



Real Estate
Assets

City Consent Application

For installation / modification of Wireless Communication Facility on City owned property

1/20/17

Date

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

RE: Site Name: Encanto Standpipe (Skyline) Project # LTE 3C/4G MRSOL013395 MRSOL014070
Site Address: 6780 Aviation Drive, San Diego (the "Property")
Agreement: Agreement dated 8/29/13 (the "agreement") between The City of San Diego ("City") and New Cingular Wireless PCS, LLC dba AT&T, ("Lessee" or "Permittee").

AT&T

_____ 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:

remove and replace (1) antenna per sector (3 total), install (2) RRUS per sector (6 total), install (1) WCS filter per sector (3 total), install (1) surge suppressor on tower, remove and replace DUS41 with BBU 5216 in existing telco rack, install (2) DC power trunks, install (1) fiber trunk

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, AT&T would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, Justin Miller, Black & Veatch, agent for AT&T

Applicant Signature: millerj3@bv.com

Digitally signed by millerj3@bv.com
DN: cn=millerj3@bv.com
Date: 2017.01.20 14:08:43 -0800

City Public Utilities 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.

1/26/17

Date

SAID MAHDAVI

Print Name & Title

Associate Civil Engr.

[Signature]

Signature

City of San Diego, acknowledgement and consent for 6780 Aviation Drive

Site Location

1/27/17

Date

Cybele L. Thompson, Director of Real Estate Assets

Print Name & Title

[Signature]

Signature

☐ Approved and Stamped plans received and attached

☐ Scan as Amendment to Agreement



Real Estate
Assets



BLACK & VEATCH
Building a world of difference.®

RE: Letter of Authorization to Request Modifications to Existing Permit
Site Address: 6780 Aviation Drive
San Diego, CA 92114
AT&T Site ID/FA #: SD0653 / 10148082
AT&T Site Name: SKYLINE
Project/PACE ID: LTE 3C/4C MRSDL013395 MRSDL014070

To Whom It May Concern:

As owner/agent of the below described property, I do hereby appoint New Cingular Wireless PCS, LLC doing business as AT&T Mobility (AT&T), its employees, representatives, agents and/or consultants, to act as my agent for the purpose of consummating any building or land-use applications necessary to ensure AT&T's ability to use the property for which AT&T is submitting a Building Permit Application for the wireless telecommunications facility. I understand that this application may be denied, modified, or approved with conditions and that such conditions or modifications must be complied with prior to issuance of building permits.

I further understand that signing this authorization is not to be construed as a commitment of any kind and that all land-use approvals obtained will be subject to my approval of the project site plans.

Property Address: 6780 Aviation Drive
San Diego, CA 92114

APN#: 549-320-05-00

By:

Signature

Date

Print Name - Title

CODE COMPLIANCE

2013 CALIFORNIA BUILDING CODE
2013 CALIFORNIA RESIDENTIAL CODE
2013 CALIFORNIA TITLE 24
2013 CALIFORNIA FIRE CODE
2013 CALIFORNIA ENERGY CODE
2013 CALIFORNIA PLUMBING CODE
2013 CALIFORNIA MECHANICAL CODE
2013 CALIFORNIA ELECTRICAL CODE
TIA-222-G CODE

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

PROJECT DESCRIPTION

AT&T WIRELESS PROPOSES TO MODIFY AN EXISTING WIRELESS INSTALLATION. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- REMOVE AND REPLACE (1) ANTENNA PER SECTOR, TOTAL OF (3) ANTENNAS
- INSTALL (2) RRU PER SECTOR, TOTAL OF (6) RRUS
- INSTALL (1) WCS RF FILTER PER SECTOR, TOTAL OF (3) WCS RF FILTERS
- INSTALL (1) SURGE PROTECTOR ON TOWER
- REMOVE AND REPLACE DUGSI WITH BRU 5216 IN (1) TELCO RACK
- INSTALL (2) DC POWER TRUNKS AND (1) FIBER TRUNK

SITE INFORMATION

PROPERTY OWNER: CITY OF SAN DIEGO
SAN DIEGO, CA
CONTACT: ENZA CHARLES
APPLICANT: AT&T WIRELESS
SAN DIEGO, CA 92121
5738 PACIFIC CENTER BLVD.
APPLICANT REPRESENTATIVE: BLACK & VEATCH
10089 WILLOW CREEK ROAD, SUITE 350
SAN DIEGO, CA 92131
ZONING JURISDICTION: CITY OF SAN DIEGO
ZONING DISTRICT: RS-1-7
LATITUDE (NAD 83): 32° 42' 16.5" N
LONGITUDE (NAD 83): 117° 03' 08.29" W
PARCEL #: 549-320-05-00
OCCUPANCY GROUP: S-2 AT EQUIPMENT ENCLOSURE
CONSTRUCTION TYPE: V-N
OTHER WIRELESS FACILITIES: VERIZON, SPRINT, T-MOBILE
POWER COMPANY: SDG&E
TELEPHONE COMPANY: AT&T

PROJECT TEAM

PROJECT MANAGER:
DWAYNE GARRELL
BLACK & VEATCH
10089 WILLOW CREEK ROAD, SUITE 350
SAN DIEGO, CA 92131
PHONE: (619) 458-4113
EMAIL: GARRELLD@BV.COM

ENGINEERING:
TELECOM MANAGEMENT GROUP
14955 AVENIDA VENUSTO #8
SAN DIEGO, CA 92131
PHONE: (658) 248-7678
EMAIL: EDGAR.ORTIZ@TELECOMMANAGEMENTGROUP.COM

SITE ACQUISITION:
JUSTIN MILLER
BLACK & VEATCH
5 PETERS CANYON ROAD, STE 300
IRVINE, CA 92606
PHONE: (949) 239-3411
EMAIL: MILLERJ@BV.COM

CONSTRUCTION:
OVERLAND CONTRACTING
10089 WILLOW CREEK ROAD, SUITE 350
SAN DIEGO, CA 92131

RF ENGINEER:
JOSUE WILCHON
AT&T
5738 PACIFIC CENTER BLVD.
SAN DIEGO, CA 92121
PHONE: (650) 762-2161
EMAIL: JWS@ATT.COM



ENCANTO STANDPIPE (SKYLINE)

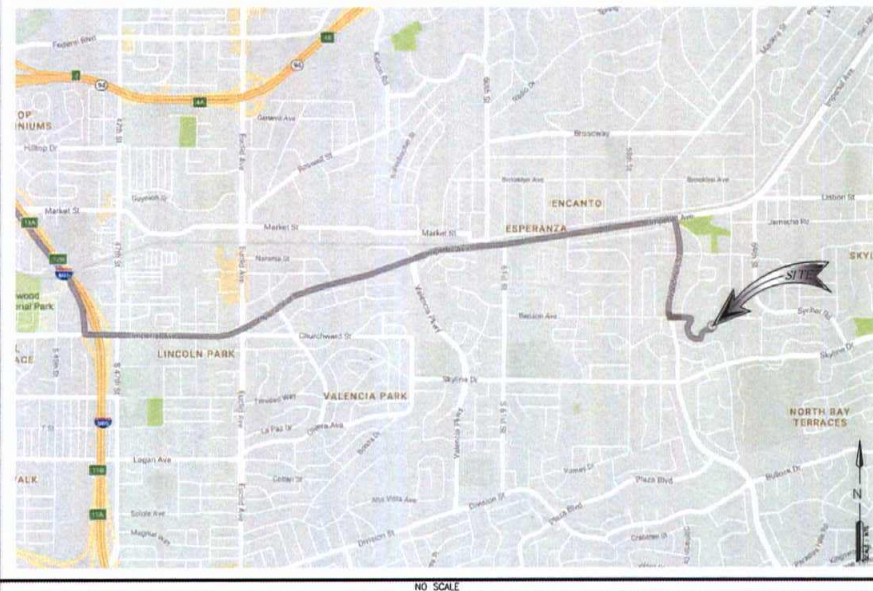
SITE NUMBER: SD0563

LTE 3C (AWS) / LTE 4C (WCS)

FA NUMBER: 10148082

6780 AVIATION DRIVE
SAN DIEGO, CA 92114

VICINITY MAP



NO SCALE

DRIVING DIRECTIONS FROM AT&T OFFICE

DIRECTIONS FROM AT&T OFFICE:

HEAD EAST ON PACIFIC CENTER BLVD TOWARD PACIFIC MESA BLVD. TURN RIGHT ONTO PACIFIC MESA BLVD. TURN LEFT ONTO PACIFIC HEIGHTS BLVD. TURN RIGHT AT THE 1ST CROSS STREET ONTO MIRA MESA BLVD. CONTINUE ONTO SORRENTO VALLEY RD. SLIGHT RIGHT ONTO THE INTERSTATE 805 S RAMP. FOLLOW I-805 S TO IMPERIAL AVE. TAKE EXIT 12A FROM I-805 S. MERGE ONTO I-805 S. KEEP LEFT TO STAY ON I-805 S. TAKE EXIT 12A FOR IMPERIAL AVE. CONTINUE ON IMPERIAL AVE. DRIVE TO AVIATION DR. USE ANY LANE TO TURN LEFT ONTO IMPERIAL AVE. TURN RIGHT ONTO WOODMAN ST. TURN LEFT ONTO BENSON AVE. BENSON AVE TURNS RIGHT AND BECOMES AVIATION DR. PARTIAL RESTRICTED USAGE ROAD. DESTINATION WILL BE ON THE LEFT.

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, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

APPROVALS

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

AT&T COMPLIANCE: _____ DATE: _____
AT&T RF ENGINEER: _____ DATE: _____
AT&T PM: _____ DATE: _____
PLANNER: _____ DATE: _____
CONSTRUCTION: _____ DATE: _____
SITE ACQUISITION: _____ DATE: _____
SITE OWNER: _____ DATE: _____

DRAWING INDEX

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E3	GROUNDING DETAILS



Know what's below.
Call before you dig.

NOTE:
48 HOURS PRIOR TO DIGGING, CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES TO LOCATE ALL UNDERGROUND UTILITIES.

1	NOVA CD	16-29-18
2	NOVA CD	16-27-18
Rev	Description	Date



TITLE SHEET

SD0563
ENCANTO STANDPIPE (SKYLINE)
6780 AVIATION DRIVE
SAN DIEGO, CA 92114
LTE 3C (AWS) / LTE 4C (WCS)



Project Number:
Drawn by: ENO/JP
Checked by: ERO
Sheet No:

T1

GENERAL CONSTRUCTION NOTES

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR - OVERLAND CONTRACTING INC. (OVC)
SUBCONTRACTOR - CONTRACTOR (CONSTRUCTION)
OWNER - AT&T
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND "AT&T" PROJECT SPECIFICATIONS.
- GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONDITIONS THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PLANS ARE NOT TO BE SCALE. THESE PLANS ARE INTENDED TO BE A DIAGNOSTIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DIMENSIONS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED BY THE SUE JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- EROSION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LADY PLUMS AND TRUE AS INDICATED ON THE DRAWINGS.
- SEAL PENETRATIONS THROUGH FIVE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSAL OF ALL DEBRIS.
- WORK PREVIOUSLY COMPLETED TO BE REPRESENTED BY LIGHT SHAVED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHAVED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRUCKS AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION AND COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A-10-2-ABC AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERCE AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCING & EXCAVATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE INTERFERED WITH THE EXECUTION OF THE WORK. SHALL BE REMOVED, CHIPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM GRADE, AND STABILIZED TO PREVENT EROSION.
- SUBCONTRACTOR SHALL MAINTAIN DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
- NO FILL OR ENHANCEMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR ENHANCEMENT.
- THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT MODIFIED PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 90 PERCENT MODIFIED PROCTOR DENSITY IN OPEN SPACE. ALL REWORKS IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL, PRE-APPROVED BY THE LOCAL JURISDICTION.
- ALL NECESSARY RUBBER STAMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DEPOSITED OF IN A LAWFUL MANNER.
- ALL BROODIES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION PRIOR TO PAYMENT.
- SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REVISIONS TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.

- THE PROPOSED FACILITY WILL BE UNHABITED AND DOES NOT REQUIRE PORTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
- NO OUTDOOR STORAGE OF SOLID WASTE CONTAINERS ARE PROPOSED.
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION "AT&T" MOBILITY GROUNDING STANDARD AND TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/CDMA WIRELESS SITES" AND TECHNICAL SPECIFICATION FOR FACILITY CONSTRUCTION". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FMA STANDARDS AND REQUIREMENTS.
- ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- NO MOIST, SHORT, DRY, OR CORROSION WILL RESULT FROM THIS FACILITY. (DELETE THIS NOTE IF THE SITE WILL HAVE A COVER/ROOF).
- NO ADDITIONAL PAVING TO BE PERFORMED EXISTING ACCESS AND PARKING TO REMAIN (REUSE THIS NOTE ACCORDING TO THE SITE CONFIGURATION).
- NO LANDSCAPING IS PROPOSED AT THIS SITE. (REUSE THIS NOTE ACCORDING TO THE SITE CONFIGURATION).

SITE WORK & DRAINAGE

PART 1 - GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FRESH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

1. REFERENCES:

- DOT (STATE DEPARTMENT OF TRANSPORTATION) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
- ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
- OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

1.2 INSPECTION AND TESTING:

- FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR.
- ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONSIDERATION TO PROPER FLOWING OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUIRE TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.3 SITE MAINTENANCE AND PROTECTION:

- PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
- AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PREVENTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- KEEP SITE FREE OF ALL PONDING WATER.
- PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.
- PROTECT AND MAINTAIN ALL EXISTING FENCING, BARRICADES, WARNING SIGNS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- EXISTING UTILITIES DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN INDICATED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

- PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

PART 2 - PRODUCTS

- SUITABLE BACKFILL: ASTM D2151 (CLASS 1, 2, 3, 4, 5 OR 6) FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE WORKING MATERIAL UNSUITABLE FOR BACKFILL.
- NON-POROUS GRANULAR SUBGRADE AND BACKFILL: ASTM D2151 (CLASS 1, 2, 3, 4, 5 OR 6) COARSE AGGREGATE, FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE WORKING MATERIAL UNSUITABLE FOR BACKFILL.
- POROUS GRANULAR SUBGRADE AND BACKFILL: ASTM D2151 (CLASS 1, 2, 3, 4, 5 OR 6) COARSE AGGREGATE FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE WORKING MATERIAL UNSUITABLE FOR BACKFILL.
- SELECT STRUCTURAL FILL: GRANULAR FILL MATERIAL MEETING THE REQUIREMENTS OF ASTM D550-95 FOR USE AROUND AND UNDER STRUCTURES WHERE STRUCTURAL FILL MATERIAL ARE REQUIRED.
- GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2151 (CLASS 1, 2, 3, 4, 5 OR 6).
- COURSE AGGREGATE FOR ACCESS ROAD SUBGRADE: SAND CONFORM TO ASTM D2151 (CLASS 1, 2, 3, 4, 5 OR 6).
- UNSATURABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL > 40), MATERIAL CONTAINING LUMPY FROZEN LUMPS, DECOMPOSED ORGANIC MATERIAL, VEGETATIVE MATERIAL, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOLS CLASSIFIED BY ASTM AS PE, MH, CH, OH, ML, AND CL.
- GEOTEXTILE FABRIC: MANT 2000R OR APPROVED EQUIVA.
- PLASTIC WARNING TAPE: SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR WARNING AND LOCATING UNDERGROUND UTILITIES, 6 INCHES WIDE WITH A MINIMUM THICKNESS OF 500 MICH. TAPE SHALL HAVE MINIMUM STRENGTH OF 1500 PSI IN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL CONDUCTORS, FIBER BACKING OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3 FEET DEEP. THE METALLIC CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR PROVIDED WITH OTHER MEANS TO PROTECT IT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION UTILITIES.

PART 3 - EXECUTION

3.1 GENERAL:

- BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINAGE AT ANY TIME.
- BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- CLEAR AND DRILL THE AREA WITHIN THE LIMITS OF THE SITE, REMOVE TREES, BRUSH, STAMPS, BARBERS, AND OTHER DEBRIS AND VEGETATION FROM THE SITE OR FROM PROTECTING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
- REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STAMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE. EXCAVATED IN OR PROTECTING THROUGH THE GROUND SURFACE HAVE SOIL OR PLANT FROM THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
- REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. ADD MIXING TOPSOIL WITH SUBSOIL OR OTHER UNSUITABLE MATERIALS.
- EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.
- REMOVE FROM THE SITE AND DEPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

3.2 BACKFILL:

- AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXCAVATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEARED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
- WHenever the density testing indicates that the contractor has not obtained the specified density, the succeeding layer shall not be placed until the specification requirements are met unless otherwise authorized by the ENGINEER. HOWEVER, THE CONTRACTOR SHALL TAKE IMMEDIATE APPROPRIATE ACTION IS NECESSARY, SUCH AS DRYING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE MODIFIED PROCTOR TEST, ASTM D 1557.

3.3 TRENCH EXCAVATION:

- UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- EXTEND THE TRENCH WIDTH A MINIMUM OF 8 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTRIGGED SHOULDER.
- UNDER SOFT, YIELDING, OR OTHERWISE UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, BACKFILL AT THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE RE-EXCAVATION TESTING.
- PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 8-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SLOTTED PIPE AND SHAP BACKFILL INTO SPACE AROUND CONDUITS.
- PROTECT CONDUIT FROM LATER MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- ABOVE THE CONDUIT ENCASEMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE MODIFIED PROCTOR TEST, ASTM D 1557.
- ADDEQUATE ACCESS ROAD.
- CLEAR, GRUB, STRIP AND EXCAVATE FOR THE ACCESS ROAD TO THE LINES AND GRADES INDICATED ON THE DRAWINGS. SCANTY TO A DEPTH OF 6 INCHES AND PROOF-ROLL. ALL HOLE, RUTS, SOFT PLACES AND OTHER DEFECTS SHALL BE CORRECTED.
- THE FINISH SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE MODIFIED PROCTOR TEST, ASTM D 1557.
- AFTER PREPARATION OF THE SUBGRADE IS COMPLETE, THE GEOTEXTILE FABRIC (UNLESS SOLOID) SHALL BE INSTALLED TO THE LIMITS INDICATED ON THE DRAWINGS BY ROLLING THE FABRIC OUT LATERALLY ALONG THE HORIZONTAL. THE FABRIC SHALL NOT BE DRIVEN ACROSS THE SUBGRADE. PLACE THE ENTIRE ROLL IN A SINGLE OPERATION, ROLLING OUT AS SHOWN IN FIG. 100.00.

- OVERLAPS PARALLEL TO THE ROADWAY WILL BE PERMITTED AT THE CENTERLINE AND AT LOCATIONS BEYOND THE ROADWAY SURFACE WITH (1) WITHIN THE SHOULDER WIDTHS ONLY, NO LONGITUDINAL OVERLAPS SHALL BE LOCATED BETWEEN THE CENTERLINE AND THE SHOULDER. PARALLEL OVERLAPS SHALL BE A MINIMUM OF 3 FEET WIDE.
- TRANSVERSE (PERPENDICULAR TO THE ROADWAY) OVERLAPS AT THE END OF A ROLL SHALL OVERLAY IN THE DIRECTION OF THE AGGREGATE PLACEMENT (PREVIOUS ROLL ON TOP) AND SHALL HAVE A MINIMUM LENGTH OF 3 FEET.
- ALL OVERLAPS SHALL BE PINNED WITH STAPLES OR NAILS A MINIMUM OF 10 INCHES LONG TO INSURE PROPER POSITION OF AGGREGATE PLACEMENT OF AGGREGATE PER LONGITUDINAL SEAMS AT 25 FOOT CENTERS AND TRANSVERSE SEAMS EVERY 5 FEET.

Rev.	Description	Date
1	NOV 05	10-23-11
2	NOV 05	10-23-11



GENERAL NOTES
ENCANTO STANFORD (SKYLINE)
6758 AVIATION DRIVE
SAN DIEGO, CA 92121
LITE 3C (ANSI) / LITE 4C (PICS)



Project Number: _____
Drawn by: ERO/SP
Checked by: ERO
Date: 11/23/11

D. THE AGGREGATE BASE AND SURFACE COURSES SHALL BE CONSTRUCTED IN LAYERS NOT MORE THAN 4 INCH (COMPACTED) THICKNESS. AGGREGATE TO BE PLACED ON GEOTEXTILE FABRIC SHALL BE ENDOURED ON THE FABRIC FROM THE FREE END OF THE FABRIC OR OVER PREVIOUSLY PLACED AGGREGATE. THE FIRST LIFT SHALL BE BLENDED DOWN TO A THICKNESS OF 8 INCHES PRIOR TO COMPACTION. AT NO TIME SHALL CONDUITS BE COVERED TRANSPORTING THE AGGREGATE OR GRADING THE AGGREGATE. BE PERMITTED ON THE ROADWAY WITH LESS THAN 4 INCHES OF MATERIAL COVERING THE FABRIC.

E. THE AGGREGATE SHALL BE IMMEDIATELY COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE MODIFIED PROCTOR TEST, ASTM D 1557 WITH TAMPING ROLLER, OR WITH A PNEUMATIC-TIRED ROLLER, OR WITH A VIBRATORY MACHINE OR ANY COMBINATION OF THE ABOVE. THE TOP LAYER SHALL BE GIVEN A FINAL ROLLING WITH A THREE-WHEEL OR TANGOR ROLLER.

3.6 FINISH GRADING:

A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.

B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF PILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.

C. ACHIEVE FINISHED GRADE BY PLACING A MINIMUM OF 1/2" - 3/4" CRUSHED STONE ON TOP 20% STABILIZED FILL.

D. RETAIN ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

3.7 ASPHALT PAVING ROAD:

A. CHAPTER 630 - CALIFORNIA DEPARTMENT OF TRANSPORTATION FLEXIBLE PAVEMENT

B. DESIGN GUIDE AND STANDARDS FOR ROADWAY REHABILITATION PROJECTS (DIB 79-03)

ELECTRICAL NOTES

PART 1 - GENERAL

1.1 GENERAL CONDITIONS:

A. CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS DURING THE BID PERIOD IN REGARDS TO THE SUBCONTRACTOR'S FURNISHES THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION. NOT AFTER THE CONTRACT HAS BEEN AWARDED.

B. THE SUBCONTRACTOR SHALL OBTAIN PERMITS, LICENSES, HAVE ALL DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION PERFORMANCE FOR THE WORK UNDER THIS SECTION.

C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWING SHALL NOT BE SCALED TO OBTAIN DIMENSIONS.

1.2 LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. CONDUIT BENDS SHALL BE THE RADUS BEND FOR THE TRADE SIZE OF CONDUIT IN COMPLIANCE WITH THE LATEST EDITIONS OF NEC.

1.3 REFERENCES:

A. THE PUBLICATIONS LISTED BELOW ARE PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS OTHERWISE NOTED. EXCEPT AS INDICATED BY THE REQUIREMENT SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THESE PUBLICATIONS.

1. ANSI/NFPA (AMERICAN NATIONAL STANDARDS INSTITUTE)

2. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)

3. ICE (INSULATED CABLE ENGINEERS ASSOCIATION)

4. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)

5. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)

6. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)

7. UL (UNDERWRITERS LABORATORIES, INC.)

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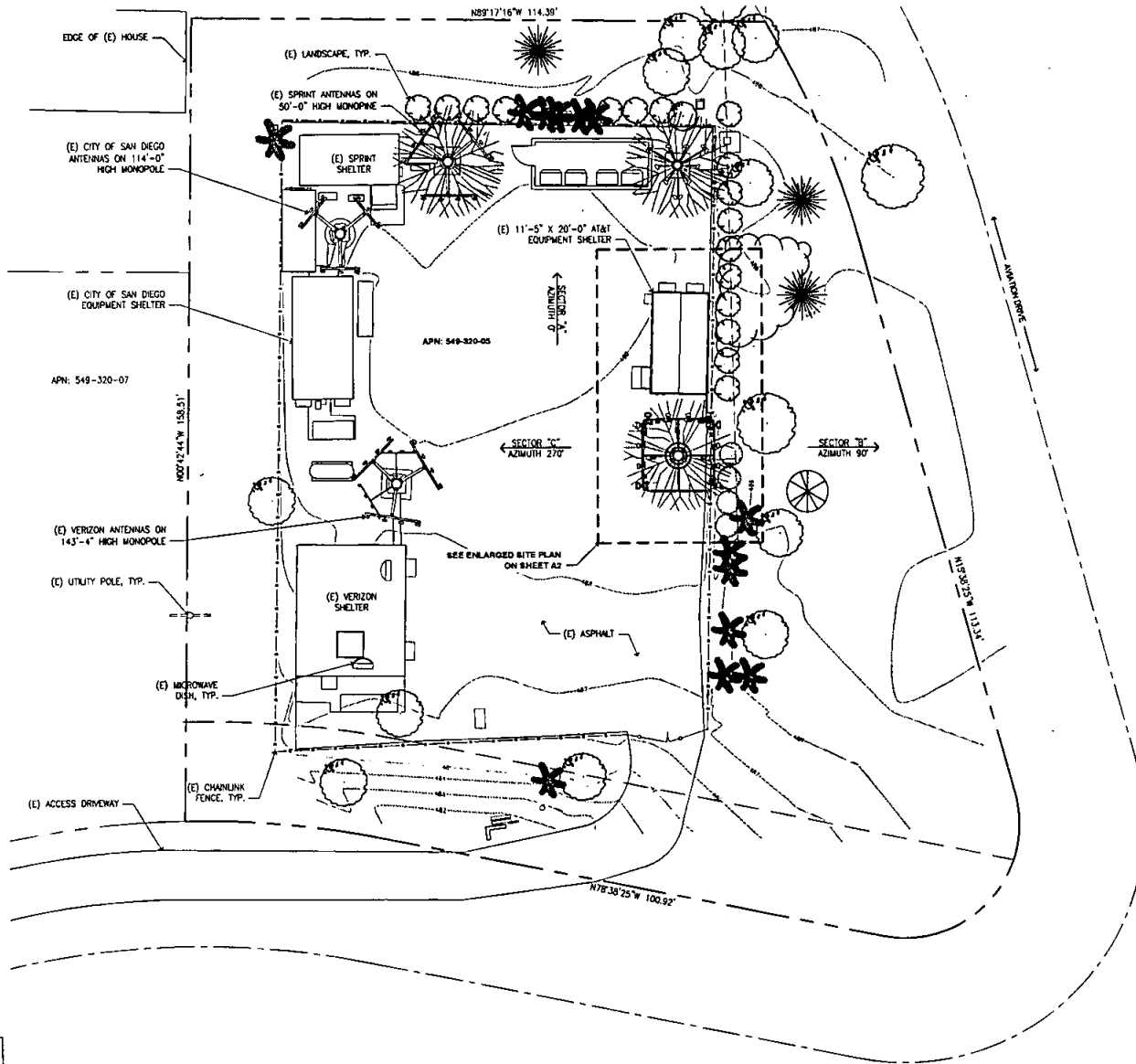
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NOTE:
THESE DRAWINGS HAVE BEEN CREATED BY INFORMATION
GATHERED AT THE SITE. (E) AS-BUILTS PROVIDED BY AT&T
AND WITHOUT A SURVEY. PLEASE VERIFY ALL DIMENSIONS,
LENGTHS, PROPERTY LINES AND CONDUIT RUNS.

1	50% CD	06-26-16
2	50% CD	06-27-16
3	Final	



SITE PLAN

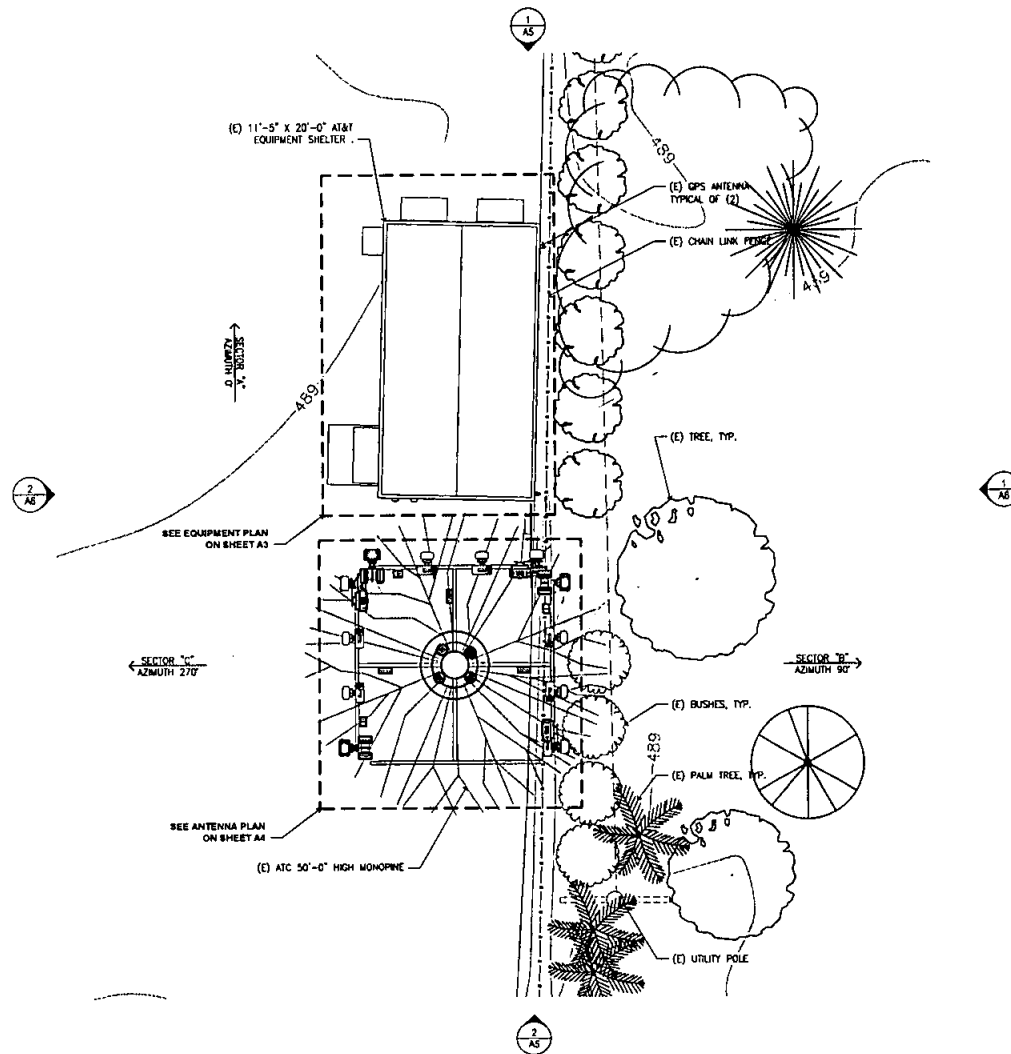
SD0563
ENCANTO STANDPIPE (SKYLINE)
6780 AVIATION DRIVE
SAN DIEGO, CA 92114
LTE 3C (AWS)/LTE 4C (MCS)



Project Number	
Drawn by	ENO/RP
Checked by	ENO
Sheet No.	A1

NOTES:

ALL BRANCHES MUST EXTEND A MINIMUM OF 24 INCHES BEYOND THE VERTICAL LENGTH OF EACH ANTENNA.



ENLARGED SITE PLAN 1/4" = 1'-0" 1

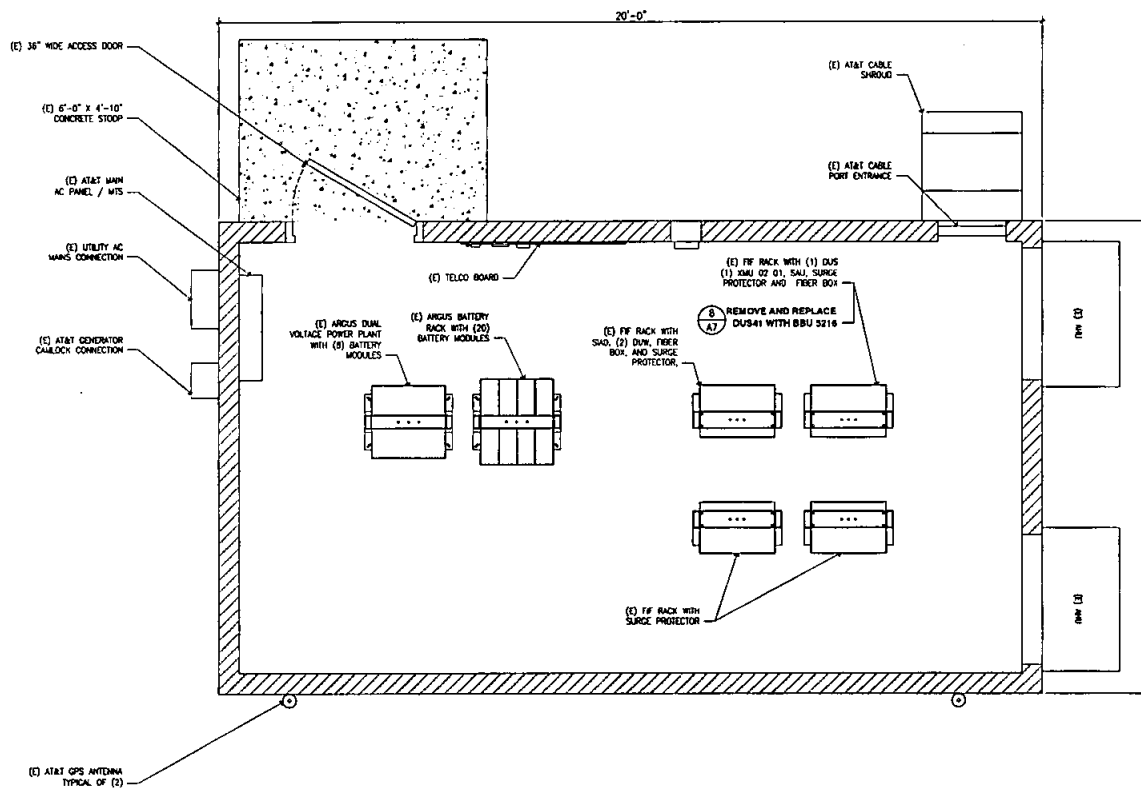
Rev	Description	Date
1	100% CD	10-29-18
2	80% CD	10-25-18



SD0563
ENCANTO STADIUM (SKYLINE)
6780 AVIATION DRIVE
SAN DIEGO, CA 92114
LTE 3C (AWS) / LTE 4C (NCS)



Project Number	
Drawn by	ERO/SP
Checked by	ERO
Sheet No.	A2



(E) ENLARGED EQUIPMENT PLAN 3/4" = 1'-0" 1

1	NOV 02	08-26-04
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100	NOV 02	08-26-04



EXISTING ENLARGED EQUIPMENT PLAN

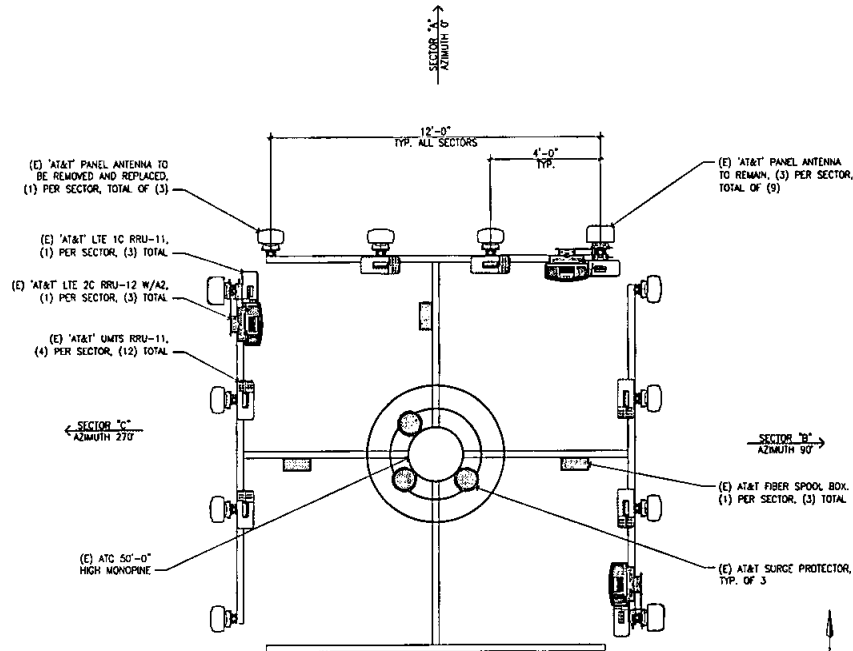
SD553
BICANTO STANDPIPE (SKYLINE)
6780 AVIATION DRIVE
SAN DIEGO, CA 92114
LTE 3C (WRS) / LTE 4C (WRS)



Project Number	
Drawn By	ENG/WR
Checked By	ENG
Issue for	
A3	

EXISTING ANTENNA AND TRANSMISSION CABLE SCHEDULE

SECTOR	TECHNOLOGY	ANTENNA			RRU MODEL / QTY.	TMA / FILTER MODEL / QTY.	TRANSMISSION LINES (SIZE / LENGTH FT +/- 5')
		MAKE / MODEL	AZIMUTH	TIP HEIGHT			
ALPHA SECTOR	A1 LTE 700 / LTE 1900	COMMSCOPE SDNHH-1065B	0°	44'-3"	RRU-11 (1), RRU-12 + A2 (1)	-	FIBER 180±
	A2 UITS 850 / 1900	KATHREIN 80010765	0°	44'-3"	RRU-11 (2)	-	FIBER 180±
	A3 UITS 850 / 1900	KATHREIN 80010765	0°	44'-3"	RRU-11 (2)	-	FIBER 180±
	A4 SPARE	KATHREIN 80010765	0°	44'-3"	-	-	-
BETA SECTOR	B1 LTE 700 / LTE 1900	COMMSCOPE SDNHH-1065B	90°	44'-3"	RRU-11 (1), RRU-12 + A2 (1)	-	FIBER 180±
	B2 UITS 850 / 1900	KATHREIN 80010765	90°	44'-3"	RRU-11 (2)	-	FIBER 180±
	B3 UITS 850 / 1900	KATHREIN 80010765	90°	44'-3"	RRU-11 (2)	-	FIBER 180±
	B4 SPARE	KATHREIN 80010765	90°	44'-3"	-	-	-
GAMMA SECTOR	C1 LTE 700 / LTE 1900	COMMSCOPE SDNHH-1065B	270°	44'-3"	RRU-11 (1), RRU-12 + A2 (1)	-	FIBER 180±
	C2 UITS 850 / 1900	KATHREIN 80010765	270°	44'-3"	RRU-11 (2)	-	FIBER 180±
	C3 UITS 850 / 1900	KATHREIN 80010765	270°	44'-3"	RRU-11 (2)	-	FIBER 180±
	C4 SPARE	KATHREIN 80010765	270°	44'-3"	-	-	-



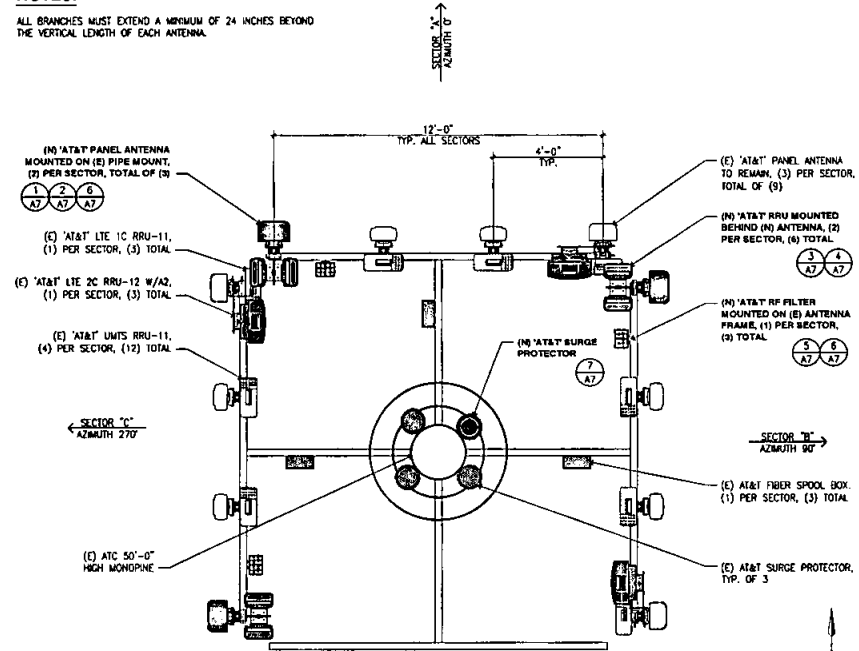
(E) ENLARGED ANTENNA PLAN 1/2\" = 1'-0\" 1

NEW ANTENNA AND TRANSMISSION CABLE SCHEDULE

SECTOR	TECHNOLOGY	ANTENNA			RRU MODEL / QTY.	TMA / FILTER MODEL / QTY.	TRANSMISSION LINES (SIZE / LENGTH FT +/- 5')
		MAKE / MODEL	AZIMUTH	TIP HEIGHT			
ALPHA SECTOR	A1 LTE 700 / LTE 1900	COMMSCOPE SDNHH-1065B	0°	44'-3"	RRU-11 (1), RRU-12 + A2 (1)	-	FIBER 180±
	A2 UITS 850 / 1900	KATHREIN 80010765	0°	44'-3"	RRU-11 (2)	-	FIBER 180±
	A3 UITS 850 / 1900	KATHREIN 80010765	0°	44'-3"	RRU-11 (2)	-	FIBER 180±
	A4 LTE AWR / LTE WCB	COMMSCOPE SBJAH4-1065B-DL	0°	44'-3"	RRU-32 (2)	WCS-IMFO-AMT-43 (1)	FIBER 180±
BETA SECTOR	B1 LTE 700 / LTE 1900	COMMSCOPE SDNHH-1065B	90°	44'-3"	RRU-11 (1), RRU-12 + A2 (1)	-	FIBER 180±
	B2 UITS 850 / 1900	KATHREIN 80010765	90°	44'-3"	RRU-11 (2)	-	FIBER 180±
	B3 UITS 850 / 1900	KATHREIN 80010765	90°	44'-3"	RRU-11 (2)	-	FIBER 180±
	B4 LTE AWR / LTE WCB	COMMSCOPE SBJAH4-1065B-DL	90°	44'-3"	RRU-32 (2)	WCS-IMFO-AMT-43 (1)	FIBER 180±
GAMMA SECTOR	C1 LTE 700 / LTE 1900	COMMSCOPE SDNHH-1065B	270°	44'-3"	RRU-11 (1), RRU-12 + A2 (1)	-	FIBER 180±
	C2 UITS 850 / 1900	KATHREIN 80010765	270°	44'-3"	RRU-11 (2)	-	FIBER 180±
	C3 UITS 850 / 1900	KATHREIN 80010765	270°	44'-3"	RRU-11 (2)	-	FIBER 180±
	C4 LTE AWR / LTE WCB	COMMSCOPE SBJAH4-1065B-DL	270°	44'-3"	RRU-32 (2)	WCS-IMFO-AMT-43 (1)	FIBER 180±

NOTES:

ALL BRANCHES MUST EXTEND A MINIMUM OF 24 INCHES BEYOND THE VERTICAL LENGTH OF EACH ANTENNA.



(N) ENLARGED ANTENNA PLAN 1/2\" = 1'-0\" 2

1	100% CD	10-20-18
2	90% CD	10-27-18
Rev.	Description	Date



EXISTING AND NEW
ENLARGED ANTENNA
PLAN AND SCHEDULE

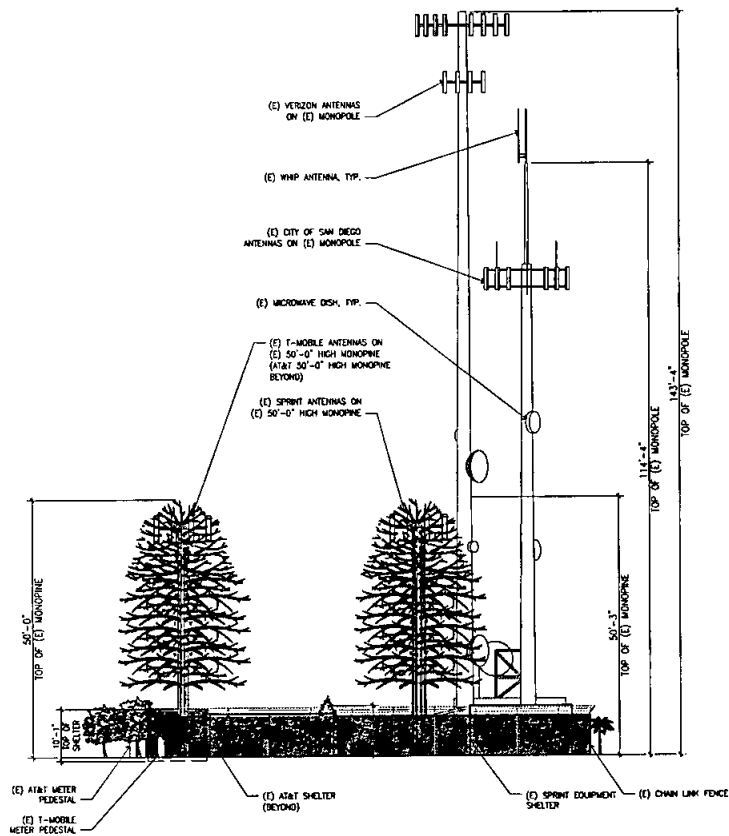
SD0563
ENCANTO STATION DRIVE
SAN DIEGO, CA 92114
LTE 3C (AWS) / LTE 4C (WCS)



Project Number
Drawn by: ERO/RP
Checked by: ERO
Sheet No.: A4

NOTES:

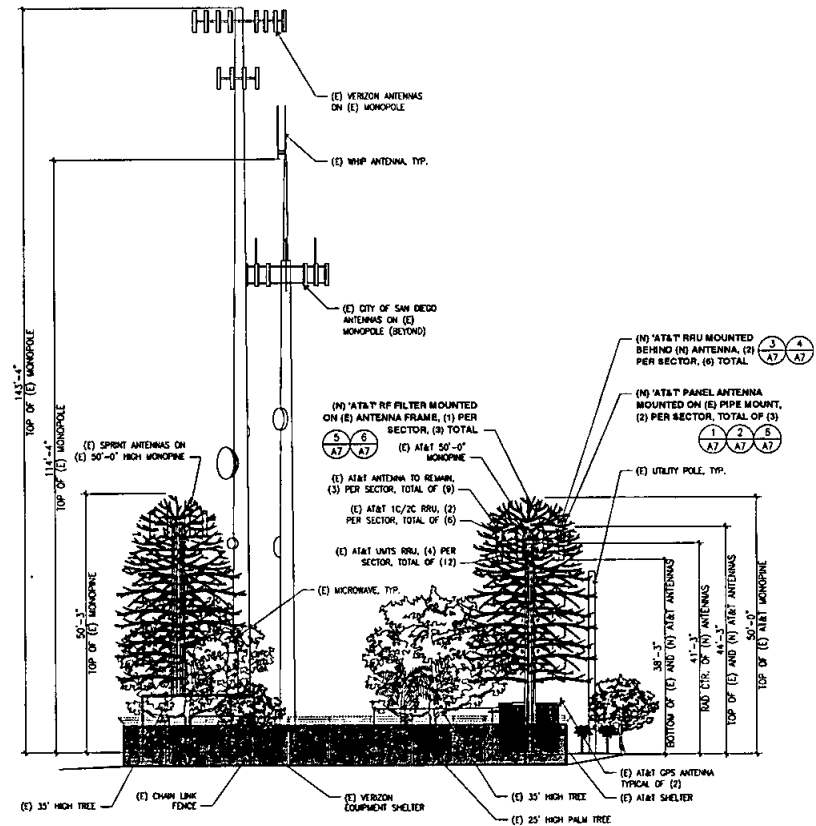
ALL BRANCHES MUST EXTEND A MINIMUM OF 24 INCHES BEYOND THE VERTICAL LENGTH OF EACH ANTENNA.



(N) NORTH ELEVATION 3/22" = 1'-0" 1

NOTES:

ALL BRANCHES MUST EXTEND A MINIMUM OF 24 INCHES BEYOND THE VERTICAL LENGTH OF EACH ANTENNA.



(N) SOUTH ELEVATION 3/22" = 1'-0" 2

Rev.	Description	Date
1	100% CD	10-28-18
2	90% CD	10-23-18



SD0563
ENCANTO STANDPIPE (SKYLINE)
6780 AVIATION DRIVE
SAN DIEGO, CA 92114
LTE 3C (AWS) / LTE 4C (WCS)

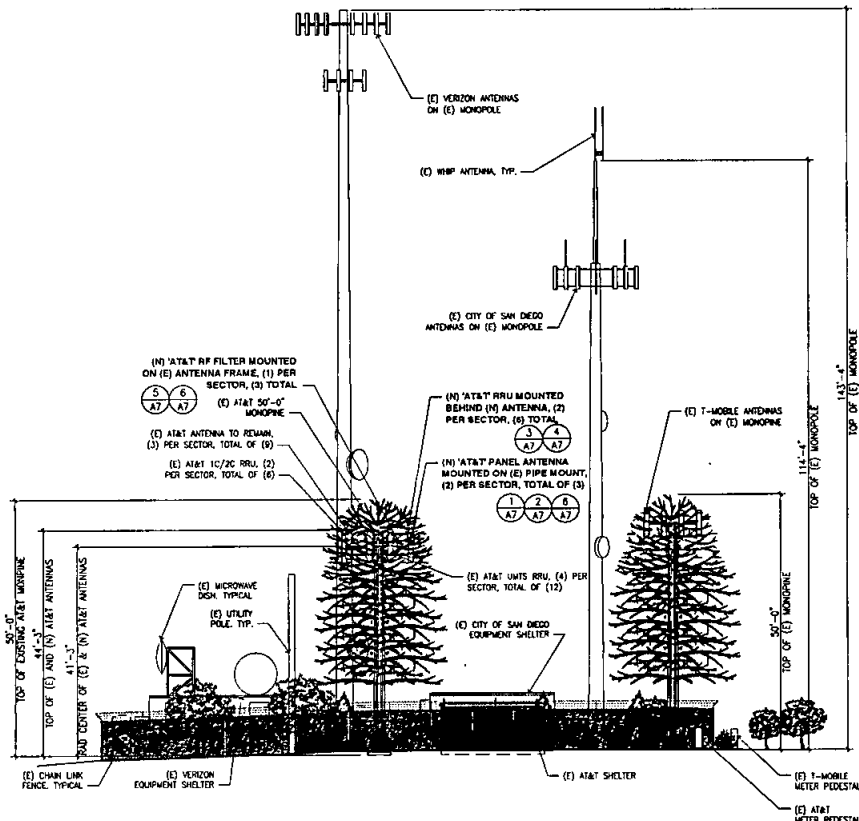


Project Name:
Drawn by: PRO/RO
Checked by: PRO
Issue No:

A5

NOTES:

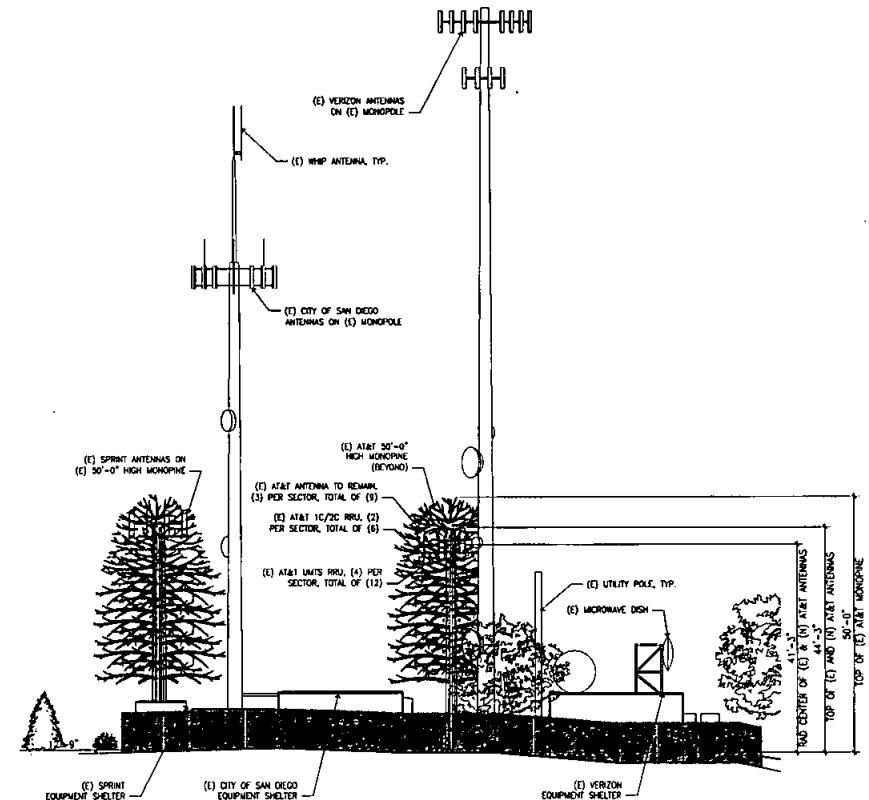
ALL BRANCHES MUST EXTEND A MINIMUM OF 24 INCHES BEYOND THE VERTICAL LENGTH OF EACH ANTENNA.



(N) EAST ELEVATION 3/22 = 1'-0" 1

NOTES:

ALL BRANCHES MUST EXTEND A MINIMUM OF 24 INCHES BEYOND THE VERTICAL LENGTH OF EACH ANTENNA.



(N) WEST ELEVATION 3/22 = 1'-0" 2

1	10/15/02	10/15/02
2	10/15/02	10/15/02
3	10/15/02	10/15/02
4	10/15/02	10/15/02
5	10/15/02	10/15/02
6	10/15/02	10/15/02
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10	10/15/02	10/15/02



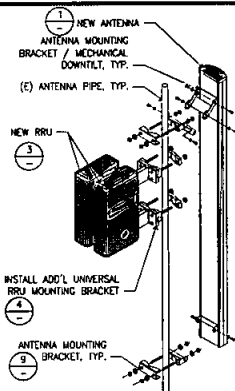
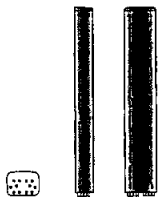
SD0563
ENCANTO STATION (SKYLINE)
6780 AVIATION DRIVE
SAN DIEGO, CA 92114
LTE 3C (AWS)/LTE 4C (MCS)



Project Number	
Drawn by	ERO/RP
Checked by	ERO
Drawn by	
A6	

COMMSCOPE SBJAH4-1D65B-DL

DIMENSIONS, WxDxH: 1828x350x208mm (72"x13.8"x8.2")
 NET WEIGHT: 26.8 kg (59.1 lbs)
 WIND LOADING, FRONTAL: 746.0 N @ 150 KM/H
 WIND LOADING, LATERAL: 243.0 N @ 150 KM/H
 WIND LOADING, REAR: 778.0 N @ 150 KM/H
 WIND SPEED, MAXIMUM: 241 KM/H | 150 MPH
 CONNECTOR: 12 x 4-3-10 (FEMALE)



(N) ANTENNA SPECIFICATIONS

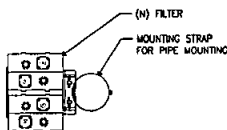
NTS 1

ANTENNA MOUNTING DETAIL

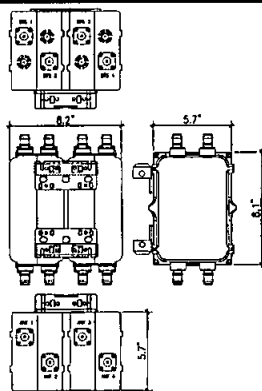
NTS 2

QUAD WCS IMF FOR 2360-2395 MHZ AMT BAND CO-LOCATION

MODEL NUMBER: WCS-IMF0-AMT
 PART NUMBER: E15167P73
 DIMENSIONS, WxDxH: 206x144x209 mm (8.1x 5.7 x 8.2 in)
 WEIGHT: W/O MOUNTING: 8 kg (17.6 lbs)
 W/ MOUNTING: 9.3 kg (20.4 lbs)
 FINISH: GRAY PAINT
 CONNECTORS, RF: 4-3-10 FEMALE
 GROUND TERMINAL DIAMETER, M4 (N): 5 (0.20)



MOUNTING



(N) QUAD WCS FILTER SPECIFICATIONS

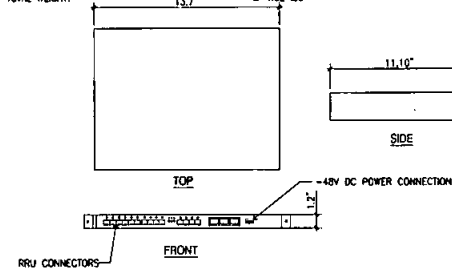
NTS 5

ERICSSON BBU 5216

DIMENSIONS, WxDxH: 350x282x30mm (13.7"x11.1"x1.2")

NOMINAL OPERATING VOLTAGE: 48 VDC

TOTAL WEIGHT: 13.7" ± 4.62 lbs

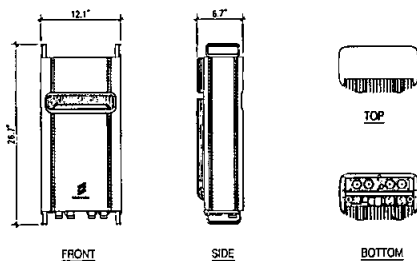


BBU 5216 SPECIFICATIONS

NTS 8

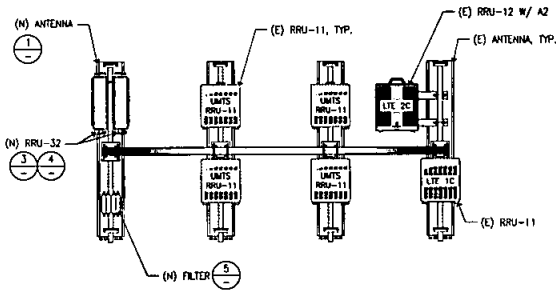
RRUS 32

DIMENSIONS, WxDxH: 12.1"x6.7"x26.7"
 WEIGHT (W/O MOUNTING HARDWARE): 24 kg/53 lbs
 OUTPUT POWER: 800W
 PORTS: CPRI 2 PORTS x 10 Gbps
 FREQUENCY: 832, 866



(N) RRU SPECIFICATIONS

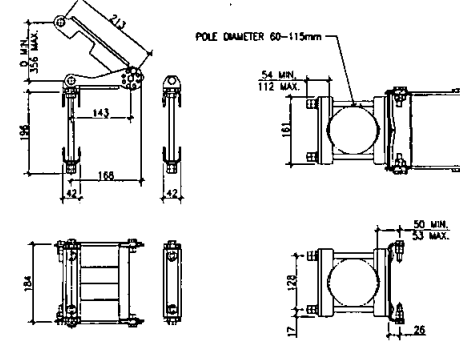
NTS 3



TYPICAL EQUIPMENT ELEVATION

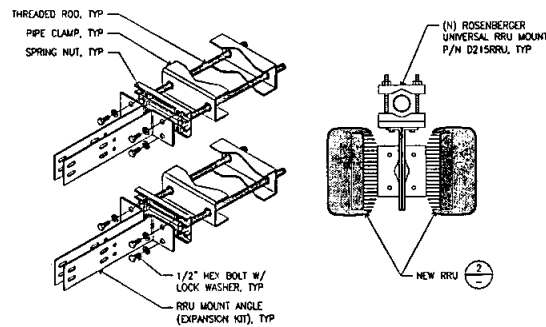
NTS 6

COMMSCOPE: 8SAMNT-1



ANTENNA MOUNTING BRACKET

NTS 9

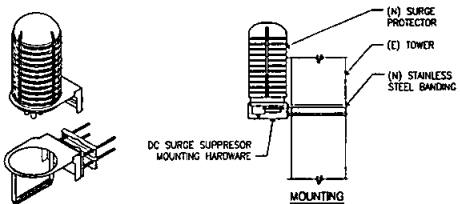


RRU MOUNTING

NTS 4

RAYCAP DC6-48-60-18-8F

DIMENSIONS, WxDxH: 280x170x794mm (11"x18.5"x31.25")
 NOMINAL OPERATING VOLTAGE: 48 VDC
 NOMINAL DISCHARGE CURRENT: 20 kA 8/20us
 MAXIMUM DISCHARGE CURRENT: 60 kA 8/20us
 MAXIMUM CONTINUOUS OPERATING VOLTAGE: 75 VDC
 VOLTAGE PROTECTION RATING: 400 V
 WIND LOADING: 150 MPH SUSTAINED (105.7 lbs)
 195 MPH GUST (213.6 lbs)
 TOTAL WEIGHT: 32.8 lbs



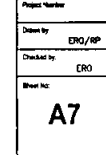
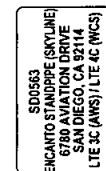
(N) SURGE PROTECTOR SPECIFICATIONS

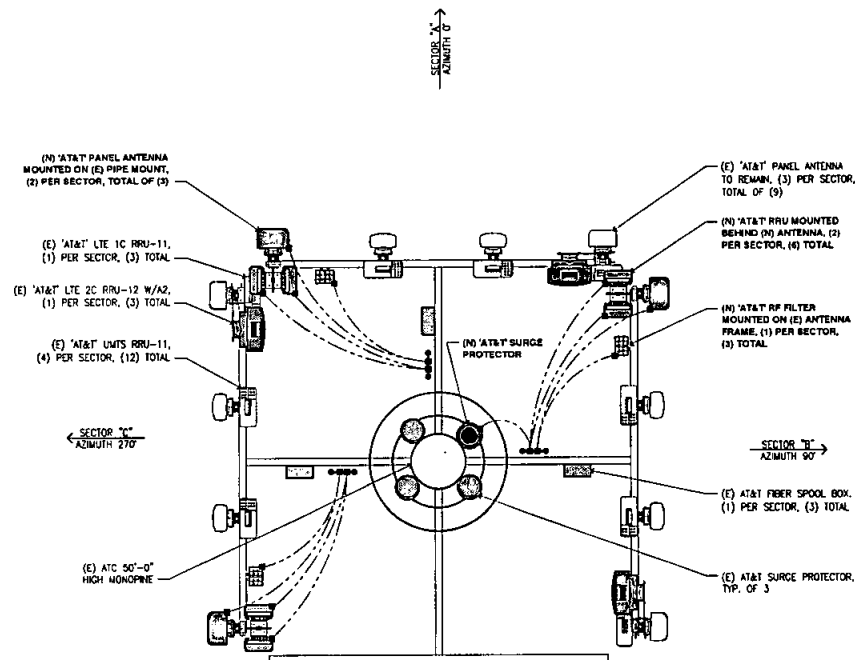
NTS 7

NOT USED

NTS 10

Rev	Description	Date
1	ISSUED	08-20-04
2	REVISED	08-21-04
3	REVISED	08-21-04





ANTENNA GROUNDING PLAN 1/2" = 1'-0" 1

TEST GROUND ROD WITH INSPECTION SLEEVE	GROUNDING CONDUCTOR	CHEMICAL ELECTROLYTIC GROUNDING SYSTEM	UNDERGROUND DUCT
EXOTHERMIC WITH INSPECTION SLEEVE	GROUNDING BAR	GROUND ROD WITH INSPECTION SLEEVE	ABOVE GROUND POWER

NOTES:

- GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
- THE SUBCONTRACTOR SHALL SUPPLY 'AT&T' WITH THE RESULTS FROM PRE-CONSTRUCTION AND POST-CONSTRUCTION OHM TESTING (GROUNDING) RESULTS ON ALL MODIFIED CELL SITES AND AS REQUIRED BY 'AT&T' STANDARD TP-76416.
- THE SUBCONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A 'TALL OF POTENTIAL' TEST ON THE PROPOSED SUPPLEMENTAL GROUNDING FIELD PRIOR TO FINAL CONNECTION OF THE GROUNDING SYSTEM TO EQUIPMENT. THE TEST SHALL BE PERFORMED BY A QUALIFIED AND CERTIFIED TESTING AGENT, PROVIDE INDEPENDENT TEST RESULTS TO THE PROJECT MANAGER FOR REVIEW. THE GROUNDING SYSTEM RESISTANCE TO EARTH GROUNDING SHALL NOT EXCEED FIVE (5) OHMS. IF THE GROUNDING TEST EXCEEDS THE MAXIMUM OF (5) OHMS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL GROUNDING RODS AND CONNECTIONS AS REQUIRED TO MEET THE (5) OHMS' MAXIMUM.
- THE INSPECTOR HAVING JURISDICTION SHALL INSPECT ALL GROUNDING CONNECTIONS FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BEFORE BEING PERMANENTLY CONCEALED.
- SUBCONTRACTOR SHALL GROUND ALL EQUIPMENT, INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WORKMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

EXOTHERMIC
COMPRESSION TYPE CONNECTIONS (TWO HOLE
LUG OR EQUIVALENT)

UNDERGROUND TELCO — UGT — UGT — UGT —
UNDERGROUND TELCO/POWER — UGT/P — UGT/P —

OVERHEAD POWER — OHP — OHP — OHP —
UNDERGROUND POWER — UGP — UGP — UGP —

ABOVE GROUND TELCO — AGT — AGT — AGT —
ABOVE GROUND TELCO/POWER — AGT/P — AGT/P —

GRAPHICS LEGEND NTS 2

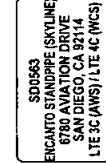
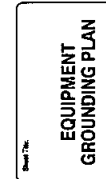
NOTES

- THE CONDUIT ROUTING ARE DIAGRAMMATICALLY SHOWN ON THE PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING SHALL BE FIELD VERIFIED.
- ALL ELECTRICAL EQUIPMENT AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMCOCO NAMEPLATES, INDICATING THE CIRCUITS ORIGIN AND ALL EQUIPMENT TERMINATIONS.
- SUBCONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND RET CONTROL CABLES. CABLE STRAIN-RELIEFS, CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- SUBCONTRACTOR SHALL PROVIDE ALL BREAKERS, CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETED SYSTEM AND SHALL BE IN COMPLIANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- WHEN TYPE 'TC-EP' CABLE IS UTILIZED IN THE ELECTRICAL SYSTEM, TYPE 'TC-EP' CABLE SHALL BE INSTALLED WITHIN A CABLE TRAY SYSTEM, CONDUIT SYSTEMS OR A COMBINATION OF BOTH AND SHALL BE ELECTRICALLY CONTINUOUS. ALL RACEWAYS SHALL BE APPROVED FOR THEIR PURPOSE.

ABBREVIATIONS

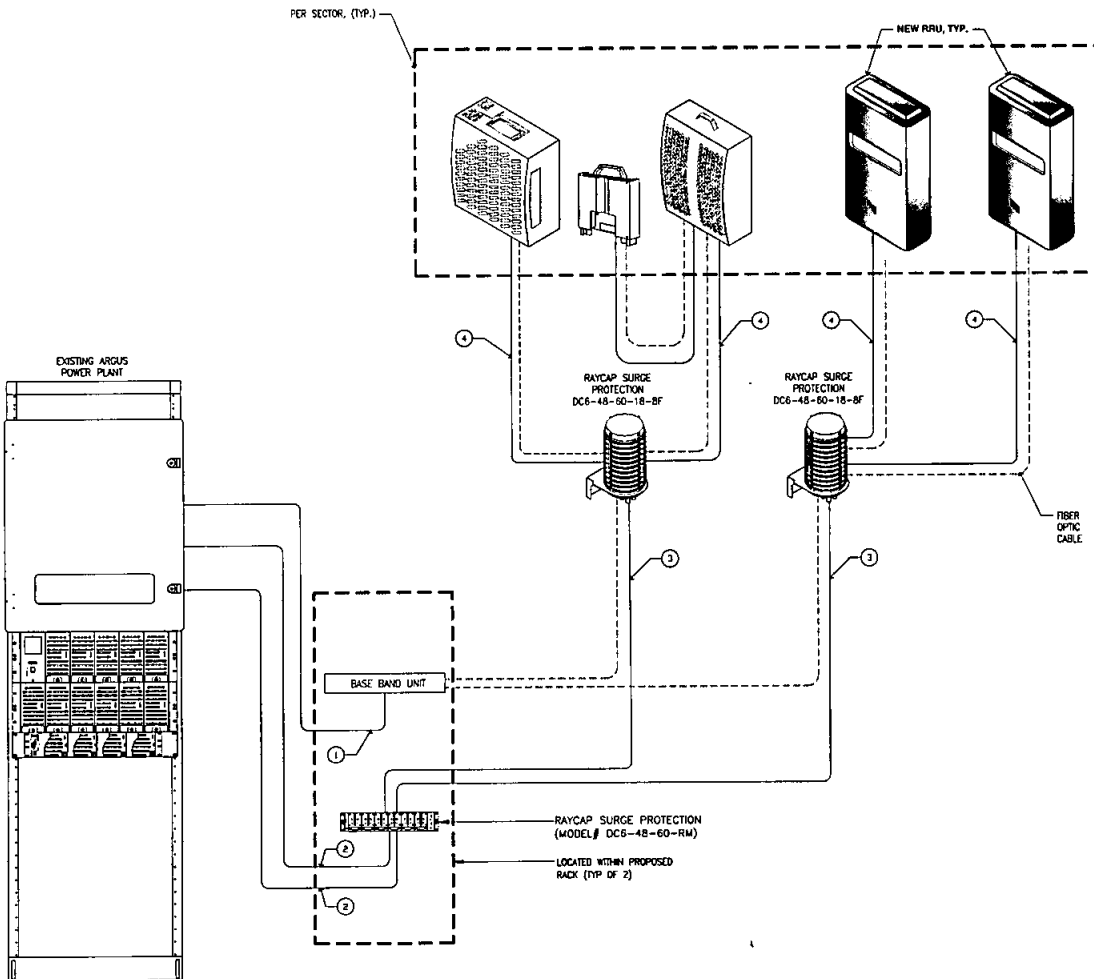
AC	ALTERNATING CURRENT
AC	AMPERAGE INTERRUPTION CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BTC	BARE TINNED COPPER CONDUCTOR
BATT	BATTERY
CHG	CHARGING
COMM	COMMON
DC	DIRECT CURRENT
Ø	DIAMETER
DWG	DRAWING
EC	ELECTRICAL CONDUCTOR
EWT	ELECTRICAL METALLIC TUBING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
HVAC	HEAT/VENTILATION/AIR CONDITIONING
IGR	INTERIOR GROUNDING RING (HALO)
MGB	MASTER GROUNDING BAR
MIN	MINIMUM
M/W	MICROWAVE
MTS	MANUAL TRANSFER SWITCH
NEC	NATIONAL ELECTRICAL CODE
OC	ON CENTER
PP	POLARIZING PRESERVING
PCU	PRIMARY CONTROL UNIT
PDU	PROTOCOL DATA UNIT
RECT	RECTIFIER
RMC	RIGID METALLIC CONDUIT
RHH	REMOTE RADIO HEAD
RNY	RACEWAY
SIAD	SMART INTEGRATED ACCESS DEVICE
TVSS	TRANSIENT VOLTAGE SUPPRESSION SYSTEM
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SOURCE

1	100% CD	10-20-01
2	100% CD	10-21-01
Rev.	Description	Date



Project Number: _____
 Drawn by: ERO/MP
 Checked by: ERO
 Sheet No: **E1**

DC CIRCUIT SCHEDULE			
	BREAKER	FROM	TO
1	15A / 1P	--ABDC DISTRIBUTION PANEL	LTE BASE BAND UNIT
2	20A / 1P	--ABDC DISTRIBUTION PANEL	RAYCAP SURGE PROTECTION DC6-48-60-0-RM
3	N/A	RAYCAP SURGE PROTECTION DC6-48-60-0-RM	RAYCAP SURGE PROTECTION DC6-48-60-18-BF
4	N/A	RAYCAP SURGE PROTECTION DC6-48-60-18-BF	RRH REMOTE RADIO HEAD

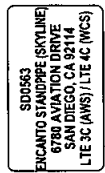


ELECTRICAL DC ONE-LINE DIAGRAM NTS 1

ELECTRICAL GENERAL NOTES

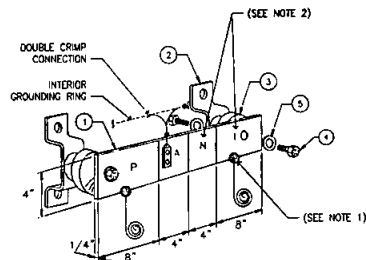
- THE DRAWINGS REPRESENT THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK. DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC. TO SUIT FIELD CONDITIONS IS REQUIRED.
- REVIEW ALL ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS, AND/OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE NOT REPORTED, THE CONTRACTOR SHALL BID THE GREATER QUANTITY OR BETTER QUALITY, AND APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD.
- THE DRAWINGS DO NOT INDICATE THE ACTUAL METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SUPERVISING AND DIRECTING ALL CONSTRUCTION WORK, MEANS, METHODS, TECHNIQUES, AND SEQUENCES.
- ALL (E) JOB SITE CONDITIONS, DIMENSIONS, AND SERVICE REQUIREMENTS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE START OF CONSTRUCTION AND/OR FABRICATION OF MATERIALS. ANY DISCREPANCIES ENCOUNTERED SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR CLARIFICATION.
- CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND WORKMEN THE CLOSURE, PATCH, REPAIR OR REPLACEMENT OF ALL OPENINGS WHERE ITEMS HAVE BEEN REMOVED OR OPENED AS REQUIRED TO COMPLETE NEW WORK.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC), GOVERNMENT LAWS, ORDINANCES, RULES AND REGULATIONS ADOPTED BY THE LOCAL AUTHORITY, FEDERAL, STATE, AND LOCAL CODES HAVING JURISDICTION, AND LOCAL FIRE MARSHALL, IN THE EVENT OF CONFLICT BETWEEN THE ABOVE AUTHORITIES AND THESE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE SHALL GOVERN.
- ALL WORK SHALL BE DONE IN THE BEST POSSIBLE MANNER AND WORKMANSHIP BASED ON STANDARD CONSTRUCTION PRACTICES.
- ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A COMPLETELY WIRED AND OPERATIONAL ELECTRICAL SYSTEM AND PROVIDE ALL NECESSARY FINAL CONNECTIONS TO ALL EQUIPMENT.
- CONDUIT ROUTING SHOWN ON DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT ROUTING OF CONDUIT SHALL BE DETERMINED BY THE CONTRACTOR, ANY ADDITIONAL COST REQUIRED BY THE ROUTING OF ADDITIONAL CONDUITS SHALL BE INCURRED BY THE ELECTRICAL CONTRACTOR.
- ALL EQUIPMENT AND MATERIALS FURNISHED, DELIVERED, AND INSTALLED SHALL BE NEW, IN PERFECT CONDITION, IN UNOPENED MANUFACTURER'S ORIGINAL CONTAINERS, AND OF THE HIGHEST QUALITY. STANDARD PRODUCTS SHALL BE FROM MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH EQUIPMENT AND MATERIALS, AND SHALL BE OF THE LATEST STANDARD DESIGN. MATERIAL AND EQUIPMENT SHALL BEAR APPROVAL BY U.L. LISTING AND OTHER APPROPRIATE AGENCIES.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL FIRE-RATED WALLS, CEILING AND ROOF ASSEMBLIES PENETRATED, ALL CORING, CUTTING, PATCHING, AND REFINISHING OF WALLS, SURFACES AND OPENINGS PENETRATED OR AFFECTED BY HIS INSTALLATION SHALL BE SEALED WITH U.L. LISTED SEALANT AT ALL PENETRATIONS. FURNISH AND INSTALL APPROVED EXPANSION FITTING WHERE RACEWAY CROSSES AN EXPANSION JOINT. HOWEVER, NO CUTTING AND/OR PENETRATION OF WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE ARCHITECT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND ADEQUATE LIGHTING AS REQUIRED.
- FURNISH AND INSTALL PULL WIRE IN ALL EMPTY CONDUITS AND AUXILIARY SYSTEMS, TELEPHONE, SECURITY, FIRE ALARM SYSTEMS, DATA, AND TELEVISION, ETC. VERIFY PULL WIRE REQUIREMENTS WITH OTHER SYSTEM VENDORS. CAP ALL EXPOSED CONDUIT ENDS.
- ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE WEATHERPROOF TYPE, NEMA 3R.
- WHERE DISCONNECT SWITCHES ARE UNABLE TO BE MOUNTED DIRECTLY TO THE EQUIPMENT, THE CONTRACTOR SHALL PROVIDE AN APPROVED STRUCTURAL SOUND INDIVIDUAL MOUNTING SUPPORT. NO MODIFICATION SHALL BE DONE THAT WILL COMPROMISE THE U.L. LISTING OR MANUFACTURER'S REQUIREMENTS OF THE EQUIPMENT.
- CONTRACTOR RESPONSIBLE FOR PAYING ALL PERMITS AND APPLICABLE FEES RELATIVE TO THE CONSTRUCTION OF THIS PROJECT.
- MECHANICAL SPLIT SYSTEM HVAC UNITS INSTALLED IN ENCLOSED AREAS, CONTRACTOR TO PROVIDE AN APPROVED LAMP RECEPTACLE, A LIGHT SWITCH NEAREST TO ENCLOSURE OPENING AND A RECEPTACLE OUTLET NEXT TO FAN COIL UNIT AND CONNECT TO NEAREST RECEPTACLE CIRCUIT. PROVIDE NECESSARY CONTROLS, CONTACTORS, AND OVERCURRENT PROTECTION TO FAN COIL PER MANUFACTURER'S RECOMMENDATIONS.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SIZING ALL CONDUIT PER NATIONAL ELECTRICAL CODE (NEC), WHERE DRAWINGS SHOW ONLY CONDUCTOR SIZE AND QUANTITY.
- CONTRACTOR SHALL MAINTAIN GROUND CONTINUITY TO EVERY OUTLET PER N.E.C. TABLE 250-122. PROVIDE A GREEN CONDUCTOR (NOT INDICATED) IN EACH RACEWAY. SIZE OF GROUNDING CONDUCTOR PER NEC ART 250.
 - THHN/THWN-2 INSULATION FOR ALL BRANCH CIRCUIT WIRING & CONTROL CIRCUIT WIRING.
 - THHN-2 USED FOR ALL PANEL FEEDERS AND SERVICE CONDUCTORS.
 - THHN/THWN-2 INSULATION TYPE SHALL BE USED WHERE CONDUCTORS ARE INSTALLED IN CONDUITS EXPOSED TO THE WEATHER.
- ALL UNDERGROUND CONDUITS SHALL BE PVC OR PVC RGS. IN A TRANSITIONAL RISER, ALL PARTS OF THE CONDUIT SYSTEM THAT IS BELOW GRADE SHALL BE RGS WRAP WITH 10 MIL TAPE UP TO 6" ABOVE GRADE.

1	15A / 1P	15A-1P
2	20A / 1P	20A-1P
3	N/A	
4	N/A	



Project Number: _____
 Drawn by: ERO/JP
 Checked by: ERO
 Sheet No: E2

NEWTON INSTRUMENT COMPANY, INC. BUTNER, N.C.			
NO	REQUIRED	PART NUMBER	DESCRIPTION
1	1	1/4"x2"x24"	SOLID GROUNDING BAR
2	2	A-6056	WALL MOUNTING BRACKET
3	2	3061-4	INSULATORS
4	4	3012-1	5/8"-11x1" P.H.E.S.
5	4	3015-B	5/8" LOCKWASHER



EACH GROUNDING CONDUCTOR TERMINATING ON ANY GROUNDING BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION

SECTION "P" - SURGE PROTECTORS

(EC) CELL REFERENCE GROUNDING BAR (IF COLLOCATED)
(EC) GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
(EC) TELCO GROUNDING BAR (#2 AWG)
(EC) COMMERCIAL POWER COMMON NEUTRAL/GROUNDING BOND (3/0)
(EC) FIBER GROUNDING BAR (#2 AWG)
(EC) POWER ROOM REFERENCE GROUNDING BAR (#2 AWG)
(AT&T) RECTIFIER FRAMES

SECTION "A" - SURGE ABSORBERS

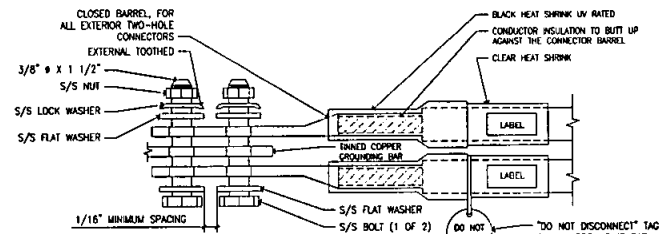
(EC) INTERIOR GROUNDING RING (#2 AWG)
(EC) EXTERNAL EARTH GROUNDING FIELD (BURIED GROUNDING RING) (#2 AWG)
(EC) METALLIC COLD WATER PIPE (IF AVAILABLE) (1/0 AWG)
(EC) BUILDING STEEL (IF AVAILABLE) (1/0 AWG)

SECTION "N" - NON-ISOLATED GROUNDING ZONE EQUIPMENT

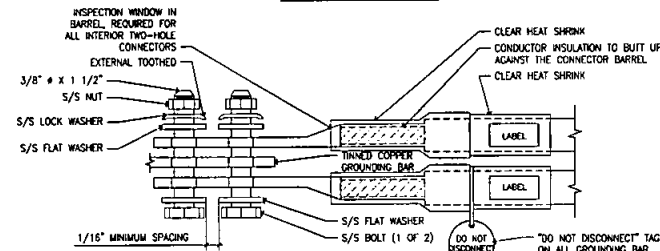
(EC) MISC NON-ISOLATED GROUNDING ZONE EQUIPMENT (AT&T)-48V POWER SUPPLY RETURN BARE

SECTION "I" - ISOLATED GROUNDING ZONE

(AT&T) ALL ISOLATED GROUNDING REFERENCE
(AT&T) GROUNDING WINDOW BAR



EXTERIOR TWO HOLE LUG



INTERIOR TWO HOLE LUG

(MGB) REFERENCE GROUNDING BAR

NTS

1

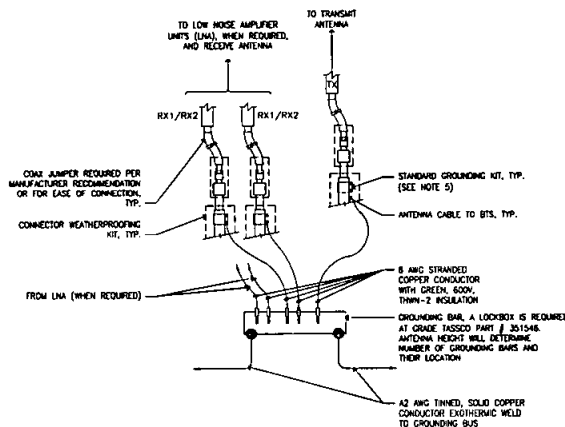
TWO HOLE LUG

NTS

2

NOTES:

- EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- ALL GROUNDING BARS SHALL BE STAMPED IN TO THE METAL "IF STOLEN DO NOT RECYCLE." THE CONTRACTOR SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "I") WITH 1" HIGH LETTERS.
- ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTIOXIDANT COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTIOXIDANT COMPOUND BEFORE MATING.
- DO NOT INSTALL CABLE GROUNDING KIT AT A BEND AND ALWAYS DIRECT GROUNDING CONDUCTOR DOWN TO GROUNDING BUS.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, 600 VOLT INSULATION, ON ALL GROUNDING TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
- SUPPLIED AND INSTALLED BY CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUNDING BAR AS REQUIRED, PROVIDING SUFFICIENT CONNECTION POINTS.



GROUNDING NOTES

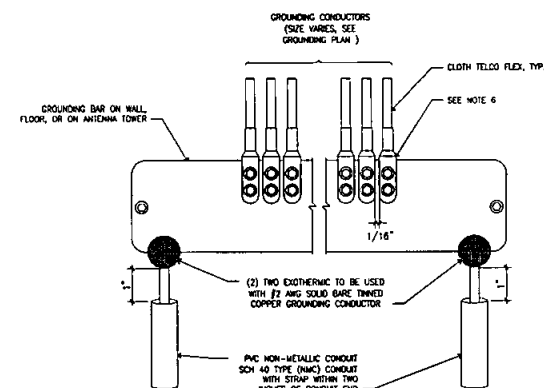
NTS

3

ANTENNA GROUNDING BAR

NTS

4

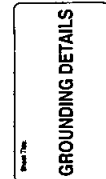


GROUNDING CONDUCTOR TO GROUNDING BAR

NTS

5

1	100% CD	10-23-18
2	80% CD	10-27-18
Rev.	Description	Date



SD0563
ENCANTO STADIUM (SKYLINE)
6780 AVIATION DRIVE
SAN DIEGO, CA 92114
LTE 3C (AWS) / LTE 4C (NCS)



Project Number	
Drawn by	ERO/RP
Checked by	ERO
Sheet No.	E3