INCORPORATED COUNTY OF LOS ALAMOS ORDINANCE NO. 730

AN ORDINANCE RATIFYING AND AUTHORIZING AMENDMENT OF A LEASE WITH CELLCO PARTNERSHIP, D/B/A VERIZON WIRELESS FOR REPLACEMENT OF EXISTING ANTENNA COLLOCATION AND FACILITIES AT 280 NORTH MESA ROAD, LOS ALAMOS, ON THE NORTH MESA WATER TOWER

- WHEREAS, the Incorporated County of Los Alamos ("County") entered into a Lease for Antenna Collocation and Facilities Site ("Lease") with Verizon Wireless (VAW) LLC, d/b/a Verizon Wireless ("Verizon") on July 21, 2005, for the placement and use of certain wireless telecommunication equipment on the North Mesa Water Tower ("Water Tower"); and
- **WHEREAS**, the leased space is located at 280 North Mesa Road, Los Alamos, New Mexico 87544 ("Property") and includes both ground equipment and certain antennas on County's Water Tower; and
- WHEREAS, Cellco Partnership ("Cellco") became a successor in interest of the Lease with Verizon; and
- **WHEREAS,** on December 12, 2022, County received a request from Cellco to modify the existing antenna equipment and Lease on the Water Tower and Property; and
- **WHEREAS**, County has worked with Cellco since that time to identify current ground and antenna equipment, including the proposed additions and/or equipment replacements, and reviewed and approved a Cellco-produced structural analysis and engineered site plan; and
- **WHEREAS**, the Department of Public Utilities ("DPU") and other affected departments have reviewed the proposed plans and specifications as provided by Cellco and find that the proposed Lease Amendment, attached hereto as Attachment A, is appropriate for the further improvement of wireless telecommunication services within the County.

BE IT ORDAINED BY THE GOVERNING BODY OF THE INCORPORATED COUNTY OF LOS ALAMOS:

- **Section 1.** The County Council finds ratification and Amendment of the Lease is appropriate and will improve wireless telecommunication services in the County.
- **Section 2.** The Utilities Manager is hereby authorized to take all action necessary to carry out the amendment of the Lease with Cellco.
- **Section 3.** <u>Severability.</u> Should any section, paragraph, clause or provision of this Ordinance, for any reason, be held to be invalid or unenforceable, the invalidity or unenforceability of such section, paragraph, clause or provision shall not affect any of the remaining provisions of this Ordinance.

Section 4. Effective Date. This Ordinance shall become effective thirty (30) days after publication of notice of its adoption.

Section 5. <u>Repealer.</u> All other ordinances or resolutions, or parts thereof, inconsistent herewith are hereby repealed only to the extent of such inconsistency. This repealer shall not be construed to revive any ordinance or resolution, or part thereof, heretofore repealed.

PASSED AND ADOPTED this 26th day of March 2024.

	COUNCIL OF THE INCORPORATED COUNTY OF LOS ALAMOS, NEW MEXICO
ATTEST: (Seal)	Denise Derkacs, Council Chair
Naomi D. Maestas, Los Alamos County Clerk	

AMENDMENT NO. 3

LEASE FOR ANTENNA COLLOCATION AND FACILITIES SITE Between INCORPORATED COUNTY OF LOS ALAMOS, An Incorporated County of the State of New Mexico, As Landlord And CELLCO PARTNERSHIP, D/B/A VERIZON WIRELESS, As Tenant

This **AMENDMENT NO. 3** is entered into by and between the **Incorporated County of Los Alamos**, an incorporated county of the State of New Mexico ("County" or "Landlord"), and **Cellco Partnership**, **d/b/a Verizon Wireless** ("Tenant"), to be effective for all purposes April 1, 2024.

WHEREAS, the original solicitation for Wireless Communications Facilities Lease, Request for Proposals, No. 2002-1350 (the "RFP") was issued on November 13, 2001; and

WHEREAS, County and Tenant, or their predecessors-in-interest, entered into a Lease Agreement for Antenna Collocation and Facilities Site ("Lease Agreement") on July 21, 2005, with the Primary Term of sixty (60) months. The Lease Agreement gave Tenant the right to extend the lease term for five (5) periods of five (5) years each by giving written notice of renewal to County at least ninety (90) days prior to the expiration of the then-current lease term; and

WHEREAS, the Primary Term was extended on October 1, 2010; and

WHEREAS, the Lease Agreement was amended pursuant to a certain Amendment No. 1 effective April 30, 2011 ("Amendment No. 1"); and

WHEREAS, the Lease Agreement was amended pursuant to a certain Amendment No. 2 effective October 1, 2015 ("Amendment No. 2"); and

WHEREAS, Tenant wishes to modify some of the major equipment to be used on the site identified in amended Exhibit B-3 of the Lease Agreement. Tenant will replace all nine (9) existing panel antennas with nine (9) new panel antennas; remove six (6) existing Tower Mounted Amplifier (TMA) units; install three (3) new Remote Radio Head (RRH) units; retain six (6) RRH units; retain one (1) hybrid line of coax; retain twelve (12) coaxial cables, Remote Electrical Tilt (RET); and retain one (1) twelve port junction box. All new equipment will be mounted at the very same location and heights as the existing antennas, will not extend beyond their current top height, and the modification will have no impact on the current facility's ground footprint, nor will it require any ground or water tank disturbance, all and only as shown in the ten (10) page plan set last revised on April 6, 2023 ("Plans") that are attached hereto as Exhibit B-4 and incorporated herein by this reference; and

WHEREAS, Tenant intends that Landlord rely on and Landlord does rely on the accuracy and reliability of all of the information in Exhibits B-4 (engineered plans); and

WHEREAS, Council now ratifies and affirms the award of this Amendment No. 3 and finds that ratification and affirmation of this Amendment No. 3 is in the best interest of County; and

WHEREAS, The Board of Public Utilities approved this Amendment No. 3 at a public meeting held on February 21, 2024; and

WHEREAS, the County Council approved this Amendment No. 3, by Ordinance No. 730, at a public meeting held on March 26, 2024.

NOW, THEREFORE, for good and valuable consideration, County and Tenant agree as follows:

- **I.** The Tenant agrees that in connection with this Amendment No. 3 the County is acting solely within its proprietary rights and authority as a property owner.
- II. To include a new Exhibit B-3 attached hereto, in its entirety. Exhibit B-3 is intended to supplement Exhibit B and Exhibit B-1 to the Lease Agreement. To the extent of a conflict between Exhibit B or Exhibit B-1 and Exhibit B-3, Exhibit B-3 shall control.
- III. ADMINITRATIVE AND SITE REVIEW FEE. Within ninety (90) days after the parties fully execute this Amendment No. 3, Tenant shall pay to Landlord a nonrefundable one-time administrative and site review fee equal to FIFTEEN THOUSAND DOLLARS (\$15,000.00) to cover Landlord's costs to review and execute this Amendment No. 3. The Administrative and Site Review Fee shall not be any offset to any Rental owed under this Third Amendment and is fully earned and non-refundable by Landlord upon the full execution of this Third Amendment.

Except as expressly modified by this Amendment No. 3, the Lease Agreement is hereby ratified and reaffirmed, and the terms and conditions of the Lease Agreement remain unchanged and in effect.

IN WITNESS WHEREOF, the parties have executed this Amendment No. 3 on the date(s) set forth opposite the signatures of their authorized representatives to be effective for all purposes on April 1, 2024.

CODDODATED COUNTY OF LOS ALAMOS

ATTECT

ATTEST	INCORPORATED COUNTY OF LOS	ALAWOS
	BY:	
NAOMI D. MAESTAS	PHILO S. SHELTON III, P.E.	DATE
COUNTY CLERK	UTILITIES MANAGER	
Approved as to form:		
J. ALVIN LEAPHART		
COUNTY ATTORNEY		

STATE OF NEW MEXICO)
COUNTY OF LOS ALAMOS	: SS)
	,
	owledged before me thisday of March 2024, s Manager for the Incorporated County of Los Alamos.
	NOTARY PUBLIC
My Commission Expires:	

	Cellco Partnership, D/B/A Verizon Wireless
	Ву:
	Name:
	Date:
	Title:
STATE OF ARIZONA) : SS COUNTY OF MARICOPA)	
evidence to be the person whose name acknowledged to me that he executed the sa signature on the instrument the person, or the executed the instrument.	who proved to me on the basis of satisfactory is subscribed to the within instrument and me in his authorized capacity, and that by his entity upon behalf of which the person acted, there have of the State of Arizona that the
WITNESS my hand and official seal.	
	Signature of notary Public
(Seal)	

Amendment No. 3
Lease for Antenna Collocation and Facilities Site
between Incorporated County of Los Alamos and Cellco Partnership, dba Verizon Wireless

EXHIBIT B-3

Amendment No. 3

Verizon North Mesa Water Tower Equipment Changes

REMOVING:

- Nine (9) existing panel antennas
- Six (6) existing TMA Units

INSTALLING:

- Nine (9) new panel antennas
- Three (3) RRH units

RETAINING:

- Six (6) RRH Units
- One (1) hybrid line of coax
- Twelve (12) coaxial cables (RET)
- One (1) twelve port junction box



NM4 QUEMAZ VERIZON SITE NAME:

SITE ADDRESS:

PROJECT TYPE

SITE TYPE:

280 N MESA RD LOS ALAMOS, NM 87544

EXISTING COMMUNICATION SITE 5G L-SUB6 - CARRIER ADD

	SHEEL SHEET DESCRIPTION TITLE SHEET	GN1 GENERAL NOTES	GN2 GENERAL NOTES	GN3 SYMBOLS & ABBREVIATIONS	-	\vdash	C3 EXISTING AND PROPOSED TOWER ELEVATIONS	\dashv	C5 RF DATA SHEET & COAX ANTENNA DIAGRAM	GI GROUNDING DEIAILS										STON CININOS		ABANDONMENT: ALL WIRELESS TELECOMMUNICATIONS FACILITIES WHICH ARE NOT I	SHALL BE REMOVED BY THE WIRELESS TELECOMMUNICATIONS FAC	PLACE WITHIN THREE MONTHS OF THE END OF SUCH THREE MON
PROJECT TEAM	SITE REP: VERIZON CONSTRUCTION MANAGER		PHONE: 5005.891.6550		ADDRESS: 3060 MERCER UNIVERSITY DR.		ATLANTA, GA 30341	CONTACT: PATRICK COLLINS		STRUCTURAL FNGINFER: GFOSTRUCTURAL, LLC.					APPROVALS	 DATE:	Verizon site aq:		VERIZON RE:		VFRIZON CONST.		VERIZON OPS:	
PROPERTY INFORMATION	35.896674" / -106.295104"	35° 53° 48.02"N / 106° 17° 42.37"W	7240't AMCI (NAVIDSE)	1349 I AMSE (NAVIDO)	LOS ALAMOS COUNTY	LOS ALAMOS COUNTY		LOS ALAMOS	VERIZON WIRELESS	4821 EUBANK BLVD NE	ALBUQUERQUE, NM 8/111	t	XXXX SQ. FI.	INCORPORATED COUNTY OF LOS ALAMOS	2451 CENTRAL AVE, STE A LOS ALAMOS, NM 87544		TIM GLASCO 505.662.8148	COLLEGE TO VEHICLE STANDON	INCURPORALED COUNTY OF LOS ALAMOS 2451 CENTRAL AVE. STE A	LOS ALAMOS, NM 87544		TIM GLASCO 505.662.8148		XXXX
PROPE	SITE COORDINATES:	(LAT/LONG)	AD III OUT	GROUND ELEV:	JURISDICTION:	COUNTY:		CITY/TOWN:	APPLICANT/LESSEE:	ADDRESS:		101111111111111111111111111111111111111	IOIAL LEASE AREA:	PROPERTY OWNER:	ADDRESS:		CONTACT: PHONE:	Tomor Climor	ADDRESS:			CONTACT: PHONE:		POWER COMPANY:

Veri_onwireless

INDEX

DRAWING

ALBUQUERQUE, NM 87111

3060 MERCER UNIVERSITY DR.

ATLANTA, GA 30341

MA

DRAWN BY

4821 EUBANK BLVD NE

SCOPE DESCRIPTION PROJECT

LANDLORD:

×

TELCO COMPANY:

CHANGES TO THE EXISTING VERIZON TOWER EQUIPMENT: THIS PROJECT WILL BE COMPRISED OF:

REMOVE (9) EXISTING ANTENINAS REMOVE (6) EXISTING DIPLEXERS INSTALL (9) NEW ANTENINAS INSTALL (3) NEW CBRS RRH'S

CHANGES IN THE EXISTING VERIZON EQUIPMENT AREA: INSTALL (1) NEW C-BAND 6648

ZONING NOTES

ALL WIRELESS TELECOMMUNICATIONS FACILITIES WHICH ARE NOT IN USE FOR THREE CONSECUTIVE MONTHS SHALL BE REMOVED BY THE WIRELESS TELECOMMUNICATIONS FACILITY COWNER. THIS REMOVAL SHALL TAKE PLACE WITHIN THREE MONTHS OF THE END OF SUCH THREE MONTH PERIOD. UPON REMOVAL THE SITE SHALL BE REVEGERATED TO BLEND IN WITH THE ENSITING SURGINGING VEGERATION. HEALTH ASSUES:

ENEATH ISSUES:
ENEATH ISSUES:
ELECTROMACHER FILE DAMAINATIONS FACILITY SHALL MEET HEALTH AND SAFETY STANDARDS FOR SUCCESSOR THEREOF, AND ANY OTHER FEDERAL OR STATE AGENCY.
ENEX.
EVEC.

LIGHTING/SIGNAGE:
UGHTING/SIGNAGE:
UCHTING/SIGNAGE:
COMPRELESS TELECOMMUNICATIONS FACULTY SHALL MEET THE NIGHT SKY RESTRICTIONS OF THE
COMPREHENSIVE CITY ZONING CODE. LIGHTING OR SIGNS WILL BE PROVIDED ONLY AS REQUIRED BY FEDERAL
OR STATE AGENCIES.
FCC. COMPLIANCE
RADATION FROM THIS FACULTY WILL NOT INTERFERE WITH OPERATION OF OTHER COMMUNICATION DEVICES.
ADA COMPLIANCE
THIS FACULTY IS UNMANNED AND NOT FOR HUMAN HABITATION. LANDINGS AND EXITS SHALL COMPLY WITH ALL
APPLICABLE BUILDINGS CODES.

COMPLIANCE

STATE, ALL CONTRACTOR'S & SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STA AND LOCAL CODES AS ADOPTED BY THE LOCAL ANTHORITY HANNG, JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE: ELECTRICAL CODE:

LIGHTINING PROTECTION CODE: NFPA 780 - 2014, LIGHTINING PROTECTION CODE international Building code 2015 National Fire Protection Association (NFPA) 70 National Electrical Code 2014

ALL CONTRACTOR'S & SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS: AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222—G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES: TELEN ANTENNA BULDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
 IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC

EQUIPMENT
IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS
(FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
TELCORDIA GR-1275, GENERAL INSTALATION REQUIREMENTS
TELCORDIA GR-1203, GOAZHA CABLE CONNECTIONS
ANSI 11.311, FOR TELECOM — DC POWER SYSTEMS — TELECOM, ENVIRONMENTAL PROTECTION

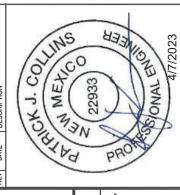
GENERAL COMPLIANCE
1. NO HAZARDOUS OR COMBUSTIBLE MATERIAL WILL BE STORED WITHIN THE FACILITY.
2 DEVELOPMENT AND USE OF THIS SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. 2 DEVELOPMENT AND USE OF 1110 CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF 2A-10BC 1. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF 2A-10BC

2. CONTRACTOR TO INSTALL FIRE DEPARTMENT APPROVED "KNOX BOX" PER DEPARTMENT REGULATIONS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS RECARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE RECOUREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL RECUIREMENT AND A SPECIFIC RECOURSMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.



04/06/23 ISSUED FOR CONSTRUCTION 04/05/23 ISSUED FOR REVIEW DESCRIPTION DATE A P



IT IS A VOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTIVE UNDER THE DEDICATION OF A LLOSSED PROFESSIONAL BURNERS TO ALTER THE DOCUMENT, UNLESS EPILICITY AGEED TO BY CONSITE EDIMENSIONE LLE IN WINNING, AND COLKSITE BURNERSHIK LL DISCLAMES ALL UNGLITY ASSOCIATION WITH THE REJSE, ALTERATION OF PURCONNETS HERBILL REJSE, ALTERATION OF THE CONTENTS HERBILL

SITE NAME: NM4 QUEMAZON

280 N MESA RD LOS ALAMOS, NM 87544 ADDRESS:

SITE TYPE: WATER TANK

TITLE SHEET

SHEET NUMBER:

DIRECTION: FROM 4821 EUBANK BLVD NE HEAD SOUTH ON RIGHT AND HEAD NORTH ONTO 1-25 FOR 60 MILES TO EXIT TURN LEFT HEADING WEST FOR 16 MILES TO LOS ALAMOS, CENTRAL AND STAY ON TRINITY FOR ABOUT 1.5 MILES, DASSING THE GOLF COURSE TO THE ROUND ABO OF THE HILL AND THE WATER TANK.

1. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE SCOPE OF WORK AND ALL CONDITIONS AFFECTING THE PROPOSED PROJECT.

2. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS OF THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THESE CONSTRUCTION DOCUMENTS CAN BE

5. NOTIFY VERIZON WIRELESS, IN WIRTING, OF ANY MAJOR DISCREPANCIES REGARDING THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CARRIFICATIONS FROM A VERIZON WIRELESS REPRESENTATIVE AND AS SHOWN PROR TO COMMENCEMENT OF ANY WORK.

3. ALL FIELD MODIFICATIONS BEFORE, DURING, OR AFTER CONSTRUCTION SHALL BE APPROVED IN WRITING BY A VERIZON WIRELESS REPRESENTATIVE. 4 INSTALL ALL EQUIPMENT AND MATERIALS PER THE MANUFACTURER'S RECOMMENDATIONS, UNLESS INDICATED OTHERWISE

6. CONTRACTOR SYALL BE SOLET RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK UNDER THE CONTRACT.

7. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND FINISHES THAT ARE TO REJAIN. CONTRACTOR SHALL REPAIR KY DAMAGE THAT MAY OCCUR DURING THE CONSTRUCTION TO THE SATISFACTION OF A VERIZON WIRELESS REPRESENTATIVE.

1. THE CONTRACTOR IS RESPONSIBLE FOR RED—LINING THE CONSTRUCTION PLANS TO ILLUSTRAITE THE AS—BULL CONDITION OF THE SITE. FOLLOWING THE FINIAL INSPECTION BY VERIZON WIRELESS, THE CONTRACTOR SHALL PROVIDE VERIZON WIRELESS WITH ONE COPY OF ADJUSTING THE BID ACCORDINGLY.

OCATION MAP

SPECIFI(

ALL RED-LINED DRAWINGS.

EUBANK BLYD., TURN RIGHT AND HEAD WEST ONTO MONTGOMERY BLYD., TURN T #282 IN SANTA FE, TAKE US84/US 285 NORTH TO POJOAQUE AND HWY 502, PASSING THE ARPORT ON THE MESA, CONTINUE PAST THE "Y" IN THE ROAD AT IL DIAMOND DRIVE. TURN RIGHT ON DIAMOND AND HEAD NORTHEAST FOR ABOUT OUT, PROCEED THROUGH ROUND ABOUT TO MESA, FOLLOW MESA TO THE TOP

9. VERIFY ALL FINAL EQUIPMENT WITH A VERIZON WIRELESS REPRESENTATIVE. ALL EQUIPMENT LAYOUT, SPECS, PERFORMANCE INSTALLATION AND THEIR FINAL LOCATION ARE TO BE APPROVED BY VERIZON WIRELESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS/HER WORK WITH THE CLEARANCES REQUIRED BY OTHERS RELATED TO SAID INSTALLATIONS.

San lidefonso Ro

NOTES GENERAL WORK

- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- THE WORK SHALL BE
 RELOCATED AS DIRECTED BY
 ING PIERS AROUND OR NEAR
 E BUT NOT BE LIMITED TO 2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE PROPIECTED AT LITIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK. SHIL BE REI CONTRACTOR. EXTRAIL CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCANATING OR DRILLING UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFET TRAINING FOR THE WORKING GREW. THIS WILL INCLUDE E A) FALL PROTECTION B) CONTINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCANATION.
- 3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS
- ᆼ SITE AND DISPOSED 4. IF NECESSARY RUBISH, STUMPS, DEBRIS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE LEGALLY.
- THE EXECUTION OF THE WILL NOT INTERFERE WITH 5. ALL EXISTING UNACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTLITIES, WHICH INTERFERE WITH THE E WORK, SHALL BE REMOYED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL IN THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTLITIES.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
- 7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE VERIZON WIRELESS SPECIFICATION FOR SITE SIGNAGE.
- 9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT. 8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- 10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION. EQUIPMENT OR DRIVEWAY, 11. THA AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABALIZED TO PREVENT EROSION.
- 12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SIRE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN ACCORDANCE WITH THE LOCAL JUSISDICTION'S GUIDLINES FOR EROSION AND SEDIMENT CONTROL.

STEEL NOTES STRUCTURAL

- 1. ALL STEEL SHALL BE GALVANIZED PER ASTM A 123 AND CONFORM TO THE FOLLOWING MINIMUM SPECS.
 HSS SHAPES & CHANNELS ASTM ASTO, GR. B
 MISC. ANGLES & PLATES ASTM AS6
 BASE PLATES ASTM AS6
 BASE PLATES
 - "--SMAPES & CHANNELS MISC. ANGLES & PLATES BASE PLATES
- OTHERWISE. ALL BOLTED 2 ALL BOLTS SHALL BE GALVANIZED PER ASTM A153 AND CONFORM TO ASTM GRADE A325 UNLESS NOTED CONNECTIONS SHALL BE EQUIPED WITH A PROPER, AND APPROVED NUT-LOCKING DEVICE.
- BE PERFORMED BY 3 ALL WELDING WORK SHALL CONFORM TO THE AWS D1.1 STRUCTURAL WELDING CODE. ALL WELDING SHALL CERTIFIED WELDERS ONLY, WELDING ELECTRODES SHALL BE E70XX.
- 5 THE CONTRACTOR SHALL SUBMIT DETAILED, ENGINEERED, COORDINATED AND CHECKED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL TO THE CODES, LATEST EDITION. ENGINEER OF RECORD TO REVIEW FOR COMPLIANCE WITH DESIGN INTENT PRIOR TO THE START OF FAB. AND/OR ERECTION. 4 ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AISC SPECS AND
- 6 TORCH-CUTIING OF ANY KIND SHALL NOT BE PERMITIED.1.
- 7. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROLECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
- 8. ALL WELDING SHALL BE PERFORMED USING EYDXX ELECTRODED AND WELDING SHALL CONFORM TO AISC, WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE UZ.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", PAINTED SURFACES SHALL BE TOUCHED UP.
 - 9. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE $(3/4^*6)$ Connections and shall have minimum of two bolts unless noted otherwise.
- NOTED OTHERWISE. 10. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA, ASTM A 307 BOLTS UNLESS
- "SELECTION, DESIGN, S SITE FACILITIES". ANCHORS MINGS. NO REINFORCING STEEL 11. POST INSTALLED ANCHORS SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION 36S-T18-00013 SHALL BE HILLI OR APPROVIDE EQUAL INSTALLED, INSPECTED AND TESTED AS SHOWN ON THE DESIGN DRAW SHALL BE HILLI OR APPROVIDE EQUAL INSTALLED, INSPECTED AND TESTED AS SHOWN ON THE DESIGN DRAW SHALL BE CIT WITHOUT PROPE BOUNDERING APPROVAL.

WOOD FRAMING NOTES

ALL TIMBER JOISTS & LEDGER SHALL CONFORM TO THE FOLLOWING MINIMUM STRUCTURAL PROPERTIES:

Fb = 1,300 psi
Fb = 7,00 ksi
E = 1,300 ksi

CONCRETE NOTES

- 1. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4,000 PSI @28 DAYS
- 2. ALL REINFORCING STEEL SHALL CONIFORM TO ASTM A615 GRADE 60.
- 3. CONTRACTOR SHALL PROVIDE CLEARANCE FOR ALL REBAR OF 3" UNLESS NOTED OTHERWISE
- 4. ALL REBAR SHALL BE SUPPORTED ABOVE SOIL SURFACE WITH ACI-APPROVED METAL REBAR CHAIRS.

STUCCO

- 1. METAL LATHING & ACCESSORIES SHALL CONFORM TO ASTM 1063-86, MISFA "TECHNICAL BULLETN 101 " AND ASTM C 841 FOR SELECTION OF METAL LATH FOR EACH APPLICATION INDICATED, AND FS QQ-L-101. MANUFACTURER'S STANDARD STEEL GALYANIZED FINISH (ASTM A 525 G90) ON STEEL PRODUCTS.
- STUCCO MESH SHALL BE GALVANIZED HEXACONAL WOVEN SIDE MESH 1-1/2", 17 GA., SELF FURRED.
- EXTERIOR GALVANIZED DIAMOND MESH LATH OF 3.4 Ibs. PER SQ. YD. MAY BE USED INSTEAD OF STUCCO NETTING.
- 4. THREE COAT STUCCO SYSTEM TO BE USED CONSISTING OF MANUFACTURER'S STANDARD PRODUCTS CONSISTING O SEPARATE BASE COAT, SCRATCH COAT AND FINISH COAT MATERIALS. FIBER-REINFORCED PORTLAND CEMENT PLASTER BASECOAT TO BE USED.
- INSTALLATION OF METAL SUPPORT SYSTEMS SHALL COMPLY WITH ASTM C 754.
- CONTRACTOR TO APPLY DIAMOND MESH AT ALL CORNERS AND OPENINGS.
- 7. CONTRACTOR TO PROVIDE EXPANSION AND CONTROL JOINTS WHERE NOTED ON PLANS AND AT ALL DISSIMILAR MATERIALS JUNCTIONS.
- 8 CONTRACTOR TO WOIST CLIRE EACH BASECOAT WITH CLEAN POTABLE WATER FOR 48-72 HOURS FOLLOWING INITIAL BASECOAT APPLICATION, ALLOW BROWN COAT TO AIR CURE FOR AN ADDITIONAL 7-10 DAYS BEFORE THE APPLICATION OF THE CEMENT BASED FINISH COATS.

CONCRETE MASONRY UNIT (CMU) NOTES:

- 1. CONCRETE MASONRY UNITS (CMU) PER ASTM C90.
 A PROVIDE CAUL WITH AN AREAGE UNIT COMPRESSIVE STRENGTH OF 1900 PSI.
 B. PROVIDE NOMINAL FACE DIMENSIONS OF 8"WAS"HATG". A ACTUAL DIMENSIONS OF
 7-5/8"x15-5/8"x15-5/8". ROVIDE SPECIAL SHAPES AS REQUIRED AT CORNERS, JAMIES, & BOND BEAMS
 C. PROVIDE TYPE I, MOISTUE CONTROLLED UNITS.
 D. PROVIDE NORMAL WEIGHT UNITS.

- A EXTERIOR WALLS ABOVE GRADE. TYPE S, 1/4 TO 1/2 PART HYDRATED LIME TO 1 PART PORTLAND CEMENT BY VOLUME.

 B. EXTERIOR WALLS AT OR BELOW ON GRADE. TYPE M, 1/4 PART HYDRATED LIME TO 1 PART PORTLAND CEMENT BY VOLUME.

 C. PORTLAND CEMENT. ASTM C150, TYPE I OR II.

 D. HYDRATED LIME: ASTM C207, TYPE S.
- GROUT PER ASTIM C476.
- PROVIDE REINFORCING STEEL AND GROUT SOLID THREE CORNER CELLS AT ALL CORNER LOCATIONS.
- ₽ 5. AT WALL OPENINSS & END OF WALL LOCATIONS, PROVIDE REINFORCING & GROUT SOLID LAST TWO CELLS, OR THE 1 CELLS ON EITHER SIDE OF OPENING.
- 2 7. ALL CAIU BLOCK TO HAVE EXTERIOR DECORATIVE FINISH TO MATCH BLOCK WALL OF ADJACENT BUILDING. CAIU BLOCK WALL PAINTED TO MATCH ADJACENT BUILDING. 6. GROUT SOLID ALL BOND BEAMS. RUN REINFORCING CONTINUOUS AROUND ALL CORNERS WITH APPROPRIATE SPLICES.

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GROUNDING NOTES

- 1. 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 (AS ADOPTED BY THE AHJ), THE STE-SPECIFIC (UL, LP), OR NFPA), LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TAKEN CHOUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY MOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- GROUNDING ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN 2. ALL GROUNDING ELECTRODE GES'S) SHALL BE BONDED TOG ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL—OF—POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 100 AND 81) FOR NEW GROUNDING ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUNDING ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- 4. METAL PACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH CREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BITS EQUIPMENT.

 - 5. EACH BTS CABINET SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS, 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- 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 WITH STAINLESS STEEL HARDWARE. THE BRIDGE AND THE TOWER GROUND BAR.
- 10. MISCELLAMEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NED. ALUMINUM CONDUCTOS OR COPPER CLAD STEEL CONDUCTORS SHALL NOT BE USE FOR GROUNDING CONNECTIONS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS BY BONDING ACROSS THE DISCONTINUITY WITH 6 ANG COPPER WIRE UL APPROYED GROUNDING TYPE CONDUIT CLAMPS
- 12. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METAL CONDUITS, METAL SUPPORT TOUR OF SUCH STANDINGS, MONAGEMENT OF ELONGS IN CONDUIT TO MET CODE REQUIREMENTS OR LOCAL CONDUITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METALLIC CONDUIT IS UNANIONABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

INSTALLATION NOTES ECTRICAL

- 뿙 WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF " AND TELCORDIA.
- SUBCONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
- all circuits shall be segregated and maintain minimum cable separattion as required by the Nec) telcordia. 3.
 - CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- 5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTORS AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROFIECTION, OR EQUAL), THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- 6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- 용 7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- 8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAAMCOID PLASTIC LABELS.
 - 9. ALL TIE WRAPS WHERE PERMITTED SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES. USE LOW PROFILES TIE WRAPS.
- 2,5 10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (1 AMC OR LARGER), BOOM, OIL RESISTANT THIN OR THIMN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° (WIET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OFFICIARD.
- 11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THIMN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE FATED FOR 90°C (MET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- 12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR 2 ANG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- AND 13. POWER WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (12 AWG OR LAGER), 600V OIL RESISTANT THHN OR THANA-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET SPRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- 14. 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 (90'C IF ANALLABLE).
- 15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH MENA, UL, ANSI/IEEE, AND NEC.
- 16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- RIGID 17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMACE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EAT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS. 19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE. GRADE.
- 20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID 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.
- 21. LIQUID-TIGHT FLEXBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- 22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
 - 23. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, ANSI/IEEE, AND NEC.
- 24. CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN NUMBED; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEIMA 1 (OR BETTER) INDOORS, OR NEIMA 3R (OR DOWNWARD; SHALL B BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR XY-COATED SHEET STEEL, MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R BETTER) OUTDOORS. 26. EQ EPOXY-8
- 27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
 - 29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS. IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

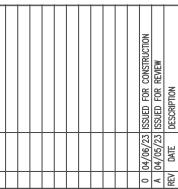


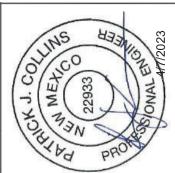
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SITE NAME: NM4 QUEMAZON

 $280~\mathrm{N}$ MESA RD LOS ALAMOS, NM 87544 ADDRESS:

SITE TYPE: WATER TANK

SHEET NUMBER:

SITE WORK, GROUNDING,

GENERAL NOTES:

SHEET TITLE

STEEL & ELECTRICAL

GN1

DIVISION 01000 — GENERAL REQUIREMENTS

PART 1 - GENERAL

- 1. ALL WORK TO BE PERFORMED BY CERTIFIED NETWORK INSTALLATION PERSONNEL. MINIMUM OF TWO MEMBERS PER CREW.
- 2. REFER TO VERIZON WIRELESS STANDARD CONSTRUCTION SPECIFICATIONS. IN CASE OF A CONFLICT, VERIZON WIRELESS STANDARD CONSTRUCTION SPECIFICATIONS (LATEST EDITION) SHALL BE FOLLOWED.
 - . A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT TO CERTIFY THE THE EXISTING/PROPOSED COMMUNICATION STRUCTURE AND ITS COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT THE EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND APPURTENANCES. PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT OR MODIFICATION OF THE EXISTING STRUCTURE, THE OWNER'S AGENT SHALL FURNISH A CERTIFICATION LETTER SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

PART 2 - GENERAL NOTES

- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILY COMPANY SPECIFICATIONS, AND LOCAL AND STATE UNRISIOTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK, THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- 2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS ONE RRORS IN THE DAMINIOS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) VERIZON WIRELESS'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK.
- 4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- 5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PEPCPRINING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS.
- 6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.
- . THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 8. THE CONTRACTOR SHALL MAINTAIN A FULL SET OF CONSTRUCTION DOCUMENTS AT THE STEE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM'S OR CLARIFICATIONS AVAILABLE FOR THE USE OF ALL PERSONNEL INVOLVED WITH THE PROJECT.

 9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- 1. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SITE CONDITIONS DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- 12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE ALL UNNECESSARY MATERIAL.

PART 2 - GENERAL NOTES (CONTINUED)

- 13. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE STATE BASIC BUILDING CODE, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. ALL EXISTING ACTIVE SEWER, WATER, CAS, ELECTRIC, AND OTHER UTLINES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER.
- 14. THE CONTRACTOR SHALL NOTIFY VERIZON WIRELESS'S REPRESENTATIVE WHERE A CONFLICT OCCURE ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED BY VERIZON WIRELESS'S REPRESENTATIVE.
- 15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- 16. THE CONTRACTOR SHALL NOTIFY THE RF ENGINEER FOR ANTENNA AZIMUTH VERIFICATION (DURING ANTENNA INSTALLATION) PRIOR TO CONDUCTING SITE SWEEPING.
 - THE GENERAL CONTRACTOR SHALL IN ALL INSTANCES CONFORM TO THE SPECIFICATIONS ISSUED BY VERIZON WIRELESS.
- 18. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS OR RISERS THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT STRUCTURAL ENGINEER'S APPROVAL. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE PACKED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE STRUCTURE. FILL FOR FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE FIRE AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.

WOOD

- 1. ALL MATERIALS INCLUDING PLYWOOD SHALL BE AS SPECIFIED ON THESE PLANS.
- SPECIAL CONSTRUCTION ANTENNA INSTALLATION

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. ANTENNAS AND FIBER CABLES SHALL BE AS SPECIFIED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND PROPERTY. STRICT ADHERENCE TO OSHA STANDARDS IS MANDATED.
- B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON WIRELESS SPECIFICATIONS.
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- D. INSTALL FIBER CABLES AND TERMINATION'S BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL FIBER CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.

METALS

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. THE WORK CONSISTS OF THE FABRICATION AND INSTALLATION OF ALL MATERIALS TO BE FURNISHED, AND WITHOUT LIMITING THE GENERALITY THEREOF, INCLUDISE ALL EQUIPMENT, LABOR AND SERVICES REQUIRED FOR ALL STRUCTURAL STEEL WORK, INCLUDING ALL ITEMS INCIDENTAL THERETO AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS. INCLUDING
- 1. STEEL FRAMING INCLUDING BEAMS, ANGLES, CHANNELS AND PLATES
- 2. WELDING AND BOLTING OF ATTACHMENTS.

1.02 REFERENCE STANDARDS

- A. THE WORK SHALL CONFORM TO THE CODES AND STANDARDS OF THE FOLLOWING AGENCIES AS FURTHER CITED HEREIN:
- 1. ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS, AS PUBLISHED IN "COMPILATION OF ASTM STANDARDS IN BUILDING CODES"
- 2. AWS: AMERICAN WELDING SOCIETY INC., AS PUBLISHED IN "STANDARD D1.1-2006, STRUCTURAL WELDING CODE".
- 3. AISC: AMERICAN INSTITUTE FOR STEEL CONSTRUCTION, AS PUBLISHED IN "CODE FOR STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIOGES"; "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

PART 2 - PRODUCTS

2.01 MATERIALS

A. STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A36 AND A50 FOR STRUCTURAL STEEL. 2.02 WELDING

- .. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS. CERTIFICATION DOCUMENTS SHALL BE MADE AVAILABLE FOR ENGINEER'S AND/OR OWNER'S REVIEW IF REQUESTED.
- B. WELDING ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING SHALL CONFORM TO ASTM A-233, E70 SERIES. BARE ELECTRODES AND GRANULAR FLUX USED IN THE SUBMERGED ARC PROCESS SHALL CONFORM TO AISC SPECIFICATIONS.
- C. FIELD WELDING SHALL BE DONE AS PER AWSD1.1 REQUIREMENTS VISUAL INSPECTION IS ACCEPTABLE WHEN FILLET SIZES ARE NOT SHOWN.
- D. STUD WELDING SHALL BE ACCOMPLISHED BY CAPACITOR DISCHARGE (CD) WELDING TECHNIQUE USING MIDWEST FASTENERS, INC. CD100 CAPACITOR DISCHARGE STUD WELDER, NELSON STUD WELDER OR EQUAL.
- 2.2 PROVIDE STUD FASTENERS OF MATERIALS AND SIZES SHOWN ON DRAWINGS OR AS RECOMMENDED BY THE MANUFACTURER FOR STRUCTURAL LOADINGS REQUIRED.
- 2.3 FOLLOW MANUFACTURES SPECIFICATIONS AND INSTRUCTIONS TO PROPERLY SELECT AND INSTALL STUD WELDS.

2.03 BOLTING

- A. BOLTS SHALL BE 3/4" ø (MINIMUM) CONFORMING TO ASTM A325, HOT DIP GALVANIZED OR ASTM A153. NUTS SHALL BE HEAVY HEX TYPE.
- B. ALL BOLTS SHALL BE INSTALLED IN SLIP CRITICAL CONNECTIONS CONFORMING TO AIS USING THE 1/4" TURN METHOD.

2.04 FABRICATION

A. FABRICATION OF STEEL SHALL CONFORM TO THE AISC AND AWS STANDARDS AN CODES.

2.05 FINISH

- A. ALL STRUCTURAL STEEL SHALL BE HOT-DIP GALYANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
- 2.06 PROTECTION

 A. UPON COMPLETION OF ERECTION INSPECT ALL GALVANIZED STEEL AND PAINT ANY FIELD CUTS, WELDS, OR GALVANIZED BREAKS WITH ZINC BASED PAINT. COLOR TO MATCH THE GALVANIZING PROCESS.

PART 3 - EXECUTION

3.01 ERECTION OF STEEL

- A. PROVIDE ALL ERECTION EQUIPMENT, BRACING, PLANKING, FIELD BOLTS, NUTS, WASHERS, DRIFT PINS, AND SIMILAR MATERIALS WHICH DO NOT FORM A PART OF THE COMPETED CONSTRUCTION BUT ARE NECESSARY FOR ITS PROPER ERECTION.
- B. ERECT AND ANCHOR ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC REFERENCE STANDARDS. ALL WORK SHALL BE ACCURATELY SET TO ESTABLISHED LINES AND ELEVATIONS AND RIGIDLY FASTENED IN PLACE WITH SUITABLE ATTACHMENTS TO THE CONSTRUCTION OF THE BULLDING.
- C. TEMPORARY BRACING, GUYING AND SUPPORT SHALL BE PROVIDED TO KEEP THE STRUCTURE SAFE AND ALIGNED AT ALL TIMES DURING CONSTRUCTION, AND TEMPORARY LOADS AND STAY WITHIN SAFE CAPACITY OF ALL BUILDING COMPONENTS.

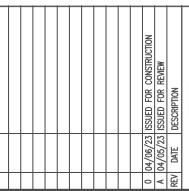


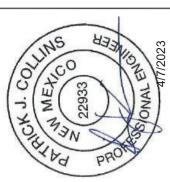
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ADDRESS: 280 N MESA RD LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

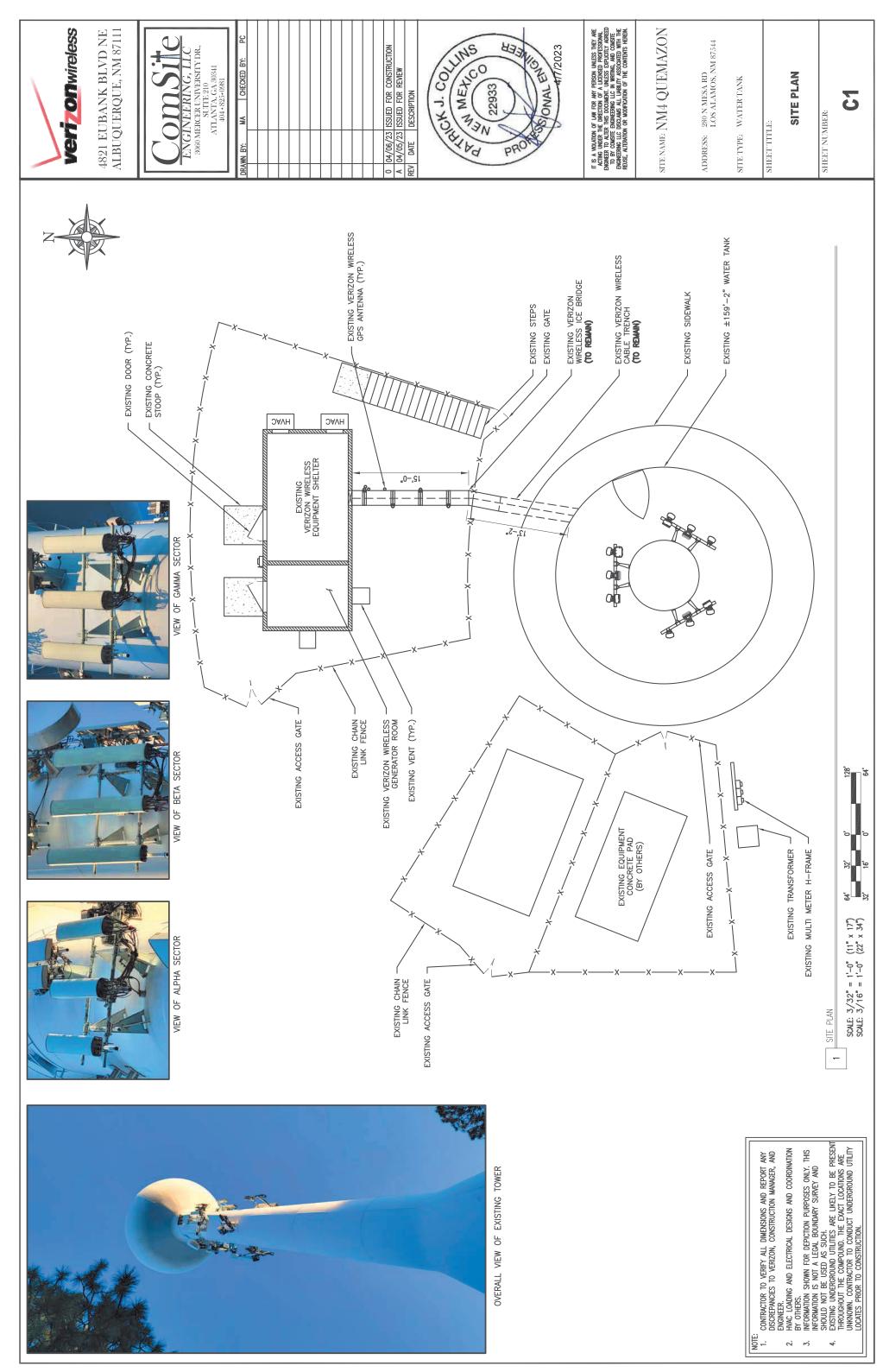
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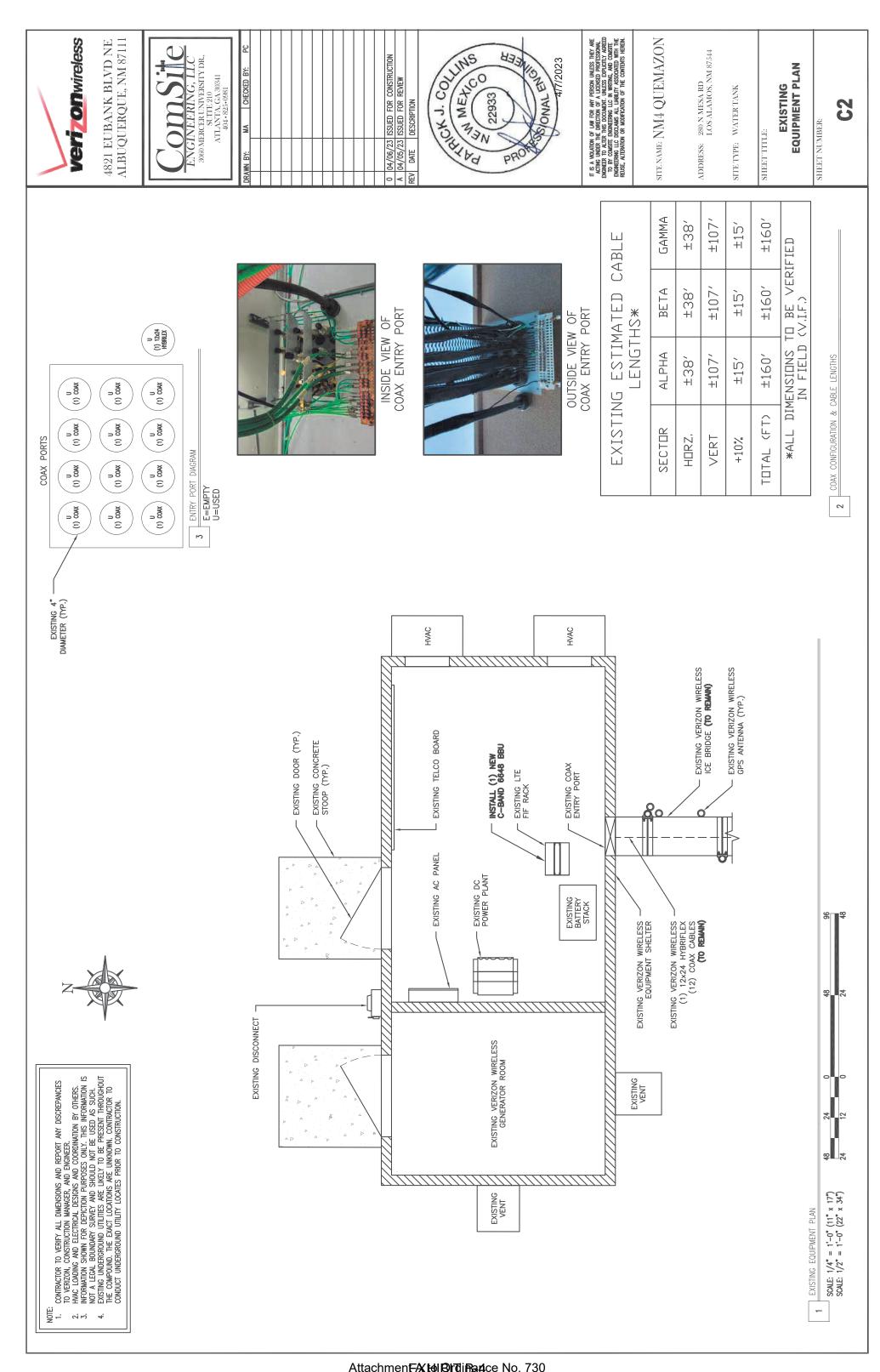
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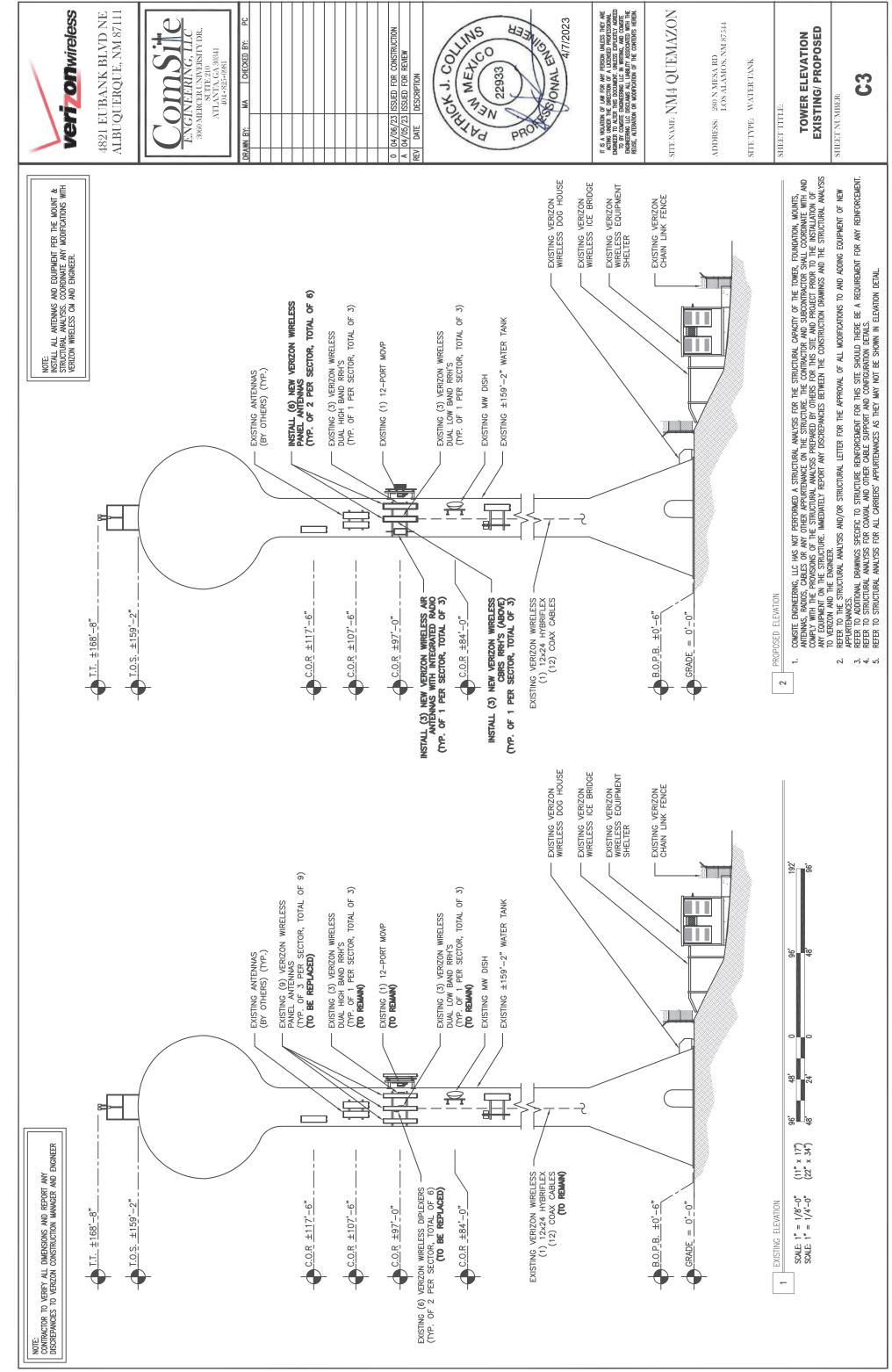
TOWERS

GN2

WETTOTWIRESS 4821 EUBANK BLYD NE ALBUQUERQUE, NM 87111 COMMERCERING, LLC 8000 MERCERING, LLC 8000 MERCERING 1000 M
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and and a second point of the first bear and
SYMBOLS RELEVATION C.O.R. = 1.1.1. = 1.1.0.S. = 1.0.S.







SSIONAL ENGINE IT IS A WOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTINE UNDER THE DEDICATION OF A LLOSSED PROFESSIONAL BURNERS TO ALTER THE DOCUMENT, UNLESS EPILICITY ARREDS TO BY COASITE EDAMERICHE LLE IN WINNER, AND COLKEITE BURNERSHIE LLD DSCLAMES ALL UNGLITY ASSOCIATION WITH THE REJSE, ALTERATION OF PURCONNETS HERBIN ALBUQUERQUE, NM 87111 **Verion** Wireless 4821 EUBANK BLVD NE SITE NAME: NM4 QUEMAZON AND MENCHALLANDER OF THE PRINCE OF THE PRINC 280 N MESA RD LOS ALAMOS, NM 87544 04/06/23 ISSUED FOR CONSTRUCTION 04/05/23 ISSUED FOR REVIEW **EXISTING / PROPOSED** 3060 MERCER UNIVERSITY DR., SUITE 210 NEW MER ATLANTA, GA 30341 **ANTENNA PLAN** SITE TYPE: WATER TANK 22933 **C4** DESCRIPTION SHEET NUMBER: MA SHEET TITLE: ADDRESS: PRO DATE DRAWN BY: COMSITE BIGINEERING, LLC HAS NOT PERFORMED A STRUCTURAL ANALYSIS FOR THE STRUCTURAL CAPACITY OF THE TOWER, FOUNDATION, MOUNTS, ANTENNAS, RADIOS, CABLES OR ANY OTHER APPURTENANCE ON THE STRUCTURE. THE CONTRACTOR AND SUBCONTRACTOR SHALL COORDINATE WITH AND COMPLY WITH THE PROVISIONS OF THE STRUCTURAL ANALYSIS PREPARED BY OTHERS FOR THIS SITE AND PROJECT PRIOR TO THE INSTALLATION OF ANY EQUIPMENT ON THE STRUCTURE. IMMEDIATELY REFORM THE CONSTRUCTUR DRAWINGS AND/OR STRUCTURAL LETTER FOR THE APPROVAL OF ALL MODIFICATIONS TO AND ADDING EQUIPMENT OF NEW APPURTENANCES. REFER TO AND ADDING EQUIPMENT OF NEW APPURTENANCES. REFER TO STRUCTURAL ANALYSIS FOR COAXIAL AND OTHER CABLE SUPPORT AND CONFIGURATION DEFAILS.

REFER TO STRUCTURAL ANALYSIS FOR CAXIAL AND OTHER CABLE SUPPORT AND CONFIGURATION DEFAILS. INSTALL (3) NEW VERIZON WIRELESS AIR ANTENNAS WITH INTEGRATED RADIO (TYP. OF 1 PER SECTOR, TOTAL OF 3) EXISTING (3) VERIZON WIRELESS DUAL LOW BAND RRH'S (TYP. OF 1 PER SECTOR, TOTAL OF 3) (42 FTA , 120°) EXISTING ±159'-2" WATER TANK EXISTING SECTOR MOUNT (TYP. OF 1 PER SECTOR, TOTAL OF 3) EXISTING (1) 12-PORT MOVP NOTE: INSTALL ALL ANTENNAS AND EQUIPMENT PER THE MOUNT & STRUCTURAL ANALYSIS. COORDINATE ANY MODIFICATIONS WITH VERIZON WIRELESS CM AND ENGINEER. (du) 0-,8 E-AH91A (°OT SA) ALPHA SECTOR S-AH9JA (*Of SA) 1-AHQJA (*01 SA) INSTALL (6) NEW VERIZON WIRELESS PANEL ANTENNAS (TYP. OF 2 PER SECTOR, TOTAL OF 6) EXISTING (3) VERIZON WIRELESS DUAL HIGH BAND RRH'S (TYP. OF 1 PER SECTOR, TOTAL OF 3) INSTALL (3) NEW VERIZON WIRELESS CBRS RRH'S (ABOVE) (TYP. OF 1 PER SECTOR, TOTAL OF 3) 15.0" (TYP.) 7.4° GAMMA-1 (AZ 260°) GAMMA-2 (AZ 260°) PROPOSED ANTENNA PLAN 15.9" (TYP.) 8.1° GAMMA SECTOR 260' AZIMUTH GAMMA-3 (AZ 260°) 25.4.73 7 3 - EXISTING (3) VERIZON WIRELESS
DUAL LOW BAND RRH'S
(TYP. OF 1 PER SECTOR, TOTAL OF 3) EXISTING ±159'-2" WATER TANK R EXISTING SECTOR MOUNT (TYP. 1 PER SECTOR, TOTAL OF 3) (TO REMAIN) MOVP EXISTING (1) 12-PORT (TO REMAIN) THESE ELEMENTS ARE: THE ANTENNA MOUNT FACE WIDTH, ANTENNA WIDTH, DISTANCE BETWEEN ANTENNAS (EDGE-TO-EDGE) & DETAIL (all) .0-8 (.01 ZA) 山 ALPHA SECTOR ë (.01 ZA) S-AHQJA ELEMENTS OF THE ORIENTATION DIAGRAM SHOWN ABOVE ARE SCALED (.01 SA) r-AH91A SCALE: $1/4" = 1'-0" (11" \times 17")$ SCALE: $1/8" = 1'-0" (22" \times 34")$ CONTRACTOR TO VERIFY THE FINAL RF CONFIGURATION MATCHES THESE DRAWINGS PRIOR TO THE REMOVAL AND INSTALLATION OF ANY EQUIPMENT, CONTRACTOR TO REPORT ALL DISCREPANCIES TO VERIZON CONSTRUCTION MANAGER AND ENGINEER. EXISTING (9) VERIZON WIRELESS PANEL ANTENNAS OF 3 PER SECTOR, TOTAL OF 9) (TO BE REPLACED) EXISTING (6) VERIZON WIRELESS DIPLEXERS (TYP. OF 2 PER SECTOR, TOTAL OF 6) (TO BE REMOVED) EXISTING (3) VERIZON WIRELESS DUAL HIGH BAND RRH'S (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO REMAN) GAMMA-1 (AZ 260°) GAMMA-2 (AZ 260°) EXISTING ANTENNA PLAN GAMMA-3 (AZ 260°)

(TYP.

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ALBUQUERQUE, NM 87111

COMPERING, LLC

8060 NERCHE UNIVERITY DR.

SULTE 210

ALANTA, GA 80341

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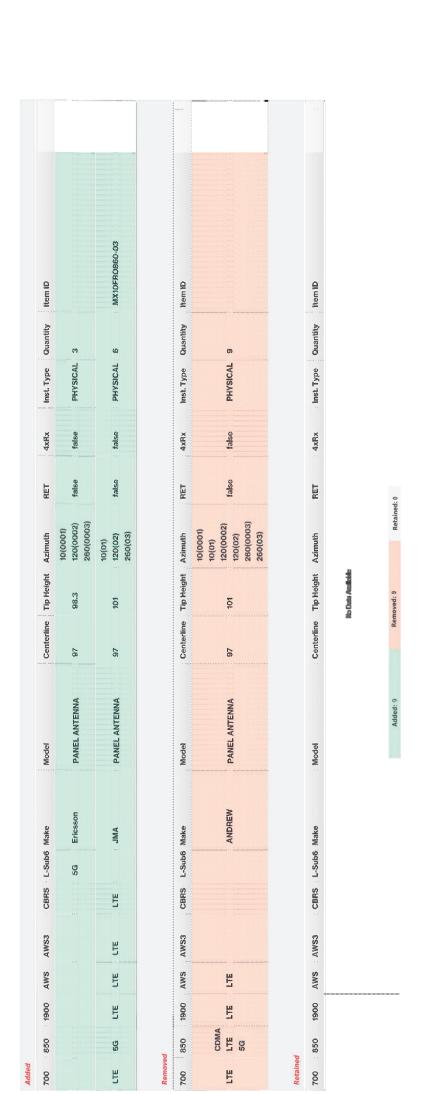
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ADDRESS: 280 N MESA RD

ADDRESS: 280 N MESA RD

LOS ALAMOS, NAM 87544



NOTE: CONTRACTOR TO REFER TO CM FOR FINAL RF CONFIGURATION AND ANTENNA AND RADIO PLUMBING

									сфиртел энптия)				
Added													
Equipment Type Location	Location	700	850	1900	AWS	AWS3	CBRS	CBRS L-Sub6 Make	Model	Cable Length Cable Siz	Cable Length: Cable Size Install Type Quantity Item ID	Item ID	
RRU	Tower						35	Ericsson	4408 B48 (w/out Antenna)		PHYSICAL 3	. KRC161746/1	
Removed													
Equipment Type Location	Location	200	850	850 1900		AWS AWS3	CBRS	CBRS L-Sub6 Make	Model	Cable Length Cable Siz	Cable Length Cable Size Install Type Quantity	Item ID	
									Ne data avallable.				
Retained													
Equipment Type Location	Location	700	850	1900	1900 AWS AWS3	AWS3	CBRS	L-Sub6 Make	Model	Cable Length Cable Siz	Cable Length Cable Size Install Type: Quantity	Item ID	
Hybrid Cable	Тошет						_	Commiscope	12x24 Hybriffex		PHYSICAL 1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Country Collins	Tomas			nane.			w w e	Commecope	AVAS SQ		PHYSICAL 6		HIIII
Cuaxial Cables	Towner							Commiscope	AVAZ-60	,	PHYSICAL 6		
188	Tower	TE TE	28					Ericson	2		PHYSICAL 3		
25	Tower			Ë	Ë		_	Erlessen	8543		PHYSICAL 3		
	Tomer							Reports	CNPLE	2 32 A. 23	PHYSICAL 1		
OVP Blox	Sheller							Raycap	CVP-12		PHYSICAL 1		

PROPOSED NON ANTENNA EQUIPMENT

RF DATA SHEET & COAX ANTENNA DIAGRAM

SHEET NUMBER:

CS

SITE TYPE: WATER TANK

1 PROPOSED ANTENNA CONFIGURATION

