



New Project Information

The City of Rocklin has begun processing the below referenced application(s) for project approval. The request is now being reviewed for compliance with the requirements and regulations of relevant City, State, and Federal agencies, and Utility providers. Once any issues have been resolved notice will be provided to alert neighbors and interested parties of the availability of project information, the opportunity to comment on a project, and of any pending review or action.

Application Received: January 8, 2020

Project Name and Requested Approvals:

AT&T AT STANFORD PLAZA
DESIGN REVIEW, DR2020-0001 / U2020-0001

Staff Description of Project:

This application is a request for approval of a New Design Review and Conditional Use Permit to allow the co-location and installation of twelve antennae and associated equipment to include screening of the antennae on an existing commercial building.

Location:

The subject site is located at 6160 Stanford Ranch Road. APN#: 358-100-004.

Existing Land Use Designations:

The property is zoned Planned Development/Commercial (PD-C).
The General Plan designation is Retail Commercial (RC).

This project does / XX **does not** require modification or change of the land use designations and regulations currently applicable to the project site.

Compliance with the California Environmental Quality Act:

A preliminary review of this project pursuant to the California Environmental Quality Act (CEQA) Section 15303 New Construction or Conversion of Small Structures and Section 15332 Infill Development Projects has tentatively identified a Categorical Exemption as the appropriate level of environmental review for this project.

Applicant & Property Owner:

The applicant is Epic Wireless Group, LLC on behalf of AT&T. The property owner is Liberty Capital Partners, LLC.

Attached Information:

For additional detail please see the attached information from the project application form and the submitted application exhibits.

P:\PUBLIC PLANNING FILES\Request for Comment\2020\AT&T at Stanford Plaza\2-Project Information 2.docx



City of Rocklin

Planning Division
3970 Rocklin Road
Rocklin, California 95677
Phone (916) 625-5160 FAX (916) 625-5195

UNIVERSAL APPLICATION FORM

RECEIVED
JAN 08 2019
BY: _____

NAME OF PROJECT: CVU0087/STANFORD RANCH

LOCATION: 6160 STANFORD RANCH ROAD, ROCKLIN, CA 95765

ASSESSOR'S PARCEL NUMBERS: 358-100-004-00

DATE OF APPLICATION (STAFF): 1/8/2020 RECEIVED BY (STAFF INITIALS): GH

FILE NUMBERS (STAFF): U2020-0001 FEES: \$17,807

RECEIPT No.: R358099

Pre-Application Meeting Requirements:

It is required that a pre-application meeting be held with a Staff Planner prior to submitting most applications for planning entitlements and permits. The purpose of the pre-application meeting is to expedite application processing by enabling staff to work with the applicant to assure that the officially submitted application materials are in the proper format and that the applicant understands the City of Rocklin's goals, policies, and ordinances that may affect the project. A copy of these and other planning provisions is available at the applicant's request.

Generally, two sets of preliminary plans and a written description of the proposed project should be brought with the applicant to the pre-application meeting. To schedule this meeting, please contact a Staff Planner at the Rocklin Community Development Department by calling (916) 625-5160.

DATE OF PRE-APPLICATION MEETING: June 23rd
See attached email

THIS APPLICATION IS FOR THE FOLLOWING ENTITLEMENTS: (CHECK APPROPRIATE SQUARES)

- | | | |
|---|---|---|
| <input type="checkbox"/> General Plan Amendment (GPA)
Fee: \$11,434 (< 100 Acres)
\$ 2,565 (each add'l 100 Acres) | <input type="checkbox"/> Tentative Subdivision Map (SD)
Fee: \$17,715 (1 st 50 lots)
\$2,188 (each add'l 50 lots)
\$10,337 Modification | <input checked="" type="checkbox"/> Use Permit (U)
<input type="checkbox"/> Minor (PC Approval - New Bldg) Fee: \$9,888
<input type="checkbox"/> Minor (PC Approval - Existing Bldg) Fee: \$7,496
<input type="checkbox"/> Major (CC Approval) Fee: \$13,252 |
| <input type="checkbox"/> Rezone (Reclassification) (Z)
Fee: \$9,846 < 20 acres
\$10,850 > 20 acres | <input type="checkbox"/> Tentative Parcel Map (DL)
Fee: \$9,888 | <input type="checkbox"/> Variance (V)
Fee: \$5,036 |
| <input type="checkbox"/> General Development Plan (PDG)
Fee: \$13,475 | <input checked="" type="checkbox"/> Design Review (DR) <u>\$15,184</u>
Commercial Fee: \$9,888
Residential Fee: \$6,097
Signs Fee: \$4,233 | <input type="checkbox"/> Oak Tree Preservation Plan Permit
Planning Commission Fee: \$ 915
City Council Fee: \$1,232 |
| <input checked="" type="checkbox"/> Concurrent Application (2 or more entitlements)
Fee: \$15,845
\$2,142 (each add'l 50 lots or 100 acres) | | <input type="checkbox"/> Modification to Approved Projects
Fee: \$3,481 |
- File Number _____

Environmental Requirements: (STAFF)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Exempt - \$1,277.00 <u>\$520</u> | <input type="checkbox"/> Mitigated Negative Declaration - \$6,311.00 |
| <input type="checkbox"/> Negative Declaration - \$5,166.00 | <input type="checkbox"/> EIR - See Fee Schedule |

UNIVERSAL APPLICATION FORM (CONT.)

GENERAL PLAN DESIGNATION:	PROPERTY DATA:	UTILITIES:	
		EXISTING	PROPOSED
Existing: <u>EC</u>	Acres: _____	<input type="checkbox"/> Pub. Sewer	<input type="checkbox"/> Pub. Sewer
Proposed: <u>n/a</u>	Square Feet: _____	<input type="checkbox"/> Septic Sewer	<input type="checkbox"/> Septic Sewer
Zoning:	Dimensions: _____	<input type="checkbox"/> Pub. Water	<input type="checkbox"/> Pub. Water
Existing: <u>PD-C</u>	No. of	<input type="checkbox"/> Well Water	<input type="checkbox"/> Well Water
Proposed: <u>n/a</u>	Units: _____	<input type="checkbox"/> Electricity	<input type="checkbox"/> Electricity
	Building	<input type="checkbox"/> Gas	<input type="checkbox"/> Gas
	Size: _____	<input type="checkbox"/> Cable	<input type="checkbox"/> Cable
	Proposed		
	Parking: _____		
	Required		
	Parking: _____		
	Access: _____		

PROJECT REQUEST: Install New AT&T Power/Telco/Fiber to site location; Install New AT&T FRP Screening per sector; Install (12) new AT&T 6'6" Panel Antennas; Install (4) New AT&T RRUS 12 B25; Install (4) New AT&T RRUS B14 4478; Install (4) New AT&T RRUS 4449 B5/B12; Install (4) New AT&T RRUS 8843 B2/B12; Install (4) New AT&T DC-Surge Suppressors "squids"; Install (1) New AT&T GPS Unit Mounted New Battery Cabinet; Install (1) New AT&T Battery Cabinet; Install (1) New AT&T 512 Power Cabinet; Install (1) New AT&T Purcell Cabinet; Install (1) New AT&T H-Frame; Install (1) New AT&T Ceina Box Mounted to new H-Frame; Install (1) New AT&T Hoffman Box Mounted to new H-Frame; Install (1) New AT&T 200A Power Meter; Install (4) New AT&T Fiber Trunks; Install (4) New AT&T DC Power Trunks

(Example: Request for approval of design review to construct a 10,000 square foot office building on 1.5 acres)

NOTE: Annexations, Lot Line Adjustments, and Rocklin Ranch Industrial Park Specific Plan Use Permits require special application forms and additional submittal information available from the Planning Division.

UNIVERSAL APPLICATION FORM (CONT.)

PLEASE PRINT OR TYPE:

NAME OF PROPERTY OWNER: Liberty Capital Partners LLC

ADDRESS: PO BOX 2332

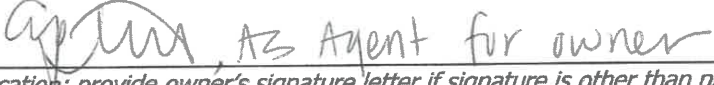
CITY: Granite Bay STATE: CA ZIP: 95746

PHONE NUMBER: 916-797-0207

EMAIL ADDRESS: Property Manager: Erika Baldwin; Erika@libertyholding.com

FAX NUMBER: _____

SIGNATURE OF OWNER

 AS Agent for owner
(Signature Authorizing Application; provide owner's signature letter if signature is other than property owner.)

NAME OF APPLICANT

(If different than owner): EPIC Wireless Group, LLC on behalf of AT&T Mobility

CONTACT: Ashley Smith

ADDRESS 605 Coolidge Drive; Suite 100

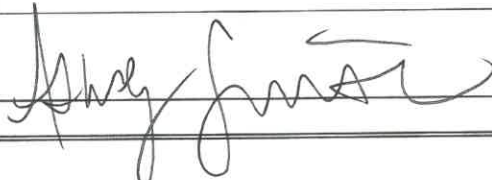
CITY: Folsom STATE: CA ZIP: 95630

PHONE NUMBER: 916-936-5430

EMAIL ADDRESS: ASHLEY.SMITH@epicwireless.net

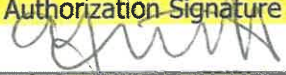
FAX NUMBER: 916-781-5927

SIGNATURE OF APPLICANT



AGENT AUTHORIZATION FORM

Property owners desiring to authorize individuals to represent them in conjunction with any application or matter before the City shall provide written authorization using this form. A separate form shall be used for each individual or firm authorized, and shall specifically note any restrictions upon the authorized person.

Project Name: CVU0087/Stanford Ranch
Location: 6160 Stanford Ranch Road, Rocklin, CA 95765
Assessors Parcel Number(s): 358-100-004-00
Entitlements for which authorization is applicable (use permit, variance, tentative map, etc.): Use Permit
Name of person and / or firm authorized to represent property owner (Please print): EPIC Wireless Group, LLC c/o Ashley Smith
Address (Including City, State, and Zip Code): 605 Coolidge Drive, Suite 100 Folsom, CA 95630
Phone Number: 916-936-5430
Fax Number: 916-781-5927
Email Address: ashley.smith@epicwireless.net
The above named person or firm is authorized as: Agent (<input checked="" type="checkbox"/>) Buyer (<input type="checkbox"/>) Lessee (<input type="checkbox"/>)
The above named person or firm is authorized to (check all that are applicable): (<input checked="" type="checkbox"/>) File any and all papers in conjunction with the aforementioned request, including signing the application (<input type="checkbox"/>) Speak on behalf of and represent the owner at any Staff meeting and/or public hearing. (<input type="checkbox"/>) Sign any and all papers in my stead, with the exception of the application form.
The duration and validity of this authorization shall be: (<input checked="" type="checkbox"/>) Unrestricted (<input type="checkbox"/>) Valid until:
Owners Authorization Signature & Date:  12/13/19
Owners Name (Please Print): ERIKA BALDWIN, AS Agent for owner
Owners Address (Including City, State, and Zip Code): PO BOX 2332 Granite Bay, CA 95746
Phone Number: 916-797-0207 x 3
Email Address: erika@libertyholding.com

see letter of
authorization



on behalf of



Letter of Authorization

Permission for Filing of Zoning/Building Permit Applications

To: City of Rocklin Planning Department

Re: AT&T # CVU0087/Stanford Ranch

I/We, the owner(s) of the above described real property, authorize **Epic Wireless Group LLC** to act as an agent on my/our behalf for the purpose of performing all and every act that is required, necessary or appropriate to prepare, sign, submit, file and present on my/our behalf building, permitting, zoning and/or land use applications to obtain land use changes, special exceptions, zoning variances, zoning permits, conditional use permits, special use permits, administrative permits, construction permits, operation permits, building permits, and other approvals or permits related to AT&T modifications at the above described real property.

The undersigned hereby certifies to being the fee owner(s) of the real property described above and that to the best of my/our knowledge the information contained within this authorization is true and correct.



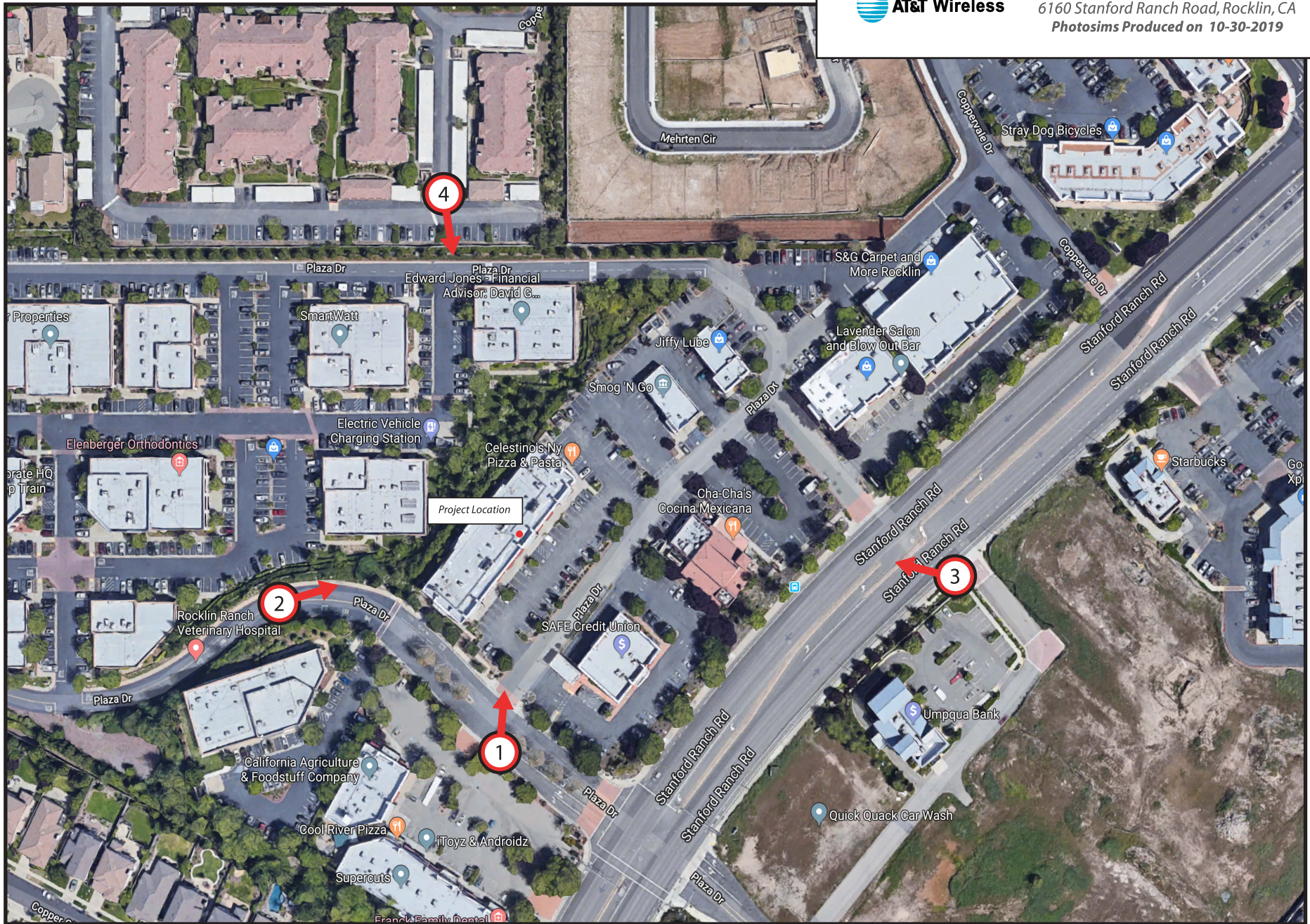
(Signature)

Arika Baldwin, AS Agent

(Print Name) For owner

12/13/19

(Date)



1. View from Plaza Drive looking North at site

Existing



Proposed



view from Plaza Drive looking north at site

2. View from Plaza Drive looking east at site

Existing



Proposed



view from Plaza Drive looking east at site



CVL00087 Stanford Ranch
6160 Stanford Ranch Road, Rocklin, CA
Photosims Produced on 12-2-2019

3. View from Stanford Ranch looking west at site

Existing



Proposed



view from Stanford Ranch Road looking west at site



AT&T Wireless

CVL00087 Stanford Ranch
6160 Stanford Ranch Road, Rocklin, CA
Photosims Produced on 12-2-2019

4. View from Coppervale Circle looking south at site

Existing



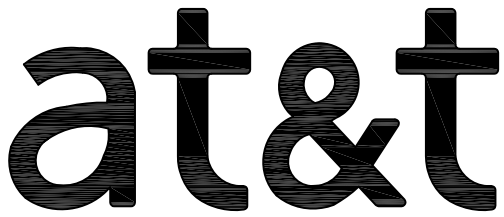
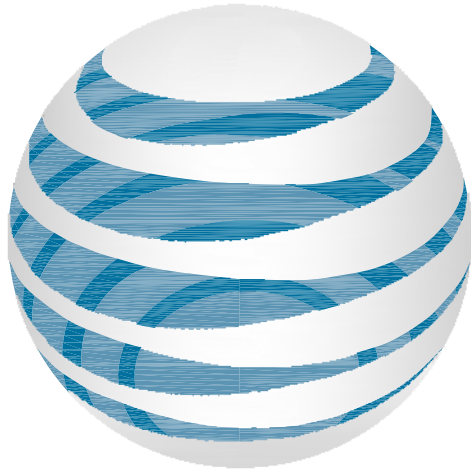
Proposed



view from Coppervale Circle looking south at site



CVL00087 Stanford Ranch
6160 Stanford Ranch Road, Rocklin, CA
Photosims Produced on 12-2-2019



SITE NUMBER: CVU0087

SITE NAME: STANFORD RANCH

JURISDICTION: CITY OF ROCKLIN

6160 STANFORD RANCH ROAD
ROCKLIN, CALIFORNIA 95765

APN: 358-100-004-00

SITE TYPE: ROOF TOP

ISSUED FOR:

STANFORD RANCH

6160 STANFORD RANCH ROAD
ROCKLIN, CALIFORNIA 95765



AT&T SITE NO:	CVU0087
PROJECT NO:	10151642
DRAWN BY:	AF
CHECKED BY:	MF

C	02/06/2020	100% ZD'S	SD
B	12/06/2019	90% ZD'S REVISED	SD
A	09/23/2019	90% ZD'S FOR REVIEW	AF
REV	DATE	DESCRIPTION	BY

LICENSOR:

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 TITLE

TITLE SHEET

SHEET NUMBER

T-1

PROJECT DESCRIPTION	PROJECT INFORMATION	PROJECT TEAM	SHEET INDEX	REV
<p>AT&T WIRELESS PROPOSES TO CONSTRUCT AN UNMANNED TELECOMMUNICATIONS FACILITY. THE SCOPE WILL CONSIST OF THE FOLLOWING:</p> <ul style="list-style-type: none">• INSTALL NEW AT&T POWER / TELCO / FIBER TO SITE LOCATION• INSTALL NEW AT&T FRP SCREENING PER SECTOR• INSTALL (12) NEW AT&T 6'-6" PANEL ANTENNAS• INSTALL (4) NEW AT&T RRUS 12 B25 @ ANTENNA LEVEL• INSTALL (4) NEW AT&T RRUS B14 4478 @ ANTENNA LEVEL• INSTALL (4) NEW AT&T RRUS 4449 B5/B12 @ ANTENNA LEVEL• INSTALL (4) NEW AT&T RRUS 8843 B2/B66A @ ANTENNA LEVEL• INSTALL (4) NEW AT&T RRUS 4415 B30 @ ANTENNA LEVEL• INSTALL (4) NEW AT&T RRUS 4415 B25 @ ANTENNA LEVEL• INSTALL (4) NEW AT&T RRUS E2-B29 @ ANTENNA LEVEL• INSTALL (4) NEW AT&T DC-SURGE SUPPRESSORS "SQUIDS" @ ANTENNA LEVEL• INSTALL (1) NEW AT&T GPS UNIT MOUNTED NEW BATTERY CABINET• INSTALL (1) NEW AT&T WUC CABINET @ ROOF LEVEL• INSTALL (1) NEW AT&T H-FRAME @ ROOF LEVEL FOR DC12 SURGE SUPPRESSORS• INSTALL (1) NEW AT&T CIENA BOX MOUNTED TO NEW H-FRAME• INSTALL (1) NEW AT&T HOFFMAN BOX MOUNTED TO NEW H-FRAME• INSTALL (1) NEW AT&T 200A POWER METER IN ELECTRICAL ROOM ON GROUND LEVEL• INSTALL (4) NEW AT&T FIBER TRUNKS• INSTALL (12) NEW AT&T DC POWER TRUNKS, (3) PER DC9 SQUID	<p>SITE NAME: STANFORD RANCH</p> <p>SITE NUMBER: CVU0087</p> <p>SEARCH RING: STANFORD RANCH</p> <p>FA# 10151642</p> <p>SITE ADDRESS: 6160 STANFORD RANCH ROAD ROCKLIN, CALIFORNIA 95765</p> <p>ASSESSOR'S PARCEL NO.: 358-100-004-00</p> <p>NEW USE: UNMANNED OUTDOOR TELECOMMUNICATIONS FACILITY</p> <p>ZONING JURISDICTION: CITY OF ROCKLIN</p> <p>LATITUDE: 38° 47' 33.1656" N (38.792546)</p> <p>LONGITUDE: 121°16'2.5932" W (-121.267387)</p> <p>GROUND ELEVATION: 271.72'</p> <p>ZONING CLASSIFICATION: PLANNED DEVELOPMENT COMMERCIAL (PD-C)</p> <p>TYPE OF CONSTRUCTION: V-B</p> <p>OCCUPANCY GROUP: U</p> <p>RFDS DATES: 07/26/2019 ISSUE: 1.0 REVISION: 1.00.00</p>	<p>PROPERTY OWNER: LIBERTY CAPITAL PARTNERS LLC 6160 STANFORD RANCH ROAD ROCKLIN, CALIFORNIA 95765</p> <p>PROPERTY MANAGER: ERIKA BALDWIN PHONE: (916) 797-0207</p> <p>POWER AGENCY: PG&E CORPORATION 1 MARKET STREET, SPEAR TOWER SAN FRANCISCO, CA 94105-1126 PHONE: (800) 743-5000</p> <p>TELEPHONE AGENCY: AT&T CALIFORNIA 525 MARKET STREET SAN FRANCISCO, CA 94105 PHONE: (800) 310-2355</p> <p>APPLICANT / LESSEE: AT&T MOBILITY 5001 EXECUTIVE PARKWAY SAN RAMON, CALIFORNIA 94583 CONTACT: BRADLEY HEAD EMAIL: bh97a@att.com PHONE: (925) 963-7370</p> <p>M SQUARED WIRELESS: 1387 CALLE AVANZADO SAN CLEMENTE, CA 92673 CONTACT: MICHAEL MONTELLO PHONE: (949) 391-8824 www.msquaredwireless.com</p> <p>STRUCTURAL ENGINEER: VECTOR STRUCTURAL ENGINEERS, LLC. 651 W. GALENA PARK BLVD, SUITE 101 DRAPEL, UT 84020 CONTACT: RUSSELL N. EMERY, P.E. PHONE: (801) 990-1775</p> <p>SITE ACQUISITION: EPIC WIRELESS ASHLEY SMITH ashley.smith@epicwireless.net PHONE: 916-936-5430</p> <p>CONSTRUCTION MANAGER: EPIC WIRELESS ANDREW MEDINA PHONE: 530-574-4773</p> <p>RF ENGINEER: AT&T MOBILITY 5001 EXECUTIVE PARKWAY SAN RAMON, CALIFORNIA 94583 CONTACT: ASAD SHAHBAZ ms455v@att.com</p> <p>CIVIL VENDOR: VINCULUMS SERVICES C/O FLOYD GREEN fgreen@vinculums.com PHONE: (480) 528-1927</p>	<p>T-1 TITLE SHEET</p> <p>GN-1 GENERAL NOTES</p> <p>GN-2 GENERAL NOTES</p> <p>C-1 TOPOGRAPHIC SURVEY (FOR REFERENCE ONLY)</p> <p>A-0 SITE PLAN</p> <p>A-1 ENLARGED ROOF PLAN</p> <p>A-2 EQUIPMENT PLAN</p> <p>A-3 ANTENNA PLAN AND SCHEDULE</p> <p>A-4 ELEVATIONS</p> <p>A-5 ELEVATIONS</p> <p>D-1 DETAILS</p> <p>D-2 DETAILS</p> <p>D-3 DETAILS</p>	<p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p>
CODE COMPLIANCE	VICINITY MAP	DIRECTIONS	SPECIAL INSPECTIONS	DO NOT SCALE DRAWINGS
<p>ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.</p> <ul style="list-style-type: none">• CALIFORNIA ADMINISTRATIVE CODE (INCL TITLE 24 & 25)• 2019 CALIFORNIA BUILDING CODE (CBC)• CITY/COUNTY ORDINANCES• BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)• 2019 CALIFORNIA FIRE CODE (CFC)• 2019 CALIFORNIA BUILDING CODE (2015 IBC)• 2019 CALIFORNIA RESIDENTIAL CODE (CRC)• 2019 CALIFORNIA ELECTRICAL CODE• 2019 CALIFORNIA MECHANICAL CODE (CMC)• 2019 CALIFORNIA PLUMBING CODE (CPC)• 2019 CALIFORNIA ENERGY CODE• 2019 CALIFORNIA GREEN BUILDING CODE		<p>DIRECTIONS FROM AT&T OFFICE AT 5001 EXECUTIVE PARKWAY, SAN RAMON, CA:</p> <ol style="list-style-type: none">1. HEAD SOUTHWEST2. TURN RIGHT3. TURN LEFT TOWARD EXECUTIVE PKWY4. TURN RIGHT TOWARD EXECUTIVE PKWY5. TURN RIGHT ONTO EXECUTIVE PKWY6. TURN LEFT ONTO CAMINO RAMON7. USE THE LEFT 2 LANES TO TURN LEFT ONTO CROW CANYON RD8. USE THE RIGHT 2 LANES TO MERGE ONTO I-680 N VIA THE RAMP TO SACRAMENTO9. MERGE ONTO I-680 N10. KEEP LEFT AT THE FORK TO STAY ON I-680 N11. KEEP LEFT AT THE FORK TO CONTINUE ON I-68012. USE THE RIGHT 2 LANES TO TAKE EXIT 1A TOWARD I-80 E/SACRAMENTO13. MERGE ONTO I-80 E14. USE THE RIGHT 2 LANES TO TAKE EXIT 1A FOR I-80 TOWARD RENO15. CONTINUE ONTO I-80 E16. KEEP LEFT AT THE FORK TO STAY ON I-80 E17. USE THE RIGHT 2 LANES TO TAKE EXIT 106 FOR CA-65 TOWARD LINCOLN/MARYSVILLE18. CONTINUE ONTO CA-65 N19. TAKE EXIT 307 FOR STANFORD RANCH RD20. KEEP RIGHT AT THE FORK. FOLLOW SIGNS FOR STANFORD RANCH RD AND MERGE ONTO STANFORD RANCH RD21. MERGE ONTO STANFORD RANCH RD22. TURN LEFT ONTO PLAZA DR23. TURN RIGHT TO STAY ON PLAZA DR24. TURN LEFT. DESTINATION WILL BE ON THE LEFT.	<p>THESE DRAWINGS ARE SCALED TO FULL SIZE AT 22"x34" AND HALF SIZE AT 11"x17". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.</p>	<p>Call Toll Free 1-800-422-4133 2 Working Days Before You Dig UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA</p>
<p>THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES OR MODIFICATIONS.</p> <p>AT&T RF ENGINEER: _____ DATE: _____</p> <p>AT&T OPERATIONS: _____ DATE: _____</p> <p>SITE ACQUISITION: _____ DATE: _____</p> <p>CONSTRUCTION MANAGER: _____ DATE: _____</p> <p>PROPERTY OWNER: _____ DATE: _____</p> <p>ZONING: _____ DATE: _____</p> <p>PROJECT MANAGER: _____ DATE: _____</p>				

GENERAL CONSTRUCTION NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR – GENERAL CONTRACTOR
SUBCONTRACTOR – CONTRACTOR (CONSTRUCTION)
OWNER – AT&T
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
- GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE NEW WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAT&T, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOWN DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS. THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE SPACE FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
- WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEViate FROM THE DRAWINGS PRIOR TO THE BEGINNING CONSTRUCTION.
- SUBCONTRACTORS SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS AT THE PREMISES AT ALL TIMES.
- THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A-10-B-C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, D) TRENCHING & EXCAVATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ARCHITECT/ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- THE NEW FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
- NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE NEW .
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- NO WHITE STROBIC LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
- ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- NO NOISE, SMOKE, DUST, OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DISREGARD THIS NOTE IF THIS SITE HAS A GENERATOR)
- NO ADDITIONAL PARKING TO BE NEW . EXISTING ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
- NO LANDSCAPING IS NEW AT THIS SITE, UNLESS NOTED OTHERWISE.

ELECTRICAL NOTES:

- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
C – NATIONAL FIRE CODES
A. UL – UNDERWRITERS LABORATORIES
B. NEC – NATIONAL ELECTRICAL CODE
C. NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D. OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT
E. SBC – STANDARD BUILDING CODE
- DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
- EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
- THE TERM "PROVIDE" USED IN SUBSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
- CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC... ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY AT&T.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
- ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS 'EXCAVATION, AND BACKFILLING.
- MATERIALS, EQUIPMENT AND SUPPLIES: INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IECE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- DISCONNECT SWITCHES SHALL BE I.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED – NO SUBSTITUTIONS.
- RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 – 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS – 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH "BRITE ZINC" OR "GOLD GALV".
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, 800 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- SERVICE: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.
- TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
- CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM".
- ALL BOLTS SHALL BE STAINLESS STEEL

GROUNDING NOTES:

- COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "I") WITH 1" HIGH LETTERS.
- ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE.
- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
- WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER,THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
- ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

FOUNDATION, EXCAVATION & BACKFILL NOTES:

- ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL.
- ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
- CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL. IF INADEQUATE BEARING CAPACITY IS REACHED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
- ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS. ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.
- ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM 6"THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557.
- NEW LY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HRS PRIOR TO BACK FILLING.
- FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PADS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE ELEVATIONS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
- NEW LY GRADED SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE: TYPAR-3401 AS MANUFACTURED BY "CONSTRUCTION MATERIAL 1-800-239-3841" OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECCURENCE OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERIMETER WHICH EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED. I.E. FDOT TYPE No. 57 FOR FENCED COMPOUND; FDOT TYPE No. 67 FOR ACCESS DRIVE AREA.
- IN ALL AREAS TO RECEIVE FILL, REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE. PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BIND WITH EXISTING/PREPARED SOIL SURFACE.
- WHEN SUB GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR AERATE THE SOILS AND RECOMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.
- IN AREAS WHICH EXISTING GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.
- EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED WITH THE CONDITION THAT ANY UNFAVORABLE AMOUNTS OF ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ANY ADDITIONAL GRAVEL RESURFACING MATERIAL AS NEEDED TO PROVIDE A FULL DEPTH COMPACTED SURFACE THROUGHOUT SITE.
- GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUB GRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUB GRADE.
- PROTECT EXISTING GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING 'MATS' OR OTHER SUITABLE PROTECTION DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY. REPAIR ANY DAMAGE TO EXISTING GRAVEL SURFACING OR SUB GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTORS OPERATIONS.
- DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/ OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
- ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.

ISSUED FOR:

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CVU0087

PROJECT NO:

10151642

DRAWN BY:

AF

CHECKED BY:

MF

C	02/06/2020	100% ZD'S	SD
B	12/06/2019	90% ZD'S REVISED	SD
A	09/23/2019	90% ZD'S FOR REVIEW	AF
REV	DATE	DESCRIPTION	BY

LICENSOR:

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 TITLE

GENERAL NOTES

SHEET NUMBER

GN-1

SITE WORK & DRAINAGE

PART 1 – GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE NEW WORK SHOWN IN THESE PLANS.

- 1.1 REFERENCES:
A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION–CURRENT EDITION).
B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).
- 1.2 INSPECTION AND TESTING:
A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR.
B. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.
- 1.3 SITE MAINTENANCE AND PROTECTION:
A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
B. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
C. KEEP SITE FREE OF ALL PONDING WATER.
D. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.
E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
F. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- PROVIDE A MINIMUM 48–HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

PART 2 – PRODUCTS

- 2.1 SUITABLE BACKFILL: ASTM D2321 (CLASS I, II, III OR IVA) FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.2 NON–POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS III, IVA OR IVB) COARSE AGGREGATE, FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.3 POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS IA, IB OR II) COARSE AGGREGATE FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.4 SELECT STRUCTURAL FILL: GRANULAR FILL MATERIAL MEETING THE REQUIREMENTS OF ASTM E850–95. FOR USE AROUND AND UNDER STRUCTURES WHERE STRUCTURAL FILL MATERIAL ARE REQUIRED.
- 2.5 GRANULAR BEDDING AND TRENCH BACKFILL: WELL–GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW–SM).
- 2.6 COARSE AGGREGATE FOR ACCESS ROAD SUBBASE COURSE SHALL CONFORM TO ASTM D2940.
- 2.7 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.
- 2.8 GEOTEXTILE FABRIC: MIRAFI 500X OR APPROVED EQUAL.
- 2.9 PLASTIC MARKING TAPE: SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES, 6 INCHES WIDE WITH A MINIMUM THICKNESS OF 0.004 INCH. TAPE SHALL HAVE MINIMUM STRENGTH OF 1500 PSI IN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL CONDUCTORS, FOIL BACKING OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3 FEET DEEP. THE METALLIC CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR PROVIDED WITH OTHER MEANS TO PROTECT IT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION UTILITIES.

PART 2 – EXECUTION

- 3.1 GENERAL:

A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ANY TIME.
B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
1. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
2. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.
3. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.
- D. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- E. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE NEW CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- F. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF–SITE IN A LEGAL MANNER.
- 3.2 BACKFILL:
A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST–IN–PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
1. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
2. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8–INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
3. WHENEVER THE DENSITY TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- B. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

- 3.3 TRENCH EXCAVATION:

A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR, PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- B. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, BACKFILL AT THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.
- 3.5 AGGREGATE ACCESS ROAD:
A. CLEAR, GRUB, STRIP AND EXCAVATE FOR THE ACCESS ROAD TO THE LINES AND GRADES INDICATED ON THE DRAWINGS. SCARIFY TO A DEPTH OF 6 INCHES AND PROOF–ROLL. ALL HOLES, RUTS, SOFT PLACES AND OTHER DEFECTS SHALL BE CORRECTED.
B. THE ENTIRE SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 1557.
C. AFTER PREPARATION OF THE SUBGRADE IS COMPLETE, THE GEOTEXTILE FABRIC (MIRAFI 500X) SHALL BE INSTALLED TO THE LIMITS INDICATED ON THE DRAWINGS BY ROLLING THE FABRIC OUT LONGITUDINALLY ALONG THE ROADWAY. THE FABRIC SHALL NOT BE DRAGGED ACROSS THE SUBGRADE. PLACE THE ENTIRE ROLL IN A SINGLE OPERATION, ROLLING OUT AS SMOOTHLY AS POSSIBLE.
1. OVERLAPS PARALLEL TO THE ROADWAY WILL BE PERMITTED AT THE CENTERLINE AND AT LOCATIONS BEYOND THE ROADWAY SURFACE WIDTH (I.E. WITHIN THE SHOULDER WIDTH) ONLY. NO LONGITUDINAL OVERLAPS SHALL BE LOCATED BETWEEN THE CENTERLINE AND THE SHOULDER. PARALLEL OVERLAPS SHALL BE A MINIMUM OF 3 FEET WIDE.
2. TRANSVERSE (PERPENDICULAR TO THE ROADWAY) OVERLAPS AT THE END OF A ROLL SHALL OVERLAP IN THE DIRECTION OF THE AGGREGATE PLACEMENT (PREVIOUS ROLL ON TOP) AND SHALL HAVE A MINIMUM LENGTH OF 3 FEET.
3. ALL OVERLAPS SHALL BE PINNED WITH STAPLES OR NAILS A MINIMUM OF 10 INCHES LONG TO INSURE POSITIONING DURING PLACEMENT OF AGGREGATE. PIN LONGITUDINAL SEAMS AT 25 FOOT CENTERS AND TRANSVERSE SEAMS EVERY 5 FEET.
- D. THE AGGREGATE BASE AND SURFACE COURSES SHALL BE CONSTRUCTED IN LAYERS NOT MORE THAN 4 INCH (COMPACTED) THICKNESS. AGGREGATE TO BE PLACED ON GEOTEXTILE FABRIC SHALL BE END–DUMPED ON THE FABRIC FROM THE FREE END OF THE FABRIC OR OVER PREVIOUSLY PLACED AGGREGATE. THE FIRST LIFT SHALL BE BLADED DOWN TO A THICKNESS OF 8 INCHES PRIOR TO COMPACTION. AT NO TIME SHALL EQUIPMENT, EITHER TRANSPORTING THE AGGREGATE OR GRADING THE AGGREGATE, BE PERMITTED ON THE ROADWAY WITH LESS THAN 4 INCHES OF MATERIAL COVERING THE FABRIC.
- E. THE AGGREGATE SHALL BE IMMEDIATELY COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE PROCTOR TEST, ASTM D 1557 WITH A TAMPING ROLLER, OR WITH A PNEUMATIC–TIERED ROLLER, OR WITH A VIBRATORY MACHINE OR ANY COMBINATION OF THE ABOVE. THE TOP LAYER SHALL BE GIVEN A FINAL ROLLING WITH A THREE–WHEEL OR TANDEM ROLLER.

- 3.6 FINISH GRADING:
A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
C. ACHIEVE FINISHED GRADE BY PLACING A MINIMUM OF 4 INCHES OF 1/2" – 3/4" CRUSHED STONE ON TOP SOIL STABILIZER FABRIC.
D. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

- 3.7 ASPHALT PAVING ROAD:
A. DIVISION 600 – KDOT FLEXIBLE PAVEMENT. (UPDATE PER LOCAL DOT)
B. SECTION 403 – MODDOT ASPHALT CONCRETE PAVEMENT.

ENVIRONMENTAL NOTES

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
2. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
6. CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
7. SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
8. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
9. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES

CONCRETE NOTES

1. MIX DESIGN REQUIREMENTS: (UNLESS NOTED OTHERWISE)
A. CEMENT SHALL CONFORM TO ASTM C–150, TYPE II
B. COMPRESSIVE STRENGTH = 4,000 PSI
C. CONCRETE SLUMP SHALL BE 3"+/–1" FOR SLABS AND 4"+/–1" FOR ALL OTHER WORK
D. WATER CEMENT RATIO = 0.46 MAX
2. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C–33 (1" MAXIMUM SIZE), AND ASTM C–330 FOR STRUCTURAL LIGHT WEIGHT CONCRETE.
3. WHERE CONCRETE WILL BE IN CONTACT WITH NATIVE OR IMPORTED SOIL WHICH HAS A VERY SEVERE SULFATE CONTENT, POZZOLAN SHALL BE ADDED AS REQUIRED.
4. EXTERIOR CONCRETE EXPOSED TO FREEZING TEMPERATURES AND/OR SALT OR DEICING CHEMICALS SHALL HAVE AIR ENTRAINMENT AND THE CEMENT CONTENT APPROPRIATE FOR THE EXPECTED EXPOSURE.
5. WATER SHALL BE POTABLE OR CLEAN, FREE FROM DELETERIOUS AMOUNTS OF ACIDS, ALKALIS OR ORGANIC MATERIALS, OILS, AND SALTS.
6. READY–MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C–94.
7. FLOOR SLABS SHALL CONFORM TO ASTM C–38 STANDARDS AND SHALL BE AT LEAST 3 1/2 INCHES THICK – SEE FOUNDATION PLANS FOR REINFORCEMENT, BASE, UNDERLAYMENT, VAPOR BARRIER OR OTHER SPECIFIC REQUIREMENTS.
8. FLOOR SLABS SHALL BE LEVEL OR TRUE SLOPES AS SHOWN ON DRAWINGS. TOLERANCE: 1/8 INCH IN 10 FEET
9. PROVIDE LIGHT BROOM FINISH ON ALL EXPOSED CONCRETE UNLESS NOTED OTHERWISE.
10. PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES.
11. ALL EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.
12. FORMWORK SHALL REMAIN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 90% OF COMPRESSIVE STRENGTH. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND RESHORING.
13. PROVIDE CONCRETE SLABS OVER A 10 MIL POLYETHYLENE VAPOR BARRIER OVER 4" OF POROUS FILL UNLESS NOTED OTHERWISE.
14. ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR MATERIAL. POROUS FILL SHALL BE COMPACTED TO 90% MAX. DRY DENSITY.
15. WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. SEE THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS. PROVIDE 4" WALKS REINFORCED WITH 6X6 – W1.4XW1.4 WWF UNLESS OTHERWISE NOTED.
16. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO CHAPTER 19 OF THE CBC AND TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," EXCEPT AS SPECIFIED HEREIN.
17. ALL FOOTINGS SHALL REST ON FIRM NATURAL SOIL OR APPROVED COMPACTED FILL.
18. MONOPOLE CAISSONS ARE DESIGNED BY OTHERS. PROVIDE ADEQUATE SEPARATION AND/OR COMPRESSIBLE MATERIAL AROUND THE TOP OF THE CAISSON AS DIRECTED BY THE CAISSON ENGINEER TO PROTECT ADJACENT NEW AND EXISTING FOUNDATIONS AND OTHER ELEMENTS.
19. CONTROL JOINTS SHALL BE PLACED IN ALL CONCRETE SLABS PER THE SCHEDULE BELOW. SAWCUT WITHIN 4 HOURS AFTER THE POUR USING THE "SOFF–CUT" PROCEDURE.

SLAB THICKNESS	MAXIMUM SPACING
4"	10'–0"
5"	12'–0"
6" AND LARGER	15'–0"

REINFORCING STEEL NOTES

1. ALL REINFORCING SHALL BE NEW DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 OR ASTM A706, GRADE 60. ALL WELDED REINFORCING BARS SHALL CONFORM TO ASTM A706.
2. REINFORCING STEEL SPLICE/DEVELOPMENT LENGTHS SHALL CONFORM TO THE FOLLOWING MINIMUM LENGTHS UNLESS NOTED OTHERWISE: SPICED BARS SHALL BE WIRED TOGETHER.

SPLICE/DEVELOPMENT LENGTH (INCHES)		
BAR SIZE	TOP BAR	OTHER BAR
#3	28	22
#4	37	29
#5	47	36
#6	56	43
#7	81	63
#8	93	72
#9	105	81
#10	116	89

THE BAR LENGTHS APPLY TO HORIZONTAL REINFORCEMENT PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THE SPLICE OR DEVELOP LENGTH. COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS. LAP WELDED WIRE FABRIC ONE SPACING OF CROSS WIRES PLUS 2"

3. MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE:
UNFORMED SURFACE IN CONTACT WITH THE GROUND:
FORMED SURFACES EXPOSED TO EARTH OR WEATHER
#6 BARS AND LARGER: 2"
#5 BARS AND SMALLER: 1.5"
FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER
BEAMS, GIRDERS AND COLUMNS: 1.5"
SLABS, WALLS AND JOISTS
#11 BARS AND SMALLER: 0.75"
4. BARS SHALL BE CLEAN OF MUD, OIL, OR OTHER COATINGS LIKELY TO IMPAIR BONDING.
5. ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO INSPECTIONS, PLACING CONCRETE, OR GROUTING MASONRY.
6. WELDING: BARS SHALL NOT BE WELDED UNLESS AUTHORIZED. WHEN AUTHORIZED, CONFORM TO ACI 301 SEC 3.2, 2.2, AND AWS D1.4 "WELDING" AND PROVIDE ASTM A706, GRADE 60 REINFORCEMENT.
7. FIELD BENDING: CONFORM TO ACI 301 SEC 3.3.2.8 "FIELD BENDING OR STRAIGHTENING". BAR SIZES #3 THROUGH #5 MAY BE FIELD BENT COLD THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS.
8. SPLICE ALL BARS IN MASONRY WITH A MINIMUM OF 46 BAR DIAMETER LAPS (2'–0" MINIMUM).
9. ALL VERTICAL WALL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN SPLICE LOCATIONS SHOWN IN THE DETAILS.

ISSUED FOR:

STANFORD RANCH

6160 STANFORD RANCH ROAD

ROCKLIN, CALIFORNIA 95765



5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583



WIRELESS GROUP LLC
Connecting a Wireless World



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

AT&T SITE NO:	CVU0087
PROJECT NO:	10151642
DRAWN BY:	AF
CHECKED BY:	MF

C	02/06/2020	100% ZD'S	SD	
B	12/06/2019	90% ZD'S REVISED	SD	
A	09/23/2019	90% ZD'S FOR REVIEW	AF	
REV	DATE	DESCRIPTION	BY	

LICENSOR:

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SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-2

Title Report

PREPARED BY: FIRST AMERICAN TITLE INSURANCE COMPANY
ORDER NO.: 5006900-5954475
DATED: May 21, 2019

Legal Description

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF ROCKLIN, COUNTY OF PLACER, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL ONE:

Parcel D, as shown and designated on Stanford Ranch Retail Center Phase II Parcel Map No. DL 2000-10, filed for record June 29, 2001 in Book 30 of Parcel Maps, at Page 83, Official Records.

EXCEPTING THEREFROM:

All oil, gas and other hydrocarbon substance, inert gases, minerals and metals, lying below a depth of five hundred (500) feet from the surface of said property, whether now known to exist or hereafter discovered, including but not limited to the rights to explore for, develop and remove such without, however, any right to use, disturb or access the surface of said property, or any other portion thereof above a depth of five hundred (500) feet from the surface thereof, for any purpose whatsoever, as reserved by Stanford Ranch I, LLC, a Delaware Limited Liability Company, et al, in grant deed recorded December 21, 2000, Instrument No. 2000-0098604, Official Records.

PARCEL TWO:

A non-exclusive easement for vehicular ingress and egress over designated reciprocal driveways, as more particularly set forth and described in "Declaration of covenants, conditions and restrictions and grant of reciprocal easement", recorded March 16, 2001, Instrument No. 2001-0022851, Official Records.

Assessor's Parcel Number:

358-100-004

Access/Utility Routes & Lease Area

AS SHOWN HEREON

Basis of Bearings

THE STATE PLANE COORDINATE SYSTEM OF 1983 (NAD 83), CALIFORNIA ZONE 2.

Basis of Elevations

NAVD 88 / GEOD 12A, TRIMBLE NORTHERN CALIFORNIA RTN POSITIONING

Date of Survey

July 8 & 9, 2019



A&E DEVELOPMENT:

CONSULTANT:

ENGINEERING • SURVEYING
PLANNING

NEVADA
CITY
ENGINEERING, INC.



505-B COYOTE STREET NEVADA CITY
(530)265-6911

LICENSURE:

REVISION:

REVISION:	DATE: / BY:	DESCRIPTION:
1	07/03/18 JEB	SUBMITTAL

SITE INFORMATION:

SITE NUMBER
CVU0087

SITE NAME
**STANFORD
RANCH
SITE**

APN: 358-100-004
PLACER COUNTY

SHEET TITLE:

SITE OVERVIEW

SHEET NUMBER:

C-1

SHEET 1 OF 2



NOTES:

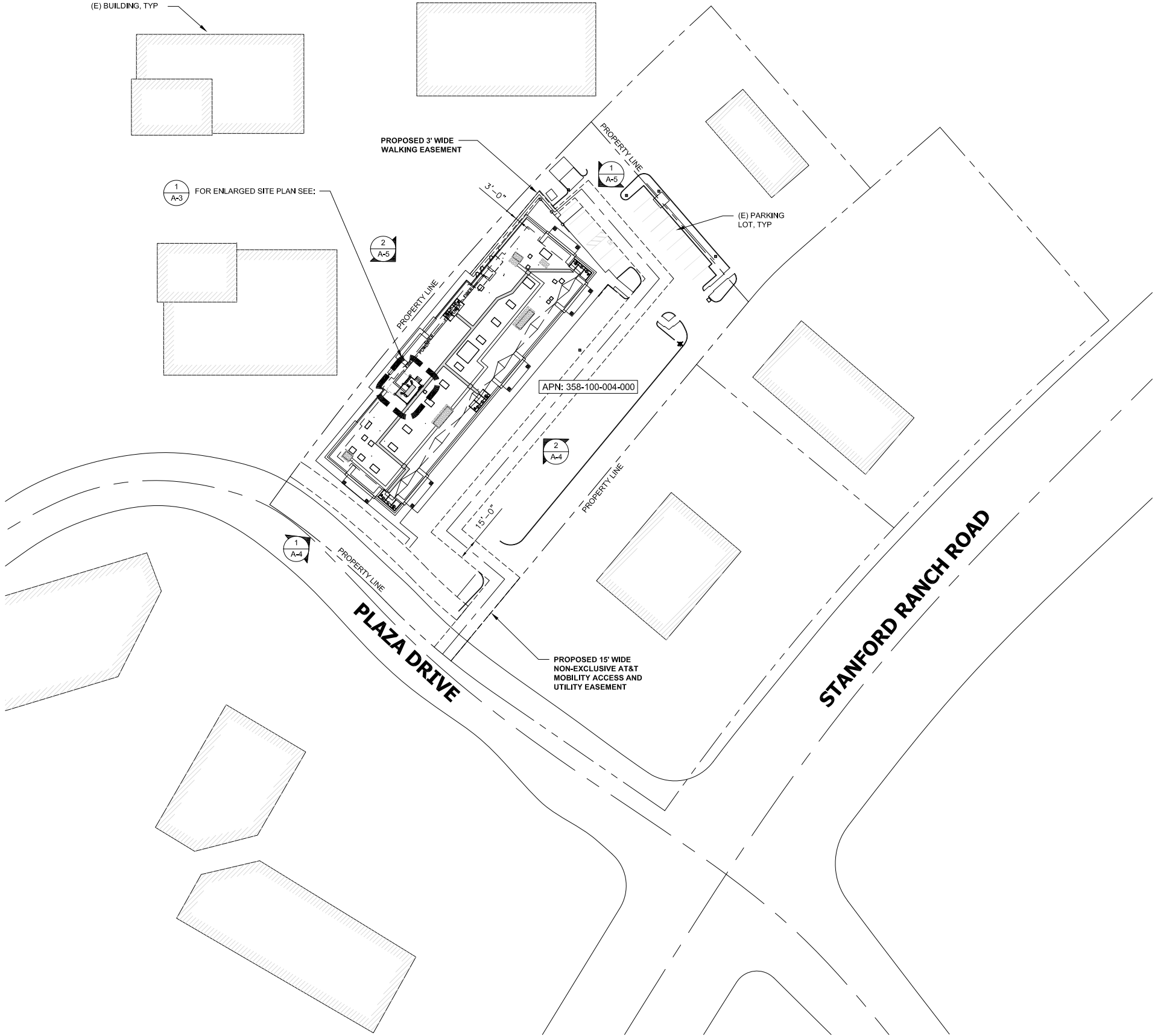
1. THE WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.
2. NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE NEW INSTALLATION.
3. THE BELOW GRADING INFORMATION IS AN ESTIMATE:
- TRENCH IS TO BE 3'-0" DEEP AND 18" WIDE - ALL SPOILS TO BE PLACED BACK INTO TRENCH & COMPACTED TO 90%
 - CONCRETE FOOTING IS TO BE 18 YARDS WITH A 5'-0" DIA.
 - CONCRETE PAD IS TO BE 9 YARDS TOTAL DISPLACEMENT - HALF ABOVE GRADE; DIRT TO BE IMPACTED 5 YARDS UNDER
 - ALL SPOILS TO BE REMOVED FROM PROJECT SITE

DISCLAIMER:

THIS SET OF DRAWINGS WAS PREPARED UTILIZING INFORMATION OBTAINED FROM PUBLIC DOCUMENTS MADE AVAILABLE ON THE JURISDICTIONS WEBSITE. M SQUARED WIRELESS CANNOT GUARANTEE THE ACCURACY OF THE DATA AND INFORMATION DEPICTED ON THE JURISDICTIONS WEBPAGE AND HEREBY EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE TRUTH, VALIDITY, INVALIDITY, ACCURACY, INACCURACY OF ANY SAID DATA AND INFORMATION. THE PARCEL LINES ON MAPS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT INTENDED TO BE USED AS A SURVEY PRODUCT. USER ACCEPTS RESPONSIBILITY FOR THE UNAUTHORIZED USE OR TRANSMISSION OF ANY SUCH DATA OR INFORMATION IN ITS ACTUAL OR ALTERED FORM.

LEGEND

- PROPERTY LINE - SUBJECT PARCEL
- EXISTING SETBACK LINE
- x- EXISTING FENCE LINE
- EXISTING ROAD
- EXISTING BUILDING



ISSUED FOR:

STANFORD
RANCH
6160 STANFORD RANCH
ROAD
ROCKLIN, CALIFORNIA
95765



AT&T SITE NO:	CVU0087
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SHEET TITLE

SITE PLAN

SHEET NUMBER

A-0



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LEGEND

X

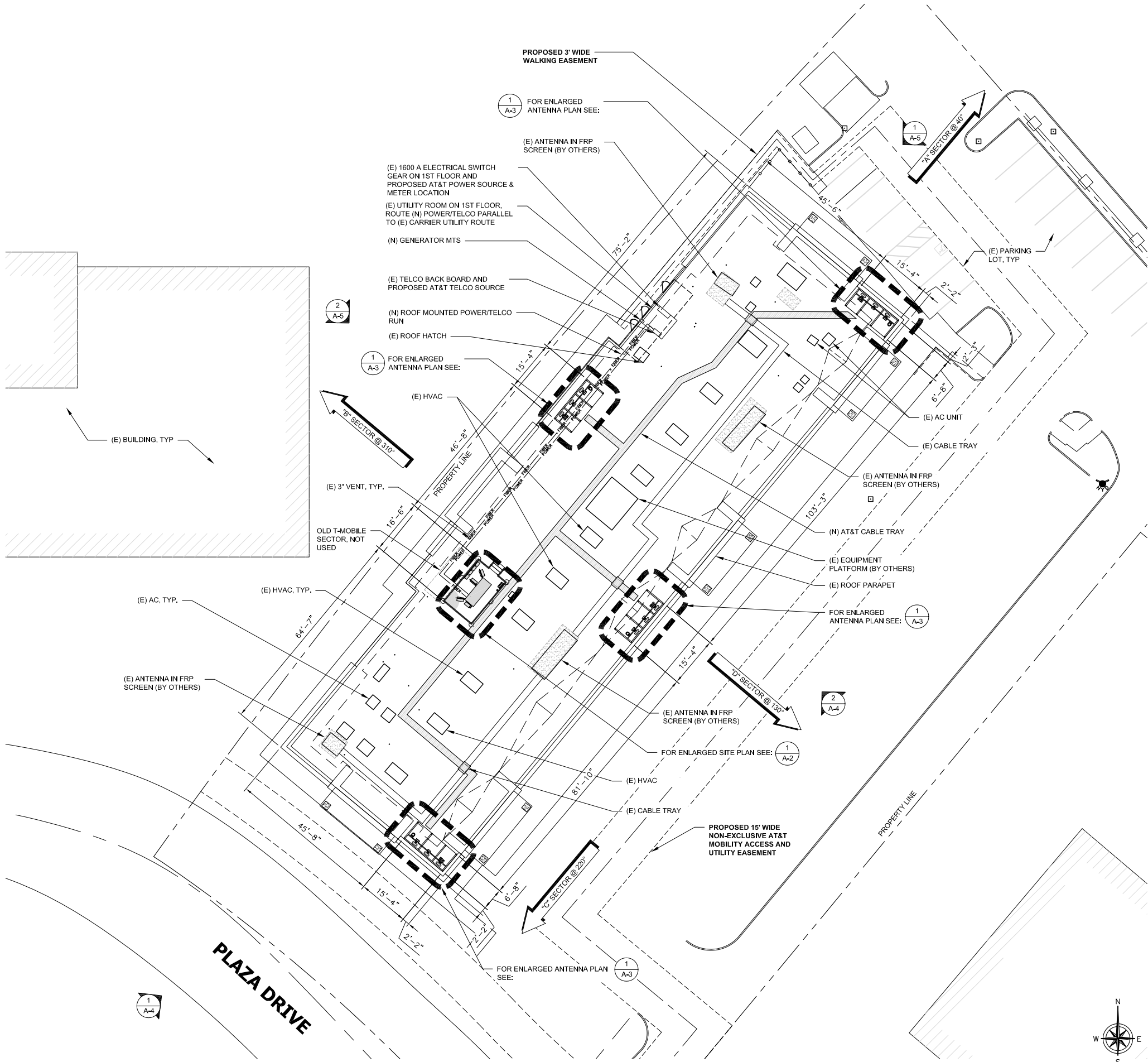
PROPERTY LINE - SUBJECT PARCEL

EXISTING SETBACK LINE

EXISTING FENCE LINE

EXISTING ROAD

EXISTING BUILDING



ISSUED FOR:
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SAN RAMON, CALIFORNIA 94583

WIRELESS GROUP LLC
Connecting a Wireless World

1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

AT&T SITE NO:	CVU0087
PROJECT NO:	10151642
DRAWN BY:	AF
CHECKED BY:	MF

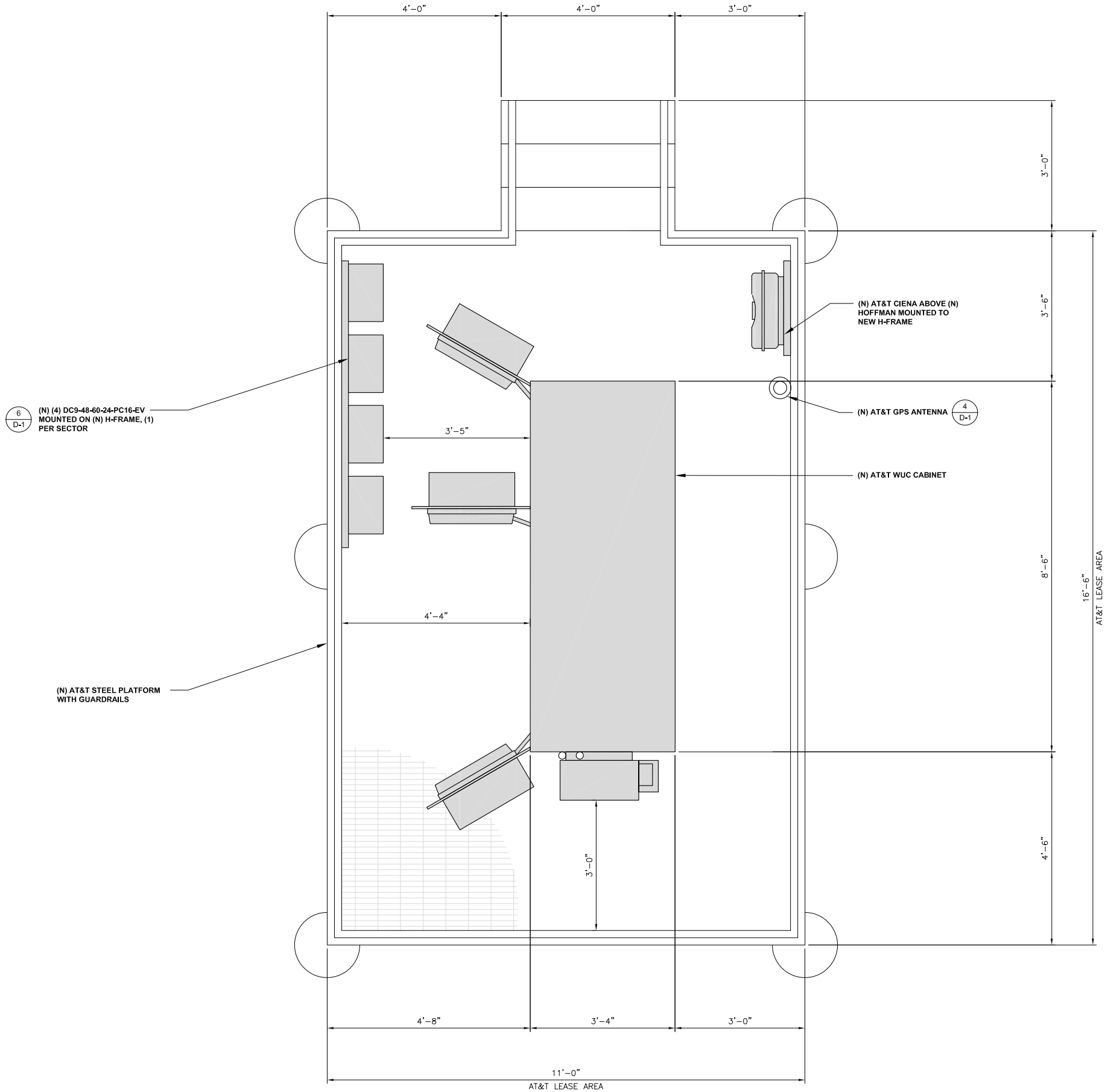
REV	DATE	DESCRIPTION	BY
C	02/06/2020	100% ZD'S	SD
B	12/06/2019	90% ZD'S REVISED	SD
A	09/23/2019	90% ZD'S FOR REVIEW	AF

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SHEET TITLE
ENLARGED ROOF PLAN

SHEET NUMBER
A-1



ISSUED FOR:
STANFORD RANCH
6160 STANFORD RANCH ROAD
ROCKLIN, CALIFORNIA 95765



M SQUARE WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

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SHEET TITLE
EQUIPMENT PLAN

SHEET NUMBER
A-2

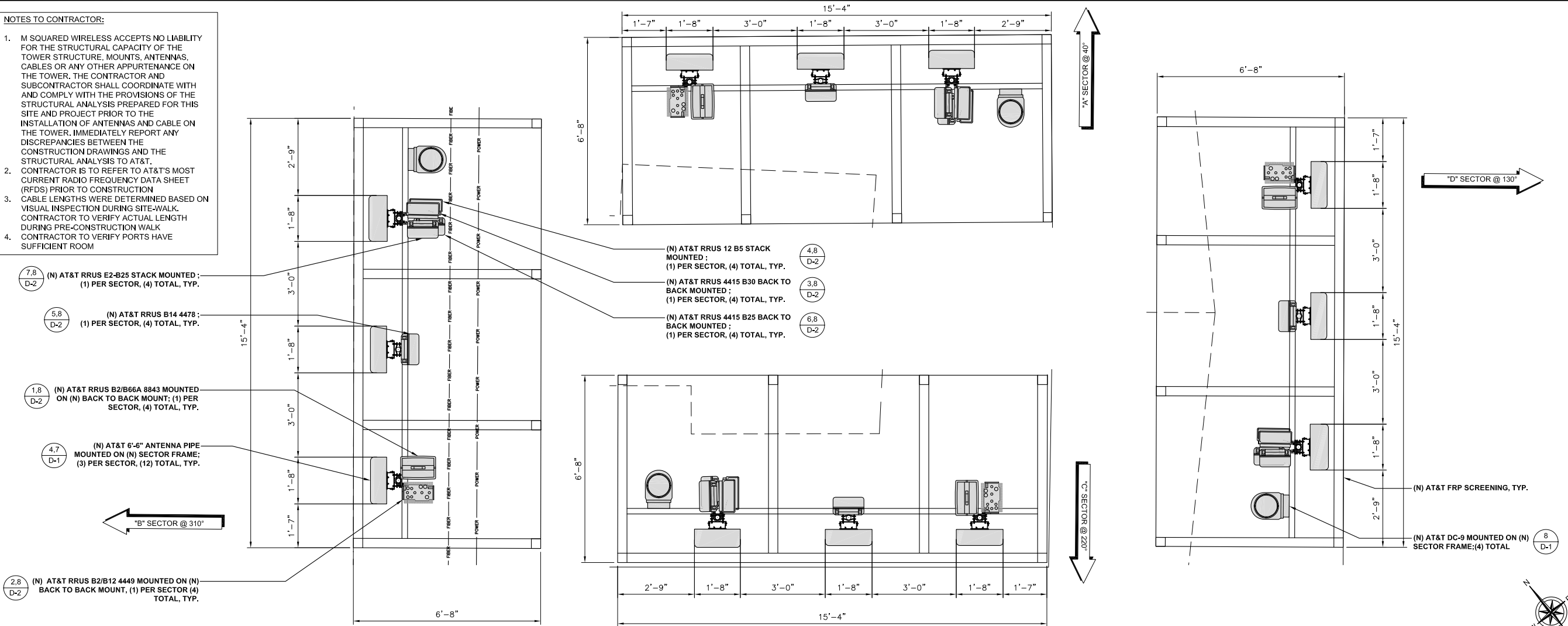
NEW OPTIMAL ANTENNA AND TRANSMISSION CABLES REQUIREMENT (VERIFY WITH CURRENT RFDS)							NEW REMOTE RADIO UNITS, TOWER MOUNTED AMPLIFIERS AND ANTENNA FILTERS (VERIFY WITH CURRENT RFDS)					
	ANTENNA	NEW TECHNOLOGY	ANTENNA MODEL	ANTENNA AZIMUTH	RAD CENTER	TRANSMISSION LINE		RRUS MODEL	RRUS COUNT	TMA, ANTENNA FILTER, & SURGE SUPPRESSOR	TMA/ FILTER/ SURGE COUNT	#DC FEEDS
						LENGTH	TYPE					
ALPHA SECTOR	A1	LTE 700/850/1900/AWS	KATHREIN 800-10965K (6'-6")	40°	27'-0"	±172'	FIBER	RRUS B5/B12 4449, RRUS B2/B66A 8843	2	DC-9 'SQUID' SURGE SUPPRESSOR	1	4
	A2	LTE 700/1900/WCS	KATHREIN 800-10965K (6'-6")	40°	27'-0"	±172'	FIBER	RRUS B14 4478	1	-	-	1
	A3	UMTS 850/ LTE 700/1900/WCS	NNH4-65B-R6H4 (6'-0")	40°	27'-0"	±172'	FIBER	RRUS 12 B5, RRUS 4415 B25, RRUS 4415 B30, RRUS E2-B29	4	-	-	4
BETA SECTOR	B1	LTE 700/850/1900/AWS	KATHREIN 800-10965K (6'-6")	310°	27'-0"	±76'	FIBER	RRUS B5/B12 4449, RRUS B2/B66A 8843	2	DC-9 'SQUID' SURGE SUPPRESSOR	1	4
	B2	LTE 700/1900/WCS	KATHREIN 800-10965K (6'-6")	310°	27'-0"	±76'	FIBER	RRUS B14 4478	1	-	-	1
	B3	UMTS 850/ LTE 700/1900/WCS	NNH4-65B-R6H4 (6'-0")	310°	27'-0"	±76'	FIBER	RRUS 12 B5, RRUS 4415 B25, RRUS 4415 B30, RRUS E2-B29	4	-	-	4
GAMMA SECTOR	C1	LTE 700/850/1900/AWS	KATHREIN 800-10965K (6'-6")	220°	27'-0"	±98'	FIBER	RRUS B5/B12 4449, RRUS B2/B66A 8843	2	DC-9 'SQUID' SURGE SUPPRESSOR	1	4
	C2	LTE 700/1900/WCS	KATHREIN 800-10965K (6'-6")	220°	27'-0"	±98'	FIBER	RRUS B14 4478	1	-	-	1
	C3	UMTS 850/ LTE 700/1900/WCS	NNH4-65B-R6H4 (6'-0")	220°	27'-0"	±98'	FIBER	RRUS 12 B5, RRUS 4415 B25, RRUS 4415 B30, RRUS E2-B29	4	-	-	4
DELTA SECTOR	D1	LTE 700/850/1900/AWS	KATHREIN 800-10965K (6'-6")	130°	27'-0"	±62'	FIBER	RRUS B5/B12 4449, RRUS B2/B66A 8843	2	DC-9 'SQUID' SURGE SUPPRESSOR	1	4
	D2	LTE 700/1900/WCS	KATHREIN 800-10965K (6'-6")	130°	27'-0"	±62'	FIBER	RRUS B14 4478	1	-	-	1
	D3	UMTS 850/ LTE 700/1900/WCS	NNH4-65B-R6H4 (6'-0")	130°	27'-0"	±62'	FIBER	RRUS 12 B5, RRUS 4415 B25, RRUS 4415 B30, RRUS E2-B29	4	-	-	4
TOTAL									28		4	36
									TOTAL TOTAL			

ANTENNA & EQUIPMENT SCHEDULE

2

NOTES TO CONTRACTOR:

- M SQUARED WIRELESS ACCEPTS NO LIABILITY FOR THE STRUCTURAL CAPACITY OF THE TOWER STRUCTURE, MOUNTS, ANTENNAS, CABLES OR ANY OTHER APPURTENANCE ON THE TOWER. THE CONTRACTOR AND SUBCONTRACTOR SHALL COORDINATE WITH AND COMPLY WITH THE PROVISIONS OF THE STRUCTURAL ANALYSIS PREPARED FOR THIS SITE AND PROJECT PRIOR TO THE INSTALLATION OF ANTENNAS AND CABLE ON THE TOWER. IMMEDIATELY REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE STRUCTURAL ANALYSIS TO AT&T.
- CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION
- CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK
- CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM



NEW ANTENNA PLAN

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"

0' 1' 2' 4'

1

ISSUED FOR:
STANFORD RANCH
6160 STANFORD RANCH ROAD
ROCKLIN, CALIFORNIA 95765



M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

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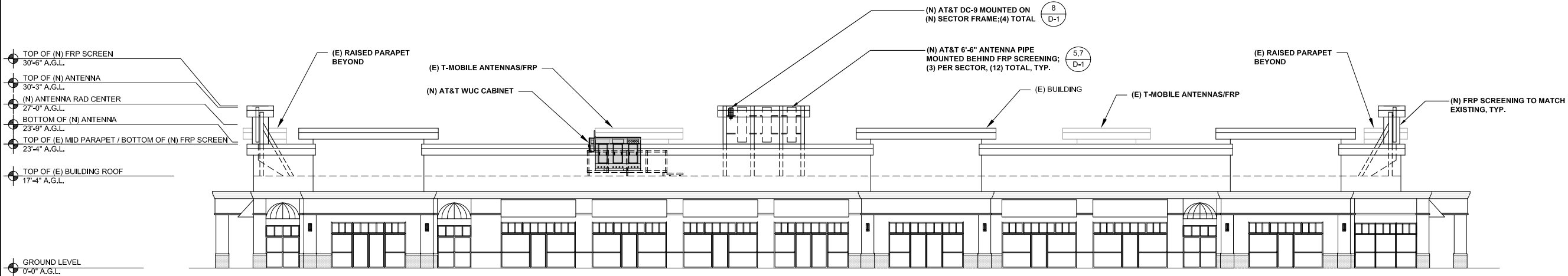
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SHEET TITLE
ANTENNA PLAN & SCHEDULE

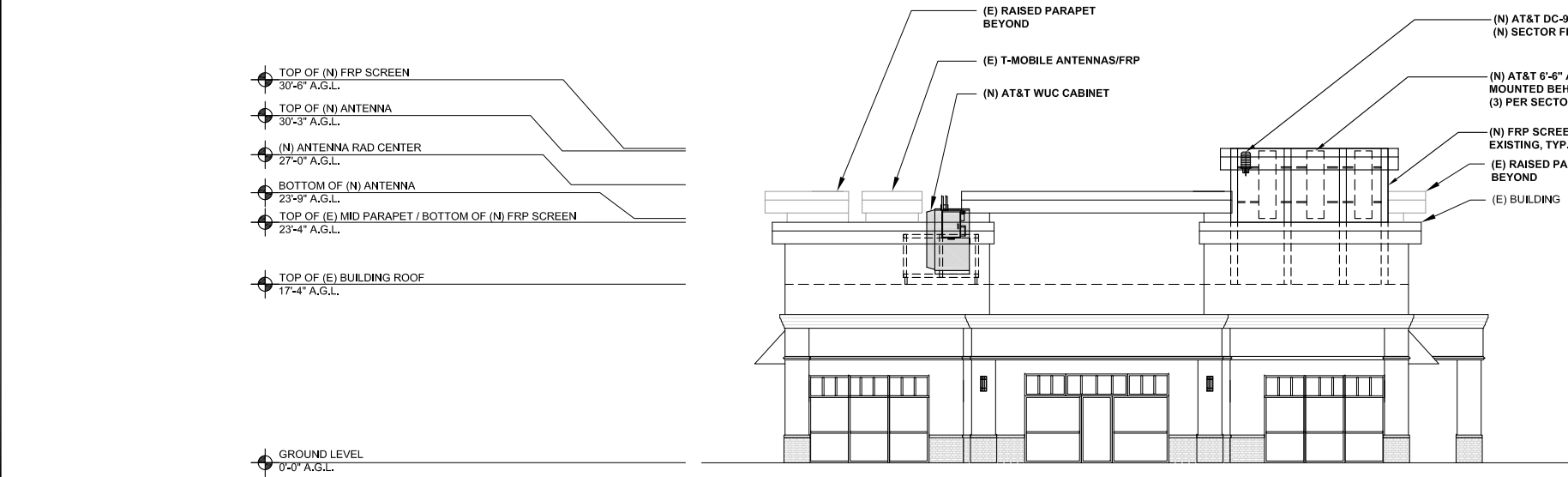
SHEET NUMBER
A-3



SOUTHEAST ELEVATION

24"x36" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0" 8' 4' 0" 8'

2



SOUTHWEST ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0" 8' 6' 4' 2' 0" 8'

1

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6160 STANFORD RANCH ROAD
ROCKLIN, CALIFORNIA 95765



AT&T SITE NO:	CVU0087
PROJECT NO:	10151642
DRAWN BY:	AF
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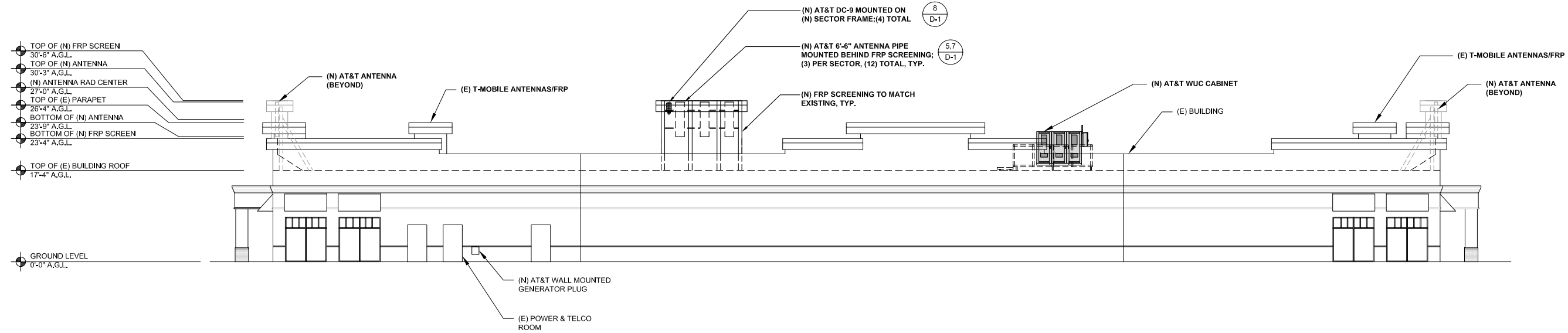
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SHEET TITLE
ELEVATIONS

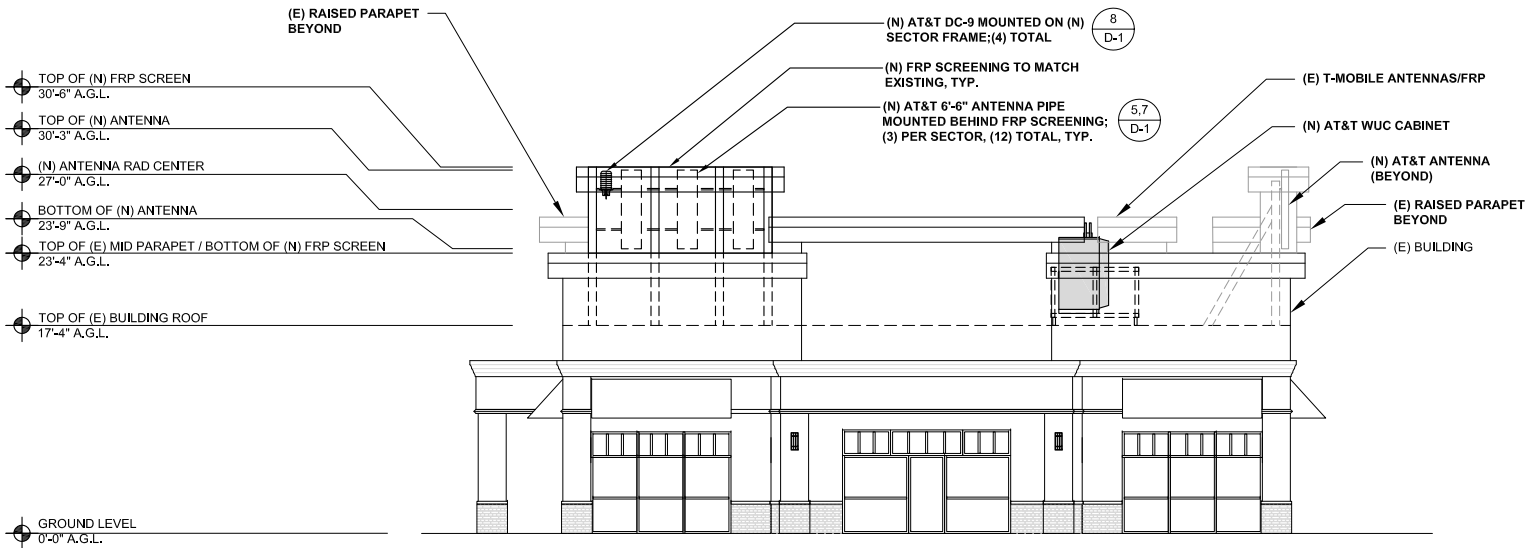
SHEET NUMBER
A-4



NORTHWEST ELEVATION

24"x36" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"
8' 4' 0' 8'

2



NORTHEAST ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"
8' 6' 4' 2' 0' 8'

1

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6160 STANFORD RANCH ROAD
ROCKLIN, CALIFORNIA 95765



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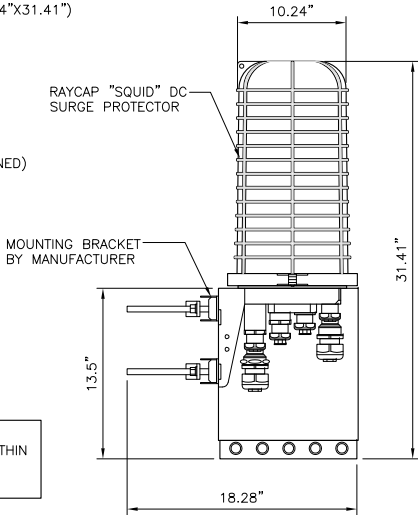
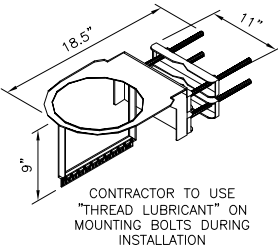
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SHEET TITLE
ELEVATIONS

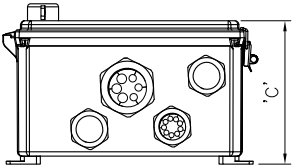
SHEET NUMBER
A-5

RAYCAP DC9-48-60-24-8C-EV

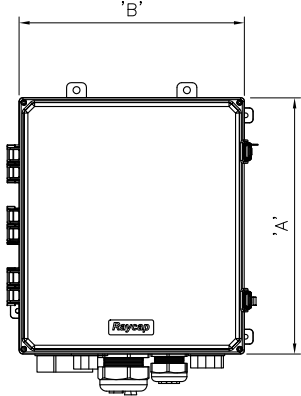
DIMENSIONS, WDXH: 260X798MM (10.24"x31.41")
NOMINAL OPERATING VOLTAGE: 60 VDC
NOMINAL DISCHARGE CURRENT: 20 KA 8/20MS
MAXIMUM CONTINUOUS OPERATING VOLTAGE: 60 VDC
VOLTAGE PROTECTION RATING: 330 V
WIND LOADING: 150 MPH (SUSTAINED)
195 MPH (GUST)
TOTAL WEIGHT: 26.2 LBS



MANUFACTURER:	RAYCAP
MODEL NO.:	DC9-48-60-24-PC16-EV
DIMENSIONS:	
A	16.57"
B	14.58"
C	9.64"
TOTAL WEIGHT:	34.9 LBS



BOTTOM VIEW



FRONT VIEW

DC-9 "SQUID" SURGE SUPPRESSOR

24"x36" SCALE: NTS
11"x17" SCALE: NTS

8

DC-9 SURGE SUPPRESSOR

24"x36" SCALE: NTS
11"x17" SCALE: NTS

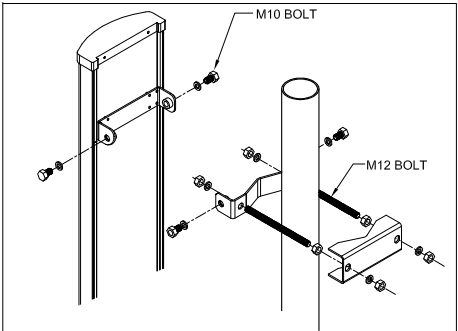
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NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

MAXIMUM TORQUE	
M8	15N.m (11FT.LBS)
M10	37N.m (27FT.LBS)
M12	58N.m (43FT.LBS)



NEW ANTENNA MOUNTING BRACKET: BSAMNT-1 (INCLUDED)

SBNHH-1D65B ANTENNA

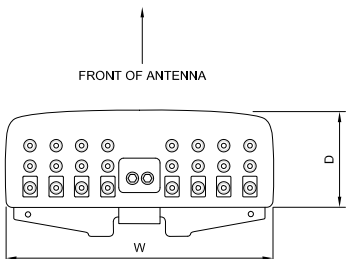
NEW ANTENNA MOUNTING BRACKET: BSAMNT-1 (INCLUDED)

ATTENTION: INSERT M12 BOLTS AND M12 FLAT WASHERS INTO BRACKET WITH TABS PRIOR TO ATTACHING BRACKET TO ANTENNA.

3" STD. PIPE (3-1/2" O.D.) ANTENNA MOUNTING MAST, MIN. 6'-0" L, (ATTACH TO EXISTING CROSSARM W/ SITE PRO 1 PN: SCX-4 CROSSOVER KIT)

MAXIMUM TORQUE	
M10	37N.m (27FT.LBS)
M12	58N.m (43FT.LBS)

KATHREIN 800 10965K	
HEIGHT (H)	78.7"
WIDTH (W)	20.0"
DEPTH (D)	6.9"
WEIGHT	97.6 LBS.
SURVIVAL WIND SPEED:	> 241.0 km/h
WIND LOADING, MAXIMUM:	
FRONT:	1130 N @ 150 km/h
CONNECTOR:	8: 4.3-10 DIN FEMALE - BOTTOM
MOUNTING POLE:	4.3 - 8.7 INCHES (11.0-22.0 CM)



BOTTOM VIEW (CONNECTIONS)

FRONT VIEW

SIDE VIEW

KATHREIN 6'-6" 12-PORT ANTENNA

24"x36" SCALE: NTS
11"x17" SCALE: NTS

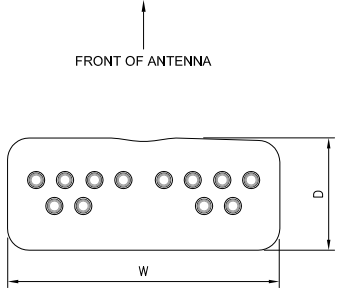
5

COMMSCOPE 6' PANEL ANTENNA

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

COMMSCOPE NNH4-65B-R6H4	
HEIGHT (H)	72.0"
WIDTH (W)	19.6"
DEPTH (D)	7.8"
WEIGHT	84.4 LBS.
SURVIVAL WIND SPEED:	150.0 MPH
WIND LOADING, MAX:	
FRONT:	694 N @ 150 km/h
SIDED:	235 N @ 150 km/h
CONNECTOR:	(8) 4.3-10 DIN FEMALE - BOTTOM
MOUNTING POLE:	2.4 - 4.5 INCHES

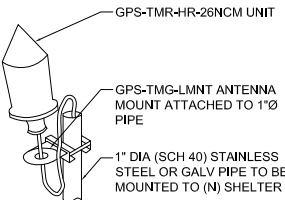


BOTTOM VIEW

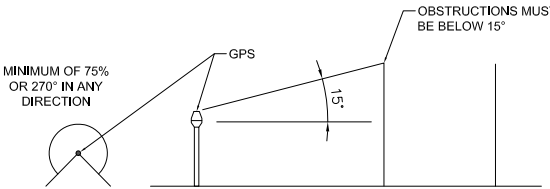
FRONT VIEW

SIDE VIEW

- NOTE:
- THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1"Ø, SCH. 40, GALVANIZED S.S. STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQ'D LENGTH USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBARRED.
 - IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2" OF LEVEL.
 - DO NOT SWEEP TEST GPS ANTENNA.



SPECIFICATIONS	
HEIGHT	5"
WIDTH	3.2"
WEIGHT	0.6 LBS



(N) GPS ANTENNA

24"x36" SCALE: NTS
11"x17" SCALE: NTS

4

NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

ANTENNA MOUNTING DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

7

ISSUED FOR:
STANFORD RANCH
6160 STANFORD RANCH ROAD
ROCKLIN, CALIFORNIA 95765

5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583

Connecting a Wireless World

1387 CALLE AVANZADO
SAN CLEMENTE CA 92073 (949) 391-8824

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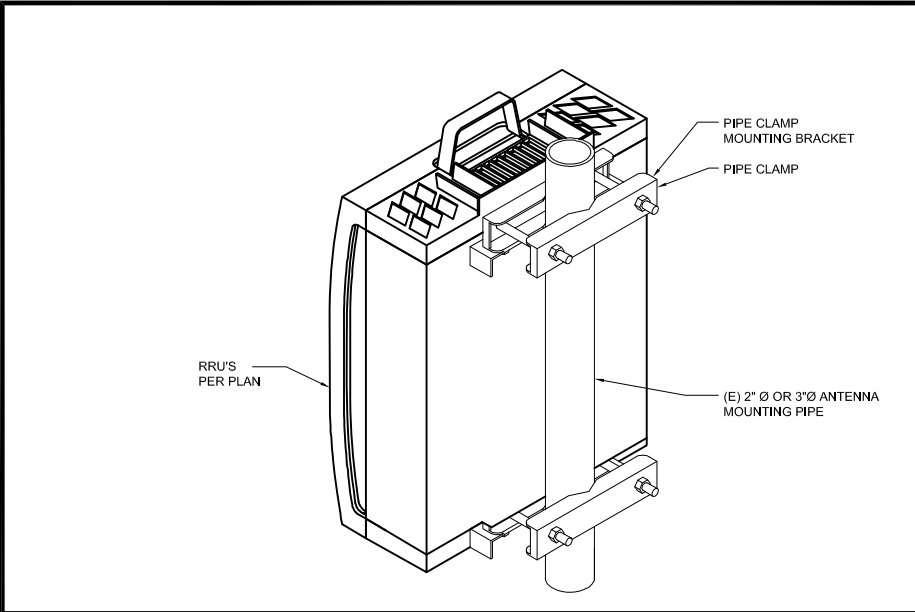
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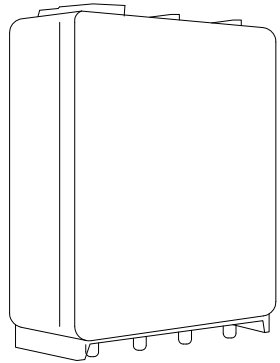
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SHEET TITLE
DETAILS

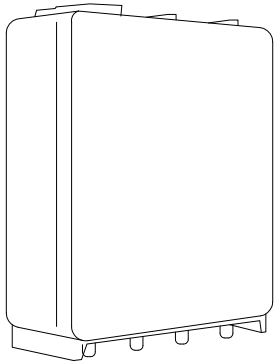
SHEET NUMBER
D-1



- RRUS 4415 B25
- › B25
 - TX = 1930 – 1995 MHz
 - RX = 1850 – 1915 MHz
 - › CPRI 2 ports x 2.5/4,9/9.8/10.1 Gbps. Install 2 SFPs and connect 2 fiber pair to the RRUS 4415 during Initial Install.
 - › Only use Ericsson supplied and approved SFPs RDH10265/25
 - Exception: SFP7 RDH 10265/3 for CPRI 1.4km to 10km
 - Exception: SFP7 (pair): RDH 102 70/1 and RDH 102 70/2 for CPRI > 10km
 - › 2 external alarm inputs
 - › Max wind load @ 50m/sec = 260N
 - › Breaker size = 25A, DC Power Consumption = 670 W (for dimensioning)
 - › 200mm horizontal separation required for side by side mounting
 - › 200mm separation required from antenna backplane to radio
 - › 400mm vertical outdoor/indoor separation required between 2 radios
 - › 500mm vertical separation below antenna
 - › Min, Max DC cable size from squid to radio = 10,8 AWG
 - Adapter Is required for 2-wire connection
 - Shielded DC cable Is required
 - › Ground cable size = 2AWG
 - › Dimensions (Incl. handles, feet and sunshield, w/o fan unit)
 - Height: 16.5" (420 mm)
 - Width: 13.4" (342 mm)
 - Depth: 5.9" (149 mm)
 - › Weight, excl. mounting hardware = 46 lbs (21 kg)



- RRUS 4415 B30
- › B30
 - TX = TBD
 - RX = TBD
 - › CPRI 2 ports x 2.5/4,9/9.8/10.1 Gbps. Install 2 SFPs and connect 2 fiber pair to the RRUS 4415 during Initial Install.
 - › Only use Ericsson supplied and approved SFPs RDH10265/25
 - Exception: SFP7 RDH 10265/3 for CPRI 1.4km to 10km
 - Exception: SFP7 (pair): RDH 102 70/1 and RDH 102 70/2 for CPRI > 10km
 - › 2 external alarm inputs
 - › Max wind load @ 50m/sec = 260N
 - › Breaker size = 25A, DC Power Consumption = 670 W (for dimensioning)
 - › 200mm horizontal separation required for side by side mounting
 - › 200mm separation required from antenna backplane to radio
 - › 400mm vertical outdoor/indoor separation required between 2 radios
 - › 500mm vertical separation below antenna
 - › Min, Max DC cable size from squid to radio = 10,8 AWG
 - Adapter Is required for 2-wire connection
 - Shielded DC cable Is required
 - › Ground cable size = 2AWG
 - › Dimensions (Incl. handles, feet and sunshield, w/o fan unit)
 - Height: 16.5" (420 mm)
 - Width: 13.4" (342 mm)
 - Depth: 5.9" (149 mm)
 - › Weight, excl. mounting hardware = 46 lbs (21 kg)



RRUS @ STD. PIPE MOUNT

24"x36" SCALE: NTS
11"x17" SCALE: NTS

9

ERICSSON RRUS 4415 B25

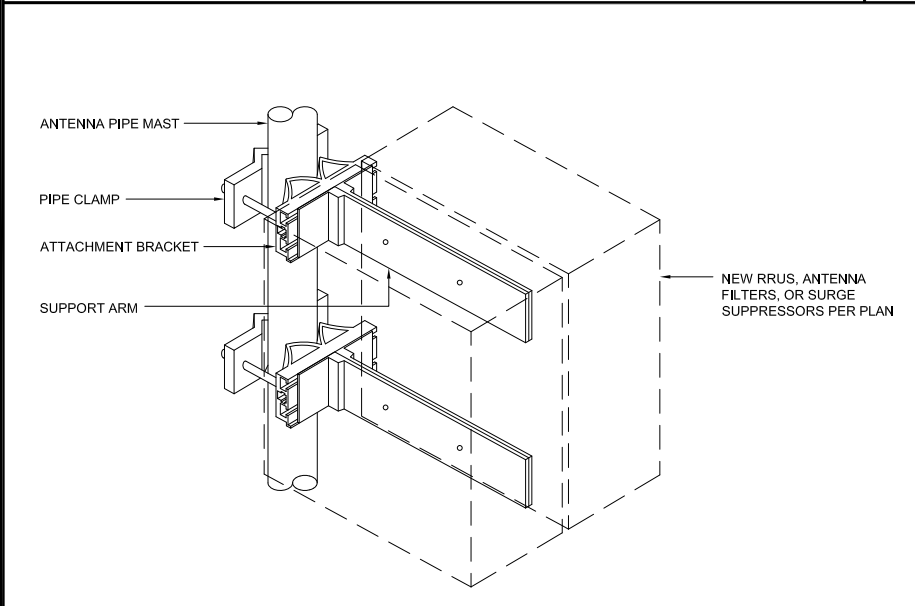
24"x36" SCALE: NTS
11"x17" SCALE: NTS

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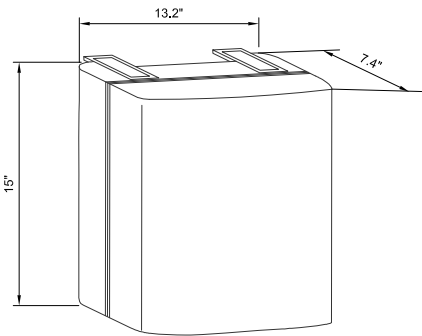
ERICSSON RRU 4415 B30

24"x36" SCALE: NTS
11"x17" SCALE: NTS

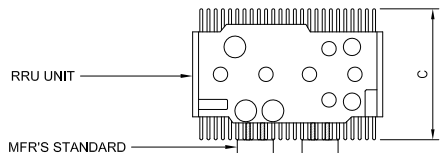
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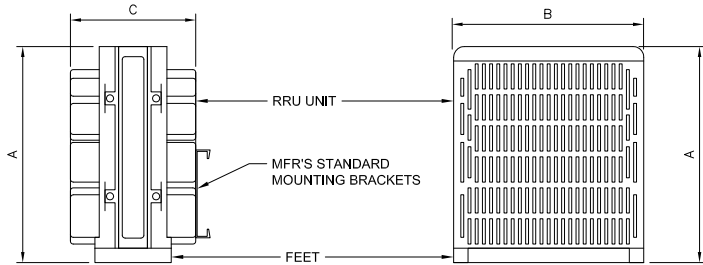
B14 4478 IS EXPECTED FFA/GA IN 3Q
HEIGHT: 15"
WIDTH: 13.2"
DEPTH: 7.4"
4X40W FOR 4T4R OR 2X40W+2X40W 2T2R SECTORS
60 LBS
ONE CPRI CONNECTION PER RRH



MANUFACTURER:	ERICSSON
MODEL NO.:	RRUS 4449 B5/B12
DIMENSIONS:	TOTAL WEIGHT :
A 15"	
B 13.2"	70 LBS (31.7 kg)
C 9.3"	



BOTTOM VIEW



SIDE VIEW

FRONT VIEW

RRU BACK-TO-BACK MOUNT

24"x36" SCALE: NTS
11"x17" SCALE: NTS

8

NEW RRUS B14 4478

24"x36" SCALE: NTS
11"x17" SCALE: NTS

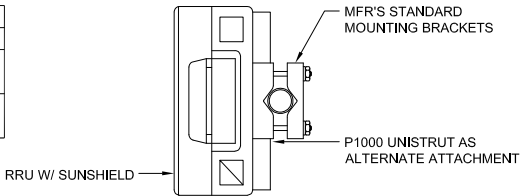
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ERICSSON RRUS 4449 B5/B12

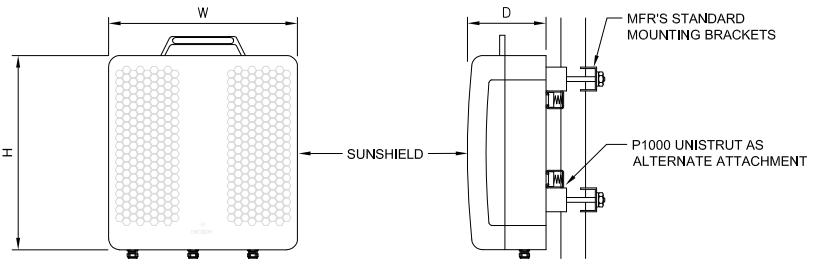
24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

MANUFACTURER:	ERICSSON
MODEL NO.:	RRUS E2 B29
DIMENSIONS:	TOTAL WEIGHT :
HEIGHT (H) 20.4"	
WIDTH (W) 18.5"	58 LBS (26.3 kg)
DEPTH (D) 7.5"	



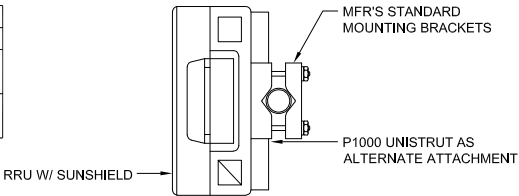
TOP VIEW



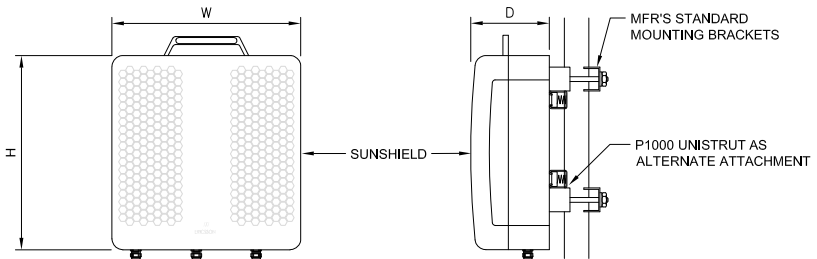
FRONT VIEW

SIDE VIEW

MANUFACTURER:	ERICSSON
MODEL NO.:	RRUS 12
DIMENSIONS:	TOTAL WEIGHT :
HEIGHT (H) 20.4"	
WIDTH (W) 18.5"	58 LBS (26.3 kg)
DEPTH (D) 7.5"	



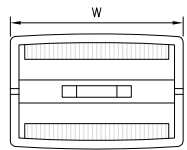
TOP VIEW



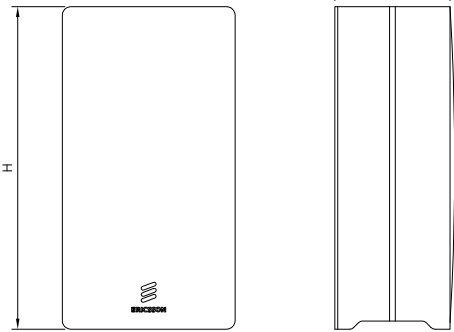
FRONT VIEW

SIDE VIEW

MANUFACTURER:	ERICSSON
MODEL NO.:	RRU 8843
DIMENSIONS:	TOTAL WEIGHT :
H 28"	
W 15"	85 LBS (38.5 kg)
D 10"	



PLAN VIEW



FRONT VIEW

SIDE VIEW

ERICSSON RRUS E2 B29

24"x36" SCALE: NTS
11"x17" SCALE: NTS

7

ERICSSON RRUS 12

24"x36" SCALE: NTS
11"x17" SCALE: NTS

4

ERICSSON RRU 8843 B2/B66A

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

ISSUED FOR:
STANFORD RANCH
6160 STANFORD RANCH ROAD
ROCKLIN, CALIFORNIA 95765

5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583

WIRELESS GROUP LLC
Connecting a Wireless World

1387 CALLE AVANZADO
SAN CLEMENTE CA 92073 (949) 391-8824

AT&T SITE NO:	CVU0087
PROJECT NO:	10151642
DRAWN BY:	AF
CHECKED BY:	MF

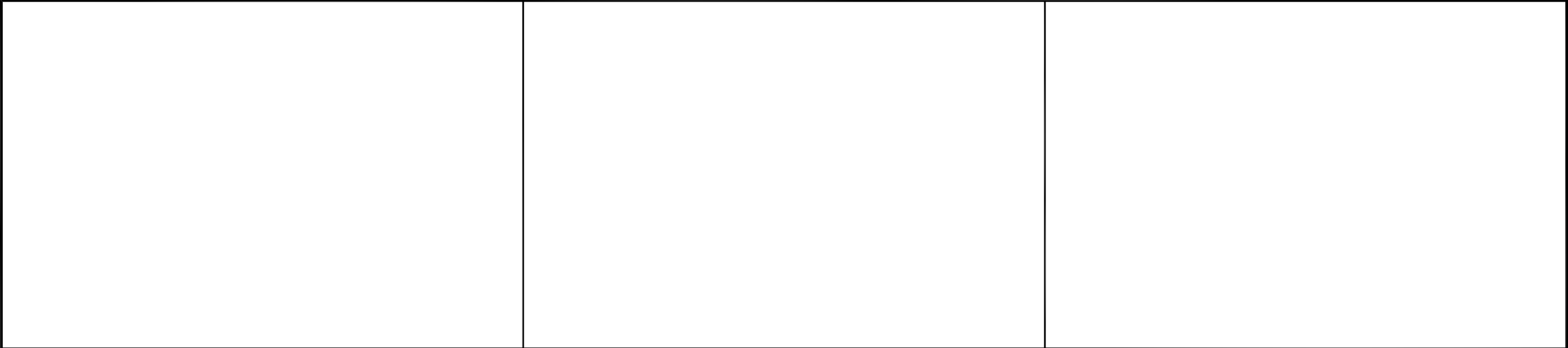
REV	DATE	DESCRIPTION	BY
C	02/06/2020	100% ZD'S	SD
B	12/06/2019	90% ZD'S REVISED	SD
A	09/23/2019	90% ZD'S FOR REVIEW	AF

LICENSOR:

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 TITLE
DETAILS

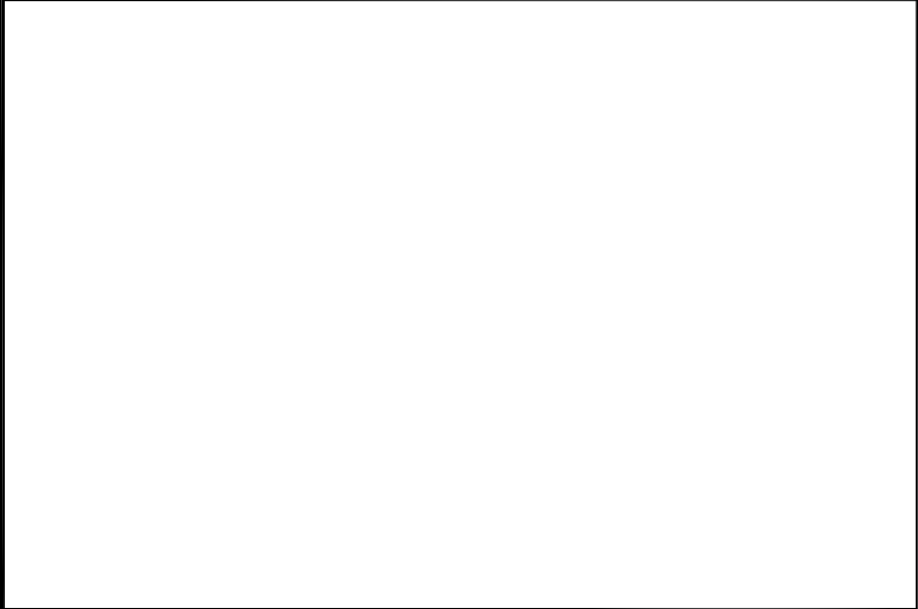
SHEET NUMBER
D-2



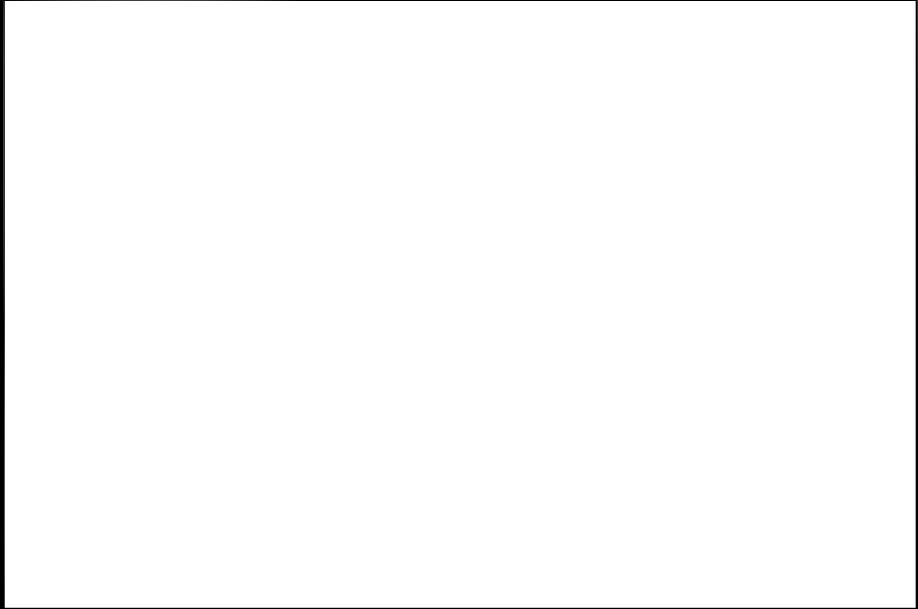
NOT USED24"x36" SCALE: NTS11"x17" SCALE: NTS6

NOT USED3

NOT USED2



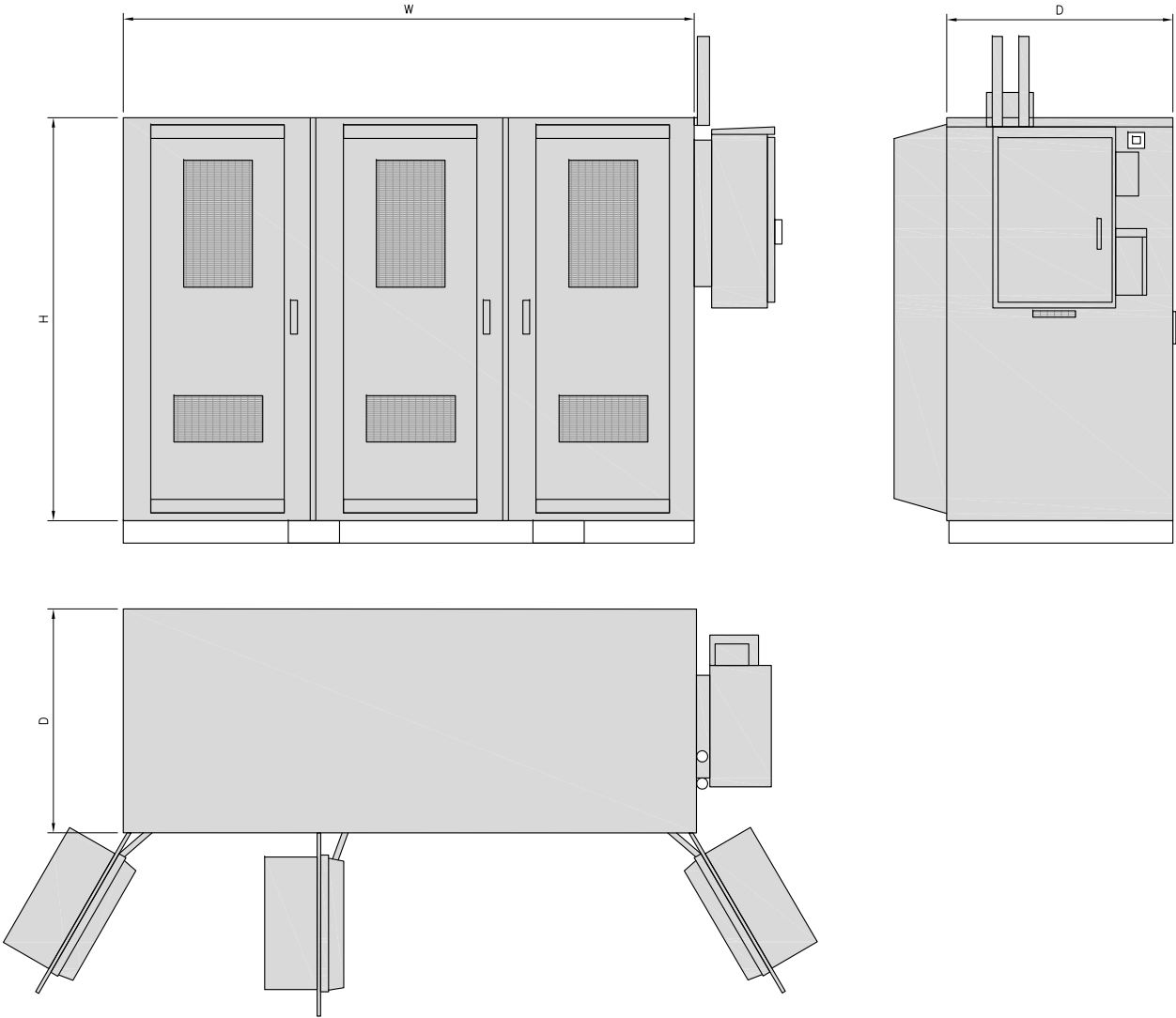
NOT USED24"x36" SCALE: NTS11"x17" SCALE: NTS5



NOT USED24"x36" SCALE: NTS11"x17" SCALE: NTS4

NOT USED6

MANUFACTURER:		DELTA ELECTRONICS, INC.	
MODEL NO.:		ESOF030-HCU01	
DIMENSIONS:		TOTAL WEIGHT :	
H	72"	925 LBS (419,5 kg)	
W	102.4"		
D	40"		



WUC CABINET24"x36" SCALE: NTS11"x17" SCALE: NTS1

ISSUED FOR:
STANFORD RANCH
6160 STANFORD RANCH ROAD
ROCKLIN, CALIFORNIA 95765



AT&T SITE NO:	CVU0087
PROJECT NO:	10151642
DRAWN BY:	AF
CHECKED BY:	MF

C	02/06/2020	100% ZD'S	SD
B	12/06/2019	90% ZD'S REVISED	SD
A	09/23/2019	90% ZD'S FOR REVIEW	AF
REV	DATE	DESCRIPTION	BY

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SHEET TITLE
DETAILS

SHEET NUMBER
D-3