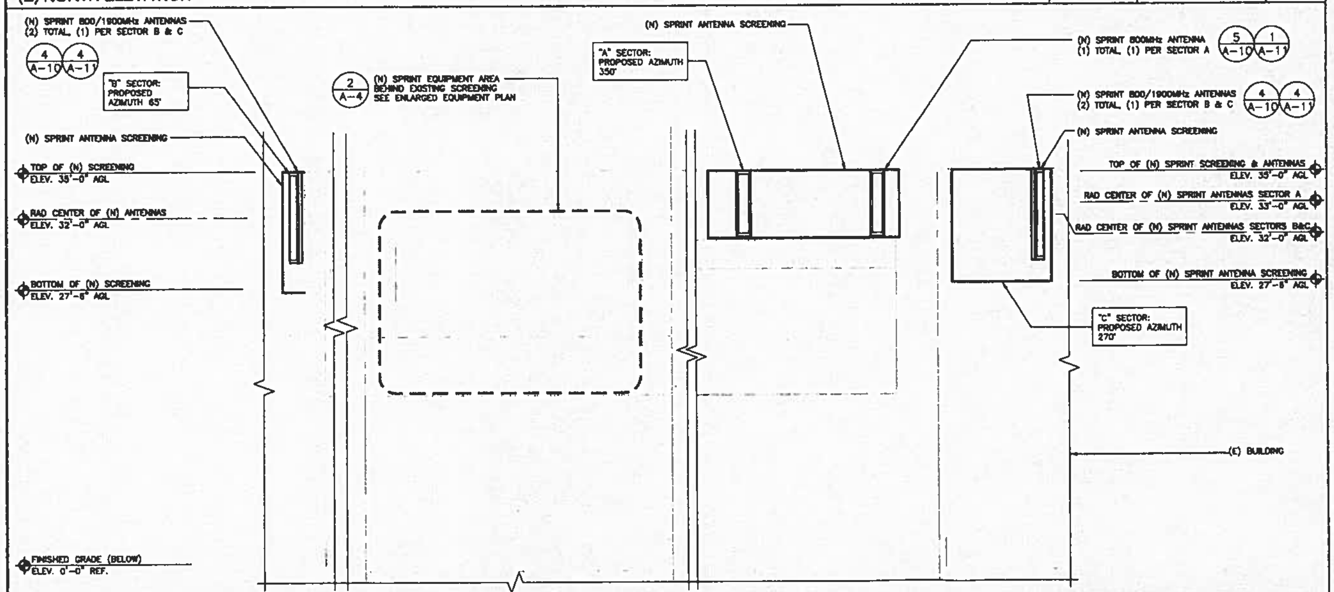
SHEET NUMBER: A-6

REVISION: F



(E) NORTH ELEVATION

SCALE: 1/4" = 1'-0" (24x36) (OR) 1/8" = 1'-0" (11x17) — 1



(N) NORTH ELEVATION

SCALE: 1/4" = 1'-0" (24x36) (OR) 1/8" = 1'-0" (11x17) — 2

NOTES:

1. CONTRACTOR TO FIELD VERIFY ANTENNA CABLE LENGTHS.
2. ALL MAIN CABLES WILL BE COLOR CODED AT THREE (3) LOCATIONS.
3. COLOR CODE ALL ANTENNA AND COAX WITH 2" WIDE BANDS OF COLORED TAPE WITH 1" SEPARATION BETWEEN BANDS
4. COLOR CODE ALL TOP AND BOTTOM GROUND KITS WITH 1" WIDE BANDS OF COLORED TAPE WITH 1/2" SEPARATION BETWEEN BANDS.
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6. START SECTOR COLOR NEXT TO END CONNECTOR.
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3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
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7. UPON COMPLETION, PROVIDE A HEIGHT VERIFICATION DEPICTING RAD CENTER AND TOP OF ANTENNA.

CONTRACTOR NOTES:

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Sprint

Alcatel-Lucent

SAC WIRELESS ENGINEERING GROUP

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE:

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100% CD

REVISIONS

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△1	10/9/12	CITY COMMENTS	XS
△1	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

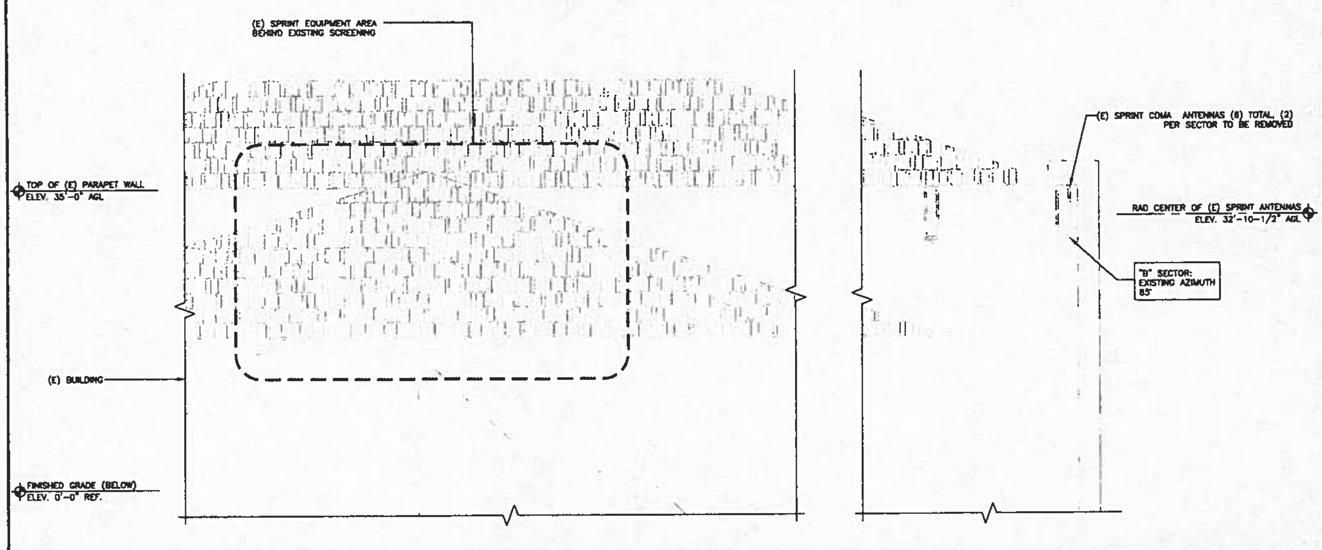
LICENSURE:

SHEET TITLE:

(E) & (N) NORTH ELEVATIONS

SHEET NUMBER: A-7

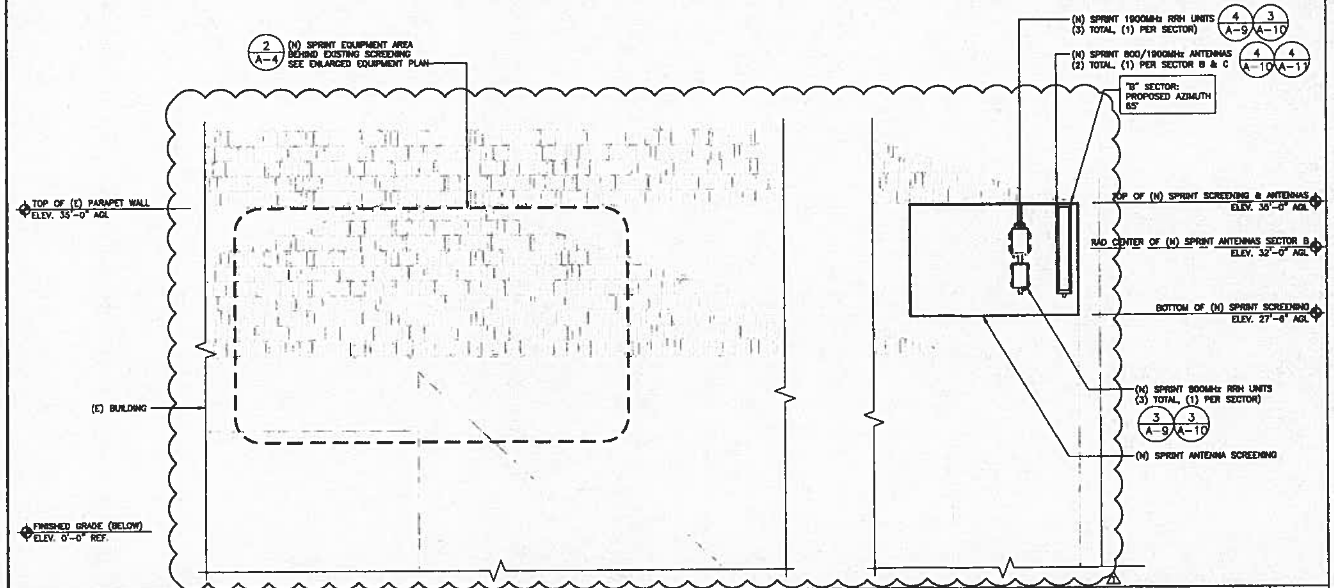
REVISION: F



(E) EAST ELEVATION

SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17)

1



(N) EAST ELEVATION

SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17)

2

NOTES:

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2. ALL MAIN CABLES WILL BE COLOR CODED AT THREE (3) LOCATIONS.
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4. COLOR CODE ALL TOP AND BOTTOM GROUND KITS WITH 1" WIDE BANDS OF COLORED TAPE WITH 1/2" SEPARATION BETWEEN BANDS.
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CONTRACTOR NOTES:

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SAC WIRELESS ENGINEERING GROUP

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△1	10/16/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

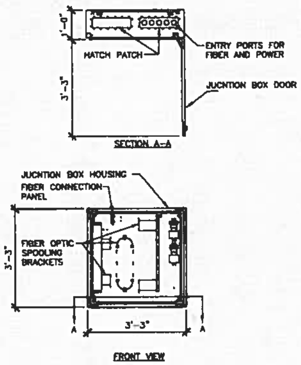
LICENSED ARCHITECT ... POPOWICH No. C-27498 Ren. 4-30-13 STATE OF CALIFORNIA

SHEET TITLE:

(E) & (N) EAST ELEVATIONS

SHEET NUMBER: A-8

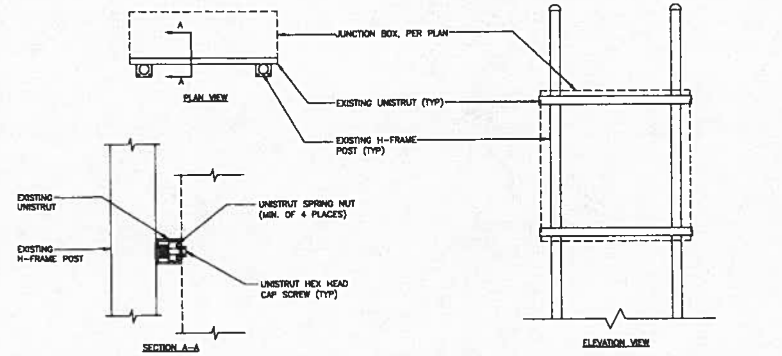
REVISION: F



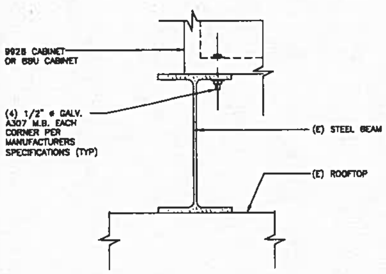
NOTE:

1. UNLESS OTHERWISE SPECIFIED, PRIMARY DIMENSIONS ARE IN MILLIMETERS, SECONDARY DIMENSIONS ARE EXPRESSED IN INCHES AND ARE ENCLOSED IN BRACKERS. NON-LIMITED DIMENSIONS, OTHER THAN THE SIZE OF RAW MATERIAL, SHALL BE HELD TO ±0.75 [.03] EXCEPT AS FOLLOWS:
   EDGE TO HOLE: ±0.35 [.015]
   FLANGE TO HOLE: ±0.5 [.020]
   BETWEEN HOLES:
   IN FLATE: ±0.15 [.005]
   BETWEEN FLANGES: ±0.5 [.020]
   HOLES:
   STANDARD: ±0.15 [.005]
   PRESS FIT: +0.08 -0.00 [+.003-.000]
   ANGLES: ±1 DEGREES
2. THIS IS A PRO/ENGINEER PARAMETRIC, COMPUTER-GENERATED DRAWING. ANY CHANGES MUST BE MADE WITHIN THE FILES.
3. THIS DRAWING COMPLEMENTS THE ELECTRONIC DATA FILES LISTED IN THE PRO/I REVISION FILE TABLE. BOTH ELECTRONIC DATA DILES AND THE DRAWING ARE REQUIRED FOR COMPLETE MANUFACTURING INFORMATION.
4. DIMENSIONS NOT INDICATED AS REFERENCE ARE COORDINATED OR CRITICAL, TOLERANCES FOR THESE DIMENSIONS ARE STATED ON THE DRAWING.
5. TOLERANCES ARE NOT CUMULATIVE.
6. REMOVE ALL BURRS AND SHARP EDGES.
7. UNLESS OTHERWISE SPECIFIED, THE MAIMUM INSIDE BENDING RADII SHALL BE EQUAL TO THE THICKNESS OF THE MATERIAL BEING FORMED.
8. THIS PART/ASSEMBLY SHALL CONFORM TO ALCATEL-LUCENT BANNED SUBSTANCE AND ENVIRONMENTAL HAZARDOUS SUBSTANCE REQUIREMENTS DOCUMNETD IN 1AA 00288 0035 ASZZA.
9. ALL MOUNTING MATERIAL (SCREWS, WASHERS AND NUTS) SHALL CONFORM TO ANSI AND ASME STANDARDS.
10. PAPER PULL TEST A TRIP OF PAPER IS PLACED BETWEEN THE CABINET J FLANGE AND THE DOOR GASKET WHILE THE DOOR, FULLY, THE PAPER IS PULLED GENTLY. THE PAPER SHALL OFFER SIGNIFICANT RESISTANCE, GREATER THAN 2 PUNDS (0.9KG), WHICH INDICATES ADQUATE GASKET COMPRESSION. LOWER OR NO RESISTANCE INDICATES POOR GASKET COMPRESSION AND REQUIRES CORRECTION. THE STRIP OF PAPER SHOULD BE 25MM (1.0 INCH) WIDE. IT SHOULD CONSIST OF CONVENTIONAL PAPER (~75 GRAMS/METERS), .076MM(.003 INCHES) TO .088(.0035 INCHES) THICK. PAPER TESTING IS DONE ON FRONT DOOR WHERE GASKET COMPRESSION IS AT MINIMUM)RIGHT SIDE TOP AND BOTTOM CORNERS, ON THE HORIZONTAL EDGES, AND MIDWAY BETWEEN EACH OF THE PAWLS.
11. VELCRO BELT SHALL BE CUT TO 60MM (23.5 INCH)

(N) FIBER JUNCTION BOX — SCALE N.T.S. — 8

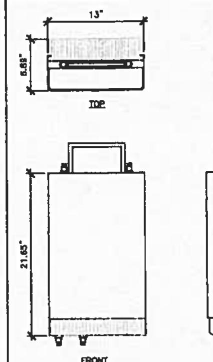


JUNCTION BOX MOUNTING TO (E) H-FRAME — SCALE N.T.S. — 7



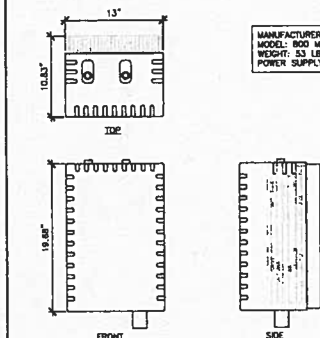
CABINET MOUNTING — SCALE N.T.S. — 6

NOT USED — SCALE N.T.S. — 5



MANUFACTURER: PANASONIC
MODEL: PCS 1900 MHz, 2x40W
WEIGHT: 44 LBS
POWER SUPPLY: -48 VDC

1900 MHz RRH — 4



MANUFACTURER: ANDREW
MODEL: 800 MHz, IDEN 2x50W
WEIGHT: 53 LBS
POWER SUPPLY: -48 VDC

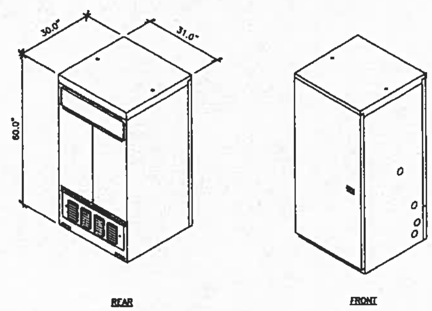
800 MHz RRH — 3

MANUFACTURER: ANDREW (COMMSCOPE)
MODEL: 60ECv2

CABINET DIMENSIONS:
HEIGHT: 60 IN. (152.4 CM)
WIDTH: 31 IN. (78.7 CM)
DEPTH: 30 IN. (76.2 CM)

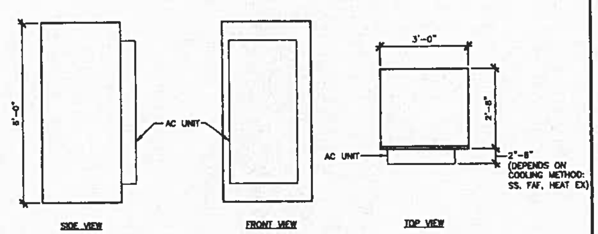
CABINET OPERATING TEMPERATURE RANGE:
-40°C TO 46°C

WEIGHT:
CABINET: 425#
BATTERIES: 100# EACH
(20 BATTERIES MAX - 2,000 POUNDS MAX WEIGHT)
CABINET MAX WEIGHT: 2,425#



(N) 60ECv2 BATTERY BACKUP CABINET (BBU) — SCALE N.T.S. — 2

MANUFACTURER: ALCATEL-LUCENT
MODEL #: 9928
MAIN CABINET DIMENSIONS:
HEIGHT: 72"
WIDTH: 35.5"
DEPTH: 32"
ESTIMATED MAX WEIGHT:
FACTORY: 1190 LBS
UPGRADED: 1390 LBS



(N) MODCELL BTS CABINET (9928) — SCALE N.T.S. — 1

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SAC WIRELESS ENGINEERING GROUP

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO
LA03XC201
30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE: 02/10/12

ISSUED FOR: 100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
C	02/02/12	100% CD	AMF
D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
⚠	10/9/12	CITY COMMENTS	KS
⚠	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

SHEET TITLE: EQUIPMENT DETAILS

SHEET NUMBER: A-9
REVISION: F

Sprint

Alcatel-Lucent

SAC WIRELESS

PROJECT INFORMATION:

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2	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

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LICENSURE:

SHEET TITLE: CONSTRUCTION DETAILS

SHEET NUMBER: A-10

REVISION: F

PROPOSED ANTENNA CONFIGURATION AND SCHEDULE

SECTOR A	AZIMUTH	RADCENTER	# OF ANTENNAS	VENDOR	MODEL	MECH. TILT	RET	COMBINER	RRH	FIBER OPTIC	FIBER LENGTH
800MHz	350'	33'-0"	1	POWERWAVE	7481.00-A	0	-8	NA	(1) 800MHz, (1) 1900MHz	(1) 1-1/4" HYBRIFLEX HB114-1-08U4-M5F	101'-0"
1900MHz	350'	33'-0"	1	POWERWAVE	7762.00-A	0	0				

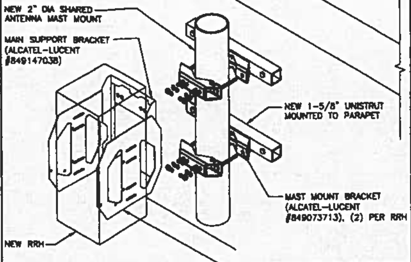
SECTOR B	AZIMUTH	RADCENTER	# OF ANTENNAS	VENDOR	MODEL	MECH. TILT	RET	COMBINER	RRH	FIBER OPTIC	FIBER LENGTH
800MHz	65'	32'-0"	1	RFS	APXVSPP18-C-A20	0	-8	NA	(1) 800MHz, (1) 1900MHz	(1) 1-1/4" HYBRIFLEX HB114-1-08U4-M5F	136'-0"
1900MHz						0	0				

SECTOR C	AZIMUTH	RADCENTER	# OF ANTENNAS	VENDOR	MODEL	MECH. TILT	RET	COMBINER	RRH	FIBER OPTIC	FIBER LENGTH
800MHz	270'	32'-0"	1	RFS	APXVSPP18-C-A20	0	0	NA	(1) 800MHz, (1) 1900MHz	(1) 1-1/4" HYBRIFLEX HB114-1-08U4-M5F	149'-0"
1900MHz						0	0				

RFDS DATED: 11/09/2012

NOTE:
CONTRACTOR TO SEE "FINAL" RFDS FOR BUILD.

(N) ANTENNA CONFIGURATION AND SCHEDULE — SCALE N.T.S. — 11

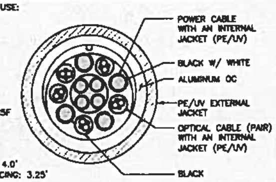


SECURE TO WALL USING:
- WOOD STUDS: 1/4"⌀ x 3-1/2" LAG BOLT
- SOLID CONCRETE WALL: 5/8" ⌀ HILTI KWIK BOLT TZ, 4" MIN EMBED (ICC ESR #1917)
- HOLLOW CMU: HILTI HH C20 EPOXY W/ MIN. 6" EMB (ICBO#4016)

RRH MOUNTING — SCALE N.T.S. — 10

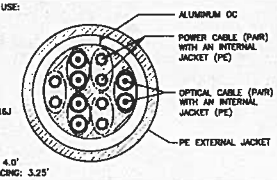
*FOR RUNS OVER 201 FT. USE:
H114-1-0813U4-M5F

INDOOR CABLE RUNS:
MANUFACTURER: RFS
MODEL: HB114-1-08U4-M5F
WEIGHT (LB/FT): 1.30
MINIMUM BENDING RADIUS
SINGLE BENDING: 8"
REPEATED BENDING: 20"
MAXIMUM CLAMP SPACING: 4.0'
RECOMMENDED CLAMP SPACING: 3.25'



*FOR RUNS OVER 201 FT. USE:
H114-1-0813U4-M6J

OUTDOOR CABLE RUNS:
MANUFACTURER: RFS
MODEL: HB114-1-08U4-M6J
WEIGHT (LB/FT): 1.30
MINIMUM BENDING RADIUS
SINGLE BENDING: 8"
REPEATED BENDING: 20"
MAXIMUM CLAMP SPACING: 4.0'
RECOMMENDED CLAMP SPACING: 3.25'

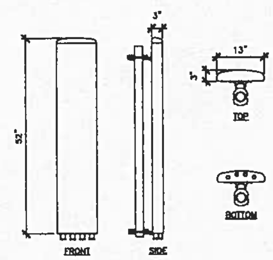


HYBRIFLEX CABLE — SCALE N.T.S. — 9

NOT USED — SCALE N.T.S. — 8

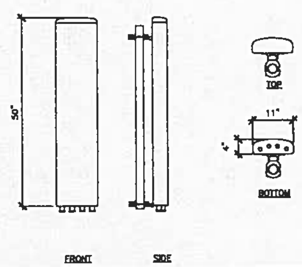
NOT USED — SCALE N.T.S. — 7

MANUFACTURER: POWERWAVE
MODEL: 7762.00 SPRINT
WEIGHT (W/ BRACKETS): 51.8 LBS
WEIGHT (W/O BRACKETS): 39.6 LBS
DIMENSIONS: (HxWxD) 4'-4"x1'-1"x3"
FREQUENCY: REFER TO RF DATA SHEET

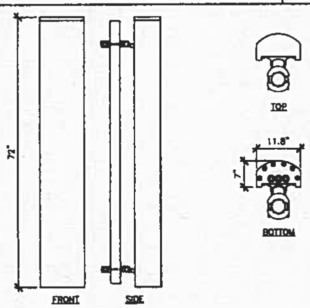


(N) PANEL ANTENNA (1900MHz) — SCALE N.T.S. — 6

MANUFACTURER: POWERWAVE
MODEL: 7481.00 SPRINT
WEIGHT (W/ BRACKETS): 40.7 LBS
DIMENSIONS (HxWxD): 50"x11"x4"
FREQUENCY: REFER TO RF DATA SHEET

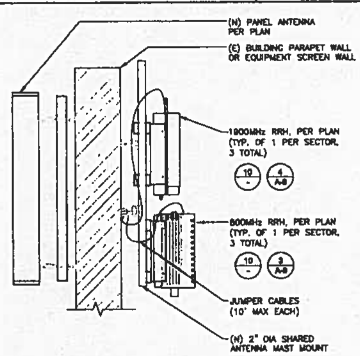


(N) PANEL ANTENNA (800MHz) — SCALE N.T.S. — 5



MANUFACTURER: RFS
MODEL: APXVSPP18-C
WEIGHT W/O MOUNTING HARDWARE: 57 LBS
DIMENSIONS: HxWxD: 72.0"x11.8"x7.0"
FREQUENCY: REFER TO RF DATA SHEET

(N) PANEL ANTENNA 800/1900 MHz — SCALE N.T.S. — 4



800/1900MHz MOUNTING — SCALE N.T.S. — 3

NOT USED — SCALE N.T.S. — 2

NOT USED — SCALE N.T.S. — 1

NOT USED

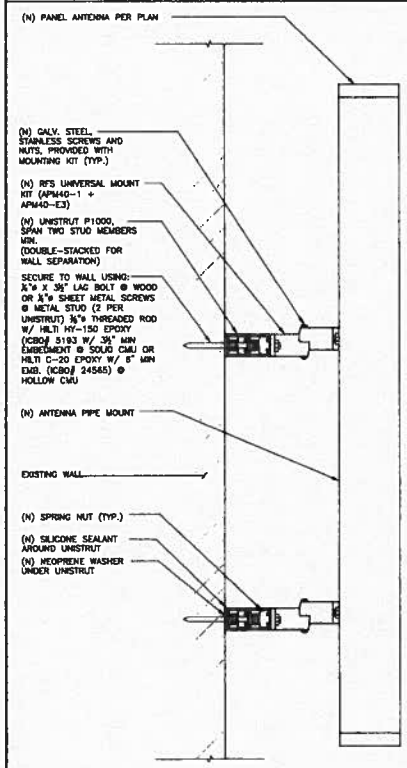
SCALE N.T.S. 9

NOT USED

SCALE N.T.S. 8

NOT USED

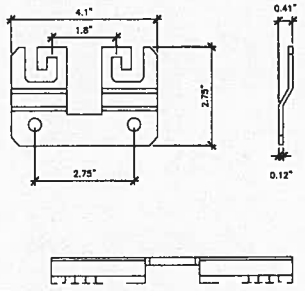
SCALE N.T.S. 7



RFS UNIVERSAL FLUSH MOUNT KIT — SCALE N.T.S. 4

NOT USED

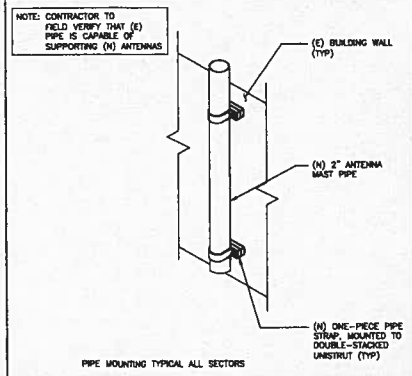
SCALE N.T.S. 6



POWERWAVE FLUSH MOUNT CLAMP (7455) — 3

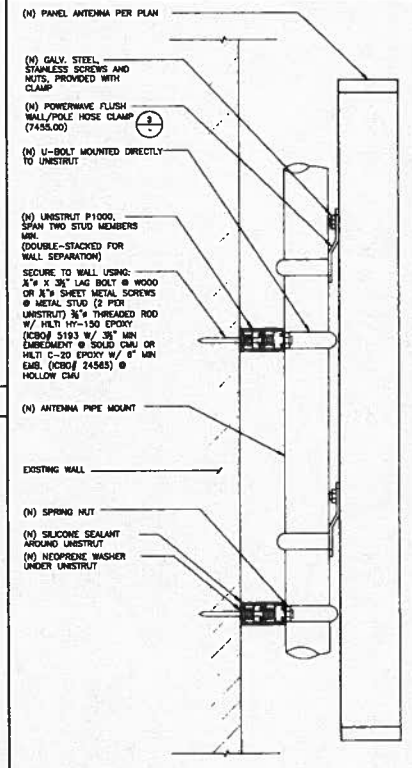
NOT USED

SCALE N.T.S. 5



PIPE MOUNTING TYPICAL ALL SECTORS

PIPE MOUNTING — SCALE N.T.S. 2



POWERWAVE FLUSH MOUNTING — SCALE N.T.S. 1

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SAC WIRELESS ENGINEERING GROUP

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⚠	10/9/12	CITY COMMENTS	XS
⚠	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

LICENSED ARCHITECT — ROBERT POWELL — No. C-27488 — Renl 4-30-13 — STATE OF CALIFORNIA

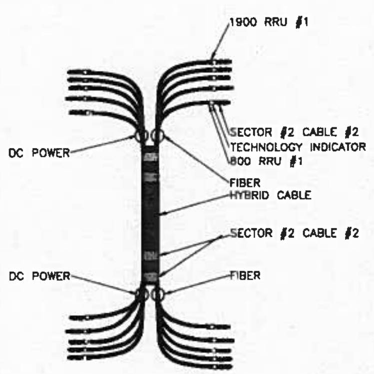
SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER: A-11

REVISION: F

5 NOT USED
SCALE: N.T.S.



3 HYBRID CABLE COLOR CODE
SCALE: N.T.S.

TYPICAL COAX CABLE COLOR CODING SCHEME

SECTOR	CABLE	FIRST RING	SECOND RING	THIRD RING
1 ALPHA	1	GREEN	NO TAPE	NO TAPE
1	2	BLUE	NO TAPE	NO TAPE
1	3	BROWN	NO TAPE	NO TAPE
1	4	WHITE	NO TAPE	NO TAPE
1	5	[illegible]	NO TAPE	NO TAPE
1	6	SLATE	NO TAPE	NO TAPE
1	7	PURPLE	NO TAPE	NO TAPE
1	8	ORANGE	NO TAPE	NO TAPE
2 BETA	1	GREEN	GREEN	NO TAPE
2	2	BLUE	BLUE	NO TAPE
2	3	BROWN	BROWN	NO TAPE
2	4	WHITE	WHITE	NO TAPE
2	5	RED	RED	NO TAPE
2	6	SLATE	SLATE	NO TAPE
2	7	PURPLE	PURPLE	NO TAPE
2	8	ORANGE	ORANGE	NO TAPE
3 GAMMA	1	GREEN	GREEN	GREEN
3	2	BLUE	BLUE	BLUE
3	3	BROWN	BROWN	BROWN
3	4	WHITE	WHITE	WHITE
3	5	RED	RED	RED
3	6	SLATE	SLATE	SLATE
3	7	PURPLE	PURPLE	PURPLE
3	8	ORANGE	ORANGE	ORANGE

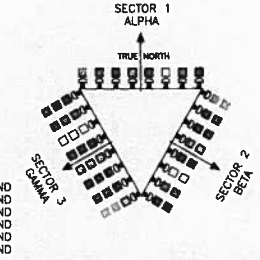
4 COAXIAL CABLE COLOR CODE
SCALE: N.T.S.

TECHNOLOGY COLOR CODE	FIRST RING	SECOND RING
800 #1	YELLOW	GREEN
1900 #1	YELLOW	[illegible]
1900 #2	YELLOW	[illegible]
RESERVED	YELLOW	[illegible]
RESERVED	YELLOW	SLATE
RESERVED	YELLOW	ORANGE
RESERVED	YELLOW	WHITE

2 FREQUENCY COLOR CODE
SCALE: N.T.S.

ANTENNA AND CABLE COLOR CODING

(3 SECTORED / MULTIPLE RF CHANNELS)
ASSUMING 8 LINES AND ANTENNAS



SECTOR LEGEND

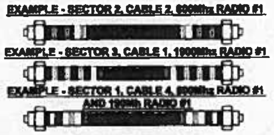
SECTOR 1 => 1 BAND
SECTOR 2 => 2 BAND
SECTOR 3 => 3 BAND
SECTOR 4 => 4 BAND
SECTOR 5 => 5 BAND
SECTOR 6 => 6 BAND

TECHNOLOGY COLOR CODE

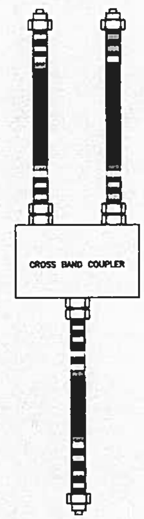
EXAMPLE - SECTOR 2, CABLE 2, 800Mhz RADIO #1

EXAMPLE - SECTOR 3, CABLE 1, 1900Mhz RADIO #1

EXAMPLE - SECTOR 1, CABLE 4, 800Mhz RADIO #1 AND 1900Mh RADIO #1



1. COLOR BAND TO BE 2" WIDE ON MAIN LINE.
2. SPACING TO BE 1" BETWEEN BANDS AND 2" BETWEEN LINE AND TECHNOLOGY BANDS. NO SPACE BETWEEN TECHNOLOGY COLOR BANDS.
3. COLOR BAND ON JUMPERS 1" WIDE W/ 1" SPACE.
4. START COLOR BANDS 2" BEYOND WEATHERPROOFING.
5. START SECTOR COLOR NEXT TO END CONNECTOR.



1 ANTENNA & CABLE COLOR CODE
SCALE: N.T.S.

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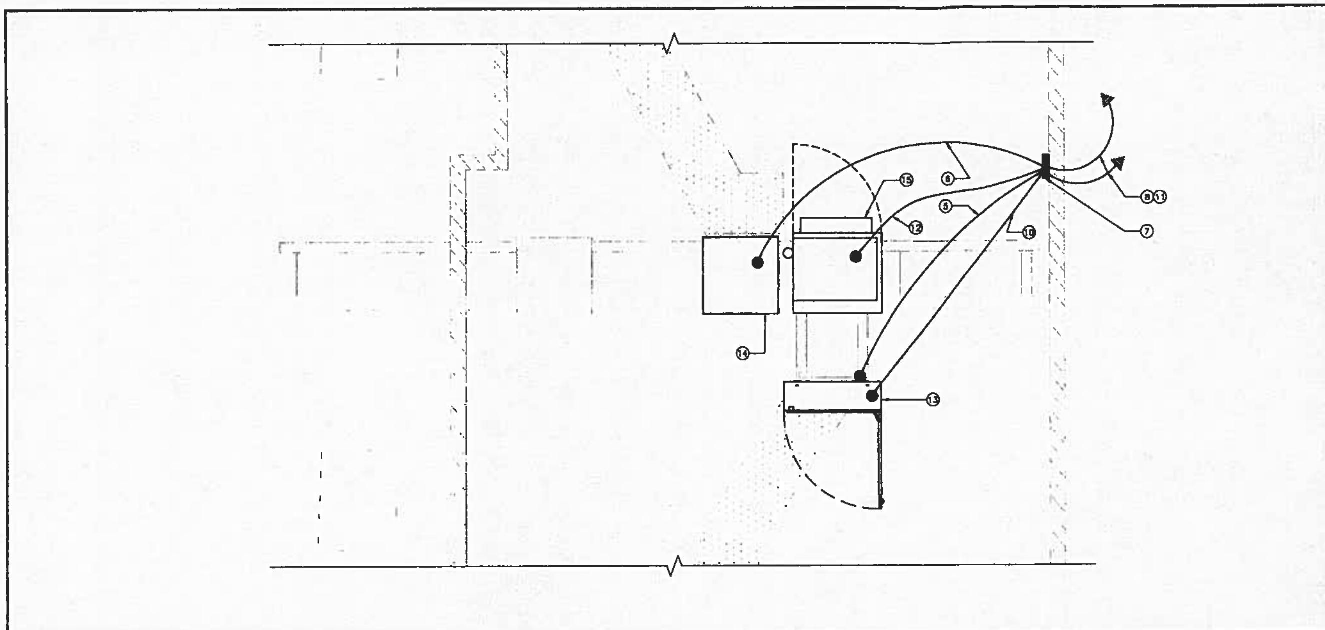
LICENSURE:

SHEET TITLE:
(N) COLOR CODING

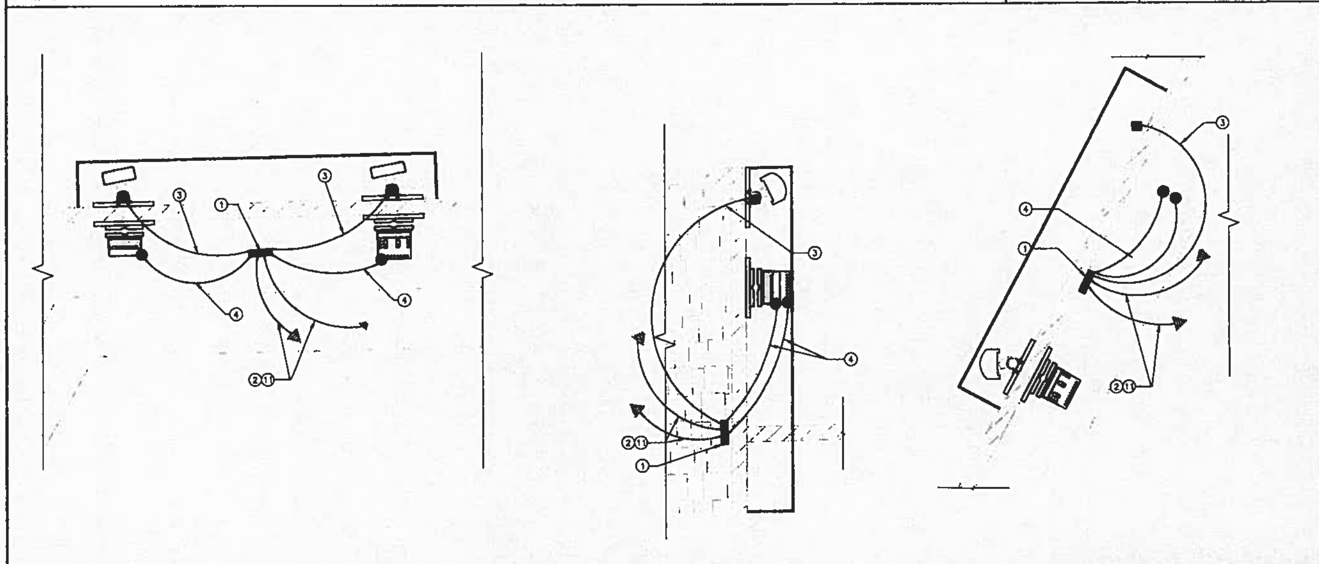
SHEET NUMBER: A-12

REVISION: F



EQUIPMENT SCHEMATIC GROUNDING PLAN

SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17) — 2



ANTENNA SCHEMATIC GROUNDING PLAN

SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17) — 1

GROUNDING KEYED NOTES:

1. ANTENNA GROUND BUSS BAR NEAR ANTENNA MOUNTS WITH COAX GROUND KIT. SEE DETAIL 4/E-2 FOR GROUND BAR CONSTRUCTION, SEE DETAIL 3/E-2 FOR GROUND WIRE CONNECTIONS, AND SEE DETAIL 2/E-2 FOR COAX GROUNDING.
2. #6 AWG GROUND FROM ANTENNA GROUND BUSS BAR TO TIE INTO (E) ROOF GROUNDING SYSTEM (TYP OF (2) PLACES)
3. #6 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BUSS BAR (TYP OF 6)
4. #6 AWG GROUND FROM RRH UNITS TO ANTENNA GROUND BUSS BAR
5. #6 AWG GROUND FROM H-FRAME TO TIE INTO (E) GROUND BUSS BAR.
6. #6 AWG GROUND FROM BBU CABINET TO TIE INTO (E) GROUND BUSS BAR.
7. (E) GROUND BUSS BAR NEAR EQUIPMENT WITH COAX GROUND KIT. SEE DETAIL 4/E-2 FOR GROUND BAR CONSTRUCTION, SEE DETAIL 3/E-2 FOR GROUND WIRE CONNECTIONS, AND SEE DETAIL 2/E-2 FOR COAX GROUNDING.
8. #6 AWG GROUND FROM (E) GROUND BUS BAR TO TIE INTO (E) ROOF GROUNDING SYSTEM (TYP OF (2) PLACES)
9. CAD WELD (TYP).
10. #6 AWG GROUND FROM FIBER JUNCTION BOX TO TIE INTO (E) GROUND BUSS BAR.
11. GC SHALL VERIFY (2) #6 AWG THHN GROUND LEADS FROM EACH OF TWO REMOTE INDIVIDUAL BUSES TO BE COLLECTED AT ONE MAIN MGB AND FURTHER ROUTED TO (E) BUILDING STEEL OR OTHER (E) DESIGNATED BUILDING GROUNDING SYSTEM (FINAL DESIGNATED POINT OF GROUNDING TO BE COORDINATED BETWEEN CM, GC AND BUILDING OWNER).
12. #6 AWG GROUND FROM MODCELL CABINET TO TIE INTO (E) GROUND BUSS BAR.
13. (N) SPRINT FIBER JUNCTION BOX MOUNTED ON (E) H-FRAME. CONTRACTOR TO FIELD VERIFY LOCATION DURING CONSTRUCTION
14. (N) SPRINT BATTERY CABINET (60ECV2) TO BE INSTALLED
15. (N) SPRINT MODCELL BTS CABINET (9928) TO BE INSTALLED

ALL ROOF TOP GROUND LEADS SHALL BE THERMOPLASTIC HIGH HEAT-RESISTANT NYLON-COATED (THHN).

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊗	COPPER GROUND ROD	⊠	TEST WELL
●	MECHANICAL CONNECTION	▬	GROUND BAR
■	CADWELD CONNECTION		
↘	FIELD VERIFY & TIE INTO (E) GROUNDING SYSTEM		

GROUNDING NOTES & LEGEND

GENERAL GROUNDING NOTES

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURERS PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.
3. ALL GROUND CONNECTIONS SHALL BE CADWELD. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE. GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY SPRINT WIRELESS, LLC. REPRESENTATIVE.
5. REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
6. CONTRACTOR TO ABIDE BY ALL ALU / SPRINT SAFETY STANDARDS DURING SITE CONSTRUCTION.
7. CONTRACTOR SHALL REFER TO ALU / SPRINT STANDARDS FOR GROUNDING CONNECTIONS & INSTALLATION METHODS.
8. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED SPRINT MOBILITY REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RING
9. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.

GROUNDING ROD NOTES

(WHERE APPLICABLE)
ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.

2 POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND (E) COMMUNICATIONS FACILITY.

Sprint

Alcatel-Lucent

SAC WIRELESS

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE: 02/10/12

ISSUED FOR: 100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
C	02/02/12	100% CD	AMF
D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
⚠	10/9/12	CITY COMMENTS	XS
⚠	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

SHEET TITLE: SCHEMATIC GROUNDING PLAN

SHEET NUMBER: E-1

REVISION: F

Sprint

Alcatel-Lucent

SAC WIRELESS ENGINEERING GROUP

NOT USED

SCALE N.T.S. 7

NOTES:

EXISTING SINGLE PHASE, 120/240 VAC, 60HZ SERVICE WILL PROVIDE SUFFICENT POWER REQUIREMENTS FOR NEW PROPOSED SPRINT EQUIPMENT, CABLING & ANTENNA UPGRADES

GC SHALL COORDINATE WITH ELECTRICIAN PRIOR TO START OF CONSTRUCTION; AS NO ADDITIONAL POWER AND TELEPHONE CONDUIT SHALL BE INSTALLED EXCEPT FOR CABLING WITHIN CONDUIT FROM EACH OF (1) NEW BBU TO THE EXISTING POWER CABINET AND FROM THE NEW LUCENT MOD CELL 9928 EQUIPMENT CABINET TO EACH OF (12) RRH UNITS VIA NEW SINGLE HYBRIFLEX FIBER OPTIC CABLING ROUTED FROM THE EXISTING SPRINT EQUIPMENT PLATFORM TO ALL ANTENNA SECTORS

FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY PANEL MANUFACTURER.

ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C., UTILITY COMPANY, AND LOCAL CODE REQUIREMENTS.

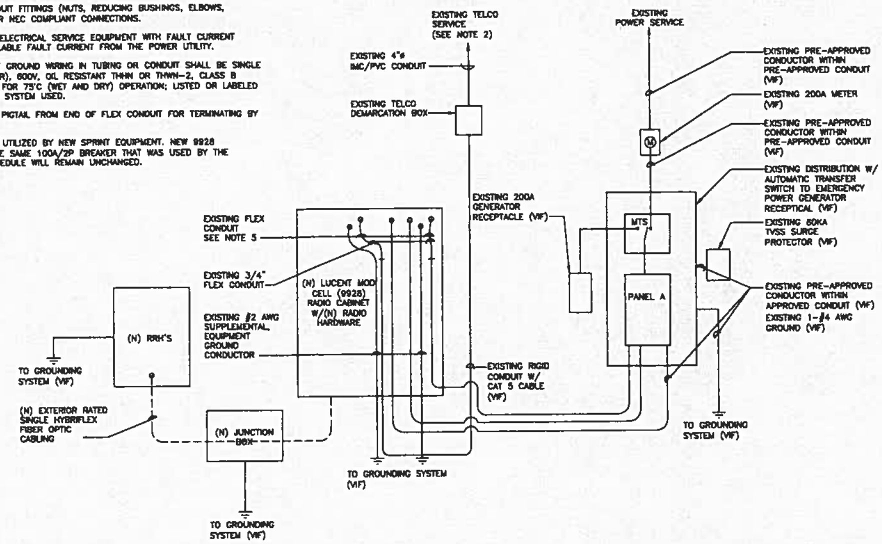
EXISTING CONDUIT WITH ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC.) NECESSARY FOR NEC COMPLIANT CONNECTIONS.

SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.

POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#10 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 75°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.

CUT, COIL AND TAPE A 10 FOOT PIGTAIL FROM END OF FLEX CONDUIT FOR TERMINATING BY MANUFACTURER.

MAIN PANEL IS TO REMAIN & BE UTILIZED BY NEW SPRINT EQUIPMENT. NEW 9928 EQUIPMENT CABINET WILL USE THE SAME 100A/2P BREAKER THAT WAS USED BY THE REMOVED EQUIPMENT. PANEL SCHEDULE WILL REMAIN UNCHANGED.

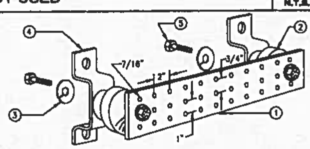


NOT USED

SCALE N.T.S. 6

ELECTRICAL ONE LINE DIAGRAM

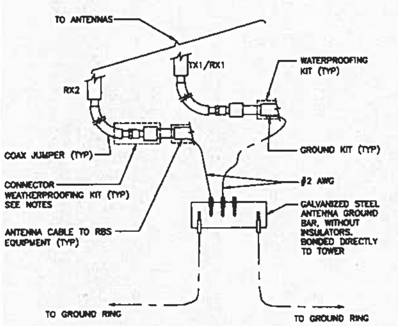
SCALE N.T.S. 5



1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-8 OR APPROVED EQUAL
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6056 OR APPROVED EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.
7. NETWORK VISION MMBS DEPLOYMENTS INSTALLED AT LEGACY CDMA OR IDEN SITES SHALL USE THE EXISTING COPPER GROUND BARS IF THEY ARE PRESENT. IF THE COPPER GROUND BARS HAVE BEEN STOLEN THEY SHALL BE REPLACED WITH THE STAINLESS STEEL BAR AF000062 - IMN 010328 FOR MMBS OUTDOOR AND AF000063 - IMN 010330 FOR LEGACY SHELTER CELL SITES

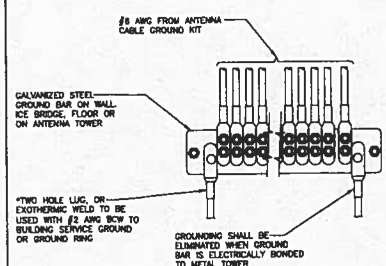
GROUND BAR

SCALE N.T.S. 4



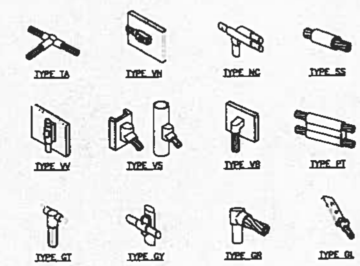
GROUND CABLE CONNECTION

SCALE N.T.S. 3



GROUND WIRE INSTALLATION

SCALE N.T.S. 2



CADWELD GROUNDING CONNECTIONS

SCALE N.T.S. 1

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE: 02/10/12

ISSUED FOR: 100% CD

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NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

SHEET TITLE: DETAILS AND ONE LINE DIAGRAM

SHEET NUMBER: E-2

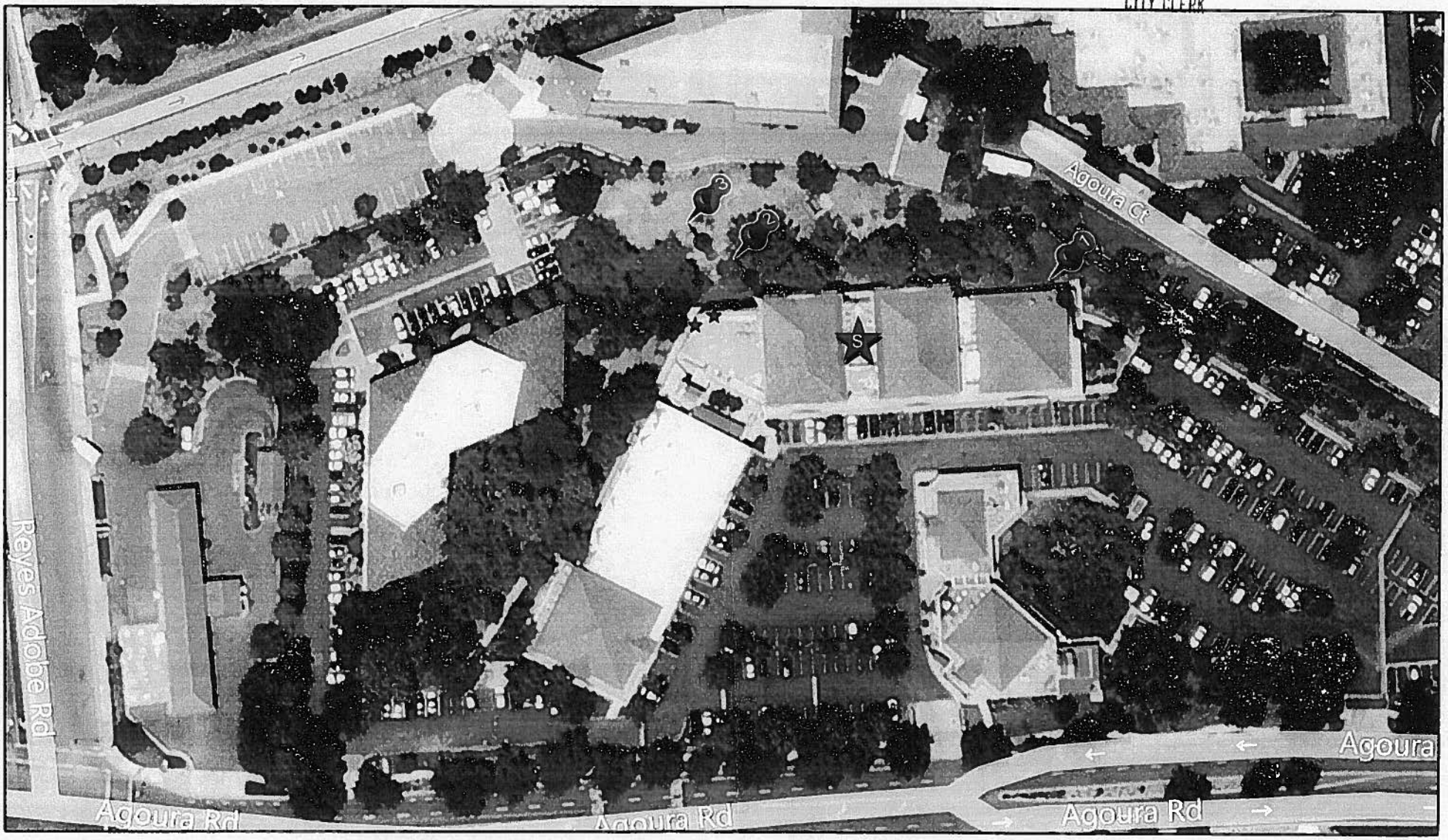
REVISION: F

VICINITY MAP - PHOTOSIMULATION VIEWPOINTS

LINDERO
LA03XC201
30125 AGOURA ROAD AGOURA HILLS, CA 91301

Sprint

SC WIRELESS ENGINEERING GROUP
5865 AVENIDA ENCINAS
CARLSBAD, CA 92008
OFFICE: (760) 795-5200



PHOTOSIMULATION VIEWPOINT 1

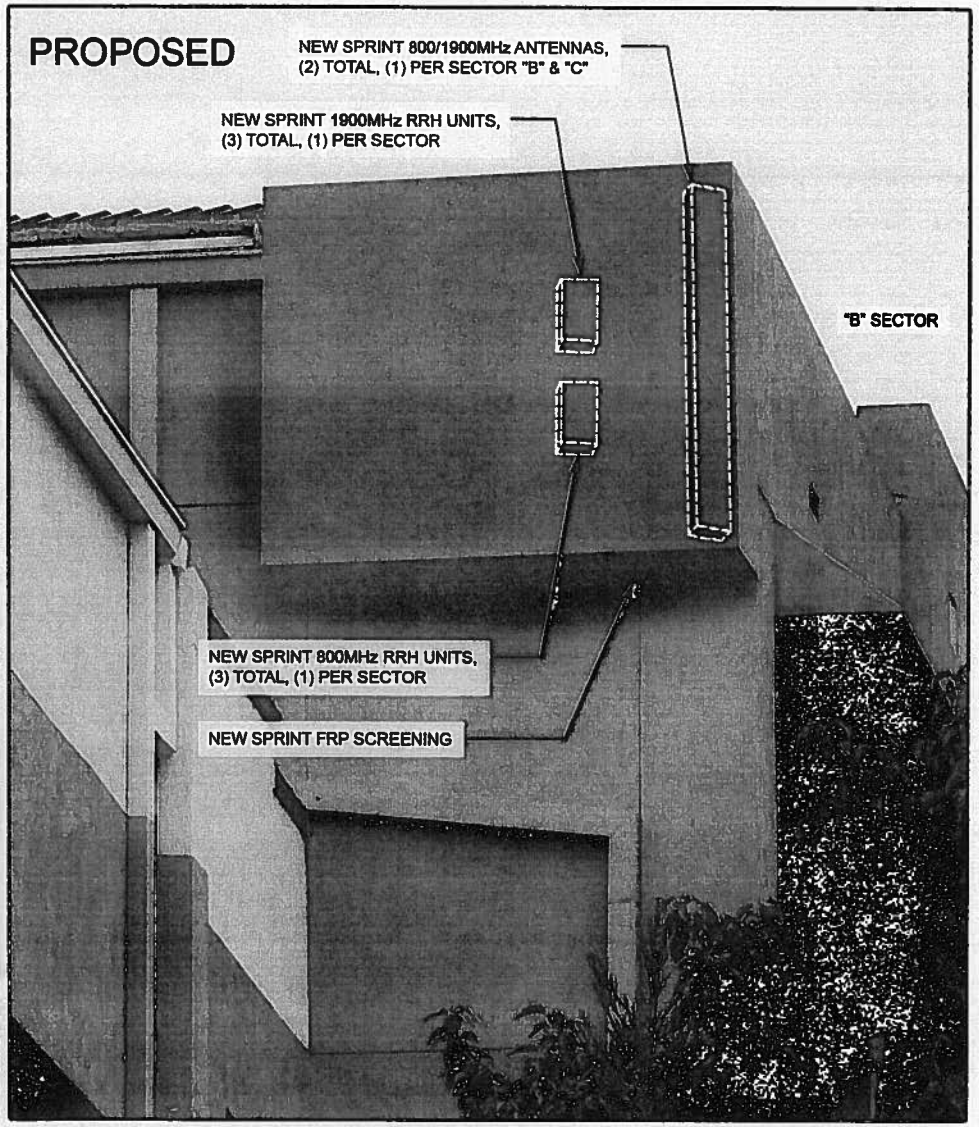
LINDERO
LA03XC201
30125 AGOURA ROAD AGOURA HILLS, CA 91301

Sprint

SC WIRELESS ENGINEERING GROUP
5665 AVENIDA ENCINAS
CARLSBAD, CA 92008
OFFICE: (760) 795-5200

EXISTING

PROPOSED



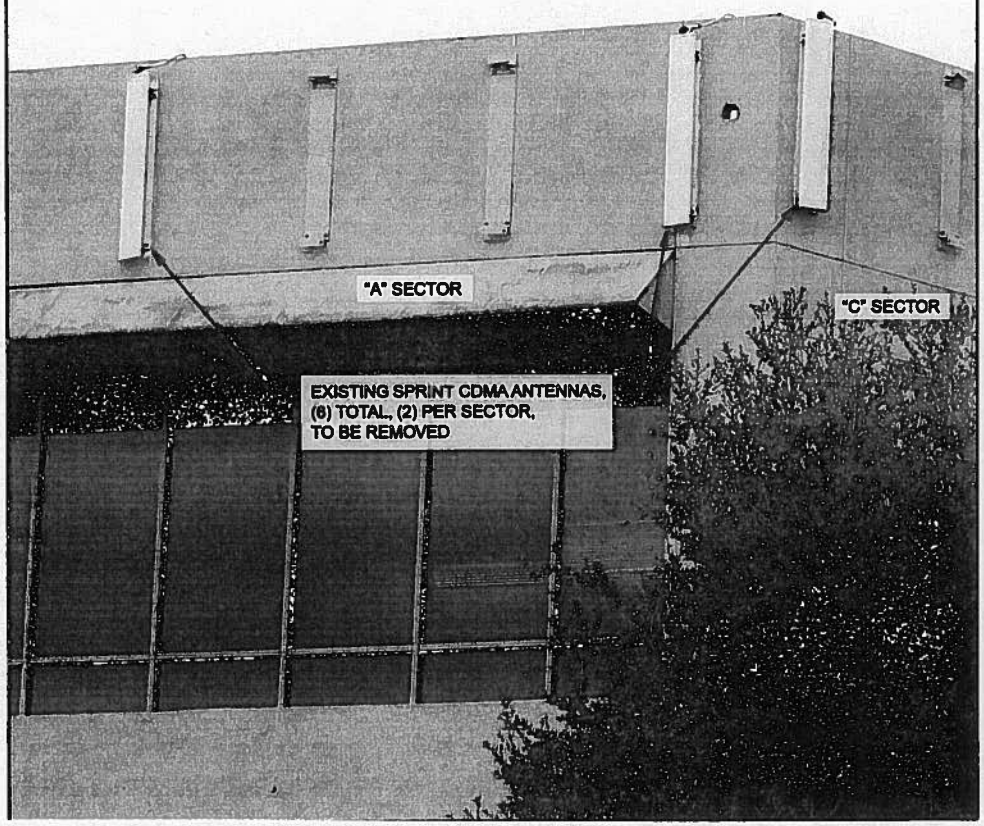
PHOTOSIMULATION VIEWPOINT 2

LINDERO
LA03XC201
30125 AGOURA ROAD AGOURA HILLS, CA 91301

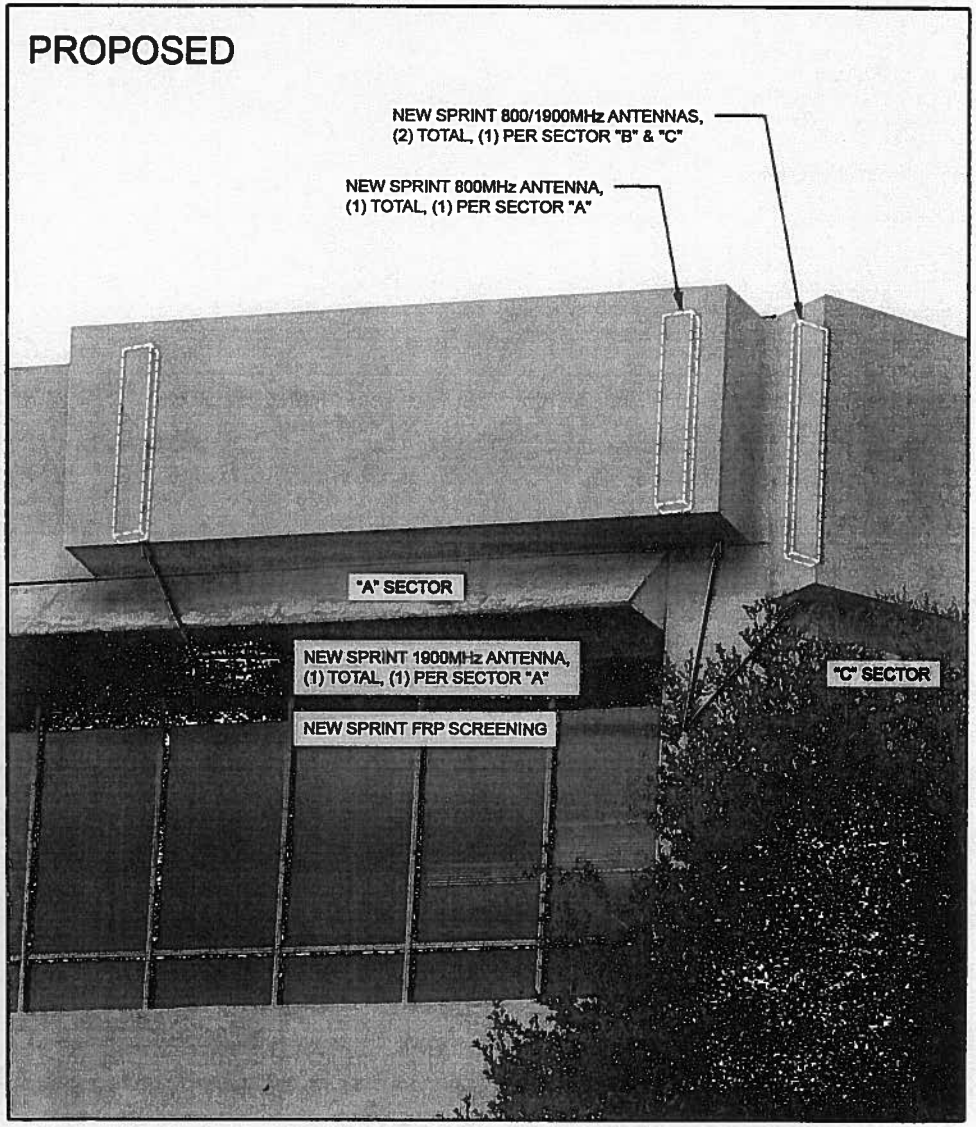
Sprint

SC WIRELESS ENGINEERING GROUP
5665 AVENIDA ENCINAS
CARLSBAD, CA 92008
OFFICE: (760) 795-5200

EXISTING



PROPOSED

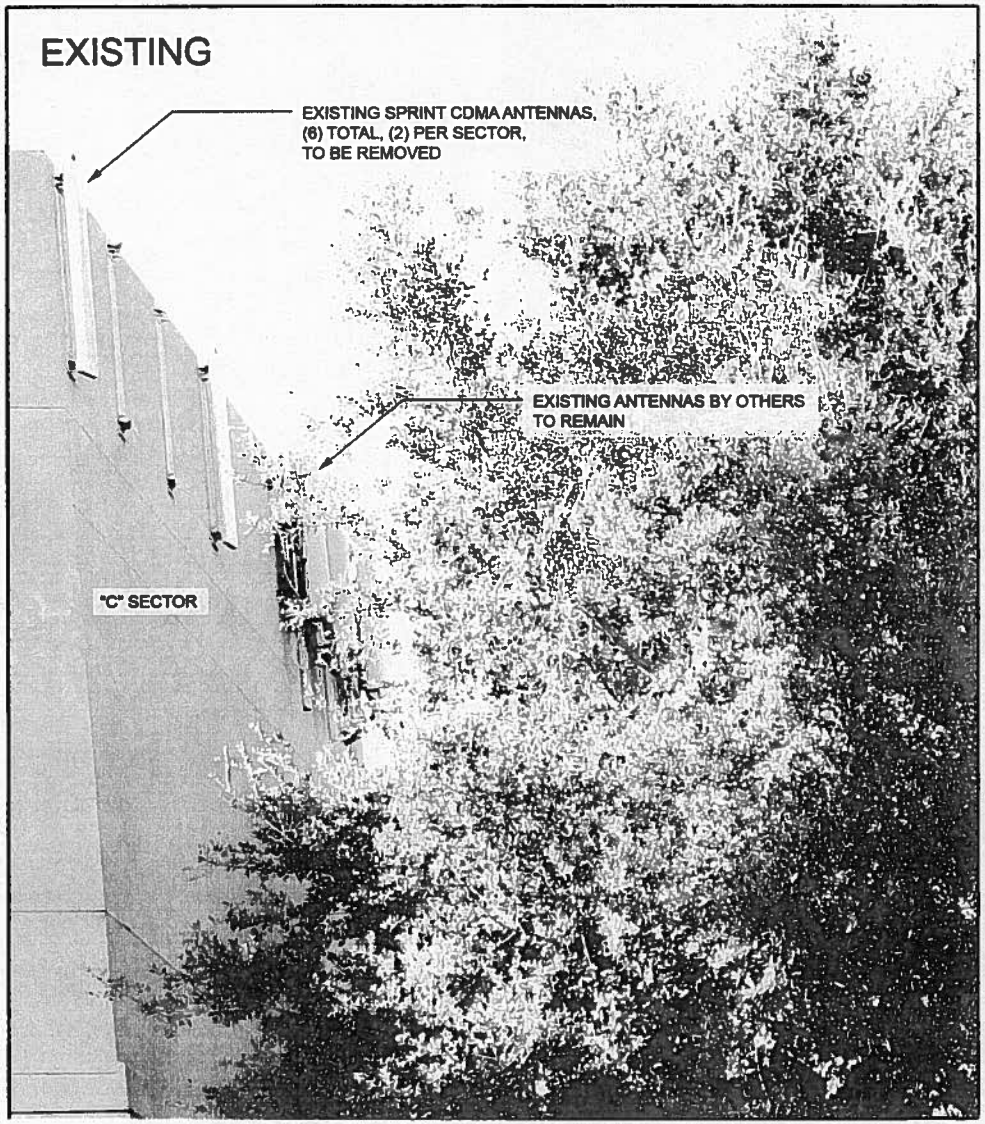


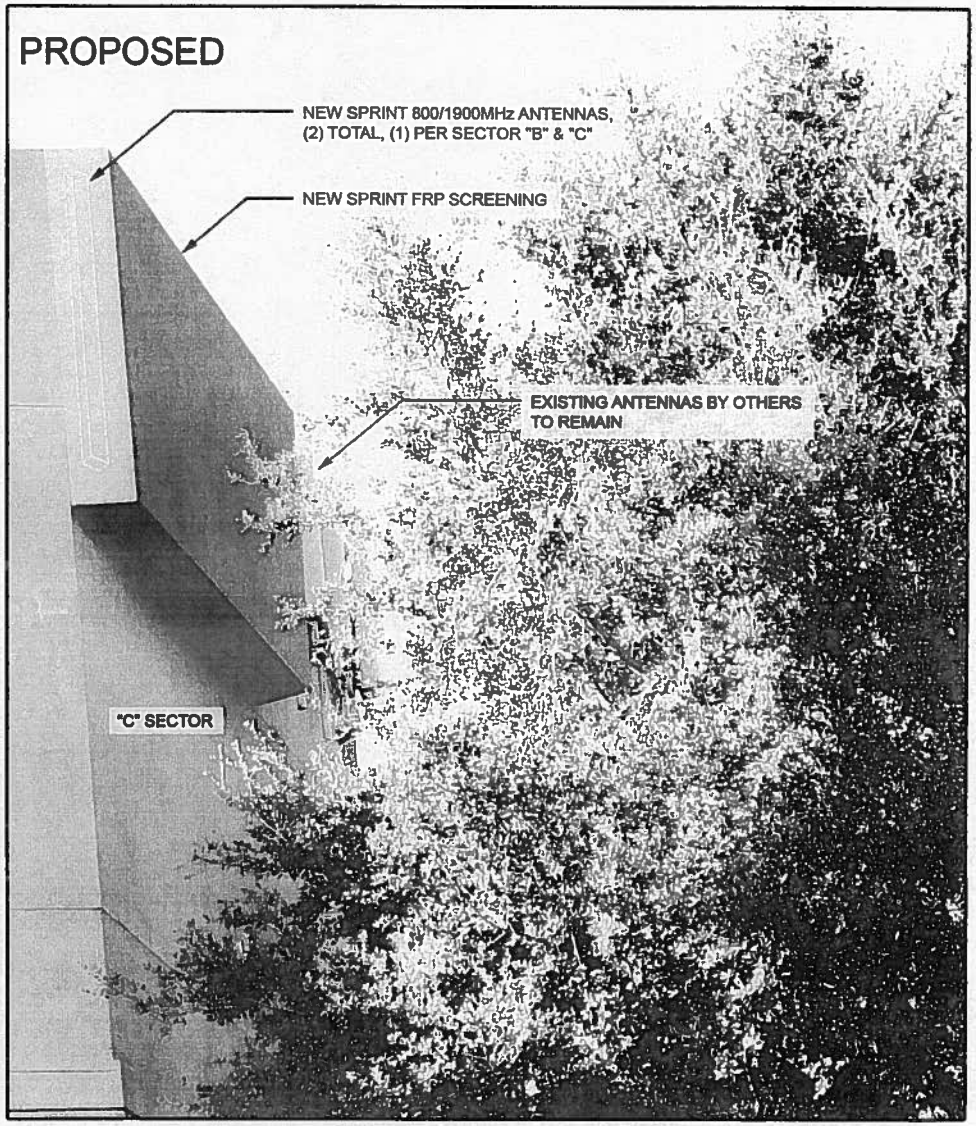
PHOTOSIMULATION VIEWPOINT 3

LINDERO
LA03XC201
30125 AGOURA ROAD AGOURA HILLS, CA 91301

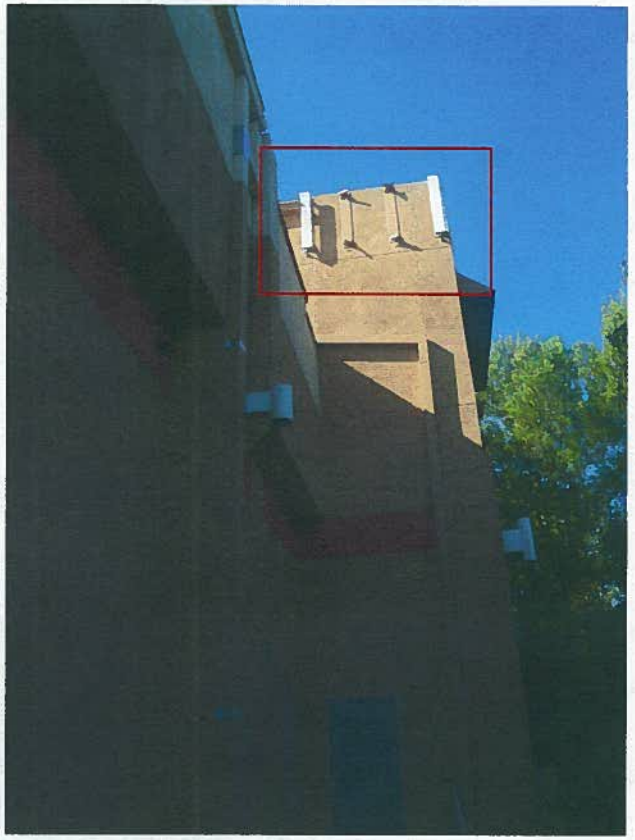
Sprint

SC
WIRELESS
ENGINEERING GROUP
5985 AVENIDA ENCINAS
CARLSBAD, CA 92008
OFFICE: (760) 795-5200





SOUTH ELEVATION



EAST ELEVATION

WEST ELEVATION

CONDITIONAL USE PERMIT
CASE NO. 12-CUP-002

Know what's below. Call before you dig.
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO WORKING DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF CALIFORNIA

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

ROOFTOP–FLUSH
30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA
LATITUDE: 34° 08' 45.311" N
34.14592000
LONGITUDE: 118° 46' 41.088" W
-118.77808000
LOS ANGELES MARKET

SHEET INDEX

CODE BLOCK

CALIFORNIA STATE CODE COMPLIANCE:

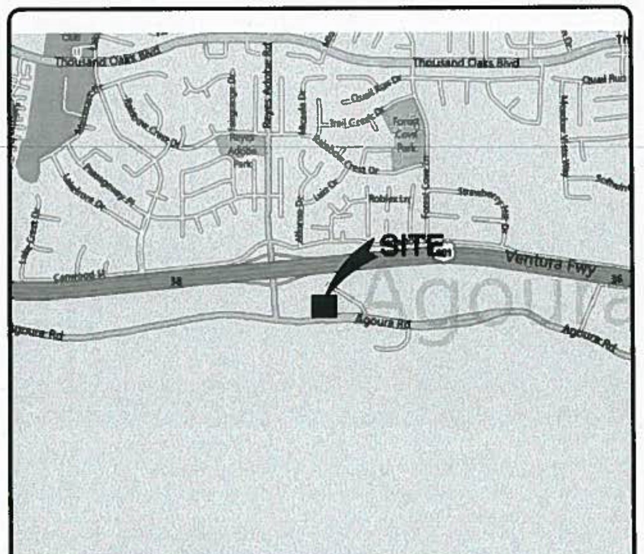
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- CALIFORNIA ADMINISTRATIVE CODE (INCL TITLE 24 & 25)
- 2010 CALIFORNIA BUILDING CODE
- CITY/COUNTY ORDINANCES
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2010 MECHANICAL CALIFORNIA CODE
- ANSI/EIA-222-F LIFE SAFETY CODE NFPA-101
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 LOCAL BUILDING CODE

ACCESSIBILITY REQUIREMENTS:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE.

VICINITY MAP



PROJECT DESCRIPTION

SPRINT PROPOSES TO MODIFY AN (E) UNMANNED TELECOMMUNICATIONS FACILITY

- REMOVE (6) (E) PANEL ANTENNAS
- INSTALL (4) (N) PANEL ANTENNAS
- INSTALL (6) (N) RRH UNITS
- REMOVE ALL (E) ANTENNA COAX
- INSTALL (3) (N) HYBRIFLEX CABLES USING (E) COAX ROUTE
- REMOVE (1) (E) MODCELL COMPACT 4.0 CABINET
- INSTALL (1) (N) MODCELL (9928) CABINET
- REMOVE (1) (E) POWER CABINET (60C)
- REMOVE (1) (E) BATTERY BACKUP UNIT CABINET (60C)
- INSTALL (1) (N) BATTERY BACK UP CABINET (60ECV2)
- INSTALL (1) (N) JUNCTION BOX

	(E) APPROVAL	(E) ON SITE	(N) MOD
# OF ANTENNAS	12	6	4
SIZE OF ANTENNAS	4'	4'	4' & 6'
EQUIPMENT	4 ROOFTOP	3 ROOFTOP	2 ROOFTOP

PROJECT TEAM

ARCHITECT:
NESTOR POPOWYCH A.I.A.
SAC WIRELESS, LLC
5875 AVENIDA ENCINAS, SUITE 142-B
CARLSBAD, CA 92008
CONTACT: DENNIS YOSHII
PH: (760) 795-5200
EMAIL: DENNIS.YOSHII@SACW.COM

STRUCTURAL:
SAC WIRELESS, LLC.
5865 AVENIDA ENCINAS, SUITE 142-B
CARLSBAD, CA. 92008

SITE ACQ PROJECT MANAGER:
ALCATEL-LUCENT
CONTACT: KEITH BARNHART
PH: (415) 404-1225

CONSTRUCTION MANAGER:
ALCATEL-LUCENT
CONTACT: KEITH BARNHART
PH: (415) 404-1225

PLANNING CONSULTANT:
SAC WIRELESS
CONTACT: JENNIFER CHESNEY
PH: (949) 235-6262

ELECTRICAL ENGINEER:
CONTACT: ROBBIE JOHNSON
PH: 818-878-4433

POWER COMPANY:
SCE
TRACY BASS
PH: 949-697-1424

TELCO COMPANY:
BRIAN BOTTS
PH: brian.botts@alcatel-lucent.com

SIGNATURE BLOCK

APPROVAL	SIGNATURE
PROJECT MANAGER	
CONSTRUCTION MANAGER	
RF ENGINEER	
SITE ACQUISITION	
PLANNING CONSULTANT	
PROPERTY OWNER	
SPRINT REP	

DRIVING DIRECTIONS

FROM SPRINT OFFICE IN IRVINE, CA:

1. DEPART COMMERCE TOWARD EL CAMINO REAL
2. TURN LEFT ONTO EL CAMINO REAL
3. TURN LEFT ONTO JAMBOREE RD
4. TAKE RAMP RIGHT AND FOLLOW SIGNS FOR I-5 NORTH
5. KEEP LEFT ONTO US-101 NORTH / SANTA ANA FWY
6. KEEP RIGHT TO STAY ON US-101 NORTH
7. AT EXIT 38, TAKE RAMP RIGHT AND FOLLOW SIGNS FOR REYES ADOBE RD
8. TURN LEFT ONTO REYES ADOBE RD
9. TURN LEFT ONTO AGOURA RD
10. ARRIVE AT 30125 AGOURA RD, AGOURA HILLS, CA 91301 (IF YOU REACH AGOURA CT, YOU'VE GONE TOO FAR)

PROJECT SUMMARY

APPLICANT:
SPRINT
310 COMMERCE
IRVINE, CALIFORNIA 92602
CONTACT: TBD
PH: TBD

PROPERTY INFORMATION:
PROPERTY OWNER: AGOURA HILLS TOWN CENTER JOINT VENTURE
ADDRESS: WFC VENTURES LP C/O WESTRUST
27001 AGOURA RD. STE. 300
CALABASAS HILLS, CA 91301
CONTACT: RICARDO CAPRETTA
PH: 818-878-9300

ZONING CLASSIFICATION: –
BUILDING CODE: 2010 CBC
CONSTRUCTION TYPE: V-N
OCCUPANCY: B
JURISDICTION: AGOURA
CURRENT USE: TELECOMMUNICATIONS FACILITY
PROPOSED USE: TELECOMMUNICATIONS FACILITY

PARCEL NUMBER(S):
2061-005-058 ⚠

LEASE AREA:
APPROX 200 SQ FT (E)

Sprint
Alcatel·Lucent
SAC WIRELESS ENGINEERING GROUP
5865 AVENIDA ENCINAS
CARLSBAD, CA 92008
www.sacw.com
760.795.5200

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
LINDERO
LA03XC201
30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

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02/10/12

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F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

CITY OF AGOURA
2013 JAN

SHEET TITLE:
TITLE SHEET

SHEET NUMBER: T-1
REVISION: F

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY CARRIER OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES AS THEY MAY BE DISCOVERED IN PLANS, DOCUMENTS, NOTES, OR SPECIFICATIONS PRIOR TO STARTING CONSTRUCTION INCLUDING, BUT NOT LIMITED BY, DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF CARRIER CONSTRUCTION PROJECT MANAGER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY CARRIER CONSTRUCTION PROJECT MANAGER.
2. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE (N) PROJECT. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR HAVING BEEN AWARDED THIS PROJECT SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT VERBALLY AND IN WRITING.
3. FOR COLLOCATION SITES: CONTACT BUILDING PROPERTY OWNER'S REPRESENTATIVE FOR PARTICIPATION IN BID WALK.
4. THE ARCHITECT HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.
5. OWNER, CONTRACTOR, AND CARRIER CONSTRUCTION PROJECT MANAGER SHALL MEET JOINTLY TO VERIFY ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION.
6. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
8. THE CONTRACTOR SHALL PROVIDE CARRIER PROPER INSURANCE CERTIFICATES NAMING CARRIER AS ADDITIONAL INSURED, AND CARRIER PROOF OF LICENSE(S) AND PE & PD INSURANCE.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
10. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
11. THE CONTRACTOR SHALL STUDY THE STRUCTURAL, ELECTRICAL, AND MECHANICAL PLANS AND CROSS CHECK THEIR DETAILS, NOTES, DIMENSIONS, AND ALL REQUIREMENTS PRIOR TO THE START OF ANY WORK.
12. THE REFERENCES ON THE DRAWINGS ARE FOR CONVENIENCE ONLY AND SHALL NOT LIMIT THE APPLICATION OF ANY DRAWING OR DETAIL.
13. ALL (E) CONSTRUCTION, EQUIPMENT, AND FINISHES NOTED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE WITH THE FOLLOWING EXCEPTIONS:
    A. PROPERTY NOTED IN WRITING TO BE RETURNED TO THE OWNER.
    B. PROPERTY NOTED IN WRITING TO BE REMOVED BY THE OWNER.
14. PRIOR TO THE POURING OF ANY NEW SLAB OVER AN (E) SLAB THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, CHASES, AND EQUIPMENT WHICH ARE TO BE INCORPORATED INTO THE NEW WORK. ALL ITEMS DESIGNATED TO BE ABANDONED SHALL BE NOTED AND DISCUSSED WITH THE OWNER AND CARRIER CONSTRUCTION MANAGER AS PART OF THE AS-BUILT DRAWING PACKAGE.
15. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THIS PROJECT SITE.
16. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING, CONSTRUCTION, AND ANY OTHER PROJECT EFFORT AS MANDATED BY THE GOVERNING AGENCY.
17. THE COMPLETED PROJECT SHALL COMPLY WITH LOCAL SECURITY CODES AND TITLE-24 ENERGY CONSERVATION REQUIREMENTS. (TITLE-24 WHEN APPLICABLE)
18. ALL RF TRANSPARENT GLASS AND GLAZING IS TO COMPLY WITH CHAPTER 54 OF THE U.S. CONSUMER SAFETY COMMISSION - SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS (42 FR 1428, CFR PART 1201) AND LOCAL SECURITY REQUIREMENTS.
19. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT (E) SITE IMPROVEMENTS, HARDSCAPING, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
20. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
21. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, DIRT, FIRE, AND FALLING OBJECTS AS REQUIRED BY THE GOVERNING AGENCIES.
22. THE CONTRACTOR IS RESPONSIBLE FOR THE STORAGE OF ALL BUILDING MATERIALS AND SHALL NOT DO SO ON PUBLIC PROPERTY WITHOUT A PERMIT FROM THE GOVERNING AGENCIES.
23. GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
24. TRADES INVOLVED IN THE PROJECT SHALL BE RESPONSIBLE FOR THEIR OWN CUTTING, FITTING, PATCHING, ETC., SO AS TO BE COORDINATED TO THE WORK OF OTHER TRADES.
25. CARRIER DOES NOT GUARANTEE ANY PRODUCTS, FIXTURES, AND/OR ANY EQUIPMENT NAMED BY A TRADE OR MANUFACTURER. GUARANTEE OR WARRANTY THAT MAY BE IN EFFECT IS DONE SO THROUGH THE COMPANY OR MANUFACTURER PROVIDING THE PRODUCT, FIXTURE, AND/OR EQUIPMENT ONLY: UNLESS SPECIFIC RESPONSIBILITY IS ALSO PROVIDED BY THE CONTRACTOR/SUBCONTRACTOR IN WRITTEN FORM.
26. WHEN APPLICABLE, CONTRACTOR IS RESPONSIBLE TO CALL, COORDINATE AND/OR MAKE ARRANGEMENTS FOR RIGHT-OF-WAY AND/OR PRIVATE PROPERTY ACCESS BASED ON SPECIFIC SITE REQUIREMENTS.
27. CONTRACTORS TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO CARRIER ALONG WITH REDLINED CONSTRUCTION SET.
28. CONTRACTOR SHALL DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (REDLINING) THE APPROVED CONSTRUCTION SET AND SUBMITTING THE REDLINED ALONG WITH PHOTOGRAPHS PER CARRIER REQUIREMENTS.
29. GENERAL CONTRACTOR IS TO COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED. CONTRACTOR TO REPORT POWER INSTALLATION COORDINATION SOLUTION(S) TO NETWORK CARRIER REPRESENTATIVE, PROJECT CONSTRUCTION MANAGER AND ARCHITECT.
30. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY CARRIER CONSTRUCTION MANAGER.
31. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPETE AND ACCEPTED UNDER THIS CONTRACT; UNLESS NOTED OTHERWISE IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR. (EXCEPTION) THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, COSIGNED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN A WATERTIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.
32. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE SAFETY OF THE OWNER'S EMPLOYEES AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
33. CARRIER WILL REVIEW AND APPROVE SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT. CARRIER PROJECT APPROVAL OF A SEPARATE ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
34. ALL ANTENNAS MOUNTED ON ROOF SUPPORT FRAMES TO BE PROVIDED BY CARRIER COMMUNICATIONS.
35. CONTRACTOR TO REPAIR ALL GROUND SURFACES WITHIN THE CONSTRUCTION AREA AS NECESSARY TO PROVIDE A UNIFORM SURFACE AND MAINTAIN (E) SURFACE DRAINAGE SLOPES.
36. CONTRACTOR TO REPLACE LANDSCAPE VEGETATION THAT WAS DAMAGED DUE TO CONSTRUCTION, AND TO MODIFY REMAINING IRRIGATION LINES TO OPERATING CONDITION, PROVIDING FULL COVERAGE TO IMPACTED AREAS.
37. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE PENETRATION OF (E) ROOFING MATERIALS OCCUR, THE GENERAL CONTRACTOR SHALL COORDINATE WITH BUILDING OWNER AND BUILDING ROOFING CONTRACTOR OF RECORD FOR INSTALLATION, PATCH, REPAIR OR ANY AUGMENTATION TO THE ROOF, AND HAVE THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S WARRANTY FOR MOISTURE PENETRATION OR AND OTHER FUTURE BREACH OF ROOFING INTEGRITY.
38. IN THE CASE OF ROOFTOP SOLUTIONS WITH THE INSTALLATION OF ANTENNAS WITHIN CONCEALED RF TRANSPARENT SCREENS, MOUNTED ON SUPPORT FRAMES OR TRIPODS, THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE FRP DESIGNER/FABRICATOR TO ENSURE THAT THE FINAL FRP SHROUD IS SIMULATING (IN APPEARANCE) DESIGNATED (E) EXTERIOR BUILDING FACADE MATERIALS, TEXTURES, AND COLORS. THE CONTRACTOR SHALL FURTHERMORE ENSURE THE USE OF COUNTERSUNK FASTENERS IN ALL FRP CONSTRUCTION. WHEN PHOTOSIMULATIONS ARE PROVIDED, THE CONTRACTOR SHALL ENSURE THAT FINAL CONSTRUCTION REPRESENTS WHAT IS INDICATED IN PHOTOSIMULATION. SHOP DRAWINGS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR, CONSTRUCTION COORDINATOR, AND ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
39. CONTRACTOR & SUBCONTRACTOR SHALL USE STAINLESS STEEL METAL LOCKING TIES FOR ALL CABLE TRAY TIE DOWNS AND ALL OTHER GENERAL TIE DOWNS (WHERE APPLICABLE). PLASTIC ZIP TIES SHALL NOT BE PERMITTED FOR USE ON CARRIER PROJECTS. RECOMMENDED MANUFACTURER SHALL BE: PANDUIT CORP. METAL LOCKING TIES MODEL NO. MLT4S-CP UNDER SERIES-304 (OR EQUAL). PANDUIT PRODUCT DISTRIBUTED BY TRIARC.
40. THIS FACILITY IS AN UNMANNED CELLULAR TELEPHONE EQUIPMENT FACILITY. THE OCCUPANCY CLASSIFICATION IS B [2007 CBC, TITLE 24, PART 2, VOLUME 1, SECTION 311.3, AND SECTION 307.1 EXCEPTION #11].
41. THIS FACILITY IS EXEMPT FROM DISABLED ACCESSIBILITY REQUIREMENTS PER 2007 CBC SECTION 1105B.3.4 EXCEPTION #1 THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
42. THE CONTRACTOR SHALL VERIFY ALL (E) CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING THEIR BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
43. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
44. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL (E) UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
45. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR (E) SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
46. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/MARKED DRAWINGS TO THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
47. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
48. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
49. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C. AND ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, AND 24. THE MOST RESTRICTIVE CODE SHALL GOVERN.
50. THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
51. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
52. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
53. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES, FEES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. HE/SHE MUST PROVIDE E911 ADDRESS TO SPRINT WIRELESS. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
54. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
55. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
56. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
57. NEW CONSTRUCTION ADDED TO (E) CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
58. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA. [2007 CFC SECTION 906-1-1 & 7 AND SECTION 906.3(1)]
59. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
60. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
61. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT CONTINUOUSLY AND PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
62. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION AS MANDATED BY THE GOVERNING AGENCY.
63. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT RESPONSIBLE FOR THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.
64. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, 115, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL ORDINANCES TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
65. THE CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
66. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THAT REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
67. GROUNDING SHALL COMPLY WITH SPRINT/NEXTEL GROUNDING STANDARDS, LATEST EDITION AND COMPLY WITH SPRINT/NEXTEL GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT, THEY SHALL GOVERN.
68. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF TEMPORARY LIGHTING AND MARKING ARE REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.
69. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
70. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE
71. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 24 HOURS OF NOTICE SHOULD BE GIVEN AND THE BUILDING INSPECTION DEPARTMENTS HAVE REQUESTED THAT GROUPS OF TWO OR THREE SITES BE SCHEDULED AT ONE TIME IF POSSIBLE.
72. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS AND TOWER DRAWINGS/ANALYSIS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF THE TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL.
73. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
74. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE KEPT TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO TREES AND VEGETATION OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR.
75. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS, ETC., BETWEEN THE WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.

SYMBOLS:

- GRID REFERENCE
- DETAIL REFERENCE
- ELEVATION REFERENCE
- SECTION REFERENCE
- CENTERLINE
- PROPERTY/LEASE LINE
- MATCH LINE
- WORK POINT
- GROUND CONDUCTOR
- T — TELEPHONE CONDUIT
- E — ELECTRICAL CONDUIT
- A — COAXIAL CABLE
- O/H — OVERHEAD SERVICE CONDUCTORS
- GROUT OR PLASTER
- (E) BRICK
- (E) MASONRY
- CONCRETE
- EARTH
- GRAVEL
- PLYWOOD
- SAND
- WOOD CONTINUOUS
- WOOD BLOCKING
- STEEL
- (N) NEW
- (E) EXISTING
- NEW ANTENNA
- (E) ANTENNA
- GROUND ROD
- GROUND BUS BAR
- MECHANICAL GRND. CONN.
- CADWELD
- GROUND ACCESS WELL
- E ELECTRIC BOX
- T TELEPHONE BOX
- LIGHT POLE
- FND. MONUMENT
- SPOT ELEVATION
- SET POINT
- REVISION

Sprint

Alcatel-Lucent

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ISSUE DATE:

02/10/12

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
C	02/02/12	100% CD	AMF
D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
1	10/9/12	CITY COMMENTS	XS
2	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

LICENSED ARCHITECT — NASSER POPOWICH — No. C-27496 Ren. 4-30-13 — STATE OF CALIFORNIA

SHEET TITLE:

GENERAL NOTES & SYMBOLS

SHEET NUMBER: T-2

REVISION: F

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COMPLY WITH THESE STANDARDS UNLESS OTHERWISE REQUIRED BY APPLICABLE CODES

*GENERAL CONTRACTOR SHALL COMPLY WITH OSHA AND SPRINT STANDARD SAFETY AND CONSTRUCTION PROCEDURES.

1.0 CONSTRUCTION TO CONFORM TO SPRINT NEXTEL INTEGRATED CONSTRUCTION STANDARDS

1.1 PURPOSE AND INTENT
- A. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH. SHOULD THERE BE ANY DISCREPANCIES BETWEEN REQUIREMENTS SHOWN IN BOTH, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
- B. THE INTENTION OR THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
- C. THE PURPOSE OF THE SPRINT WIRELESS CONSTRUCTION SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF MATERIALS REQUIRED TO COMPLETE THE WORK.

1.2 CONFLICTS
- A. VERIFY ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIAL OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS OR DIMENSIONS SHOWN ON PLANS. SUBMIT NOTICE OF ANY DISCREPANCY IN DIMENSIONS OR OTHERWISE TO SPRINT WIRELESS FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- B. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST OR OF DIFFICULTIES OF CONDITIONS THAT MAY BE ENCOUNTERED, OR OF ANY OTHER RELEVANT MATTER CONCERNING THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS GOVERNING THE WORK.

1.3 CLEANING

KEEP THE SITE FREE FROM ACCUMULATION OF WASTE AND RUBBISH CAUSED BY EMPLOYEES AT THE COMPLETION OF THE WORK. REMOVE ALL WASTE AND NON-CONSTRUCTION MATERIAL INCLUDING ALL CONTRACTOR TOOLS, SCAFFOLDING AND SURPLUS MATERIAL AND LEAVE SITE CLEAN AND READY FOR USE.

1.4 CODES

CONTRACTOR SHALL. BE RESPONSIBLE FOR FOLLOWING ALL LAWS, REGULATIONS AND RULES PROMULGATED BY FEDERAL STATE AND LOCAL AUTHORITIES WITH JURISDICTION OVER THE SITE. THIS RESPONSIBILITY IS IN EFFECT REGARDLESS OF WHETHER THE LAW, ORDINANCE, REGULATION OR RULE IS MENTIONED IN THESE SPECIFICATIONS.

1.5 LICENSING

HAVE AND MAINTAIN A VALID CONTRACTORS LICENSE FOR THE LOCATION IN WHICH THE WORK IS TO BE PERFORMED. FOR THAT LICENSE INDIVIDUAL TRADES, THE TRADESMAN OR SUBCONTRACTORS PERFORMING THOSE TRADES SHALL BE LICENSED. RESEARCH AND COMPLY WITH LICENSING LAWS, PAY LICENSE FEES, AND SELECT AND INFORM SUBCONTRACTORS REGARDING THESE LAWS.

1.6 OSHA

FOLLOW ALL APPLICABLE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS, AND STATE LAWS BASED IN THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT. THESE REGULATIONS INCLUDE BUT ARE NOT LIMITED TO REGULATIONS DEALING WITH TOWER CONSTRUCTION AND SAFETY, EXCAVATIONS AND TRENCHING, AND WORK IN CONFINED SPACES. ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT All TIMES DURING CONSTRUCTION.

1.7 PHOTOS

PROVIDE PHOTOGRAPHIC EVIDENCE OF ALL FOUNDATION INSTALLATION, GROUNDING AND TRENCHING AFTER PLACEMENT OF UTILITIES PRIOR TO BACKFILL.

1.8 BUILDING PERMITS

SPRINT WIRELESS WILL SUBMIT CONSTRUCTION DOCUMENTS TO THE JURISDICTIONAL AUTHORITY FOR PLAN CHECK AND REVIEW. CONTRACTOR WILL SUBMIT LICENSING AND WORKMAN'S COMPENSATION INFORMATION TO THE JURISDICTION AS REQUIRED TO OBTAIN THE BUILDING PERMIT. CONTRACTOR SHALL COORDINATE AND SCHEDULE REQUIRED INSPECTIONS AND POST REQUIRED PERMITS AT THE JOB SITE. COMPLY WITH SPECIFIC PROJECT-RELATED REQUESTS AND SUGGESTIONS MADE BY BUILDING INSPECTOR AND INFORM CONSTRUCTION MANAGER OF ANY SUCH WORK THAT MAY BE BEYOND THE SCOPE OF THE CONTRACT OR DEVIATE FROM THE CONSTRUCTION DOCUMENTS. SPRINT WIRELESS WILL REIMBURSE THE CONTRACTOR FOR FEES FOR PLAN REVIEW, BUILDING PERMIT, CONNECTIONS AND INSPECTION.

1.9 ZONING REGULATIONS AND CONDITIONAL USE PERMITS

SPRINT WIRELESS WILL SUBMIT FOR AND OBTAIN ALL ZONING AND CONDITIONAL USE PERMITS. SOME USE PERMITS MAY HAVE SPECIFIC REQUIREMENTS RELATED TO THE CONSTRUCTION SUCH AS NOISE REGULATIONS, HOURS OF WORK, ACCESS LIMITATIONS, ETC. THE CONSTRUCTION MANAGER WILL INFORM THE CONTRACTOR OF THESE REQUIREMENTS AT THE PRE-BID MEETING OR AS SHOWN IN CONSTRUCTION DOCUMENTS.

1.10 FM PERMIT AND TOWER LIGHTING

REFER TO CONSTRUCTION DOCUMENTS AND CONSTRUCTION MANAGER FOR FAA AND STATE LIGHTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE TEMPORARY FM APPROVED LIGHTING UNTIL PERMANENT LIGHTING IS OPERATIONAL

1.11 TOWER SECURITY

TOWER MUST BE FENCED, TEMPORARILY OR PERMANENTLY WITHIN 24 HOURS OF ERECTION. DO NOT ALLOW THE GATE ACCESSING THE TOWER AREA TO REMAIN OPEN OR UNATTENDED AT ANY TIME FOR ANY REASON. KEEP THE GATE CLOSED AND LOCKED WHEN NOT IN USE.

1.12 SITE CONTROL
- A. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENT AND CONTROL OF EROSION AT THE SITE. ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO SPRINT WIRELESS.
- B. THE CONTRACTOR IS TO MAINTAIN ADEQUATE ROOF DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND ON ANY PORTION OF THE ROOF. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF ROOF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE.
- C. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY THE CONSTRUCTION MANAGER AND IN ACCORDANCE WITH JURISDICTIONAL AUTHORITIES.

2.0 SITE PREPARATION

2.1 SCOPE OF WORK INCLUDES:
- A. PROTECTION OF EXISTING TREES, VEGETATION AND LANDSCAPING MATERIALS WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
- B. TRIMMING OF EXISTING TREES AND VEGETATION AS REQUIRED FOR PROTECTION DURING CONSTRUCTION ACTIVITIES.
- C. CLEARING AND GRUBBING OF STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES, AND SITE IMPROVEMENTS.
- D. TOPSOIL STRIPPING AND STOCKPILING.
- E. TEMPORARY EROSION CONTROL, SILTATION CONTROL AND DUST CONTROL CONFORMING TO LOCAL REQUIREMENTS AS APPLICABLE.
- F. TEMPORARY PROTECTION OF ADJACENT PROPERTY, STRUCTURES, BENCHMARKS AND MONUMENTS.
- G. PROTECTION AND TEMPORARY RELOCATION, STORAGE AND RE-INSTALLATION OF DUSTING FENCING AND OTHER SITE IMPROVEMENTS SCHEDULED FOR REUSE.
- H. REMOVAL AND LEGAL DISPOSAL OF CLEARED MATERIALS.

2.2 PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS NOTED III CONSTRUCTION DOCUMENTS.)
- A. MATERIALS USED FOR TREE PROTECTION, EROSION CONTROL, SILTATION CONTROL AND DUST CONTROL AS SUITABLE FOR SPECIFIC SITE CONDITIONS.

3.0 COMPACTION
- A. COMPACT BACKFILL TO A 95 PERCENT COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 OR WITHIN PLUS OR MINUS 3 PERCENT OF OPTIMUM MOISTURE CONTENT.
- B. IF REQUIRED COMPACTION DENSITY HAS NOT BEEN OBTAINED, REMOVE THE BACKFILL FROM THE TRENCH OR STRUCTURE. REPLACE WITH APPROVED BACKFILL AND RECOMPACT AS SPECIFIED.
- C. ANY SUBSEQUENT SETTLEMENT OF TRENCH OR STRUCTURE BACKFILL DURING MAINTENANCE PERIOD SHALL BE CONSIDERED THE RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY CORRECTED.

4.0 CHAIN LINK FENCES AND GATES

4.1 GENERAL
- A. PROVIDE CHAIN LINK FENCES AND GATES AS COMPLETE UNITS BY A SINGLE SUPPLY SOURCE INCLUDING NECESSARY ERECTION ACCESSORIES, FITTINGS AND FASTENERS.

4.2 PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS WITHIN CONSTRUCTION DOCUMENTS)
- A. COMPOUND FABRIC 84 INCHES HIGH AND OVER WITH 2-INCH MESH SHALL BE KNUCKLED AT ONE SELVAGE AND TWISTED AT THE OTHER.
- B. STEEL FABRIC:
  COMPLY WITH CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) PRODUCT MANUAL. FURNISH ONE PIECE OF FABRIC WIDTHS. WIRE SIZE INCLUDES ZINC OR ALUMINUM COATING.
  1. SIZE: 2-INCH MESH 9 GAUGE (D.148-INCH DIAMETER) WIRE.
  2. GALVANIZED STEEL FINISH: ASTM A 392. CLASS 2. WITH A MINIMUM 2.0 OZ. ZINC PER SQ. FT. OF UNCOATED WIRE SURFACE.
- C. FRAMEWORK AND ACCESSORIES:
  1. GENERAL REQUIREMENTS: EXCEPT AS INDICATED OTHERWISE CONFORM TO THE CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) PRODUCT MANUAL INDUSTRIAL STEEL GUIDE FOR FENCE RAILS, POSTS, GATES AND ACCESSORIES INCLUDING TABLE II.
  2. STRENGTH REQUIREMENTS FOR POSTS AND RAILS CONFORMING TO ASTM F 1043.
  3. TYPE 1 PIPE HOT-DIPPED GALVANIZED STEEL PIPE CONFORMING TO ASTM F 1083. PLANE ENDS, STANDARD WEIGHT (SCHEDULE 40) WITH NOT LESS THAN 18 OZ. ZINC PER SQ. FT. OF SURFACE AREA COATED.
  4. FILLINGS: COMPLY WITH ASTM F 526 MILL FINISHED ALUMINUM OR GALVANIZED IRON STEEL TO COMPLY WITH MANUFACTURER'S REQUIREMENTS.
  5. TOP RAIL MANUFACTURERS LONGEST LENGTHS, WITH EXPANSION TYPE COUPLINGS, APPROXIMATELY 6 INCHES LONG, FOR EACH JOINT. PROVIDE MEANS FOR ATTACHING TOP RAIL SECURELY TO EACH GATE CORNER, PULL AND END POST.
- D. GALVANIZED STEEL 11/4 INCH NPS (1.66 INCH OD) TYPE I OR II STEEL PIPE OR 1.625 NCH x 1.25 INCH ROLL-FORMED C SECTIONS WEIGHING 1.35 LBS. PER FT.
- E. SWING GATES:
  COMPLY WITH ASTM F 900. PROVIDE HARDWARE AND ACCESSORIES FOR EACH GATE. GALVANIZED PER ASTM A 153, AND IN ACCORDANCE WITH THE FOLLOWING:
  1. HINGES: NON LIFT- OFF TYPE. OFFSET TO PERMIT ISO DEG. GATE OPENING.
  2. LATCH: MTS MULTI-LOCKING DEVICE MT-C6477 OR APPROVED EQUAL.
  3. KEEPER: PROVIDE KEEPER FOR VEHICLE GATES, WHICH AUTOMATICALLY ENGAGES GATE LEAF AND HOLDS IT IN OPEN POSITION UNTIL MANUALLY RELEASED.
- F. CONCRETE:
  PROVIDE CONCRETE CONSISTING OF PORTLAND CEMENT, ASTM C 150, AGGREGATES ASTMC 33, AND CLEAN WATER. MIX MATERIALS TO OBTAIN CONCRETE WITH A MINIMUM OF 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.

5.0 LANDSCAPING
- A. FURNISH, INSTALL AND MAINTAIN LANDSCAPE WORK AS SHOWN AND OR REQUIRED WITHIN THE CONSTRUCTION DOCUMENTS OR AS SPECIFIED IN THE SPRINT WIRELESS CONSTRUCTION SPECIFICATIONS.

6.0 CONCRETE FORMWORK
- A. FORMS: SMOOTH AND FREE OF SURFACE IRREGULARITIES. UTILIZE FORM RELEASE AGENTS.
- B. CHAMFER: EXPOSED EDGES OF ALL TOWER FOUNDATIONS SHALL RECEIVE A 3/4" BY 3/4" 45 DEGREE CHAMFER. OTHER EXPOSED EDGES SHALL RECEIVE A TOOLED RADIUS FINISH.
- C. UPON COMPLETION, REMOVE ALL FORMS, INCLUDING THOSE CONCEALED OR BURIED.
- D. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

7.0 CONCRETE REINFORCEMENT

REFER TO STRUCTURAL DRAWINGS FOR ALL REQUIREMENTS.

8.0 CAST IN PLACE CONCRETE

FOR STRUCTURAL CONCRETE (FOOTINGS, FOUNDATIONS. ETC.), REFER TO STRUCTURAL DRAWINGS FOR REQUIREMENTS. FOR ANY MISCELLANEOUS CONCRETE, REFER TO SPECIFICATION BOOK OR OBTAIN REQUIREMENTS FROM CONSTRUCTION MANAGER.
- A. ALL CONCRETE SHALL COMPLY WITH ASTM C94 UNLESS NOTED OTHERWISE.
- B. MINIMUM COMPRESSIVE STRENGTH (F'C) AT 28 DAYS: 4000 PSI FOR TOWER FOUNDATION AND 3500 PSI FOR ALL OTHER CONCRETE UNLESS SPECIFIED IN CONSTRUCTION DOCUMENTS.
- C. AIR ENTRAINMENT: PROVIDE 4 TO 8% AIR ENTRAINMENT FOR ALL CONCRETE SUBJECT TO FREEZE-THAW CYCLE.
- D. CONCRETE TESTING: ALL FOUNDATION CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY APPROVED BY THE CONSTRUCTION MANAGER. ALL STRUCTURAL-TOWER FOUNDATION CONCRETE MUST BE TESTED. EQUIPMENT OR BUILDING PADS ARE NOT REQUIRED TO BE TESTED, UNLESS OTHERWISE NOTED BY CONSTRUCTION MANAGER. PROVIDE A MINIMUM OF 5 CYLINDERS (2-7-DAY, 2-28-DAY, 1- SPARE) FOR EACH DAYS POUR, OR FOR EVERY 50 YARDS PLACED, WHICHEVER 15 GREATER. ADDITIONAL TESTS OR CYLINDERS MAY BE REQUIRED BY CONSTRUCTION MANAGER. A SLUMP, AIR, AND TEMPERATURE TEST SHALL BE PERFORMED FOR EACH SET OF CYLINDERS CAST. PREFERABLY, TESTS SHALL BE PERFORMED AT THE LOCATION OF ANCHOR BOLTS (PIERS - FOR MAT & PIERS, CAISSONS - TOP1/3 OF CAISSON). TESTS SHALL ALSO BE REQUIRED FOR CONCRETE CONSIDERED BEING LESS THAN DESIRABLE BY CONCRETE SPECIFICATION STANDARDS. THE TESTING AGENCY HAS THE AUTHORITY TO NOT ACCEPT CONCRETE MEETING THESE SPECIFICATIONS FOR SPRINT WIRELESS. THE CONTRACTOR IS RESPONSIBLE FOR ANY CONCRETE NOT MEETING THESE STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE TESTING AGENCY A MINIMUM OF 24 HOURS IN ADVANCE OF EACH FOUNDATION POUR. TEST REPORTS SHALL BE FORWARDED TO SPRINT CONSTRUCTION MANAGER WITHIN 24 HOURS OF LAB TEST.
- E. VIBRATE ALL CONCRETE USING SUFFICIENT HIGH FREQUENCY LOW AMPLITUDE MECHANICAL IMMERSION TYPE VIBRATORS. INSERT VIBRATORS IN CONCRETE AT REGULAR INTERVALS AND OVER ENTIRE SURFACE TO SOLIDLY FILL CONCRETE MECHANICAL IMMERSION TYPE VIBRATORS. INSERT VIBRATORS IN CONCRETE AT REGULAR INTERVALS AND OVER ENTIRE SURFACE TO SOLIDLY FILL CONCRETE AROUND AND BETWEEN REINFORCEMENT BARS AND INTO CORNERS AND IRREGULARITIES. VIBRATE THOROUGHLY THROUGH EACH LIFT TO THE PREVIOUS LIFE REVERBERATION AS LATE AS THE RUNNING VIBRATOR WILL SINK THROUGH UPPER LAYERS OF ITS WEIGHT IS RECOMMENDED. DISCONTINUE VIBRATION WHEN RISING ENTRAPPED AIR BUBBLES STOP BREAKING THE LEVELING SURFACE. DO NOT OVER VIBRATE AS THIS MAY CAUSE SEGREGATION.
- F. FINISHING EXPOSED CONCRETE SURFACES:
  1. THESE PROVISIONS APPLY TO ALL EXPOSED AND ALL FORMED CONCRETE, EXTERIOR OR INTERIOR. UNLESS SPECIFICALLY DETAILED OTHERWISE, PERFORM PROCEDURES PRIOR TO APPLICATION OF ANY CURING COMPOUNDS.
  2. ALL SURFACES: THOROUGHLY CLEAN OFF ALL STAINS, SPATTER AND LOOSE MATERIAL.
  3. FINS, RIDGES AND HIGH SPOTS: HONE SMOOTH WITH ABRASIVE POWER GRINDERS WHILE CONCRETE IS GREEN, IMMEDIATELY AFTER FORM REMOVAL.
  4. FORM TIE HOLES AND DEEP DEPRESSIONS: FLUSH THOROUGHLY WITH CLEAN WATER AND TAMP TO OVERFULL WITH DRYPACK. CURE 10 DAYS AND HONE FLUSH AND SMOOTH.
  5. ROCK POCKETS, HONEYCOMB, SAND STREAKS, DEBRIS AND VOIDS: CUT OUT AT LEAST 1 INCH DEEP WITH SIDES PERPENDICULAR TO SURFACE. FLUSH THOROUGHLY WITH CLEAN WATER, COAT SURFACE WITH NEAT CEMENT PASTE AND TAMP TO OVERFULL WITH DRYPACK IN AT LEAST TWO LAYERS. CURE FOR 10 DAYS AND HONE FLUSHED AND SMOOTH.
- G. CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF ALL ELECTRICAL OPENINGS AND EQUIPMENT/BUILDING PADS WITH THE ELECTRICAL DRAWINGS AND SHOP DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITIES. CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON STRUCTURAL DRAWINGS. PRIOR TO POURING CONCRETE THE INDEPENDENT TESTING AGENCY SHALL INSPECT ALL FOUNDATION STEEL AND FOUNDATION SUBGRADE.

9.0 STRUCTURAL STEEL

MEET OR EXCEED MANUFACTURER'S RECOMMENDATIONS.
- A. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).
- B. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL, CONFORMING TO ASTM A-615, GRADE 60, DEFORMED.
- C. HEATING AND WELDING OF BARS IS PROHIBITED WITH THE EXCEPTION OF WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER.
- D. ALL REINFORCEMENT BARS TO BE FREE FROM LOOSE RUST AND SCALE.
- E. UNLESS OTHERWISE NOTED, ALL REINFORCEMENT SHALL HAVE A MINIMUM CONCRETE COVERAGE OF 3 INCHES. THIS MAY REQUIRE SPACERS AND CHAIRS AS REQUIRED BY TESTING AGENCY OR CONSTRUCTION MANAGER.
- F. SPLICES IN REINFORCEMENT STEEL ARE PROHIBITED, UNLESS APPROVED BY CONSTRUCTION MANAGER. ALL SPLICES MUST THEN MEET ALL APPLICABLE ASTM STANDARDS FOR SPLICING.

10.0 GROUNDING

MEET ALL APPLICABLE CODES, REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND SPRINT WIRELESS CONSTRUCTION SPECIFICATIONS.

GENERATOR SPECIFICATIONS
1. SWITCHES AND STANDARD FEATURES
   - A. CYCLIC CRANKING
   - B. ALARM HORN WITH SILENCING SWITCH
   - C. VOLTAGE ADJUSTING RHEOSTAT
   - D. OVERVOLTAGE PROTECTION
   - E. REMOTE TWO-WIRE AUTO START SYSTEM
   - F. LAMP TEST SWITCH
   - G. RUN-OFF-RESET/AUTO SWITCH (ENGINE START)
   - H. ENGINE COOL DOWN TIMER (5 MINUTES)
2. ERROR-PROOF WIRING HARNESS FOR ELECTRICAL CONNECTIONS
3. PANEL LAMPS
4. DC CIRCUIT PROTECTION

UNIT ACCESSORIES
1. WEATHER HOUSING-STANDARD WITH ROOF MOUNTED SILENCER
2. MOUNTED CRITICAL GRADE EXHAUST SILENCER
3. TAIL PIPE AND RAIN CAP

COOLING SYSTEM ACCESSORIES
1. UNIT MOUNTED RADIATOR
2. ENGINE BLOCK HEATER

FUEL SYSTEM ACCESSORIES
1. FLEXIBLE FUEL LINES
2. ENGINE BLOCK HEATER
3. SUBBASE FUEL TANK-172 GALLONS
4. DOUBLE WALL CONSTRUCTION WITH LEAK DETECTION MONITOR
5. U.L. 142 LISTED
6. FUEL LEVEL GAUGE
7. LOW FUEL LEVEL ALARM
8. FILL PIPE EXTENDED 10% INTO TANK
9. HIGH-FUEL LEVEL ALARM-SET AT 95%
10. 7.5 GALLON LOCKABLE FILL WITH SPILL CONTAINMENT

GENERATOR ACCESSORIES
1. MAIN LINE CIRCUIT BREAKER-100 AMPS, INSTALLED ON GENERATOR
2. VOLTAGE REGULATOR ±2%
3. SAFEGUARD BREAKER

ENGINE ELECTRICAL ACCESSORIES
1. ELECTRONIC/ISOCHRONOUS GOVERNOR
2. BATTERY RACK, CABLES AND STARTING BATTERY SYSTEM-LEAD ACID TYPE
3. BATTERY CHARGER-AUTOMATIC 6 AMP OUTPUT

Sprint

Alcatel-Lucent

SAC WIRELESS ENGINEERING GROUP
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CARLSBAD, CA 92008
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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE:

02/10/12

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
C	02/02/12	100% CD	AMF
D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
△1	10/9/12	CITY COMMENTS	XS
△1	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

LICENSED ARCHITECT
No. C-27496
Ren. 4-30-13
STATE OF CALIFORNIA

SHEET TITLE:

SPECIFICATIONS & ABBREVIATIONS

SHEET NUMBER: T-3

REVISION: F

BATTERY INFORMATION /NOTES:

BATTERY MFG.:	EAST PENN MANUFACTURING
MODEL No.:	12AVR-145L
ELECTROLYTE CONTENT PER BATTERY:	2.17 GALLONS
ELECTROLYTE HAZARD CLASSIFICATION PER '07 C.F.C. (8.7 % SULFURIC ACID):	CORROSIVE
No. OF BATTERIES TO BE INSTALLED:	20 MAX. (20 PER CABINET)
TOTAL ELECTROLYTE CONTAINED ON SITE (2.17 x 20 = 43.40):	43.4 GALLONS MAX.

A. QUANTITIES OF 500 GAL. OR LESS ARE EXEMPT PER TABLE 3-E OF THE 1997 U.B.C.

B. SINGLE VESSEL CAPACITIES OF 20 GAL. OR LESS, AND AGGREGATE QUANTITIES NOT IN EXCESS OF 100 GAL. ARE EXEMPT PER ARTICLE 64 OF THE 2007 C.F.C.

C. QUANTITIES LESS THAN 50 GAL. ARE EXEMPT FROM C.F.C. ARTICLE 80, AND SHALL NOT REQUIRE PERMIT.

D. ANY CHANGES OR ADDITIONS TO BACK-UP BATTERIES MUST COMPLY WITH 2007 C.F.C. ARTICLE 64, AND SHALL NOT CONTAIN ELECTROLYTE QUANTITIES IN EXCESS OF 50

GENERATOR ACCESSORIES
1. MAIN LINE CIRCUIT BREAKER-100 AMPS, INSTALLED ON GENERATOR
2. VOLTAGE REGULATOR ±2%
3. SAFEGUARD BREAKER

ENGINE ELECTRICAL ACCESSORIES
1. ELECTRONIC/ISOCHRONOUS GOVERNOR
2. BATTERY RACK, CABLES AND STARTING BATTERY SYSTEM-LEAD ACID TYPE
3. BATTERY CHARGER-AUTOMATIC 6 AMP OUTPUT

FIRE DEPARTMENT NOTES:

A. FIRE DEPARTMENT FINAL INSPECTION REQUIRED. SCHEDULE INSPECTION 2 DAYS IN ADVANCE.

B. A CFC PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES IS NOT REQUIRED FO THE QUANTITIES ON SITE.

C. A CFC PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE.

D. A HAZARDOUS MATERIALS IDENTIFICATION SIGN IS REQUIRED FOR ALL ENTRANCES INTO BATTERY STORAGE AREAS. LETTERS MUST BE AT LEAST 1" IN HEIGHT AND IN A COLOR WHICH CONTRASTS TO THE BACKGROUND OF THE SIGN AND LIST THE FOLLOWING:

CLASS 1 WATER REACTIVE LIQUID
TOXIC LIQUID
CORROSIVE LIQUID
OTHER HEALTH HAZARD LIQUID

E. AN APPROVED METHOD TO NEUTRALIZE SPILLED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM.

F. BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.

G. LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE UNIFORM FIRE CODE STANDARD 10-1 AND PLACEMENT IS SUBJECT TO APPROVAL OF THE FIRE INSPECTOR.

H. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.

I. EXIST DOORS SHALL BE ABLE TO OPEN FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

J. ADDRESS NUMBERS SHALL BE A MINIMUM 6 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING IS ADDRESSED ON.

K. REQUIRED SIGNAGE SHALL INCLUDE LETTERING HEIGHT OF AT LEAST ONE INCH, IN A COLOR THAT CONTRASTS TO THE SIGN BACKGROUND, AND SHALL BE PROMINENTLY DISPLAYED.

L. REQUIRED SIGNAGE SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, APPLICABLE TYPES FROM EXAMPLES SHOWN HEREIN (SEE SIGNAGE).

BATTERY INFO & FIRE DEPT NOTES — 4

REQUIRED NFPA SIGNAGE

IN CASE OF EMERGENCY
CALL
1-866-400-6040

SITE NUMBER: LA03XC201
SITE NAME: LINDERO

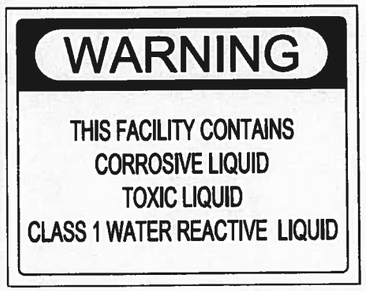
EMERGENCY CONTACT SIGNAGE

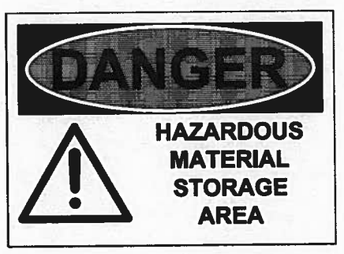
SITE IDENTIFICATION SIGNAGE — 2

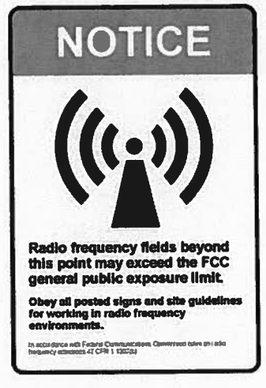
ABBREVIATION	DEFENITION
A.B.	ANCHOR BOLT
ABV.	ABOVE
ACCA	ANTENNA CABLE COVER ASSEMBLY
ADD'L.	ADDITIONAL
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
ALUM.	ALUMINUM
ALT.	ALTERNATE
ANT.	ANTENNA
APPRX.	APPROXIMATE(LY)
ARCH.	ARCHITECT(URAL)
AWG.	AMERICAN WIRE GAUGE
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.N.	BOUNDARY NAILING
BTCW.	BARE TINNED COPPER WIRE
B.O.F.	BOTTOM OF FOOTING
B/U	BACK-UP CABINET
CAB.	CABINET
CANT.	CANTILEVER(ED)
C.I.P.	CAST IN PLACE
CLG.	CEILING
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION(OR)
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
d	PENNY (NAILS)
DBL.	DOUBLE
DEPT.	DEPARTMENT
D.F.	DOUGLAS FIR
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DWG.	DRAWING(S)
DWL.	DOWEL(S)
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMT.	ELECTRICAL METALLIC TUBING
E.N.	EDGE NAIL
ENG.	ENGINEER
EQ.	EQUAL
EXP.	EXPANSION
EXST.(E)	EXISTING
EXT.	EXTERIOR
FAB.	FABRICATION(OR)
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
FIN.	FINISH(ED)
FLR.	FLOOR
FDN.	FOUNDATION
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
F.S.	FINISH SURFACE
FT.(')	FOOT(FEET)
FTG.	FOOTING
G.	GROWTH (CABINET)
GA.	GAUGE
GI.	GALVANIZE(D)
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER
GLB.(GLU-LAM)	GLUE LAMINATED BEAM
GPS	GLOBAL POSITIONING SYSTEM
GRND.	GROUND
HDR.	HEADER
HGR.	HANGER
HT.	HEIGHT
ICGB.	ISOLATED COPPER GROUND BUS
IN.(")	INCH(ES)
INT.	INTERIOR
LB.(#)	POUND(S)
L.B.	LAG BOLTS
L.F.	LINEAR FEET (FOOT)
L.	LONG(ITUDINAL)
MAS.	MASONRY
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
(N)	NEW
NO.(#)	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
P/C	PRECAST CONCRETE
PCS	PERSONAL COMMUNICATION SERVICES
PLY.	PLYWOOD
PPC	POWER PROTECTION CABINET
PRC	PRIMARY RADIO CABINET
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
PWR.	POWER (CABINET)
QTY.	QUANTITY
RAD.(R)	RADIUS
REF.	REFERENCE
REINF.	REINFORCEMENT(ING)
REQ'D.	REQUIRED
RGS.	RIGID GALVANIZED STEEL
RRU.	RADIO REMOTE UNIT
SCH.	SCHEDULE
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION(S)
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUC.	STRUCTURAL
TEMP.	TEMPORARY
THK.	THICK(NESS)
TMA	TOWER MOUNTED AMPLIFIER
T.N.	TOE NAIL
T.O.A.	TOP OF ANTENNA
T.O.C.	TOP OF CURB
T.O.F.	TOP OF FOUNDATION
T.O.P.	TOP OF PLATE (PARAPET)
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.G.	UNDER GROUND
U.L.	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
W	WIDE(WIDTH)
W/	WITH
WD.	WOOD
W.P.	WEATHERPROOF
WT.	WEIGHT
℄	CENTERLINE
℗	PLATE

ABBREVIATIONS — 5

HAZARDOUS MATERIAL SIGNAGE — 3







RF SIGNAGE — 1

Sprint

Alcatel-Lucent

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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE:

02/10/12

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
C	02/02/12	100% CD	AMF
D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
1	10/9/12	CITY COMMENTS	XS
2	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

LICENSED ARCHITECT
JASPER POPOWYCH
No. C-27498
Ren. 4-30-13
STATE OF CALIFORNIA

SHEET TITLE:

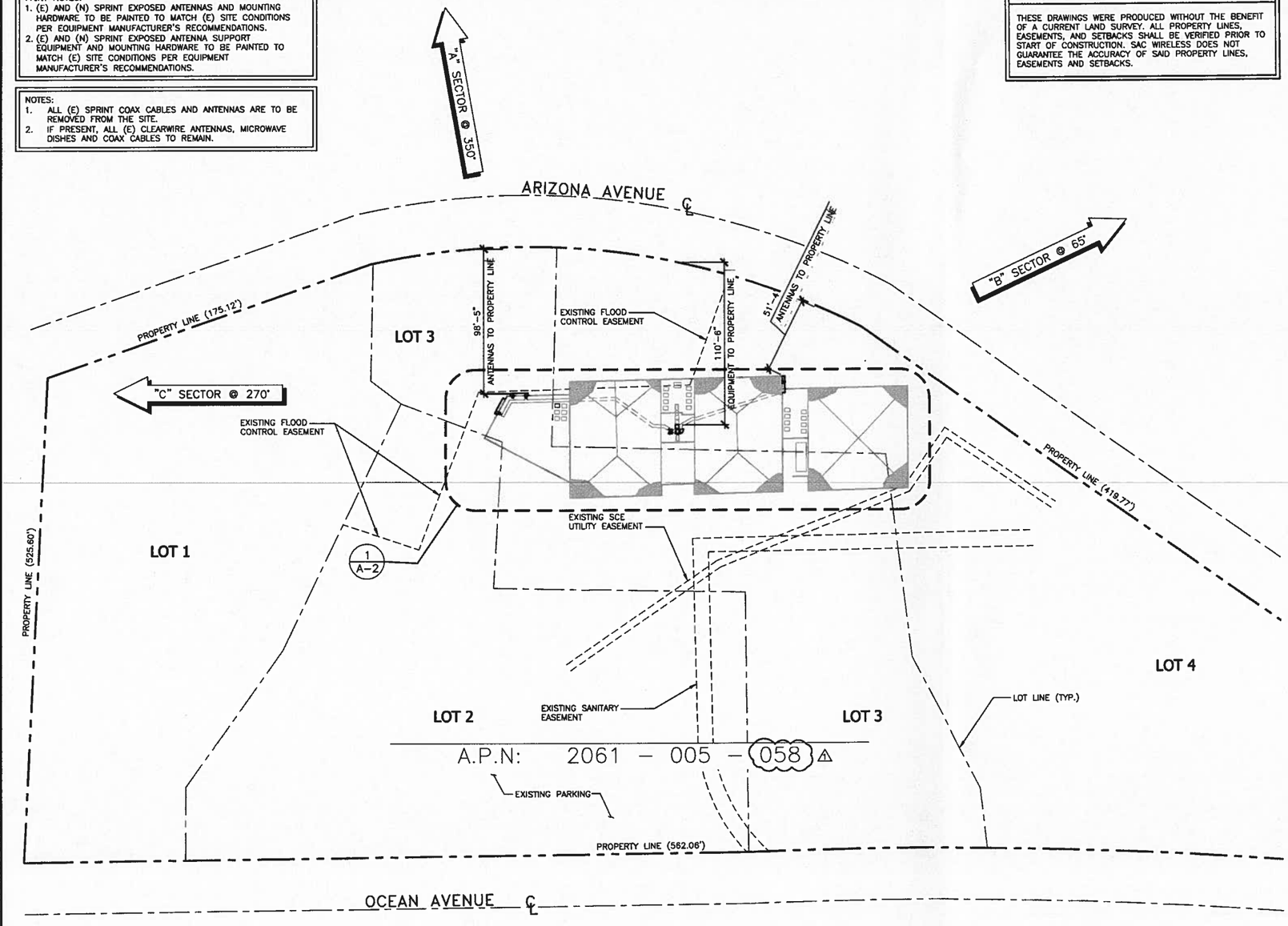
SIGNAGE AND NOTES

SHEET NUMBER: T-4

REVISION: F

PAINT NOTES:
1. (E) AND (N) SPRINT EXPOSED ANTENNAS AND MOUNTING HARDWARE TO BE PAINTED TO MATCH (E) SITE CONDITIONS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
2. (E) AND (N) SPRINT EXPOSED ANTENNA SUPPORT EQUIPMENT AND MOUNTING HARDWARE TO BE PAINTED TO MATCH (E) SITE CONDITIONS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

NOTES:
1. ALL (E) SPRINT COAX CABLES AND ANTENNAS ARE TO BE REMOVED FROM THE SITE.
2. IF PRESENT, ALL (E) CLEARWIRE ANTENNAS, MICROWAVE DISHES AND COAX CABLES TO REMAIN.



DISCLAIMER

THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. SAC WIRELESS DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS AND SETBACKS.

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY CENTERLINE
- RIGHT-OF-WAY LINE
- ADJACENT BOUNDARY LINE
- SECTIONAL BREAKDOWN LINE
- (N) FIBER LINE
- (N) POWER/FIBER LINE
- OVERHEAD POWER LINE
- BURIED POWER LINE
- BURIED GAS LINE
- OVERHEAD TELEPHONE LINE
- BURIED TELEPHONE LINE
- BURIED WATER LINE
- BURIED SANITARY SEWER
- BURIED STORM DRAIN
- DITCH LINE/FLOW LINE
- VEGETATION LINE
- CHAIN LINK FENCE
- WOOD FENCE
- BARBED WIRE/WIRE FENCE

TRANSFORMER	FIRE HYDRANT
LIGHT STANDARD	GATE VALVE
POWER VAULT	WATER METER
UTILITY BOX	FIRE STAND PIPE
UTILITY POLE	CATCH BASIN, TYPE I
POLE GUY WIRE	CATCH BASIN, TYPE II
GAS VALVE	SIGN
GAS METER	BOLLARD
TELEPHONE VAULT	MAIL BOX
TELEPHONE RISER	234.21 SPOT ELEVATION

NORTH

40' 0 20' 40'

SCALE: 1" = 40'-0" (24x36)
(OR) 1/2" = 40'-0" (11x17)

1

OVERALL SITE PLAN

Sprint

Alcatel-Lucent

SAC WIRELESS ENGINEERING GROUP
5995 AVENIDA ENCINAS
CARLSBAD, CA 92008
www.sacwi.com
760.795.5200

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE:

02/10/12

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
C	02/02/12	100% CD	AMF
D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
1	10/9/12	CITY COMMENTS	XS
2	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

LICENSED ARCHITECT
IGOR POPOWYCH
No. C-27498
Rest. 4-30-13
STATE OF CALIFORNIA

SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER: A-1

REVISION: F

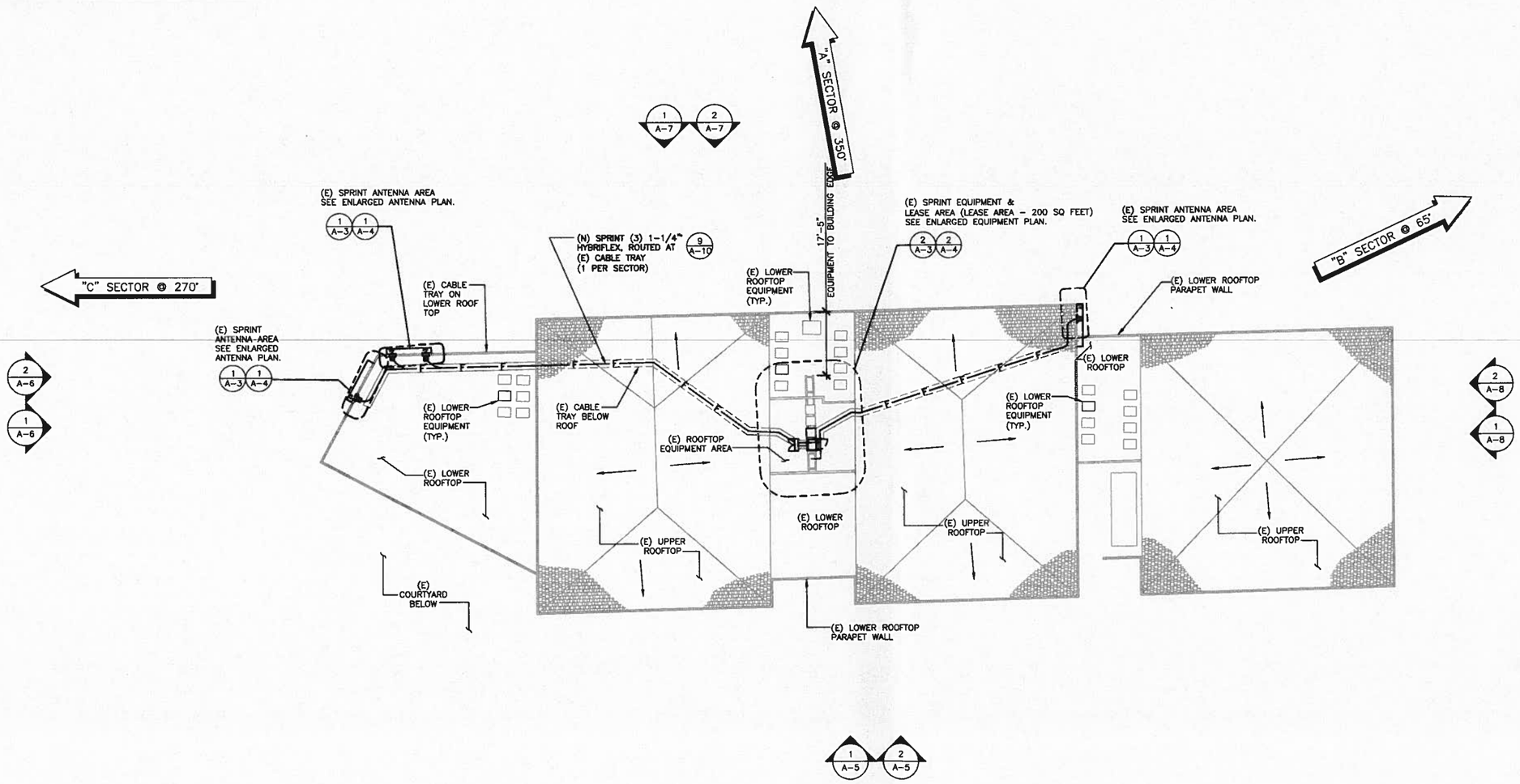
PAINT NOTES:
1. (E) AND (N) SPRINT EXPOSED ANTENNAS AND MOUNTING HARDWARE TO BE PAINTED TO MATCH (E) SITE CONDITIONS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
2. (E) AND (N) SPRINT EXPOSED ANTENNA SUPPORT EQUIPMENT AND MOUNTING HARDWARE TO BE PAINTED TO MATCH (E) SITE CONDITIONS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

NOTES:
1. ALL (E) SPRINT COAX CABLES AND ANTENNAS ARE TO BE REMOVED FROM THE SITE.
2. IF PRESENT, ALL (E) CLEARWIRE ANTENNAS, MICROWAVE DISHES AND COAX CABLES TO REMAIN.

NOTE:

SPRINT PROPOSES TO MODIFY AN (E) UNMANNED TELECOMMUNICATIONS FACILITY

- REMOVE (6) (E) PANEL ANTENNAS
- INSTALL (4) (N) PANEL ANTENNAS
- INSTALL (6) (N) RRH UNITS
- REMOVE ALL (E) ANTENNA COAX
- INSTALL (3) (N) HYBRIFLEX CABLES USING (E) COAX ROUTE
- REMOVE (1) (E) MODCELL COMPACT 4.0 CABINET
- INSTALL (1) (N) MODCELL (9928) CABINET
- REMOVE (1) (E) POWER CABINET (60C)
- REMOVE (1) (E) BATTERY BACKUP UNIT CABINET (60C)
- INSTALL (1) (N) BATTERY BACK UP CABINET (60ECV2)
- INSTALL (1) (N) JUNCTION BOX



NORTH

ROOFTOP PLAN

1' 8' 16' 24' 32'

SCALE: 1/16" = 1'-0" (24x36)
(OR) 1/32" = 1'-0" (11x17)

1

Sprint

Alcatel·Lucent

SAC WIRELESS ENGINEERING GROUP
5985 AVENIDA ENCINAS
CARLSBAD, CA 92008
www.sacwe.com
760.795.5200

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

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AGOURA HILLS, CA 91301
AGOURA

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F	12/07/12	DE-SCOPE	CM

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LICENSURE:

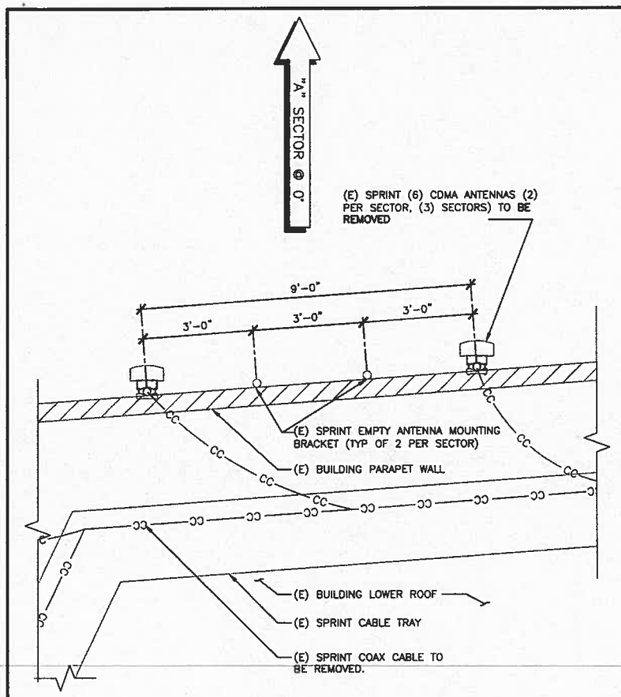
LICENSED ARCHITECT HEATHER POPOWICH No. C-27498 Exp. 4-30-13 STATE OF CALIFORNIA

SHEET TITLE:

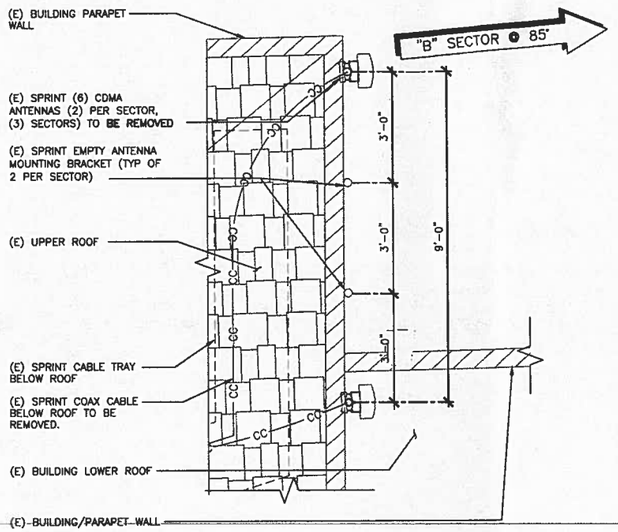
ROOFTOP PLAN

SHEET NUMBER: A-2

REVISION: F



SECTOR "A"



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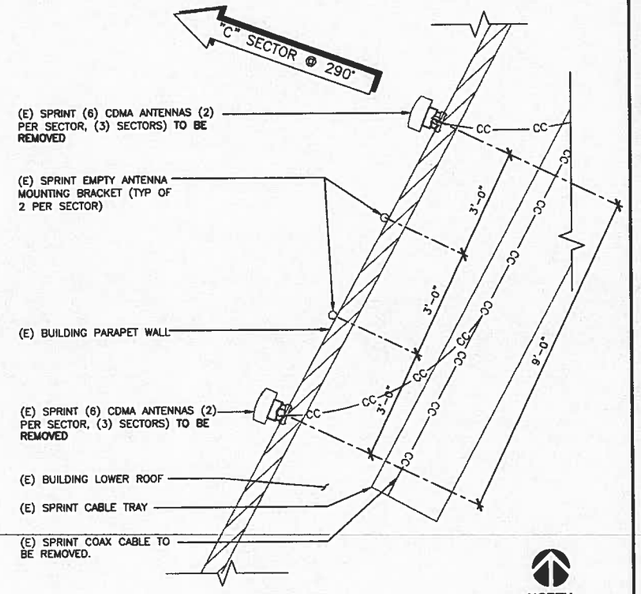


SECTOR "C"

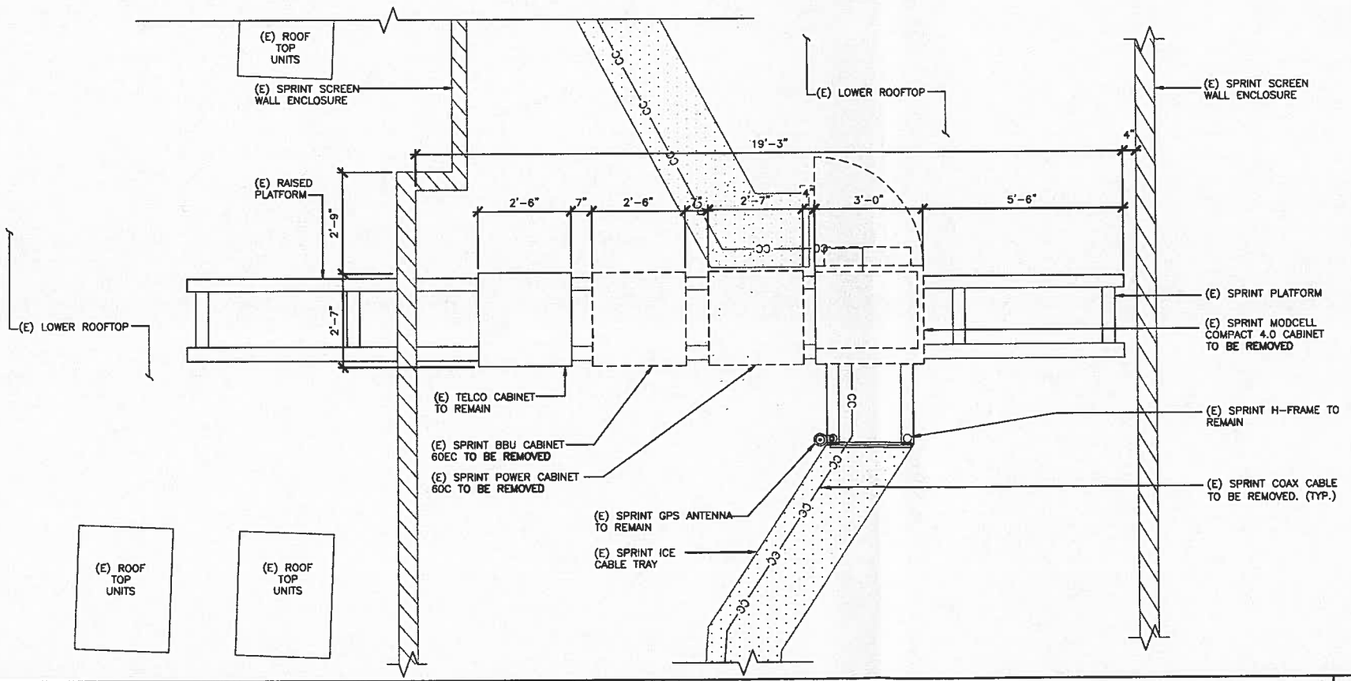
NORTH

ENLARGED ANTENNA PLAN (E)

0 1' 2' 4'

SCALE: 1/2" = 1'-0" (24x36)
(OR) 1/4" = 1'-0" (11x17)

1



NORTH

ENLARGED EQUIPMENT PLAN (E)

0 1' 2' 4'

SCALE: 1/2" = 1'-0" (24x36)
(OR) 1/4" = 1'-0" (11x17)

2

Sprint

Alcatel-Lucent

SBC WIRELESS ENGINEERING GROUP
5965 AVENIDA ENCINAS
CARLSBAD, CA 92008
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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

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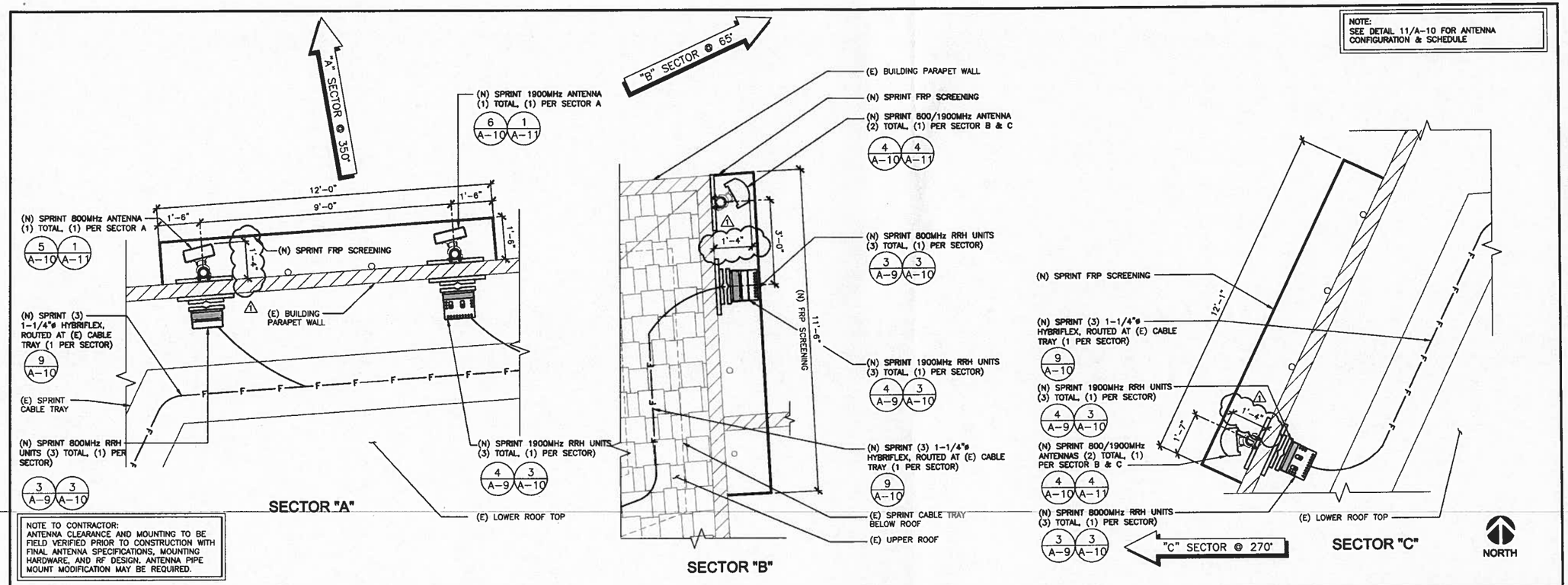
LICENSURE:

SHEET TITLE:

ENLARGED ANTENNA & EQUIPMENT PLANS (E)

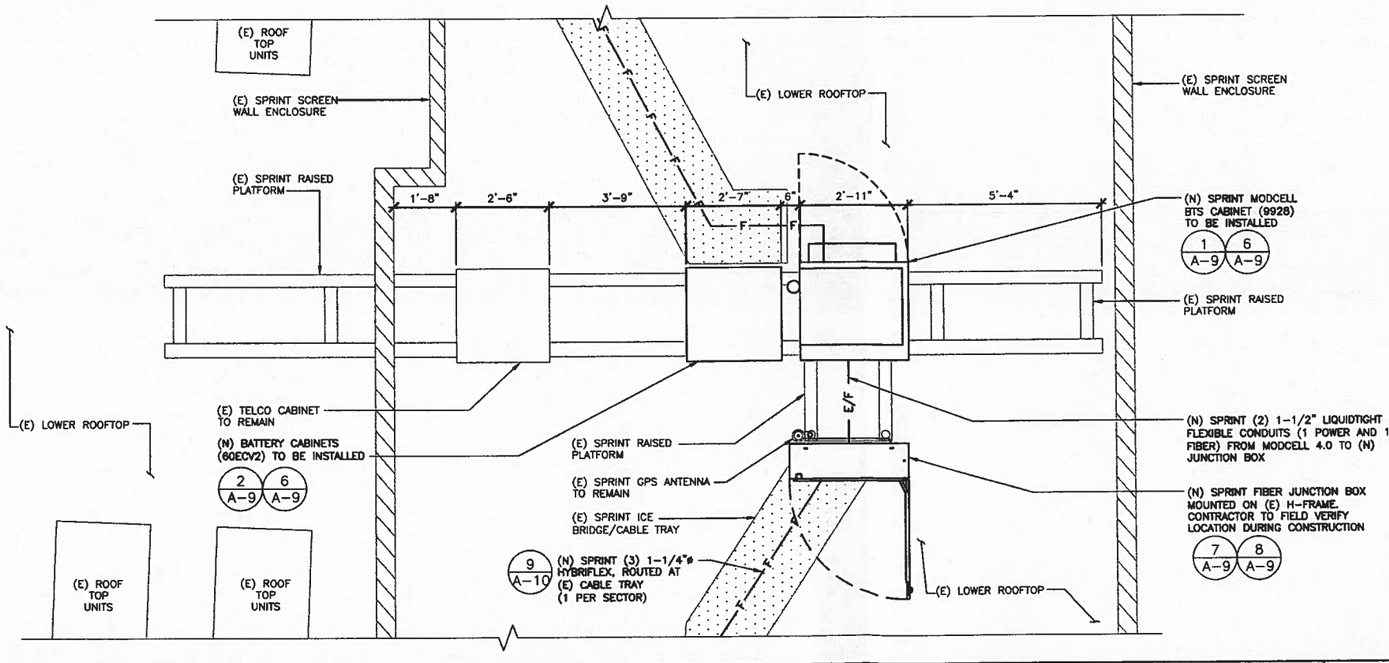
SHEET NUMBER: A-3

REVISION: F



ENLARGED ANTENNA PLAN (N)

0 1' 2' 4' SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17) 1



ENLARGED EQUIPMENT PLAN (N)

0 1' 2' 4' SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17) 2

Sprint

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CARLSBAD, CA 92008
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760.795.5300

PROJECT INFORMATION:

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LINDERO

LA03XC201

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AGOURA

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2	10/18/12	CITY COMMENTS	KW
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LICENSURE:

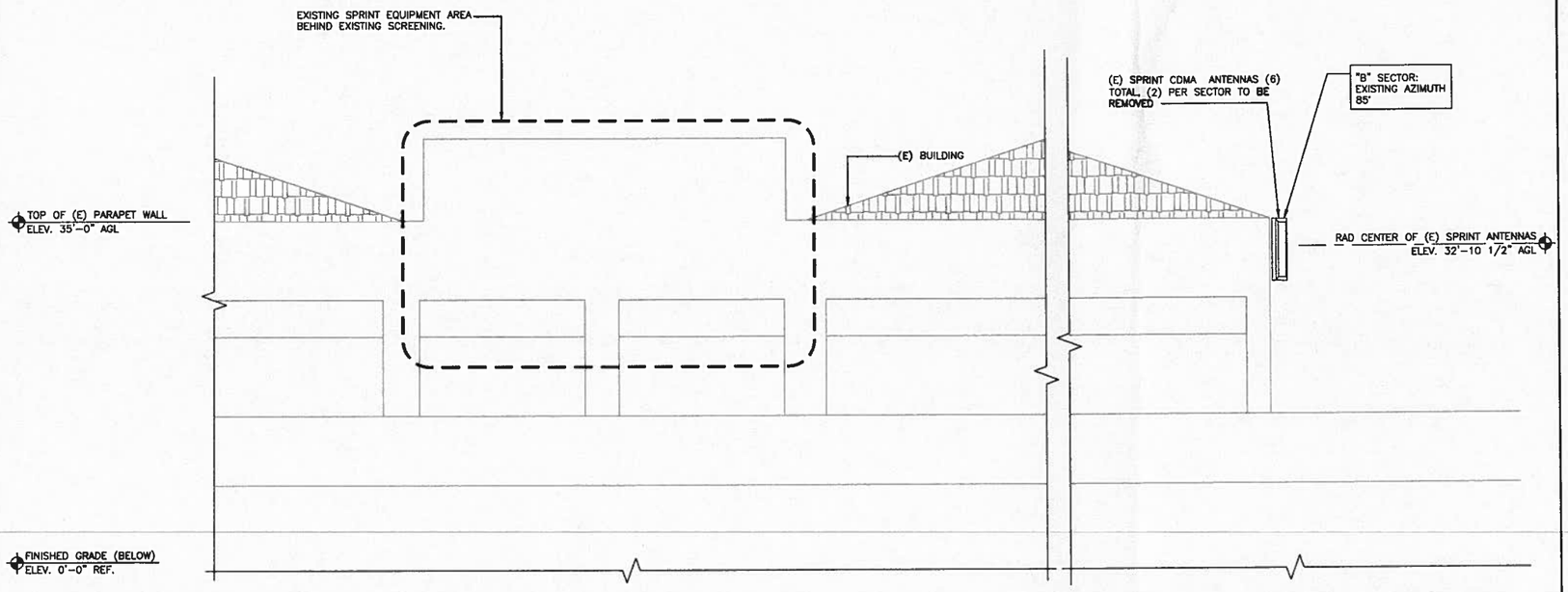
LICENSED ARCHITECT JASPOR POPOWYCH No. C-27498 Rent 4-30-13 STATE OF CALIFORNIA

SHEET TITLE:

ENLARGED ANTENNA & EQUIPMENT PLANS (N)

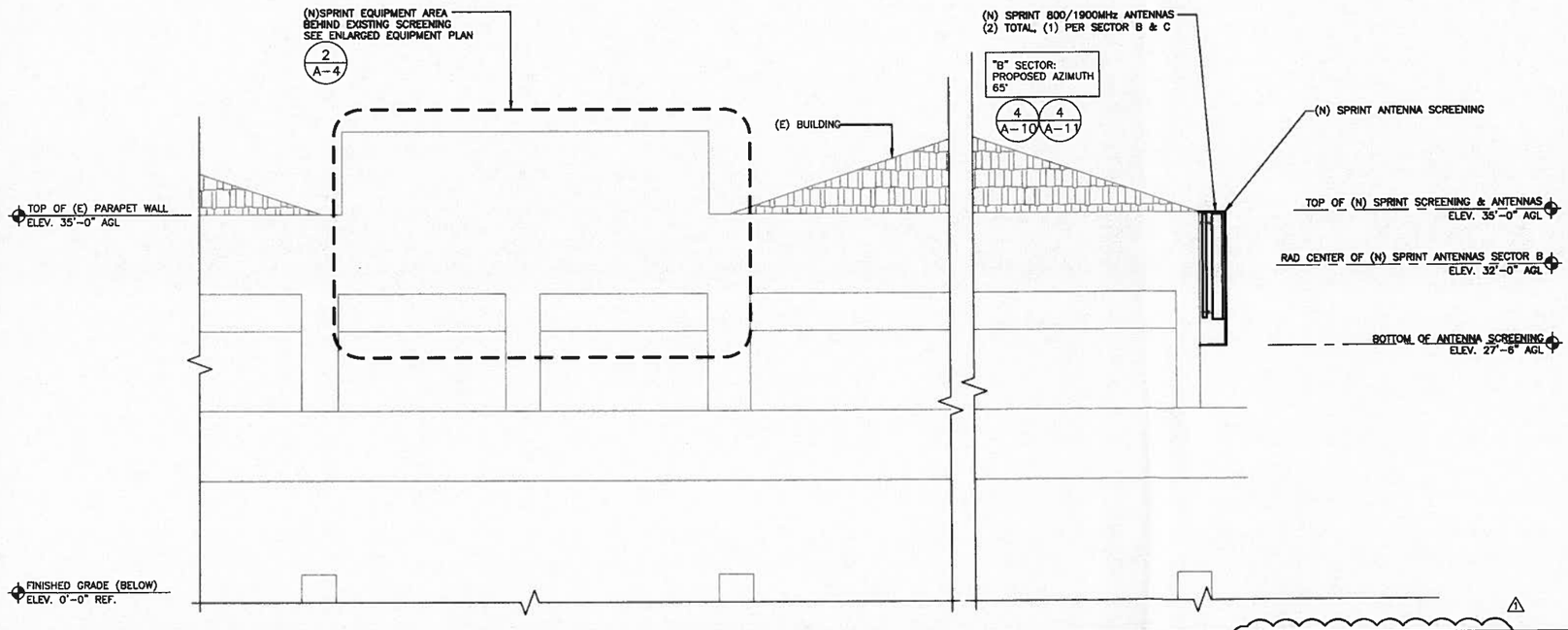
SHEET NUMBER: A-4

REVISION: F



(E) SOUTH ELEVATION

0 1" 2" 4" SCALE: 1/4" = 1'-0" (24x36) (OR) 1/8" = 1'-0" (11x17) 1



(N) SOUTH ELEVATION

0 1" 2" 4" SCALE: 1/4" = 1'-0" (24x36) (OR) 1/8" = 1'-0" (11x17) 2

NOTES:
1. CONTRACTOR TO FIELD VERIFY ANTENNA CABLE LENGTHS.
2. ALL MAIN CABLES WILL BE COLOR CODED AT THREE (3) LOCATIONS.
3. COLOR CODE ALL ANTENNA AND COAX WITH 2" WIDE BANDS OF COLORED TAPE WITH 1" SEPARATION BETWEEN BANDS
4. COLOR CODE ALL TOP AND BOTTOM GROUND KITS WITH 1" WIDE BANDS OF COLORED TAPE WITH 1/2" SEPARATION BETWEEN BANDS.
5. START COLOR BANDS 2" BEYOND WEATHERPROOFING.
6. START SECTOR COLOR NEXT TO END CONNECTOR.
7. ALL MAIN CABLES WILL BE GROUNDED W/ HYBRIFLEX CABLE GROUND KITS AT:
   - THE ANTENNA LEVEL
   - MID LEVEL IF TOWER IS OVER 200'
   - BASE OF TOWER PRIOR TO TURNING HORIZONTAL
   - TERMINATION OF COAX LINES TO JUMPERS
8. ALL NEW GROUND BAR DOWNLEADS ARE TO BE CADWELDED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4FT BELOW GROUND BAR
9. PROVIDE BUSS BAR NEAR BTS FOR ATTACHMENT OF WIMAX COAX GROUND KITS

HYBRIFLEX ANTENNA CABLE NOTES:
1. THE ANTENNA HYBRIFLEX CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN SWEEP TESTS (ANTENNA RETURN LOSS TEST). THIS TEST SHALL BE PERFORMED TO THE SPECIFICATIONS AND PARAMETERS OUTLINED BY THE SPRINT RADIO FREQUENCY (RF) ENGINEER. THIS TEST SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE OF THE SITE/
2. THE HYBRIFLEX ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN TIME DOMAIN REFLECTOMETER (TDR) TESTS TO VERIFY CABLE LENGTH AND TO CHECK FOR WATER DAMAGE.
3. VAPOR WRAP WILL BE USED TO SEAL ALL CONNECTIONS.
4. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE WILL BE 1/2" JUMPERS AND SHALL NOT EXCEED 6'-0". MAXIMUM LENGTH FOR THE JUMPERS AT WIMAX BTS UNITS WILL BE 6'-0".
5. IF COAX IS BEING RE-USED FOR THIS INSTALLATION, PRE AND POST ANTENNA LINE SWEEPS ARE REQUIRED.

ANTENNA MOUNTING NOTES:
1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/EIA/TIA-222; APPENDIX B FOR WIND LOADING; "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES" OR APPLICABLE LOCAL CODES.
2. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIPPED GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
5. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED SNUG TIGHT.
6. MINIMUM HORIZONTAL SPACING SHALL BE 2'-0" BETWEEN ALL ANTENNAS.
7. UPON COMPLETION, PROVIDE A HEIGHT VERIFICATION DEPICTING RAD CENTER AND TOP OF ANTENNA.

CONTRACTOR NOTES:
1. (N) SPRINT FIBER LINES FROM (E)/(N) EQUIPMENT, TO (N) SPRINT ANTENNAS ARE TO FOLLOW (E) FIBER/COAX ROUTE (FIELD VERIFY).
2. ALL (N) MATERIALS (ANTENNAS, EQUIPMENT /RRH'S AND ALL HARDWARE) THAT ARE EXPOSED (NOT BEHIND SCREENING) ARE TO BE PAINTED (PER MANUFACTURERS RECOMMENDATIONS) TO MATCH (E) BUILDING FINISH.
3. PATCH AND REPAIR EXISTING MATERIALS, FINISHES, WALLS, ETC. AS NEEDED TO PROVIDE A SEAMLESS TRANSITION FROM (N) TO (E) SURFACES. (N) CONSTRUCTION MUST MATCH (E) BUILDING COLOR, FINISH AND TEXTURE.

GENERAL NOTES:
1. ALL AZIMUTHS ARE TO BE ESTABLISHED CLOCKWISE FROM THE TRUE NORTH HEADING.
2. CONTRACTOR SHALL VERIFY PROPOSED ANTENNA RAD CENTER AND ORIENTATIONS WITH SPRINT PRIOR TO INSTALLATION OF ANTENNAS.
3. PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, EXISTING TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE PROPOSED LOADS. REFER TO STRUCTURAL ANALYSIS BY OTHERS.
4. CONTRACTOR SHALL REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

Sprint

Alcatel·Lucent

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5985 AVENIDA ENCINAS
CARLSBAD, CA 92008
www.sacw.com
760.795.5200

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE:

02/10/12

ISSUED FOR:

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2	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

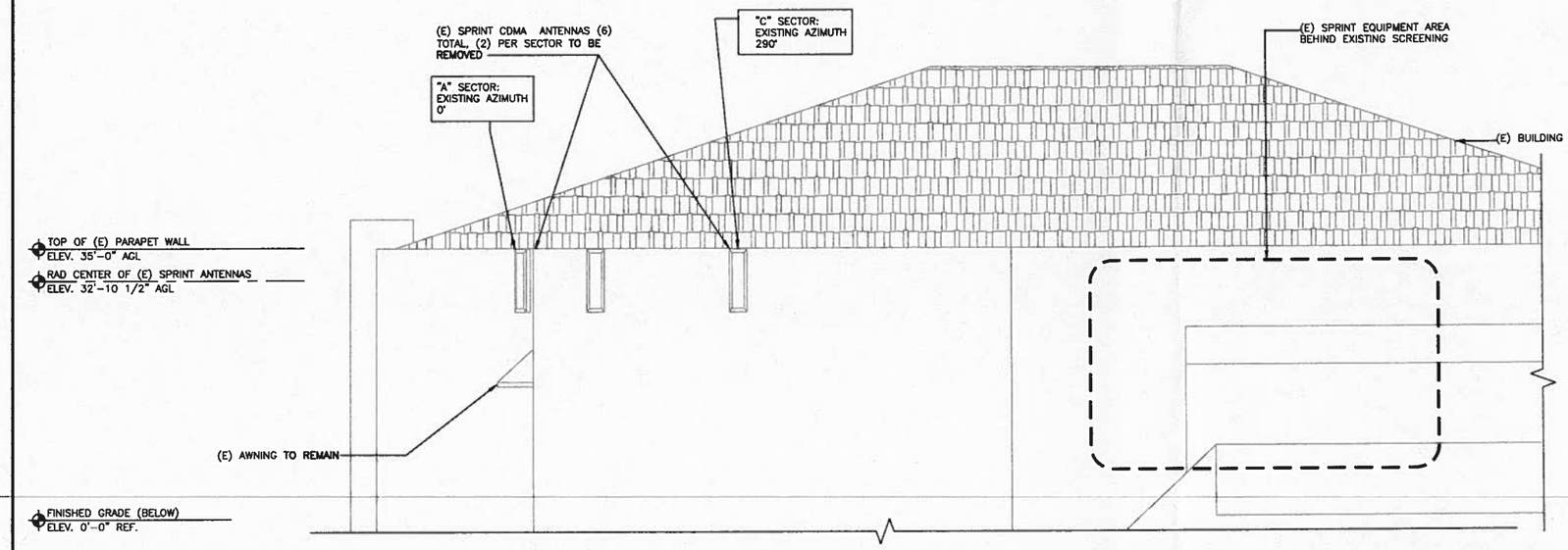
LICENSED ARCHITECT IGOR POPOWYCH No. C-27498 Ren. 4-30-13 STATE OF CALIFORNIA

SHEET TITLE:

(E) & (N) SOUTH ELEVATIONS

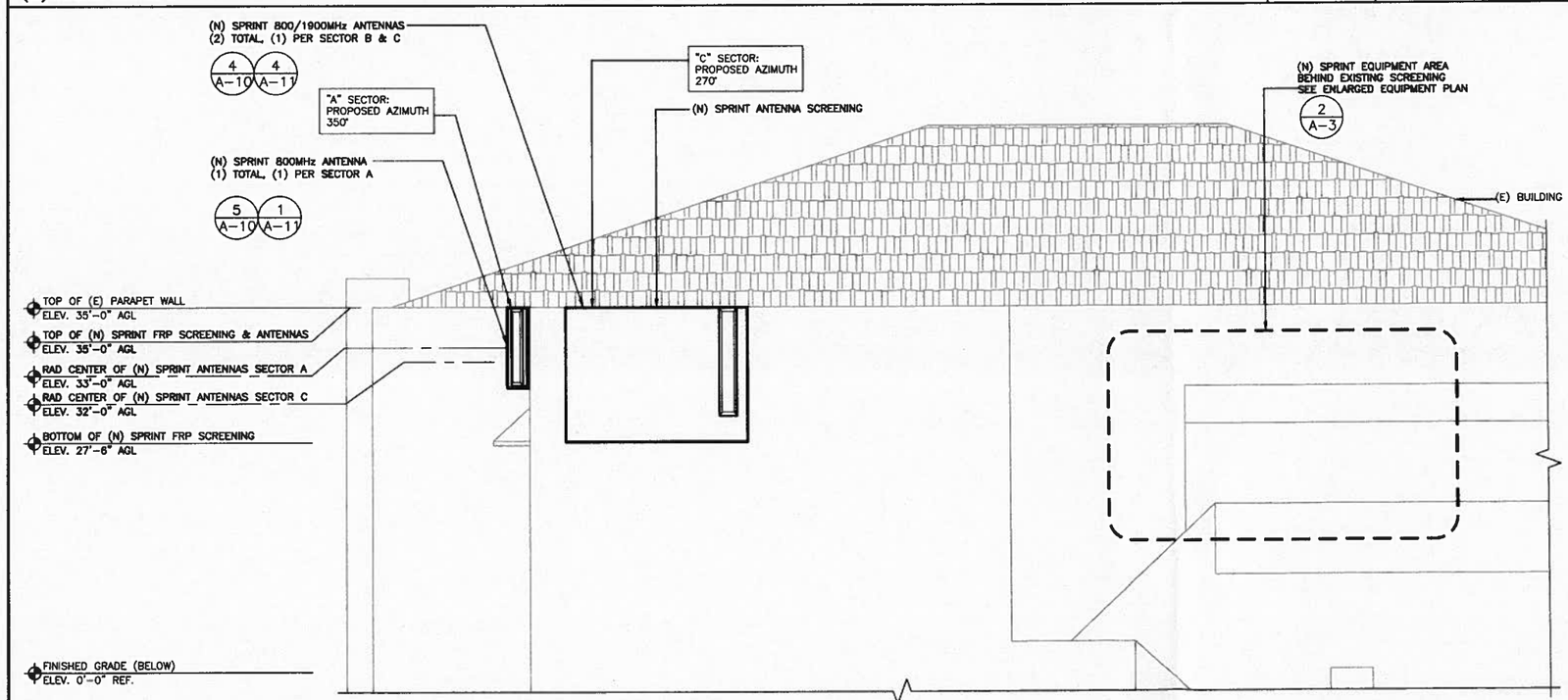
SHEET NUMBER: A-5

REVISION: F



(E) WEST ELEVATION

SCALE: 1/4" = 1'-0" (24x36) (OR) 1/8" = 1'-0" (11x17) — 1



(N) WEST ELEVATION

SCALE: 1/4" = 1'-0" (24x36) (OR) 1/8" = 1'-0" (11x17) — 2

NOTES:
1. CONTRACTOR TO FIELD VERIFY ANTENNA CABLE LENGTHS.
2. ALL MAIN CABLES WILL BE COLOR CODED AT THREE (3) LOCATIONS.
3. COLOR CODE ALL ANTENNA AND COAX WITH 2" WIDE BANDS OF COLORED TAPE WITH 1" SEPARATION BETWEEN BANDS
4. COLOR CODE ALL TOP AND BOTTOM GROUND KITS WITH 1" WIDE BANDS OF COLORED TAPE WITH 1/2" SEPARATION BETWEEN BANDS.
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6. START SECTOR COLOR NEXT TO END CONNECTOR.
7. ALL MAIN CABLES WILL BE GROUNDED W/ HYBRIFLEX CABLE GROUND KITS AT:
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   - MID LEVEL IF TOWER IS OVER 200'
   - BASE OF TOWER PRIOR TO TURNING HORIZONTAL
   - TERMINATION OF COAX LINES TO JUMPERS
8. ALL NEW GROUND BAR DOWNLEADS ARE TO BE CADWELDED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4FT BELOW GROUND BAR
9. PROVIDE BUSS BAR NEAR BTS FOR ATTACHMENT OF WIMAX COAX GROUND KITS

HYBRIFLEX ANTENNA CABLE NOTES:
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2. THE HYBRIFLEX ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN TIME DOMAIN REFLECTOMETER (TDR) TESTS TO VERIFY CABLE LENGTH AND TO CHECK FOR WATER DAMAGE.
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5. IF COAX IS BEING RE-USED FOR THIS INSTALLATION, PRE AND POST ANTENNA LINE SWEEPS ARE REQUIRED.

ANTENNA MOUNTING NOTES:
1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/EIA/TIA-222; APPENDIX B FOR WIND LOADING; "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES" OR APPLICABLE LOCAL CODES.
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7. UPON COMPLETION, PROVIDE A HEIGHT VERIFICATION DEPICTING RAD CENTER AND TOP OF ANTENNA.

CONTRACTOR NOTES:
1. (N) SPRINT FIBER LINES FROM (E)/(N) EQUIPMENT, TO (N) SPRINT ANTENNAS ARE TO FOLLOW (E) FIBER/COAX ROUTE (FIELD VERIFY).
2. ALL (N) MATERIALS (ANTENNAS, EQUIPMENT /RRH'S AND ALL HARDWARE) THAT ARE EXPOSED (NOT BEHIND SCREENING) ARE TO BE PAINTED (PER MANUFACTURERS RECOMMENDATIONS) TO MATCH (E) BUILDING FINISH.
3. PATCH AND REPAIR EXISTING MATERIALS, FINISHES, WALLS, ETC. AS NEEDED TO PROVIDE A SEAMLESS TRANSITION FROM (N) TO (E) SURFACES. (N) CONSTRUCTION MUST MATCH (E) BUILDING COLOR, FINISH AND TEXTURE.

GENERAL NOTES:
1. ALL AZIMUTHS ARE TO BE ESTABLISHED CLOCKWISE FROM THE TRUE NORTH HEADING.
2. CONTRACTOR SHALL VERIFY PROPOSED ANTENNA RAD CENTER AND ORIENTATIONS WITH SPRINT PRIOR TO INSTALLATION OF ANTENNAS.
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4. CONTRACTOR SHALL REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

Sprint

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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

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LICENSURE:

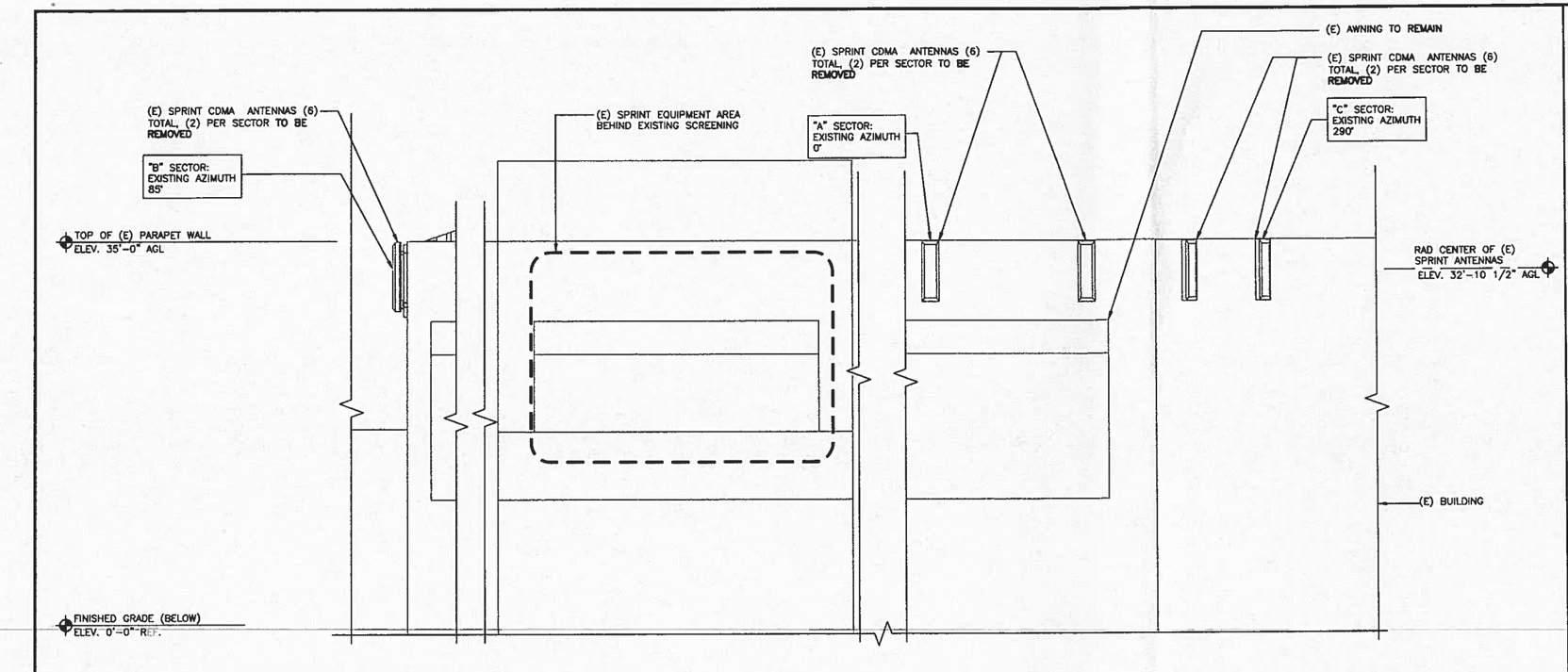
LICENSED ARCHITECT IGNOR POPOVICH No. C-27498 Ren. 4-30-13 STATE OF CALIFORNIA

SHEET TITLE:

(E) & (N) WEST ELEVATIONS

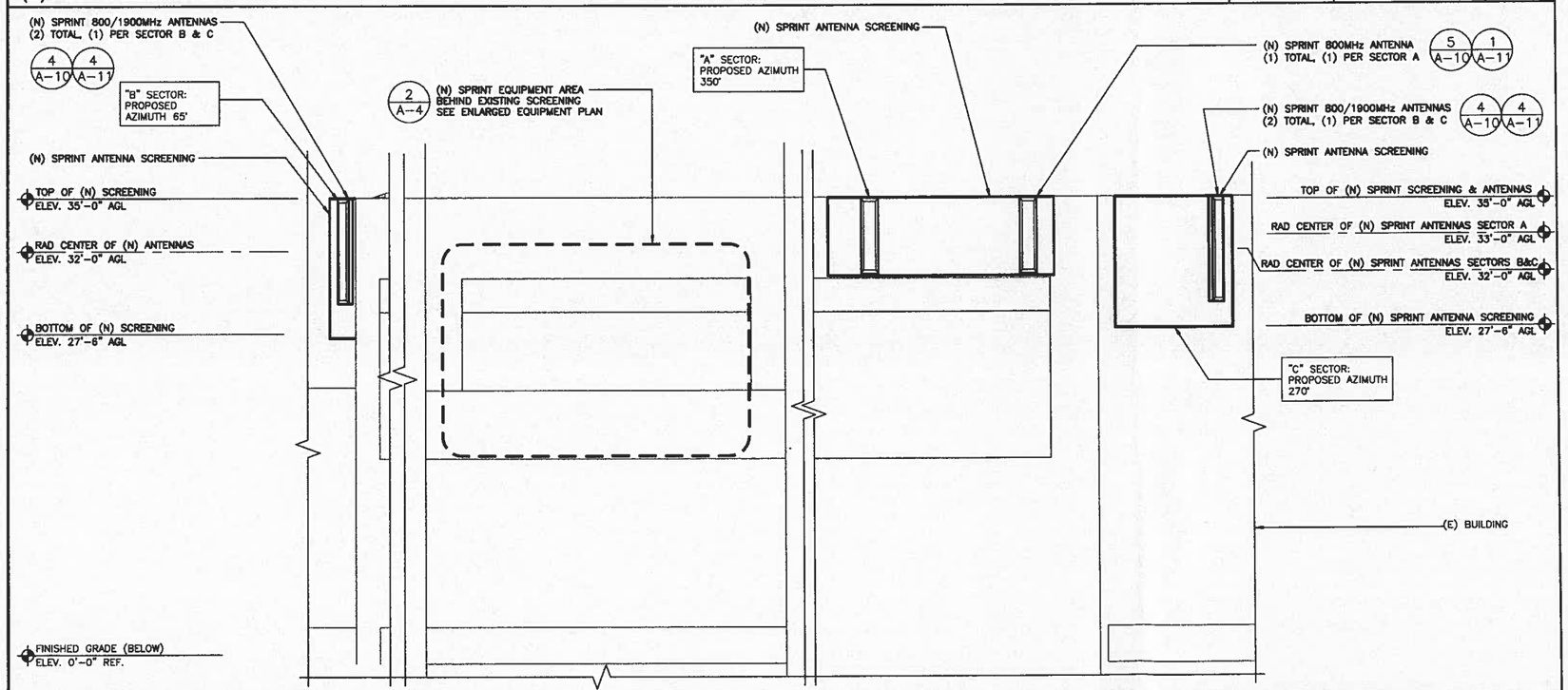
SHEET NUMBER: A-6

REVISION: F



(E) NORTH ELEVATION

SCALE: 1/4" = 1'-0" (24x36) (OR) 1/8" = 1'-0" (11x17) — 1



(N) NORTH ELEVATION

SCALE: 1/4" = 1'-0" (24x36) (OR) 1/8" = 1'-0" (11x17) — 2

NOTES:
1. CONTRACTOR TO FIELD VERIFY ANTENNA CABLE LENGTHS.
2. ALL MAIN CABLES WILL BE COLOR CODED AT THREE (3) LOCATIONS.
3. COLOR CODE ALL ANTENNA AND COAX WITH 2" WIDE BANDS OF COLORED TAPE WITH 1" SEPARATION BETWEEN BANDS
4. COLOR CODE ALL TOP AND BOTTOM GROUND KITS WITH 1" WIDE BANDS OF COLORED TAPE WITH 1/2" SEPARATION BETWEEN BANDS.
5. START COLOR BANDS 2" BEYOND WEATHERPROOFING.
6. START SECTOR COLOR NEXT TO END CONNECTOR.
7. ALL MAIN CABLES WILL BE GROUNDED W/ HYBRIFLEX CABLE GROUND KITS AT:
   - THE ANTENNA LEVEL
   - MID LEVEL IF TOWER IS OVER 200'
   - BASE OF TOWER PRIOR TO TURNING HORIZONTAL
   - TERMINATION OF COAX LINES TO JUMPERS
8. ALL NEW GROUND BAR DOWNLEADS ARE TO BE CADWELDED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4FT BELOW GROUND BAR
9. PROVIDE BUSS BAR NEAR BTS FOR ATTACHMENT OF WIMAX COAX GROUND KITS

HYBRIFLEX ANTENNA CABLE NOTES:
1. THE ANTENNA HYBRIFLEX CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN SWEEP TESTS (ANTENNA RETURN LOSS TEST). THIS TEST SHALL BE PERFORMED TO THE SPECIFICATIONS AND PARAMETERS OUTLINED BY THE SPRINT RADIO FREQUENCY (RF) ENGINEER. THIS TEST SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE OF THE SITE/
2. THE HYBRIFLEX ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN TIME DOMAIN REFLECTOMETER (TDR) TESTS TO VERIFY CABLE LENGTH AND TO CHECK FOR WATER DAMAGE.
3. VAPOR WRAP WILL BE USED TO SEAL ALL CONNECTIONS.
4. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE WILL BE 1/2" JUMPERS AND SHALL NOT EXCEED 6'-0". MAXIMUM LENGTH FOR THE JUMPERS AT WIMAX BTS UNITS WILL BE 6'-0".
5. IF COAX IS BEING RE-USED FOR THIS INSTALLATION, PRE AND POST ANTENNA LINE SWEEPS ARE REQUIRED.

ANTENNA MOUNTING NOTES:
1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/EIA/TIA-222; APPENDIX B FOR WIND LOADING; "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES" OR APPLICABLE LOCAL CODES.
2. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIPPED GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
5. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED SNUG TIGHT.
6. MINIMUM HORIZONTAL SPACING SHALL BE 2'-0" BETWEEN ALL ANTENNAS.
7. UPON COMPLETION, PROVIDE A HEIGHT VERIFICATION DEPICTING RAD CENTER AND TOP OF ANTENNA.

CONTRACTOR NOTES:
1. (N) SPRINT FIBER LINES FROM (E)/(N) EQUIPMENT, TO (N) SPRINT ANTENNAS ARE TO FOLLOW (E) FIBER/COAX ROUTE (FIELD VERIFY).
2. ALL (N) MATERIALS (ANTENNAS, EQUIPMENT /RRH'S AND ALL HARDWARE) THAT ARE EXPOSED (NOT BEHIND SCREENING) ARE TO BE PAINTED (PER MANUFACTURERS RECOMMENDATIONS) TO MATCH (E) BUILDING FINISH.
3. PATCH AND REPAIR EXISTING MATERIALS, FINISHES, WALLS, ETC. AS NEEDED TO PROVIDE A SEAMLESS TRANSITION FROM (N) TO (E) SURFACES. (N) CONSTRUCTION MUST MATCH (E) BUILDING COLOR, FINISH AND TEXTURE.

GENERAL NOTES:
1. ALL AZIMUTHS ARE TO BE ESTABLISHED CLOCKWISE FROM THE TRUE NORTH HEADING.
2. CONTRACTOR SHALL VERIFY PROPOSED ANTENNA RAD CENTER AND ORIENTATIONS WITH SPRINT PRIOR TO INSTALLATION OF ANTENNAS.
3. PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, EXISTING TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE PROPOSED LOADS. REFER TO STRUCTURAL ANALYSIS BY OTHERS.
4. CONTRACTOR SHALL REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

Sprint

Alcatel-Lucent

SAC WIRELESS ENGINEERING GROUP
6885 AVENIDA ENCINAS
CARLSBAD, CA 92008
www.sacw.com
760.795.9200

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE:

02/10/12

ISSUED FOR:

100% CD

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
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D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
⚠	10/9/12	CITY COMMENTS	XS
⚠	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

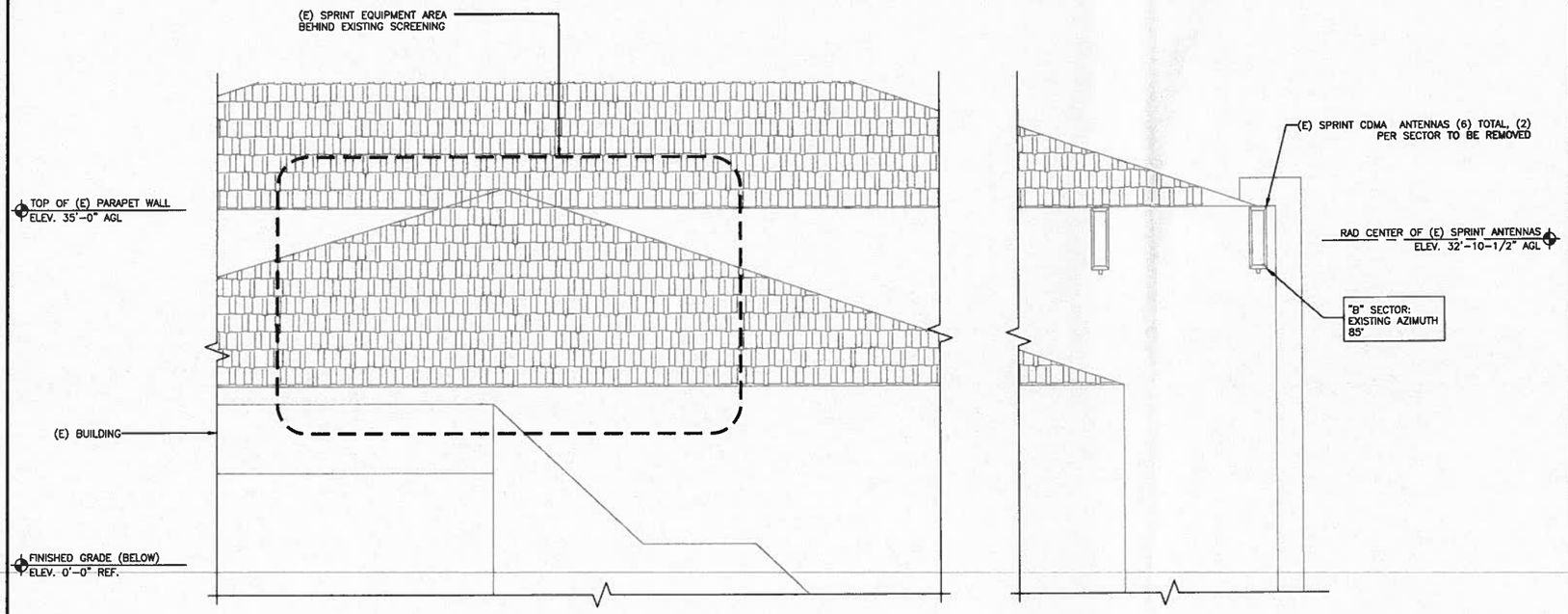
LICENSED ARCHITECT — HEATHER POPOWYCH — No. C-27498 — Exp. 4-30-13 — STATE OF CALIFORNIA

SHEET TITLE:

(E) & (N) NORTH ELEVATIONS

SHEET NUMBER: A-7

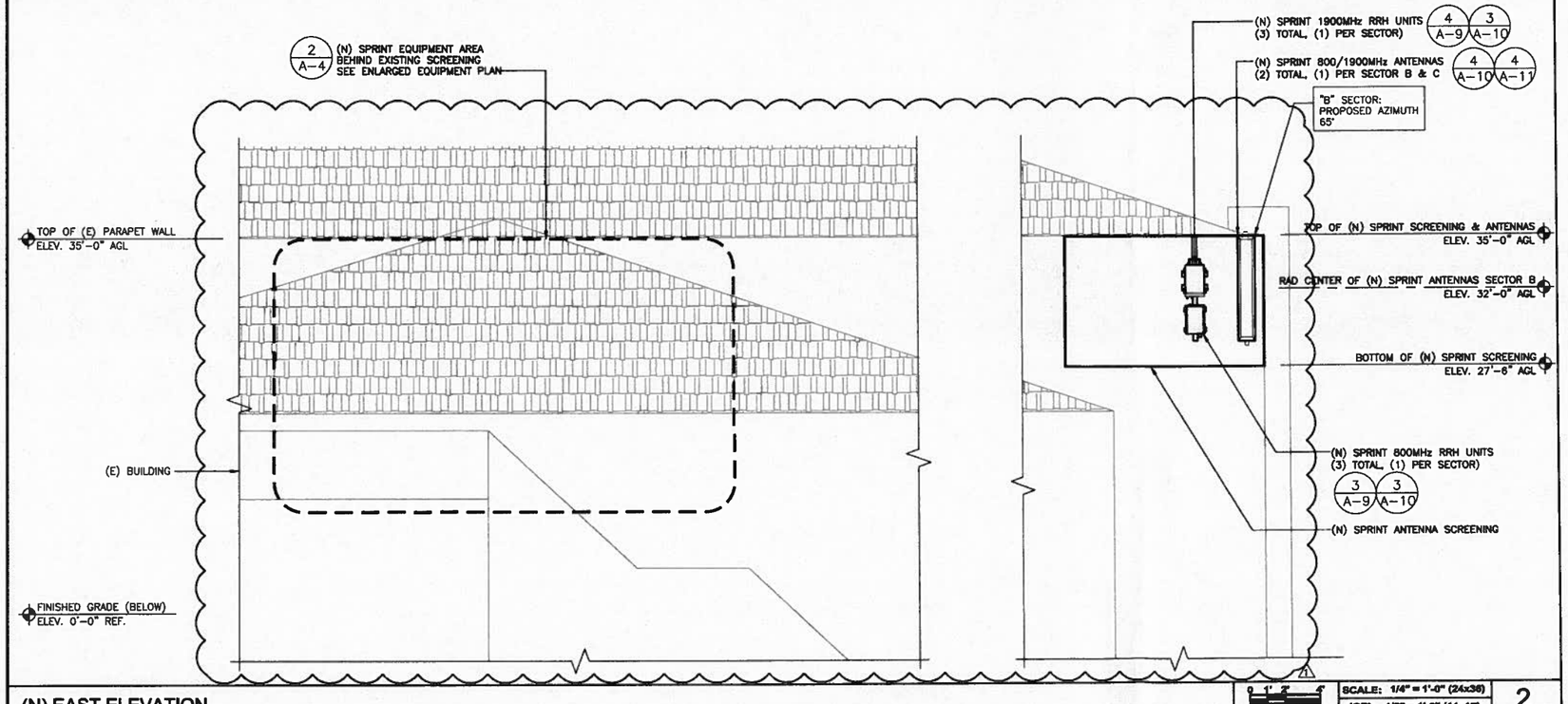
REVISION: F



(E) EAST ELEVATION

SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17)

1



(N) EAST ELEVATION

SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17)

2

NOTES:
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4. COLOR CODE ALL TOP AND BOTTOM GROUND KITS WITH 1" WIDE BANDS OF COLORED TAPE WITH 1/2" SEPARATION BETWEEN BANDS.
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Sprint

Alcatel·Lucent

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CARLSBAD, CA 92008
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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE:

02/10/12

ISSUED FOR:

100% CD

REVISIONS

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1	10/9/12	CITY COMMENTS	XS
2	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

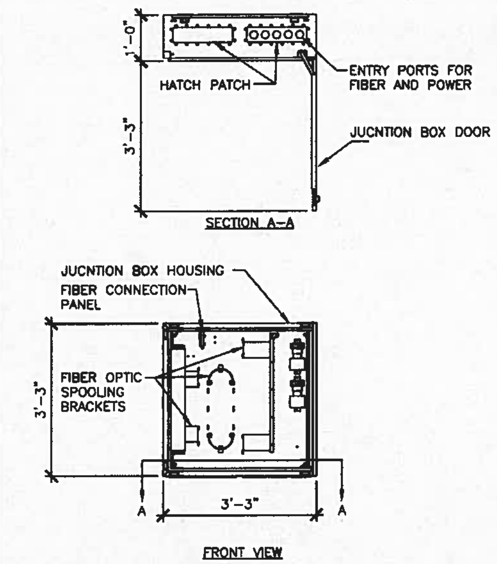
LICENSED ARCHITECT
JASPER POPOWICH
No. C-27498
Ren. 4-30-13
STATE OF CALIFORNIA

SHEET TITLE:

(E) & (N) EAST ELEVATIONS

SHEET NUMBER: A-8

REVISION: F

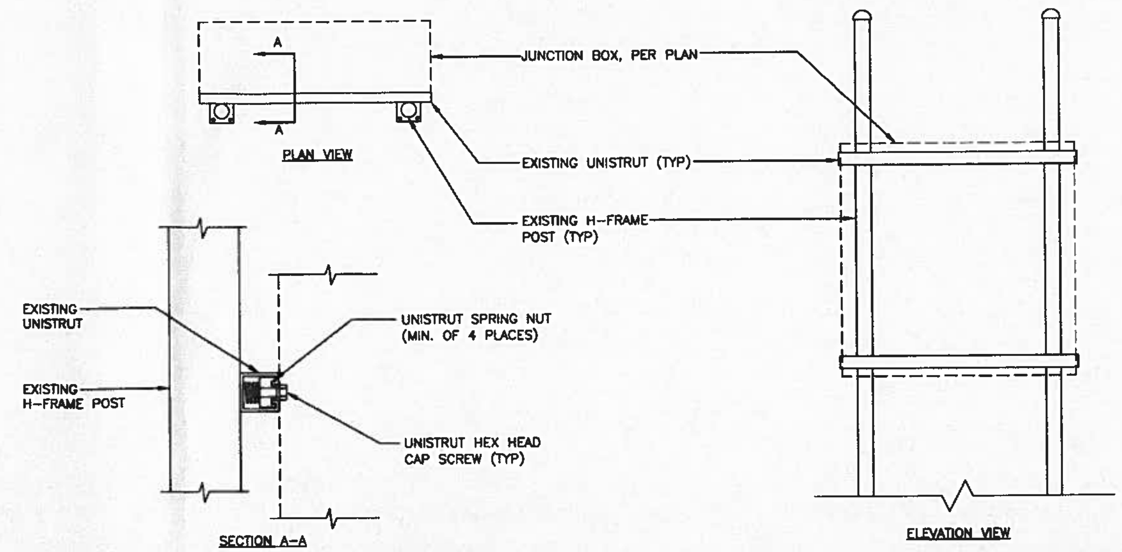


NOTE:

1. UNLESS OTHERWISE SPECIFIED, PRIMARY DIMENSIONS ARE IN MILLIMETERS, SECONDARY DIMENSIONS ARE EXPRESSED IN INCHES AND ARE ENCLOSED IN BRACKERS. NON-LIMITED DIMENSIONS, OTHER THAN THE SIZE OF RAW MATERIAL, SHALL BE HELD TO ±0.75 [.03] EXCEPT AS FOLLOWS:
   EDGE TO HOLE: ±0.35 [.015]
   FLANGE TO HOLE: ±0.5 [.020]
   BETWEEN HOLES:
   IN FLATE: ±0.15 [.005]
   BETWEEN FLANGES: ±0.5 [.020]
   HOLES:
   STANDARD: ±0.15 [.005]
   PRESS FIT: +0.08 -0.00 [+.003-.000]
   ANGLES: ±1 DEGREES
2. THIS IS A PRO/ENGINEER PARAMETRIC, COMPUTER-GENERATED DRAWING. ANY CHANGES MUST BE MADE WITHIN THE FILES.
3. THIS DRAWING COMPLEMENTS THE ELECTRONIC DATA FILES LISTED IN THE PRO/I REVISION FILE TABLE. BOTH ELECTRONIC DATA DILES AND THE DRAWING ARE REQUIRED FOR COMPLETE MANUFACTURING INFORMATION.
4. DIMENSIONS NOT INDICATED AS REFERENCE ARE COORDINATED OR CRITICAL, TOLERANCES FOR THESE DIMENSIONS ARE STATED ON THE DRAWING.
5. TOLERANCES ARE NOT CUMULATIVE.
6. REMOVE ALL BURRS AND SHARP EDGES.
7. UNLESS OTHERWISE SPECIFIED, THE MAIMUM INSIDE BENDING RADII SHALL BE EQUAL TO THE THICKNESS OF THE MATERIAL BEING FORMED.
8. THIS PART/ASSEMBLY SHALL CONFORM TO ALCATEL-LUCENT BANNED SUBSTANCE AND ENVIRONMENTAL HAZARDOUS SUBSTANCE REQUIREMENTS DOCUMNETD IN 1AA 00266 0035 ASZZA.
9. ALL MOUNTING MATERIAL (SCREWS, WASHERS AND NUTS) SHALL CONFORM TO ANSI AND ASME STANDARDS.
10. PAPER PULL TEST A TRIP OF PAPER IS PLACED BETWEEN THE CABINET J FLANGE AND THE DOOR GASKET WHILE THE DOOR, FULLY, THE PAPER IS PULLED GENTLY. THE PAPER SHALL OFFER SIGNIFICANT RESISTANCE, GREATER THAN 2 PUNDS (0.9KG), WHICH INDICATES ADQUATE GASKET COMPRESSION. LOWER OR NO RESISTANCE INDICATES POOR GASKET COMPRESSION AND REQUIRES CORRECTION. THE STRIP OF PAPER SHOULD BE 25MM (1.0 INCH) WIDE. IT SHOULD CONSIST OF CONVENTIONAL PAPER (~75 GRAMS/METERS), .076MM(.003 INCHES) TO .088(.0035 INCHES) THICK. PAPER TESTING IS DONE ON FRONT DOOR WHERE GASKET COMPRESSION IS AT MINIMUM)RIGHT SIDE TOP AND BOTTOM CORNERS, ON THE HORIZONTAL EDGES, AND MIDWAY BETWEEN EACH OF THE PAWLS.
11. VELCRO BELT SHALL BE CUT TO 60MM (23.5 INCH)

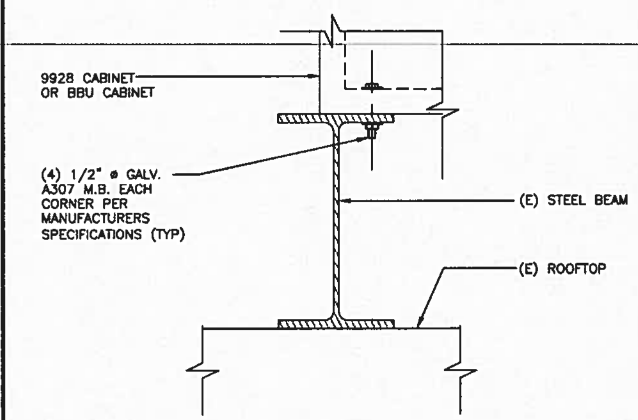
(N) FIBER JUNCTION BOX

SCALE N.T.S. — 8



JUNCTION BOX MOUNTING TO (E) H-FRAME

SCALE N.T.S. — 7

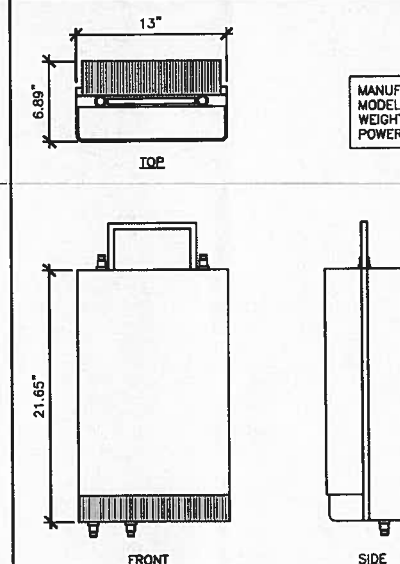


CABINET MOUNTING

SCALE N.T.S. — 6

NOT USED

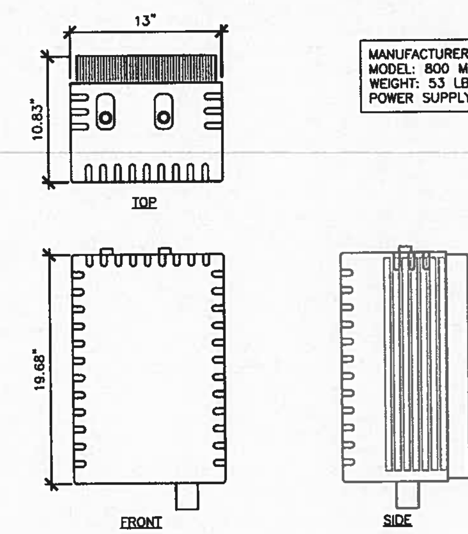
SCALE N.T.S. — 5



MANUFACTURER: PANASONIC
MODEL: PCS 1900 MHz, 2x40W
WEIGHT: 44 LBS
POWER SUPPLY: -48 VDC

1900 MHz RRH

4



MANUFACTURER: ANDREW
MODEL: 800 MHz, iDEN 2x50W
WEIGHT: 53 LBS
POWER SUPPLY: -48 VDC

800 MHz RRH

3

MANUFACTURER: ANDREW (COMMSCOPE)
MODEL: 60ECv2

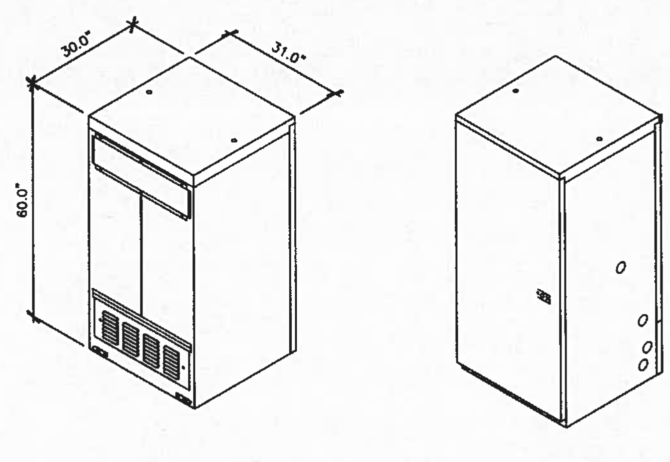
CABINET DIMENSIONS:
HEIGHT: 60 IN. (152.4 CM)
WIDTH: 31 IN. (78.7 CM)
DEPTH: 30 IN. (76.2 CM)

CABINET OPERATING TEMPERATURE RANGE:
-40°C TO 46°C

WEIGHT:
CABINET: 425#

BATTERIES: 100# EACH
(20 BATTERIES MAX - 2,000 POUNDS MAX WEIGHT)

CABINET MAX WEIGHT: 2,425#



(N) 60ECv2 BATTERY BACKUP CABINET (BBU)

SCALE N.T.S. — 2

MANUFACTURER: ALCATEL-LUCENT

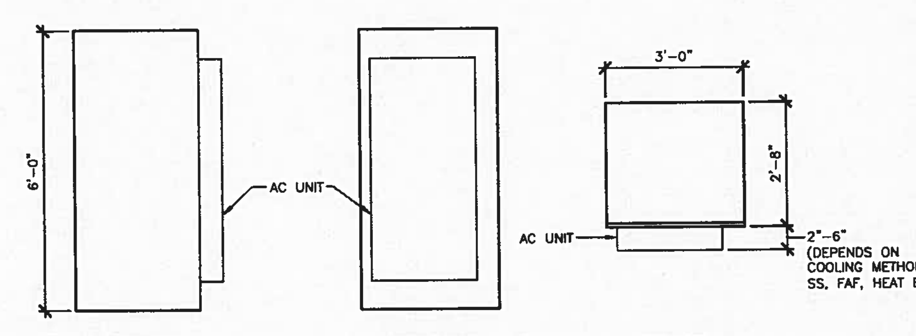
MODEL #: 9928

MAIN CABINET DIMENSIONS:

HEIGHT: 72"
WIDTH: 35.5"
DEPTH: 32"

ESTIMATED MAX WEIGHT:

FACTORY: 1190 LBS
UPGRADED: 1390 LBS



(N) MODCELL BTS CABINET (9928)

SCALE N.T.S. — 1

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

Sprint

Alcatel-Lucent

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5865 AVENIDA ENCINAS
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PROJECT INFORMATION:

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LINDERO

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AGOURA

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LICENSURE:

LICENSED ARCHITECT
No. C-27498
Ren. 4-30-13
STATE OF CALIFORNIA

SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER: A-9

REVISION: F

PROPOSED ANTENNA CONFIGURATION AND SCHEDULE

SECTOR A	AZIMUTH	RADCENTER	# OF ANTENNAS	VENDOR	MODEL	MECH. TILT	RET	COMBINER	RRH	FIBER OPTIC	FIBER LENGTH
800MHz	350°	33'-0"	1	POWERWAVE	7481.00-A	0	-8	NA	(1) 800MHz, (1) 1900MHz	(1) 1-1/4" HYBRIFLEX HB114-1-08U4-M5F	101'-0"
1900MHz	350°	33'-0"	1	POWERWAVE	7762.00-A	0	0				

SECTOR B	AZIMUTH	RADCENTER	# OF ANTENNAS	VENDOR	MODEL	MECH. TILT	RET	COMBINER	RRH	FIBER OPTIC	FIBER LENGTH
800MHz	65°	32'-0"	1	RFS	APXVSPP18-C-A20	0	-8	NA	(1) 800MHz, (1) 1900MHz	(1) 1-1/4" HYBRIFLEX HB114-1-08U4-M5F	136'-0"
1900MHz						0	0				

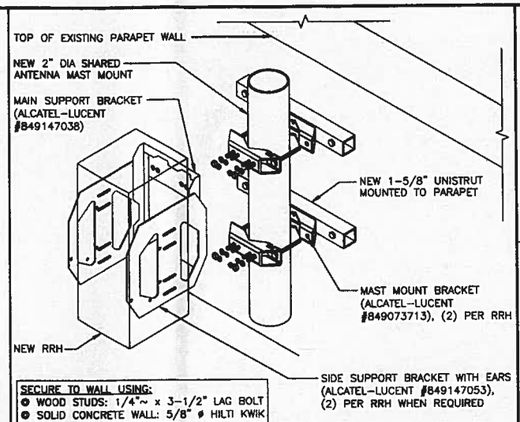
SECTOR C	AZIMUTH	RADCENTER	# OF ANTENNAS	VENDOR	MODEL	MECH. TILT	RET	COMBINER	RRH	FIBER OPTIC	FIBER LENGTH
800MHz	270°	32'-0"	1	RFS	APXVSPP18-C-A20	0	0	NA	(1) 800MHz, (1) 1900MHz	(1) 1-1/4" HYBRIFLEX HB114-1-08U4-M5F	149'-0"
1900MHz						0	0				

RFDS DATED: 11/09/2012

NOTE:
CONTRACTOR TO SEE "FINAL" RFDS FOR BUILD.

(N) ANTENNA CONFIGURATION AND SCHEDULE — SCALE N.T.S. — 11

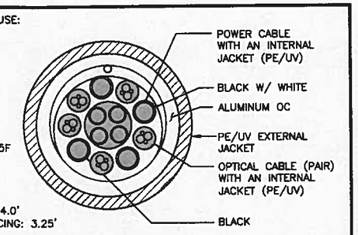
RRH MOUNTING — SCALE N.T.S. — 10



SECURE TO WALL USING:
- WOOD STUDS: 1/4"~ x 3-1/2" LAG BOLT
- SOLID CONCRETE WALL: 5/8" ø HILTI KWIK BOLT TZ, 4" MIN EMBED (ICC ESR #1917)
- HOLLOW CMU: HILTI HH C20 EPOXY W/ MIN. 6" EMB (ICBO#4016)

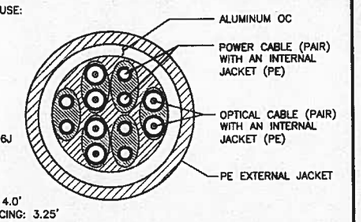
HYBRIFLEX CABLE — SCALE N.T.S. — 9

*FOR RUNS OVER 201 FT. USE:
H114-1-0813U4-M5F



INDOOR CABLE RUNS:
MANUFACTURER: RFS
MODEL: HB114-1-08U4-M5F
WEIGHT (LB/FT): 1.30
MINIMUM BENDING RADIUS
SINGLE BENDING: 8"
REPEATED BENDING: 20"
MAXIMUM CLAMP SPACING: 4.0'
RECOMMENDED CLAMP SPACING: 3.25'

*FOR RUNS OVER 201 FT. USE:
H114-1-0813U4-M6J



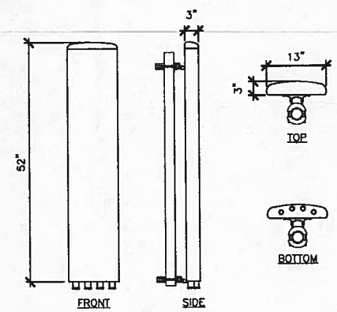
OUTDOOR CABLE RUNS:
MANUFACTURER: RFS
MODEL: HB114-1-08U4-M6J
WEIGHT (LB/FT): 1.30
MINIMUM BENDING RADIUS
SINGLE BENDING: 8"
REPEATED BENDING: 20"
MAXIMUM CLAMP SPACING: 4.0'
RECOMMENDED CLAMP SPACING: 3.25'

NOT USED — SCALE N.T.S. — 8

NOT USED — SCALE N.T.S. — 7

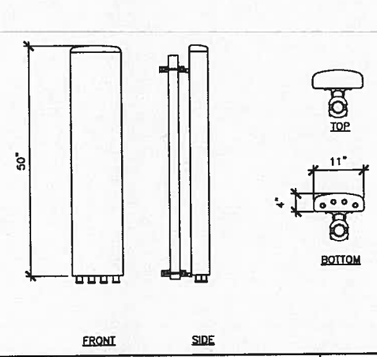
(N) PANEL ANTENNA (1900MHz) — SCALE N.T.S. — 6

MANUFACTURER: POWERWAVE
MODEL: 7762.00 SPRINT
WEIGHT (W/ BRACKETS): 51.8 LBS
WEIGHT (W/O BRACKETS): 39.6 LBS
DIMENSIONS: (HxWxD) 4'-4"x1'-1"x3"
FREQUENCY: REFER TO RF DATA SHEET

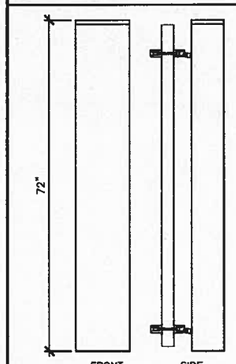


(N) PANEL ANTENNA (800MHz) — SCALE N.T.S. — 5

MANUFACTURER: POWERWAVE
MODEL: 7481.00 SPRINT
WEIGHT (W/ BRACKETS): 40.7 LBS
DIMENSIONS (HxWxD): 50"x11"x4"
FREQUENCY: REFER TO RF DATA SHEET

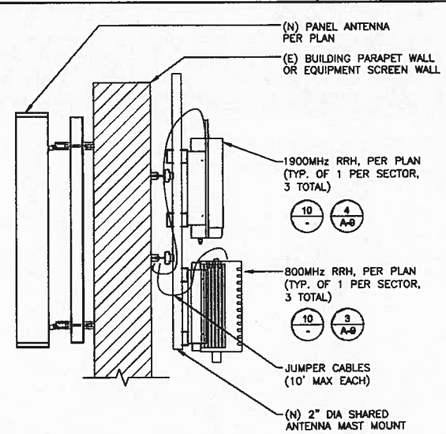


(N) PANEL ANTENNA 800/1900 MHz — SCALE N.T.S. — 4



MANUFACTURER: RFS
MODEL: APXVSPP18-C
WEIGHT W/O MOUNTING HARDWARE: 57 LBS
DIMENSIONS: HxWxD: 72.0"x11.8"x7.0"
FREQUENCY: REFER TO RF DATA SHEET

800/1900MHz MOUNTING — SCALE N.T.S. — 3



NOT USED — SCALE N.T.S. — 2

NOT USED — SCALE N.T.S. — 1

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5965 AVENIDA ENCINAS
CARLSBAD, CA 92008
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760.795.5200

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE:

02/10/12

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
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D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
1	10/9/12	CITY COMMENTS	XS
2	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER: A-10

REVISION: F

NOT USED

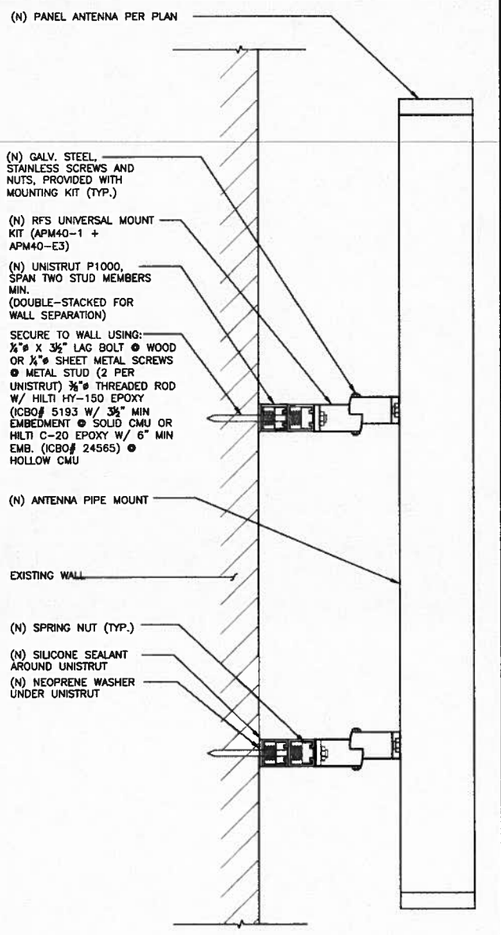
SCALE N.T.S. 9

NOT USED

SCALE N.T.S. 8

NOT USED

SCALE N.T.S. 7

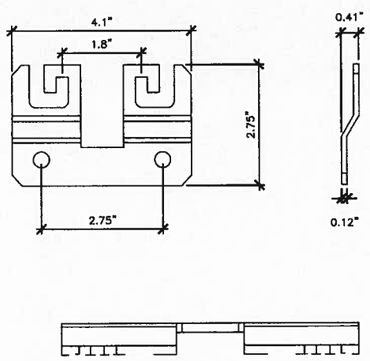


RFS UNIVERSAL FLUSH MOUNT KIT

SCALE N.T.S. 4

NOT USED

SCALE N.T.S. 6

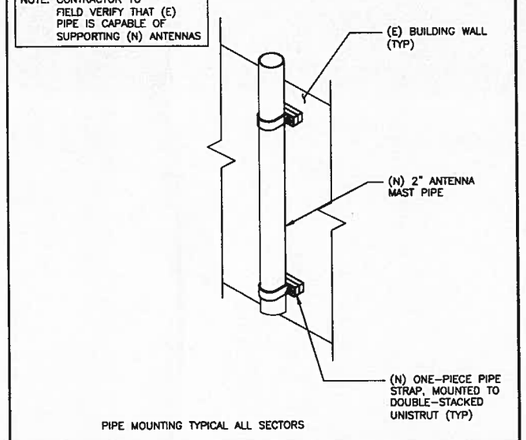


POWERWAVE FLUSH MOUNT CLAMP (7455)

3

NOT USED

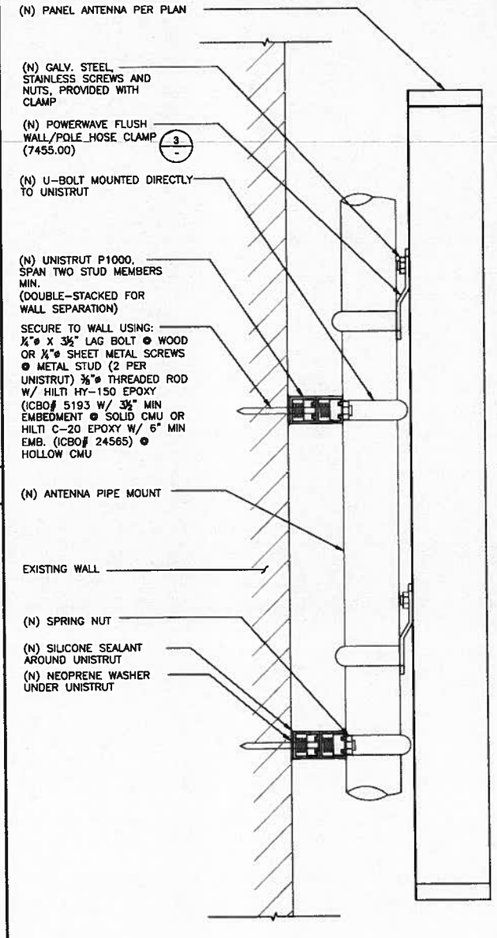
SCALE N.T.S. 5



PIPE MOUNTING TYPICAL ALL SECTORS

PIPE MOUNTING

SCALE N.T.S. 2



POWERWAVE FLUSH MOUNTING

SCALE N.T.S. 1

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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

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02/10/12

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E	02/10/12	CLIENT REVISIONS	AMF
1	10/9/12	CITY COMMENTS	XS
2	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

LICENSED ARCHITECT HECTOR POPOWICH No. C-27498 Ren 4-30-13 STATE OF CALIFORNIA

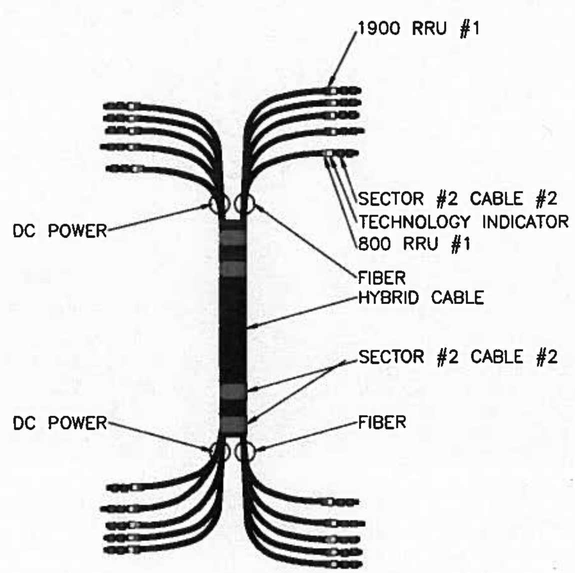
SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER: A-11

REVISION: F

5 NOT USED
SCALE: N.T.S.



3 HYBRID CABLE COLOR CODE
SCALE: N.T.S.

TYPICAL COAX CABLE COLOR CODING SCHEME

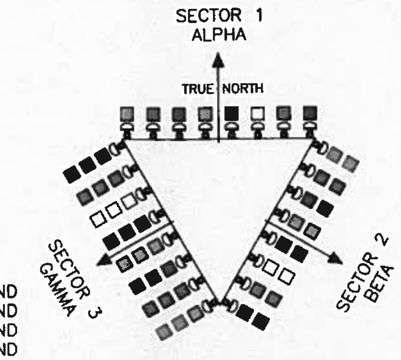
SECTOR	CABLE	FIRST RING	SECOND RING	THIRD RING
1 ALPHA	1	GREEN	NO TAPE	NO TAPE
1	2	BLUE	NO TAPE	NO TAPE
1	3	BROWN	NO TAPE	NO TAPE
1	4	WHITE	NO TAPE	NO TAPE
1	5	RED	NO TAPE	NO TAPE
1	6	SLATE	NO TAPE	NO TAPE
1	7	PURPLE	NO TAPE	NO TAPE
1	8	ORANGE	NO TAPE	NO TAPE
2 BETA	1	GREEN	GREEN	NO TAPE
2	2	BLUE	BLUE	NO TAPE
2	3	BROWN	BROWN	NO TAPE
2	4	WHITE	WHITE	NO TAPE
2	5	RED	RED	NO TAPE
2	6	SLATE	SLATE	NO TAPE
2	7	PURPLE	PURPLE	NO TAPE
2	8	ORANGE	ORANGE	NO TAPE
3 GAMMA	1	GREEN	GREEN	GREEN
3	2	BLUE	BLUE	BLUE
3	3	BROWN	BROWN	BROWN
3	4	WHITE	WHITE	WHITE
3	5	RED	RED	RED
3	6	SLATE	SLATE	SLATE
3	7	PURPLE	PURPLE	PURPLE
3	8	ORANGE	ORANGE	ORANGE

4 COAXIAL CABLE COLOR CODE
SCALE: N.T.S.

TECHNOLOGY COLOR CODE	FIRST RING	SECOND RING
800 #1	YELLOW	GREEN
1900 #1	YELLOW	RED
1900 #2	YELLOW	BROWN
RESERVED	YELLOW	BLUE
RESERVED	YELLOW	SLATE
RESERVED	YELLOW	ORANGE
RESERVED	YELLOW	WHITE

2 FREQUENCY COLOR CODE
SCALE: N.T.S.

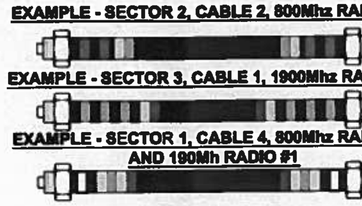
ANTENNA AND CABLE COLOR CODING
(3 SECTORED / MULTIPLE RF CHANNELS)
ASSUMING 8 LINES AND ANTENNAS



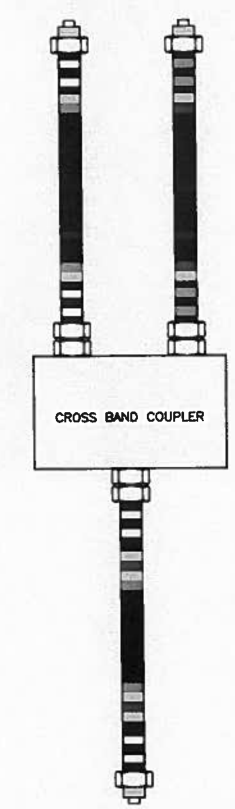
SECTOR LEGEND
SECTOR 1 => 1 BAND
SECTOR 2 => 2 BAND
SECTOR 3 => 3 BAND
SECTOR 4 => 4 BAND
SECTOR 5 => 5 BAND
SECTOR 6 => 6 BAND

TECHNOLOGY COLOR CODE

EXAMPLE - SECTOR 2, CABLE 2, 800Mhz RADIO #1
EXAMPLE - SECTOR 3, CABLE 1, 1900Mhz RADIO #1
EXAMPLE - SECTOR 1, CABLE 4, 800Mhz RADIO #1 AND 190Mh RADIO #1



1. COLOR BAND TO BE 2" WIDE ON MAIN LINE.
2. SPACING TO BE 1" BETWEEN BANDS AND 2" BETWEEN LINE AND TECHNOLOGY BANDS. NO SPACE BETWEEN TECHNOLOGY COLOR BANDS.
3. COLOR BAND ON JUMPERS 1" WIDE W/ 1" SPACE.
4. START COLOR BANDS 2" BEYOND WEATHERPROOFING.
5. START SECTOR COLOR NEXT TO END CONNECTOR.



1 ANTENNA & CABLE COLOR CODE
SCALE: N.T.S.

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5865 AVENIDA ENCINAS
CARLSBAD, CA 92008
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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO
LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

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02/10/12

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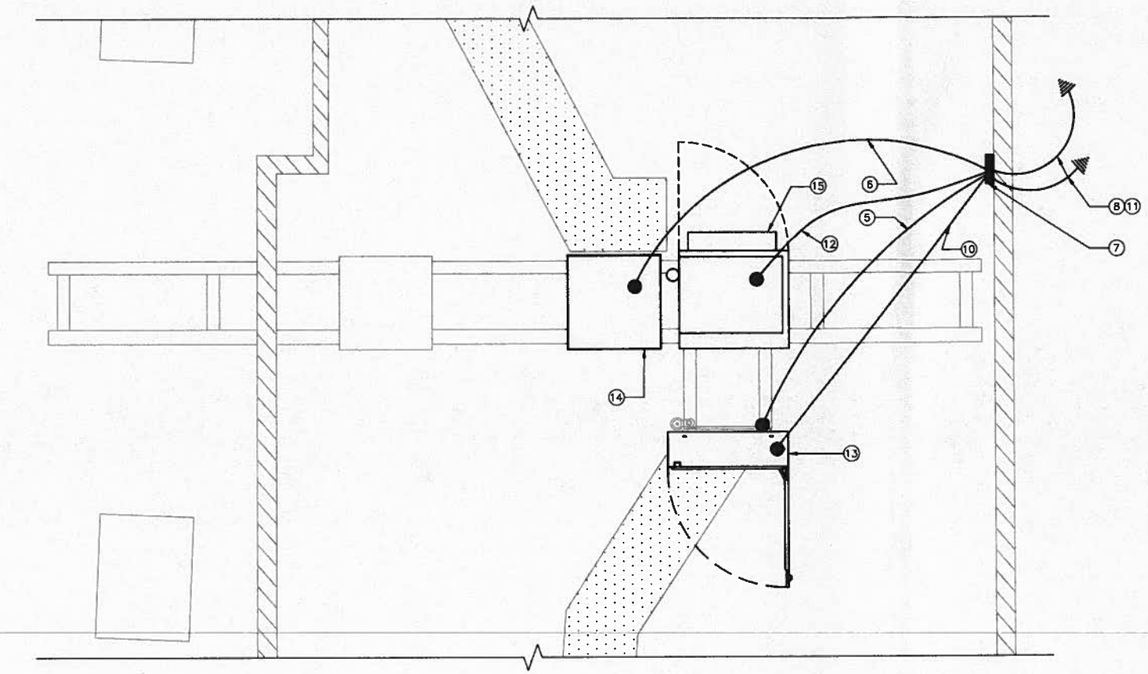
△	10/9/12	CITY COMMENTS	XS
△	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

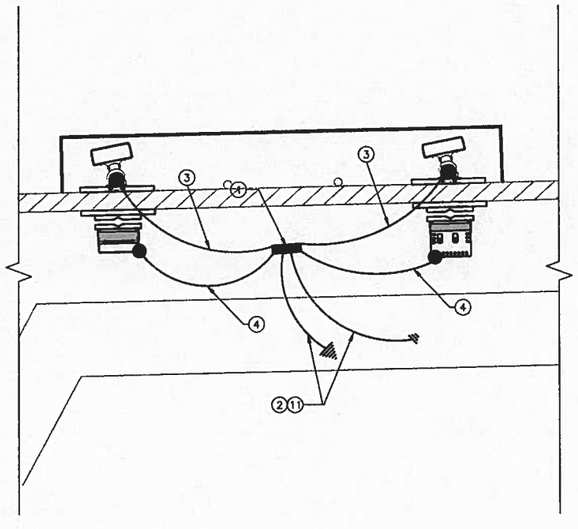
SHEET TITLE:
(N) COLOR CODING

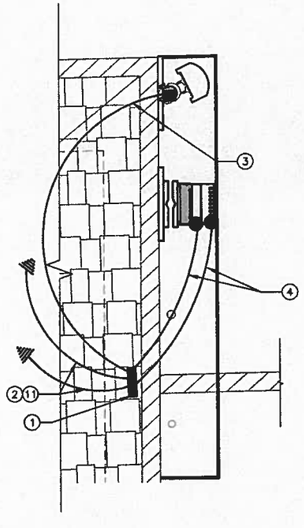
SHEET NUMBER: A-12
REVISION: F

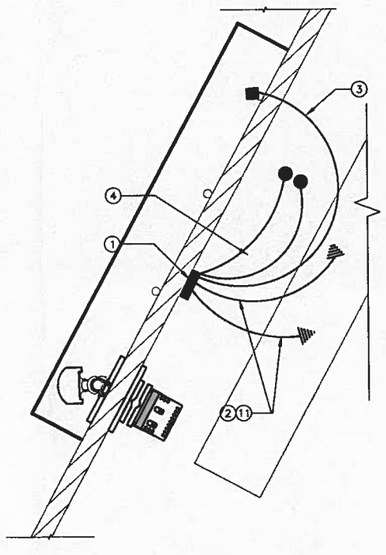


EQUIPMENT SCHEMATIC GROUNDING PLAN

SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17) — 2







ANTENNA SCHEMATIC GROUNDING PLAN

SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17) — 1

GROUNDING KEYED NOTES:

1. ANTENNA GROUND BUSS BAR NEAR ANTENNA MOUNTS WITH COAX GROUND KIT. SEE DETAIL 4/E-2 FOR GROUND BAR CONSTRUCTION, SEE DETAIL 3/E-2 FOR GROUND WIRE CONNECTIONS, AND SEE DETAIL 2/E-2 FOR COAX GROUNDING.
2. #6 AWG GROUND FROM ANTENNA GROUND BUSS BAR TO TIE INTO (E) ROOF GROUNDING SYSTEM (TYP OF (2) PLACES)
3. #6 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BUSS BAR (TYP OF 6)
4. #6 AWG GROUND FROM RRH UNITS TO ANTENNA GROUND BUSS BAR
5. #6 AWG GROUND FROM H-FRAME TO TIE INTO (E) GROUND BUSS BAR.
6. #6 AWG GROUND FROM BBU CABINET TO TIE INTO (E) GROUND BUSS BAR.
7. (E) GROUND BUSS BAR NEAR EQUIPMENT WITH COAX GROUND KIT. SEE DETAIL 4/E-2 FOR GROUND BAR CONSTRUCTION, SEE DETAIL 3/E-2 FOR GROUND WIRE CONNECTIONS, AND SEE DETAIL 2/E-2 FOR COAX GROUNDING.
8. #6 AWG GROUND FROM (E) GROUND BUS BAR TO TIE INTO (E) ROOF GROUNDING SYSTEM (TYP OF (2) PLACES)
9. CAD WELD (TYP).
10. #6 AWG GROUND FROM FIBER JUNCTION BOX TO TIE INTO (E) GROUND BUSS BAR.
11. GC SHALL VERIFY (2) #6 AWG THHN GROUND LEADS FROM EACH OF TWO REMOTE INDIVIDUAL BUSES TO BE COLLECTED AT ONE MAIN MGB AND FURTHER ROUTED TO (E) BUILDING STEEL OR OTHER (E) DESIGNATED BUILDING GROUNDING SYSTEM (FINAL DESIGNATED POINT OF GROUNDING TO BE COORDINATED BETWEEN CM, GC AND BUILDING OWNER).
12. #6 AWG GROUND FROM MODCELL CABINET TO TIE INTO (E) GROUND BUSS BAR.
13. (N) SPRINT FIBER JUNCTION BOX MOUNTED ON (E) H-FRAME. CONTRACTOR TO FIELD VERIFY LOCATION DURING CONSTRUCTION
14. (N) SPRINT BATTERY CABINET (60ECV2) TO BE INSTALLED
15. (N) SPRINT MODCELL BTS CABINET (9928) TO BE INSTALLED

ALL ROOF TOP GROUND LEADS SHALL BE THERMOPLASTIC HIGH HEAT-RESISTANT NYLON-COATED (THHN).

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊗	COPPER GROUND ROD	⊠	TEST WELL
●	MECHANICAL CONNECTION	▬	GROUND BAR
■	CADWELD CONNECTION		
	FIELD VERIFY & TIE INTO (E) GROUNDING SYSTEM		

GROUNDING NOTES & LEGEND

GENERAL GROUNDING NOTES

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURERS PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.
3. ALL GROUND CONNECTIONS SHALL BE CADWELD. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE. GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY SPRINT WIRELESS, LLC. REPRESENTATIVE.
5. REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
6. CONTRACTOR TO ABIDE BY ALL ALU / SPRINT SAFETY STANDARDS DURING SITE CONSTRUCTION.
7. CONTRACTOR SHALL REFER TO ALU / SPRINT STANDARDS FOR GROUNDING CONNECTIONS & INSTALLATION METHODS.
8. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED SPRINT MOBILITY REPRESENTATIVE. PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RING
9. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.

GROUNDING ROD NOTES

(WHERE APPLICABLE)
ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.

2 POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND (E) COMMUNICATIONS FACILITY.

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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

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NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

LICENSED ARCHITECT — ALEXANDER POPOWYCH — No. C-27498 Ren. 4-30-13 — STATE OF CALIFORNIA

SHEET TITLE:

SCHEMATIC GROUNDING PLAN

SHEET NUMBER: E-1

REVISION: F

NOTES:

EXISTING SINGLE PHASE, 120/240 VAC, 60HZ SERVICE WILL PROVIDE SUFFICENT POWER REQUIREMENTS FOR NEW PROPOSED SPRINT EQUIPMENT, CABLING & ANTENNA UPGRADES

GC SHALL COORDINATE WITH ELECTRICIAN PRIOR TO START OF CONSTRUCTION; AS NO ADDITIONAL POWER AND TELEPHONE CONDUIT SHALL BE INSTALLED EXCEPT FOR CABLING WITHIN CONDUIT FROM EACH OF (1) NEW BBU TO THE EXISTING POWER CABINET AND FROM THE NEW LUCENT MOD CELL 9928 EQUIPMENT CABINET TO EACH OF (12) RRH UNITS VIA NEW SINGLE HYBRIFLEX FIBER OPTIC CABLING ROUTED FROM THE EXISTING SPRINT EQUIPMENT PLATFORM TO ALL ANTENNA SECTORS

FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY PANEL MANUFACTURER.

ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C., UTILITY COMPANY, AND LOCAL CODE REQUIREMENTS.

EXISTING CONDUIT WITH ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC.) NECESSARY FOR NEC COMPLIANT CONNECTIONS.

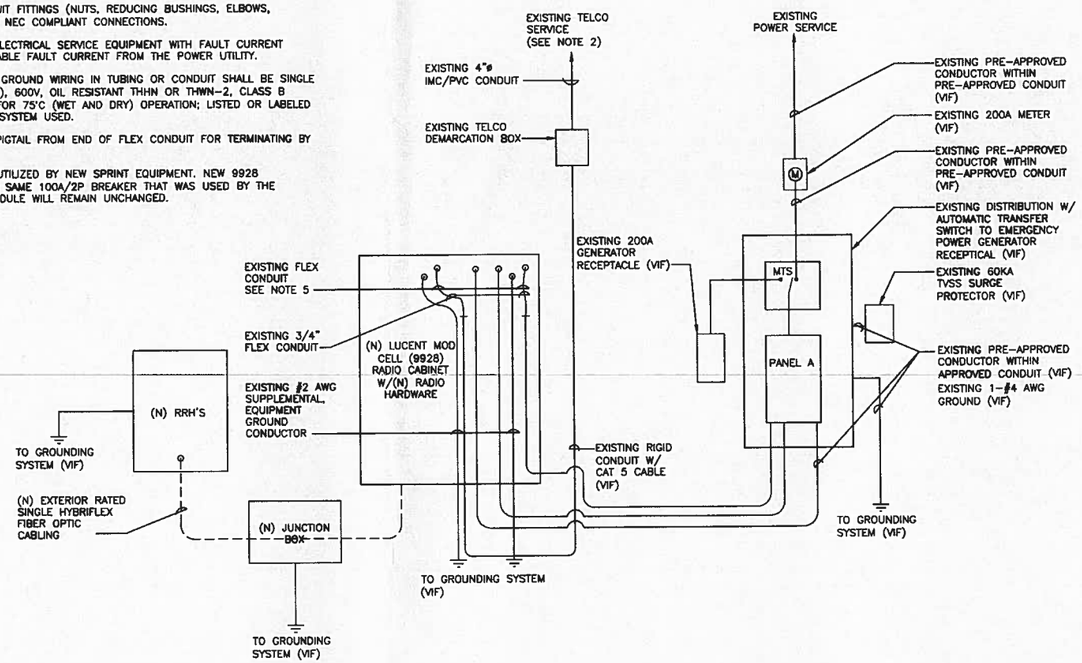
SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.

POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#10 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 75'C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.

CUT, COIL AND TAPE A 10 FOOT PIGTAIL FROM END OF FLEX CONDUIT FOR TERMINATING BY MANUFACTURER.

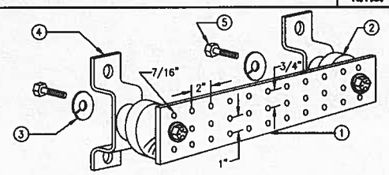
MAIN PANEL IS TO REMAIN & BE UTILIZED BY NEW SPRINT EQUIPMENT. NEW 9928 EQUIPMENT CABINET WILL USE THE SAME 100A/2P BREAKER THAT WAS USED BY THE REMOVED EQUIPMENT. PANEL SCHEDULE WILL REMAIN UNCHANGED.

NOT USED — SCALE N.T.S. — 7



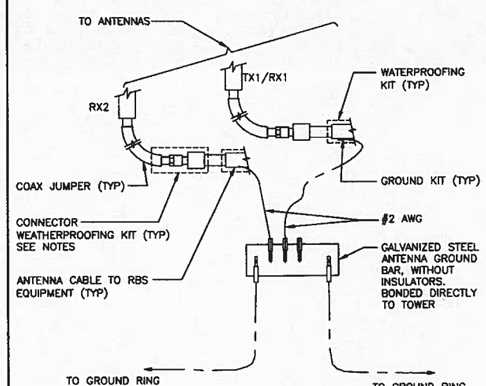
ELECTRICAL ONE LINE DIAGRAM — SCALE N.T.S. — 5

NOT USED — SCALE N.T.S. — 6

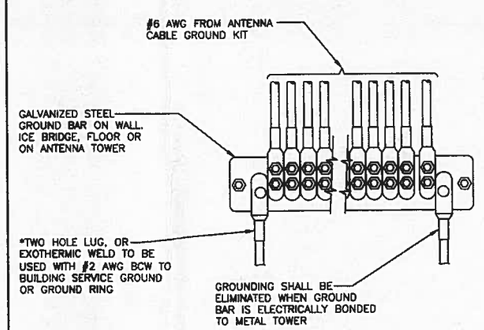


1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-8 OR APPROVED EQUAL
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6056 OR APPROVED EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.
7. NETWORK VISION MMBS DEPLOYMENTS INSTALLED AT LEGACY CDMA OR IDEN SITES SHALL USE THE EXISTING COPPER GROUND BARS IF THEY ARE PRESENT. IF THE COPPER GROUND BARS HAVE BEEN STOLEN THEY SHALL BE REPLACED WITH THE STAINLESS STEEL BAR AF000062 - IMN 010328 FOR MMBS OUTDOOR AND AF000063 - IMN 010330 FOR LEGACY SHELTER CELL SITES

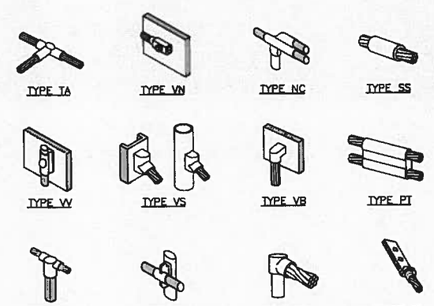
GROUND BAR — SCALE N.T.S. — 4



GROUND CABLE CONNECTION — SCALE N.T.S. — 3



GROUND WIRE INSTALLATION — SCALE N.T.S. — 2



CADWELD GROUNDING CONNECTIONS — SCALE N.T.S. — 1

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Alcatel-Lucent

SAC WIRELESS ENGINEERING GROUP
5985 AVENIDA ENCINAS
CARLSBAD, CA 92008
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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

LINDERO

LA03XC201

30125 AGOURA ROAD
AGOURA HILLS, CA 91301
AGOURA

ISSUE DATE:

02/10/12

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
B	11/23/11	100% CD	LM
C	02/02/12	100% CD	AMF
D	02/10/12	CLIENT REVISIONS	DR
E	02/10/12	CLIENT REVISIONS	AMF
1	10/9/12	CITY COMMENTS	XS
2	10/18/12	CITY COMMENTS	KW
F	12/07/12	DE-SCOPE	CM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

SHEET TITLE:

DETAILS AND ONE LINE DIAGRAM

SHEET NUMBER: E-2

REVISION: F

VICINITY MAP - PHOTOSIMULATION VIEWPOINTS

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PHOTOSIMULATION VIEWPOINT 1

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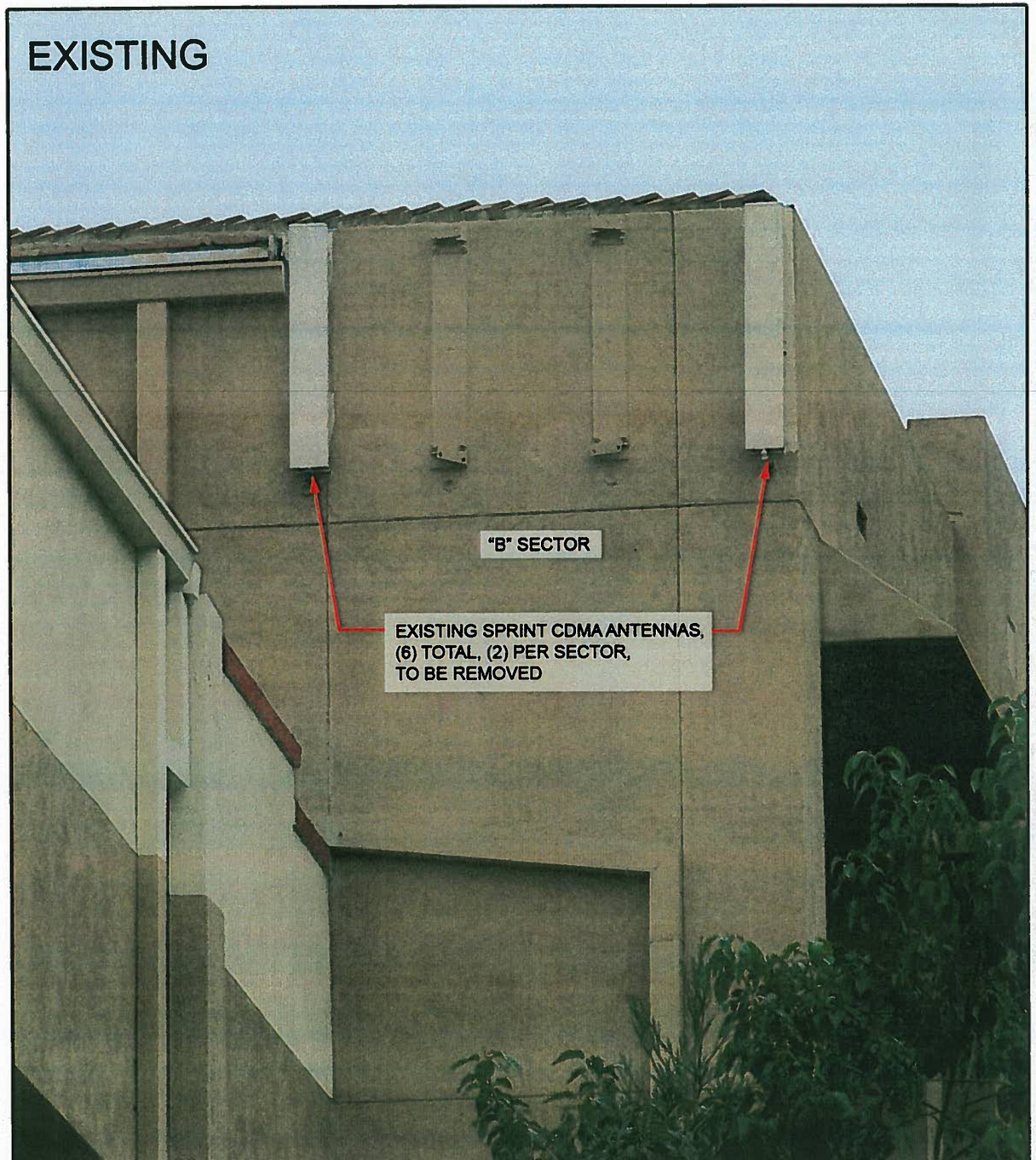

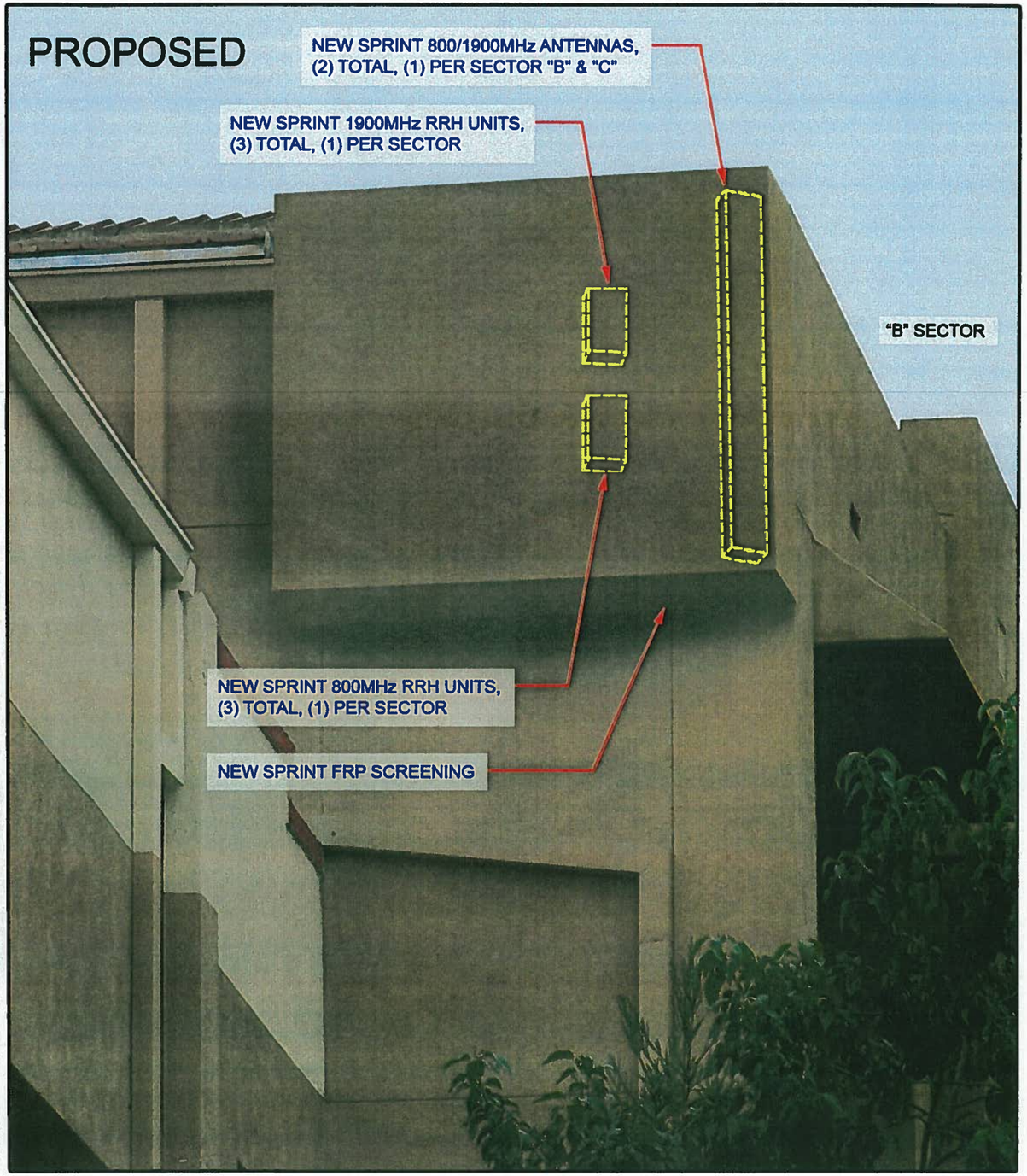

PHOTOSIMULATION VIEWPOINT 2

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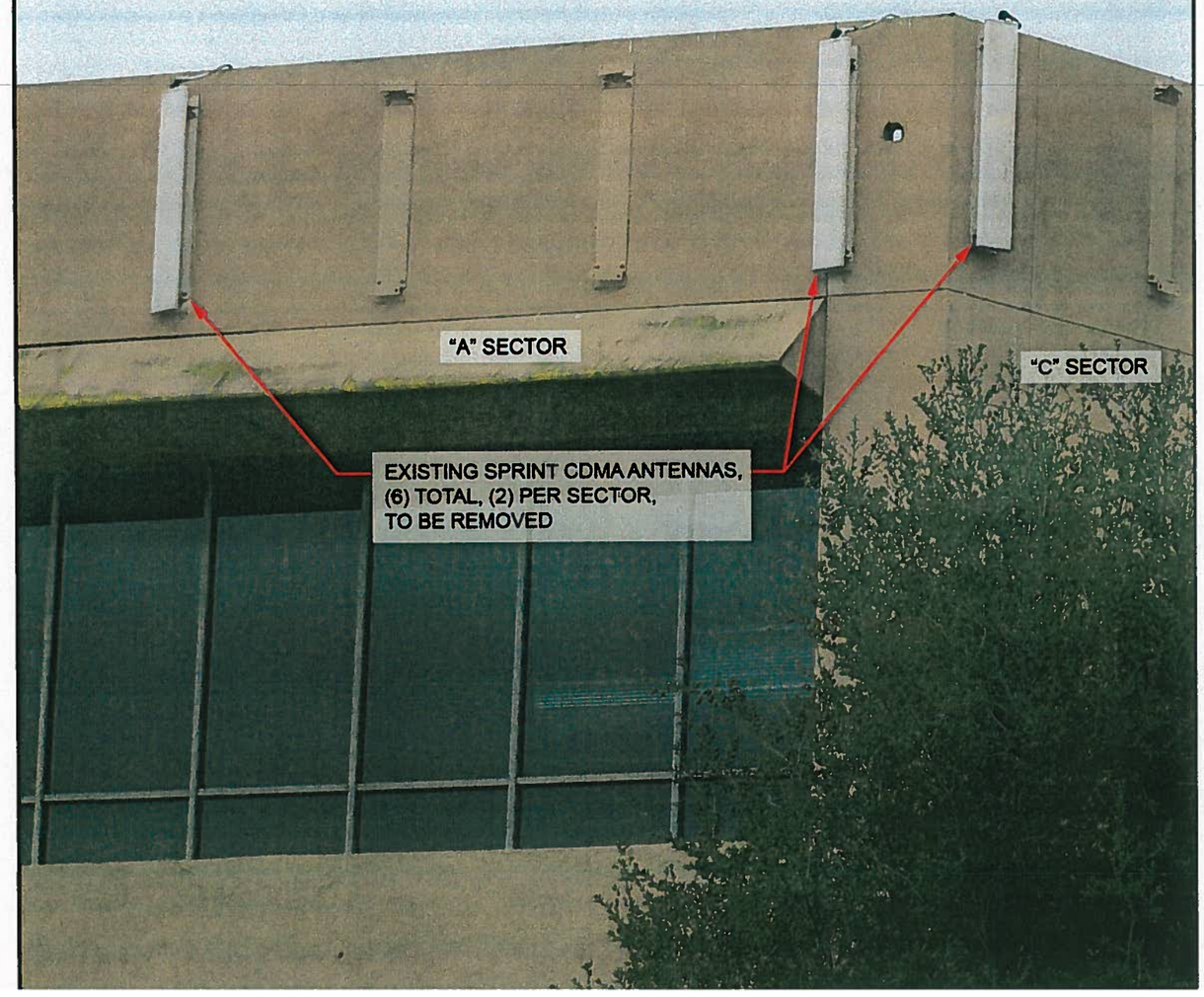
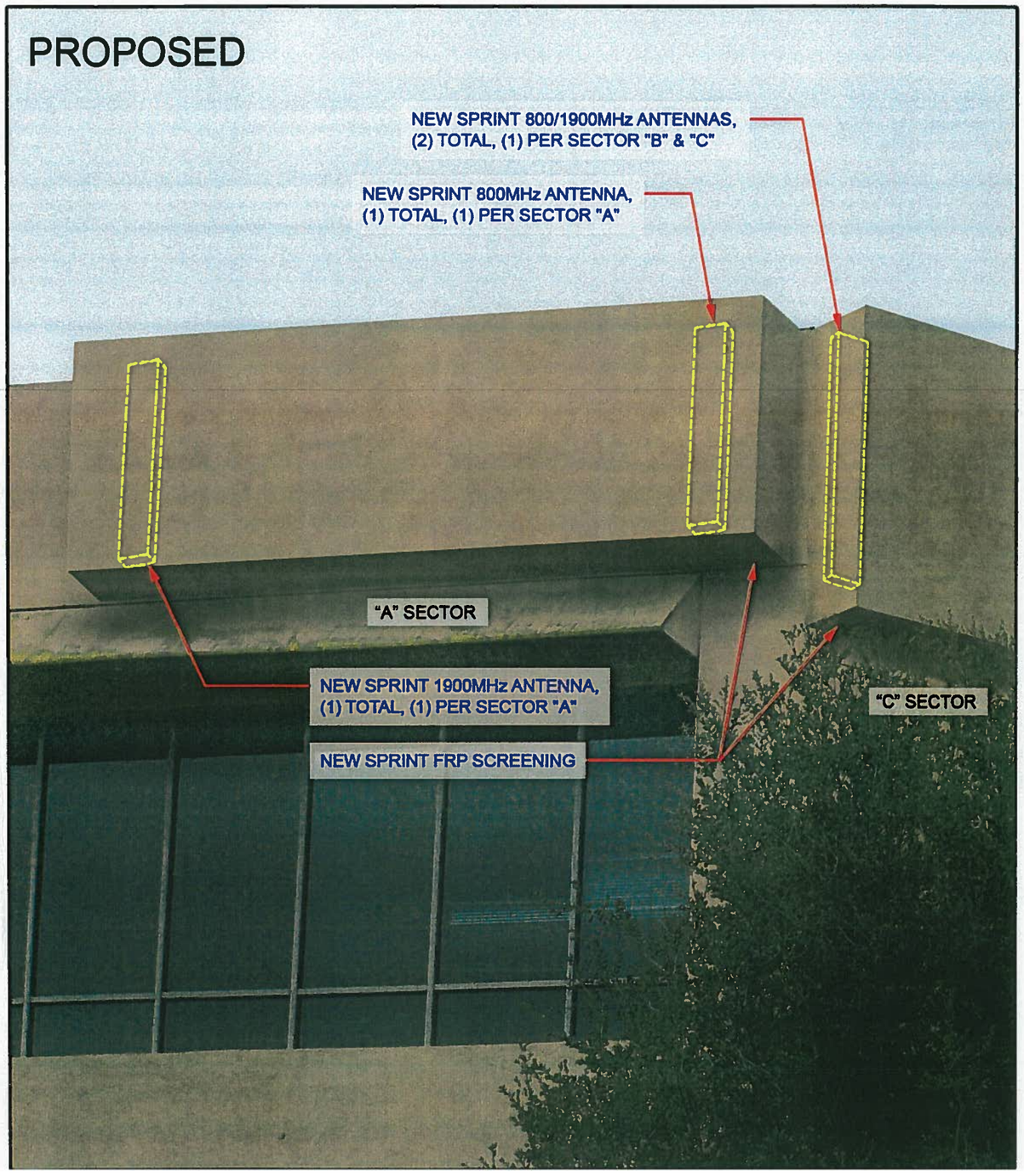
EXISTING



PROPOSED



PHOTOSIMULATION VIEWPOINT 3

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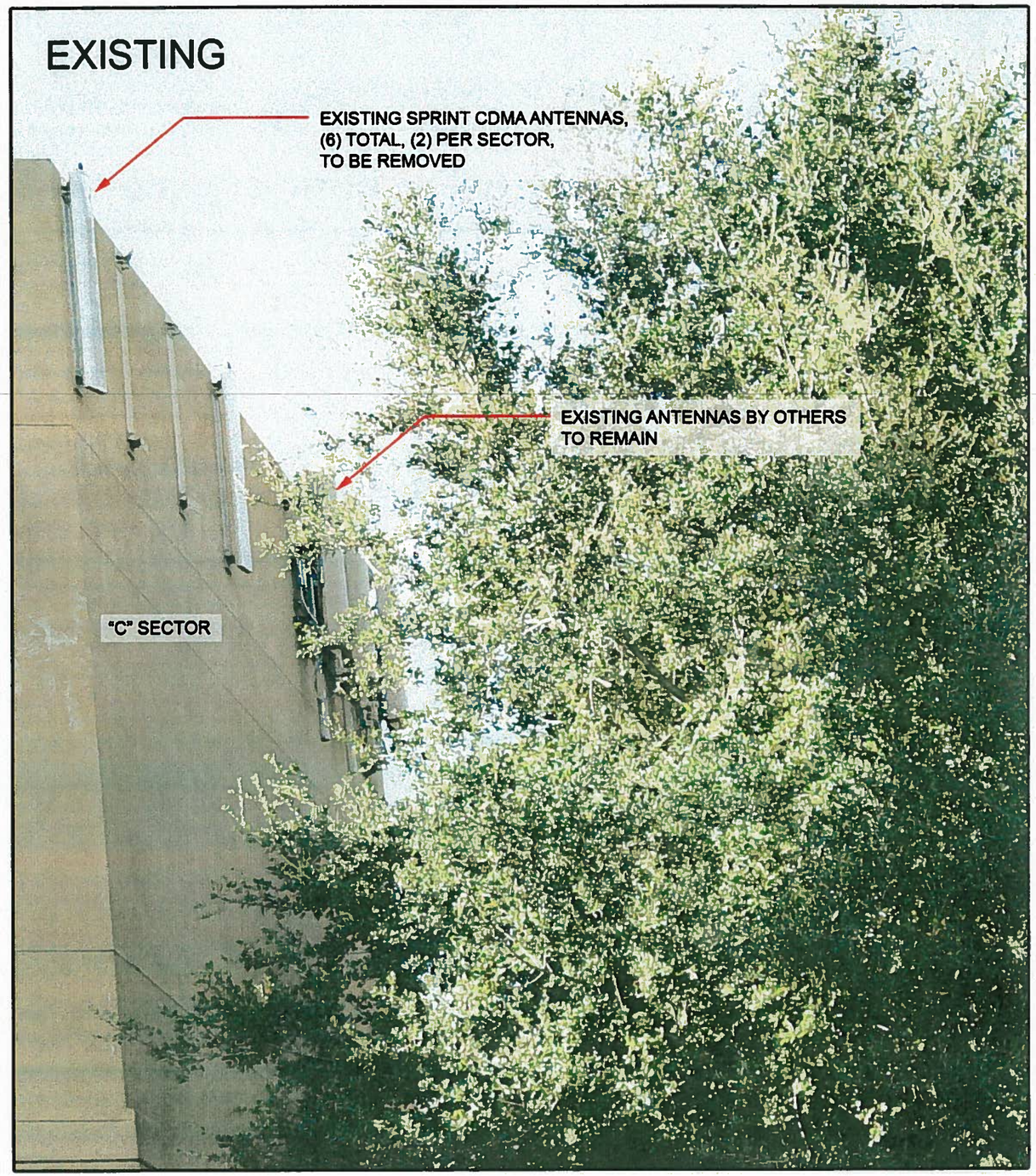
EXISTING



PROPOSED