

 **Real Estate
Assets**
City Consent Application

For installation / modification of Telecommunication antenna facility on City owned property

01/17/19

Date

The City of San Diego
Real Estate Assets Department
1200 Third Avenue, Suite 1700
San Diego, California 92101

RE: Site Name: Fire Station 46 Project # SD55XC050
Site Address: 14556 Lazanja Drive, San Diego (the "Property")
Agreement: Agreement dated 05/01/2015 (the "agreement") between The City of San Diego ("City") and Sprint PCS Assets, ("Lessee" or "Permittee").

Sprint PCS Assets is seeking Consent from the City to perform the following to the above
Applicant's Name/Carrier
referenced site:

- ☒ Modify, upgrade or changes to existing equipment or Site as describe in the attached plans / photos.
- ☐ Installation of a New Wireless Communication Facility on City owned property.
- ☐ Apply for new Permit/New Agreement on existing facility - **NO** modifications or changes to Existing equipment or site.

Describe proposed project below:

Antennas (12 Total)
Remove (8) Existing Antennas
Install (12) Panel Antennas
RRHs (24 Total)
Reuse (8) Existing RRH's
Install (16) New RRH's
Install (1) Top Hat on Existing BTS Equipment Cabinet in Existing Lease Area
Install (1) New Junction Box in Existing Lease Area
Install (2) AMOB on Existing BBU Cabinet in Existing Lease Area

Pursuant to Improvements and Alterations, section of the above referenced agreement, "Lessee / Permittee shall not construct any improvements, structures or installations of the Premises or make any alterations to the Premises (with the exception of equipment replacement or repairs) without City's prior written approval."

In order to comply with such requirements, Sprint PCS Assets would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, Jessica Fernandez, Md7 LLC, agent for Sprint PCS Assets

Applicant Signature: Jessica Fernandez

☐ A one-time, **non-refundable Processing Fee** (\$4,920 for long term agreements - \$980 for Short term or ROE Permits) payable to City Treasures, MUST be paid at the time of application. This fee applies even if the agreement is never executed.

City Fire Department Department has provided its consent and approval to allow applicant to submit application for Required Permits needed for the proposed items listed herein, **with the understanding that the Department will be allowed to review the improvement plans prior to any permits being issued** and that a pre-construction meeting will be conducted with staff before any work begins, if required.

2-21-2019

Date

James Gaboury, Deputy Fire Chief

Print Name & Title

James L Gaboury Digitally signed by James L Gaboury
Date: 2019.02.21 07:34:59 -08'00'

Signature

City of San Diego, acknowledgement and consent for Fire Station 46 - 14556 Lazanja Dr
Site Location

2/28/19
Date

CYNTHIA THOMPSON
Print Name & Title

UNCLERK, PERMITS ASSAULT Signature

For READ ONLY



Approved and Stamped plans received and attached



Scan as Amendment to Agreement when executed



Processing fee received



Real Estate Assets

Exhibit A:
Description of Site and Premises

LESSEE Site No.: SD36XC279

Location: 1405 Diamond Street, San Diego, CA 92109

Assessor's Parcel Number: 416-502-07

Legal Description: Lots 1 through 10, inclusive and lots 31 through 40, inclusive, in block 162, subdivision of acre lots 67,68 77,80 and 81, Pacific Beach, together with the vacated alley and the northerly one half, expecting the southerly 23.5 feet of Emerald Street (Close) adjoining lots 31 through 40 southerly in the City of San Diego, County of San Diego, State of California, according to map thereof no. 946, filed in the Office of the County Recorder of San Diego County, April 17, 1905.

Description of Premises: An existing unmanned wireless telecommunication facility with (9) antennas and ancillary equipment concealed within FRP boxes painted and textured to match building. The associated equipment is located within an existing 250 sq. ft. equipment enclosure.

AERIAL MAP

COPYRIGHT: GOOGLE MAPS, 2013

EXISTING**PROPOSED**

SPRINT PANEL ANTENNAS INSIDE
EXISTING TOWER; PORTION OF EXISTING
TOWER TO BE REPLACED WITH FRP
(FINISHED TO MATCH EXISTING)



CITY OF SAN DIEGO-DEVELOPMENT SERVICES DEPARTMENT
ENTITLEMENTS-WIRELESS COMMUNICATION FACILITIES

EXHIBIT "A"

Project Number: 338841
Approval Date: 12/18/14
Signed (1st Sheet): _____

REPLACE EXISTING SIGNAGE WITH FRP
MATERIAL

CONTROL JOINT TO MATCH EXISTING,
ALL AROUND

PHOTOS PROVIDED BY: DCI PACIFIC

DCI PACIFIC
A|E|C WORKS

ARCHITECTURE | ENGINEERING | CONSULTING
32 EXECUTIVE PARK | SUITE 110 | IRVINE | CA 92614
T 949 475.1000 | 949 475.1001 F

Sprint
Together with NEXTEL

DePratti Inc.

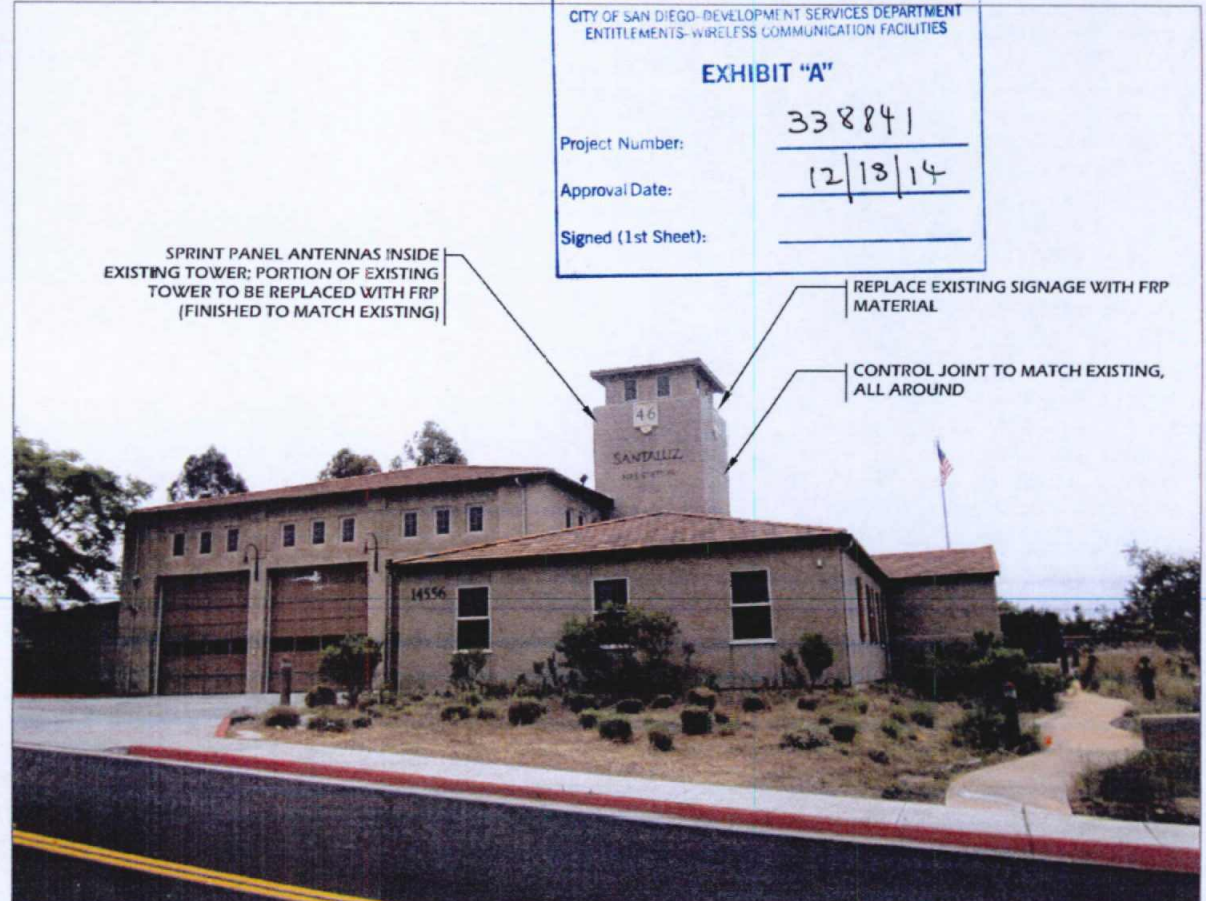
SANTA LUZ FIRE STATION 46
SD55XC050

14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

VIEW	SHEET
A	1 / 3

AERIAL MAP

COPYRIGHT: GOOGLE MAPS, 2013

EXISTING**PROPOSED**CITY OF SAN DIEGO-DEVELOPMENT SERVICES DEPARTMENT
ENTITLEMENTS-WIRELESS COMMUNICATION FACILITIES**EXHIBIT "A"**

Project Number: 338841

Approval Date: 12/18/14

Signed (1st Sheet): _____

PHOTOS PROVIDED BY: DCI PACIFIC

DCI PACIFIC
A|E|C WORKS

 ARCHITECTURE | ENGINEERING | CONSULTING
 32 EXECUTIVE PARK | SUITE 110 | IRVINE | CA 92614
 T 949.475.1000 | F 949.475.1001

Sprint
 Together with NEXTEL

DePratti Inc.
SANTA LUZ FIRE STATION 46
SD55XC050
 14556 LAZANJA DRIVE
 SAN DIEGO, CA 92127

VIEW	SHEET
B	2 / 3

AERIAL MAP

COPYRIGHT: GOOGLE MAPS, 2013

EXISTING**PROPOSED**

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DePratti Inc.

SANTA LUZ FIRE STATION 46
SD55XC050
14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

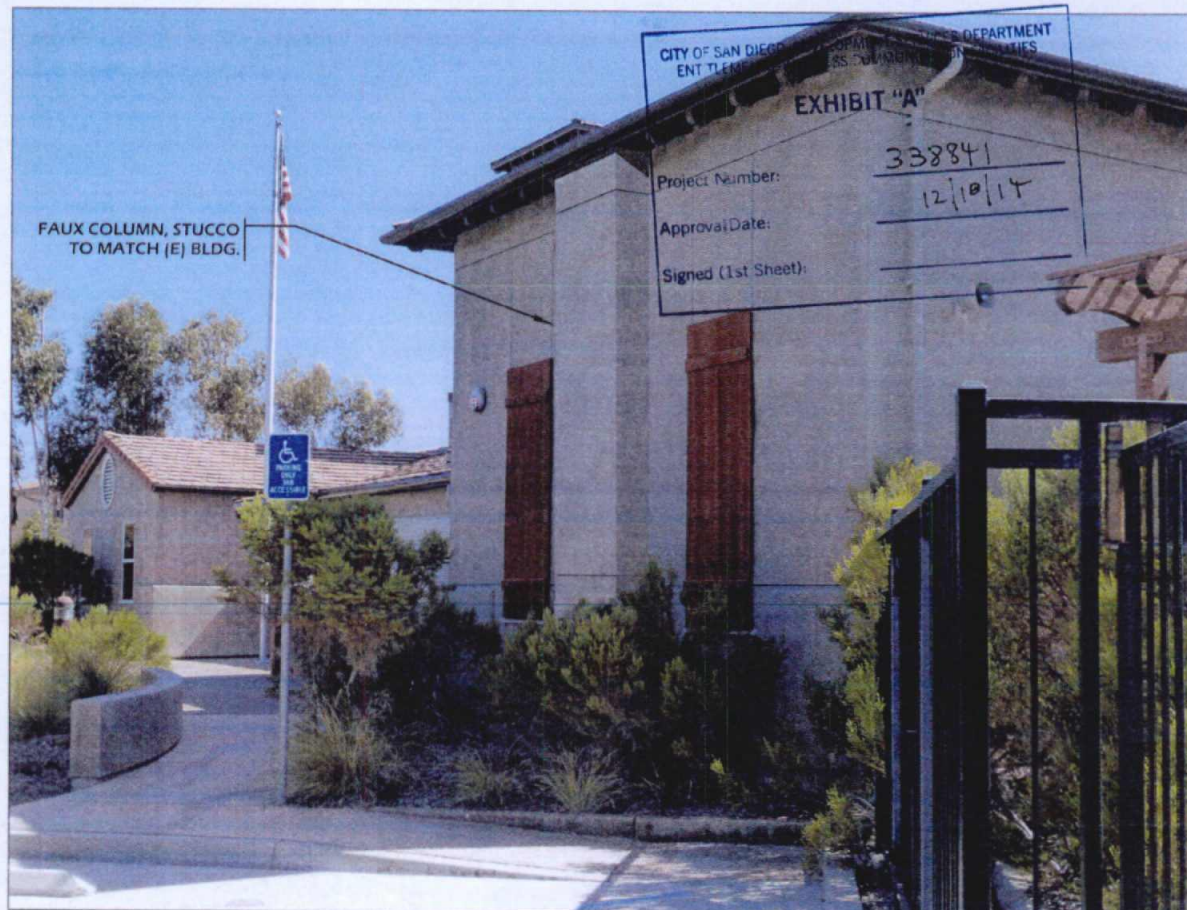
VIEW	SHEET
C	3 / 3

AERIAL MAP



COPYRIGHT: GOOGLE MAPS, 2014

PROPOSED



PHOTOS PROVIDED BY: DCI PACIFIC

EXISTING



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DePratti Inc.

SANTA LUZ FIRE STATION 46
SD55XC050
14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

VIEW	SHEET
A	1 / 2

AERIAL MAP

COPYRIGHT: GOOGLE MAPS, 2014

EXISTING**PROPOSED**

PHOTOS PROVIDED BY: DCI PACIFIC

DCI PACIFIC
A|E|C WORKS

ARCHITECTURE | ENGINEERING | CONSULTING
32 EXECUTIVE PARK | SUITE 110 | IRVINE | CA 92614
T: 949.475.1000 | 949.475.1001 F

Sprint
Together with NEXTEL

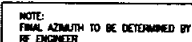
DePratti Inc.

SANTA LUZ FIRE STATION 46
SD55XC050
14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

VIEW	SHEET
B	2 / 2



Page 2 of 6



DCI PACIFIC
 A/E/C WORKS

 ARCHITECTURE | ENGINEERING | CONSULTING
 22 CRENSHAW PARK DRIVE, SUITE 100, SAN DIEGO, CA 92124
 P: 619.475.1000 F: 619.475.1001

Sprint

 300 COMMERCE SUITE 200,
 IRVINE, CA 92602
 PHONE 714 817-8042

 PROJECT DESCRIPTION:
**SANTALUZ
 FIRE STATION 48
 SD55XC050**
 1400 ALZONIA DRIVE,
 SAN DIEGO, CA 92127

 CURRENT ISSUE DTD:
09/24/14

 ZONING FOR:
ZONING
APPROVALS:

APPROVED BY:	INITIALS	DATE
LANDLORD		
LEASING		
ZONING		
BP		
CH		

DRAWN BY:	CHKD:	APP:
JP	BOX	DRG

ISSUE STATUS:

Δ	DATE	DESCRIPTION	BY
-	08/22/13	REVIEWED 100% TO #2	JP
-	10/22/13	INCORPORATE CITY COMMENTS	JED
-	10/28/14	INCORPORATE CITY COMMENTS	JP
-	04/22/14	INCORPORATE CITY COMMENTS	JP
-	07/25/14	UPDATED PER CD 07.14.14	VT
-	08/11/14	UPDATED PER CD 08.02.14	VT
-	08/24/14	UPDATED PER CD 08.24.14	VT

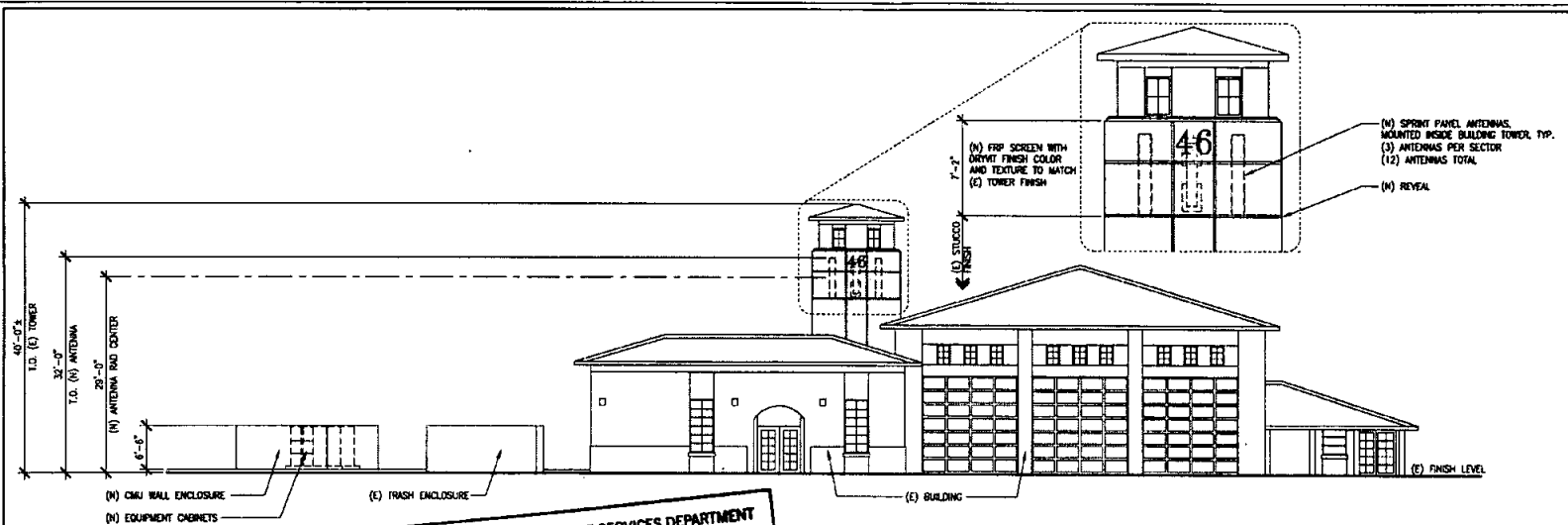
SHEET TITLE:

**SOUTH AND EAST
 ELEVATIONS**

SHEET NUMBER:

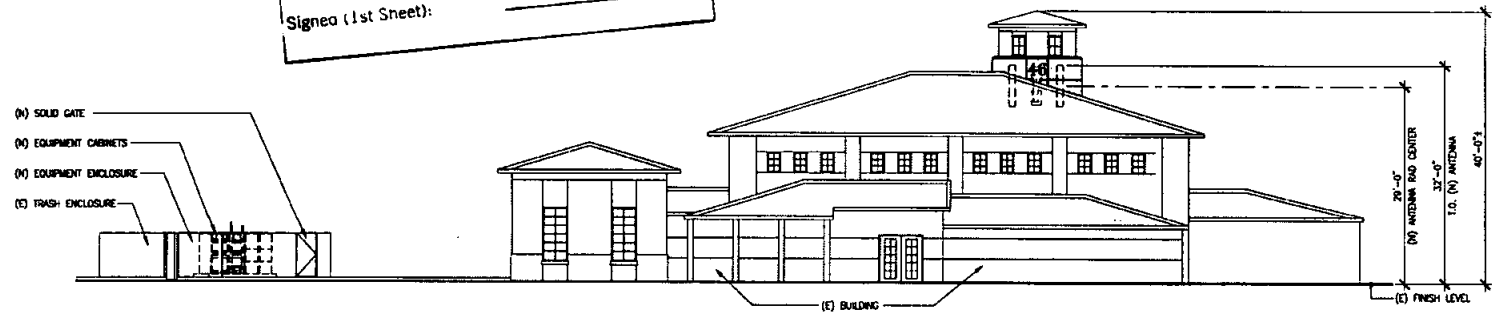
A3

ISSUE LEVEL:

 INITIALS
 SCALED

SOUTH ELEVATION

 SCALE: 1"=10'-0"
 1

**CITY OF SAN DIEGO-DEVELOPMENT SERVICES DEPARTMENT
 ENTITLEMENTS-WIRELESS COMMUNICATION FACILITIES
 EXHIBIT "A"**

 Project Number: **338841**
 Approval Date: **12/18/14**
 Signed (1st Sheet): _____

EAST ELEVATION

 SCALE: 1"=10'-0"
 2

DCI PACIFIC
 A/E/C WORKS

 ARCHITECTURE & ENGINEERING CONSULTING
 14200 PINE BLVD. SUITE 200 IRVINE, CA 92614
 P: 949.415.1000 F: 949.415.1001

Sprint

 330 COMMERCIAL SUITE 200
 IRVINE, CA 92612
 PHONE: (714) 817-3342

 PROJECT DESCRIPTION:
**SANTALUZ
 FIRE STATION 46
 SD55XC050**
 14500 LUTHERA DRIVE,
 SAN DIEGO, CA 92127

 CURRENT ISSUE DATE:
09/24/14

 ISSUED FOR:
ZONING
APPROVALS:

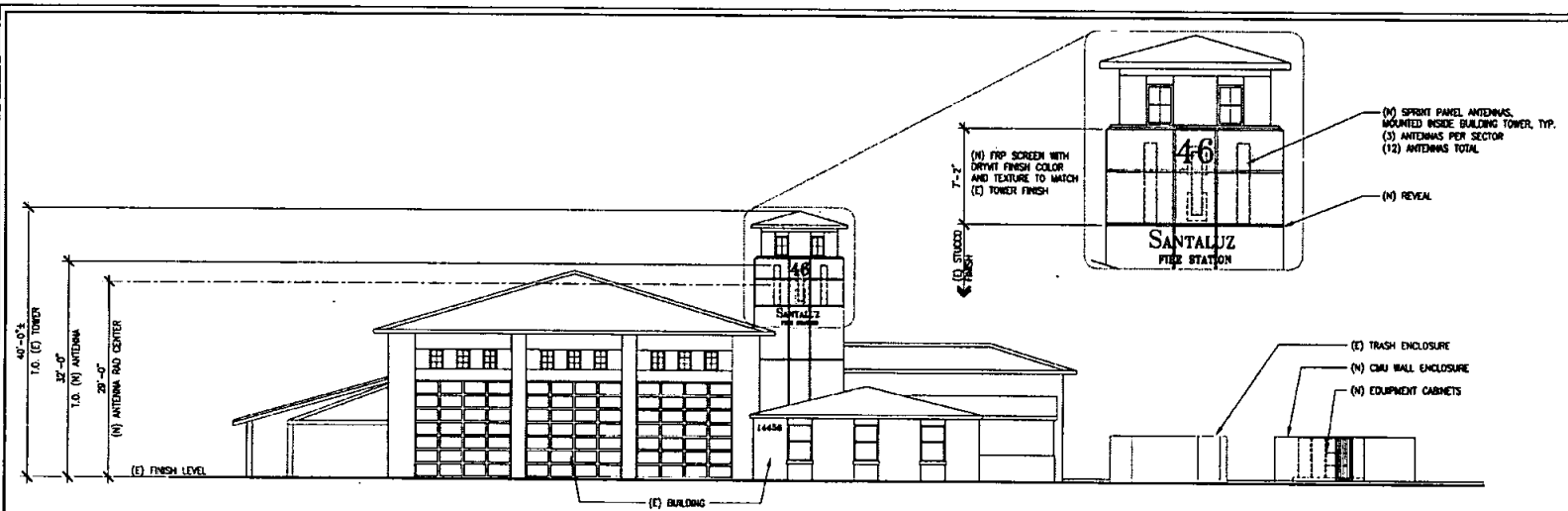
APPROVED BY:	INITIALS	DATE:
LANDLORD		
LEASING		
ZONING		
SP		
CD		

DRAWN BY:	CHEK:	APP:
SP	BOB	DND

ISSUE STATUS:

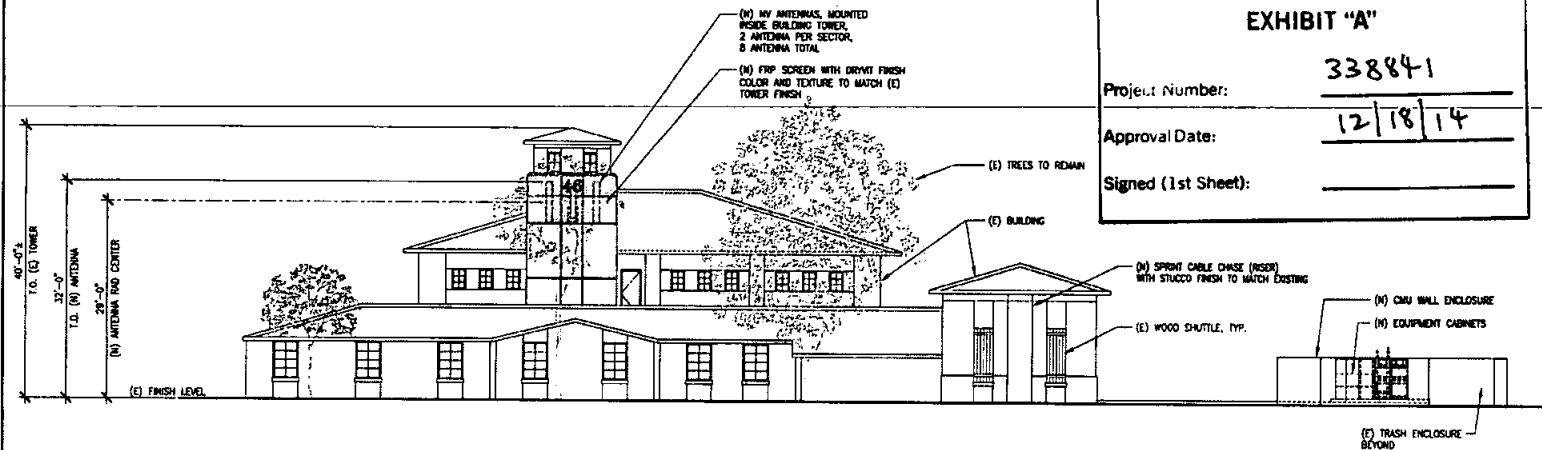
Δ	DATE	DESCRIPTION	BY:
-	06/25/13	REVISED 100% SD #2	SP
-	10/23/13	INCORPORATE CITY COMMENTS	JAD
-	12/28/13	INCORPORATE CITY COMMENTS	SP
-	04/22/14	INCORPORATE CITY COMMENTS	SP
-	07/28/14	UPDATED PER CD 07.14.14	VF
-	08/11/14	UPDATED PER CD 08.02.14	VF
-	08/24/14	UPDATED PER CD 08.24.14	VF

 SHEET TITLE:
NORTH AND WEST ELEVATIONS

 SHEET NUMBER:
A4
 ISSUE LEVEL:
 SANTALUZ
 FIRESTATION

NORTH ELEVATION

 CITY OF SAN DIEGO, DEVELOPMENT SERVICES DEPARTMENT
 ENTITLEMENTS, WIRELESS COMMUNICATION FACILITIES

EXHIBIT "A"

 Project Number: **338841**
 Approval Date: **12/18/14**
 Signed (1st Sheet): _____

WEST ELEVATION

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

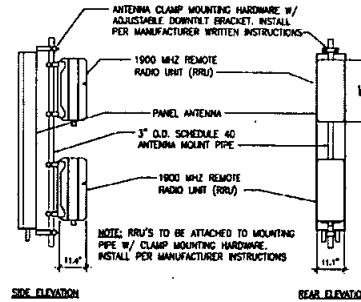
Environmental requirements

Environmental requirements for outdoor installations

Outdoor cabinet installations are exposed to variations in temperature, humidity, and ventilation.

The 9928 Distributed Base Station cabinet has been weather-hardened. When equipped with a heat exchanger, the cabinet will operate under the conditions described in the table below.

Condition	Specification
Operating temperature	-40 °C to +46 °C (-40 °F to +115 °F)
Extended operating temperature	-40 °C to 50 °C (-40 °F to 122 °F)
Relative humidity	5 to 100% (non-condensing, but not to exceed 0.024 kg water/kg of dry air)
Enclosure rating	Type 3R (NEMA) IP54 (IEC 60529)
Acoustic noise suppression	65 dBA at 25 °C (77 °F) and sea level
Operating altitude	-60.96 to 1798 m (-200 to 5,900 ft) above sea level
Extended operating altitude	-60.96 to 3048 m (-200 to 10,000 ft). An operating temperature de-rating of 1 °C per 1000 feet above 6000 feet is allowed
Wind driven rain	Refer to Telcordia GR-487-CORE
Dust and water ingress	Refer to Telcordia GR-487-CORE
Bullet resistance	Refer to Telcordia GR-487-CORE
Wind resistance	Refer to Telcordia GR-487-CORE
Storage requirements	Refer to Telcordia GR-63-CORE, Section 4.1.1



Product Data Sheet | AP05PFB

Tri-Band Dual Polarized Antenna, 800-1900 MHz, 15-18dB, 1.8m, VET, 5-10dB, 0.5m AGC Cable

The antenna is also offered for and tested for operation for high power areas. It includes 1 port x 1800 MHz and 2 ports x 800 MHz.

Key Features:

- Multiple vertical elements - provides enhanced protection in scattering incident electromagnetic waves. The dB is reduced approximately 5-10 dB.
- High impedance of all upper elements (Typically < 1M Ω)
- Independent control of electrical demands for RRH and PCS bands
- Low profile for low visual impact
- Quick and easy to install
- High front-to-back ratio
- AHS compatible (when 0.5m cable is added) - Add cable -3.2m to the model number

Technical Specifications:

Frequency Band	Power	Gain	Efficiency	SWR	VSWR	Return Loss	Impedance	Connector	Mounting	Weight	Dimensions
800-1900 MHz	15-18dB	1.8m	5-10dB	0.5m	AGC	Cable	1.8m	1.8m	1.8m	1.8m	1.8m

Ordering Information:

AP05PFB-1.8m-15-18dB-1.8m-5-10dB-0.5m-AGC-Cable

AP05PFB-1.8m-15-18dB-1.8m-5-10dB-0.5m-AGC-Cable

DCI PACIFIC
ARCHITECT WORKS

ARCHITECTURE & ENGINEERING CONSULTING
300 COMMERCIAL SUITE 200
PACIFIC, CA 92002
PHONE (714) 677-4342

Sprint

300 COMMERCIAL SUITE 200
PACIFIC, CA 92002
PHONE (714) 677-4342

PROJECT DESCRIPTION:
SANTALUZ
FIRE STATION 48
SD55XC050

1400 LADENA BLVD
SAN DIEGO, CA 92117

CURRENT DATE: 09/24/14

ISSUED FOR ZONING

APPROVALS:		
APPROVED BY:	INITIALS:	DATE:
LANDLORD		
LEASING		
ZONING		
IF		
ON		

OWNER BY:	CHK:	APP:
IF	BOX	ON

ISSUE STATUS:		
DATE:	DESCRIPTION:	BY:
09/22/14	REVISED 1000 2D 3D	IF
10/23/14	INCORPORATE CITY COMMENTS	JCD
02/28/14	INCORPORATE CITY COMMENTS	IF
04/22/14	INCORPORATE CITY COMMENTS	IF
07/28/14	UPDATED PER CD 07.14.14	VF
08/11/14	UPDATED PER CD 08.02.14	VF
08/24/14	UPDATED PER CD 08.24.14	VF

SHEET TITLE
ANTENNA AND RRH SPECIFICATIONS

SHEET NUMBER:	ISSUE LEVEL:
A5	SUBMITTAL REVISION

EQUIPMENT SPECIFICATION

SCALE: N.T.S.

5

ANTENNA AND RRH MOUNTING DETAIL

SCALE: N.T.S.

3

ANTENNA SPECIFICATIONS

SCALE: N.T.S.

1

CITY OF SAN DIEGO-DEVELOPMENT SERVICES DEPARTMENT
ENTITLEMENTS-WIRELESS COMMUNICATION FACILITIES

EXHIBIT "A"

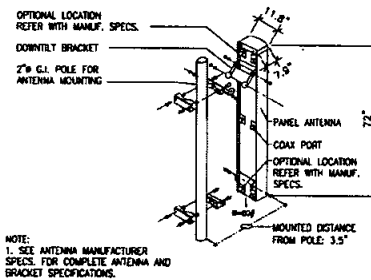
Project Number:

338841

Approval Date:

12/18/14

Signed (last Sheet):



NOTE:
1. SEE ANTENNA MANUFACTURER
SPEC. FOR COMPLETE ANTENNA AND
BRACKET SPECIFICATIONS.

Alcatel-Lucent

Product: 1800MHz RRU (R34) (R3411)

Product Description:
This Remote Radio Head (RRH) supports the 1800MHz spectrum with a Quad Transmitter and Quad Receiver configuration supporting 4x45W of output power in a dual band configuration.

Features / Benefits:

- Supports up to 8 carriers of CDMA in the 1800MHz spectrum and is hardware ready for 4x4 (4x4x4x4) dual technology.
- Supports up to 8 carriers of CDMA (single technology).
- Supports AGC
- 48V DC may be provided from Alcatel-Lucent cabinets
- Supports Hybridized fiber / power cable bundle

Technical Specifications:

Physical Dimensions (HxWxD)	22" x 11" x 11"
Weight	22 pounds
Carrier Power	4x45W (180W Total)
Frequency Range	1710-1910MHz Tx / 1850-1915 Rx
Component Power (Tx/Rx)	45W
Component Power (Tx/Rx)	45W
RF Noise Floor	-108dBm
Antenna Impedance	50Ω
Operating Temperature Range	-40 to +55°C
Power Supply	48V DC

6 ANTENNA MOUNTING DETAIL

SCALE: N.T.S.

4

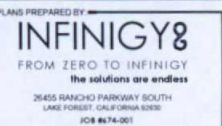
REMOTE RADIO HEAD (RRH) SPECS

SCALE: N.T.S.

2



PROJECT: B2 DO MACRO UPGRADE
SITE NAME: SANTALUZ FIRE STATION
SITE CASCADE: SD55XC050
SITE ADDRESS: 14556 LAZANJA DRIVE
SAN DIEGO, CA 92127
SITE TYPE: ROOFTOP



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REVISIONS	DATE	BY	REV
ISSUED FOR CONSTRUCTION	12/28/08	Q	0
REVISED FOR CONSTRUCTION	01/17/09	Q	1

SITE NAME: SANTALUZ FIRE STATION

SITE CASCADE: SD55XC050

SITE ADDRESS: 14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

SHEET DESCRIPTION: TITLE SHEET

SHEET NUMBER: T-1

SITE INFORMATION	AREA MAP	PROJECT DESCRIPTION	DRAWING INDEX																																
PROPERTY OWNER: CITY OF SAN DIEGO 1200 3RD AVENUE, SUITE 1700 SAN DIEGO, CA 92101 LATITUDE (NAD83): N 32° 59' 11.14" NAD83 N 32.986428° NAD83 LONGITUDE (NAD83): W -117° 09' 40.15" NAD83 W -117.152819° NAD83 COUNTY: SAN DIEGO ZONING JURISDICTION: CITY & COUNTY OF SAN DIEGO ZONING DISTRICT: AR-1-1 POWER COMPANY: SOUTHERN CALIFORNIA EDISON PARCEL NUMBER(S): 303-130-46 SPRINT AGENT: MD7, LLC 10590 WEST OCEAN AIR DR #300 SAN DIEGO, CA 92130 CONTACT: DRAKE ERICKSON PHONE: 858.291.1823 SPRING PROJECT MANAGER: 3730 FIFTH AVENUE SAN DIEGO, CA 92103 CONTACT: MEGAN MURPHY PHONE: 619.985.6638 EMAIL: maeon.murphy@sprint.com CONSTRUCTION MANAGER: 3730 FIFTH AVENUE SAN DIEGO, CA 92103 CONTACT: MIKE SEBESTA PHONE: 760.644.1027 EMAIL: michael.sebesta@sprint.com		UPGRADE TO AN EXISTING SPRINT SITE: • ANTENNAS (12 TOTAL) 1. REMOVE (8) EXISTING ANTENNAS 2. INSTALL (12) PANEL ANTENNAS • RRU'S (24 TOTAL) 1. REUSE (8) EXISTING RRU'S 2. INSTALL (16) NEW RRU'S • INSTALL (1) TOP HAT ON EXISTING BTS EQUIPMENT CABINET (NO ELECTRICAL UPGRADE) • INSTALL (1) NEW JUNCTION BOX • INSTALL (2) AMOB ON EXISTING BBU CABINET	<table><tr><th>SHEET NO:</th><th>SHEET TITLE</th></tr><tr><td>T-1</td><td>TITLE SHEET</td></tr><tr><td>SP-1</td><td>SPRINT SPECIFICATIONS</td></tr><tr><td>SP-2</td><td>SPRINT SPECIFICATIONS</td></tr><tr><td>A-1</td><td>SITE PLAN AND EQUIPMENT LAYOUT</td></tr><tr><td>A-2</td><td>LEGENDS, EQUIPMENT TABULATION AND ANTENNA LAYOUTS</td></tr><tr><td>A-3</td><td>NORTH ELEVATIONS</td></tr><tr><td>A-3.1</td><td>EAST ELEVATIONS</td></tr><tr><td>A-3.2</td><td>SOUTH ELEVATIONS</td></tr><tr><td>A-3.3</td><td>WEST ELEVATIONS</td></tr><tr><td>D-1</td><td>EQUIPMENT DETAILS</td></tr><tr><td>D-2</td><td>EQUIPMENT DETAILS</td></tr><tr><td>D-3</td><td>EQUIPMENT DETAILS</td></tr><tr><td>D-4</td><td>EQUIPMENT DETAILS</td></tr><tr><td>D-5</td><td>RF DATA SHEET</td></tr><tr><td>E-1</td><td>GRND PLAN AND DETAILS</td></tr></table>	SHEET NO:	SHEET TITLE	T-1	TITLE SHEET	SP-1	SPRINT SPECIFICATIONS	SP-2	SPRINT SPECIFICATIONS	A-1	SITE PLAN AND EQUIPMENT LAYOUT	A-2	LEGENDS, EQUIPMENT TABULATION AND ANTENNA LAYOUTS	A-3	NORTH ELEVATIONS	A-3.1	EAST ELEVATIONS	A-3.2	SOUTH ELEVATIONS	A-3.3	WEST ELEVATIONS	D-1	EQUIPMENT DETAILS	D-2	EQUIPMENT DETAILS	D-3	EQUIPMENT DETAILS	D-4	EQUIPMENT DETAILS	D-5	RF DATA SHEET	E-1	GRND PLAN AND DETAILS
SHEET NO:	SHEET TITLE																																		
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D-4	EQUIPMENT DETAILS																																		
D-5	RF DATA SHEET																																		
E-1	GRND PLAN AND DETAILS																																		
	LOCATION MAP	APPLICABLE CODES ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES: • 2016 CALIF. ADMINISTRATIVE CODE (INCL. TITLES 24 & 25) • 2016 CALIFORNIA BUILDING CODES • 2016 CALIFORNIA ELECTRICAL CODES • 2016 CALIFORNIA MECHANICAL CODES • 2016 CALIFORNIA PLUMBING CODES • 2016 CALIFORNIA FIRE CODES • 2016 CALIFORNIA ENERGY CODES • TIA-222-G STANDARD • LOCAL BUILDING CODES • CITY/COUNTY ORDINANCES																																	



THESE OUTLINE SPECIFICATIONS IN CONJUNCTION WITH THE SPRINT STANDARD CONSTRUCTION SPECIFICATIONS, INCLUDING CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.

CONTRACTOR SUPPLIED:

SUPPLIER WILL SUPPLY ALL MINOR MATERIALS NECESSARY FOR PERFORMANCE OF SERVICES. MINOR MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING ("MINOR MATERIALS"):

- CONDUIT IN LENGTHS LESS THAN OR EQUAL TO 5 FEET;
- WIRE;
- BREAKERS;
- GROUNDING CABLE;
- ANTENNA AND LINE INSTALLATION HARDWARE;
- CONDUIT CLAMPS;
- CONDUIT CONNECTORS;
- WEATHERPROOFING MATERIALS;
- GROUNDING KITS;
- MOISTURE GRIPS;
- SNAP-IN HANGERS WITH GROMMETS;
- BUTTERFLY HANGER KITS;
- COAX BLOCKS AND HARDWARE;
- ANGLE ADAPTERS, U BOLTS, AND OTHER MISCELLANEOUS HARDWARE;
- CROSSOVER PLATES;
- RET CABLES;
- PIPE MOUNTS, PIPE TO PIPE MOUNTS;
- ICE BRIDGES IN LENGTHS LESS THAN OR EQUAL TO 5 FEET;
- LIQUID TIGHT;
- COMMON CONSUMABLES, INCLUDING BUT NOT LIMITED TO TAPES, SOLVENTS, ADHESIVES, LUGS, NUTS, BOLTS, WASHERS, ETC.; AND
- SUCH OTHER MINOR MATERIALS NOT SPECIFICALLY MENTIONED IN THIS SECTION BUT WHICH ARE REASONABLY NECESSARY TO COMPLETE THE SERVICES.

SPRINT SUPPLIED:

- BASE BAND UNITS;
- BATTERY CABINETS;
- MAINTS UNIT CABINETS;
- RRH;
- RETS;
- ANTENNAS AND BRACKETS;
- NFCS;
- BATTERIES;
- JUMPERS; AND
- ANY OTH SPECIFIC EQUIPMENT (CARD, SHELF, OR CABINET) THAT NEEDS TO BE INSTALLED IN OR NEXT TO MAINTS UNIT.

SECTION 01 100 - SCOPE OF WORK

THE WORK:

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

PRECEDENCE:

SHOULD CONFLICTS OCCUR BETWEEN THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES AND THE STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE CONSTRUCTION DRAWINGS, INFORMATION ON THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE.

SITE FAMILIARITY:

CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.

ON-SITE SUPERVISION:

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE:

THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.

- DETAILS ARE INTENDED TO SHOW DESIGN INTENT. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- CONTRACTOR SHALL NOTIFY SPRINT CONSTRUCTION MANAGER OF ANY VARIATIONS PRIOR TO PROCEEDING WITH THE WORK. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS NOTED OTHERWISE. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- MARK THE FIELD SET OF DRAWINGS IN RED, DOCUMENTING ANY CHANGES FROM THE CONSTRUCTION DOCUMENTS.

METHODS OF PROCEDURE (MOPS) FOR CONSTRUCTION:

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

- TOP HAT
- HOW TO INSTALL A NEW CABINET
- BASE BAND UNIT IN EXISTING UNIT
- INSTALLATION OF BATTERIES
- INSTALLATION OF HYBRID CABLE
- INSTALLATION OF RRH
- CABLEING
- TS-0200 REV 4 - ANTENNA LINE ACCEPTANCE STANDARDS
- SPRINT CELL SITE ENGINEERING NOTICE - EN 2012-001, REV 1.
- COMMISSIONING MOPS

SECTION 01 200 - COMPANY FURNISHED MATERIAL AND EQUIPMENT

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

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

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

SECTION 01 300 - CELL SITE CONSTRUCTION

NOTICE TO PROCEED:

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

SITE CLEANLINESS:

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

SECTION 01 400 - SUBMITTALS & TESTS

ALTERNATES:

AT THE COMPANY'S REQUEST, ANY ALTERNATIVES TO THE MATERIALS OR METHODS SPECIFIED SHALL BE SUBMITTED TO SPRINTS CONSTRUCTION MANAGER FOR APPROVAL. SPRINT WILL REVIEW AND APPROVE ONLY THOSE REQUESTS MADE IN WRITING. NO VERBAL APPROVALS WILL BE CONSIDERED.

TESTS AND INSPECTIONS:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.

B. CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- COAX SWEEPS AND FIBER TESTS PER TS-0200 REV 4 ANTENNA LINE ACCEPTANCE STANDARDS.
- AZMUTH AND DOWNTILT PROVIDE AN AUTOMATED REPORT UPLOADED TO SITERA USING A COMMERCIAL MADE-FOR THE PURPOSE ELECTRONIC ANTENNA ALIGNMENT TOOL (AAT). INSTALLED AZMUTH, CENTERLINE AND DOWNTILT MUST CONFORM WITH RF CONFIGURATION DATA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF TESTING.
- ALL TESTING REQUIRED BY APPLICABLE INSTALLATION MOPS.

C. REQUIRED CLOSEOUT DOCUMENTATION INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

- AZMUTH, DOWNTILT, AZL FROM SUNSIGHT INSTRUMENTS - ANTENNA ALIGNMENT TOOL (AAT)
- SWEET AND FIBER TESTS
- SCANNABLE BARCODE PHOTOGRAPHS OF TOWER TOP AND INACCESSIBLE SERIALIZED EQUIPMENT
- ALL AVAILABLE JURISDICTIONAL INFORMATION
- PDF SCAN OF REDLINES PRODUCED IN FIELD
- A PDF SCAN OF REDLINE MARK-UPS SUITABLE FOR USE IN ELECTRONIC AS-BUILT DRAWING PRODUCTION
- LIEN WAIVERS
- FINAL PAYMENT APPLICATION
- REQUIRED FINAL CONSTRUCTION PHOTOS
- CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEFICIENT ITEMS
- ALL POST NTP TASKS INCLUDING DOCUMENT UPLOADS COMPLETED IN SITERA (SPRINTS DOCUMENT REPOSITORY OF RECORD).

12. CLOSEOUT PHOTOGRAPHS:

PROVIDE PHOTOGRAPHS OF FINAL PROJECT PER THE FOLLOWING LIST. ADDITIONAL PHOTOGRAPHS MAY BE REQUIRED TO SUPPORT ACCEPTANCE PROCESSES

- MAIN HYBRID CABLE ROUTE (MINIMUM TWO PHOTOS)
- PHOTOS OF EACH ANTENNA AND RRH
- MANUFACTURERS NAME TAG FOR ALL SERIALIZED EQUIPMENT
- PULL AND DISTRIBUTION BOXES INTERMEDIATE BETWEEN RRH AND MAINTS (DOOR OPEN)
- MAINTS CABINET WITH DOOR OPEN SHOWING MODIFICATIONS
- POWER CABINET, DOORS OPEN, BATTERIES INSTALLED
- BREAK OUT CYLINDERS
- ASR SIGNAGE FOR SPRINT OWNED TOWERS
- RADIATION EXPOSURE WARNING SIGNS
- PHOTOGRAPH FROM EACH SECTOR FROM APPROXIMATELY RAD CENTER OF ANY NEW ANTENNA AT HORIZON.

b. LOAD PHOTOS TO SITERA PROJECT LIBRARY IS. IN IS CREATE NEW CATEGORY, 250000; DEPLOYMENT; AND SECTION: PERMANENT CONSTRUCTION. LABEL PHOTOS WITH SITE CASCADE AND VIEW BEING DEPICTED. CAMERAS USED TO TAKE PHOTOGRAPHS SHALL GPS ENABLED SUCH THAT THE GPS COORDINATES ARE INCLUDED IN THE PHOTO MEDIA-FILE INFORMATION.

COMMISSIONING:

PERFORM ALL COMMISSIONING AS REQUIRED BY APPLICABLE MOPS

INTEGRATION:

PERFORM ALL INTEGRATION ACTIVITIES AS REQUIRED BY APPLICABLE MOPS

SECTION 07 500 - ROOF CUTTING, PATCHING AND REPAIR

SUMMARY:

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

1.4 SUBMITTALS:

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

SECTION 09 900 - PAINTING

QUALITY ASSURANCE:

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

B. COMPLY WITH ALL ENVIRONMENTAL REGULATIONS FOR VOLATILE ORGANIC COMPOUNDS.

MATERIALS:

A. MANUFACTURERS: BENJAMIN MOORE, KODOLCO COATINGS, PPG, SHERWIN WILLIAMS OR APPROVED EQUIV. PROVIDE PREMIUM GRADE, PROFESSIONAL-QUALITY PRODUCTS FOR COATING SYSTEMS.

PAINT SCHEDULE:

A. EXTERIOR ANTENNAE AND ANTENNA MOUNTING HARDWARE: ONE COAT OF PRIMER AND TWO FINISH COATS. PAINT FOR ANTENNAE SHALL BE NON-METALLIC BASED AND CONTAIN NO METALLIC PARTICLES. PROVIDE COLORS AND PATTERNS AS REQUIRED TO MASK APPEARANCE OF ANTENNAE ON ADJACENT BUILDING SURFACES AND AS ACCEPTABLE TO THE OWNER. REFER TO ANTENNA MANUFACTURER'S INSTRUCTIONS WHENEVER POSSIBLE.

B. ROOF TOP CONSTRUCTION: TOUCH UP - PREPARE SURFACES TO BE REPAIRED. FOLLOW INDUSTRY STANDARDS AND REQUIREMENTS OF OWNER TO MATCH EXISTING COATING AND FINISH.

PAINTING APPLICATION:

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

TOUCHUP PAINTING:

- GALVANIZING DAMAGE AND ALL BOLTS AND NUTS SHALL BE TOUCHED UP AFTER TOWER ERECTION WITH "GALVANOX," "ZINC GALV," OR "ZINC-IT."
- FIELD TOUCHUP PAINT SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ALL METAL COMPONENTS SHALL BE HANDLED WITH CARE TO PREVENT DAMAGE TO THE COMPONENTS, THEIR PRESERVATIVE TREATMENT, OR THEIR PROTECTIVE COATINGS.

SECTION 11 700 - ANTENNA ASSEMBLY, REMOTE RADIO UNITS AND CABLE INSTALLATION

SUMMARY:

THIS SECTION SPECIFIES INSTALLATION OF ANTENNAS, RRH, AND CABLE EQUIPMENT, INSTALLATION, AND TESTING OF COAXIAL FIBER CABLE.

ANTENNAS AND RRH:

THE NUMBER AND TYPE OF ANTENNAS AND RRH TO BE INSTALLED IS DETAILED ON THE CONSTRUCTION DRAWINGS.

HYBRID CABLE:

HYBRID CABLE WILL BE DC/FIBER AND FURNISHED FOR INSTALLATION AT EACH SITE. CABLE SHALL BE INSTALLED PER THE CONSTRUCTION DRAWINGS AND THE APPLICABLE MANUFACTURER'S REQUIREMENTS.

JUMPERS AND CONNECTORS:

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

REMOTE ELECTRICAL TILT (RET) CABLES:

MISCELLANEOUS:

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

ANTENNA INSTALLATION:

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

CONTINUE SHEET SP-2

PLANS PREPARED FOR

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PLANS PREPARED BY

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REVISIONS

DESCRIPTION	DATE	BY	REV
ISSUED FOR CONSTRUCTION	11/28/08	CL	0
REVISED FOR CONSTRUCTION	01/27/09	CL	1

SITE NAME

SANTALUZ FIRE STATION

SITE CASCADE

SD55XC050

SITE ADDRESS

14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

SHEET DESCRIPTION

SPRINT SPECIFICATIONS

SHEET NUMBER

SP-1

A. THE CONTRACTOR SHALL POSITION THE ANTENNA ON TOWER PIPE MOUNTS SO THAT THE BOTTOM STRUT IS LEVEL. THE PIPE MOUNTS SHALL BE PLUMB TO WITHIN 1 DEGREE.

B. ANTENNA MOUNTING REQUIREMENTS: PROVIDE ANTENNA MOUNTING HARDWARE AS INDICATED ON THE DRAWINGS.

HYBRID CABLES INSTALLATION:

A. THE CONTRACTOR SHALL ROUTE, TEST, AND INSTALL ALL CABLES AS INDICATED ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

B. THE INSTALLED RADIUS OF THE CABLES SHALL NOT BE LESS THAN THE MANUFACTURER'S SPECIFICATIONS FOR BENDING RADI.

C. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE CABLES DURING HANDLING AND INSTALLATION.

1. FASTENING MAIN HYBRID CABLES: ALL CABLES SHALL BE PERMANENTLY FASTENED TO THE COAX LADDER AT 4'-0" OC USING NON-MAGNETIC STAINLESS STEEL CLIPS.

2. FASTENING INDIVIDUAL FIBER AND DC CABLES ABOVE BREAKOUT ENCLOSURE (MEDUSA), WITHIN THE MMBB CABINET AND ANY INTERMEDIATE DISTRIBUTION BOXES:

a. FIBER: SUPPORT FIBER BUNDLES USING 1/2" VELCRO STRAPS OF THE REQUIRED LENGTH @ 18" OC. STRAPS SHALL BE UV, OIL AND WATER RESISTANT AND SUITABLE FOR INDUSTRIAL INSTALLATIONS AS MANUFACTURED BY TEXTOL OR APPROVED EQUAL.

b. DC: SUPPORT DC BUNDLES WITH ZIP TIES OF THE ADEQUATE LENGTH. ZIP TIES TO BE UV STABILIZED, BLACK NYLON, WITH TENSILE STRENGTH AT 12,000 PSI AS MANUFACTURED BY NELCO PRODUCTS OR EQUAL.

3. FASTENING JUMPERS: SECURE JUMPERS TO THE SIDE ARMS OR HEAD FRAMES USING STAINLESS STEEL WRAPS OR STAINLESS STEEL BUTTERFLY CLIPS.

4. CABLE INSTALLATION:

a. INSPECT CABLE PRIOR TO USE FOR SHIPPING DAMAGE, NOTIFY THE CONSTRUCTION MANAGER.

b. CABLE ROUTING: CABLE INSTALLATION SHALL BE PLANNED TO ENSURE THAT THE LINES WILL BE PROPERLY ROUTED IN THE CABLE ENVELOP AS INDICATED ON THE DRAWINGS. AVOID TWISTING AND CROSSEOVERS.

c. HOIST CABLE USING PROPER HOISTING GRIPS. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM BEND RADII.

5. GROUNDING OF TRANSMISSION LINES: ALL TRANSMISSION LINES SHALL BE GROUNDING AS INDICATED ON DRAWINGS.

6. HYBRID CABLE COLOR CODING: ALL COLOR CODING SHALL BE AS REQUIRED IN ITS 0200 REV 4.

7. HYBRID CABLE LABELING: INDIVIDUAL HYBRID AND DC BUNDLES SHALL BE LABELED ALPHA-NUMERICALLY ACCORDING TO SPRINT CELL SITE ENGINEERING NOTICE - EN 2012-001, REV 1

WEATHERPROOFING EXTERIOR CONNECTORS AND HYBRID CABLE GROUND KITS:

A. ALL FIBER & COAX CONNECTORS AND GROUND KITS SHALL BE WEATHERPROOFED.

B. WEATHERPROOFED USING ONE OF THE FOLLOWING METHODS. ALL INSTALLATIONS MUST BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY BEST PRACTICES.

1. COLD SHRINK: ENCOMPASS CONNECTOR IN COLD SHRINK TUBING AND PROVIDE A DOUBLE WRAP OF 2" ELECTRICAL TAPE EXTENDING 2" BEYOND TUBING. PROVIDE 3M COLD SHRINK CDS SERIES OR EQUAL.

2. SELF-AMALGAMATING TAPE: CLEAN SURFACES. APPLY A DOUBLE WRAP OF SELF-AMALGAMATING TAPE 2" BEYOND CONNECTOR. APPLY A SECOND WRAP OF SELF-AMALGAMATING TAPE IN OPPOSITE DIRECTION. APPLY DOUBLE WRAP OF 2" WIDE ELECTRICAL TAPE EXTENDING 2" BEYOND THE SELF-AMALGAMATING TAPE.

3. 3M SUM LOCK CLOSURE 716: SUBSTITUTIONS WILL NOT BE ALLOWED.

4. OPEN FLAME ON JOB SITE IS NOT ACCEPTABLE

SECTION 11 800 - INSTALLATION OF MULTIMODAL BASE STATIONS (MMBS) AND RELATED EQUIPMENT

SUMMARY:

A. THIS SECTION SPECIFIES MMBS CABINETS, POWER CABINETS, AND INTERNAL EQUIPMENT INCLUDING BY NOT LIMITED TO RECTIFIERS, POWER DISTRIBUTION UNITS, BASE BAND UNITS, SURGE ARRESTORS, BATTERIES, AND SIMILAR EQUIPMENT FURNISHED BY THE COMPANY FOR INSTALLATION BY THE CONTRACTOR (OFC).

B. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS MATERIALS AND PROVIDE ALL LABOR REQUIRED FOR INSTALLATION EQUIPMENT IN EXISTING CABINET OR NEW CABINET AS SHOWN ON DRAWINGS AND AS REQUIRE BY THE APPLICABLE INSTALLATION MOPS.

C. COMPLY WITH MANUFACTURERS INSTALLATION AND START-UP REQUIREMENTS

DC CIRCUIT BREAKER LABELING

A. LABEL CIRCUIT BREAKERS ACCORDING TO SPRINT CELL SITE ENGINEERING NOTICE - EN 2012-001, REV 1.

SECTION 11 800 - INSTALLATION OF MULTIMODAL BASE STATIONS (MMBS) AND RELATED EQUIPMENT

SUMMARY:

A. THIS SECTION SPECIFIES MMBS CABINETS, POWER CABINETS, AND INTERNAL EQUIPMENT INCLUDING BY NOT LIMITED TO RECTIFIERS, POWER DISTRIBUTION UNITS, BASE BAND UNITS, SURGE ARRESTORS, BATTERIES, AND SIMILAR EQUIPMENT FURNISHED BY THE COMPANY FOR INSTALLATION BY THE CONTRACTOR (OFC).

B. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS MATERIALS AND PROVIDE ALL LABOR REQUIRED FOR INSTALLATION EQUIPMENT IN EXISTING CABINET OR NEW CABINET AS SHOWN ON DRAWINGS AND AS REQUIRE BY THE APPLICABLE INSTALLATION MOPS.

C. COMPLY WITH MANUFACTURERS INSTALLATION AND START-UP REQUIREMENTS

SUPPORTING DEVICES:

A. MANUFACTURED STRUCTURAL SUPPORT MATERIALS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE FOLLOWING:

1. ALLED TUBE AND CONDUIT
2. B-LINE SYSTEM
3. SUNSTRAUT DIVERSIFIED PRODUCTS
4. THOMAS & BETTS

B. FASTENERS: TYPES, MATERIALS, AND CONSTRUCTION FEATURES AS FOLLOWS:

1. EXPANSION ANCHORS: CARBON STEEL WEDGE OR SLEEVE TYPE.
2. POWER-DRIVEN THREADED STUDS: HEAT-TREATED STEEL, DESIGNED SPECIFICALLY FOR THE INTENDED SERVICE.
3. FASTEN BY MEANS OF WOOD SCREWS ON WOOD.
4. TOGGLE BOLTS ON MOLLOW MASONRY UNITS.
5. CONCRETE INSERTS OR EXPANSION BOLTS ON CONCRETE OR SOLID MASONRY.
6. MACHINE SCREWS, WELDED THREADED STUDS, OR SPRING-TENSION CLAMPS ON STEEL.
7. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE SHALL NOT BE PERMITTED.
8. DO NOT WELD CONDUIT, PIPE STRAPS, OR ITEMS OTHER THAN THREADED STUDS TO STEEL STRUCTURES.
9. IN PARTITIONS OF LIGHT STEEL CONSTRUCTION, USE SHEET METAL SCREWS.

SUPPORTING DEVICES:

A. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC.

B. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER TRADES.

C. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTING HARDWARE SECURELY TO THE STRUCTURE IN ACCORDANCE WITH THE FOLLOWING:

D. ENSURE THAT THE LOAD APPLIED BY ANY FASTENER DOES NOT EXCEED 25 PERCENT OF THE PROOF TEST LOAD.

E. USE VIBRATION AND SHOCK-RESISTANT FASTENERS FOR ATTACHMENTS TO CONCRETE SLABS.

ELECTRICAL IDENTIFICATION:

A. UPDATE AND PROVIDE TYPED CIRCUIT BREAKER SCHEDULES IN THE MOUNTING BRACKET, INSIDE DOORS OF AC PANEL BOARDS WITH ANY CHANGES MADE TO THE AC SYSTEM.

B. BRANCH CIRCUITS FEEDING AVIATION OBSTRUCTION LIGHTING EQUIPMENT SHALL BE CLEARLY IDENTIFIED AS SUCH AT THE BRANCH CIRCUIT PANELBOARD.

SECTION 28 200 - ELECTRICAL MATERIALS AND EQUIPMENT

CONDUIT:

A. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL BE USED FOR EXTERIOR LOCATIONS ABOVE GROUND AND IN UNFINISHED INTERIOR LOCATIONS AND FOR ENCASED RUNS IN CONCRETE. RIGID CONDUIT AND FITTINGS SHALL BE STEEL, COATED WITH ZINC EXTERIOR AND INTERIOR BY THE HOT DIP GALVANIZING PROCESS. CONDUIT SHALL BE PRODUCED TO ANSI SPECIFICATIONS C80.1, FEDERAL SPECIFICATION WW-C-581 AND SHALL BE LISTED WITH THE UNDERWRITERS' LABORATORIES. FITTINGS SHALL BE THREADED - SET SCREW OR COMPRESSION FITTINGS WILL NOT BE ACCEPTABLE. RGS CONDUITS SHALL BE MANUFACTURED BY ALLED, REPUBLIC OR WHEATLAND.

B. UNDERGROUND CONDUIT IN CONCRETE SHALL BE POLYVINYLCHLORIDE (PVC) SUITABLE FOR DIRECT BURIAL AS APPLICABLE. JOINTS SHALL BE BELLED, AND FLUSH SOLVENT WELDED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONDUIT SHALL BE CARLON ELECTRICAL PRODUCTS OR APPROVED EQUAL.

C. TRANSITIONS BETWEEN PVC AND RIGID (RGS) SHALL BE MADE WITH PVC COATED METALLIC LONG SWEEP RADIUS ELBOWS.

D. EMT OR RIGID GALVANIZED STEEL CONDUIT MAY BE USED IN FINISHED SPACES CONCEALED IN WALLS AND CEILINGS. EMT SHALL BE MILD STEEL, ELECTRICALLY WELDED, ELECTRO-GALVANIZED OR HOT-DIPPED GALVANIZED AND PRODUCED TO ANSI SPECIFICATION C80.1, FEDERAL SPECIFICATION WW-C-581, AND SHALL BE UL LISTED. EMT SHALL BE MANUFACTURED BY ALLED, REPUBLIC OR WHEATLAND, OR APPROVED EQUAL. FITTINGS SHALL BE METALLIC COMPRESSION. SET SCREW CONNECTIONS SHALL NOT BE ACCEPTABLE.

E. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR FINAL CONNECTION TO EQUIPMENT. FITTINGS SHALL BE METALLIC GLAND TYPE COMPRESSION FITTINGS, MAINTAINING THE INTEGRITY OF CONDUIT SYSTEM. SET SCREW CONNECTIONS SHALL NOT BE ACCEPTABLE. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED 6-FEET. LFMC SHALL BE PROTECTED AND SUPPORTED AS REQUIRE BY NEC. MANUFACTURERS OF FLEXIBLE CONDUITS SHALL BE CAROL, ANACONDA METAL HOSE OR UNIVERSAL METAL HOSE, OR APPROVED EQUAL.

F. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH (21MM).

HUBS AND BOXES:

A. AT ENTRANCES TO CABINETS OR OTHER EQUIPMENT NOT HAVING INTEGRAL THREADED HUBS PROVIDE METALLIC THREADED HUBS OF THE SIZE AND CONFIGURATION REQUIRED. HUB SHALL INCLUDE LOCKNUT AND NEOPRENE O-RING SEAL. PROVIDE IMPACT RESISTANT 105 DEGREE C PLASTIC BUSHINGS TO PROTECT CABLE INSULATION.

B. CABLE TERMINATION FITTINGS FOR CONDUIT

1. CABLE TERMINATORS FOR RGS CONDUITS SHALL BE TYPE CRC BY O-2/GEDNEY OR EQUAL.

2. CABLE TERMINATORS FOR LFMC SHALL BE ETCD - CL2075; OR MADE FOR THE PURPOSE PRODUCTS BY ROKTEC.

C. EXTERIOR PULL BOXES AND PULL BOXES IN INTERIOR INDUSTRIAL AREAS SHALL BE PLATED CAST ALLOY, HEAVY DUTY, WEATHERPROOF, DUST PROOF, WITH GASKET, PLATED IRON ALLOY COVER AND STAINLESS STEEL COVER SCREWS, CROUSE-HINDS WAB SERIES OR EQUAL.

D. CONDUIT OUTLET BODIES SHALL BE PLATED CAST ALLOY WITH SIMILAR GASKETED COVERS. OUTLET BODIES SHALL BE OF THE CONFIGURATION AND SIZE SUITABLE FOR THE APPLICATION. PROVIDE CROUSE-HINDS FORM 8 OR EQUAL.

E. MANUFACTURER FOR BOXES AND COVERS SHALL BE HOFFMANN SQUARE "D", CROUSE-HINDS, COOPER, ADALET, APPLETON, O-2 GEDNEY, RAGO, OR APPROVED EQUAL.

SUPPLEMENTAL GROUNDING SYSTEM

A. FURNISH AND INSTALL A SUPPLEMENTAL GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS. SUPPORT SYSTEM WITH NON-MAGNETIC STAINLESS STEEL CLIPS WITH RUBBER GROMMETS. GROUNDING CONNECTORS SHALL BE THINNED COPPER WIRE, SIZES AS INDICATED ON THE DRAWINGS. PROVIDE STRANDED OR SOLID BARE OR INSULATED CONDUCTORS AS INDICATED.

B. SUPPLEMENTAL GROUNDING SYSTEM: ALL CONNECTIONS TO BE MADE WITH CAD WELDS, EXCEPT AT EQUIPMENT USE LUGS OR OTHER AVAILABLE GROUNDING MEANS AS REQUIRED BY MANUFACTURER; AT GROUND BARS USE TWO HOLE SPADES WITH NO OX.

C. STOLEN GROUND-BARS: IN THE EVENT OF STOLEN GROUND BARS, CONTACT SPRINT CM FOR REPLACEMENT INSTRUCTION USING THREADED ROD KITS.

EXISTING STRUCTURE:

A. EXISTING EXPOSED WIRING AND ALL EXPOSED OUTLETS, RECEPTACLES, SWITCHES, DEVICES, BOXES, AND OTHER EQUIPMENT THAT ARE NOT TO BE UTILIZED IN THE COMPLETED PROJECT SHALL BE REMOVED OR DE-ENERGIZED AND CAPPED IN THE WALL, CEILING, OR FLOOR SO THAT THEY ARE CONCEALED AND SAFE. WALL, CEILING, OR FLOOR SHALL BE PATCHED TO MATCH THE ADJACENT CONSTRUCTION.

CONDUIT AND CONDUCTOR INSTALLATION:

A. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE. MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FINISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.

B. CONDUCTORS SHALL BE PULLED IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE.

PLANS PREPARED FOR

Sprint

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SAN DIEGO, CA 92103

PLANS PREPARED BY

INFINIGY8

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LAKE FOREST, CALIFORNIA 92530
JOB 0674-001

CONSULTANT:

md7

MD7, LLC
10495 WEST OCEAN AVE. #800
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619.799.7800

ENGINEERING LICENSE:



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REVISION:

DESCRIPTION	DATE	BY	REV
ISSUED FOR CONSTRUCTION	12/28/18	Q	0
REVISED FOR CONSTRUCTION	01/17/19	Q	1

SITE NAME:

SANTALUZ FIRE STATION

SITE CASCADE:

SD55XC050

SITE ADDRESS:

14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

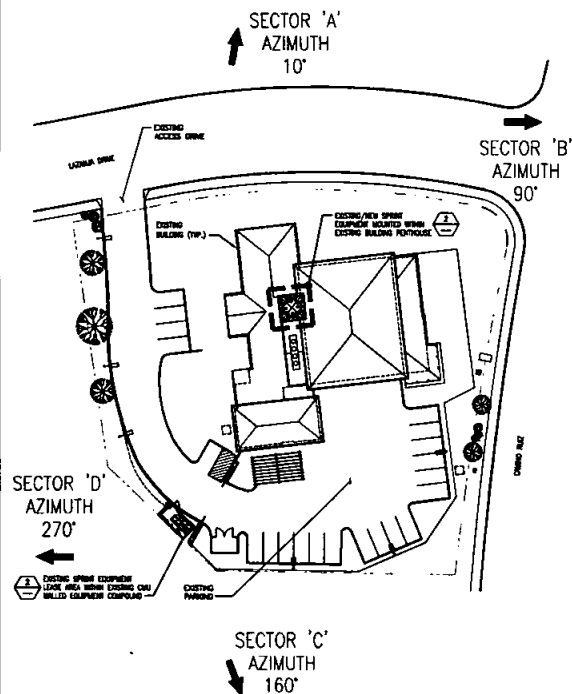
SHEET DESCRIPTION:

SPRINT SPECIFICATIONS

SHEET NUMBER:

SP-2

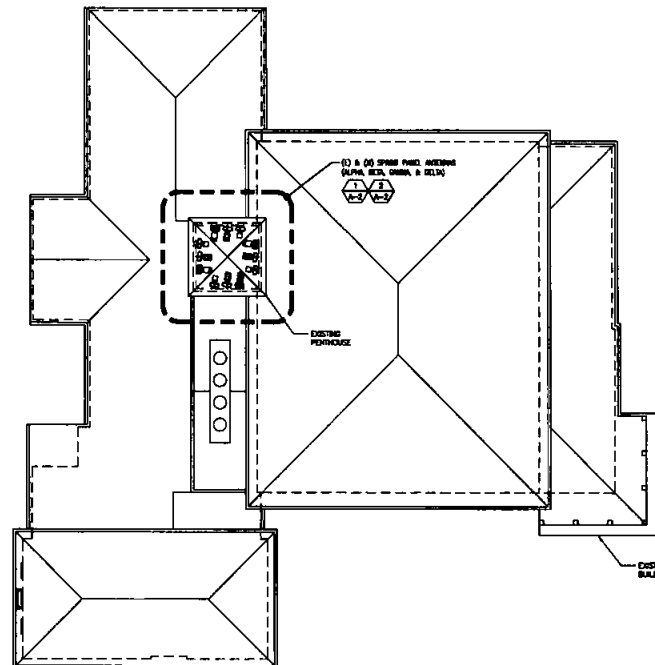
NOTE:
PROPERTY INFORMATION NOT AVAILABLE
UPON COURSE OF THESE PLANS.



SITE PLAN

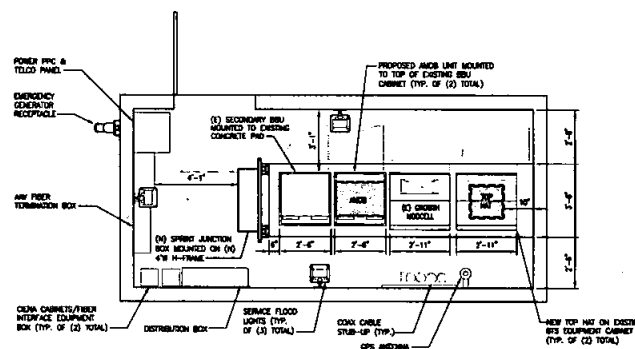
1

NOTE:
SITE PLAN IS PRELIMINARY AND DOES
NOT SHOW THE RESULTS OF A SURVEY.



ROOF PLAN

2



EQUIPMENT LAYOUT

3

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SITE NAME

SANTALUZ FIRE STATION

SITE ADDRESS

SD55XC050

SITE ADDRESS

14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

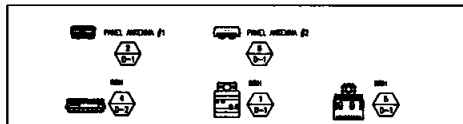
SHEET DESCRIPTION

SITE PLAN & EQUIPMENT LAYOUT

SHEET NUMBER

A-1

LEGENDS:



EXISTING AND NEW EQUIPMENT TABULATION (TOTAL COUNT)

THIS PROJECT ACCORDS FOR THE EQUIPMENT LISTED ON THE TABLE BELOW. THIS GROUNDING AND CALCULATIONS DO NOT SUPERSEDE PREVIOUS CALCULATIONS PROVIDED BY THE ORIGINAL PROJECT OR ENGINEER.

EXISTING & NEW EQUIPMENT	EXISTING	REMOVE	NEW	TOTAL	WEIGHT (APPROX.) LBS	
(TOTAL COUNT)					PER UNIT	TOTAL
PANEL ANTENNA (2/3-1)	0	0	4	4	163.7	654.8
PANEL ANTENNA (5/3-1)	0	0	0	0	36.1	0.0
MM (2/3-1)	0	0	0	0	53.0	0.0
MM (1/3-1)	0	0	0	0	35.0	0.0
MM (1/3-2)	0	0	0	0	76.0	0.0
					TOTAL:	2,215.8

NOTE: EQUIPMENT LESS THAN 50 LBS ARE CONSIDERED MISCELLANEOUS ITEMS AND ARE NOT SHOWN.

SECTION	TYPE	LENGTH (FEET)
ALPHA	FIBER	120
BETA	FIBER	120
GAMMA	FIBER	120
DELTA	FIBER	120

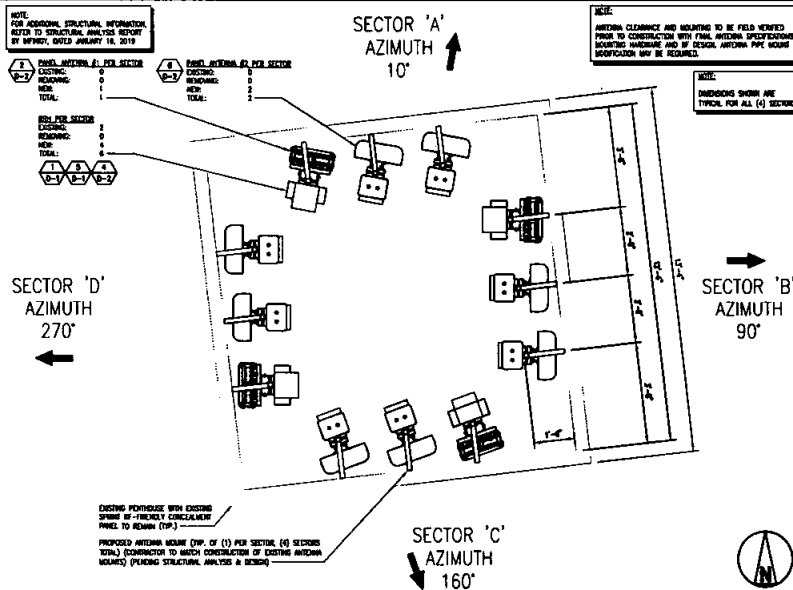
NOTE: CABLE LENGTHS ARE APPROXIMATE AND HAVE NOT BEEN FIELD VERIFIED BY SPRINT.

LEGENDS & EQUIPMENT TABULATION

NO SCALE 3

EXISTING ANTENNA LAYOUT

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



DETAIL NOT USED

NO SCALE 4

PROPOSED ANTENNA LAYOUT

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

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2	REVISED FOR CONSTRUCTION	01/17/19	GL	1

SITE NAME:

SANTALUZ FIRE STATION

SITE ADDRESS:

SD55XC050

SITE ADDRESS:

14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

SHEET DESCRIPTION:

LEGENDS, EQUIP TABULA & ANTENNA LAYOUTS

SHEET NUMBER:

A-2

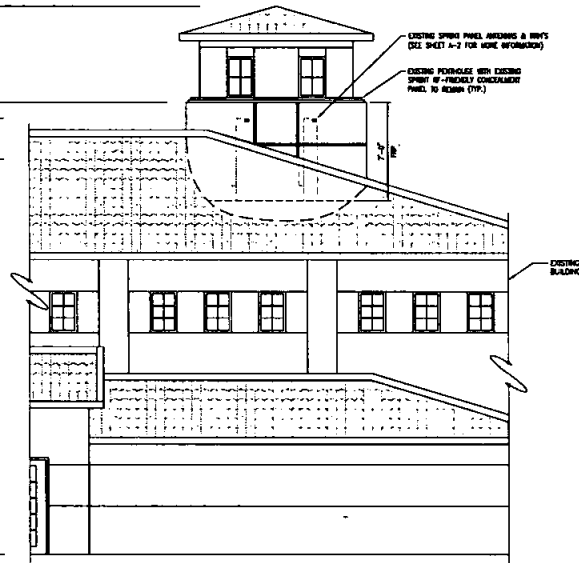
TOP OF AT BUILDING
647'-9"

TOP OF AT FIF
637'-10"

TOP OF AT SPRINK PANEL ANCHORS
637'-10"

END COVER OF AT SPRINK PANEL ANCHORS
638'-10"

EXIST'G FINISH GRADE
637'-9"



EXISTING EAST ELEVATION (SECTOR 'B')

NOTE:
VIEW OF BUILDING ELEVATION OF CORNER FOR CLARITY
PURPOSES TO ONLY SHOW LOCATION OF SECTOR BOUND

SCALE
1/8\"/>

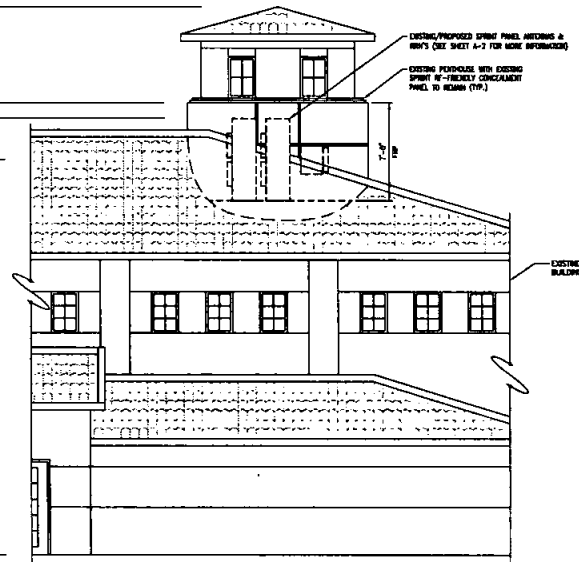
TOP OF AT BUILDING
647'-9"

TOP OF AT FIF
637'-10"

TOP OF AT SPRINK PANEL ANCHORS
637'-10"

END COVER OF AT SPRINK PANEL ANCHORS
638'-10"

EXIST'G FINISH GRADE
637'-9"



PROPOSED EAST ELEVATION (SECTOR 'B')

NOTE:
VIEW OF BUILDING ELEVATION OF CORNER FOR CLARITY
PURPOSES TO ONLY SHOW LOCATION OF SECTOR BOUND

NOTE:
FOR ADDITIONAL STRUCTURAL INFORMATION
REFERS TO STRUCTURAL ANALYSIS REPORT
BY SPRINT, DATED JANUARY 16, 2018

SCALE
1/8\"/>

PLANS PREPARED FOR

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ISSUED FOR CONSTRUCTION		12/28/18	Q	0
REVISED FOR CONSTRUCTION		01/17/18	Q	1

SITE NAME

SANTALUZ FIRE STATION

SITE CANVASE

SD55XC050

SITE ADDRESS

14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

SHEET DESCRIPTION

EAST ELEVATIONS

SHEET NUMBER

A-3.1

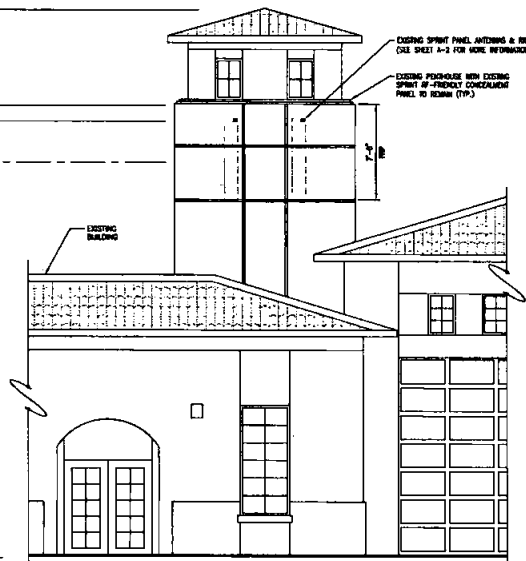
TOP OF ALL BUILDING
240'-0"

TOP OF ALL TYP
237'-10"

TOP OF ALL SPRINT PANEL ANTENNAS
237'-10"

END CENTER OF ALL SPRINT PANEL ANTENNAS
236'-10"

(NOT) FINISH GRADE
0'-0"



EXISTING SOUTH ELEVATION (SECTOR 'C')

TOP OF ALL BUILDING
240'-0"

TOP OF ALL TYP
237'-10"

TOP OF ALL SPRINT PANEL ANTENNAS
237'-10"

END CENTER OF ALL SPRINT PANEL ANTENNAS
236'-10"

(NOT) FINISH GRADE
0'-0"



PROPOSED SOUTH ELEVATION (SECTOR 'C')

NOTE:
VIEW OF BUILDING ELEVATION CUT DOWN FOR CLARITY
PURPOSED TO ONLY SHOW LOCATION OF SECTOR MOUNT

NOTE:
VIEW OF BUILDING ELEVATION CUT DOWN FOR CLARITY
PURPOSED TO ONLY SHOW LOCATION OF SECTOR MOUNT

NOTE:
FOR ADDITIONAL STRUCTURAL INFORMATION
REFER TO STRUCTURAL ANALYSIS REPORT
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SAN DIEGO, CA 92103

PLANS PREPARED BY:

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1	ISSUED FOR CONSTRUCTION	12/28/18	CL	0
2	REVISED FOR CONSTRUCTION	01/17/19	CL	1

SITE NAME:

SANTALUZ FIRE STATION

SITE CARCADE:

SD55XC050

SITE ADDRESS:

14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

SHEET DESCRIPTION:

SOUTH ELEVATIONS

SHEET NUMBER:

A-3.2

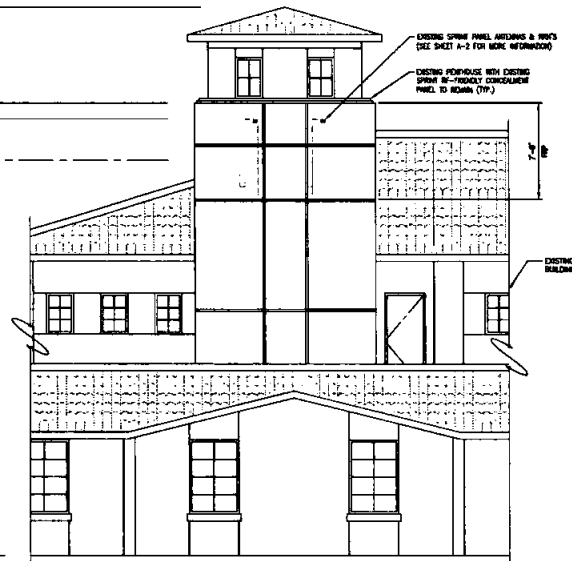
TOP OF (A) BUILDING
240'-0"

TOP OF (A) FIP
232'-10"

TOP OF (A) SPRINK PANEL ANTENNA
231'-10"

END CENTER OF (A) SPRINK PANEL ANTENNA
230'-0"

DATE: 1/28/18
1/28



NOTE:
VIEW OF BUILDING ELEVATION CUT DOWN FOR CLARITY
PURPOSES TO ONLY SHOW LOCATION OF SECTOR BEING

EXISTING WEST ELEVATION (SECTOR 'D')

SCALE: 1/4"=1'-0"

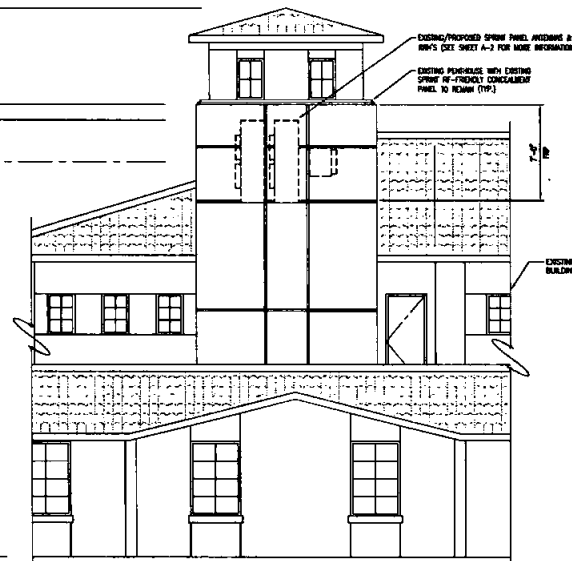
TOP OF (A) BUILDING
240'-0"

TOP OF (A) FIP
232'-10"

TOP OF (A) SPRINK PANEL ANTENNA
231'-10"

END CENTER OF (A) SPRINK PANEL ANTENNA
230'-0"

DATE: 1/28/18
1/28



NOTE:
VIEW OF BUILDING ELEVATION CUT DOWN FOR CLARITY
PURPOSES TO ONLY SHOW LOCATION OF SECTOR BEING

NOTE:
FOR ADDITIONAL STRUCTURAL INFORMATION
REFER TO STRUCTURAL ANALYSIS REPORT
BY INTRCO, DATED JANUARY 16, 2018

PROPOSED WEST ELEVATION (SECTOR 'D')

SCALE: 1/4"=1'-0"

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REVISIONS	DESCRIPTION	DATE	BY	REV
1	ISSUED FOR CONSTRUCTION	12/28/18	Q	0
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SITE NAME:

SANTALUZ FIRE STATION

SITE CASCADE:

SD55XC050

SITE ADDRESS:

14556 LAZANJA DRIVE
SAN DIEGO, CA 92127

SHEET DESCRIPTION:

WEST ELEVATIONS

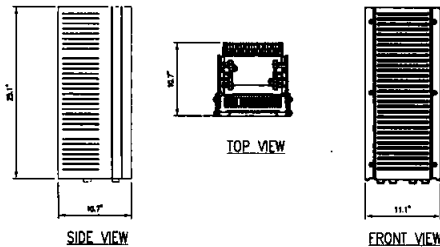
SHEET NUMBER:

A-3.3

1900 MHz 4X45W 65 MHz RRH

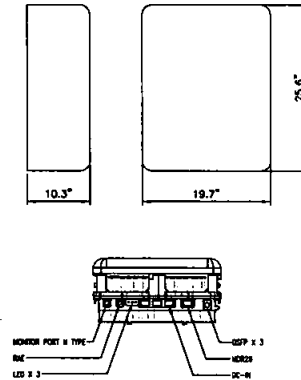
MANUFACTURER: ALUCAL-LUCENT
MODEL: COMPOSITE DUAL TECH 6500W
WEIGHT: 25.3 LBS

RRH CABINET	CLEARANCES MM (INCHES)	COMMENTS
FRONT	914 (36)	INSTALLATION ACCESS
REAR	50 (1.97)	0" CLR W/ MOUNTING BRACKETS
RIGHT	300 (11.82)	AIR FLOW
LEFT	300 (11.82)	AIR FLOW
TOP	300 (11.82)	AIR FLOW
BOTTOM	355 (14)	CONDUIT ROUTING

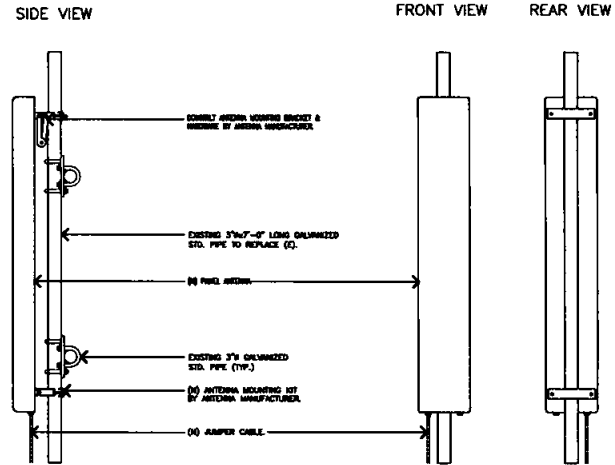


PANEL ANTENNA SPECIFICATIONS

MANUFACTURER: HARRIS
MODEL: 2.5G 10W-10W (HARRIS)
DIMENSIONS (INCHES): 25.6" x 19.7" x 10.3"
WEIGHT: 10.3 LBS



NOTE: REFER TO SHEET D-1 FOR THE MOUNTING BRACKET SPECIFICATIONS



REMOTE RADIO HEAD (RRH)

NO SCALE

1

PANEL ANTENNA

NO SCALE

2

ANTENNA PIPE MOUNT

NO SCALE

3

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SITE NAME

SANTALUZ FIRE STATION

SITE CADENCE

SD55XC050

SITE ADDRESS

14556 LAZANIA DRIVE
SAN DIEGO, CA 92127

SHEET DESCRIPTION

EQUIPMENT DETAILS

SHEET NUMBER

D-1

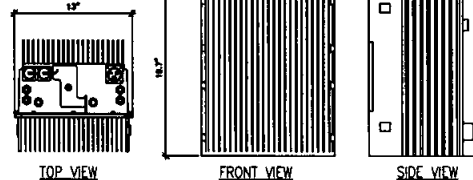
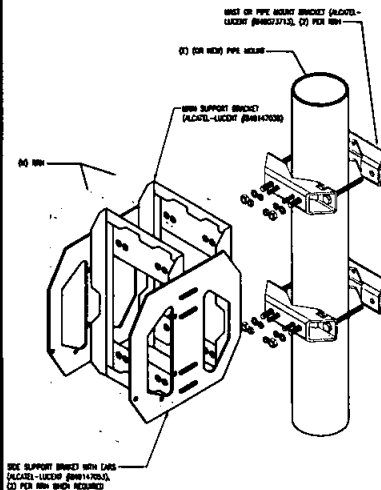
800 MHz RRH

MANUFACTURER: ALUCAL-LUCENT
MODEL: COMPOSITE DUAL TECH 200W
WEIGHT: 5.3 LBS

PHYSICAL DIMENSIONS (INCHES): 18.7" x 12.7" x 10.6"
WEIGHT: 5.3 LBS
SUPPLY POWER: 200W (MAX TYPICAL)
FREQUENCY RANGE: 800.075 - 800.125 / 817.275 - 817.325 MHz
CONTAINED POWER (TYP): 40W
MECHANICAL INTERFACE: 7/16 DIN FEMALE
OPERATING TEMPERATURE RANGE: -40C TO +50C (WITH SOLAR LOADING), +50C (WITHOUT SOLAR LOADING)
SUPPORTS: AISC 3.6

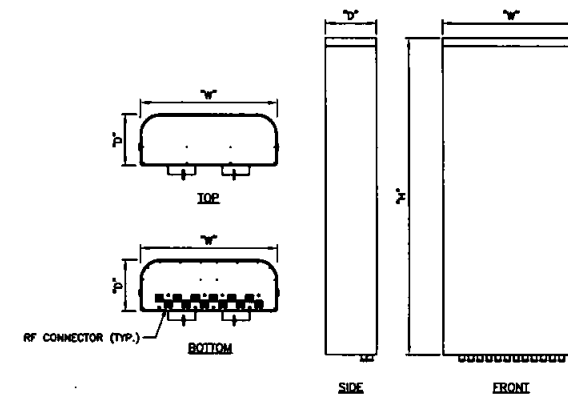
800 MHz NOTCH FILTER

PHYSICAL DIMENSIONS (INCHES): 8.1" x 8.1" x 3.1"
WEIGHT: 11 POUNDS



PANEL ANTENNA SPECIFICATIONS

MANUFACTURER: CO
MODEL: 40W-40W (CO)
DIMENSIONS (INCHES): 18.7" x 21.6" x 7.1"
WEIGHT: 5.1 LBS



RRH MOUNTING DETAIL

NO SCALE

4

REMOTE RADIO HEAD (RRH)

NO SCALE

5

PANEL ANTENNA

NO SCALE

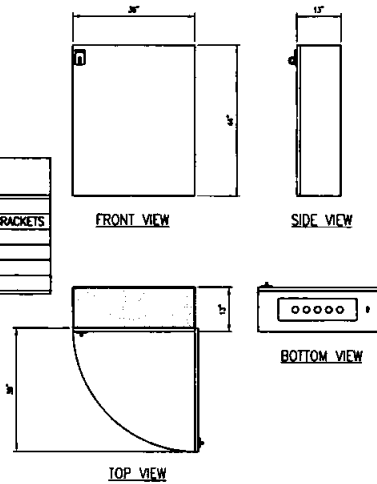
6

FIBER OPTIC & DC POWER JUNCTION BOX

NAME:
 MODEL:
 WEIGHT:
 DIMENSIONS (inches):

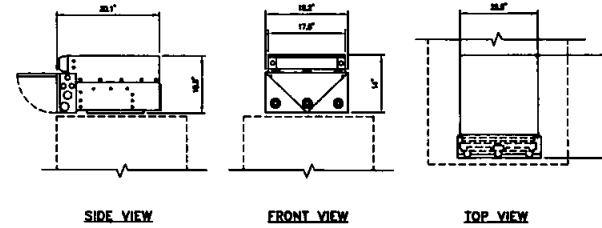
PACKAGE CONTACT:
 800 LBS
 36" x 36" x 12"

DC DIST. / FIBER MANG. BOX	CLEARANCES MM (INCHES)	COMMENTS
FRONT	914 (36)	INSTALLATION ACCESS
REAR	50 (1.97)	0" CLR W/ MOUNTING BRACKETS
RIGHT	152 (6)	INSTALLATION ACCESS
LEFT	152 (6)	INSTALLATION ACCESS
TOP	152 (6)	INSTALLATION ACCESS
BOTTOM	304 (12)	CONDUIT ROUTING



NOKIA AMOB/AIRSCALE CABINET

MANUFACTURER: NOKIA
 HEIGHT: 8U 14" (354.8mm)
 WIDTH: 19.2" (487mm)
 DEPTH: 23.8 lbs (805mm)
 WEIGHT: 50.7 lbs (23kg)



NOTE:
 TOP HAT ATTACHED TO EXISTING BITE CABINET USING MANUFACTURERS
 MOUNTING KIT (1" BRACKET EACH SIDE WITH (2) #12 BOLTS, LOCK
 WASHERS, AND PLAT BRACKET FOR BRACKET)

JUNCTION BOX

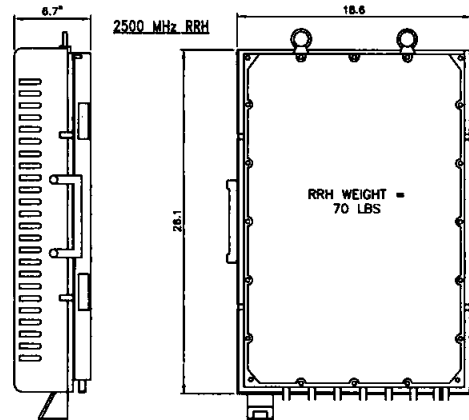
NO SCALE

3

NOKIA AMOB/AIRSCALE CABINET

NO SCALE

1

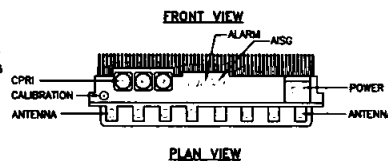


ANTENNA MAKE AND MODEL

MANUFACTURER: ALGATEL LUCENT
 MODEL: TD-RRH20-25

NOTES

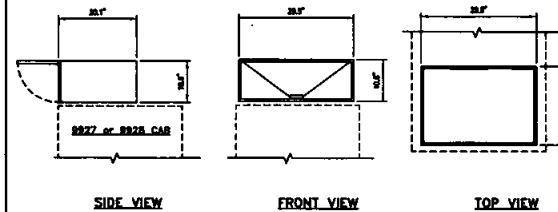
COMPLY WITH MANUFACTURERS
 INSTRUCTIONS TO ENSURE THAT ALL RRH
 RECEIVE ELECTRICAL POWER WITHIN 24
 HOURS OF BEING REMOVED FROM THE
 MANUFACTURER'S PACKAGING. DO NOT OPEN
 RRH PACKAGES IN THE RAIN.



PLAN VIEW

TOP HAT (AUXILIARY CAB EXTENSION)

MANUFACTURER: ALU
 MODEL: AUXILIARY CABINET EXTENSION OR "TOP HAT"
 WEIGHT: 38 LBS (UNLOADED) 110 LBS (FULLY LOADED)
 POWER SUPPLY: -48 VDC
 SUPPORTED TELECOM EQUIPMENT: LTE 9926 BBU, CDMA 9926 BBU, SAR AGGREGATION ROUTER



NOTE:
 TOP HAT ATTACHED TO EXISTING BITE CABINET USING MANUFACTURERS
 MOUNTING KIT (1" BRACKET EACH SIDE WITH (2) #12 BOLTS, LOCK
 WASHERS, AND PLAT BRACKET FOR BRACKET)

SIDE VIEW

FRONT VIEW

TOP VIEW

NOT USED

NO SCALE

5

REMOTE RADIO HEAD (RRH)

NO SCALE

4

TOP HAT SPECS.

NO SCALE

2

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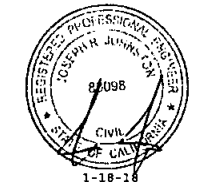
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SANTALUZ FIRE STATION

SD55XC050

**14556 LAZANJA DRIVE
 SAN DIEGO, CA 92127**

EQUIPMENT DETAILS

D-2

FIGURE 19.1 CABLE COLOR CODE

TYPICAL COAX CABLE COLOR CODING SCHEME				
SECTOR	CABLE	FIRST RING	SECOND RING	THIRD RING
1 - ALPHA	1	GRN	NO TAPE	NO TAPE
1	2	BLU	NO TAPE	NO TAPE
1	3	BRN	NO TAPE	NO TAPE
1	4	WHT	NO TAPE	NO TAPE
1	5	RED	NO TAPE	NO TAPE
1	6	SLT	NO TAPE	NO TAPE
1	7	PPL	NO TAPE	NO TAPE
1	8	ORG	NO TAPE	NO TAPE
2 - BETA	1	GRN	GRN	NO TAPE
2	2	BLU	BLU	NO TAPE
2	3	BRN	BRN	NO TAPE
2	4	WHT	WHT	NO TAPE
2	5	RED	RED	NO TAPE
2	6	SLT	SLT	NO TAPE
2	7	PPL	PPL	NO TAPE
2	8	ORG	ORG	NO TAPE
3 - GAMMA	1	GRN	GRN	GRN
3	2	BLU	BLU	BLU
3	3	BRN	BRN	BRN
3	4	WHT	WHT	WHT
3	5	RED	RED	RED
3	6	SLT	SLT	SLT
3	7	PPL	PPL	PPL
3	8	ORG	ORG	ORG

NOTES:

- ALL CABLES SHALL BE MARKED AT THE TOP AND BOTTOM WITH 2" COLORED TAPE, STENCIL TAG COLORED TAPE, OR COLORED HEAT SHRINK TUBING.
- COLORED TAPE MAY BE OBTAINED FROM GRAYBAR ELECTRONIC. UV STABILIZED TAPE OR HEAT SHRINK ARE PREFERRED.
- THE FIRST RING SHALL BE CLOSEST TO THE END OF THE CABLE, AND THERE SHALL BE A 1" SPACE BETWEEN EACH RING.
- THE CABLE COLOR CODE SHALL BE APPLIED IN ACCORDANCE TO TABLE 19-1.
- A) TABLE 19-1 ONLY SHOWS 3 SECTORS, BUT ADDITIONAL SECTORS ARE EASILY SUPPORTED BY ADDING THE APPROPRIATE NUMBER OF COLORED RINGS TO THE CABLE COLOR CODE.
- AFTER THE CABLE COLOR CODE IS APPLIED, THE FREQUENCY COLOR CODE, TABLE 19-2, MUST BE APPLIED FOR THE SPECIFIC FREQUENCY BAND IN USE ON A GIVEN LINE.
- A) 2" GAP SHALL SEPARATE THE CABLE COLOR CODE FROM THE FREQUENCY COLOR CODE.
- B) THE 2" COLOR RINGS FOR THE FREQUENCY CODE SHALL BE PLACED NEXT TO EACH OTHER WITH NO SPACES.
- WRAP 2" COLORED TAPE A MINIMUM OF (3) TIMES AROUND THE CABLE, AND KEEP THE TAPE IN THE SAME AREA AS MUCH AS POSSIBLE. THIS WILL ALLOW REMOVAL OF TAPE THAT FADES OR DISCOLORS DUE TO WEATHER.
- EXAMPLES OF THE CABLE AND FREQUENCY COLOR CODES ARE SHOWN IN FIGURE 19-1 AND FIGURE 19-2

FIGURE 19.2 COLOR CODE

2.5	FREQUENCY		INDICATOR		ID
2500 -1	YEL		WHT		GRN
2500 -2	YEL		WHT		RED
2500 -3	YEL		WHT		BRN
2500 -4	YEL		WHT		BLU
2500 -5	YEL		WHT		SLT
2500 -6	YEL		WHT		ORG
2500 -7	YEL		WHT		WHT
2500 -8	YEL		WHT		PPL

NV	FREQUENCY		INDICATOR		ID
800-1			YEL		GRN
1900-1			YEL		RED
1900-2			YEL		BRN
1900-3			YEL		BLU
1900-4			YEL		SLT
800-1			YEL		ORG
RESERVED			YEL		WHT
RESERVED			YEL		PPL

#217 (3.50V)
V12 CHANNEL
FIBER DIST. OPT.

3

OUTER JACKET

INNER JACKET

NOTE: CABLE CROSS-SECTION NOT DRAWN TO SCALE

#117 (2.97V)
INSULATED
EPOXY GLASS
ROD

SCALE

HYBRIFLEX 5/8"Ø, MULTI-MODE FIBER

SCALE 1

N.T.S.

STRUCTURE

OUTER CONDUCTOR CORRUGATED ALUMINUM (MM (IN)) 36.0 (1.42)

JACKET POLYETHYLENE, PE (MM (IN)) 36.0 (1.54)

UN-PROTECTION: INDIVIDUAL AND EXTERNAL JACKET YES

MECHANICAL PROPERTIES

WEIGHT, APPROXIMATE (KG/M (LB/FT)) 1.51 (1.08)

MINIMUM BENDING RADIUS, SINGLE BENDING (MM (IN)) 200 (8)

MINIMUM BENDING RADIUS, REPEATED BENDING (MM (IN)) 500 (20)

RECOMMENDED/MAINTAIN CLAMP SPACING (IN (FT)) 1.0/1.2 (3.25/4.0)

ELECTRICAL PROPERTIES

DC-RESISTANCE OUTER CONDUCTOR ARMOR (Ω/KM (Ω/1000FT)) 81 (1.08)

DC-RESISTANCE POWER CABLE, 0.1MM (BAND) (Ω/KM (Ω/1000FT)) 1 (84)

FIBER OPTIC PROPERTIES

VERSION MULTI-MODE

QUANTITY, FIBER COUNT 5 Pairs

CORE/CLAD (µm) 50/125

PRIMARY COATING (ACRYLATE) (µm) 245

BUFFER DIAMETER, NOMINAL (µm) 900

STANDARD PROTECTION JACKET, NOMINAL (MM (IN)) 2.0 (0.08)

STANDARDS (MEETS OR EXCEEDS) UL94-V0, UL1806, ROHS COMPLIANT

DC POWER CABLE PROPERTIES

WEIGHT, APPROXIMATE (MM (AWG)) 8.4 (8)

QUANTITY, WIRE COUNT 8 (4 Pairs)

TYPE UN PROTECTED

STRAINS 18

PRIMARY JACKET DIAMETER, NOMINAL (MM (IN)) 6.1 (0.24)

STANDARDS (MEETS OR EXCEEDS) IEC60332-1, IEC60332-2, IEC60332-3

SCALE 2

N.T.S.

FIGURE 1: ANTENNA ORIENTATION

SECTOR 1 ALPHA

SECTOR 2 BETA

SECTOR 3 GAMMA

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 1900MHz RADIO #1

ANTENNA AND CABLE COLOR CODE STANDARDS

SCALE 4

N.T.S.

HYBRIFLEX 1-1/4"Ø, MULTI-MODE FIBER

SCALE 2

N.T.S.

HYBRID	
HYBRID	COLOR
1	GRN
2	BLU
3	BRN
4	WHT
5	RED
6	SLT
7	PPL
8	ORG

2.5 Band		
2500 Radio 1	COLOR	
YEL WHT	GRN	
YEL WHT	BLU	
YEL WHT	BRN	
YEL WHT	WHT	
YEL WHT	RED	
YEL WHT	SLT	
YEL WHT	PPL	
YEL WHT	ORG	

NV CABLES					
BAND	INDICATOR	PORT	COLOR		
800-1	YEL GRN	NV-1	GRN		
1900-1	YEL RED	NV-2	BLU		
1900-2	YEL BRN	NV-3	BRN		
1900-3	YEL BLU	NV-4	WHT		
1900-4	YEL SLT	NV-5	RED		
800-2	YEL ORG	NV-6	SLT		
SPARE	YEL WHT	NV-7	PPL		
2500	YEL PPL	NV-8	ORG		

ANTENNA AND CABLE COLOR CODE STANDARDS (TYPICAL)

SCALE 4

N.T.S.

SCALE 3

N.T.S.

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SITE CADCODE

SD55XC050

SITE ADDRESS

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SAN DIEGO, CA 92127

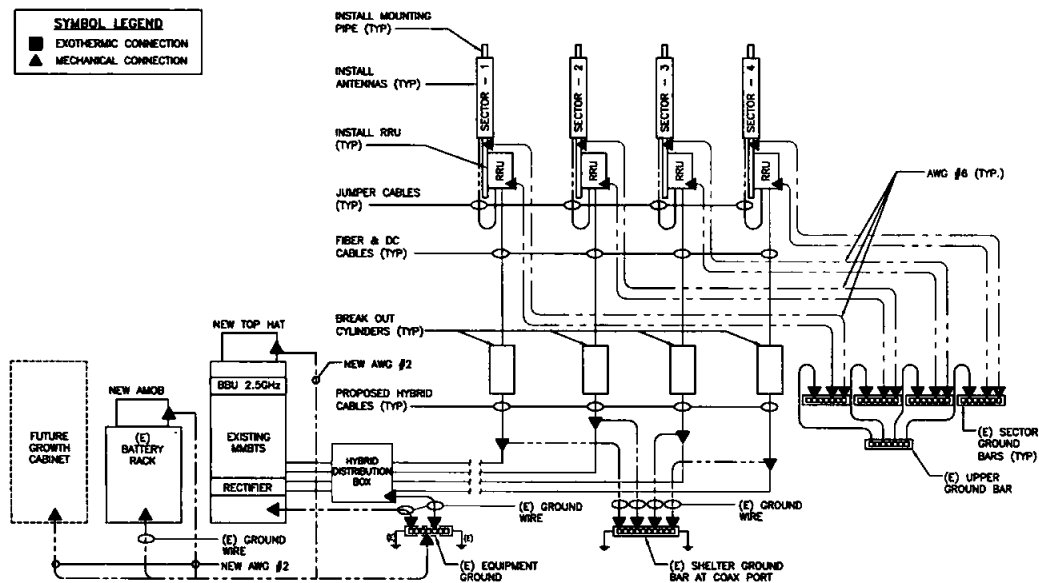
SHEET DESCRIPTION

RF DATA SHEET

SHEET NUMBER

D-5

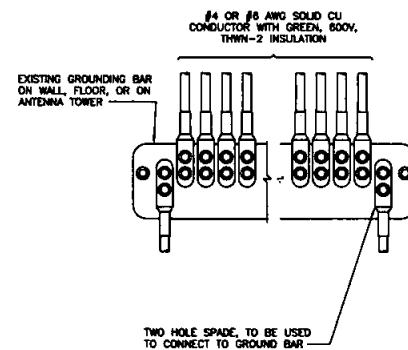
SYMBOL LEGEND
 ■ EXOTHERMIC CONNECTION
 ▲ MECHANICAL CONNECTION



GROUNDING RISER DIAGRAM (FOR REFERENCE ONLY)

NO SCALE

3



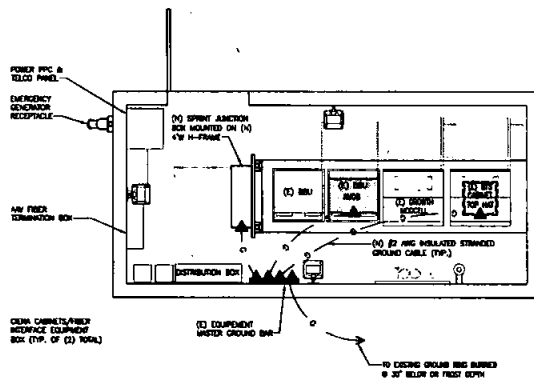
NOTES

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

INSTALLATION OF GROUNDING CONDUCTOR TO GROUNDING BAR

NO SCALE

1



EQUIPMENT GROUNDING PLAN

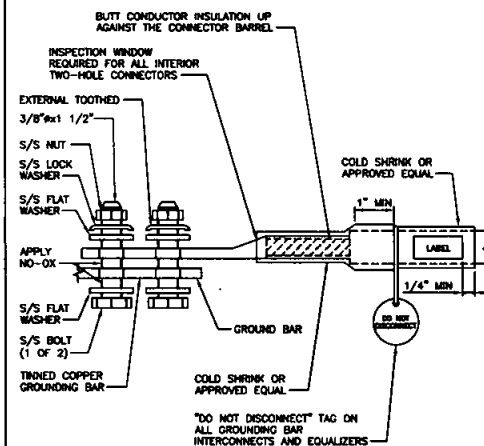
NO SCALE

5

TYPICAL ANTENNA & (E) GROUNDING PLAN

NO SCALE

4



TWO HOLE LUG

NO SCALE

2

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SITE NAME

SANTALUZ FIRE STATION

SITE CADENCE

SD55XC050

SITE ADDRESS

14556 LAZANJA DRIVE
 SAN DIEGO, CA 92127

SHEET DESCRIPTION

GRND PLAN AND DETAILS

SHEET NUMBER

E-1