

# CITY OF NEWPORT BEACH COMMUNITY DEVELOPMENT DEPARTMENT PLANNING DIVISION ACTION REPORT

- TO: CITY COUNCIL, CITY MANAGER AND PLANNING COMMISSION
- FROM: Kimberly Brandt, Community Development Director Brenda Wisneski, Deputy Community Development Director
- SUBJECT: Report of actions taken by the Zoning Administrator and/or Planning Division staff for the week ending January 4, 2013.

# COMMUNITY DEVELOPMENT DIRECTOR

OR PLANNING DIVISION STAFF ACTIONS Item 1: Core Development Services, Inc. on behalf of Sprint PCS/Alcatel-Lucent – Telecommunications Permit No. TP2012-011 (PA2012-078)

1401 (CS) Dove Street (Dove Street Telecom Update)

Action: Approved

Council District 3

APPEAL PERIOD: An appeal may be filed with the Director of Community Development or City Clerk, as applicable, within fourteen (14) days following the date the action or decision was rendered unless a different period of time is specified by the Municipal Code (e.g., Title 19 allows ten (10) day appeal period for tentative parcel and tract maps, lot line adjustments, or lot mergers). For additional information on filing an appeal, contact the Planning Division at 949 644-3200.

Lt. Dennis Birch, NBPD (Telecom Permit)



COMMUNITY DEVELOPMENT DEPARTMENT PLANNING DIVISION 3300 Newport Boulevard, Building C, Newport Beach, CA 92663 (949) 644-3200 Fax: (949) 644-3229 www.newportbeachca.gov

# COMMUNITY DEVELOPMENT DIRECTOR ACTION LETTER

APPLICATION:	Telecommunications Permit No. TP2012-011 (PA2012-078)
APPLICANT:	Sonal Thakur, Core Development Services, Inc.
CARRIER:	Sprint PCS/Alactel-Lucent
LOCATION:	1401 (CS) Dove Street Dove Street Telecom Update
LEGAL DESCRIPTION	Parcel Map Book 40, Page 32, Parcel 1

On <u>January 2, 2013</u>, the Community Development Director approved Telecommunications Permit No. TP2012-011. This approval is based on the findings attached to this report (Attachment No. CD 1).

In approving this application, the Community Development Director analyzed issues regarding compliance with Chapter 15.70 of the Newport Beach Municipal Code and determined in this case that the proposed wireless telecommunications facility ("telecom facility") meets the provisions of Chapter 15.70.

## PROJECT SUMMARY

Core Development Services, Inc. has submitted an application on behalf of Sprint PCS/Alcatel-Lucent requesting a telecommunications facility permit to modify an existing telecommunications facility. The proposed modifications include the following: (1) replacing three existing panel antennas; (2) replacing one GPS antenna; (3) replacing one existing battery backup cabinet; (4) upgrading one existing equipment cabinet; (5) addition of three new RRH units; and (6) addition of backhaul equipment and associated cables.

The top of the newly upgraded antennas measure 94 feet above ground level (AGL) and will be flush-mounted to the wall of the existing penthouse structure. All upgraded antennas and related equipment will be in the same location as the superseded equipment and will be painted to match the building.

Photographic visual simulations depicting the existing and proposed conditions at the site have been prepared by the applicant and are included as Attachment No. CD 3. The proposed changes to the existing exterior conditions of the site are minor and are conditioned such that blending is achieved. A copy of the project site plan and elevations depicting the proposed project are attached as Attachment No. CD 4.

# ZONING DISTRICT/GENERAL PLAN

- **Zone:** PC-11 (Newport Place)
- General Plan: MU-H2 (Mixed-Use Horizontal)

# BACKGROUND

Sprint PCS constructed the existing facility in 2000 prior to the current Telecommunications Facility Ordinance being enacted. In 2009, Royal Street Communications was granted approval to collocate on the site and constructed its facility subsequently in 2010 without additional screening requirements.

## APPEAL PERIOD

Telecommunications Facility applications do not become effective until 14 days after the date of action, during which time the applicant or any interested party may appeal the decision of the Community Development Director and division staff to the City Council by submitting a written appeal application to the City Clerk. For additional information on filing an appeal, contact the City Clerk at 949 644-3005.

On behalf of Kimberly Brandt, Community Development Director

By:

Benjamih M. Zdeba Assistant Planner

GR/bmz

Attachments:

- CD 1 Findings and Conditions of Approval
- CD 2 Vicinity Map
- CD 3 Photographic Simulations
- CD 4 Site Plan & Elevations

# Attachment No. CD 1

Findings and Conditions of Approval

# FINDINGS AND CONDITIONS OF APPROVAL TELECOMMUNICATIONS PERMIT NO. TP2012-011 (PA2012-078)

## **FINDINGS**

- 1. The telecommunications facility as proposed meets the intent of Chapter 15.70 of the Newport Beach Municipal Code (NBMC), while ensuring public safety, reducing the visual effects of telecom equipment on public streetscapes, protecting scenic ocean and coastal views, and otherwise mitigating the impacts of such facilities for the following reasons:
  - The proposed upgrades to the existing facility will not be detrimental to public health or safety because it is required to comply with the applicable rules, regulations and standards of the Federal Communications Commission and the California Public Utilities Commission.
  - The existing telecom facility is located on the roof of an existing building, and any future proposed facility to be located within 1,000 feet of the existing facility shall be required to co-locate on the same site to limit the adverse visual effects of proliferation of facilities in the City.
  - Due to the location or design of the facility, there is no impact to public views.
- 2. The telecommunications facility as proposed conforms to the technology, height, location and design standards for the following reasons:
  - The telecom facility approved under this permit utilizes the most efficient available technology in order to minimize the number of facility components and reduce the visual impact.
  - The telecom facility approved by the permit does not exceed the maximum building height limit of six stories above ground level with exceptions for mechanical equipment, as specified in the Planned Community Text.
  - The antennas and cabinets for the telecom facility approved by this permit will be roof-mounted and will be painted such that they are blended in a manner consistent with the architectural style, color and materials of the building to avoid adverse impacts to views from land or buildings at higher elevations.
  - The support equipment for the telecom facility will be roof-mounted and will be blended in a manner consistent with the architectural style, color and materials of the building. The roof-mounted equipment will comply with the height limit applicable to the building in PC-11 Zoning District.

3. This project has been reviewed, and it has been determined that it is categorically exempt from the requirements of the California Environmental Quality Act under Section 15302 Class 2 (Replacement or Reconstruction) since the project consists of replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced.

# CONDITIONS

- 1. The development shall be in substantial conformance with the approved plot plan, antenna and equipment plans, and elevations, except as noted in the following conditions.
- 2. The antennas and all related equipment shall be painted to match the exterior color of the building or structure upon which they are located.
- 3. Anything not specifically approved by this Telecom Permit is not permitted and must be addressed in a separate and subsequent Telecom Permit review.
- 4. The telecom facility approved by this permit shall comply with all applicable rules, regulations and standards of the Federal Communications Commission (FCC) and the California Public Utilities Commission (CPUC).
- 5. The telecom facility shall comply with all regulations and requirements of the Uniform Building Code, Uniform Fire Code, Uniform Mechanical Code and National Electrical Code. All required permits shall be obtained prior to commencement of the construction.
- 6. The telecom facility approved by the permit shall comply with any easements, covenants, conditions or restrictions on the underlying real property upon which the facility is located.
- 7. Any future facilities proposed by other carriers to be located within 1,000 feet from the subject property shall be approved to co-locate at the same site by the property owner or authorized agent, unless otherwise approved by the Planning Division.
- 8. <u>Prior to issuance of building permits</u>, a deposit of \$5,000 shall be paid to the City of Newport Beach. This deposit is required by the Planning Division to ensure preparation and submittal of the RF Compliance and Radiation Report, referenced in the above Condition. The deposit will be used to defray any and all fees associated with review of the report by an independent technical consultant, pursuant to Section 15.70.070 B-10 of the Telecom Ordinance. Any unused deposit fees will be refunded to the applicant upon determination of compliance with the approved frequency and FCC standards.
- 9. <u>Prior to the issuance of any building</u>, mechanical and/or electrical permits, architectural drawings and structural design plans shall be submitted to the City

of Newport Beach for review and approval by the applicable departments. <u>A copy</u> of this approval letter shall be incorporated into the drawings approved for the issuance of permits.

- 10. The applicant shall not prevent the City of Newport Beach from having adequate spectrum capacity on the City's 800 MHz radio frequencies at any time.
- 11. Should interference with the City's Public Safety radio equipment occur, use of the telecom facility authorized by this permit shall be suspended until the radio frequency interference is corrected and verification of the compliance is reported.
- 12. The applicant recognizes that the frequencies used by the cellular facility located at **1401 (CS) Dove Street** are extremely close to the frequencies used by the City of Newport Beach for public safety. This proximity will require extraordinary "comprehensive advanced planning and frequency coordination" engineering measures to prevent interference, especially in the choice of frequencies and radio ancillary hardware. This is encouraged in the "Best Practices Guide" published by the Association of Public-safety Communications Officials-International, Inc. (APCO), and as endorsed by the Federal Communications Commission (FCC).
- 13. Within 30 days after installation of the telecom facility, during which time the telecom facility may be allowed operate under a 30-day temporary certificate of occupancy, a radio frequency (RF) compliance and radiation report prepared by a qualified RF engineer acceptable to the City shall be submitted in order to demonstrate that the facility is operating at the approved frequency and complies with FCC standards for radiation. If the report shows that the facility does not so comply, the use of the facility shall be suspended until the facility is modified to comply and a new report has been submitted confirming such compliance.
- 14. The applicant shall provide a "single point of contact" in its Engineering and Maintenance Departments that is monitored 24 hours per day to insure continuity on all interference issues, and to which interference problems may be reported. <u>The name, telephone number, fax number and e-mail address of that person</u> <u>shall be provided to the Planning Division and Newport Beach Police</u> <u>Department's Support Services Commander prior to activation of the facility.</u>
- 15. Appropriate information warning signs or plates shall be posted at the access locations and each transmitting antenna. In addition, contact information (e.g. a telephone number) shall be provided on the warning signs or plates to arrange for access to the roof top area. The location of the information warning signs or plates shall be depicted on the plans submitted for construction permits.
- 16. No advertising signage or identifying logos shall be displayed on the telecom facility except for small identification, address, warning and similar information plates. A detail of the information plates depicting the language on the plate shall be included in the plans submitted for issuance of building permits.

- 17. The telecom facility shall not be lighted except as deemed necessary by the Newport Beach Police Department for security lighting. The night lighting shall be at the lowest intensity necessary for that purpose and such lighting shall be shielded so that direct rays do not shine on nearby properties. Prior to the final of building permits, the applicant shall schedule an evening inspection by the Code Enforcement Division to confirm compliance with this condition.
- 18. The operator of the telecom facility shall maintain the facility in a manner consistent with the original approval of the facility.
- 19. Should the property be sold or otherwise come under different ownership, any future owners or assignees shall be notified of the conditions of this approval by either the applicant, current property owner or leasing agent.
- 20. The applicant shall insure that lessee or other user(s) shall comply with the terms and conditions of this permit, and shall be responsible for the failure of any lessee or other users under the control of the applicant to comply.
- 21. Any operator who intends to abandon or discontinue use of a telecom facility must notify the Planning Division by certified mail no less than 30 days prior to such action. The operator or property owner shall have 90 days from the date of abandonment or discontinuance to reactivate use of the facility, transfer the rights to use the facility to another operator, or remove the telecom facility and restore the site.
- 22. The City reserves the right and jurisdiction to review and modify any telecom permit approved pursuant to Chapter 15.70 of the Newport Beach Municipal Code, including the conditions of approval, based on changed circumstances. The operator shall notify the Planning Division of any proposal to change the height or size of the facility; increase the size, shape or number of antennas; change the facility's color or materials or location on the site; or increase the signal output above the maximum permissible exposure (MPE) limits imposed by the radio frequency emissions guidelines of the FCC. Any changed circumstance shall require the operator to apply for a modification of the original telecom permit and obtain the modified telecom permit prior to implementing any change.
- 23. This telecom permit may be modified or revoked by the City Council should they determine that the facility or operator has violated any law regulating the telecom facility or has failed to comply with the requirements of Chapter 15.70 of the NBMC, or this telecom permit.
- 24. This approval shall expire unless exercised within 24 months from the date of approval.
- 25. To the fullest extent permitted by law, applicant shall indemnify, defend and hold harmless City, its City Council, its boards and commissions, officials, officers, employees, and agents from and against any and all claims, demands, obligations, damages, actions, causes of action, suits, losses, judgments, fines,

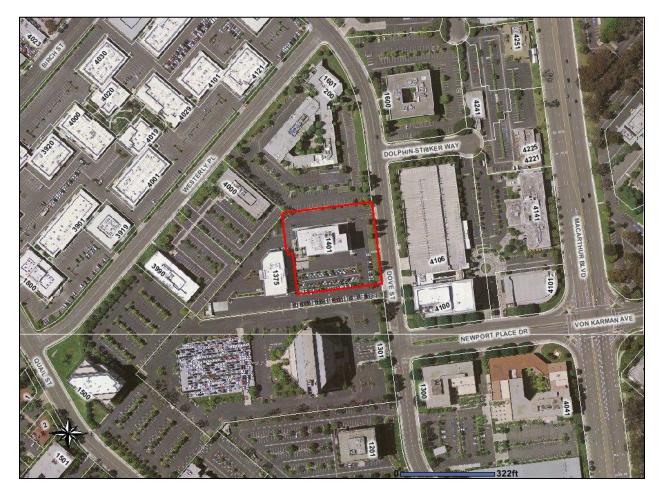
penalties, liabilities, costs and expenses (including without limitation, attorney's fees, disbursements and court costs) of every kind and nature whatsoever which may arise from or in any manner relate (directly or indirectly) to City's approval of the Dove Street Telecom Upgrades including, but not limited to, the TP( 2012-011) PA2012-078. This indemnification shall include, but not be limited to, damages awarded against the City, if any, costs of suit, attorneys' fees, and other expenses incurred in connection with such claim, action, causes of action, suit or proceeding whether incurred by applicant, City, and/or the parties initiating or bringing such proceeding. The applicant shall indemnify the City for all of City's costs, attorneys' fees, and damages which City incurs in enforcing the indemnification provisions set forth in this condition. The applicant shall pay to the City upon demand any amount owed to the City pursuant to the indemnification requirements prescribed in this condition.

# Attachment No. CD 2

Vicinity Map

# VICINITY MAP

# 1401 (CS) Dove Street



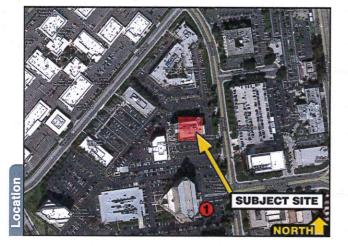
Telecommunications Permit No. TP2012-011 (PA2012-078)

# Attachment No. CD 3

Photographic Simulations

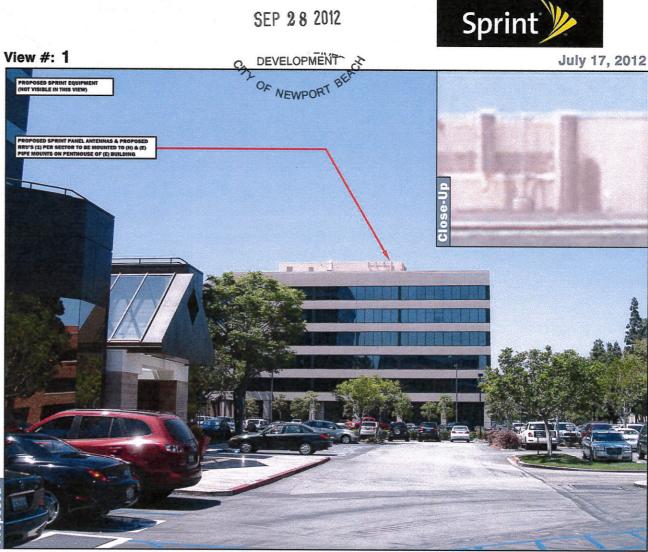
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Sprint PCS 310 Commerce Irvine, CA 92602 Julia Malisos - Phone: (714) 512-4770



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The illustration above is a representation of the proposed project based on information provided by the client. Actual construction may vary dependent on approved construction plans and therefore the A&E firm will not be held responsible for any post production design changes.



Prepared by: RLT Approved by: RLT

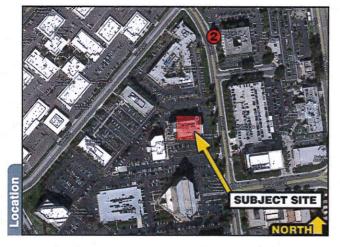




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1401 DOVE STREET NEWPORT BEACH, CA 92660





Sprint PCS 310 Commerce Irvine, CA 92602 Julia Malisos - Phone: (714) 512-4770



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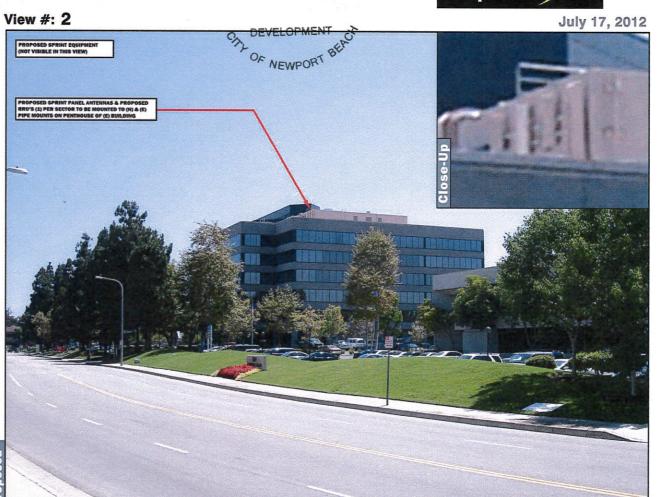
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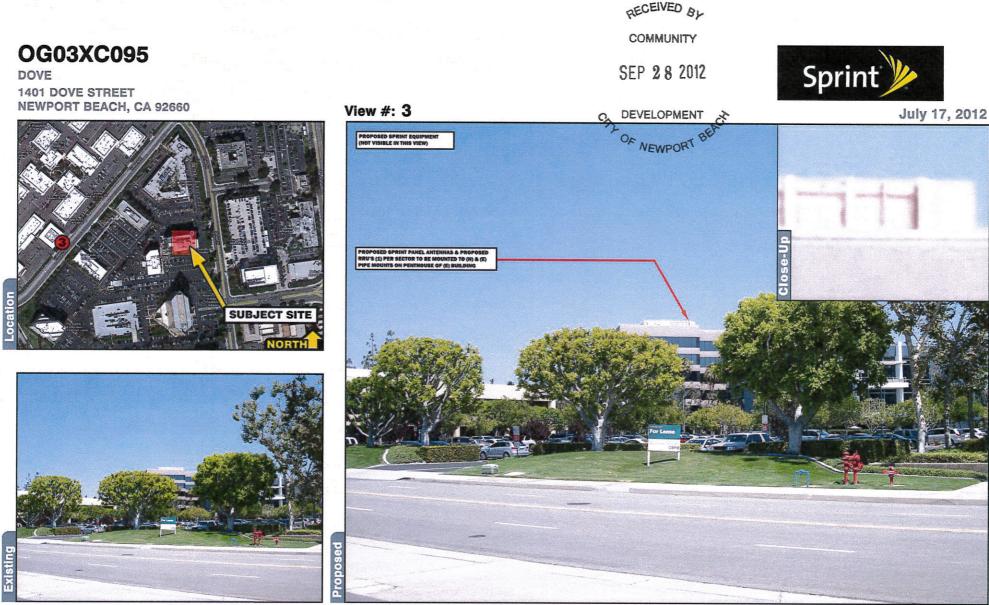
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Sprint PCS 310 Commerce Irvine, CA 92602 Julia Malisos - Phone: (714) 512-4770



Prepared by: RLT Approved by: RLT





# Attachment No. CD 4

Site Plan & Elevations

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	DEPT DEPARTMENT PROP PROPERTY DEMO DEMOLITION PT PRESSURE TREATED DIM DIMENSION R RISER DN DOWN R RISER DR DOOR REQUIRED DTL DETAIL RD ROOF DRAIN DWG DRAWING RM ROOM	<ol> <li>PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS. OWNER PROVIDED</li> <li>ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJEC</li> </ol>	
	(E)         EXISTING         RO         ROUGH         OPENING           EA         EACH         EACH <td< th=""><th>MATERIALS WILL INCLUDE THE FOLLOWING, UNLESS NOTED OTHERWISE: A) TRANSMITTER B) RF FILTER C) METS RACK D) AUXILIARY EQUIPMENT IN MFTS RACK C) MATS RACK C) M</th><th></th></td<>	MATERIALS WILL INCLUDE THE FOLLOWING, UNLESS NOTED OTHERWISE: A) TRANSMITTER B) RF FILTER C) METS RACK D) AUXILIARY EQUIPMENT IN MFTS RACK C) MATS RACK C) M	
	FB FLAT BAR STL STEEL FF FINISH FLOOR STORAGE FH FLAT HEAD STRUCT STRUCTURAL FIN FINISH(ED) SUSP SUSPENDED FLR FLOOR SWB SWITCH FOS FACE OF STUDS SWBO SWITCHBOARD FS FINISH SURFACE FT FOOTING TI TENANT IMPROVEMENT FTG FOOTING TI TENANT IMPROVEMENT FW FINISH WALL THA TOWER MOUNTED AMPLIFIER	<ul> <li>E) PUMP ASSEMBLY</li> <li>F) HEAT EXCHANGER</li> <li>G) HOSE AND HOSE MANIFOLDS (ANY COPPER OR STEEL SECTIONS PROVIDE BY CONTRACTOR)</li> <li>H) UHF ANTENNA AND MOUNTING BRACKETS, GPS ANTENNAS AND KU ANTENNAS</li> </ul> 21. LIGHT SHADED LINES AND NOTES REPRESENT WORK PREVIOUSLY DONE. DARK SHADED LINES AND NOTES REPRESENT THE SCOPE OF WORK FOR THIS PROJECT. CONTRACTOR SHALL VERIFY IF EXISTING CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY EXISTING CONSTRUCTION.	
	FUT         FUTURE         TS         TUBE STEEL           GA         GAUCE         TYP         TYP         TYP           GA.V         GAUXNIZED         UNO         UNLESS NOTED           GL         GLASS         OTHERWISE           GR         GRADE         VCT         VINYL           GYP         GYPSUM         COMPOSITION           GFCI         GROUND AULT CIRCUIT         TILE           INTERRUPT         VERT         VERTOLAL           GND         VLF.         VERIFY IN FIELD	<ul> <li>I) UHF COAX AND HANGERS</li> <li>K) 480-208 AND 208-400 ELECTRICAL TRANSFORMERS (RE: E-2 FOR SPECIALIZED TRANSFORMERS PROVIDED BY CONTRACTOR</li> <li>L) AUTOMATIC TRANSFER SWITCH AND GENERATOR</li> <li>M) EQUIPMENT SHELTER (SHELTERS FURNISHED IN FACTORY W/ HVAC EQUIPMENT AND ELECTRICAL DISTRIBUTION PANEL)</li> <li>N) INTEGRATED LOAD CENTER</li> <li>22. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND/OR WIRING CERTIFICATES REQUIRED FOR THE ELECTRICAL SERVICE UPGRADE. IN ADDITION, CONTRACTOR SHALL PROVIDE ALL NECESSARY COORDINATION AND SCHEDULING WITH THE SERVING ELECTRICAL UTILITY AND LOCAL INSPECTION AUTHORITIES.</li> </ul>	
	HC HOLLOW CORE VG VERTICAL GRAIN HDW HARDWARE W/ WITH	5. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED, SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. ANTENNA & HYBRIFLEX NOTES	
	HTR HEATER WO WOOD HM HOLLOW METAL WR WATER RESISTANT HORIZ HORIZONTAL WT WEIGHT HR HOUR HT HEIGHT XFMR TRANSFORMER HT HEIGHT XFMR TRANSFORMER HV HIGH VOLTAGE	THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD ANTENDER AN INTERNET AND	
	ID     INSIDE DIMENSION     INSIDE DIMENSION       INS     INSULATION     INSULATION       INT     INTERIOR     ©       UT     VIDIT     Z	<ul> <li>SHALL BE RESPONSIBLE FOR OBTAINING A THE WORK.</li> <li>6. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.</li> <li>2. THE MAXIMUM FIBER CABLE LENGTH AND CORRESPONDING FIBER CABLE LENGTH AND CORRESPONDING FIBER CABLE LENGTH IS APPROXIMATE, AND IS NOT TO BE USED FOR FABRICATION OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.</li> </ul>	
	SYMBOLS:	7. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY JEEN VIEW OF CHARTER OF DEFINITE TO THE PROVIDED BY SPRINT.	
	SECTION NUMBER	<ol> <li>CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE</li> <li>CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE</li> <li>ALL MAIN CABLES SHALL UTILIZE GROUND KITS, GROUNDED AS FOLLOWS:         <ul> <li>A. NEAR ANTENNA RAD CENTER ELEVATION,</li> <li>A. NEAR ANTENNA RAD CENTER ELEVATION,</li> </ul> </li> </ol>	
	X-X SHEET NUMBER	BEST CONSTRUCTION SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR C. BOTTOM OF TOWER,	
	X X-X X-X	COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED. D. AT MASTER GROUND BAR 3'-0" FROM RBS CABINET. 4. ALL TOP JUMPERS SHALL BE LENGTHS AS SHOWN, SUPPLIED BY	
	SHEET NUMBER	9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS. 5. ALL MAIN CABLES SHALL BE COLOR CODED AT FOUR (4) LOCATIONS AS FOLLOWS:	
		A. AT ANTENNA PRIOR TO JUMPER 10. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE SUPERINTENDENT OF BUILDINGS & GROUNDS AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.	
		11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.       6. BANDING SHALL BE AS FOLLOWS: ANN LINE COLOR BANDS SHALL BE 2" WIDE. MAINTAIN 1" SPACING BETWEEN COLORS.         6. BANDING SHALL BE AS FOLLOWS: ANN LINE COLOR BANDS SHALL BE 2" WIDE. MAINTAIN 1" SPACING BETWEEN COLORS.	
	(X)         KEY NOTE REFERENCE         PROPERTY LINE           X         DOOR NUMBER         X         Y	12. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS 7. FINAL FIBER ANTENNA CABLE SIZES SHALL BE DETERMINED BY SPRINT	9
	XX         AREA AND/OR ROOM NUMBER         - E E         E	TAKE PRECEDENCE. RF ENGINEER. SEE ANTENNA SCHEDULE SHEET A-2.1. 13. MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING ETC. AND IMMEDIATELY REPAIR	
		ANY DAMAGE THAT OCCURS DURING CONSTRUCTION. 14. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR	
		ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., MUST BE CLEARLY UNDERSTOOD THAT REINFORCING STEEL SHALL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES (UNLESS	
l	ABBREVIATIONS & SYMBOLS	GENERAL NOTES & SPECIFICATIONS	

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BLE WILL BE SECURED TO THE DESIGNED SUPPORT T DISTANCES NOT TO EXCEED 3' OR THE CABLE S SPECIFICATIONS WHICHEVER IS LESS, WITH ECIFIED IN THE FIBER CABLE ROUTING DETAILS OF STRUCTURAL REPORT.

AST 6" OF SLACK IN THE MAIN FIBER CABLES AT MOUNTING ELEVATION TO PROVIDE FOR FUTURE EPLACEMENT.

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COCCE DEVELOPMENT SERVICES ARE SERVICES 2749 Saturn Street Brea, California 22821 (714)729-8040 (714)333-4441 fax www.cocc.us.com						
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### BATTERY INFORMATION AND NOTES:

BATTERY MFG:	EAST PENN MANUFACTURING
MODEL NUMBER:	12AVR-145L
ELECTROLYTE CONTENT	PER BATTERY: 2.17 GALLONS
ELECTROLYTE HAZARD PER '07 C.F.C. ( 8.7%	CLASSIFICATION SULFURIC ACID): CORROSIVE

NUMBER OF BATTERIES TO 20 MAX (20 PER CABINET) BE INSTALLED: 80 TOTAL ELECTROLYTE CONTAINED ON SITE (2.17 X 20): 43.4 GALLONS MAX

- A. QUANTITIES OF 500 GALLONS OR LESS ARE EXEMPT PER TABLE 3-E OF THE 2010 U.B.C.
- B. SINGLE VESSEL CAPACITIES OF 10 GALLONS OR LESS, AND AGGREGATE QUANTITIES NOT IN EXCESS OF 100 GALLONS ARE EXEMPT PER ARTICLE 64 OF THE 2010 C.F.C.
- C. QUANTITIES LESS THAN 50 GALLONS ARE EXEMPT FROM C.F.C. ARTICLE 80, AND SHALL NOT REQUIRE REMIT.
- D. ANY CHANGES OR ADDITIONS TO BACK-UP BATTERIES MUST COMPLY WITH 2010 C.F.C. ARTICLE 64 AND SHALL NOT CONTAIN ELECTROLYTE QUANTITIES IN EXCESS OF 50.

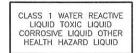
FIRE DEPARTMENT NOTES:

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

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

3. A. CFC PERMIT AY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE.

4. 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 UST THE FOLLOWING:



5. AN APPROVED METHOD TO NEUTRALIZED SUPPLIED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM.

6. BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.

7. 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 INSPECTOR.

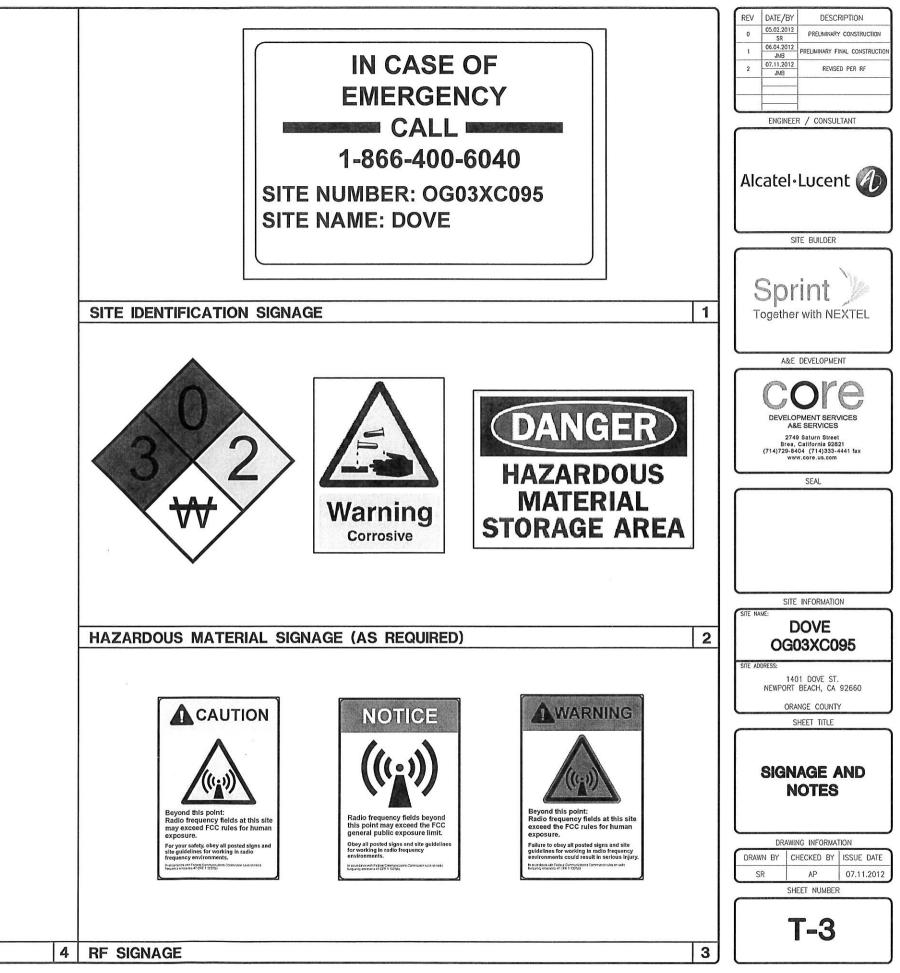
8. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.

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

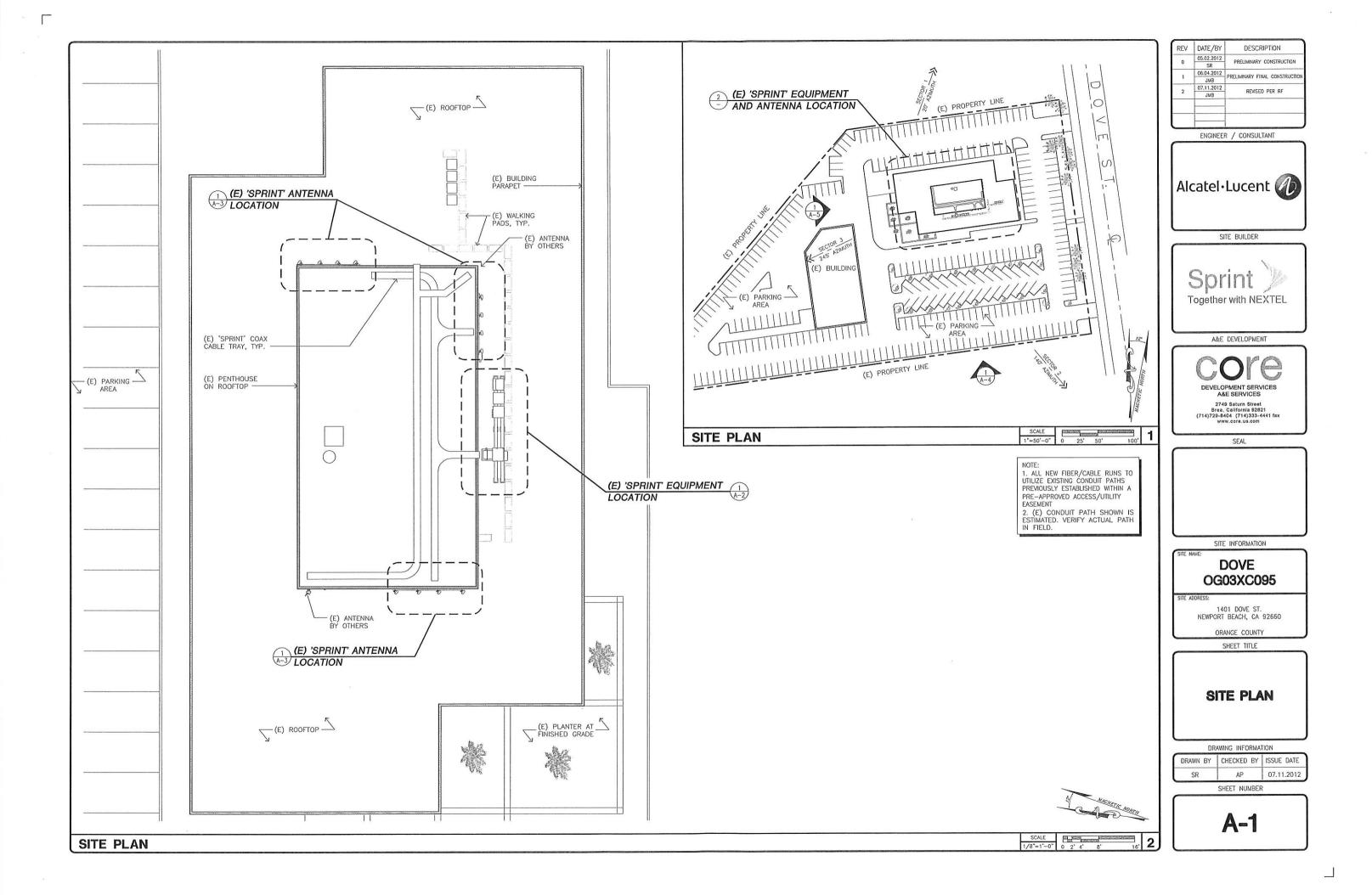
10. ADDRESS NUMBERS SHALL BE A MINIMUM 6 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING ADDRESS IS FROM.

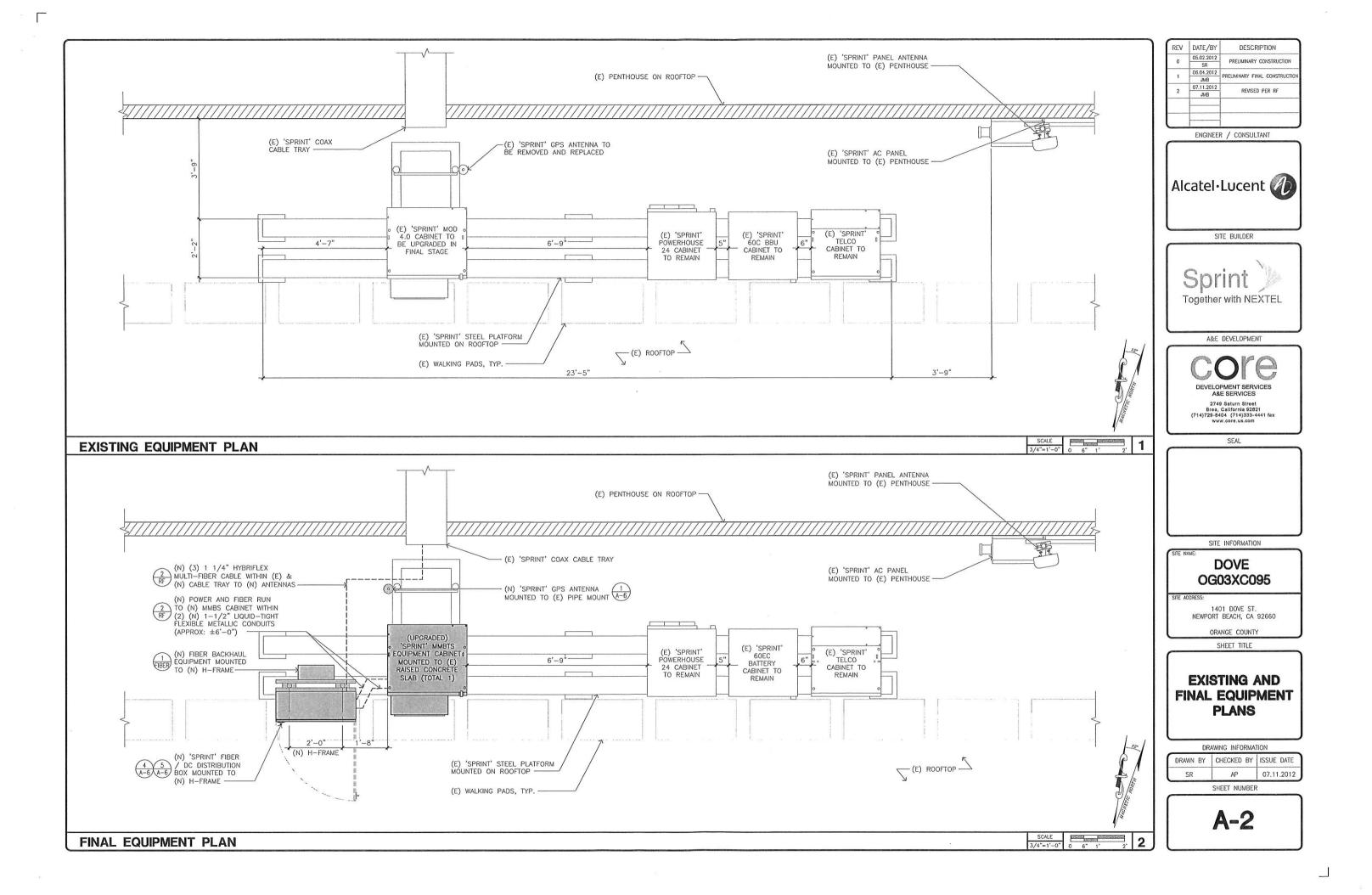
REQUIRED SIGNAGE SHALL INCLUDE LETTERING HEIGHT OF AT LEAST ONE INCH, IN A COLOR THAT CONTRAST TO THE SIGN BACKGROUNDS, AND SHALL BE PROMINENTLY DISPLAYED.

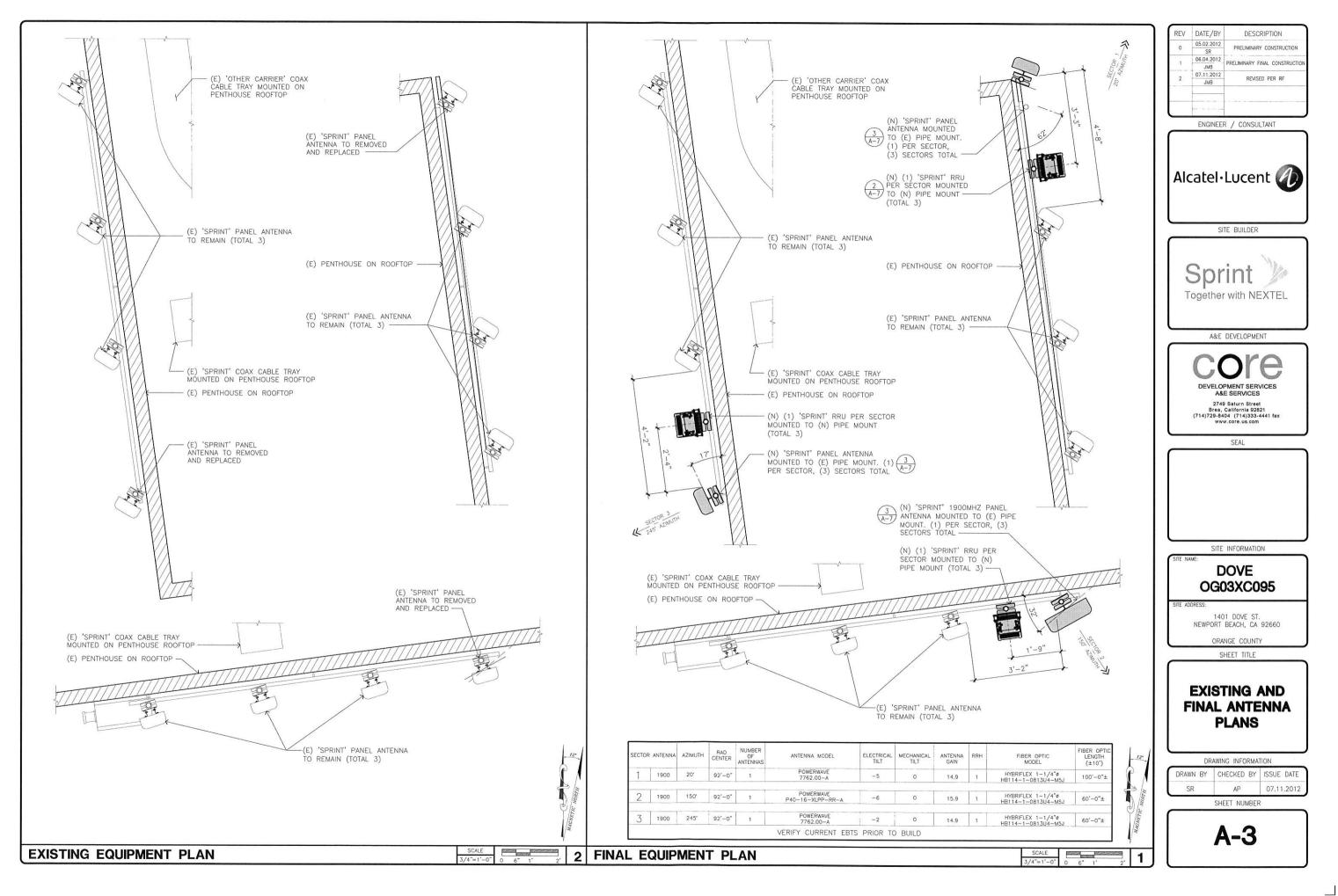
12. REQUIRED SIGNAGE SHALL INCLUDE BUT MAY NOT BE LIMITED TO APPLICABLE TYPES FROM EXAMPLES SHOWN HEREIN; SEE DETAILS 1, 2, AND 3.

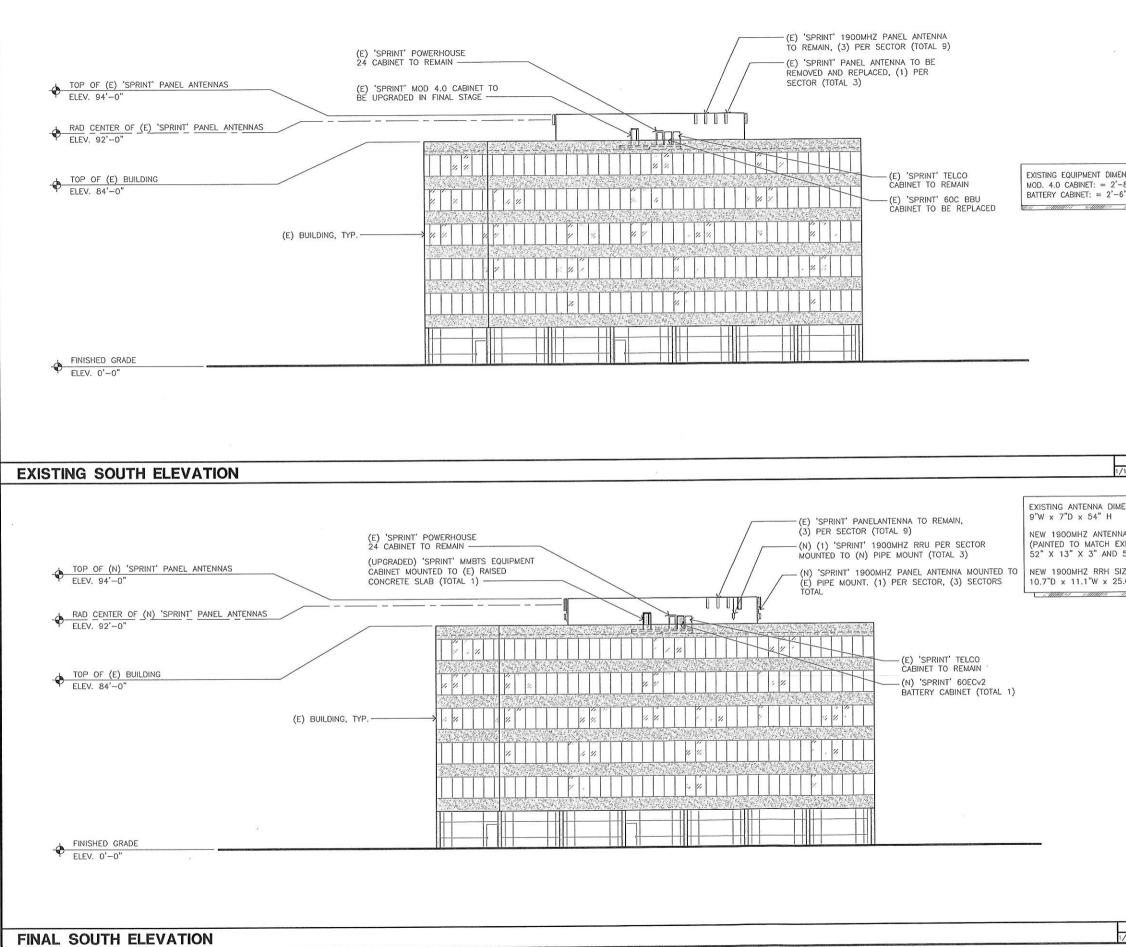


BATTERY INFORMATION AND NOTES

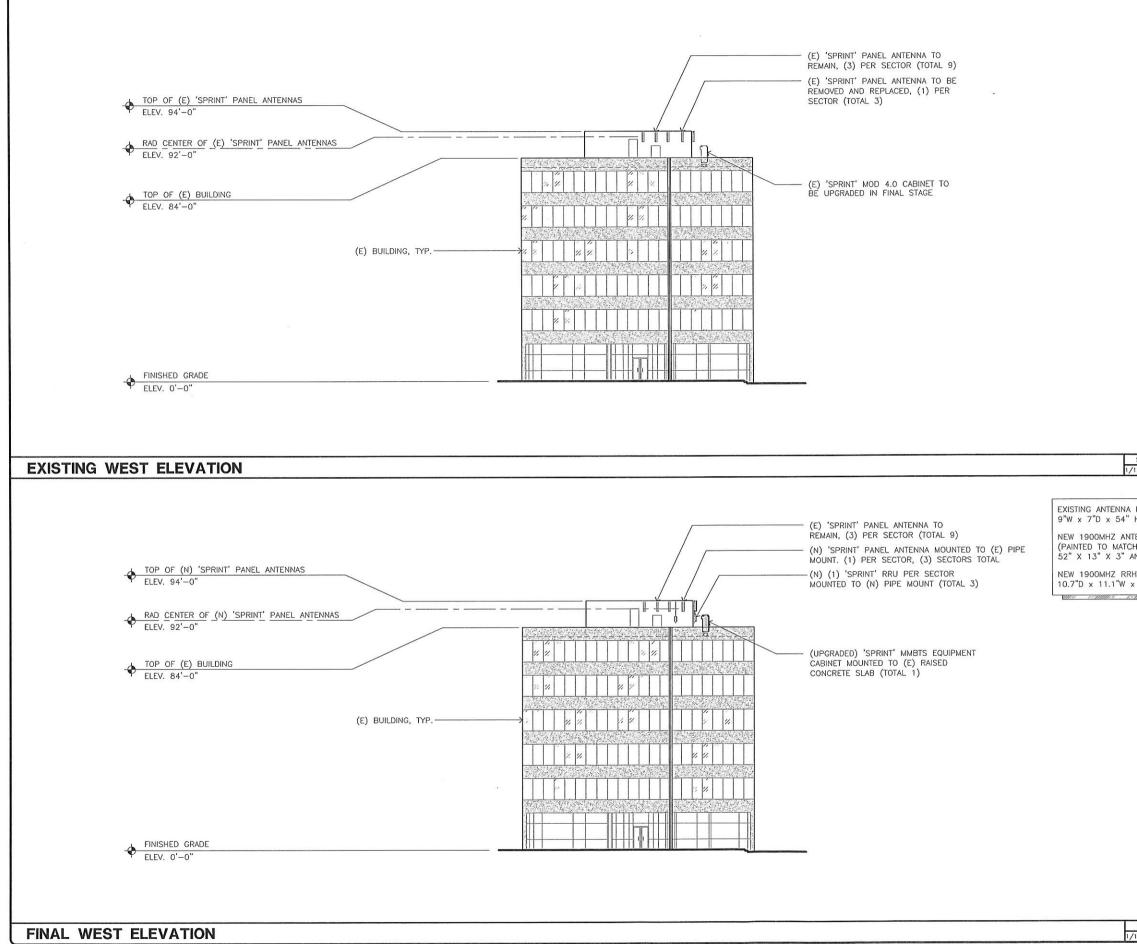








	REV DATE/BY DESCRIPTION
	0 05.02.2012 PRELIMINARY CONSTRUCTION
	1 06.04.2012 PRELIMINARY FINAL CONSTRUCTION
	2 07.11.2012 REVISED PER RF
	2 JMB REVISED PER RF
	ENGINEER / CONSULTANT
NSIONS: -8"W x 2'-11"D x 6'-6" H 5"W x 2'-7"D x 5'-8"H	Alcatel·Lucent
	SITE BUILDER
	Sprint Together with NEXTEL
	A&E DEVELOPMENT
٤.	CCOFE DEVELOPMENT SERVICES ARE SERVICES 2749 Saturn Street Brea, Californis 92821 (714)728-8404 (714)333-4441 fax
	www.core.us.com
SCALE THE REPORTED	SEAL
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5.07"H	SITE INFORMATION
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	SITE ADDRESS: 1401 DOVE ST. NEWPORT BEACH, CA 92660
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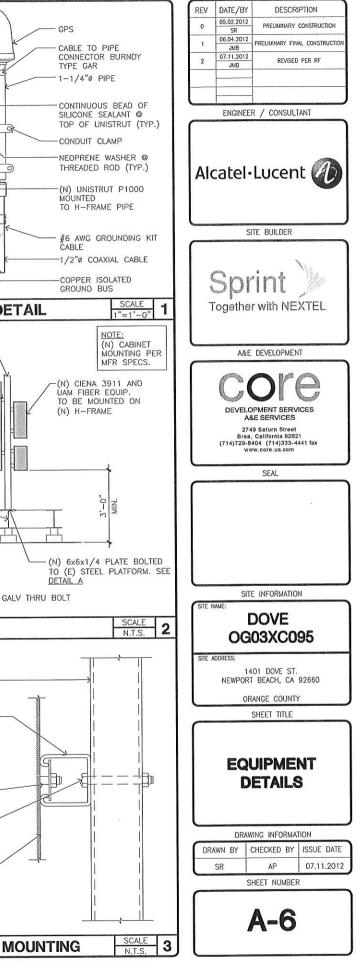


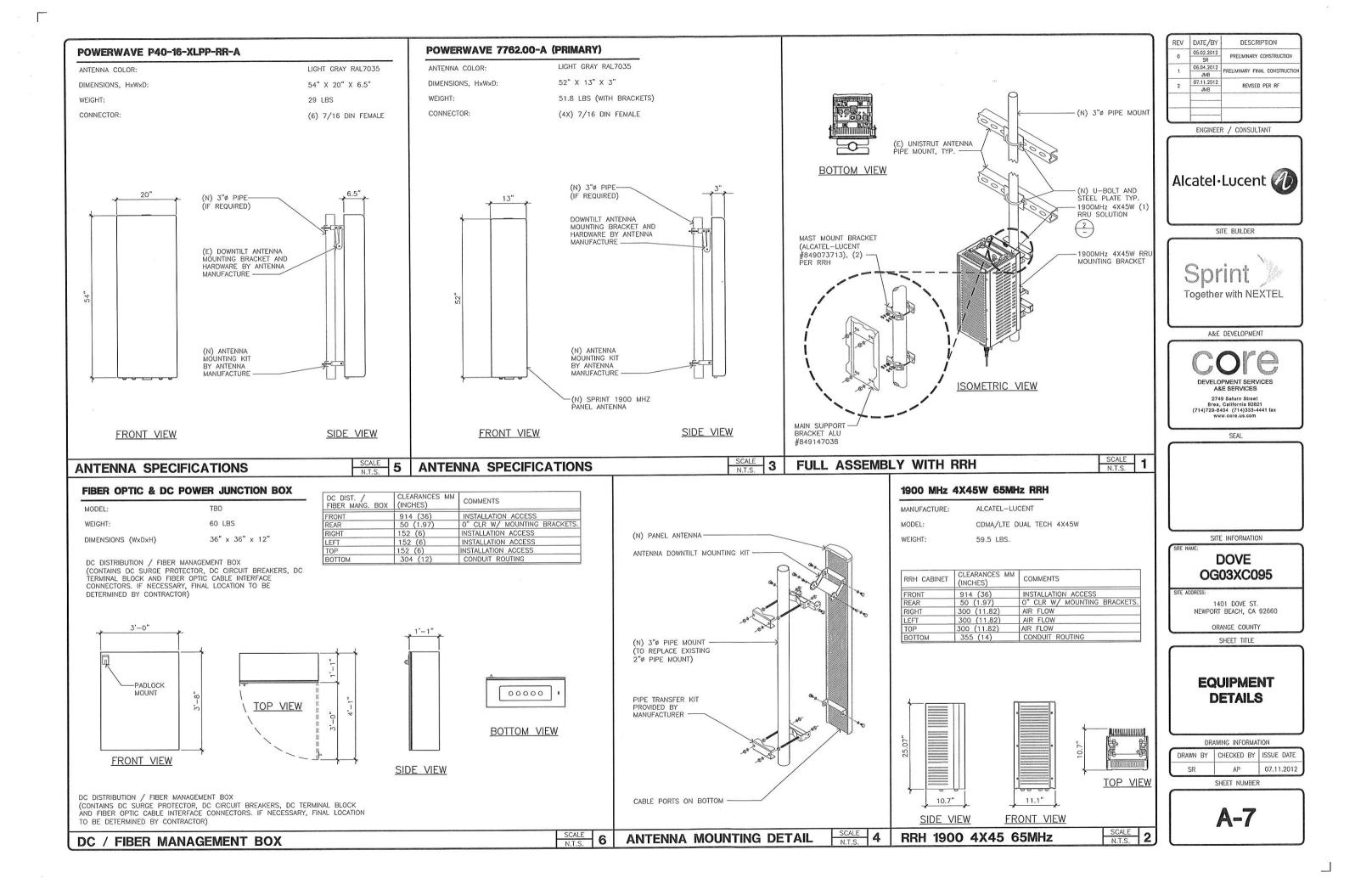
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SCALE	SEAL
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				(N) EMT SCHEDULE 40 CONDUIT (N) SELF TAPPING SCREWS (N) 4X4 PVC SLEEPER (N) NEOPRENE PAD (E) ROOF DECK	#2 AWG BTCW, TYP @ 3 PLACES
NOT USED	SCALE 10	NOT USED SCALE N.T.S.	7	CONDUIT MOUNTING DETAIL	GPS TO FRAME DI
					2"¢ GALV. POST, (TYP) (N) UNISTRUT P1000, (TYP) 3 - (N) DC / FIBER JUNCTION BOX MOUNTED ON (N) H-FRAME (E) STEEL PLATFORM 6" ROOFTOP 14 0 0 0 0 0 1/4 (N) 1/2" G
NOT USED	SCALE <b>11</b>	NOT USED SCALE N.T.S.	8	NOT USED SCALE N.T.S. 5	6 H-FRAME DETAIL
					<ul> <li>(N) 2"ø GALV. POST, (TYP) —</li> <li>(N) UNISTRUT P1000T– AS REQ'D</li> <li>BOLTS PER MANUFACTURER SPECS —</li> <li>1/2" THRU. BOLTS, TYP —</li> <li>(N) EQUIPMENT (ATTACHED PER MANUFACTURED RECOMMENDED METHOD) OR (N) CONDUIT —</li> </ul>
NOT USED	SCALE N.T.S. <b>12</b>	NOT USED SCALE N.T.S.	9	NOT USED	B DC / FIBER BOX I
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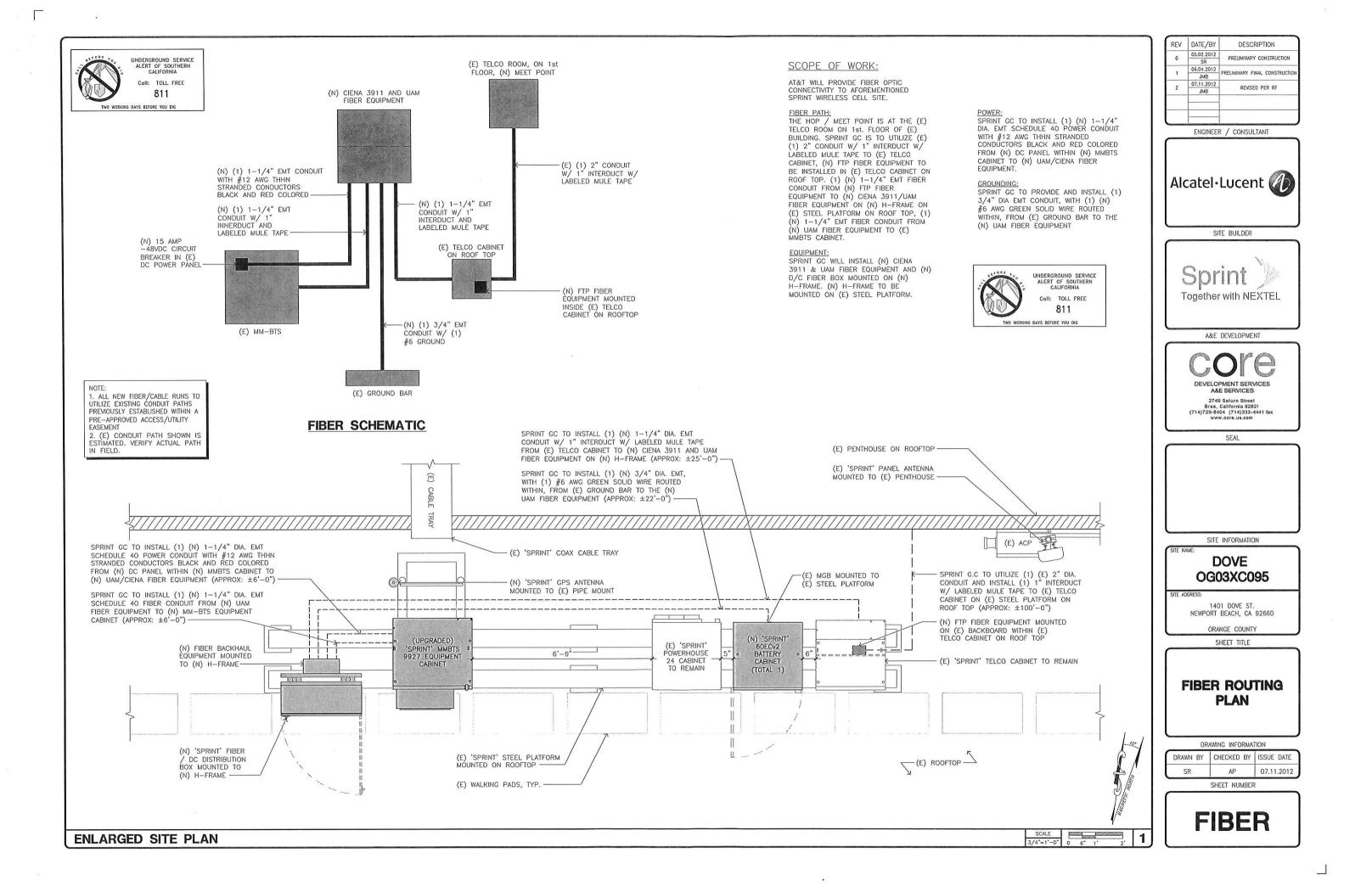
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				3, 4,	12MM EXPANSION STUD	11/16" BIT 4" DEEP MIN	19MM	791
				0, 1, 2	1/2" DROP-IN	5/8" BIT 2" DEEP	3/4"	24
				SEISMIC ZONE		HOLE SIZE	WRENCH	NEWTON
					OUTDOOR 9927 [	DISTRIBUTED BASE STA	ATION CABINET WITH	H INTEGRAT
				INS	TALLATION INSTRUCTIONS	INTERFACE KIT FOR AT	TTACHMENT OF -4	18V 60ECv
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BATTERY	CABINET		SCALE         Image: Construction of the second	3				
Z A Marinda Sarah Z A								
_	<u>FRONT</u>		1.7 <u>3"</u> ↓ <u>FRONT</u>					
		0						
5. -0*		o <sup>1</sup>	BATTERY CABINET BOLTING PATTERIN 70 BOLTING PATTERIN 70 70	EQUIPMENT	ANCHORAGE			
*o								
			31.0"			K	(N) 5/ BOLT	/8" GALV
<b>↓</b>	<u>TOP</u>	↑	DOOR SWING					TEEL BEAN
Ļ		2'-6"	CLEARANCE FRONT DOOR SWING					
32"	o o				CABINET BASE, (TYP)		INSULA	ATING WAS
+					2 BOLT HOLE PATTERN		FLAT W	WASHER,
	<b>.</b> 35.5" <b>.</b>				2 BOLT HOLE		/LOCK	WASHER,
MODEL: WEIGHT: DIMENSIONS (WxDxF	ALU 60ECv2 425 LBS H) 31" x 30" x 60	0"	31,00					
IODEL:	ALU 60ECv2		- T BBU DOOR					

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	DEVELOPMENT SERVICES
	A&E SERVICES 2749 Saturn Street
	Brea, California 92821 (714)729-8404 (714)333-4441 fax www.core.us.com
	www.core.us.com
	SEAL
	SITE INFORMATION
	DOVE OG03XC095
	SITE ADDRESS: 1401 DOVE ST.
	NEWPORT BEACH, CA 92660
	ORANGE COUNTY
	SHEET TITLE
	EQUIPMENT
✓2 BATTERY CABINET TO	DETAILS
ATED POWER	
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N METERS FOOT POUNDS	DRAWING INFORMATION
24NM 18 FT-LB	DRAWN BY CHECKED BY ISSUE DATE
'9NM 58 FT-LB	SR AP 07.11.2012
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TYPICAL COAX           SECTOR         CABLE           1         ALPHA         1           1         2         1           1         3         1         4           1         5         1         6           1         7         1         6           1         7         1         8           2         BETA         1         2           2         3         2         4           2         2         3         2           2         4         2         5           2         6         2         7           2         8         3         GAMMAA         1           3         2         3         3         3	GREEN BLUE BROWN WHITE RED SLATE PURPLE	CODING SCHEMECOND RINGTHIRDNO TAPENO TNO TAPENO TREENNO TBLUENO TBLUENO TSLATENO TORANGENO TGREENNO TBLUENO TBLUEBLUEBLUEBLUEBLUEBLUEBLUEBLUEBLUEBLUE	RING APE APE APE APE APE APE APE APE APE APE		SECTOR 6 => 5 BAND SECTOR 6 => 6 BAND 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 COLOR BAND TO BE 2" WIDE ON MAIN LINE. 2. SPACING TO BE 1" BETWEEN BANDS AND 2" BETWEEN LINE AND	CODE DEN COMA WIMAX	C POWER C POWE
3 3 3 4	WHITE	BROWN BRO WHITE WH			TECHNOLOGY BANDS. NO SPACE BETWEEN TECHNOLOGY COLOR BAN 3. COLOR BAND ON JUMPERS 1" WIDE W/ 1" SPACE. 4. START COLOR BANDS 2" BEYOND WEATHERPROOFING.	ANDS.	HYBIRD CABLE COLOR CODE
3 5 3 6	RED	RED RL SLATE SLA	Contraction in the second second		5. START SECTOR COLOR NEXT TO END CONNECTOR.		STRUCTURE OUTER CONDUCTOR ARMOR: CORRHGATED ALUMINUM (MM (IN)] 36.0
3 7 3 8	PURPLE	PURPLE PUR ORANGE ORA	CONTRACTOR DUNCTION				JACKET: FLAME RETARDANT, POLYETHYLENE, PE (MM (IN)) 39.0 UV-PROTECTION: INDIVIDUAL AND EXTERNAL JACKET YES MECHANICAL PROPERTIES
			SCALE	5			WEIGHT, APPROXIMATE         [KG/M (LB/FT)]           MINIMUM BENDING RADIUS, SINGLE BENDING         [MM (N])         200           MINIMUM BENDING RADIUS, REPEATED BENDING         [MM (N])         500           RECOMMENDED/MAXIMUM CLAMP         [M (FT)]         1.0/           ELECTRICAL_PROPERTIES         [W/KM (W/1000FT)]           DC=RESISTANCE_UTER CONDUCTOR ARMOR         [W/KM (W/1000FT)]           DC=RESISTANCE OVER CABLE, 8.4MM2 (8AWG)         [W/KM (W/1000FT]]           FIBER_OFTIC_PROPERTIES         [W/KM (W/1000FT]]           VERSION         MULTI-MODE           QUANTITY, FIBER COUNT         6 (4 PARS), (1 0)           CORE/CLOD         [MM]           PRINARY COATING (ACRYLATE)         [MM]           BUFFER TORMY PROTECTION, JACKET, NOMINAL         [MM]
AXIAL CABLE (	COLOR CODE		N.T.S.	3	ANTENNA AND CABLE COLOR CODE N.I.S	<u>.s.</u>	STANDARDS (MEETS OR EXCEEDS) UL94-V0 UL1666 ROHS COMPLIANT
		2			Market Orange County Caseade ID 0G03XC095		DC. POWER CABLE PROPERTIES         [MM2(AWG)]         8.4           SIZE         [MM2(AWG)]         8.4           QUANTITY, WIRE COUNTS (4 PAIRS)         TYPE         UV PI           STRANDS         19         PRIMARY JACKET DIAMETER, NOMINAL         [MM (IN)]         6.8
TECHNOLOGY COLOR CODE	FIRST RING	SECOND R	ING		Split sector present         No         No         No           1900MHz_Azimuth         20         150         24           1900MHz_No_of_Antennas         1         1         1	CTOR 3 No 245 1	STANDARD GALLEL, ROMINE (M. (197) 3.0
800 #1	YELLOW	GREEN			1900MHz_Antenna Make Powerwave Powerwave Power	92.2 verwave 62.00-A	INSTALLATION TEMPERATURE ['C (F)] -40 OPERATION TEMPERATURE ['C (F)] -40
1900 #1 1900 #2	YELLOW	RED BROWN			1900MHz_Horizontal_Beamwidth         93         40         93           1900MHz_Vertical_Beamwidth         6.7         6.5         6.1	93 6.7	
RESERVED	YELLOW	BLUE			1900MHz_AntennaHeight (ft)         4.3         4.5         4.1           1900MHz_AntennaGain(dBd)         14.1         15.9         14.	4.3 14.1	
RESERVED	YELLOW	SLATE			1900MHz_M_Tilt 0 0 0	-2 0 3	PE/UV EXTERNAL
RESERVED	YELLOW	ORANGE				ALU	JACKET
RESERVED	YELLOW	WHITE			1900MHz_RRH Count         1         1         1           1900MHz_RRH Location         Top of the Tower/Pole         Top of the Tower/Pole         Top of the Tower/Pole	1 e Tower/Pole	ALUMINUM OC
					1900MHz_Top_Jumper #1_Length (RRH or Combiner-to-Antenna, ft) 10 10 10	iner needed 10 F12-50J	OPTICAL CABLE (QUAD) WITH AN INTERNAL JACKET (PE/UV) HB114-1-0813U4-M5J
			SCALE	6	RFDS FORM		HYBRIFLEX™ RRH HYBRID FEEDER CABLING SOLI HYBRIFLEX™ 1 - 1/4", MULTI-MODE FIBER
EQUENCY COLC	IN CODE	manakan sering an include the societ states of the society of the society of the society of the society of the	N.T.S.	0	RFDS FORM N.T.S	.S. <b>7</b>	

	]	REV DATE/BY DESCRIPTION
) RRU #1		05.02.2012 PRELIMINARY CONSTRUCTION
		1 06.04.2012 1 PRELIMINARY FINAL CONSTRUCTION
		JMB 07.11.2012
		2 JMB REVISED PER RF
		ENGINEER / CONSULTANT
FOR #2 CABLE #2		) j
HNOLOGY INDICATOR		
RRU #1		
R		Alcatel · Lucent
RID CABLE		
TOR #2 GABLE #2		
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R		
		Sprint 🎾
		Together with NEXTEL
(20)		A&E DEVELOPMENT
		roro
		DEVELOPMENT SERVICES
ſ	SCALE	A&E SERVICES 2749 Saturn Street
	N.T.S. <b>1</b>	Brea, California 92821 (714)729-8404 (714)333-4441 fax
36.0 (1.42)		www.core.us.com
39.0 (1.54)		SEAL
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T)] 1.9 (1.30) 200 (8)		
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2.0 (0.08)		DOVE
ANT		OG03XC095
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UV PROTECTED		SITE ADDRESS:
6.8 (0.27)		1401 DOVE ST. NEWPORT BEACH, CA 92660
		ORANGE COUNTY
		SHEET TITLE
-40 TO +65 (-40 TO149) -40 TO +65 (-40 TO149)		
		ANTENNA AND
		EQUIPMENT
WER CABLE (PAIR) WITH AN		WIRING DIAGRAM
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1/4°, 4-PAIR 8AWG X 5-PAIR LTI-MODE FIBER UL		DRAWN BY CHECKED BY ISSUE DATE
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SOLUTION		RF
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### GENERAL NOTES & SPECIFICATIONS:

1. THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION ACCEPTABLE BY THE JURISDICTION OF THE NATIONAL ELECTRICAL CODE, CALIFORNIA ELECTRICAL CODE, STATE FIRE MARSHALL REGULATIONS, AND ALL OTHER STATE AND LOCAL CODES, LAWS, AND ORDINANCES HAVING JURISDICTION ALBEIT NOT SHOWN ON DRAWINGS OR SHOWN OTHERWISE.

2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION REQUIREMENTS.

3. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN HIS BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH INTENT OF THE ELECTRICAL DRAWINGS, SPECIFICATIONS, SERVING UTILITY COMPANY'S REQUIREMENTS AND ALL APPLICABLE CODES. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT BEFORE SUBMITTING BID. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS, POWER AND TELEPHONE SERVICE REQUIREMENTS WITH UTILITY SERVICE PLANNER AND THE EXACT SERVING UTILITY POINTS OF CONNECTION AND PROVIDE ALL SERVICE RELATED EQUIPMENT AND INSTALLATION IN BID. UTILITY SERVICE REQUIREMENTS SHOWN ON THE DRAWINGS ARE BASED ON PRELIMINARY SITE VISIT AND INFORMATION AVAILABLE AT THIS TIME OF VISIT AND ARE NOT GUARANTEED BY ENGINEER OR SERVING UTILITY COMPANY. REFER TO ARCHITECTURAL DRAWINGS AND VISIT SITE PRIOR TO BID TO REVIEW EXISTING TOPOGRAPHY MAPS, LANDSCAPING AND CONSTRUCTION TO BECOME FAMILIAR WITH SLOPE CONDITIONS AND EXISTING CONSTRUCTION AND LANDSCAPING ADJUST CONDUIT ROLITING INDICATED TO AVOID DISTURBING EXISTING CONDITION WHERE POSSIBLE. SAWCUT EXISTING SURFACE WHER REQUIRED FOR CONDUIT AND STRUCTURE INSTALLATION AND PATCH TO MATCH EXISTING. REPAIR OR REPLACE ALL SOD, LANDSCAPING, SPRINKLER SYSTEMS, CONDUITS AND WIRING, PIPING ETC. ALTERED BY THE ELECTRICAL WORK TO MATCH EXISTING AND TO MAKE SYSTEMS OPERABLE

4. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF NECA MANUAL OF GOOD WORKMANSHIP" (STANDARD OF INSTALLATION).

5. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, INCLUDING BUT NOT LIMITED TO COMPLETE ELECTRICAL SYSTEMS, POWER AND LIGHTING, TELEPHONE CONDUIT SYSTEM, SIGNAL SYSTEMS, PANELBOARDS(S), CONTROL WIRING, GROUNDING, CONDUIT ONLY SYSTEMS ETC., FOR A COMPLETE AND PROPERLY OPERATING SYSTEM, ENERGIZED THROUGHOUT AND AS INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.

6. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL UL WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, AND NBFU.

7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING DIMENSIONS AND CONDITIONS. HE SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.

8. ALL WIRING SHALL BE IN METALLIC CONDUIT. RIGID GALVANIZED CONDUIT SHALL BE USED IN OR UNDER CONCRETE SLABS ON GRADE FIVE FEET BEFORE STUBBING UP, WHERE EXPOSED TO WEATHER, AND WHERE SUBJECT TO MECHANICAL DAMAGE. PVC SCHEDULE 80 SHALL BE USED IN OR UNDER CONCRETE OR BURIED UNDERGROUND. EMT CONDUITS SHALL BE USED IN SIDE STRUCTURE OR BUILDINGS. FLEXIBLE CONDUIT SHALL BE USED WHERE THE STRUCTURAL CONDITIONS MAKE THE USE OF RIGID CONDUIT IMPRACTICAL, AND FOR SHORT CONNECTIONS TO VIBRATING EQUIPMENT. USE NEOPRENE JACKETED FLEXIBLE CONDUIT AND FITTINGS WHERE EXPOSED TO WEATHER.

9. ALL WIRING SHALL BE CONCEALED IN FINISHED AREAS. INSTALL EXPOSED RACEWAYS PARALLEL WITH OR PERPENDICULAR TO THE LINES OF BUILDING. PAINT RACEWAYS TO MATCH MOUNTING SURFACE. PENETRATIONS OF ALL WALLS OR CEILINGS SHALL BE SEALED AND FIRE RATING MAINTAINED IN ACCORDANCE WITH UL WLIOOI, UL WL50OI AND ALL LOCAL AND NATIONAL CODES. DO NOT PENETRATE OR RUN CONDUITS IN AND OUT OF RATED CORRIDOR OR STAIRWELL ENCLOSURE FOR CIRCUITS NOT INTENDED TO SERVE THE EQUIPMENT WITHIN THE ENCLOSURE. CONDUIT MUST BE RUN OUTSIDE OF RATED ENCLOSURE ENVELOPS.

10. ALL CONDUCTORS SHALL BE COPPER AND RATED 600 VOLTS. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 75°C RATED COPPER TYPE "DUAL RATED THHN/THWN" #12, & #10 SOLID, #8 AND LARGER STRANDED, CONTROLS AND SIGNAL WIRING SHALL BE STRANDED.

11. OUTLET BOXES SHALL BE CAST FERROUS METAL WITH WATERTIGHT GASKETED CAST FERROUS COVERS, THREADED HUBS, AND STAINLESS STEEL SCREWS. USE CROUSE-HINDS OR APPLETON TYPE FS OR FD BOXES OR APPROVED EQUAL BY ENGINEER.

12. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS WITH CONSTRUCTION MANAGER BEFORE ROUGH-IN.

 ELECTRICAL LAYOUT DRAWINGS ARE DIAGRAMMATIC. INSTALL THE ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH STRUCTURES OR OTHER SYSTEMS. 14. ALL SURFACE-MOUNTED ELECTRICAL EQUIPMENT AND DEVICES SHALL BE PROPERLY SECURED. PROVIDE STRUCTURAL SUPPORT AS NECESSARY FOR MOUNTING EQUIPMENT.

15. CONTRACTOR SHALL LABEL THE COVER PLATE OF EACH ELECTRICAL OUTLET AND JUNCTION BOX WITH INDELIBLE INK FELT PEN. THE LABEL SHOULD SHOW PANEL AND CIRCUIT NUMBER CONTAINED IN THE BOX.

16. GROUP CONDUITS TOGETHER AND SUPPORT WITH UNISTRUT.

17. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS. ALL EQUIPMENT AND STUB-UP LOCATIONS SHALL BE VERIFIED WITH ENGINEER BEFORE ROUGH-IN.

18. PROVIDE SEPARATE GROUND WIRE IN ALL FLEXIBLE AND PVC CONDUITS.

19. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM.

20. TEST THE ENTIRE SYSTEM TO DEMONSTRATE THAT THE ELECTRICAL COMPONENTS AND SPECIAL SYSTEMS ARE COMPLETE AND FUNCTION PROPERLY, INCLUDING BUT NOT LIMITED TO INSULATION AND GROUNDING TESTS. MAKE NECESSARY CORRECTIONS AND LEAVE SYSTEMS READY FOR OPERATION.

21. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.

22. AT COMPLETION OF THE JOB, THE ELECTRICAL CONTRACTOR SHALL PROVDE THE OWNER WITH SPARE PARTS, ALL THE EQUIPMENT MANUALS, SPARE PARTS LIST AS RECOMMENDED BY THE MANUFACTURER, EQUIPMENT REPRESENTATIVE ADDRESS AND PHONE NUMBER. FURNISH ONE (1) COMPLETED SET OF "AS-BUILT" ELECTRICAL PLANS SHOWING LOCATIONS OF OUTLETS, CONDUIT RUNS, AND PANELBOARD CIRCUIT NUMBERS. ELECTRICAL CONTRACTOR SHALL PROVIDE ACCURATE DIRECTORIES IN PANELBOARD FRONTS AT COMPLETION OF BUILD-OUT. PANELBOARD DIRECTORIES SHALL INCLUDE THE EQUIPMENT SERVED AND WATTAGE.

23. REFER TO SPRINT'S STANDARD SPECIFICATIONS AS PART OF THIS CONSTRUCTION DOCUMENT. ANY CONFLICT BETWEEN THESE DRAWINGS, SPRINT'S STANDARD SPECIFICATIONS, AND APPLICABLE CODES, THE MORE STRINGENT REQUIREMENTS SHALL PREVALL.

24. ALL WORK TO BE EXECUTED IN WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.

25. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK, UNLESS NOTED OTHERWISE AND COORDINATED WITH THE GENERAL CONTRACTOR.

 26. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO

 RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE

 FOLLOWING CRITERIA:

 FIXED EQUIPMENT ON GRADE
 33% OF OPERATING

 WEIGHT

 FIXED EQUIPMENT ON STRUCTURE
 30% OF OPERATING

 WEIGHT

 EQUIPMENT ON GRADE
 30% OF OPERATING

 WEIGHT
 80% OF OPERATING

 EQUIPMENT ON GRADE
 30% OF OPERATING

 WEIGHT
 80% OF OPERATING

 EQUIPMENT ON GRADE
 30% OF OPERATING

 EQUIPMENT ON STRUCTURE
 30% OF OPERATING

 EQUIPMENT ON STRUCTURE
 73% OF OPERATING

WEIGHT FOR FLEXIBILITY OF MOUNTED EQUIPMENT USE 2X THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE 1/3X HORIZONTAL FORCE.

27. THE CONTRACTOR AGREE THAT, IN ACCORDANCE WITH GENERALLY CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT AT ALL TIME. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.

#### CONDUITS:

1. 1-2" MINIMUM DIAMETER DUCT OF APPROVED MATERIAL WITHIN OR ON BUILDINGS-RIGID GALVANIZED STEEL (WHEN REQUIRED), OR ELECTRO-METALLIC TUBING(EMT). IN UNDERGROUND – PVC SCHEDULE 40 OR EQUIVALENT FOR STRAIGHT SECTIONS, BENDS SHALL BE PVC SCHEDULE 80. PULL ROPES IN ALL DUCTS (MIN. 3/8" POLY PULL ROPE) AND A MEASURING TAPE MUST BE IN PLACE TO DETERMINE "AS-BUILT" CONDUIT LENGTH; BOTH MUST BE IN ONE CONTINUOUS PIECE.

2. WITHIN BUILDINGS: ELECTRICAL LB'S AND CONDUITS ARE NOT ACCEPTABLE AS PULL BOXES. NO 90 DEGREE TRANSITIONS AT OR IN PULL BOXES (UNLESS A 10" BENDING RADIUS CAN BE MAINTAINED) IN-LINE PULL BOX MINIMUM DIMENSIONS =  $24^{\prime\prime}$ L X 6"W X 6"D. 30"L X 6"W X 6"D. 40"L BOXES MUST BE EASILY ACCESSIBLE (TELEPHONE COMPANY WILL NOT REMOVE CEILING TILES). VERTICAL SECTIONS OF CONDUIT WILL REQUIRE A PULL BOX EVERY 100 FEET AND APPROVED RESTRAINTS. MAXIMUM OF 300 FEET HORIZONTAL BETWEEN PULL-BOXES. MINIMUM OF 2-90 DEGREE BENDS BETWEEN PULL-BOXES. MINIMUM CONDUIT BEND RADIUS OF 10 CABLE DIAMETERS (12"), FIRE STOPPING REQUIRED WHEN OPENINGS ARE MADE IN ANY FIRE RATED BARRIER. ALL EXTERNAL CONDUIT TERMINATIONS SHALL BE WEATHER TIGHT.

3. IN UNDERGROUND CONSTRUCTION: CONDUIT LENGTH MAXIMUM OF 300 FEET BETWEEN PULL BOXES. CONDUIT BENDS MUST HAVE A RADIUS 10 TIMES CONDUIT SIZE (20").

#### TRENCHING

 MINIMUM COVERAGE OF DUCT ON PRIVATE PROPERTY – 18" UNDER CONCRETE SURFACE OR AS SPECIFIED BY PERMITTING OWNER/AGENT.

2. MINIMUM COVERAGE OF DUCT ON PRIVATE PROPERTY = 24" UNDER DIRT SURFACE OR AS SPECIFIED BY PERMITTING OWNER/AGENT.

3. MINIMUM COVERAGE OR DUCT IN PUBLIC  $R/W = 30^{"}$  BELOW GUTTER GRADE OR AS SPECIFIED BY PERMITTING AGENT.

4. MINIMUM 12" SEPARATION IN JOINT TRENCH BETWEEN POWER AND TELCO.

5. PULL BOXES - MINIMUM 17"W X 30"L.

6. SPLICE BOXES WILL BE SIZED BY SERVING TELEPHONE COMPANY: DETAILS WILL BE PROVIDED BY TELEPHONE COMPANY OR INTERCONNECT ENGINEER.

#### BONDING & GROUNDING:

1. # 6 AWG SOLID COPPER INSULATED GROUND WIRE (24" COILED IN TELCO SERVICE BOX) WITH BONDING CLAMPS IN PLACE. THE TELEPHONE GROUND MUST BE BONDED TO THE POWER GROUND. THE TELEPHONE SERVICE CABINET MUST BE BONDED TO THE TELEPHONE GROUND WIRE. ANY QUESTIONS REGARDING TELEPHONE GROUNDS SHOULD BE REFERRED TO THE INTERCONNECT ENGINEER.

2. SERVICE BOX: MINIMUM DIMENSIONS - 30"W X 36"H X 9"D. 3/4" PLYWOOD BACKBOARD MOUNTED IN SERVICE BOX. 36" CLEARANCE FROM GROUND LEVEL TO BOTTOM OF SERVICE BOX PREFERRED. FULL ACCESS FROM FRONT OF BOX; MINIMUM 36" WORKING SPACE IN FRONT AND 36" IN WIDTH. BOX MUST BE WATER RESISTANCE, NEMA 4, GALVANIZED STEEL BOX PAINTED INSIDE AND OUT AND WITH HASP AND PADLOCK.

#### GROUNDING NOTES:

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.

2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #2 GROUND WIRES AND CONNECT TO SURFACE MOUNTED GROUND BUS BARS AS SHOWN. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS USING MANUFACTURERS PRACTICES. ALL UNDERGROUND WATER PIPES, METAL CONDUITS AND GROUNDS THAT ARE A PART OF THIS SYSTEM SHALL BE BONDED TOGETHER.

3. ALL GROUND CONNECTIONS SHALL BE #2 AWG U.N.O. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE TIN COATED OR GREEN INSULATED WIRE.

4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE TO A RANGE OF 5 TO 10 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE GROUND CONDUCTOR FROM THE ANTENNA TO GROUNDING POINT. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE SPRINT REPRESENTATIVE.

5. NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.

6. BARE GROUNDING CONDUCTOR SHALL BE HARD DRAWN TINNED COPPER SIZES AS NOTED ON PLAN.

7. ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED MINIMUM 30" BELOW GRADE IN TRENCH, U.N.O., AND BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT.

8. ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM  $12^{\prime\prime}$  BENDING RADIUS NOT LESS THAN 90 DEGREES.

9. ALL SUPPORT STRUCTURES, CABLE CHANNEL WAYS OR WIRE GUIDES SHALL BE BONDED TO GROUND SYSTEM AT A POINT NEAREST THE MAIN GROUNDING BUS "MGB" WITH A MINIMUM NO. 6 TINNED COPPER CONDUCTOR AND (2) 2-HOLE COMPRESSION CONNECTOR AT BUS.

10. ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE: a. BURNDY, HY-GRADE U.L. LISTED CONNECTORS (MECHANICAL CONNECTIONS)

 b. CADWELD, EXOTHERMIC WELDS (WELDED CONNECTIONS).
 c. TWO -(2) HOLE TINNED COPPER COMPRESSION FITTINGS (BUS BAR CONNECTIONS).

11. ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED

MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP.

12. ALL GROUND CONNECTIONS SHALL BE BURNISHED AND SHALL HAVE A COATING OF "KOPR-SHIELD" OR "NO-OX-ID" APPLIED TO THE CONNECTION.

13. ALL CONNECTION HARDWARE AT EQUIPMENT SHALL BE TYPE 316 SS, OR DURIEM BRONZE. "KOPR-SHIELD" OR "NO-OX-ID" APPLIED TO THE CONNECTION. 14. THE GROUND RING SHALL BE INST BUILDING DRIP LINE.

15. ELECTRICAL SERVICE EQUIPMENT G NEC, ARTICLE 250-82 AND SHALL BOI GROUNDING ELECTRODES. NEW GROU BUT NOT LIMITED TO GROUND RODS, ( WITHIN THE RADIO EQUIPMENT LOCATIO COLD WATER PIPE WITHIN FIVE FEET C

ABBREVIATIONS:		
AWG	AMERICAN WIRE GAUGE	
AFC	AVAILABLE FAULT CURRENT	
BTCW	BARE TINNED COPPE	
BTS	BASE TRANSMISSION SYSTEM	
С	CONDUIT	
СВ	CIRCUIT BREAKER	
со	CONDUIT ONLY	
DWG	DRAWING	
EMT	ELECTRICAL METALLIC TUBING	
(E)	EXISTING EQUIPMENT	
(F)	FUTURE EQUIPMENT	
GEN	GENERATOR	
GFI	GROUND FAULT CIRCUIT INTERRHPTEF	
GND	GROUND	

### ABBREVIATIONS

SYMBOLS:

SCALE N.T.S.	3	SYMBC	DLS
O THE			EXOTHERMIC CONNECTIO GROUND RING AND COM CONNECTION TO GROUN
316 SS,		٠	CLAMP OR DOUBLE HO CONNECTION
L HAVE		۶M	SWITCH, 120AC, 20A ab — SWITCH LEG M — MANUAL MOTOR S
S (BUS		-8	DUPLEX RECEPTACLE W IN WEATHERPROOF ENC
			FUSE
BE: IICAL		þ	CIRCUIT BREAKER
S.		$\square$	UTILITY METER
GUIDES IE MAIN		마	FUSED DISCONNECT SW 2P, 30A, WEATHERPROC
THAN 90		$\boxtimes$	GROUND ROD WITH ACC
SHORT		$\otimes$	GROUND ROD, MAXIMUN
BACK		$\begin{pmatrix} x \\ x-x \end{pmatrix}$	DETAIL REFERENCE DET, NO. X ON SHEET X-X
)		—-A—	COAXIAL CABLE, DASHEI UNDERGROUND
		T	TELEPHONE LINE, DASH UNDERGROUND
OR THE VAL		—-Е—	POWER LINE, DASHED II UNDERGROUND, 3/4"C-
RANGE G RODS		G	GROUNDING WIRE, DASH UNDERGROUND

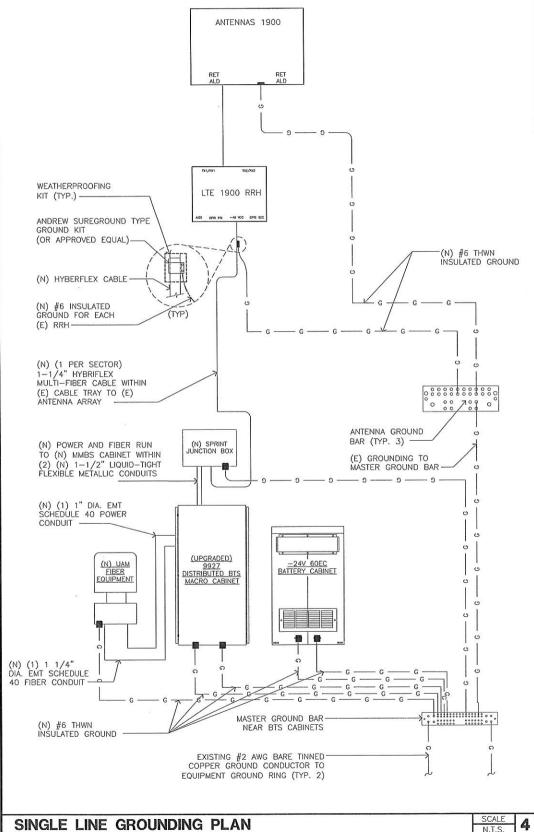
TALLED 24" MINIMUM BEYOND ANY	REV DATE/BY DESCRIPTION		
ROUNDING SHALL COMPLY WITH	0 SR PRELIMINARY CONSTRUCTION		
ND ALL EXISTING AND NEW NDING ELECTRODE SHALL INCLUDE	1 06.04.2012 PRELIMINARY FINAL CONSTRUCTION		
GROUND RING IF SERVICE IS DN, BUILDING STEEL IF APPLICABLE,	2 07.11.2012 REVISED PER RF		
OF WATER SERVICE IF APPLICABLE.			
KAIC THOUSAND AMPS INTERRHPTING CAPACITY	ENGINEER / CONSULTANT		
NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	Alcatel·Lucent		
(N) NEW	Alcaler Ebeenie		
Ø PHASE			
P POLE			
P.O.C. POINT OF CONNECTION	SITE BUILDER		
PVC POLYVINYL CHLORIDE CONDUIT			
(R) REPLACE OR REWIRE WITH AS (E)	Sprint 🥍		
RGS RIGID GALVANIZED STEEL	Together with NEXTEL		
TEL TELEPHONE			
TYP. TYPICAL	A&E DEVELOPMENT		
U.G. UNDERGROUND			
UNO UNLESS NOTED OTHERWISE	GORE		
W WIRE	DEVELOPMENT SERVICES A&E SERVICES		
WP WEATHERPROOF EQUIPMENT	2749 Saturn Street Brea, California 92821 (714)729-8404 (714)333-4441 fax www.core.us.com		
SCALE -			
N.T.S.	SEAL		
HED LINE INDICATES			
NDICATES -2#12&1#12GND, UNO			
ED LINE INDICATES	SITE INFORMATION		
	SITE NAME:		
D LINE INDICATES	DOVE		
AL	OG03XC095		
	SITE ADDRESS: 1401 DOVE ST.		
M 10'-0" SPACING.	NEWPORT BEACH, CA 92660		
CESS	ORANGE COUNTY SHEET TITLE		
/ITCH, 240V, DF, UNO	SHEET HILE		
	ELECTRICAL		
	NOTES		
	Contractor Supercontrol		
ATH GFCI CLOSURE			
	DRAWING INFORMATION		
STARTER	DRAWN BY CHECKED BY ISSUE DATE		
LE LUG TYPE GROUND	SR AP 07.11.2012		
	SHEET NUMBER		
DN (CADWELD) TO MPRESSION			
ND HALO	E-1		



Γ

1) INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.

2) GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 CROUNDING CONDUCTORS AND CONNECT TO INSULATED SUFFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.



DRAWINGS PROVIDED BY PANEL MANUFACTURE

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

