



Real Estate Assets

City Consent Application

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

7-2-19

Date

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

RE: Site Name: AT&T Sports Arena Project # SD0010
Site Address: 3500 Sports Arena Bl. 92110, San Diego (the "Property")
Agreement: Agreement dated 5/12/16 (the "agreement") between The City of San Diego ("City") and New Cingular Wireless PCS, LLC ("Lessee" or "Permittee").

Black & Veatch/AT&T Mobility is seeking Consent from the City to perform the following to the above referenced site:

- ☒ Modify, upgrade or changes to existing equipment or Site as describe in the attached plans / photos.
- ☐ Installation of a New Wireless Communication Facility on City owned property.
- ☐ Apply for new Permit/New Agreement on existing facility – **NO** modifications or changes to Existing equipment or site.

Describe proposed project below:

Install one (1) dish antennas, measuring 40.2"x23.75", within an "FRP" enclosure. Design is to surface-mount the antenna and FRP within an ex. architectural "bay" such that the installation is consistent with existing wireless installations on on the building.

Pursuant to Improvements and Alterations section of the above referenced agreement, "Lessee / Permittee shall not construct any improvements, structures or installations of the Premises or make any alterations to the Premises (with the exception of equipment replacement or repairs) without City's prior written approval."

In order to comply with such requirements, Black & Veatch/AT&T Mobility would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, Jim Kennedy, agent for AT&T Mobility

Applicant Signature: Jim Kennedy

Digitally signed by Jim Kennedy
DN: cn=US, email=J.Kennedy@att.com, o=Black & Veatch,
ou=Black & Veatch, cn=Jim Kennedy
Date: 2019.07.02 14:12:49-0700

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

AEG MANAGEMENT SD LLC has provided its consent and approval to allow applicant to submit application for Required Permits needed for the proposed items listed herein,

7/22/19 Janet Kelley
Date Print Name & Title Signature

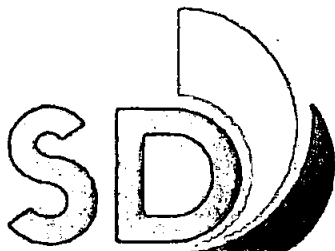
City of San Diego, acknowledgement and consent for 3500 SPORTS ARENA BLVD.
Site Location

7/22/19 CIBELE L. THOMPSON, DIRECTOR
Date Print Name & Title Signature

For READ ONLY

☐
☐
☐

Approved and Stamped plans received and attached
Scan as Amendment to Agreement when executed
Processing fee received



Real Estate Assets



SD0010 SPORTS ARENA CELL SITE RF MODIFICATIONS/ECHO REPEATER 3500 SPORTS ARENA BLVD SAN DIEGO, CA 92110

ENGINEERING

2016 CALIFORNIA BUILDING CODE
2016 CALIFORNIA RESIDENTIAL CODE
2016 CALIFORNIA TITLE 24
2016 CALIFORNIA FIRE CODE
2016 CALIFORNIA ENERGY CODE
2016 CALIFORNIA PLUMBING CODE
2016 CALIFORNIA MECHANICAL CODE
2016 CALIFORNIA ELECTRICAL CODE
16-222-C STANDING
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 SERVICE IS PROPOSED.

PROJECT DESCRIPTION

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

- INSTALL (1) (N) DONOR ANTENNA SUPPORT
- INSTALL (1) (N) DONOR ANTENNA
- INSTALL (1) (N) ECHO REPEATER
- INSTALL (1) (N) DUPLEXER
- INSTALL (1) (N) 1/2" JUMPER COAX

• NO NEW BATTERIES ARE TO BE INSTALLED AS PART OF THIS PROJECT

PROJECT INFORMATION

PROPERTY OWNER: CITY OF SAN DIEGO
ADDRESS: 200 C STREET
SAN DIEGO, CA 92118

SITE NAME: SPORTS ARENA
ADDRESS: 3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110

SITE CONTACT: TOM JOHNSTON
NUMBER: (619) 224-4525 EXT. 376

FA#: 10085128

PAGE ID: WPSD010927

DONOR SITE ID: SDX0024

COUNTY: SAN DIEGO

LATITUDE (NAD 83): 32.75563

LONGITUDE (NAD 83): -117.2125

GROUND ELEVATION: 22'-0" AMSL

ANTENNA TIP HEIGHT: 74'-0" AGL

ZONING JURISDICTION: CITY OF SAN DIEGO

ZONING DISTRICT: CC-3-4, RM-2-5

PARCEL #: 760-245-07

OCCUPANCY GROUP: S-2

CONSTRUCTION TYPE: V-B

OTHER WIRELESS FACILITIES: 4 OTHER KNOWN NOT OPERATING AT THIS SITE

POWER COMPANY: SDG&E

TELEPHONE COMPANY: AT&T

RF ENGINEER: RAY JINGAL
NUMBER: (925) 922-4394

LEASING AGENT: JUSTIN MILLER
NUMBER: 323-839-3411

ZONING AGENT: JIM KENNEDY
NUMBER: 619-993-1057

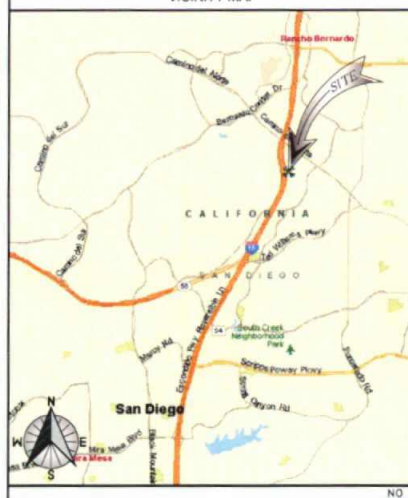
CONSTRUCTION MANAGER: VIC LERA
NUMBER: (919) 328-8379

CONTACT INFORMATION

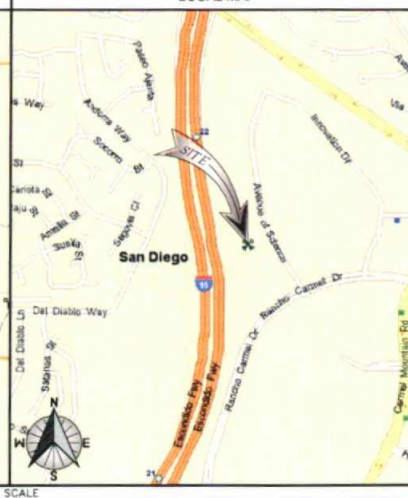
ENGINEER: RAY JINGAL
(925) 922-4394
BLACK & VEATCH CORPORATION
7310 MINAMAR ROAD, SUITE 210
SAN DIEGO, CA 92126

LOCATION MAPS

VICINITY MAP



LOCAL MAP



NO SCALE

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T OFFICE:

HEAD SOUTHWEST ON PACIFIC CENTER BLVD TOWARD MCKELLAR CT. GO 0.2 MI. TURN RIGHT AT LUSK BLVD. GO 1.2 MI. TURN RIGHT AT VISTA SORRENTO PKWY. GO 0.3 MI. TURN LEFT AT SORRENTO VALLEY BLVD. GO 0.2 MI. TURN RIGHT AT ROSELLE ST. GO 450 FT. TURN LEFT TO MERGE ONTO I-5 SOUTH. GO 10.1 MI. TAKE EXIT 29 TOWARD S. HOESCHENS ST. GO 0.8 MI. MERGE ONTO CAMINO DEL RIO W. GO 0.1 MI. TURN RIGHT AT HANCOCK ST. GO 0.8 MI. TURN LEFT AT KURTZ ST. GO 0.1 MI. ARRIVE AT SITE.

LEGAL DESCRIPTION

SEE Z-1 FOR LEGAL DESCRIPTION

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.

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND 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 CONSTRUCTION MANAGER: _____ DATE: _____
SITE ACQUISITION MANAGER: _____ DATE: _____
A/E MANAGER: _____ DATE: _____
AT&T PROJECT MANAGER: _____ DATE: _____
PROPERTY OWNER: _____ DATE: _____

RF INFORMATION

	LTE	CSM	UMTS
Tx	704.0 - 716.0 MHz 1900	809 - 874.6 MHz 890 - 891.4 MHz 1900 - 1952.8 MHz 1970 - 1980 MHz	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 1980 - 1900 MHz	829.6 - 834.4 MHz 1865 - 1869.8 MHz
MAX EIRP:	500.0 WATTS	850 MHz: 54 WATTS 1900 MHz: 54.5 WATTS	

DRAWING INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
Z-1	SITE PLAN
Z-2	ENLARGED SITE PLAN
Z-3	ANTENNA LAYOUT
Z-4	ELEVATION
Z-5	ELEVATION
Z-6	DETAILS

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: 129079
DRAWN BY: GBC
CHECKED BY: JRG

REV	DATE	DESCRIPTION
1	07/02/18	REV. JRG

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.

SD0010
SPORTS ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
CELL SITE RF MODIFICATIONS/
ECHO REPEATER

SHEET TITLE
TITLE SHEET

SHEET NUMBER

T-1

NOTE:

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

LEGAL DESCRIPTION

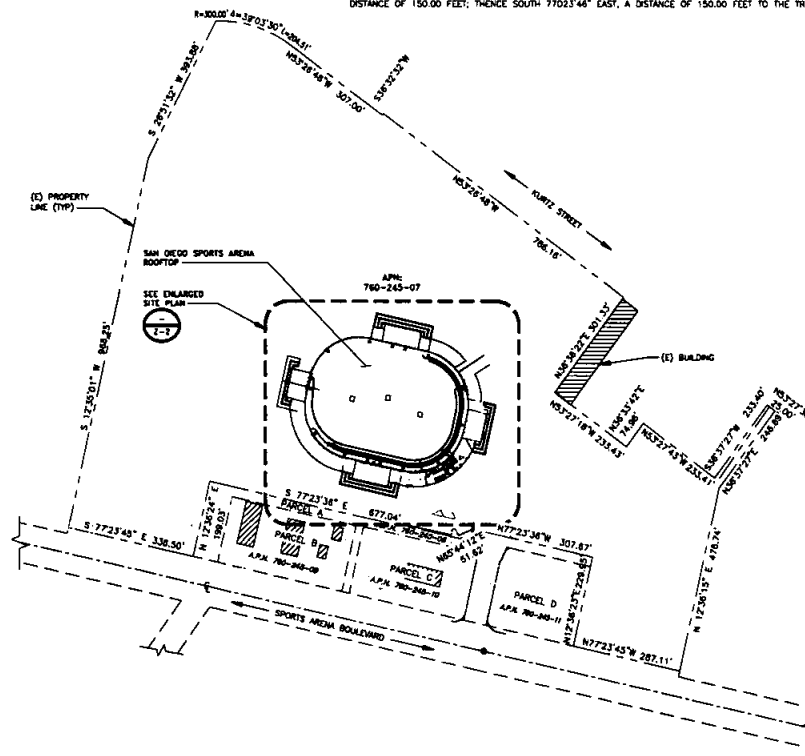
THE PROJECT SITE IS LEGALLY DESCRIBED AS PARCEL 1: PORTIONS OF PUEBLO LOTS 241, 242, 250, 276, 311, 312, 313, AND 338 OF THE PUEBLO LANDS OF SAN DIEGO, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF MADE BY JAMES PASCOE, A COPY OF WHICH SAID MAP WAS FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, AND KNOWN AS MISCELLANEOUS MAP NO. 38, TOGETHER WITH LOT "A" AND A PORTION OF LOT "B" OF PUEBLO LOT 338, ACCORDING TO PARTITION MAP THEREOF ON FILE IN THE OFFICE OF THE COUNTY CLERK OF SAID COUNTY, IN AN ACTION ENTITLED "STEELE VS. STEELE," SUPERIOR COURT CASE NO. 5826, TOGETHER WITH A PORTION OF CASS AND MCLELLAN SUBDIVISION, ACCORDING TO MAP THEREOF NO. 1561, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY DESCRIBED AS FOLLOWS:

COMMENCING AT THE POINT OF INTERSECTION OF THE SOUTHEASTERN LINE OF PUEBLO LOT 312 WITH THE NORTHERLY LINE OF FRONTIER STREET, (NOW SPORTS ARENA BOULEVARD) AS DESCRIBED IN DEED TO FRONTIER ENTERPRISES, INC., RECORDED MARCH 5, 1941, IN BOOK 1143, PAGE 320 OF OFFICIAL RECORDS OF SAN DIEGO COUNTY, THENCE NORTHEASTERLY ALONG SAID SOUTHEASTERN LINE TO A POINT OF INTERSECTION WITH A LINE WHICH IS DISTANT 15.00 FEET NORTHERLY, MEASURED AT RIGHT ANGLES TO THE NORTHERLY LINE OF SAID SPORTS ARENA BOULEVARD; THENCE SOUTH 77°23'46" EAST, A DISTANCE OF 371.52 FEET TO THE TRUE POINT OF BEGINNING, THENCE NORTH 12°36'14" EAST, A DISTANCE OF 478.74 FEET, THENCE NORTH 36°33'28" EAST, A DISTANCE OF 246.89 FEET TO THE NORTHEASTERN LINE OF SAID PUEBLO LOT 338, THENCE NORTH 53°02'34" WEST, A DISTANCE OF 25.00 FEET TO THE MOST NORTHERLY CORNER OF SAID PUEBLO LOT 338, THENCE SOUTH 36°33'28" WEST ALONG THE NORTHEASTERN LINE OF PUEBLO LOT 338, A DISTANCE OF 233.40 FEET TO THE MOST EASTERLY CORNER OF SAID LOT "A", THENCE NORTH 53°02'34" WEST ALONG THE NORTHEASTERN LINE OF SAID LOT "A", A DISTANCE OF 233.41 FEET TO THE MOST NORTHERLY CORNER OF SAID LOT "A", THENCE SOUTH 36°33'41" WEST ALONG THE NORTHEASTERN LINE OF SAID LOT "A", A DISTANCE OF 74.98 FEET TO A POINT DISTANT NORTH 37°03'31" EAST, 158.40 FEET FROM THE MOST WESTERLY CORNER OF SAID LOT "A", THENCE NORTH 53°02'19" WEST, 233.43 FEET TO A POINT IN THE NORTHEASTERN LINE OF PUEBLO LOT 338 DISTANT SOUTH 36°33'21" WEST, 308.33 FEET FROM THE MOST NORTHERLY CORNER OF SAID PUEBLO LOT 338; THENCE NORTH 36°33'21" EAST ALONG THE NORTHEASTERN LINE OF PUEBLO LOT 338, A DISTANCE OF 301.33 FEET TO A LINE WHICH IS PARALLEL WITH AND 7.00 FEET SOUTHERLY TO AND MEASURED AT RIGHT ANGLES TO THE NORTHERLY PROLONGATION OF THE NORTHEASTERN LINE OF SAID PUEBLO LOT 338, THENCE ALONG SAID PARALLEL LINE NORTH 53°02'48" WEST, A DISTANCE OF 786.18 FEET TO A POINT IN THE SOUTHEASTERN LINE OF KURTZ STREET AS DEDICATED BY RESOLUTION NO. 187583 OF THE COUNCIL OF CITY OF SAN DIEGO, A COPY OF WHICH WAS RECORDED JULY 30, 1988 AS FILE/PAGE NO. 137838 OF OFFICIAL RECORDS; THENCE ALONG BOUNDARY OF SAID KURTZ STREET AS FOLLOWS:

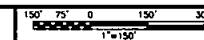
SOUTH 36°33'31" WEST, A DISTANCE OF 5.00 FEET, NORTH 53°02'48" WEST, A DISTANCE OF 307.00 FEET TO THE BEGINNING OF A 300.00 FOOT RADIUS CURVE, CONCAVE SOUTHWESTERLY, AND WESTERLY ALONG THE ARC OF SAID CURVE TO AND ALONG THE SOUTHERLY LINE OF HANCOCK STREET DEDICATED BY SAID RESOLUTION, THROUGH A CENTRAL ANGLE OF 39°03'30" AN ARC LENGTH OF 204.31 FEET; THENCE SOUTH 23°05'31" WEST, A DISTANCE OF 383.86 FEET; THENCE SOUTH 12°35'00" WEST, A DISTANCE OF 568.25 FEET SAID LINE WHICH IS PARALLEL WITH AND 15.00 FEET NORTHERLY OF THE NORTHERLY LINE OF FRONTIER STREET; THENCE ALONG SAID PARALLEL LINE SOUTH 77°23'46" EAST, A DISTANCE OF 402.50 FEET; THENCE NORTH 12°36'14" EAST, A DISTANCE OF 150.00 FEET; THENCE SOUTH 77°23'46" EAST, A DISTANCE OF 150.00 FEET; THENCE SOUTH 12°36'14" WEST, A DISTANCE OF 150.00 FEET; THENCE SOUTH 77°23'46" EAST, A DISTANCE OF 150.00 FEET TO THE TRUE POINT OF BEGINNING.

PARCEL 2: THOSE PORTIONS OF PUEBLO LOTS 241, 242, AND 311 OF THE PUEBLO LANDS OF SAN DIEGO, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF MADE BY JAMES PASCOE, A COPY OF WHICH SAID MAP WAS FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, AND KNOWN AS MISCELLANEOUS MAP NO. 38, DESCRIBED AS FOLLOWS:

COMMENCING AT THE POINT OF INTERSECTION OF THE SOUTHEASTERN LINE OF PUEBLO LOT 312 WITH THE NORTHERLY LINE OF SPORTS ARENA BOULEVARD; THENCE NORTHEASTERLY ALONG SAID SOUTHEASTERN LINE TO A POINT OF INTERSECTION WITH A LINE WHICH IS DISTANT 15.00 FEET NORTHERLY, MEASURED AT RIGHT ANGLES FROM THE NORTHERLY LINE OF SAID SPORTS ARENA BOULEVARD; THENCE NORTH 77°23'46" WEST, A DISTANCE OF 725.59 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 12°36'14" EAST, A DISTANCE OF 150.00 FEET; THENCE NORTH 77°23'46" WEST, A DISTANCE OF 150.00 FEET; THENCE SOUTH 12°36'14" WEST, A DISTANCE OF 150.00 FEET; THENCE SOUTH 77°23'46" EAST, A DISTANCE OF 150.00 FEET TO THE TRUE POINT OF BEGINNING.



SITE PLAN



5735 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

5800 W. 115TH STREET, SUITE 2792
OVERLAND PARK, KANSAS 66211
(913) 456-2000

PROJECT NO: 129079
DRAWN BY: CGB
CHECKED BY: JRG

A	DATE	DESCRIPTION
1	07/02/19	REV 20
2		
3		
4		
5		
6		
7		
8		
9		
10		

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.

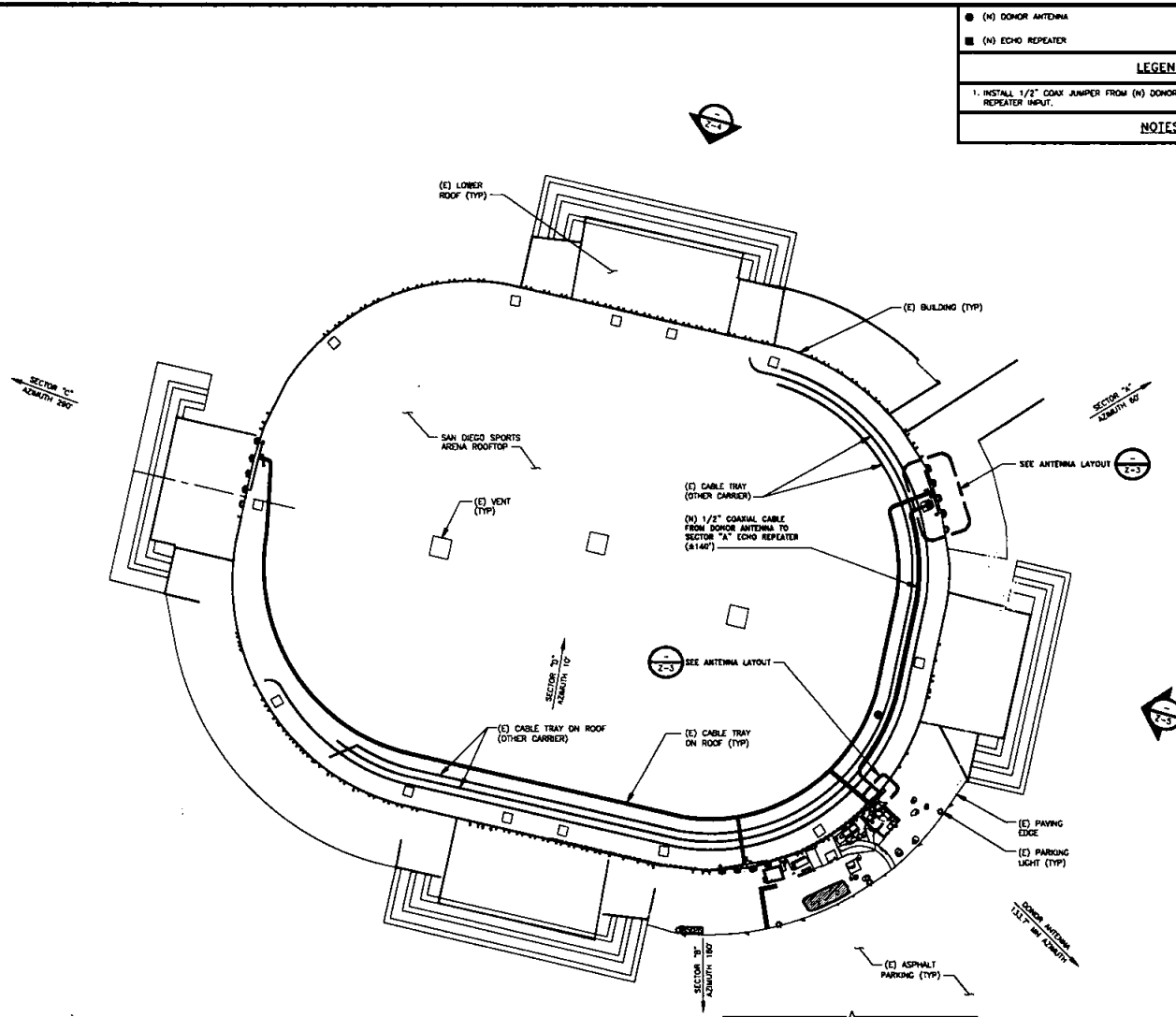
SD0010
SPORTS ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
CELL SITE RF MODIFICATIONS/
ECHO REPEATER

SHEET TITLE

SITE PLAN

SHEET NUMBER

Z-1



(N) DONOR ANTENNA
 (N) ECHO REPEATER

LEGEND

1. INSTALL 1/2" COAX JUMPER FROM (N) DONOR ANTENNA TO (N) SECTOR "A" ECHO REPEATER INPUT.

NOTES

5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121

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

PROJECT NO: 129079

DRAWN BY: GBG

CHECKED BY: JRG

REV	DATE	DESCRIPTION
A	01/02/19	WORK

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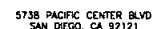
SD0010
SPORTS ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
CELL SITE RF MODIFICATIONS/
ECHO REPEATER

SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
Z-2

ENLARGED SITE PLAN

32' 24' 16" 8' 0" 32' 64'
1/32"=1'-0"



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

PROJECT NO: 129079

DRAWN BY: GBG

CHECKED BY: JRG

A	07/02/19	BOR ZD
REV	DATE	DESCRIPTION

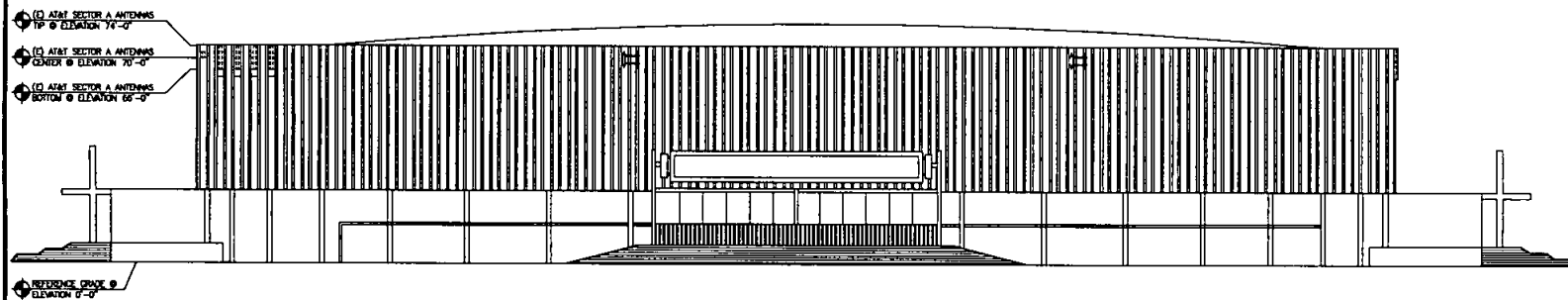
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CELL SITE RF MODIFICATIONS/
ECHO REPEATER

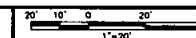
SHEET TITLE
ELEVATIONS

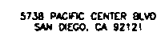
SHEET NUMBER

Z-4



NORTH ELEVATION





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

PROJECT NO: 129079

DRAWN BY: GBC

CHECKED BY: JRG

A	07/02/19	90% ZD
REV	DATE	DESCRIPTION

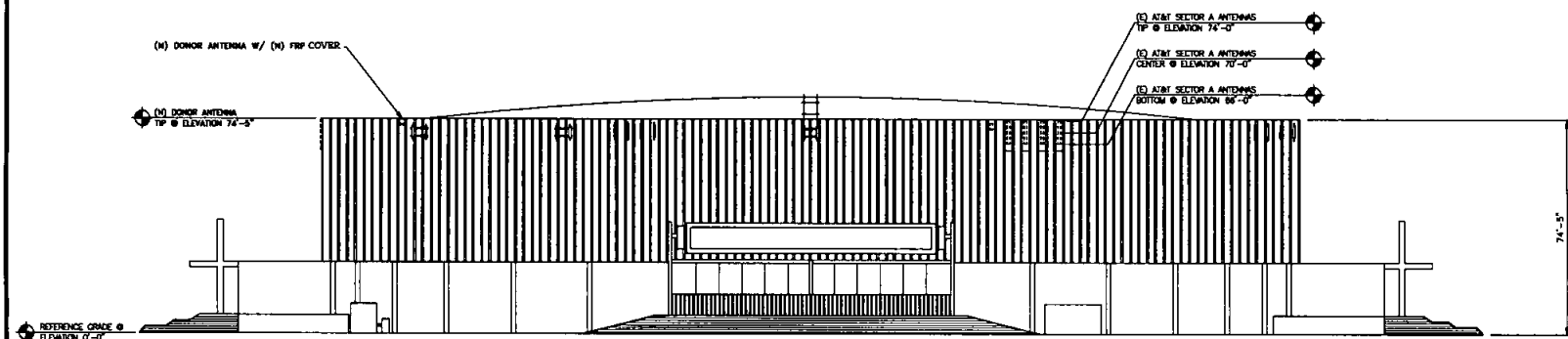
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CELL SITE RF MODIFICATIONS/
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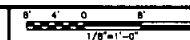
SHEET TITLE
ELEVATIONS

SHEET NUMBER

Z-5

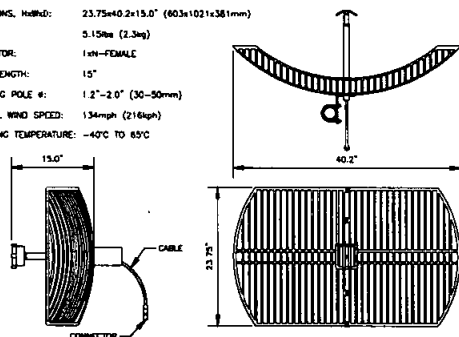


EAST ELEVATION



CCI ANT-2330-PB-24

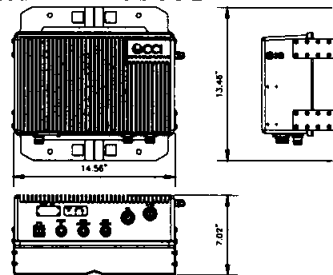
DIMENSIONS, HORIZ: 23.75x40.2x15.0" (603x1021x381mm)
WEIGHT: 5.15lbs (2.3kg)
CONNECTOR: 1xM-FEMALE
CABLE LENGTH: 15"
MOUNTING POLE #: 1.2"-2.0" (30-50mm)
SURVIVAL WIND SPEED: 134mph (216km/h)
OPERATING TEMPERATURE: -40°C to 65°C



(N) PARABOLIC ANTENNA DETAIL

SCALE
NTS 1**CCI SER-2300-2W-EG**

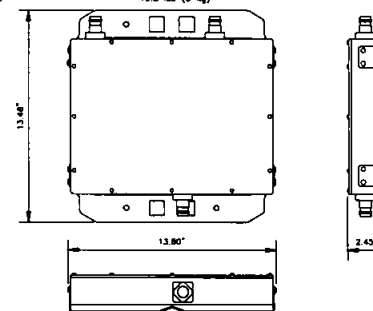
DIMENSIONS, HORIZ (W/BRACKETS): 13.48"x14.56"x7.02" (341.9x369.8x178.3mm)
WEIGHT: 20.75lbs (9.43kg)
RF CONNECTORS: 3x6.3-10 FEMALE



(N) ECHO REPEATER AMPLIFIER DETAIL

SCALE
NTS 2**CCI DPO-2323-SX DIPLEXER**

DIMENSIONS, HORIZ: 13.48"x13.60"x2.45" (342x345.2x62.1 mm)
WEIGHT: 19.8 lbs (9 kg)



(N) DIPLEXER DETAIL

SCALE
NTS 3**Installation Scope**

Install Echo repeater on Alpha sector. Refer to "Wiring Diagram" tab in this workbook for installation diagram. Donor site south east; line of sight between stations is clear. This site produced excellent results in the proposed donor location. Install donor antenna to building wall at (P1). Install 160' 1/2" jumper from donor antenna to Alpha sector Echo repeater input port.

Prerequisite Action

Prior to repeater installation, a dedicated source of DC power (-48 V @ 2A) will need to be provided to each sector being served.

Approximate power runs:

ALPHA: 200' +/-

Recommended Installation Method

- 1) Install donor antenna mast (3' x 1 3/4" ID EMT) on building wall at P1.
- 2) Use appropriate bracket/clamp combination to fasten mast to building wall.
- 3) Install 24 dBi donor antenna at top of installed mast section. Observe the 'up' arrow (↑) on antenna feed assembly for proper orientation.
- 4) Set the antenna azimuth to 133.7° MN (147.7° MN).
- 5) Install 140' 1/2" jumper from donor antenna to Alpha sector Echo repeater input port.
- 6) Install Echo repeater/diplexer/ERMS equipment in close proximity to WCS antenna on Alpha sector. *It must be placed close enough to permit the use of a 6' coaxial jumper between the WCS RRH and Echo repeater.*
- 7) Ground all installed components including Echo repeater, diplexer and donor antenna mast in accordance with AT&T construction practices.
- 8) Install DC power cables and components, but do not energize the circuit(s).
- 9) Install Alarm cables from Echo repeater to WCS RRH.

INSTALLATION SCOPE OF WORK

SCALE
NTS 4

NOT USED

SCALE
NTS 5

NOT USED

SCALE
NTS 6

5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121

**BLACK & VEATCH**

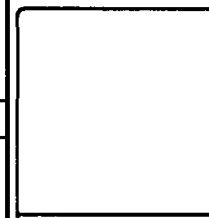
6800 W. 115TH STREET, SUITE 2292
OVERLAND PARK, KANSAS 66211
(913) 438-2000

PROJECT NO: 129079

DRAWN BY: GBO

CHECKED BY: JRC

REV	DATE	DESCRIPTION



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3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
CELL SITE RF MODIFICATIONS/
ECHO REPEATER

SHEET TITLE
DETAILS

SHEET NUMBER

Z-6