

FIRST AMENDMENT TO SITE LICENSE AGREEMENT
BETWEEN CITY OF HUNTINGTON BEACH
AND CINGULAR WIRELESS., FOR A WIRELESS COMMUNICATIONS
FACILITY AT FIRE STATION 6-EDWARDS

DO NOT RECORD

THIS FIRST AMENDMENT TO THE SITE LICENSE AGREEMENT ("Agreement") is made and entered into this ____ day of _____, 2021 by and between the CITY OF HUNTINGTON BEACH, a municipal corporation of the State of California, herein referred to as "Licensor"), and T-Mobile West LLC, a Delaware limited liability company, successor in interest to Cingular Wireless.

RECITALS

A. On December 16, 2002, Pacific Bell Wireless, LLC, a Nevada limited liability company, doing business as Cingular Wireless ("Cingular"), as predecessor in interest to Licensee and Licensor entered into the Site License Agreement (the "Agreement") authorizing Cingular to install and operate communication equipment within the Clock Tower of the Licensor- owned Fire Station 6-Edwards (the "Premises"). The equipment included radio frequency transmitting and receiving antennas, batteries, utility lines, transmission lines, and supporting structures and improvements (the "Facilities"), which were specifically described on the Plans marked as No. SC- 101- 01- P3- B2, dated December 4, 2001, and attached as Exhibit B to the Agreement; and

B. Section 1.03 of the Agreement provides that the Term of the Agreement began on issuance of a building permit to construct the Facilities. The parties agree that the permit issued on January 13, 2003, and as a result, the term of the Agreement began on January 13, 2003; and

C. Section 1.03 of the Agreement provides that the Term of the Agreement is ten years, subject to Licensee's option to extend the Term for three (3) extensions of five years. To date, licensee has twice extended the Term, such that the Agreement expires on January 12, 2023, subject to Licensee's remaining option to extend the Term through January 12, 2028, provided that Licensor may elect to disallow an extension; and

D. Section 1.04 of the Agreement set the Rent at \$1,500.00 per month, subject to annual increases of four percent (4%) of the Rent for the previous year. As of the date of this First Amendment, the Rent is Three Thousand Thirty-Eight Dollars and Seventy-Two Cents (\$3,038.72) per month; and

E. Exhibit C to the Agreement allocated approximately three hundred (300) square feet of space for placement of Licensee's communications equipment on the Premises; and

F. Section 3.01(a) of the Agreement provides that Licensee "shall have the right to perform all work necessary to prepare, maintain and alter the Premises for Licensee's communications operations;" and

G. Licensee seeks to replace the existing Facilities with new Facilities, all within the existing 300 square foot area Exhibit C to the Agreement permits Licensee to occupy; and

H. Licensors and Licensee enter into this First Amendment to the Agreement to: (i) permit Licensee to install new Facilities on the Property; (ii) memorialize the start and termination dates of the Agreement; and (iii) memorialize the current Rent due on the Agreement;

Now, therefore, the Parties hereto agree as follows:

FIRST AMENDMENT TO SITE LICENSE AGREEMENT

1. The Facilities. Section 1.01(a) of the Agreement identified the Facilities to be constructed on the Property as the plans attached as Exhibit "B" to the Agreement. The Exhibit B attached to this Amendment replaces the Exhibit B to the 2002 Agreement, and describes the new Facilities that Licensee is to install on the Property pursuant to this Amendment.

2. Term. Section 1.03(a) of the Agreement is amended to read as follows:

"The term of the Agreement for the Premises ("Term") shall be for ten (10) years commencing on February 1, 2003, and ending upon January 31, 2013. Should Licensee fully and faithfully perform all terms and conditions of this Agreement, Licensee shall have the right to extend the Term of the Agreement for the Premises for three (3) additional terms ("Renewal Term") of five (5) years each. Each Renewal Term shall be on the same terms and conditions set forth herein. The Term of the Agreement shall automatically be extended for each successive Renewal Term unless Licensee notifies Licensors or Licensors notifies Licensee in writing of either party's intention not to extend at least three (3) months prior to the expiration of the original Term or Renewal Term. This Agreement shall be irrevocable by both parties during its stated term, except as otherwise specifically set forth in this Agreement."

3. Reaffirmation. Except as specifically modified herein, all other terms and conditions of the Original Agreement shall remain in full force and effect.

4. This First Amendment to the Agreement shall be made effective upon its approval by the Huntington Beach City Council.

[SIGNATURES ON SEPARATE PAGE]

LICENSEE

T-Mobile West LLC

A Delaware limited liability company

By: Lowell Handy

Its: Market Director

Print Name: Lowell Handy

Date: 10/18/2021

Erica Mateen Digitally signed by Erica Mateen
Date: 2021.10.06 08:45:14 -05'00'

T-Mobile legal approval as to form



LICENSOR:

**CITY OF HUNTINGTON BEACH, a municipal
corporation of the State of California**

Mayor

Date: _____

Robin Estanislau, City Clerk

REVIEWED AND APPROVED:

City Manager, Oliver Chi

APPROVED AS TO FORM

Michael E. Gates
Michael E. Gates, City Attorney

INITIATED AND APPROVED:

Sean Crumby
Sean Crumby, Director of Public Works

Exhibit B

CUP08-010



SITE NUMBER: LA02543A
SITE NAME: SC101 Huntington Beach Fi
ADDRESS: 18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648
JURISDICTION: CITY OF HUNTINGTON BEACH
PROJECT: ANCHOR

PROJECT CONTACTS

APPLICANT:
T-MOBILE USA
10509 VISTA SORRENTO PKWY STE 306
SAN DIEGO, CA 92121

PROPERTY OWNER:
CITY OF HUNTINGTON BEACH
2009 MAIN STREET
HUNTINGTON BEACH, CA 92648

ZONING/PERMITTING AGENT:
MD7
10580 WEST OCEAN AIR DRIVE
SUITE 300
SAN DIEGO, CA 92130
CONTACT: JUSTIN CAUSEY
PHONE: (658) 291-1869
EMAIL: jcausey@md7.com

SITE ACQUISITION AGENT:
MD7
10580 WEST OCEAN AIR DRIVE
SUITE 300
SAN DIEGO, CA 92130
CONTACT: JOHN STURGES
EMAIL: sturgesj@md7.com
PHONE: (619) 947-0762

CONSTRUCTION MANAGER:
T-MOBILE USA
10509 VISTA SORRENTO PKWY STE 306
SAN DIEGO, CA 92121
CONTACT: MIKE SEBESTA
PHONE: (760) 644-1027
EMAIL: michael.sebesta1@T-Mobile.com

RF ENGINEER:
T-MOBILE USA
10509 VISTA SORRENTO PKWY STE 306
SAN DIEGO, CA 92121
CONTACT: PEDRO ABE
EMAIL: pedro.abe@T-Mobile.com

ENGINEER:
TELECOMMUNICATIONS ENGINEERING
& ARCHITECTURE MANAGEMENT
8213 SNOW HILL RD
COLTVEAH, TN 37063
PHONE: (423) 680-6541
EMAIL: ChadRobertson@telecom.team

EMERGENCY CONTACT PERSON:
NETWORK OPERATIONS CENTER
(NOC)
PHONE: (888) 662-4662 or (425) 396-4145

PROJECT INFORMATION

SITE NAME: SC101 HUNTINGTON BEACH FI
SITE NUMBER: LA02543A
SITE ADDRESS: 18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648
JURISDICTION: CITY OF HUNTINGTON BEACH
COUNTY: COUNTY OF ORANGE
LATITUDE: 33.8926060
LONGITUDE: -118.01540200
APN: 110-511-13
CONSTRUCTION TYPE: V-NON RATED SPRINKLERED
ZONING CLASSIFICATION: N/A
PROPOSED USE: UNMANNED TELECOMMUNICATION FACILITY
LEGAL DESCRIPTION: REFER TO SHEET 1/7-3.0

DRIVING DIRECTIONS

DIRECTIONS FROM 10509 VISTA SORRENTO PARKWAY, SAN DIEGO, CA 92121:

HEAD SOUTHEAST TOWARD VISTA SORRENTO PKWY
TURN RIGHT TOWARD VISTA SORRENTO PKWY
TURN LEFT ONTO VISTA SORRENTO PKWY
USE THE RIGHT 2 LANES TO TURN RIGHT
TO MERGE ONTO I-805 N
MERGE ONTO I-805 N
MERGE ONTO I-5 N
KEEP LEFT TO STAY ON I-5 N
KEEP LEFT TO STAY ON I-5 N
USE THE RIGHT 3 LANES TO TAKE EXIT 85A
FOR CA-73 N TOWARD LONG BEACH
CONTINUE ONTO CA-73 N
USE THE LEFT 3 LANES TO TAKE EXIT 18A
TO MERGE ONTO I-405 N TOWARD LONG BEACH

TAKE THE WARNER AVE W EXIT TOWARD MAGNOLIA ST
KEEP RIGHT AT THE FORK AND MERGE
ONTO WARNER AVE
MERGE ONTO WARNER AVE
TURN LEFT ONTO EDWARDS ST
DESTINATION WILL BE ON THE RIGHT:
18591 EDWARDS ST,
HUNTINGTON BEACH, CA92648

SCOPE OF WORK

T-MOBILE PROPOSES TO:

- REMOVE (6) EXISTING T-MOBILE PANEL ANTENNAS
- REMOVE (2) EXISTING T-MOBILE RADIOS (RADIO 4415 B25)
- INSTALL (8) NEW T-MOBILE PANEL ANTENNAS: FV445A-45A V1 ANTENNA ON SECTOR ALPHA TO BE INSTALLED ON NEW PIPE WITH 7'-0" CLEARANCE FROM AIR649 B41 ANTENNA ON SAME SECTOR.
- INSTALL (2) NEW T-MOBILE RADIOS (RADIO 4424 B25)
- INSTALL (2) NEW T-MOBILE RADIOS (RADIO 4415 B66A)
- INSTALL 1'-0" FRP EXTENSION ON SECTOR ALPHA
- INSTALL (2) NEW 6X12 HCS CABLE
- INSTALL (1) NEW B6600 INSIDE PROPOSED EQUIPMENT CABINET
- INSTALL (1) NEW B6648 INSIDE PROPOSED EQUIPMENT CABINET
- INSTALL (1) NEW 1600 ROUTER
- INSTALL (1) NEW 6160 EQUIPMENT CABINET
- INSTALL (1) NEW 6160 POWER CABINET
- INSTALL 150 AMP BREAKER FOR 6160 CABINET
- REMOVE ALL UNUSED CABLES
- NO NEW BATTERIES TO BE ADDED
- PROJECT VALUATION: \$40,000

SPECIAL NOTES

1. ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT T-MOBILE CONSTRUCTION INSTALLATION GUIDE.
2. EXISTING CONDITIONS WILL BE VERIFIED IN FIELD. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, A REPAIR PERMIT WILL BE OBTAINED & CONTRACTOR SHALL NOTIFY ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY.
3. CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.
4. THESE DRAWINGS ARE FULL SIZE & SCALEABLE ON 22"x34" SHEET SIZE & ARE NOT REDUCED IN SIZE.
5. STATEMENT THAT COMPLIANCE WITH THE ENERGY CODE IS NOT REQUIRED. -SCORE OF WORK DOES NOT INVOLVE MODIFICATIONS TO EXTERIOR ENVELOPE OF BUILDING, HVAC SYSTEMS OR ELECTRICAL LIGHTING.

DRAWING INDEX

SHEET	DESCRIPTION
T-1.0	TITLE SHEET
T-2.0	GENERAL NOTES
T-2.1	GENERAL NOTES
T-3.0	LEGAL DESCRIPTION, REFERENCED DOCUMENTS, LEGEND, ABBREVIATIONS & SIGNAGE
A-1.0	OVERALL SITE PLAN
A-2.0	PROPOSED ENLARGED SITE PLAN
A-3.0	EXISTING ANTENNA PLAN & SCHEDULE
A-3.1	PROPOSED ANTENNA PLAN & SCHEDULE
A-3.2	ANTENNA & RADIO MOUNTING DETAILS
A-3.3	EXISTING & PROPOSED EQUIPMENT PLANS, & BATTERY CALCULATIONS
A-4.0	EXISTING & PROPOSED NORTH ELEVATIONS
A-4.1	EXISTING & PROPOSED WEST ELEVATIONS
A-4.2	EXISTING & PROPOSED SOUTH ELEVATIONS
A-5.0	EQUIPMENT DETAILS & SPECIFICATIONS
A-5.1	EQUIPMENT DETAILS & SPECIFICATIONS
G-1.0	SCHEMATIC GROUNDING PLANS, NOTES & DETAILS
RF-1.0	EQUIPMENT CONFIGURATION

NOT FOR CONSTRUCTION UNLESS APPROVED BY JURISDICTION

GENERAL NOTES

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

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.



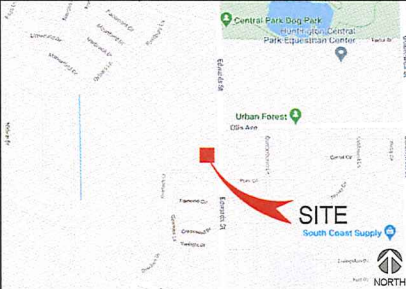
Know what's below.
Call before you dig.

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN CALIFORNIA (SOUTH), CALL DIG ALERT

TOLL FREE: 1-800-227-2600 OR
www.digalert.org

CALIFORNIA STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

VICINITY MAP



LOCATION MAP



CODE COMPLIANCE

- 2019 CALIFORNIA ENERGY CODE
- 2019 CALIFORNIA BUILDING CODE
- 2019 CALIFORNIA ELECTRICAL CODE
- 2019 CALIFORNIA FIRE CODE
- 2019 CALIFORNIA MECHANICAL CODE
- 2019 CALIFORNIA PLUMBING CODE

APPROVALS

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

T-MOBILE PROJECT MANAGER: _____ DATE: _____
T-MOBILE CONSTRUCTION MANAGER: _____ DATE: _____
T-MOBILE RF ENGINEER: _____ DATE: _____
T-MOBILE POPS: _____ DATE: _____
SITE ACQUISITION: _____ DATE: _____
PROPERTY OWNER: _____ DATE: _____
ZONING: _____ DATE: _____



10509 VISTA SORRENTO PKWY STE 306
SAN DIEGO, CA 92121
T-MOBILE.COM

MD7

MD7, LLC
10580 West Ocean Air Dr., Suite 300
San Diego, CA 92130
858-954-7459



I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME AND UNDER MY DIRECT SUPERVISION AND THAT I AM DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA

SITE INFORMATION

ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1.0

GENERAL NOTES:

- A. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. THIS SET OF PLANS IS INTENDED TO BE USED FOR DIAGNOSTIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT AND LABOR DEEMED NECESSARY TO COMPLETE INSTALLATIONS AS DESCRIBED HEREIN.
- B. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PROJECT THROUGH INSPECTION OF THE JOB SITE, DRAWINGS AND SPECIFICATIONS, SO AS TO THOROUGHLY UNDERSTAND THE WORK, ANY AND ALL DISCREPANCIES AND OMISSIONS SHALL BE REPORTED AND CLARIFICATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO WORK BEING DONE. ANY WORK THAT PROCEEDS OTHERWISE SHALL BE, IF INCORRECTLY PERFORMED, REPLACED OR REPAIRED WITH THE COST FOR SAME BEING BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS IN FIELD. IF DIMENSIONAL ERROR OCCURS OR CONDITIONS NOT COVERED IN THE DRAWINGS ARE ENCOUNTERED, CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE COMMENCING THAT PORTION OF THE WORK.
- C. CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
- D. CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- E. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/ VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- F. ALL WORK PERFORMED ON PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
- G. THE STRUCTURAL COMPONENTS OF THIS PROJECT ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
- H. DRAWINGS ASSUME THE EXISTING BUILDING TO BE IN COMPLIANCE WITH CODE REQUIREMENTS. ANY VIOLATIONS OF CODES IN EXISTING BUILDING DISCOVERED DURING THE COURSE OF CONSTRUCTION WILL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE BUILDING OWNER OR THEIR REPRESENTATIVES.
- I. CONTRACTOR SHALL PROVIDE AT THE PROJECT SITE A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- J. DETAILS ARE USUALLY KEYED ONCE ON THE DRAWINGS AND ARE TYPICAL FOR SIMILAR CONDITIONS THROUGHOUT. UNLESS OTHERWISE NOTED, DETAILS INCLUDED HEREIN ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS OR SITUATIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE SCOPE OF WORK.
- K. DIMENSIONS ARE FROM FINISH FACE TO FACE, (UNLESS NOTED OTHERWISE)
- L. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAYING, CURBING, ETC. DURING CONSTRUCTION AND UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY OCCUR DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY. IN ADDITION THE CONTRACTOR SHALL FOLLOW ALL SAFETY REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION OVER HIS WORK.
- M. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE IN A CLEAN AND SAFE CONDITION, INCLUDING PROPER REMOVAL OF WASTE MATERIAL. WASTE MATERIAL SHALL NOT BE STORED WITHIN OR NEAR THE BUILDING. DUMPSTERS PROVIDED FOR THE DISPOSAL OF WASTE MATERIAL SHALL BE REMOVED AWAY FROM THE BUILDING BUT MAY BE STORED ON SITE DAILY. PROTECT EXISTING ASPHALT PARKING SURFACE AND REPAIR AT NO EXPENSE TO THE BUILDING OWNER ANY DAMAGE CAUSED BY THE USE OF THE DUMPSTERS.
- N. THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- O. SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT SPECIAL INSPECTOR, AS REQUIRED, PER SECTION 1704 OF THE INTERNATIONAL BUILDING CODE (IBC).
- P. CONTRACTOR SHALL GUARANTEE IN WRITING ALL LABOR, MATERIALS, AND WORKMANSHIP INSTALLED BY HIM FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER DATE OF ACCEPTANCE OF THE WORK BY THE OWNER EXCEPT AS MODIFIED HEREIN OR ON OTHER DRAWINGS. SHOULD DEFECTS OCCUR, ALL WORK SHALL BE REPLACED OR PROPERLY REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- Q. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL COMBUSTIBLE FLUIDS, INCLUDING PAINTS, PRIMERS, SEALERS, SOLVENTS AND ADHESIVES, COMPLY AND ARE BEING USED IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S WRITTEN INSTRUCTIONS. CONTRACTOR SHALL PROVIDE STORAGE FOR SUCH MATERIALS AWAY FROM THE BUILDING. USE OF THE BUILDING FOR SUCH STORAGE IS PROHIBITED.
- R. CONTRACTOR TO HAVE ALL EASEMENTS AND UNDER GROUND UTILITIES LOCATED AND MARKED PRIOR TO COMMENCING SITE WORK.
- S. ELECTRICAL, MECHANICAL AND PLUMBING PERMITS SHALL BE THE RESPONSIBILITY OF THEIR RESPECTIVE SUB-CONTRACTORS.
- T. OWNER SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS PER LOCAL FIRE MARSHALL. CONTRACTOR TO INSTALL.
- U. CONTRACTOR SHALL COORDINATE ALL WORK WITH PROPERTY OWNER REPRESENTATIVE INCLUDING BUT NOT LIMITED TO SCHEDULE, PROCEDURES, SECURITY, AND CONSTRUCTING LOADING AND UNLOADING.
- V. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE JURISDICTIONS CURRENT ADOPTED VERSION OF INTERNATIONAL BUILDING CODE (IBC), (IPC), (IMC) AND NEC.
- W. SEAL ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLY WITH U.L. LISTED OR F.M. APPROVED MATERIALS TO MAINTAIN RATING INTEGRITY OF ASSEMBLY.

- X. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS WILL BE DONE AFTER THE SITE HAS BEEN AWARDED THE FINAL INSPECTION. TWO COPIES OF REDLINED DRAWINGS WILL BE PROVIDED TO CLIENT / PROJECT MANAGER.

ELECTRICAL (UNLESS NOTED OTHERWISE):

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING, FILING, AND FEES IN CONJUNCTION WITH THE PROJECT.
2. ALL LABOR AND MATERIAL SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL CODES, RULES, REGULATIONS AND STANDARDS.
3. ALL EQUIPMENT, WIRING, AND MATERIALS MUST HAVE A UL LABEL.
4. ALL WORK SHALL BE DONE BY QUALIFIED AND EXPERIENCED JOURNEYMEN AND PERFORMED IN A WORKMANLIKE MANNER AND SHALL PROCEED IN AN ORDERLY MANNER SO AS NOT TO HOLD UP THE PROGRESS OF THE PROJECT.
5. THOROUGHLY TEST ALL LINES, FEEDERS, EQUIPMENT, AND DEVICES WITH MAXIMUM LOADS TO ASSURE PROPER OPERATION.
6. CONDUITS AND FITTINGS FOR OUTSIDE APPLICATIONS SHALL BE RIGID OR NON-METALLIC UNLESS OTHERWISE NOTED.
7. ALL WIRES SHALL BE COPPER; USE OF ALUMINUM CONDUCTORS WILL NOT BE PERMITTED. SEE ELECTRICAL PLANS FOR SIZING AND LOCATIONS. USE PROPER SIZE CONNECTIONS PER LOCAL, STATE, AND NATIONAL CODES.
8. CONDUCTOR LENGTHS SHALL BE CONTINUOUS FROM TERMINATION TO TERMINATION WITHOUT SPLICES.
9. PROVIDE PULL BOXES WHERE SHOWN AND WHERE REQUIRED BY CODES AND UTILITY COMPANIES.
10. ALL WIRES SHALL BE TAGGED AT ALL PULL BOXES, J-BOXES, EQUIPMENT BOXES, AND CABINETS WITH APPROVED PLASTIC TAGS.
11. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC, ALL SWEEPS OR BENDS, AND ABOVE-GROUND CONDUITS SHALL BE RIGID GALVANIZED STEEL OR PVC SCHEDULE 80. ALL CONDUITS NOT TERMINATING INTO A CLOSED AREA MUST BE SEALED TO PREVENT ENTRY OF ANY MOISTURE OR FOREIGN OBJECTS. ALL CONDUIT RISERS TO INCLUDE SLIP TYPE EXPANSION JOINT.

GROUNDING (UNLESS NOTED OTHERWISE):

1. THE GROUNDING SYSTEM CONNECTIONS SHALL BE MADE WITH EXOTHERMIC WELDS AND/OR MECHANICAL TWO-LOO COMPRESSION CONNECTORS AS INDICATED ON PLANS. USE ONLY STAINLESS STEEL SCREWS, BOLTS WASHERS, AND NUTS FOR FASTENING.
2. CLEAN SURFACES THOROUGHLY BEFORE APPLYING GROUND LUGS OR CLAMPS. IF SURFACE IS COATED, THE COATING MUST BE REMOVED DOWN TO THE BARE METAL. AFTER THE COATING HAS BEEN REMOVED, APPLY A NON-CORROSIVE APPROVED COMPOUND TO THE CLEANED SURFACE AND INSTALL LUGS OR CLAMPS. WHERE GALVANIZING IS REMOVED FROM METAL, IT SHALL BE PAINTED OR TOUCHED UP WITH COLD GALVANIZING PAINT SUCH AS GLAVMOX OR EQUAL.
3. ALL CLAMPS, SLEEVES, AND SUPPORTS USED TO SUPPORT OR CHANNEL THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUITS SHALL BE PVC TYPE NON-CONDUCTIVE. DO NOT USE METAL BRACKETS OR SUPPORTS THAT WOULD FORM A COMPLETE RING AROUND ANY GROUNDING CONDUCTOR.
4. ALL GROUNDING CONNECTIONS SHALL BE COATED WITH T&B KOPR SHIELD ANTI-CORROSIVE AGENT. NO SUBSTITUTIONS ARE PERMITTED. VERIFY THE PRODUCT WITH TELECOMMUNICATION CLIENT PRIOR TO USAGE.

PRODUCTS (UNLESS NOTED OTHERWISE):

1. GENERAL REQUIREMENTS: ALL MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND STANDARD PRODUCTS OF THE VARIOUS MANUFACTURERS, WITH ALL MATERIALS AND EQUIPMENT TO BE NEW, CLEAN, UNDAMAGED, AND FREE OF DEFECTS AND CORROSION.
2. ACCEPTABLE PRODUCTS: THE PRODUCT OF A SPECIFIED OR APPROVED MANUFACTURER WILL BE ACCEPTABLE ONLY WHEN THE PRODUCT COMPLIES WITH OR IS MODIFIED AS NECESSARY TO COMPLY WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. COMMON ITEMS: WHERE MORE THAN ONE OF ANY SPECIFIC ITEM IS REQUIRED, ALL SHALL BE OF THE SAME TYPE AND MANUFACTURER.
4. UL LISTING: ALL MATERIALS AND EQUIPMENT SHALL BE UNDERWRITERS LABORATORIES (UL) LISTED AND LABELED, WHERE UL STANDARDS AND LISTINGS EXIST FOR SUCH MATERIALS OR EQUIPMENT.

EPOXY AND EXPANSION ANCHORS

1. EPOXY OR EXPANSION ANCHORS SHALL NOT BE USED EXCEPT WHERE SPECIFICALLY SHOWN ON THE PLANS OR WHEN APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER.
2. DRILLED HOLES SHALL BE PREPARED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE CURRENT ICC REPORT.
3. SPECIAL INSPECTION SHALL BE DONE IN ACCORDANCE WITH BUILDING CODE AND THE SPECIFIC INSPECTION REQUIREMENTS SET FORTH IN THE CURRENT ICC REPORT.
4. ANCHOR RODS USED FOR EPOXY ANCHORS SHALL BE THE TYPE SPECIFIED IN THE REFERENCED ICC REPORT.
5. THE ANCHOR SIZE AND EMBEDMENT SHALL BE AS INDICATED ON THE PLANS.
6. WHERE PERMITTED, EPOXY ANCHORING SHALL BE COMPLETED WITH THE FOLLOWING ALLOWED PRODUCTS(S): HILTI RE-500 SD (ICCF ESR-2322, LARR-25700) - CONCRETE ONLY
HILTI HIT-HY 150 (ICCF ESR-5193, LARR-25652M) - MASONRY WALL ONLY.
HILTI HIT-HY 20 (ICCF ESR-4815, LARR-24564) - BRICK WALL ONLY.
7. WHERE PERMITTED, THE FOLLOWING EXPANSION ANCHORS MAY BE USED:
HILTI KWIK BOLT TZ (ICCF ESR-1917, LARR-25701) - CONCRETE ONLY.

SIMPSON STONG-BOLT (ICCF ESR-1771, LARR-25705) - CONCRETE ONLY.
HILTI KWIK BOLT 3 (ICCF ESR-1385, LARR-25577) GROUT/FILLED MASONRY ONLY.
SIMPSON WEDGE-ALL (ICCF ESR-1396, LARR-24632) - GROUT FILLED MASONRY ONLY.

FLASHING AND SHEET METAL

1. ALL FLASHING, COUNTER FLASHING, COPING AND ALL OTHER SHEET METAL SHALL BE OF NOT LESS THAN NO. 20 U.S. GAUGE CORROSION-RESISTANT METAL UNL.O. ALL METAL MUST BE GALVANIZED AFTER FABRICATION.
2. FLASH AND COUNTER FLASH AT ALL ROOF TO WALL CONDITIONS. G.I. FLASH AND CAULK WOOD BEAMS AND OUTLOOKERS PROJECTING THROUGH EXTERIOR WALLS OR ROOF SURFACES.
3. FLASH ALL EXTERIOR OPENINGS WITH APPROVED WATERPROOFING, WHICH CONFORMS TO THE STANDARDS OF LOCAL AND STATE CODES.
4. ALL CONNECTIONS TO BUILDING WALLS OR ROOFS MUST BE FLASHED AND MADE WATERTIGHT USING LIKE MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR SITE-SPECIFIC CONDITIONS FROM ARCHITECT/ENGINEER, IF NECESSARY, BEFORE PROCEEDING. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGNOSTIC OUTLINE ONLY, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

1. ALL MATERIALS AND OR WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST REVISED EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION, 16th EDITION, WHICH INCLUDES SPECIFICATION FOR STRUCTURAL STEEL, BUILDINGS, CODE OF STANDARD PRACTICE AND AISC STRUCTURAL WELDING CODE. IDENTIFY AND MARK STEEL PER CBC 2203.
2. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER/ ARCHITECT PRIOR TO FABRICATION.
3. GROUTING OF COLUMN BASE PLATES: BASE PLATES SHALL BE DRYPACKED OR GROUTED WITH NON-SHRINK, NON-FERROUS GROUT. MINIMUM COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS. ALL SURFACES SHALL BE PROPERLY CLEANED OF FOREIGN MATERIAL PRIOR TO GROUTING.
4. ALL EXPOSED WELDS SHALL BE FILLED AND GROUND SMOOTH WHERE METAL COULD COME IN CONTACT WITH THE PUBLIC.
5. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THRU STRUCTURAL STEEL MEMBERS. BOLT HOLES SHALL CONFORM TO AISC SPECIFICATION, AND SHALL BE STANDARD HOLES UNLESS OTHERWISE NOTED. NO CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT PRIOR CONSENT OF THIS ENGINEER. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.
6. WELDING: CONFORM TO AISC D1.1. WELDERS SHALL BE CERTIFIED
7. BOLTING: ASTM A307 BOLTS SHALL BE INSTALLED "SNUG TIGHT" PER AISC SECTION RCSC 8(C). ASTM A325 BOLTS SHALL CONFORM TO RCSC SECTION 8 (D).
8. FABRICATION: CONFORM TO AISC SPECIFICATION SEC M2 "FABRICATION" AND AISC CODE SEC 6 "FABRICATION AND DELIVERY" PERFORM WORK ON PREMISES OF A FABRICATOR APPROVED BY THE BUILDING OFFICIAL.
9. GALVANIZING: ALL EXPOSED STEEL OUTSIDE THE BUILDING ENVELOPE SHALL BE HOT-DIPPED GALVANIZED. APPLY FIELD TOUCH-UPS PER ASTM A153.
10. ALL FRAMING CONNECTORS SUCH AS CONCRETE ANCHORS, HOLD-DOWNS, POST BASES, FRAMING CAPS, HANGER AND OTHER MISCELLANEOUS STRUCTURAL METALS SHALL BE AS MANUFACTURED BY SIMPSON STRONG IRON CO. OR APPROVED EQUAL.
11. ALL STRUCTURAL STEEL EXPOSED TO EARTH SHALL HAVE 3" CONCRETE COVER.
12. MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

ANCHOR BOLTS/ RODS:	ASTM F1554, GRADE 36
BARs & PLATES:	ASTM A36
BOLTS IN WOOD:	ASTM A307
BOLTS - HIGH STRENGTH:	ASTM A325SSC OR A325N
C-, M-, AND ANGLE SHAPES:	ASTM A36
DEFORMED WELDED WIRE FABRIC:	ASTM A497
GROUT:	EMBECCO OR EQUIVALENT
OTHER STRUCTURAL SHAPES:	ASTM A36
REINFORCING BARS (WELDED):	ASTM A706, GRADE 60, DEFORMED BARS
REINFORCING BARS (REGULAR):	ASTM A615, GRADE 60, DEFORMED BARS
SMOOTH WELDED WIRE FABRIC:	ASTM A185
STEEL GRATING:	ANSI/AIAAM MBG 531-00
STEEL PIPE:	ASTM A53, GRADE B
TIE WIRE:	16.5 GAGE OR HEAVIER, BLACK ANNEALED
TUBE STEEL & PIPE COLUMNS:	ASTM A500, GRADE B
W- SHAPES:	ASTM A992, GRADE 50
WELDING ELECTRODES:	E70XX FOR STRUCTURAL STEEL E80XX FOR REINFORCING BARS E60XX FOR LIGHT GAUGE STEEL AND METAL DECK



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REVISIONS			
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A	01/09/2021	90% CDs	EDZ
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"I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME AND UNDER MY DIRECT SUPERVISION AND THAT I AM DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA"

SITE INFORMATION

ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

T-2.0

FRAMING:

1. ALL LUMBER SHALL BE GRADE MARKED DOUGLAS FIR-LARCH AND SHALL HAVE THE FOLLOWING MINIMUM GRADES:
- | | |
|---------------------------|----|
| JOISTS AND RAFTERS | #1 |
| BEAMS AND STRINGERS | #1 |
| PLATES | #2 |
| STUDS (2X4, 2X6) | #1 |
| POSTS, COLUMNS AND TIMBER | #1 |
2. ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS. WHERE POSSIBLE, ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWPA STD. M4).
3. CUTTING OR NOTCHING OF WOOD STUDS OR PLATES SHALL NOT EXCEED 25% OF THE STUD/PLATE WIDTH AT EXTERIOR OR BEARING WALLS AND SHALL NOT EXCEED 40% OF THE STUD/PLATE WIDTH IN NONBEARING PARTITIONS. BORED HOLE DIAMETERS ARE LIMITED TO 40% OF THE STUD WIDTH IN ANY STUD AND MAY BE 50% IN NONBEARING PARTITIONS OR WHEN THE BORED STUD IS DOUBLED.
4. DO NOT NOTCH JOISTS, RAFTERS, OR BEAMS EXCEPT WHERE SHOWN ON THE DETAILS. BORED HOLES THROUGH JOISTS SHALL NOT EXCEED 1/3 OF MEMBER DEPTH AND BE LOCATED AT LEAST 2" FROM THE TOP AND BOTTOM OF THE MEMBER.
5. ALL BLOCKING AND BRIDGING SHALL BE PROVIDED AS REQUIRED PER GOVERNING CODE OR STANDARD OF PRACTICE.
6. ALL JOIST, RAFTER & MISC. FRAMING SHALL HAVE FULL-DEPTH (OR METAL) BRIDGING AT ALL SUPPORTS, MIDSPAN AND AT A MAXIMUM SPACING OF 8'-0" O.C. IN BETWEEN UNLESS NOTED OTHERWISE.
7. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS THAT ARE PARALLEL TO JOISTS. USE 2-16D NAILS AT 16" O.C. TO NAIL DOUBLE JOISTS TOGETHER.
8. THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOADBEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOADBEARING FRAMING SHALL BE LIMITED TO LESS THAN 1/2 OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" (NOMINAL) AND THICKER LUMBER SHALL BE LIMITED TO 1/2 OF THE NARROW FACE DIMENSION.
9. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE WASHERS BETWEEN BOLT HEADS OR NUTS AND WOOD. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
10. ALL BOLTS SHALL BE RE-TIGHTENED PRIOR TO APPLICATION OF PLASTER, PLYWOOD, ETC. AND BEFORE CLOSING IN COMPLETION OF THE JOB.
11. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DOWN ANCHORS AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY" OR APPROVED EQUAL. INSTALL ALL ACCESSORIES PER THE MANUFACTURER'S REQUIREMENTS. ALL STEEL SHALL HAVE A MINIMUM THICKNESS OF 0.04 INCHES (PER ASTM A446, GRADE A) AND BE GALVANIZED (COATING G60).
12. STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A-36 SPECIFICATIONS AND BE 1/4" THICK UNLESS OTHERWISE INDICATED.
13. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE THAT ARE EXPOSED OR IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIP GALVANIZED.
14. BOLTS IN WOOD SHALL BE A MINIMUM OF 7 BOLT DIAMETERS FROM THE ENDS AND 4 BOLT DIAMETERS FROM THE EDGES.
15. ALL SILL BOLTS SHALL BE PLACED STARTING 9" FROM THE ENDS OF A BOARD OR FROM A NOTCH AND SPACED AT INTERVALS AS NOTED ON THE PLANS.
16. ALL SILL PLATE ANCHOR BOLTS AND HOLD-DOWN CONNECTOR BOLTS AT ALL PLYWOOD SHEAR PANELS SHALL HAVE THE FOLLOWING PLATE WASHERS.
- | | |
|-----------|-------------------------------|
| BOLT SIZE | PLATE WASHER SIZE (ASTM A-36) |
| 5/8" | 0.225" X 3" X 3" |
| 3/4" | 5/16" X 3" X 3" |
| 7/8" | 5/16" X 3" X 3" |
| 1" | 3/8" X 3-1/2" X 3-1/2" |
17. TOP PLATES FOR ALL STUD WALLS SHALL BE 2-X. MINIMUM TOP PLATE LAP SHALL BE 48" WITH 16d NAILS AT 4" O.C. EACH SIDE OF SPLICE U.N.O. SPLICES IN UPPER AND LOWER PLATES SHALL BE STAGGERED 10" MINIMUM.
18. ALL WOOD STUD WALLS SHALL HAVE 2X4 STUDS AT 16" O.C. WHEN HEIGHT BETWEEN LATERAL SUPPORTS IS LESS THAN 10'-0". WHEN HEIGHT BETWEEN LATERAL SUPPORTS MORE THAN 10'-0", USE 2X6 STUDS AT 16" O.C. WITH FULL DEPTH BLOCKING AT NOT MORE THAN 8' VERTICAL INTERVAL.
19. ALL NAILS SHALL BE COMMON WIRE NAILS U.N.O. SEE FRAMING PLANS OR DETAILS FOR NAIL SIZES AND SPACINGS. NAILS THAT ARE NOT DETAILED OR NOTED SHALL BE IN ACCORDANCE WITH IBC TABLE 2304.5.1. FASTENING SCHEDULE. HOLES FOR NAILS SHALL BE PREDRILLED AT A SMALLER DIAMETER THAN THE NAIL WHERE NECESSARY TO PREVENT SPLITTING.
20. LAG BOLTS SHALL HAVE LEAD HOLES BORED AS FOLLOWS:
- | | |
|------------------|-----------------------------------|
| SHANK PORTION | SAME DIAMETER AND LENGTH AS SHANK |
| THREADED PORTION | 0.6-0.75 OF DIAMETER OF THREAD |

GOVERNING CODE: 2019 CALIFORNIA BUILDING CODE:

1. NEW DEAD LOADS (EQUIPMENT)
CABINETS = VARIES, SEE "REVISED 90% CD" SET, "REV. 1," DATED 11/16/2018 BY MD7.
2. MINIMUM LIVE LOADS
NOT APPLICABLE = NO LIVE LOAD
3. SNOW LOADS
NOT APPLICABLE = NO SNOW LOAD
4. WIND LOADS
A. BASIC WIND SPEED = 95 MPH
B. WIND LOAD IMPORTANCE FACTOR, I_w = 1.0
C. WIND EXPOSURE CATEGORY 'C' FOR MAIN WINDFORCE-RESISTING SYSTEM
D. WIND EXPOSURE CATEGORY 'C' FOR COMPONENTS AND CLADDING
E. ENCLOSURE WIND DESIGN PRESSURES (ASCE 7-10 CHAPTER 30)
GUST-EFFECT FACTOR, G = 0.85
FORCE COEFFICIENT, C_F = VARIES
F. EQUIPMENT / CABINETS WIND DESIGN PRESSURES (ASCE 7-10 CHAPTER 30)
GUST-EFFECT FACTOR, G = 0.85
FORCE COEFFICIENT, C_F = 1.4
G. PARAPET WIND DESIGN PRESSURES (ASCE 7-10 CHAPTER 30)
COMBINED NET PRESSURE COEFFICIENT, G_{Cpn} = +1.5 / -1.0
5. EARTHQUAKE DESIGN DATA (NONSTRUCTURAL COMPONENTS ASCE 7-16 CHAPTER 13)
A. SEISMIC IMPORTANCE FACTOR, I_e = 1.0
B. OCCUPANCY CATEGORY = II
C. MAPPED SPECTRAL RESPONSE ACCELERATIONS
 S_s = 0.621g
 S_1 = 0.295g
D. SITE CLASS = D
E. CUMULATED SPECTRAL RESPONSE COEFFICIENTS
 SDS = 0.641g
F. SEISMIC DESIGN CATEGORY = D
G. EQUIPMENT CABINETS
BATTERIES & COMMUNICATION EQUIPMENT (ASCE 7-16 TABLE 13.6-1)
AMPLIFICATION COEFFICIENT, a_p = 1.0
RESPONSE COEFFICIENT, R_p = 2.5
DESIGN ACCELERATION, F_p = $0.48 \times SDS \times I_e \times V$
6. DESIGN LOAD COMBINATIONS
A. D
B. D + L
C. D + (0.6W OR 0.7E)
D. D + 0.75(0.6W OR 0.7E) + 0.75(L OR S OR R)
E. 0.6D + 0.5W/
F. 0.6D + 0.7E

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ANCHOR
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LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA 92648

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

T-2.1

NOTICE

Radio frequency fields beyond this point may exceed the FCC general public exposure limit. Obey all posted signs and site guidelines for working in radio frequency environments.

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307 (b).

AVISO

Los campos de frecuencias de radio a partir de este punto pueden exceder el límite del cual el FCC permite que el público en general podrá estar expuesto.

De acuerdo a las reglas de la Comisión Federal de Comunicaciones (FCC) sobre emisiones de radio frecuencia 47 CFR 1.1307 (b).

NOTICE

GUIDELINES FOR WORKING IN RADIOFREQUENCY ENVIRONMENTS

- ▲ All personnel should have electromagnetic energy (EME) awareness training.
- ▲ All personnel entering this site must be authorized.
- ▲ Obey all posted signs.
- ▲ Assume all antennas are active.
- ▲ Before working on antennas, notify owners and disable appropriate transmitter.
- ▲ Maintain minimum 3 feet clearance from all antennas.
- ▲ Do not stop in front of antennas.
- ▲ Use personal RF monitors while working near antennas.
- ▲ Never operate transmitters without antenna during normal operation.
- ▲ Do not operate base station antennas in equipment room.

DANGER

HAZARDOUS MATERIAL STORAGE AREA

WARNING

THIS FACILITY CONTAINS CORROSIVE LIQUID TOXIC LIQUID CLASS 1 WATER REACTIVE LIQUID

IN CASE OF EMERGENCY CALL

1-888-662-4662

SITE NUMBER: LA02543A

SITE NAME: SC101 HUNTINGTON BEACH FI

CAUTION

Beyond this point, Radio frequency fields at this site may exceed FCC rules for human exposure. For your safety, obey all posted signs and site guidelines for working in radio frequency environments.

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307 (b).

ATENCIÓN

A partir de este lugar, Los campos de frecuencias de radio en este sitio pueden exceder el límite del cual las reglas del FCC permiten que usted expuesto sea humano. Por su seguridad, obedezca todos los señales indicados y los guías del sitio para trabajar en las estaciones de frecuencia de radio.

De acuerdo a las reglas de la Comisión Federal de Comunicaciones (FCC) sobre emisiones de radio frecuencia 47 CFR 1.1307 (b).

WARNING

Beyond this point, Radio frequency fields at this site may exceed FCC rules for human exposure. Failure to obey all posted signs and site guidelines for working in radio frequency environments could result in personal injury.

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307 (b).

ADVERTENCIA

A partir de este lugar, Los campos de frecuencias de radio en este sitio exceden el límite del cual las reglas del FCC permiten que usted expuesto sea humano. El no obedecer todos los señales indicados y los guías del sitio para trabajar en las estaciones de frecuencia de radio, pueden resultar en lesiones personales.

De acuerdo a las reglas de la Comisión Federal de Comunicaciones (FCC) sobre emisiones de radio frecuencia 47 CFR 1.1307 (b).

ABBREVIATION	DEFINITION	GLB.	GLOBAL POSITIONING SYSTEM
A.B.	ANCHOR BOLT	GRC.	GROWTH RADIO CABINET
ABV.	ABOVE	GRND.	GROUND
AC	AIR CONDITIONING	HDR.	HEADER
ACC	AIR CONDITIONING UNIT	HGR.	HEIGHT
ACCA	ANTENNA CABLE COVER ASSY.	HSS.	HOLLOW STRUCTURAL SECTION
ADD'L	ADDITIONAL	ICGB.	ISOLATED COPPER GROUND BUS
A.F.F.	ABOVE FINISHED FLOOR	IGR	INTERIOR GROUND RING
A.F.G.	ABOVE FINISHED GRADE	INT.	INTERIOR
A.G.L.	ABOVE GRADE LEVEL	INT. (I)	INTERIOR
ALUM.	ALUMINUM	INT. (S)	INTERIOR
ALT.	ALTERNATE	LAG (S)	LAG BOLTS
ANT.	ANTENNA	L.F.	LINEAR FEET (FOOT)
APPRX.	APPROXIMATE(LY)	L.	LONGITUDINAL
APX.	APPROXIMATE	MGB.	MASTER GROUND BUS
ARCH.	ARCHITECT(LURAL)	MAS.	MASONRY
ASSY.	ASSEMBLY	MAX.	MAXIMUM
AWG.	AMERICAN WIRE GAUGE	M.B.	MACHINE BOLT
BCN	BEACON	MECH.	MECHANICAL
BD.	BOLLARD	MFR.	MANUFACTURER
BCK.	BRASS DISK	MISC.	MISCELLANEOUS
BLDG.	BUILDING	MTL.	METAL
BLK.	BLOCK	MTL.	METAL
BLKG.	BLOCKING	MTL.	METAL
BM	BEAM / BENCH MARK	MTL.	METAL
B.N.	BOUNDARY NAILING	MTL.	METAL
BTOW.	BARE TINNED COPPER WIRE	MTL.	METAL
B.O.F.	BOTTOM OF FOOTING	MTL.	METAL
BTM.	BOTTOM	MTL.	METAL
BRCE.	BRACE	MTL.	METAL
BTS	BASE TRANSCIEVER STATION	MTL.	METAL
B.W.F.	BARBED WIRE FENCE	MTL.	METAL
BUJ	BACKUP CABINET	MTL.	METAL
CAB.	CABINET	MTL.	METAL
CANT.	CANTILEVER(ED)	MTL.	METAL
CL.P.	CAST IN PLACE	MTL.	METAL
CL.F.	CHAIN LINK FENCE	MTL.	METAL
CLG.	CEILING	MTL.	METAL
CLR.	CLEAR	MTL.	METAL
COL.	COLUMN	MTL.	METAL
CONC.	CONCRETE	MTL.	METAL
CONN.	CONNECTION(OR)	MTL.	METAL
CONST.	CONSTRUCTION	MTL.	METAL
CONT.	CONTINUOUS	MTL.	METAL
CPD	CONCRETE PAD	MTL.	METAL
C.T.	CABLE TRAY	MTL.	METAL
d	PENNY (NAILS)	MTL.	METAL
DBL.	DOUBLE	MTL.	METAL
DEF.	DEFINITION	MTL.	METAL
DEPT.	DEPARTMENT	MTL.	METAL
D.F.	DOUGLAS FIR	MTL.	METAL
DIA. (Ø)	DIAMETER	MTL.	METAL
DIAG.	DIAGONAL	MTL.	METAL
DIM.	DIMENSION	MTL.	METAL
DOOR	DOOR	MTL.	METAL
DWG.	DRAWING(S)	MTL.	METAL
DWL.	DOWEL(S)	MTL.	METAL
EA.	EACH	MTL.	METAL
EBX	ELECTRICAL BOX	MTL.	METAL
EG	EQUIPMENT GROUND	MTL.	METAL
EGR	EQUIPMENT GROUND RING	MTL.	METAL
EL.	ELEVATION	MTL.	METAL
ELEC.	ELECTRICAL	MTL.	METAL
ELEV.	ELEVATOR	MTL.	METAL
EM.	ELECTRICAL METER	MTL.	METAL
E.M.T.	ELECTRICAL METALLIC TUBING	MTL.	METAL
E.O.P.	EDGE OF PAVEMENT	MTL.	METAL
EQ. (H)	EQUAL	MTL.	METAL
E.V.T.	ELECTRIC VALVE	MTL.	METAL
ENG.	EXPANSION	MTL.	METAL
EXIST.	EXISTING	MTL.	METAL
EXT.	EXTERIOR	MTL.	METAL
FAB.	FABRICATION(OR)	MTL.	METAL
F.N.	FINISH FLOOR	MTL.	METAL
F.O.	FINISH GRADE	MTL.	METAL
F.N.	FINISH GRADE	MTL.	METAL
F.L.	FLOOR	MTL.	METAL
FDN.	FOUNDATION	MTL.	METAL
FRP.	FIBER REINFORCED PLASTIC/ FIBER REINFORCED POLYMER	MTL.	METAL
F.C.	FACE OF CONCRETE	MTL.	METAL
F.M.	FACE OF MASONRY	MTL.	METAL
F.S.	FACE OF STUD	MTL.	METAL
F.W.	FACE OF WALL	MTL.	METAL
F.S.	FINISHED SURFACE	MTL.	METAL
FT. (I)	FOOT(FEET)	MTL.	METAL
FTG.	FOOTING	MTL.	METAL
GA.	GAUGE	MTL.	METAL
GL.	GALVANIZED(D)	MTL.	METAL
G.F.I.	GROUND FAULT INTERRUPTER	MTL.	METAL
GEN	GENERATOR	MTL.	METAL

DETAIL REFERENCE

ELEVATION REFERENCE

SECTION REFERENCE

PROPOSED ALPHA

EXISTING ALPHA

SECTOR 0

SECTOR 90

SECTOR 180

SECTOR 270

ELEVATION BUBBLE

EXISTING T-MOBILE PANEL ANTENNAS

EXISTING T-MOBILE RADIOS

EXISTING T-MOBILE TMA/DIPLEXER

PROPOSED T-MOBILE PANEL ANTENNAS

PROPOSED T-MOBILE RADIOS

FRP MATERIAL

STEEL MATERIAL

LINE TYPES

PROPERTY LINE

CENTER LINE

FIBER CABLE

GROUNDING CABLE

CHAIN LINK FENCE

WOOD FENCE

LEGEND

CONSTRUCTION DRAWINGS: 8/4/20

SCOPE OF WORK: 1/5/2020

SITE SURVEY: N/A

SITE WALK: N/A

BATTERY INFORMATION: N/A

REFERENCED DOCUMENTS

LEGAL DESCRIPTION

THE EAST 565.00 FEET OF PARCEL 1, IN THE CITY OF HUNTINGTON BEACH, COUNTY OF ORANGE, STATE OF CALIFORNIA, AS SHOWN ON A MAP FILED IN BOOK 42, PAGE 25 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, SAID EAST 565.00 FEET BEING MEASURED AT RIGHT ANGLES FROM THE CENTERLINE OF EDWARDS STREET, AS SHOWN ON SAID PARCEL MAP.

SCALE

N.T.S.

5

SCALE

N.T.S.

4

SCALE

N.T.S.

1

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0	01/29/2021	100% CDs	EDZ
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C90242
3-24-21
CIVIL
STATE OF CALIFORNIA

"I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME AND UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA"

SITE INFORMATION

ANCHOR

SC101 HUNTINGTON BEACH FI

LA02543A

18591 EDWARDS ST.

HUNTINGTON BEACH, CA 92648

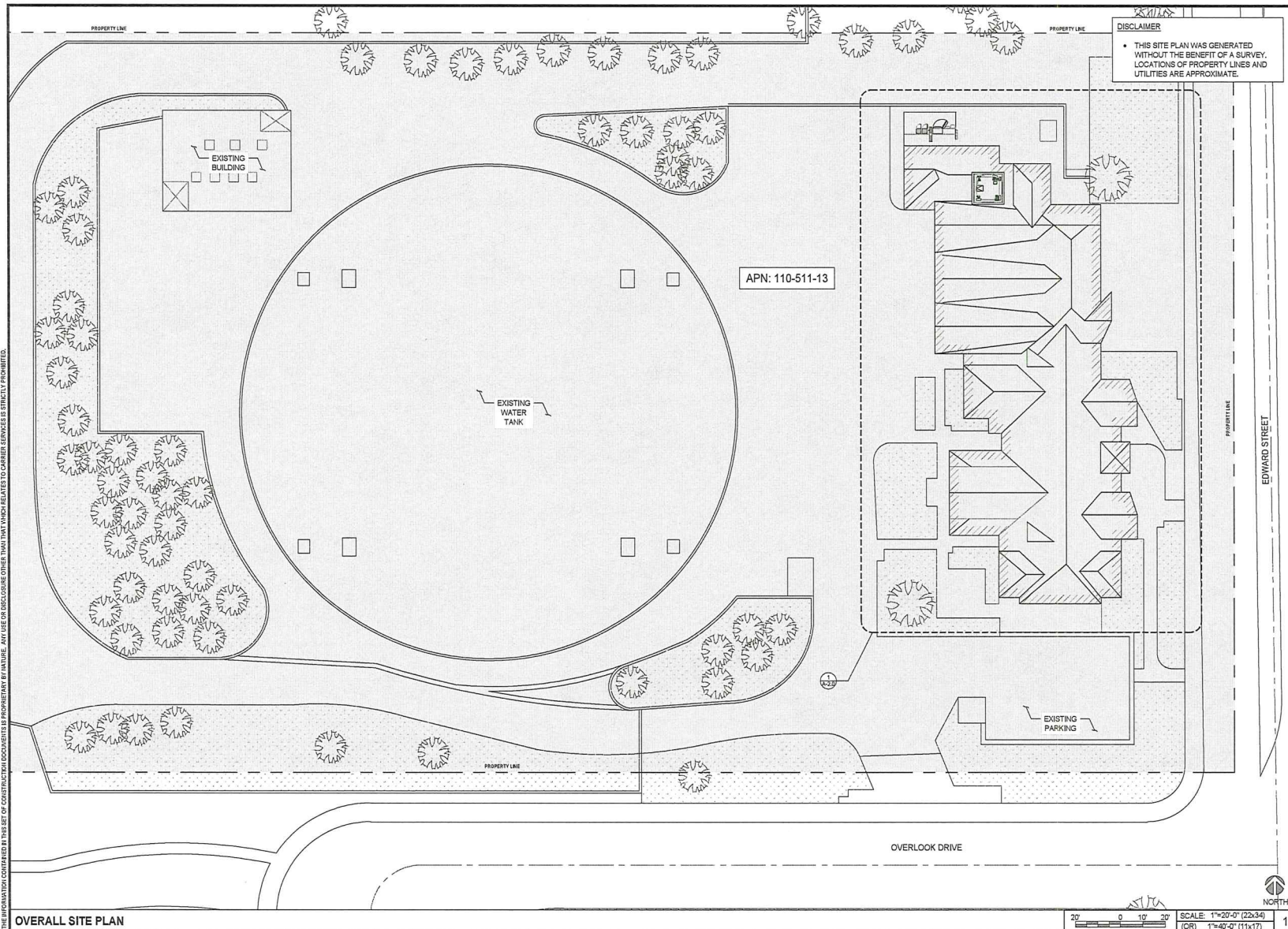
SHEET TITLE

LEGAL DESCRIPTION, REFERENCED DOCUMENTS, LEGEND, ABBREVIATIONS & SIGNAGE

SHEET NUMBER

T-3.0

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



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O	01/29/2021	100% CDs	EDZ
1	03/24/2021	100% CDs	EDZ



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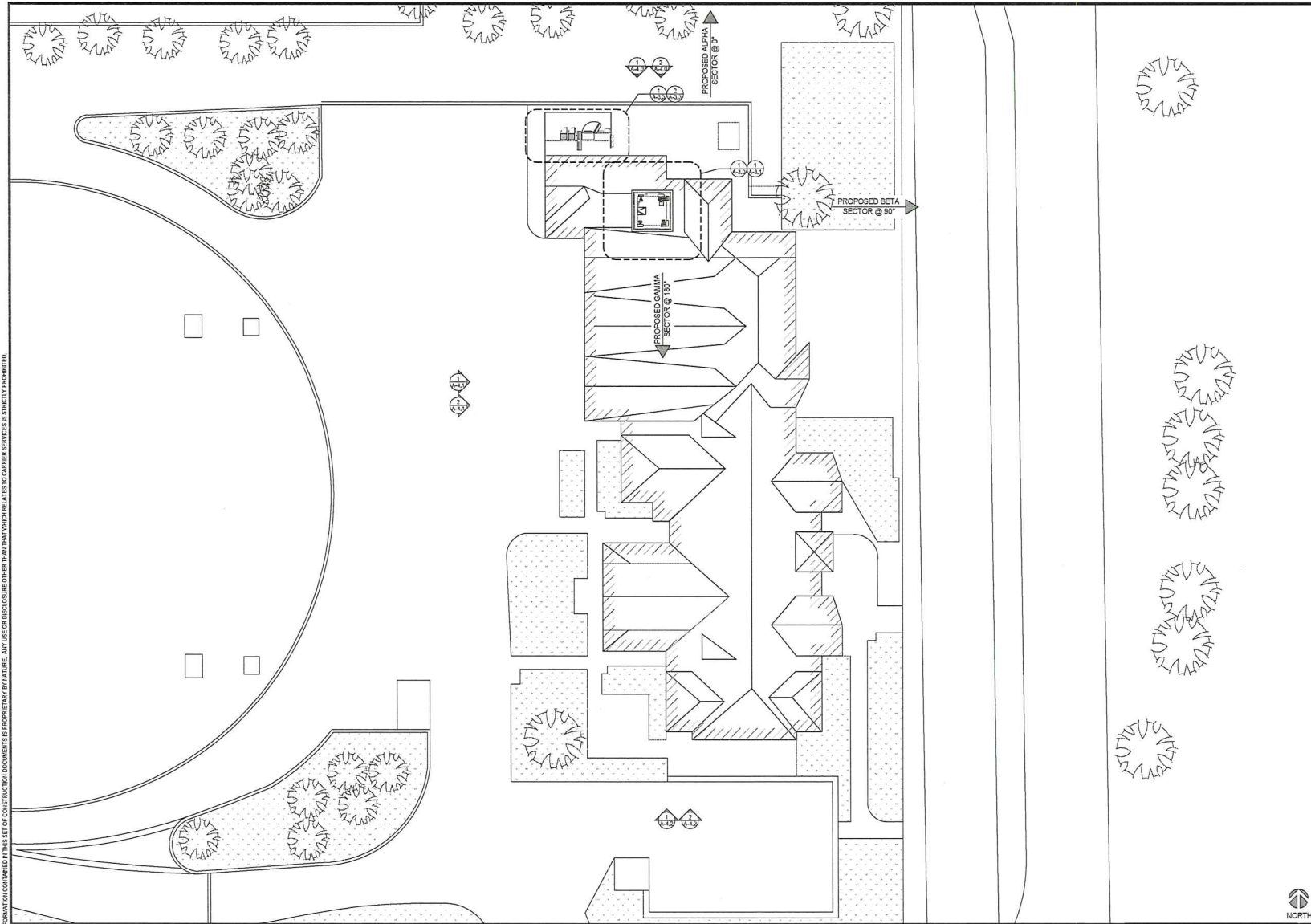
SITE INFORMATION
ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

A-1.0



PROPOSED ENLARGED SITE PLAN

0 4' 8' 16' SCALE: 1/16"=1'-0" (22x34)
(OR) 1/32"=1'-0" (11x17)



REVISIONS				
REV.	DATE	DESCRIPTION	BY	CHKD.
A	01/09/2021	90% CDs	EDZ	
B	01/28/2021	100% CDs	EDZ	
1	03/24/2021	100% CDs	EDZ	



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SITE INFORMATION
ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE
PROPOSED ENLARGED
SITE PLAN

SHEET NUMBER
A-2.0



MD7

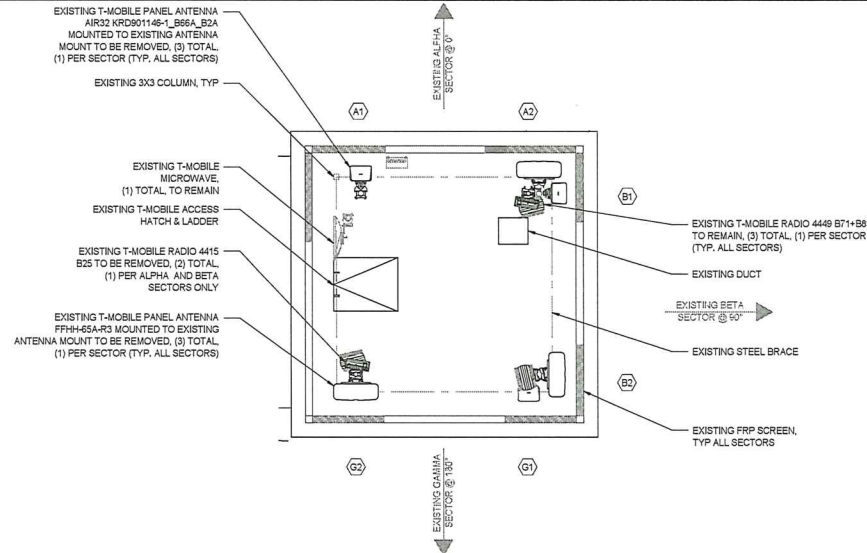
MD7, LLC
10590 West Ocean Air Dr., Suite 300
San Diego, CA 92130
858-966-7459

SECTOR	AZIMUTH	RAD CENTER	TOP OF ANTENNA	GENERAL ANTENNA SIZE	POSITION	EXISTING OR PROPOSED	ANTENNA MODEL	TMA/RADIO	CABLE	CABLE LENGTH AS PER RFDS
ALPHA	0°	41'-0"	43'-0"	4'-6"	1	EXISTING TO BE REMOVED	AIR32 KRD901146-1_B66A_B2A	-	(1) 6X12 HCS 6AWG	131'-0"
			43'-3"	4'-0"	2	EXISTING TO BE REMOVED	FFHH-65A-R3	(1) RADIO 4449 B71+B85 (1) RADIO 4415 B25	(1) 3X6 HCS	131'-0"
BETA	90°	41'-0"	43'-0"	4'-6"	1	EXISTING TO BE REMOVED	AIR32 KRD901146-1_B66A_B2A	-	-	-
			43'-3"	4'-0"	2	EXISTING TO BE REMOVED	FFHH-65A-R3	(1) RADIO 4449 B71+B85	(1) 3X6 HCS	131'-0"
GAMMA	180°	41'-0"	42'-3"	4'-6"	1	EXISTING TO BE REMOVED	AIR32 KRD901146-1_B66A_B2A	-	-	-
			43'-0"	4'-0"	2	EXISTING TO BE REMOVED	FFHH-65A-R3	(1) RADIO 4449 B71+B85 (1) RADIO 4415 B25	(1) 3X6 HCS	131'-0"

CONTRACTOR TO REFERENCE FINAL RFDS AND FIELD VERIFY ALL CABLE LENGTHS PRIOR TO CONSTRUCTION

EXISTING ANTENNA SCHEDULE

SCALE
N.T.S. 2



EXISTING ANTENNA PLAN

0 1' 2' 4'
SCALE: 1/4"=1'-0" (22x34)
(OR) 1/8"=1'-0" (11x17) 1

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	01/09/2021	90% CDs	EDZ
O	01/29/2021	100% CDs	EDZ
1	03/24/2021	100% CDs	EDZ



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SITE INFORMATION
ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE
EXISTING ANTENNA PLAN
& SCHEDULE

SHEET NUMBER
A-3.0

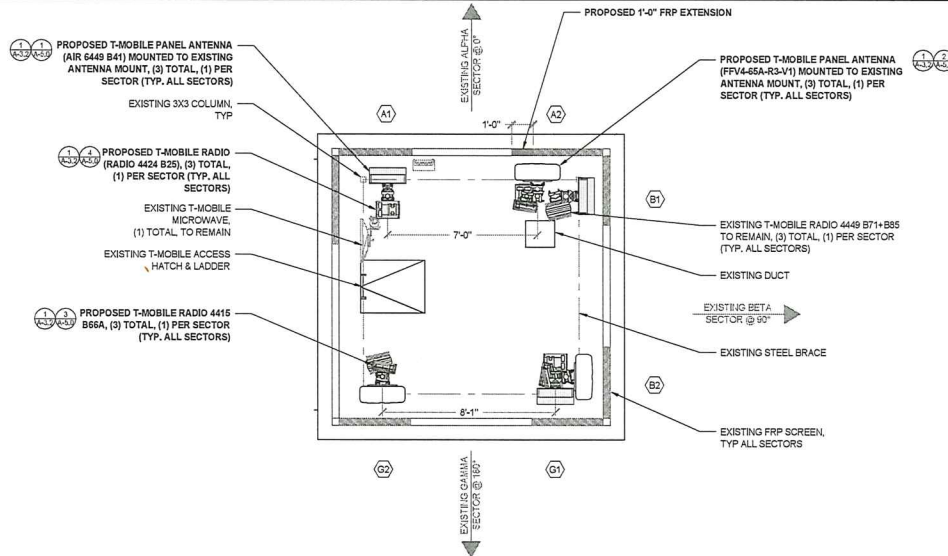


SECTOR	AZIMUTH	RAD CENTER	TOP OF ANTENNA	GENERAL ANTENNA SIZE	POSITION	EXISTING OR PROPOSED	ANTENNA MODEL	TMA/RADIO	CABLE	CABLE LENGTH AS PER RFDS
ALPHA	0°	41'-0"	42'-3"	2'-6"	1	PROPOSED	AIR 6449 B41	N/A	(1) 6X12 HCS (4) FIBER JUMPERS	±131'-0" 16'-0"
		41'-0"	43'-0"	4'-0"	2	PROPOSED	FFV4-65A-R3-V1	(1) RADIO 4449_B71+B85 (1) RADIO 4424_25 (1) RADIO 4415_B66A	(8) FIBER JUMPERS (12) SUREFLEX JUMPERS (1) 3X6 HCS	16'-0" 10'-0" ±131'-0"
BETA	90°	41'-0"	42'-3"	2'-6"	1	PROPOSED	AIR 6449 B41	N/A	(1) 6X12 HCS (4) FIBER JUMPERS	±131'-0" 16'-0"
		41'-0"	43'-0"	4'-0"	2	PROPOSED	FFV4-65A-R3-V1	(1) RADIO 4449_B71+B85 (1) RADIO 4424_25 (1) RADIO 4415_B66A	(8) FIBER JUMPERS (12) SUREFLEX JUMPERS (1) 3X6 HCS	16'-0" 10'-0" ±131'-0"
GAMMA	180°	41'-0"	42'-3"	2'-6"	1	PROPOSED	AIR 6449 B41	N/A	(1) 6X12 HCS (4) FIBER JUMPERS	±131'-0" 16'-0"
		41'-0"	43'-0"	4'-0"	2	PROPOSED	FFV4-65A-R3-V1	(1) RADIO 4449_B71+B85 (1) RADIO 4424_25 (1) RADIO 4415_B66A	(8) FIBER JUMPERS (12) SUREFLEX JUMPERS (1) 3X6 HCS	16'-0" 10'-0" ±131'-0"

CONTRACTOR TO REFERENCE FINAL RFDS AND FIELD VERIFY ALL CABLE LENGTHS PRIOR TO CONSTRUCTION

PROPOSED ANTENNA SCHEDULE

SCALE
N.T.S. 2



PROPOSED ANTENNA PLAN

SCALE: 3/8"=1'-0" (22x34)
(CR) 3/16"=1'-0" (11x17)

REV.	DATE	DESCRIPTION	APPROVED
A	01/09/2021	90% CDs	EDZ
0	01/29/2021	100% CDs	EDZ
1	03/24/2021	100% CDs	EDZ



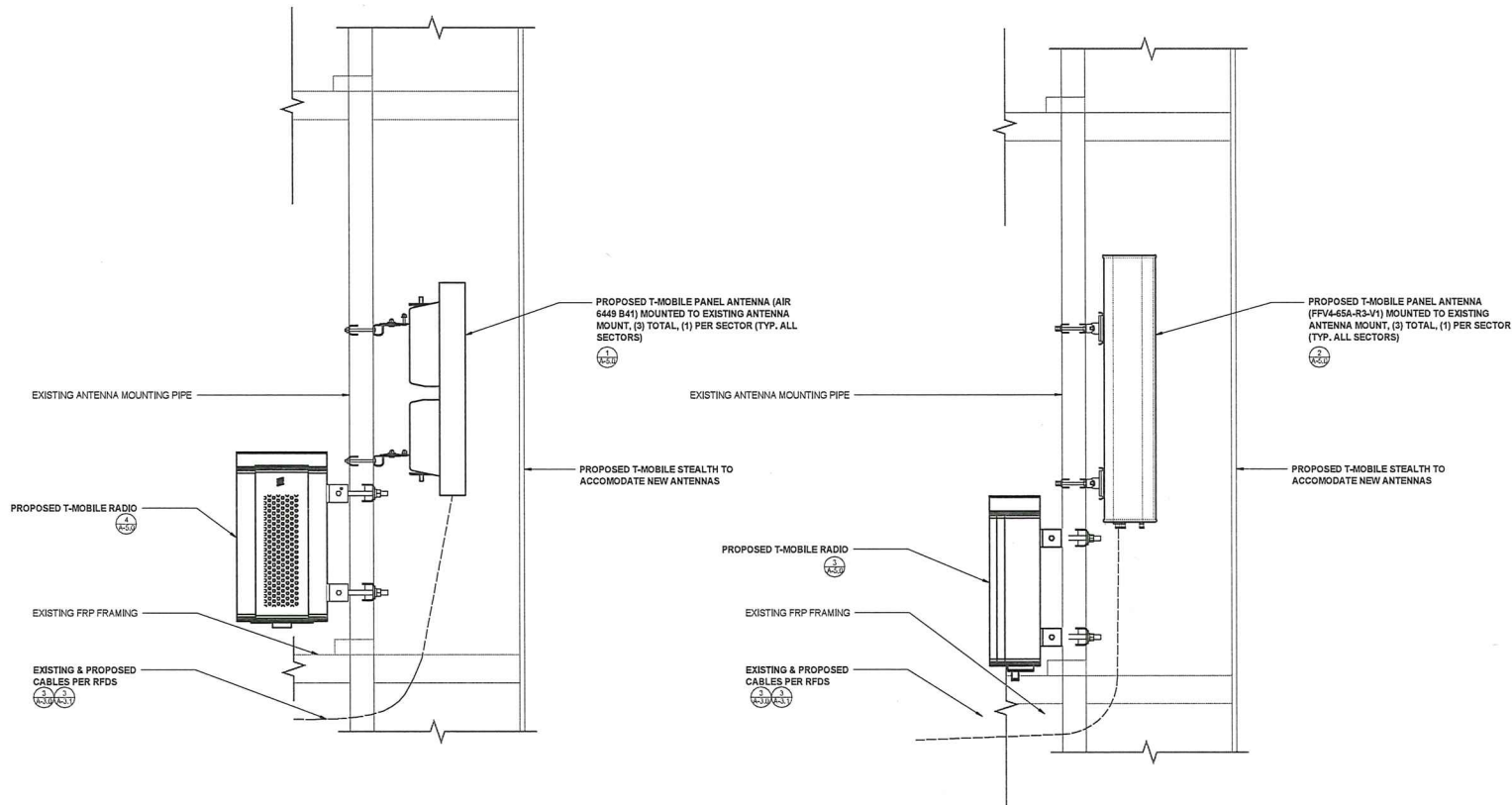
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SITE INFORMATION
ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE
PROPOSED ANTENNA
PLAN & SCHEDULE

SHEET NUMBER
A-3.1

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



ANTENNA & RADIO MOUNTING DETAILS

0' 1' 5' 3' 6" SCALE: 2"=1'-0" (20x34)
(OR) 1"=1'-0" (11x17)

1



REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	01/08/2021	80% CDs	EDZ
Q	01/28/2021	100% CDs	EDZ
1	03/24/2021	100% CDs	EDZ



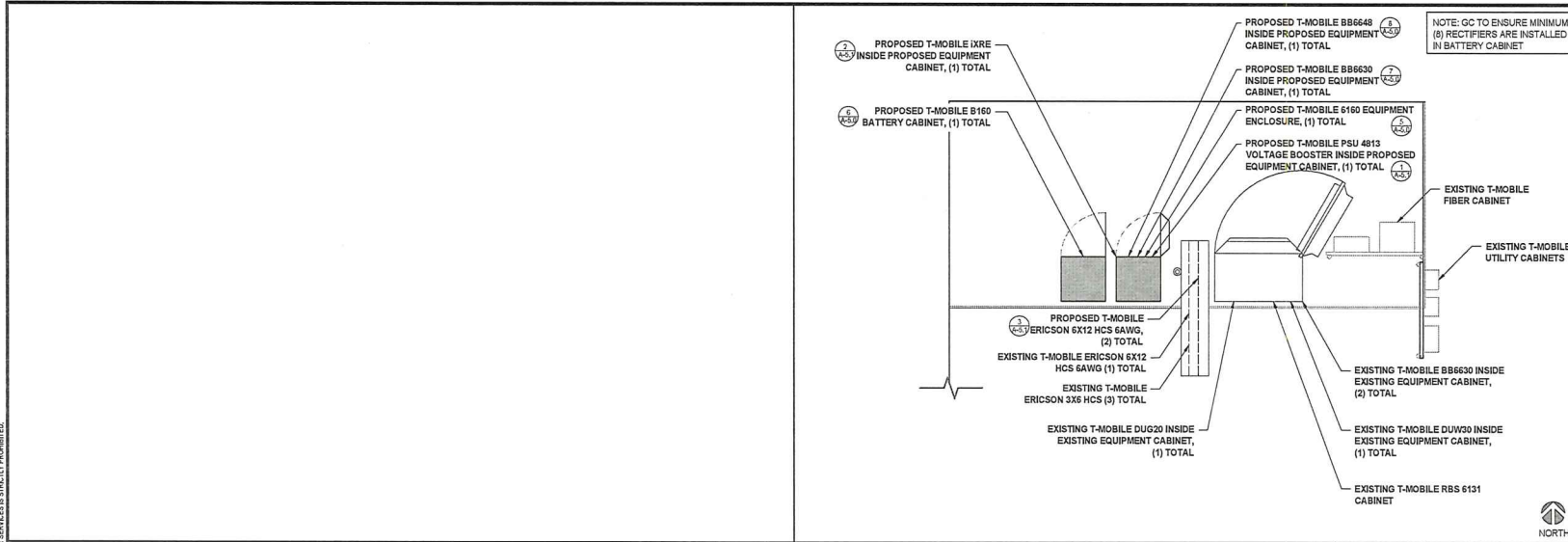
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SITE INFORMATION
ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE
ANTENNA & RADIO
MOUNTING DETAILS

SHEET NUMBER
A-3.2

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NOTE: GC TO ENSURE MINIMUM (8) RECTIFIERS ARE INSTALLED IN BATTERY CABINET



REVISIONS			
REV.	DATE	DESCRIPTION	APPROVED
A	01/08/2021	90% CDs	EDZ
0	01/29/2021	100% CDs	EDZ
1	03/24/2021	100% CDs	EDZ



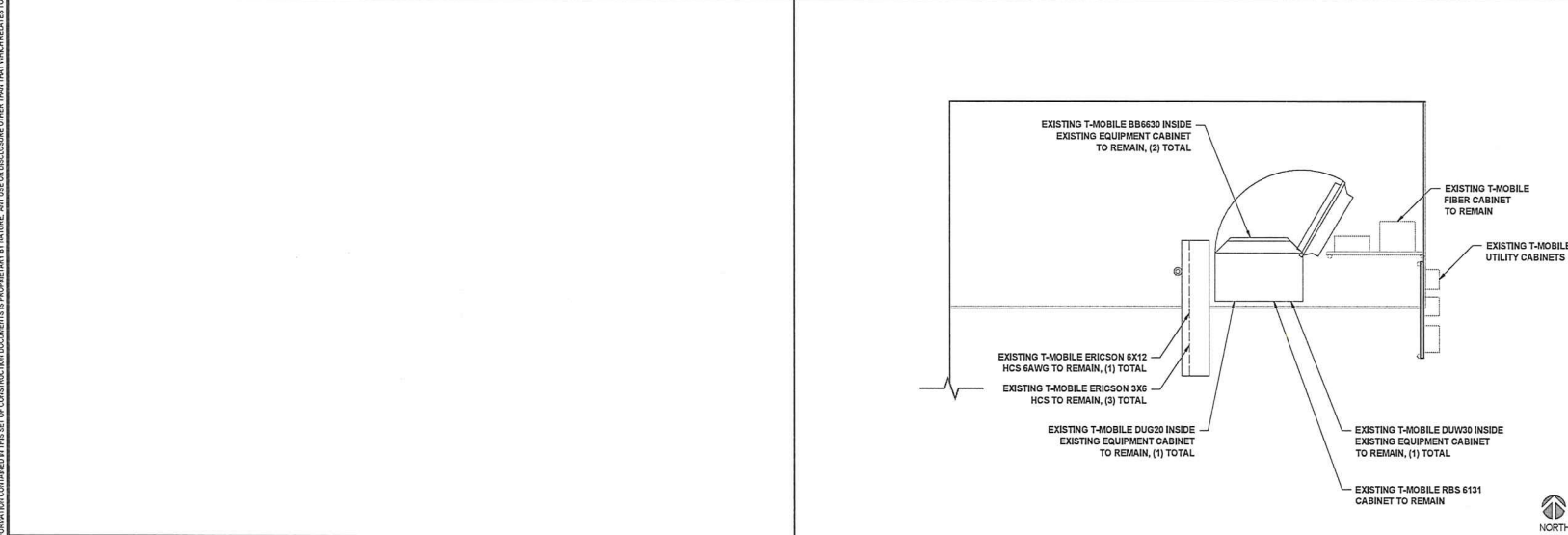
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SITE INFORMATION
ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE
EXISTING & PROPOSED
EQUIPMENT PLANS, &
BATTERY CALCULATIONS

SHEET NUMBER
A-3.3

NOT USED SCALE 4 PROPOSED EQUIPMENT PLAN 2



NOT USED SCALE 3 EXISTING EQUIPMENT PLAN 1



REVISIONS				
REV.	DATE	DESCRIPTION	BY	CHKD.
A	01/09/2021	90% CDs	EDZ	
D	01/28/2021	100% CDs	EDZ	
1	03/24/2021	100% CDs	EDZ	



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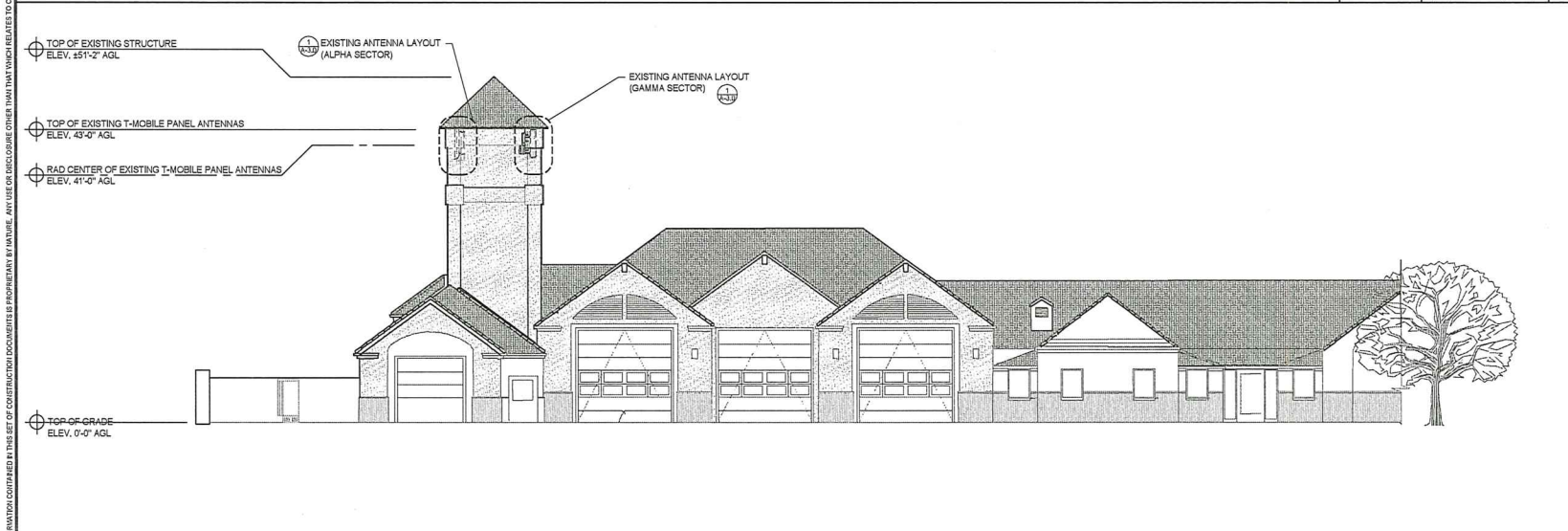
SITE INFORMATION
ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE
EXISTING & PROPOSED
NORTH ELEVATIONS

SHEET NUMBER
A-4.0



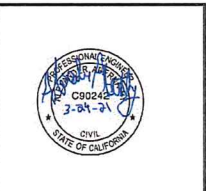
PROPOSED WEST ELEVATION



EXISTING WEST ELEVATION



REVISIONS			
REV.	DATE	DESCRIPTION	BY
A	01/09/2021	90% CDs	EDZ
D	01/28/2021	100% CDs	EDZ
1	03/24/2021	100% CDs	EDZ

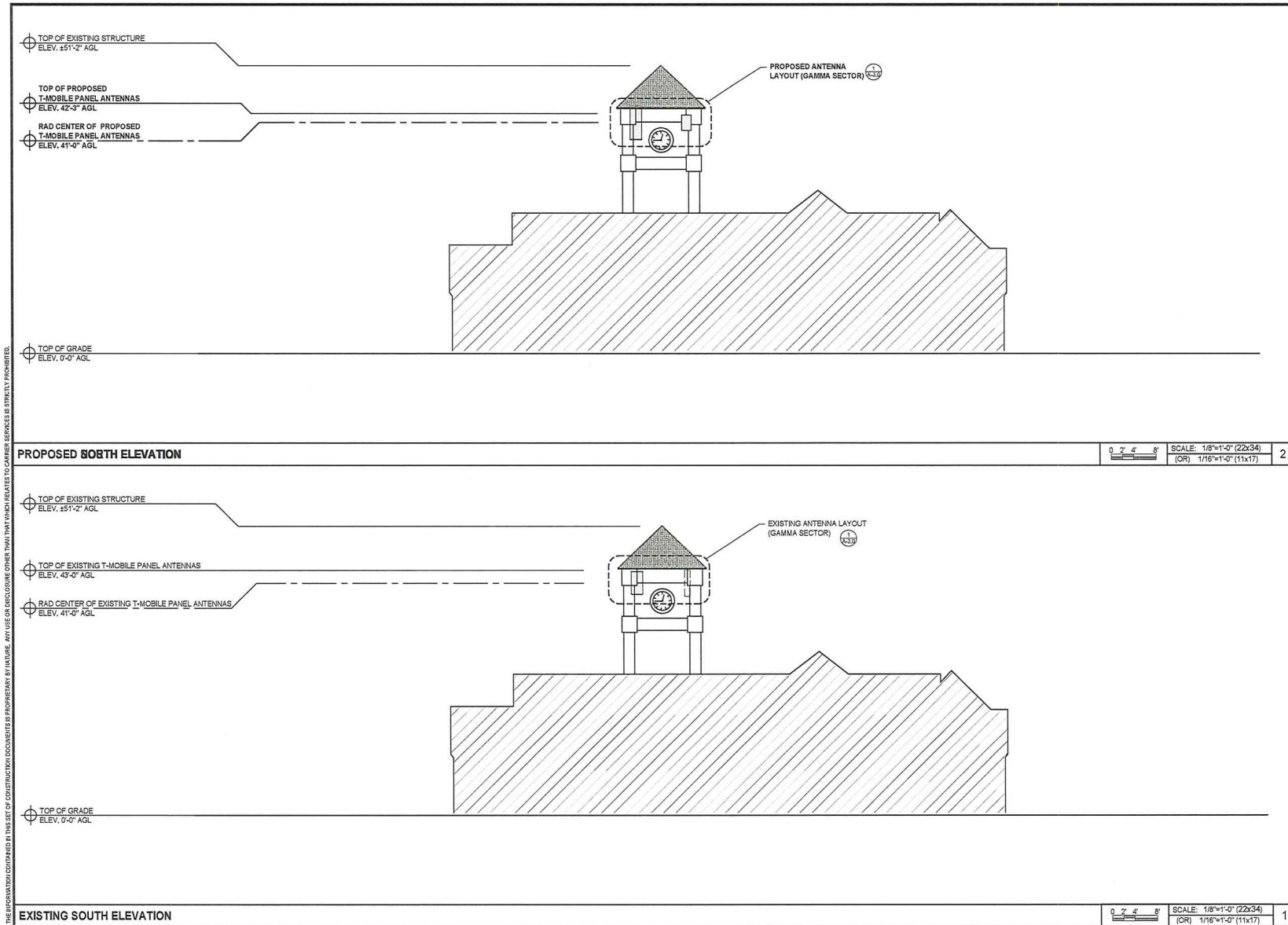


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SITE INFORMATION
ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE
EXISTING & PROPOSED
WEST ELEVATIONS

SHEET NUMBER
A-4.1



REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
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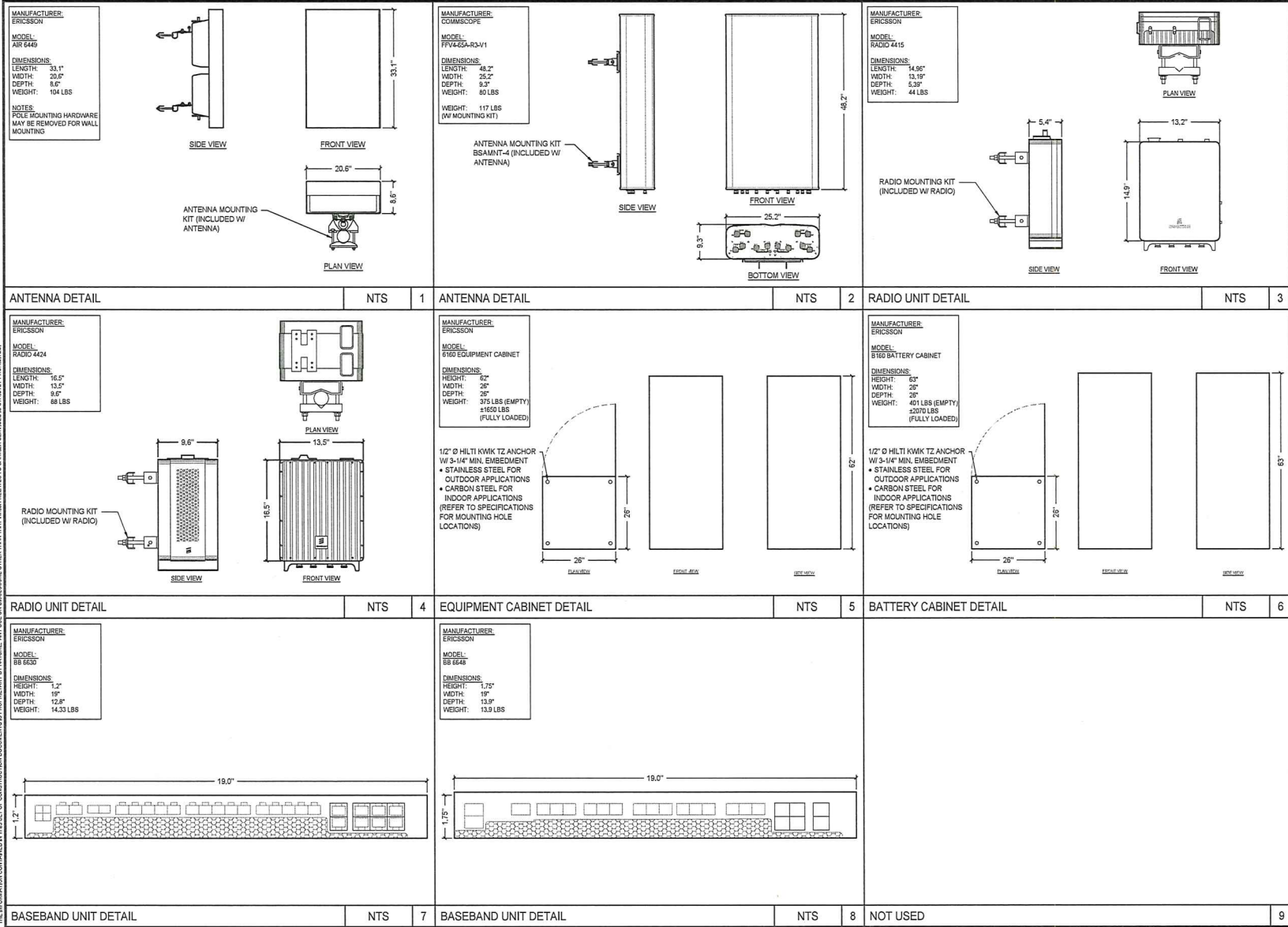


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SITE INFORMATION
ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE
EXISTING & PROPOSED
SOUTH ELEVATIONS


SHEET NUMBER
A-4.2



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




10500 VIA VALERIO DRIVE #200
SAN DIEGO, CA 92121
T-MOBILE.COM



MD7, LLC
10500 VIA VALERIO DRIVE #200
SAN DIEGO, CA 92121
619-556-0450

REV.	DATE	REVISIONS	DESIGNED BY	DRAWN BY
A	01/09/2021	90% CDs	EDZ	
0	01/29/2021	100% CDs	EDZ	
1	03/24/2021	100% CDs	EDZ	



C9024
3-04-21
CIVIL
STATE OF CALIFORNIA

THESE PLANS WERE PREPARED BY ME AND UNDER MY DIRECT SUPERVISION AND THAT I AM A duly registered engineer under the laws of the STATE OF CALIFORNIA

SITE INFORMATION

ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE

EQUIPMENT DETAILS & SPECIFICATIONS

SHEET NUMBER

A-5.0

MANUFACTURER:
ERICSSON
MODEL:
PBU 4BTD
DIMENSIONS:
HEIGHT: 1.7"
WIDTH: 19"
DEPTH: 14.3"
WEIGHT: 17.2 LBS

MANUFACTURER:
NOKIA
MODEL:
7250 W4+
203FP28 65FP28 245FP+
DIMENSIONS:
HEIGHT: 1.75"
WIDTH: 17.25"
DEPTH: 10.0"
WEIGHT: TBD

HYBRID CABLE WEIGHT		
18C 16	1.7LB/FT	2.5KGM
18C 34	2.4LB/FT	3.6KGM

VOLTAGE BOOSTER DETAIL

NTS

1

ROUTER DETAIL

NTS

2

6X12 HYBRID CABLE SYSTEM

NTS

3

NOT USED

4

NOT USED

5

NOT USED

6

NOT USED

7

NOT USED

8

NOT USED

9



REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
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0	01/28/2021	100% CDs	EDZ
1	03/24/2021	100% CDs	EDZ

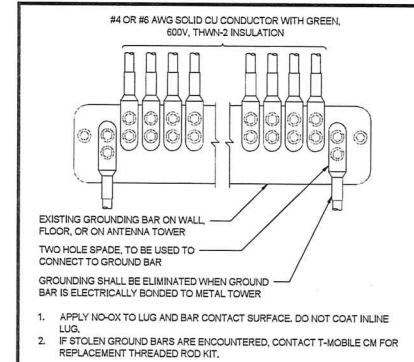


SITE INFORMATION
ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE
EQUIPMENT DETAILS &
SPECIFICATIONS

SHEET NUMBER
A-5.1

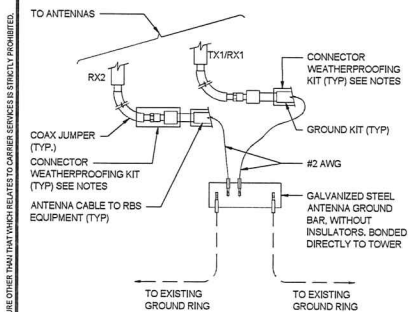
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WIRE INSTALLATION

SCALE
N.T.S.

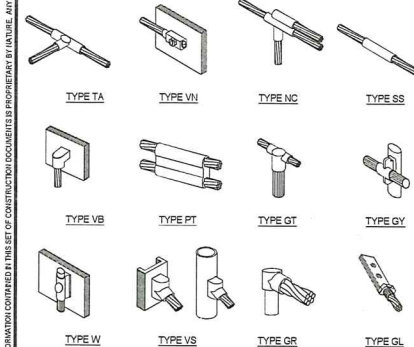
7



GROUND CABLE CONNECTION

SCALE
N.T.S.

6



EXOTHERMIC WELD CONNECTIONS

SCALE
N.T.S.

5

1. EXISTING ANTENNA GROUND BUS BAR NEAR ANTENNA MOUNTS WITH COAX GROUND KIT, SEE DETAIL 6/G-1.0.
2. EXISTING #6 AWG GROUND FROM ANTENNA GROUND BUS BAR TO TIE INTO EXISTING GROUNDING SYSTEM (TYP OF (2) PLACES), SEE DETAIL 7/G-1.0.
3. PROPOSED #6 AWG GROUND FROM EQUIPMENT MOUNT TO ANTENNA GROUND BUS BAR, SEE DETAIL 6/G-1.0.
4. PROPOSED #6 AWG GROUND FROM ANTENNAS TO ANTENNA GROUND BUS BAR, SEE DETAIL 6/G-1.0.
5. PROPOSED #6 AWG GROUND FROM RADIOS TO ANTENNA GROUND BUS BAR, SEE DETAIL 6/G-1.0.
6. 1/4" EXISTING EQUIPMENT GROUND BUS BAR NEAR EQUIPMENT WITH COAX GROUND KIT, SEE DETAIL 7/G-1.0.
7. 1/4" PROPOSED #6 AWG GROUND FROM EQUIPMENT CABINET TO EQUIPMENT GROUND BUS BAR, SEE DETAIL 7/G-1.0.
8. 1/4" EXISTING #6 AWG GROUND FROM EXISTING EQUIPMENT GROUND BUS BAR TO TIE INTO EXISTING GROUNDING SYSTEM (TYP OF (2) PLACES), SEE DETAIL 7/G-1.0.

GROUNDING KEY

SCALE
N.T.S.

4

- ⊗ COPPER GROUND ROD
- ⊙ MECHANICAL CONNECTION
- ⊠ CADWELD CONNECTION
- ⚡ FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM
- ⊠ TEST WELL
- ⊠ GROUND BAR
- G — GROUNDING WIRE

GROUNDING LEGEND

SCALE
N.T.S.

3

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURERS PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELDS AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.
3. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE. GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY A T-MOBILE REPRESENTATIVE.
5. REFER TO DIVISION 16 GENERAL ELECTRIC, GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
6. CONTRACTOR TO ABIDE BY ALL T-MOBILE SAFETY STANDARDS DURING SITE CONSTRUCTION.
7. CONTRACTOR SHALL REFER TO T-MOBILE STANDARDS FOR GROUNDING CONNECTIONS & INSTALLATION METHODS.
8. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED T-MOBILE REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RING.
9. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
10. GROUNDING ROD NOTES (WHERE APPLICABLE)
11. ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED. A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
12. POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.

GENERAL GROUNDING NOTES

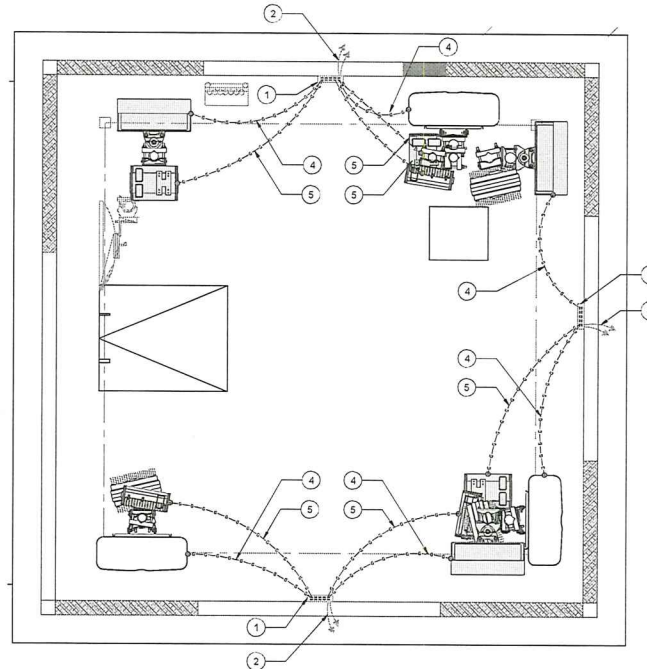
SCALE
N.T.S.

2

SCHEMATIC ANTENNA GROUNDING PLAN

NOTE

- NO STEEL GROUND OR CABLEING TO BE ON SIDES OR IN FRONT OF ANTENNAS



0 3' 6" 1'

SCALE: 3/4"=1'-0" (22x34)
(OR) 3/8"=1'-0" (11x17)

1

T-Mobile
1500 META CENTER DRIVE, SUITE 300
SAN DIEGO, CA 92130
619.594.7439

MD7
MD7, LLC
1500 META CENTER DRIVE, SUITE 300
SAN DIEGO, CA 92130
619.594.7439

REVISIONS			
REV.	DATE	DESCRIPTION	BY/REV.
A	01/09/2021	90% CDs	EDZ
0	01/29/2021	100% CDs	EDZ
1	03/24/2021	100% CDs	EDZ



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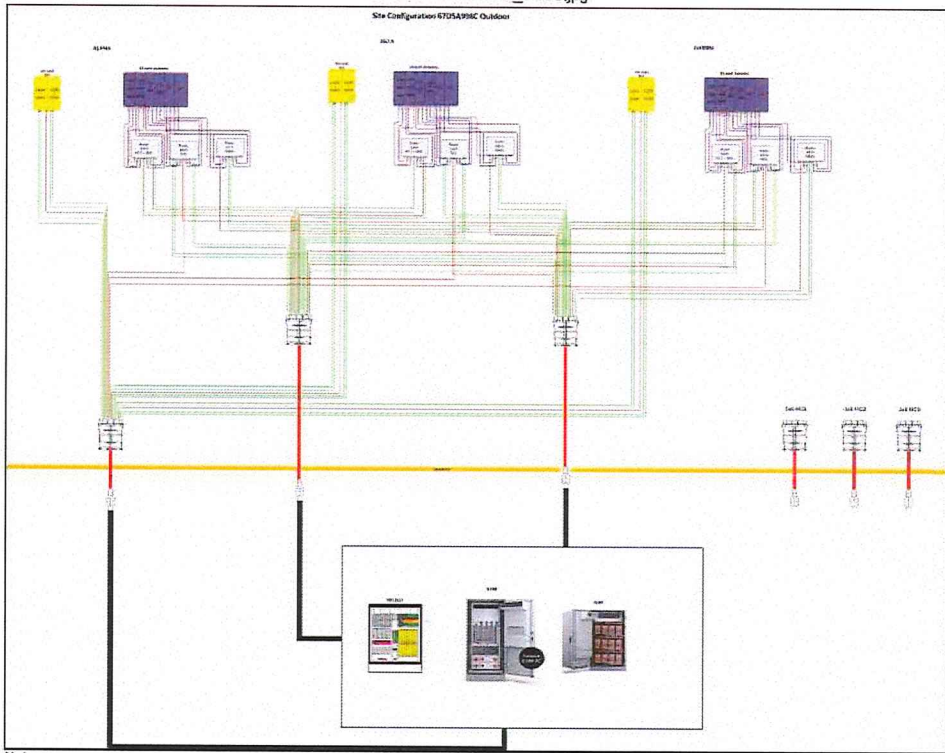
SITE INFORMATION
ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE
SCHEMATIC GROUNDING
PLANS, NOTES & DETAILS

SHEET NUMBER
G-1.0

Section 3 - Proposed Template Images

67D5A998C Outdoor_3HCS.jpg



Notes:

CONTRACTOR TO REFERENCE FINAL
RFDS PRIOR TO CONSTRUCTION

EQUIPMENT CONFIGURATION

SCALE
N.T.S.

1

T-Mobile

10201 VIA SAN DIEGO, SUITE 300
SAN DIEGO, CA 92121
1-800-950-5555

MD7

MD7, LLC
10201 VIA SAN DIEGO, SUITE 300
SAN DIEGO, CA 92121
619-594-7439

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
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1	03/24/2021	100% CDs	EDZ



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THE STATE OF CALIFORNIA

SITE INFORMATION

ANCHOR
SC101 HUNTINGTON BEACH FI
LA02543A
18591 EDWARDS ST.
HUNTINGTON BEACH, CA92648

SHEET TITLE

EQUIPMENT
CONFIGURATION

SHEET NUMBER

RF-1.0