

 Real Estate
Assets
City Consent Application

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

7/24/17

Date

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

RE: Site Name: SD0735 Balboa Golf Course Project #
Site Address: 2600 "B" Pershing Drive, San Diego, San Diego (the "Property")
Agreement: Agreement dated 9/26/2011 (the "agreement") between The City of San
Diego ("City") and New Cingular Wireless, ("Lessee" or "Permittee").

AT&T Mobility is seeking Consent from the City to perform the following to the above
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:

AT&T proposes to modify an existing wireless facility. Remove and replace (3) 8' panel antennas. Remove (6) RRUS with A2 packs and replace with (6) RRU units at the antenna level. Add (6) RRUs at the antenna level. Install (2) RBS 6601's inside the existing LTE rack.

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 Mobility would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, James Stephenson, agent for AT&T Mobility

Applicant Signature: [Signature]

☐ A one-time, **non-refundable Processing Fee** (\$4,920 for long term agreements - \$980 for Short term or ROE Permits) payable to "City Treasure", MUST be paid within 1 week of feasibility walk. This fee applies even if the agreement is never executed.

City Golf - 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.

8/4/17 John Howard / Golf Course Manager [Signature]
Date Print Name & Title Signature

City of San Diego, acknowledgement and consent for 2600 Pershing Dr.
Site Location

8/7/17 CYNTHIA MURPHY, UPLC [Signature]
Date Print Name & Title Signature

- ☐ Approved and Stamped plans received and attached
☐ Scan as Amendment to Agreement



Real Estate Assets



APPROVAL	DATE	SIGNATURE
P.M. :		
C.M. :		
S.A.C. :		
R.F. :		
ZONING :		

SITE NUMBER: SD0735 (LTE 5C / 6C / ANTENNA MOD AWS / PCS)

SITE NAME: BALBOA PARK GOLF COURSE

USID: 129315

FA LOCATION CODE: 10151039

DRAWING INDEX (CONSTRUCTION)	REV.	DIRECTIONS	DEVELOPMENT SUMMARY								
T01 TITLE SHEET T02 GENERAL NOTES, SITE DEVELOPMENT NOTES, LEGENDS & ABBREVIATIONS T03 PHOTO-SIMS A01 SITE PLAN AND EXISTING EQUIPMENT LAYOUT PLAN A02 ANTENNA LAYOUT PLAN A03 ELEVATIONS D01 RF CONFIGURATIONS AND DETAILS D02 DETAILS E01 ELECTRICAL NOTES, ABBREVIATIONS AND SYMBOLS E02 RRU GROUNDING PLAN, GROUNDING NOTES AND DETAILS	0 0 0 0 0 0 0 0 0 0 0 0	FROM AT&T SAN DIEGO OFFICE 1. START OUT GOING WEST ON TRADE ST. TOWARD CAMINO SANTA FE. 2. TAKE THE 1ST LEFT ONTO CAMINO SANTA FE. 3. TURN RIGHT ONTO MIRAMAR RD. 4. CONTINUE ONTO LA JOLLA VILLAGE DR. 5. SLIGHT LEFT TO STAY ON LA JOLLA VILLAGE DR. 6. SLIGHT RIGHT ONTO THE 1-5 S RAMP. 7. FOLLOW 1-5 TO PERSHING DR. TAKE PERSHING DR EXIT FROM 1-5 SOUTH. 8. TURN RIGHT ONTO 1-5 SOUTH. 9. EXIT ONTO PERSHING DR. 10. MERGE ONTO PERSHING DR. 11. 2101 PERSHING DR. IS ON THE RIGHT.	PROJECT SCOPE OF WORK: 1. REMOVE (3) EXISTING 8' ANTENNAS AND REPLACE WITH (3) NEW 8' PANEL ANTENNAS 2. REMOVE (6) EXISTING REMOTE RADIO UNITS (RRU) WITH A2 PACK AND REPLACE WITH (6) NEW REMOTE RADIO UNITS AT THE ANTENNA LEVEL. 3. ADD (6) NEW REMOTE RADIO UNITS (RRU) AT THE ANTENNA LEVEL. 4. INSTALL (2) NEW RBS 6601 INSIDE EXISTING LTE RACK.								
10 SHEETS TOTAL		VICINITY MAP 	BOXED BELOW IS A LIST OF DEVELOPMENT REGULATION DEVIATIONS, AND THE REQUIRED PERMITS/APPROVALS, N/A IF LEFT BLANK: 								
CODE COMPLIANCE			PROPERTY INFORMATION: LEGAL DESCRIPTION: MM0036 LOT 1144*1055.12 AC M/L IN LOTS 1129-1131&1135-1137&1142&1143&6N. ASSESSOR PARCEL NUMBER: 534-450-08-00 EXISTING LEASE AREA: 247 SQ. FT. PROPERTY OWNER: OWNER: CITY OF SAN DIEGO ADDRESS: 1200 THIRD AVE. SUITE 1700 SAN DIEGO, CA 92101 CONTACT: ENZA CHARLES PHONE: (619) 238-6052 ZONING INFORMATION: JURISDICTION: CITY OF SAN DIEGO ZONING DESIGNATION: RS-1-14 LATITUDE: 32° 43' 44.9" N LONGITUDE: 117° 08' 30.01" W TOP OF (I) STRUCTURE: - AGL BASE OF STRUCTURE: - (A.M.S.L.)								
1. 2016 CALIFORNIA ADMINISTRATIVE CODE (CAC) 2. 2016 CALIFORNIA BUILDING CODE (CBC); VOLUMES 1 & 2 3. 2016 CALIFORNIA ELECTRICAL CODE 4. 2016 CALIFORNIA MECHANICAL CODE (CMC) 5. 2016 CALIFORNIA ENERGY CODE 6. 2016 CALIFORNIA FIRE CODE (CFC) 7. 2016 CALIFORNIA GREEN CODE 8. 2016 CALIFORNIA REFERENCES STANDARDS CODE ** NOTE: ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THESE CODES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.			EXISTING WCFs ON SAME PROPERTY: SPRINT BUILDING CODE INFORMATION: OCCUPANCY = B & U CONSTRUCTION TYPE = V-B PROJECT TEAM: CONSTRUCTION: TIM HENSON PHONE: (503) 519-8561 SITE ACQUISITION: CATHLYN KES PHONE: (858) 527-9938 PLANNING: JAMES STEPHENSON PHONE: (619) 729-4565 ARCHITECT: D.K. DO, RA PHONE: (949) 475-1000								
 7337 TRADE STREET, 3 EAST, ROOM 3084 SAN DIEGO, CA 92121-4202		 BALBOA PARK GOLF COURSE SD0735 (LTE 5C/6C ANTENNA MOD AWS/PCS) 2600 PERSHING DRIVE SAN DIEGO, CA 92101	 DCI PACIFIC A/E/C WORKS ARCHITECTURE ENGINEERING CONSULTING 32 EXECUTIVE PARK SUITE 110 IRVINE CA 92614 								
		<table><tr><td colspan="2">SHEET TITLE</td><td colspan="2">SHEET NUMBER</td></tr><tr><td colspan="2">TITLE SHEET</td><td colspan="2">T01</td></tr></table>		SHEET TITLE		SHEET NUMBER		TITLE SHEET		T01	
SHEET TITLE		SHEET NUMBER									
TITLE SHEET		T01									
SCALE AS SHOWN		DESIGNED DRAWN									

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS ARE USED ON THESE DRAWINGS

APPROX.	APPROXIMATE
ABV.	ABOVE
AL.	ALUMINUM
ASPH.	ASPHALT
AWG	AMERICAN WIRE GAUGE
BCH	BARE COPPER WIRE
BTS	BASE TRANSMISSION STATION
CAB.	CABINET
CONC.	CONCRETE
CONT.	CONTINUOUS
DA.	DIAMETER
DWG.	DRAWING
EGR.	EQUIPMENT GROUND BAR
EA.	EACH
ELECT.	ELECTRICAL
EL.	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
EQ.	EQUAL
EQUIP.	EQUIPMENT
GA.	GAUGE
GALV.	GALVANIZED
GEN	GENERATOR
GRND	GROUND
IR	INTERIOR GROUND RING (HALO)
INC	INTERMEDIATE METALLIC CONDUIT
MAX.	MAXIMUM
MECH.	MECHANICAL
MFR.	MANUFACTURER
MOB	MASTER GROUND BAR
MIN.	MINIMUM
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
PCS	PERSONAL COMMUNICATION SYSTEM
PVC	POLYVINYL CONDUIT
RIG	RIGID GALVANIZED STEEL
SF.	SQUARE FOOT
SH.	SHEET
SS	STAINLESS STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VF	VERIFY IN FIELD
WWF	WELDED WIRE FABRIC

SITE LEGENDS

—X—X—X—	PROPERTY LINE
—X—X—X—	FENCE LINE
—E—	POWER SERVICE
—T—	TELEPHONE SERVICE
—E/T—	POWER/TEL SERVICES
—[50]—	PROPOSED CONTOUR
—50—	EXISTING CONTOUR
—A—	COAX CABLE
—[]—	CIRCUIT BREAKER
—[]—	CADWELD TYPE CONNECTION
—[]—	COMPRESSION TYPE CONNECTION
—G—	GROUNDING WIRE
—[X]—	REPRESENTS DETAIL NUMBER
—[X]—	REF. DRAWING NUMBER

SYMBOLS AND MATERIAL

—[X]—	DETAIL REFERENCE
—[X]—	SECTIONS AND DETAILS
—[X]—	CONCRETE
—[X]—	EARTH
—[X]—	GRAVEL/STONE
—[X]—	GROUND ROD WITH ACCESS
—[X]—	CHEMICAL GROUND ROD
—[X]—	GROUND ROD
—[X]—	DISCONNECT SWITCH
—[X]—	METER

GENERAL NOTES

- THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS. IF ANY CONFLICTS OR DISCREPANCIES ARE FOUND IN THESE SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING THEM PRIOR TO THE SUBMISSION OF BIDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR THE PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO AT&T.
- THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE ON THE SITE AND SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- WORKMANSHIP THROUGHOUT BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:

NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION 10255 N. HIGGINS ROAD, SUITE 800 ROSEMONT, IL 60018
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION 4201 LAFAYETTE CENTER DRIVE CHATELLE, VA 22021-1209
MLP	INTERNATIONAL INSTITUTE FOR LATH AND PLASTER 820 TRANSFER ROAD ST. PAUL, MN 55114-1408

- INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- THE CONTRACTOR SHALL VERIFY, COORDINATE AND PROVIDE ALL NECESSARY BLOCKING, BRACING, FRAMING, HANGERS OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING THE SAME.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (DISHA) REQUIREMENTS.
- THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, AND AT&T PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING FINISHES, CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF AT&T, AND THE PROPERTY OWNER, OR THE OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.

GENERAL NOTES (CONT.)

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY, ANY FAULTY, IMPROPER, OR INTERFERING MATERIALS OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY AT&T UNDER THIS CONTRACT.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, OR CONTACT AN OUTSIDE AGENCY TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE IN CONNECTION WITH THE EXECUTION OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY AT&T.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER, AT&T AND THE CITY OR CONCERNED AGENCY.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR RECLAIMING THE CONSTRUCTION DOCUMENTS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS SHALL BE DONE AFTER THE SITE HAS BEEN ANNOTATED FINAL INSPECTION BY THE RESPONSIBLE BUILDING AGENCY. ONE SET OF RECLAIMED DRAWINGS SHALL BE PROVIDED TO THE AT&T CONSTRUCTION MANAGER.
- THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND NOT BE USED BY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDITION AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.
- THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS, EXCEPT FOR THAT SPECIFIED AS REMAINING THE PROPERTY OF THE BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEAN-UP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY AND SPECIAL CLEAN CONDITION, FREE FROM PAINT, SPOTS, DUST OR SLUDGES OF ANY NATURE TO COMPLETION OF WORK.
- THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.
- ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.
- SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH ULL LISTED OR FIRE MARSHALL APPROVED MATERIALS IF AND WHERE NECESSARY.
- PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2-A10C WITH 7.5 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA CONSTRUCTION.
- ELECTRICAL AND POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 810.
- ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS AT WALL AND ROOF PENETRATIONS SHALL BE CALKED OR SEALED TO LIMIT INFILTRATION OF AIR AND MOISTURE.
- UPON COMPLETION OF CONSTRUCTION, AT&T CONSTRUCTION MANAGER SHALL CONDUCT A WALK-THRU WITH PROPERTY OWNER OR REPRESENTATIVE OF PROPERTY OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEM EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY AT&T.
- ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

SITE DEVELOPMENT NOTES

- THE ARCHITECT/ENGINEER AND REPRESENTATIVES OF THE LESSEE AND OWNER MUST BE NOTIFIED AT LEAST TWO FULL DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- DO NOT EXCAVATE OR DISTURB SOILS BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS SPECIFICALLY INSTRUCTED, IN WRITING, BY THE ARCHITECT/ENGINEER AND LESSEE.
- DO NOT SCALE BUILDING DIMENSIONS FROM DRAWINGS.
- ANY BIDDING AND/OR FIELD FILE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL LOCATION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS MUST BE ACCURATELY NOTED AND PLACED ON AS-CONSTRUCTED DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER, LESSEE, AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE NUMBER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR COLLISIONS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE. CONTRACTOR SHALL CALL LOCAL OCCUR NOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE OBTAINED BY CONTRACTOR SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- THE BUILDING DEPARTMENT ISSUING THE BUILDING PERMIT SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK OR AS STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADIES AT THE GRADING LIMITS.

SITE DEVELOPMENT NOTES (CONT.)

- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRICED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 100% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.
- NEW GRADIES NOT IN BUILDING AND ORNAMENT IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 100% OF STANDARD PROCTOR DENSITY.
- ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. EACH LIFT'S THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
- ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A REGISTERED ENGINEER.
- THE GRADIES WITHIN FENCED AREAS ARE TO BE ACHIEVED BY COMPACTING CLEAN FILL TO A DENSITY OF 90% OF STANDARD PROCTOR CONCERNING THE AREA WITH TWO (2) LAYERS OF 50 (5) LB. VESICLE (12" DIA. OVERLAP AT ALL SEAMS) FOR VEEB SUPPRESSION, THEN ACHIEVING FINISH GRADE BY ADDING 6" OF 3/4" CRUSHED STONE, NO FINES.
- CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO PAVERS, TRASH, WEEDS, BRUSH OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
- ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE TRIMMED AS REQUIRED AND PROTECTED IN PLACE BY THE GENERAL CONTRACTOR.
- IMMEDIATE CONSTRUCTION, GRADING AND DRAINAGE WORK SHALL CONFORM TO CALIFORNIA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, AND ALL APPLICABLE PROVISIONS OF LOCAL COUNTY ORDINANCES.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN, READ AND FOLLOW THE GEO-TECHNICAL REPORT FOR EACH PROJECT SITE. ALL PROVISIONS WITHIN SAID REPORT SHALL BE ACCOMMODATED BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS. CONTINUOUS ON-SITE SUPERVISION BY THE GEO-TECHNICAL/SOILS ENGINEER SHALL BE MAINTAINED FOR THE CONTRACTOR PRIOR TO THE START OF ANY EXCAVATION AND/OR GRADING OPERATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE GEO-TECHNICAL/SOILS ENGINEER PRIOR TO THE START OF CONSTRUCTION. OBTAIN WRITTEN APPROVAL FROM THE SUPERVISING GEO-TECHNICAL ENGINEER PRIOR TO PROCEEDING WITH PLACEMENT OF ANY FORMS AND/OR MATERIALS.
- IF IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED SIGNS FOR THIS PROJECT. THE CONTRACTOR SHALL OBTAIN WRITTEN INSTRUCTIONS FROM THE IMPLEMENTATION ENGINEER AS TO THE EXACT MATERIAL, SIZE, WORKING, AND LOCATION FOR ALL SIGNS.

SIGNS THAT MAY BE REQUIRED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- 72x24 ACCESS SIGN
- SITE ENTRY SIGN
- INTERIOR STRUCTURE COMPLIANCE SIGN
- WALL OR EXPOSURE SIGN
- ANY ADDITIONAL SIGNS AS REQUIRED BY AT&T AND/OR GOVERNMENTAL AGENCIES



BALBOA PARK GOLF COURSE
SD0735 (LTE 5C/6C ANTENNA MOD
AWS/PCS)
2800 PERSHING DRIVE
SAN DIEGO, CA 92101

DCI PACIFIC
A/E/C WORKS
ARCHITECTURE | ENGINEERING | CONSULTING
12 E. CALIFORNIA STREET, SUITE 110
IRVINE, CA 92614



NO.	DATE	REVISIONS	BY	CHK	APP'D
1	07/22/17	ISSUED FOR CONSTRUCTION PERMIT (100% CD)	HS	BOX	DND
2	07/26/17	ISSUED FOR CD REVIEW AND COMMENTS (50% CD)	HS	BOX	DND
3					
4					
5					
6					
7					
8					
9					
10					

GENERAL NOTES, SITE
DEVELOPMENT NOTES,
LEGENDS &
ABBREVIATIONS

T02



SD0735 – Balboa Golf Course
Photo Simulation – North-West Elevation

BEFORE



Antennas located on
the light standards.
RRU's in the shroud

AFTER



No changes
proposed.



SD0735 – Balboa Golf Course
Photo Simulation - West Elevation

BEFORE



Antennas located
on the light
standards. RRU's in
the shroud

AFTER



No change is proposed.



7337 TRADE STREET, 3 EAST, ROOM 308A
 SAN DIEGO, CA 92121-4302



BALBOA PARK GOLF COURSE
SD0735 (LTE 5C/6C ANTENNA MOD
AWS/PCS)
 2600 PERSHING DRIVE
 SAN DIEGO, CA 92101

DCI PACIFIC
A/E/C WORKS

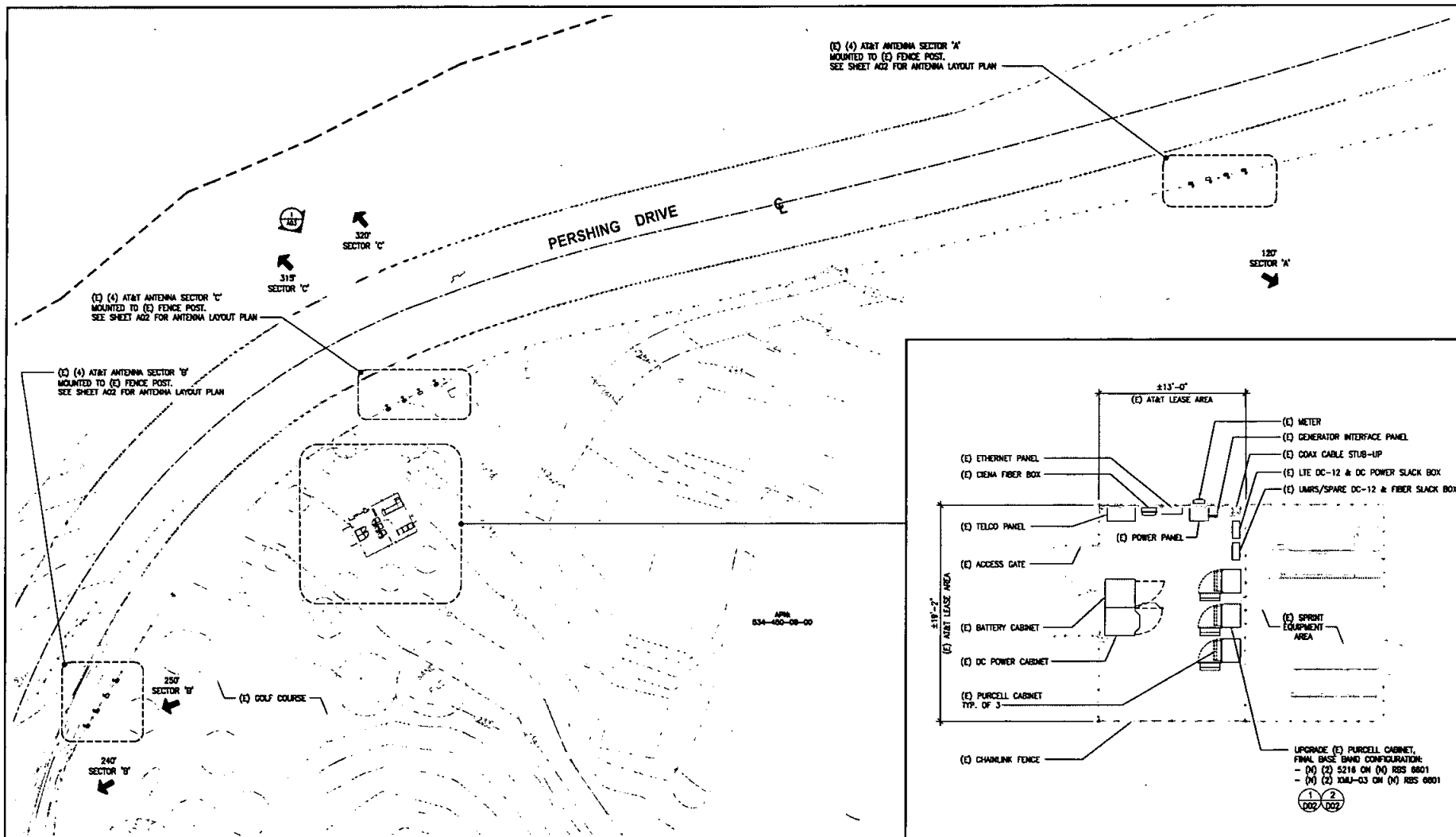
ARCHITECTURE | ENGINEERING | CONSULTING
 22 EXECUTIVE PARK | SUITE 110
 IRVINE | CA 92614



NO.	DATE	REVISIONS	BY	CHK	APP'D
1	07/22/17	ISSUED FOR CONSTRUCTION PERMIT (100% CD)	HK	BOX	SDG
2	07/22/17	ISSUED FOR CD REVIEW AND COMMENTS (90% CD)	HK	BOX	SDG
3	07/22/17	REVISIONS	BY	CHK	APP'D
SCALE		AS SHOWN	DESIGNED	DRAWN	

SHEET TITLE	SHEET NUMBER
PHOTO-SIMS	T03

RESCALE PLUS TO 30' X 42' SCALE



SITE PLAN



BALBOA PARK GOLF COURSE
SD0735 (LTE 5C/6C ANTENNA MOD
AWS/PCS)
2600 PERSHING DRIVE
SAN DIEGO, CA 92101

DCI PACIFIC
A/E/C WORKS

ARCHITECTURE | ENGINEERING | CONSULTING
32 EXECUTIVE PARK | SUITE 110
IRVINE | CA 92614



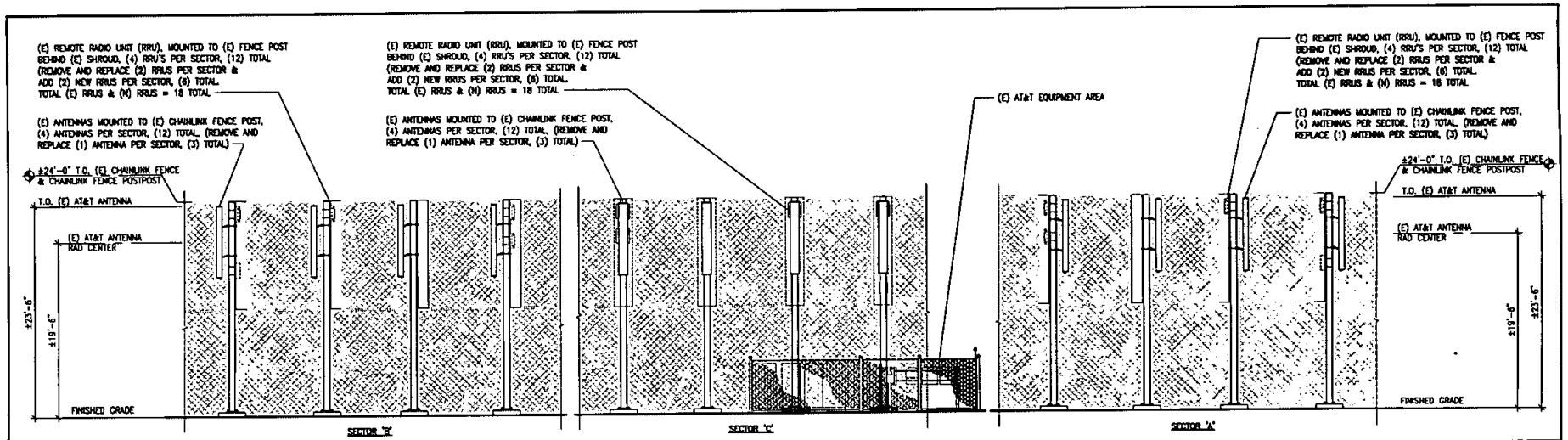
NO.	DATE	REVISIONS	BY	CHK	APP.
1	07/22/17	ISSUED FOR CONSTRUCTION PERMIT (100% CD)	HN	BOX	DCD
2	07/02/17	ISSUED FOR CD REVIEW AND COMMENTS (DCE CD)	HN	BOX	DCD

SCALE: AS SHOWN

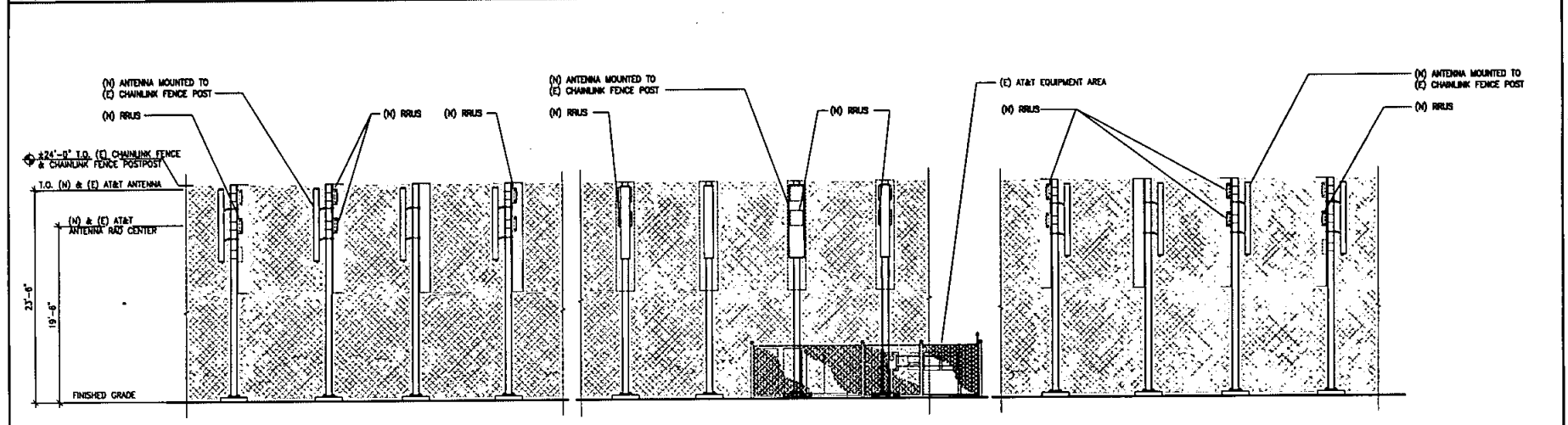
SITE PLAN &
(E) EQUIPMENT LAYOUT
PLAN

A01

NOTED: NOT TO BE USED FOR ANY OTHER PURPOSE



(E) NORTHWEST ELEVATION SCALE: 1"=10'-0" SHEET 2



(N) NORTHWEST ELEVATION SCALE: 1"=10'-0" SHEET 1



BALBOA PARK GOLF COURSE
SD0735 (LTE 5C/6C ANTENNA MOD
AWS/PCS)
2500 PERSHING DRIVE
SAN DIEGO, CA 92101

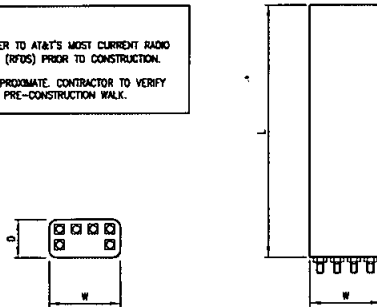
DCI PACIFIC
A/E/C WORKS
ARCHITECTURE | ENGINEERING | CONSULTING
32 BALBOA PARK | SUITE 110
MYRINE | CA 92014



NO.	DATE	REVISIONS	BY	CHK	APP'D
1	01/22/17	ISSUED FOR CONSTRUCTION PERMIT (100% CD)	MM	BOH	BOH
2	02/02/17	ISSUED FOR CD REVIEW AND COMMENTS (10% CD)	MM	BOH	BOH

SHEET TITLE	SHEET NUMBER
ELEVATIONS	A03

1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
2. CABLE LENGTHS ARE APPROXIMATE. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.



FRONT

MANUFACTURER	MODEL	BAND	FREQUENCIES, MHZ	POLARIZATION	RET	L, IN	W, IN	D, IN	WEIGHT, LB
CCI	B5A-M65R-GU-UH6	MULTI	698-806 2305-2360	DUAL	INSTALLED	72.0	28.5	9.7	101.0
KATHREIN	800 10964K	MULTI	698-980 1695-2690	DUAL	INSTALLED	59.0	20.0	6.9	94.8

SCALE:	2
N.T.S.	

RRUS 32 B66

- [illegible]



- AVS
 - $f = 210 - 230 \text{ MHz}$
 - $40 - 1170 - 1740 \text{ MHz}$
- CPM2 2 ports x 10 Gbps, Ingress 2 SFPA, and egress 2 SFPA ports for the PRR2 during full duplex
- Data use Ethernet switch and egress SFPA 10Gbps (10/40/100)
- 6 external serial ports (4 USB, 2 RS-485)
- Main serial port (4 USB or RS-485)
- Base case size = 200 kL, Power consumption = 600W (for demonstration)
- 3000m-hour non-redundant operation for use as data monitoring
- 3000m-hour non-redundant operation for use as data monitoring
- 5000m-hour non-redundant operation for use as data monitoring
- 5000m-hour non-redundant operation for use as data monitoring
- Main DC voltage range: 10V to 12V (10V is required)
- Adapter is required for 12V connection
- Grounded DC input is required
- Standard cable size = 24AWG
- Dimensions (2nd hand set, level and horizontal):
 - Height: 27 (24) mm
 - Width: 151 (126) mm
 - Depth: 7.6 (7) mm
- Weight: max. mounting height = 153 lbs (74 kg)



3	ANTENNA SCHEDULE
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GROSSMONT COLLEGE
SS0617
(LTE FN, AWS3, RETROFIT 1900/AWS)
8800 GROSSMONT COLLEGE DRIVE
EL CAJON, CA 92020

DCI PACIFIC
A|E|C WORKS

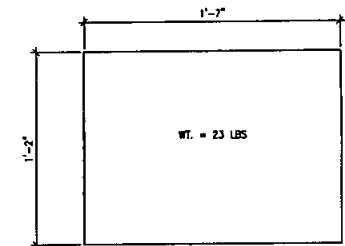
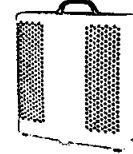
ARCHITECTURE | ENGINEERING | CONSULTING
22 EXECUTIVE PARK | SUITE 110
BRYNE | CA 92614



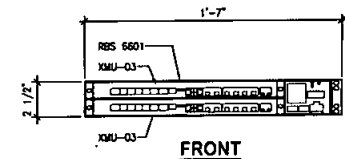
A	07/16/17	ISSUED FOR CD REVIEW AND COMMENTS (BOX CQ)	HK	BOK	AP
NO.	DATE	REVISIONS	BY	CHE	DW
SCALE	AS SHOWN	DESIGNED	DRAWN		

D01

- 2x60 Watts
- GSM, WCDMA & LTE
- Frequencies:
 - Band 2 (PCS, KRC 161 299/2)
 - Band 4 (AWS, KRC 161 349/2)
 - Band 5 (850MHz, KRC 161 321/2)
- 1BW: 40 MHz (B2, B4), 25 MHz (B5)
- Up to 4 carriers WCDMA or LTE
- 2.5 Gbps CPRI
- 6 external alarms
- DC supply (AC as an option)
- Dimensions (HxWxD): 20.4"x18.5"x7.5" (including sun shield and handle)
- Weight: 50 lbs, excluding mounting hardware
 - 58 lbs in Extranet description, applicable to heaviest (non-AT&T) frequency model



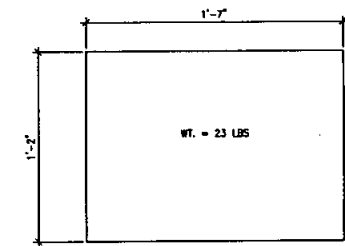
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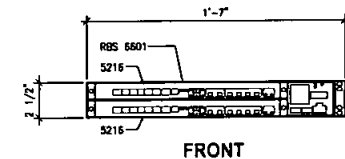
FRONT

3

SCALE:	1
N.T.S.	

[illegible]

TOP



FRONT

	4
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SCALE:	2
M.P.S.	



BALBOA PARK GOLF COURSE
SD0735 (LTE 5C/6C ANTENNA MOD
AWS/PCS)
2600 PERSHING DRIVE
SAN DIEGO, CA 92101

DCI PACIFIC
A|E|C WORKS

ARCHITECTURE | ENGINEERING | CONSULTING
82 EXECUTIVE PARK | SUITE 130
IRVINE | CA 92614



0	07/22/17	ISSUED FOR CONSTRUCTION PERMIT (100% CD)	HH	BOR	OK
A	07/02/17	ISSUED FOR CD REVIEW AND COMMENTS (BOR CD)	HH	BOR	OK
NO. DATE		REVISIONS	BY CHL APP		
SCALE AS SHOWN		DESIGNED	DRAWN		

SHEET TITLE

DETAILS

DEET RANGER

D02

ABBREVIATIONS AND LEGENDS

A	AMP(S)
AF	AMP FUSE
AFB	ABOVE FINISHED FLOOR
AIC	"AMPERES INTERRUPTING CAPACITY"
AS	AMP SWITCH
ASCC	AVAILABLE SHORT CIRCUIT CURRENT
C	"CONDUIT", WITH CONDUCTORS AS REQUIRED BY DRAWINGS OR SPECIFICATIONS.
C.O.	"CONDUIT ONLY". PROVIDE PULL ROPE FOR ALL EMPTY CONDUIT AS REQUIRED.
ELEV	ELEVATION
EMT	ELECTRICAL METALLIC TUBING CONDUIT
KW	"KILOWATT"
KVA	"KILOVOLT AMPERES"
MCC	MOTOR CONTROL CENTER
O.C.	"ON CENTER"
P	POLE
PHL	PANEL
RCS	RIGID GALVANIZED STEEL CONDUIT
T	TRANSFORMER
UNO	UNLESS NOTED OTHERWISE
V	"VOLTS"
W	WIRE
WP	WEATHERPROOF, NEMA 3R
Ø	PHASE OR DIAMETER
---	ELECTRICAL EQUIPMENT SHOWN DASHED IS EXISTING.
—T—	TELEPHONE CONDUIT WITH PULL LINE IN PLACE.
—E—	ELECTRICAL CONDUIT WITH PULL LINE IN PLACE.
—A—	COAXIAL CABLE/WAVEGUIDE CONDUIT WITH PULL LINE(S) IN PLACE.
—G—	#2 AWG, BARE, TINNED, SOLID, COPPER WIRE (UNLESS OTHERWISE SPECIFIED).
—	CONDUIT STUBBED OUT AND CAPPED, WITH PULL LINE IN PLACE.
—	CROSS LINES ON CONDUIT RIMS INDICATE NUMBER OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #12 AND ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. MATERIALS ADJACENT TO CROSS LINES ON CONDUIT RIMS INDICATE SIZE OF CONDUCTORS IN VIEW OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER C.E.C. TABLES 250-95, BUT NOT SMALLER THAN #12.
B-1,3	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.
—	ISOLATED GROUND WIRE. RUN IN ADDITION TO REGULAR GROUND WIRE.
—	RECESSED COMMUNICATION TERMINAL CABINET.
—	SURFACE MOUNTED COMMUNICATION TERMINAL CABINET.
⊙	JUNCTION BOX PEDESTAL TYPE FLOOR MOUNTED.
—	TELEPHONE TERMINAL BACKBOARD "TTB". 3/4 INCH SANDED AND PAINTED CDX PLYWOOD.
—	4' x 8' UNLESS NOTED OTHERWISE.
GFP	GROUND FAULT PROTECTION DEVICE.
•	MECHANICAL CONNECTION.
■	EXOTHERMIC/CAWELDED CONNECTION.
⊗	3/8" x 10"-0" COPPER, OR COPPER CLAD STEEL GROUND ROD AT 10'-0" O.C. (MAX)
⊗	GROUND ROD INSPECTION WELL.
—	CONNECTION TO GROUND. MONITOR TWO (2) OF THE FOLLOWING: EARTH BUILDING, COLD WATER PIPING. VERIFY CONTINUITY FOR ALL GROUND SURFACES WITH A TOTAL RESISTANCE OF < 5 OHMS.
—	MANUAL TRANSFER SWITCH (MTS) OR DISCONNECT.
SS	THERMAL OVERLOAD MOTOR STARTER SWITCH.

ELECTRICAL NOTES

- THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS AND WIRE WAY SHALL BE IN ACCORDANCE WITH THE UNIFORM BUILDING CODE, CHAPTER 23 AND "GUIDELINE FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS," PUBLISHED BY SMACNA AND PPIC, OR THE SUPERSTRUT-SEISMIC RESTRAINT, OR THE K&H-LINE SEISMIC RESTRAINT SYSTEM.
- ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING: AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) AMERICAN STANDARD ASSOCIATION (ASA) FIRE PROTECTION AGENCY (NFPA) AMERICAN NATIONAL STANDARD INSTITUTE (ANSI) CALIFORNIA ELECTRICAL CODE (CEC) - LATEST EDITION CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR) INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) ALL LOCAL CODES AND ORDINANCES OF AGENCIES HAVING JURISDICTION, WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.
- THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDUMS, DRAWINGS AND SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONDITIONS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS, UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ARCHITECT, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREIN WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER. FAILURE TO KEEP RECORD DRAWINGS UP-TO-DATE SHALL CONSTITUTE CAUSE FOR WITHHOLDING OF PROGRESS PAYMENTS.
- ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER 14 DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANELBOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.
- SHOP DRAWINGS SHALL BE SUBMITTED FOR ITEMS INDICATED ON PLANS. SHOP DRAWINGS SHALL INCLUDE ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS AND MANUFACTURER'S BROCHURES.
- AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
- THE CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.
- ALL EQUIPMENT MOUNTED ON ROOF FOR CONNECTION TO PCS EQUIPMENT SHALL BE MOUNTED ON UNFURNISHED STANDS UTILIZING APPROVED PITCH POCKETS, FLASHING, ETC.
- ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
- COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. REVIEW THE DRAWINGS OF OTHER TRADES AND LOCATION OF EQUIPMENT.
- EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFRESHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE U.L. APPROVED. DO NOT CUT OR BREAK ANY EXISTING REINFORCING BARS IN EXISTING CONCRETE OR MASONRY. IF IN DOUBT REGARDING LOCATION OF REINFORCING, THEN CONTRACTOR, AT CONTRACTOR'S EXPENSE, SHALL UTILIZE X-RAY, ULTRA-SOUND, OR OTHER AVAILABLE TECHNOLOGY TO LOCATE EXISTING REINFORCEMENTS PRIOR TO DRILLING OR CORING OPERATIONS.
- CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS: LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS. LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS. PROVIDE A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT RUNS. MAXIMUM LENGTH SHALL BE SIX FEET UNLESS OTHERWISE NOTED.
- ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. AVOID CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING, TRENCHING, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO PERFORM HIS WORK. ATTENTION IS CALLED TO THE FACT THAT THERE ARE EXISTING UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN TRENCHING FOR HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGES CAUSED BY HIM OR HIS WORK.
- WHenever a discrepancy in quantity or size of CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), arises on the drawings or specifications, the CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.
- UTILITY PENETRATIONS, OF ANY KIND, IN FIRE AND SMOKE PARTITIONS, NON-RATED CEILINGS, AND/OR NON-RATED WALLS, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL, SECURELY INSTALLED.
- STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.
- MAXIMUM NUMBER OF CONDUCTORS IN OUTLET OR JUNCTION BOXES SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 370-6.
- IDENTIFICATION NAMEPLATES SHALL BE MOUNTED 1/8 INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4 INCH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED FOR ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCHBOARDS OR PANELBOARDS, DISCONNECTING SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CABINETS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. PULL BOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PERMANENT MARKER.
- THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE DETAILS, OR SECTIONS PRIOR TO INSTALLATION.
- DRAWINGS ARE DIAGRAMMATIC ONLY. ROUTING OF CONDUITS, RACEWAYS, CABLE TRAYS, AND/OR LADDER RACKS SHALL BE AT THE DISCRETION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.
- SPECIAL RECEPTACLE FOR CONNECTION TO PORTABLE EMERGENCY GENERATOR WHEN SPECIFIED SHALL BE 200 AMPERE, THREE-WIRE, THREE-POLE, REVERSE SERVICE, PIN AND SLEEVE TYPE WITH MOUNTING BOX. VERIFY TYPE OF EMERGENCY GENERATOR CONNECTION WITH CONSTRUCTION MANAGER.

- RIGID GALVANIZED STEEL CONDUIT SHALL BE FULL WEIGHT THREADED TYPE. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILING SPACES WHERE NOT SUBJECT TO MECHANICAL DAMAGE. PVC SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB OR BELOW GRADE. FLEXIBLE STEEL CONDUIT MAY BE USED AT OUTLET CONNECTIONS WITH NO RUNS LONGER THAN SIX FEET. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUITS.
- RIGID GALVANIZED STEEL CONDUIT FITTINGS SHALL BE THREADED AND THOROUGHLY GALVANIZED. ELECTRICAL METALLIC TUBING (EMT) CONDUIT FITTINGS SHALL BE STEEL, RAINIGHT THREADEDLESS COMPRESSION TYPE. DIE CAST, SET SCREW, OR RIDGID TYPE ARE NOT ACCEPTABLE. FLEXIBLE STEEL CONDUIT FITTINGS SHALL BE WALLEABLE RIGID CLAMP, SQUEEZE TYPE OR STEEL TWIST-IN TYPE WITH INSULATED THROAT. SET SCREW TYPE IS NOT ACCEPTABLE.
- ALL CONDUCTORS SHALL BE COPPER #10 AWG MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND U.L. LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.
- JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE, DRAIN TYPE, KNOCKOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH REMOVABLE, GASKETED, NON-FERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED. BOXES SHALL BE LABELED TO INDICATE PANEL AND CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATIONS SYSTEM.
- ALL OUTDOOR ELECTRICAL DEVICES OR EQUIPMENT SHALL BE OF WEATHERPROOF TYPE.
- ALL CONNECTIONS TO GROUND BUSSES SHALL BE MADE W/CRIMP TYPE COMPRESSION CONNECTORS (2 HOLE LUGS). BUSS SHALL BE DRILLED TO ACCOMMODATE ALL CONNECTIONS.



7327 TRADE STREET, 3 EAST, ROOM 300A
SAN DIEGO, CA 92121-4202



BALBOA PARK GOLF COURSE
SD0735 (LTE 5C/6C ANTENNA MOD
AWS/PCS)
2800 PERSHING DRIVE
SAN DIEGO, CA 92101

DCI PACIFIC
A/E/C WORKS

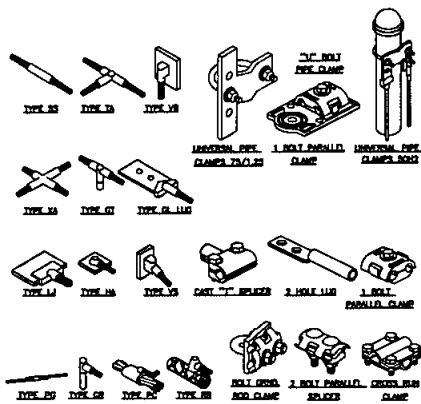
ARCHITECTURE | ENGINEERING | CONSULTING
22 BALBOA PARK | SUITE 110
SAN DIEGO, CA 92101-1114



NO.	DATE	REVISION	BY	CHK	APP'D
1	07/22/17	ISSUED FOR CONSTRUCTION PERMIT (100% CD)	HN	BNH	SDH
2	07/22/17	ISSUED FOR CD REVIEW AND COMMENTS (90% CD)	HN	BNH	SDH
3		REVISION			
4		REVISION			
5		REVISION			

ELECTRICAL NOTES,
ABBREVIATIONS AND
SYMBOLS

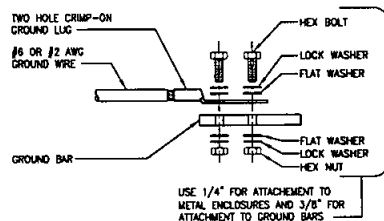
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CALDWELD & MECHANICAL CONNECTIONS

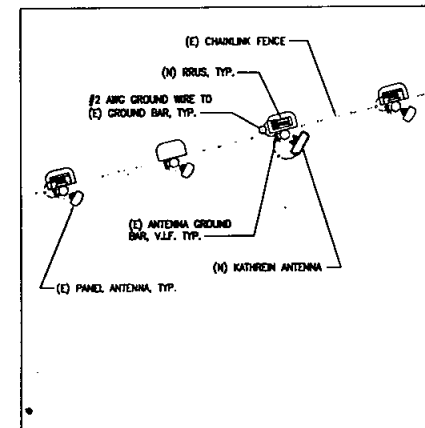
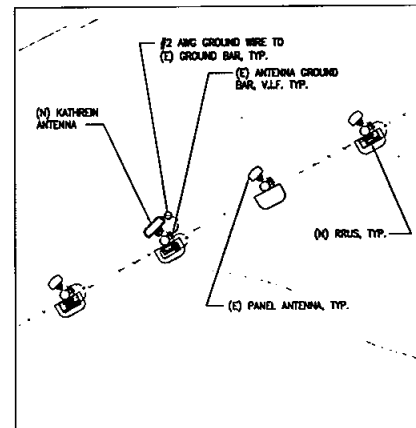
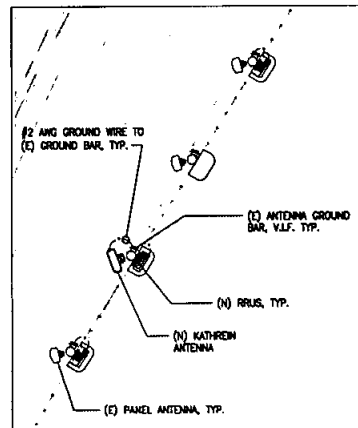
SCALE
ALL

2



INSTALLATION NOTES:

- BOLTS, WASHERS, AND NUTS SHALL BE STAINLESS STEEL.
- SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
- BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT.
- APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF LUG AND WIPE CLEAN EXCESS COMPOUND.



GROUNDING NOTES

NOTES:

- THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AIA), THE SITE-SPECIFIC (UL, LPL OR NFPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GESS) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND B1) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. TESTS SHALL BE PERFORMED IN ACCORDANCE WITH 25471-000-395-0000-0001, DESIGN & TESTING OF FACILITY GROUNDING FOR CELL SITES.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTI-OXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE W/ THE NEC.
- METAL CONDUIT AND TRAY SHALL BE GROUNDING AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL, SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222. FOR TOWERS BEING BUILT TO REY G OF THE STANDARD, THE WIRE SIZE OF THE BURIED GROUND RING AND CONNECTIONS BETWEEN THE TOWER AND THE BURIED GROUND RING SHALL BE CHANGED FROM 2 AWG TO 2/0 AWG. IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM 6 FEET TO 10 FEET.

- ⊗ GROUND TEST WELL
- ⊕ CHEMICAL GROUND ROD
- ⊙ GROUND ROD
- COMPRESSION TYPE CONNECTION
- CALDWELD TYPE CONNECTION
- G GROUND WIRE
- G GROUND BAR

GROUNDING TO GROUND BAR

SCALE
ALL

3

ANTENNA AND RRU GROUNDING PLANS AND GROUNDING NOTES

1



BALBOA PARK GOLF COURSE
SD0735 (LTE 5C/6C ANTENNA MOD
AWS/PCS)
2500 PERSHING DRIVE
SAN DIEGO, CA 92101

DCI PACIFIC
A/E/C WORKS

ARCHITECTURE | ENGINEERING | CONSULTING
32 EXECUTIVE PARK | SUITE 118
BOSTON, MA 02114



NO.	DATE	REVISIONS	BY	CHK	APPV
1	07/22/11	ISSUED FOR CONSTRUCTION PERMIT (100% CD)	HN	BCD	END
2	07/22/11	ISSUED FOR CD REVIEW AND COMMENTS (90% CD)	HN	BCD	END
3					
4					
5					
6					
7					
8					
9					
10					

ANTENNA/RRU
GROUNDING PLAN,
GROUNDING NOTES AND
DETAILS

E02