



November 9, 2015

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

RE: Site Address: 3491 Adams Avenue, San Diego (the "Property")
 Site Name: SS0025 Adams Park
 Agreement: Lease Agreement, dated February 9, 2011, (the "Lease") between The City of San Diego ("City") and New Cingular Wireless PCS, LLC, ("Lessee").

Dear Ms. Charles,

As part of the continuous effort to keep its network up to date, AT&T Mobility would like to perform the following modifications (changes) as described in the **attached stamped and approved plans**, to the site referenced above:

Antennas: No changes to antennas.

Light Standards: Replace in existing shrouds, one (1) TMA (Tower Mounted Amplifier) on each tower (Light Standard), total three (3).

Equipment: Install three (3) new RRUs (Remote Radio Units) in shelter. Replace two (2) Diplexers per sector in shelter total six (6). Replace XMU card inside Purcell cabinet in shelter.

Pursuant to 10; Improvements and Alterations of the Lease Agreement, "Lessee shall not construct any improvements, structures or installations on the Premises, or make any alterations to the Premises (with the exception of necessary maintenance and/or repairs) without CITY'S prior written consent. LESSEE shall not make major structural or architectural design alterations to approved improvements, structures, or installations on the Premises without CITY'S prior written consent.

Pursuant to 10.3; If changes in technology occur during the Term that require LESSEE to upgrade the Communications Equipment, LESSEE may perform such upgrading, provided that: (1) LESSEE obtains CITY'S prior written consent; (2) the upgrading does not damage or interfere with any adjacent improvements on the Site; and (3) the upgrading complies with the requirements set forth in Exhibit E.

In order to comply with such requirement, AT&T Mobility would like to request City's consent and approval to complete the items described above.

By signing this letter, City is providing its consent and approval to allow AT&T Mobility to perform the proposed modifications described herein. Upon signature, please return to my attention at:

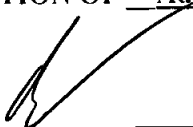
Black & Veatch
10089 Willow Creek Rd., Suite 350
San Diego, CA 92131

Please call me at (619) 806-0858 should you have any questions or require further information. Thank you for your consideration.

Sincerely,

Jeff Goldman, *agent for AT&T Mobility*

**CITY OF SAN DIEGO, ACKNOWLEDGEMENT AND CONSENT
FOR MODIFICATION OF Adams Park @ 3491 Adams Avenue, San Diego
(Site Location)**

By: 
Name: **Cybele Thompson**
Title: **Director, Real Estate Assets**
Date: 11/10/15

SPECIAL INSPECTION NOTE

SPECIAL INSPECTIONS ARE NOT REQUIRED FOR CONSTRUCTION OF A MINOR NATURE, OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL.

ENGINEERING

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.

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.

PROJECT DESCRIPTION

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

- INSTALL (3) (N) RRUS-32 IN SHELTER
- REPLACE (1) (E) TIA ON TOWER PER SECTOR
- REPLACE (2) (C) DUPLEXER IN SHELTER PER SECTOR
- REPLACE KIU CARD INSIDE PURCELL CABINET

PROJECT INFORMATION

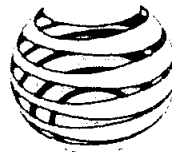
PROPERTY OWNER: CITY OF SAN DIEGO
ADDRESS: 35TH STREET, SAN DIEGO, CA 92121
SITE NAME: ADAMS PARK
ADDRESS: 3491 ADAMS AVENUE, SAN DIEGO, CA 92118
SITE CONTACT: ENZA CHARLES
NUMBER: (619) 238-8052
COUNTY: SAN DIEGO
LATITUDE (NAD 83): 32.7830
LONGITUDE (NAD 83): -117.1177
GROUND ELEVATION: 200' AMSL
ANTENNA TIP HEIGHT: 43' & 35' ADL
ZONING JURISDICTION: CITY OF SAN DIEGO
ZONING DISTRICT: DP-1-1
PARCEL #: 440-562-2900
OCCUPANCY GROUP: U
CONSTRUCTION TYPE: V-B
OTHER WIRELESS FACILITIES: NONE
POWER COMPANY: SDG&E
TELEPHONE COMPANY: AT&T
RF ENGINEER: JORGE MELCHOR
NUMBER: (858) 782-2181
LEASING AGENT: JEFF GOLDMAN
NUMBER: (619) 606-0858
ZONING AGENT: DRYANNE GARTRELL
NUMBER: (619) 502-1188
CONSTRUCTION MANAGER: JESSE FORDOVIX
NUMBER: (878) 220-4134

LEGAL DESCRIPTION

REFER TO FINAL SURVEY FOR LEGAL DESCRIPTION.
IF UNAVAILABLE PLEASE DELETE LEGAL DESCRIPTION BOX.

CONTACT INFORMATION

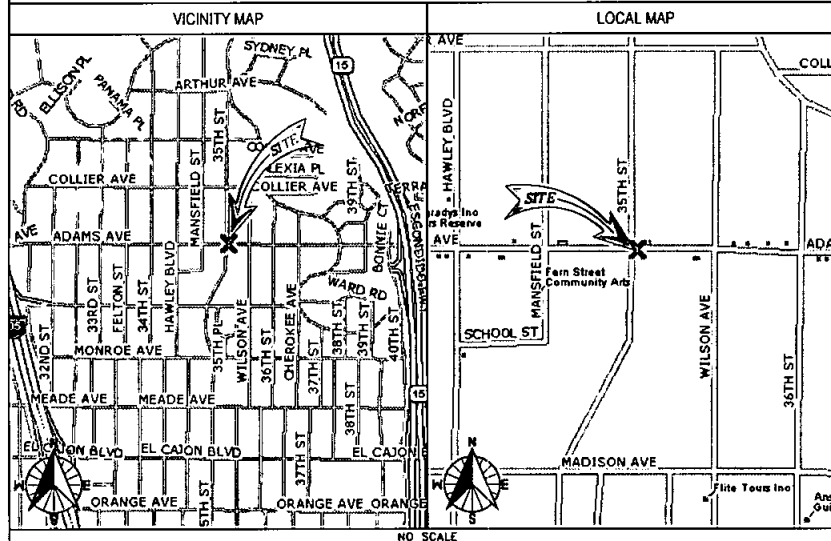
ENGINEER: BLACK & VEATCH CORPORATION
10089 WILLOW CREEK RD, SUITE 350
SAN DIEGO, CA 92131
CONTACT: JOSEPH PALMA
(619) 541-9479



at&t

SS0025
ADAMS PARK
LTE 3C
3491 ADAMS AVENUE
SAN DIEGO, CA 92116

LOCATION MAPS



DRIVING DIRECTIONS

DIRECTIONS FROM AT&T OFFICE:

HEAD SOUTH TOWARD WIRELESS WAY; GO 381 FT. TURN RIGHT ON WIRELESSWAY; GO 59 FT. TURN RIGHT ONTO PACIFIC CENTER BLVD.; GO 0.2 MI. TURN LEFT ONTO LUSK BLVD.; GO 0.6 MI. TURN RIGHT ONTO MIRA MESA BLVD; GO 0.6 MI. CONTINUE ONTO SORRENTO VALLEY RD.; GO 0.2 MI. KEEP RIGHT ONTO THE I-805 S RAMP; GO 0.2 MI. MERGE ONTO I-805 S; GO 10.1 MI. TURN RIGHT ONTO OHIO STREET; GO 0.1 MI. TURN RIGHT ONTO ADAMS AVENUE; GO 0.7 MI. SITE IS ON THE LEFT.

STATEMENT OF SPECIAL INSPECTIONS

THE ENGINEER OF RECORD, BEING FULLY ADVISED OF THE CODE AND SCOPE OF THE SUBJECT PROJECT, STATES SPECIAL INSPECTIONS WILL BE PERFORMED FOR THE SUBJECT WORK IN CONFORMANCE WITH THE 2013 CBC 1705.

WORK SUBJECT TO SPECIAL INSPECTION:

- HIGH-STRENGTH BOLTING
- WELDING

THE SPECIAL INSPECTION PLAN CONSISTS OF THE ENGINEER OF RECORD PREPARING AND SEALING THE DESIGN DOCUMENT. THE SPECIAL INSPECTION REPORT WILL BE THE AS-BUILT REQUIRED DRAWINGS PREPARED BY THE CONSTRUCTION MANAGER. THE AS-BUILTS WILL BE MADE AVAILABLE TO THE BUILDING OFFICIAL WITHIN TWO WEEKS OF RECEIPT OF REQUEST (CBC 1704.2.4).

APPROVALS

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

LEASING VENDOR: _____ DATE: _____
ZONING VENDOR: _____ DATE: _____
AT&T RF ENGINEER: _____ DATE: _____
CONSTRUCTION MANAGER: _____ DATE: _____
AT&T OPERATIONS: _____ DATE: _____
SITE ACQUISITION MANAGER: _____ DATE: _____
A/E MANAGER: _____ DATE: _____
PROJECT MANAGER: _____ DATE: _____
PROPERTY OWNER: _____ DATE: _____

RF INFORMATION

	LTE	GSM	UMTS
Tx	704.0 - 716.0 MHz 1900	869 - 874.6 MHz 890 - 891.4 MHz 1950 - 1952.8 MHz 1970 - 1980	874.6 - 879.5 MHz 1945 - 1950 MHz
Rx	704.0 - 716.0 MHz 1900	824 - 829.4 MHz 845 - 846.4 MHz 1870 - 1872.8 MHz 1890 - 1900	829.6 - 834.4 MHz 1865 - 1869.8 MHz
MAX EIRP:	500.0 WATTS	MAX ERP: 850 MHz: 54 WATTS 1900 MHz: 54.5 WATTS	

DRAWING INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
T-2	APPROVAL LETTER (DELETE IF NOT USED)
T-3	APPROVED PHOTOSIMULATIONS (DELETE IF NOT USED)
C-1	SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	EQUIPMENT LAYOUT
C-4	ANTENNA LAYOUT (EXISTING & NEW)
C-5	ELEVATIONS
C-6	ELEVATIONS
C-7	DETAILS
E-1	ELECTRICAL PLAN
E-2	ELECTRICAL AC ONE-LINE DIAGRAM
E-3	ELECTRICAL DC ONE-LINE DIAGRAM
G-1	GROUNDING ONE-LINE DIAGRAM
G-2	GROUNDING DETAILS
GN-1	GENERAL NOTES, LEGEND & ABBREVIATIONS
GN-2	GENERAL ELECTRICAL NOTES

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

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



UNDERGROUND
SERVICE ALERT
UTILITIES PROTECTION CENTER, INC.
811

48 HOURS BEFORE YOU DIG



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 456-2000

PROJECT NO: 122082
DRAWN BY: SAN
CHECKED BY: JC

JAB 11/04/15
A 08/26/16
REV DATE DESCRIPTION

NOT TO BE USED
FOR CONSTRUCTION

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SS0025
ADAMS PARK
3491 ADAMS AVENUE
SAN DIEGO, CA 92116
LTE 3C

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

2013 CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24 C.C.R.)
2013 CALIFORNIA BUILDING CODE (CBC) (PART 2, TITLE 24 C.C.R.)
2013 INTERNATIONAL BUILDING CODE VOLUMES 1-3 AND 2013 CALIFORNIA
AMENDMENTS
2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 1, TITLE 24 C.C.R.
2013 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS
2013 ONCE-A-DAY MEDICAL CODE (ODMC) (PART 3, TITLE 24 C.C.R.)
2013 UNIFORM MEDICAL CODE AND 2013 CALIFORNIA AMENDMENTS
2013 CALIFORNIA PLUMBING CODE (CPC) (PART 1, TITLE 24 C.C.R.)
2013 INTERNATIONAL PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS
2013 CALIFORNIA ENERGY CODE (CEC), PART 1, TITLE 24 C.C.R.
2013 CALIFORNIA FIRE CODE (CFC) (PART 1, TITLE 24 C.C.R.)
2013 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS
2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11, TITLE 24 C.C.R.)
2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11, TITLE 24 C.C.R.)
TITLE 10 C.C.R., PUBLIC SAFETY, STATE FIRE ARMOR, REGULATIONS
(1) (TITLE 10 C.C.R. 1044-00 GENERAL SAFETY CODE FOR ELEVATORS
AND ESCALATORS

NPFA 11	AUTOMATIC SPARKPLUG SYSTEMS	2013 EDITION
NPFA 12	STANDARD SYSTEMS	2013 EDITION
NPFA 13	DRY CHARGES EXHAUSTING SYSTEMS	2013 EDITION
NPFA 17a	WET CHEMICAL SYSTEMS	2013 EDITION
NPFA 20	STATIONARY PUMPS	2013 EDITION
NPFA 21	UNIT CHARGES, REMOTE FIRE PROTECTION	2013 EDITION
NPFA 24	PRIVATE FIRE BRIGADES	2013 EDITION
NPFA 25	HANDHOSE SYSTEMS	2013 EDITION
NPFA 26	FIRE COOKERS AND OTHER COOKING PROTECTIVES	2013 EDITION
NPFA 27	STANDARD FOR BUCKET CONTROL SYSTEM	2012 EDITION
NPFA 28	STANDARD FOR PORTABLE COOKING SYSTEMS	2012 EDITION
NPFA 300	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2012 EDITION
ICC 300	ICC STANDARDS ON BLEACHERS, FOLDING AND STRETCHING EQUIPMENT COVERING SYSTEMS	2012 EDITION
IA 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR STRUCTURAL PROTECTIVE COATING	2005 EDITION
IA 444	ADDITIONAL BURNING APPLIANCES	2006 EDITION
IA 521	HEAT DETECTORS FOR FIRE PROTECTIVE SEALING	1992 EDITION

STRUCTURAL ENGINEER:	NOEL Z. HERRERA
TEL:	(913) 458-8312
E-MAIL:	HERRERAN@ENV.COM
ELECTRICAL ENGINEER:	JIM RIDDLE
TEL:	(913) 458-7304
E-MAIL:	RIDDLE.J@ENV.COM

PRINT NAME _____
 S6199
 LICENSE NUMBER _____ EXPIRATION DATE 03-31-15

☒ ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

☒ A STATEMENT THAT TITLE 24, PARTS 1-6 AND 9 MUST BE KEPT ON SITE DURING CONSTRUCTION

☒ CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, REQUIRED BY SECTION 4-330, PART 1, TITLE 24, CCR.

☒ A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR; CLASS 3.

PROJECT NO:	122082
DRAWN BY:	SAN
CHECKED BY:	JC

A	11/04/13	90E CO
REV	DATE	DESCRIPTION

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SAN DIEGO, CA 92116
LTE 3C

SHEET TITLE
APPROVAL LETTER

SHEET NUMBER

T-2

PENDING APPROVAL LETTER

PENDING APPROVED PHOTOSIMS



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO:	122082
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DRAWN BY: SAN

CHECKED BY: JG

A	11/04/15	90% CD
REV	DATE	DESCRIPTION

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SS0025
ADAMS PARK
3491 ADAMS AVENUE
SAN DIEGO, CA 92116
LTE 3C

SHEET TITLE
APPROVED
PHOTOSIMULATIONS

SHEET NUMBER
T-3

NOTES:

1. THIS SITE PLAN HAS BEEN CREATED WITHOUT THE BENEFIT OF A SITE SURVEY AND SHOULD BE USED FOR CONCEPTUAL PURPOSES ONLY.
2. 1. PATRICK H. DOYLE, DO HEREBY CERTIFY THAT THE STRUCTURE(S) OR MODIFICATION TO EXISTING STRUCTURE(S) SHOWN ON THESE PLANS DO NOT REQUIRE FEDERAL AVIATION ADMINISTRATION NOTIFICATION BECAUSE PER SECTION 77.15 (A) OF TITLE 14 OF THE CODE OF FEDERAL REGULATIONS CFR PART 77, NOTIFICATION IS NOT REQUIRED.
3. THE PASSING STRUCTURAL ANALYSIS FOR THE EXISTING TOWER HAS BEEN ANALYZED BY XXXXXX ON XXXXXX, XX XXXX. THE EXISTING TOWER HAS ENOUGH STRUCTURAL CAPACITY TO CARRY THE PROPOSED EQUIPMENT, COAX, AND ANTENNA LOADS. THESE DRAWINGS HAVE BEEN CREATED BASED ON THE TOWER'S CAPACITY TO SUFFICIENTLY SUPPORT THE PROPOSED LOADS.
- OR
2. THE PASSING STRUCTURAL ANALYSIS FOR THE EXISTING TOWER HAS BEEN COMPLETED BY XXXXXX ON XXXXXX XX, XXXX. BASED ON XXXXXX STRUCTURAL ANALYSIS, THE EXISTING TOWER HAS SUFFICIENT STRUCTURAL CAPACITY TO SUPPORT THE EXISTING AND PROPOSED LOADS.
- OR
2. THE EXISTING TOWER REQUIRES STRUCTURAL MODIFICATIONS. THE PASSING STRUCTURAL ANALYSIS WITH MODIFICATION DESIGN FOR THE EXISTING TOWER HAS BEEN COMPLETED BY BLACK & VEATCH ON DECEMBER 31, 2014. AFTER STRUCTURAL MODIFICATIONS THE EXISTING TOWER WILL HAVE ENOUGH STRUCTURAL CAPACITY TO SUPPORT THE PROPOSED EQUIPMENT, COAX, AND ANTENNA LOADS. THESE DRAWINGS HAVE BEEN CREATED BASED ON THE TOWER'S CAPACITY TO SUFFICIENTLY SUPPORT THE PROPOSED LOADS.
3. THE EXISTING TOWER IS CURRENTLY BEING ANALYZED BY OTHERS TO DETERMINE ITS STRUCTURAL CAPACITY TO CARRY THE PROPOSED NEW LOADS. THESE DRAWINGS HAVE BEEN CREATED BASED ON THE ASSUMPTION THAT THE STRUCTURAL ANALYSIS WILL SHOW THAT THE TOWER HAS SUFFICIENT CAPACITY TO SUPPORT THE PROPOSED NEW LOADS. INSTALLATION OF THE COAX AND ANTENNAS SHALL NOT COMMENCE UNTIL AN APPROVED STRUCTURAL ANALYSIS HAS BEEN RECEIVED BY THE OWNER OR AT&T AND HAS BEEN REVIEWED BY BLACK & VEATCH. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
4. THE EXISTING TOWER IS CURRENTLY BEING ANALYZED BY OTHERS TO DETERMINE ITS STRUCTURAL CAPACITY TO CARRY THE PROPOSED LOADS. THESE DRAWINGS HAVE BEEN CREATED BASED ON THE ASSUMPTION THAT THE STRUCTURAL ANALYSIS WILL SHOW THAT THE TOWER HAS SUFFICIENT CAPACITY TO SUPPORT THE PROPOSED NEW LOADS. INSTALLATION OF THE PROPOSED EQUIPMENT SHALL NOT COMMENCE UNTIL AN APPROVED STRUCTURAL ANALYSIS HAS BEEN RECEIVED BY THE OWNER OR AT&T AND HAS BEEN REVIEWED BY BLACK & VEATCH. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
5. THE PASSING STRUCTURAL ANALYSIS FOR THE EXISTING TOWER HAS BEEN ANALYZED BY BLACK & VEATCH ON XXXXXX, XX XXXX. THE EXISTING TOWER HAS ENOUGH STRUCTURAL CAPACITY TO CARRY THE PROPOSED EQUIPMENT, COAX, AND ANTENNA LOADS. THESE DRAWINGS HAVE BEEN CREATED BASED ON THE TOWER'S CAPACITY TO SUFFICIENTLY SUPPORT THE PROPOSED LOADS.

LESSEE'S CERTIFICATE STANDARD WIRELESS FACILITY PROJECT FOR POST CONSTRUCTION BMP'S

I/WE THE UNDERSIGNED, AS A LESSEE OF A PORTION OF THE PROPERTY DESCRIBED AS
1801 MORONA BLVD, SAN DIEGO, CA 92110
(ADDRESS OR LEGAL DESCRIPTION)

UNDERSTAND THAT, IN ACCORDANCE WITH THE SAN DIEGO MUNICIPAL CODE, LAND DEVELOPMENT MANUAL - STORM WATER STANDARDS, THIS PROJECT IS REQUIRED TO "IDENTIFY POLLUTANTS FROM THE PROJECT AREA" AND INCORPORATE "SITE DESIGN" AND "SOURCE CONTROL" BMP'S.

I CERTIFY TO THE BEST OF MY KNOWLEDGE, THAT THE POLLUTANTS ANTICIPATED BY THE PROPOSED LAND USE ARE AS FOLLOWS:

SEDIMENTS
NUTRIENTS
TRASH AND DEBRIS
OXYGEN DEMANDING SUBSTANCE
OIL AND GREASE
BACTERIA AND VIRUSES
PESTICIDES

I/WE WILL INCORPORATE THE FOLLOWING INTO THE SITE DESIGN:

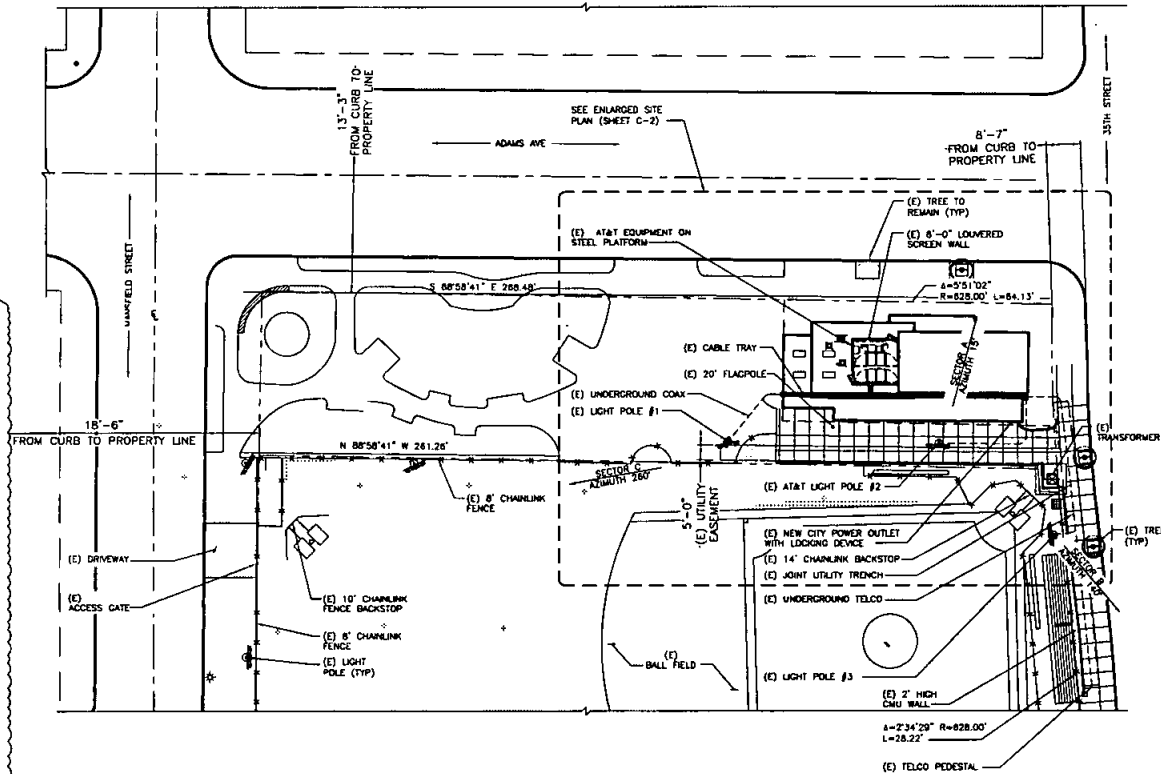
- MAINTAIN PRE-DEVELOPMENT RUNOFF CHARACTERISTICS;
- MINIMIZE IMPERVIOUS FOOT PRINT BY CONSTRUCTING WALKWAYS, PATIOS AND DRIVEWAYS WITH PERMEABLE SURFACES;
- CONSERVE NATURAL AREAS;
- USE NATURAL DRAINAGE SYSTEMS AS OPPOSED TO LINED SWALES OR UNDERGROUND DRAINAGE SYSTEMS;
- DRAIN ROOF TOPS, WALKWAYS, PATIOS AND DRIVEWAYS INTO ADJACENT LANDSCAPING TO DISCHARGING TO THE PUBLIC DRAINAGE SYSTEM;
- PRESERVE EXISTING NATIVE TREES AND SHRUBS;
- PROTECT ALL SLOPES FROM EROSION.

ADDITIONALLY, I/WE WILL:

- MINIMIZE THE USE OF PESTICIDES;
- USE EFFICIENT IRRIGATION SYSTEMS AND LANDSCAPING DESIGN, INCORPORATING RAIN SHUTOFF DEVICES AND FLOW REDUCERS AS NEEDED.

I/WE WILL MAINTAIN THE ABOVE STANDARD PERMANENT BMP'S FOR THE DURATION OF THE LEASE.

LESSEE: KEVIN C BECKER COMPANY NAME: AT&T MOBILITY
(PRINT NAME)
LESSEE: KEVIN C BECKER DATE: _____
(SIGNATURE)



SITE PLAN



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO: 122082

DRAWN BY: SAN

CHECKED BY: JC

A 11/04/13 REV CD
REV DATE DESCRIPTION

NOT TO BE USED
FOR CONSTRUCTION

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TO ALTER THIS DOCUMENT.

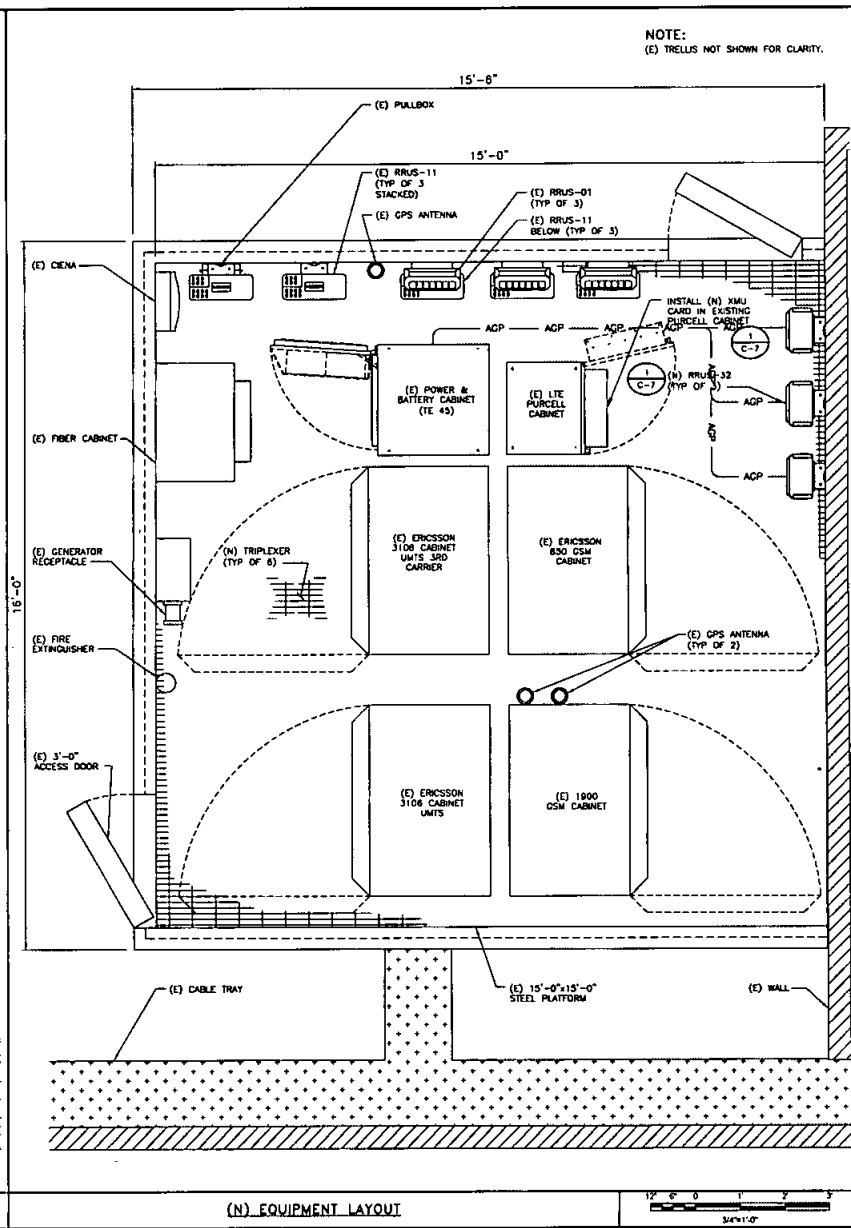
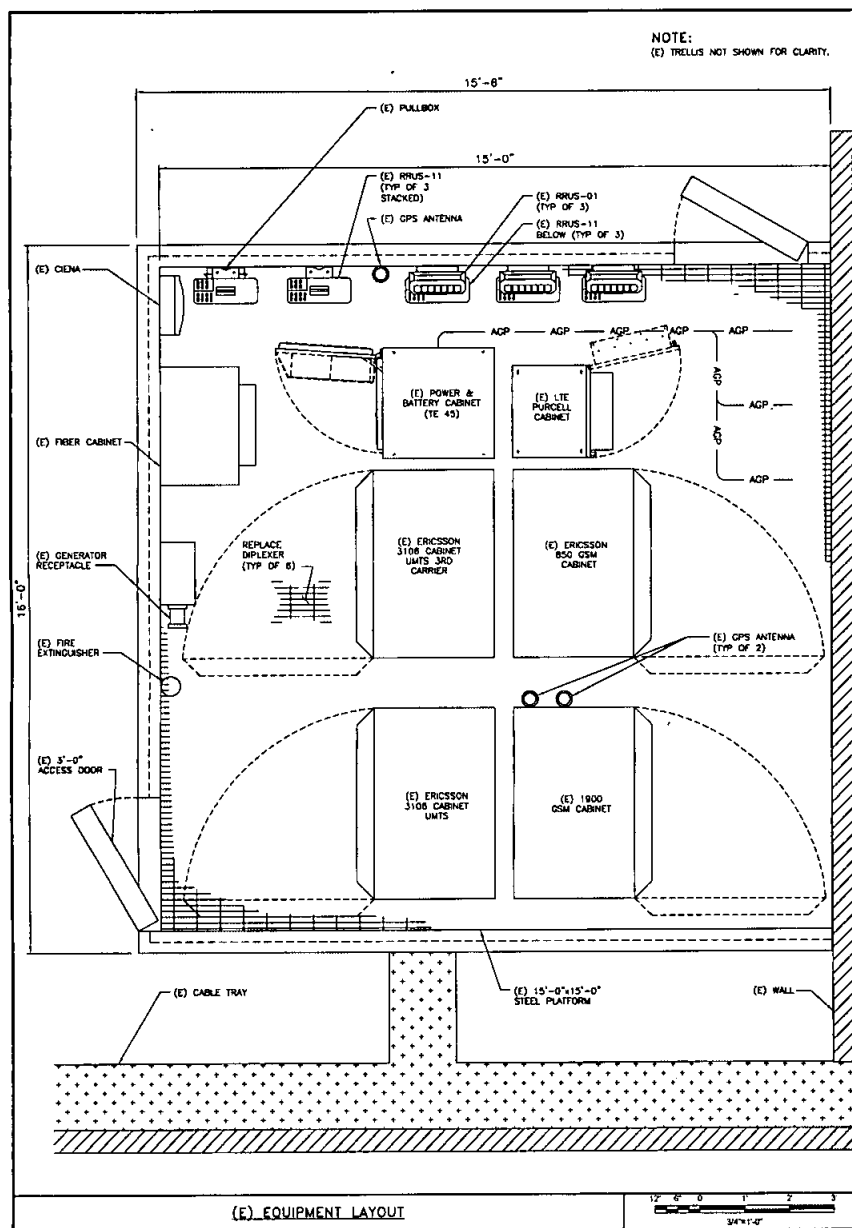
SS0025
ADAMS PARK
3491 ADAMS AVENUE
SAN DIEGO, CA 92116
LTE 3C

SHEET TITLE
SITE PLAN

SHEET NUMBER
C-1



1"=20'



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH
10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO: 122082

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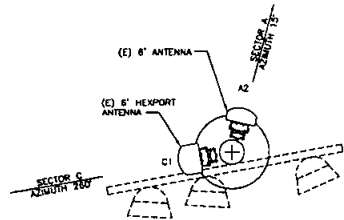
SHEET TITLE
EQUIPMENT LAYOUT

SHEET NUMBER

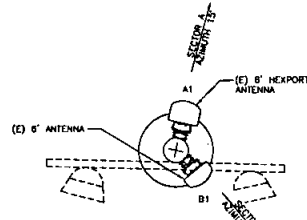
C-3

EXISTING ANTENNA SCHEDULE													
SECTOR	POS.	STATUS	ANTENNA	SIZE	AZMUTH	TIP HT	#	TMA	SURGE SUPPRESSOR	#	MODEL NO.	LENGTH	COAX/IBER
A	1	EXIST	CCI HPA 65R BUU H6	6'-0"	43'-0"	15	1	TMA2061F1V1-1				125' AT POLE #1	(6) 7/8" AT POLE #1
	2	EXIST	800 10766 K	6'-4"	35'-0"		2	TRIPLEXER DBC 0037F1V2-1					
	3	EXIST	800 10765 K	6'-4"	43'-0"		2	RRUS-11					
	4	EXIST	800 10765 K	6'-4"	35'-0"								
B	1	EXIST	800 10765 K	6'-4"	43'-0"	140	1	TMA2061F1V1-1				198' AT POLE #2	(6) 1-5/8" AT POLE #1
	2	EXIST	CCI HPA 65R BUU H6	6'-0"	35'-0"		2	TRIPLEXER DBC 0037F1V2-1					
	3	EXIST	800 10765 K	6'-4"	43'-0"		2	RRUS-11					
	4	EXIST	800 10765 K	6'-4"	35'-0"								
C	1	EXIST	CCI HPA 65R BUU H6	6'-0"	43'-0"	260	1	TMA2061F1V1-1				185' AT POLE #3	(6) 1-5/8" AT POLE #1
	2	EXIST	800 10766 K	6'-4"	35'-0"		2	TRIPLEXER DBC 0037F1V2-1					
	3	EXIST	800 10765 K	6'-4"	43'-0"		2	RRUS-11					
	4	EXIST	800 10765 K	6'-4"	35'-0"								

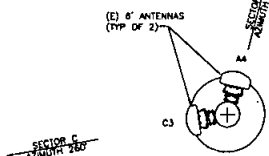
FINAL ANTENNA SCHEDULE													
SECTOR	POS.	STATUS	ANTENNA	SIZE	AZMUTH	TIP HT	#	TMA	SURGE SUPPRESSOR	#	MODEL NO.	LENGTH	TRANSMISSION LINE
A	1	EXIST	CCI HPA 65R BUU H6	6'-0"	43'-0"	15	1	TMA2117F00V1-1				125' AT POLE #1	(6) 7/8" AT POLE #1
	2	EXIST	800 10766 K	6'-4"	35'-0"		2	TRIPLEXER CBC 71726-DP					
	3	EXIST	800 10765 K	6'-4"	43'-0"		2	RRUS-11					
	4	EXIST	800 10765 K	6'-4"	35'-0"		2	RRUS-32					
B	1	EXIST	800 10765 K	6'-4"	43'-0"	140	1	TMA2117F00V1-1				198' AT POLE #2	(6) 1-5/8" AT POLE #1
	2	EXIST	CCI HPA 65R BUU H6	6'-0"	35'-0"		2	TRIPLEXER CBC 71726-DP					
	3	EXIST	800 10765 K	6'-4"	43'-0"		2	RRUS-11					
	4	EXIST	800 10765 K	6'-4"	35'-0"		2	RRUS-32					
C	1	EXIST	CCI HPA 65R BUU H6	6'-0"	43'-0"	260	1	TMA2117F00V1-1				185' AT POLE #3	(6) 1-5/8" AT POLE #1
	2	EXIST	800 10766 K	6'-4"	35'-0"		2	TRIPLEXER CBC 71726-DP					
	3	EXIST	800 10765 K	6'-4"	43'-0"		2	RRUS-11					
	4	EXIST	800 10765 K	6'-4"	35'-0"		2	RRUS-32					



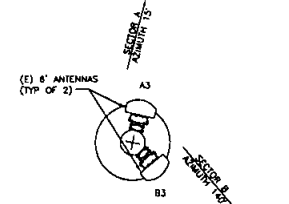
(E) ANTENNA LAYOUT SECTORS A & C
ANTENNA TIP @ 43'-0"
LIGHT POLE #1



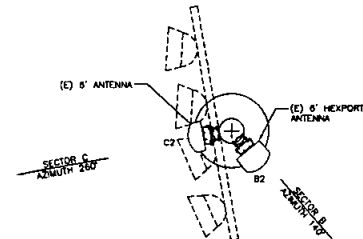
(E) ANTENNA LAYOUT SECTORS A & B
ANTENNA TIP @ 43'-0"
LIGHT POLE #2



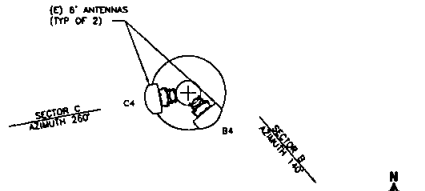
(E) ANTENNA LAYOUT SECTORS A & C
ANTENNA TIP @ 35'-0"
LIGHT POLE #1



(E) ANTENNA LAYOUT SECTORS A & B
ANTENNA TIP @ 35'-0"
LIGHT POLE #2



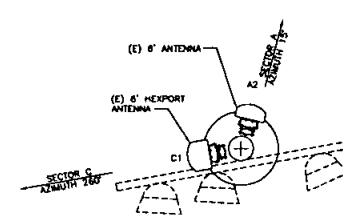
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ANTENNA TIP @ 43'-0"
LIGHT POLE #3



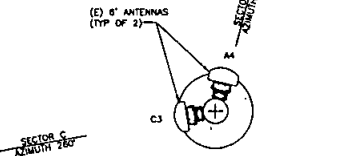
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ANTENNA TIP @ 35'-0"
LIGHT POLE #3

(E) ANTENNA LAYOUT

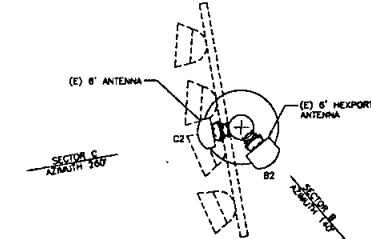
12' 6' 0' 1' 2' 3' 4' 5'



(E) ANTENNA LAYOUT SECTORS A & C
ANTENNA TIP @ 43'-0"
LIGHT POLE #1



(E) ANTENNA LAYOUT SECTORS A & C
ANTENNA TIP @ 35'-0"
LIGHT POLE #1



(E) ANTENNA LAYOUT SECTORS B & C
ANTENNA TIP @ 43'-0"
LIGHT POLE #3

(N) ANTENNA LAYOUT

12' 6' 0' 1' 2' 3' 4' 5'



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 438-2000

PROJECT NO: 122082
DRAWN BY: SAN
CHECKED BY: JG

REV	DATE	DESCRIPTION
A	11/04/15	ISS CD

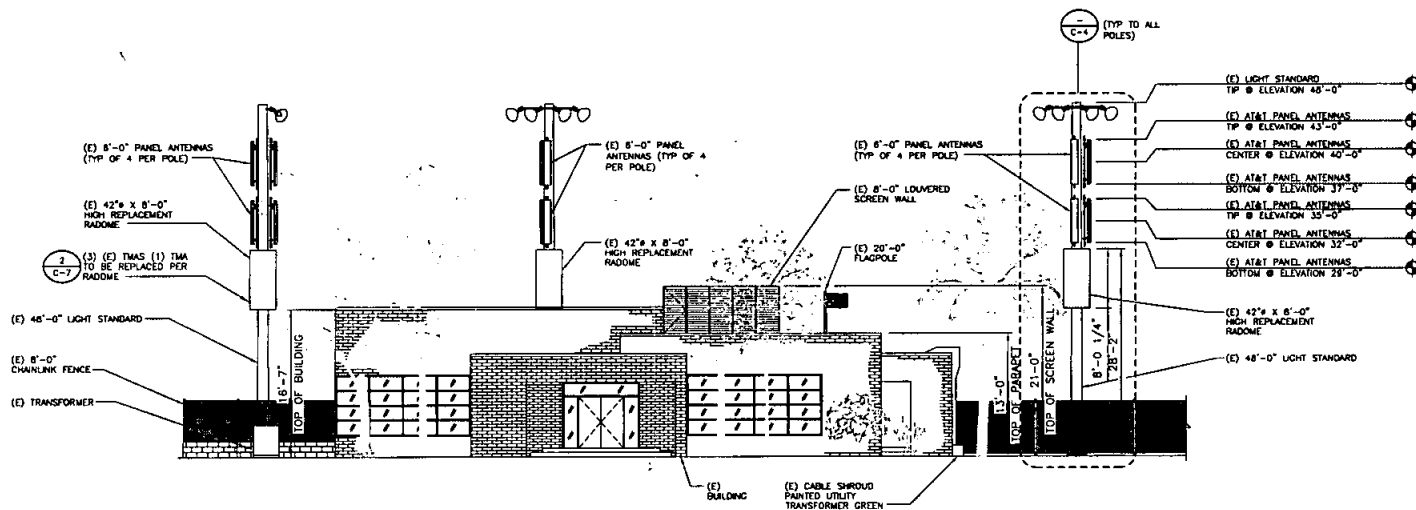
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LTE 3C

SHEET TITLE
ANTENNA LAYOUT
(EXISTING & NEW)

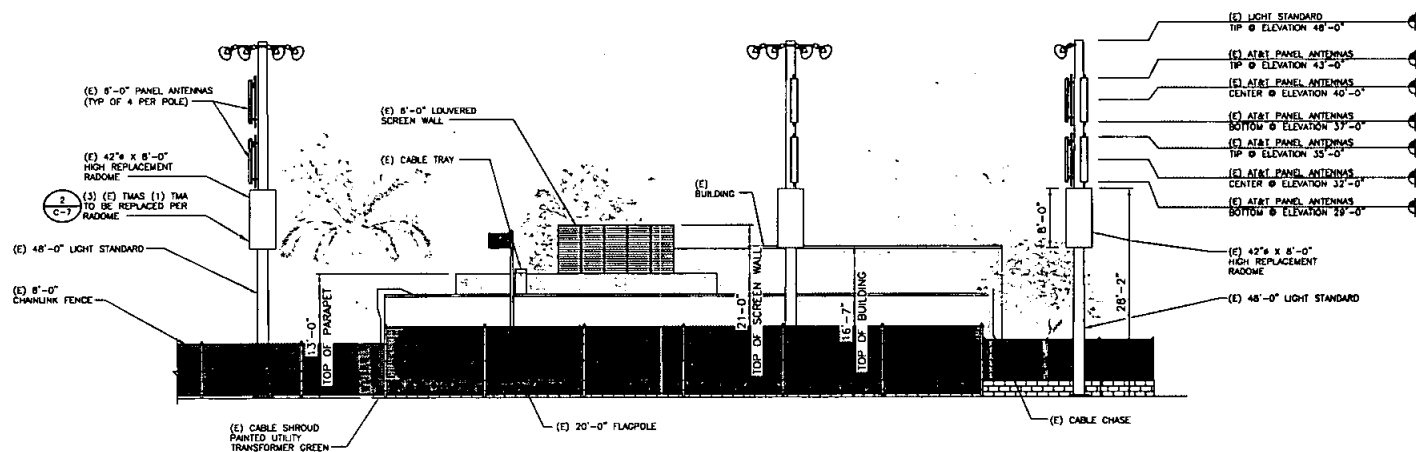
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C-4



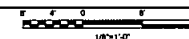
NORTH ELEVATION



A



SOUTH ELEVATION



B



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BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO: 122082

DRAWN BY: SAN

CHECKED BY: JO

REV	DATE	DESCRIPTION
A	11/04/18	REV CD

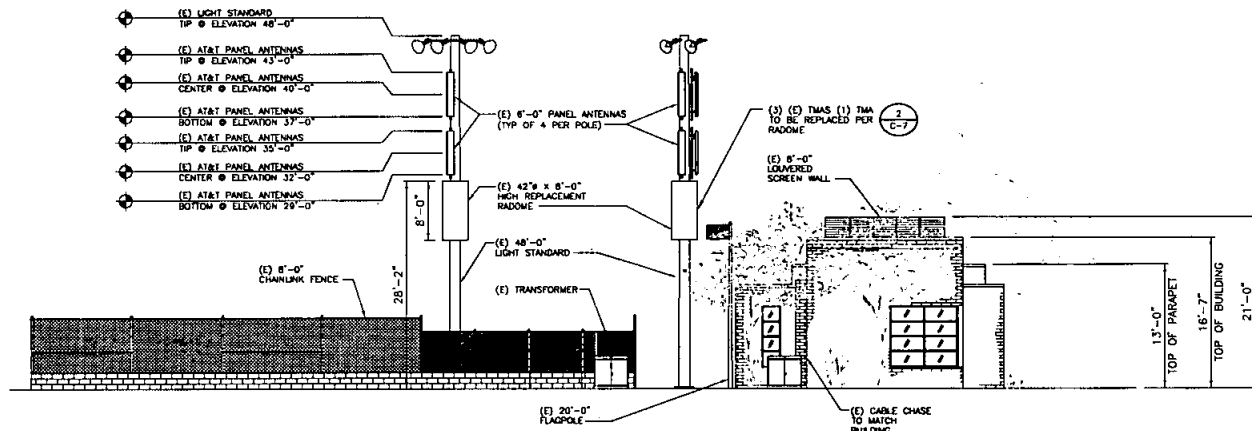
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SHEET TITLE
ELEVATIONS

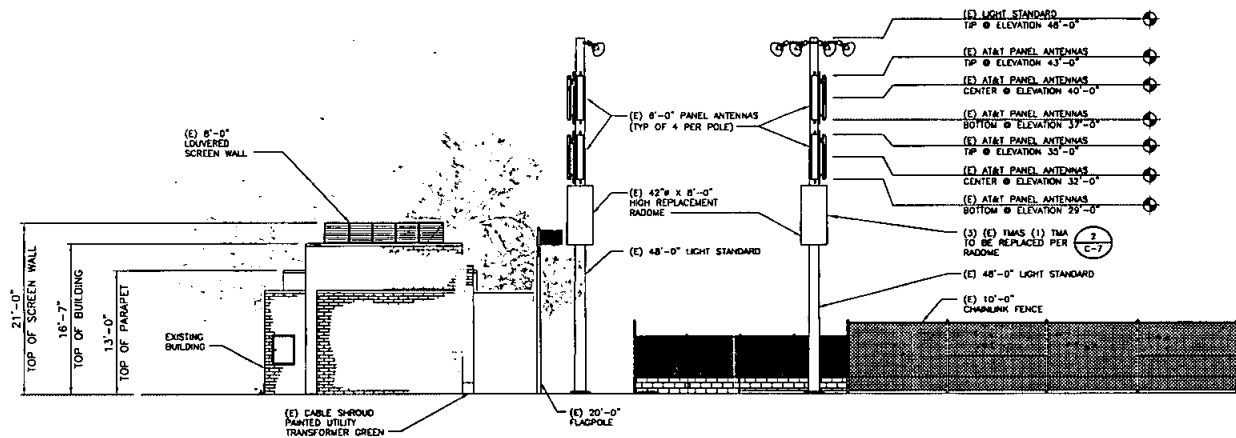
SHEET NUMBER
C-5



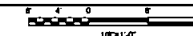
EAST ELEVATION



C



WEST ELEVATION



D



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO: 122082

DRAWN BY: SAN

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REV	DATE	DESCRIPTION
1	11/04/18	BOS CD

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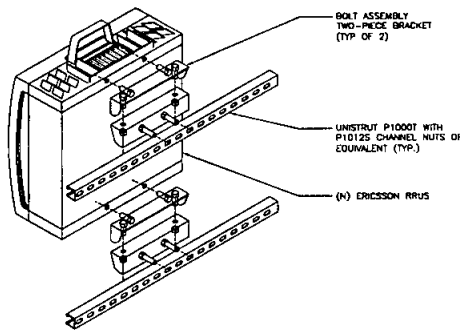
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SHEET TITLE
ELEVATIONS

SHEET NUMBER

C-6

ERICSSON RRUS-32 DIMENSIONS, WxDxH: (mm) 307x170x678 60 lbs TOTAL WEIGHT:	IMA 2117E00V1-1 BANDWIDTH: 1930 - 1990MHz BYPASS BW: 700/850 MHz DIMENSION: REFER TO DIAGRAM WEIGHT: 8 KG (17.4 LB) FINISH: RAL7035, LIGHT GREY CONNECTOR: (8) DIN 7/16 (7)	CBC71726-DP / E11E01P93 DIMENSION: REFER TO DIAGRAM WEIGHT: 3.2 KG (7.2 LB) CONNECTORS: 4 x 7/16 FEMALE DESCRIPTION: 700MHz/850MHz/PCS-AWS TRIPLEXER			
(N) RRUS DETAIL OR EQUAL	(N) IMA DETAIL OR EQUAL	(N) TRIPLEXER OR EQUAL	NOT USED	NOT USED	NOT USED
					
RRUS MOUNTING DETAIL		NOT USED	NOT USED	NOT USED	NOT USED
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED



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SAN DIEGO, CA 92121



10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO: 122082
DRAWN BY: SAM
CHECKED BY: JC

REV	DATE	DESCRIPTION

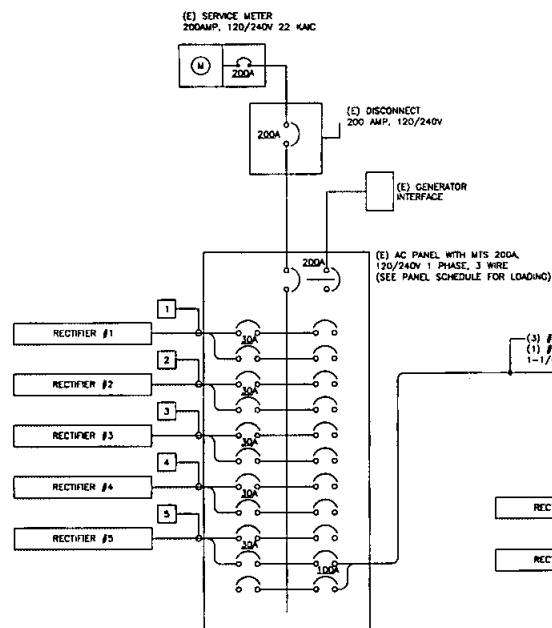
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LTE 3C

SHEET TITLE
DETAILS

SHEET NUMBER
C-7



NO	FROM	TO	CONFIGURATION
1	EXISTING AC PANEL	RECTIFIER #1	(2) #10, (1) #10 AWG CNG
2	EXISTING AC PANEL	RECTIFIER #2	(2) #10, (1) #10 AWG CNG
3	EXISTING AC PANEL	RECTIFIER #3	(2) #10, (1) #10 AWG CNG
4	EXISTING AC PANEL	RECTIFIER #4	(2) #10, (1) #10 AWG CNG
5	EXISTING AC PANEL	RECTIFIER #5	(2) #10, (1) #10 AWG CNG
6	NEW AC SUB-PANEL	RECTIFIER #6	(2) #10, (1) #10 AWG CNG
7	NEW AC SUB-PANEL	RECTIFIER #7	(2) #10, (1) #10 AWG CNG
8	NEW AC SUB-PANEL	RECTIFIER #8	(2) #10, (1) #10 AWG CNG

NOTES:

1. RECTIFIERS 1-5 CIRCUITS RAN TOGETHER IN MINIMUM 1-1/4" EMT CONDUIT
2. RECTIFIERS 6-8 CIRCUITS RAN TOGETHER IN MINIMUM 1" EMT CONDUIT.

1. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THE PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
2. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CALIFORNIA ELECTRICAL CODES AND ALL STATE AND LOCAL CODES, LAWS, AND ORDINANCES. PERMIT REQUIREMENTS AND WORKING SIZES AS REQUIRED TO MEET OEC STANDARDS.
3. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO CONSTRUCTION.
4. CONDUIT RUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION CONFLICTS. VERIFY WITH THE MECHANICAL EQUIPMENT CONTRACTOR AND COMPLY AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE ALL BREAKERS, CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETE SYSTEM.
6. CONTRACTOR SHALL PROVIDE PULL BOXES AND JUNCTION BOXES AS REQUIRED BY THE OEC ARTICLE 314.
7. CONTRACTOR SHALL PROVIDE ALL STRAIN RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
8. ALL DISCONNECTS AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING EQUIPMENT CONTROLLED. BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FIED FROM.
9. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND ARTICLE 250. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE BONDDED AT ALL JUNCTION BOXES, PULL BOXES, AND ALL DISCONNECT SWITCHES, AND EQUIPMENT CABINETS.
10. ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.
11. PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST-CONSTRUCTION EQUIPMENT.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR AS-BUILT PANEL SCHEDULE AND SITE DRAWINGS.
13. SUB-PANEL TO BE SQUARE-D Q0120.1250C OR ENGINEER APPROVED EQUIVALENT.

AC ONE-LINE DIAGRAM

SCALE
NIS

NOTES:

PENDING ELECTRICAL REVIEW

LOAD CENTER SCHEDULE - MAIN

PENDING ELECTRICAL REVIEW

LOAD CENTER SCHEDULE - SUB-PANEL



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO: 122052

DRAWN BY: SAN

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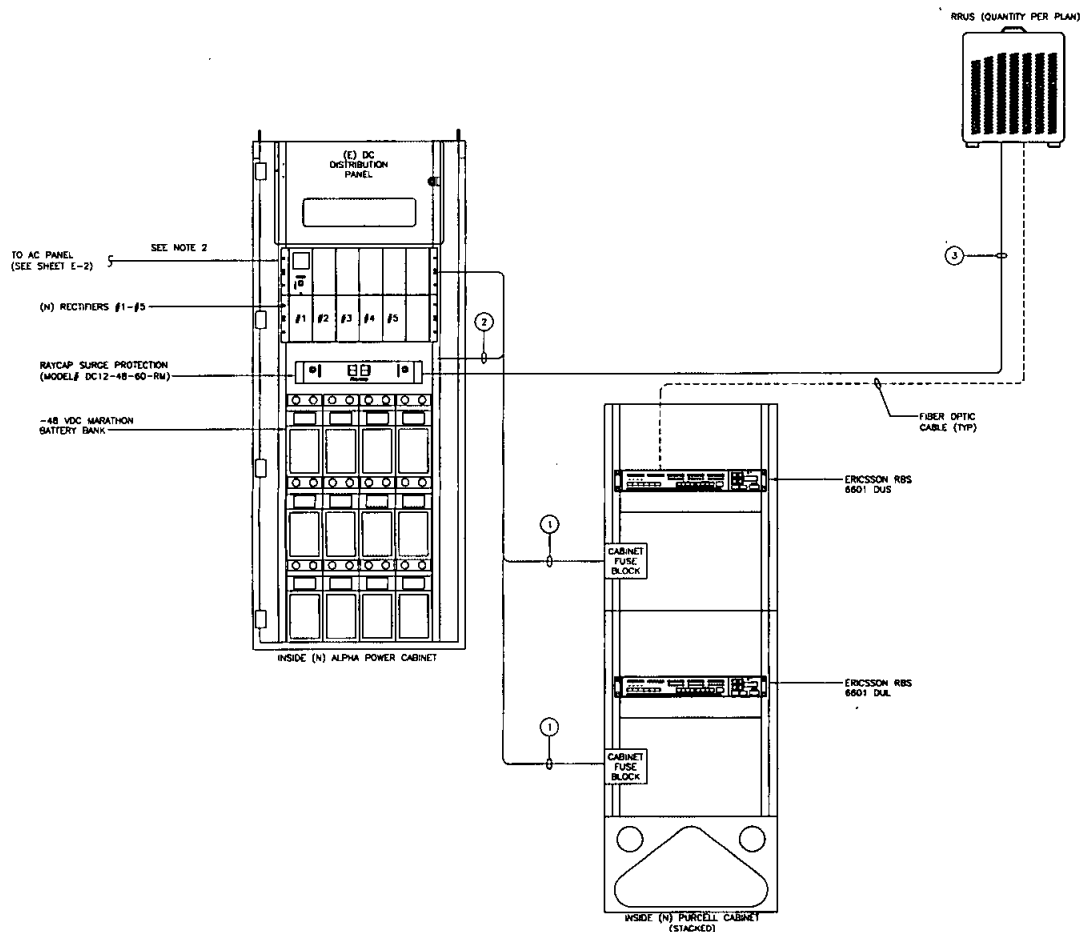
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LTE 3C

SHEET TITLE
ELECTRICAL AC
ONE-LINE DIAGRAM

SHEET NUMBER

E-2



ELECTRICAL DC ONE-LINE DIAGRAM (TOWER - OUTDOOR EQUIPMENT)

FIBER OPTIC CABLE
DC POWER CABLE

LEGEND

1. THESE ELECTRICAL PLANS ARE SUPPLEMENTARY TO CIVIL ENGINEERING ACTIVITIES, AS DEFINED BY CAL. BUS. & PROF. CODE §6731. THEREFORE, IN ACCORDANCE WITH CAL. BUS. & PROF. CODE §6737.2, THESE PLANS HAVE BEEN PREPARED UNDER THE RESPONSIBLE CHARGE OF THE CAL. LICENSED AND REGISTERED ARCHITECT OR ENGINEER WHOSE SEAL AND SIGNATURE APPEAR ON PLANS.
2. DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING +24V AND -48V CONDUCTORS. RED MARKINGS SHALL IDENTIFY +24V AND BLUE MARKINGS SHALL IDENTIFY -48V. REFER TO ATT-002-290-701.
3. NON-LITE DC POWER WIRING SIZE 14 AWG TO 10 AWG SHALL BE TELCOFLEX IV. DC POWER WIRING 8 AWG AND LARGER SHALL BE TELCOFLEX IV.
4. LITE POWER WIRING SHALL BE IN ACCORDANCE WITH ATT-002-290-531.
5. DC ELECTRICAL LOAD DEMAND FOR PROPOSED ADDITIONS WERE INCLUDED IN THE PRIOR AC LOAD CALCULATION.

PER SITE REQUIREMENTS NOTES

DC CIRCUIT SCHEDULE

	FROM	TO	CONFIGURATION
①	ALPHA 48VDC POWER PLANT	CABINET FUSE BLOCK	(4) #12 TELCOFLEX IV-ER DC CABLE
②	ALPHA 48VDC POWER PLANT	RAYCAP SURGE PROTECTION DC12-48-60-RM	(24) #10 TELCOFLEX IV-ER DC CABLE
③	RAYCAP SURGE PROTECTION DC12-48-60-RM	RRUS (REMOTE RADIO UNIT)	(1) 2-#12 THHN/THWN/VW-1 TYPE TC-ER DC CABLE
④			

SCHEDULE



5758 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO: 132082

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CHECKED BY: JG

11/24/19 908 02
REV DATE DESCRIPTION

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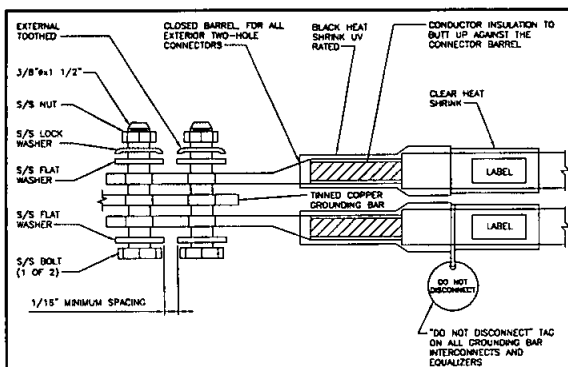
SHEET TITLE
ELECTRICAL DC
ONE-LINE DIAGRAM

SHEET NUMBER

E-3

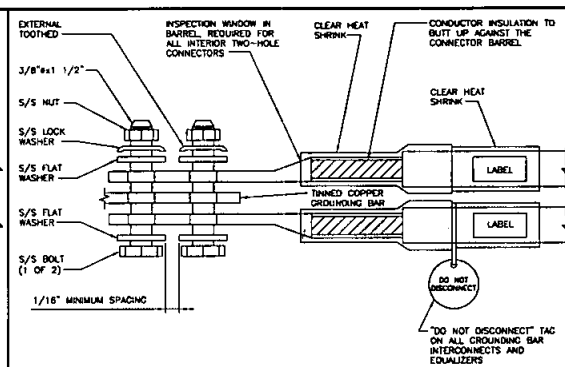
SCALE
NTS

NOT USED



EXTERIOR TWO HOLE LUG DETAIL

SCALE
NTS A



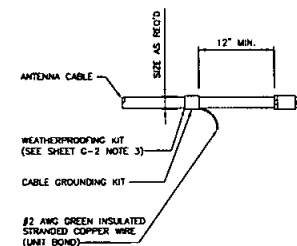
INTERIOR TWO HOLE LUG DETAIL

SCALE
NTS B

1. EXOTHERMIC WELD #2 AWG BARE TINNED SOLID COPPER CONDUCTOR TO GROUND BAR. ROUTE CONDUCTOR TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
2. ALL GROUND 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", "T") WITH 1" HIGH LETTERS.
3. ALL HARDWARE SHALL BE STAINLESS STEEL. 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
4. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
5. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUNDING CONDUCTOR DOWN TO GROUNDING BUS.
6. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND 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.
7. SUPPLIED AND INSTALLED BY CONTRACTOR.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BARS AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
9. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHIMMERS).

NOTES

SCALE
NTS C

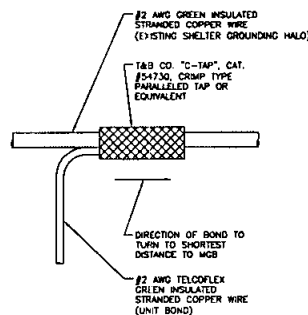


CABLE GROUNDING KIT TO ANTENNA CABLE

SCALE
NTS F

NOT USED

SCALE
NTS E



GROUNDING WIRE CONNECTION

SCALE
NTS H

NOT USED

SCALE
NTS G

NOT USED

SCALE
NTS J



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OVERLAND PARK, KANSAS 66210
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LTE 3C

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER

G-2

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR - OVERLAND CONTRACTING INC. (BAY)
SUBCONTRACTOR - CONTRACTOR (CONSTRUCTION)
OWNER - AT&T
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS.
3. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING 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.
4. 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 LIMITS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC 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. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER AND DSA PRIOR TO PROCEEDING.
10. 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.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICES. ALL MEMBERS SHALL BE LAD PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL ANY PENETRATION WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND OUTSIDE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADDED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADDED LINES AND NOTES. SUBCONTRACTOR SHALL MAINTAIN THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT ORIGINATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE SUBCONTRACTOR SHALL PROTECT EXISTING INFRASTRUCTURE, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRUCKS AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A10-B-C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. 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 PIERS 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) TRENCHING & EXCAVATION.
23. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, 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.
24. 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 SLOPE, AND STABILIZED TO PREVENT EROSION.
25. SUBCONTRACTOR SHALL MINIMIZE 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 EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
26. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 90 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
27. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
28. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
29. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT RECORDS TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
30. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
31. THE PROPOSED FACILITY WILL BE UNHABITABLE AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
32. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
33. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
34. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILE GROUNDING STANDARD TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES AND TECHNICAL SPECIFICATION FOR FACILITY GROUNDING. IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
35. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
36. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
37. 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 IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
38. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

GENERAL NOTES

EXOTHERMIC CONNECTION

MECHANICAL CONNECTION

CHEMICAL ELECTROLYTIC GROUNDING SYSTEM

TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM

EXOTHERMIC WITH INSPECTION SLEEVE

GROUNDING BAR

GROUND ROD

TEST GROUND ROD WITH INSPECTION SLEEVE

SINGLE POLE SWITCH

DUPLEX RECEPTACLE

DUPLEX GFCI RECEPTACLE

FLUORESCENT LIGHTING FIXTURE (2) TWO LAMPS 48-18

SMOKE DETECTION (DC)

EMERGENCY LIGHTING (DC)

SECURITY LIGHT W/PHOTOCELL, LITHONIA ALLOW LED-1-25A400/S1K-SR4-120-PE-DOBXTD

CHAINLINK FENCE

WOOD/WROUGHT IRON FENCE

WALL STRUCTURE

LEASE AREA

PROPERTY LINE (PL)

SETBACKS

ICE BRIDGE

CABLE TRAY

WATER LINE

UNDERGROUND POWER

UNDERGROUND TELCO

OVERHEAD POWER

OVERHEAD TELCO

UNDERGROUND TELCO/POWER

ABOVE GROUND POWER

ABOVE GROUND TELCO

ABOVE GROUND TELCO/POWER

ABOVE GROUND FIBER

ABOVE GROUND FIBER/POWER

UNDERGROUND FIBER

UNDERGROUND FIBER/POWER

UNDERGROUND DUCT

ABOVE GROUND POWER/AC

ABOVE GROUND POWER/DC

SECTION REFERENCE

DETAIL REFERENCE

ELEVATION REFERENCE

BREAKLINE

LEGEND

ANCHOR BOLT

ABOVE

ALTERNATING CURRENT

ADDITIONAL

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

AMPERAGE INTERRUPTION CAPACITY

ALUMINUM

ALTERNATE

ANTENNA

APPROXIMATE

ARCHITECTURAL

ATS AUTOMATIC TRANSFER SWITCH

AMERICAN WIRE GAUGE

BATTERY

BUILDING

BLOCK

BLOCKING

BEAM

BARE TANNED COPPER CONDUCTOR

BOTTOM OF FOOTING

CABINET

CANTILEVERED

CALIFORNIA ELECTRIC CODE

CHARGING

CULING

CLEAR

COLUMN

COMMON

CONCRETE

CONSTRUCTION

DOUBLE

DIRECT CURRENT

DEPARTMENT

DOUGLAS FIR

DIAMETER

DIAAGONAL

DIMENSION

DRAWING

DWELL

DOWEL

EACH

ELECTRICAL CONDUCTOR

ELEVATION

ELECTRICAL METALLIC TUBING

ENGINEER

EQUAL

EXPANSION

EXTERIOR

FABRICATION

FINISH FLOOR

FINISH GRADE

FACILITY INTERFACE FRAME

FLOOR

FOUNDATION

FACE OF CONCRETE

FACE OF MASONRY

FACE OF STUD

FACE OF WALL

FINISH SURFACE

FOOT

FOOTING

GAUGE

GENERATOR

GROUND FAULT CIRCUIT INTERRUPTER

GLUE LAMINATED BEAM

CALVANIZED

GLOBAL POSITIONING SYSTEM

GROUND

GLOBAL SYSTEM FOR MOBILE

HEADER

HANGER

HEAT/VENTILATION/AIR CONDITIONING

HEIGHT

INTERIOR GROUND RING

INCH

INTERIOR

POUNDS(S)

LINEAR FEET

LONG TERM EVOLUTION

MASONRY

MAXIMUM

MACHINE BOLT

MECHANICAL

MANUFACTURER

MASTER GROUND BAR

MINIMUM

MISCELLANEOUS

WIRE

MANUAL TRANSFER SWITCH

MICROWAVE

NEW

NATIONAL ELECTRIC CODE

NUMBER

NOT TO SCALE

ON CENTER

OPENING

PROPOSED

PRECAST CONCRETE

PERSONAL COMMUNICATION SERVICES

PRIMARY CONTROL UNIT

PRIMARY RADIO CABINET

POLYMERIZING PRESERVING

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

PRESSURE TREATED

POWER CABINET

QUANTITY

RADIUS

RECTIFIER

REFERENCE

REINFORCEMENT

REQUIRED

REMOTE ELECTRIC TILT

RIGID METALLIC CONDUIT

REMOTE RADIO HEAD

REMOTE RADIO UNIT

RACEWAY

SCHEDULE

SHEET

SMART INTEGRATED DEVICE

SIMILAR

SPECIFICATION

SQUARE

STAINLESS STEEL

STANDARD

STEEL

STRUCTURAL

TEMPORARY

THICKNESS

TOWER WIRELESS SITE

TOE WALL

TOP OF ANTENNA

TOP OF CURBS

TOP OF FOUNDATION

TOP OF PLATE (PARAPET)

TOP OF STEEL

TOP OF WALL

TRANSIENT VOLTAGE SUPPRESSION SYSTEM

TYPICAL

UNDERGROUND

UNDERWRITERS LABORATORY

UNLESS NOTED OTHERWISE

UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM

UNINTERRUPTIBLE POWER SYSTEM

(DC POWER PLANT)

VERIFIED IN FIELD

WIDE

WITH

WOOD

WORK POINT

WEATHERPROOF

WEIGHT

ABBREVIATIONS



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO: 122082
DRAWN BY: SAN
CHECKED BY: JC

11/24/15 REV. 02
REV. DATE DESCRIPTION

NOT TO BE USED
FOR CONSTRUCTION

IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SS0025
ADAMS PARK
3491 ADAMS AVENUE
SAN DIEGO, CA 92116
LTE 3C

SHEET TITLE
GENERAL NOTES
LEGEND & ABBREVIATIONS

SHEET NUMBER

GN-1

PART 1 - GENERAL

1.1 GENERAL CONDITIONS:

- CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE SUBCONTRACTOR'S FUNCTIONS, 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.
- THE SUBCONTRACTOR SHALL OBTAIN PERMITS, LICENSES, MAKE ALL DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION PERFORMANCE FOR THE WORK UNDER THIS SECTION.
- 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 DETERMINE DIMENSIONS.

1.2 LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:

- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2013 EDITION OF THE CALIFORNIA ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. CONDUIT BENDS SHALL BE THE RADIUS BEND FOR THE TRADE SIZE OF CONDUIT IN COMPLIANCE WITH THE 2013 EDITION OF CEC.

1.3 REFERENCES:

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

- ANSI/NFPA (AMERICAN NATIONAL STANDARDS INSTITUTE)
- ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
- ICE (INSULATED CABLE ENGINEERS ASSOCIATION)
- NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
- NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
- OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
- UL (UNDERWRITERS LABORATORIES, INC.)
- AT&T GROUNDING AND BONDING STANDARDS TP-78416

1.4 SCOPE OF WORK:

- WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND ASSOCIATED SERVICES REQUIRED TO COMPLETE REQUIRED CONSTRUCTION AND BE OPERATIONAL.
- ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE SUBCONTRACTOR.
- THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.
- THE SUBCONTRACTOR SHALL FURNISH TO THE OWNER WITH CERTIFICATES OF A FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION.
- THE SUBCONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING EQUIPMENT CONDITIONS, AND CHANGES WHILE COMPLETING THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED AT COMPLETION OF THE PROJECT.

PART 2 - PRODUCTS

2.1 GENERAL:

- ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED, NEW, AND FREE FROM DEFECTS.
- ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.
- ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL AND SHALL CONFORM TO REQUIREMENTS OF THE CALIFORNIA ELECTRICAL CODE.
- ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 10,000 AC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.

2.2 MATERIALS AND EQUIPMENT:

- CONDUIT:
 - RIGID METAL CONDUIT (RMC) SHALL BE HOT-DIPPED GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.
 - LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE UL LISTED.
 - CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS SHALL BE COMPRESSION AND CONCRETE TIGHT TYPE. GROUNDING BUSHINGS WITH INSULATED THREADS SHALL BE INSTALLED ON ALL CONDUIT TERMINATIONS.
 - NONMETALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC. INSTALL USING SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER.
- CONDUCTORS AND CABLE:
 - CONDUCTORS AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, SIZE AS INDICATED, #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR USED.
 - #10 AWG AND SMALLER CONDUCTOR SHALL BE SOLID OR STRANDED AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
 - SOLDERLESS, COMPRESSION-TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED CONDUCTORS.
 - STRAIN-RELIEF SUPPORTS GRIPS SHALL BE HUBBELL KELLEMS OR APPROVED EQUAL. CABLES SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC AND CABLE MANUFACTURER'S RECOMMENDATIONS.
- ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR, AT ALL PULL BOXES, J-BOXES, EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS (ACTION CRAFT, BRAY, OR APPROVED EQUAL).

C. DISCONNECT SWITCHES:

- DISCONNECT SWITCHES SHALL BE HEAVY DUTY, DEAD-FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION, RATING AS INDICATED, UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE-D OR ENGINEERED APPROVED EQUAL.

D. CHEMICAL ELECTROLYTIC GROUNDING SYSTEM:

- INSTALL CHEMICAL GROUNDING AS REQUIRED. THE SYSTEM SHALL BE ELECTROLYTIC MAINTENANCE FREE ELECTRODE CONSISTING OF RODS WITH A MINIMUM #2 AND 6V EXTERNALLY WELDED RIGID PROTECTIVE BOXES, AND BACKFILL MATERIAL. MANUFACTURER SHALL BE LYNCOLE XIT GROUNDING ROD TYPES X2-1NCS OR X2L-1NCS, (1 1/2" OR 2" AS AVAILABLE FROM MANUFACTURER, BUT NOT LESS THAN 6" MIN [REQUIRED PER CEC 250.5.4 (5)].

- GROUND ACCESS BOX SHALL BE A POLYPLASTIC BOX FOR NON-TRAFFIC APPLICATIONS, INCLUDING BOLT DOWN FLUSH WITH TIGHTER HOLES, KIT WOOD #18-22, ALL DISCONNECT SWITCHES AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LANDMARK MARKERS INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS & NUMBERING, AND THE ELECTRICAL POWER SOURCE.
- BACKFILL MATERIAL SHALL BE LYNCOLEITE AND LYNCOLE GROUNDING GRAVEL.

E. SYSTEM GROUNDING:

- ALL GROUNDING COMPONENTS SHALL BE TINED AND GROUNDING CONDUCTOR SHALL BE #2 AWG BARE, SOLID, TINED, COPPER, NON-VEGETATIVE GROUNDING CONDUCTORS SHALL BE INSULATED WHERE NOTED.
- GROUNDING BUSES SHALL BE BARE, TINED, ANNEALED COPPER BARS OF RECTANGULAR CROSS SECTION. STANDARD BUS BARS MCB, SHALL BE FURNISHED AND INSTALLED BY THE SUBCONTRACTOR. THEY SHALL NOT BE FABRICATED OR MODIFIED IN THE FIELD. ALL GROUNDING BUSES SHALL BE IDENTIFIED WITH MINIMUM 3/4" LETTERS BY WAY OF STENCILING OR DESIGNATION PLATE.
- CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS. INTERIOR CONNECTIONS USE TWO-HOLE COMPRESSION LUGS WITH INSPECTION WINDOW AND CLEAR HEAT SHRINK.
- EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
- GROUND RODS SHALL BE COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLDED WELDED TO CORE, 5/8"x10"-10". ALL GROUNDING RODS SHALL BE INSTALLED WITH PROTECTION SLEEVES.
- INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS IN COMPLIANCE WITH THE AT&T GROUNDING AND BONDING STANDARDS TP-78416, AND THE CALIFORNIA ELECTRICAL CODE (2013 EDITION).

F. OTHER MATERIALS:

- THE SUBCONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.
- PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY CEC.
- PANELS AND LOAD CENTERS:
 - ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN.

PART 3 - EXECUTION

3.1 GENERAL:

- ALL MATERIAL, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN ON DSA APPROVED DWG'S.
- EQUIPMENT SHALL BE THOROUGHLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

3.2 LABOR AND WORKMANSHIP:

- ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY EXPERIENCED WORKMEN, IN A NEAT AND WORKMAN-LIKE MANNER.
- ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE SUBCONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
- UPON COMPLETION OF WORK, THE SUBCONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, GRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

3.3 COORDINATION:

- THE SUBCONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.

3.4 INSTALLATION:

- CONDUIT:
 - ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4" INCH TRADE SIZE.
 - PROVIDE RIGID PVC SCHEDULE 80 CONDUITS FOR ALL RISERS, RMC OTHERWISE NOTED. EMT MAY BE INSTALLED FOR EXTERIOR CONDUITS WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
 - THE INSTALLATION OF SCHEDULE 40 PVC AND RMC CONDUITS SHALL BE 24 INCHES MINIMUM DEPTH. ALL 90 DEGREE BENDS SHALL BE RMC EXPANSION JOINTS ARE REQUIRED ON ALL CONDUIT RISERS.
 - USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION TO EQUIPMENT WITH MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORT TO ALLOW FOR EXPANSION AND CONTRACTION.
 - A RUN OF CONDUIT BETWEEN BOXES OR EQUIPMENT SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF THREE QUARTER-BENDS. CONDUIT BEND SHALL BE MADE WITH THE UL LISTED BENDER OR FACTORY 90 DEGREE ELBOWS MAY BE USED.
 - FIELD FABRICATED CONDUITS SHALL BE CUT SQUARE WITH A CONDUIT CUTTING TOOL AND REAMED TO PROVIDE A SMOOTH INSIDE SURFACE.
 - PROVIDE INSULATED GROUNDING BUSHING FOR ALL LOADCENTERS.
 - CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. SUBCONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
 - ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES. CONDUIT SHALL BE FREE OF DIRT AND DEBRIS.
 - INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END.
 - INSTALL 3" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUITS AND CONDUITS.
 - CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.
 - PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS UNLESS SPECIFICALLY SHOWN ON DSA APPROVED DWG'S. ANY CORING/OUTCUTTING REQUIRED TO COMPLETE THE WORK, BUT NOT SHOWN ON DSA APPROVED DWG'S SHALL BE SUBJECT TO DSA REVIEW AND APPROVAL PRIOR TO BEGINNING ON SUCH WORK. SLEEVES AND/OR PENETRATION SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE, AND FLAMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.

B. CONDUCTORS AND CABLE:

1. ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:

DESCRIPTION	208/240/120 VOLT SYSTEMS
PHASE A	BLACK
PHASE B	BLUE
PHASE C	RED
NEUTRAL	WHITE
GROUNDING	GREEN

- SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, OR ACCESSIBLE RACEWAY CONDUITS APPROVED FOR THIS PURPOSE.
- PULLING LUBRICANTS SHALL BE UL APPROVED. SUBCONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CONDUIT OR CABLES INTO THE CONDUIT.
- CABLES SHALL BE NEATLY TRIMMED, WITHOUT INTERLACING, AND BE OF SUFFICIENT LENGTH IN ALL BOXES & EQUIPMENT TO PERMIT MAKING A NEAT ARRANGEMENT. CABLES SHALL BE SECURED IN A MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS. CONDUCTORS SHALL BE PROTECTED FROM MECHANICAL ABUSE AND MOISTURE. SHARP BENDS OVER CONDUIT BUSHINGS IS PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE SUBCONTRACTOR'S EXPENSE.

C. DISCONNECT SWITCHES:

- INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB, CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.

D. GROUNDING:

- ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING MANUFACTURER, AT&T GROUNDING AND BONDING STANDARDS TP-78416, AND THE CALIFORNIA ELECTRICAL CODE (2013 EDITION).
- PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEM INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
- ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH MINIMUM BEND AS REQUIRED. GROUNDING CONDUCTORS SHALL NOT BE LOOPEL OR SHARPLY BENT. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES.
- BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE SUBCONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM. THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 AWG COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL, COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). SEE STANDARD 8.3.2.2.
- TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTORS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
- SUBCONTRACTOR SHALL VERIFY THE LOCATIONS OF GROUNDING TIE-POINTS TO THE EXISTING GROUNDING SYSTEM. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BY THE INSPECTOR HAVING JURISDICTION BEFORE BEING PERMANENTLY CONCEALED.
- APPLY CORROSION-RESISTANCE FINISH TO FIELD CONNECTIONS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE COPR-SHIELD ANTI-OXIDATION COMPOUND ON ALL COMPRESSION GROUNDING CONNECTIONS.
- A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS.
- BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE 6 AWG GROUNDING CONDUCTOR TO A GROUND BUS.
- DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 36" MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE, USE THE GREATER OF THE TWO DISTANCES.
- ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
- THE INSTALLATION OF CHEMICAL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHER HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE.
- DRIVE GROUND RODS UNTIL TOPS ARE A MINIMUM DISTANCE OF 36" DEPTH OR 6" BELOW FROST LINE, USING THE GREATER OF THE TWO DISTANCES.
- IF COAX ON THE ICE BRIDGE IS MORE THAN 6 FT. FROM THE GROUNDING BAR AT THE BASE OF THE TOWER, A SECOND GROUNDING BAR WILL BE NEEDED AT THE END OF THE ICE BRIDGE, TO GROUND THE COAX CABLE GROUNDING KIT'S AND IN-LINE ARRESTORS.
- SUBCONTRACTOR SHALL REPAIR, AND/OR REPLACE EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE SUBCONTRACTOR'S EXPENSE.

3.5 ACCEPTANCE TESTING:

- CERTIFIED PERSONNEL USING CERTIFIED EQUIPMENT SHALL PERFORM REQUIRED TESTS AND SUBMIT WRITTEN TEST REPORTS UPON COMPLETION.
- WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NON-COMPLYING ITEMS SHALL BE REMOVED FROM THE PROJECT SITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE FOR NON-COMPLIANCE.
- TEST PROCEDURES:
 - ALL FEEDERS SHALL HAVE INSULATION TESTED AFTER INSTALLATION, BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. PROVIDE WRITTEN DOCUMENTATION FOR ALL TEST RESULTS.
 - PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
 - MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE CONDUCTORS AND NEUTRALS. SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES.
 - PERFORM GROUNDING TEST TO MEASURE GROUNDING RESISTANCE OF GROUNDING SYSTEM USING THE IEEE STANDARD 3-POINT "TALL-OF-POTENTIAL" METHOD. PROVIDE PLOTTED TEST VALUES AND LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO: 122082

DRAWN BY: SAN

CHECKED BY: JC

REV	DATE	DESCRIPTION
1	11/24/15	REV. CD
2		
3		
4		
5		
6		
7		
8		
9		
10		

NOT TO BE USED
FOR CONSTRUCTION

IF IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SS0025
ADAMS PARK
3491 ADAMS AVENUE
SAN DIEGO, CA 92116
LTE 3C

SHEET TITLE
GENERAL
ELECTRICAL NOTES

SHEET NUMBER
GN-2

GENERAL ELECTRICAL NOTES

Charles, Enza

From: Lynch, Karen
Sent: Tuesday, November 10, 2015 6:46 AM
To: Charles, Enza
Subject: RE: AT&S Site SS0025 Adams Park

Hi Enza,

Based on the plans, there will be no outward change in appearance since the mods will take place in the shelter and behind the radome so I don't think it needs an SCR.

Karen

Karen Lynch
Development Services . Project Management
Telecom Section
(619) 446-5351 . klynchash@sanidiego.gov
<http://www.sanidiego.gov/development-services/industry/information/telecom.shtml>

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From: Charles, Enza
Sent: Monday, November 09, 2015 3:48 PM
To: Lynch, Karen
Subject: FW: AT&S Site SS0025 Adams Park

Hi Karen:

Can you help me and let me know if this type of MOD requires a SCR... see email below and attached plans

Thanks,

Enza Charles | Property Agent
City of San Diego | Real Estate Assets - Telecommunications Division
1200 Third Avenue, Suite 1700, San Diego, CA 92101
(619) 236-6052 | Fax: (619) 236-6706
e-mail: echarles@sanidiego.gov

From: Goldman, Jeffrey [<mailto:GoldmanJ@bv.com>]
Sent: Monday, November 09, 2015 3:19 PM
To: Charles, Enza
Subject: AT&S Site SS0025 Adams Park

- Enza, I have attached the current plans and consent letter for SS0025 Adams Park. This category of project consists of a maintenance action on the part of AT&T since all elements will be located within the base station area and in the shroud enclosures; there will be no new mountings inside the shrouds. The placement of the

TMA's in the equipment shelter requires DC power only and therefore no permit. As such this project does not have stamped plans from the City. Please contact me with any questions or comments.

Jeff Goldman

Sr. Site Acquisition Specialist

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Telecommunications Division

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Email: goldmanj@bv.com