



## REPORT TO CITY COUNCIL

**Approved by:**

  
\_\_\_\_\_  
Mark Souders, Information Services Manager

  
\_\_\_\_\_  
Arnaldo Rodriguez, City Manager

**Council Meeting of:** April 15, 2020

**Agenda Number:** B-4

**SUBJECT:**

Amendment to the Option and Structure Lease Agreement with AT&T Wireless to expand the Lease Area to Accommodate Electrical Equipment

**RECOMMENDATION:**

Adopt a Resolution Approving the First Amendment to the Option and Structure Lease Agreement with AT&T Wireless to extend the utility easement for AT&T Wireless

**SUMMARY:**

AT&T Wireless has leased antenna space on the Madera Loy E. Cook Water Tower and some adjacent ground space for an equipment location on the west side of the lift station, located at 716 Columbia Street, Madera. During the construction process, the PG&E meter for the project was not able to be placed inside the leased area due to site constraints. The resolution would extend the utility easement for AT&T to accommodate relocation of the PG&E meter.

**DISCUSSION:**

On January 1<sup>st</sup> 2019 Council approved a lease agreement with AT&T Wireless to increase the Cellular coverage area in Madera by leasing antenna space on the Madera Loy E. Cook Water Tower and some adjacent ground space for an equipment location on the west side of the lift station. The AT&T Wireless coverage area will be greatly enhanced for AT&T customers in and around the center of Madera. In addition, AT&T has agreed to remit \$1,600 on monthly basis as compensation for use of the water tower and adjacent land. The agreement includes an annual escalator of 2.5%; for a total of \$655,000 over the next 25 years.

Worth noting is that the subject Agreement also provides language that provides the City authorization to place four wireless access points on top of the Water Tower, facilitating wireless backup links and for remote surveillance camera locations that may otherwise be difficult to reach.

During the construction process, it was determined that the PG&E meter for the project was not able to be placed inside the planned location area due to site constraints. The original plan had the meter being placed inside of the AT&T utility easement location. The meter has now been placed north of this location, closer to Columbia Street proximate to the alley. The resolution would extend the utility easement for AT&T to accommodate the relocation of the PG&E meter (Exhibit 1-A / Page A-1.2).

The specific action recommended in this report is to approve an Amendment to the original Agreement with AT&T Wireless to accommodate the revised location for the PG&E meter.

**FINANCIAL IMPACT:**

Approving the Agreement with AT&T Wireless will have no financial impact. Rather, the agreement provides that AT&T pay the City \$1,600 on a monthly basis, plus an annual escalator of 2.5%.

**CONSISTENCY WITH THE VISION MADERA 2025 PLAN:**

The recommended actions support the following Vision Madera 2025 strategies:

This resolution will facilitate the continuation of the AT&T Cellular project which will provide additional internet bandwidth lacking in the interior of the city for AT&T customers which is consistent with the strategies listed below.

- *101.6* - Ensure infrastructure can sustain population growth in the development of the General Plan.
- *151.0* - Promote the comprehensive revitalization of downtown Madera.

**ALTERNATIVES:**

The Council has the authority to approve or reject this Agreement with AT&T Wireless. Not approving this amendment may result in considerable staff time to suggest alternate solutions and the possible considerable expense to execute an alternate solution.

**ATTACHMENTS:**

1. Council Resolution
2. AT&T First Amendment to Option and Structure Lease Agreement.
  - a. Exhibit 1-A: AT&T Site Plans for site CVL01150

RESOLUTION NO. \_\_\_\_\_

**RESOLUTION OF THE CITY COUNCIL OF MADERA, APPROVING THE  
FIRST AMMENDMENT TO OPTION AND STRUCTURE LEASE  
AGREEMENT WITH AT&T WIRELESS TO EXTEND THE UTILITY  
EASEMENT FOR AT&T WIRELESS AND AUTHORIZING THE MAYOR TO  
EXECUTE THE AGREEMENT ON BEHALF OF THE CITY**

**WHEREAS**, the City of Madera and AT&T Wireless have previously negotiated and signed a lease agreement that is desirable for both parties; and

**WHEREAS**, said agreement was considered and approved by the City Council at a regular scheduled meeting on January 1<sup>st</sup> 2019.

**WHEREAS**, the placement of the PG&E meter for AT&T was outside of the original leased area due to site constraints; and

**WHEREAS**, the City of Madera and AT&T Wireless have agreed to amend the lease agreement extending the utility easement to accommodate relocation of the PG&E meter.

**NOW, THEREFORE THE CITY COUNCIL OF THE CITY OF MADERA**, hereby finds, determines, resolves and orders as follows:

1. The recitals listed above are true and correct.
2. The First Amendment to Option and Structure Lease Agreement, provided by AT&T Wireless, a copy of which is on file in the office of the City Clerk and referred to for particulars, is hereby approved.
3. The Mayor is authorized to execute the First Amendment to Option and Structure Lease Agreement with AT&T Wireless on behalf of the City of Madera.
4. This resolution is effective immediately upon adoption.

\*\*\*\*\*

Market: Northern California  
Cell Site Number: CVL01150  
Cell Site Name: Columbus & Riverside Drive  
Fixed Asset Number: 14066698

## FIRST AMENDMENT TO OPTION AND STRUCTURE LEASE AGREEMENT

THIS FIRST AMENDMENT TO OPTION AND STRUCTURE LEASE AGREEMENT (“**Amendment**”), dated as of the latter of the signature dates below, is by and between City of Madera, a municipal corporation, having a mailing address of 205 W. 4<sup>th</sup> Street, Madera, CA 93637 (“**Landlord**”) and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 1025 Lenox Park Blvd. NE, 3<sup>rd</sup> Floor, Atlanta, GA 30319 (“**Tenant**”).

WHEREAS, Landlord and Tenant entered into an Option and Structure Lease Agreement dated December 12, 2018, whereby Landlord leased to Tenant certain Premises, therein described, that are a portion of the Property located at 817 Columbia Street, in the City of Madera, County of Madera, State of California ("**Agreement**"); and

WHEREAS, Landlord and Tenant wish to amend the Agreement to revise the Premises; and

WHEREAS, Landlord and Tenant, in their mutual interest, wish to amend the Agreement as set forth below accordingly.

NOW THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Landlord and Tenant agree as follows:

- Exhibit 1.** Exhibit 1 to the Agreement is replaced with Exhibit 1-A attached hereto to memorialize the redesign and expansion of Tenant’s utility route and h-frame placement.
- Notices.** Section 17 of the Agreement is modified to reflect the following addresses for the parties:

If to LANDLORD:     City of Madera  
                            205 W. 4<sup>th</sup> Street  
                            Madera, CA 93637  
  
\_\_\_\_\_  
  
\_\_\_\_\_  
  
\_\_\_\_\_

If to TENANT:        New Cingular Wireless PCS, LLC  
                            Attn: Network Real Estate Administration  
                            Re: Cell Site # CVL01150  
                            Cell Site Name: Columbus St & Riverside  
                            Dr.  
                            Fixed Asset #: 14066698  
                            1025 Lenox Park Blvd. NE, 3<sup>rd</sup> Floor  
                            Atlanta, GA 30319

With copy to:        New Cingular Wireless PCS, LLC  
                            Attn: Legal Department  
                            Re: Cell Site # CVL01150\_  
                            Cell Site Name: Columbus St. &  
                            Riverside Dr.  
                            Fixed Asset #: 14066698\_  
                            208 S. Akard Street  
                            Dallas, Texas, 75202-4206

- Other Terms and Conditions Remain.** In the event of any inconsistencies between the Agreement and this Amendment, the terms of this Amendment shall control. Except as expressly set forth in this Amendment, the Agreement otherwise is unmodified and remains in full force and effect. Each reference in the Agreement to itself shall be deemed also to refer to this Amendment.

4. **Capitalized Terms.** All capitalized terms used but not defined herein shall have the same meanings as defined in the Agreement.

**IN WITNESS WHEREOF**, the parties have caused this Amendment to be effective as of the last date written below.

**LANDLORD:**  
**City of Madera,**  
**A Municipal corporation**

**TENANT:**

New Cingular Wireless PCS, LLC,  
a Delaware limited liability company

By: AT&T Mobility Corporation  
Its: Manager

By: \_\_\_\_\_  
Print Name:  
Its:  
Date:

By: \_\_\_\_\_  
Print Name:  
Its:  
Date:

**EXHIBIT 1-A**

**DESCRIPTION OF PREMISES**

Page 1 of 33

to the First Amendment to Option and Tower Structure Agreement dated \_\_\_\_\_, 2020, by and between City of Madera, a municipal corporation, as Landlord, and New Cingular Wireless PCS, LLC, as Tenant.

**The Property is legally described as follows:**

Real property in the City of Madera, County of Madera, State of California, described as follows:

LOTS 26, 27, 28, 29, 30, 31 AND 32 OF DUSTHIMER'S SUBDIVISION OF BLOCK 11, OF DUSTHIMER'S SUBDIVISION TO THE CITY OF MADERA, ACCORDING TO MAP ENTITLED "PLAT OF BLOCK 11, DUSTHIMER'S SUBDIVISION, IN THE MILLER & LUX ADDITION, IN MADERA, CALIFORNIA FILED AND RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF MADERA, ON MARCH 12TH 1894, IN BOOK 1 OF MAPS AT PAGE 7.

APN: 003-021-008

**The Premises are described and/or depicted as follows:**

[100% Construction Drawings dated June 11, 2019, prepared by MST Architects, and consisting of thirty two (32) pages, appears on the following pages]

**Notes:**

1. This Exhibit may be replaced by a land survey and/or construction drawings of the Premises once received by Tenant.
2. Any setback of the Premises from the Property's boundaries shall be the distance required by the applicable governmental authorities.
3. Width of access road shall be the width required by the applicable governmental authorities, including police and fire departments.
4. The type, number and mounting positions and locations of antennas and transmission lines are illustrative only. Actual types, numbers and mounting positions may vary from what is shown above.

REVIEWED  
By Summer Maddux at 5:49 pm, Jun 24, 2019

REVIEWED  
By Jake Baluyut at 4:45 pm, Jun 27, 2019

REVIEWED  
By Keith Conner at 12:09 pm, 7/3/19



at&t

FA CODE: 14066698  
USID: 186198

# SITE NUMBER: CVL01150 SITE NAME: COLUMBUS ST. & RIVERSIDE DRIVE

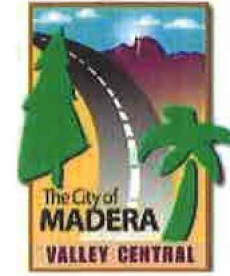
716 COLUMBIA STREET  
MADERA, CA. 93638  
JURISDICTION: CITY OF MADERA  
APN: 003-021-008

## SITE TYPE: PRE-MANUFACTURED WALK-IN CABINET / WATER TANK

Issued For:  
CVL01150  
COLUMBUS ST.  
& RIVERSIDE  
716 COLUMBIA STREET  
MADERA, CA. 93638



PROJECT DESCRIPTION	PROJECT INFORMATION	PROJECT TEAM	SHEET INDEX	REV																																		
<p>NEW SITE BUILD UNMANNED TELECOMMUNICATIONS FACILITY.</p> <ol style="list-style-type: none"> <li>BRING POWER / TELCO TO SITE LOCATION</li> <li>INSTALL AT&amp;T APPROVED PRE-MANUFACTURED WALK-IN CABINET AND ASSOCIATED INTERIOR EQUIPMENT</li> <li>INSTALL AT&amp;T ANTENNAS &amp; ASSOCIATED TOWER-MOUNTED EQUIPMENT ON AN EXISTING WATER TOWER</li> <li>INSTALL AT&amp;T GENERATOR W/ FUEL TANK</li> <li>EXISTING CITY OF MADERA ANTENNAS ON WATER TANK CATWALK/RIM TO BE REMOVED BY AT&amp;T</li> <li>EXISTING WIMAX ANTENNAS AND FRAMES ON TOP OF THE WATER TANK TO BE REMOVED BY AT&amp;T</li> <li>INSTALL CITY OF MADERA ANTENNAS AND POWERBEAM DISHES.</li> </ol>	<p><b>PROPERTY INFORMATION:</b> SITE NAME: COLUMBUS ST. AND RIVERSIDE DRIVE</p> <p><b>PROPERTY OWNER:</b> CITY OF MADERA 205 W. 4TH STREET MADERA, CA. 93637</p> <p>SITE NUMBER: CVL01150</p> <p>SITE ADDRESS: 716 COLUMBIA STREET MADERA, CA. 93638</p> <p>A.P.N. NUMBER: 003-021-008</p> <p>CURRENT ZONING: PF (PUBLIC FACILITIES)</p> <p>JURISDICTION: CITY OF MADERA</p>	<p><b>APPLICANT / LESSEE:</b> AT&amp;T 2600 CAMINO RAMON, 4W850 N SAN RAMON, CA 94583</p> <p><b>RF ENGINEER:</b> AT&amp;T 5555 E. OLIVE AVE. FRESNO, CA 93727 CONTACT: JAKE BALUYUT EMAIL: jbaluyut@att.com (559) 454-5694</p> <p><b>CONSTRUCTION MANGER:</b> BECHTEL 2603 CAMINO RAMON SUITE #149 SAN RAMON, CA 94583 CONTACT: KEITH CONNER EMAIL: kconner@bechtel.com PH: (480) 306-3801</p>	<p><b>ARCHITECT / ENGINEER:</b> MST ARCHITECTS INC. 1520 RIVER PARK DRIVE SACRAMENTO, CA 95815 CONTACT: MANUEL S. TSIHLAS EMAIL: manuel@mstarchitects.com PH: (916) 567-9630</p> <p><b>ZONING MANAGER:</b> COMPLETE WIRELESS CONSULTING, INC. 2009 V STREET SACRAMENTO, CA 95818 CONTACT: GERIE JOHNSON EMAIL: gjohnson@completewireless.net PH: 916-709-2057</p> <p><b>LEASING MANAGER:</b> COMPLETE WIRELESS CONSULTING, INC. 2009 V STREET SACRAMENTO, CA 95818 CONTACT: CHRISTOPHER BRINGGOLD EMAIL: CBringgold@completewireless.net PH: (916) 313-3730</p>	<p>T-1 TITLE SHEET #</p> <p>T-2 CONDITIONS OF APPROVAL #</p> <p>GN-1 GENERAL NOTES, ABBREVIATIONS, &amp; NOTES #</p> <p>GN-2 SITE SIGNAGE #</p> <p>GN-3 BATTERY SPECIFICATIONS #</p> <p>C-1 SURVEY SHEET #</p> <p>A-1.1 SITE PLAN #</p> <p>A-1.2 ENLARGED SITE PLAN #</p> <p>A-2.1 EQUIPMENT AREA PLAN #</p> <p>A-3.1 ANTENNA PLANS &amp; SCHEDULE #</p> <p>A-3.2 ANTENNA PLAN #</p> <p>A-3.3 ANTENNA PLANS #</p> <p>A-3.4 ANTENNA DETAILS #</p> <p>A-3.5 ANTENNA DETAILS #</p> <p>A-3.6 ANTENNA DETAILS #</p> <p>A-4.1 PROPOSED ELEVATIONS #</p> <p>A-4.2 PROPOSED ELEVATIONS #</p> <p>A-4.3 PROPOSED ELEVATIONS #</p> <p>A-5.0 CONSTRUCTION DETAILS - EQUIPMENT #</p> <p>A-5.1 CONSTRUCTION DETAILS - EQUIPMENT #</p> <p>A-5.2 CONSTRUCTION DETAILS - GENERATOR #</p> <p>S-1 STRUCTURAL DETAILS #</p> <p>S-2 STRUCTURAL DETAILS #</p> <p>S-3 STRUCTURAL DETAILS #</p> <p>E-1 GENERAL ELECTRICAL NOTES #</p> <p>E-2 UTILITY SITE PLAN #</p> <p>E-3 POWER SINGLE LINE DIAGRAM #</p> <p>E-4 POWER PANEL SCHEDULE &amp; DETAILS #</p> <p>G-1 SINGLE LINE DIAGRAM - NOTES AND LEGENDS #</p> <p>G-2 GROUNDING DETAILS #</p> <p>G-3 GROUNDING DETAILS #</p> <p>S-1 WATER TANK ELEVATION #</p>	<p>AT&amp;T SITE NO: CVL01150</p> <p>PROJECT NO: 162.2188</p> <p>DRAWN BY: MWS</p> <p>CHECKED BY: SV</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>Δ</td> <td>06/11/19</td> <td>100% CD REV 4</td> </tr> <tr> <td>Δ</td> <td>05/24/19</td> <td>100% CD REV 3</td> </tr> <tr> <td>Δ</td> <td>05/07/19</td> <td>100% CD REV 2</td> </tr> <tr> <td>Δ</td> <td>02/08/19</td> <td>100% CD PC1</td> </tr> <tr> <td></td> <td>11/29/18</td> <td>100% CD</td> </tr> <tr> <td></td> <td>08/07/18</td> <td>90% CD</td> </tr> <tr> <td></td> <td>07/12/18</td> <td>100% ZD REV 2</td> </tr> <tr> <td></td> <td>06/15/18</td> <td>100% ZD REV 1</td> </tr> <tr> <td></td> <td>05/22/18</td> <td>100% ZD</td> </tr> <tr> <td></td> <td>04/27/18</td> <td>90% ZD</td> </tr> </tbody> </table> <p>Licensee: </p> <p>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.</p> <p>Architect:  1520 River Park Drive Sacramento, California 95815</p> <p>SHEET TITLE: <b>TITLE SHEET</b></p> <p>SHEET NUMBER: <b>T-1</b></p>	REV	DATE	DESCRIPTION	Δ	06/11/19	100% CD REV 4	Δ	05/24/19	100% CD REV 3	Δ	05/07/19	100% CD REV 2	Δ	02/08/19	100% CD PC1		11/29/18	100% CD		08/07/18	90% CD		07/12/18	100% ZD REV 2		06/15/18	100% ZD REV 1		05/22/18	100% ZD		04/27/18	90% ZD
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<b>CODE COMPLIANCE</b>	<b>VICINITY MAP</b>	<b>DIRECTIONS FROM AT&amp;T</b>																																				
<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. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <ol style="list-style-type: none"> <li>2016 CALIFORNIA ADMINISTRATIVE CODE, CHAPTER 10, PART 1, TITLE 24 CODE OF REGULATIONS</li> <li>2016 CALIFORNIA BUILDING CODE (CBC) WITH CALIFORNIA AMENDMENTS, BASED ON THE 2012 IBC (PART 2, VOL 1-2)</li> <li>2016 CALIFORNIA RESIDENTIAL CODE (CRC) WITH APPENDIX H, PATIO COVERS, BASED ON THE 2012 IRC (PART 2.5)</li> <li>2016 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CALGREEN) (PART 11) [AFFECTED ENERGY PROVISIONS ONLY]</li> <li>2016 CALIFORNIA FIRE CODE (CFC), BASED ON THE 2012 IFC, WITH CALIFORNIA AMENDMENTS (PART 9)</li> <li>2016 CALIFORNIA MECHANICAL CODE (CMC), BASED ON THE 2012 UMC (PART 4)</li> <li>2016 CALIFORNIA PLUMBING CODE (CPC), BASED ON THE 2012 UPC (PART 5)</li> <li>2016 CALIFORNIA ELECTRICAL CODE (CEC) WITH CALIFORNIA AMENDMENTS, BASED ON THE 2011 NEC (PART 3)</li> <li>2016 CALIFORNIA ENERGY CODE (CEC)</li> <li>ANSI / EIA-TIA-222-G</li> <li>2015 NFPA 101, LIFE SAFETY CODE</li> <li>2016 NFPA 72, NATIONAL FIRE ALARM CODE</li> <li>2016 NFPA 13, FIRE SPRINKLER CODE</li> </ol>		<p>DIRECTIONS FROM AT&amp;T'S OFFICE AT 2600 CAMINO RAMON, SAN RAMON, CA.</p> <ol style="list-style-type: none"> <li>HEAD EAST</li> <li>TURN RIGHT TOWARD CAMINO RAMON</li> <li>TURN RIGHT ONTO CAMINO RAMON</li> <li>TURN RIGHT ONTO BOLLINGER CANYON RD</li> <li>MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE</li> <li>TAKE EXIT 30A TO MERGE ONTO I-580 E TOWARD STOCKTON</li> <li>KEEP LEFT TO STAY ON I-580 E</li> <li>CONTINUE ON I-205 E, FOLLOW SIGNS FOR INTERSTATE 205/TRACY/STOCKTON</li> <li>MERGE ONTO I-5 N</li> <li>TAKE EXIT 461 FOR CA-120 TOWARD MANTECA/SONORA</li> <li>CONTINUE ONTO CA-120 E</li> <li>TAKE EXIT 6 TO MERGE ONTO CA-99 S TOWARD MODESTO/FRESNO</li> <li>TAKE EXIT 155 FOR CLEVELAND AVE</li> <li>TURN LEFT ONTO AVE 15 1/2/W CLEVELAND AVE (SIGNS FOR MILLERTON LAKE)</li> <li>CONTINUE TO FOLLOW W CLEVELAND AVE</li> <li>TURN RIGHT TO STAY ON W CLEVELAND AVE</li> <li>KEEP RIGHT TO CONTINUE ON SHARON BLVD</li> <li>SHARON BLVD TURNS SLIGHTLY LEFT AND BECOMES RIVERSIDE DR</li> <li>TURN LEFT ONTO COLUMBIA ST</li> <li>DESTINATION WILL BE ON THE RIGHT</li> </ol>																																				
<b>OCCUPANCY AND CONSTRUCTION TYPE</b>	<b>SPECIAL INSPECTIONS PER 2016 CBC SECTION 1704 ARE REQUIRED FOR THE FOLLOWING:</b>	<b>APPROVALS</b>																																				
<p>OCCUPANCY : S-2 (UNMANNED TELECOMMUNICATIONS FACILITY), U (TOWER)</p> <p>CONSTRUCTION TYPE: V-B</p> <p><b>HANDICAP REQUIREMENTS</b></p> <p>FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY ACCESS AND REQUIREMENTS ARE NOT REQUIRED, IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, PART 2, TITLE 24, SECTION 1103B.1, EXCEPTION 1 &amp; SECTION 1134B.2.1, EXCEPTION 4.</p>	<ol style="list-style-type: none"> <li>ANCHOR BOLTS WET-SET INTO CONCRETE</li> <li>EXPANSION BOLTS INTO EXISTING CONCRETE</li> <li>HIGH STRENGTH BOLTING</li> <li>WELDING</li> <li>STEEL REINFORCEMENT / REBAR PLACEMENT</li> <li>STEEL MATERIAL VERIFICATION</li> <li>SOILS ENGINEER TO INSPECT DRILLED PIERS</li> </ol> <p><b>STRUCTURAL DESIGN CRITERIA:</b></p> <ol style="list-style-type: none"> <li>SOIL SITE CLASSIFICATION: D</li> <li>SOIL BEARING CAPACITY: SLABS: 1000 PSF</li> <li>SEISMIC IMPORTANCE FACTOR: II</li> <li>SITE COORDINATES: N36.9701° W120.0658° NAD83</li> <li>SPECTRAL RESPONSE ACCELERATIONS: S<sub>s</sub> = 0.658g S<sub>1</sub> = 0.265g</li> <li>SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.559g SD1 = 0.331g</li> <li>SEISMIC DESIGN CATEGORY: D</li> </ol>	<p>APPROVED BY: _____ INITIALS: _____ DATE: _____</p> <p>AT&amp;T: _____</p> <p>VENDOR: _____</p> <p>R.F.: _____</p> <p>LEASING / LANDLORD: _____</p> <p>ZONING: _____</p> <p>CONSTRUCTION: _____</p> <p>POWER / TELCO: _____</p> <p>PG&amp;E: _____</p>																																				
			<b>GENERAL CONTRACTOR NOTES</b>																																			
			DO NOT SCALE DRAWINGS																																			
			THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 24" x 36". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOBSITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.																																			
			 800-227-2600 Call 2 Full Working Days In Advance																																			



CITY OF MADERA PLANNING DEPARTMENT

August 1, 2018

Gerie Johnson
Complete Wireless Consulting, Inc.
2009 V Street
Sacramento, CA 95818
gjohnson@completewireless.net

RE: Site Plan Review 2018-24 - Water Tower Telecommunications Equipment

Dear Gerie Johnson:

The City of Madera's Site Plan Review process has been conducted pursuant to Madera Municipal Code Article 10-3.4.01 and you are hereby notified that:

Site Plan Review 2018-24, to allow for a new 225 square feet lease area with associated ground-mounted telecommunications equipment and tower-mounted antennas to utilize the City's water tower as a cell tower on property located at the southwest corner of the intersection of Columbia Street and East South Street (716 Columbia Street), in the PF (Public Facilities) Zone District, with a P&SP (Public and Semi-Public) General Plan designation (APN: 003-021-008) is hereby approved with the following findings and conditions of approval.

FINDINGS:

- The project has been determined to be categorically exempt under the California Environmental Quality Act (CEQA) guidelines, Section 15301 (Existing Facilities).
- The facilities and improvements, as modified with this approval, are arranged to avoid traffic congestion and adverse effects on surrounding properties.
- The plans are consistent with established legislative policies relating to traffic safety, street improvements, accessibility, and environmental quality.
- As conditioned, the use is consistent with the Madera General Plan and zoning on the site.

Applicant: AT&T Mobility
Telecommunications Facility
Site: (Water Tank) - APN 003-021-008

CONDITIONS OF APPROVAL

General Conditions

- 1. All conditions of approval shall be the sole financial responsibility of the applicant/owner, except where specifically noted in the conditions or mandated by statutes.
2. Project approval is conditioned upon acceptance of the conditions of approval contained herein, as evidenced by the applicant's signature thereon within thirty days of the date of site plan approval. Please note this site plan review approval (SPR 2018-24) will expire one year from date of issuance, unless you take positive action on the project as provided in the Municipal Code, or take the required action to extend the approval before expiration date (Municipal Code Section 10-3.4.0114, Lapse of Site Plan Approval).
3. Any proposed future modifications to the site involving, but not limited to, building exteriors, parking/loading areas, fence/walls, new buildings or landscaping shall require an amendment to Site Plan Review 2018-24.
4. It shall be the responsibility of the property owner and management to ensure that any required permits, inspections, and approvals from any regulatory agency shall be obtained from the concerned agency prior to a final building permit and/or establishment of the use.
5. The project shall be developed in accordance with the site plan, as reviewed and approved with the site plan review. Minor modifications to the Site Plan necessary to meet regulatory or engineering constraints may be made with approval from the Planning Manager. Please see Site Plans attached as "Exhibit A".

Building Department

- 6. Site development shall be consistent with the approved site plan. Building permits shall be obtained prior to starting work. The uses of all activity areas shall be identified on plans submitted for issuance of building permit(s).

Fire Department

- 7. A minimum of one 3A40BC-rated fire extinguisher shall be required.
8. A building permit shall be required for all construction.
9. A key box shall be required. If there is an existing key box, new keys shall be required for the existing box if the locks are altered.

Planning Department

General

- 10. Vandalism and graffiti shall be corrected at all times per the Madera Municipal Code.
11. The property owner, operator, manager shall keep the property clear of all trash, rubbish and debris at all times. Dumping of refuse shall be restricted to the dumpster and refuse containers owned by the property owner.

- 12. The applicant shall comply with all federal, state and local laws. Material violation of any of those laws concerning the use will be cause for revocation of these permits.

Site Plan Review

- 13. Site Plan Review (SPR) 2018-24 allows for the following improvements, subject to the applicable conditions of approval: and Site Plans attached as "Exhibit A".
- Installation of new telco box with ciena box above
- Installation of service meter and disconnect
- Installation of 15 kw diesel generator
- Installation of generator pull box
- Installation of power plant rack, radio rack and transport rack inside walk-in cabinet
- Installation of an ice bridge
- Installation of cam-lock generator interface
- Installation of 30 circuit load center and automatic transfer switch
- Installation of new chain link fence connecting to existing chain link fence
- Installation of vertiv walk-in cabinet
- Installation of new tower-mounted antennas

- 14. Alteration and/or expansion of the ground-mounted telecommunications equipment may require, at a minimum, an amendment to SPR 2018-24.

Landscaping

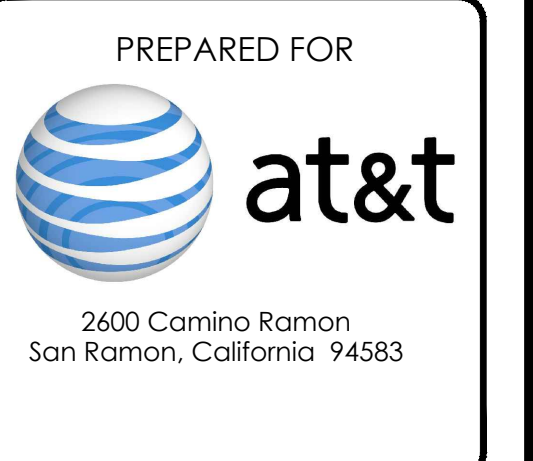
- 15. The property owner shall maintain all landscaping in a healthy and well-manicured appearance. This includes, but is not limited to, ensuring properly operating irrigation equipment at all times, trimming and pruning of trees and shrubs, and replacing dead or unhealthy vegetation with drought-tolerant plantings.

Please indicate acknowledgment of this letter and acceptance of the conditions by signing and returning the attachment to me. The approval does not take effect until acknowledgment and acceptance of conditions of approval, signed and dated within thirty (30) days of this action is received in this office. In addition, plans cannot be accepted for checking and Building Permits will not be issued until such acceptance is received. Please do not call for final inspection of the project until all actions required by conditions of approval are complete.

If you have questions regarding the action on your application or the further processing of your request, please do not hesitate to call me at (559) 661-5434.

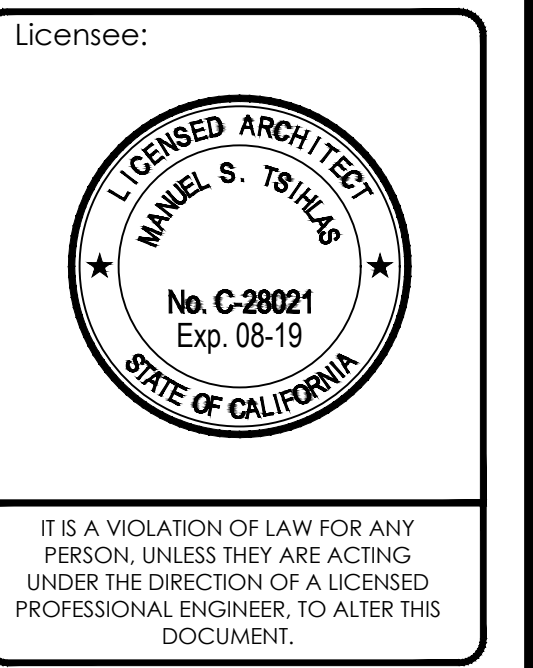
Cordially,
Robert Holt
Assistant Planner

Issued For:
CVL01150
COLUMBUS ST.
& RIVERSIDE
716 COLUMBIA STREET
MADERA, CA. 93638



AT&T SITE NO: CVL01150
PROJECT NO: 162.2188
DRAWN BY: MWS
CHECKED BY: SV

Table with 3 columns: REV, DATE, DESCRIPTION. Contains revision history from 06/11/19 to 04/27/18.




SHEET TITLE:
CONDITIONS OF
APPROVAL

SHEET NUMBER:
T-2







This Site Operated by:  
**AT&T MOBILITY**  
 2600 CAMINO RAMON,  
 SAN RAMON, CA 94583  
 IN CASE OF FIRE AND THE NEED FOR SHUTDOWN  
 TO DEACTIVATE ANTENNAS CALL THE  
 FOLLOWING NUMBER:  
 For 24 Hour Emergency Contact and Access Please Call:  
 (800)832-6662

Site Address: \_\_\_\_\_ Reference Site#: \_\_\_\_\_

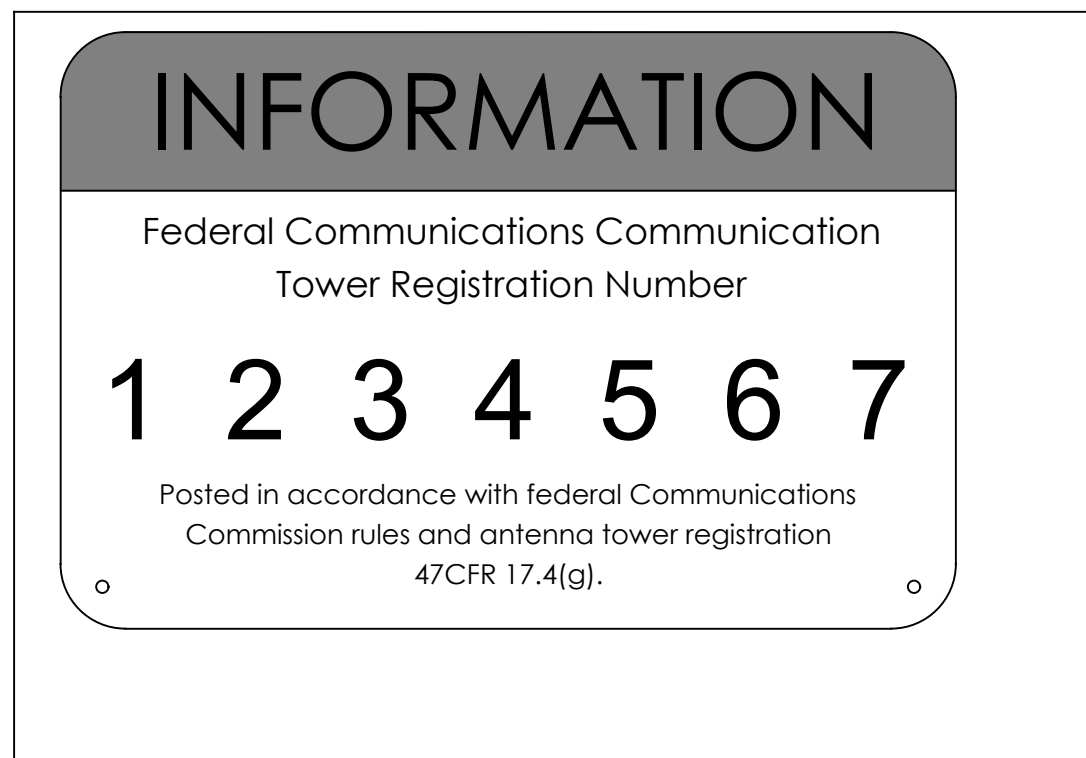
20 FENCED COMPOUND SIGNAGE  
N.T.S.



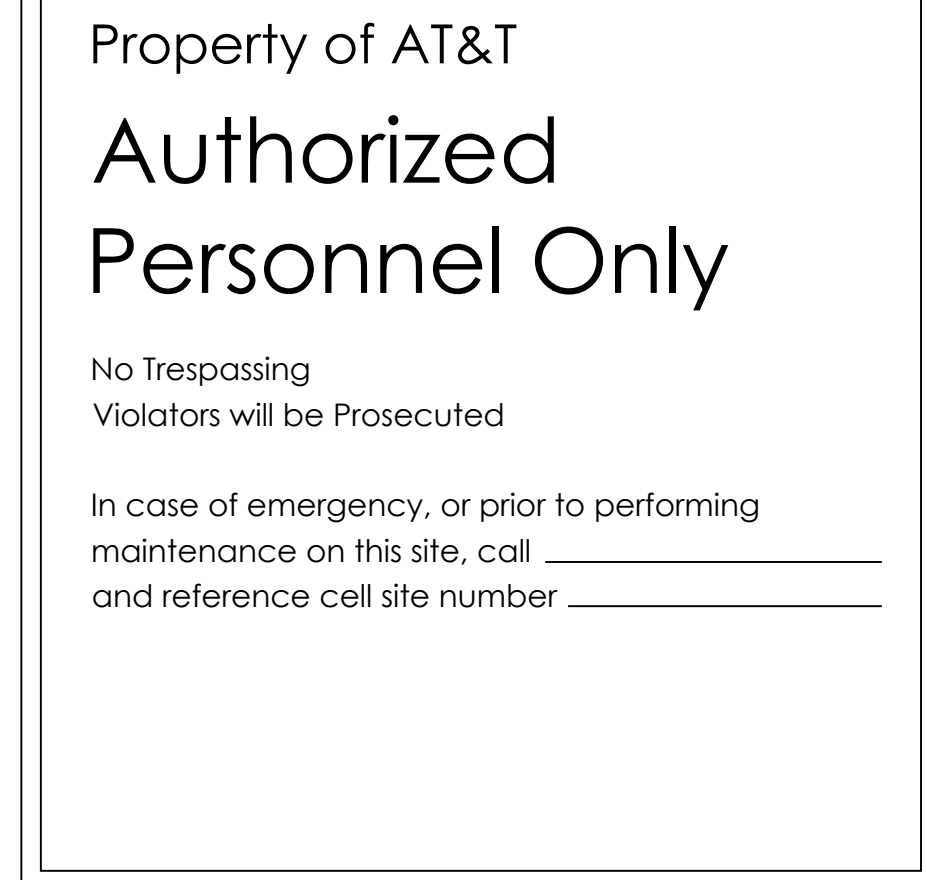
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N.T.S.



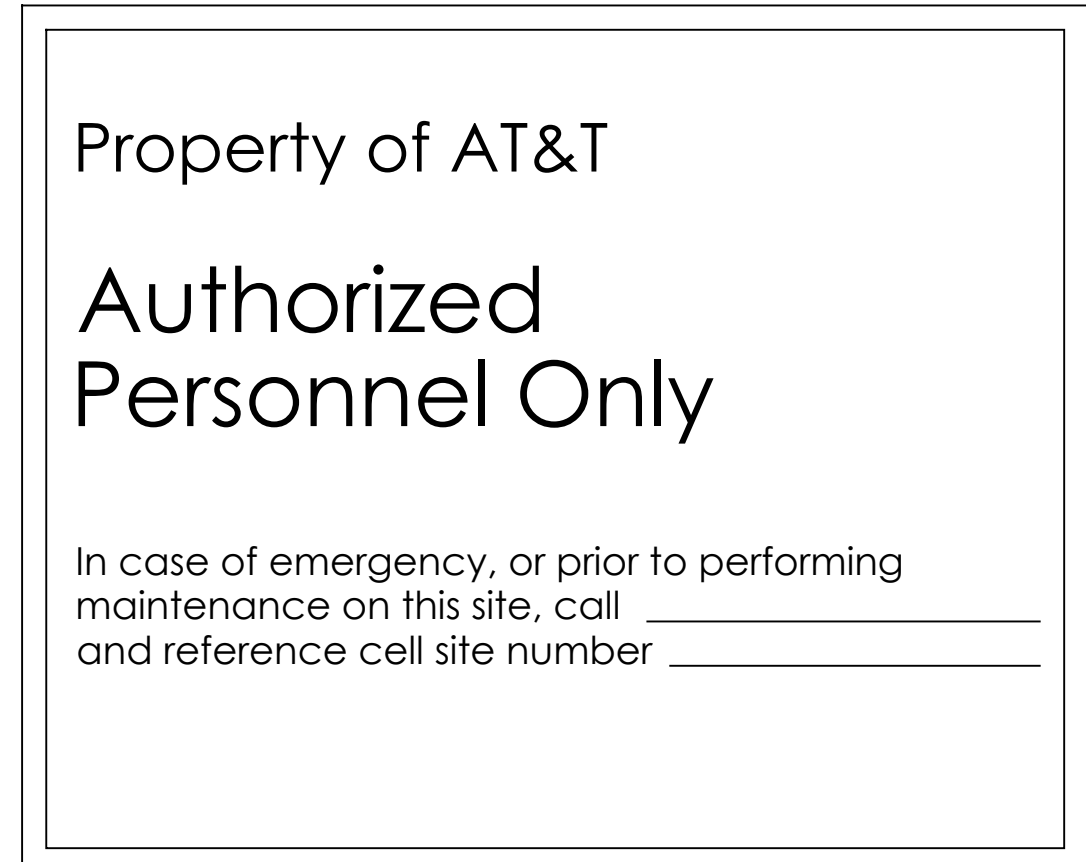
19 DOOR / EQUIPMENT SIGN  
N.T.S.



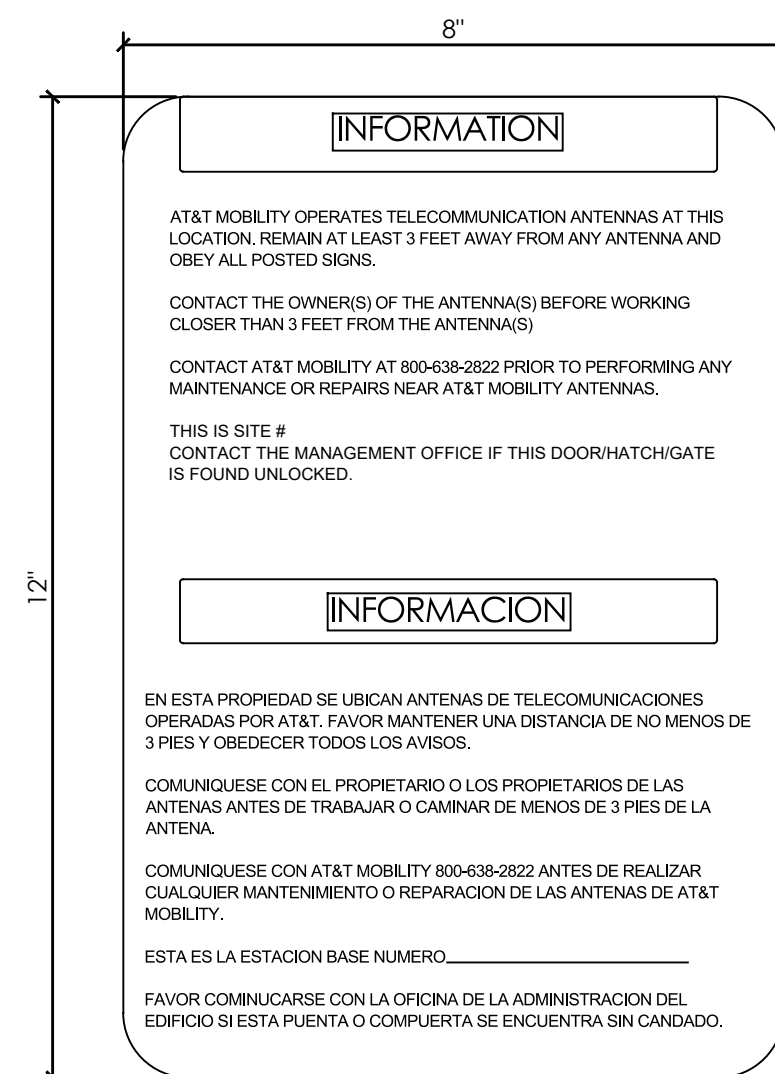
15 FCC ASR SIGNAGE  
N.T.S.



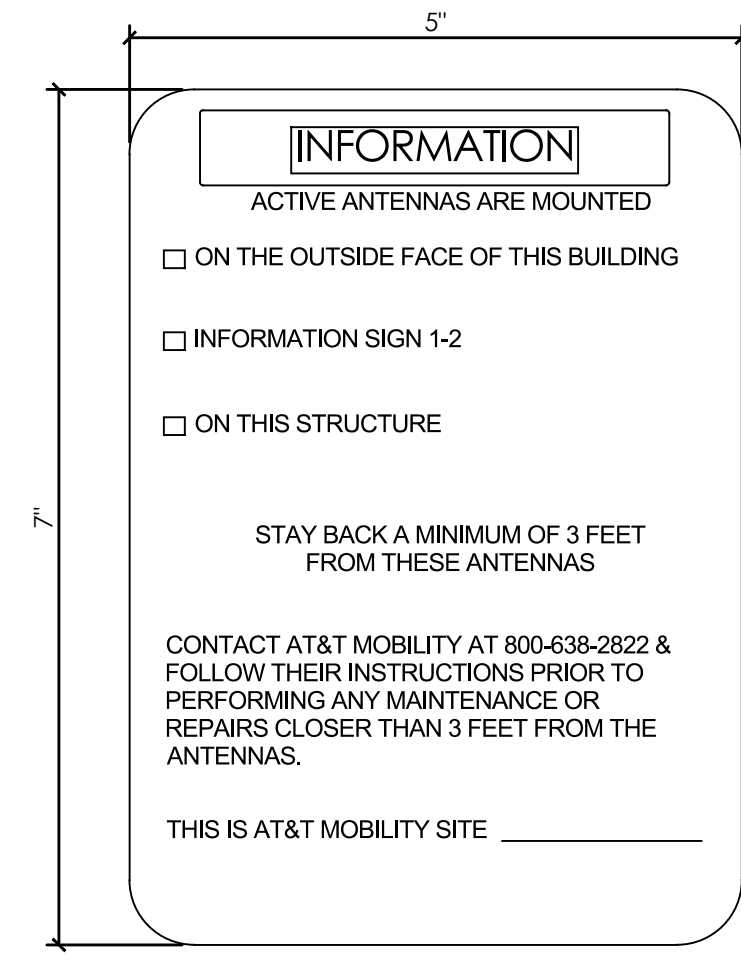
14 GATE SIGNAGE  
N.T.S.



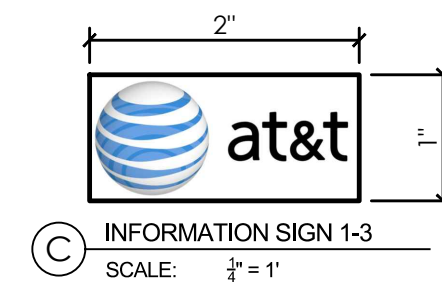
13 SHELTER / CABINET DOORS SIGNAGE  
N.T.S.



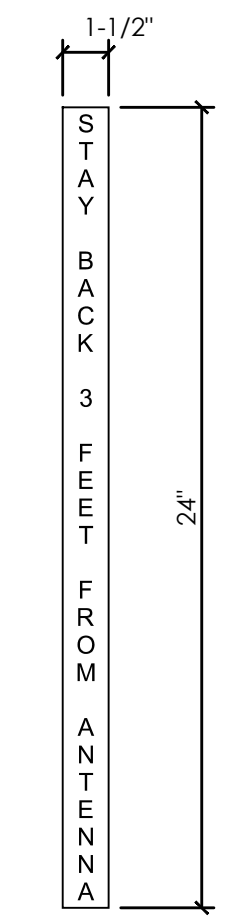
A INFORMATION SIGN 1-1  
SCALE: 3/4" = 1'



B INFORMATION SIGN 1-2  
SCALE: 3/4" = 1'



C INFORMATION SIGN 1-3  
SCALE: 3/4" = 1'



D INFORMATION SIGN 1-4  
SCALE: 3/4" = 1'

1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE W/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.

2. FABRICATION:  
 \*SIGN 1-1: ENTRANCE DOOR, SEE DETAIL 1A, THIS SHEET

SIGN 1 IS TO BE MADE ON THE 50 MIL ALUMINUM SHEETING (SIZE 8 INCHES BY 12 INCHES) w/ FOUR (4) 1/2 INCH MOUNTING HOLES, ONE EACH CORNER OF THE SIGN FOR MOUNTING w/ HARDWARE w/ TIE WRAPS. THE MAIN BACKGROUND COLOR IS TO BE WHITE FRONT & BACK w/ BLACK LETTERING.

THE INFORMATION BAND SHALL BE 1.2 INCH SOLID GREEN BAND w. 0.5 INCH HIGH BLACK LETTERING. THE BODY TEXT SHALL BE IN BLACK LETTERING w/0.2 INCH HIGH LETTERS. THE REF LINE SHALL BE IN 1/2 INCH LETTERS.

THE PLACEMENT OF TEXT SHALL BE DONE IN A MANNER THAT WILL PERMIT EASY READING FROM A DISTANCE OF APPROXIMATELY 6 FEET IN FRONT OF THE SIGN.

ALL PAINT WILL BE BAKED w/ENAMEL w/ UV PROTECTIVE COATING OVER THE FACE OF THE SIGN.

\*SIGN 1-2: POLE, SEE DETAIL 1B, THIS SHEET

SIGN 2 MUST BE A NON METALLIC LABEL w/ AN ADHESIVE BACKING. THE LABEL SHALL BE MADE USING VINYL OR SIMILAR WEATHERPROOF MATERIAL. THE LABEL SHALL BE APPROXIMATELY 5X7 INCHES w/ A WHITE BACKGROUND AND BLACK LETTERING. THE GREEN BAND SHALL BE 1.375 INCH IN HEIGHT & THE LETTERING SHALL BE BLACK w/ 0.75 INCH HIGH LETTERS. THE TEXT LETTERING SHALL BE BLACK w/ 1/2 INCH HIGH LETTERS. UV PROTECTION SHALL BE PLACED OVER THE FRONT OF THE LABEL.

\*SIGN 1-3: BACK OF ANTENNAS, SEE DETAIL 1C & 3, THIS SHEET

\*SIGN 3 IS A 1 INCH X 2 INCH PANEL THAT CAN BE APPLIED TO THE BACK OR SIDE OF AN ANTENNA TO IDENTIFY IT AS AN AT&T ANTENNA.

\*SIGN 1-4: SIDE OF ANTENNAS, SEE DETAIL 1D & 3, THIS SHEET

SIGN 4 IS MADE FROM TRANSPARENT MATERIAL 1-1/2 INCHES WIDE & 24 INCHES LONG. THE LETTERING IS TO BE BLACK w/ 1/2 INCH LETTERING IN A VERTICAL COLUMN. THE SPACING BETWEEN WORDS MUST BE SUCH THAT IT IS EASILY READ & FILLS THE LENGTH OF THE SIGN.

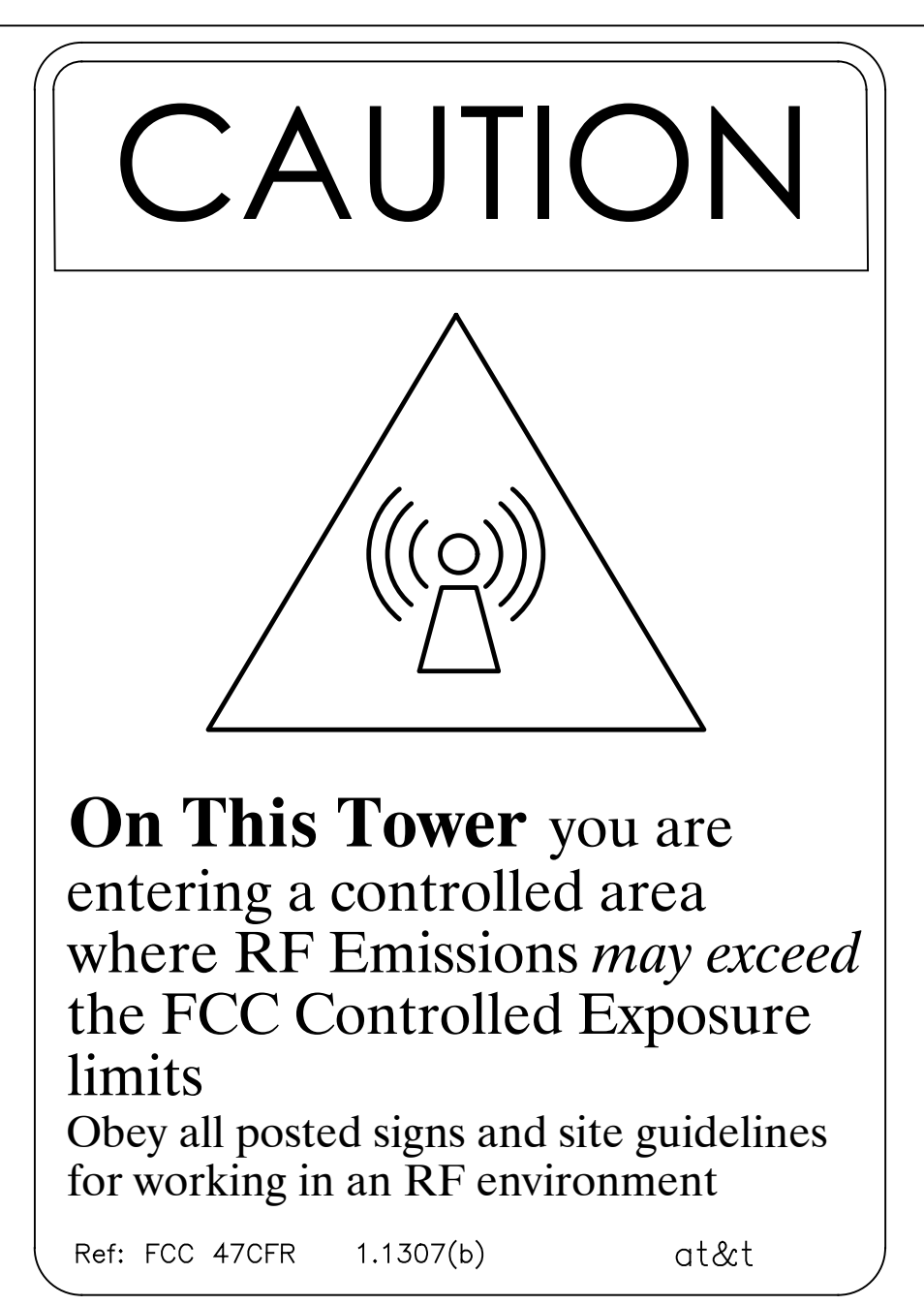
11 INFORMATION SIGNAGE  
N.T.S.

NOTE:  
 1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE W/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.

2. CONTRACTOR SHALL CONTACT AT&T R-RFSC FOR INFORMATION ON MPE LEVELS AND INSTRUCTIONS ON LEVEL AND LOCATION OF SIGNAGE.

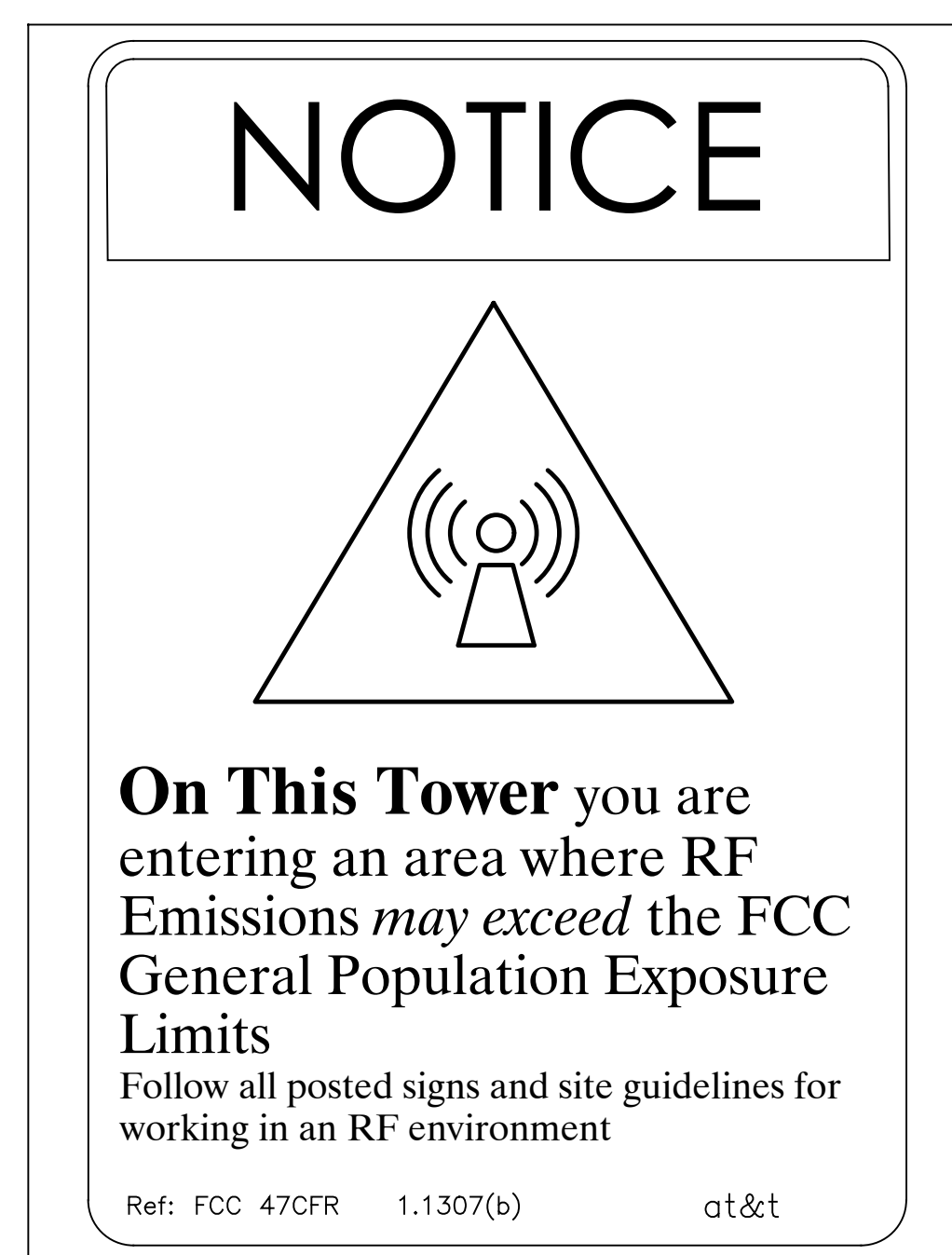


9 CAUTION AND WARNING SIGN  
N.T.S.




- SIGNAGE AND STRIPING INFORMATION**
- THE FOLLOWING INFORMATION IS A GUIDELINE w/ RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITES EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONFLICT w/ ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.
  - THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1mW/cm<sup>2</sup> AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5mW/cm<sup>2</sup>
  - IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR WORKING PLATFORM LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.
  - IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
  - IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES & STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
  - ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR Y THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED IN PLAIN SIGHT AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES. THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY w/ ANSI C55.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS SHALL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
  - PHOTOS OF ALL STRIPING, BARRICADES & SIGNAGE SHALL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE w/ FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK OR INTERFERE w/ THE OPERATION OF THE ANTENNAS. BARRICADES SHALL BE PAINTED w/ FADE RESTRAINT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED, & SHALL PROVIDE THE AT&T CONSTRUCTION PROJECT MANAGER w/ A DETAILED SHOP DRAWING OF EACH BARRICADE. UPON CONSTRUCTION COMPLETION.

3 GENERAL NOTES  
N.T.S.



1 NOTICE SIGN  
N.T.S.

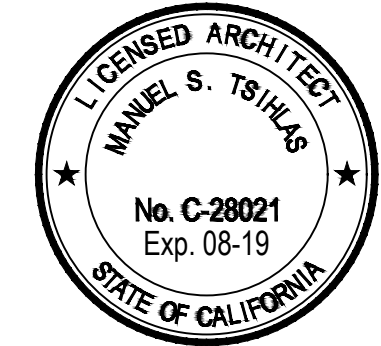
Issued For:  
**CVL01150**  
**COLUMBUS ST.**  
**& RIVERSIDE**  
 716 COLUMBIA STREET  
 MADERA, CA. 93638

PREPARED FOR  
  
 2600 Camino Ramon  
 San Ramon, California 94583

Vendor:  
  
**COMPLETE**  
 Wireless Consulting, Inc.

AT&T SITE NO: CVL01150  
 PROJECT NO: 162.2188  
 DRAWN BY: MWS  
 CHECKED BY: SST

REV	DATE	DESCRIPTION
Δ	06/11/19	100% CD REV4
Δ	05/24/19	100% CD REV3
Δ	05/07/19	100% CD REV2
Δ	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

Licensee:  
  
 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.

Architect:  
  
**MST ARCHITECTS**  
 1520 River Park Drive  
 Sacramento, California 95815

SHEET TITLE:  
**SITE SIGNAGE**

SHEET NUMBER:  
**GN-2**



EAST SOUTH STREET

60.0' PUBLIC RIGHT OF WAY

DATE OF SURVEY: 04-16-18

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, RCE 14803

LOCATED IN THE COUNTY OF MADERA, STATE OF CALIFORNIA BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

N.G.V.D. 1929 CORRECTION: SUBTRACT 2.31' FROM ELEVATIONS SHOWN.

FEMA FIRM: FLOOD ZONE X PER FIRM 06039C1155E, DATED 09-26-2008.

CONTOUR INTERVAL: N.A.

ASSESSOR'S PARCEL NUMBER: 003-021-008

LANDLORD(S): CITY OF MADERA 205 W. 4TH STREET MADERA, CA 93637

Project Name: CVL01150 Columbus St. & Riverside Drive

Project Site Location: 716 Columbia Street Madera, CA 93638 Madera County

Date of Observation: 04-16-18

Equipment/Procedure Used to Obtain Coordinates: Trimble Pathfinder Geo XT post processed with Pathfinder Office software.

Type of Antenna Mount: Existing Water Tank

Coordinates

Latitude: N 36°58'12.24" (NAD83) N 36°58'12.43" (NAD27) Longitude: W 120°03'56.86" (NAD83) W 120°06'53.27" (NAD27)

Latitude: N 36.970067° (NAD83) N 36.970119° (NAD27) Longitude: W 120.065794° (NAD83) W 120.114797° (NAD27)

ELEVATION of Ground at Structure (NAVD88) 270.6' AMSL Height of Structure: 146.1' AGL Overall Height: (Omni Antenna) 152.1' AGL

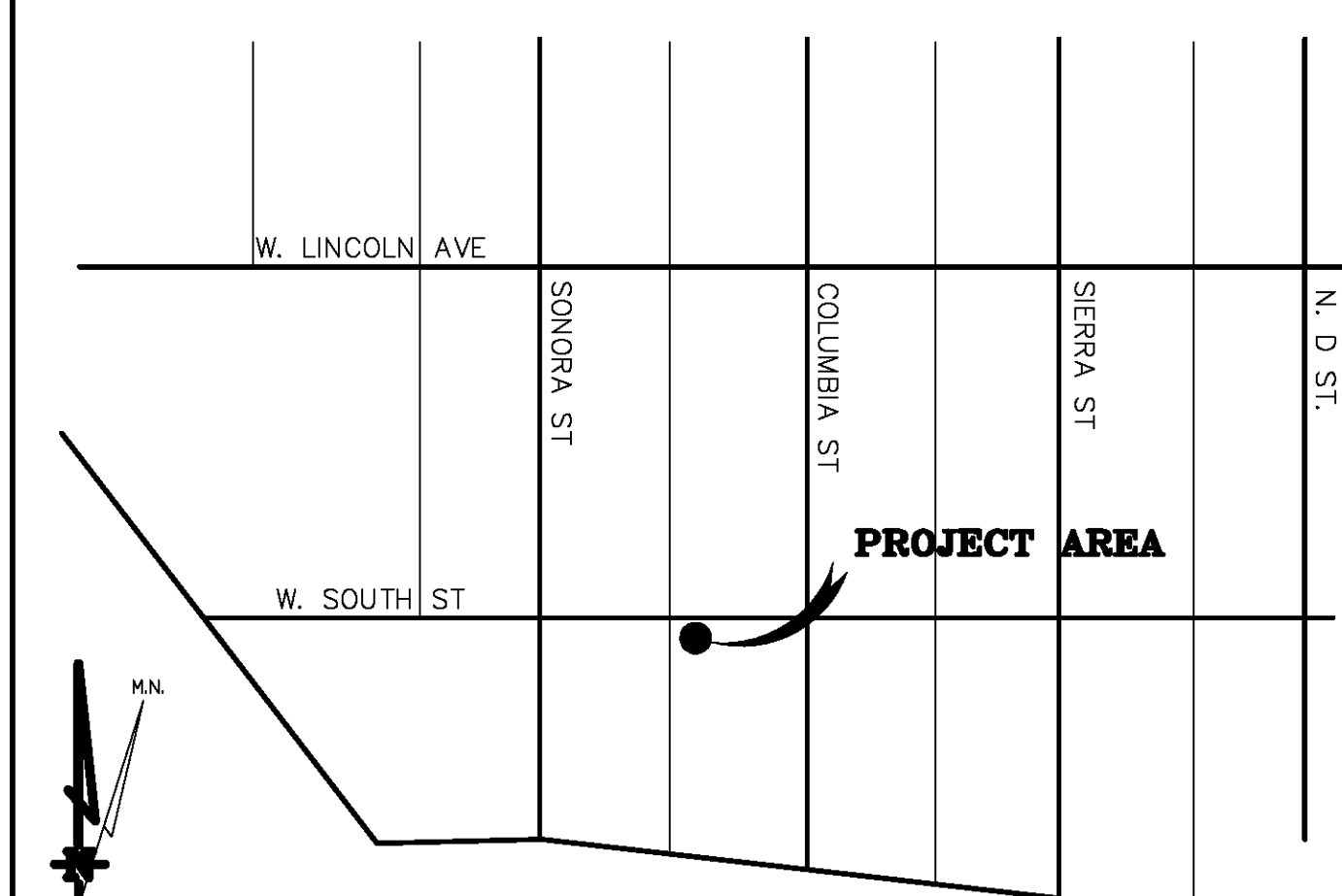
CVL01150 Columbus St. & Riverside Drive Lease Area Description

All that certain lease area being a portion of Lots 26-32 as shown on the "Plat of Block 11 Dusthimer's Subdivision in the Miller and Lux Addition in Madera, Cal." filed in Book 1 of Maps, Page 7 of Madera County, California Records, being more particularly described as follows:

Commencing at the Northwest corner of the aforementioned Lot 32; thence along the West thereof South 00°13'00" West, 37.38 feet; thence leaving said West boundary South 89°47'00" East, 10.00 feet to the True Point of Beginning; thence from said point of beginning South 89°47'00" East, 9.00 feet; thence South 00°13'00" West, 25.00 feet; thence North 89°47'00" West, 9.00 feet; thence North 00°13'00" East, 25.00 feet to the point of beginning.

Together with easement for access and utility purposes, twenty feet in width, the centerline of which is described as follows: Beginning at a point on the West boundary of the above described lease area which bears South 00°13'00" West, 10.00 feet from the Northwest corner thereof; thence from said point of beginning North 89°47'00" West, 10.0 feet more or less to the public right of way.

Together with easement for access and utility purposes, six feet in width, from the above described lease area, to the existing water tank now constructed on the aforementioned Lots 26-32; thence on said water tank as necessary for the placement of cellular antennas and appurtenances.



VICINITY MAP

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF GEIL ENGINEERING AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND CARRIER FOR WHICH THEY ARE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM GEIL ENGINEERING. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH GEIL ENGINEERING WITHOUT PREJUDICE AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

Table with columns: DEPT, APPROVED, DATE, ARC, RE, INT, EELIN, OPS, EEOUIT

GEIL ENGINEERING ENGINEERING • SURVEYING • PLANNING 1526 HIGH STREET AUBURN, CALIFORNIA 95603 Phone: (530) 828-0400

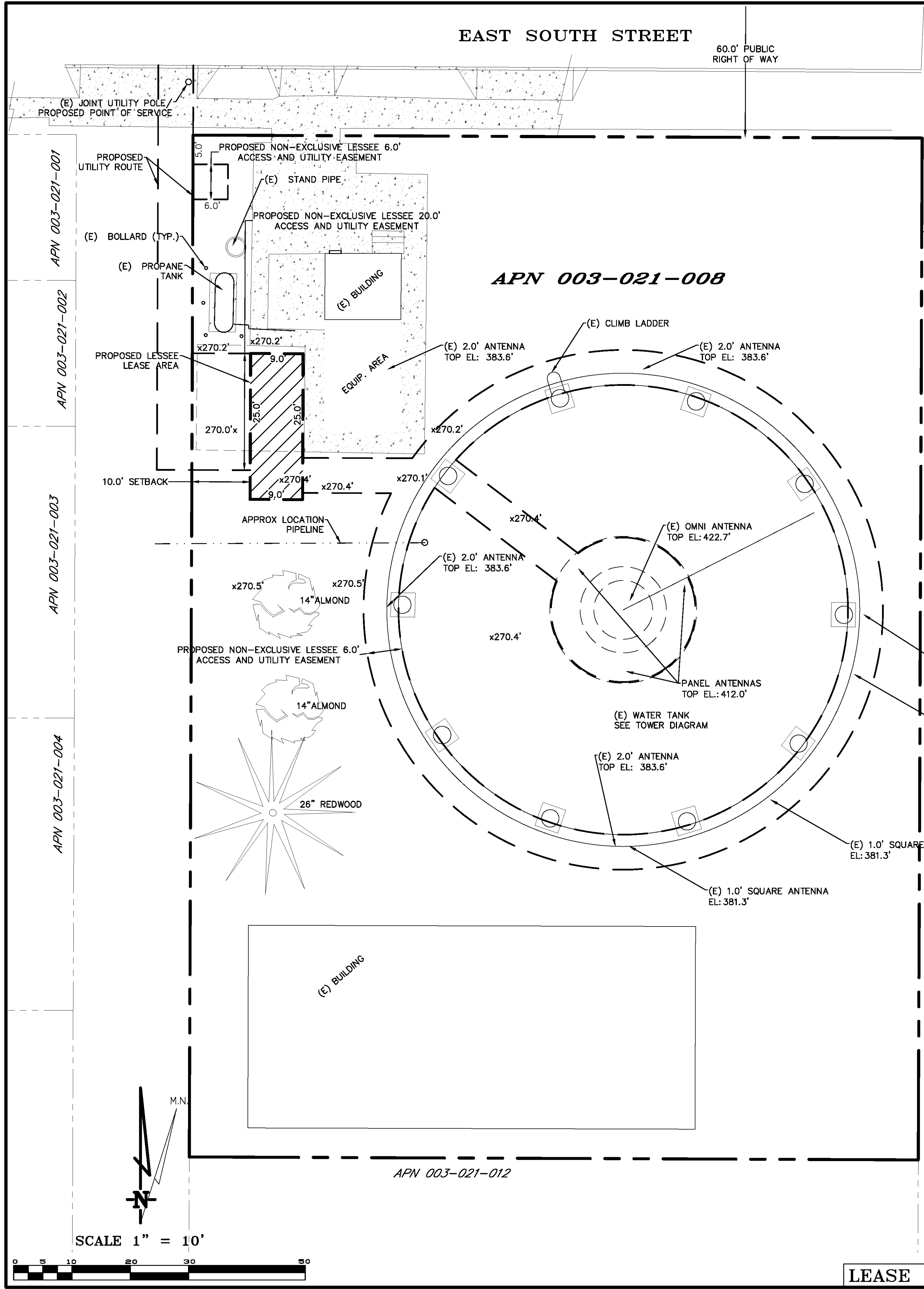
at&t MOBILITY

CVL01150 Columbus St. & Riverside Drive 716 Columbia Street Madera, CA 93638 PLOT PLAN AND SITE TOPOGRAPHY

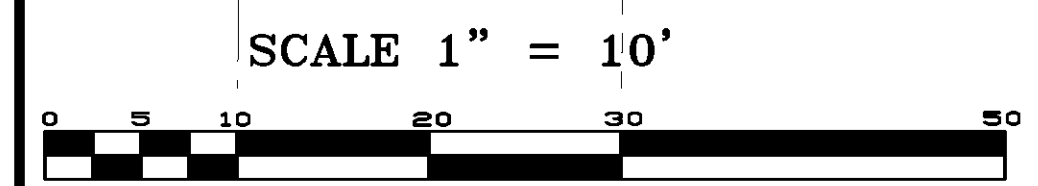
Table with columns: REV, DATE, DESCRIPTION, DRAWN BY, CHECKED BY, APPROVED BY

Table with columns: REV, DATE, DESCRIPTION, DRAWN BY, CHECKED BY, APPROVED BY

Sheet C-1

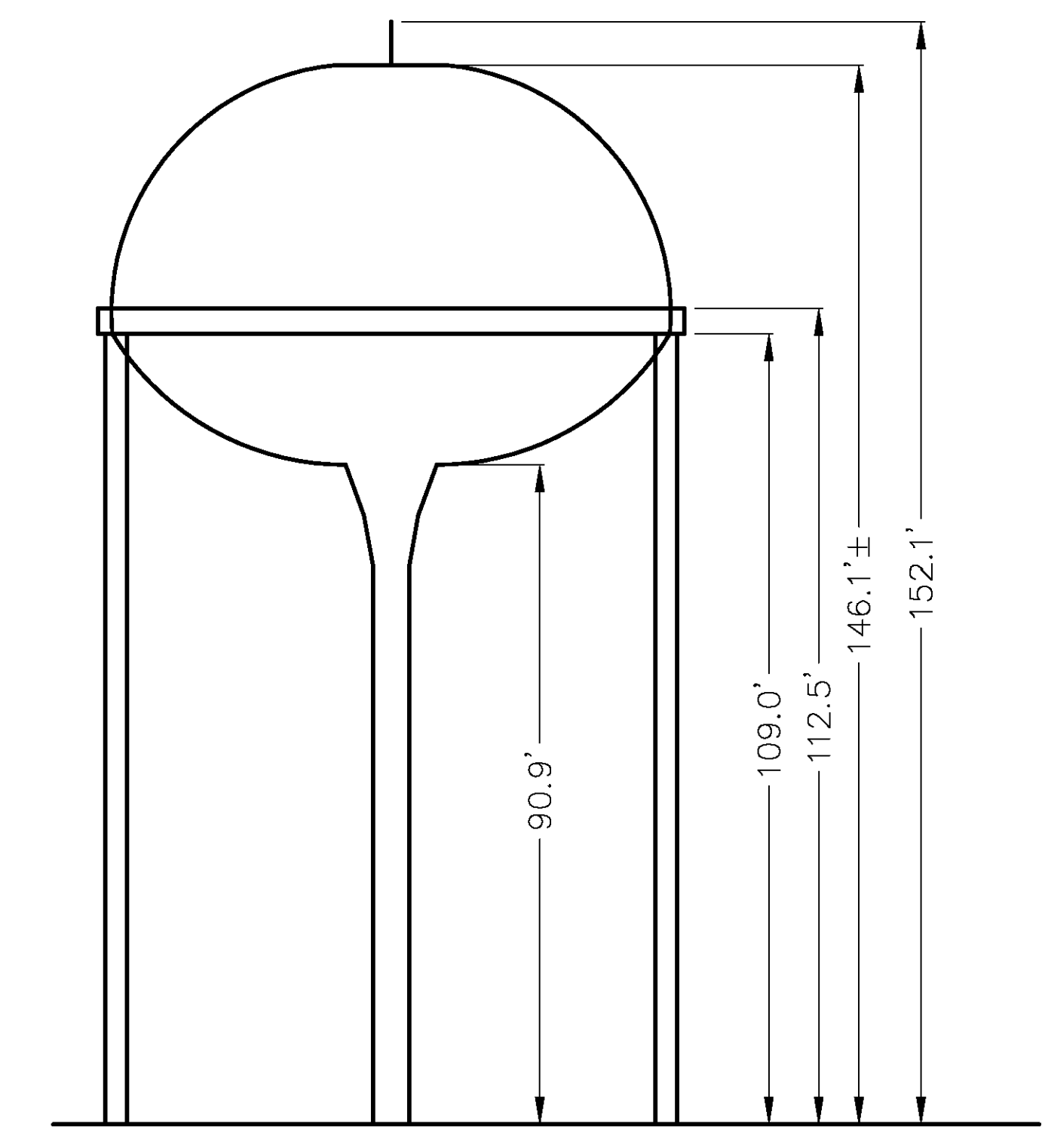


60.0' PUBLIC RIGHT OF WAY COLUMBIA STREET

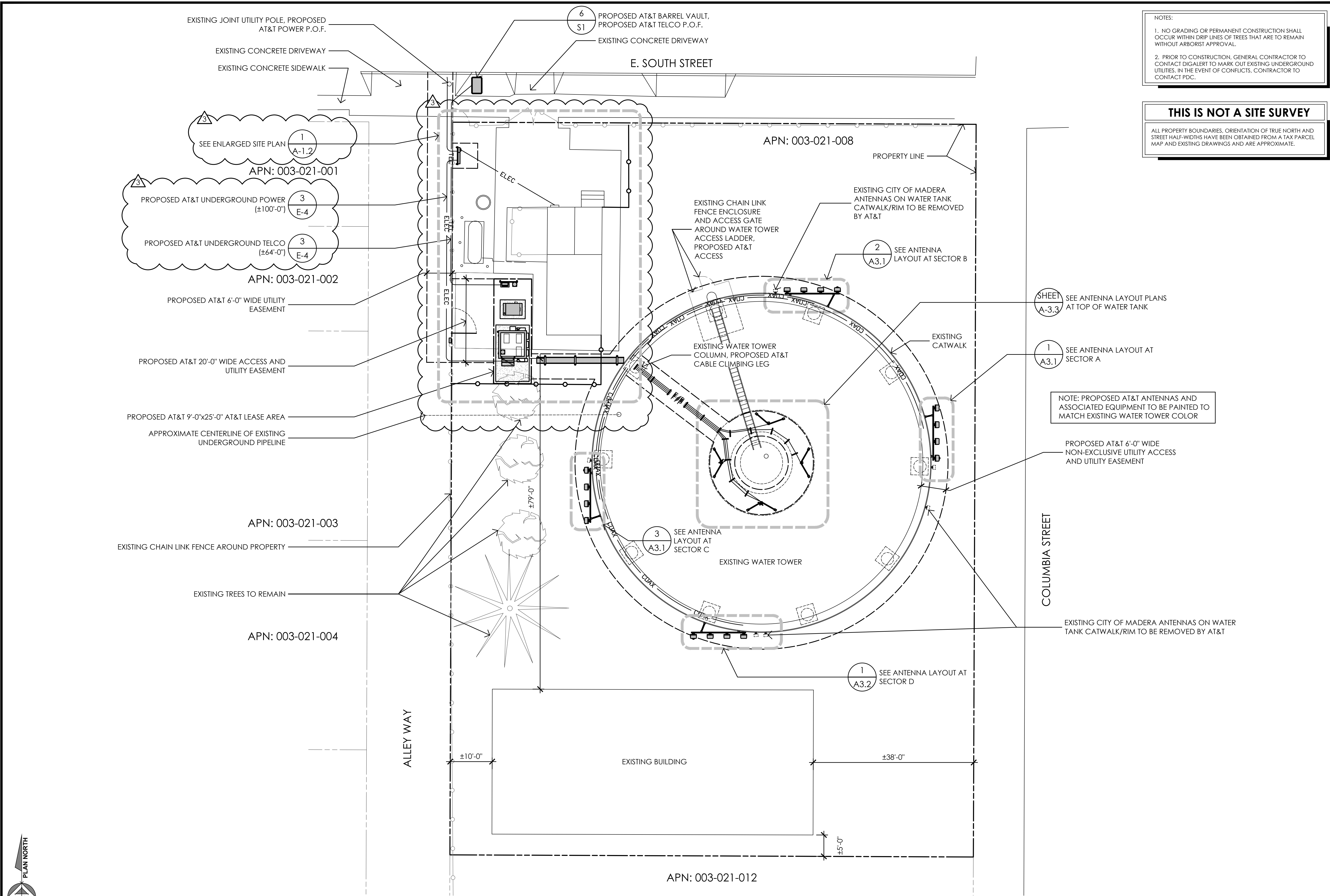


SCALE 1" = 10'

LEASE AREA DETAIL



SCALE 1" = 20'



NOTES:

- NO GRADING OR PERMANENT CONSTRUCTION SHALL OCCUR WITHIN DRIP LINES OF TREES THAT ARE TO REMAIN WITHOUT ARBORIST APPROVAL.
- PRIOR TO CONSTRUCTION, GENERAL CONTRACTOR TO CONTACT DIGALERT TO MARK OUT EXISTING UNDERGROUND UTILITIES. IN THE EVENT OF CONFLICTS, CONTRACTOR TO CONTACT PDC.

**THIS IS NOT A SITE SURVEY**

ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.

Issued For:

**CVL01150**  
**COLUMBUS ST. & RIVERSIDE**  
 716 COLUMBIA STREET  
 MADERA, CA. 93638

PREPARED FOR

2600 Camino Ramon  
 San Ramon, California 94583

Vendor:

**COMPLETE**  
 Wireless Consulting, Inc.

AT&T SITE NO: CVL01150  
 PROJECT NO: 162.2188  
 DRAWN BY: MWS  
 CHECKED BY: SV

REV	DATE	DESCRIPTION
△	06/11/19	100% CD REV 4
△	05/24/19	100% CD REV 3
△	05/07/19	100% CD REV 2
△	02/08/19	100% CD PC 1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

Licensee:

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.

Architect:

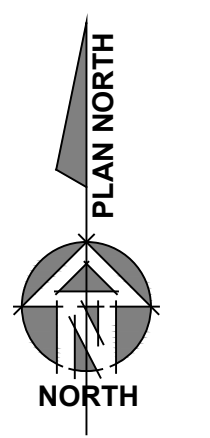
**MST ARCHITECTS**  
 1520 River Park Drive  
 Sacramento, California 95815

SHEET TITLE:

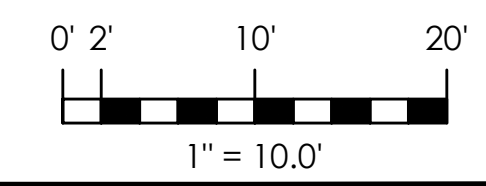
**OVERALL SITE PLAN**

SHEET NUMBER:

**A-1.1**



1 SITE PLAN  
 1"=10'



NOTES:  
 1. NO GRADING OR PERMANENT CONSTRUCTION SHALL OCCUR WITHIN DRIP LINES OF TREES THAT ARE TO REMAIN WITHOUT ARBORIST APPROVAL.  
 2. PRIOR TO CONSTRUCTION, GENERAL CONTRACTOR TO CONTACT DIGALERT TO MARK OUT EXISTING UNDERGROUND UTILITIES. IN THE EVENT OF CONFLICTS, CONTRACTOR TO CONTACT PDC.

**THIS IS NOT A SITE SURVEY**  
 ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.


Issued For:  
**CVL01150**  
**COLUMBUS ST. & RIVERSIDE**  
 716 COLUMBIA STREET  
 MADERA, CA. 93638

PREPARED FOR  
  
 2600 Camino Ramon  
 San Ramon, California 94583

Vendor:  


AT&T SITE NO: CVL01150  
 PROJECT NO: 162.2188  
 DRAWN BY: MWS  
 CHECKED BY: SV

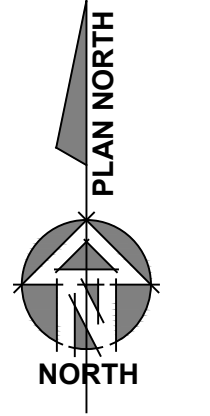
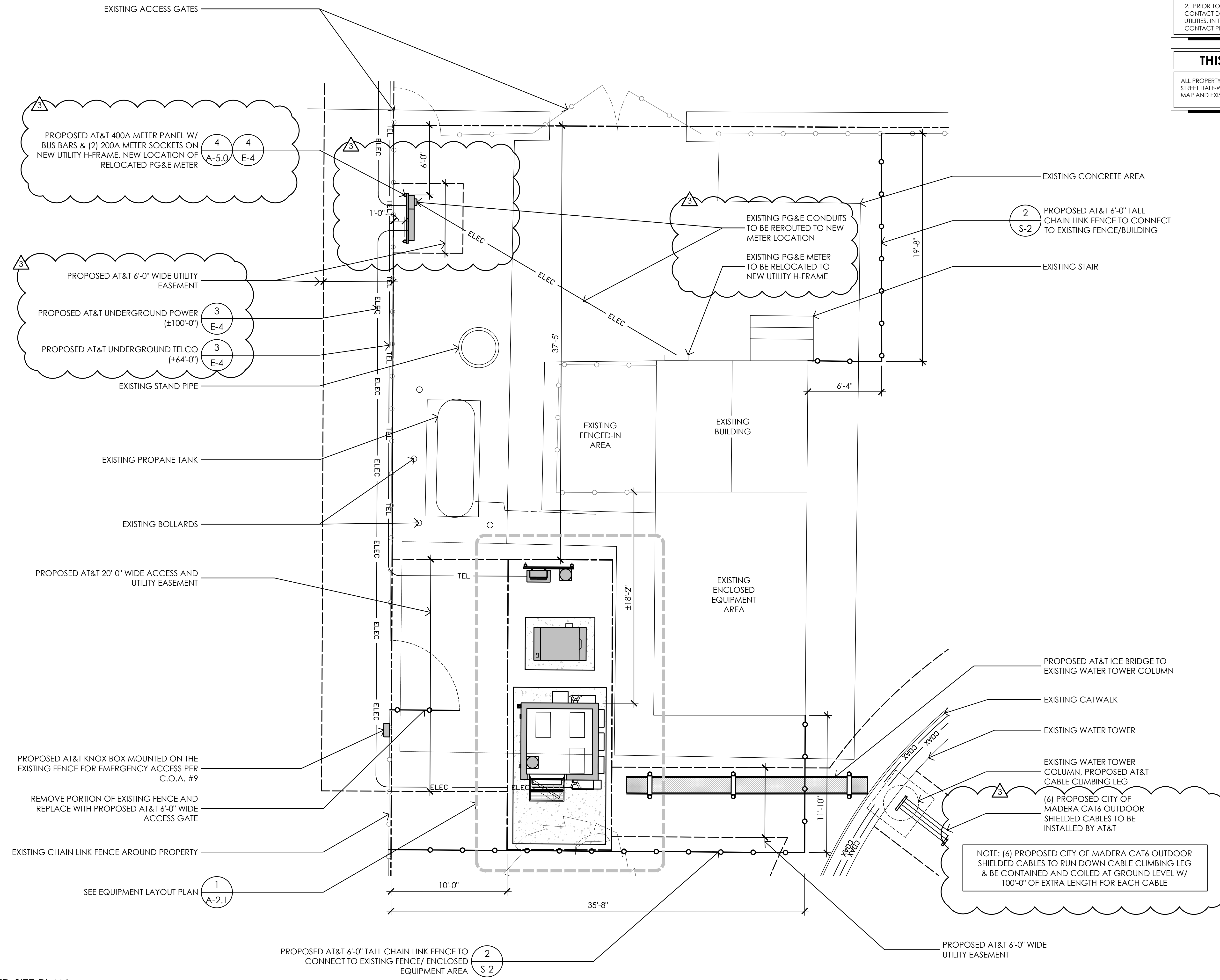
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Δ	05/24/19	100% CD REV3
Δ	05/07/19	100% CD REV2
Δ	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

Licensee:  
  
 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.

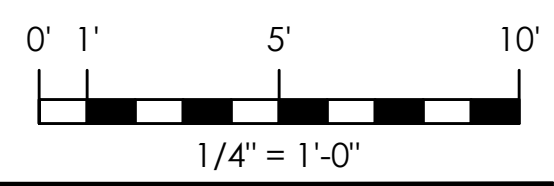
Architect:  
  
 1520 River Park Drive  
 Sacramento, California 95815

SHEET TITLE:  
**ENLARGED SITE PLAN**

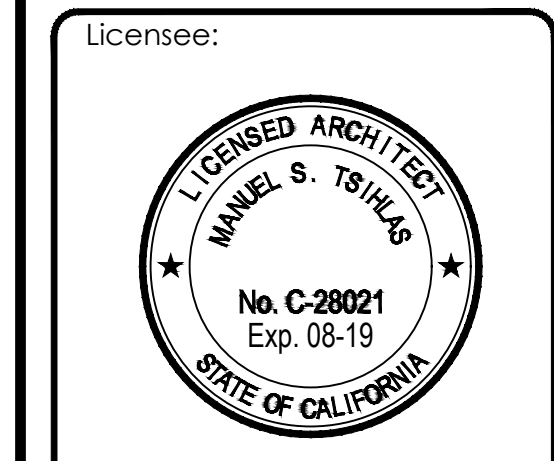
SHEET NUMBER:  
**A-1.2**



**1** ENLARGED SITE PLAN  
 1/4" = 1'-0"



REV	DATE	DESCRIPTION
Δ	06/11/19	100% CD REV4
Δ	05/24/19	100% CD REV3
Δ	05/07/19	100% CD REV2
Δ	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

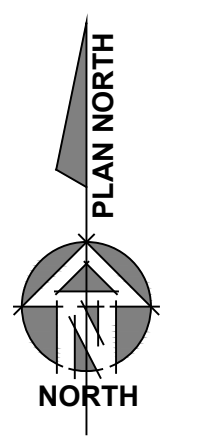
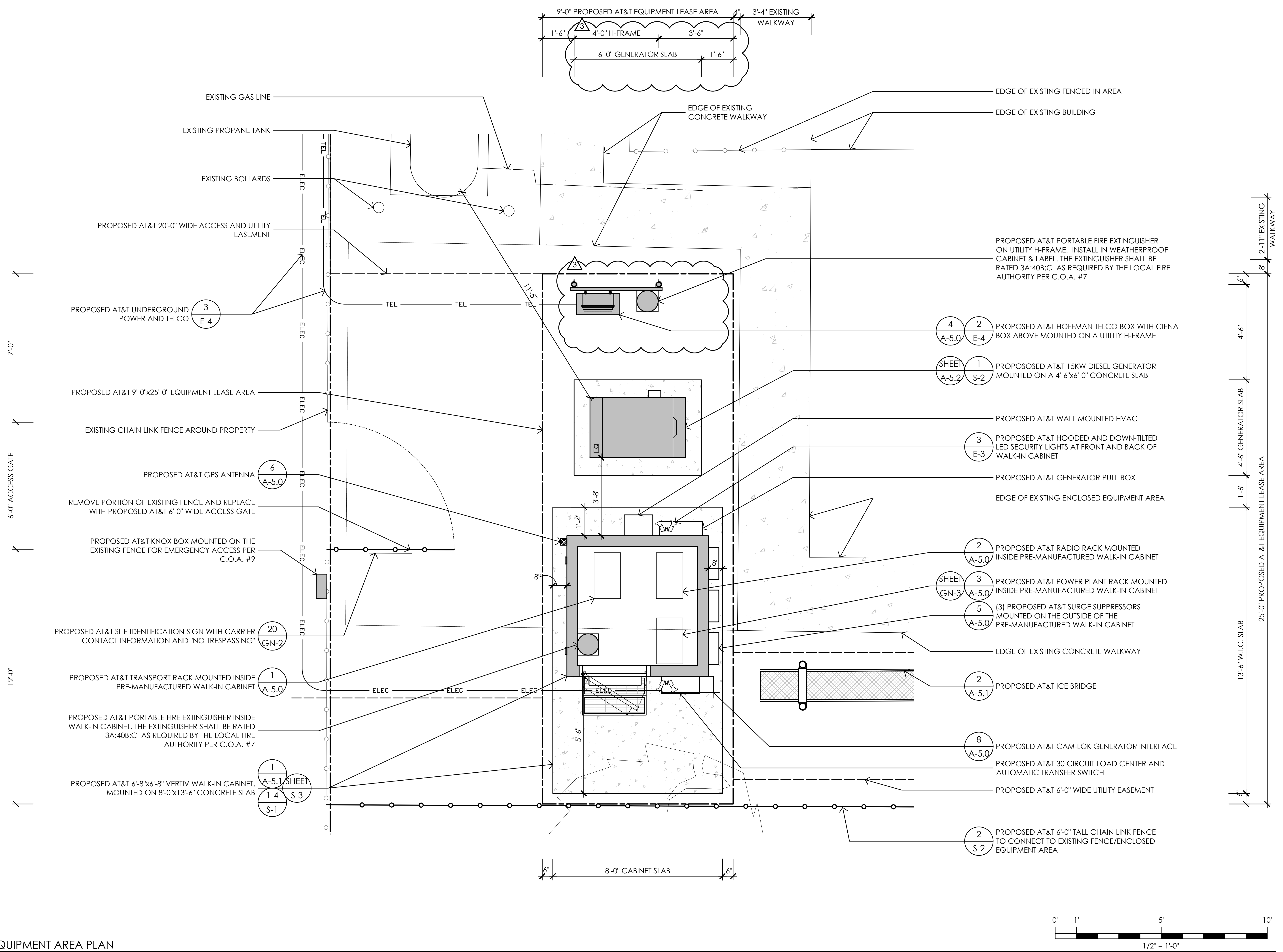


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

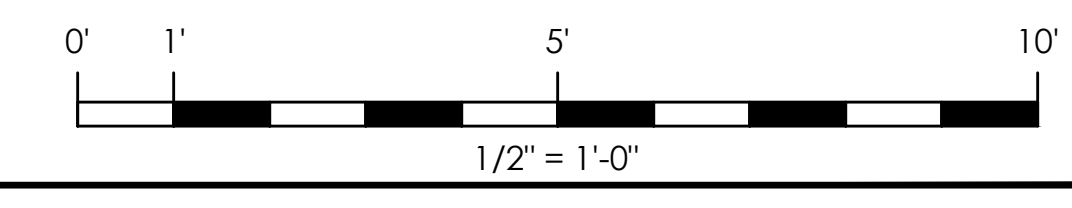


SHEET TITLE:  
**EQUIPMENT LAYOUT PLAN**

SHEET NUMBER:  
**A-2.1**

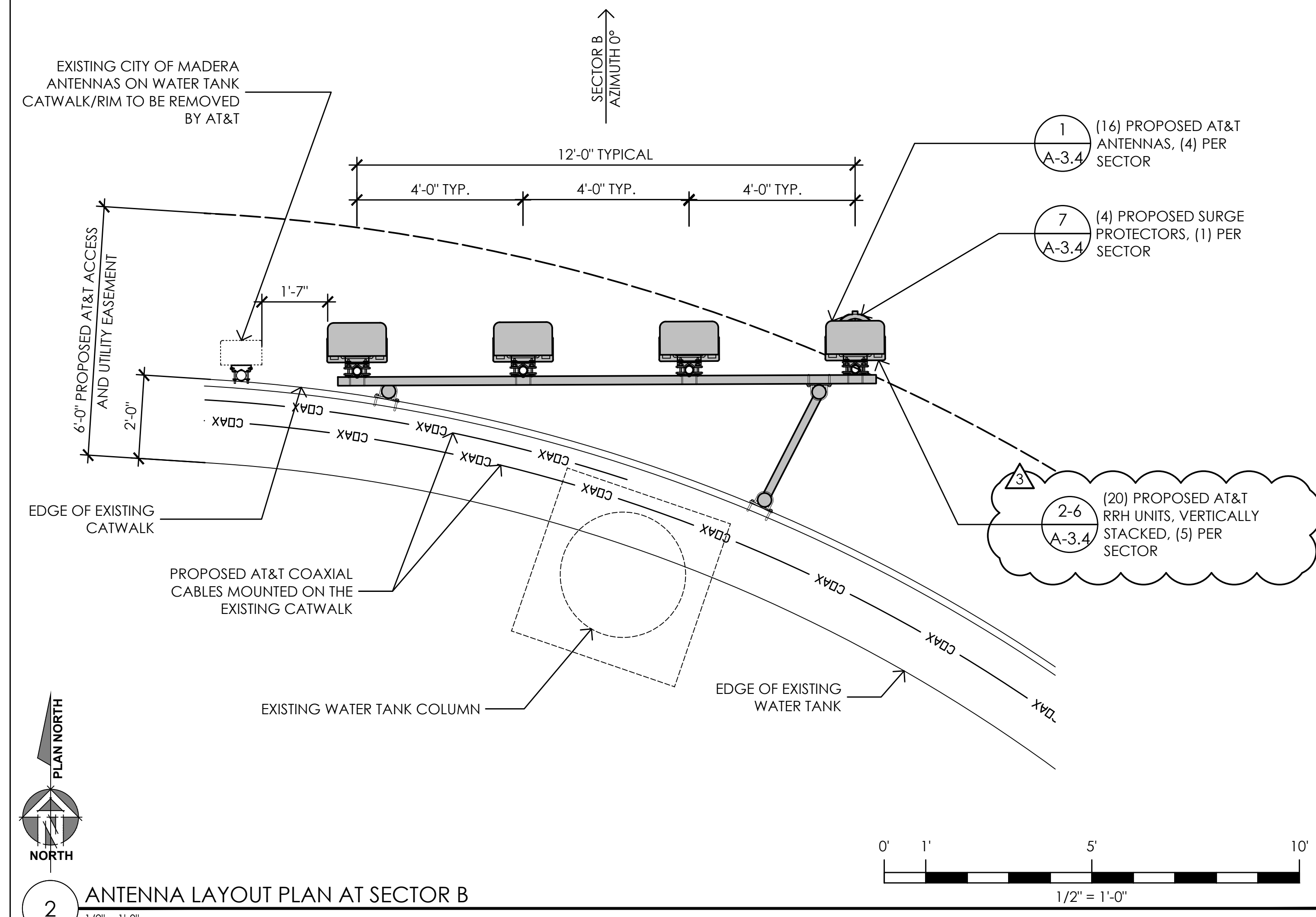


**1** EQUIPMENT AREA PLAN  
 1/2" = 1'-0"



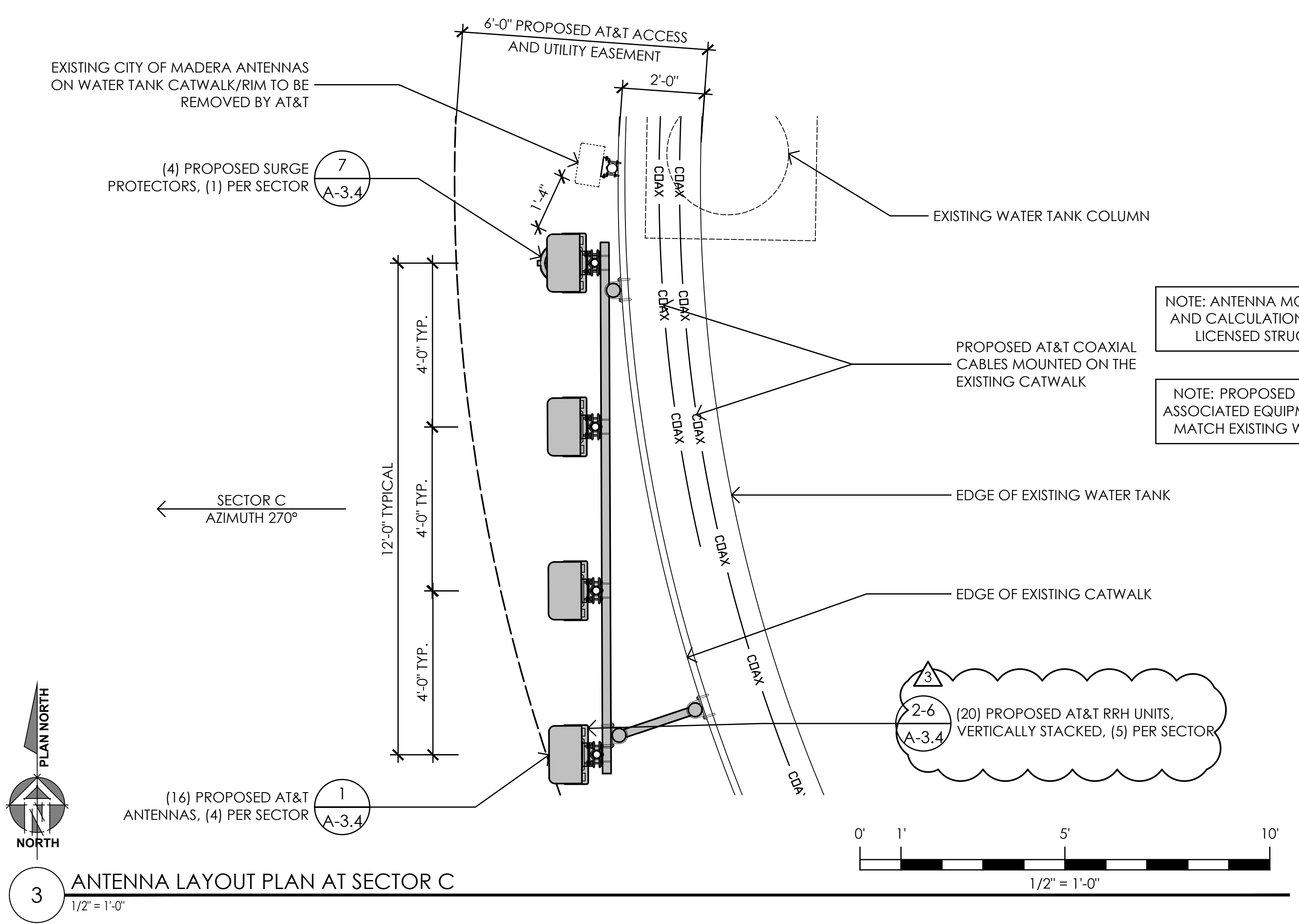
RF SCHEDULE									
SECTOR	ANTENNA MODEL NO.	AZIMUTH	CENTERLINE	RRU	TMA	FIBER LENGTH	COAX LENGTH	COAX DIA.	NO. OF RRU'S
ALPHA	A1	90°	±111'-0"	(1) RRUS-11 E B12 / (1) 4415 B25	-	±140'-0"	-	-	2
	A2	90°	±111'-0"	(1) 4478 B14 / (1) 4415 B25	-	±140'-0"	-	-	2
	A3	90°	±111'-0"	(1) 4478 B5 / (1) 4426 B66	-	±140'-0"	-	-	2
	A4	90°	±111'-0"	(1) RRUS-E2 B29 / (1) RRUS-32	-	±140'-0"	-	-	2
BETA	B1	0°	±111'-0"	(1) RRUS-11 E B12 / (1) 4415 B25	-	±140'-0"	-	-	2
	B2	0°	±111'-0"	(1) 4478 B14 / (1) 4415 B25	-	±140'-0"	-	-	2
	B3	0°	±111'-0"	(1) 4478 B5 / (1) 4426 B66	-	±140'-0"	-	-	2
	B4	0°	±111'-0"	(1) RRUS-E2 B29 / (1) RRUS-32	-	±140'-0"	-	-	2
GAMMA	C1	270°	±111'-0"	(1) RRUS-11 E B12 / (1) 4415 B25	-	±140'-0"	-	-	2
	C2	270°	±111'-0"	(1) 4478 B14 / (1) 4415 B25	-	±140'-0"	-	-	2
	C3	270°	±111'-0"	(1) 4478 B5 / (1) 4426 B66	-	±140'-0"	-	-	2
	C4	270°	±111'-0"	(1) RRUS-E2 B29 / (1) RRUS-32	-	±140'-0"	-	-	2
DELTA	D1	180°	±111'-0"	(1) RRUS-11 E B12 / (1) 4415 B25	-	±140'-0"	-	-	2
	D2	180°	±111'-0"	(1) 4478 B14 / (1) 4415 B25	-	±140'-0"	-	-	2
	D3	180°	±111'-0"	(1) 4478 B5 / (1) 4426 B66	-	±140'-0"	-	-	2
	D4	180°	±111'-0"	(1) RRUS-E2 B29 / (1) RRUS-32	-	±140'-0"	-	-	2

NOTE: EQUIPMENT IS PRELIMINARY AND SUBJECT TO CHANGE & ANTENNA POSITIONS ARE LEFT TO RIGHT FROM THE FRONT OF ANTENNA.

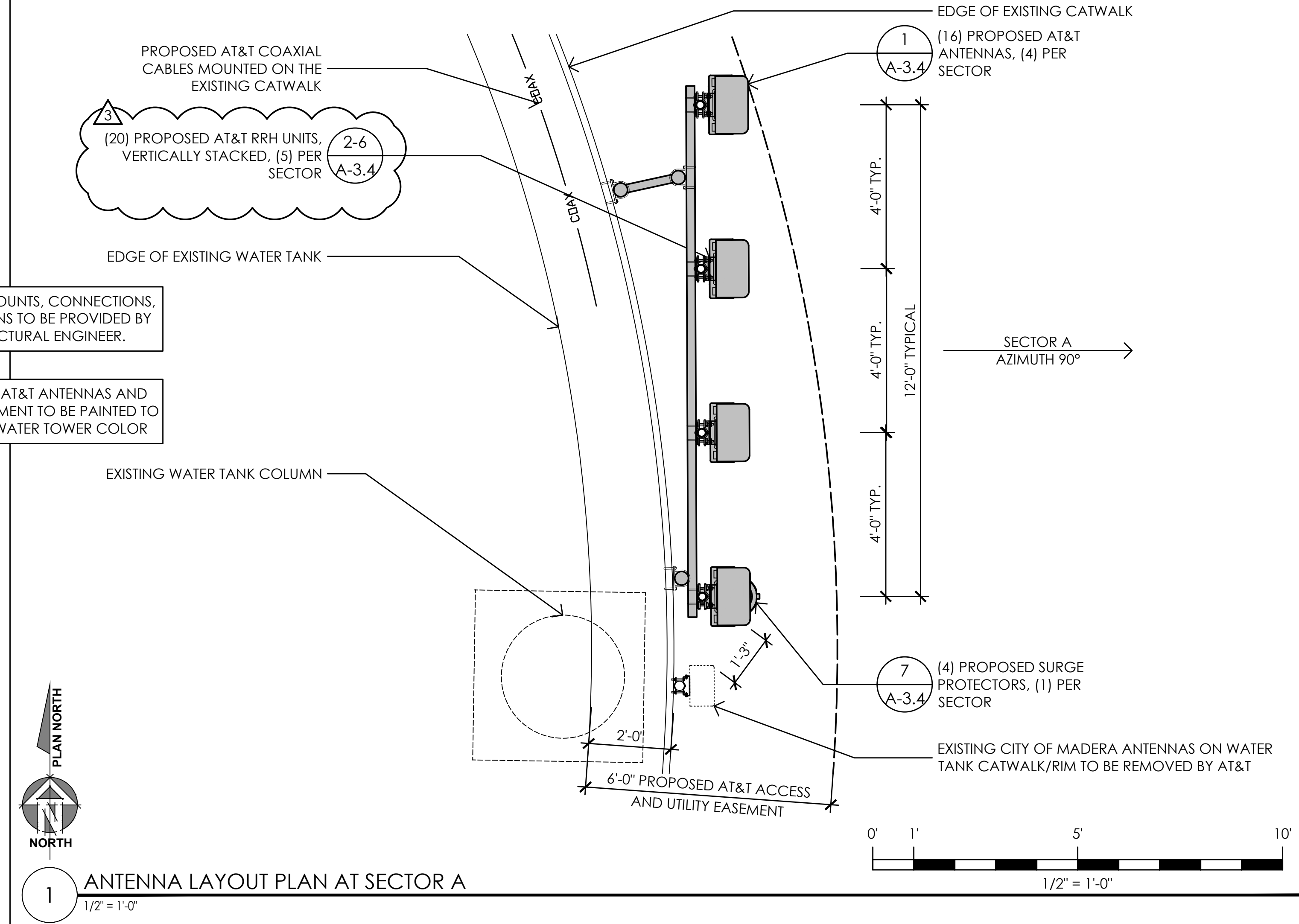


2 ANTENNA LAYOUT PLAN AT SECTOR B  
1/2" = 1'-0"

4 RF SCHEDULE  
NO SCALE



3 ANTENNA LAYOUT PLAN AT SECTOR C  
1/2" = 1'-0"



1 ANTENNA LAYOUT PLAN AT SECTOR A  
1/2" = 1'-0"

Issued For:  
**CVL01150**  
**COLUMBUS ST. & RIVERSIDE**  
716 COLUMBIA STREET  
MADERA, CA. 93638

PREPARED FOR  
  
2600 Camino Ramon  
San Ramon, California 94583

Vendor:

AT&T SITE NO: CVL01150  
PROJECT NO: 162.2188  
DRAWN BY: MWS  
CHECKED BY: SV

REV	DATE	DESCRIPTION
Δ	06/11/19	100% CD REV4
Δ	05/24/19	100% CD REV3
Δ	05/07/19	100% CD REV2
Δ	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

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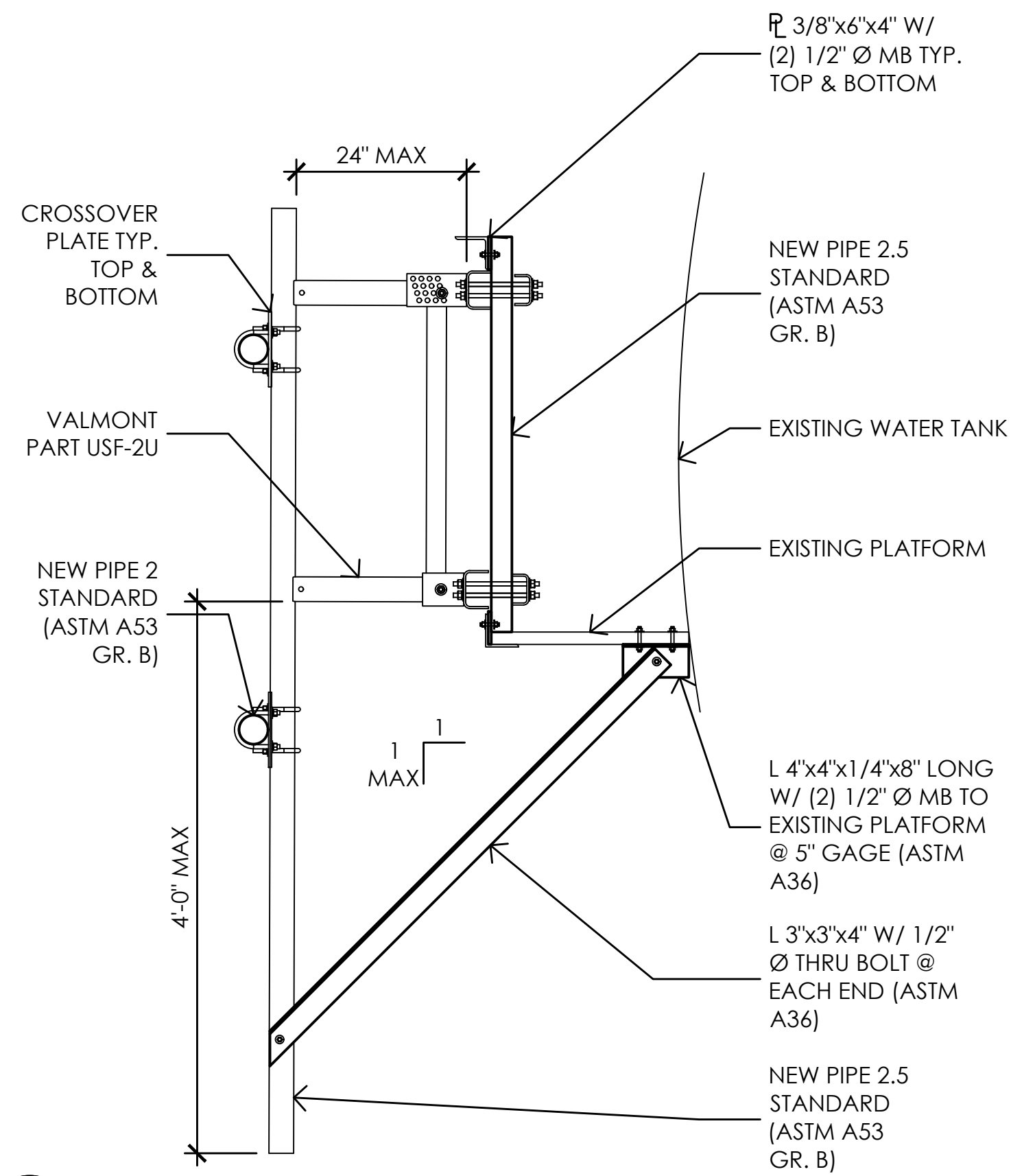
Architect:  
  
1520 River Park Drive  
Sacramento, California 95815

SHEET TITLE:  
**ANTENNA PLANS AND SCHEDULE**

SHEET NUMBER:  
**A-3.1**



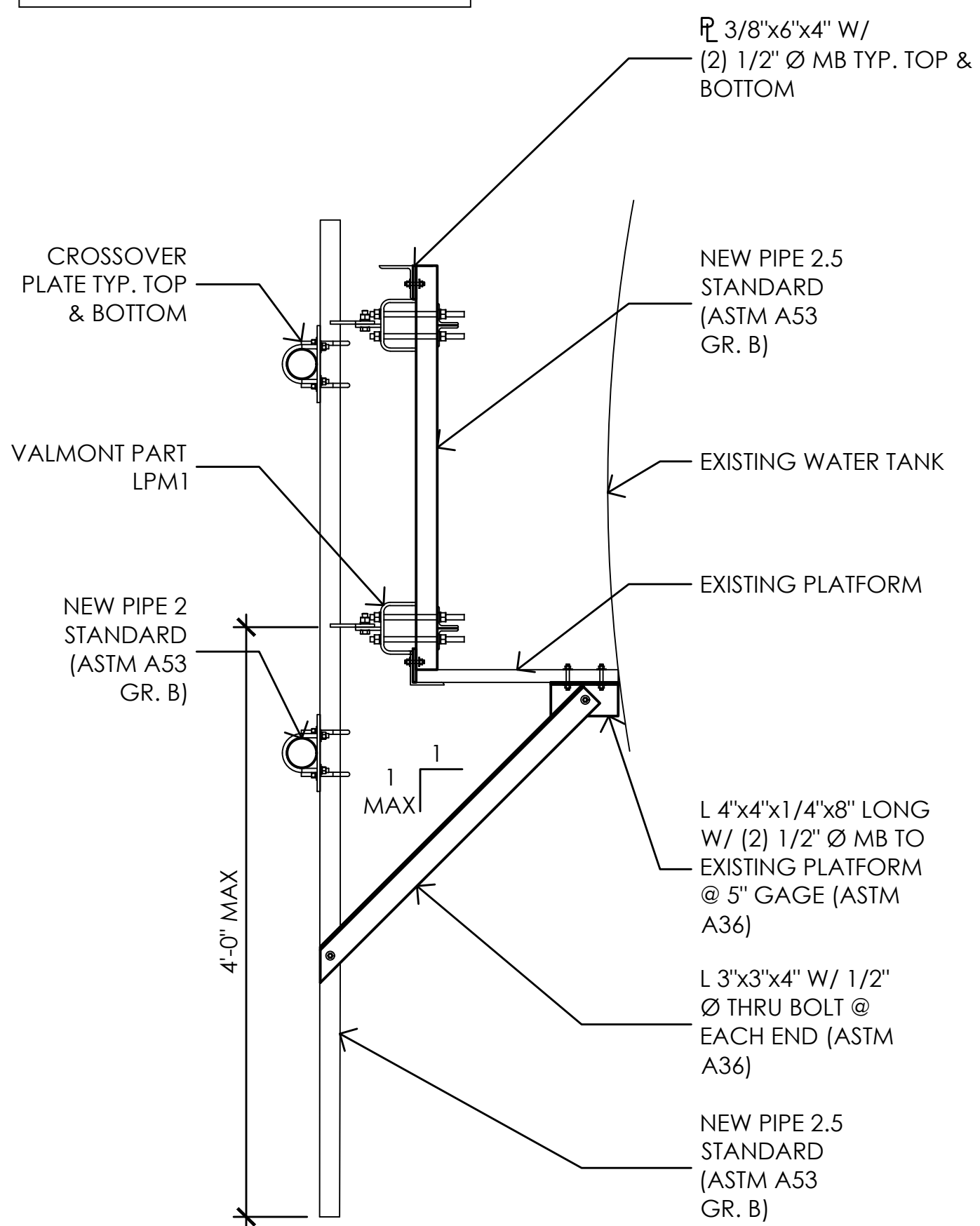
NOTE: ALL STEEL AND FASTENERS TO BE HDG FINISH



3 MOUNTING DETAIL

3/4" = 1'-0"

NOTE: ALL STEEL AND FASTENERS TO BE HDG FINISH

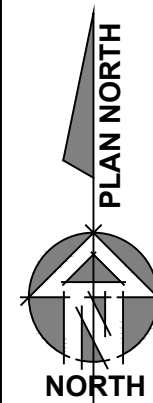
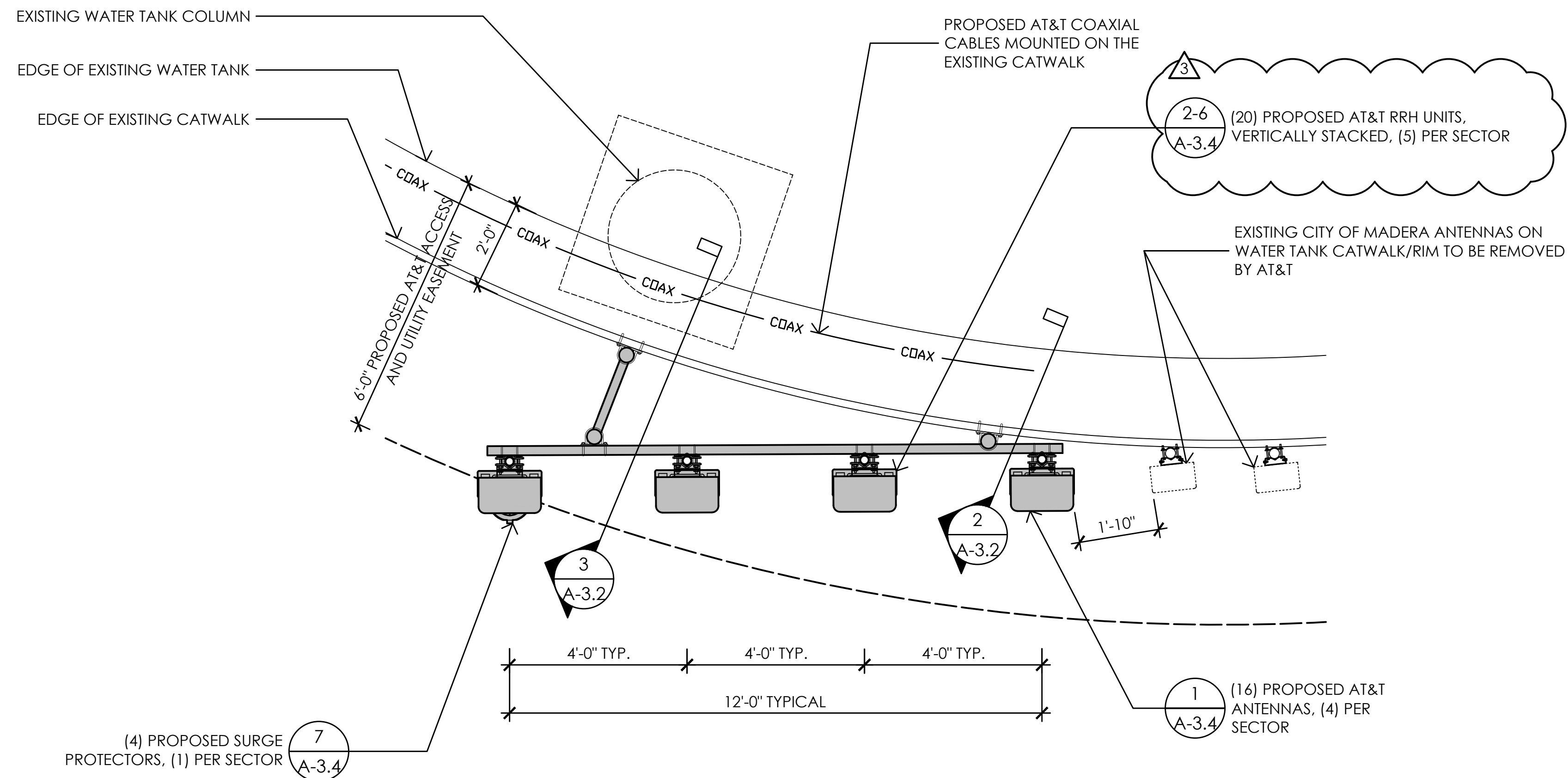


2 MOUNTING DETAIL

3/4" = 1'-0"

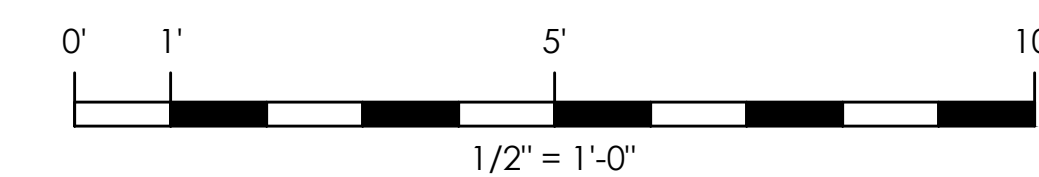
NOTE: ANTENNA MOUNTS, CONNECTIONS, AND CALCULATIONS TO BE PROVIDED BY LICENSED STRUCTURAL ENGINEER.

NOTE: PROPOSED AT&T ANTENNAS AND ASSOCIATED EQUIPMENT TO BE PAINTED TO MATCH EXISTING WATER TOWER COLOR



1 ANTENNA LAYOUT PLAN AT SECTOR D

1/2" = 1'-0"



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**COLUMBUS ST.**  
**& RIVERSIDE**  
 716 COLUMBIA STREET  
 MADERA, CA. 93638

PREPARED FOR  
  
 2600 Camino Ramon  
 San Ramon, California 94583

Vendor:  
  
**COMPLETE**  
 Wireless Consulting, Inc.

AT&T SITE NO: CVL01150  
 PROJECT NO: 162.2188  
 DRAWN BY: MWS  
 CHECKED BY: SV

REV	DATE	DESCRIPTION
	06/11/19	100% CD REV 4
	05/24/19	100% CD REV 3
	05/07/19	100% CD REV 2
	02/08/19	100% CD PC 1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

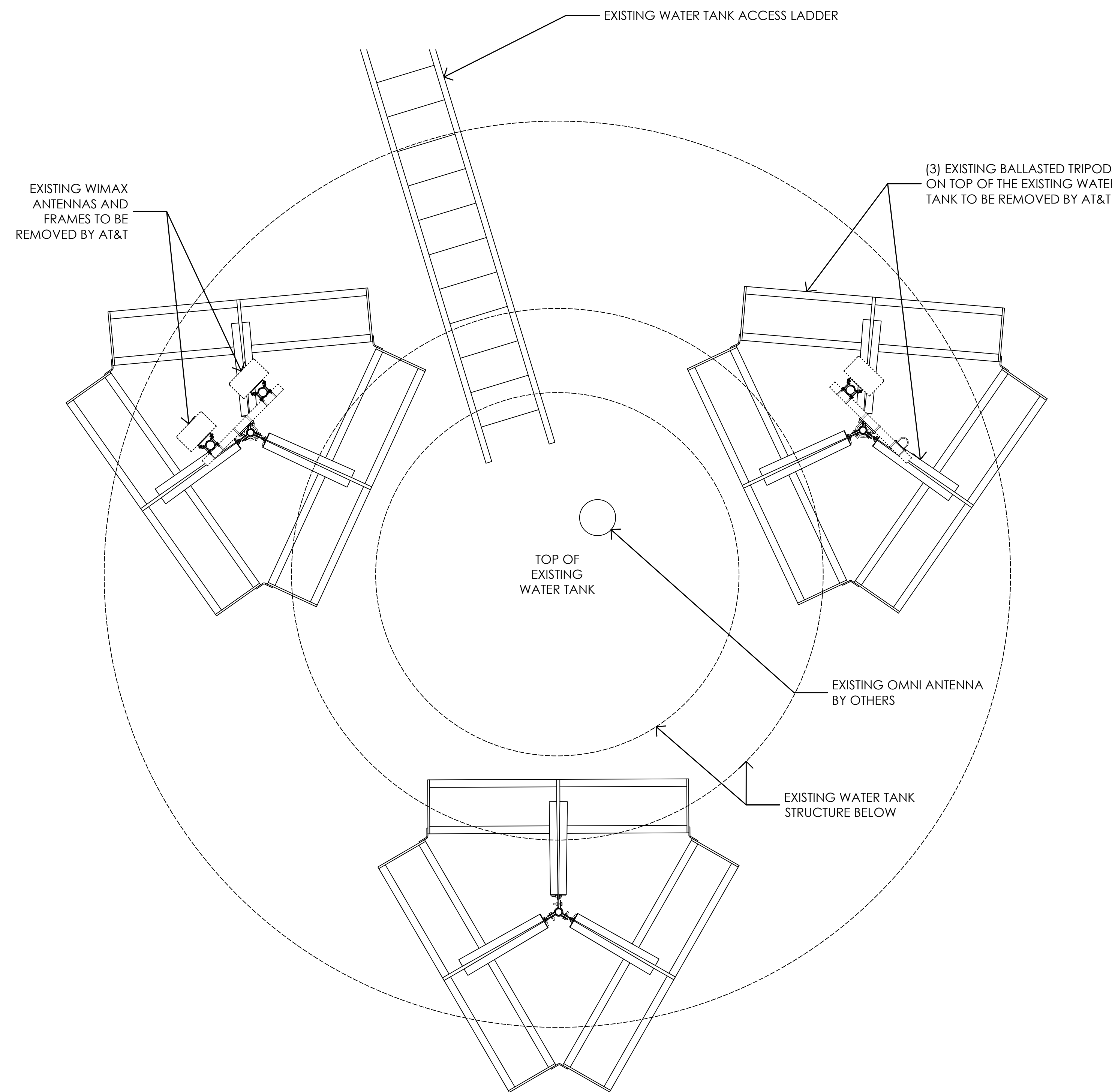
Licensee:  
  
 No. C-28021  
 Exp. 08-19  
 STATE OF CALIFORNIA

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Architect:  
  
**MST ARCHITECTS**  
 1520 River Park Drive  
 Sacramento, California 95815

SHEET TITLE:  
**ANTENNA PLAN**

SHEET NUMBER:  
**A-3.2**

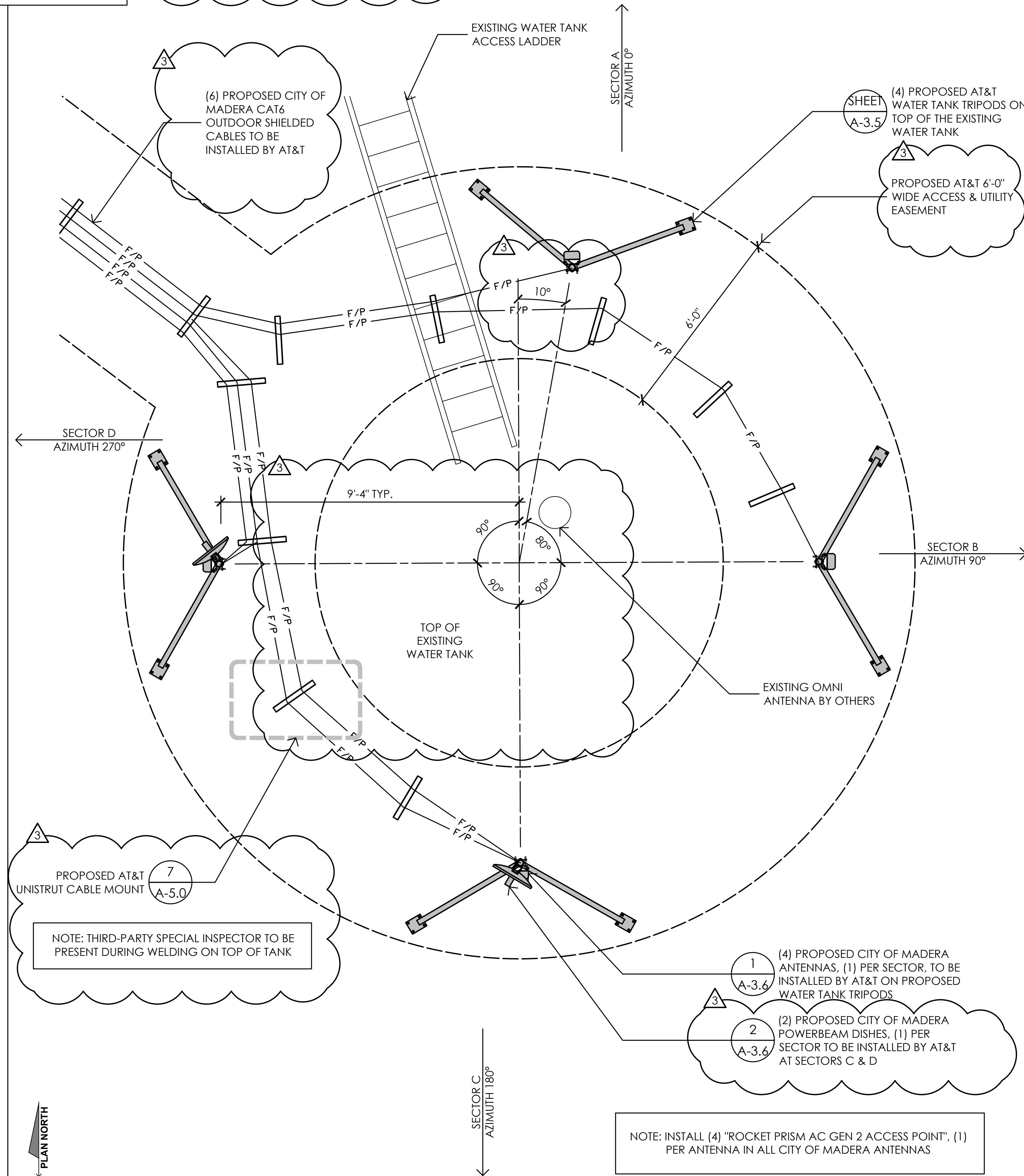


2 EXISTING ANTENNA LAYOUT PLAN AT TOP OF WATER TANK  
1/2" = 1'-0"

NOTE: ANTENNA MOUNTS, CONNECTIONS, AND CALCULATIONS TO BE PROVIDED BY LICENSED STRUCTURAL ENGINEER.

NOTE: PROPOSED AT&T ANTENNAS AND ASSOCIATED EQUIPMENT TO BE PAINTED TO MATCH EXISTING WATER TOWER COLOR

NOTE: (6) PROPOSED CITY OF MADERA CAT6 OUTDOOR SHIELDED CABLES TO RUN DOWN CABLE CLIMBING LEG & BE CONTAINED AND COILED AT GROUND LEVEL W/ 100'-0" OF EXTRA LENGTH FOR EACH CABLE



1 PROPOSED ANTENNA LAYOUT PLAN AT TOP OF WATER TANK  
1/2" = 1'-0"

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MADERA, CA. 93638

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2600 Camino Ramon  
San Ramon, California 94583

Vendor:  
  
**COMPLETE**  
Wireless Consulting, Inc.

AT&T SITE NO: CVL01150  
PROJECT NO: 162.2188  
DRAWN BY: MWS  
CHECKED BY: SV

REV	DATE	DESCRIPTION
△	06/11/19	100% CD REV 4
△	05/24/19	100% CD REV 3
△	05/07/19	100% CD REV 2
△	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

Licensee:

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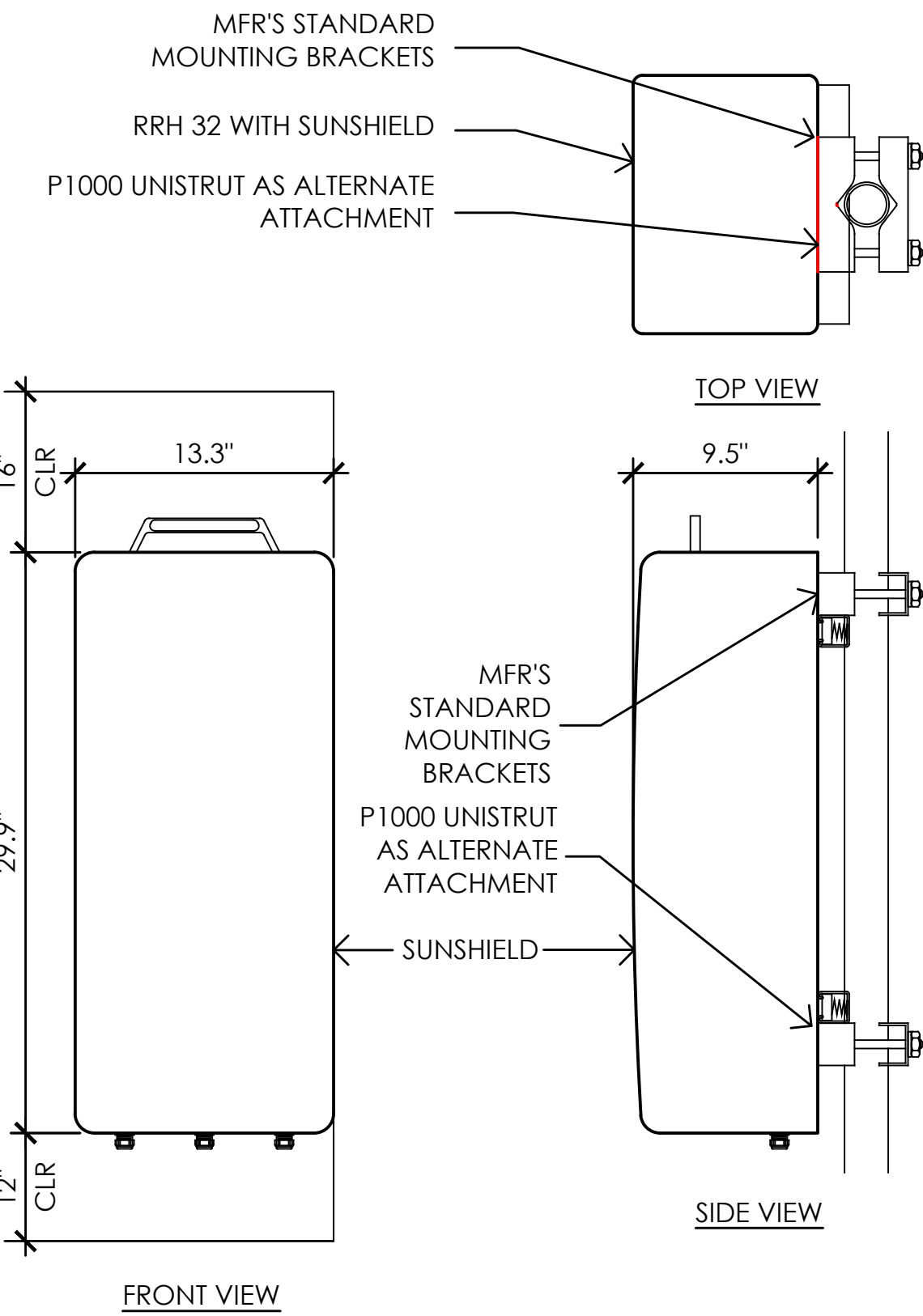
Architect:  
  
**MST ARCHITECTS**  
1520 River Park Drive  
Sacramento, California 95815

SHEET TITLE:  
**ANTENNA PLANS**

SHEET NUMBER:  
**A-3.3**

**ERICSSON WCS RRH-32**

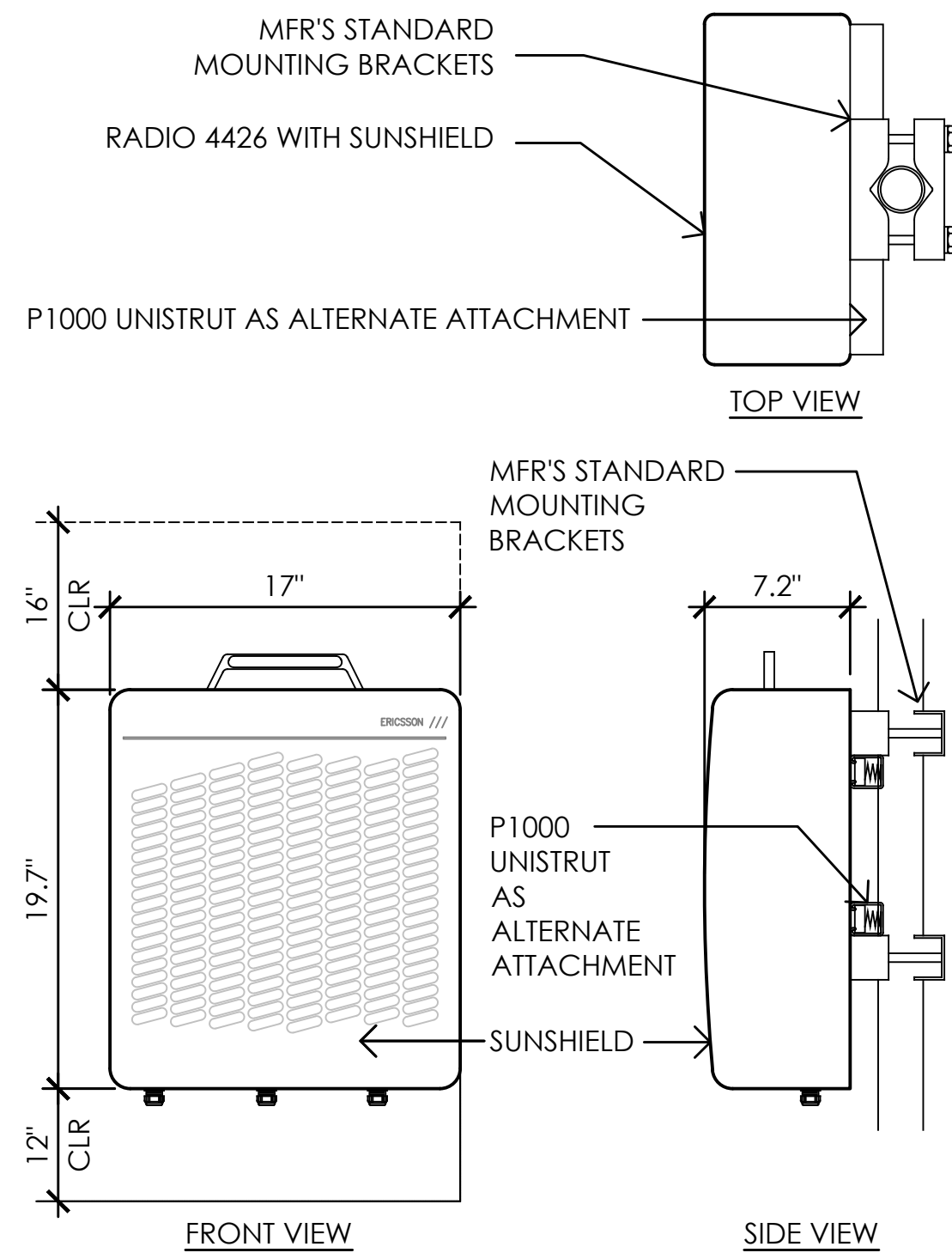
MODEL: KRC161 423/1  
 COLOR: WHITE  
 DIMENSIONS: 29.9" TALL X 13.3" WIDE X 9.5" DEEP (INCLUDING SUNSHIELD)  
 WEIGHT: +/- 77LBS. (INCLUDING MOUNTING HARDWARE)



**8** ERICSSON WCS RRH-32 REMOTE RADIO UNIT  
 1-1/2" = 1'-0"

**ERICSSON RADIO 4426 REMOTE RADIO UNIT**

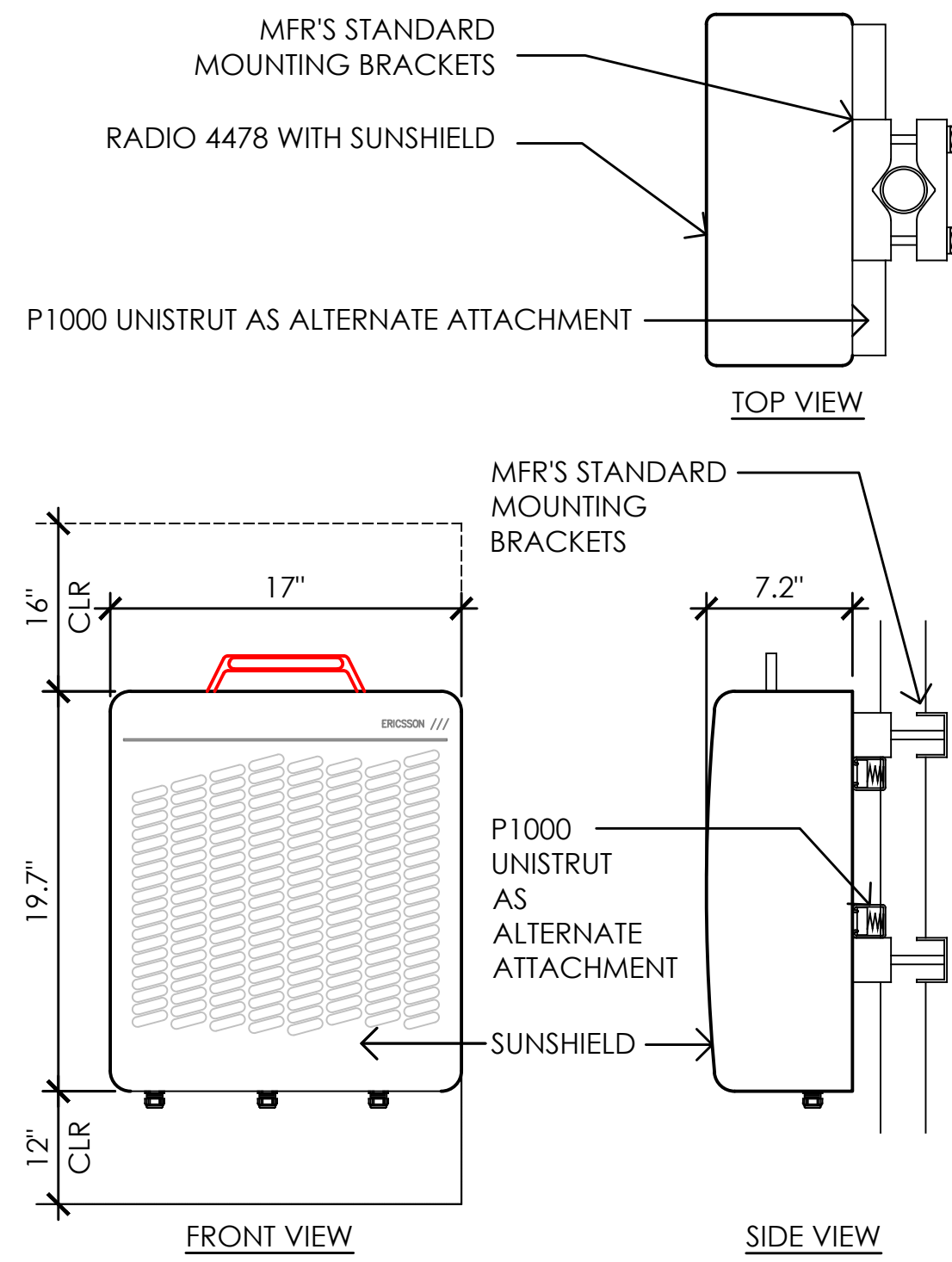
COLOR: WHITE  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP (INCLUDING SUNSHIELD)  
 WEIGHT: +/- 50 LBS. (INCLUDING MOUNTING HARDWARE)



**6** ERICSSON RADIO 4426 B66 REMOTE RADIO UNIT  
 1-1/2" = 1'-0"

**ERICSSON RADIO 4478 B14 REMOTE RADIO UNIT**

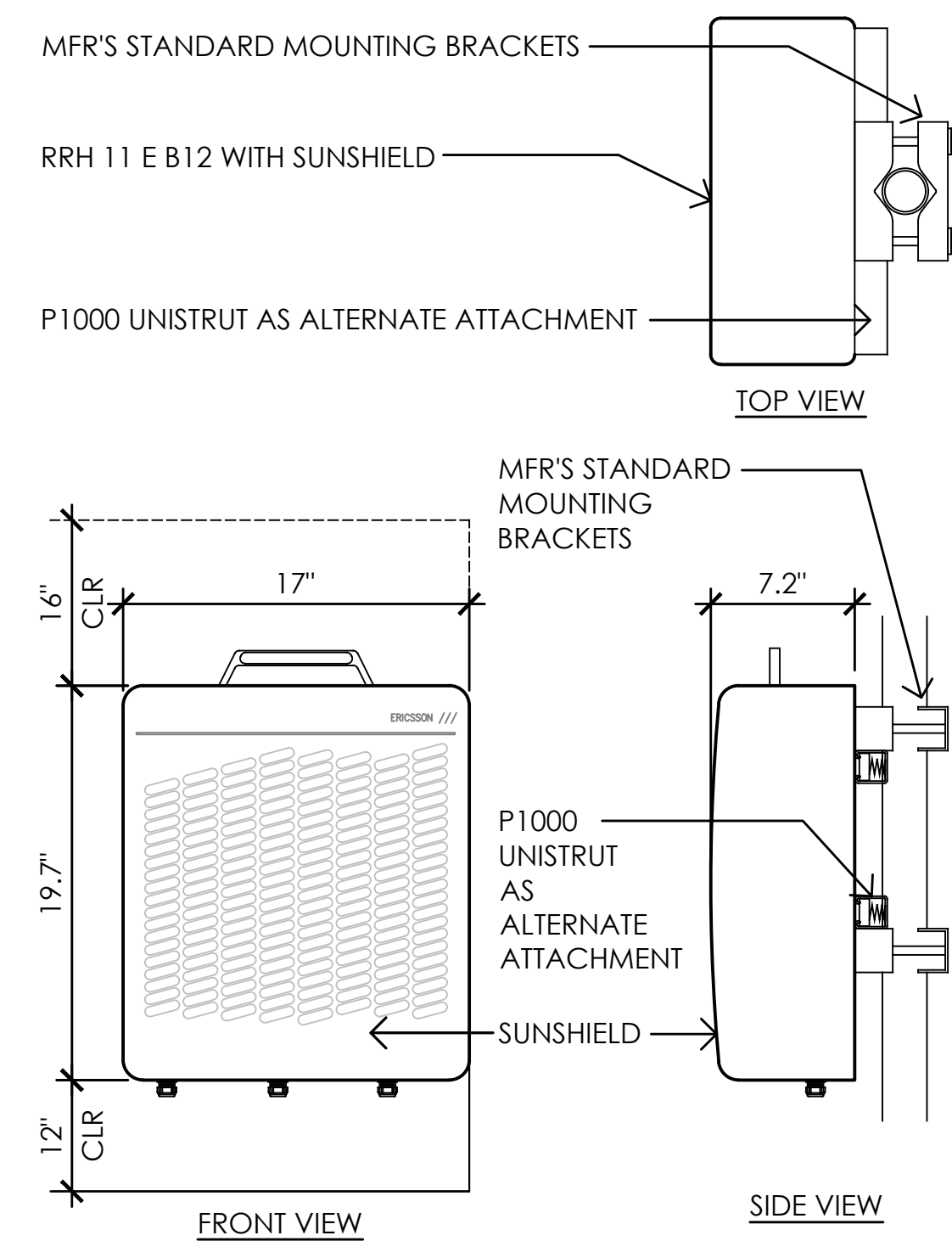
COLOR: WHITE  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP (INCLUDING SUNSHIELD)  
 WEIGHT: +/- 50 LBS. (INCLUDING MOUNTING HARDWARE)



**4** ERICSSON RADIO 4478 B14 REMOTE RADIO UNIT  
 1-1/2" = 1'-0"

**ERICSSON RRH-11 E B12 REMOTE RADIO UNIT**

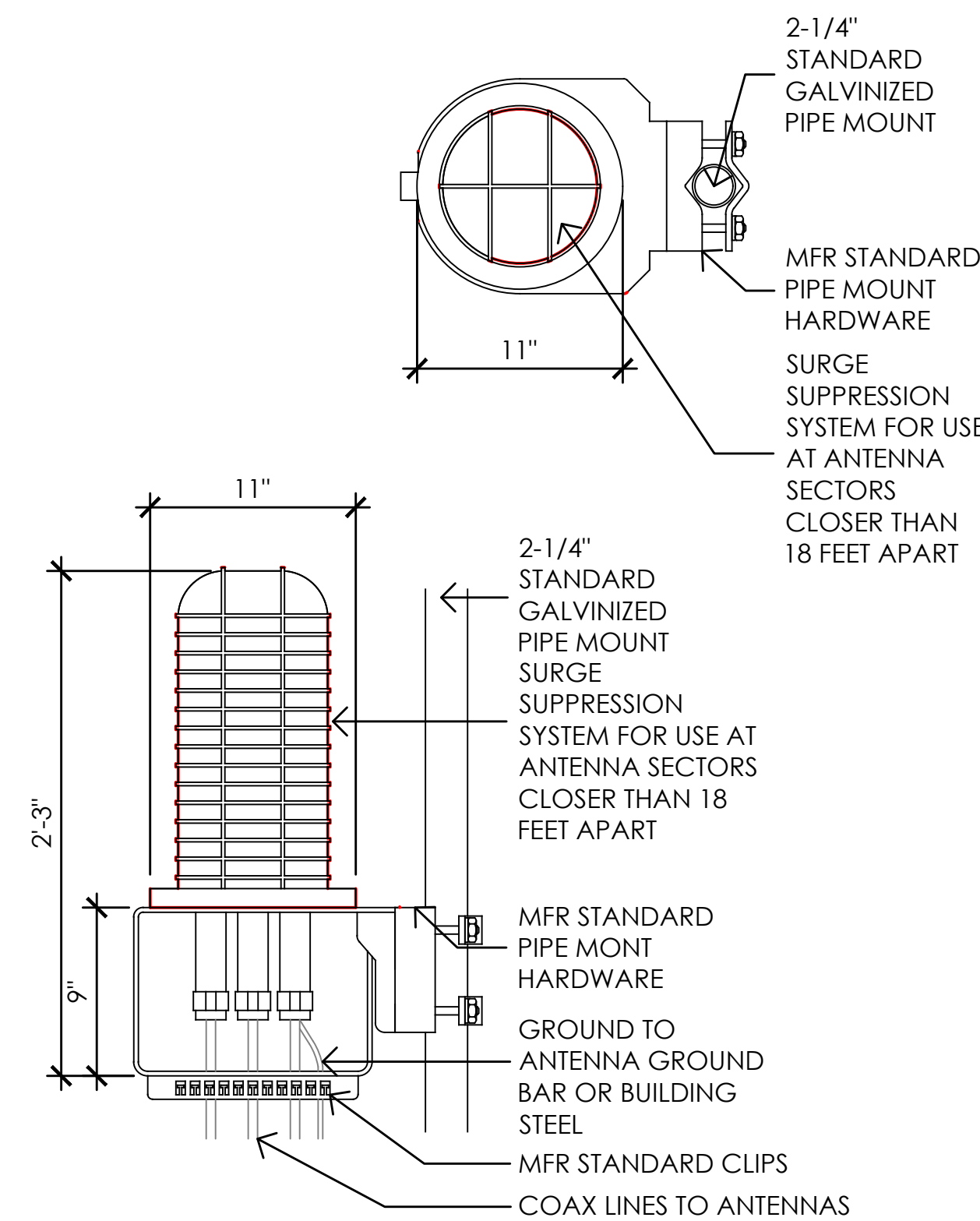
COLOR: WHITE  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP (INCLUDING SUNSHIELD)  
 WEIGHT: +/- 50 LBS. (INCLUDING MOUNTING HARDWARE)



**2** ERICSSON RRH-11 E B12 REMOTE RADIO UNIT  
 1-1/2" = 1'-0"

**RAYCAP DC6-48-60-18-8F & DC6-48-60-0-8F SURGE SUPPRESSION SOLUTION**

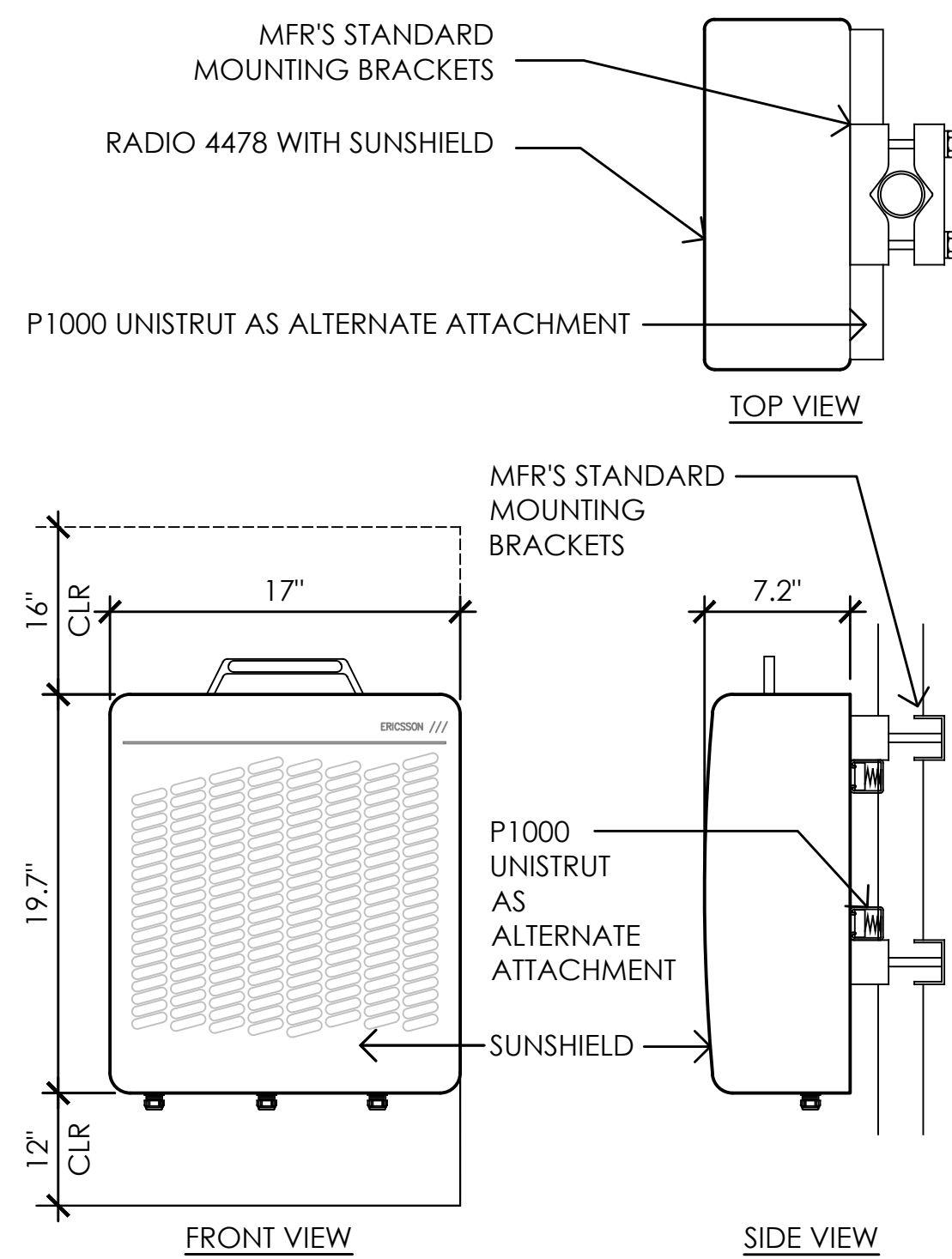
COLOR: BLACK/SILVER  
 DIMENSIONS: 11" DIA X 27" TALL W/ 9" BASE  
 WEIGHT: +/- 50 LBS. (INCLUDING MOUNTING HARDWARE)



**7** DC SURGE SUPPRESSION (SQUID)  
 1-1/2" = 1'-0"

**ERICSSON RADIO 4478 B5 REMOTE RADIO UNIT**

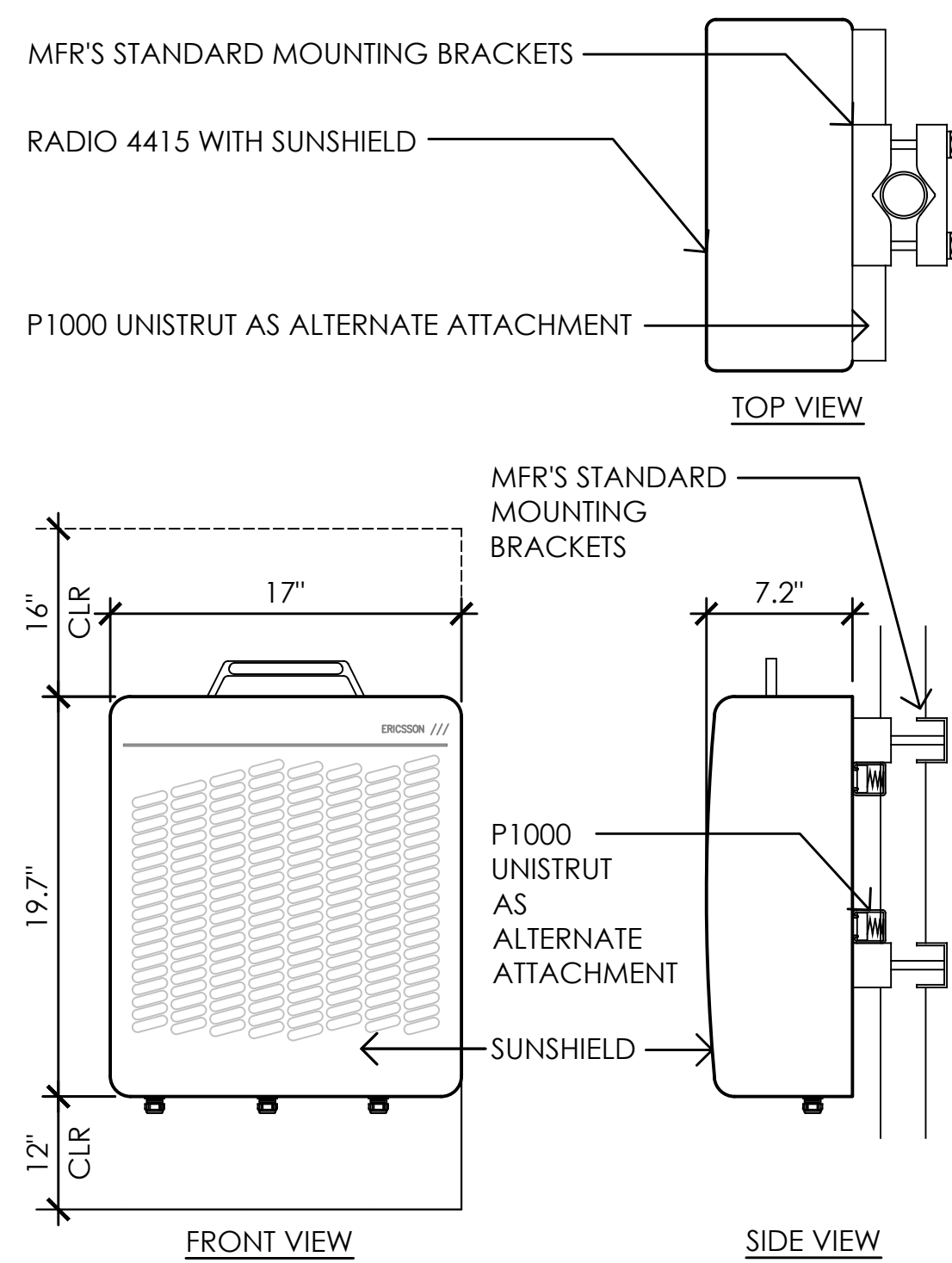
COLOR: WHITE  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP (INCLUDING SUNSHIELD)  
 WEIGHT: +/- 50 LBS. (INCLUDING MOUNTING HARDWARE)



**5** ERICSSON RADIO 4478 B5 REMOTE RADIO UNIT  
 1-1/2" = 1'-0"

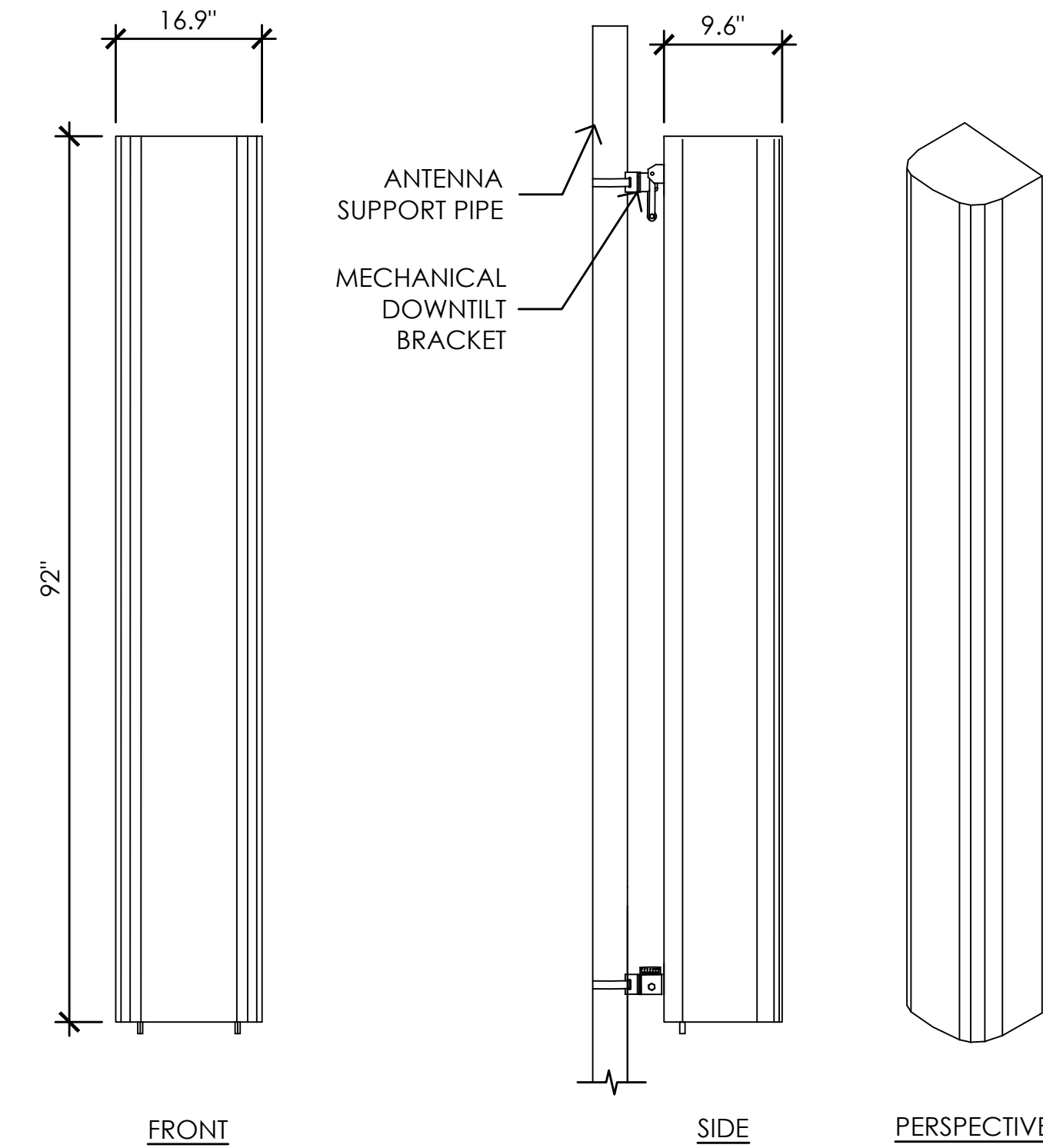
**ERICSSON RADIO 4415 B25 REMOTE RADIO UNIT**

COLOR: WHITE  
 DIMENSIONS: 16.5" TALL X 13.4" WIDE X 5.9" DEEP (INCLUDING SUNSHIELD)  
 WEIGHT: +/- 46 LBS. (INCLUDING MOUNTING HARDWARE)



**3** ERICSSON RADIO 4415 B25 REMOTE RADIO UNIT  
 1-1/2" = 1'-0"

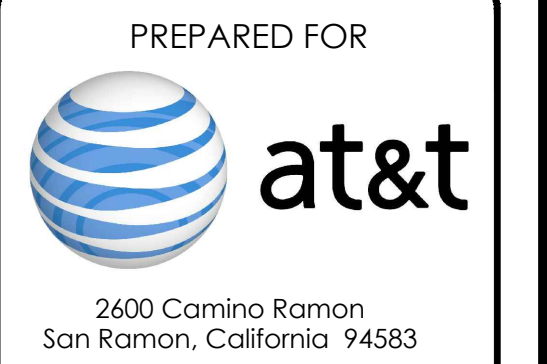
EQUIPMENT SUBJECT TO CHANGE



ANTENNA = QUINTEL (QS8458-5)  
 WEIGHT = 124.7 LBS  
 DIMENSIONS = 92" (H) x 16.9" (W) x 9.6" (D)

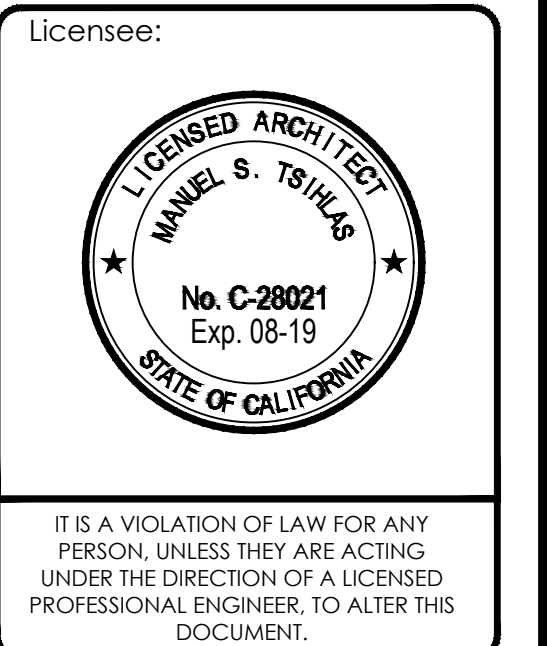
**1** PROPOSED ANTENNA SPEC  
 1" = 1'-0"

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**COLUMBUS ST. & RIVERSIDE**  
 716 COLUMBIA STREET  
 MADERA, CA. 93638



AT&T SITE NO: CVL01150  
 PROJECT NO: 162.2188  
 DRAWN BY: MWS  
 CHECKED BY: SV

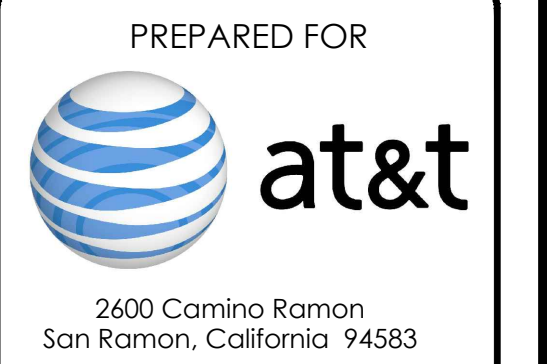
REV	DATE	DESCRIPTION
Δ	06/11/19	100% CD REV 4
Δ	05/24/19	100% CD REV 3
Δ	05/07/19	100% CD REV 2
Δ	02/08/19	100% CD PC 1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD



SHEET TITLE:  
**ANTENNA DETAILS**

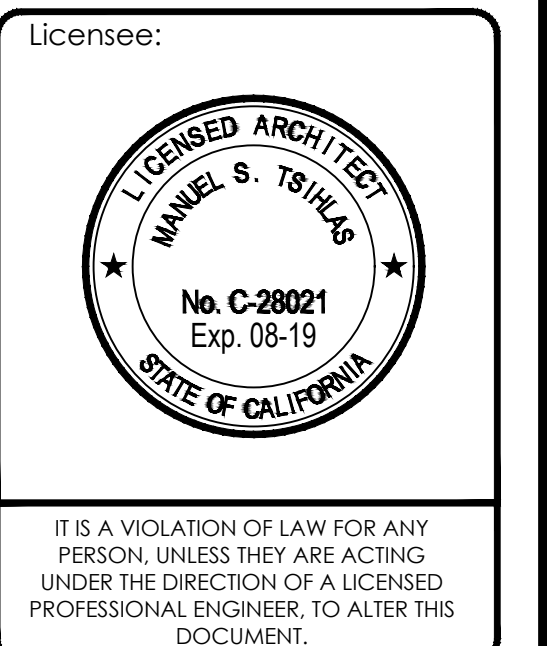
SHEET NUMBER:  
**A-3.4**

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**CVL01150**  
**COLUMBUS ST.**  
**& RIVERSIDE**  
 716 COLUMBIA STREET  
 MADERA, CA. 93638



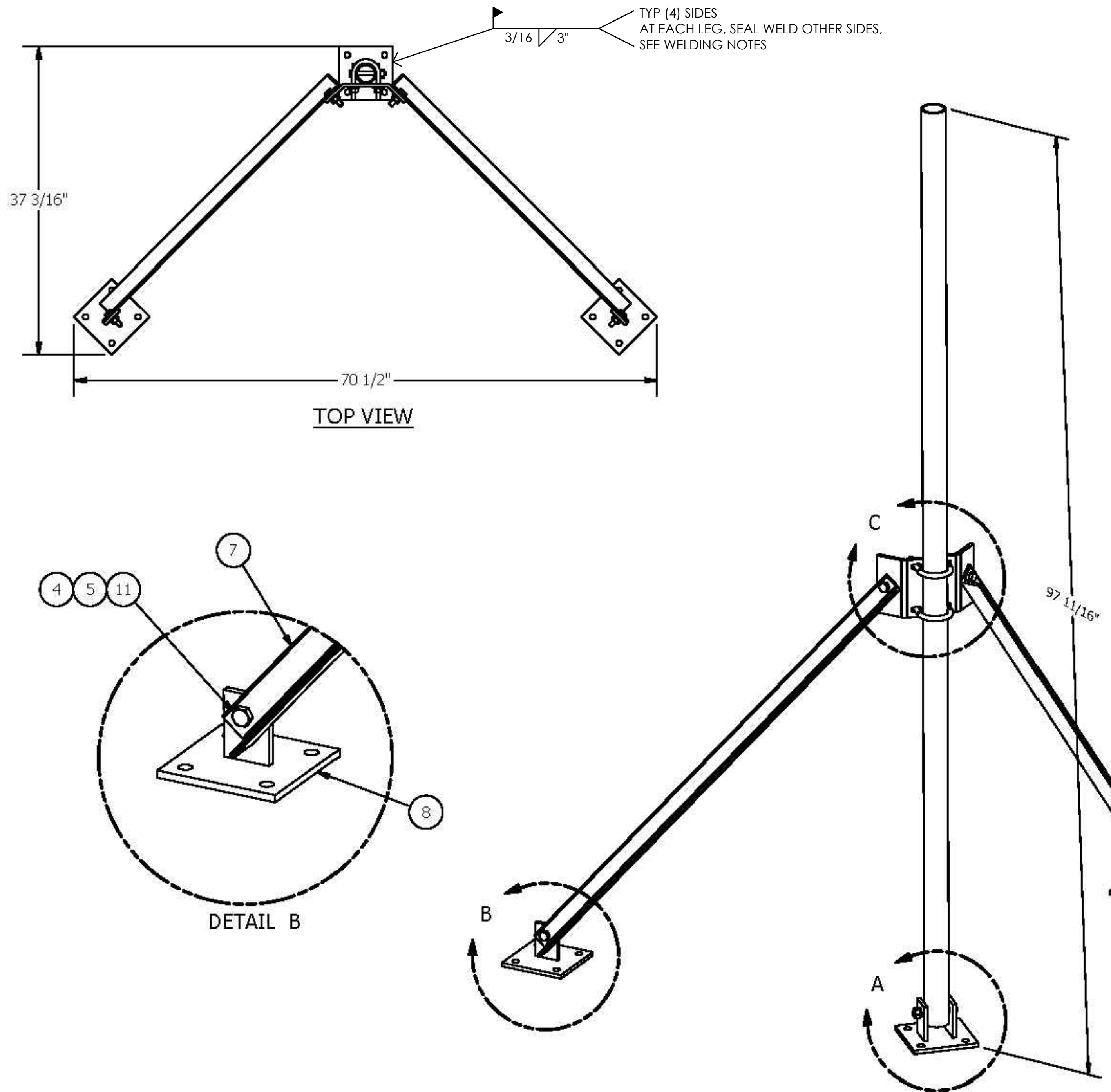
AT&T SITE NO: CVL01150  
 PROJECT NO: 162.2188  
 DRAWN BY: MWS  
 CHECKED BY: SV

REV	DATE	DESCRIPTION
Δ	06/11/19	100% CD REV4
Δ	05/24/19	100% CD REV3
Δ	05/07/19	100% CD REV2
Δ	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

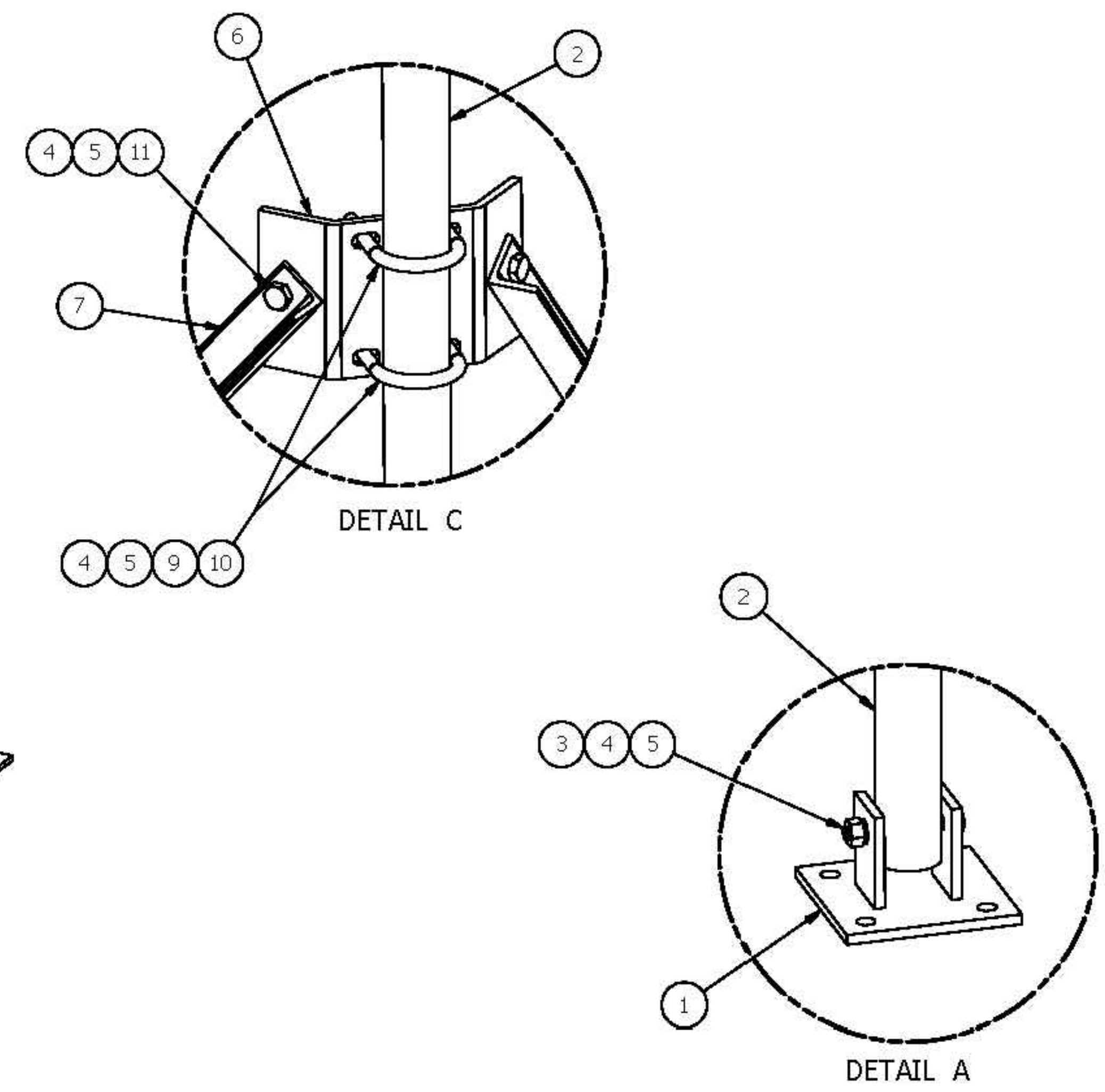


SHEET TITLE:  
**ANTENNA DETAILS**

SHEET NUMBER:  
**A-3.5**



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-WTT96-BS2	BASE SHOE WELDMENT		6.46	6.46
2	1	X-WTT96-P	PIPE MAST 2-3/8 O.D.	96 in	30.73	30.73
3	1	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	0.27
4	9	G12NJT	1/2" HDG HEAVY 2H-HEX NJT		0.07	0.64
5	9	G12LW	1/2" HDG LOCKWASHER		0.01	0.13
6	1	X-WTT96-BP	PIPE MOUNTING PLATE		7.22	7.22
7	2	X-WTT96-A	ANGLE DIAGONAL	60 in	16.86	33.73
8	2	X-WTT96-BS1	DIAGONAL SHOE WELDMENT		5.51	11.02
9	2	X-LB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	1.25
10	4	G12FW	1/2" HDG USS FLATWASHER		0.03	0.14
11	4	G1202	1/2" x 2" HDG HEX BOLT GR5	2 in	0.18	0.70
TOTAL WT. #						92.28



WELDING NOTES FOR WATER TANK:

1. WELDING PROCEDURES, WELDER CERTIFICATION, AND WELDING OPERATORS SHALL BE PER AWWA D100 SECTION A.8.2 & AWS D1.1.
2. PRIOR TO WELDING, WELDER SHALL VERIFY THAT CORROSION RESISTANCE OF EXTERIOR AND INTERIOR OF TANK CAN BE REPLACED/REPAIRED IN KIND.
3. PRIOR TO WELDING, VERIFY THE TANK CONTENTS ARE NON-COMBUSTIBLE AND THAT THE TANK IS NOT PRESSURIZED.
4. AT A MINIMUM, COLD GALVANIZE ALL WELDED COMPONENTS WITH A PREMIUM EXTERIOR PRIMER AND PAINT SUCH AS TNEPEC.

**TOLERANCE NOTES**  
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
 SAWS, SHEARED AND GAS CUT EDGES ( $\pm 0.030"$ )  
 DRILLED AND GAS CUT HOLES ( $\pm 0.030"$ ) - NO CONING OF HOLES  
 LASER CUT EDGES AND HOLES ( $\pm 0.010"$ ) - NO CONING OF HOLES  
 BENDS ARE  $\pm 1/2$  DEGREE  
 ALL OTHER MACHINING ( $\pm 0.030"$ )  
 ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

PROPRIETARY NOTE:  
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION			
<b>WTT96</b> WATER TANK TRIPOD ASSEMBLY			
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	KC8 6/8/2012		WTT96
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	01	CUSTOMER	CEK 7/10/2012

Locations:  
 New York, NY  
 Atlanta, GA  
 Los Angeles, CA  
 Plymouth, IN  
 Salem, OR  
 Dallas, TX

Engineering Support Team:  
 1-888-753-7446

A valmont company

PART NO. **WTT96**  
 DWG. NO. **WTT96**

1 OF 1 PAGE

## Hardware Overview

Featuring improved surge protection, the PowerBeam SAC Gen 2 is available in single- or five-packs.

- Innovative Mechanical Design**
- Built-in mechanical tilt:** Mounting bracket conveniently offers elevation adjustments: ± 20° tilt.
  - Quick assembly:** Minimal fasteners simplify installation.
  - Easy removal:** The antenna feed can be detached with the push of a button.

- Industrial-Strength Construction**
- Fasteners:** GEOMET-coated for improved corrosion resistance when compared with zinc-plated fasteners.
  - Dish and brackets:** Made of galvanized steel that is powder-coated for superior corrosion resistance. The hardware also prevents paint from being removed from the metal brackets for improved corrosion resistance.
  - Optional support:** In high-wind environments, you can enhance support with additional hardware (not included).



PowerBeam®  
400 mm Radome

Model	Frequency	PBE-SAC-Gen2	Dish Reflector
PBE-RAD-400	5 GHz	✓	400 mm

A protective radome is available as an optional accessory for the PBE-SAC-Gen2.



DATASHEET

PowerBeam TITANIUM SECTOR

DATASHEET

PowerBeam TITANIUM SECTOR

5

6

## Specifications

PBE-SAC-Gen2		
Dimensions		420 x 420 x 230 mm (16.54 x 16.54 x 9.06")
Weight		2.22 kg (4.89 lbs)
Power Supply		24V, 0.5A Gigabit PoE Adapter (included)
Max. Power Consumption		4.5W
Power Method		Passive PoE (Pairs 4, 5+7, 8 Return)
Supported Voltage Range		20 to 26VDC
Gain		25 dBi
Networking Interface		(1) 10/100/1000 Ethernet Port
Processor Specs		MIPS 746C
Memory		64 MB
LEDs		Power, Ethernet, (4) Signal Strength
Channel Sizes	PIP Mode	PUMP Mode
	10/20/30/40/50/60/80 MHz	10/20/30/40 MHz
Enclosure Characteristics	Antenna Feed	Dish Reflector
	Outdoor UV Stabilized Plastic	Powder-Coated SPCC
Mounting	Pole-Mounting Kit (Included)	
Wind Loading	380 N @ 200 km/h (85.4 lbf @ 125 mph)	
Wind Survivability	200 km/h (125 mph)	
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV	
Operating Temperature	-40 to 70° C (-40 to 158° F)	
Operating Humidity	5 to 95% Noncondensing	
RHES Compliance	Yes	
Salt Fog Test	IEC 68-2-11 (ASTM B117), Equivalent: MIL-STD-810 G Method 509.5	
Vibration Test	IEC 68-2-6	
Temperature Shock Test	IEC 68-2-14	
UV Test	IEC 68-2-5 at 40° C (104° F), Equivalent: ETS 300 019-1-4	
Wind Driven Rain Test	ETS 300 019-1-4, Equivalent: MIL-STD-810 G Method 506.5	
Certifications	CE, FCC, IC	

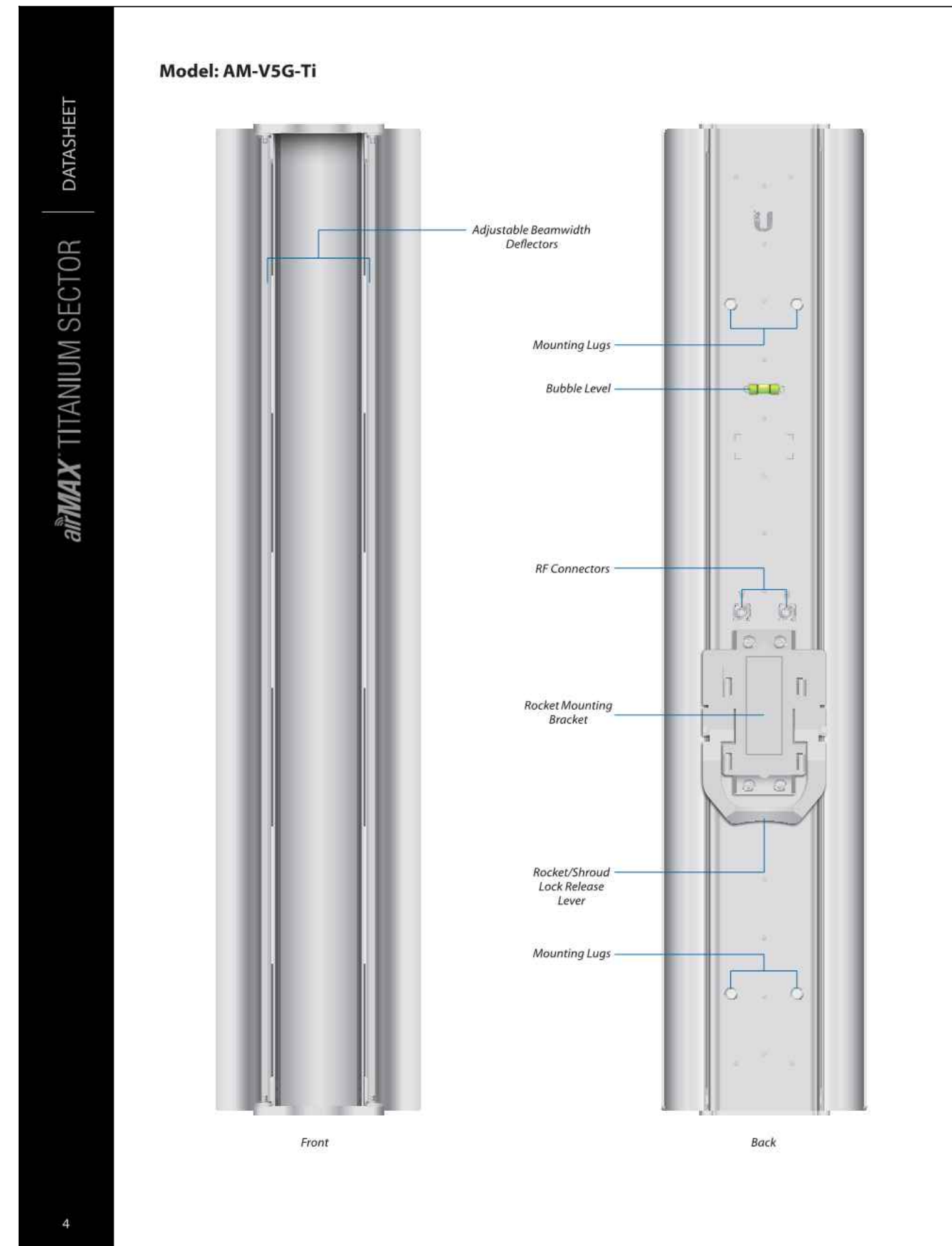
Operating Frequency (MHz)		
Worldwide		5150 - 5875
USA	U-NB-1 5150 - 5250	U-NB-2A 5250 - 5350 MHz
		U-NB-2C 5470 - 5725 MHz
		U-NB-3 5725 - 5850

Management Radio (MHz)		
Worldwide		2412 - 2472
USA		2412 - 2462

PBE-SAC-Gen2 Output Power: 24 dBm						
Modulation	TX Power Specifications			RX Power Specifications		
	Data Rate	Avg. TX	Tolerance	Data Rate	Sensitivity	Tolerance
airMAX ac	1x BPSK (1%)	24 dBm	± 2 dB	1x BPSK (1%)	-96 dBm Min.	± 2 dB
	2x QPSK (1%)	24 dBm	± 2 dB	2x QPSK (1%)	-95 dBm	± 2 dB
	2x QPSK (1%)	24 dBm	± 2 dB	2x QPSK (1%)	-92 dBm	± 2 dB
	4x 16QAM (1%)	24 dBm	± 2 dB	4x 16QAM (1%)	-90 dBm	± 2 dB
	4x 16QAM (1%)	24 dBm	± 2 dB	4x 16QAM (1%)	-86 dBm	± 2 dB
	6x 64QAM (1%)	23 dBm	± 2 dB	6x 64QAM (1%)	-83 dBm	± 2 dB
	6x 64QAM (1%)	23 dBm	± 2 dB	6x 64QAM (1%)	-77 dBm	± 2 dB
	6x 64QAM (1%)	22 dBm	± 2 dB	6x 64QAM (1%)	-74 dBm	± 2 dB
airMAX ac	8x 256QAM (1%)	20 dBm	± 2 dB	8x 256QAM (1%)	-69 dBm	± 2 dB
	8x 256QAM (1%)	20 dBm	± 2 dB	8x 256QAM (1%)	-65 dBm	± 2 dB

5

6



airMAX TITANIUM SECTOR

4

AM-V5G-Ti	
Dimensions	721 x 149.1 x 75.7 mm (28.39 x 5.87 x 2.98")
Weight (with Brackets)	3.72 kg (8.20 lb)
Frequency Range	5.45 - 5.85 GHz
Beamwidth Angles	60°/90°/120°
Gain (Beamwidth Dependent)	
60°	21 dBi
90°	20 dBi
120°	19 dBi
Elevation Beamwidth	4°
Electrical Downtilt	2°
Wind Survivability	200 km/h (125 mph)
Wind Loading	231 N @ 200 km/h (52 lbf @ 125 mph)
Polarization	Dual Linear
Cross-Pol Isolation	25 dB Typical
Front-to-Back Ratio	30 dB Typical
Max. VSWR	1.5:1
RF Connectors	2 RP-SMA Connectors (Weatherproof)
Compatible Radios	5 GHz Rocket
Mounting	Pole Mount (Kit Included)
ETS Specification	EN 302 326 DN2
Certifications	CE, FCC, IC

6

Issued For:

**CVL01150**  
**COLUMBUS ST.**  
**& RIVERSIDE**  
716 COLUMBIA STREET  
MADERA, CA. 93638

PREPARED FOR



2600 Camino Ramon  
San Ramon, California 94583

Vendor:



AT&T SITE NO: CVL01150

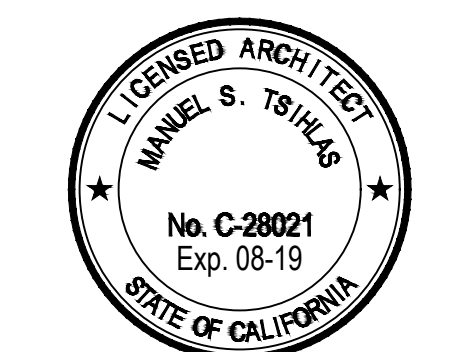
PROJECT NO: 162.2188

DRAWN BY: MWS

CHECKED BY: SV

REV	DATE	DESCRIPTION
△	06/11/19	100% CD REV4
△	05/24/19	100% CD REV3
△	05/07/19	100% CD REV2
△	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

Licensee:



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Architect:

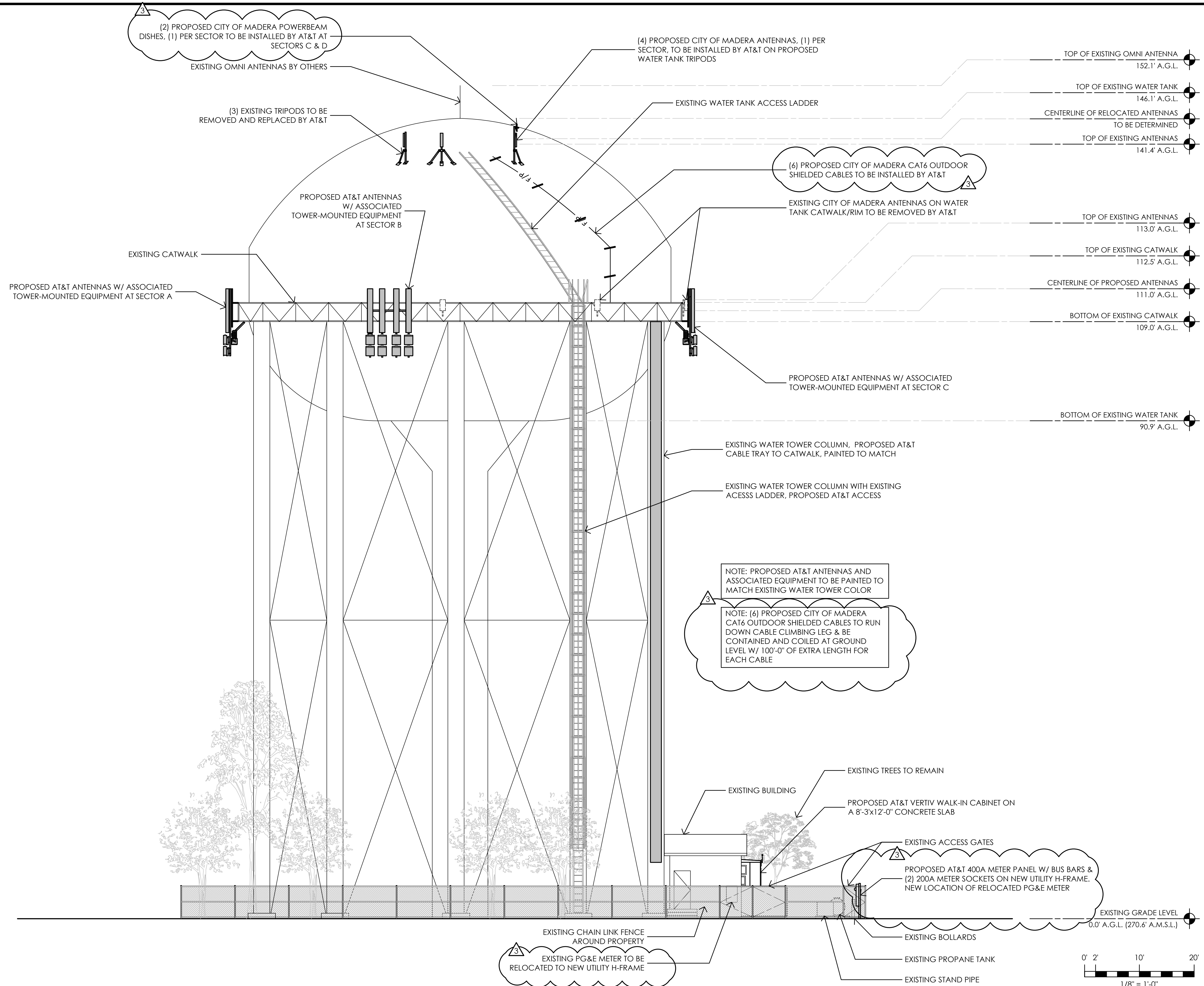


SHEET TITLE:

**ANTENNA**  
**DETAILS**

SHEET NUMBER:

**A-3.6**



(2) PROPOSED CITY OF MADERA POWERBEAM DISHES, (1) PER SECTOR TO BE INSTALLED BY AT&T AT SECTORS C & D

(4) PROPOSED CITY OF MADERA ANTENNAS, (1) PER SECTOR, TO BE INSTALLED BY AT&T ON PROPOSED WATER TANK TRIPODS

(3) EXISTING TRIPODS TO BE REMOVED AND REPLACED BY AT&T

(6) PROPOSED CITY OF MADERA CAT6 OUTDOOR SHIELDED CABLES TO BE INSTALLED BY AT&T

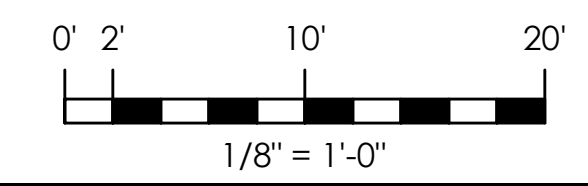
- TOP OF EXISTING OMNI ANTENNA 152.1' A.G.L.
- TOP OF EXISTING WATER TANK 146.1' A.G.L.
- CENTERLINE OF RELOCATED ANTENNAS TO BE DETERMINED
- TOP OF EXISTING ANTENNAS 141.4' A.G.L.
- TOP OF EXISTING ANTENNAS 113.0' A.G.L.
- TOP OF EXISTING CATWALK 112.5' A.G.L.
- CENTERLINE OF PROPOSED ANTENNAS 111.0' A.G.L.
- BOTTOM OF EXISTING CATWALK 109.0' A.G.L.
- BOTTOM OF EXISTING WATER TANK 90.9' A.G.L.

NOTE: PROPOSED AT&T ANTENNAS AND ASSOCIATED EQUIPMENT TO BE PAINTED TO MATCH EXISTING WATER TOWER COLOR

NOTE: (6) PROPOSED SHIELDED CITY OF MADERA CAT6 OUTDOOR SHIELDED CABLES TO RUN DOWN CABLE CLIMBING LEG & BE CONTAINED AND COILED AT GROUND LEVEL W/ 100'-0" OF EXTRA LENGTH FOR EACH CABLE

PROPOSED AT&T 400A METER PANEL W/ BUS BARS & (2) 200A METER SOCKETS ON NEW UTILITY H-FRAME. NEW LOCATION OF RELOCATED PG&E METER

1 NORTH ELEVATION  
1/8" = 1'-0"

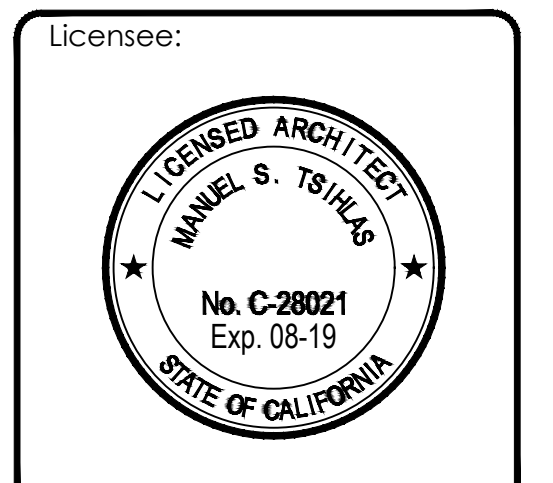


Issued For:  
**CVL01150**  
**COLUMBUS ST. & RIVERSIDE**  
716 COLUMBIA STREET  
MADERA, CA. 93638



AT&T SITE NO: CVL01150  
PROJECT NO: 162.2188  
DRAWN BY: MWS  
CHECKED BY: SV

REV	DATE	DESCRIPTION
△	06/11/19	100% CD REV4
△	05/24/19	100% CD REV3
△	05/07/19	100% CD REV2
△	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

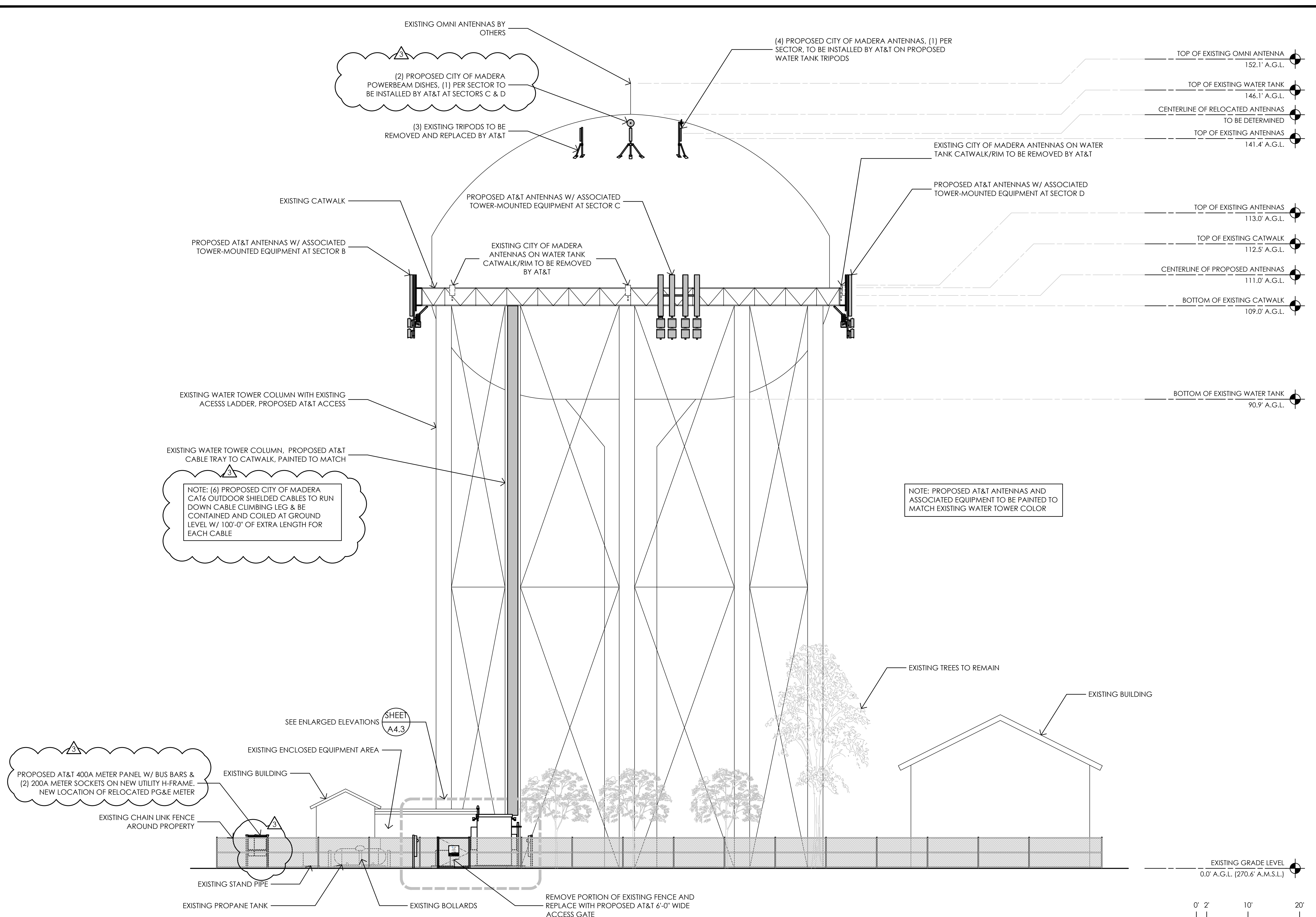


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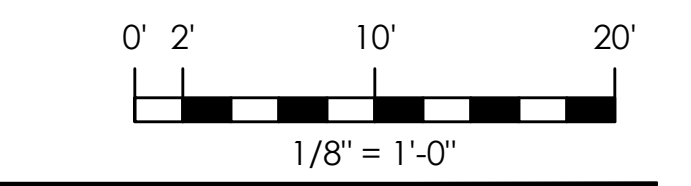


SHEET TITLE:  
**PROPOSED ELEVATIONS**

SHEET NUMBER:  
**A-4.1**



1 WEST ELEVATION  
1/8" = 1'-0"



Issued For:  
**CVL01150**  
**COLUMBUS ST.**  
**& RIVERSIDE**  
 716 COLUMBIA STREET  
 MADERA, CA. 93638

PREPARED FOR

2600 Camino Ramon  
 San Ramon, California 94583

Vendor:

**COMPLETE**  
 Wireless Consulting, Inc.

AT&T SITE NO: CVL01150  
 PROJECT NO: 162.2188  
 DRAWN BY: MWS  
 CHECKED BY: SV

REV	DATE	DESCRIPTION
Δ	06/11/19	100% CD REV4
Δ	05/24/19	100% CD REV3
Δ	05/07/19	100% CD REV2
Δ	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

Licensee:

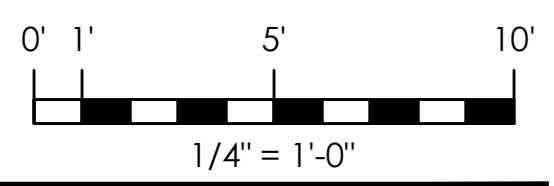
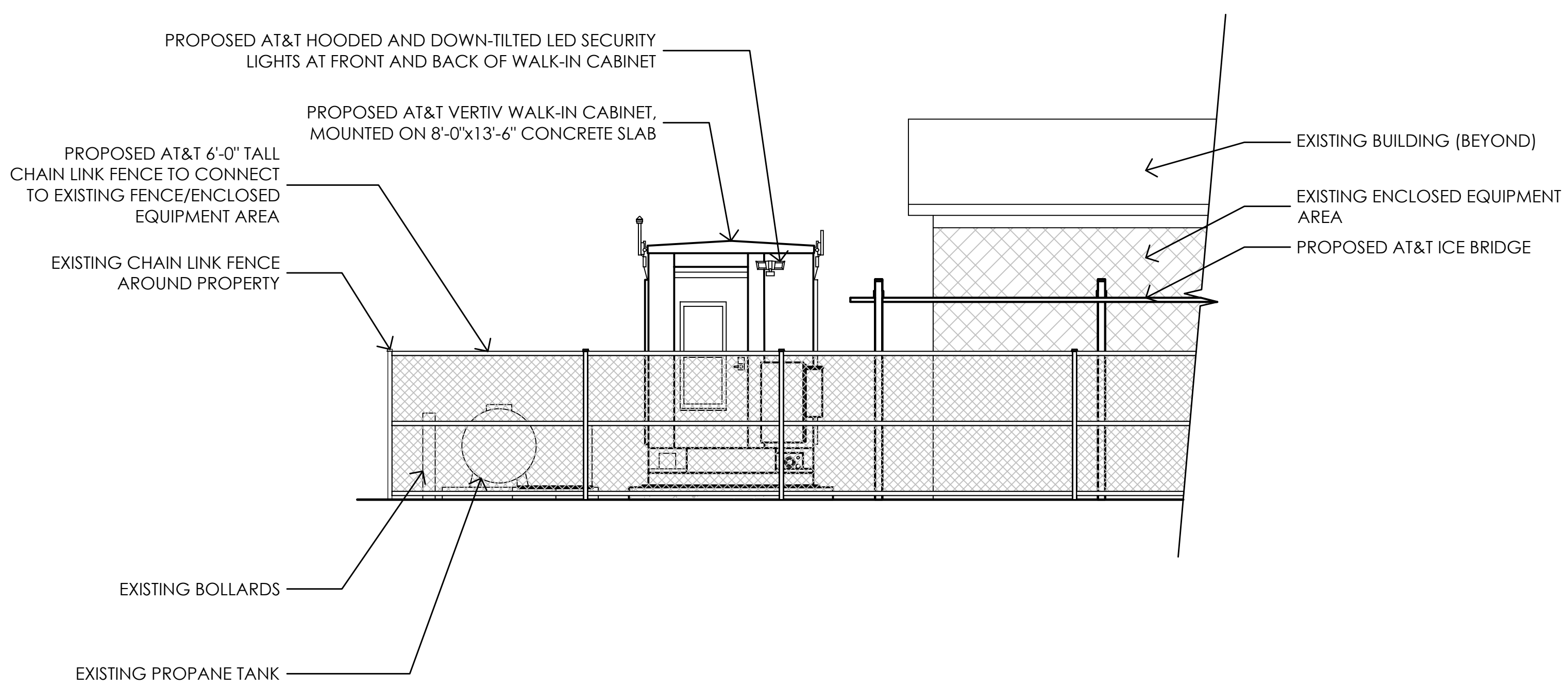
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

Architect:

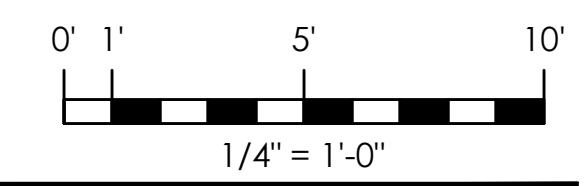
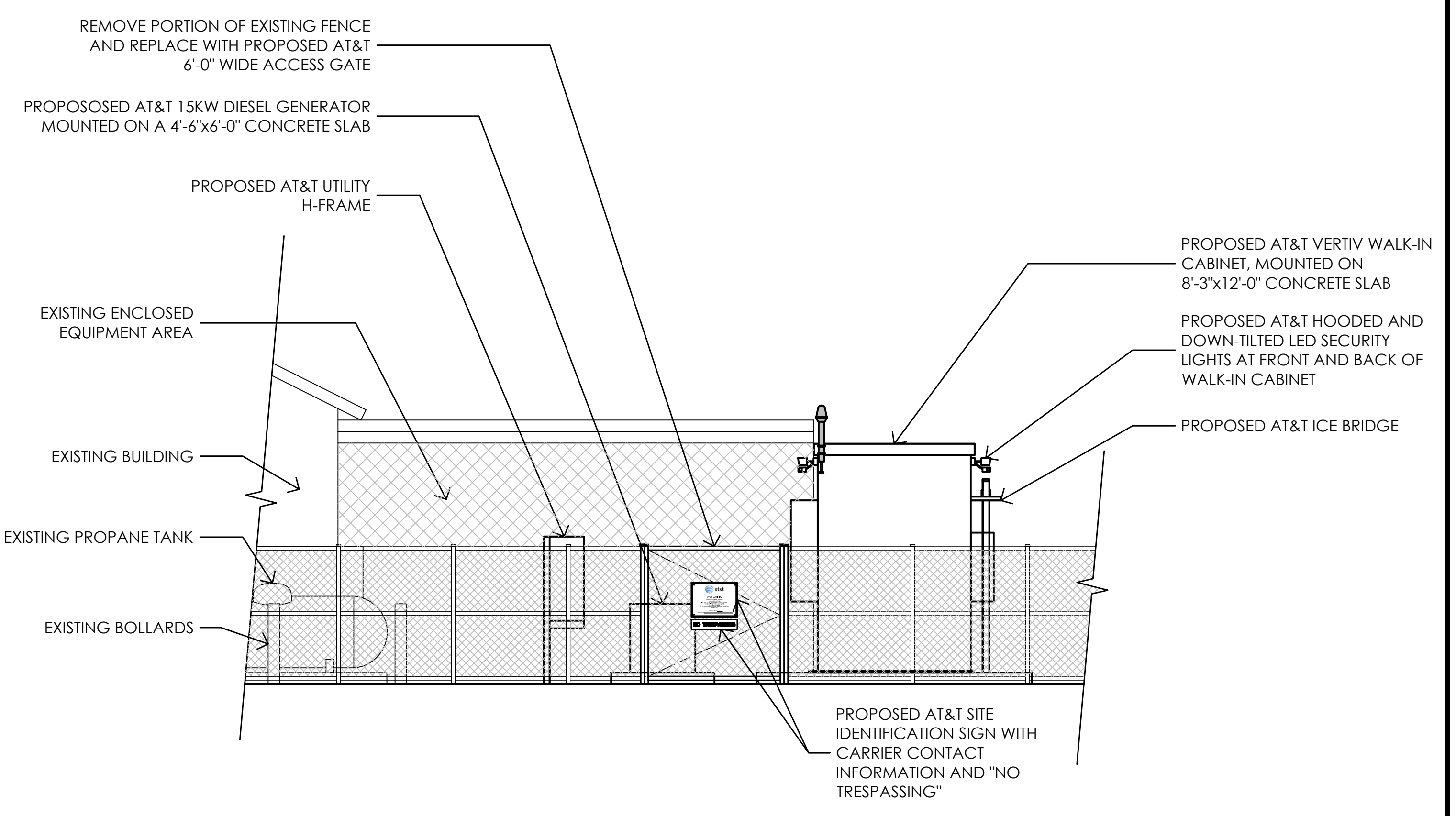
**MST ARCHITECTS**  
 1520 River Park Drive  
 Sacramento, California 95815

SHEET TITLE:  
**PROPOSED ELEVATIONS**

SHEET NUMBER:  
**A-4.2**




2 ENLARGED SOUTH ELEVATION  
1/4" = 1'-0"



1 ENLARGED WEST ELEVATION  
1/4" = 1'-0"


Issued For:  
**CVL01150**  
**COLUMBUS ST.**  
**& RIVERSIDE**  
 716 COLUMBIA STREET  
 MADERA, CA. 93638

PREPARED FOR  
  
 2600 Camino Ramon  
 San Ramon, California 94583

Vendor:  


AT&T SITE NO: CVL01150  
 PROJECT NO: 162.2188  
 DRAWN BY: MWS  
 CHECKED BY: SV

REV	DATE	DESCRIPTION
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△	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

Licensee:  


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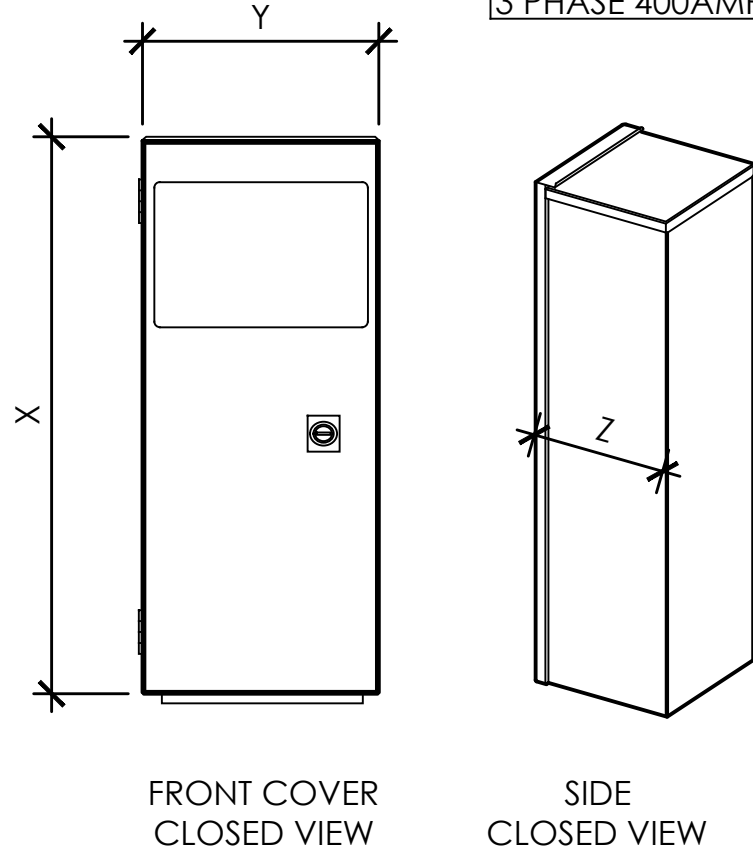
Architect:  
  
 1520 River Park Drive  
 Sacramento, California 95815

SHEET TITLE:  
**PROPOSED ELEVATIONS**

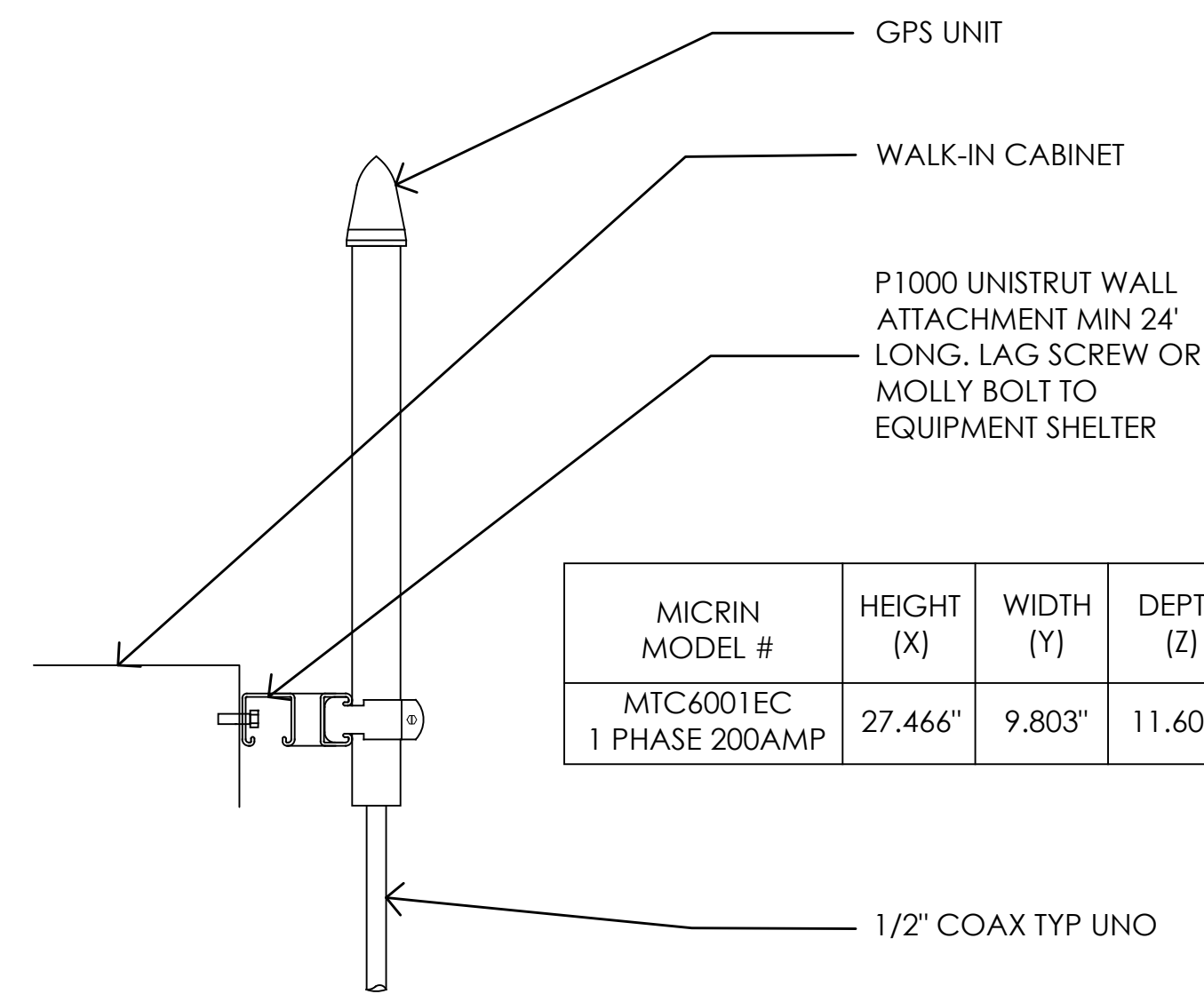
SHEET NUMBER:  
**A-4.3**



MICRIN MODEL #	HEIGHT (X)	WIDTH (Y)	DEPTH (Z)
MTC6001EC 1 PHASE 200AMP	27.466"	9.803"	11.604"
MTC6001ESH 1 PHASE 400AMP	28.914"	21.267"	9.792"
MTC6003EC 3 PHASE 200AMP	27.466"	9.803"	11.604"
MTC6001ESH 3 PHASE 400AMP	28.914"	24.142"	9.792"

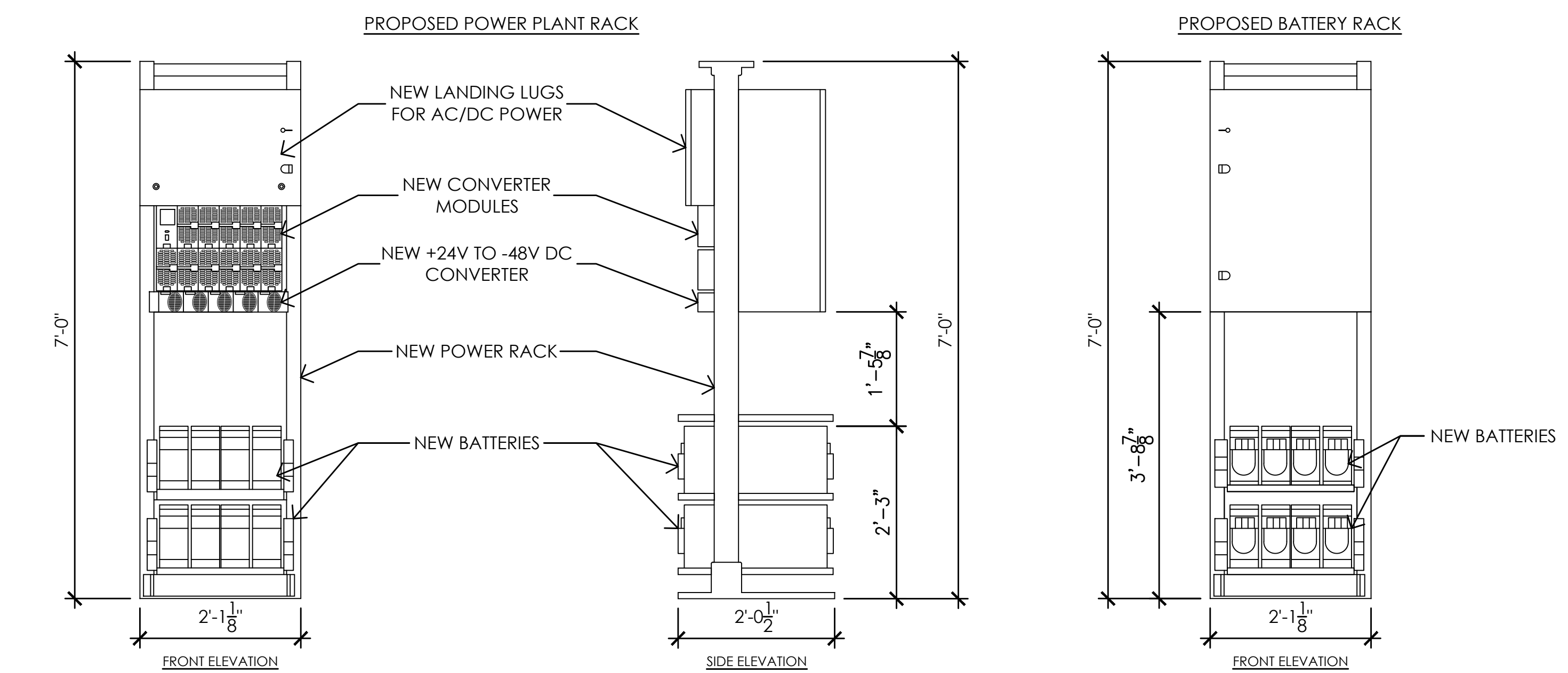


8 MICRIN GENERATOR INTERFACE  
NO SCALE



6 GPS MOUNTING DETAIL  
NOT TO SCALE

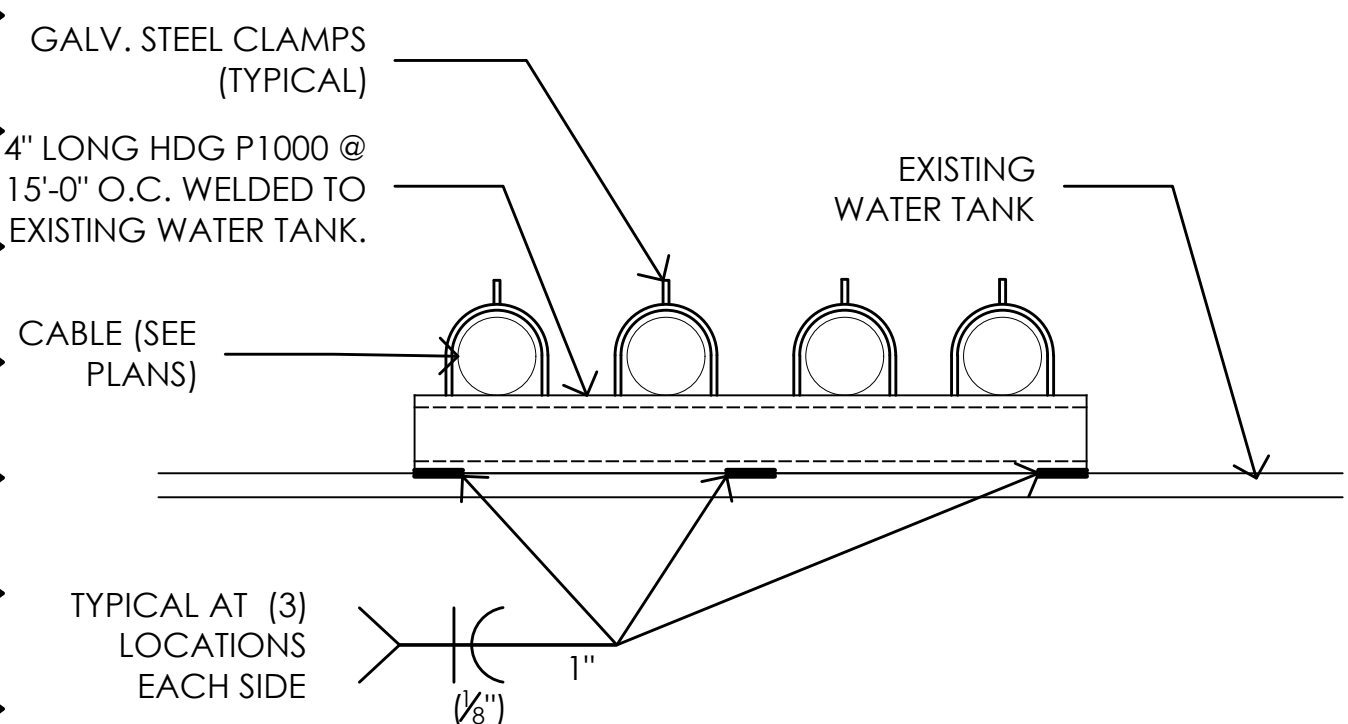
MICRIN MODEL #	HEIGHT (X)	WIDTH (Y)	DEPTH (Z)
MTC6001EC 1 PHASE 200AMP	27.466"	9.803"	11.604"



3 INTERIOR POWER PLANT AND BATTERY RACKS  
3/4" = 1'-0"

WELDING NOTES FOR WATER TANK:

1. WELDING PROCEDURES, WELDER CERTIFICATION, AND WELDING OPERATORS SHALL BE PER AWWA D100 SECTION A.8.2 & AWS D1.1.
2. PRIOR TO WELDING, WELDER SHALL VERIFY THAT CORROSION RESISTANCE OF EXTERIOR AND INTERIOR OF TANK CAN BE REPLACED/REPAIRED IN KIND.
3. PRIOR TO WELDING, VERIFY THE TANK CONTENTS ARE NON-COMBUSTIBLE AND THAT THE TANK IS NOT PRESSURIZED.
4. AT A MINIMUM, COLD GALVANIZE ALL WELDED COMPONENTS WITH A PREMIUM EXTERIOR PRIMER AND PAINT SUCH AS TNEMEC.



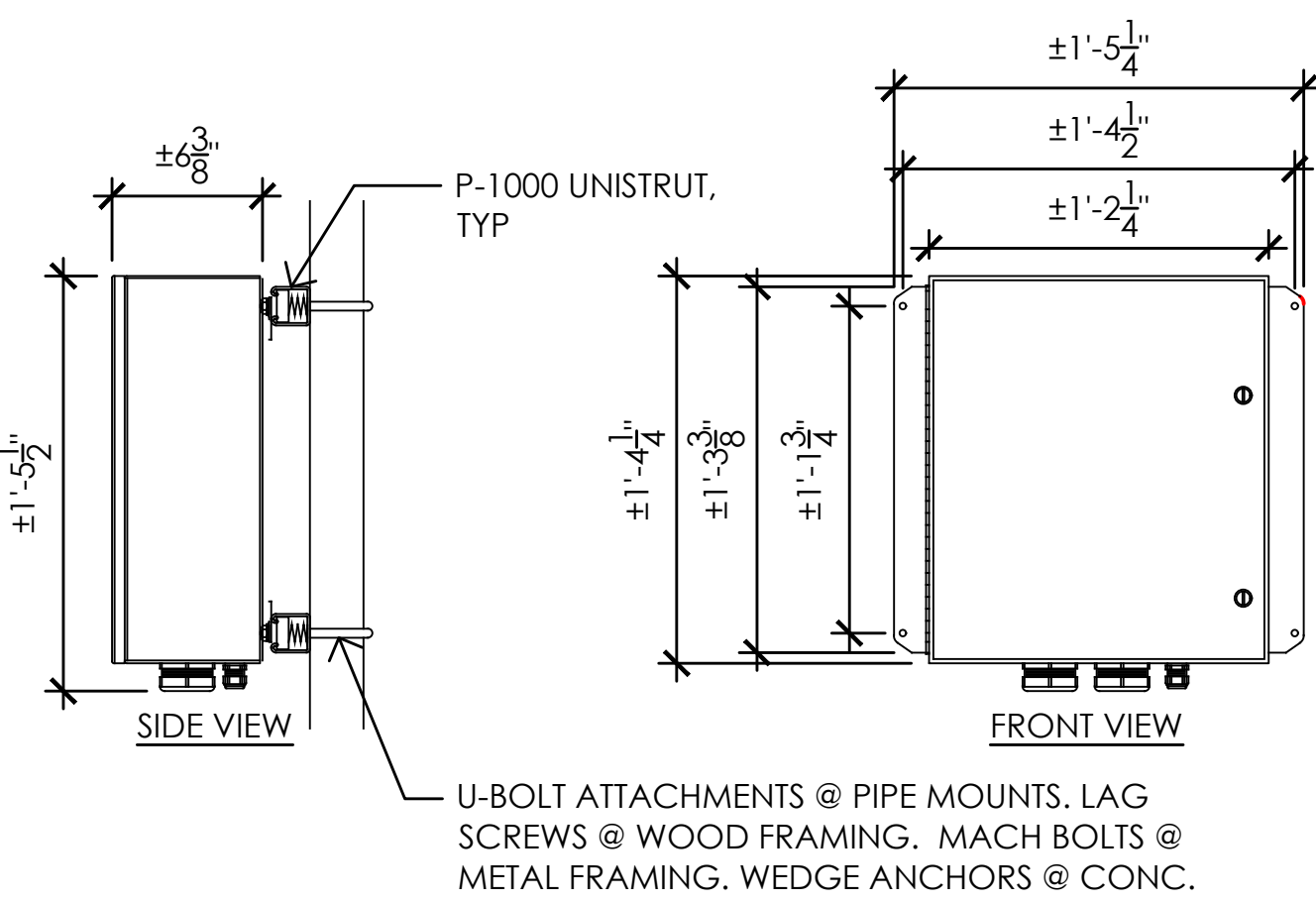
7 UNISTRUT CABLE MOUNTING DETAIL  
3/8" = 1'-0"

RAYCAP DC6-48-60-0-1E FIBER DC POWER CONNECTION

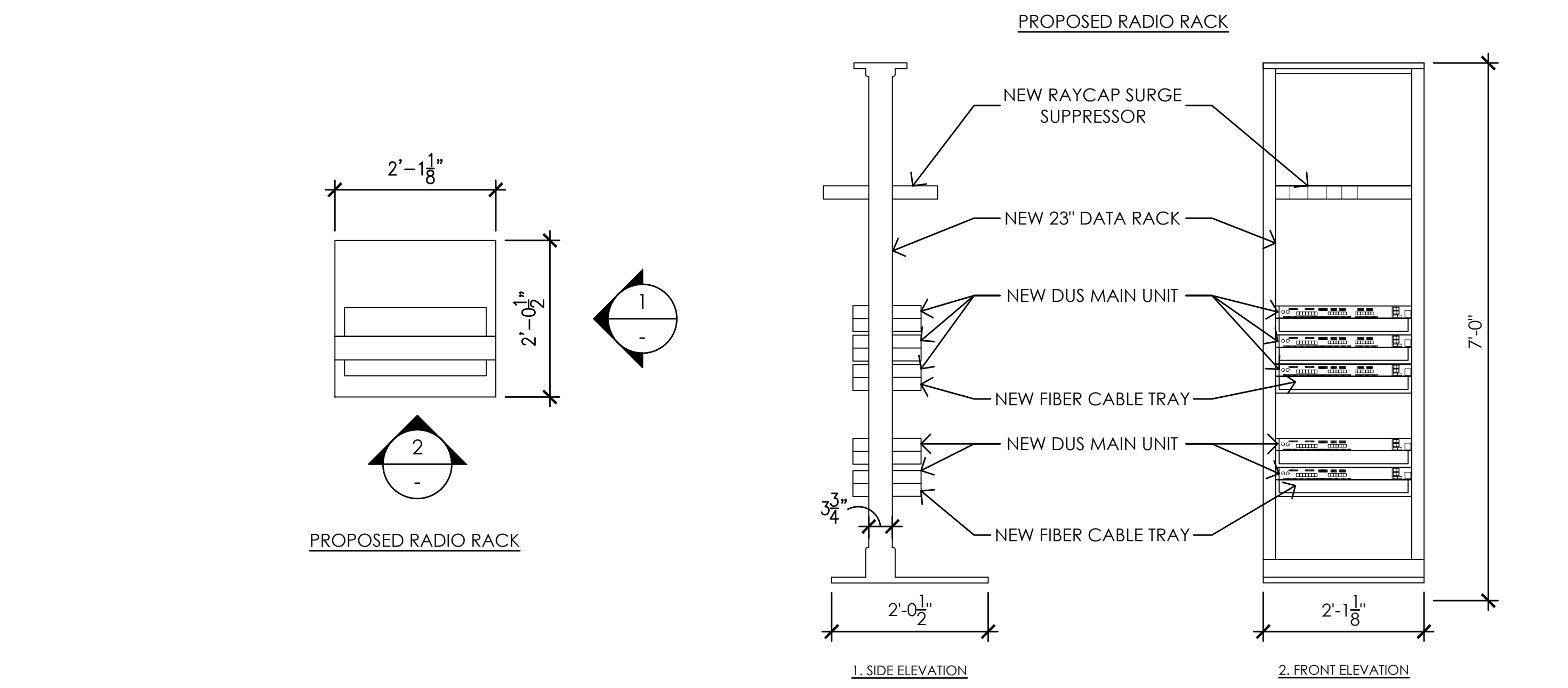
COLOR: LIGHT TAN

DIMENSIONS: 17.23" WIDE X 16.28" TALL X 6.33" DEEP

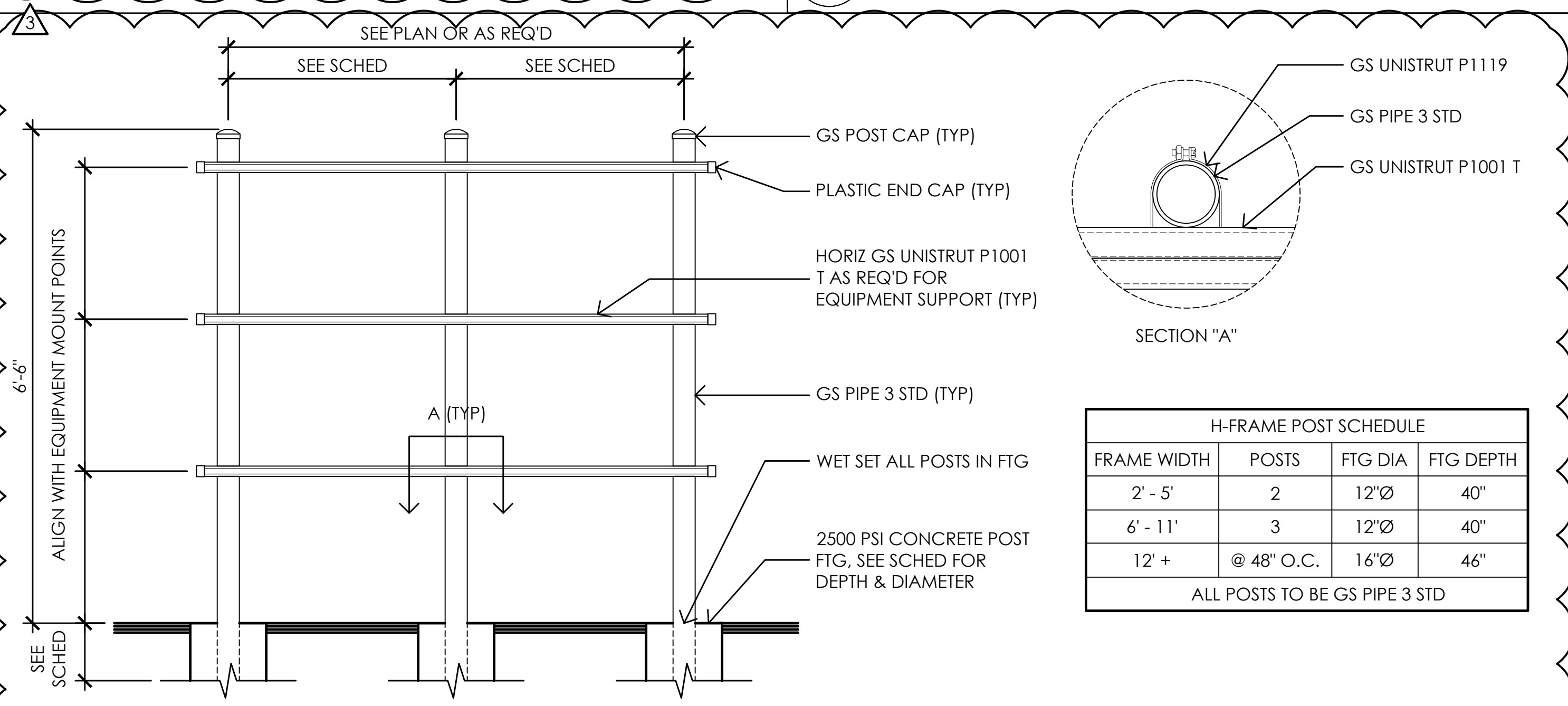
WIEGHT: +/- 35 LBS. (INCLUDING MOUNTING HARDWARE)



5 DC6 POWER CONNECTION  
1-1/2" = 1'-0"



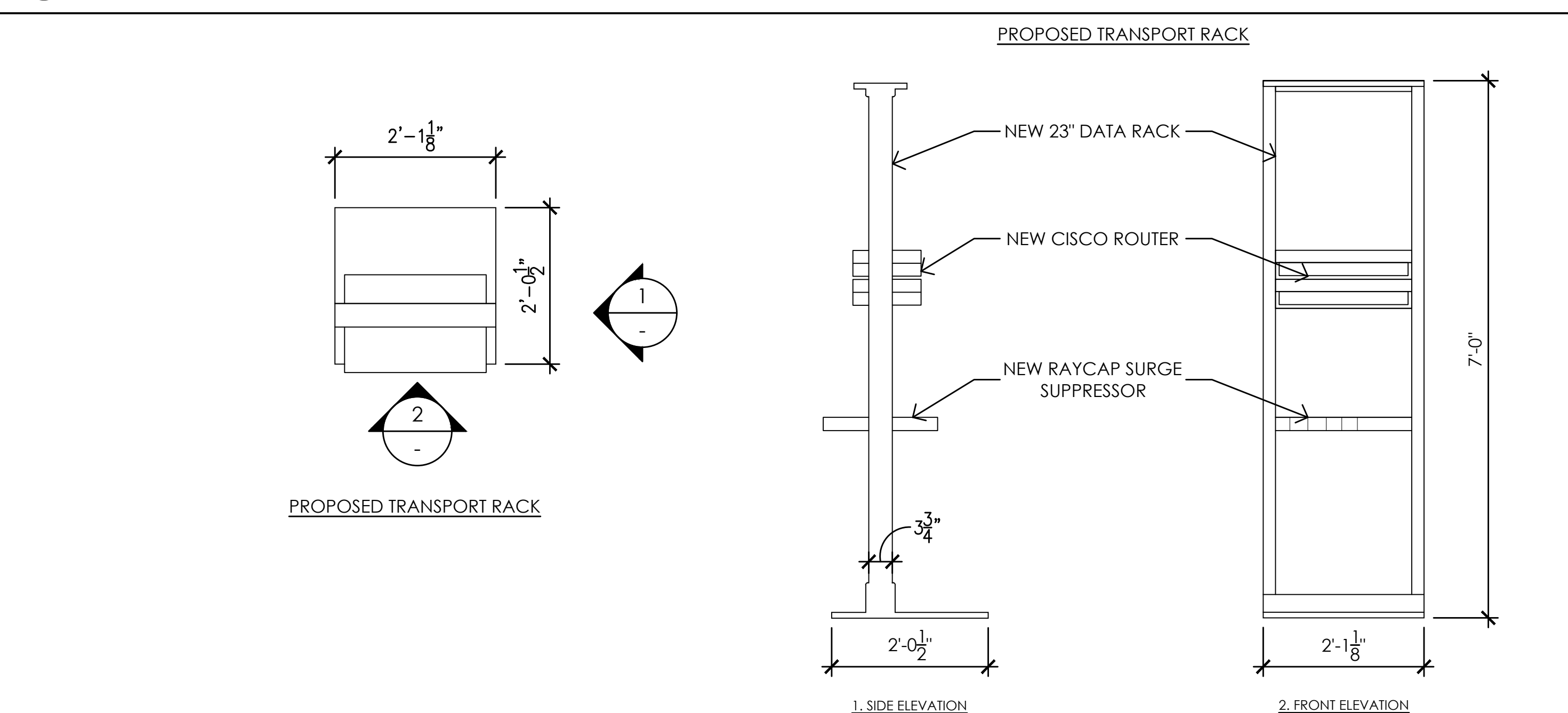
2 INTERIOR RADIO RACK  
3/4" = 1'-0"



H-FRAME POST SCHEDULE			
FRAME WIDTH	POSTS	FTG DIA	FTG DEPTH
2' - 5'	2	12"Ø	40"
6' - 11'	3	12"Ø	40"
12' +	@ 48" O.C.	16"Ø	46"

ALL POSTS TO BE GS PIPE 3 STD

4 TYPICAL EQUIPMENT H-FRAME  
3/4" = 1'-0"



1 INTERIOR TRANSPORT RACK  
3/4" = 1'-0"

Issued For:  
**CVL01150**  
**COLUMBUS ST. & RIVERSIDE**  
716 COLUMBIA STREET  
MADERA, CA. 93638

PREPARED FOR  
 **at&t**  
2600 Camino Ramon  
San Ramon, California 94583

Vendor:  
 **COMPLETE**  
Wireless Consulting, Inc.

AT&T SITE NO: CVL01150  
PROJECT NO: 162.2188  
DRAWN BY: MWS  
CHECKED BY: SST

REV	DATE	DESCRIPTION
Δ	06/11/19	100% CD REV 4
Δ	05/24/19	100% CD REV 3
Δ	05/07/19	100% CD REV 2
Δ	02/08/19	100% CD PC 1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

Licensee:  
 **MANUEL S. TSINGAS**  
No. C-28021  
Exp. 08-19  
STATE OF CALIFORNIA

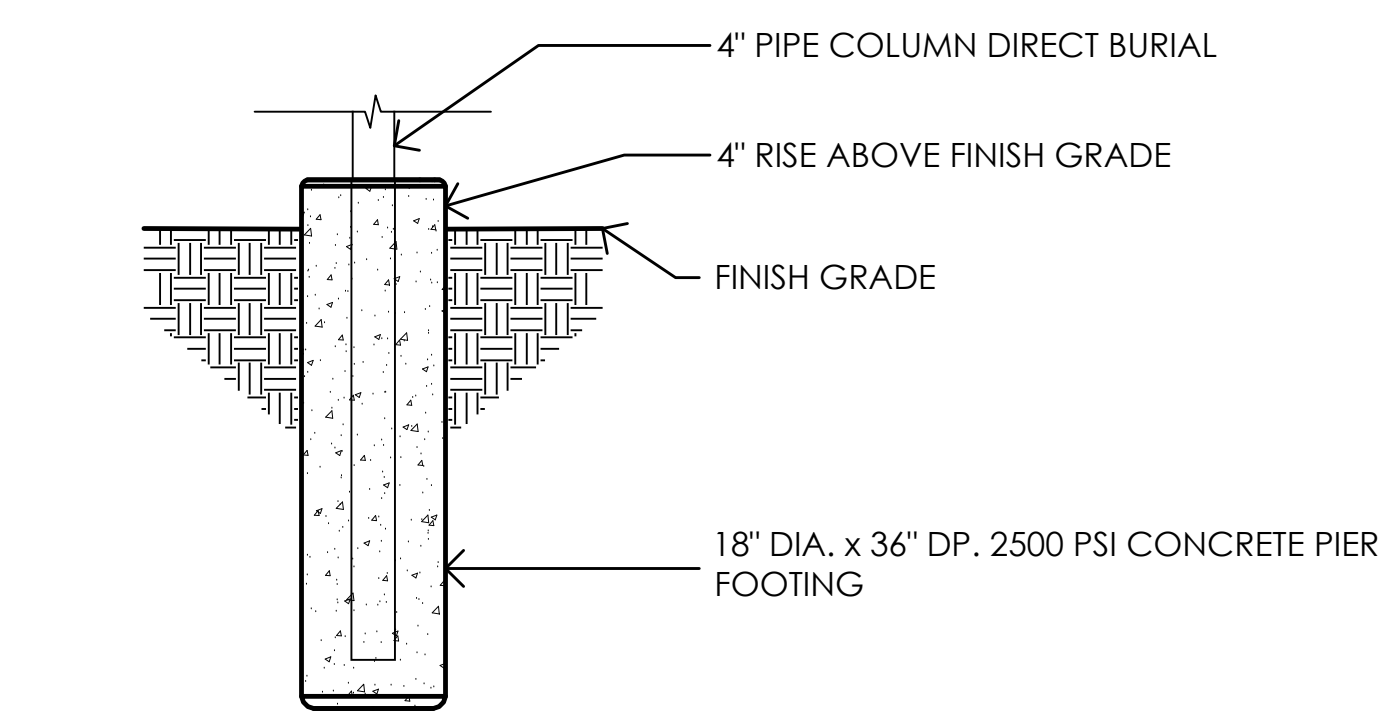
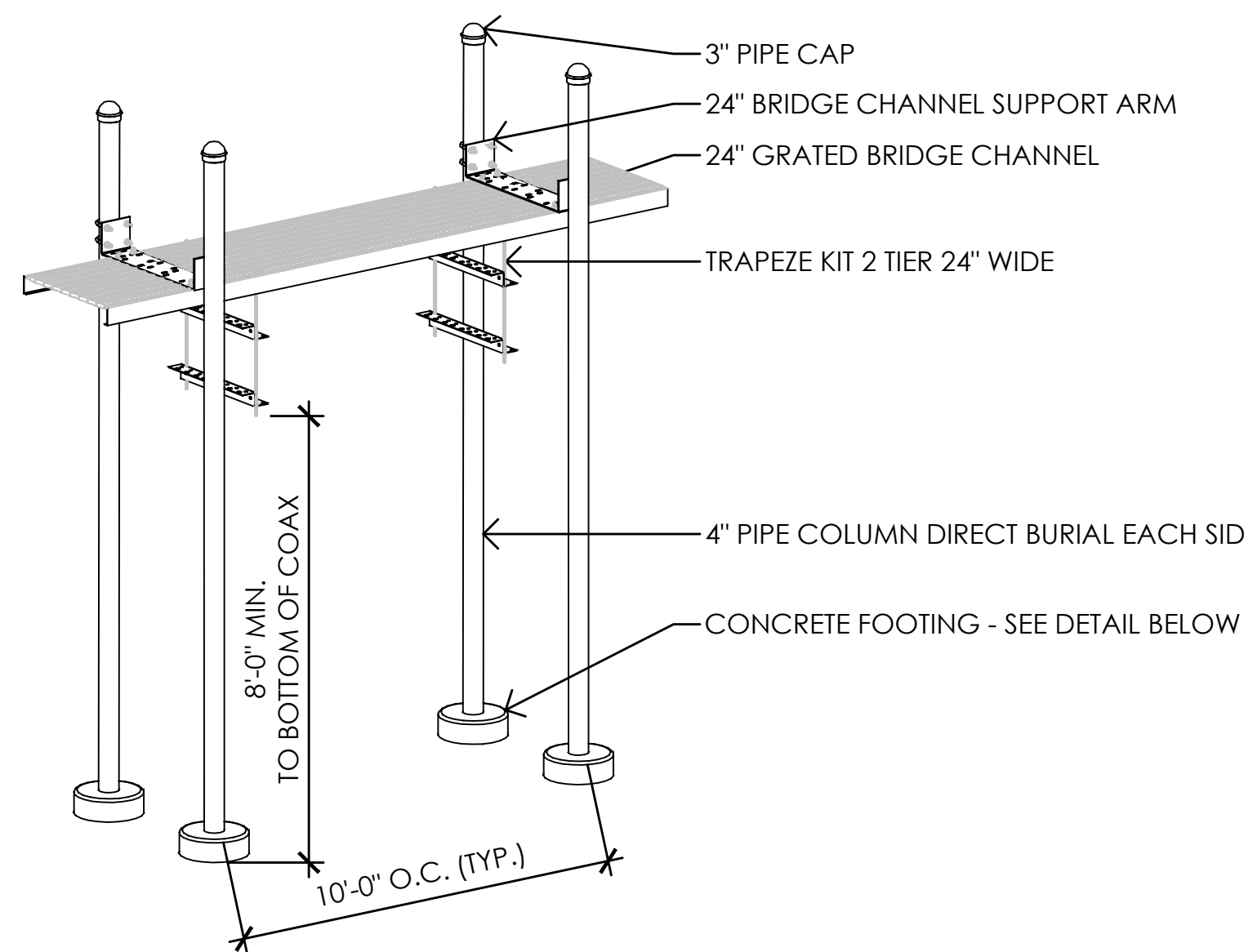
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

Architect:  
 **MST ARCHITECTS**  
1520 River Park Drive  
Sacramento, California 95815

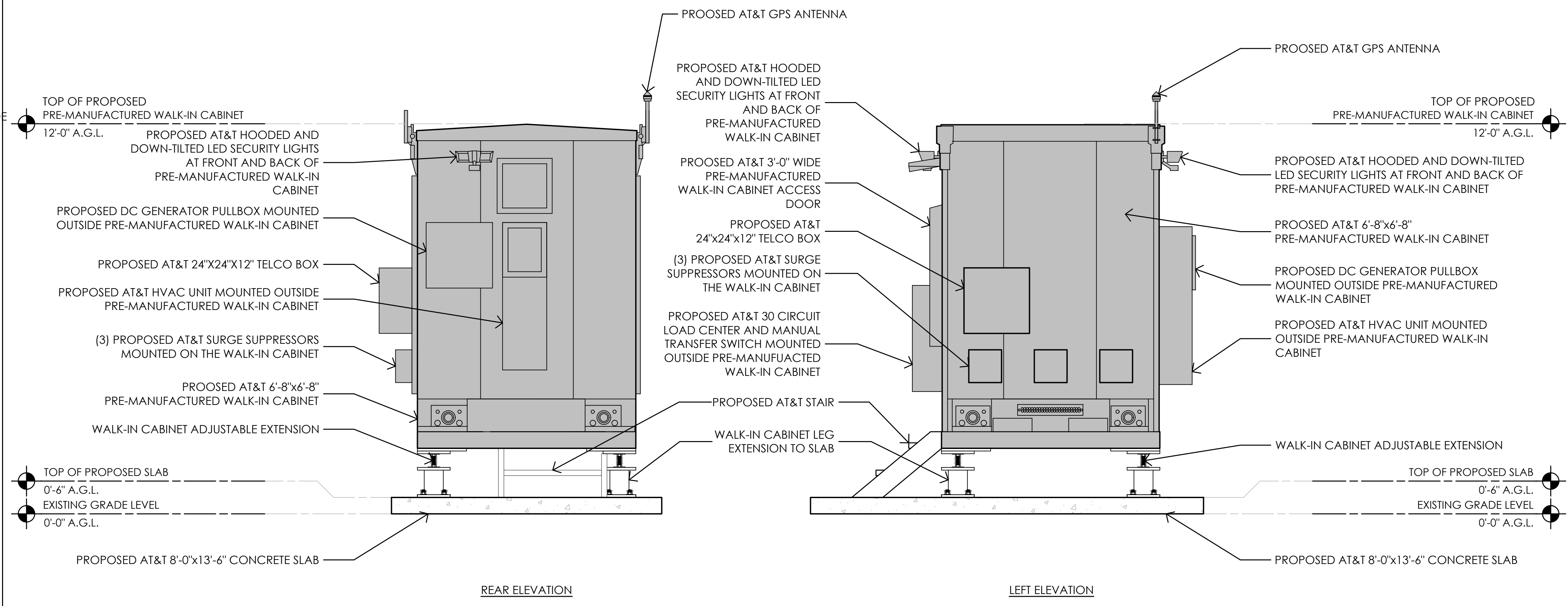
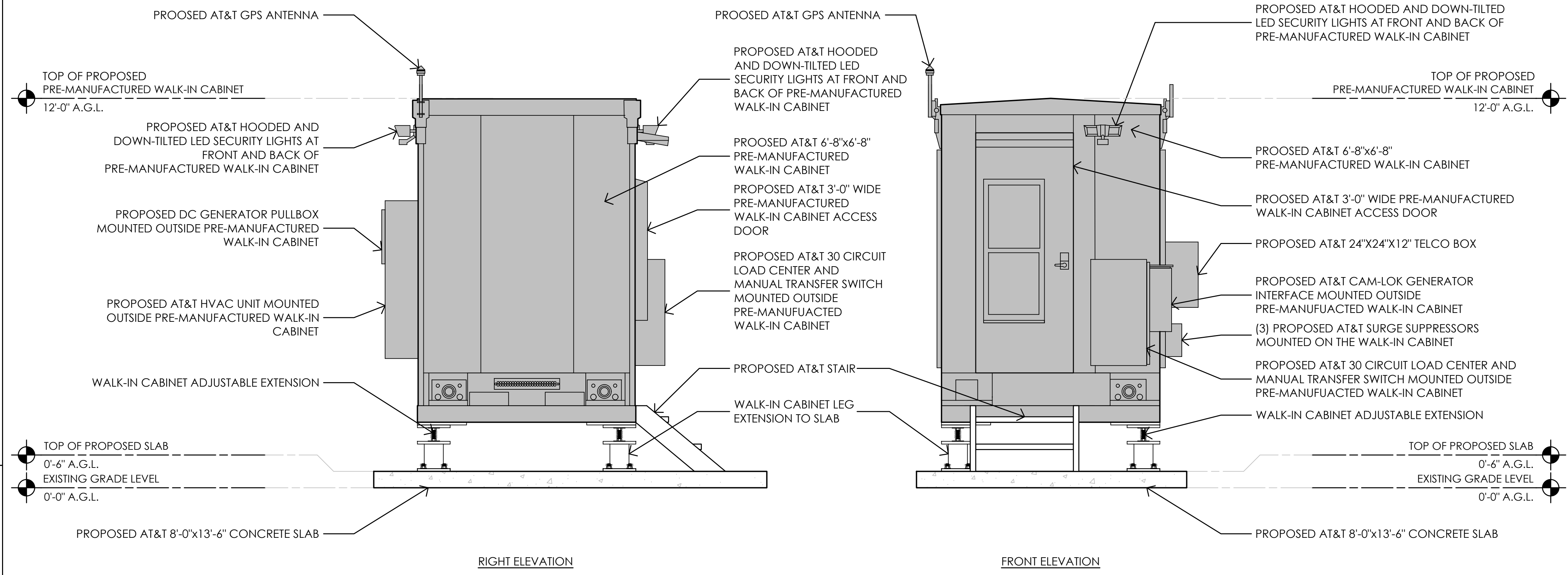
SHEET TITLE:  
**CONSTRUCTION**  
DETAILS -  
EQUIPMENT

SHEET NUMBER:  
**A-5.0**

3 NOT USED  
NOT TO SCALE



2 ICE BRIDGE DETAIL  
NONE



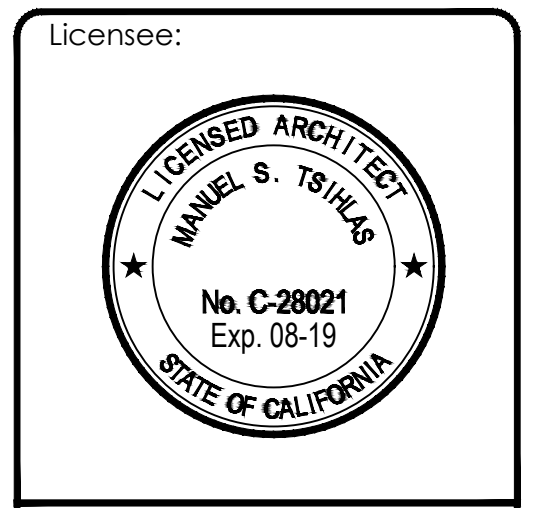
1 PRE-MANUFACTURED PRE-MANUFACTURED WALK-IN CABINET ELEVATIONS  
1/2" = 1'-0"

Issued For:  
**CVL01150**  
**COLUMBUS ST. & RIVERSIDE**  
716 COLUMBIA STREET  
MADERA, CA. 93638



AT&T SITE NO: CVL01150  
PROJECT NO: 162.2188  
DRAWN BY: MWS  
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REV	DATE	DESCRIPTION
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Δ	05/07/19	100% CD REV2
Δ	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD



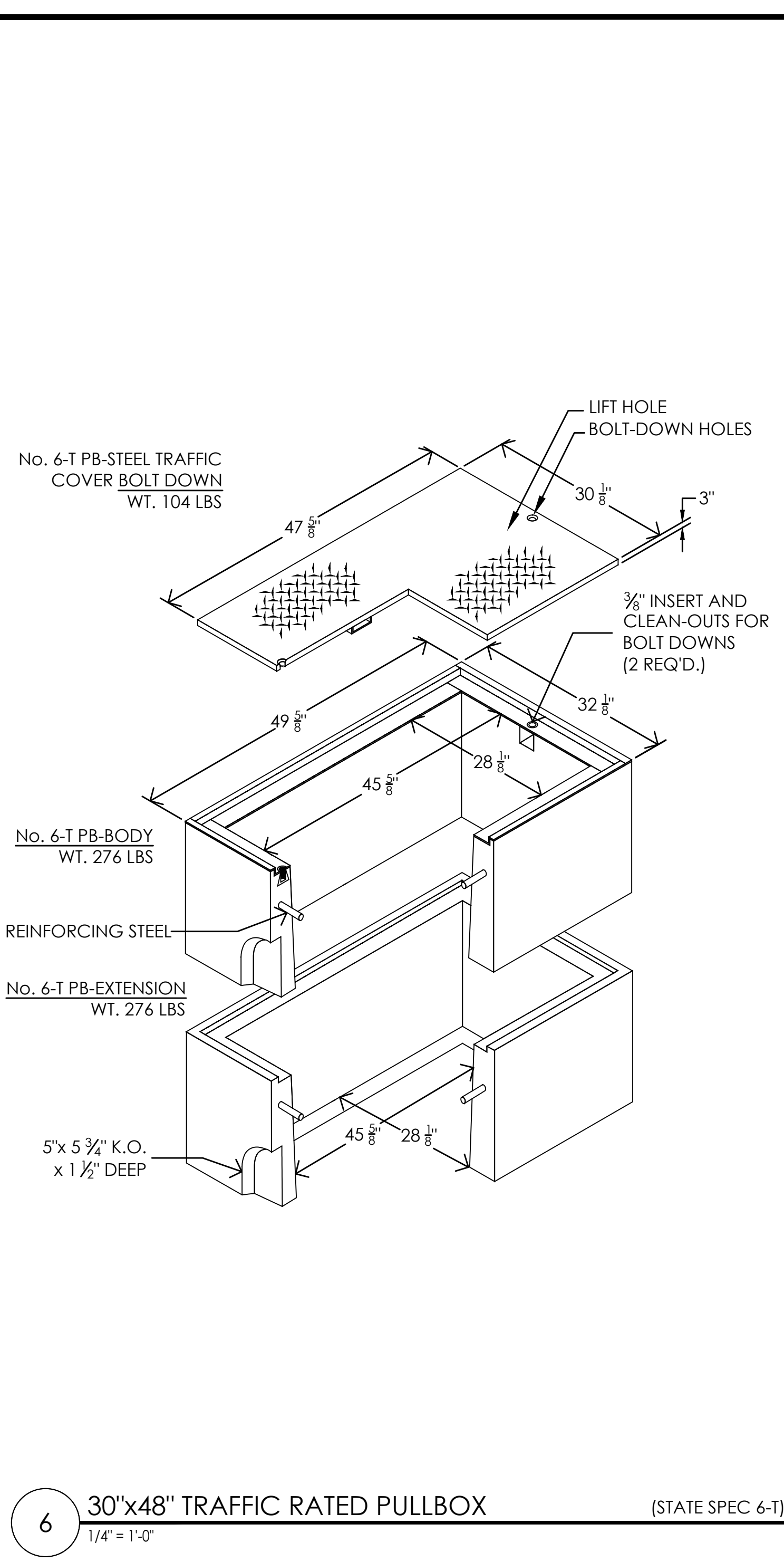
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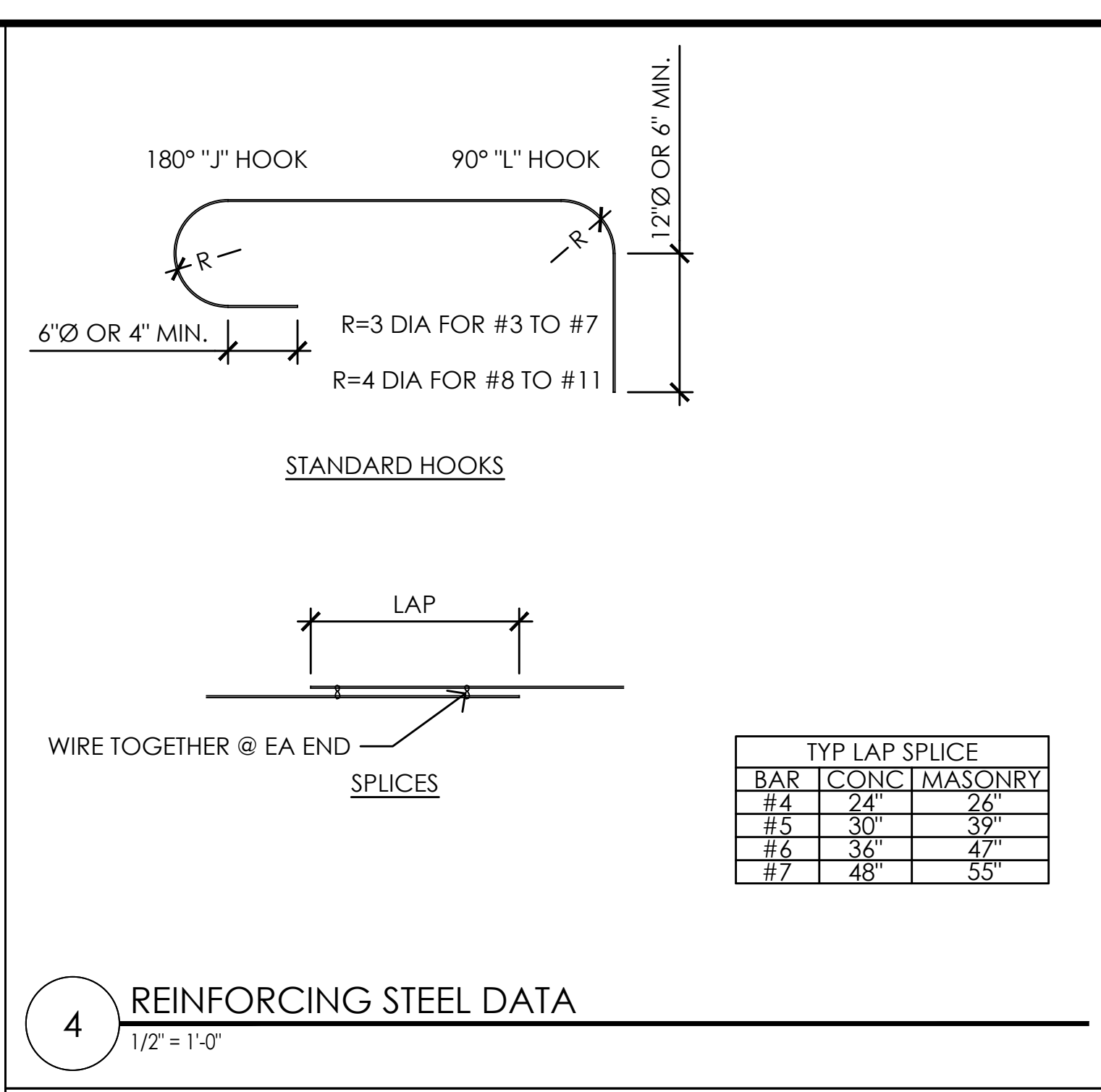
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**CONSTRUCTION  
DETAILS -  
EQUIPMENT**

SHEET NUMBER:  
**A-5.1**

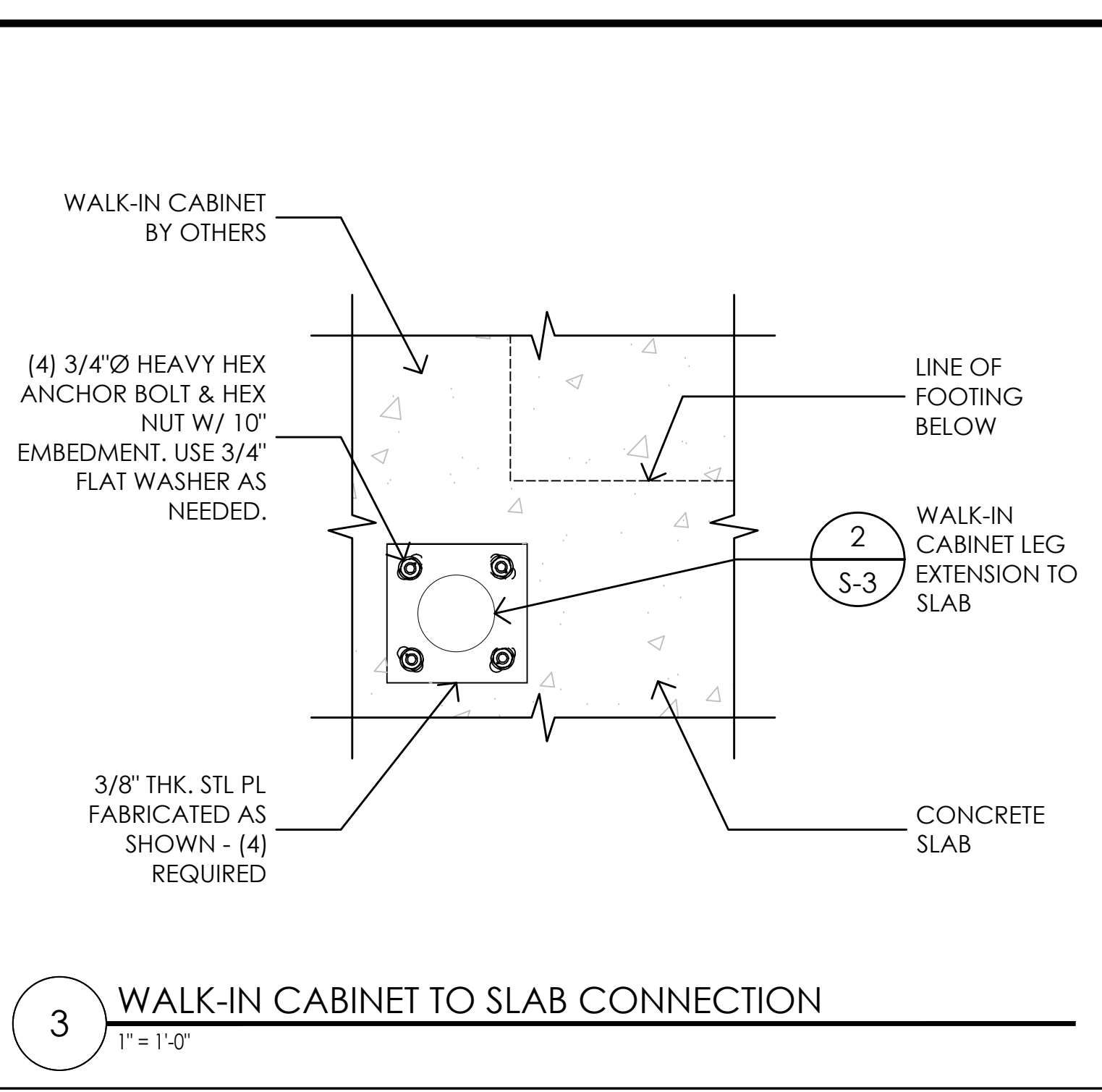




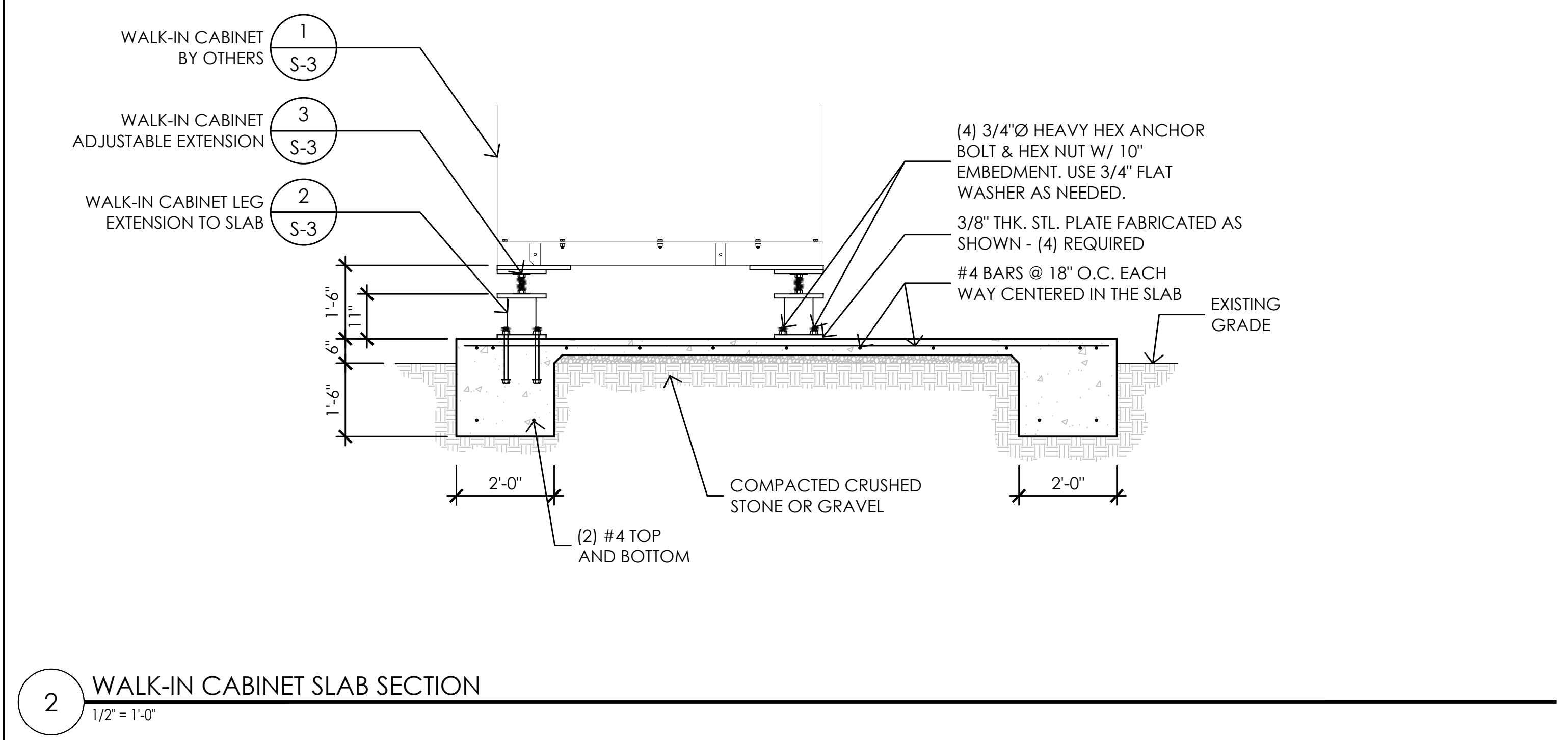
**6 30"x48" TRAFFIC RATED PULLBOX**  
1/4" = 1'-0" (STATE SPEC 6-T)



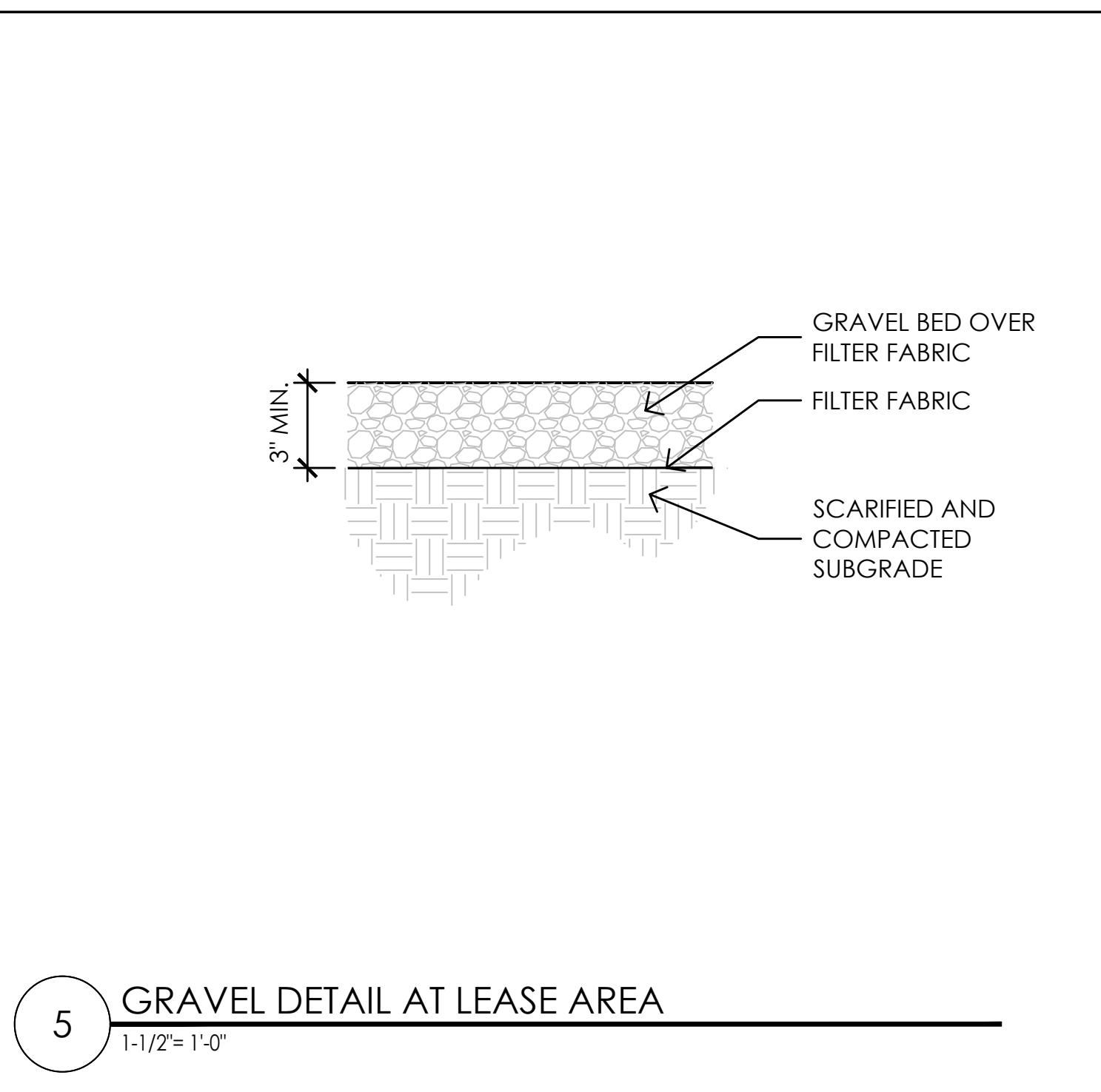
**4 REINFORCING STEEL DATA**  
1/2" = 1'-0"



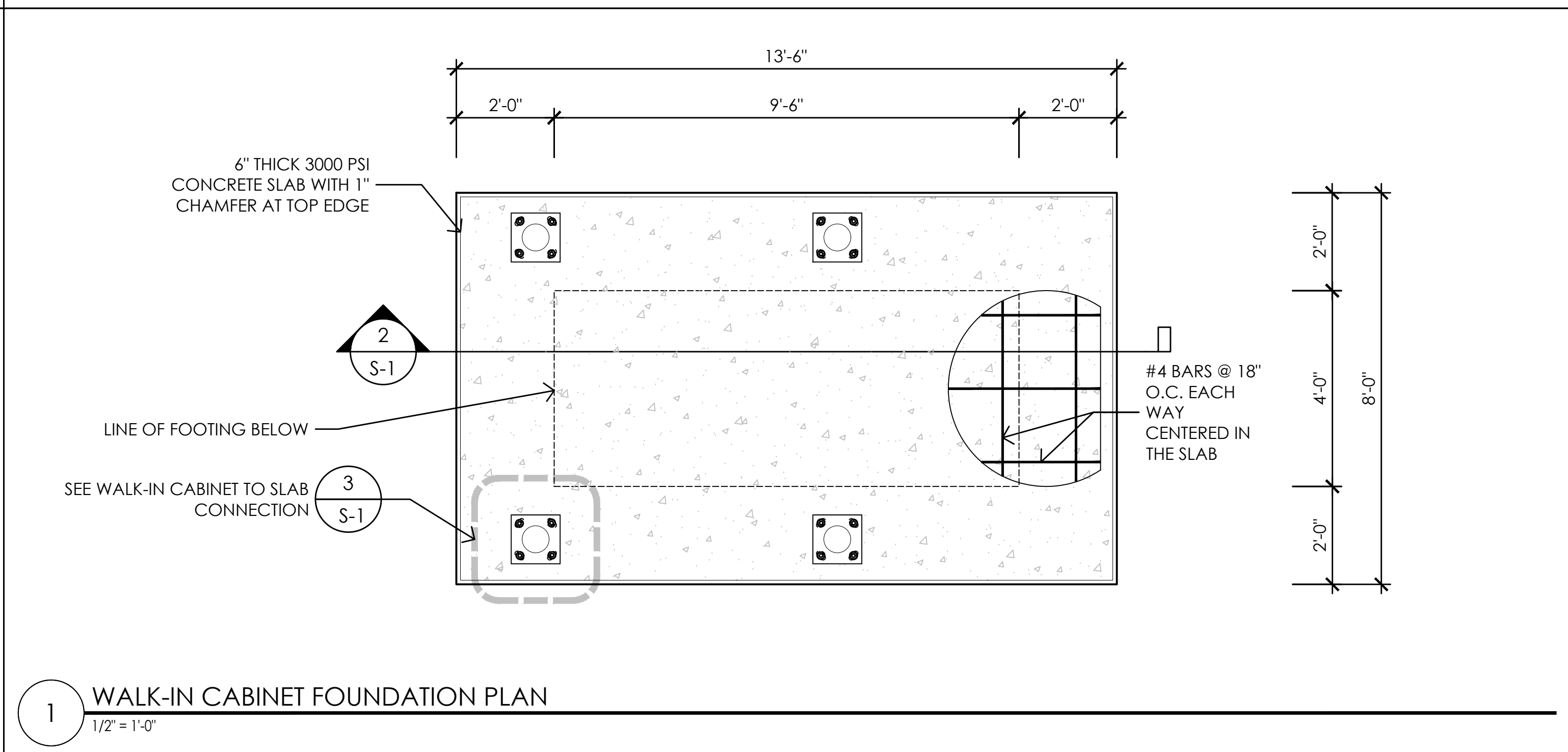
**3 WALK-IN CABINET TO SLAB CONNECTION**  
1" = 1'-0"



**2 WALK-IN CABINET SLAB SECTION**  
1/2" = 1'-0"



**5 GRAVEL DETAIL AT LEASE AREA**  
1-1/2" = 1'-0"



**1 WALK-IN CABINET FOUNDATION PLAN**  
1/2" = 1'-0"

- GENERAL NOTES:**
- ALL MATERIAL AND WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2016 CALIFORNIA BUILDING CODE (OR 2015 INTERNATIONAL BUILDING CODE WHERE OCCURS), AND THE ADOPTED STANDARDS REFERENCED THEREIN; AS WELL AS OF ANY OTHER REGULATING AGENCIES HAVING AUTHORITY & JURISDICTION OVER ANY PORTION OF THE WORK; AND OF THESE STRUCTURAL NOTES AND SPECIFICATIONS.
  - ALL DRAWINGS SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
  - ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER, ARCHITECT, OR ENGINEER OF RECORD.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK AND SHALL NOTIFY PSZE, INC. OF ANY DISCREPANCIES.
  - ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF PSZE, INC. AND RESOLVED PRIOR TO PROCEEDING WITH WORK SO INVOLVED.
  - PROVIDE MANUFACTURER'S APPROVED PRODUCT EVALUATION REPORTS (ICC EVALUATION REPORTS) AND A LIST OF ALL PROPOSED SUBSTITUTIONS TO PSZE, INC. FOR REVIEW AND WRITTEN APPROVAL BEFORE FABRICATION AND/OR INSTALLATION.
  - NEITHER THE OWNER NOR PSZE, INC. WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ALL STRUCTURAL ELEMENTS AND MEMBERS (ROOF, WALL, ETC.) ARE ADEQUATELY BRACED DURING CONSTRUCTION. BRACING OF SUCH ELEMENTS AND MEMBERS SHALL REMAIN IN PLACE UNTIL THEY ARE PROPERLY SECURED.
  - THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ALL STRUCTURAL ELEMENTS AND MEMBERS (ROOF, WALL, ETC.) ARE ADEQUATELY BRACED DURING CONSTRUCTION. BRACING OF SUCH ELEMENTS AND MEMBERS SHALL REMAIN IN PLACE UNTIL THEY ARE PROPERLY SECURED.
  - SPECIFIC DETAILS OR NOTES SHALL PREVAIL OVER STANDARD NOTES ON THIS SHEET. WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS.
  - THE CONTRACTOR SHALL DETERMINE THE LOCATION OF THE UTILITY SERVICE IN THE AREA TO BE EXCAVATED PRIOR TO BEGINNING EXCAVATION.
  - NO PIPES, DUCTS, SLEEVES, CHASE ETC. SHALL BE PLACED IN SLABS, BEAMS, COLUMNS, WALLS, ETC. UNLESS SPECIFICALLY SHOWN OR NOTED. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY SHOWN. OBTAIN PRIOR WRITTEN APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
  - SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH SOMETIMES INDICATED ON THE STRUCTURAL DRAWINGS FOR GENERAL INFORMATION PURPOSES, ARE SOLELY THE DESIGN RESPONSIBILITY OF OTHERS.
  - ALTERNATIVE PRODUCTS OF SIMILAR STRENGTH AND NATURE, AND FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION (TEST REPORTS, ICC EVALUATION REPORTS, ETC.) TO THE EOR FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTLY DEVIATE FROM THE DESIGN INTENT MAY BE RETURNED WITHOUT REVIEW. ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW SHALL REQUIRE APPROVAL FROM THE OWNER BEFORE REVIEW.
  - SHOP DRAWINGS, SPECIAL INSPECTIONS, AND MATERIAL SAMPLING & TESTING (WHEN REQUIRED) ARE SPECIFIED IN THESE STANDARD NOTES AND SPECIFICATIONS, AND THE SPECIAL INSPECTION TABLES.

- REINFORCED CONCRETE NOTES:**
- DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE SPECIFICATIONS AND STANDARDS OF THE AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-14.
  - CEMENT SHALL CONFORM TO ASTM C-150, TYPE II.
  - AGGREGATES SHALL CONFORM TO ASTM C-33 FOR NORMAL WEIGHT CONCRETE AND ASTM C-330 FOR LIGHT WEIGHT CONCRETE.
  - ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36.
  - ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE SECURED IN POSITION AND INSPECTED BY THE LOCAL BUILDING DEPARTMENT INSPECTOR PRIOR TO THE POURING OF ANY CONCRETE.
  - FINISHED SURFACES OF FLOOR SLABS SHALL NOT DEVIATE MORE THAN 1/8" FROM THE LOWER EDGE OF A 10 FOOT STRAIGHT EDGE.
  - CONCRETE SHALL MEET THE FOLLOWING DESIGN CRITERIA:
- | LOCATION                    | 28 DAY COMP STRENGTH | MIN CEMENT    | MAX AGGREGATE | MAX SLUMP |
|-----------------------------|----------------------|---------------|---------------|-----------|
| FOUNDATION                  | 3000 psi             | 5.5 SACKS/ YD | 1"            | 4"        |
| NONSTRUCTURAL SLAB ON GRADE | 3000 psi             | 5.0 SACKS/ YD | 1"            | 4"        |
- CONCRETE MIX TESTING AND DESIGN SHALL MEET THE REQUIREMENTS OF CHAPTER 26 OF ACI 318-14 AND SECTION 1904 OF THE 2016 CBC RESPECTIVELY, AND THESE SPECIFICATIONS.
  - ADMITTURES SHALL BE REVIEWED BY PSZE, INC. CALCIUM CHLORIDE OR ADDED CHLORIDES ARE NOT PERMITTED.
  - DRY PACK SHALL BE 1 PART CEMENT AND 2 PARTS SAND BY VOLUME.
  - PROVIDE A 3/4" CHAMFER ON EXPOSED CORNERS.
  - CONSTRUCTION JOINTS SHALL BE ROUGHENED TO 1/4" AMPLITUDE MINIMUM OR KEYS JOINTS PER PLAN. WAIT 48 HOURS BETWEEN POURS.
  - CONCRETE CURING SHALL BE PER THE PROVISIONS OF CHAPTER 26 OF ACI 318-14.
  - ALL CONCRETE SHALL BE CONSOLIDATED WITH MECHANICAL VIBRATORS.

- REINFORCING STEEL NOTES:**
- DESIGN, DETAILING, FABRICATION AND PLACEMENT OF STEEL REINFORCEMENT SHALL CONFORM TO THE SPECIFICATIONS AND STANDARDS OF ACI 318-14, TMS 402-13, TMS 602-13, AND AWS D1.4 AS APPLICABLE.
  - BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 40.
  - ALL REINFORCING STEEL, ANCHOR BOLTS, HOLD-DOWN ANCHORS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE OR GROUT.
  - REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING AMOUNTS OF CONCRETE COVER UNLESS NOTED OTHERWISE:  
CONCRETE CAST AGAINST EARTH ..... 3"  
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER ..... 3"  
NO. 5 OR SMALLER BARS ..... 1-1/2"
  - SPLICES:  
SPLICES IN NO. 8 OR SMALLER BARS SHALL BE 45 BAR DIAMETERS. SPLICES IN ADJACENT BARS SHALL BE STAGGERED 5'-0".

Issued For:  
**CVL01150**  
**COLUMBUS ST.**  
**& RIVERSIDE**  
716 COLUMBIA STREET  
MADERA, CA. 93638

PREPARED FOR  
  
2600 Camino Ramon  
San Ramon, California 94583

Vendor:  
  
**COMPLETE**  
Wireless Consulting, Inc.

AT&T SITE NO: CVL01150  
PROJECT NO: 162.2188  
DRAWN BY: MWS  
CHECKED BY: SST

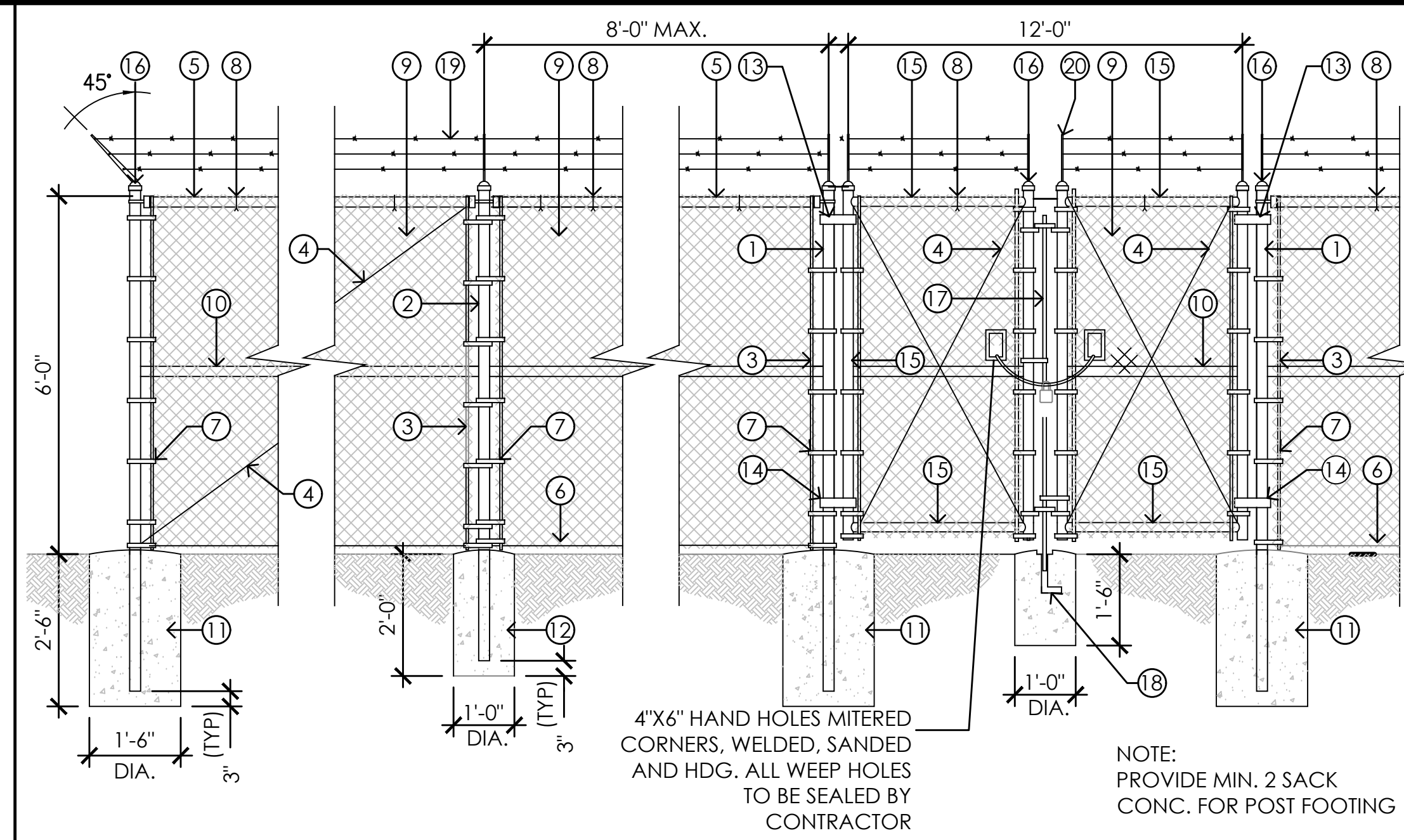
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	05/24/19	100% CD REV 3
	05/07/19	100% CD REV 2
	02/08/19	100% CD PC1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

Licensee:  
  
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.

Architect:  
  
**MST ARCHITECTS**  
1520 River Park Drive  
Sacramento, California 95815

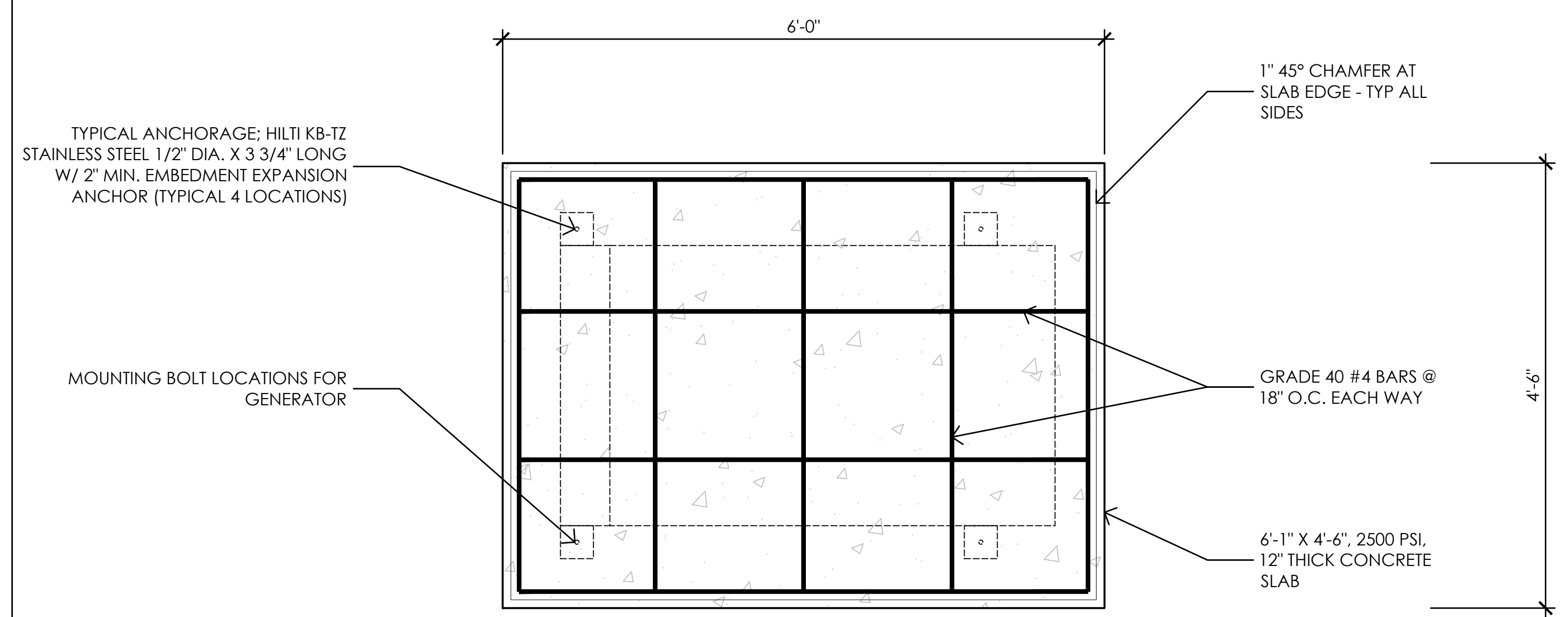
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**STRUCTURAL**  
**DETAILS**

SHEET NUMBER:  
**S-1**

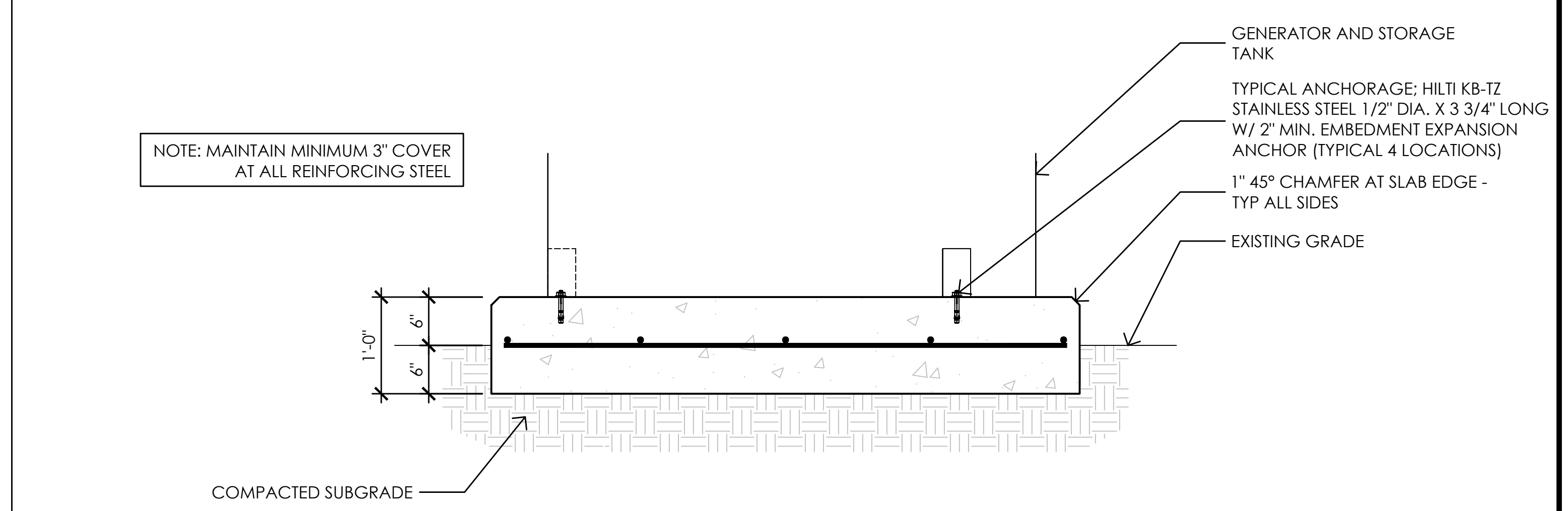


- CONSTRUCTION NOTES**
- 1 GATE, END OR CORNER POST. 3"Ø SCH. 40 PIPE (HDG) PIPE.
  - 2 LINE POST, 2"Ø SCH. 40 (HDG) PIPE
  - 3 TENSION BAR, 1/4" x 3/4" (HDG) 3/8" STEEL TRUSS ROD W/ TIGHTENER
  - 4 @ALL CORNERS, ANCHOR ENDS & GATE POST. ALL (HDG).
  - 5 1 1/4"Ø SCH. 40 (HDG) PIPE.
  - 6 TENSION WIRE, 6 GA. GALV. COIL SPRING WIRE
  - 7 1/8" x 3/4" STRETCHER BANDS @ 12" O.C.
  - 8 NO. 9 GA. TIE WIRE @ 14" O.C.
  - 9 2' x 2" MESH x 9 NO. 9 GA. GALV. CHAIN LINK FABRIC
  - 10 1 1/4" SCH. 40 (HDG) PIPE @ CORNER ANCHORS, & ENDS
  - 11 CORNER AND GATE POST SHALL HAVE 18" RND. BY 30" DEEP CONC. FT'G. INTO NATIVE SOIL OR 90% COMPACTED SOIL.
  - 12 LINE POST SHALL HAVE 12" BY 24" DEEP FT'G. INTO NATIVE SOIL OR 90% COMPACTED SOIL.
  - 13 TOP HINGE PER MFR., TYP.
  - 14 BOTTOM HINGE PER MFR., TYP.
  - 15 WELD 2" ROUND GATE FRAME, TYP.
  - 16 POST CAP(HDG), TYP.
  - 17 FULL HEIGHT DROP BOLT GATE LOCK
  - 18 MUSHROOM TYP. GATE ANCHOR TO PREVENT FREEZING CONC. BASE TO BE 12"Ø x 18" DEEP
  - 19 GALV. BARBED WIRE 4-POINT x NO. 12 GA., 6" SPACING
  - 20 EXTENSION EYE LOOP

**2 TYPICAL CHAIN LINK FENCE DETAIL**  
1/2" = 1'-0"



**SLAB PLAN VIEW**



**SLAB SECTION VIEW**

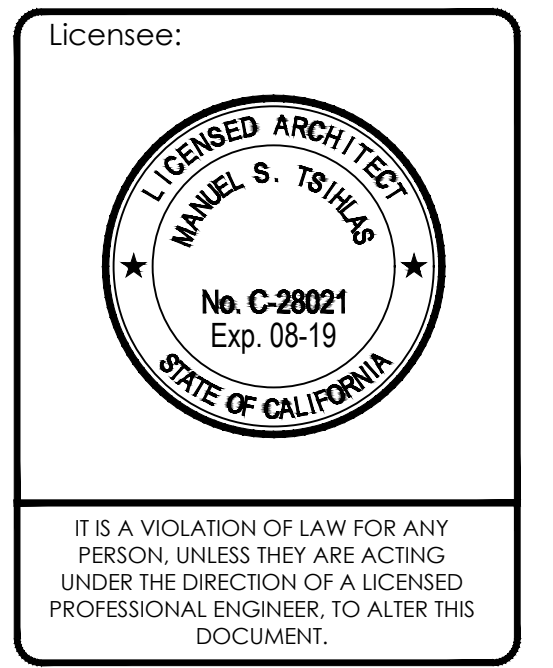
**1 GENERATOR SLAB**  
1" = 1'-0"

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716 COLUMBIA STREET  
MADERA, CA. 93638



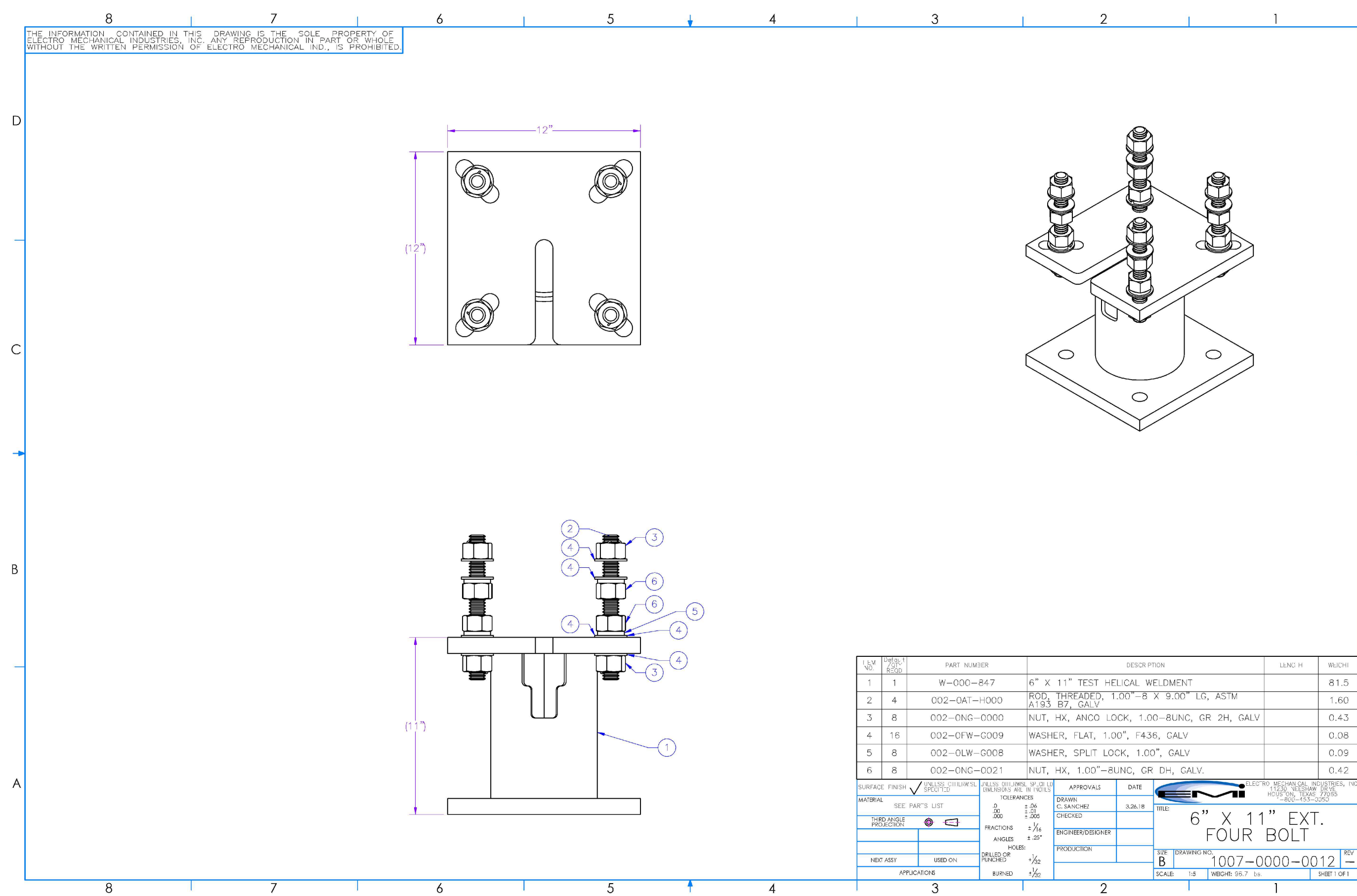
AT&T SITE NO: CVL01150  
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Δ	05/24/19	100% CD REV 3
Δ	05/07/19	100% CD REV 2
Δ	02/08/19	100% CD PC 1
	11/29/18	100% CD
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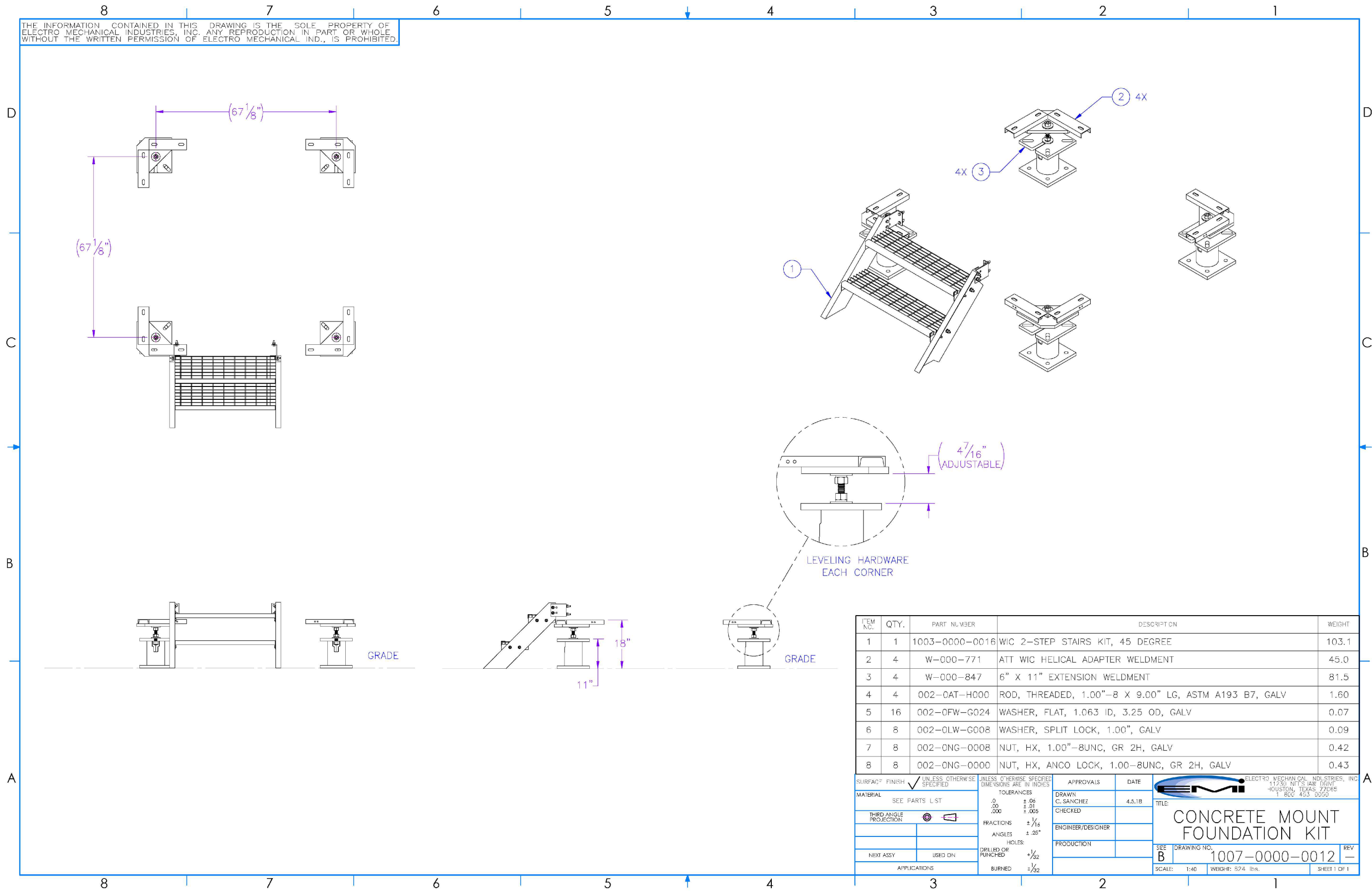


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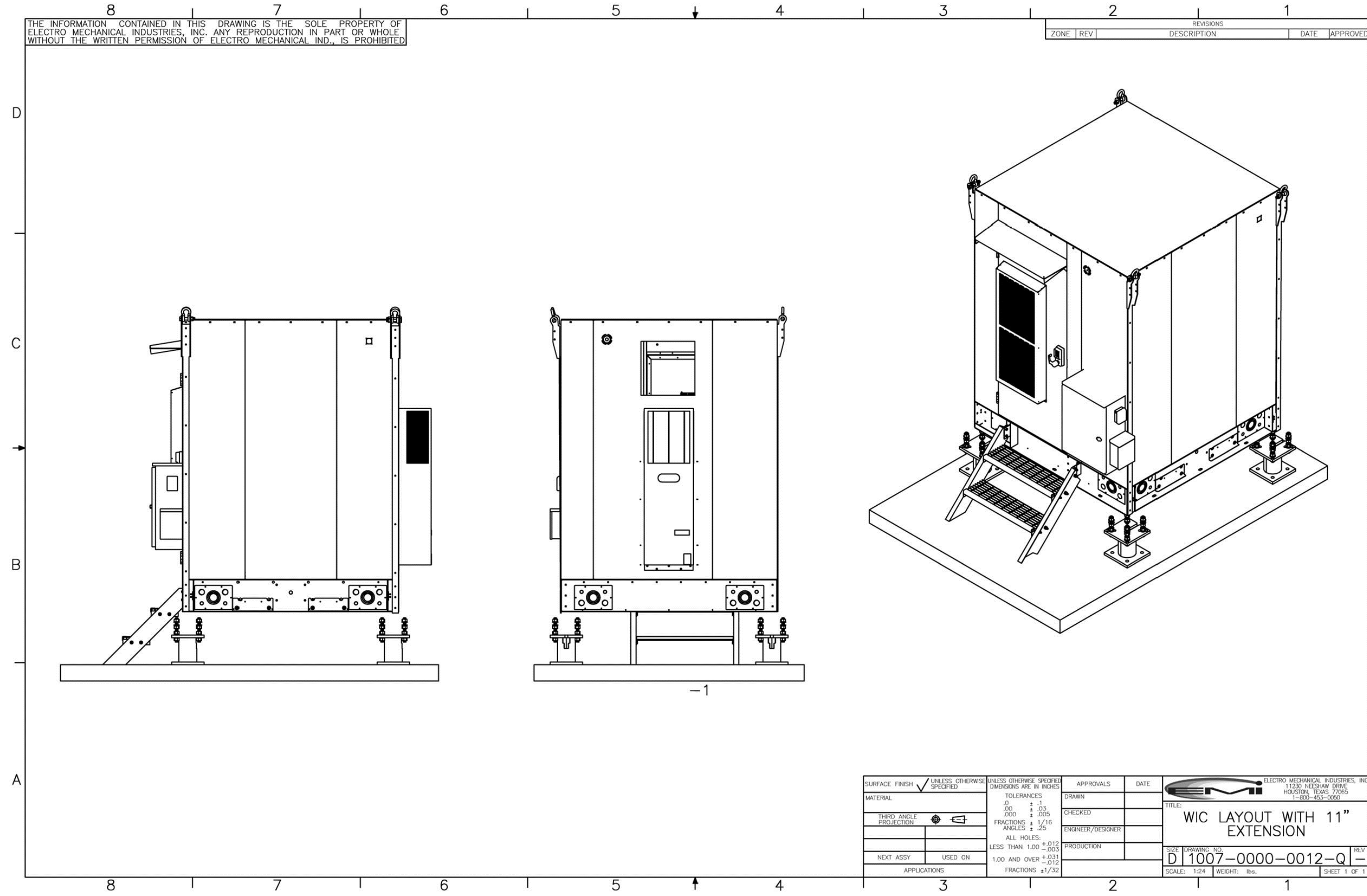
SHEET NUMBER:  
**S-2**



2 WALK-IN CABINET EXTENSION LEG DETAIL  
NONE



3 WALK-IN CABINET STAIR AND EXTENSION TO SLAB DETAILS  
NONE



1 WALK-IN CABINET ASSEMBLY  
NONE

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MADERA, CA. 93638

PREPARED FOR  
 at&t  
2600 Camino Ramon  
San Ramon, California 94583

Vendor:  
 COMPLETE  
Wireless Consulting, Inc.

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Δ	05/24/19	100% CD REV3
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	05/22/18	100% ZD
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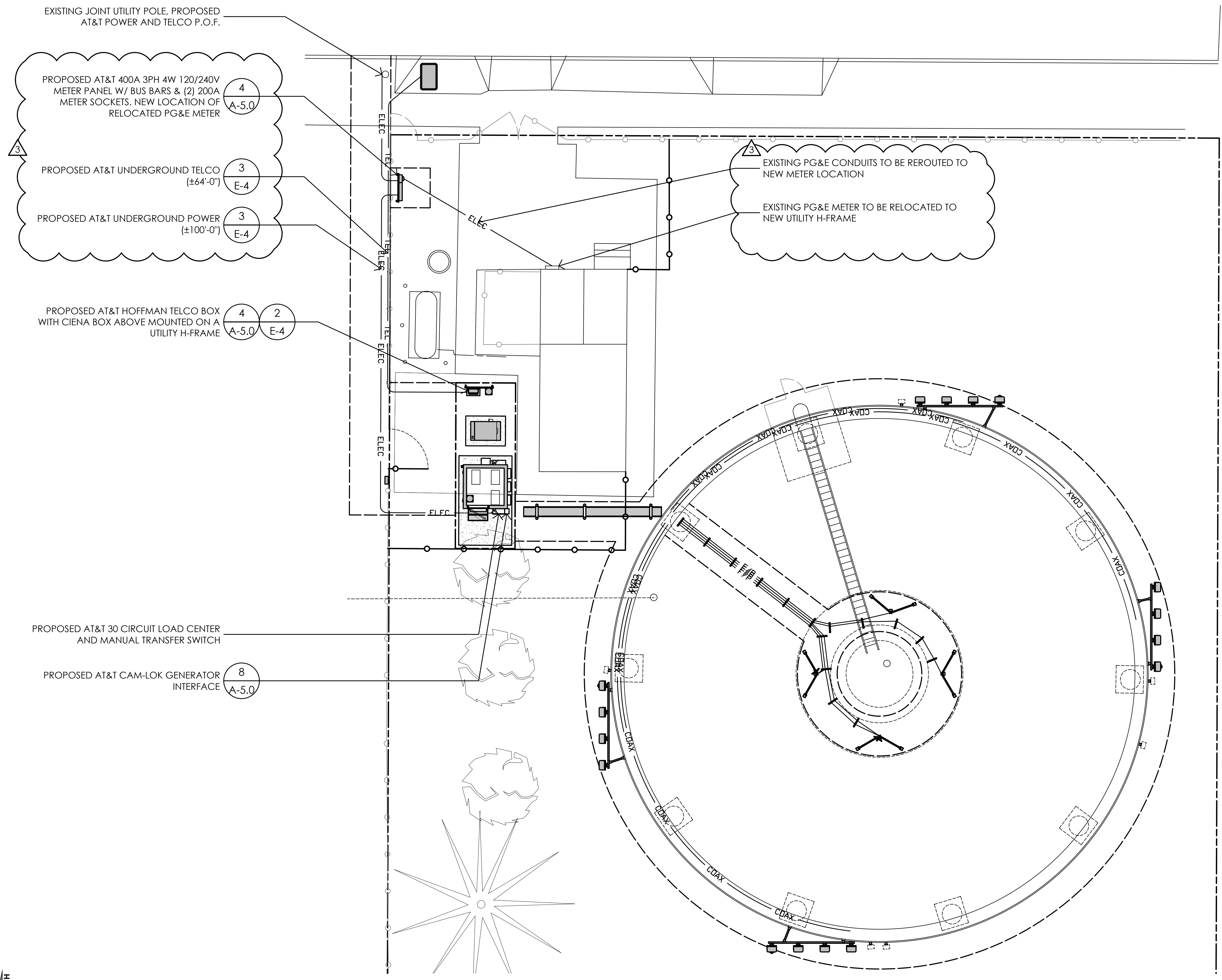
Licensee:  
 LICENSED ARCHITECT  
MANUEL S. TRINIDAD  
No. C-28021  
Exp. 08-19  
STATE OF CALIFORNIA  
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

Architect:  
 MST ARCHITECTS  
1520 River Park Drive  
Sacramento, California 95815

SHEET TITLE:  
STRUCTURAL DETAILS

SHEET NUMBER:  
S-3





EXISTING JOINT UTILITY POLE, PROPOSED AT&T POWER AND TELCO P.O.F.

PROPOSED AT&T 400A 3PH 4W 120/240V METER PANEL W/ BUS BARS & (2) 200A METER SOCKETS. NEW LOCATION OF RELOCATED PG&E METER

PROPOSED AT&T UNDERGROUND TELCO (±64'-0")

PROPOSED AT&T UNDERGROUND POWER (±100'-0")

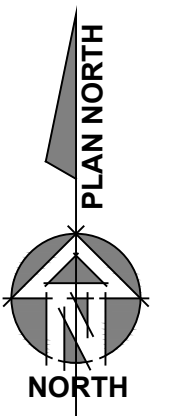
PROPOSED AT&T HOFFMAN TELCO BOX WITH CIENA BOX ABOVE MOUNTED ON A UTILITY H-FRAME

EXISTING PG&E CONDUITS TO BE REROUTED TO NEW METER LOCATION

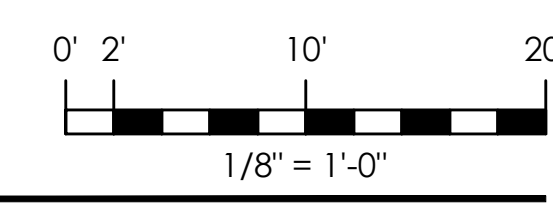
EXISTING PG&E METER TO BE RELOCATED TO NEW UTILITY H-FRAME

PROPOSED AT&T 30 CIRCUIT LOAD CENTER AND MANUAL TRANSFER SWITCH

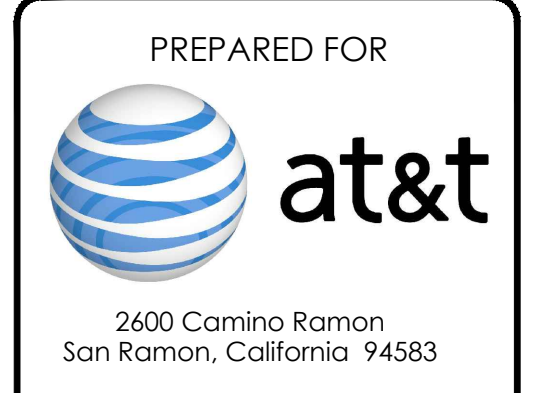
PROPOSED AT&T CAM-LOK GENERATOR INTERFACE



1 UTILITY SITE PLAN  
1/8" = 1'-0"

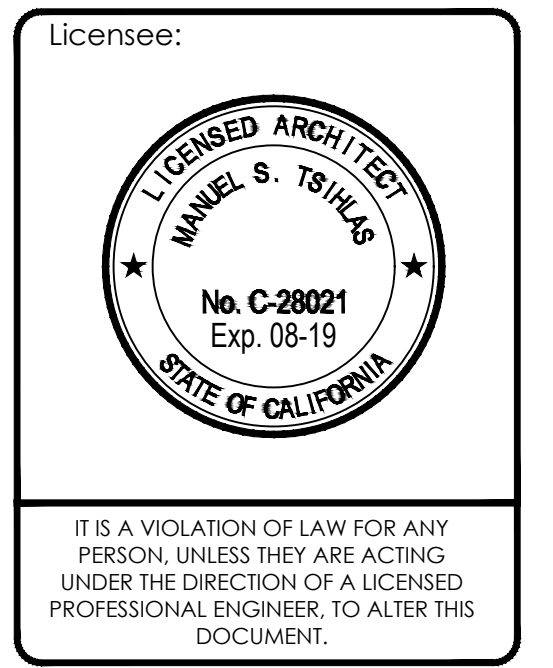


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 716 COLUMBIA STREET  
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AT&T SITE NO:	CVL01150
PROJECT NO:	162.2188
DRAWN BY:	MWS
CHECKED BY:	SSJ

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	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD



SHEET TITLE:  
**UTILITY SITE PLAN**

SHEET NUMBER:  
**E-2**



**ELECTRICAL INSTALLATION METHODS:**

- This installation shall comply with the currently adopted edition of the National Electrical Code and with utility company and local code requirements.
- Install sufficient lengths of LFMC including all conduit fittings (nuts, reducing bushings, elbows, couplings, etc.) necessary for connection from IMC or PVC conduit to the interior of the BTS cabinet.
- Power, control and equipment ground wiring in tubing or conduit shall be single conductor (#14 AWG and larger), 600V, oil resistant THHN or THWN-2, Class B stranded copper cable rated for 90°C (wet and dry) operation; listed or labeled for the location and raceway system used.
- Cut, coil and tape a 3 foot pigtail from end of LFMC for terminating by BTS equipment manufacturer.
- Supplemental equipment ground wiring located indoors shall be single conductor (#6 AWG and larger), 600V, oil resistant THHN or THWN-2 green insulation, Class B stranded copper cable rated for 90°C (wet and dry) operation, listed or labeled for the location and raceway system used.
- Supplemental equipment ground wiring located outdoors or below grade shall be single conductor #2 AWG solid, tinned, copper cable.
- Power and control wiring, not in tubing or conduit, shall be multi-conductor, Type TC. Cable (#14 AWG and larger), 600V, oil resistant THHN or THWN-2, Class B, Stranded copper cable rated for 90°C (Wet or Dry) operation, with outer jacket listed or labeled for the location used.
- Cables shall not be routed through ladder-style cable tray rungs.
- Raceway and cable tray shall be listed or labeled for electrical use in accordance with NEMA, UL, ANSI/IEEE and NEC.
- New raceway or cable tray shall match the existing installation where possible.
- All power and grounding connections shall be crimp style, compression, wire lugs and wirenuts by Thomas and Betts (or equal). Lugs and wirenuts shall be rated for operation at no less than 75°C.
- Each end of every power, grounding and T1 conductor and cable shall be labeled with color coded insulation or electrical tape. The identification method shall conform with NEC & OSHA and match existing installation requirements.
- All electrical components shall be clearly labeled with engraved laminated plastic labels. All equipment shall be labeled with their voltage rating, phase configuration, wire configuration, power or ampacity rating and branch circuit ID numbers (panelboard and circuit identification).
- All tie wraps shall be cut flush with approved cutting tool to remove sharp edges.
- Rigid nonmetallic conduit (PVC Schedule 40 or PVC Schedule 80) shall be used underground, direct buried in areas of occasional light vehicle traffic or encased in reinforced concrete in areas of heavy vehicle traffic.
- All conduit run above ground or exposed shall be LFMC, IMC or Rigid Steel.
- Electrical metallic tubing (EMT) shall be used for concealed indoor locations.
- Liquid tight flexible metallic conduit shall be used indoors and outdoors where vibration occurs or flexibility is needed.
- Conduit and tubing fittings shall be threaded or compression type and approved for the location used. Setscrew fittings are not acceptable.
- Cabinets, boxes and wireways shall be listed or labeled for electrical use in accordance with NEMA, UL, ANSI/IEEE and NEC.
- Cabinets, boxes and wireways shall match the existing installation where possible.
- Provide necessary tagging on the breakers, cables and distribution panels in accordance with applicable codes and standards to safeguard life and property.
- The subcontractor shall review and inspect the existing facility grounding system and lightning protection system (as designed and installed) for strict compliance with the NEC. The site specific lightning protection code and general compliance with Telcordia and TIA grounding standards. The subcontractor shall report any violations or adverse findings to the contractor for resolution.
- All electrode systems (including telecommunication, radio, lightning protection and AC power GES's) shall be bonded together at or below grade by two or more copper bonding conductors in accordance with the NEC.
- Perform IEEE fall-of-potential resistance to earth testing (per IEEE 1100 and 81) for new ground electrode systems. The subcontractor shall furnish and install supplemental ground electrodes as needed to achieve a test result of 5 ohms or less.
- Metal raceway shall not be used as the NEC required equipment ground conductor. Stranded copper conductors with green insulation sized in accordance with the NEC shall be furnished and installed with the power circuits to BTS equipment.
- Each indoor BTS cabinet frame shall be directly connected to the master ground bar with supplemental equipment ground wires #6 or larger.
- Exothermic welds shall be used for all grounding connections below grade.
- Approved antioxidant coatings (i.e. conductive gel or paste) shall be used on all compression and bolted ground connections.
- ICE bridge bonding conductors shall be exothermically bonded or bolted to the bridge and the tower ground bar.
- Surfaces to be connected to ground conductors shall be cleaned to a bright surface at all connections.
- Exposed ground connections shall be made with compression connectors which are then bolted to equipment using stainless steel hardware. Installation torque shall be per manufacturer's requirements.
- DC power cables shall be Cobra COP-FLEX 2000, Flexible Class B or approved equal.

**LITHONIA LIGHTING**

**FEATURES & SPECIFICATIONS**

**INTENDED USE:**  
Provide point of maintenance free general illumination for outdoor use in commercial applications such as retail, education, health care, housing and storage. Ideal for lighting building facades, parking areas, walkways, garages, loading areas and any other outdoor space requiring reliable safety and security.

**CONSTRUCTION:**  
Sturdy weather-resistant aluminum housing with a bronze finish, standard anodized aluminum reflector, & clear polycarbonate lens protects the optics from moisture, dirt and other contaminants.

**OPTICS:**  
High performance LEDs are powered by a multi-watt (120W/277V) LED driver that uses 10 input watts and provides 1,400 delivered lumens. 100,000 hour LED lifespan based on IESNA LM-79 and LM-80 results and calculated per IESNA TM-21-11 methodology.

**ELECTRICAL:**  
Rated for outdoor installations, -40°C minimum ambient. Adjustable Push-to-Stop, multi-volt photocell standard automatically turns light on at dusk and off at dawn for convenience and energy savings. Photocell can be disabled by rotating the photocell cover.

**NEW:**  
Surface mount recessed. A secondary junction box is included standard. All mounting hardware included.

**LISTINGS:**  
UL Certified to UL and Canadian safety standards. Wet location listed for mounting higher than 4 feet above ground.

**WARRANTY:**  
5-year limited warranty. Complete warranty terms located at [www.lithonia.com](http://www.lithonia.com) Customer service terms and conditions apply. Actual performance may differ as a result of field-use environment and application. Note: Specifications subject to change without notice.

**OLW14 LED Wall Pack**

**PHOTOMETRIC DIAGRAMS**  
Full photometric data report available within 3 weeks from request. Consult factory. Tested in accordance with IESNA LM-79 and LM-80 standards.

**Lighting Facts:**  
Light Output (Lumens): 1400  
Watts: 17.50  
Lumens per Watt (Efficacy): 80  
Color Accuracy: 68  
Daylight: 0  
Night: 100

**Dimensions:**  
4.13" (106)  
11.50" (293)  
3.50" (89)  
5.00" (127)  
2.00" (51)  
2.00" (51)  
2.00" (51)  
2.00" (51)

**Example: OLW14**

Series	Color Temperature (CCT)	Voltage	Control	Finish
OLW14	4000K	120V/277V	None	Black
OLW14	4000K	120V/277V	None	White

**Accessories:** (Select applicable options)

ESS-1024 Full cut-off shield  
ESS-1024-24 Full cut-off shield, white

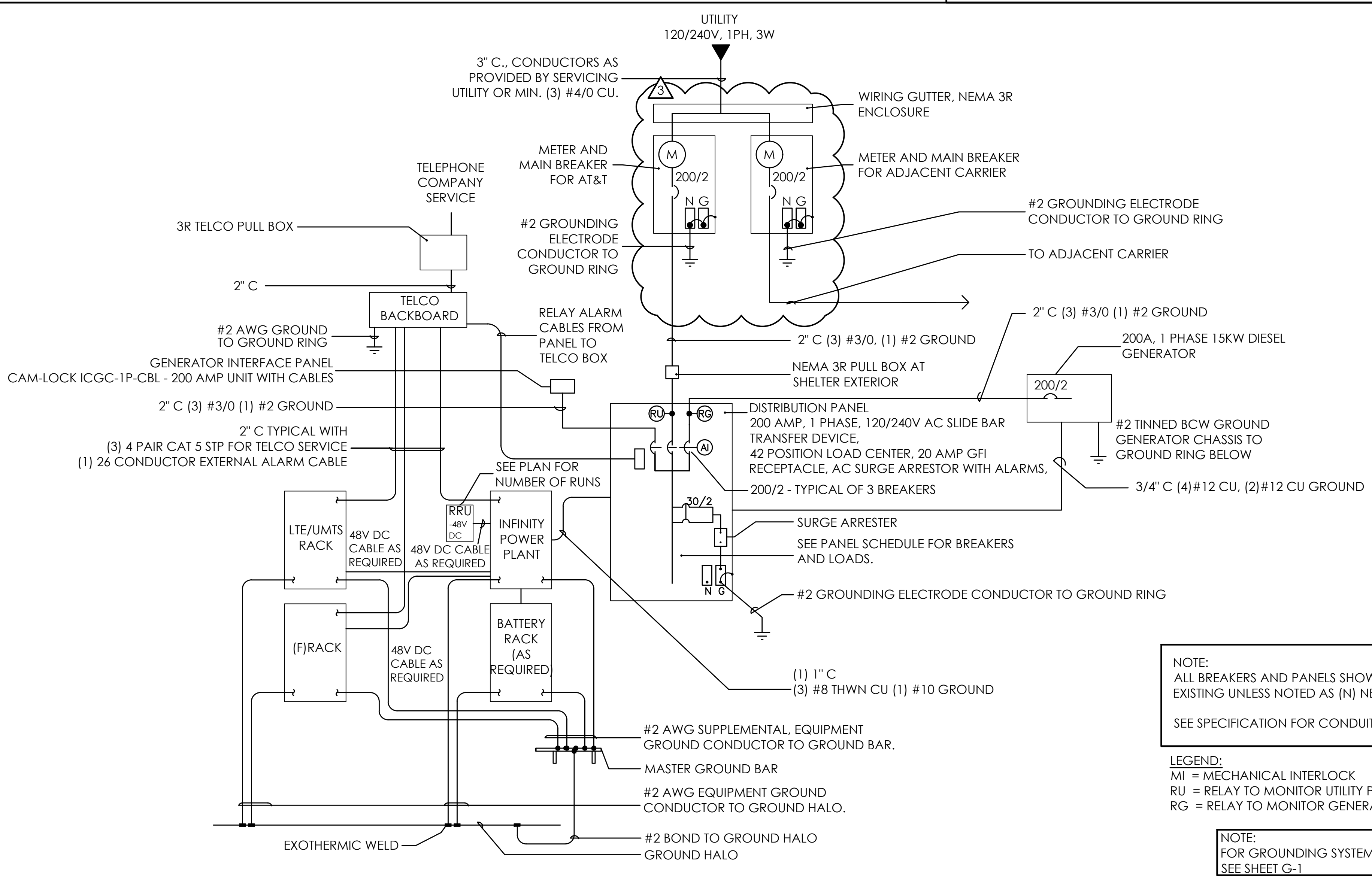
**Notes:**  
1. Controlled Color Temperature (CCT) shown is nominal per IESNA TM-27-08.

**3 LIGHT FIXTURE**  
NONE

**ABBREVIATIONS:**

- BCW BARE COPPER WIRE
  - BTS BASE TRANSCIEVER STATION
  - C CONDUIT
  - (E) EXISTING
  - EG EQUIPMENT GROUND
  - (F) FUTURE
  - FACP FIRE ALARM CONTROL PANEL
  - GEN GENERATOR
  - IG ISOLATED GROUND
  - IMC INTERMEDIATE METAL CONDUIT
  - LFMC LIQUID TIGHT FLEXIBLE METAL CONDUIT
  - MCM MILLION CIRCULAR MILLS
  - MI MECHANICAL INTERLOCK
  - MP&S SEE MECHANICAL PLANS & SPECIFICATIONS
  - (N) NEW
  - NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
  - NL NIGHT LIGHT - FIXTURE TO BE UNSWITCHED
  - PFB PROVISION FOR FUTURE BREAKER
  - PVC POLYVINYL CHLORIDE CONDUIT
  - (R) RELOCATE
  - RG RELAY TO MONITOR GENERATOR POWER
  - RU RELAY TO MONITOR UTILITY POWER
  - TYP TYPICAL
  - UON UNLESS OTHERWISE NOTED
  - WP WEATHERPROOF
  - GFCI GROUND FAULT CIRCUIT INTERRUPTER
- NOTE: SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

**2 ABBREVIATIONS**  
1/4" = 1'-0"



**1 SINGLE LINE DIAGRAM**  
1/4" = 1'-0"

**4 ELECTRICAL NOTES**  
1/4" = 1'-0"

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**COLUMBUS ST. & RIVERSIDE**  
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Δ	05/24/19	100% CD REV 3
Δ	05/07/19	100% CD REV 2
Δ	02/08/19	100% CD PC 1
	11/29/18	100% CD
	08/07/18	90% CD
	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

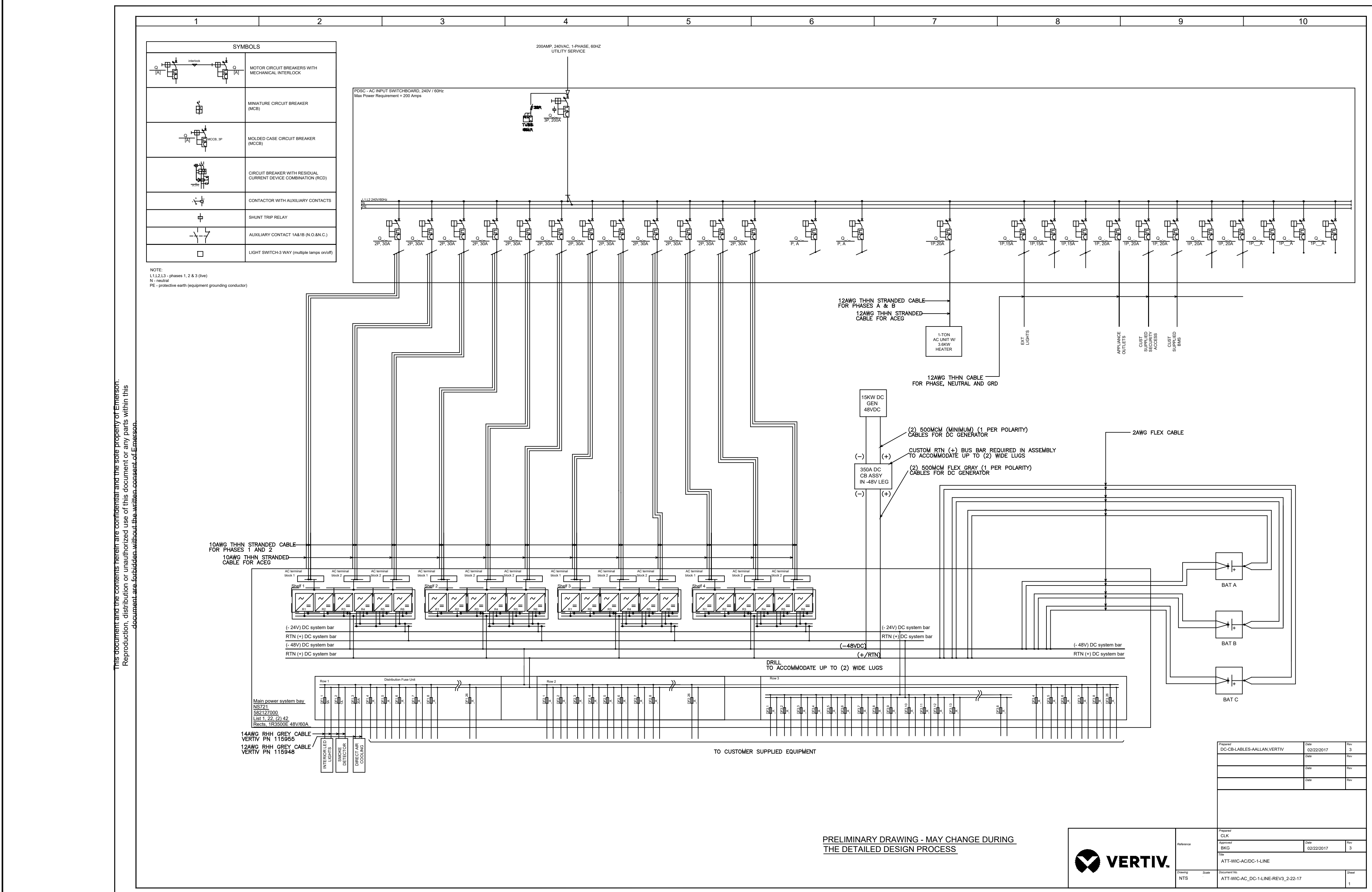
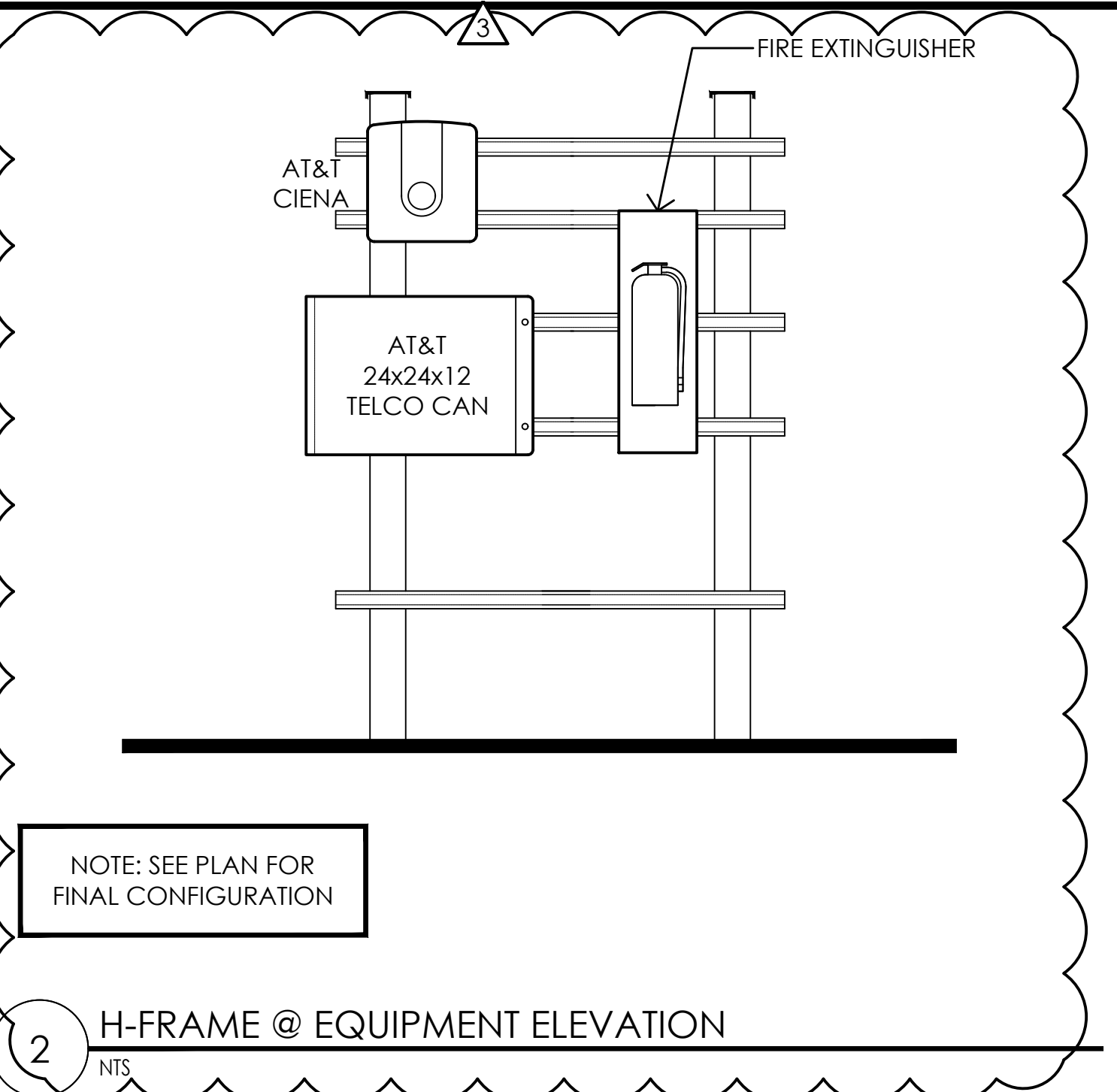
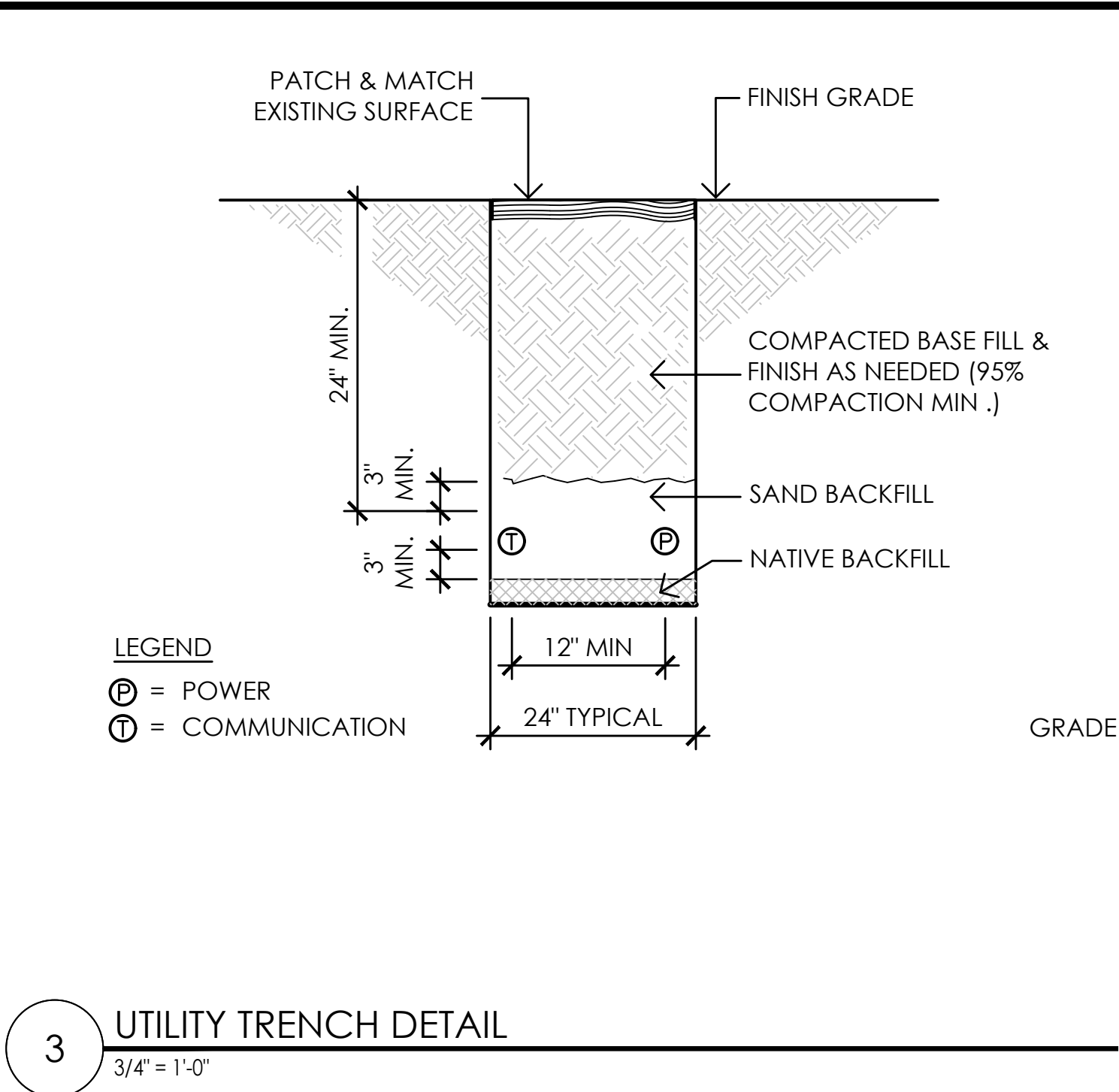
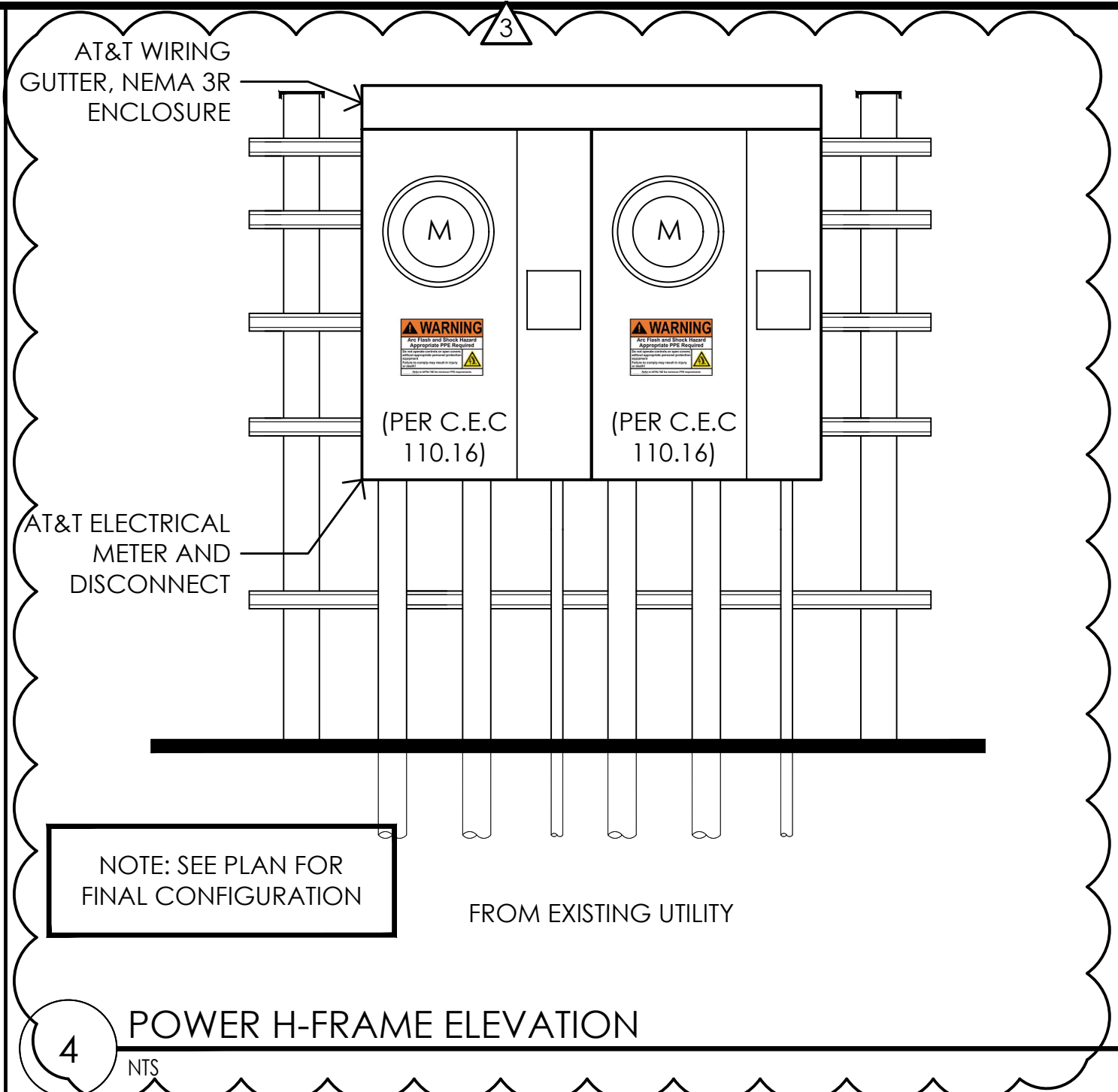
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Architect:  
  
1520 River Park Drive  
Sacramento, California 95815

SHEET TITLE:  
**POWER SINGLE LINE DIAGRAM**

SHEET NUMBER:  
**E-3**



1  
NTS

EQUIPMENT A/C POWER SCHEDULE

Issued For:

**CVL01150**  
**COLUMBUS ST. & RIVERSIDE**  
716 COLUMBIA STREET  
MADERA, CA. 93638

PREPARED FOR

2600 Camino Ramon  
San Ramon, California 94583

Vendor:

**COMPLETE**  
Wireless Consulting, Inc.

AT&T SITE NO: CVL01150

PROJECT NO: 162.2188

DRAWN BY: MWS

CHECKED BY: SST

REV	DATE	DESCRIPTION
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05/24/19	100% CD REV 3	
05/07/19	100% CD REV 2	
02/08/19	100% CD PC 1	
11/29/18	100% CD	
08/07/18	90% CD	
07/12/18	100% ZD REV 2	
06/15/18	100% ZD REV 1	
05/22/18	100% ZD	
04/27/18	90% ZD	

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Architect:

**MST ARCHITECTS**  
1520 River Park Drive  
Sacramento, California 95815

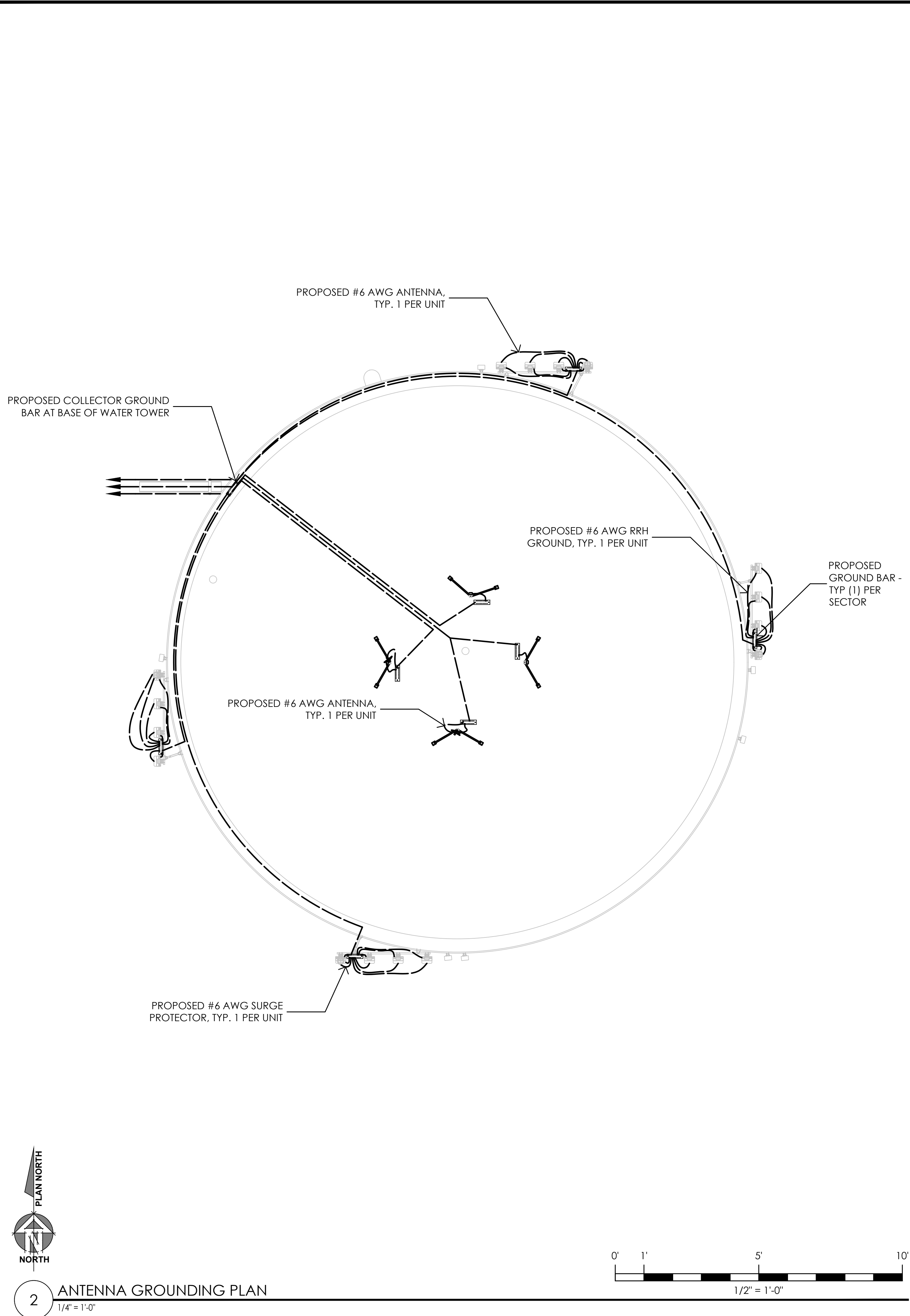
SHEET TITLE:

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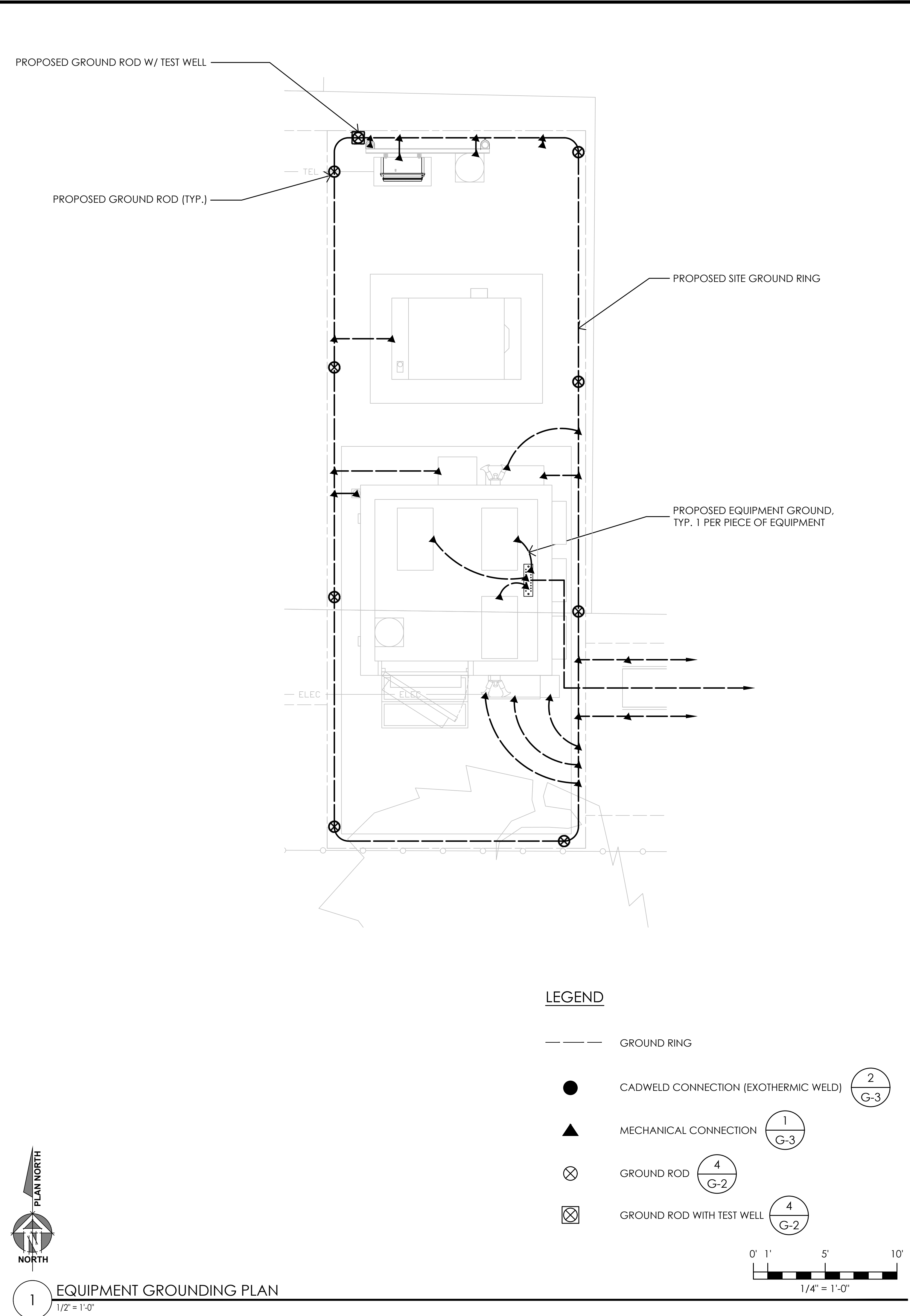
SHEET NUMBER:

**E-4**

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	02/20/17	3
DC-08-LABELS-MALLAN-VERTIV	DATE	REV
ATT:WNC-ACDC-1-LINE	DATE	REV
	02/20/17	3
ATT:WNC-AC-DC-1-LINE-REV13-20-17	DATE	REV
		1



2 ANTENNA GROUNDING PLAN  
1/4" = 1'-0"



1 EQUIPMENT GROUNDING PLAN  
1/2" = 1'-0"

Issued For:  
**CVL01150**  
**COLUMBUS ST.**  
**& RIVERSIDE**  
 716 COLUMBIA STREET  
 MADERA, CA. 93638

PREPARED FOR  
  
 2600 Camino Ramon  
 San Ramon, California 94583

Vendor:  
  
**COMPLETE**  
 Wireless Consulting, Inc.

AT&T SITE NO: CVL01150  
 PROJECT NO: 162.2188  
 DRAWN BY: MWS  
 CHECKED BY: SST

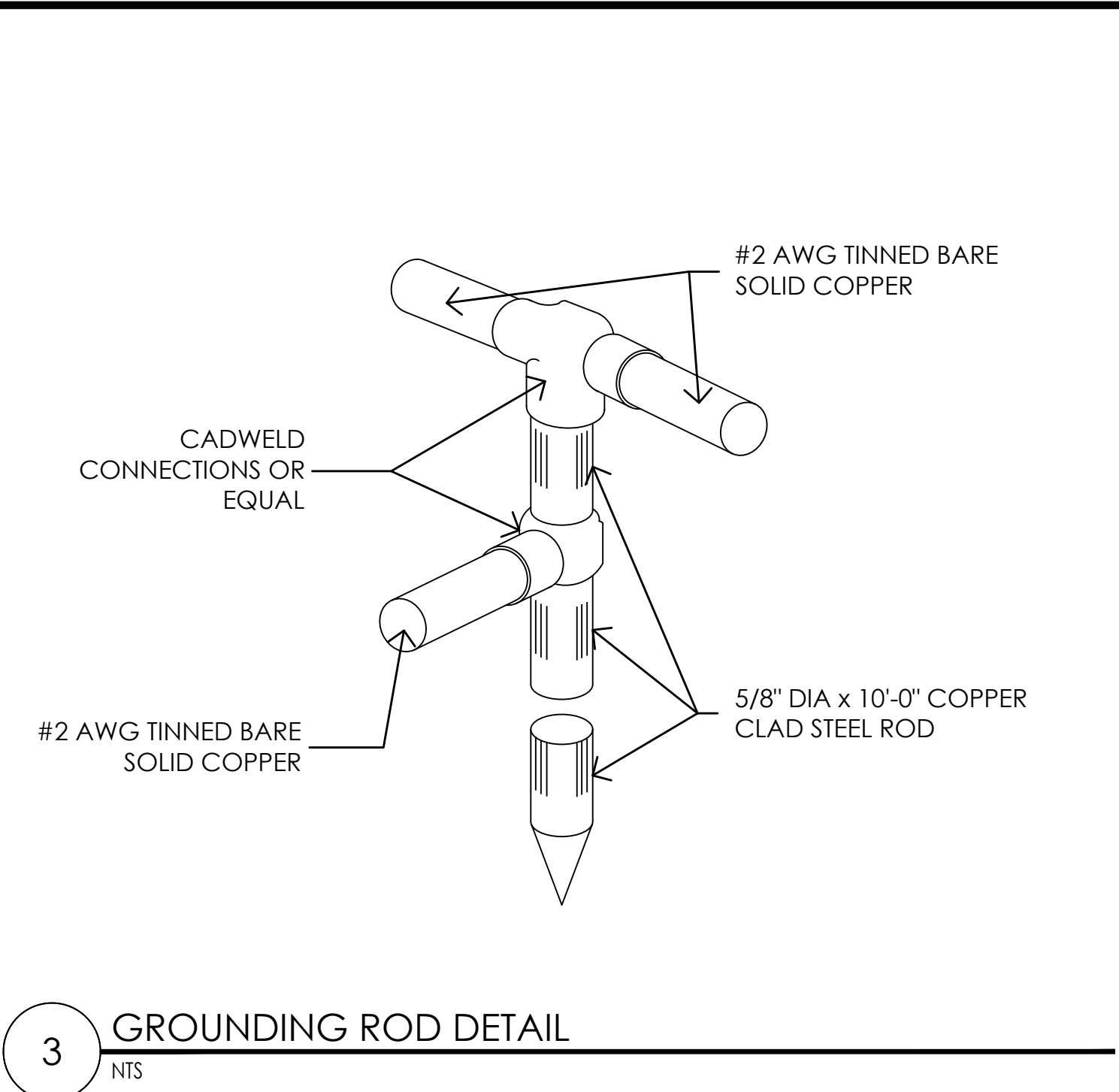
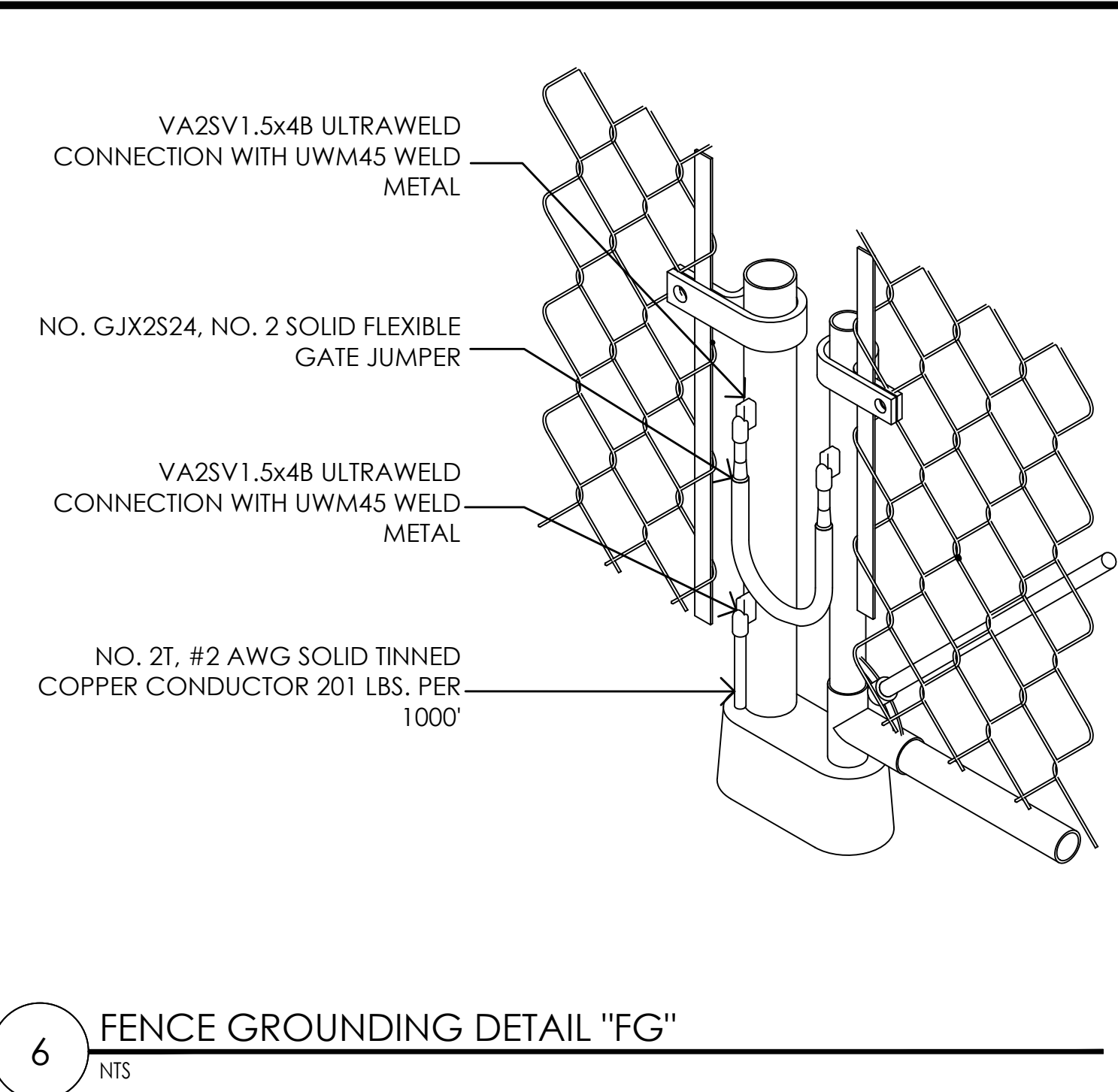
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	07/12/18	100% ZD REV 2
	06/15/18	100% ZD REV 1
	05/22/18	100% ZD
	04/27/18	90% ZD

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Architect:  
  
**MST ARCHITECTS**  
 1520 River Park Drive  
 Sacramento, California 95815

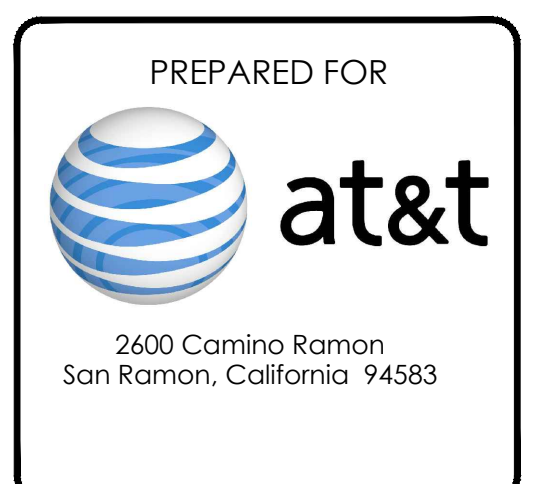
SHEET TITLE:  
**GROUNDING PLAN, NOTES & DETAILS**

SHEET NUMBER:  
**G-1**



- GROUNDING NOTES**
- 1 ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AT&T'S GROUNDING SPECIFICATIONS NUMBER ATT-TP-76416 (CHAPTER 7), AND MANUFACTURER SPECIFICATION.
  - 2 IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE INSTALLED IN THE AC POWER CONDUIT. THE INSTALLATION SHALL BE PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).
  - 3 EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE MADE USING COMPRESSION TYPE-2 HOLES. LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE COATED WITH ANTIOXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.
  - 4 THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
  - 5 ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT.
  - 6 PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND /OR CEILINGS.
  7. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.
  - 8 GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
  9. ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.

Issued For:  
**CVL01150**  
**COLUMBUS ST.**  
**& RIVERSIDE**  
 716 COLUMBIA STREET  
 MADERA, CA. 93638



AT&T SITE NO: CVL01150  
 PROJECT NO: 162.2188  
 DRAWN BY: MWS  
 CHECKED BY: SST

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Δ	05/24/19	100% CD REV 3
Δ	05/07/19	100% CD REV 2
Δ	02/08/19	100% CD PC 1
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	08/07/18	90% CD
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	05/22/18	100% ZD
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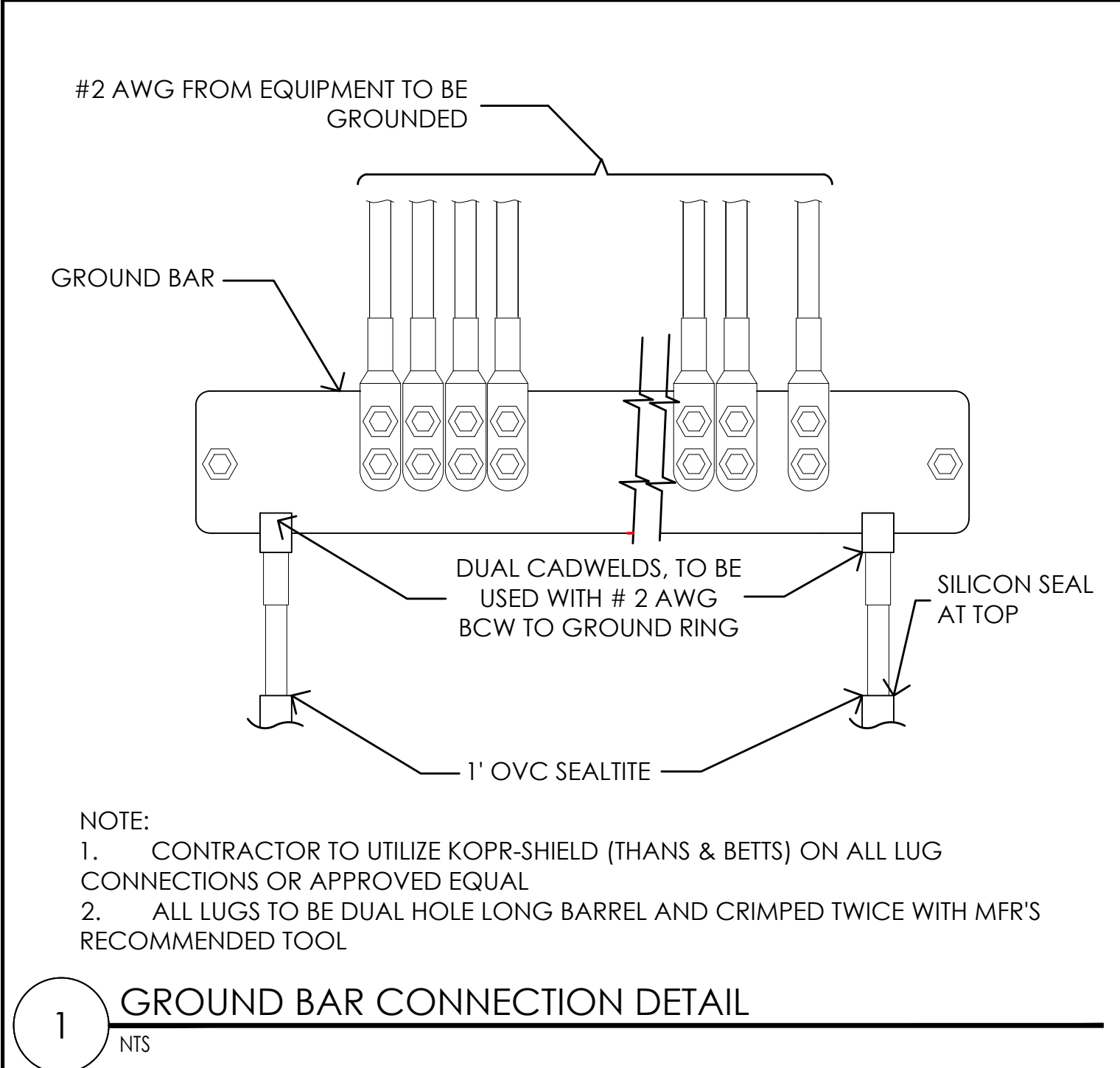
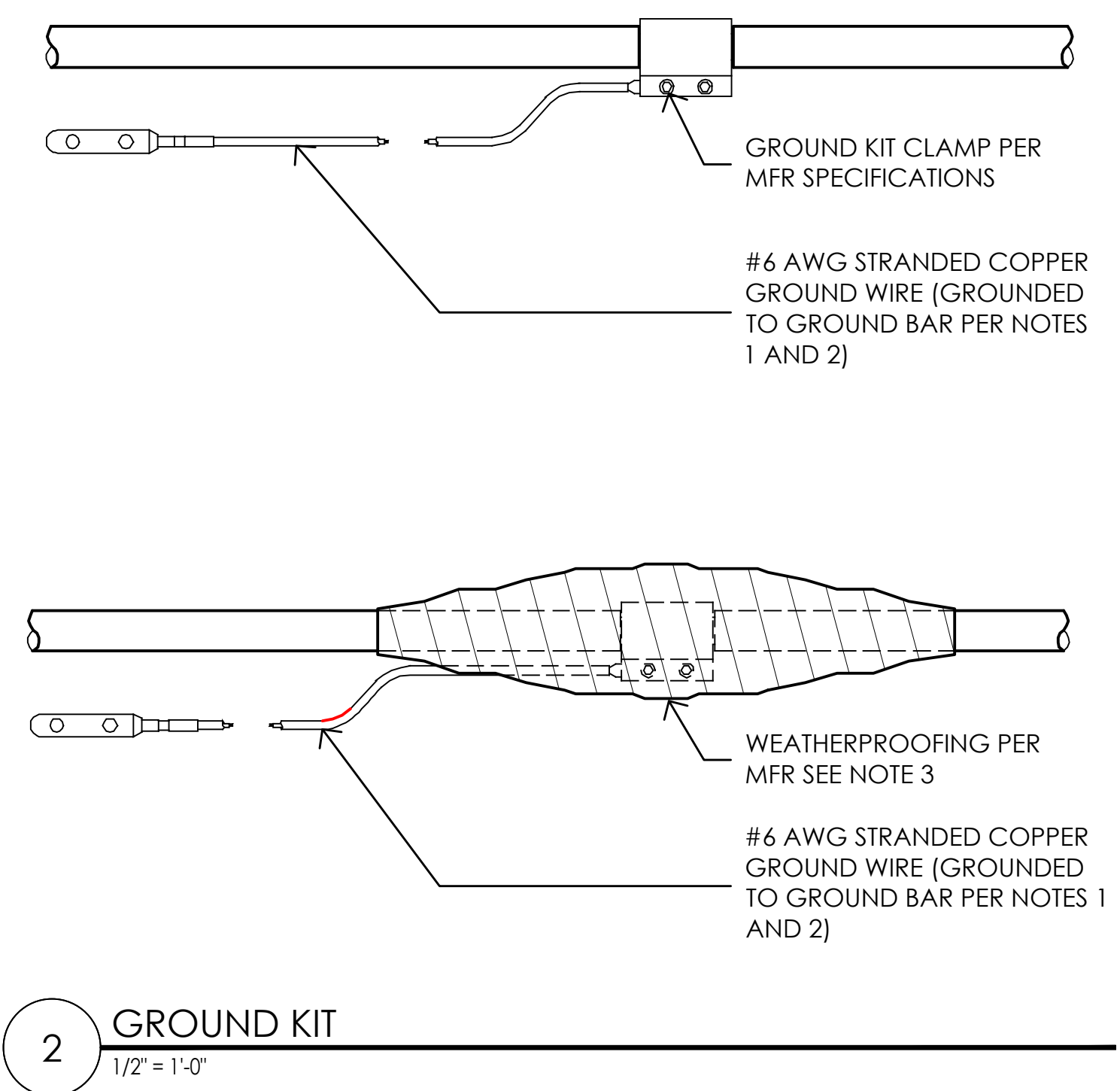
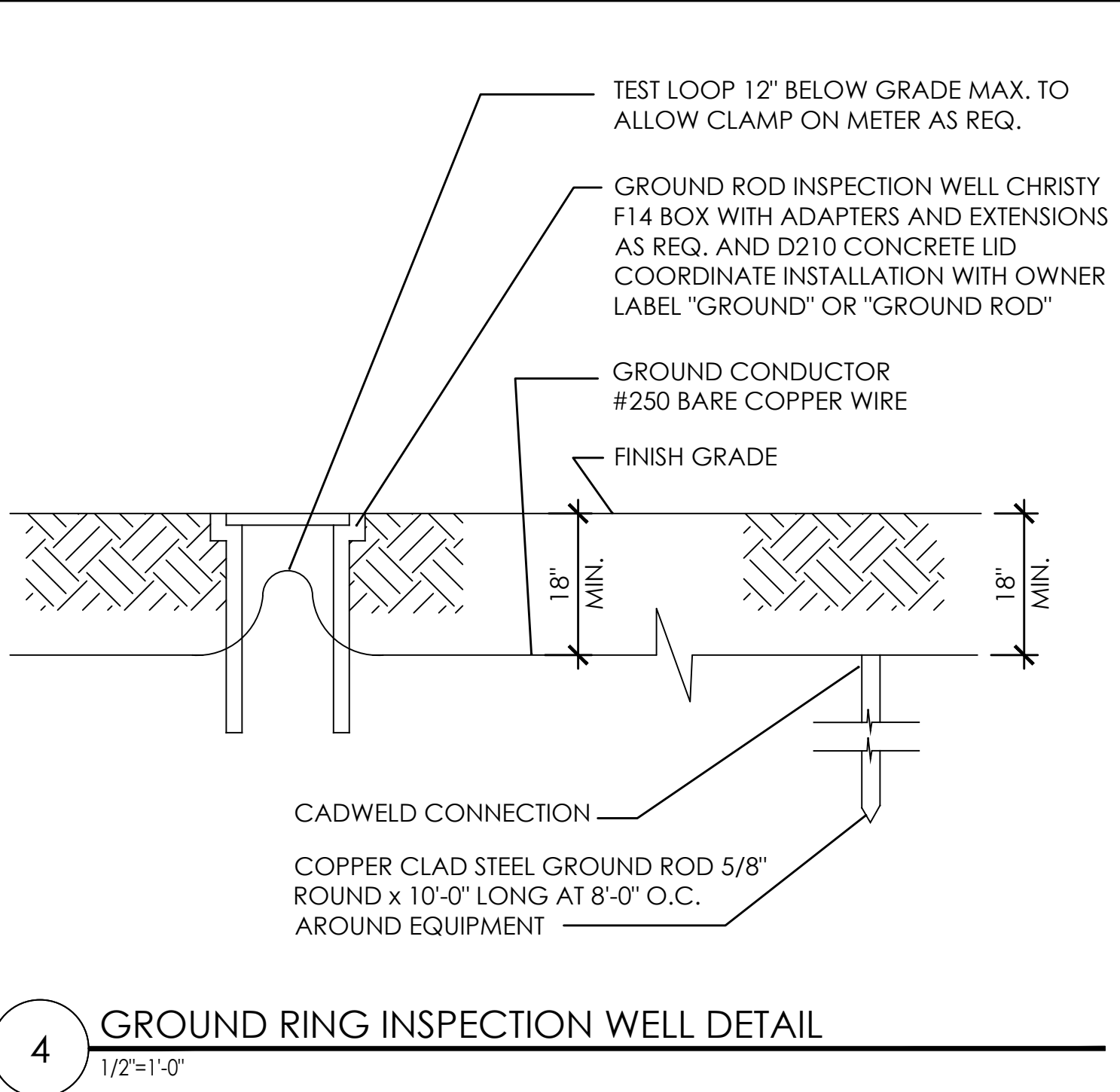
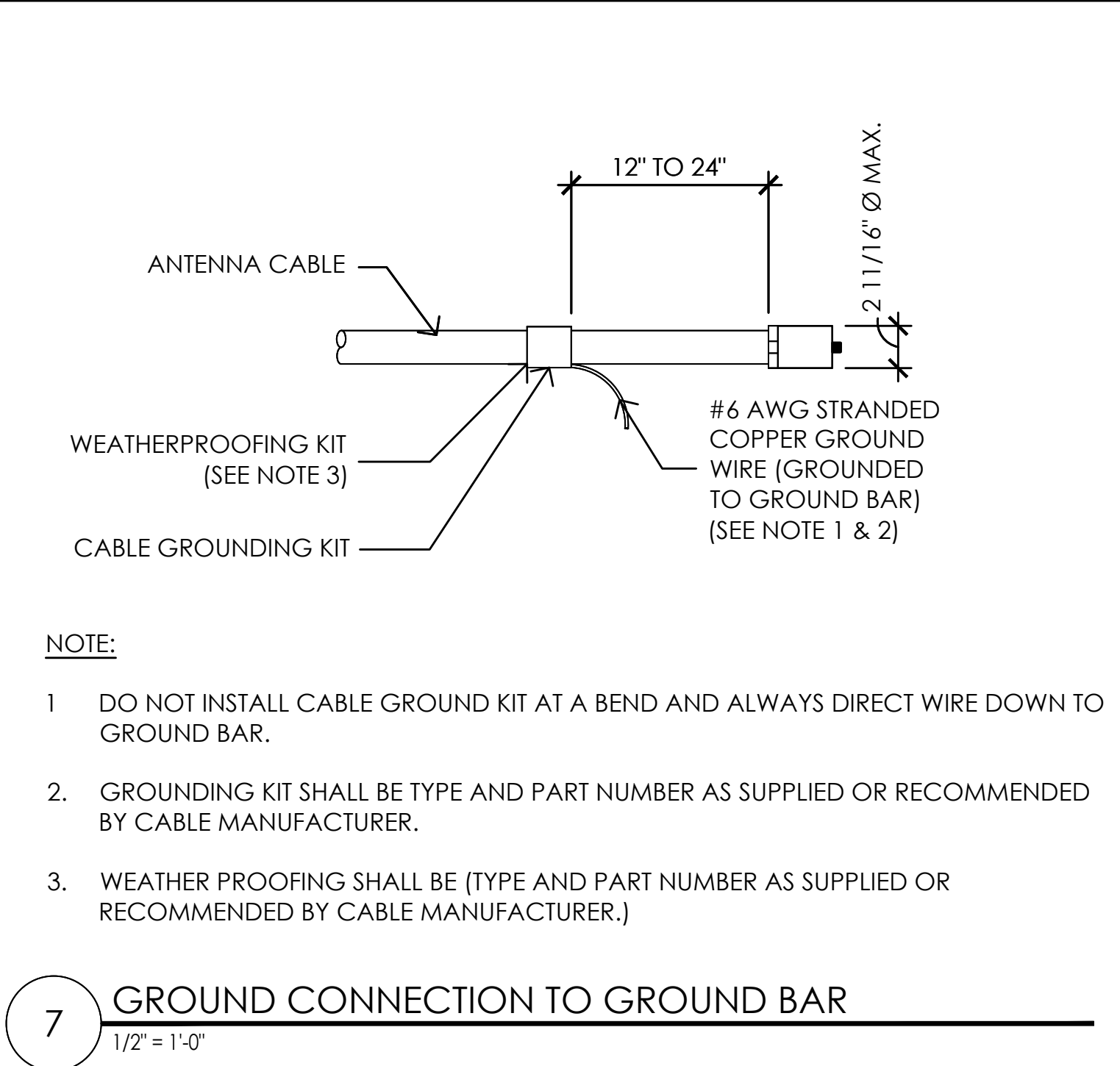
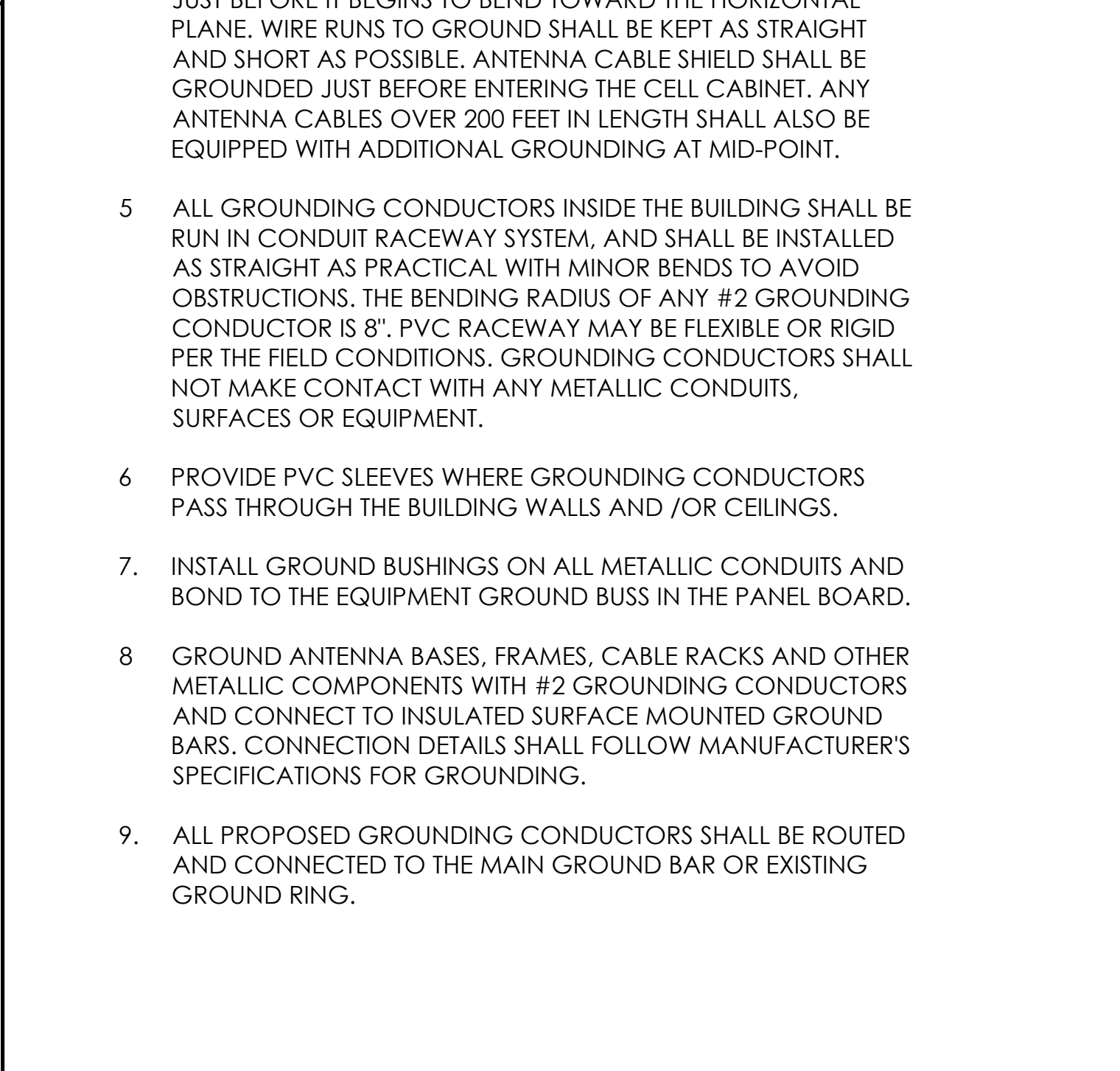
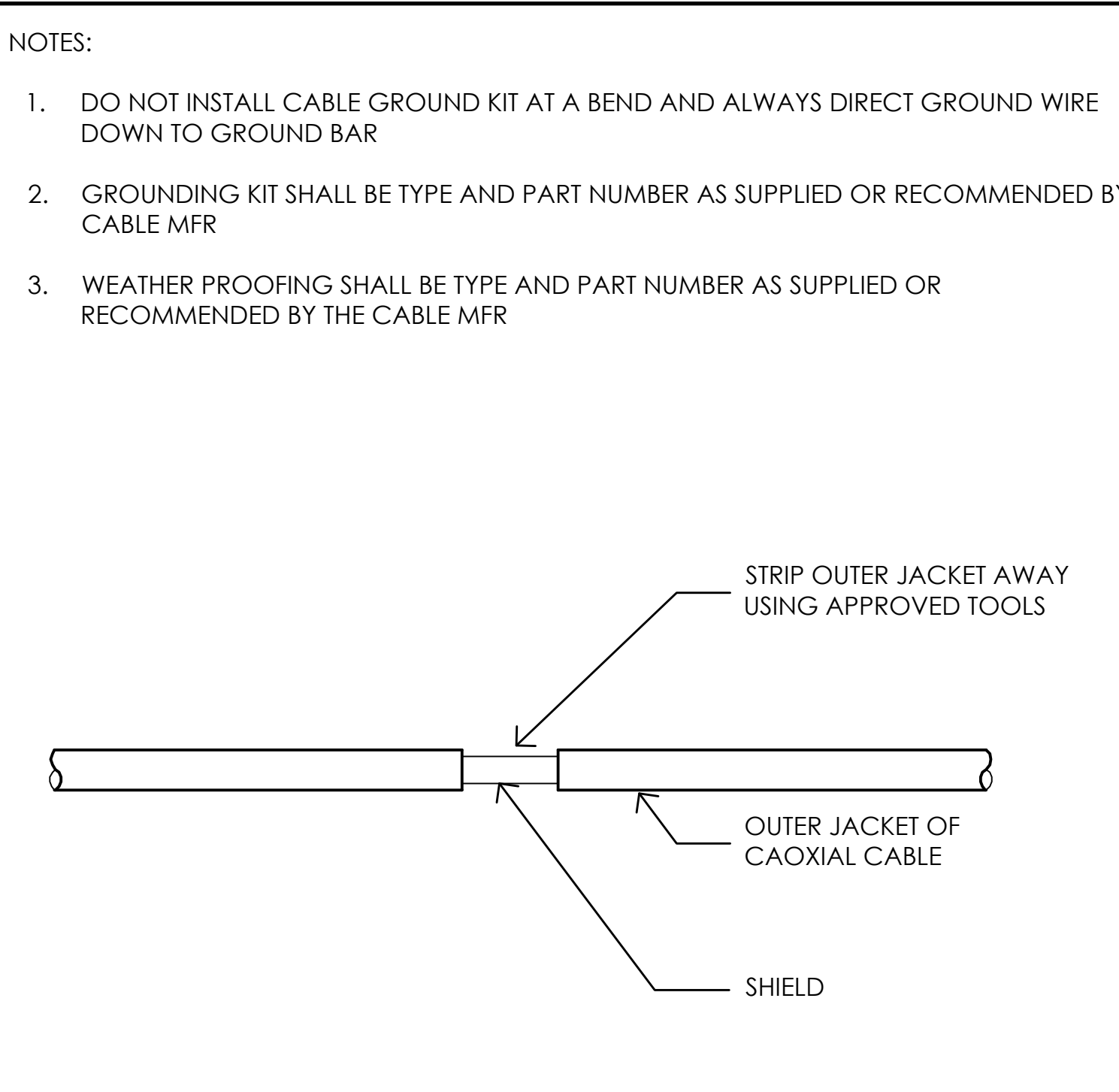
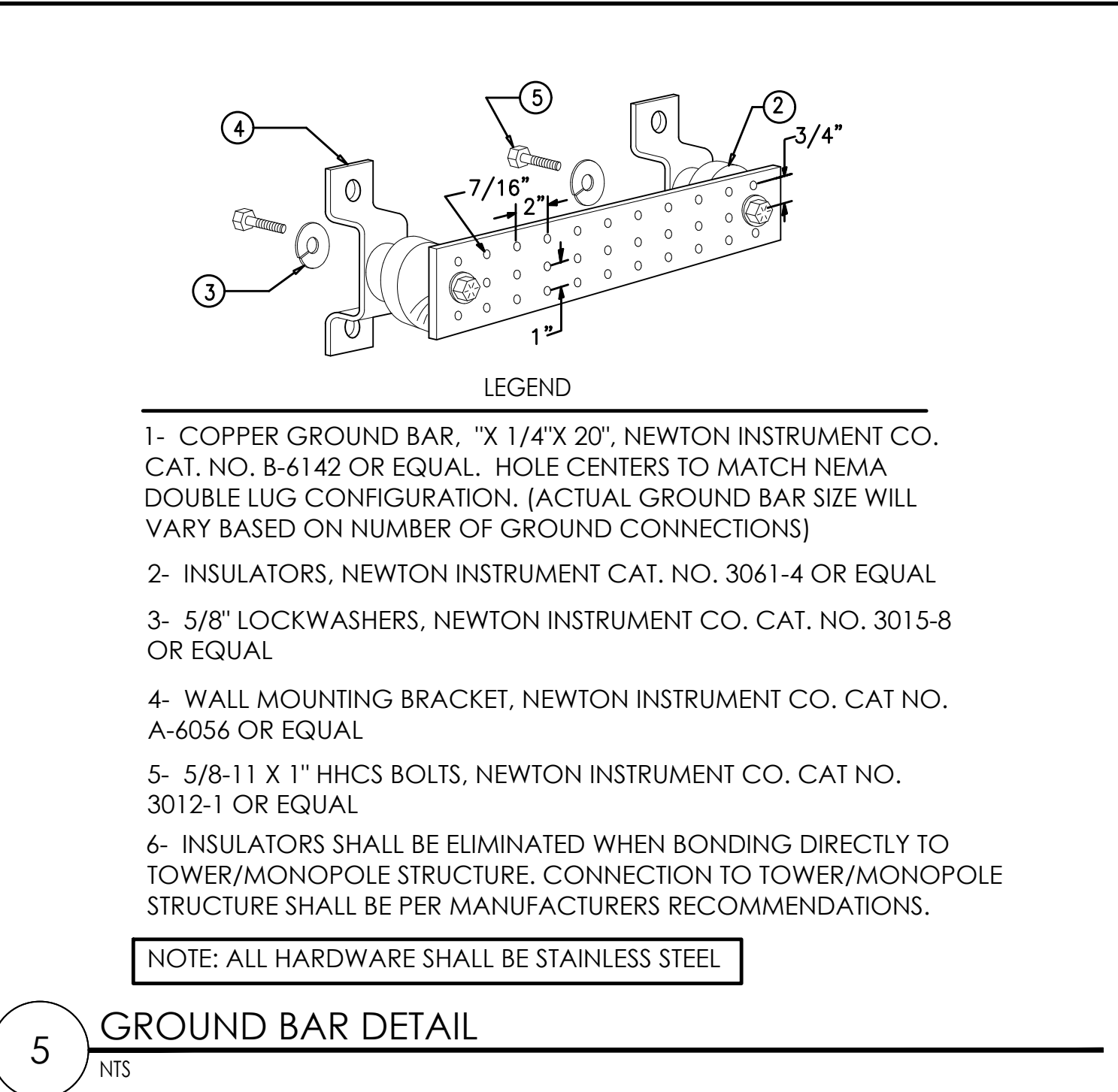
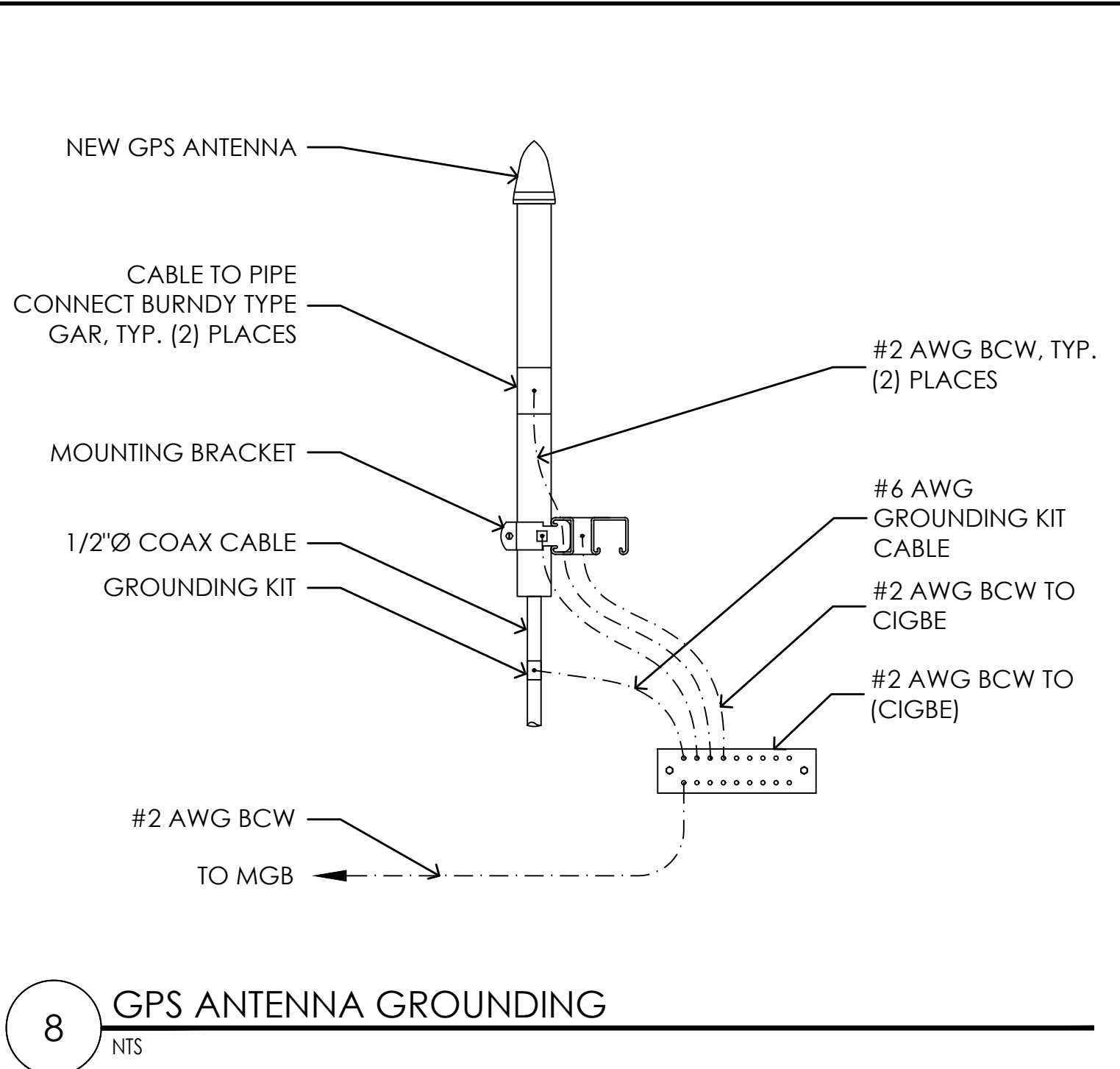


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SHEET TITLE:  
**GROUNDING DETAILS**

SHEET NUMBER:  
**G-2**



7 1/2" = 1'-0"

4 1/2" = 1'-0"

2 1/2" = 1'-0"

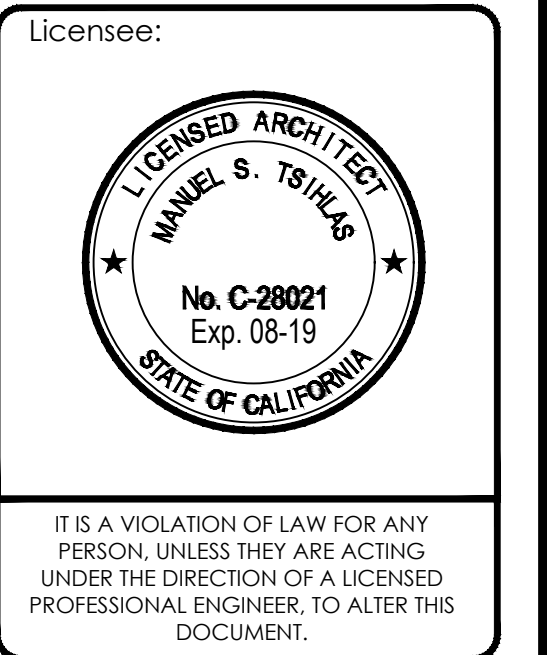
1 NTS

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 716 COLUMBIA STREET  
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AT&T SITE NO: CVL01150  
 PROJECT NO: 162.2188  
 DRAWN BY: MWS  
 CHECKED BY: SST

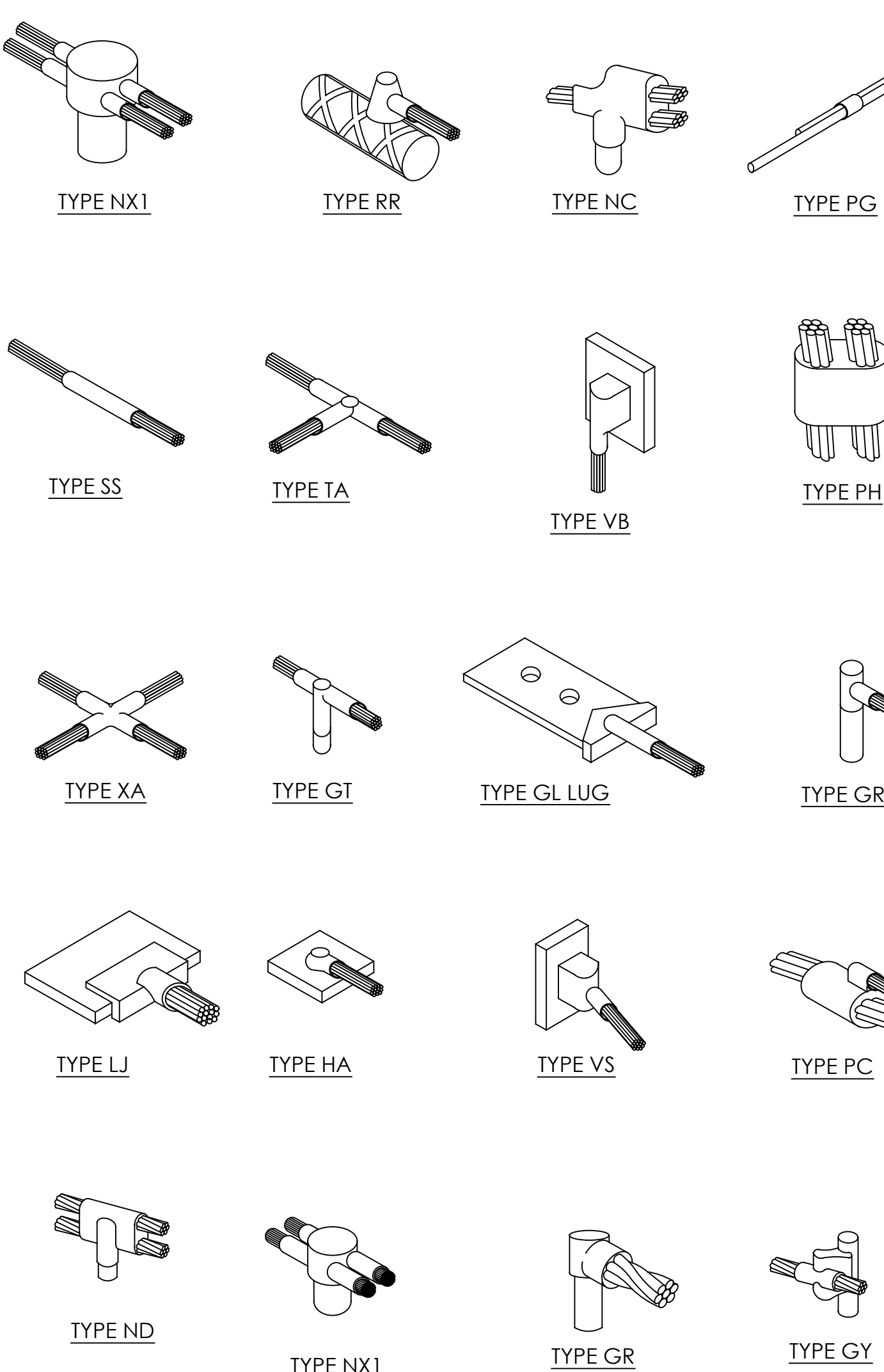
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	08/07/18	90% CD
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	04/27/18	90% ZD



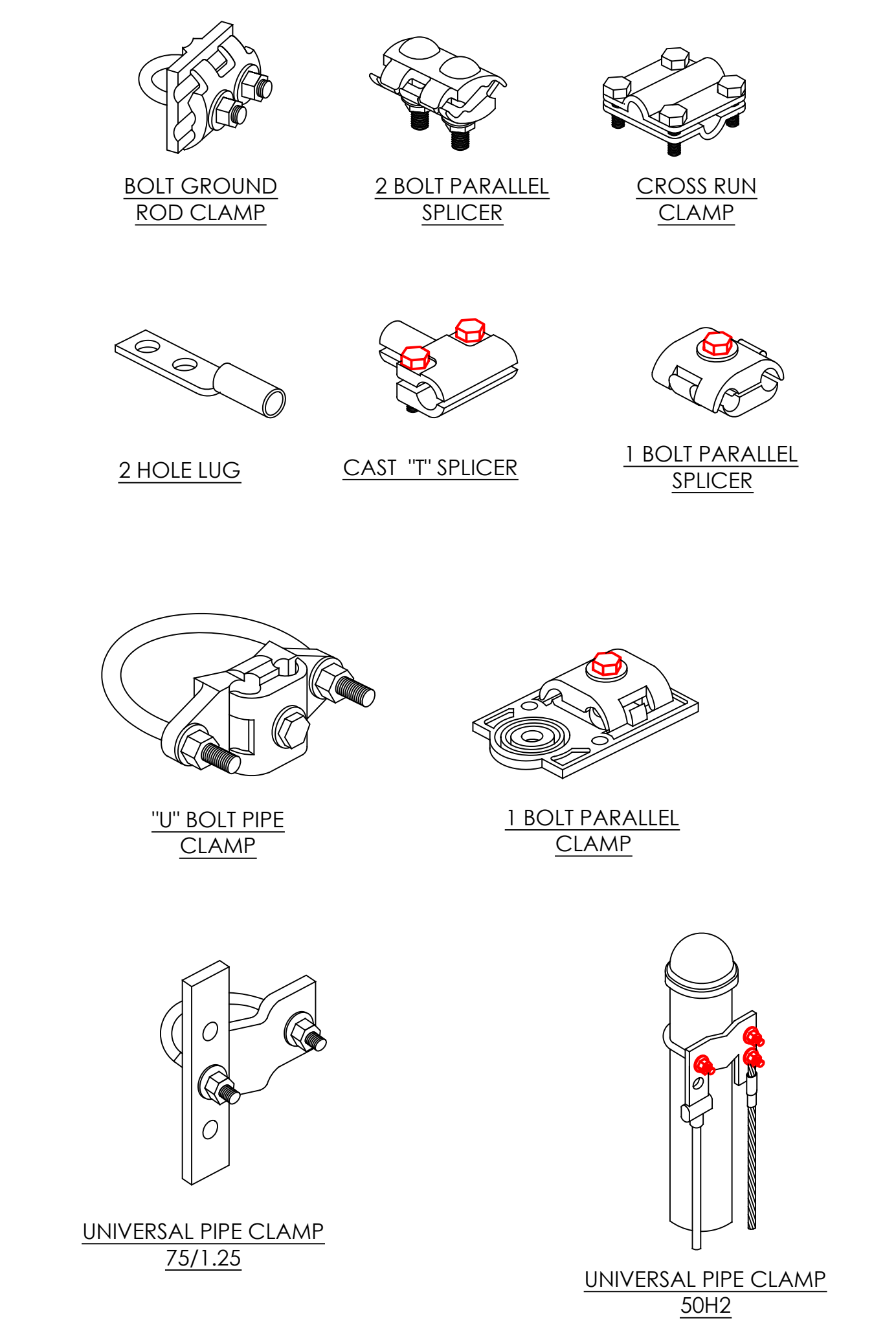
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**GROUNDING**  
**DETAILS**

SHEET NUMBER:  
**G-3**

**2** TYPICAL CADWELD TYPE CONNECTIONS  
 NTS



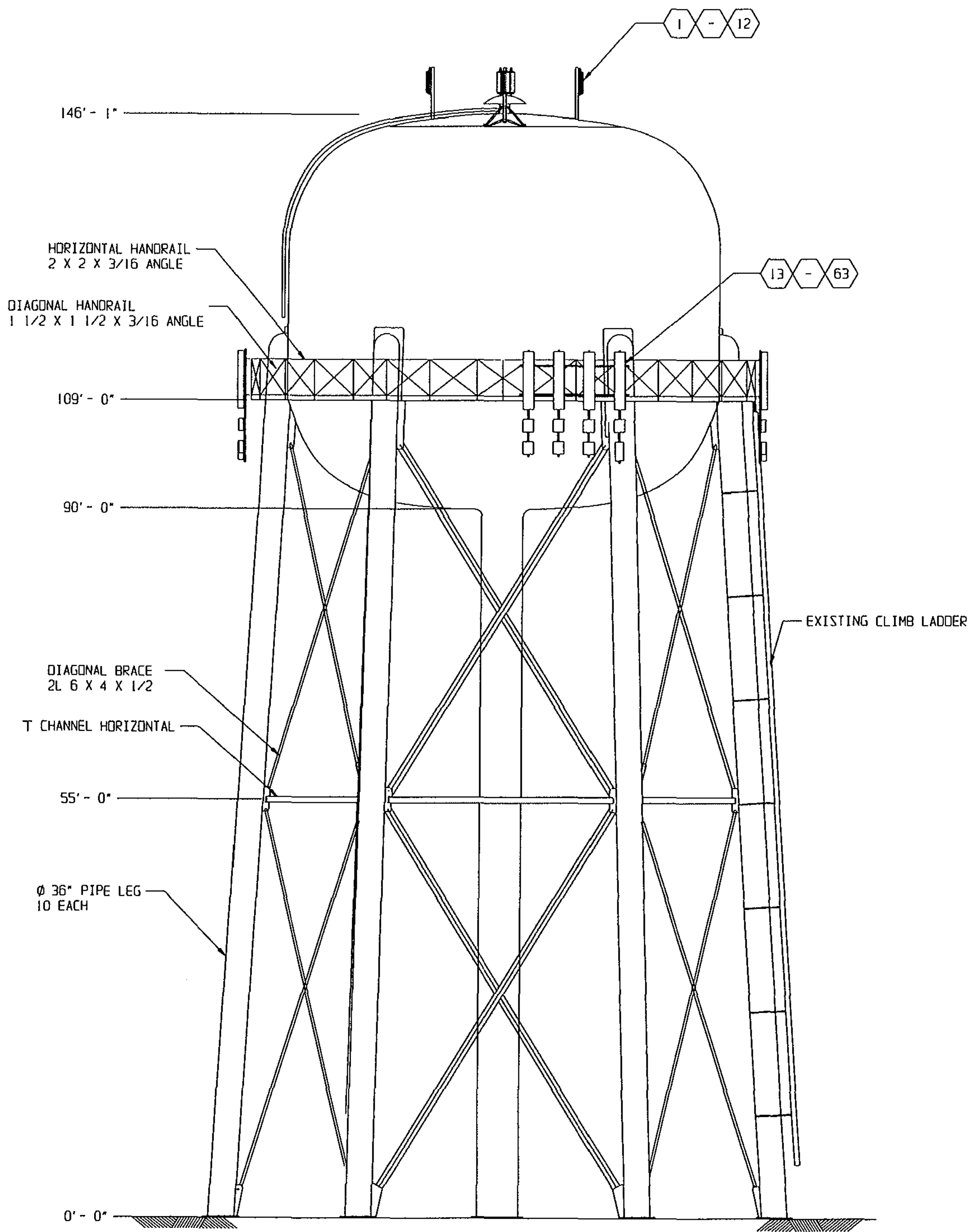
**1** TYPICAL MECHANICAL TYPE CONNECTIONS  
 NTS



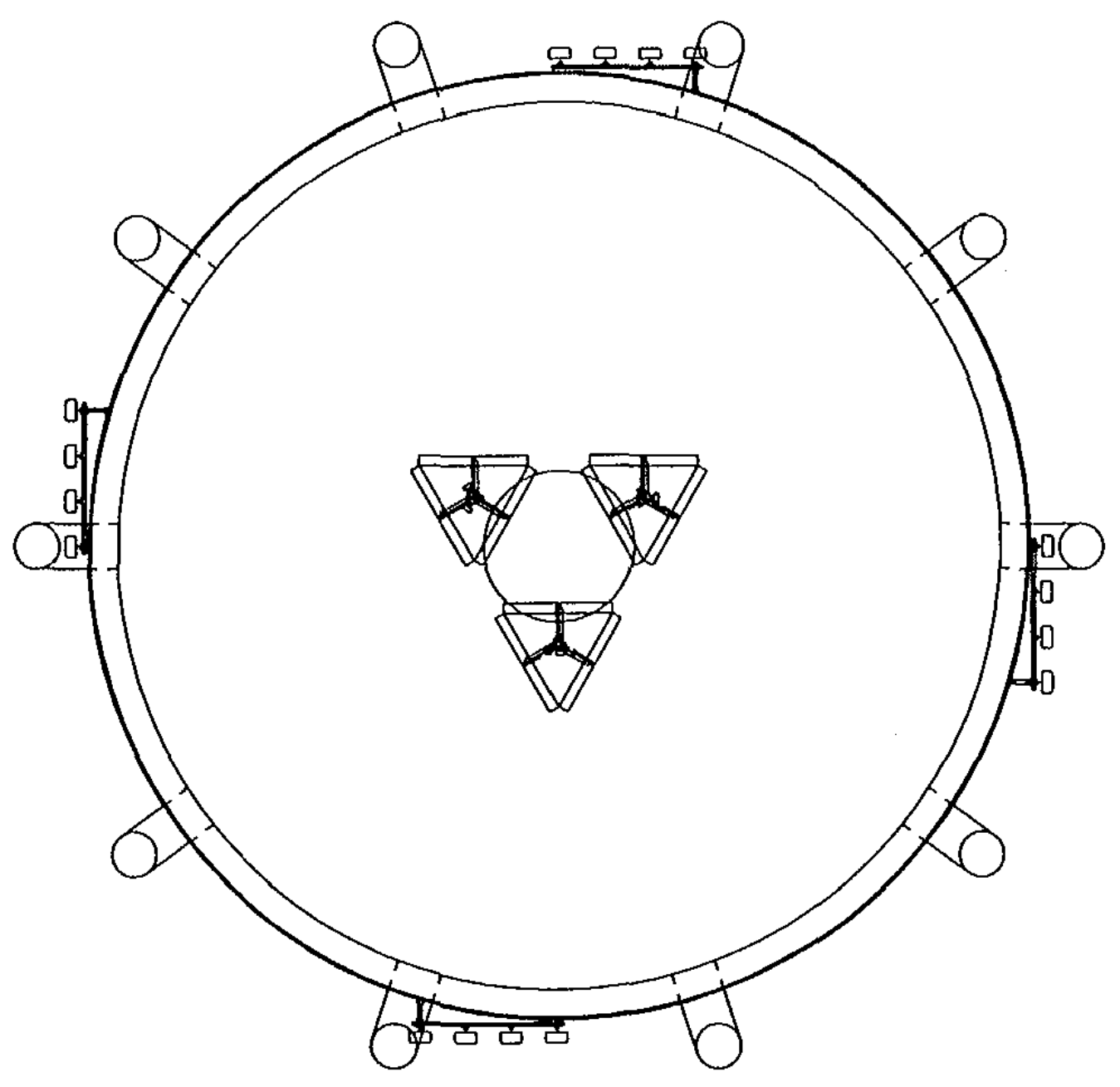
NOTES: UNLESS OTHERWISE SPECIFIED

- THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
- NOTES AND DETAILS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
- THE DETAILS ON THESE DRAWINGS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORMWORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
- THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- THE TOWER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION AND/OR TRANSPORTATION SINCE ERECTION EQUIPMENT AND METHODS ARE UNKNOWN.
- THE TOWER IS DESIGNED TO SUPPORT ONLY THE ANTENNAS AS SHOWN ON THE DRAWINGS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR OVERSTRESS CONDITIONS WHICH MAY OCCUR DUE TO DEVIATIONS IN ANTENNA SIZES AND/OR LOCATIONS FROM THOSE SHOWN ON THE DRAWINGS.
- ALL WORK SHALL COMPLY WITH OSHA SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- FOR THIS PROJECT, THERE IS NO HIGH STRENGTH BOLTING OR WELDING. NO SPECIAL INSPECTION IS REQUIRED.
- THIS PROJECT CONSISTS OF:  
 MOVE EXISTING PANEL ANTENNA TO THE 141' ELEVATION ON NEW TRI-POD ANTENNA MOUNTS.  
 INSTALL (16) QUINTEL QS8458-5 PANEL ANTENNAS, (32) RRU AND (4) SURGE SUPPRESSORS AT THE 111' ELEVATION.

TOWER DESIGN LOADING	
WIND LOAD:	2016 CBC 1609A.1.1, ASCE7-10 BASIC WIND SPEED 110 MPH
EXPOSURE C:	STRUCTURE CLASS II
TOPOGRAPHY CATEGORY:	I WITH A CREST HEIGHT 0'
FOUNDATION REACTIONS:	SHEAR= 170.3 kips, AXIAL= 5854 kips,
	LOAD COMBINATION 1.2D + 1.0W



ANTENNA INFORMATION						
ITEM #	ELEVATION	QUANTITY	ANT. TYPE	AZIM	PROJ'D AREA	LINE SIZE
1-6	146'	6 EA.	PANEL ANTENNA	N / A	2.25 SQ FT	1 e 1 5/8"
7-12	146'	6 EA.	EQUIPMENT	N / A	1.2 SQ FT	18 e 1/4"
13-28	111'	16 EA.	QUINTEL QS8458-5	N / A	14.37 SQ FT	1 e 1 5/8"
29-32	111'	4 EA.	ERICSSON #RRUS-E2	N / A	2.79 SQ FT	
33-40	111'	8 EA.	ERICSSON #4415	N / A	1.84 SQ FT	
41-44	111'	4 EA.	ERICSSON #RRH-32	N / A	3.31 SQ FT	
45-48	111'	4 EA.	ERICSSON #RRH-11	N / A	2.79 SQ FT	
49-52	111'	4 EA.	ERICSSON #4426	N / A	2.79 SQ FT	
53-60	111'	8 EA.	ERICSSON #4478	N / A	2.79 SQ FT	
61-63	111'	4 EA.	RAYCAP SURGE	N / A	1.03 SQ. FT.	



ENGINEER: TASHJIAN TOWERS CORP.  
 KARL K. TASHJIAN  
 2765 S. TEMPERANCE AVE.  
 FOWLER, CA. 93625  
 WORK (559) 834-4300  
 FAX (559) 834-4377  
 MOBILE (559) 284-9707  
 RCE #35542

CARRIER:  
 AT&T  
 2600 CAMINO RAMON  
 SAN RAMON, CA N 94583

CONSULTANT:  
 COMPLETE WIRELESS CONSULTING  
 2009 V STREET  
 SACRAMENTO, CA 95818

JOB ADDRESS:  
 CVL01150  
 COLUMBUS ST & RIVERSIDE DR  
 716 COLUMBIA ST  
 MADERA CA 93638



PART NO.		TASHJIAN TOWER CORPORATION 2765 S. TEMPERANCE AVENUE, FOWLER, CALIF. 93625	
APPROVALS	DATE	TITLE WATER TANK	
DRAWN TAM	10/01/18	COLUMBUS ST. & RIVERSIDE DRIVE AT&T	
CHECKED		SIZE	REV.
ENG. APPD.		D	S-1
DO NOT SCALE DRAWING	SCALE NONE	SHEET 1 OF 1	