



Real Estate Assets

City Consent Application

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

9/24/2020

Date

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

RE: Site Name: University Avenue Project # 816130

Site Address: 6046 Hughes Avenue, San Diego (the "Property")

Agreement: Agreement dated 9/29/1995 (the "agreement") between The City of San Diego ("City") and GTE Mobilnet of San Diego, ("Lessee" or "Permittee").

Crown Castle is seeking Consent from the City to perform the following to the above
Applicants Name/Carrier
referenced site:

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

Describe proposed project below:

Install a weather sensor to the existing shelter

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

Sincerely, Veronica Gathagan, agent for Crown Castle.

Applicant Signature: Veronica Gathagan Digitally signed by Veronica Gathagan
Date: 2020.04.29 11:52:30 -07'00'

☐ 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.

City Public Utilities Department has provided its consent and approval to allow applicant to submit application for Required Permits needed for the proposed items listed herein, **with the understanding that the Department will be allowed to review the improvement plans prior to any permits being issued** and that a pre-construction meeting will be conducted with staff before any work begins, if required.

<u>10/12/20</u>	<u>Keli Balo</u>	<u>Keli Balo</u>	Digitally signed by Keli Balo Date: 2020.10.12 12:52:32 -07'00'
Date	Print Name & Title	Signature	

City of San Diego, acknowledgement and consent for 6046 Hughes Avenue.

<u>10/29/2020</u>	<u>Kristin Geitz, Interim Director, READ</u>	<u>Site Location</u>
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



AT&T SITE NUMBER:
AT&T SITE NAME:
AT&T FA CODE:
SITE TYPE:

SD0300
UNIVERSITY AVENUE
10085149
MONOPINE

BUSINESS UNIT #:
SITE ADDRESS:
COUNTY:
TOWER HEIGHT:

816130
NORTH OF DARNALL SCHOOL
SAN DIEGO, CA 92115
SAN DIEGO
59'-0"

PROJECT: AT&T WEATHER SENSOR

SITE INFORMATION	
CROWN CASTLE USA INC.	UNIVERSITY AVE.
SITE NAME:	
SITE ADDRESS:	NORTH OF DARNALL SCHOOL SAN DIEGO, CA 92115
COUNTY:	SAN DIEGO
MAP/PARCEL #:	472-470-00-00
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	32° 44' 55.18"
LONGITUDE:	-117° 04' 01.10"
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	470 FT.
CURRENT ZONING:	OR-1-I
JURISDICTION:	DIVISION OF STATE ARCHITECTS (DSA)
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	HB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	CITY TREASURER, CITY OF SAN DIEGO POST OFFICE BOX 129030 SAN DIEGO, CA 92112-9030
TOWER OWNER:	CROWN CASTLE GT COMPANY LLC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSET GROUP 7357 TRADE STREET SAN DIEGO, CA 92121
ELECTRIC PROVIDER:	SAN DIEGO GAS & ELECTRIC (609) 611-7343
TELCO PROVIDER:	AT&T (866) 626-6900

[illegible]

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO PROPOSE AN ANTENNA MODIFICATION ON AN EXISTING WIRELESS SITE.

FINAL TOWER CONFIGURATION:

- NO CHANGES

FINAL GROUND CONFIGURATION:

- INSTALL (1) SERVICE ALTITUDE STATION (SAS)

LOCATION MAP

32nd Avenue
177th Street
178th Street

Central Junior High School
Central Senior High School

Police Station

32-388661
-177-886673

APPLICABLE CODES	
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:	REFERENCE DOCUMENTS:
CODE TYPE	ORDER ID: 52874
BUILDING	REVISION: 0
MECHANICAL	
ELECTRICAL	
CODE	
BUILDING	2019 CALIFORNIA BUILDING CODE (CBC)/2018 IBC
MECHANICAL	2019 CALIFORNIA MECHANICAL CODE (CMC)/2018 UMC
ELECTRICAL	2019 CALIFORNIA ELECTRICAL CODE (CEC)/2017 NEC



AT&T SITE NUMBER: SD0300

BU #: 816130
UNIVERSITY AVE.

NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115

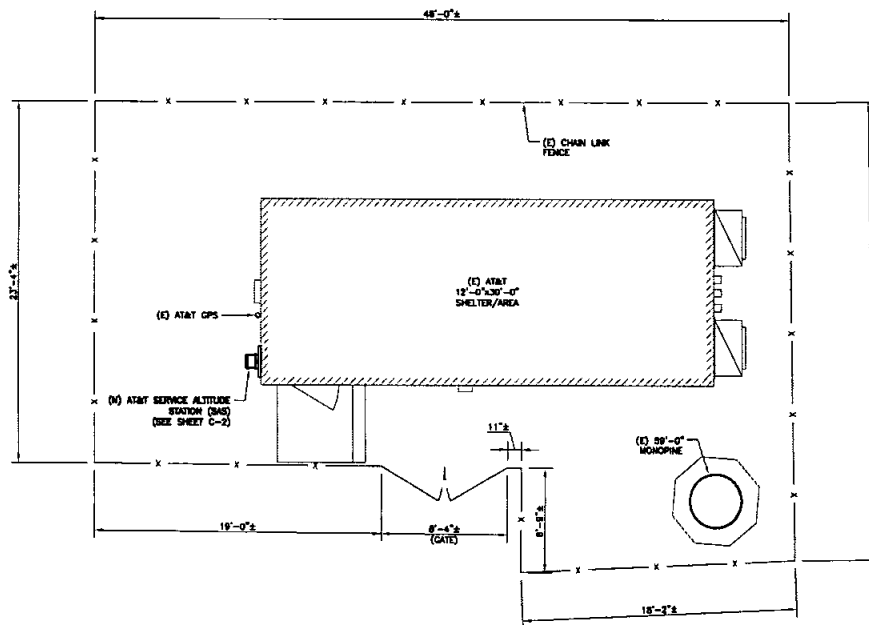
EXISTING 59'-0" MONOPINE

ISSUED FOR:				
REV	DATE	BY	DESCRIPTION	DES.
0	09/08/01	TG	CONSTRUCTION	LA/



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.

SHEET NUMBER: T-1	REVISION 0
-----------------------------	----------------------



1 SITE PLAN
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11.11%)



7337 TRADE STREET
SAN DIEGO, CA 92121



200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVING, CA 92618

AT&T SITE NUMBER: SD0300

BU #: 816130
UNIVERSITY AVE.

NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115

EXISTING 59'-0" MONOPINE

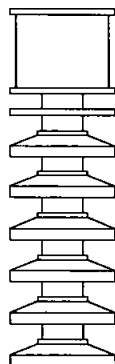
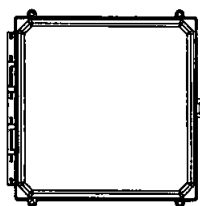
ISSUED FOR:

REV	DATE	BY	DESCRIPTION	DESIGN
0	10/18/21	YG	CONSTRUCTION	LAB/MD



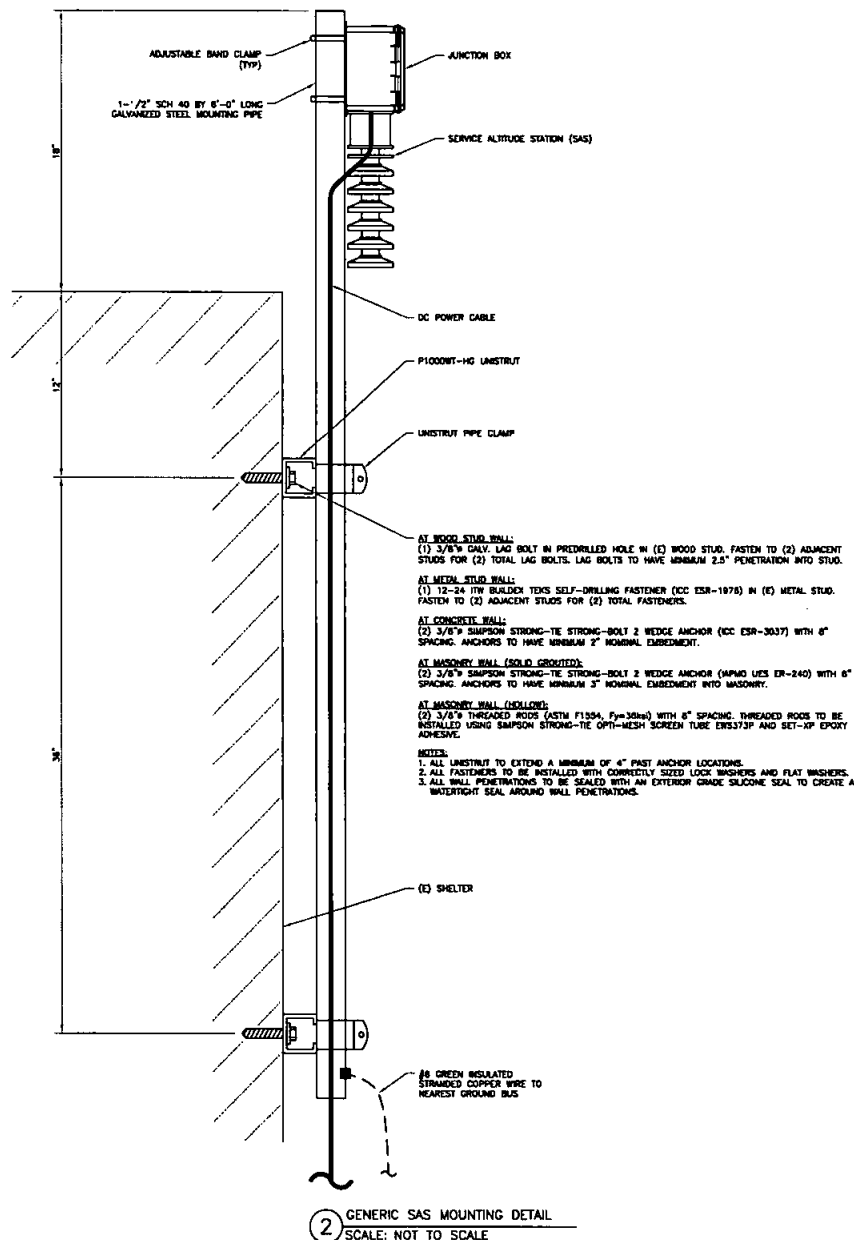
IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DRAWING.

SHEET NUMBER: C-1
REVISION: 0



SERVICE ALTITUDE STATION (SAS)
WEIGHT (SENSOR + JUNCTION BOX): 7 LBS
SENSOR SIZE (HxWxD): 10x3x3 IN.
JUNCTION BOX SIZE (HxWxD): 10x4x4 IN.
PART #: 100-0020-01
POWER REQUIREMENTS: -48VDC
DATA LINK: CAT1 LTC MODEM OR AT&T NETWORK
MODEM WITH DIVERSITY CAPABILITY

1 SERVICE ALTITUDE STATION (SAS)
SCALE: NOT TO SCALE



2 GENERIC SAS MOUNTING DETAIL
SCALE: NOT TO SCALE



7337 TRADE STREET
SAN DIEGO, CA 92121



200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVING, CA 92618

AT&T SITE NUMBER: SD0300

BU #: 816130
UNIVERSITY AVE.

NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115

EXISTING 59'-0" MONOPINE

ISSUED FOR:

REV	DATE	BY	DESCRIPTION	DESIGNED
0	09/08/20	YG	CONSTRUCTION	LR/MD



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

SHEET NUMBER: REVISION:

C-2

0

Certificate Of Completion

Envelope Id: 66674A1A5703481FB5213A071B837734

Status: Completed

Subject: Please DocuSign: SD0300_816130_UNIVERSITY AVE._AT&T Miscellaneous FCD_REV 0_9.8.2020 (FULLSIZE).pdf

Source Envelope:

Document Pages: 4

Signatures: 4

Envelope Originator:

Certificate Pages: 3

Initials: 0

Phillip Lander

AutoNav: Enabled

2000 Corporate Drive

Envelope Stamping: Enabled

Canonsburg, PA 15317

Time Zone: (UTC-05:00) Eastern Time (US & Canada)

Phil.Lander@crowncastle.com

IP Address: 162.254.108.200

Record Tracking

Status: Original

Holder: Phillip Lander

Location: DocuSign

9/8/2020 3:20:30 PM

Phil.Lander@crowncastle.com

Signer Events

Maribel Dentinger

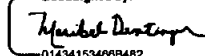
Maribel.Dentinger@crowncastle.com

Crown Castle International Corp.

Security Level: Email, Account Authentication (None)

Signature

DocuSigned by:


014341534608482...

Signature Adoption: Drawn on Device

Using IP Address: 162.254.108.200

Timestamp

Sent: 9/8/2020 3:21:17 PM

Viewed: 9/8/2020 3:49:18 PM

Signed: 9/8/2020 3:49:48 PM

Electronic Record and Signature Disclosure:

Accepted: 9/20/2018 8:56:27 AM

ID: 50d48a2f-ee52-4b02-9a1f-3c3a14f58c3b

In Person Signer Events

Signature

Timestamp

Editor Delivery Events

Status

Timestamp

Agent Delivery Events

Status

Timestamp

Intermediary Delivery Events

Status

Timestamp

Certified Delivery Events

Status

Timestamp

Carbon Copy Events

Status

Timestamp

Witness Events

Signature

Timestamp

Notary Events

Signature

Timestamp

Envelope Summary Events

Status

Timestamps

Envelope Sent

Hashed/Encrypted

9/8/2020 3:21:17 PM

Certified Delivered

Security Checked

9/8/2020 3:49:18 PM

Signing Complete

Security Checked

9/8/2020 3:49:48 PM

Completed

Security Checked

9/8/2020 3:49:48 PM

Payment Events

Status

Timestamps

Electronic Record and Signature Disclosure

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

In order to provide more efficient and faster service, Crown Castle ("we", "us" or "company") is pleased to announce the use of DocuSign, Inc. ("DocuSign") electronic signing system. The terms for providing such documents for execution and various other documents and records to you electronically through DocuSign are set forth below. Please read the information below carefully and if you can satisfactorily access this information electronically and agree to these terms, please confirm your agreement by clicking the "I agree" button at the bottom of this document.

Getting paper copies

At any time, you may request from us a paper copy of any document for execution or other document or record provided or made available electronically to you by us. You will be able to download and print documents we send to you through the DocuSign system during and immediately after each signing session and, if you elect to create a DocuSign signer account, you may access them for a limited period of time thereafter. To request paper copies of documents previously provided by us to you electronically, send an e-mail to esignature@CrownCastle.com, requesting the subject paper copies and stating your e-mail address, name, US Postal address and telephone number.

Withdrawing your consent to receive and/or execute documents electronically

If you elect to receive documents for execution and various other documents and records from us electronically, you may at any time change your mind and tell us that thereafter you want to receive such documents only in paper format. To withdraw your consent to electronic delivery and execution of documents, use the DocuSign 'Withdraw Consent' form on the signing page of a DocuSign envelope, instead of signing it. Thereafter, you will no longer be able to use the DocuSign system to electronically receive and execute documents or other records from us. You may also send an e-mail to esignature@CrownCastle.com stating that you are withdrawing your consent to electronic delivery and execution of documents through the DocuSign system and stating your e-mail address, name, US Postal Address, and telephone number.

Consequences of withdrawing consent to receive and/or execute documents electronically

If you elect to receive documents for execution and various other documents and other records only in paper format, it will slow the speed at which we can complete the subject transactions because of the increased delivery time.

Documents for execution, and other documents and records may be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we may provide documents for execution, and other documents and records electronically to you through the DocuSign system during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any document for execution or other document or record, we prefer to provide all documents for execution, and other documents and records by the same method and to the same address that you have given us. If you do not agree with this process, please let us know as described below.

How to contact Crown Castle

You may contact us to let us know of any changes related to contacting you electronically, to request paper copies of documents for execution and other documents and records from us, and to withdraw your prior consent to receive documents for execution and other documents and records electronically as follows:

To contact us by phone call: 724-416-2000

To contact us by email, send messages to: esignature@CrownCastle.com

To contact us by paper mail, send correspondence to

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317

To advise Crown Castle and DocuSign of your new e-mail address

To let us know of a change to the e-mail address where we should send documents for execution and other documents and records to you, you must send an email message to esignature@CrownCastle.com and state your previous e-mail address and your new e-mail address.

In addition, you must notify DocuSign, Inc. to arrange for your new email address to be reflected in your DocuSign account by following the process for changing e-mail in the DocuSign system.

Required hardware and software

Browsers:	Internet Explorer® 11 (Windows only); Windows Edge Current Version; Mozilla Firefox Current Version; Safari™ (Mac OS only) 6.2 or above; Google Chrome Current Version; Note : Pre-release (e.g., beta) versions of operating systems and browsers are not supported.
Mobile Signing:	Apple iOS 7.0 or above; Android 4.0 or above
PDF Reader:	Acrobat® Reader or similar software may be required to view and print PDF files
Screen Resolution:	1024 x 768

Enabled Security Settings:	Allow per session cookies
----------------------------------	---------------------------

These minimum requirements are subject to change. If these requirements change, you will be asked to re-accept the disclosure. Pre-release (e.g. beta) versions of operating systems and browsers are not supported.

Acknowledging your access and consent to receive documents electronically

Please confirm that you were able to access this disclosure electronically (which is similar to the manner in which we will deliver documents for execution and other documents and records) and that you were able to print this disclosure on paper or electronically save it for your future reference and access or that you were able to e-mail this disclosure to an address where you will be able to print it on paper or save it for your future reference and access. Further, if you consent to receiving documents for execution and other documents and records in electronic format on the terms described above, please let us know by clicking the "I agree" button below.

By checking the 'I agree' box, I confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- As a recipient, you can read, electronically sign and act upon this message, and you agree not to forward it or any other DocuSign e-mail communications. In the event another party needs to be added to the DocuSign communication, you must make a request to the e-mail originator.



Real Estate Assets

REQUEST FOR PRELIMINARY REVIEW

for installation/modification of Wireless Communication Facility on City-owned property

8/14/2020

Date

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

RE: Site Name: University Avenue Project # 816130
Site Address: 6046 Hughes Avenue, San Diego (the "Property")
Agreement: Agreement dated 9/29/1995 (the "agreement") between The City of
San Diego ("City") and GTE Mobilnet of San Diego, ("Lessee" or "Permittee" or
"Licensee").

Crown Castle is seeking Consent from the City to perform the following to the above
Applicants Name/Carrier
referenced site:

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

Describe proposed project below:

Replacement of two antennas
Install new battery unit inside existing cabinets
replace 2 RRUS
Project value = \$15,0000

Approved with the following conditions from PUD:

- Submit Pre-Construction RF Study
- In the Plans, show the cables coming out of the encloser. PUD need plans that have greater detail as it relates to utilities PUD or others might hit during future construction.

Pursuant to Improvements and Alterations, section of the above referenced agreement, *Lessee/ Permittee/Licensee 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, Veronica Gathagan would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, Veronica Gathagan, agent for Crown Castle.

Applicant Signature: Veronica Gathagan Digitally signed by Veronica Gathagan
Date: 2020.08.14 13:52:33 -07'00'

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

City Public Utilities Department has provided its consent and approval to allow applicant to submit application for Required Permits needed for the proposed items listed herein, **with the understanding that the Department will be allowed to review the improvement plans prior to any permits being issued** and that a pre-construction meeting will be conducted with staff before any work begins, if required.

10/12/20

Date

Keli Balo

Print Name & Title

Keli Balo

Signature

Digitally signed by Keli Balo
Date: 2020.10.12 13:05:51 -07'00'

City of San Diego, acknowledgment and consent for 6046 Hughes Avenue.

Site Location

10/29/2020

Date

Kristi Geitz, Interim Director

Print Name & Title

[Signature]

Signature

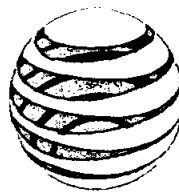
For READ ONLY

☐
☒
☐

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



Real Estate Assets



at&t

AT&T SITE NUMBER: SD300
AT&T SITE NAME: UNIVERSITY AVENUE
AT&T PROJECT: AT&T MOD 5G NR UPGRADE
 WR_RSDL-19-01269 / 3601A0NY5Z

BUSINESS UNIT #: 816130
SITE ADDRESS: NORTH OF DARNALL SCHOOL
 SAN DIEGO, CA 92115
COUNTY: SAN DIEGO
SITE TYPE: MONOPINE
TOWER HEIGHT: 59'-0"
FA LOCATION : 10085149



AT&T SITE NUMBER: SD300
BU #: 816130
UNIVERSITY AVE.
 NORTH OF DARNALL
 SCHOOL
 SAN DIEGO, CA 92115
 EXISTING 59'-0" MONOPINE

SITE INFORMATION

CROWN CASTLE USA INC. UNIVERSITY AVE.
SITE NAME:
SITE ADDRESS: NORTH OF DARNALL SCHOOL,
 SAN DIEGO, CA 92115
COUNTY: SAN DIEGO
MAP/PARCEL #: 472-470-08-00
AREA OF CONSTRUCTION: EXISTING
LATITUDE: 32° 44' 55.18"
LONGITUDE: -117° 04' 01.10"
147/108 TYPE: NAD83
GROUND ELEVATION: 470 FT.
CURRENT ZONING: NOT REQUIRED
JURISDICTION: DIVISION OF STATE ARCHITECTS (DSA)
OCCUPANCY CLASSIFICATION: U
TYPE OF CONSTRUCTION: IIB
A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER: CITY TREASURER, CITY OF SAN DIEGO
 POST OFFICE BOX 129030 OFFICE OF THE CITY TREASURER
 SAN DIEGO, CA 92112-9030
TOWER OWNER: CROWN CASTLE GT COMPANY LLC
 2000 CORPORATE DRIVE
 CANONSURG, PA 15317
CARRIER/APPLICANT: AT&T TOWER ASSET GROUP
 575 MOROSCO DRIVE
 ATLANTA, GA 30324-3300
ELECTRIC PROVIDER: SAN DIEGO GAS & ELECTRIC
 (800) 611-7343
TELCO PROVIDER: AT&T
 (866) 620-6900

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	OVERALL SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2.1	TOWER ELEVATIONS
C-2.2	TOWER ELEVATIONS
C-3	EXISTING AND NEW ANTENNA PLANS & EQUIP. SCHEDULE
C-4	EQUIPMENT SPECS
G-1	GROUNDING DETAILS

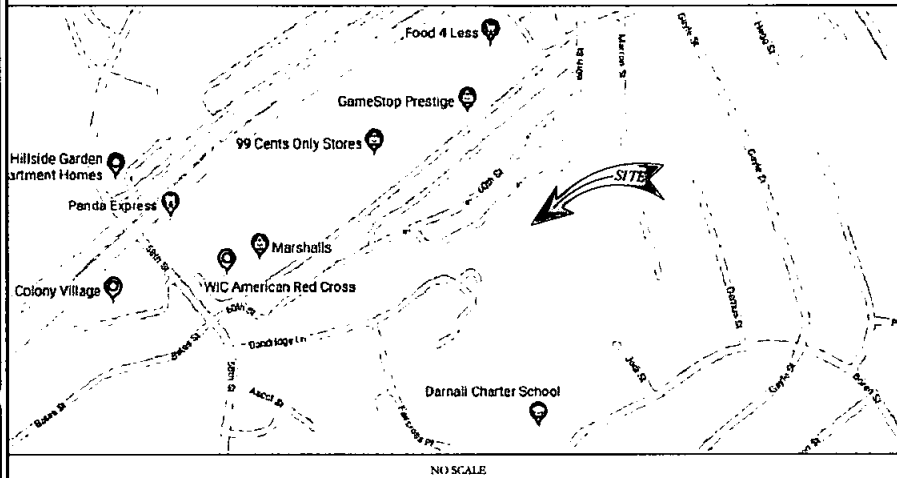
ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CALL CALIFORNIA ONE CALL
 811 (800) 422-4133
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!



LOCATION MAP



NO SCALE

PROJECT TEAM

A&E FIRM: M SQUARED WIRELESS
 1387 CALLE AVANZADO
 SAN CLEMENTE, CA 92673
CROWN CASTLE USA INC.
 DISTRICT CONTACTS:
 200 SPECTRUM CENTER DRIVE, SUITE 1700 & 1800
 IRVINE, CA 92618
ROBERT VERDUGO - PROJECT MANAGER
 (949) 344-7838
GARNER MORALES - CONSTRUCTION MANAGER
 (714) 293-7925
JOHN NGUYEN - A&E SPECIALIST
 JOHN.NGUYEN.CONTRACTOR@CROWNCASTLE.COM
 (657) 356-7940

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

- TOWER SCOPE OF WORK:**
- REMOVE (2) CCI HPA-658-BTU-116 ANTENNAS
 - REMOVE (2) ERICSSON RRUS-11
 - RELOCATE (1) COMBSCOPE SBNH4-106SC PANEL ANTENNA
 - RELOCATE (1) ERICSSON RRUS-32 B2
 - RELOCATE (1) ERICSSON RRUS-32 B3
 - RELOCATE (1) ERICSSON RRUS-4476 B14
 - RELOCATE (1) WLS-IMPQ-AMT-43 ANTENNA FILTER
 - INSTALL (2) ERICSSON B5/B12 4449
 - INSTALL (2) KATHREIN 800-10992 ANTENNAS
 - INSTALL (2) BACK TO BACK MOUNTS

- GROUND SCOPE OF WORK:**
- INSTALL (1) BASEBAND 6601 IN (E) RACK
 - INSTALL (1) BASEBAND 6630+IDLE IN (D) RACK
 - REMOVE (2) ERICSSON RRUS-12 B5

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2016 CALIFORNIA BUILDING CODE/2015 IBC
MECHANICAL	2016 CALIFORNIA MECHANICAL CODE/2015 UMC
ELECTRICAL	2016 CALIFORNIA ELECTRICAL CODE/2014 NEC

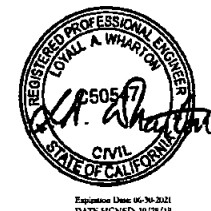
REFERENCE DOCUMENTS

RFDS REVISION: 1.0
 DATED: 04/01/19
 ORDER ID: 493444
 REVISION: 0

NOTE:
 PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 784-7011 & CROWN CONSTRUCTION MANAGER.

APPROVALS

THIS DOCUMENT IS THE PROPERTY OF M SQUARED WIRELESS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ALL DOCUMENTS ARE SUBJECT TO BE BORROWED BY THE LOCAL BUILDING DEPARTMENT & ALL INFORMATION IS TO BE KEPT CONFIDENTIAL.	
DATE: _____	DATE: _____
DATE: _____	DATE: _____
DATE: _____	DATE: _____
DATE: _____	DATE: _____
DATE: _____	DATE: _____



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.

SHEET NUMBER: **REVISION:**

T-1 **4**

[illegible]

1. FOR THE PURPOSE OF THE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
OWNER: CROWN CASTLE USA INC.
TOWER OWNER: CROWN CASTLE USA INC.

2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY ASSOCIATED WITH THE DESIGN OF COMMERCIAL BUILDINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND ASSURED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKFORCE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF THE INDUSTRY PRACTICES AND METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE WORK DEPICTED SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND SCHEDULES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY OF THE GENERAL PUBLIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF, BRACING, FORWARDING, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE ANY OF THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES, GENERAL NOTES, AND SPECIFICATIONS. THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

7. ALL MATERIALS FURNISHED AND INSTALLED SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LOCAL, STATE, FEDERAL, AND FEDERAL ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES.

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 338, ASTM A186, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 2,000 PSF.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'_c) OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE, NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90° AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADJUSTMENTS, AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND f'_c CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE I OR TYPE II PORTLAND CEMENT.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615, ALL WELDED IRON FABRIC (WIF) SHALL CONFORM TO ASTM A186. ALL SPICES SHALL BE CLASS "B" TENSION SPICES, UNLESS NOTED OTHERWISE, ALL HOOKS SHALL BE STANDARD 90° DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (f_y) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:

#4 BARS AND SMALLER	40 ksi
#5 BARS AND LARGER	60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	2"
#6 BARS AND LARGER	1-1/2"
#3 BARS AND SMALLER	1-3/4"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER	1"
SLAB AND WALLS	3/4"
BEAMS AND COLUMNS	1-1/2"
7. ALL CORNERS ON A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE.

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.

CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS MAINTAINED.

WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

ALL ELECTRICAL WORK SHALL BE IDENTIFIED BY THE FOLLOWING:

4.1. ALL EQUIPMENT SHALL BE LABELED BY THE UNDERWRITERS LABELS OF APPROVAL AND SHALL CONFORM TO REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

4.2. ALL CONDUITS SHALL BE LABELED WITH AN ENDORSED CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE BEING SUBJECTED, 20,000 AC AMPERES, VERIFY AVAILABLE SHORT CIRCUIT CURRENT BY CALCULATING SHORT CIRCUIT CURRENT AT THE LOCATION OF THE CONDUIT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PAGE THE GOVERNING JURISDICTION.

4.3. EACH END OF EVERY POWER PHASE CONDUIT, GROUNDING CONDUIT, AND TELECOM CONDUITOR OR CABLE SHALL BE LABELED WITH THE FOLLOWING INFORMATION:

4.3.1. IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.

4.3.2. ALL ELECTRICAL CONDUITS SHALL BE CLEARLY LABELED WITH LANDSCAPE TAGS SHOWING THEIR RATED VOLTAGE, CONDUIT MATERIAL, CONDUIT TYPE, CURRENT RATING, POWER OR AMPLACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL, BOARD AND CIRCUIT ID'S).

4.3.3. PANEL (BOARDS TO NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.

4.3.4. TELECOM SHALL BE LABELED WITH PLASTIC LABELS WITH THE FOLLOWING INFORMATION: SHARP ENDS.

4.4. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUIT (#14 OR LARGER) WITH TYPE THHN, THWN, THHN-2, XHHW, XHHW-2, THW, THW-2, RW-9, OR RW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

4.5. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATING INDOORS SHALL BE SINGLE COPPER CONDUIT (#8 OR LARGER) WITH TYPE THHN, THWN, THHN-2, XHHW, XHHW-2, THW, THW-2, RW-9, OR RW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

4.6. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.

4.7. POWER AND CONTROL WIRING IN CABLE THAT SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER) WITH TYPE THHN, THWN, THHN-2, XHHW, XHHW-2, THW, THW-2, RW-9, OR RW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

4.8. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL), LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75 °C

4.9. RACEWAY AND CABLE THAT SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

4.10. ALL METAL TUBING (EMT, INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC)) SHALL BE USED FOR EXPOSED MOUNTED LOCATIONS.

4.11. ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED UNDER FLOOR LOCATIONS.

4.12. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90'S AND ALL APPROVED ABOVE GRADE PVC CONDUIT.

4.13. FLUOROPOLYMER FLEXIBLE TUBING (FLUJO-TYPE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

4.14. CONDUIT THAT IS USED FOR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION.

4.15. USE SET SCREW FITTINGS ARE NOT ACCEPTABLE.

4.16. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

4.17. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPACED WIREWAYS).

4.18. SLOTTED METAL PLATE SHALL BE PVC OR ALUMINE COVER (PANCAKE TYPE E OR EQUAL).

4.19. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PENETRATING STRAPS AND HANGERS.

4.20. ALL CONDUITS (EXCEPT LUGS) SHALL BE FASTENED TO STRUCTURE OR TO STUDS TO BE SUPPORTED.

4.21. ALL CONDUITS SHALL BE FASTENED TO STRUCTURE, MANHOLE, OR TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.22. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.23. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.24. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.25. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.26. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.27. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.28. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.29. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.30. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.31. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.32. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.33. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.34. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.35. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.36. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.37. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.38. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.39. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.40. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.41. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.42. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.43. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.44. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.45. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.46. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.47. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.48. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.49. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.50. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.51. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.52. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.53. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.54. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.55. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.56. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.57. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.58. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.59. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.60. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.61. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.62. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.63. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.64. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.65. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.66. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.67. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.68. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.69. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.70. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.71. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.72. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.73. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.74. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.75. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.76. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.77. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.78. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.79. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.80. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.81. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.82. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.83. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.84. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.85. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

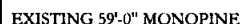
4.86. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.87. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF THE STRUCTURE.

4.88. CONDUITS SHALL BE FASTENED TO STRUCTURE AND TO STUDS TO BE SUPPORTED AND CLOSELY FOLLOW THE LINES OF

CONDUCTOR COLOR CODE	
SYSTEM	CONDUCTOR COLOR
120/240V, 1Ø	A PHASE BLA
	B PHASE REI
	NEUTRAL WHI
	GROUND GRN
120/208V, 3Ø	A PHASE BLA
	B PHASE REI
	C PHASE BLU
	NEUTRAL WHI
	GROUND GRN
277/480V, 3Ø	A PHASE BRO
	B PHASE ORA
	C PHASE YEL
	NEUTRAL GRN
	GROUND GRN
DC VOLTAGE	POS (+) RED
	NEG (-) BLA

(A)	ANTENNA	RBS	RADIO BASE STATION
(C)	EXISTING	RET	REMOTE ELECTRIC TLT
(D)	DATA INTERFACE FRAME GENERATOR	RFT	RADIO FREQUENCY DATA SHEET
(E)	GLOBAL POSITIONING SYSTEM	RSH	REMOTE RADIO HEAD
(F)	GLOBAL SYSTEM FOR MOBILE LONG TERM EVOLUTION	RSL	REMOTE RADIO SIGNAL
(G)	MASTER GROUND ILMU	RSN	SMART INTEGRATED DEVICE
(H)	WIRELESS MICROWAVE	RTM	TOWER MOUNTED AMPLIFIER
(I)	NEW NATIONAL ELECTRIC CODE	TYP	TYPICAL
(J)	PROPOSED	UHS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
(K)	PROPOSED	W.F.	WORK POINT



REV	DATE	DESCRIPTION	DES./Q
A	06/26/19	DGM 90% FOR REVIEW	JAC
B	07/08/19	TB 100% FOR SUBMITTAL	JAC
1	10/02/19	TB 100% REVISED	JAC
2	09/17/19	TB 100% REVISED	JAC
3	10/18/19	NC 100% REVISED	JAC
4	10/24/19	JC 100% REVISED	JAC
5	10/24/19	100% REVISED	JAC



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.

SHEET NUMBER: REVISION:

SHEET NUMBER: T-2	REVISION: 4
-----------------------------	-----------------------

ADJUSTABLE BAND CLAMP (TYP)

JUNCTION BOX

SERVICE ALTITUDE STATION (SAS)

DC POWER CABLE

P1000WT-HQ UNISTRUT

UNISTRUT PIPE CLAMP

AT WOOD STUD WALL:
 (1) 3/8" GALV. LAG BOLT IN PREDRILLED HOLE IN (C) WOOD STUD. FASTEN TO (2) ADJACENT STUDS FOR (2) TOTAL LAG BOLTS. LAG BOLTS TO HAVE MINIMUM 2.5" PENETRATION INTO STUD.
AT METAL STUD WALL:
 (1) 12-24 #16 BUILDUP TEXS SELF-DRILLING FASTENER (ICC ESR-1976) IN (C) METAL STUD. FASTEN TO (2) ADJACENT STUDS FOR (2) TOTAL FASTENERS.

AT CONCRETE WALL:
 (2) 3/8" SAMPSON STRONG-TIE STRONG-BOLT 2 WEDGE ANCHOR (ICC ESR-3037) WITH 8" SPACING. ANCHORS TO HAVE MINIMUM 2" NOMINAL EMBEDMENT.

AT MASONRY WALL (SOLID OR CRACKED):
 (2) 3/8" SAMPSON STRONG-TIE STRONG-BOLT 2 WEDGE ANCHOR (N/A MDL UES ER-240) WITH 8" SPACING. ANCHORS TO HAVE MINIMUM 3" NOMINAL EMBEDMENT INTO MASONRY.

AT MASONRY WALL (HOLLOW):
 (2) 3/8" THREADED RODS (ASTM F1554, F_y=36ksi) WITH 8" SPACING. THREADED RODS TO BE INSTALLED USING SAMPSON STRONG-TIE OPTI-MESH SCREEN TUBE EWS373P AND SET-XP EPOXY ADHESIVE.

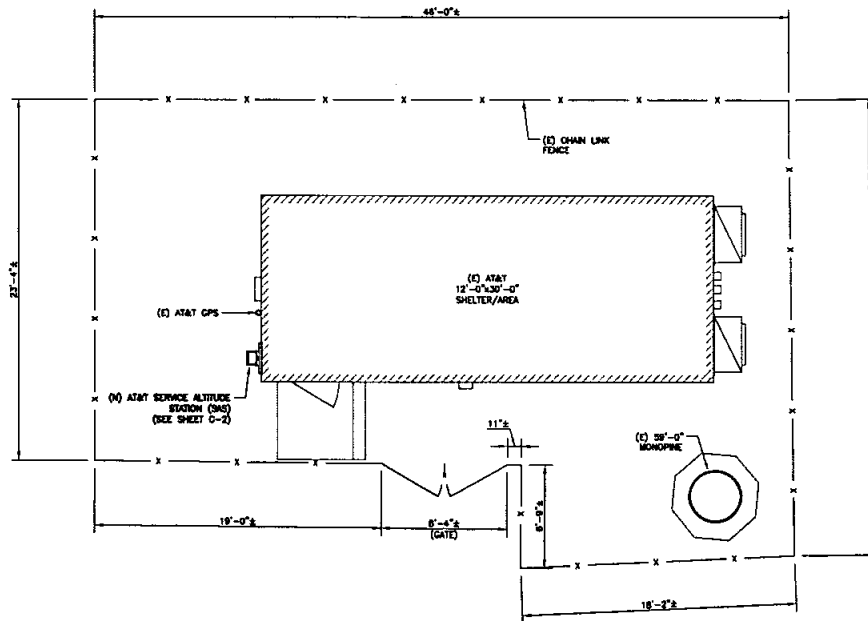
NOTES:
 1. ALL UNISTRUT TO EXTEND A MINIMUM OF 4" PAST ANCHOR LOCATIONS.
 2. ALL FASTENERS TO BE INSTALLED WITH CORRECTLY SIZED LOCK WASHERS AND FLAT WASHERS.
 3. ALL WALL PENETRATIONS TO BE SEALED WITH AN EXTERIOR GRADE SILICONE SEAL TO CREATE A WATER/TIGHT SEAL AROUND WALL PENETRATIONS.

(C) SHELTER

IN GREEN INSULATED STRANDED COPPER WIRE TO NEAREST GROUND BUS

② GENERIC SAS MOUNTING DETAIL
SCALE: NOT TO SCALE





1 SITE PLAN
SCALE: 3/16"=1'-0" (FULL SET)
3/25"=1'-0" (1 IN 10)



AT&T SITE NUMBER: SD0300

BU #: 816130
UNIVERSITY AVE.
NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115
EXISTING 59'-0" MONOPINE

ISSUED FOR:				
REV	DATE	BY	DESCRIPTION	DESIGN
0	09/08/79	YG	CONSTRUCTION	LAND



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.

SHEET NUMBER: C-1
REVISION: 0

- ## GREENFIELD GROUNDING NOTES

- GENERAL NOTES:**

1. FOR THE PURPOSE OF THE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY ASSOCIATED WITH THE TYPE OF PROJECT AND THE TYPE OF CONTRACTOR. THE CONTRACTOR SHALL BE ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE DRAWINGS. ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REFLECT THE DESIGN OF THE STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, MATERIALS, AND SEQUENCES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. THE CONTRACTOR SHALL BE LIMITED TO BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE THE REVIEW OF THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, NOTICES, AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY DETAILS FOR THE CONSTRUCTION OF THE WORK. ALL GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DIMENSIONS AND MEASUREMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
5. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DIMENSIONS AND MEASUREMENTS.
6. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL UNLAWFUL ORDINANCES, RULES, AND ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY REGULATIONS AND ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, NOTICES, AND DETAILS IN THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, NOTICES, AND DETAILS IN THE CONSTRUCTION DRAWINGS.
7. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING, MATERIALS, CABLES, APPURTENANCES AND LABOUR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER OF RECORD PRIOR TO ANY ALTERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL DOWNSPOUTS FOR POWER, AND TELCO AND FOR ALL CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING DRAWINGS.
11. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC. THE CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. MATERIALS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A186, ASTM A185 AND A187, THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CASE 40-40-PLACEMENT.
2. UNLESS NOTED OTHERWISE, SLO BEARING PREDICTION USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO 1000 PSI.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'_c) OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 80 MILES TEMPERATURE FLUCTUATION FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. SLAB CLAUSE OF CONCRETE SHALL NOT EXCEED 80° AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AN ENTRAINED ADJUTANTS, AMOUNT OF AIR: EXTENDING TO BE BASED ON SIZE OF AGGREGATE AND f'_c CLASS SPECIFICATION (VERY SEVERE). CEMENT USED TO BE TYPE I PORTLAND CEMENT AND CEMENT WATER TO AGGREGATE RATIO TO EXCEED 0.50.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A186, ALL WELDED IRON FABRIC (WTF) SHALL CONFORM TO ASTM A186, ALL SPACINGS SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE, ALL HOOKS SHALL BE STANDARD. ALL DEGREE HOOKS, UNLESS NOTED OTHERWISE, TIE STRENGTH (f_t) OF STANDARD, DEFORMED BARS ARE AS FOLLOWS:
- | | |
|--------------------------|--------|
| #4 BARS AND SMALLER..... | 40 ksi |
| #5 BARS AND LARGER..... | 60 ksi |
6. THE FOLLOWING MINIMUM CONCRETE COVER TO EXPOSED REINFORCING STEEL, UNLESS SHOWN OTHERWISE, ON DRINKERS:
- | | |
|---|--------|
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH..... | 3" |
| CONCRETE EXPOSED TO EARTH OR WEATHER..... | 2" |
| #6 BARS AND LARGER..... | 3" |
| #3 BARS AND SMALLER..... | 1-1/2" |
| CONCRETE NOT EXPOSED TO EARTH OR WEATHER..... | 3/4" |
| SLAB AND WALLS..... | 3/4" |
| BEAMS AND COLUMNS..... | 1-1/2" |
7. A TOLERANCE OF 1/8" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301, SECTION 4.8.2.

ELECTRICAL INSTALLATION NOTES:

- [illegible]

CONDUCTOR COLOR CODE		
SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
277/480V, 3Ø	GROUND	GREEN
	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
DC VOLTAGE	GROUND	GREEN
	POS (+)	RED**
	NEG (-)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)

44 FOLIOITY MARKED AT TERMINATION

ABBREVIATIONS:

- | | |
|-------|--|
| ANT | ANTENNA |
| (C) | EXISTING |
| GEN | GENERATOR |
| GPS | GLOBAL POSITIONING SYSTEM |
| GPS | GLOBAL SYSTEM FOR MOBILE |
| LEV | LONG TERM EVOLUTION |
| MGR | MASTER GROUND BRANCH |
| MB | MOBILE |
| (H) | NEW |
| (N) | NATIONAL ELECTRIC CODE |
| (P) | PROPOSED |
| PP | POWER PLANT |
| QTY | QUANTITY |
| RECT | RECTIFIER |
| RES | RADIO BASE STATION |
| RF | RADIO FREQUENCY TILT |
| RFDS | RADIO FREQUENCY DATA SHEET |
| RHD | RADIO HEAD |
| RH1 | REMOBILE RADIO UNIT |
| SMD | SMART INTEGRATED DEVICE |
| TMA | TOWER MOUNTED AMPLIFIER |
| TYP | TYPICAL |
| UNITS | UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM |

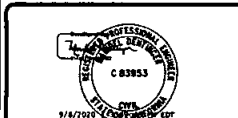


BU #: 816130
UNIVERSITY AVE.

NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115

EXISTING 59'-0" MONOPINE

ISSUED FOR:				
REV	DATE	DRAWN	DESCRIPTION	DES
0	11/18/20	TG	CONSTRUCTION	11/18/20



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.

SHEET NUMBER:	REVISION:
----------------------	------------------

T-2	0
-----	---



AT&T SITE NUMBER:
AT&T SITE NAME:
AT&T FA CODE:
SITE TYPE:

SD0300
UNIVERSITY AVENUE
10085149
MONOPINE

BUSINESS UNIT #:	816130
SITE ADDRESS:	NORTH OF DARNALL SCHOOL
COUNTY:	SAN DIEGO
TOWER HEIGHT:	59'-0"

PROJECT: AT&T WEATHER SENSOR

SITE INFORMATION	
CROWN CASTLE USA INC.	UNIVERSITY AVE.
SITE NAME:	NORTH OF DARNALL SCHOOL
SITE ADDRESS:	SAN DIEGO, CA 92115
COUNTY:	SAN DIEGO
MAP/PARCEL #:	472-470-08-00
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	32° 44' 55.18"
LONGITUDE:	-117° 04' 01.10"
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	470 FT.
CURRENT ZONING:	OR-I-1
JURISDICTION:	DIVISION OF STATE ARCHITECTS (DSA)
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	CITY TREASURER, CITY OF SAN DIEGO POST OFFICE BOX 129030 SAN DIEGO, CA 92112-9030
TOWER OWNER:	CROWN CASTLE GT COMPANY LLC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSTT GROUP 7337 TRADE STREET SAN DIEGO, CA 92121
ELECTRIC PROVIDER:	SAN DIEGO GAS & ELECTRIC (607) 611-7343
TELCO PROVIDER:	AT&T (866) 626-6900

[illegible]

LOCATION MAP

EL ESTERO DE SAN JUAN
117 00001

CALLE 1
CALLE 2
CALLE 3
CALLE 4
CALLE 5
CALLE 6
CALLE 7
CALLE 8
CALLE 9
CALLE 10
CALLE 11
CALLE 12
CALLE 13
CALLE 14
CALLE 15
CALLE 16
CALLE 17
CALLE 18
CALLE 19
CALLE 20
CALLE 21
CALLE 22
CALLE 23
CALLE 24
CALLE 25
CALLE 26
CALLE 27
CALLE 28
CALLE 29
CALLE 30
CALLE 31
CALLE 32
CALLE 33
CALLE 34
CALLE 35
CALLE 36
CALLE 37
CALLE 38
CALLE 39
CALLE 40
CALLE 41
CALLE 42
CALLE 43
CALLE 44
CALLE 45
CALLE 46
CALLE 47
CALLE 48
CALLE 49
CALLE 50
CALLE 51
CALLE 52
CALLE 53
CALLE 54
CALLE 55
CALLE 56
CALLE 57
CALLE 58
CALLE 59
CALLE 60
CALLE 61
CALLE 62
CALLE 63
CALLE 64
CALLE 65
CALLE 66
CALLE 67
CALLE 68
CALLE 69
CALLE 70
CALLE 71
CALLE 72
CALLE 73
CALLE 74
CALLE 75
CALLE 76
CALLE 77
CALLE 78
CALLE 79
CALLE 80
CALLE 81
CALLE 82
CALLE 83
CALLE 84
CALLE 85
CALLE 86
CALLE 87
CALLE 88
CALLE 89
CALLE 90
CALLE 91
CALLE 92
CALLE 93
CALLE 94
CALLE 95
CALLE 96
CALLE 97
CALLE 98
CALLE 99
CALLE 100

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO PROPOSE AN ANTENNA MODIFICATION ON AN EXISTING WIRELESS SITE.

FINAL TOWER CONFIGURATION:

- NO CHANGES

FINAL GROUND CONFIGURATION:

- INSTALL (1) SERVICE ALTITUDE STATION (SAS)

APPLICABLE CODES	
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:	
CODE TYPE	CODE
BUILDING	2019 CALIFORNIA BUILDING CODE (CBC)/2018 IBC
MECHANICAL	2019 CALIFORNIA MECHANICAL CODE (CMC)/2018 UMC
ELECTRICAL	2019 CALIFORNIA ELECTRICAL CODE (CEC)/2017 NEC
REFERENCE DOCUMENTS:	
ORDER ID: 528274	
REVISION: 0	

PROJECT TEAM	
AAE FIRM:	CROWN CASTLE USA INC. 200 CORPORATE DRIVE CANONSBURG, PA 15317 CROWN.AE.APPROVAL@CROWNCastle.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	204 SPECTRUM CENTER DRIVE, SUITE 1700 & 1800 IRVINE, CA 92618 MELISSA HICKS - PROJECT MANAGER (512) 652-2105 GABRIEL MORALES - CONSTRUCTION MANAGER (949) 230-4359



AT&T SITE NUMBER: SD0300

BU #: 816130
UNIVERSITY AVE.

NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115

EXISTING 59'-0" MONOPINE

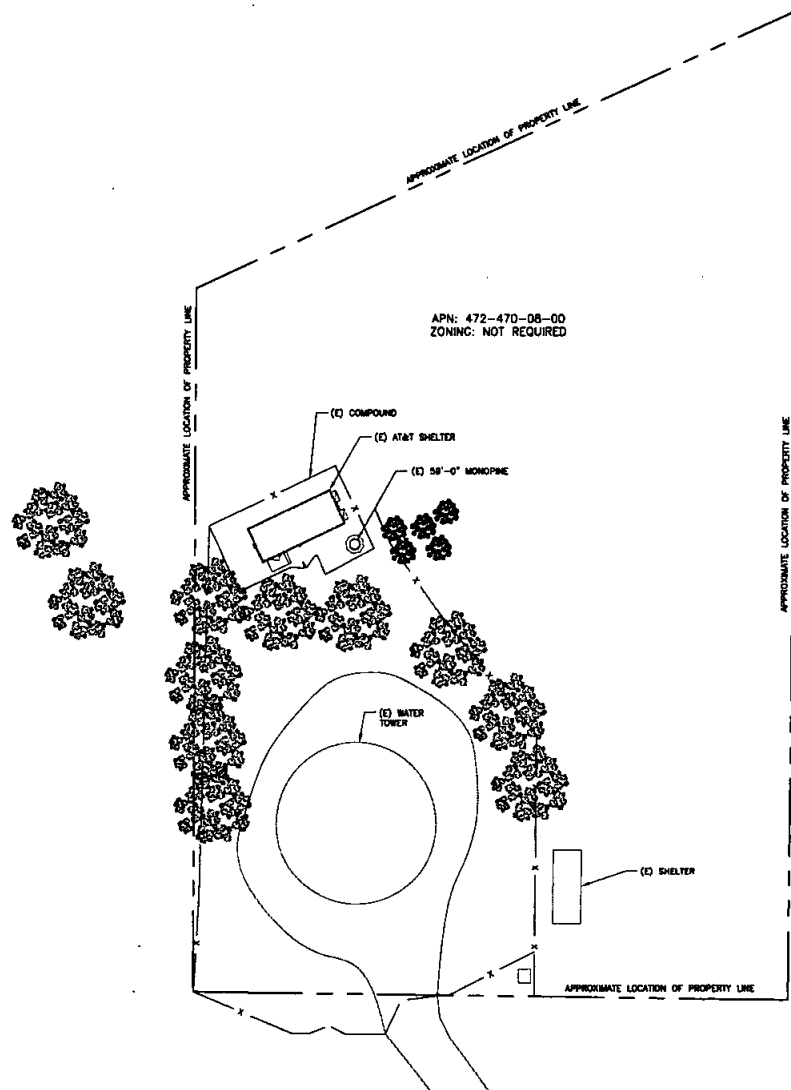
[illegible]

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.

SHEET NUMBER: T-1	REVISION: 0
-----------------------------	-----------------------

SITE PLAN DISCLAIMER:

PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM PREVIOUS PLAN SETS OR FROM ASSESSORS MAPS. CROWN CASTLE USA INC. HAS NOT COMPLETED A SITE SURVEY AND THEREFORE MAKES NO CLAIMS AS TO THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET.



1 OVERALL SITE PLAN
SCALE: 1"=80'-0" (TYP. SIZE)
1"=60'-0" (1:600)



AT&T SITE NUMBER: SD300

BU #: 816130
UNIVERSITY AVE.

NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115

EXISTING 59'-0" MONOPINE

ISSUED FOR:

REV	DATE	BY	DESCRIPTION	CHK/APP
A	06/26/19	DCM	10% FOR REVIEW	JAC
B	07/09/19	TB	100% FOR SUBMITTAL	JAC
1	09/02/19	TB	100% REVISED	JAC
2	09/17/19	TB	100% REVISED	JAC
3	10/18/19	MC	100% REVISED	JAC
4	10/24/19	JC	100% REVISED	JAC
5	10/28/19	TB	100% REVISED	JAC



Expiration Date: 10/30/2021
DATA SECURITY: 10/28/19

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.

SHEET NUMBER: C-1.1
REVISION: 4

STRUCTURE W/ APPURTENANCE
ELEV. = 85'-0"

ANTENNAS TIP HEIGHT
ELEV. = 280'-0"

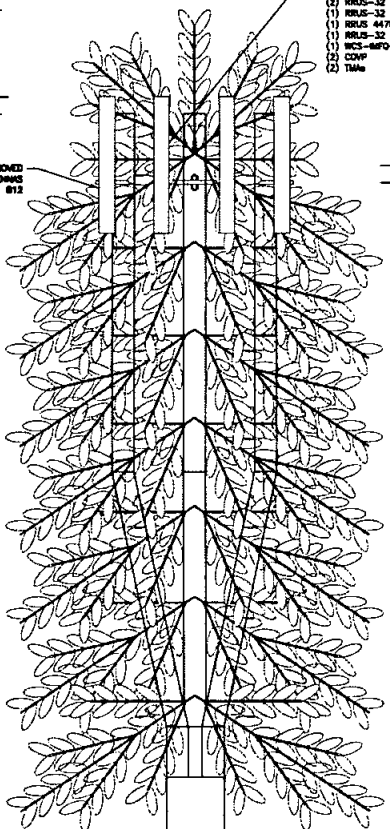
HEIGHT OF STRUCTURE
ELEV. = 59'-0"

(X) AT&T EQUIPMENT TO BE REMOVED
(X) HPA-808-BLA-HB ANTENNAS
(X) ROLUS 11 812

(E) AT&T EQUIPMENT TO REMAIN
(X) COMMSCOPE-SB884-108SC ANTENNAS
(X) KATHREIN 80010788 ANTENNAS
(X) ROLUS-32 806A
(1) ROLUS-32 830
(1) ROLUS 4478 814
(1) ROLUS-32 82
(1) WCS-BFO-ANT-43 ANTENNA FILTER
(X) CONP
(X) TWA

EXISTING AT&T ACL
ELEV. = 256'-0"

EXISTING AT&T MCL
ELEV. = 255'-0"



(X) 59'-0" MONOPINE

1 EXISTING EAST ELEVATION
SCALE: NOT TO SCALE

STRUCTURE W/ APPURTENANCE
ELEV. = 65'-0"

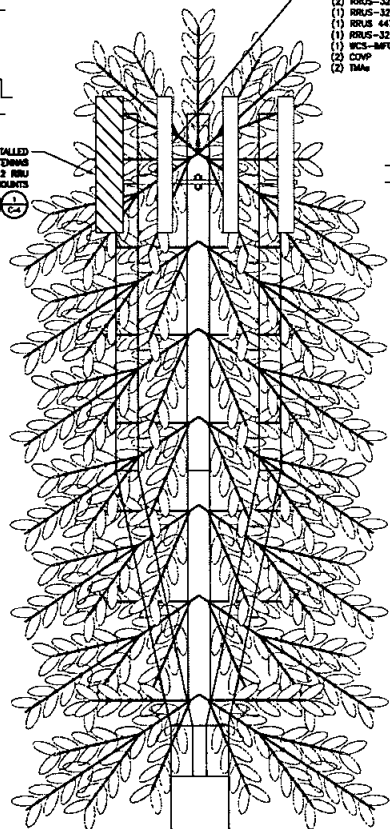
ANTENNAS TIP HEIGHT
ELEV. = 280'-0"

HEIGHT OF STRUCTURE
ELEV. = 59'-0"

(X) AT&T EQUIPMENT TO BE INSTALLED
(X) KATHREIN 80010882 ANTENNAS
(X) ERICSSON 4448 85/812 HBU
(X) BACK TO BACK MOUNTS

EXISTING & NEW AT&T ACL
ELEV. = 256'-0"

EXISTING AT&T MCL
ELEV. = 255'-0"



(X) 59'-0" MONOPINE

2 NEW EAST ELEVATION
SCALE: NOT TO SCALE

MOUNT ANALYSIS NOTES:

1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING MOUNT ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY EOR.

INSTALLER NOTE:

TOWER DOES NOT HAVE CLIMBING FACILITIES - HANLIFT REQUIRED FOR ELEVATED WORK.

NOTES:

ALL NEW EQUIPMENT TO BE PAINTED TO MATCH EXISTING.



AT&T SITE NUMBER: SD300

BU #: 816130
UNIVERSITY AVE.

NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115

EXISTING 59'-0" MONOPINE

ISSUED FOR:

REV	DATE	DRAWN	DESCRIPTION	CHKD/APP
A	06/26/19	DNM	90% PLAN REVIEW	JAC
0	07/09/19	TB	100% PLAN SUBMITTAL	JAC
1	09/02/19	TB	100% PLAN REVIEW	JAC
2	09/17/19	TB	100% PLAN REVIEW	JAC
3	10/28/19	JAC	100% PLAN REVIEW	JAC
4	10/28/19	JAC	100% PLAN REVIEW	JAC
5	10/28/19	TB	100% PLAN REVIEW	JAC



Expiration Date 06-30-2021
DATE SIGNED 10/28/19

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.

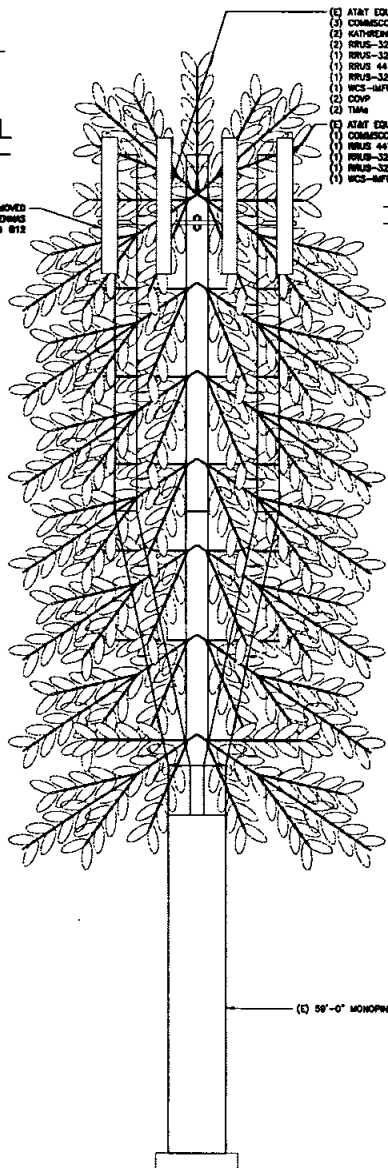
SHEET NUMBER: **C-2.1** REVISION: **4**

STRUCTURE W/ APPURTENANCE
ELEV. = 85'-0"

ANTENNAS TP HEIGHT
ELEV. = 260'-0"

HEIGHT OF STRUCTURE
ELEV. = 59'-0"

(C) AT&T EQUIPMENT TO BE REMOVED
(C) 4478 814 ANTENNAS
(C) 4478 814 ANTENNAS



1 EXISTING WEST ELEVATION
SCALE: NOT TO SCALE

(C) AT&T EQUIPMENT TO REMAIN
(C) COMSCOPE-5844-108SC ANTENNAS
(C) KATHREIN 80010786 ANTENNAS
(C) RRU-32 808A
(C) RRU-32 830
(C) RRU-4478 814
(C) RRU-32 82
(C) WCS-8478-ANT-43 ANTENNA FILTER
(C) COMP
(C) TMA
(C) AT&T EQUIPMENT TO BE RELOCATED
(C) COMSCOPE-5844-108SC ANTENNAS
(C) KATHREIN 80010786 ANTENNAS
(C) RRU-32 808A
(C) RRU-32 830
(C) RRU-4478 814
(C) RRU-32 82
(C) WCS-8478-ANT-43 ANTENNA FILTER

EXISTING AT&T ACL
ELEV. = 256'-0"

EXISTING AT&T ACL
ELEV. = 255'-0"

MOUNT ANALYSIS NOTES:

1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING MOUNT ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY LOR.

INSTALLER NOTE:

TOWER DOES NOT HAVE CLIMBING FACILITIES - MAINTENANCE REQUIRED FOR ELEVATED WORK.

NOTES:

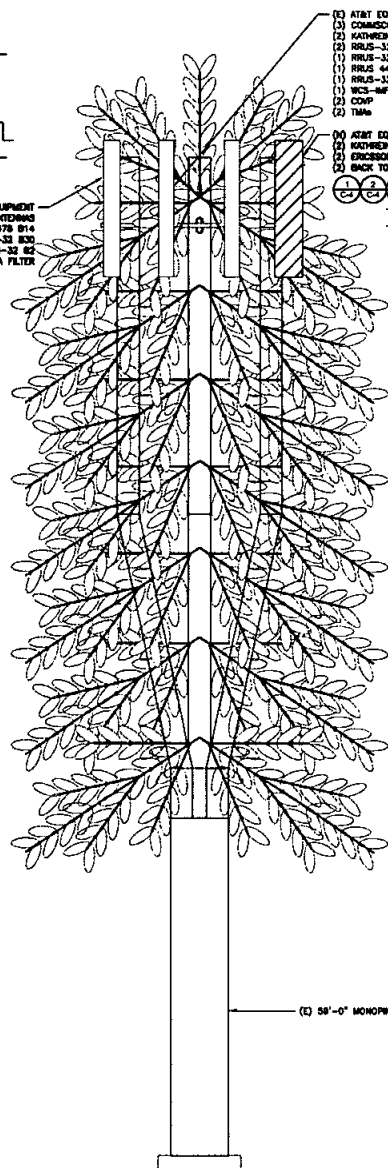
ALL NEW EQUIPMENT TO BE PAINTED TO MATCH EXISTING.

STRUCTURE W/ APPURTENANCE
ELEV. = 85'-0"

ANTENNAS TP HEIGHT
ELEV. = 260'-0"

HEIGHT OF STRUCTURE
ELEV. = 59'-0"

(C) RELOCATED AT&T EQUIPMENT
(C) COMSCOPE-5844-108SC ANTENNAS
(C) KATHREIN 80010786 ANTENNAS
(C) RRU-32 808A
(C) RRU-32 830
(C) RRU-4478 814
(C) RRU-32 82
(C) WCS-8478-ANT-43 ANTENNA FILTER



2 NEW WEST ELEVATION
SCALE: NOT TO SCALE

(C) AT&T EQUIPMENT TO REMAIN
(C) COMSCOPE-5844-108SC ANTENNAS
(C) KATHREIN 80010786 ANTENNAS
(C) RRU-32 808A
(C) RRU-32 830
(C) RRU-4478 814
(C) RRU-32 82
(C) WCS-8478-ANT-43 ANTENNA FILTER
(C) COMP
(C) TMA
(C) AT&T EQUIPMENT TO BE INSTALLED
(C) KATHREIN 80010786 ANTENNAS
(C) CROSSON 4448 80/812 RRU
(C) BACK TO BACK MOUNTS

EXISTING & NEW AT&T ACL
ELEV. = 256'-0"

EXISTING AT&T ACL
ELEV. = 255'-0"



575 MOROSCO DRIVE
ATLANTA, GA 30324-3300



200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618



1887 GALLS AVENUE
SAN CLEMENTE, CA 92673 (949) 361-4024

AT&T SITE NUMBER: SD300

BU #: 816130
UNIVERSITY AVE.

NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115

EXISTING 59'-0" MONOPINE

ISSUED FOR:

REV	DATE	BY	DESCRIPTION	CHKD
1	04/26/19	JAC	FOR REVIEW	JAC
2	05/06/19	TR	FOR REVIEW	JAC
3	06/07/19	TR	100% REVISED	JAC
4	06/12/19	TR	100% REVISED	JAC
5	06/18/19	JAC	100% REVISED	JAC
6	06/24/19	JAC	100% REVISED	JAC
7	06/28/19	TR	100% REVISED	JAC



Expires 12/31/2021
DATE SIGNED: 06/28/19

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

SHEET NUMBER:

C-2.2

REVISION:

4

EXISTING EQUIPMENT SCHEDULE (VERIFY WITH CURRENT RFDS)														
SECTOR A														
POSITION	TECH	ANTENNA MODEL	AZIMUTH	BO CENTER	QTY	STATUS/MODEL	QTY	STATUS	QTY	STATUS	QTY	STATUS/MODEL	QTY	TYPE
A1	LTE 700 LTE 1900	(E) CC HRA-35R-BU-18	80°	56°-0'	1	(E) RRUS 11 B12 (E) RRUS 32 B2	-	-	-	-	-	-	-	-
A2	LTE 850 LTE AMS	(E) COMSCOPE SBH4-10BSC	80°	56°-0'	1	(E) RRUS 12 B5 (E) RRUS 32 B8A	-	-	-	-	-	-	-	-
A3	UMTS 850 OTHER	(E) KATHREIN 80010768	80°	56°-0'	-	-	-	-	1	(E)	-	-	-	-
A4	LTE 700 LTE WCS	(E) COMSCOPE SBH4-10BSC	80°	56°-0'	1	(E) RRUS B14 4478 (E) RRUS-32-830	1	(E)	-	-	-	-	-	-
SECTOR C														
C1	LTE 700 LTE 1900	(E) CC HRA-35R-BU-18	280°	56°-0'	1	(E) RRUS 11 B12 (E) RRUS 32 B2	-	-	-	-	-	-	-	-
C2	LTE 850 LTE AMS	(E) COMSCOPE SBH4-10BSC	280°	56°-0'	1	(E) RRUS 12 B5 (E) RRUS 32 B8A	-	-	-	-	-	-	-	-
C3	UMTS 850 OTHER	(E) KATHREIN 80010768	280°	56°-0'	-	-	-	-	1	(E)	-	-	-	-
C4	LTE 700 LTE WCS	(E) COMSCOPE SBH4-10BSC	280°	56°-0'	1	(E) RRUS B14 4478 (E) RRUS-32-830	1	(E)	-	-	-	-	-	-

NOTE:
(E) - EXISTING
(N) - NEW

* DENOTES EQUIPMENT @ GROUND LEVEL
** DENOTES EQUIPMENT TO BE RELOCATED

~ DENOTES SHARED ACROSS ALL SECTORS

0 (X) UNUSED

FINAL EQUIPMENT SCHEDULE (VERIFY WITH CURRENT RFDS)														
SECTOR A														
POSITION	TECH	ANTENNA MODEL	AZIMUTH	BO CENTER	QTY	STATUS/MODEL	QTY	STATUS	QTY	STATUS	QTY	STATUS/MODEL	QTY	TYPE
A1	LTE 700 LTE 1900	(N) KATHREIN 80010892	80°	56°-0'	1	(N) RRUS 4448 (E) RRUS 32 B2	-	-	-	-	-	-	-	-
A2	LTE 850 LTE AMS	(E) COMSCOPE SBH4-10BSC	80°	56°-0'	1	(E) RRUS 32 B8A	-	-	-	-	-	-	-	-
A3	UMTS 850 OTHER	(E) KATHREIN 80010768	80°	56°-0'	-	-	-	-	-	-	-	-	-	-
A4	LTE 700 LTE WCS	(E) COMSCOPE SBH4-10BSC	80°	56°-0'	1	(E) RRUS B14 4478 (E) RRUS-32-830	1	(E)	-	-	-	-	-	-
SECTOR C														
C1	LTE 700 LTE WCS	(N) COMSCOPE SBH4-10BSC	280°	56°-0'	1	(N) RRUS B14 4478 (E) RRUS-32-830	1	(E)	-	-	-	-	-	-
C2	LTE 850 LTE AMS	(E) COMSCOPE SBH4-10BSC	280°	56°-0'	1	(E) RRUS 32 B8A	-	-	-	-	-	-	-	-
C3	UMTS 850 OTHER	(E) KATHREIN 80010768	280°	56°-0'	-	-	-	-	-	-	-	-	-	-
C4	LTE 700 LTE 1900	(N) KATHREIN 80010892	280°	56°-0'	1	(N) RRUS 4448 (E) RRUS 32 B2	-	-	-	-	-	-	-	-

NOTE:
(E) - EXISTING
(N) - NEW

* DENOTES EQUIPMENT @ GROUND LEVEL
** DENOTES RELOCATED EQUIPMENT

~ DENOTES SHARED ACROSS ALL SECTORS

0 (X) UNUSED

LOOK UP - CROWN CASTLE USA, INC.
SAFETY CLIMB REQUIREMENT.

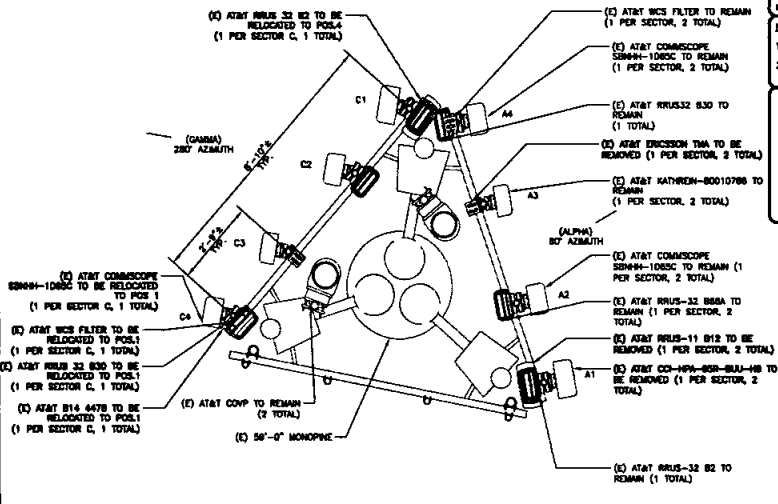
THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NCC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

NOTES:

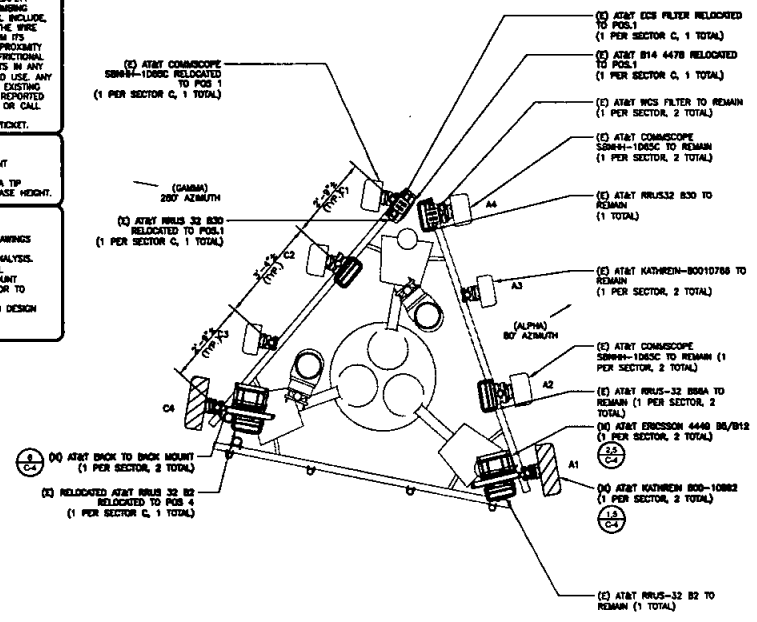
- REFERENCE C-4 FOR NEW EQUIPMENT SPECIFICATIONS.
- CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.

MOUNT ANALYSIS NOTES:

- THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING MOUNT ANALYSIS. CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
- ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY EDR.



1 EXISTING ANTENNA PLAN
SCALE: 1/2\"=1'-0\" (PALL 800)
1/4\"=1'-0\" (1:1117)



2 NEW ANTENNA PLAN
SCALE: 1/2\"=1'-0\" (PALL 800)
1/4\"=1'-0\" (1:1117)

575 MOROSCO DRIVE
ATLANTA, GA 30324-3300

200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618

1887 CALLE AVAREZADO
SAN CLEMENTE CA 95070 (PH) 951-4521

AT&T SITE NUMBER: SD300

BU #: 816130
UNIVERSITY AVE.

NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115

EXISTING 59'-0\" MONOPINE

ISSUED FOR:

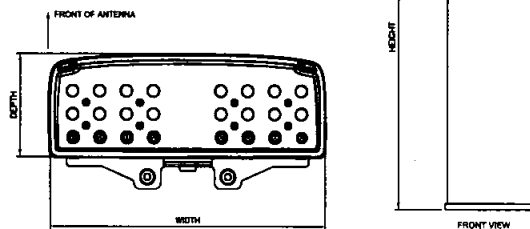
REV	DATE	DRAWN	DESCRIPTION	DESIGN
A	06/25/19	EDM	10% FOR REVIEW	JAC
D	07/09/19	TR	100% FOR SUBMITTAL	JAC
1	09/02/19	TR	100% REVISED	JAC
2	09/17/19	TR	100% REVISED	JAC
3	10/18/19	NC	100% REVISED	JAC
4	10/24/19	JC	100% REVISED	JAC
5	10/28/19	TR	100% REVISED	JAC

Expiration Date 06-30-2021
DATE REISSUED 10/28/19

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

SHEET NUMBER: C-3
REVISION: 4

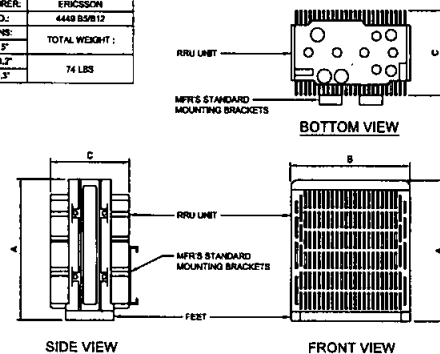
MANUFACTURER: KATHREIN
MODEL NO.: 800-10992
DIMENSIONS (HxWxD): 98.7 X 20 X 5.8 INCHES
WIND SPEED, MAXIMUM: > 150.0 MPH
WIND LOAD, MAXIMUM: 990 N @ 150 km/h
FRONT: 221 N @ 150 km/h
SIDE: 158 LBS (72.5 KG)
WEIGHT (WITHOUT MOUNTING): 4.7-10 DIN FEMALE - BOTTOM
CONNECTOR: 34.8 INCHES (8-11.6 CM)
MOUNTING POLE:



NOTE: PRIOR TO ORDERING ANTENNAS, VERIFY CORRECT MODEL NUMBER WITH LATEST RFPS AND NOTIFY ENGINEER OF RECORD IMMEDIATELY IF DISCREPANCY IS FOUND.

1 KATHREIN 800-10992
SCALE: NOT TO SCALE

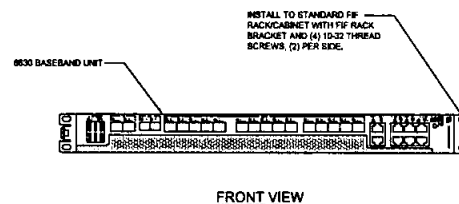
MANUFACTURER: ERICSSON
MODEL NO.: 4449 B5/B12
DIMENSIONS: TOTAL WEIGHT: 74 LBS
A 15.7
B 13.2
C 9.3



2 ERICSSON RRU - 4449 B5/B12
SCALE: NOT TO SCALE

MANUFACTURER: ERICSSON
MODEL NO.: 6630 STAND-ALONE BASEBAND
DIMENSIONS (HxWxD): 7" x 10" x 17"
WEIGHT: 10 LBS

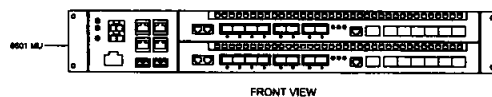
* INSTALL INSIDE NEW RACK/CABINET.
* INSTALLATION INTO EXISTING CABINET OR RACK
REQUIRES NO SPECIAL INSPECTIONS.



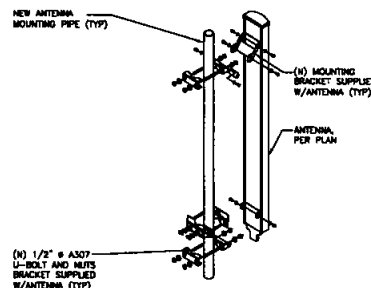
3 6630+IDLE BASEBAND UNIT
SCALE: NOT TO SCALE

MANUFACTURER: ERICSSON
MODEL NO.: 6601 MU
DIMENSIONS (HxWxD): 2.8" x 18" x 13.7" INCHES
WEIGHT: 22 LBS (10.4 KG)

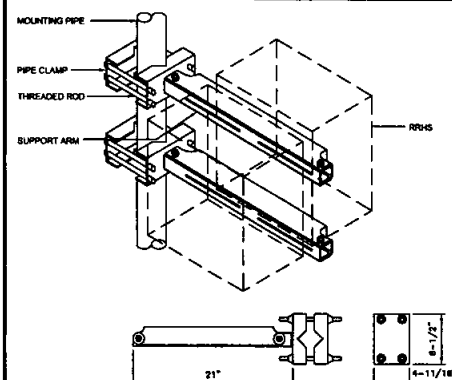
* INSTALLATION INTO EXISTING CABINET OR RACK
REQUIRES NO SPECIAL INSPECTIONS.



4 6601 MU BASEBAND UNIT
SCALE: NOT TO SCALE



5 ANTENNA MOUNTING
SCALE: NOT TO SCALE



6 D220RRUD5M DUAL RRU MOUNT
SCALE: NOT TO SCALE

at&t
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
200 SPECTRUM CENTER DRIVE,
SUITE 1700 & 1800
IRVINE, CA 92618

M SQUARE WIRELESS
1557 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-4024

AT&T SITE NUMBER: SD300

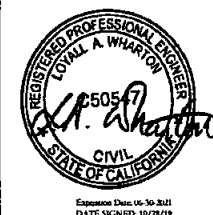
BU #: 816130
UNIVERSITY AVE.

NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115

EXISTING 59'-0" MONOPINE

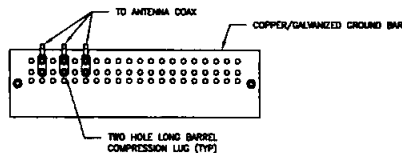
ISSUED FOR:

REV	DATE	ISSUED FOR	REVISION	BY
1	04/26/19	DRM	100% FOR REVIEW	JAC
2	07/08/19	TR	100% FOR REVIEW	JAC
3	10/02/19	TR	100% REVISED	JAC
4	09/17/19	TR	100% REVISED	JAC
5	10/18/19	JAC	100% REVISED	JAC
6	10/28/19	JAC	100% REVISED	JAC
7	10/28/19	TR	100% REVISED	JAC



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

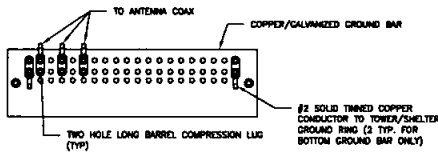
SHEET NUMBER: C-4
REVISION: 4



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL.

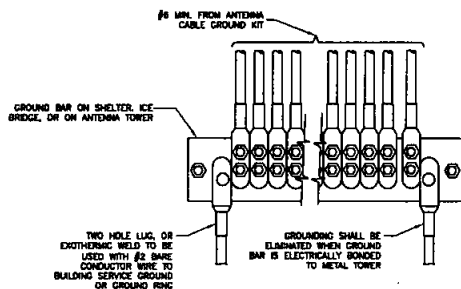
1 ANTENNA GROUND BAR DETAIL
SCALE: NOT TO SCALE



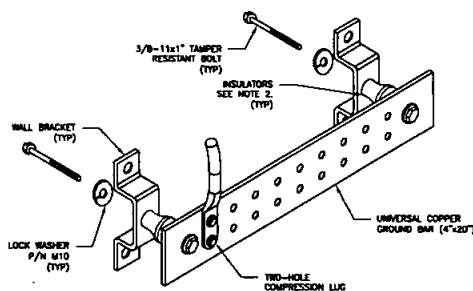
NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



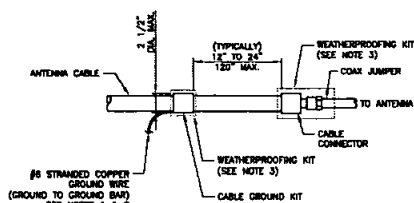
4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER. PER THE GROUNDING DOWN CONDUCTOR POLICY GAS-STD-10081, NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

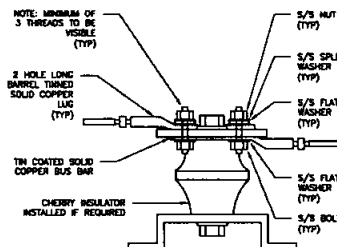
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

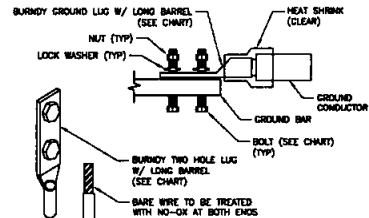
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

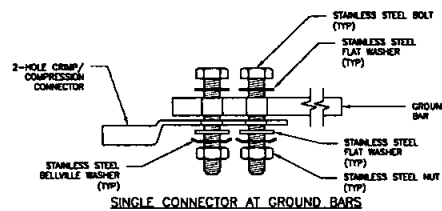
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YASC-21C36	3/8" - 18 NC SS 2 BOLT
#2 SOLID TINED	YASC-21C36	3/8" - 18 NC SS 2 BOLT
#2 STRANDED	YASC-21C36	3/8" - 18 NC SS 2 BOLT
#2/0 STRANDED	YASC-21C36	3/8" - 18 NC SS 2 BOLT
#4/0 STRANDED	YASC-2N	1/2" - 18 NC SS 2 BOLT



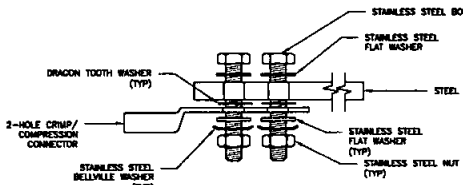
NOTE:

ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

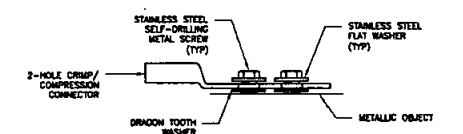
3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



AT&T SITE NUMBER: SD300

BU #: 816130
UNIVERSITY AVE.

NORTH OF DARNALL
SCHOOL
SAN DIEGO, CA 92115

EXISTING 59'-0" MONOPINE

REV	DATE	DRWN	DESCRIPTION	CHK/APP
A	06/28/19	DCM	90% FOR REVIEW	JSC
0	07/08/19	TB	100% FOR SUBMITTAL	JSC
1	09/02/19	TB	100% REVISED	JSC
2	09/17/19	TB	100% REVISED	JSC
3	10/16/19	MC	100% REVISED	JSC
4	10/24/19	JC	100% REVISED	JSC
5	10/28/19	TB	100% REVISED	JSC



Exemption Date 06-30-2021
DATE REENTRY 10/28/19

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.

SHEET NUMBER: G-1
REVISION: 4

Enabled Security Settings:	Allow per session cookies
----------------------------------	---------------------------

These minimum requirements are subject to change. If these requirements change, you will be asked to re-accept the disclosure. Pre-release (e.g. beta) versions of operating systems and browsers are not supported.

Acknowledging your access and consent to receive documents electronically

Please confirm that you were able to access this disclosure electronically (which is similar to the manner in which we will deliver documents for execution and other documents and records) and that you were able to print this disclosure on paper or electronically save it for your future reference and access or that you were able to e-mail this disclosure to an address where you will be able to print it on paper or save it for your future reference and access. Further, if you consent to receiving documents for execution and other documents and records in electronic format on the terms described above, please let us know by clicking the "I agree" button below.

By checking the 'I agree' box, I confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- As a recipient, you can read, electronically sign and act upon this message, and you agree not to forward it or any other DocuSign e-mail communications. In the event another party needs to be added to the DocuSign communication, you must make a request to the e-mail originator.

Parties agreed to: Maribel Dentinger

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

In order to provide more efficient and faster service, Crown Castle ("we", "us" or "company") is pleased to announce the use of DocuSign, Inc. ("DocuSign") electronic signing system. The terms for providing such documents for execution and various other documents and records to you electronically through DocuSign are set forth below. Please read the information below carefully and if you can satisfactorily access this information electronically and agree to these terms, please confirm your agreement by clicking the "I agree" button at the bottom of this document.

Getting paper copies

At any time, you may request from us a paper copy of any document for execution or other document or record provided or made available electronically to you by us. You will be able to download and print documents we send to you through the DocuSign system during and immediately after each signing session and, if you elect to create a DocuSign signer account, you may access them for a limited period of time thereafter. To request paper copies of documents previously provided by us to you electronically, send an e-mail to esignature@CrownCastle.com, requesting the subject paper copies and stating your e-mail address, name, US Postal address and telephone number.

Withdrawing your consent to receive and/or execute documents electronically

If you elect to receive documents for execution and various other documents and records from us electronically, you may at any time change your mind and tell us that thereafter you want to receive such documents only in paper format. To withdraw your consent to electronic delivery and execution of documents, use the DocuSign 'Withdraw Consent' form on the signing page of a DocuSign envelope, instead of signing it. Thereafter, you will no longer be able to use the DocuSign system to electronically receive and execute documents or other records from us. You may also send an e-mail to esignature@CrownCastle.com stating that you are withdrawing your consent to electronic delivery and execution of documents through the DocuSign system and stating your e-mail address, name, US Postal Address, and telephone number.

Consequences of withdrawing consent to receive and/or execute documents electronically

If you elect to receive documents for execution and various other documents and other records only in paper format, it will slow the speed at which we can complete the subject transactions because of the increased delivery time.

Documents for execution, and other documents and records may be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we may provide documents for execution, and other documents and records electronically to you through the DocuSign system during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any document for execution or other document or record, we prefer to provide all documents for execution, and other documents and records by the same method and to the same address that you have given us. If you do not agree with this process, please let us know as described below.

How to contact Crown Castle

You may contact us to let us know of any changes related to contacting you electronically, to request paper copies of documents for execution and other documents and records from us, and to withdraw your prior consent to receive documents for execution and other documents and records electronically as follows:

To contact us by phone call: 724-416-2000

To contact us by email, send messages to: esignature@CrownCastle.com

To contact us by paper mail, send correspondence to

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317

To advise Crown Castle and DocuSign of your new e-mail address

To let us know of a change to the e-mail address where we should send documents for execution and other documents and records to you, you must send an email message to esignature@CrownCastle.com and state your previous e-mail address and your new e-mail address.

In addition, you must notify DocuSign, Inc. to arrange for your new email address to be reflected in your DocuSign account by following the process for changing e-mail in the DocuSign system.

Required hardware and software

Browsers:	Internet Explorer® 11 (Windows only); Windows Edge Current Version; Mozilla Firefox Current Version; Safari™ (Mac OS only) 6.2 or above; Google Chrome Current Version; Note : Pre-release (e.g., beta) versions of operating systems and browsers are not supported.
Mobile Signing:	Apple iOS 7.0 or above; Android 4.0 or above
PDF Reader:	Acrobat® Reader or similar software may be required to view and print PDF files
Screen Resolution:	1024 x 768

Certificate Of Completion

Envelope Id: 66674A1A5703481FB5213A071B837734

Status: Completed

Subject: Please DocuSign: SD0300_816130_UNIVERSITY AVE._AT&T Miscellaneous FCD_REV 0_9.8.2020 (FULLSIZE).pdf

Source Envelope:

Document Pages: 4

Signatures: 4

Envelope Originator:

Certificate Pages: 3

Initials: 0

Phillip Lander

AutoNav: Enabled

2000 Corporate Drive

Envelope Stamping: Enabled

Canonsburg, PA 15317

Time Zone: (UTC-05:00) Eastern Time (US & Canada)

Phil.Lander@crowncastle.com

IP Address: 162.254.108.200

Record Tracking

Status: Original

Holder: Phillip Lander

Location: DocuSign

9/8/2020 3:20:30 PM

Phil.Lander@crowncastle.com

Signer Events

Signature

Timestamp

Maribel Dentinger

Maribel.Dentinger@crowncastle.com

Crown Castle International Corp.

Security Level: Email, Account Authentication (None)

DocuSigned by:

Maribel Dentinger
014341534088482...

Signature Adoption: Drawn on Device

Using IP Address: 162.254.108.200

Sent: 9/8/2020 3:21:17 PM

Viewed: 9/8/2020 3:49:18 PM

Signed: 9/8/2020 3:49:48 PM

Electronic Record and Signature Disclosure:

Accepted: 9/20/2018 8:56:27 AM

ID: 50d48a2f-ee52-4b02-9a1f-3c3a14f58c3b

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	9/8/2020 3:21:17 PM
Certified Delivered	Security Checked	9/8/2020 3:49:18 PM
Signing Complete	Security Checked	9/8/2020 3:49:48 PM
Completed	Security Checked	9/8/2020 3:49:48 PM
Payment Events	Status	Timestamps
Electronic Record and Signature Disclosure		