

City Consent Application

8/5/2016

(Date)

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

RE: Site Address: 8175 Regents Road, San
Diego (the "Property")
Site Name: Doyle Community Park (SS0076)

Agreement: Lease Agreement, dated 10/3/12 (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, NEW CINGULAR WIRELESS PCS, LLC
would like to perform the following modifications (changes) as described in the attached
stamped and approved plans, to the site referenced above:

POLE 1: REMOVE AND REPLACE (3) EXISTING RRUS-01 WITH (3) NEW RRUS-11
POLE 2: REMOVE AND REPLACE (3) EXISTING RRUS-11 WITH (3) NEW RRUS-12

Pursuant to Section 9.4, 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 equipment replacements or repairs)
without City's prior written approval." In order to comply with such requirement,

NEW CINGULAR WIRELESS PCS, LLC would like to request City's consent and approval to complete
the items described above.

Real Estate
Assets

Sincerely,

Cristobal Villegas

NEW CINGULAR WIRELESS PCS, LLC

, agent for _____

City Park & Rec. department has provided it's consent and approval to allow
NEW CINGULAR WIRELESS PCS, LLC to perform the proposed modifications described herein.

Kathleen R. Z

1/10/17

DATE

8/5/2016

Date

Signature

C. Villegas

CITY OF SAN DIEGO, ACKNOWLEDGEMENT AND CONSENT FOR MODIFICATION OF

8175 Regents Road, San Diego, CA 92122

(Site Location)

By: [Signature]

Name: CUBALE THOMPSON

Title: DIRECTOR, REAL ESTATE ASSETS

Date: 1/10/17

Real Estate
Assets

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
TA-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:

- REMOVE AND REPLACE (3) (E) RRUS-11 WITH (3) (N) RRUS-12 ON POLE #2
- REMOVE AND REPLACE (3) (E) RRUS-01 WITH (3) (N) RRUS-11 ON POLE #1

PROJECT INFORMATION

PROPERTY OWNER: CITY OF SAN DIEGO
ADDRESS: 180
SITE NAME: DOYLE COMMUNITY PARK
ADDRESS: 8175 REGENTS RD B
SAN DIEGO, CA 92122
SITE CONTACT: JAMES R. NEEDHAM
NUMBER: (949) 248-4685 EXT. 17
COUNTY: SAN DIEGO
LATITUDE (NAD 83): 32.865175
LONGITUDE (NAD 83): -117.21975
GROUND ELEVATION: 336.9' AMSL
ANTENNA TIP HEIGHT: 63' AGL
ZONING JURISDICTION: CITY OF SAN DIEGO
ZONING DISTRICT: OP-1-1
PARCEL #: 345-072-28
OCCUPANCY GROUP: U
CONSTRUCTION TYPE: V-B
OTHER WIRELESS FACILITIES: SPRINT
POWER COMPANY: SDG&E
TELEPHONE COMPANY: AT&T
RF ENGINEER: RAY JINDAL
NUMBER: (925) 922-4394
LEASING AGENT: JEFF GOLDMAN
NUMBER: (619) 806-0858
ZONING AGENT: JIM KENNEDY
NUMBER: (619) 993-1057
CONSTRUCTION MANAGER: PHILIP PUTCH
NUMBER: (216) 965-7809

LEGAL DESCRIPTION

CONTACT INFORMATION

ENGINEER: BLACK & VEATCH CORPORATION
10089 WILLOW CREEK RD, SUITE 350
SAN DIEGO, CA 92131
CONTACT: RAMIR MARIANO
(658) 774-2783



at&t

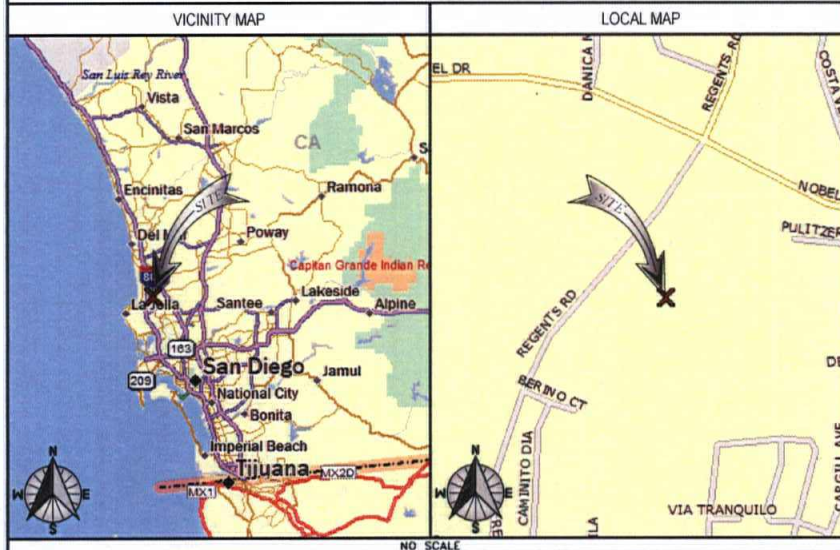
SS0076

DOYLE COMMUNITY PARK

LTE BWE / 5C

8175 REGENTS RD B
SAN DIEGO, CA 92122

LOCATION MAPS



DRIVING DIRECTIONS

DIRECTIONS FROM AT&T OFFICE:
HEAD SOUTHWEST ON PACIFIC CENTER BLVD TOWARD MCKELLAR CT; GO 0.1 MI. TURN LEFT AT LUSK BLVD; GO 0.6 MI. TURN RIGHT ONTO MIRA MESA BLVD; GO 0.8 MI. CONTINUE ONTO SORRENTO VALLEY ROAD; GO 0.2 MI. SLIGHT RIGHT ONTO THE INTERSTATE 805 S SLIP ROAD; GO 0.4 MI. MERGE ONTO I-805 SOUTH; GO 0.7 MI. USE THE RIGHT LANE TO TAKE EXIT 25 FOR MIRAMAR ROAD; GO 0.3 MI. USE THE RIGHT LANE 2 LANES TO TURN ONTO LA JOLLA VILLAGE DR; GO 1.0 MI. USE THE LEFT 2 LANES TO TURN LEFT ONTO REGENTES ROAD; GO 0.6 MI. TURN LEFT ONTO BERINO CT; GO 0.2 MI. SITE WILL BE ON THE RIGHT.

FA#: 10090264

PACE ID: MRSDL013357

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: _____
AT&T 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 - 879.6 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
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 DC ONE-LINE DIAGRAM
E-1.1	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

6800 W. 115TH STREET, SUITE 2292
OVERLAND PARK, KANSAS 66211
(913) 458-2000

PROJECT NO: 129071

DRAWN BY: CBG

CHECKED BY: JG

REV	DATE	DESCRIPTION
C	07/28/16	MARKET COMMENTS
B	06/09/16	MARKET COMMENTS
A	06/09/16	FOR CD

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.

SS0076
DOYLE COMMUNITY PARK
8175 REGENTS ROAD B
SAN DIEGO, CA 92122
LTE BWE / 5C

SHEET TITLE

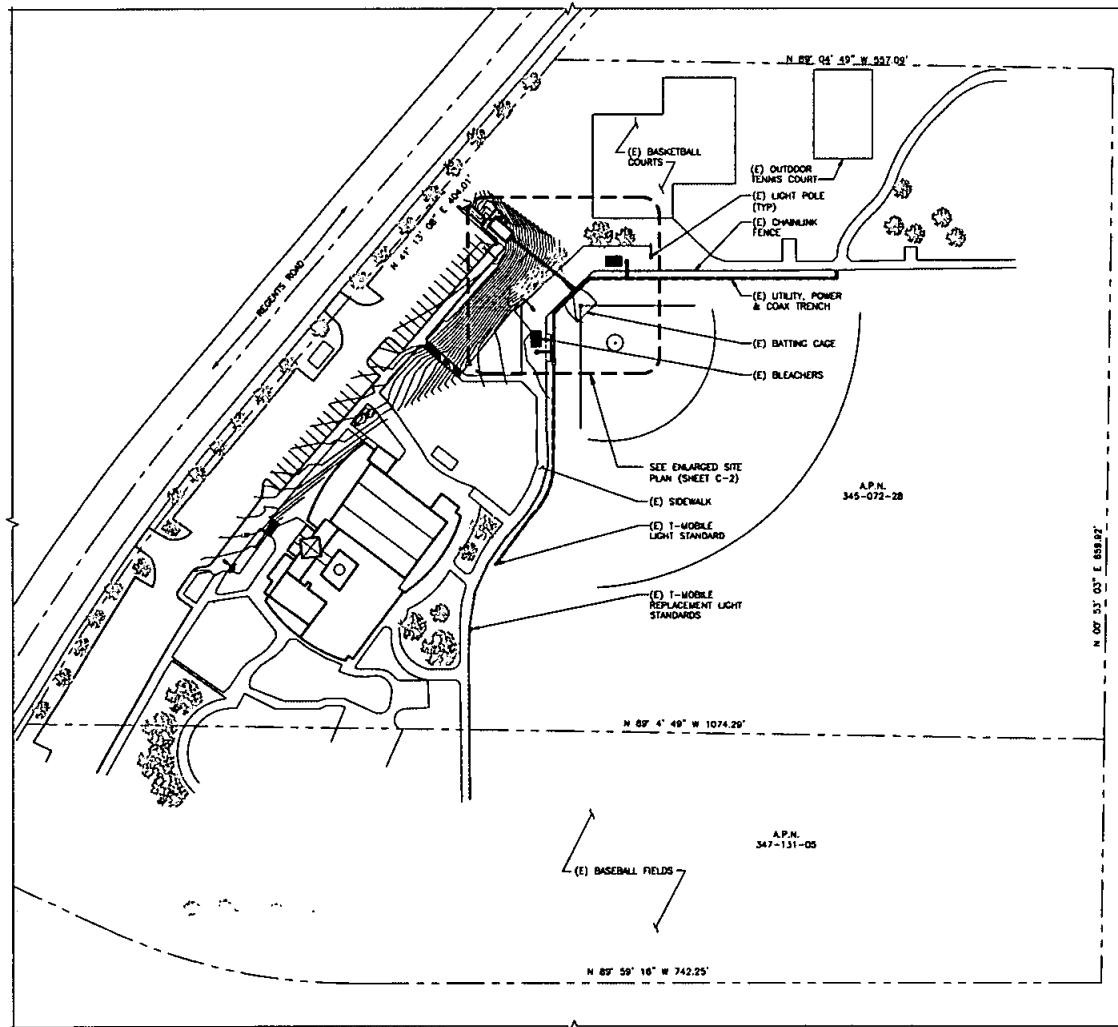
TITLE SHEET

SHEET NUMBER

T-1

NOTES:

1. THIS SITE PLAN HAS BEEN CREATED WITHOUT THE BENEFIT OF A SITE SURVEY AND SHOULD BE USED FOR CONCEPTUAL PURPOSES ONLY.
2. I, NOEL HERRERA, 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.



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

6800 W. 115TH STREET, SUITE 2292
OVERLAND PARK, KANSAS 66211
(913) 458-2000

PROJECT NO: 129071
DRAWN BY: GBO
CHECKED BY: JG

REV	DATE	DESCRIPTION
C	07/26/14	ISSUE COMMENTS
B	06/06/14	ISSUE COMMENTS
A	06/06/14	ISSUE COMMENTS

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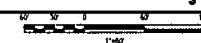
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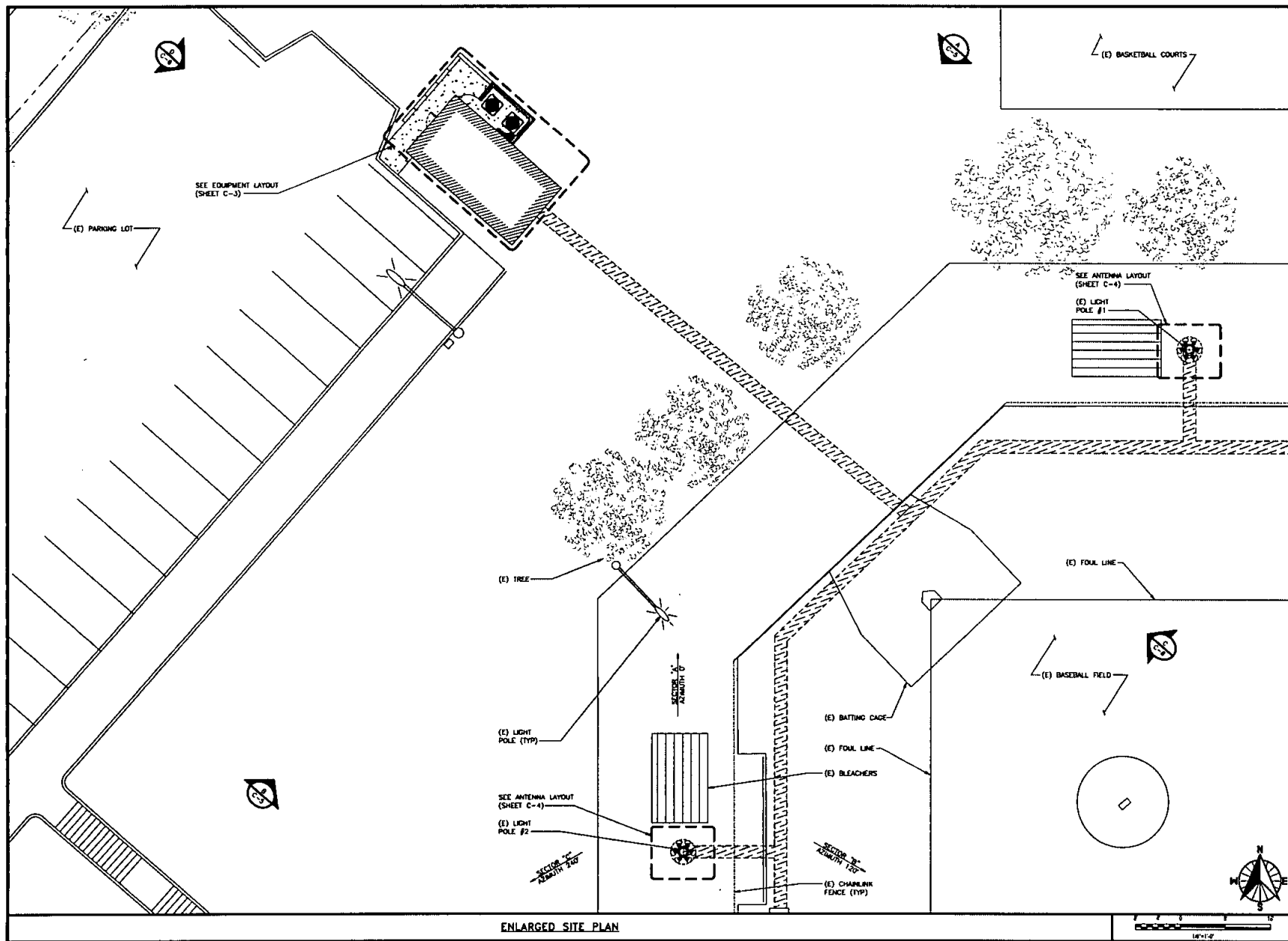
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SITE PLAN

SHEET NUMBER

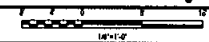
C-1

SITE PLAN





ENLARGED SITE PLAN



5736 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

6800 W. 115TH STREET, SUITE 2292
OVERLAND PARK, KANSAS 66211
(913) 458-2000

PROJECT NO: 129071
DRAWN BY: GBC
CHECKED BY: JG

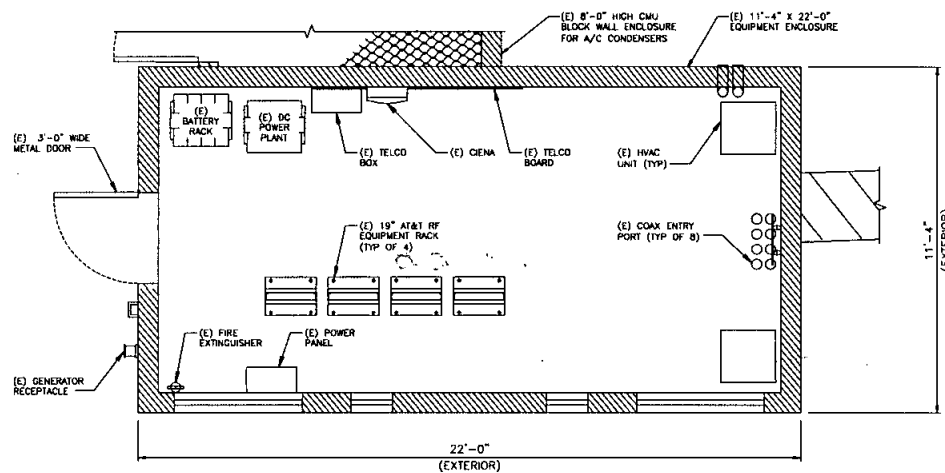
REV	DATE	DESCRIPTION
C	07/28/16	MARKET COMMENTS
B	06/09/16	MARKET COMMENTS
A	06/09/16	BOX CD

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8175 REGENTS ROAD B
SAN DIEGO, CA 92122
LTE BWE / SC

SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C-2



EQUIPMENT LAYOUT



5735 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

6800 W. 115TH STREET, SUITE 2282
OVERLAND PARK, KANSAS 66211
(913) 458-2000

PROJECT NO: 129071
DRAWN BY: GBC
CHECKED BY: JG

REV	DATE	DESCRIPTION
C	01/28/18	MARKET COMMENTS
B	06/09/18	MARKET COMMENTS
A	06/08/18	NOV 13

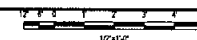
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DOYLE COMMUNITY PARK
8175 REGENTS ROAD B
SAN DIEGO, CA 92122
LTE BWE / 5C

SHEET TITLE
EQUIPMENT LAYOUT

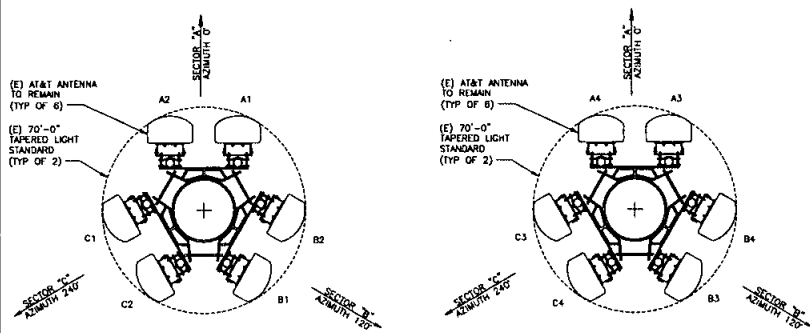
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C-3



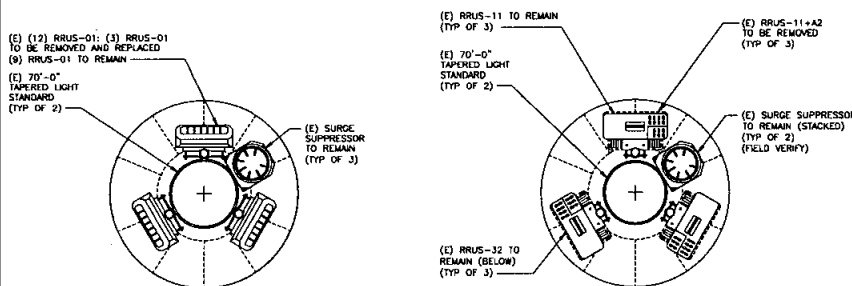
EXISTING ANTENNA SCHEDULE																						
TOWER	SECTOR	ANTENNA									TMA	SURGE SUPPRESSOR	RRU	TRANSMISSION LINE								
		POS.	TECH.	STATUS	MODEL NO.	SIZE	AZMUTH	RAD. CTR.	TIP HEIGHT	FIBER & POWER				COAX	LENGTH (ft)							
#1	A	1	WAVE 800/1000	EXISTING	800 10700 X	6'-0"	0	80'-0"	85'-0"	-	(1) SURGE-01	(1) RRUS-01	(1) 12 FIBER	3	1/2"	200'						
		2	LTE 100	EXISTING	800 10700 X	6'-0"	120	80'-0"	85'-0"													
		3	WAVE 800/1000	EXISTING	800 10700 X	6'-0"	240	80'-0"	85'-0"													
	B	1	LTE 100	EXISTING	800 10700 X	6'-0"	120	80'-0"	85'-0"								(1) SURGE-01	(1) RRUS-01	(1) 12 FIBER	3	1/2"	200'
		2	LTE 100	EXISTING	800 10700 X	6'-0"	240	80'-0"	85'-0"													
		3	LTE 100	EXISTING	800 10700 X	6'-0"	0	80'-0"	85'-0"													
#2	A	1	LTE 100	EXISTING	800 10700 X	6'-0"	0	80'-0"	85'-0"	-	(1) SURGE-01	(1) RRUS-01	(1) 12 FIBER	3	1/2"	200'						
		2	LTE 100	EXISTING	800 10700 X	6'-0"	120	80'-0"	85'-0"													
		3	LTE 100	EXISTING	800 10700 X	6'-0"	240	80'-0"	85'-0"													
	B	1	LTE 100	EXISTING	800 10700 X	6'-0"	120	80'-0"	85'-0"								(1) SURGE-01	(1) RRUS-01	(1) 12 FIBER	3	1/2"	200'
		2	LTE 100	EXISTING	800 10700 X	6'-0"	240	80'-0"	85'-0"													
		3	LTE 100	EXISTING	800 10700 X	6'-0"	0	80'-0"	85'-0"													
TOTALS		12 ANTENNAS									0 TMA'S	3 SURGE SUPPRESSORS	3 RRUS	4 COAX								

FINAL ANTENNA SCHEDULE																
TOWER	SECTOR	ANTENNA										TRANSMISSION LINE				
		POS.	TECH.	STATUS	MODEL NO.	SIZE	AZMUTH	RAD. CTR.	TIP HEIGHT	TMA	SURGE SUPPRESSOR	RRU	FIBER & POWER	COAX	LENGTH (ft)	
#1	A	1	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	0	80'-0"	85'-0"		(1) SURGE-01	(1) RRUS-01	(1) 12 FIBER	3	1/2"	200'
	B	2	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	120	80'-0"	85'-0"	(1) SURGE-02	(1) RRUS-02	(1) 12 FIBER	3	1/2"	200'	
	C	3	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	240	80'-0"	85'-0"	(1) SURGE-03	(1) RRUS-03	(1) 12 FIBER	3	1/2"	200'	
	D	4	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	360	80'-0"	85'-0"	(1) SURGE-04	(1) RRUS-04	(1) 12 FIBER	3	1/2"	200'	
	E	5	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	180	80'-0"	85'-0"	(1) SURGE-05	(1) RRUS-05	(1) 12 FIBER	3	1/2"	200'	
	F	6	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	0	80'-0"	85'-0"	(1) SURGE-06	(1) RRUS-06	(1) 12 FIBER	3	1/2"	200'	
#2	A	1	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	0	80'-0"	85'-0"		(1) SURGE-01	(1) RRUS-01	(1) 12 FIBER	3	1/2"	200'
	B	2	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	120	80'-0"	85'-0"	(1) SURGE-02	(1) RRUS-02	(1) 12 FIBER	3	1/2"	200'	
	C	3	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	240	80'-0"	85'-0"	(1) SURGE-03	(1) RRUS-03	(1) 12 FIBER	3	1/2"	200'	
	D	4	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	360	80'-0"	85'-0"	(1) SURGE-04	(1) RRUS-04	(1) 12 FIBER	3	1/2"	200'	
	E	5	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	180	80'-0"	85'-0"	(1) SURGE-05	(1) RRUS-05	(1) 12 FIBER	3	1/2"	200'	
	F	6	LWTS 800/1000	EXISTING	800 10700 X	6'-0"	0	80'-0"	85'-0"	(1) SURGE-06	(1) RRUS-06	(1) 12 FIBER	3	1/2"	200'	
TOTALS					12 ANTENNAS					6 SURGE SUPPRESSORS	6 RRUS	6 FIBER TRUNKS			6 COAX	



LIGHT POLE #1 ANTENNA LAYOUT
63'-0" AT TOP OF ANTENNAS

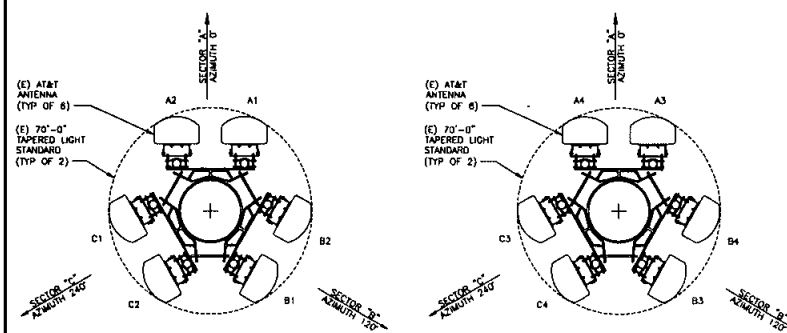
LIGHT POLE #2 ANTENNA LAYOUT
63'-0" AT TOP OF ANTENNAS



LIGHT POLE #1 ANTENNA LAYOUT
54'-0" AT TOP OF SHROUD

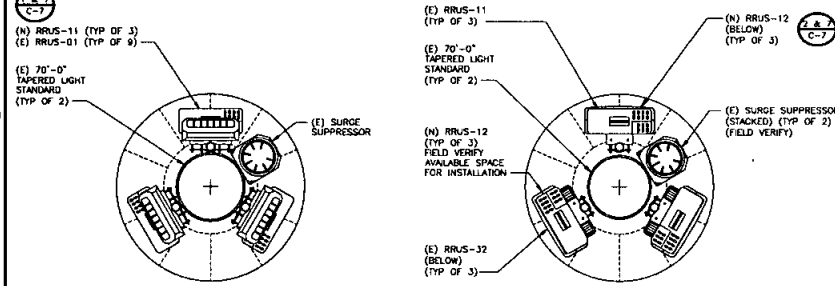
LIGHT POLE #2 ANTENNA LAYOUT
49'-0" AT TOP OF RRUS

(E) ANTENNA LAYOUT



LIGHT POLE #1 ANTENNA LAYOUT
63'-0" AT TOP OF ANTENNAS

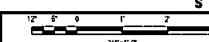
LIGHT POLE #2 ANTENNA LAYOUT
63'-0" AT TOP OF ANTENNAS



LIGHT POLE #1 ANTENNA LAYOUT
54'-0" AT TOP OF SHROUD

LIGHT POLE #2 ANTENNA LAYOUT
49'-0" AT TOP OF RRUS

(N) ANTENNA LAYOUT



PROJECT NO: 129071
DRAWN BY: GBC
CHECKED BY: JG

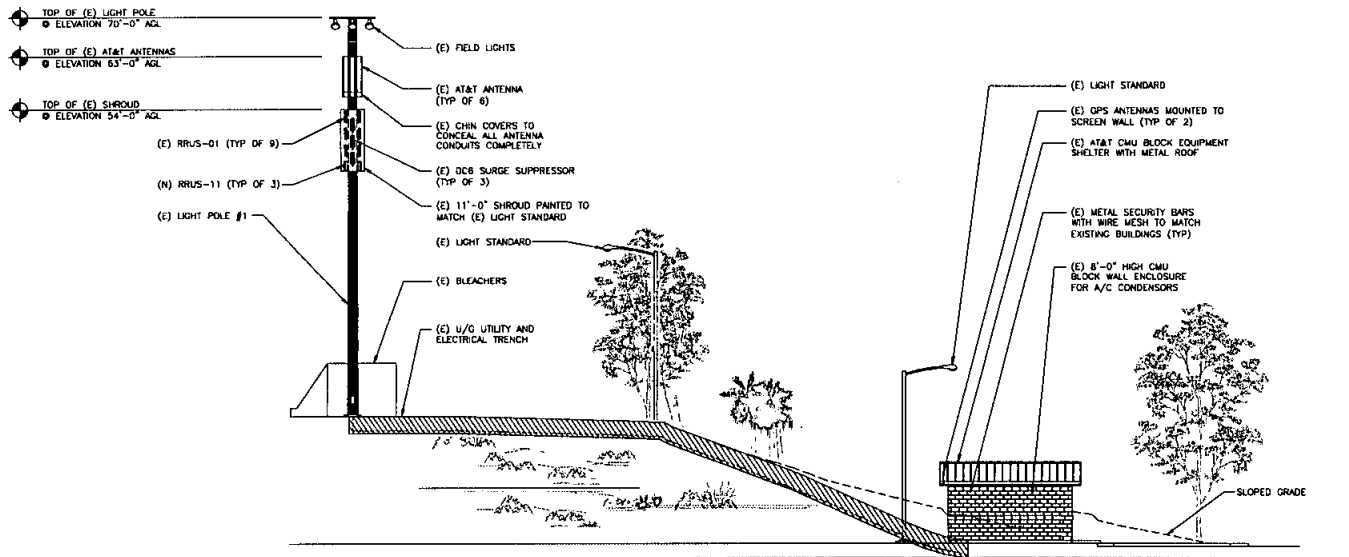
REV	DATE	DESCRIPTION
C	07/26/16	MARKET COMMENTS
B	06/09/16	MARKET COMMENTS
A	06/09/16	ISSN CD

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SS0076
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8175 REGENTS ROAD B
SAN DIEGO, CA 92122
LTE BWE / 5C

SHEET TITLE
ANTENNA LAYOUT
(EXISTING & NEW)

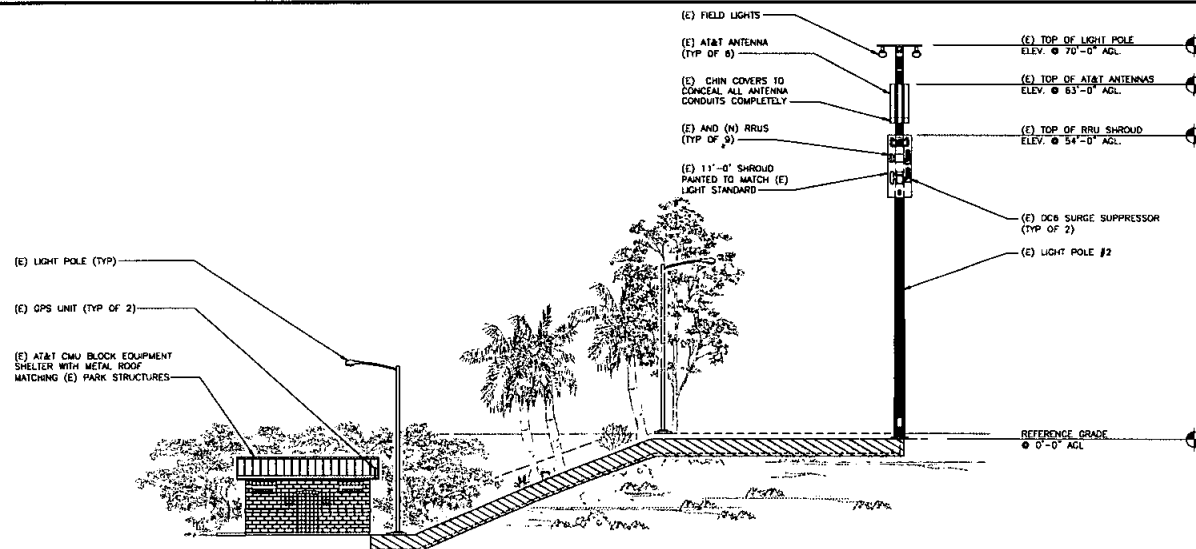
SHEET NUMBER
C-4



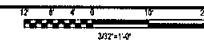
NORTHEAST ELEVATION



A



SOUTHWEST ELEVATION



B



PROJECT NO: 129071
DRAWN BY: CBG
CHECKED BY: JG

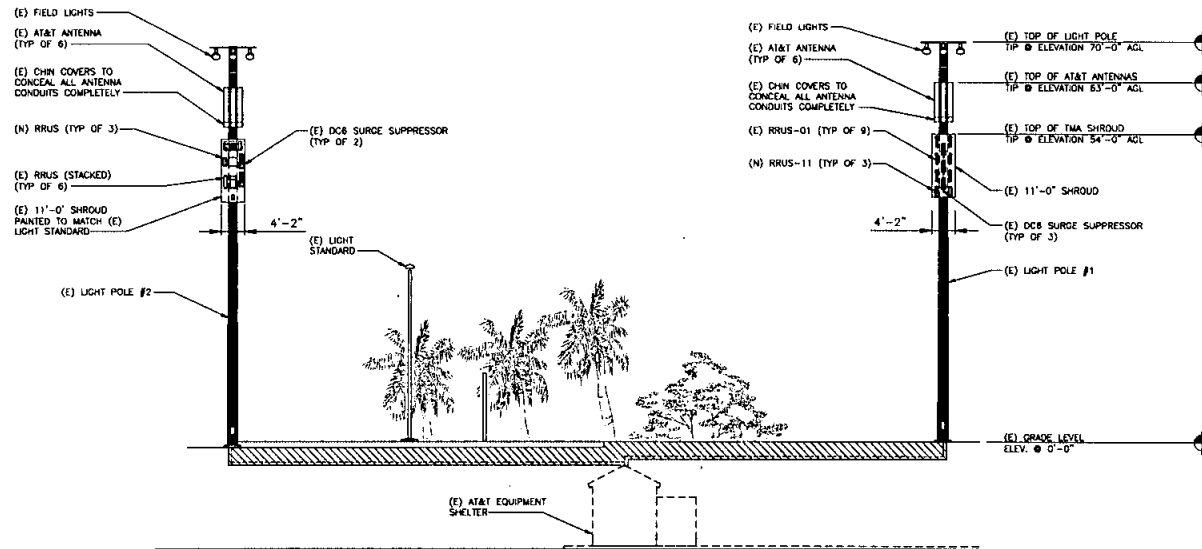
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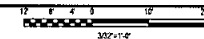
SS0076
DOYLE COMMUNITY PARK
8175 REGENTS ROAD B
SAN DIEGO, CA 92122
LTE BWE / SC

SHEET TITLE
ELEVATIONS

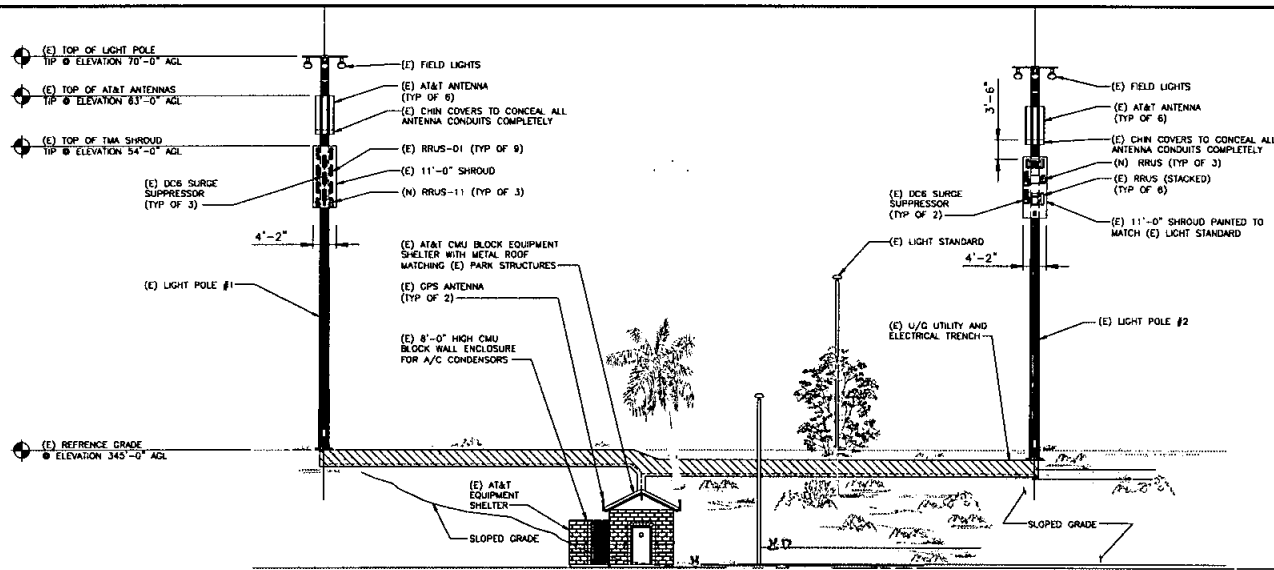
SHEET NUMBER
C-5



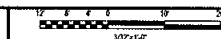
SOUTHEAST ELEVATION



C



NORTHWEST ELEVATION



D



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

6800 W. 115TH STREET, SUITE 2292
OVERLAND PARK, KANSAS 66211
(913) 458-2000

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DRAWN BY: GBD
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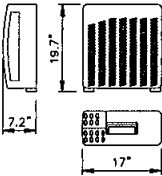
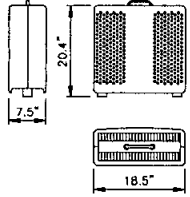
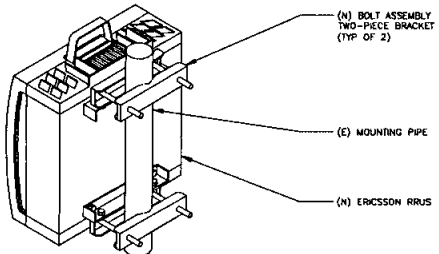
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SAN DIEGO, CA 92122
LTE BWE / 5C

SHEET TITLE
ELEVATIONS

SHEET NUMBER

C-6

ERICSSON RRUS-11 DIMENSIONS, WxDxH: (mm) 431x182x500mm POWER CONSUMPTION: 430 WATTS TOTAL WEIGHT: 50 lbs TEMPERATURE: -40° TO 55° C		ERICSSON RRUS-12 DIMENSIONS, WxDxH: (mm) 518x470x190 POWER CONSUMPTION: 540 WATTS TOTAL WEIGHT: 50 lbs TEMPERATURE: -40° TO 55° C									
											
(N) PANEL ANTENNA DETAIL OR EQUAL		(N) PANEL ANTENNA DETAIL OR EQUAL		NOT USED		NOT USED		NOT USED		NOT USED	
SCALE NTS 1		SCALE NTS 2		SCALE NTS 3		SCALE NTS 4		SCALE NTS 5		SCALE NTS 6	
											
RRUS MOUNTING DETAIL		SCALE NTS 7		NOT USED		SCALE NTS 8		NOT USED		SCALE NTS 9	
NOT USED		SCALE NTS 12		NOT USED		SCALE NTS 13		NOT USED		SCALE NTS 14	
NOT USED		SCALE NTS 15		NOT USED		SCALE NTS 16		NOT USED		SCALE NTS 17	



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



6800 W. 115TH STREET, SUITE 2202
OVERLAND PARK, KANSAS 66211
(913) 450-2000

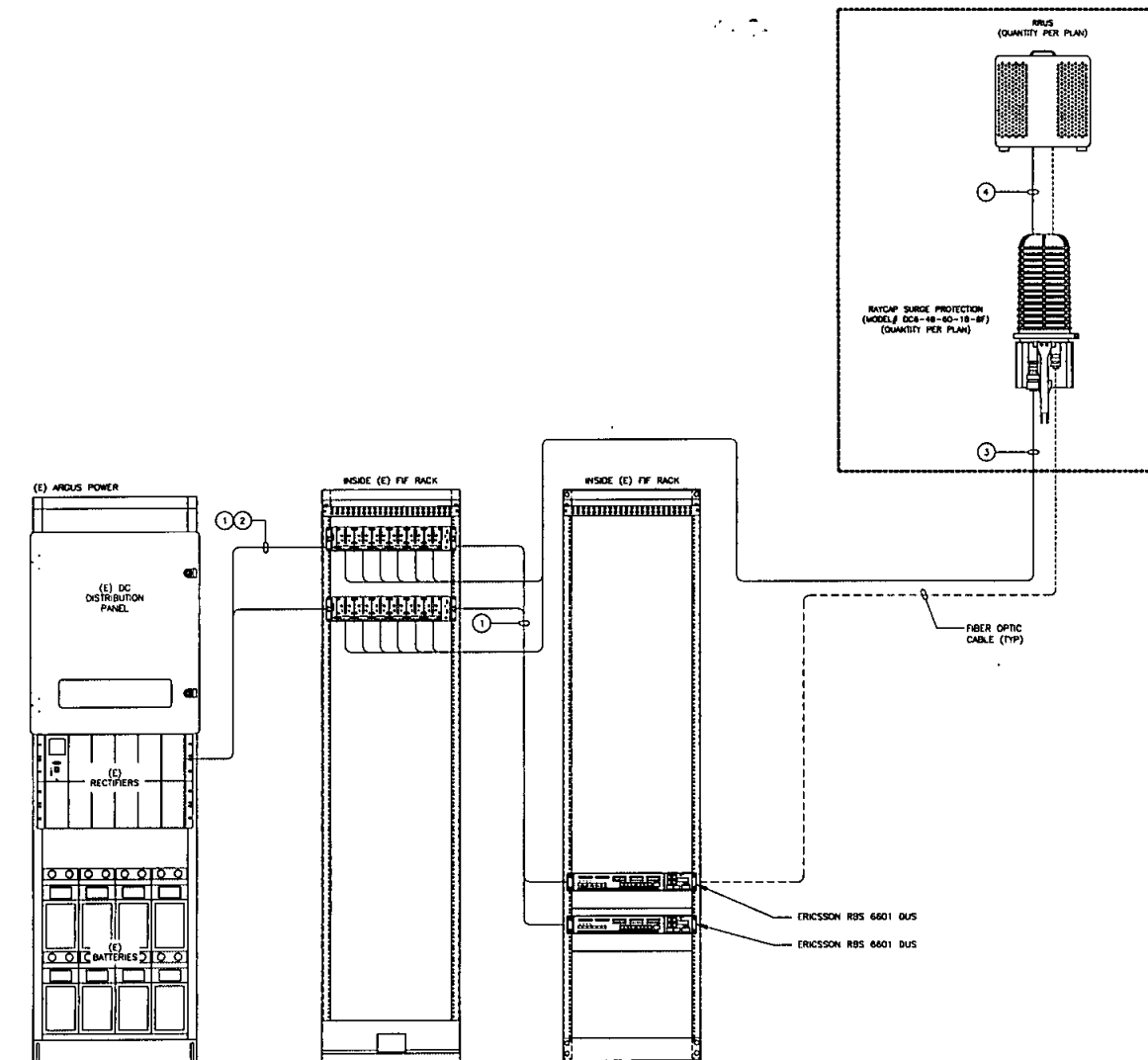
PROJECT NO:	129071	
DRAWN BY:	CBG	
CHECKED BY:	JG	
REV	DATE	DESCRIPTION
C	07/28/18	MARKET COMMENTS
B	08/09/18	MARKET COMMENTS
A	08/08/18	ROW CD

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.

SS0076
DOYLE COMMUNITY PARK
8175 REGENTS ROAD B
SAN DIEGO, CA 92122
LTE BWE / 5C

SHEET TITLE
DETAILS

SHEET NUMBER
C-7



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

FIBER OPTIC CABLE
DC POWER CABLE

LEGEND

- THESE ELECTRICAL PLANS ARE SUPPLEMENTARY TO CIVIL ENGINEERING ACTIVITIES, AS DEFINED BY CAL. BUS. & PROF. CODE §8731. THEREFORE, IN ACCORDANCE WITH CAL. BUS. & PROF. CODE §8737.2, 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.
- 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.
- NON-LTE DC POWER WIRING SIZE 14 AWG TO 10 AWG SHALL BE TELCOFLEX III. DC POWER WIRING 8 AWG AND LARGER SHALL BE TELCOFLEX IV.
- LTE POWER WIRING SHALL BE IN ACCORDANCE WITH ATT-002-290-531.
- DC ELECTRICAL LOAD DEMAND FOR PROPOSED REPLACEMENT WERE INCLUDED IN THE PRIOR AC LOAD CALCULATION.

NOTES

DC CIRCUIT SCHEDULE

	FROM	TO	CONFIGURATION
①	-48VDC DISTRIBUTION PANEL	LTE BASE BAND UNIT	EXISTING
②	-48VDC DISTRIBUTION PANEL	RAYCAP SURGE PROTECTION DC12-48-60-RM	EXISTING
③	RAYCAP SURGE PROTECTION DC12-48-60-RM	RAYCAP SURGE PROTECTION DC8-48-80-18-8F	EXISTING
④	RAYCAP SURGE PROTECTION DC8-48-80-18-8F	RBS (REMOTE RADIO UNIT)	EXISTING

SCHEDULE



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

6800 W. 115TH STREET, SUITE 2292
OVERLAND PARK, KANSAS 66211
(913) 458-2000

PROJECT NO: 129071
DRAWN BY: GBC
CHECKED BY: JC

REV	DATE	DESCRIPTION
C	01/26/16	MARKET COMMENTS
B	06/09/16	MARKET COMMENTS
A	06/09/16	REV. CD

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SS0076
DOYLE COMMUNITY PARK
8175 REGENTS ROAD B
SAN DIEGO, CA 92122
LTE BWE / SC

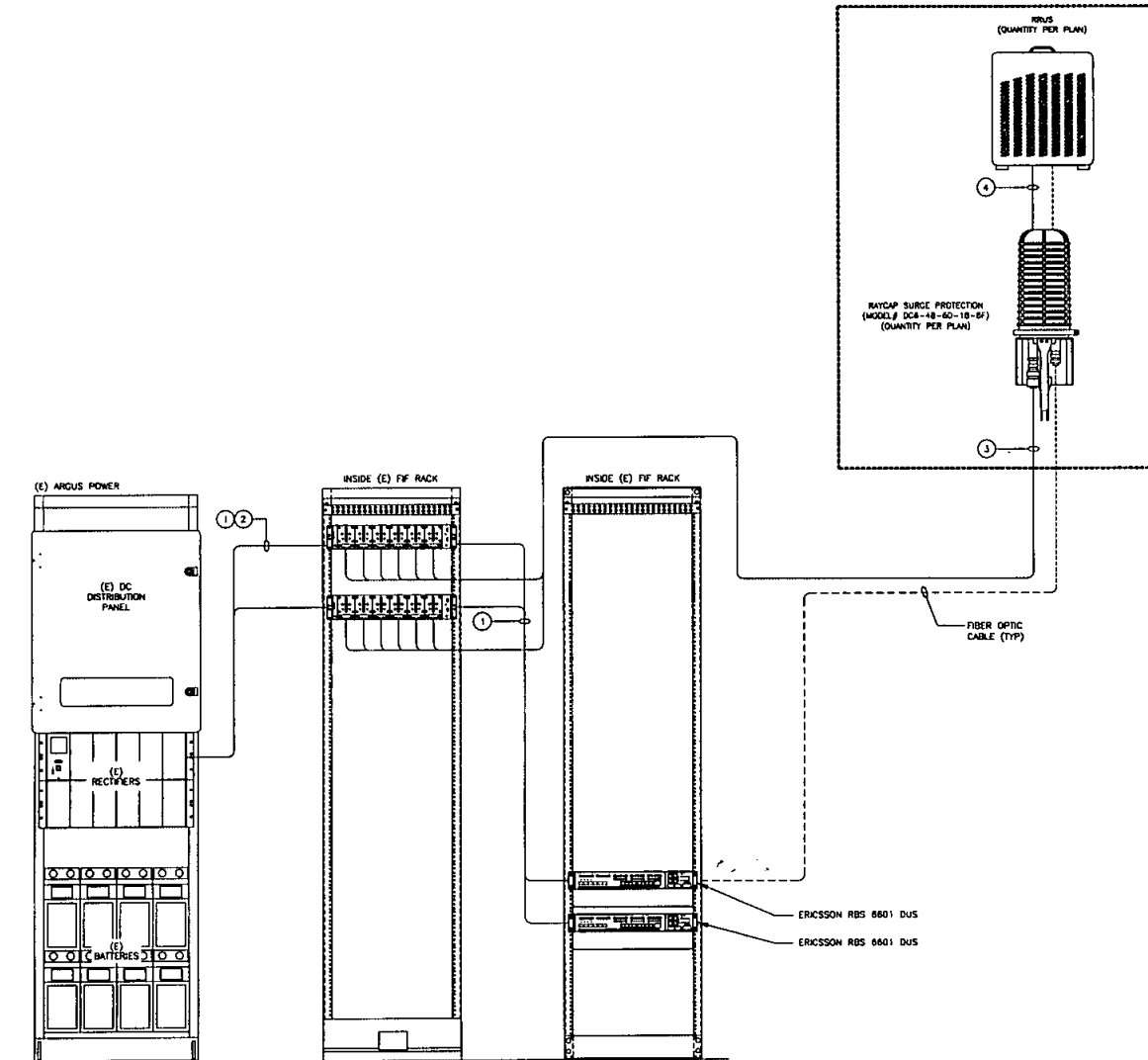
SHEET TITLE
GROUNDING
ONE-LINE DIAGRAM

SHEET NUMBER

E-1

SCALE
N.T.S.

NOT USED



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

FIBER OPTIC CABLE _____
DC POWER CABLE _____

LEGEND

- 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.
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- LTE POWER WIRING SHALL BE IN ACCORDANCE WITH ATT-002-290-531.
- DC ELECTRICAL LOAD DEMAND FOR PROPOSED REPLACEMENT WERE INCLUDED IN THE PRIOR AC LOAD CALCULATION.

NOTES

DC CIRCUIT SCHEDULE

	FROM	TO	CONFIGURATION
①	-48VDC DISTRIBUTION PANEL	LTE BASE BAND UNIT	EXISTING
②	-48VDC DISTRIBUTION PANEL	RAYCAP SURGE PROTECTION DC12-48-60-RM	EXISTING
③	RAYCAP SURGE PROTECTION DC12-48-60-RM	RAYCAP SURGE PROTECTION DC8-48-60-18-6F	EXISTING
④	RAYCAP SURGE PROTECTION DC8-48-60-18-6F	RRUS (REMOTE RADIO UNIT)	EXISTING

SCHEDULE



5735 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

6800 W. 115TH STREET, SUITE 2202
OVERLAND PARK, KANSAS 66211
(913) 458-2000

PROJECT NO: 129071
DRAWN BY: GBC
CHECKED BY: JC

REV	DATE	DESCRIPTION
C	07/26/18	MARKET COMMENTS
B	06/06/18	MARKET COMMENTS
A	06/06/18	SOB CD

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550076
DOYLE COMMUNITY PARK
8175 REGENTS ROAD B
SAN DIEGO, CA 92122
LTE BWE / 5C

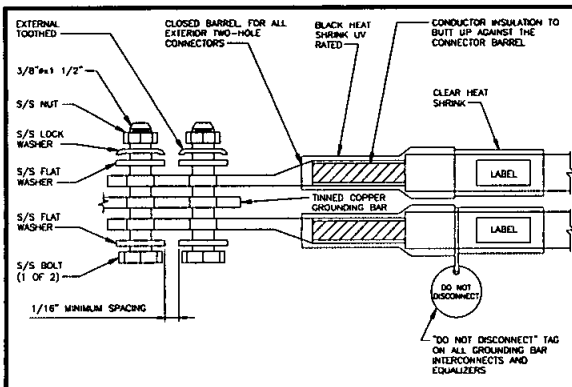
SHEET TITLE
GROUNDING
ONE-LINE DIAGRAM

SHEET NUMBER

E-1.1

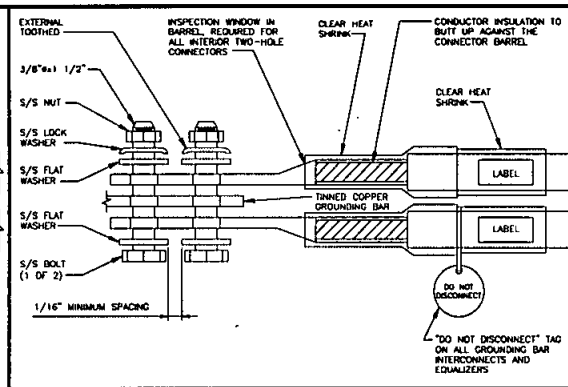
SCALE
N/A

NOT USED



EXTERIOR TWO HOLE LUG DETAIL

SCALE
NTS A



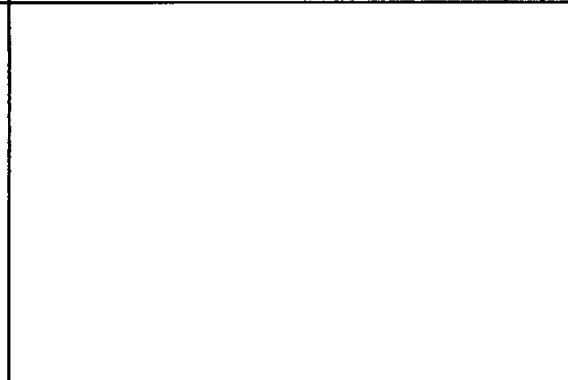
INTERIOR TWO HOLE LUG DETAIL

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 SHINERS).

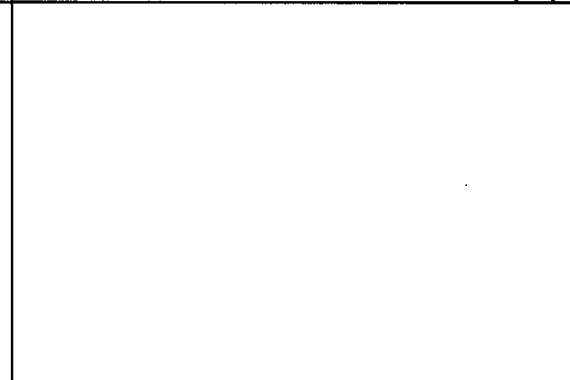
NOTES

SCALE
NTS C



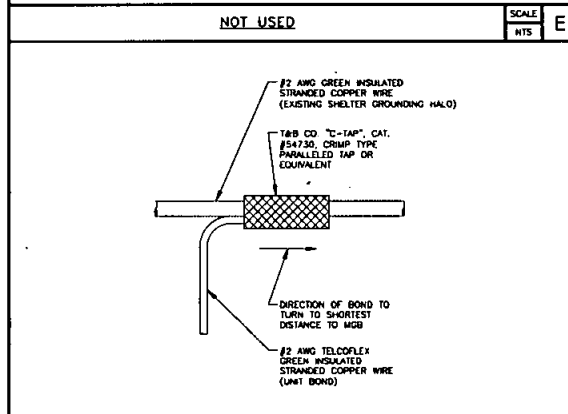
NOT USED

SCALE
NTS E



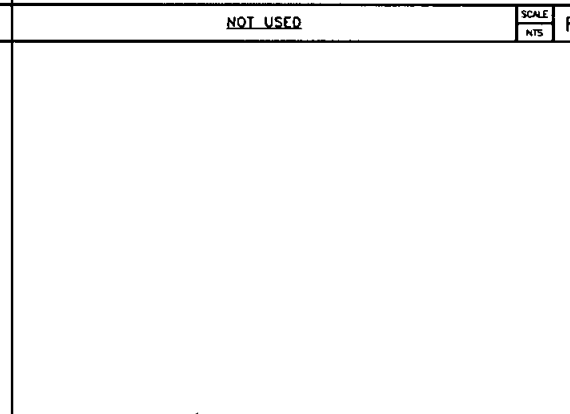
NOT USED

SCALE
NTS F



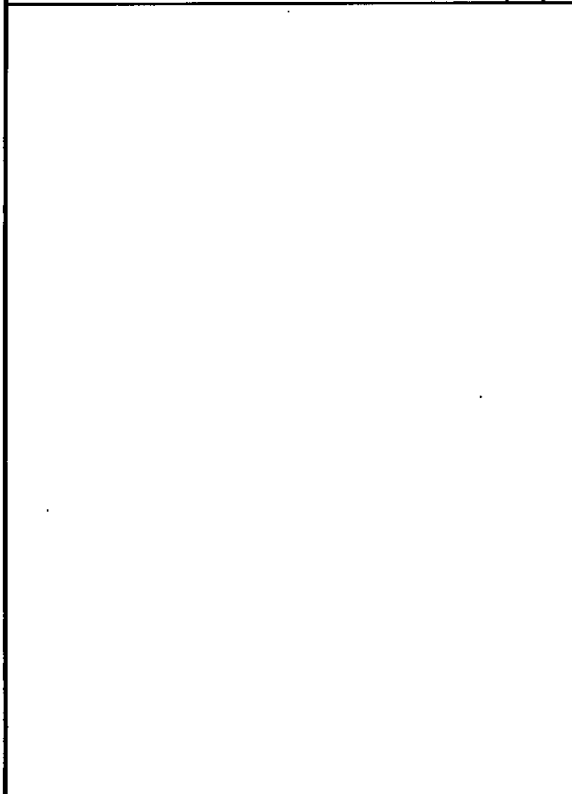
GROUNDING WIRE CONNECTION

SCALE
NTS H



NOT USED

SCALE
NTS J



NOT USED

SCALE
NTS G



PROJECT NO: 129071
DRAWN BY: CBG
CHECKED BY: JG

REV	DATE	DESCRIPTION
C	07/28/16	MARKET COMMENTS
B	06/09/16	MARKET COMMENTS
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SS0076
DOYLE COMMUNITY PARK
8175 REGENTS ROAD B
SAN DIEGO, CA 92122
LTE BWE / 5C

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 THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONVEYING 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, RULES, ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
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 DISA 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 WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAD PLUMED 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 DEBRIS FREE.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT REQUIRE MODIFICATION TO DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
16. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
17. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
19. 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.
20. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A-101-B-10 AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
21. 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 PIERIS 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.
22. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLOUGED 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.
23. 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.
24. SUBCONTRACTOR SHALL MAINTAIN DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
25. 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.
26. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
27. 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.
28. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT RECORDS TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
29. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
30. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
31. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
32. NO OUTDOOR STORAGE OF SOLID WASTE CONTAINERS ARE PROPOSED.
33. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GOW/OPS WIRELESS SITE" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
34. 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.
35. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
36. INFORMATION SHOWN ON THESE DRAWINGS HAS BEEN 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.
37. NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FM 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

FLOUORESCENT LIGHTING FIXTURE
(2) TWO LAMPS 48-18
SMOKE DETECTION (DC)
EMERGENCY LIGHTING (DC)

SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW
LED-1-2544400/51K-SFA-120-PE-0081XD
CHAINLINK FENCE
WOOD/WROUGHT IRON FENCE

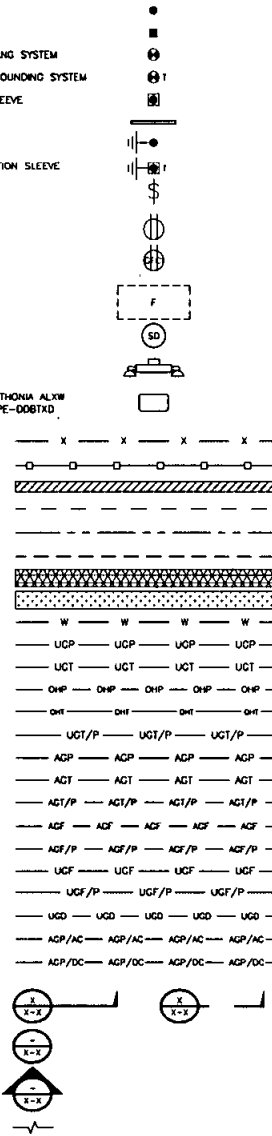
WALL STRUCTURE
LEASE AREA
PROPERTY LINE (PL)
SETBACKS
ICE BRIDGE
CABLE TRAY
WATER LINE

UNDERGROUND POWER
UNDERGROUND TELCO
OVERHEAD POWER
OVERHEAD TELCO

UNDERGROUND TELCO/POWER
ABOVE GROUND POWER
ABOVE GROUND TELCO
ABOVE GROUND TELCO/POWER

ABOVE GROUND FIBER
UNDERGROUND FIBER/POWER
UNDERGROUND FIBER
UNDERGROUND DUCT

ABOVE GROUND POWER/AC
ABOVE GROUND POWER/DC
SECTION REFERENCE
DETAIL REFERENCE
ELEVATION REFERENCE
BREAKLINE



LEGEND

AB	ANCHOR BOLT	INT	INTERIOR
ABV	ABOVE	LB(S)	POUND(S)
AC	ALTERNATING CURRENT	LF	LINEAR FEET
ADDL	ADDITIONAL	LTE	LONG TERM EVOLUTION
AFF	ABOVE FINISHED FLOOR	MAS	MASONRY
AFG	ABOVE FINISHED GRADE	MAX	MAXIMUM
AC	AMPERAGE INTERRUPTION CAPACITY	MB	MACHINE BOLT
ALUM	ALUMINUM	MECH	MECHANICAL
ALT	ALTERNATE	MFR	MANUFACTURER
ANT	ANTENNA	MGB	MASTER GROUND BAR
APPROX	APPROXIMATE	MIN	MINIMUM
ARCH	ARCHITECTURAL	MISC	MISCELLANEOUS
ATG	AUTOMATIC TRANSFER SWITCH	MTL	METAL
AWG	AMERICAN WIRE GAUGE	MTS	MANUAL TRANSFER SWITCH
BATT	BATTERY	NW	MICROWAVE
BDDG	BUILDING	(N)	NEW
BLK	BLOCK	NEC	NATIONAL ELECTRIC CODE
BLKG	BLOCKING	NO (J)	NUMBER
BM	BEAM	NIS	NOT TO SCALE
BTC	BARE TINNED COPPER CONDUCTOR	OC	ON CENTER
BOF	BOTTOM OF FOOTING	OPNG	OPENING
CAB	CABINET	(P)	PROPOSED
CANT	CANTILEVERED	P/C	PRECAST CONCRETE
CEC	CALIFORNIA ELECTRIC CODE	PCS	PERSONAL COMMUNICATION SERVICES
CHG	CHARGING	PCU	PRIMARY CONTROL UNIT
CLG	COLOR	PRC	PRIMARY RADIO CABINET
CLR	CLEAR	PP	POLARIZING PRESERVING
COL	COLUMN	PSF	POUNDS PER SQUARE FOOT
COMM	COMMON	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PT	PRESSURE TREATED
CONSTR	CONSTRUCTION	PWR	POWER CABINET
DBL	DOUBLE	QTY	QUANTITY
DC	DIRECT CURRENT	RAD	RADIUS
DEPT	DEPARTMENT	RECT	RECTIFIER
DF	DOUGLAS FIR	REF	REFERENCE
DA	DAMETER	REINFT	REINFORCEMENT
DAG	DIAGONAL	REQ'D	REQUIRED
DMG	DIMENSION	RET	REMOTE ELECTRIC TLT
DWG	DRAWING	RMC	RIGID METALLIC CONDUIT
(D)	DOWEL	RR1	REMOTE RADIO HEAD
EXIST	EXISTING	RRU	REMOTE RADIO UNIT
EA	EACH	RWY	RAILWAY
EC	ELECTRICAL CONDUCTOR	SCH	SCHEDULE
ELC	ELEVATION	SHT	SHEET
ELEC	ELECTRICAL	SIAD	SMART INTEGRATED DEVICE
ELT	ELECTRICAL METALLIC TUBING	SM	SMALLER
ENG	ENGINEER	SPEC	SPECIFICATION
EQ	EQUAL	SQ	SQUARE
EXP	EXPANSION	SS	STAINLESS STEEL
EXT	EXTERIOR	STD	STANDARD
FAB	FABRICATION	STL	STEEL
FF	FINISH FLOOR	STRUCT	STRUCTURAL
FC	FINISH GRADE	TEMP	TEMPORARY
FIF	FACILITY INTERFACE FRAME	THK	THICKNESS
FIN	FINISHED	TMA	TOWER MOUNTED AMPLIFIER
FLR	FLOOR	TN	TIE NAIL
FDN	FOUNDATION	TDA	TOP OF ANTENNA
FDC	FACE OF CONCRETE	TOP	TOP OF CURB
FMS	FACE OF MASONRY	TOP	TOP OF FOUNDATION
FOS	FACE OF STUO	TOP	TOP OF PLATE (PARAPET)
FS	FACE OF WALL	TOS	TOP OF STEEL
FSW	FINISH SURFACE	TOW	TOP OF WALL
FT	FOOT	TVSS	TRANSIENT VOLTAGE SUPPRESSION SYSTEM
FTD	FOOTING	TYP	TYPICAL
GA	GAUGE	UG	UNDERGROUND
GEN	GENERATOR	UL	UNDERWRITERS LABORATORY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UNO	UNLESS NOTED OTHERWISE
GLB	GLUE LAMINATED BEAM	UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS
GLV	GALVANIZED	SYSTEM	SYSTEM
GPS	GLOBAL POSITIONING SYSTEM	UPS	UNINTERRUPTIBLE POWER SYSTEM
GND	GROUND	(DC POWER PLANT)	(DC POWER PLANT)
GSW	GLOBAL SYSTEM FOR MOBILE	VF	VERIFIED IN FIELD
HDR	HEADER	W	WIDE
HCR	HANGER	W/	WITH
HVAC	HEAT/VENTILATION/AIR CONDITIONING	WD	WOOD
HT	HEIGHT	W.P.	WORK POINT
ICR	INTERIOR GROUND RING	WP	WEATHERPROOF
IN	INCH	WT	WEIGHT

ABBREVIATIONS



PROJECT NO: 129071
DRAWN BY: GBC
CHECKED BY: JG

REV	DATE	DESCRIPTION
1	07/22/18	MARKET COMMENTS
2	08/09/18	MARKET COMMENTS
3	08/09/18	REV CD

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

SS0076
DOYLE COMMUNITY PARK
8175 REGENTS ROAD B
SAN DIEGO, CA 92122
LTE BWE / SC

SHEET TITLE
GENERAL NOTES
LEGEND & ABBREVIATIONS

SHEET NUMBER
GN-1

