

**LEASE AGREEMENT
BETWEEN
THE CITY OF SANTA FE AND VERIZON WIRELESS (VAW) LLC**

This LEASE AGREEMENT (Lease Agreement) is entered into this 10th day of October, 2018, by and between the CITY OF SANTA FE, NEW MEXICO, a municipal corporation and a political subdivision of the State of New Mexico (Lessor) and VERIZON WIRELESS (VAW) LLC d/b/a VERIZON WIRELESS, a Delaware limited liability company, (Lessee) (collectively, the Parties and each individually a Party).

WITNESSETH:

In consideration of the Lessee's promises herein, Lessor hereby gives the Lessee a Lease Agreement to enter on and make use of the property of the Lessor as follows:

1. PREMISES

A. Lessor leases to Lessee and Lessee leases from Lessor a certain two hundred and four (204) square-foot parcel of land and eight (8) vertical feet of air space above the existing surface of the parcel of land, and designated space on an adjacent ball field light pole (the City Light Pole) (collectively, the Premises), as shown on Exhibit A attached hereto and incorporated herein. The Premises is located within a certain Lessor-owned parcel of land known as 200 Murales Road located within the municipal boundaries of the City of Santa Fe, in the County of Santa Fe, State of New Mexico (the Property), whereon Lessor owns and maintains the Property for municipal recreational purposes (the Primary Use).

B. Lessee acknowledges that the Premises is necessary to serve the Primary Use and, that to the extent the Premises or any portion thereof is used by Lessee, such use is on a secondary basis only. Notwithstanding any other provision of this Lease Agreement, the operation of Lessee's Communications Facilities shall not disturb or interfere in any material respect with the Lessor's Primary Use of the Property.

In the event that Lessor requires the Premises for its own use, Lessor may require Lessee to relocate all or a part of its Communication Facilities to a mutually acceptable location on the Property. In such event Lessor shall notify Lessee in writing at least one hundred eighty (180) days prior to the date that Lessor requires use of the Premises and Lessee shall complete the relocation of its Communication Facilities within this period (the Relocation Period). If the Parties are unable to agree on a mutually acceptable relocation site during the first sixty (60) days of the Relocation Period, then either Party may terminate this Lease Agreement in accordance with Section 16.D of this Lease Agreement.

2. EFFECTIVE DATE

This Lease Agreement shall become effective November 1, 2018 (the Effective Date).

3. PERMITTED USE

A. Permitted Use. At Lessee's sole cost and expense, Lessee may use the Premises for the placement of equipment related to the transmission and reception of wireless communications and uses appurtenant thereto (the Permitted Use). In furtherance of the Permitted Use, Lessee may construct, install, maintain, repair, and operate telecommunications equipment, cabinets, wireless communications antennas, cables, and accessories (each, a Communication Facility; collectively, Communications Facilities) on the Premises as shown on Exhibit A, and perform such other acts as are reasonably necessary to carry out the Permitted Use. The Permitted Use shall also include the right to make any like-for-like replacements and

repairs to the Communications Facilities without Lessor's consent but subject to advanced written notice to Lessor. However, in event of emergency, Lessee may proceed with such like-for-like replacements and repairs after making reasonable efforts to notify Lessor.

Any modifications to the Communications Facilities, other than like-for-like replacements and repairs, shall require the Lessor's prior written consent. For any such modifications, if Lessor fails to provide written notice of either consent or denial of consent within thirty (30) days' of Lessor's receipt of such written request, the request for the modifications shall be deemed granted but shall still require prior written notice to Lessor.

B. Construction and Installation of Communications Facilities. Lessee shall notify Lessor at least twenty (20) days prior to Lessee's intended commencement of the initial installation and construction of Lessee's Communications Facilities. Following Lessor's receipt of such notification, the Parties shall schedule and conduct a meeting in person (the Pre-Construction Meeting) to coordinate any and all site access, utilities, construction, or other issues related to the installation and construction of Lessee's Communications Facilities, including Lessee's proposed procedures to minimize disturbance to, and maximize protection of, the Property. The Pre-Construction Meeting shall be conducted at the Property no less than ten (10) days prior to the commencement of installation and construction. Lessee shall require that its contractor(s) attend the Pre-Construction Meeting. In no case shall initial installation and construction of Lessee's Communications Facilities commence until all installation and construction issues have been addressed to Lessor's satisfaction, including Lessor's approval of Lessee's installation and construction schedule.

C. Existing Telecommunication Equipment. Lessee has installed temporary telecommunication equipment on the Property prior to the Effective Date pursuant to a License Agreement between the Parties dated August 17, 2018 (City Item# 18-0934). Lessee may continue to maintain and utilize, at Lessee's sole cost and expense, any existing, Lessee-owned temporary telecommunication equipment located on the Property on the Effective Date during the initial installation and construction of Lessee's Communication Facility. Lessee shall, within fourteen (14) days of Lessee's Communication Facility being placed into service, remove all such temporary telecommunication equipment from the Property and return the Property to the condition that existed prior to the installation of the temporary telecommunication equipment.

D. City Light Pole. The Parties acknowledge and agree that in order to properly support Lessee's Communication Facilities, the existing City Light Pole and associated city-owned lighting fixtures atop the City Light Pole must be removed and replaced as shown on **Exhibit A** and, that upon installation and acceptance by Lessor, the replacement light pole and replacement fixtures shall become the personal property of Lessor.

4. ACCESS AND UTILITIES TO THE PREMISES

A. Access. Lessor grants to Lessee nonexclusive vehicular and pedestrian access for ingress and egress over Lessor's land, including, without limitation, the Property, to the Premises from Murales Road (the Access Route), as more particularly described and shown on **Exhibit A**. Lessor, at no expense to Lessee, may from time to time change the location of the Access Route upon ninety (90) days prior written notice to Lessee; provided, such relocation shall not interfere with Lessee's ability to access the Communications Facility with motor vehicles, including trucks.

B. Utilities. Lessor grants Lessee the right to install utilities to serve the Premises on and under the Property (the Utility Route), as more particularly described and shown on **Exhibit A**. Lessor may reasonably change the location of the Utility Route upon six (6) months prior written

notice to Lessee of such new Utility Route and the costs of relocating Lessee's utility shall be borne by Lessee.

5. TERM

The initial term of this Lease Agreement is five (5) years from the Effective Date (the Initial Term). Thereafter, this Lease Agreement shall automatically renew for up to three (3) additional five (5) year renewal terms (each, a Renewal Term), unless Lessee pursuant to Section 21 below delivers to Lessor written notice of Lessee's intent not to automatically renew at least ninety (90) days before the end of the then current term. The Initial Term and any Renewal Terms are hereinafter referred to collectively as, the "Term".

6. RENT

A. Rent. Lessee shall pay Lessor a monthly rental fee of Three Thousand Two Hundred Dollars (\$3,200) on or before the first day of each month (Rent). Rent shall commence on the Effective Date and shall be paid into Lessor's bank account via electronic funds transfer as directed by Lessor from time to time, provided that the Parties acknowledge and agree that the initial Rent payment may not be sent until sixty (60) days after the Effective Date.

B. Late Payment. The Parties agree that should Lessee fail to pay Rent on its due date or within three (3) days thereafter Lessor will suffer damages that are difficult to calculate. Therefore, the Parties agree that if Lessee fails to timely pay Rent as described herein, Lessee shall also pay Lessor in addition to the Rent due, liquidated damages equal to fifteen percent (15%) of the Rent due for the then current rental period. All payments received shall apply first to any interest owed and then to any principal amount owed.

C. Rent Escalation. Upon each anniversary of the Effective Date, the Rent or Holdover Rent (as defined in Section 9 below, if applicable) shall automatically increase by two and one-half percent (2.5%) over the Rent or Holdover Rent in effect during the prior twelve-month period.

D. Lease Initiation Fee. Lessee shall pay Lessor a separate one-time fee of Five Thousand Dollars (\$5,000) as additional compensation for Lessor's assent to enter into this Lease Agreement (the Lease Initiation Fee). The Lease Initiation Fee is not Rent, nor any offset to Rent or any other monies that may be owed by Lessor to Lessee, and shall be fully earned by Lessor on the Effective Date. The Lease Initiation Fee is non-refundable in whole or in part and shall be tendered to Lessor within sixty (60) days of the Effective Date.

7. MAINTENANCE

A. Lessee shall maintain its Communication Facilities so that their external appearance conforms to that which is shown in Exhibit A, subject to normal wear and tear and damage from the elements, and subject to Lessee's rights to repair and replace the Communications Facilities pursuant to Section 3.A above.

B. Lessee shall at all times keep and maintain the Premises in good condition, subject to normal wear and tear and damage from the elements.

C. Lessee shall, at its sole cost and expense, promptly repair all damage to the Premises, the Property, the Access Route and the Utility Route, to the extent caused by Lessee's: (i) construction, operation, maintenance, or other use of the Lessee's Communication Facilities; or (ii) negligence or willful misconduct. Lessor shall endeavor to promptly notify Lessee of any such damage after it becomes aware of the same.

D. Whenever Lessee has a duty hereunder to repair, Lessee shall restore the Premises, the Property, the Access Route and the Utility Route, to at least substantially the same condition

as existed before such damage occurred, excepting normal wear and tear, or casualty not caused by or attributable to Lessee or its agents, contractors and subcontractors, and other losses beyond Lessee's reasonable control.

E. Lessee shall bear all costs and expenses associated with repairs required herein to be performed or caused to be performed by Lessee.

F. Lessee further covenants that during the Term of this Lease Agreement it will keep the City Light Pole in good repair as necessary to support Lessee's Communications Facilities and as required by all federal, state and local laws.

8. UTILITIES

Lessee shall bear sole and full responsibility for all utilities related to its use of the Premises. Lessee, at its sole cost and expense, shall secure, install and maintain separately metered utilities from any public utility company for its uses at the Premises. Lessor grants Lessee's public utility companies the right to install below-ground utility lines along the Utility Route as shown on Exhibit A. Lessee shall exercise its rights hereunder so as not to disturb or disrupt any utilities installed to serve any other third party authorized by the City, whether by Lease Agreement or license or otherwise, rightfully on the Property as of the Effective Date of this Lease Agreement.

9. HOLDOVER & HOLDOVER RENT

A. Subject to Section 10.B, Lessee's right to possess the Premises, and to use the Access Route and the Utility Route, shall immediately terminate at the end of the final Renewal Term as described in Section 5 or upon termination of this Lease Agreement, unless the Parties are then currently negotiating in good faith to enter into a new Lease Agreement for the Premises.

B. If Lessee fails to remove its Communications Facilities and restore the Property and Premises to Lessor in accordance with Section 10.B, then this Lease Agreement shall continue in full force and effect (the Holdover Period) except that: (i) the Term shall then be month-to-month; and (ii) the Rent shall be automatically increased to one hundred fifty percent (150%) of the Rent due for the month immediately preceding such expiration or earlier termination (the Holdover Rent).

10. REMOVAL AND RESTORATION

A. All portions of the Lessee's Communication Facilities brought onto the Premises and the Property by Lessee constitute Lessee's personal property and Lessee may, in Lessee's sole discretion, remove any part of its Communications Facilities at any time during the Term or the removal period set forth herein in any way that does not damage the Premises, the Property, the Access Route or the Utility Route.

B. Notwithstanding anything in this Lease Agreement to the contrary, within ninety (90) days of the expiration or earlier termination of this Lease Agreement, Lessee shall remove all of its above-ground improvements, with the exception of the City Light Pole and other items of Lessor's personal property, and will, to the reasonable satisfaction of Lessor, restore the Premises to its condition as of the Effective Date of this Lease Agreement, excepting normal wear and tear or casualty damage not caused by or attributable to Lessee, its predecessors, or their agents, contractors or subcontractors. Lessee's restoration shall include the removal of all footings, foundations and concrete installed at the Premises to a depth of two (2) feet below grade.

C. All costs and expenses for the removal and restoration to be performed by Lessee under this Section shall be borne by Lessee, and Lessee shall hold Lessor harmless from any

portion thereof. Should Lessee fail to complete the removal and restoration within the required time period, Lessor may complete such work and charge Lessee the reasonable cost thereof.

D. Notwithstanding the expiration or earlier termination of this Lease Agreement, Lessee shall continue to timely pay the then-current Rent or Holdover Rent (as applicable) until Lessee has completed all requirements of this Section 10 to the reasonable satisfaction of the Lessor.

11. INTERFERENCE

A. Lessee shall not cause harmful material interference with Lessor's equipment at the Property or with any of Lessor's radio communications where such communications are operated within their respective frequencies, in accordance with all applicable laws and regulations. Further, Lessee shall not cause harmful interference with other lessee's radio communications that existing as of the date of Lessee's installation of its equipment where such lessee communications are operated within their respective frequencies, in accordance with all applicable laws and regulations. In the event that any of Lessee's equipment causes such interference in violation of this Section 11.A, and after Lessor has notified Lessee in writing of such interference, Lessee will take all commercially reasonable steps necessary to correct and eliminate the interference, including but not limited to, at Lessee's option, powering down such equipment and later powering up such equipment for intermittent testing. In no event will Lessor be entitled to terminate this Lease Agreement during the period that Lessee is making a continuing good faith effort to remedy the interference. If Lessee, after having taken all commercially reasonable steps necessary to correct and eliminate the interference, is unable to permanently correct and eliminate the interference to the Lessor's reasonable satisfaction within ten (10) days after Lessee's receipt of written notice of such interference, Lessor may in its sole discretion terminate this Lease Agreement by delivering written notice of termination to Lessee.

B. Lessor will not use, nor will Lessor permit its employees, other lessees or licensees at the Property, or others under Lessor's control, to use any portion of the Property in a manner that causes harmful material interference to the Lessee's Communication Facilities, or which materially interferes with the rights of Lessee under this Lease Agreement. Lessor will use its reasonable efforts to cause such interference to cease within twenty-four (24) hours after receipt of written notice of such interference from Lessee. If Lessor is unable to eliminate such interference then Lessee may terminate this Lease Agreement or exercise its rights in Section 11.C below.

C. The Parties acknowledge that there is no adequate remedy at law for noncompliance with the provisions of this Section 11 and therefore, either Party shall have the right, in addition to any other rights that it may have under the law or this Lease Agreement, to equitable remedies, including but not limited to injunctive relief and specific performance, in enforcing their rights under this Section 11.

12. INSURANCE

A. Lessee shall, and shall require each of Lessee's contractors and subcontractors who physically enter the Property to obtain and maintain substantially the same coverage as required of Lessee, at their sole cost and expense, procure and continue to maintain in force during the Term of this Lease Agreement and any Holdover Period with limits of coverage in the amount in which the City could be held liable under the New Mexico Tort Claims Act for each person injured and for each accident resulting in damage to property:

(i) Workers' Compensation Insurance (at statutory limits); and

(ii) Employer's Liability Insurance with minimum limits of One Million Dollars and No Cents (\$1,000,000.00) each accident/disease/policy limit; and

(iii) Commercial General Liability Insurance (including completed operations and contractual liability) on an occurrence basis in an amount of Two Million Dollars and No Cents (\$2,000,000.00) per occurrence for bodily injury and property damage; and

(iv) "All-risk" property insurance insuring the Premises and its appurtenant personal property for full replacement costs.

B. All policies shall be written by an insurer with an A. M. Best rating of not less than A- (Excellent), Financial Size Category VII, and must be authorized to do business within the State of New Mexico. The general liability insurance coverage shall include the Lessor, Lessor's employees, volunteers, officers, and elected and appointed officials (collectively the Lessor's Releases) as additional insureds as their interest may appear under this Agreement. Lessee shall provide a certificate of insurance as written documentation of all required insurance coverages upon the Effective Date of this Lease Agreement and thereafter within fifteen (15) days of Lessor's written request for such documentation. Upon receipt of notice from its insurer(s) Lessee will provide Lessor thirty (30) days prior written notice of any cancellation.

C. Waiver of Subrogation. Lessee hereby grants to Lessor a waiver of any right to subrogation which any insurer of Lessee may acquire against Lessor by virtue of the payment of any loss under such insurance except for any workers' compensation claims. Lessee agrees to obtain any endorsements that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether Lessor has received a waiver of subrogation endorsement from the insurer.

13. TAXES

A. Lessee is solely responsible for and shall timely and fully pay any taxes, assessments, or charges that are assessed, levied, or otherwise imposed by law on the Lessee, on property owned by the Lessee, or on the Lessee's interest in the Premises, the Property, the Access Route or the Utility Route. If the Lessor is subject to state or local gross receipts tax on the Rent, then the Lessee shall be responsible for such tax if the Lessor promptly invoices the Lessee for reimbursing the amount of such tax actually payable by Lessor; provided, however, that the Lessor shall not invoice the Lessee for such tax if the Lessee has provided the Lessor with an exemption certificate or other evidence, reasonably acceptable to the Lessor, that the Rent is not subject to such tax.

B. Lessor hereby notifies Lessee that the interest created by this Lease Agreement may be subject to property taxation and Lessee may be subject to the payment of a property/possessory interest tax levied on such interest. Lessee shall be solely responsible for the timely payment of such taxes, if any, and shall defend, indemnify and hold Lessor harmless from and against any and all claims or actions for payment (or nonpayment) of such taxes.

C. Notwithstanding this section, Lessee shall not have the obligation to pay any tax, assessment, or charge that Lessee disputes in good faith in appropriate proceedings prior to a final determination that such tax is properly assessed and provided that no lien shall attach to the Premises, the Property, the Access Route or the Utility Route.

D. Lessee shall have the right, at its sole option, cost and expense, to appeal, challenge or seek modification of any tax assessment or billing (Disputed Sums) for which Lessee is wholly or partly responsible for payment. Lessor, at Lessee's sole cost and expense, shall reasonably cooperate with Lessee in filing, prosecuting, and perfecting any appeal or challenge

to taxes as set forth in the preceding sentence, including but not limited to, executing any consent, appeal, or other similar document. In the event that an appeal or challenge by Lessee results in a reduction, credit or repayment received by the Lessor for any taxes previously paid by Lessee and Lessor receives such reduction, credit, or repayment, Lessor agrees to promptly reimburse to Lessee the amount of said reduction, credit or repayment as to Lessee's interest in the Premises, the Property, the Access Route or the Utility Route. In the event that Lessee does not have the standing rights to pursue a good faith and reasonable dispute of any taxes under this paragraph, Lessor will pursue such dispute at Lessee's sole cost and expense upon written request of Lessee. If Lessee exercises its right to appeal, challenge, or seek modification of the Disputed Sums and a bond or deposit required to be tendered to prosecute the appeal, then Lessee shall also be solely responsible to providing such bond or deposit.

14. ASSIGNMENT & SUBLEASING

A. Subleasing Prohibited. Lessee shall not sublet, license, or in any other way grant or continue to grant to any party any rights or permission to use any part of the Premises and/or Property or rights under this Lease Agreement.

B. Lessor's Permission Required to Assign. Lessee shall not assign or transfer to any party any rights to use any part of the Premises and/or Property or rights under this Lease Agreement, except as provided in Section 14.C below, with or without consideration, unless Lessee first obtains Lessor's prior written consent in each instance, which consent Lessor shall not unreasonably withhold.

C. Transactions not Deemed to be Assignments. Notwithstanding Section 14.B above, the Parties shall not deem any of the following to be an assignment pursuant to that section:

- (i) any change of stock ownership, partnership interest, or complete control of Lessee; or
- (ii) transfer upon partnership or corporate dissolution of Lessee; or
- (iii) Lessee's entering into a site management agreement with a third party.

D. Conditions under which Lease Agreement may be Sold, Assigned, or Transferred. Lessor acknowledges and agrees that this Lease Agreement may in whole be sold, assigned or transferred by Lessee without any approval or consent of Lessor to:

- (i) Lessee's principal or to any of the wholly-owned subsidiaries of its principal or any entity that controls, is controlled by, or is under common control with Lessee; or
- (ii) any entity which acquires fifty percent (50%) or more of Lessee's assets in the market defined by the Federal Communications Commission (FCC) in which the Premises is located by reason of a merger, acquisition or other business reorganization.

E. Inter-company Roaming Agreements. The Parties do not intend and shall not construe anything in this Section to prohibit or interfere with Lessee's use of the Premises under standard inter-company roaming agreements between Lessee and other third-party wireless service providers.

15. DEFAULT & RIGHT TO CURE

A. The Parties deem the following as a default by Lessee and a breach of this Lease Agreement:

- (i) Lessee's failure to deliver Rent or Holdover Rent if such Rent or Holdover Rent remains unpaid for fifteen (15) calendar days after Lessee receives written notice thereof from Lessor; or

(ii) Lessee's nonperformance of any other term under this Lease Agreement if performance remains due for thirty (30) days after Lessee receives written notice from Lessor of the nonperformance. No such default, however, will be deemed to exist when Lessee materially commences to cure such default within the time periods specified above and attempts to cure to completion with reasonable diligence. Lessor shall excuse reasonable delays in Lessee's efforts to cure when a force outside the reasonable and actual control of Lessee causes a delay. Lessee will use its best efforts to notify Lessor of such delays in writing within five (5) working days after first becoming aware of the delay, the nature of the delay, and an estimated cure resumption date. During this period, the Lessee is still required to perform the duties under this Lease Agreement which it is able to perform, and only those duties which cannot be performed as required herein shall be tolled.

B. If Lessee remains in default beyond any applicable notice and cure periods, Lessor will have the right to exercise any and all rights and remedies available to it under law and equity, including the right to seek injunctive relief, and including without limitation the right:

(i) to cure Lessee's default and to charge the actual and reasonable costs of such cure to the Lessee; or

(ii) to declare this Lease Agreement terminated.

C. The Parties deem Lessor's nonperformance of any term under this Lease Agreement, except any nonperformance that impairs Lessee's access to the Premises, as a default by Lessor and a breach of this Lease Agreement if performance remains due for thirty (30) days after Lessee notifies Lessor of the nonperformance. With respect to any nonperformance that impairs Lessee's access to the Premises, Lessor shall be in default of this Lease Agreement if the performance remains due for ten (10) days after Lessee notifies Lessor of the nonperformance. No such default, however, will be deemed to exist when Lessor materially commences to cure such default within the time periods specified above and prosecutes efforts to cure to completion with reasonable diligence. Lessee shall excuse reasonable delays in efforts to cure when a force outside the reasonable control of Lessor causes such delay. If Lessor remains in default beyond any applicable cure period, Lessee will have the right to exercise any and all rights and remedies available to it under law and equity, including without limitation the right to cure Lessor's default and to charge the reasonable costs of such cure to the Lessor, the right to seek injunctive relief, or to declare this Lease Agreement terminated.

16. TERMINATION

A. Termination by Lessee. Lessee may terminate this Lease Agreement:

(i) upon thirty (30) days written notice to Lessor if, prior to Lessee's initial installation of the Communication Facilities, Lessee either: (a) obtains unacceptable results of any tests, or (b) determines that the Premises is inappropriate or unnecessary for Lessee's business; or

(ii) upon thirty (30) days written notice to Lessor if any government permit authority denies or revokes any government approvals or permit (including, without limitation, an FCC license) necessary for the installation and/or operation of the Communications Facilities or the operation of Lessee's business after Lessee has used its commercially reasonable efforts to obtain such approvals or permits; or

(iii) upon thirty (30) days written notice to Lessor if Lessor materially breaches any material term under the Lease Agreement beyond all applicable cure periods; or

(iv) for any or no reason upon one hundred eighty (180) days written notice to Lessor.

B. Early Termination Fee. Should Lessee terminate this Lease Agreement pursuant to Section 16.A(iv), then Lessee shall accompany its notice of termination with an “Early Termination Fee” equal to the unpaid remainder of Rent for the then current five-year Term. Such Early Termination Fee shall not be considered as Rent or any offset to Rent. No Early Termination Fee shall apply if this Lease Agreement is terminated during a Holdover Term or terminated for Lessor’s uncured breach of this Lease Agreement beyond all cure periods.

C. Termination by Lessor. Lessor may terminate this Lease Agreement if:

(i) Lessee fails to cure any monetary breach of this Lease Agreement after applicable notice and cure periods as set forth herein; or

(ii) Lessee fails to remedy harmful interference with Lessor’s equipment pursuant to Section 11.A of this Lease Agreement; or

(iii) Lessee materially breaches any material term under the Lease Agreement beyond all applicable notice and cure periods.

D. Termination by Either Party. Pursuant to Section 1.B of this Lease Agreement, if the Parties are unable to agree on a mutually acceptable relocation site during the first sixty (60) days of the Relocation Period, then either Party may terminate this Lease Agreement by delivering written notice of such termination to the other Party and this Lease Agreement shall terminate thirty (30) days after receipt of such notice.

E. Upon termination of this Lease Agreement, Lessee shall comply with the removal and restoration provisions herein.

17. CONDEMNATION

In the event Lessor receives notification of any condemnation proceedings affecting the Property, Lessor will promptly provide notice of the proceeding to Lessee. If a condemning authority takes all of the Premises, or a portion thereof, sufficient in Lessee’s reasonable determination to render the Premises unsuitable for Lessee’s Communication Facilities, Lessee may terminate this Lease Agreement by delivering written notice of such termination to Lessor, effective (at the latest) as of the date the title vests in the condemning authority. The Parties will each be entitled to make their own condemnation claims in connection with their interests in the Premises.

18. CASUALTY

A. Notice of Material Casualty. Each Party hereto will endeavor to provide written notice to the other of any material casualty affecting the Premises, the Property, the Access Route or the Utility Route, within two (2) business days of the Party’s awareness of the casualty.

B. Termination due to Casualty. If any part of the Communication Facilities or Premises is damaged by fire or other casualty not caused by or attributable to Lessee or its agents or contractors or subcontractors so as to render the entire Premises, or any substantial portion thereof, unsuitable for Lessee’s use, in Lessee’s reasonable determination, then Lessee may terminate this Lease Agreement by providing written notice to the Lessor. Such termination will be effective as of the date of such written notice. Notwithstanding such termination, Lessee shall continue to pay the appropriate Rent or Holdover Rent (if applicable) and any monies due to Lessor until all of the removal and restoration requirements herein are performed by Lessee.

19. WARRANTIES

The Parties warrant as follows:

A. Compliance with Laws. Each Party's execution and performance of this Lease Agreement complies with all applicable federal, state and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any manner affecting the performance of this Lease Agreement; and

B. Encumbrances. Lessee shall not permit the Premises or any portion thereof to be encumbered by liens, restrictions, mortgages, covenants, conditions, or easements. Lessee will not enter into any agreements of record or not of record that would adversely affect Lessor's ownership and use and enjoyment of the Premises, the Property, the Access Route or the Utility Route, except as specifically provided for pursuant to this Lease Agreement.

20. ENVIRONMENTAL

A. Environmental and Industrial Hygiene Laws. Lessor and Lessee agree that each will be responsible for its own compliance with any and all environmental and industrial hygiene laws related to that Party's activity conducted in or on the Premises, the Property, the Access Route or the Utility Route. This includes any regulations, guidelines, standards, or policies of any governmental authorities regulating or imposing standards of liability or standards of conduct with regard to any environmental or industrial hygiene condition or other matters as may now or at any time hereafter be in effect.

B. Lessor and Lessee agree to hold harmless and indemnify the other from, at the sole expense and responsibility of the indemnifying Party for payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding to the extent the same arises out of:

(i) the indemnifying Party's failure to comply with any environmental or industrial hygiene law, as set forth above; or

(ii) any environmental or industrial hygiene conditions that arise out of or are in any way related to the condition of the Premises, the Property, the Access Route or the Utility Route, to the extent caused by the activities conducted by the indemnifying Party thereon, except to the extent the environmental conditions are caused by the other Party.

C. The indemnifications of this Section 20 specifically include reasonable costs, expenses and fees incurred in connection with any investigation of Property conditions or any clean-up, remediation, removal or restoration work required by any governmental authority. Notwithstanding the foregoing or any other provision herein, (i) Lessee shall not be liable for or responsible for addressing environmental conditions arising out of petroleum or other hazardous substances that existed on the Premises, Property, Access Route, or Utility Route before the date of this Lease Agreement, or that otherwise do not result from the activities of Lessee; (ii) the provisions of this Section will also survive the expiration or termination of this Lease Agreement.

21. NOTICES

All notices and demands in regards to this Lease Agreement must be given by first class certified or registered mail, return receipt requested, postage prepaid, or by a nationally recognized overnight courier, courier fee prepaid. All such properly sent notices and demands shall be effective when received, rejected or refused by the recipient. Notices will be addressed to the Parties as follows:

To Lessor

City of Santa Fe
Attn: City Manager
200 Lincoln Avenue,
Santa Fe, New Mexico 87501

with a copy to Lessor's legal counsel:

City of Santa Fe
Attn: City Attorney's Office
200 Lincoln Avenue
Santa Fe, New Mexico 87501

To Lessee

Verizon Wireless (VAW) LLC d/b/a Verizon Wireless
180 Washington Valley Road
Bedminster, NJ 07921
Attention: Network Real Estate

Either Party may change its notice addresses in this Section written notice to the other Party. Any copy of a notice or demand to a Party's legal counsel does not constitute legal notice to that Party.

22. WAIVER OF LIENS

Lessor waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility or any portion thereof.

23. BANKRUPTCY

A. The Lessor and the Lessee hereby expressly agree and acknowledge that it is the intention of both Parties that in the event that during the term of this Lease Agreement if Lessee shall become a debtor in any voluntary or involuntary bankruptcy proceeding (a Proceeding) under the United States Bankruptcy Code, 11 U.S.C. §§ 101, *et seq.* (the Code), this Lease Agreement is and shall be treated for all purposes and considered for all intents as an "unexpired lease of nonresidential real property," and the Rent is and shall be treated for all purposes and considered for all intents as "rent" under Section 365 of the Code, 11 U.S.C. § 365 (as may be amended), and, accordingly, shall be subject to the provisions of subsections (d)(3) and (d)(4) of said Section 365 (as may be amended).

B. Any person or entity, to which this Lease Agreement is assigned pursuant to the provisions of the Code, shall be deemed without further act to have assumed all of the obligations of Lessee arising under this Lease Agreement both before and after the date of such assignment. Any such assignee shall upon demand execute and deliver to Lessor an instrument confirming such assumption. Any monies or other considerations payable or otherwise to be delivered in connection with such assignment shall be paid to Lessor, shall be the exclusive property of Lessor, and shall not constitute property of the Lessee or of the estate of Lessee within the meaning of the Bankruptcy Code. Any monies or other considerations constituting Lessor's property under the preceding sentence not paid or delivered to Lessor shall be held in trust for the benefit of Lessor and be promptly paid to Lessor.

24. TECHNICAL STANDARDS

Lessee agrees that the physical installation and operation of its Communication Facilities shall comply with all applicable governmental laws and regulations, including without limitation all applicable FCC rules and regulations.

25. MEMORANDUM OF LEASE

Lessee or Lessor may record a "Memorandum of Lease" in the Office of the Santa Fe County Clerk. If either Party records a Memorandum of Lease, Rent or Holdover Rent shall continue until Lessee at its sole cost and expense has properly recorded in the Office of the Santa Fe County Clerk a full and unconditional reconveyance of the Memorandum of Lease in favor of Lessor.

26. SUBMISSION OF AGREEMENT

The submission of this Lease Agreement for examination does not constitute an offer to lease the Premises and this Lease Agreement becomes effective only upon the full execution by the Parties.

27. EXHIBITS

All exhibits referenced in this Lease Agreement and attached hereto are made a part hereof and reincorporated herein by reference. In the event of a conflict between the terms and conditions of this Lease Agreement and those of any exhibits attached hereto, the words of this Lease Agreement shall prevail. All Lessor-approved exhibits attached hereto shall be initialed by an authorized person acting on behalf of the Lessor. No substitution of any subsequent exhibit to this Lease Agreement will be allowed unless any subsequent exhibit is first initialed by a Lessor-authorized person.

28. TIME OF ESSENCE

Time is of the essence in regard to this Lease Agreement and all provisions herein.

29. DISCLOSURE

Lessee acknowledges that Lessor is a public entity under the laws of the State of New Mexico. Furthermore, the Parties acknowledge that this Lease Agreement constitutes a public record pursuant to the State of New Mexico Inspection of Public Records Act (NMSA 1978, Chapter 14, Article 2 et seq.) (the Act), that no exemption to Section 14-2-1 exists that would bar disclosure of this public record, and that Lessor must publically disclose pursuant to the Act or pursuant to any other law, regulation, or court order that may require Lessor to disclose this Lease Agreement.

30. LEASE GRANT A PROPRIETARY FUNCTION

A. The Parties hereto agree that the Lessor's grant of this lease to Lessee is solely a proprietary function as the owner of the Premises, the Property, the Access Route and the Utility Route, and is not in Lessor's capacity to grant approval for any action as a government zoning authority.

B. Lessee is solely responsible for complying with the City of Santa Fe Municipal Code and for payment of all governmental fees.

C. Lessor disclaims any and all warranties, guarantees, and assurances, actual or implied that the Lessee will be granted any or all licenses, zoning authorizations, or permits necessary to construct, modify or operate the Communications Facilities at the Premises.

31. INDEMNIFICATION AND HOLD HARMLESS

A. Duty. Lessee shall indemnify, defend, and hold harmless Lessor, its elected officials, officers, agents, employees, consultants and volunteers against any claim of liability or loss from personal injury or property damage to the extent resulting from or arising out of the negligence or willful misconduct of Lessee, its directors, officers, employees, contractors or agents. To the fullest extent permitted by law, Lessee agrees to defend, pay on behalf of, indemnify, and hold harmless Lessor, its elected and appointed officials, employees, agents, volunteers and other person working on behalf of Lessor against any and all claims, demands, suits or loss, including all costs connected therewith, and for any damages which may be asserted, claimed or recovered including those for bodily injury, death, or property damage or loss of use of property, to the extent they arise out of Lessee's breach of this Lease Agreement. In no event shall such indemnification obligations under this Lease Agreement include any such claims or damages that are due to or caused by the negligence or willful misconduct of Lessor, or its elected and appointed officials, employees, agents, volunteers and other person working on behalf of Lessor.

Circumstances under which Lessor will not be held liable include, but are not limited to:

(i) any work or act done in, on or about the Premises, the Property, the Access Route or the Utility Route, or any part thereof at the direction of Lessee, its agents, contractors, subcontractors, servants, employees, licensees or invitees on behalf of Lessee, including but not limited to the installation, use, maintenance, repair or removal of the Communication Facilities, except to the extent such work or act is done or performed by Lessor or its agents or employees, contractors, volunteers, officers or officials; and

(ii) any negligence or other willful misconduct on the part of Lessee or any of its agents, contractors, subcontractors, servants, employees, sub-tenants, licensees or invitees; and

(iii) any accident, injury or damage caused by or attributable to Lessee or its agents, contractors, subcontractors, servants, employees, sub-tenants, licensees or invitees to any person or property occurring at the Property or any part thereof, except to the extent caused by the negligence or willful misconduct of Lessor, its employees, agents, volunteers, officers or officials; and

(iv) any failure on the part of Lessee to perform or comply with any of the covenants, agreements, terms, provisions, conditions or limitations contained in this Agreement on its part to be performed or complied with; and

(v) Any failure of Lessee to comply with applicable local, state or federal laws.

B. Assumption of Risk. Lessee undertakes and assumes all risk of all conditions for its directors, officers, employees, contractors, subcontractors, affiliates, and agents (collectively, "Lessee" for the purpose of this Section), if any, on or about the Premises. Lessee hereby agrees to defend, indemnify, and hold harmless Lessor from and against any claim asserted or liability imposed upon Lessor, its officers, agents, employees, and consultants for personal injury or property damage to any person to the extent arising out of Lessee's installation, operation, maintenance, or use of the Premises or Lessee's failure to comply with any federal, state, or local statute, ordinance, or regulation. In no event shall such indemnification obligation apply to the extent such injury or damage arises from the negligence or willful misconduct of Lessor, or its elected and appointed officials, employees, agents, volunteers and other person working on behalf of Lessor.

C. Defense of Lessor. In the event that any action or proceeding shall be brought against Lessor in connection with any matter for which Lessee indemnifies Lessor under this Lease Agreement, Lessee shall, upon notice from Lessor, at Lessee's sole cost and expense, resist and defend the same action or proceeding with legal counsel selected by Lessee.

D. Notice, Participation, and Expenses. Lessor shall promptly notify Lessee of any action or proceeding brought against Lessor in connection with any matter for which Lessee indemnifies Lessor under this Lease Agreement. Nothing in this Lease Agreement shall limit or prohibit Lessor or its own counsel from participating in the defense of any such action or proceeding if Lessee fails to respond in a timely manner or to indemnify Lessor in accordance with this Lease Agreement. In such event, Lessee shall pay all reasonable expenses incurred by Lessor to respond to such action or proceeding, which shall include all reasonable out-of-pocket expenses such as attorney's fees and the reasonable value of services rendered by the City of Santa Fe and its special counsel. Notwithstanding the foregoing, if Lessor's participation is required by Lessee to fulfill its indemnification obligation, Lessee shall pay all reasonable expenses incurred by Lessor's participation, including all reasonable out-of-pocket expenses for Lessor's employees, expert witnesses, disbursements and liabilities assumed by Lessor in connection with such actions or proceedings.

E. Limitation of Liability. Lessor shall not be liable to Lessee or any of its respective agents, representatives, or employees or any other person or entity under theory of contract, tort, negligence, strictly liability or any other theory for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, interruption or loss of use of service, or any other such potential liability even if advised of the possibility of such damages.

32. MISCELLANEOUS

A. Brokers. Either Party hereto that is represented in this transaction by a broker, agent or commission salesperson (a Representative) shall be fully and exclusively responsible for the payment of any fee, commission or other compensation owing to such Representative. Lessee and Lessor shall indemnify and hold each other harmless from and against any claim to a fee, commission, or other compensation asserted by such Representative, including reasonable attorneys' fees and costs incurred in defending such claim.

B. Descriptive Headings Only. The bold section titles and subtitles are for convenience only and have no legal or contractual effect in this Lease Agreement.

C. Survival. Terms and conditions of this Lease Agreement which by their sense and context survive the termination, cancellation or expiration of this Lease Agreement will so survive, whether or not specifically required in any Section or provision of this Lease Agreement.

D. No Personal Liability. No employees, officers, elected or appointed officials, volunteers, and contractors of the Lessor or Lessee shall be personally liable for any default or liability under this Lease Agreement.

E. Nondiscrimination. Lessee shall comply with all federal, state and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals applicable to Lessee's performance of this Lease Agreement, including without limitation laws requiring licensing and non-discrimination in employment because of race, creed, color, sex, age, marital status, physical or mental disability, national origin or other prohibited bases.

F. Choice of Laws and Venue. This Lease Agreement shall be construed in accordance with the laws of the State of New Mexico without regard to conflicts of laws. Venue for any action or claim arising out of or connected with this Lease Agreement shall reside exclusively in the State of New Mexico First Judicial District Court (the Court). All Parties to this Lease Agreement agree to be subject to the jurisdiction of the Court, and waive all claims whatsoever that would defeat the jurisdiction of the Court to hear and adjudicate any claim arising out of or connected with this Lease Agreement.

G. Attorney's Fees. The prevailing Party in any final or non-appealed court decision on the merits of the case arising from litigation hereunder may be entitled to its reasonable attorneys' fees and costs, including reasonable witness and associated fees, if awarded in the sole discretion of the Court. With respect to any provision in this Lease Agreement providing for payment or indemnification of attorneys' fees, such fees shall be deemed to include reasonable fees incurred through any applicable appeal process and shall include but not be limited to fees attributable to legal services provided by any in-house counsel to the prevailing or indemnified Party. For all purposes hereof, the services of attorneys shall be valued at the average hourly rate for independent legal counsel prevailing in the City of Santa Fe, New Mexico at the time the Court elects to make such an award.

H. Modifications. This Lease Agreement cannot be amended, modified, or revised unless done so in writing and signed by authorized agents of the Parties.

I. No Waivers. No provision may be waived except in a writing signed by both Parties. The waiver by either Party hereto of any breach of any term or provision of this Lease Agreement shall not be construed as a waiver of any subsequent breach.

J. Integration. This Lease Agreement constitutes the entire agreement and understanding of the Parties and supersedes all offers, negotiations and other agreements. There are no representations or understandings of any kind not set forth herein. This Lease Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the Parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Lease Agreement.

K. Estoppel. Each Party agrees to furnish to the other such truthful estoppel information as the other may reasonably request within thirty (30) days of receipt of each such request.

L. Successors. This Lease Agreement shall extend to and bind the heirs, personal representative, successors and assigns of the Parties hereto.

M. Payment of Sums during Breach. The receipt of any sum paid by Lessee to Lessor after a breach of this Lease Agreement shall not be deemed a waiver of such breach unless expressly set forth in writing by Lessor.

N. Interpretation. The Parties acknowledge and agree that each of the Parties has been represented by legal counsel or has had full opportunity to consult with legal counsel and that each of the Parties has participated in the negotiation and drafting of this Lease Agreement. Accordingly, except as provided herein, it is the intention and agreement of the Parties that the language, terms and conditions of this Lease Agreement are not to be construed in any way against or in favor of any Party hereto by reason of the roles and responsibilities of the Parties or their counsel in connection with the preparation of this Lease Agreement.

O. 47 U.S.C. § 1455(a) Inapplicable to this Lease Agreement. The Parties acknowledge and agree that Lessor grants this Lease Agreement in its proprietary capacity as land owner of

the Premises, the Property, the Access Route and the Utility Route. The Parties further acknowledge and agree that the provisions of 47 U.S.C. § 1455(a) [Section 6409(a) of the Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. 112-96, H.R. 3630, 126 Stat. 156 (enacted Feb. 22, 2012)] are completely inapplicable to this Lease Agreement.

P. “As Is” Condition. Except as otherwise expressly stated herein, Lessee is leasing the Premises “AS IS” and Lessor does not represent that the Premises is suitable for Lessee’s intended use or any particular use or purpose. Lessee is solely responsible to undertake or forego such due diligence necessary to determine the condition and suitability of the Premises and Property.

Q. No Partnership. This Lease Agreement shall not be construed to establish any form of partnership or joint venture between the parties.

[REMAINDER OF THIS PAGE LEFT BLANK INTENTIONALLY.]
[SIGNATURES APPEAR ON THE FOLLOWING PAGE.]

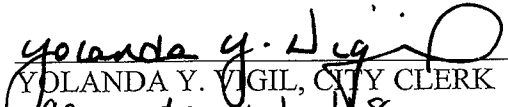
IN WITNESS WHEREOF, the Parties have caused this Lease Agreement to be effective as of the Effective Date specified herein.

LESSOR:

CITY OF SANTA FE


ALAN M. WEBBER, MAYOR

ATTEST:


YOLANDA Y. VIGIL, CITY CLERK
CC mtg. 10/10/18
APPROVED AS TO FORM:


ERIN K. McSHERRY, CITY ATTORNEY

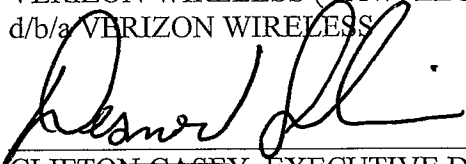
APPROVED:


MARY T. MCCOY, FINANCE DIRECTOR 

BUS.UNIT/LINE ITEM: ~~51100~~460350
21117

LESSEE:

VERIZON WIRELESS (VAW) LLC
d/b/a VERIZON WIRELESS

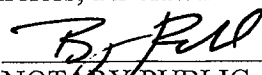

CLIFTON CASEY, EXECUTIVE DIRECTOR
NETWORK FIELD ENGINEERING
DESMOND JACKBIR

ACKNOWLEDGEMENT

Desmond Jackbir
Director-Network Field Engineering

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

The foregoing instrument was acknowledged before me this 1 day of OCTOBER 2018, by ~~Clifton Casey, Executive Director~~ **Desmond Jackbir** – Network Field Engineering, Verizon Wireless (VAW) LLC d/b/a Verizon Wireless, a Delaware corporation.


NOTARY PUBLIC

My Commission Expires: 06/01/2021
(SEAL)

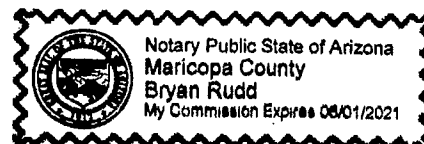


EXHIBIT A

[SEE ATTACHED SHEETS]

ENGINEERING

2012 INTERNATIONAL BUILDING CODE OR LATEST EDITION
2014 NATIONAL ELECTRICAL CODE
IA-222-C OR LATEST EDITION

GENERAL NOTES

THE FACILITY IS OWNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTING AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DEGRADATION OF EFFECT ON DRAINAGE. NO SIGNIFICANT SERVICES OR UTILITIES ARE AFFECTED. NO DISPOSAL IS REQUIRED AND NO COMMERCIAL STORAGE IS PROPOSED.

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT FOR VERIZON WIRELESS. THE FOLLOWING INFORMATION DESCRIBES THE SCOPE AND CONTENT OF THE PROJECT:

- PROPOSED (1) CITY OF SANTA FE LIGHT P-24
- PROPOSED (1) WALKWAY
- PROPOSED (1) HYBRID FLY CABLES
- PROPOSED (1) DWP UNIT
- PROPOSED (1) HYBRID FLY CABLES
- PROPOSED (1) OUTDOOR CABINET
- PROPOSED (1) IN-TROOP CABINET
- PROPOSED (1) POWER DISTRIBUTION INTERFACE
- PROPOSED (1) SERVICE DISCONNECT
- PROPOSED (1) STEER
- PROPOSED (1) DWP UNIT

SITE INFORMATION

PROPERTY OWNER: CITY OF SANTA FE (NAD 1983 UTM-10 PARK)
ADDRESS: 200 MURALES RD. (NAD 1983 UTM-10)
CITY OF SANTA FE
CITY OF SANTA FE
SITE CONTACT: JACQUELINE ANDERSON
(505) 888-5875
LATITUDE (NAD 83): 35° 41' 43.64" N
LONGITUDE (NAD 83): 105° 56' 02.04" W
GROUND ELEVATION: 7104.37' ASL
ADJACENT: SANTA FE
ZONING: TYP 3 - PLANNED COMMUNITY/PUBLIC HEARING
PARCEL #: 18700188
COUNTY: SANTA FE
OCCUPANCY GROUP: -
CONSTRUCTION TYPE: -
POWER COMPANY: PNM
TELEPHONE COMPANY: -

PROJECT TEAM

PROJECT MANAGER: ENGINEER
VERIZON WIRELESS
BLACK & VEATCH CORPORATION
4835 E. GILMAN, NE
SUITE 325
DENVER, CO 80231
CONTACT: DANN LYNDS
PHONE: (480) 751-7777
PHONE: (913) 458-8771
601 Veridian Parkway, Suite 325
DENVER, CO 80231
Hager@blackandveatch.com

SITE ACQUISITION/ZONING

BLACK & VEATCH CORPORATION
4835 E. GILMAN, NE
SUITE 325
DENVER, CO 80231
CONTACT: DANN LYNDS
PHONE: (480) 751-7777
PHONE: (913) 458-8771
601 Veridian Parkway, Suite 325
DENVER, CO 80231
Hager@blackandveatch.com



NM4 - FT MARCYS

VZW PROJECT #: 20181747224

ASSESSOR'S PARCEL NO. 18700188

200 MURALES ROAD

SANTA FE, NM 87501

SANTA FE COUNTY

PROPOSED 72'-0" LIGHT POLE

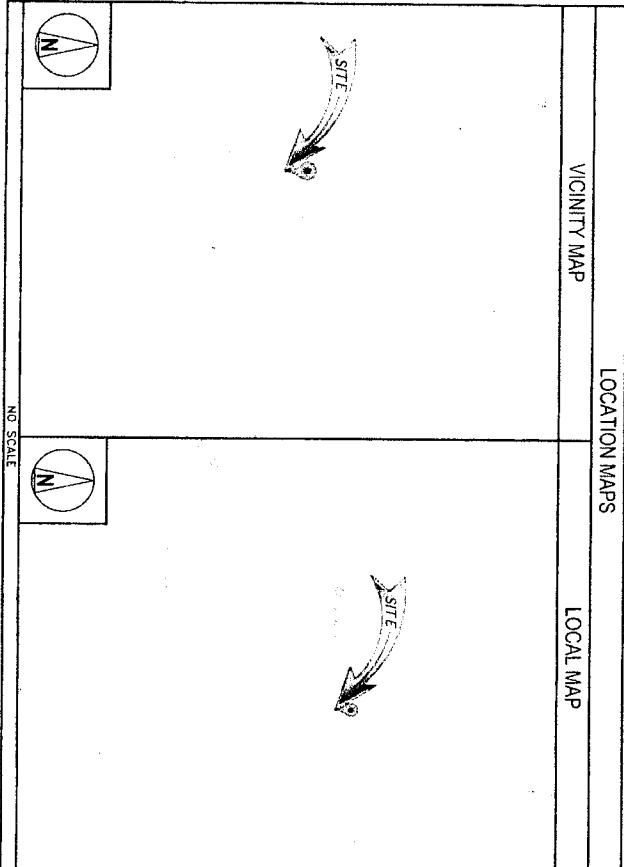
OVERALL HEIGHT: 72'-0" A.G.L.

NSB

LOCATION MAPS

VICINITY MAP

LOCAL MAP



DRIVING DIRECTIONS

DIRECTIONS FROM AUBURN OFFICE:
1) HEAD SOUTH ON GILMAN BLVD NE, 72 FT 2) MAKE A U-TURN, 0.3 MI 3) TURN LEFT ONTO SPAIN RD NE, 1.9 MI 4) TURN RIGHT ONTO JORDAN BLVD NE, 0.4 MI 5) USE THE LEFT 2 LANES TO TURN LEFT ONTO ADOBE RD NE, 1.9 MI 6) USE THE RIGHT 2 LANES TO TURN RIGHT ONTO SAN LUIS BLVD NE, 0.3 MI 7) USE THE MIDDLE COUNTRY LANE TO TURN RIGHT ONTO MURALES RD NE, 0.3 MI 8) USE THE LEFT 2 LANES TO TAKE THE RAMP ONTO I-25 N, 0.3 MI 9) FOLLOW I-25 N TO SANTA FE BLVD NE, 0.3 MI 10) TURN RIGHT ONTO MURALES RD NE, 0.3 MI 11) TURN LEFT ONTO PASO DE PERALTA, 0.9 MI 12) TURN LEFT ONTO OLD MEX HWY, 0.4 MI 13) TURN RIGHT ONTO MURALES RD, 66 FT 14) SITE WILL BE ON THE RIGHT.

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS MUST BE SIGNED BY THE LOCAL BUILDING DEPARTMENT AND MAY REQUIRE CHANGES OR MODIFICATIONS.

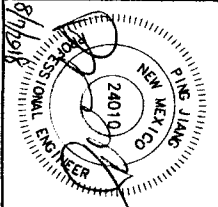
VERIZON PM: _____ DATE: _____
SITE ACQ MANAGER: _____ DATE: _____
PROPERTY OWNER: _____ DATE: _____

DRAWING INDEX

SHEET NO.	SHEET TITLE	REV
T1	INDEX SHEET	1
SP1	LEGEND & ABBREVIATIONS	1
SP2	GENERAL CONSTRUCTION NOTES	1
SP3	GENERAL ELECTRICAL NOTES	1
C1	SITE PLAN	1
C2	EQUIPMENT SITE PLAN	1
C3	EQUIPMENT LAYOUT	1
C4	ELEVATIONS	1
C5	PROPOSED ANTENNA LAYOUT & SCHEDULE	1
C6	EQUIPMENT DETAILS	1
C7	EQUIPMENT DETAILS	1
C8	EQUIPMENT DETAILS	1
E1	EQUIPMENT DETAILS	1
E2	ELECTRICAL PLAN & ELECTRICAL EQUIPMENT LAYOUT	1
E3	ELECTRICAL, AC ONE-LINE & SCHEDULE	1
E4	ELECTRICAL, DC ONE-LINE & SCHEDULE	1
E5	GROUNDING DETAILS	1

11'x17' PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE BEFORE PROCEEDING WITH THE WORK. CONTRACTOR IS RESPONSIBLE FOR SCALE.

UNDERGROUND
SERVICE ALERT
UTILITIES PROTECTION CENTER, INC.
811
48 HOURS BEFORE YOU DIG4835 GILMAN, NE
AUBURN, NM 87111BLACK & VEATCH
BLACK & VEATCH CORPORATION
8955 S. EASTERN AVENUE, SUITE 325,
LAS VEGAS, NV 89123PROJECT NO. 18700188
DRAWN BY: EK
CHECKED BY: AG1 06/07/18 MARKET COMMENTS
0 06/06/18 TOWN CD
REV DATE DESCRIPTIONJ. L. ANDERSON
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
NO. 24010
EXPIRATION DATE 12/31/2020
ADDRESS: 1000 N. GARDEN
ALBUQUERQUE, NM 87102NM4 - FT MARCYS
VZW # 20181747224
200 MURALES ROAD
SANTA FE, NM 87501
NSBSHEET TITLE
INDEX SHEETSHEET NUMBER
T1

EXOTHERMIC CONNECTION
MECHANICAL CONNECTION
CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
EXOTHERMIC WITH INSPECTION SLEEVE
GROUNDING BAR
GROUND ROD
TEST GROUND ROD WITH INSPECTION SLEEVE
SINGLE POLE SWITCH
DUPLEX RECEPTACLE
DUPLEX GPO RECEPTACLE
FLUORESCENT LIGHTING FIXTURE
(2) TWO LAMPS 48-78
SMOKE DETECTION (DC)
EMERGENCY LIGHTING (DC)
SECURITY LIGHT W/PHOTOCELL UPHOUSA ALXN
LED-1-23460/51K-SM-120-PE-DOB1XD
CHAIN LINK FENCE
WOOD FENCE
WROUGHT IRON FENCE
WALL STRUCTURE
LEAFY AREA
PROPERTY LINE
SETBACKS
UNDERGROUND POWER
UNDERGROUND TELCO
CABLE TRAY
UNDERGROUND POWER
UNDERGROUND TELCO
ABOVE GROUND POWER
ABOVE GROUND TELCO
ABOVE GROUND TELCO & POWER
UNDERGROUND TELCO & POWER
WORK POINT
SECTION REFERENCE
DETAIL REFERENCE
ELEVATION REFERENCE

Diagram illustrating various electrical and construction symbols used in the drawing, including:

- Exothermic Connection
- Mechanical Connection
- Chemical Electrolytic Grounding System
- Test Chemical Electrolytic Grounding System
- Exothermic with Inspection Sleeve
- Grounding Bar
- Ground Rod
- Test Ground Rod with Inspection Sleeve
- Single Pole Switch
- Duplex Receptacle
- Duplex GPO Receptacle
- Fluorescent Lighting Fixture (2) Two Lamps 48-78
- Smoke Detection (DC)
- Emergency Lighting (DC)
- Security Light w/PhotoCell UPHOUSA ALXN LED-1-23460/51K-SM-120-PE-DOB1XD
- Chain Link Fence
- Wood Fence
- Wrought Iron Fence
- Wall Structure
- Leafy Area
- Property Line
- Setbacks
- Underground Power
- Underground Telco
- Cable Tray
- Underground Power
- Underground Telco
- Above Ground Power
- Above Ground Telco
- Above Ground Telco & Power
- Underground Telco & Power
- Work Point
- Section Reference
- Detail Reference
- Elevation Reference

[illegible]

verizon
4871 LIGAW, NE
ALBUQUERQUE, NM 87111

BLACK & VEATCH
BLACK & VEATCH CORPORATION
6955 S EASTERN AVENUE, SUITE 325,
LAS VEGAS, NV 89123

PROJECT NO. 197354
DRAWN BY: ENI
CHECKED BY: WJS

REV	DATE	DESCRIPTION
1	06/07/01	MARKET COMMENTS
0	06/26/01	ISSUE CO

I, ROBERT L. WILSON, BE A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, AND AM NOT PROVIDING THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER OR A LICENSED PROFESSIONAL ARCHITECT TO ANY OTHER PROJECT OR PROJECTS.

NMD - FT MARCVS
VZW #: 20181747224
200 MURALES ROAD
SANTA FE, NM 87501
NSB

LEGENDS & ABBREVIATIONS

SHEET NUMBER

004

GENERAL CONSTRUCTION

- [illegible]

63. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.

62. CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.
 63. CONTRACTOR SHALL CONFIRM COAX CABLE PROTECTORS PRIOR TO CONSTRUCTION.
 64. ALL WIRINGS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE SHALL BE 1/2" DIA. LPT AND SHALL NOT EXCEED 6'-0".
 65. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'-0" OC.
 66. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
 67. CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SUEF AND OTHER EQUIPMENT WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE WITH VERTICON STANDARDS.
- GENERAL CABLE & EQUIPMENT NOTES**
68. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TOWER, DIPLEXERS, AND COAX CONFIGURATION, AND WIRING PRIOR TO INSTALLATION.
 69. ALL CONNECTIONS FOR WINDERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATIONS.
 70. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
 71. ALL OUTDOOR PER CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE PER CONNECTORS, USING BOTH THE TAPE AFTER INSTALLATION AND PUTA CONNECTIONS ARE MADE. BUTA TAPE SHALL BE USED TO WEATHERPROOF ALL PER CONNECTORS. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BLOCKING BUTA BLENDING IS NOT ALLOWED.
 72. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
 - A. TEMPERATURE SHALL BE ABOVE 5° F.
 - B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
 - C. FOR REGULATED TOWERS, FIA/ATC APPROVED PAINT IS REQUIRED.
 - D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
 73. ALL CABLES SHALL BE GROUNDING WITH COAXIAL CABLE GROUND KITS. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS.
 - A. GROUNDING AT THE ANTENNA LEVEL.
 - B. GROUNDING AT MID LEVEL. TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED.
 - C. GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
 - D. GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY POINT.
 - E. GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY POINT.
 74. ALL PROPOSED GROUND BAR COMPONENTS ARE TO BE TIED TO THE EXISTING ADJACENT GROUND BAR COMPONENTS. A MINIMUM DISTANCE OF 4'-0" BELOW GROUND BAR TERMINATIONS MAY BE EXISTING OR COMPRESSION.
 75. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANTENNA AND THE COAX CONFIGURATION IS THE CORRECT MAKE AND MODEL, PRIOR TO INSTALLATION.
 76. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S SPECIFICATION & RECOMMENDATIONS.
 77. ANTENNA CONNECTORS SHALL, FURNISH AND INSTALL A 10'-0" 1-BROOM SECTOR ANTENNA MOUNT, IF APPLICABLE, INCLUDING ALL HARDWARE.

68. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, THAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION

66. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMS, DEPLETERS, AND COAX CONFIGURATION.
67. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION.
68. ANTENNA/FEEDER/PROPAGATION SUPPORTS, BUNCHING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATION.
69. CABLE DISTRIBUTION/ROUTING.
70. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
71. ALL OUTDOOR RF CONNECTIONS/CONNECTIONS SHALL BE WEATHERPROOFED. EXCEPT THE RPT CONNECTIONS, USING BUTYL TAPE AFTER INSTALLATION, AND PULP CONNECTIONS ARE DONE. BUTYL TAPE WEATHERPROOFING SHALL BE DONE FOR EACH TURN, AND EACH LATER SHALL BE WEATHERPROOFED. THREE TIMES WEATHERPROOFING SHALL BE SMOOTH. MINOR SPOOKING. EVENT, SPOOKING IS NOT ALLOWED.
72. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:

BLACK & VEATCH CORPORATION
8965 S EASTERN AVENUE, SUITE 325
LAS VEGAS, NV 89123

PROJECT NO:	197856
DRAWN BY:	EX
CHECKED BY:	MB

REV	DATE	DESCRIPTION
0	06/07/18	MARLET COMMENTS
1	06/30/18	TODS CO
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NM4 - FT MARCYS
VZW #: 20181747224
200 MURALES ROAD
SANTA FE, NM 87501
NSB

SHEET TITLE
GENERAL
CONSTRUCTION NOTES

SHEET NUMBER
SP2

PART 1 - GENERAL

PART 1 - GENERAL

1.1 GENERAL CONDITIONS

- A. CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS OR CONCERNS SHOULD BE SUBMITTED TO THE CONTRACTOR'S SUPERVISOR, THE SCOPES OF WORK, OR ANY OTHER ASPECTS RELATED TO THE PROJECT PRIOR TO THE PROJECT START DATE. THE CONTRACTOR SHALL MEET WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
- B. THE CONTRACTOR SHALL OBTAIN PERMITS, LICENSES, WORK ALIOT DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION PERFORMANCE FOR THE WORK DURING THIS SECTION.
- C. PERMITS, LICENSES, WORK ALIOT DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION PERFORMANCE SHALL VARY FOR ALL DIFFERENT WORKS. SHALL BE SCHEDULED TO DETERMINE DISCUSSIONS.
2. LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES.

1.3 REFERENCES.

- A. THE PUBLICATIONS LISTED BELOW ARE PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE PROPERTY OF THE INDIVIDUAL OR ENTITY TO WHOM IT IS LOANED. IT IS NOT TO BE REPRODUCED FOR CONSTRUCTION, REUSE, OR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF THE INDIVIDUAL OR ENTITY TO WHOM IT IS LOANED. THE INDIVIDUAL OR ENTITY TO WHOM IT IS LOANED SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE INFORMATION CONTAINED HEREIN. THE INDIVIDUAL OR ENTITY TO WHOM IT IS LOANED SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE INFORMATION CONTAINED HEREIN.
1. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)
2. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
3. EIA (ELECTRONIC INDUSTRIES ASSOCIATION)
4. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)
5. NEMA (NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION)
6. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
7. UL (UNDERWRITERS LABORATORIES, INC.)

1.4 SCOPE OF WORK

- A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND ASSOCIATED EQUIPMENT AND TOOLS NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS SECTION.
- B. ALL ELECTRICAL WORKMAN SHALL BE LICENSED AND TRAINED IN THE FIELD OF ELECTRICAL WORK.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRIPPING, REPAIRING, BACKFILLING, AND REPAIRS OF EXISTING WORK.
- D. APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION SHALL BE OBTAINED PRIOR TO THE START OF ANY WORK.
- E. THE CONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS. THE AS-BUILT DRAWINGS WILL BE REQUIRED FOR THE RECORD DRAWINGS OF THE PROJECT. COMPLETING THIS CONTRACT, THE AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE INSPECTION AUTHORITIES FOR REVIEW AND APPROVAL.

PART 2 - PRODUCTS

- 2.1. GENERAL:
 - A. ALL MATERIALS AND EQUIPMENT SHALL BE LISTED, NEW, AND FREE FROM DEFECTS.
 - B. ALL TESTS OF MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.
 - C. ALL MATERIALS SHALL BEAR THE UNDERWRITER'S LABEL OF APPROVAL, AND SHALL COMPLY TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
 - D. ALL UNDERGROUND CABLES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT RATING OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 (A) NEC OR THE MOST CURRENT ADOPTED CODE FOR THE GOVERNING JURISDICTION.
- ARTICLE 5 AND EQUIPMENT:

A. CONDUIT:

1. RIGID DIELECTRIC CONDUIT SHALL BE HOT-DIP GALVANIZED IRON AND OUTSIDE INCLUDING ENDS AND FITTINGS SHALL BE ENAMELED OR LACQUERED INSIDE. IN ADDITION TO GALVANIZING.
 2. LEAD-ORBITER, FIBREGLASS METAL CONDUIT SHALL BE USED.
 3. CONDUIT CLAMPS, STAYS AND SUPPORT SHALL BE OF STEEL. ON MATERIALS FROM ALL FITTINGS SHALL BE COMPRESSED AND CONCRETE FROM THE EXISTING BUSHINGS WITH INSULATED THROUS SHALL BE INSTALLED ON ALL CONDUIT TERMINATIONS.
 4. NONMETALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 MC. INSTALL USING SOLVENT-CEMENTED JOINTS AS RECOMMENDED BY THE MANUFACTURER.
- B. CONDUCTIONS AND CABLE:
1. CONDUCTIONS AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SMALL CONDUCTION, CONDUCTOR TYPE, RHHV/HHV-2, 600 VOLT, SIZE AS INDICATED. #12 MC. SHALL BE THE MINIMUM SIZE CONDUCTOR USED.
 2. FIBROPLAST SHALL BE USED.
 3. FIBROPLAST AND SMALLER CONDUCTION SHALL BE SOLID OR STRIMMED AND #8 AWG AND LARGER CONDUCTIONS.
 4. CONDUCTIONS, COMPRESSOR-TYPE CONDUCTIONS SHALL BE USED FOR TERMINATION OF ALL STRIMMED.
 5. STAY-BELT SUPPORTS GAGES SHALL BE UNIVERSAL, YELLOW OR APPROVED EQUIV. CABLES SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC AND CABLE MANUFACTURER'S RECOMMENDATIONS.
 6. ALL CONDUCTIONS SHALL BE TIED AT BOTH ENDS OF THE CONDUCTIONS AT ALL PANEL BOXES.
 7. ALL BOXES, EQUIPMENT AND CABLES SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS (ACTION CRAFT, BODY, OR APPROVED EQUIV.).

C. DISCONNECT SWITCHES

1. DISCONNECT SWITCH SHALL BE HEAVY DUTY, DEAD-POLE, DEAD-BREAK, TRIPPING EXTERNALLY OPERATED, CAPABLE OF WITHSTANDING 100% OF THE AVAILABLE SHORT-CIRCUIT CURRENT, AND INTERLOCK WITH COVER IN CLOSED POSITION, MAKING SURE THAT COVER IS KEPT SHUT WHEN IN CLOSED POSITION. SHORT-CIRCUIT OR OVERCURRENT PROTECTED EQUAL TO THE AVAILABLE SHORT-CIRCUIT CURRENT.
2. CHEMICAL, ELECTROLYTIC GROUNDING SYSTEM:
 1. FIELD, ELECTRICAL INSULATION IS REQUIRED. THE SYSTEM SHALL BE ELECTRIFYING MAINTENANCE FREE.
 2. THE SYSTEM SHALL BE PROTECTED AGAINST OVERCURRENTS AND SHORTCIRCUITS BY FUSES OR CIRCUIT BREAKERS. THE PROTECTIVE DEVICES AND SPECIAL MATERIALS MANUFACTURED SHALL BE VINYLITE AIR GROUNDING ROD TYPES K2-CVPS OR K2A-CVPS (1" LENGTH) AS REQUIRED.
 3. GROUND ACCESS BOX SHALL BE A POLYMERITE BOX FOR NON-TRAFFIC APPLICATIONS, INCLUDING BOLT CONTROLLING DEVICES SHALL BE PROVIDED WITH ANTI-CORROSION UNPAINTED INTERIORS, AND EQUIPMENT CONTROLS. BROWN COLOURS IN NUMBERING, AND THE ELECTRICAL POWER SOURCE.

3. BACKFILL MATERIAL SHALL BE LYRCONITE AND LYNDCOLE GROUNDING GRAVEL

E. SYSTEM GROUNDING

1. ALL TAPPED COMPONENTS SHALL BE TAPPED AND GROUNDED CONDUCTOR SHALL BE #2 AWG BARE SOLID TINNED COPPER ABOVE GROUND GROUNDED CONDUCTORS SHALL BE INSULATED WHEN NOT TAPPED.
2. GROUNDED RIGS SHALL BE BARE TINNED ANNEALED COPPER BARS OF RECTANGULAR CROSS SECTION, NOT BE FLATBARED OR WROUGHT IN THE FIELD. ALL GROUNDED RIGS SHALL BE IDENTIFIED WITH ALUMINUM 3/4" LETTERS BY WAY OF STENCILING OR DEBURNING.
3. CONNECTIONS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY LUGS AND LABELED AS GROUNDED MECHANICAL CONNECTIONS. WIRENUT CONNECTIONS USED ON GROUNDED CONNECTIONS SHALL HAVE SHOWN INSPECTION WINDOW AND CLAMP HEAD STAMP.
4. EXTERIOR WELDED CONNECTIONS SHALL BE PROTECTED IN A HOT TANK AND SELECTED FOR THE "SPEC" TYPE, SIZE, AND CONNECTIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
5. GROUND RIGS SHALL BE EX-60 HX-8800 COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL. ALL GROUNDED RIGS SHALL BE INSULATED WITH NON-FLAMMABLE STENCILED 5/8"x10-0" C-18.
6. INITIAL AN EQUIPMENT GROUNDED CONDUCTOR IS IN COMPLIANCE WITH THE VERSION SPECIFICATIONS AND THE EQUIPMENT GROUNDED CONDUCTOR SHALL BE EVIDENT AT ALL JUNCTION BOXES, PULBOCKETS, DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.
7. OTHER MATERIALS.

1. THE CONTRACT REQUIRED FOR

1. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN
2. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.

RT 3 - EXECUTION

- GENERAL:
- A. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- B. EQUIPMENT SHALL BE THOROUGHLY COVERED AND PROTECTED AGAINST DIRT OR WATER AND AGAINST CHEMICAL OR MECHANICAL DAMAGE DURING INSTALLATION AND CONSTRUCTION PERIODS.
- LABOR AND WORKMANSHIP:
- A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY EXPERIENCED WORKMEN, IN A NEAT AND WORKMAN-LIKE MANNER.
- B. REQUIRED TOOLS AND EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR.
- C. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED COMPONENTS, REMOVE ALL DEBRIS AND ANY REMAINS, CLEANING OR CARPONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

COORDINATION:

- A. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.

ALL ELECTRICAL
LESS THAN 3/

2. PASTE BRICKS SCIENTIFICALLY ON CONDUITS 100 FT APART. IN ALL BEERS, RUC OBSERVE. NOTE: C&I MAY BE INSTALLED FOR EXTERIOR CONDUITS WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
3. INSTALLS SCH. 40 PVC CONDUIT WITH A MINIMUM COVER OF 24" UNDER NON-TRAFFIC STREETS, AND ALTECS CONDUIT SHALL HAVE A MINIMUM COVER OF 18" IN ALL OTHER NON-TRAFFIC APPLICATIONS (REFER TO 2008 NEC CODE 300.5).
4. USE GALVANIZED RUST-RESISTANT CONDUIT WHERE DIRECT CONNECTION TO EQUIPMENT WITH MOVEMENT OF EQUIPMENT IS ANTICIPATED. GALVANIZED STEEL CONDUIT IS NOT ALLOWED FOR CONNECTION TO EQUIPMENT WORKING ON SUPPORT TO ALLOW FOR EXPANSION AND CONTRACTION.
5. IF ANY OF CONDUIT BETWEEN BOXES OR EQUIPMENT SHALL NOT COMPLY WITH THE FOLLOWING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF THE DEFECTS.
 - 3. NO DEFECTS: EMBLEM MAY BE USED
 - 6. FIELD FABRICATED CONDUITS SHALL BE CUT SQUARE WITH A CONDUIT CUTTING TOOL, AND ROUNDED TO PROVIDE A SMOOTH WIRE SURFACE.

7 PROVIDE INSUL

8. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDITIONS DURING CONSTRUCTION. TEMPORARY PROTECTION OF EXISTING CONDITIONS SHALL BE PROVIDED TO PREVENT EROSION OF MATERIALS OR CONSTRUCTION MATERIALS FROM BEING WASHED AWAY BY RAIN. CONSTRUCTION MATERIALS THAT CANNOT BE REMOVED
9. ALL CONDITIONS SHALL BE SWAGED CLEAN BY PULLING AN APPROPRIATE SIZE WIRELINE THROUGH THE CABLE BEFORE INSTALLATION OF CONDITIONS OR CABLES. CABLES SHOULD BE FREE OF DIRT AND DEBRIS.
10. INSTALL PUL STIRRS IN ALL CLEAN EMPTY CONDITIONS. CENTER PUL STIRRS AT EACH END.
11. CONDITIONS SHALL BE
12. CONDITIONS SHALL BE
13. PROVIDE COR DRILLING AS NECESSARY FOR PERMITTING TO ALLOW FOR REMEDY AND CABLES TO BE PROTECTED THROUGH THE BUILDING. DO NOT RELY ON STRUCTURAL MATERIALS. STEELS AND CABLES TO BE PERMITTED SHALL BE PROTECTED BY A PROTECTIVE COATING. WATER, SMOKE, FUEL, AND GASES WILL BE PERMITTED TO BE APPLIED FOR THIS PURPOSE.
- CONDITIONS AND CABLE
- ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:

DESCRIPTION

- | PHASE A | BLACK |
|-----------|-------|
| PHASE B | RED |
| PHASE C | BLUE |
| NEUTRAL | WHITE |
| GROUNDING | GREEN |

2 SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, OR ACCESSIBLE RACEWAY CONDUITS APPROVED FOR THIS PURPOSE.

3. PULLING LIFECABLES SHALL BE BY APPROVED CONTRACTOR SHALL USE MASON OR HEAVY ROPE TOWERS TO PREVENT OVERSTRESSING OF THE CABLES.
4. CABLES SHALL BE KEPT TIGHT, WITHOUT INTERFERENCE, AND BE OF SUFFICIENT LENGTH IN ALL DIRECTIONS TO PERMIT LIFTING A HEAVY ASSEMBLED CABLES SHALL BE SECURED IN A MECHANICAL MANNER TO PREVENT SLIPPING. SHARP BENDS, OVER CONDUITS, OR THROUGH CABLES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

1. METALLI ELEGANTI

- d. Grounding:
 1. Remove electrical grounding and bonding system installed under assembly at all terminals, including grounding electrodes, bonding jumpers and additional accessories as required for a complete installation.
 2. All remaining conductors shall provide a straight downward path to ground with ground bonding connections and conductors to ground in the shortest and straightest path possible to minimize transient voltage risks.
 3. Interconnecting and bonding connections, including screws and bolts, in accordance with manufacturer's bonding requirements are not allowed. Connectors and bolts, where used, must adhere to the following:
 - a. Connectors shall verify the locations of bonding, i.e., 90°-flange to the existing ground process and installed in accordance with applicable standards by the contractor.
 - b. Connectors shall be verified as meeting or exceeding the applicable industry standards.

ALL UNCOMING
CONNECTIONS S

6. APPLY CORROSION-RESISTANT PASTE TO FIELD CONNECTIONS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS ARE DISRUPTED. USE RICH-SHIELD ANTI-OXIDATION COMPOUND ON ALL COMPRESSION GROUNDING CONNECTIONS.
7. ATTACH ALL GROUNDING CONNECTIONS TO THE MAIN GROUNDING BUS.
8. BOND ALL INSULATED GROUNDING BUSINES WITH A BARE 6 AWG GROUNDING CONDUCTOR TO A GROUND BAR.
9. DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30" MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE. USE THE GREATER OF THE TWO DIMENSIONS.
10. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
11. THE INSTALLATION OF CHEMICAL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, REQUIRES SEALING LIFE FROM LATCHING AND BREATHER HOLES INSTALLED PROVIDING BOLD FLUSH WITH GRADE.
12. 12.5' GAPS ON THE ICE BRIDGE IS MORE THAN 6 FT. FROM THE GROUND BAR AT THE BASE OF THE PILE. GAPS ON THE ICE BRIDGE IS MORE THAN 6 FT. FROM THE ICE BRIDGE.
13. COVER ALL GROUNDING NUTS AND IN-LEAK ANTI-ROSTERS.
14. CONDUCTOR SHALL REPAIR, AND/OR REPLACE EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION OF THE CONNECTIONS EXPENSE.

ACCEPTANCE TESTING:

4. CERTIFIED PERSONS USING CERTIFIED EQUIPMENT SHALL PERFORM REQUIRED TESTS AND SUBMIT WRITTEN TEST REPORTS UPON COMPLETION.
5. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NON-COMPLYING ITEMS SHALL BE REMOVED FROM THE PROJECT SITE AND REPLACED WITH EQUIPMENT COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE FROM THE PROJECT MANAGER.
6. TEST PROCEDURES:
1. ALL FEEDERS SHALL HAVE INSULATION TESTED AFTER INSTALLATION, BEFORE CONNECTION TO DEVICES OR EQUIPMENT. THE TEST SHALL BE PERFORMED BY A QUALIFIED PERSON. THE TEST RESULTS FOR ONE WIRING USING TDDOT DC, PROVIDED WRITTEN DOCUMENTATION FOR ALL TEST RESULTS.
 2. PRIOR TO ENERGIZING CIRCUITRY, TEST WIND DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
 3. MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE CONDUCTORS AND NEUTRAL. SUBMIT A REPORT OF (MAXIMUM AND MINIMUM) VOLTAGES.
 4. PERFORM GROUNDING TEST TO MEASURE GROUNDING RESISTANCE OF GROUNDING SYSTEM USING THE TEST STANDARD "A POINT" "ALL-OR-NOTHING" METHOD. PROVIDE PLOTTED TEST VALUES AND LOCATION. RECORD, NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.

4821 EUBANK NE
ALBUQUERQUE, NM 87111

BLACK & VEATCH
BLACK & VEATCH CORPORATION
8965 S EASTERN AVENUE, SUITE 325.
LAS VEGAS, NV 89123

PROJECT NO.	197856
DRAWN BY:	EX:
CHECKED BY:	MS

REV	DATE	DESCRIPTION
1	08/07/18	MARKET COMMENTS
0	05/30/18	100K CD

NM4 - FT MARCYS
VZW #: 20181747224
200 MURALES ROAD
SANTA FE, NM 87501
NSB

SHEET TITLE
GENERAL
ELECTRICAL NOTES

SHEET NUMBER
SP3

NOTES

1. THIS IS NOT A BOUND SITE PLAN BASED ON INFORMATION FROM EXISTING RECORDS AND SITE VISITS.
2. PROPERTY LINES ARE APPROXIMATIONS ONLY.



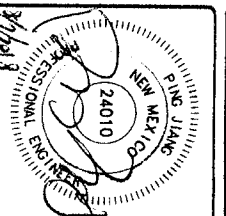
401 E. BUNKER, SE
ALBUQUERQUE, NM 87111



BLACK & VEATCH
BLACK & VEATCH CORPORATION
6903 S. LAMAR AVENUE, SUITE 325
LAS VEGAS, NV 89123

PROJECT NO: 197555
DRAWN BY: ERM
CHECKED BY: MB

REV	DATE	DESCRIPTION
1	08/07/16	SHEET COMMENTS
0	08/20/16	TOWER ID

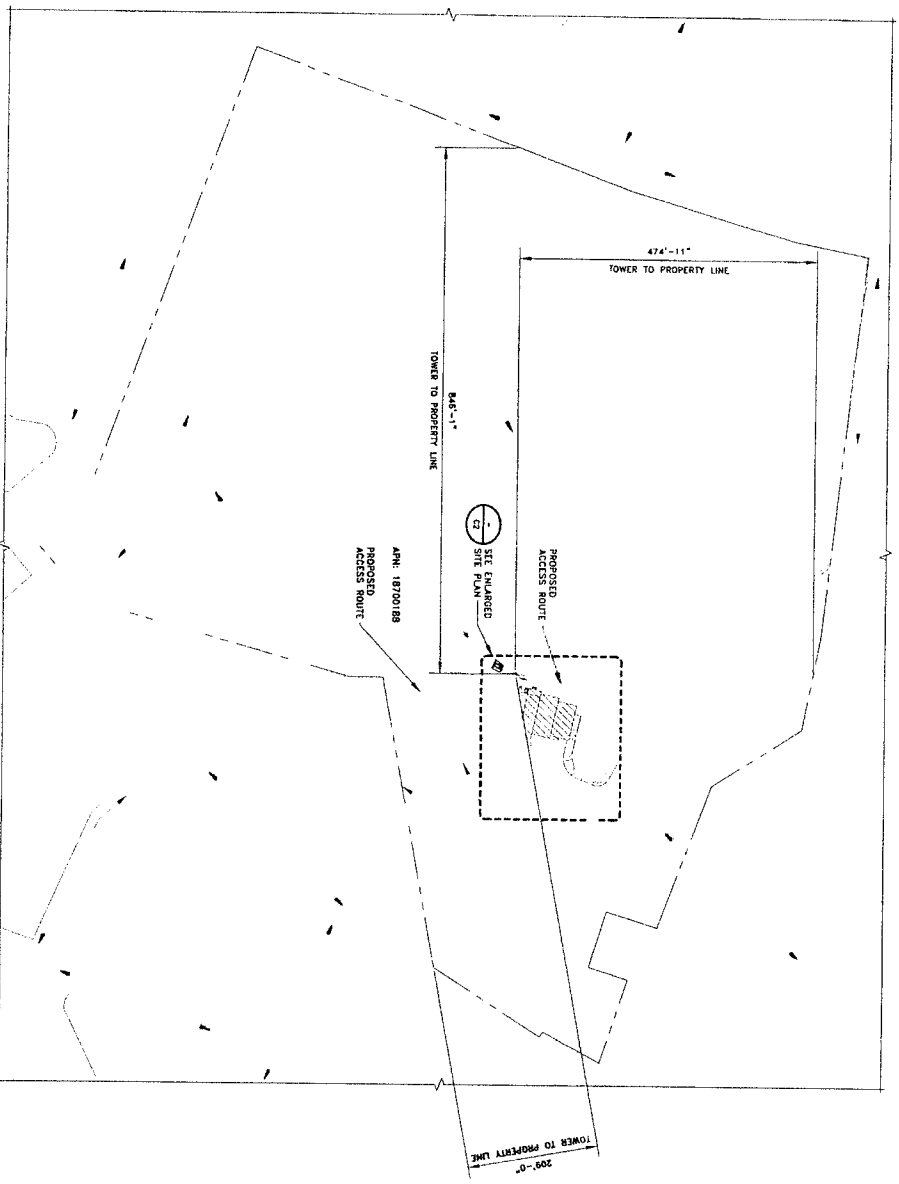


IT IS A VIOLATION OF LAW FOR ANY PERSON
TO REPRODUCE OR ALTER UNDER THE SIGNATURE
OF A LICENSED PROFESSIONAL ENGINEER
ANY INFORMATION CONTAINED HEREIN
WITHOUT THE WRITTEN PERMISSION OF THE
ENGINEER.

NM4 - FT MARCYS
VZW #: 20181741224
200 MURALES ROAD
SANTA FE, NM 87501
NSB

SHEET TITLE
SITE PLAN

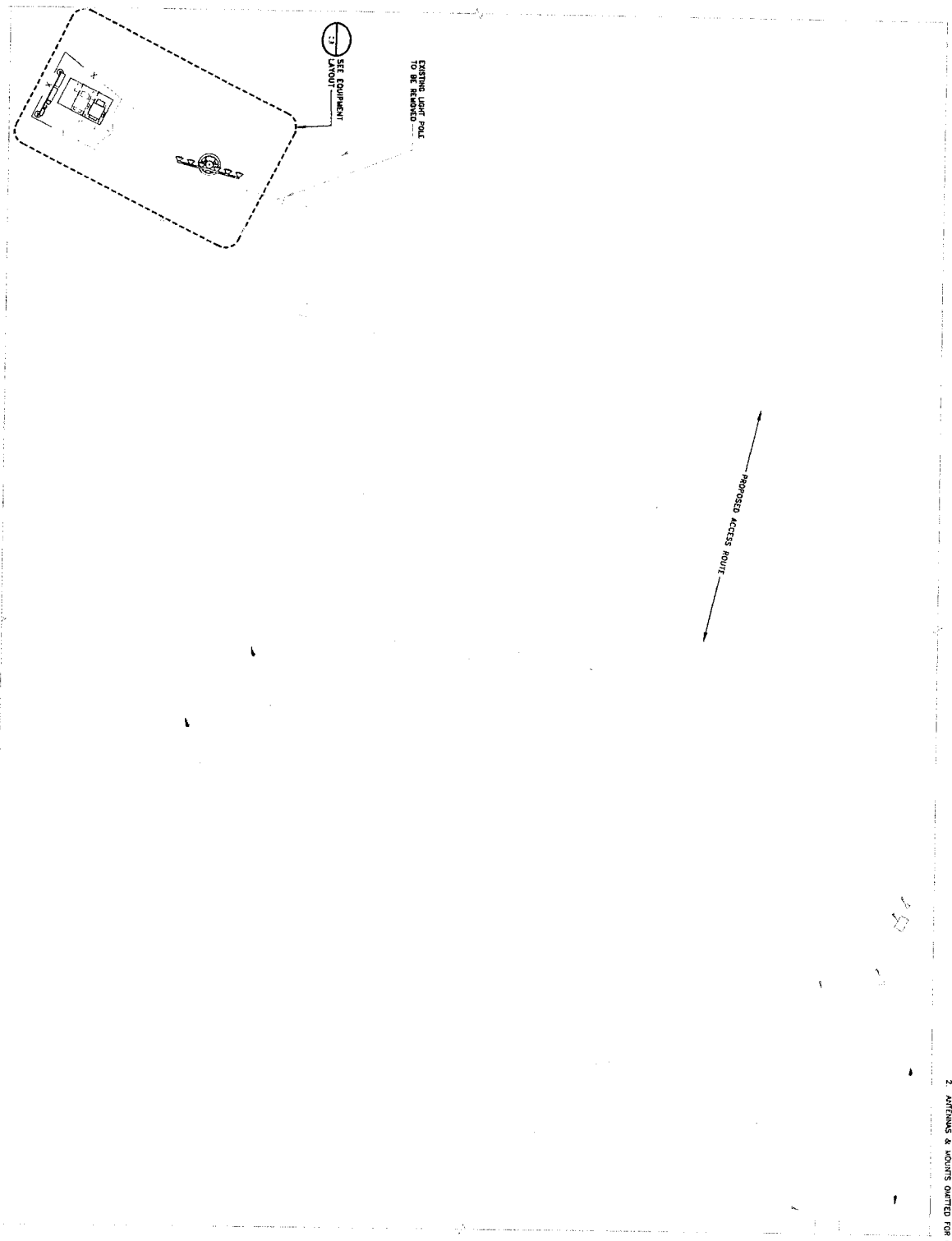
SHEET NUMBER
C1



SITE PLAN



- NOTES**
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS
 2. ANTENNAS & MOUNTS OBTAINED FOR CLARITY



OVERALL SITE PLAN

1" = 8' 0"
3/16" = 1'-0"

verizon

401 ELIZABETH RD.
ALBUQUERQUE, NM 87111

BLACK & VEATCH

BLACK & VEATCH CORPORATION
8805 S. EASTERN AVENUE, SUITE 325,
LAS VEGAS, NV 89123

PROJECT NO. 197606
DRAWN BY: DRI
CHECKED BY: MB

REV	DATE	DESCRIPTION
1	06/07/16	MARKET COMMENTS
0	05/20/16	ISSUE CD

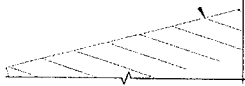
PI NO. 11466
NEW MEXICO
24010
PROFESSIONAL ENGINEER
8/16/16

THIS IS A VALIDATION OF THE REG. AND DESIGN OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

NM4 - FT. MARCOS
VZW #: 20181747224
200 MURRALES ROAD
SANTA FE, NM 87501
NSB

SHEET TITLE
ENLARGED SITE PLAN

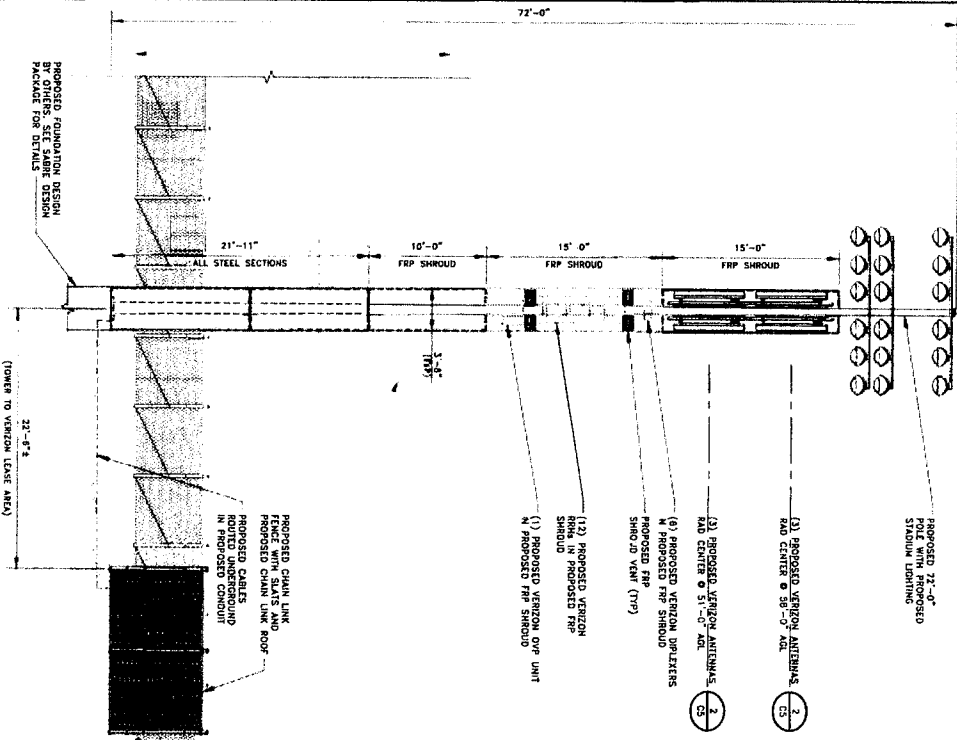
SHEET NUMBER
C2



SHEET NUMBER
C3

NOTES

1. A STRUCTURAL ANALYSIS PERFORMED BY SABIR INDUSTRIES DATED APRIL 10, 2018 HAS DETERMINED THAT THE PROPOSED TOWER AND ANTENNAS WILL PROVIDE THE PROPOSED IMPROVEMENTS.
2. ALL PROPOSED EQUIPMENT TO BE PAINTED TO MATCH PROPOSED TOWER AND ANTENNAS.



verizon

4821 EUBANK, NE
ALBUQUERQUE, NM 87111



BLACK & VEATCH

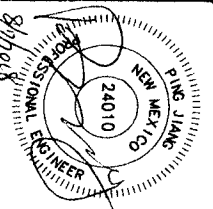
BLACK & VEATCH CORPORATION
8985 S EASTERN AVENUE, SUITE 325,
LAS VEGAS, NV 89123

PROJECT NO.: 197856

DRAWN BY: BCI

CHECKED BY: MB

REV	DATE	DESCRIPTION
1	08/07/18	MARKET COMMENTS
0	06/26/18	ISSUE CD



BLAHOLD
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
NO. 24010

NM4 - FT MARCY'S
VZW #: 20181747224
200 MURALES ROAD
SANTA FE, NM 87501
NSB

SHEET TITLE
ELEVATIONS

SHEET NUMBER
C4

EXISTING SITE ELEVATION (LOOKING EAST)



PROPOSED SITE ELEVATION (LOOKING EAST)



2

- NOTES TO CONTRACTOR**
- CONTRACTOR IS TO REFER TO VERSION'S MOST CURRENT SWR PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO USE ROSENBERGER FERRIS LINE HANGER COMPONENTS (OR ENGINEER APPROVED EQUIV.)



BLACK & VEATCH
 BLACK & VEATCH CORPORATION
 8800 S. LAS VEGAS, NV 89123

PROJECT NO: 197806
 DRAWN BY: EX
 CHECKED BY: MB

REV	DATE	DESCRIPTION
1	06/07/16	ISSUED FOR CONSTRUCTION
2	09/20/16	ISSUED FOR CONSTRUCTION

PROFESSIONAL ENGINEER
 NEW MEXICO
 24010
 8/16/18

NM4 - FT. MARCOS
 VZM #: 20181747224
 200 MURRALES ROAD
 SANTA FE, NM 87501
 NSB

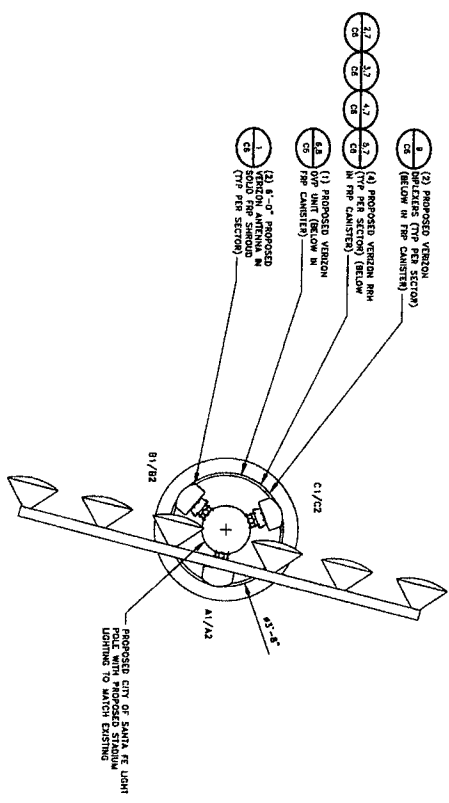
SHEET TITLE
 ANTENNA LAYOUT

SHEET NUMBER
C5

SECTOR	BAND CLASS	ANTENNA MODEL	AZIMUTH	RAD CENTER	DVP	COAX TYPE (HYBRID FLEX-AWS)	TMA/DIPLER	RH MODEL
A1	LTE 700/650 LTE 2100	COMBICORE NMH-65B-15B	100°	50'-0"			(1) COMBICORE DC-781-05-43	(1) NOKIA RH4420 B13
A2	LTE 700/650 LTE 2100	COMBICORE NMH-65B-15B	100°	51'-0"			(1) COMBICORE DC-781-05-43	(1) NOKIA RH4420 B13
B1	LTE 700/650 LTE 2100	COMBICORE NMH-65B-15B	220°	58'-4"			(1) COMBICORE DC-781-05-43	(1) NOKIA RH4420 B13
B2	LTE 700/650 LTE 2100	COMBICORE NMH-65B-15B	220°	51'-4"	(1) PROPOSED	(2) 6X12 HYBRID FLEX (PROPOSED)	(1) COMBICORE DC-781-05-43	(1) NOKIA RH4420 B13
C1	LTE 700/650 LTE 2100	COMBICORE NMH-65B-15B	340°	58'-0"			(1) COMBICORE DC-781-05-43	(1) NOKIA RH4420 B13
C2	LTE 700/650 LTE 2100	COMBICORE NMH-65B-15B	340°	51'-0"			(1) COMBICORE DC-781-05-43	(1) NOKIA RH4420 B13

PROPOSED ANTENNA AND TRANSMISSION CABLE SCHEDULE

NOTE
 1. ALL PROPOSED EQUIPMENT TO BE PLANNED TO MATCH PROPOSED TOWER AND ANTENNA



PROPOSED ANTENNA LAYOUT

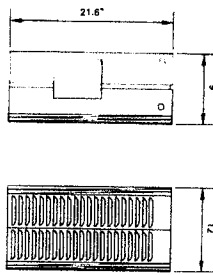
NO SCALE

2

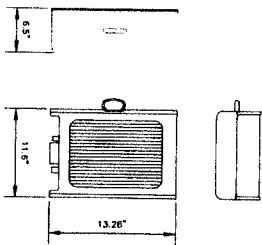
COMMSCOPE ANTENNA NHH-65B-R28
 WIDTH: 11.8" (301.0mm)
 DEPTH: 7.1" (180.0mm)
 HEIGHT: 72.0" (1828.0mm)
 NET WEIGHT: 43.7 lb (19.8 kg)
 RADIO MATERIAL: FIBERGLASS UV RESISTANT
 RADIO COLOR: LIGHT GRAY
 CONNECTOR: 7/16 DIN FEMALE



ALCATEL-LUCENT B13 RRH430-70C
 DIMENSIONS, WEIGHT:
 WEIGHT, WITHOUT MOUNTING KIT: 57.2 lbs (26 kg)



NOKIA AIRSCALE RRH 41AR B5 160W A/HGA
 DIMENSIONS, WEIGHT:
 WEIGHT: 11.6 x 5.1 x 1.2" (286 x 133 x 31 mm)
 16.7 lbs (7.6 kg) (EXCLUDING MOUNTING)



ANTENNA SPECIFICATIONS

NO SCALE

1 RRH SPECIFICATIONS (700 MHz)

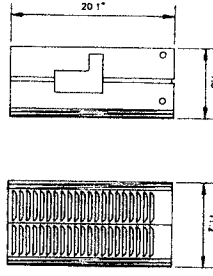
NO SCALE

2 RRH SPECIFICATIONS

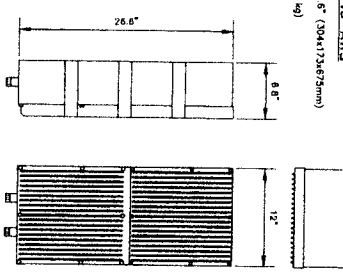
NO SCALE

3

ALCATEL-LUCENT B25 RRH260-190D
 DIMENSIONS, WEIGHT:
 WEIGHT, WITHOUT MOUNTING KIT: 48.2 lbs (21 kg)



ALCATEL-LUCENT B66A RRH435-AWS
 DIMENSIONS, WEIGHT:
 WEIGHT, WITHOUT MOUNTING KIT: 64 lbs (29 kg)



RRH SPECIFICATIONS (1900 MHz)

NO SCALE

4 RRH SPECIFICATIONS (2100 MHz)

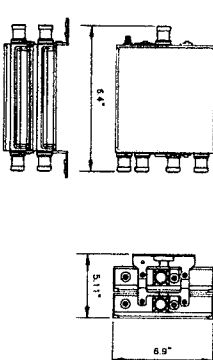
NO SCALE

MAIN OVP BOX CONNECTION DETAIL

NO SCALE

6

COMMSCOPE CBC781-DS-43/E14F0SP19
 BANDWIDTH: 608-800/824-894 MHz
 WEIGHT: 10.4 lbs (4.7 kg)
 RF CONNECTORS: 4.3-10 FEMALE
 DNR: 12 dB



RRH MOUNTING PLATE DETAIL

NO SCALE

7 OVP UNIT MOUNTING DETAIL

NO SCALE

TWIN DIPLEXER SPECIFICATIONS

NO SCALE

9

verizon

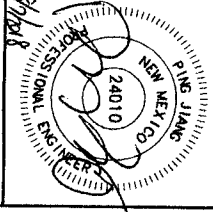
4011 S. BROAD ST.
 ALBUQUERQUE, NM 87111



BLACK & VEATCH
 BLACK & VEATCH CORPORATION
 8950 S. ALBUQUERQUE BLVD. SUITE 325
 LAS VEGAS, NV 89123

PROJECT NO: 197854
 DRAWN BY: BN
 CHECKED BY: JIB

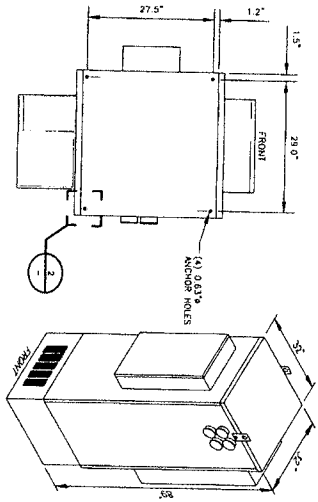
REV	DATE	DESCRIPTION
1	03/07/16	ISSUED FOR CONSTRUCTION
0	03/07/16	ISSUED FOR CONSTRUCTION



NM4 - FT MARCOS
 VZM #: 2018174/224
 200 MURALES ROAD
 SANTA FE, NM 87501
 NSB

EQUIPMENT DETAILS

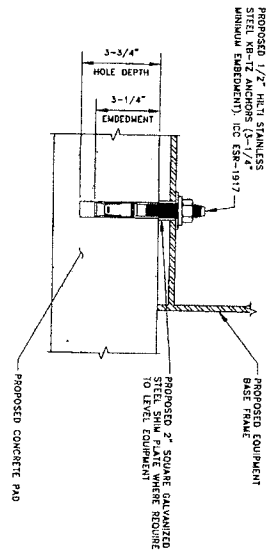
C6



CABINET DETAIL

NO SCALE

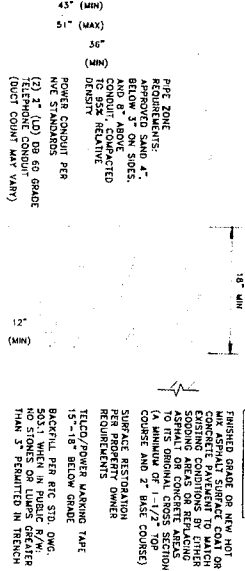
1



CONCRETE ANCHOR DETAIL

NO SCALE

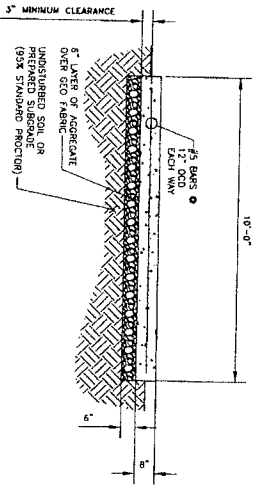
2



TRENCH DETAIL PRIVATE STREET/ONSITE

NO SCALE

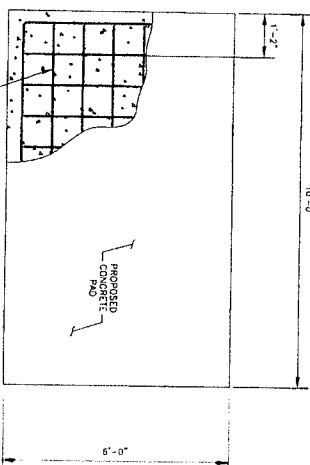
3



CONCRETE PAD ELEVATION DETAIL

NO SCALE

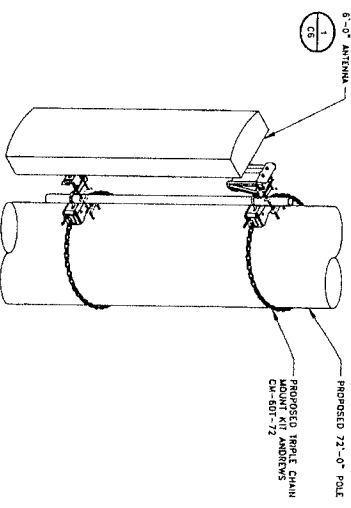
4



CONCRETE PAD PLAN DETAIL

NO SCALE

5



ANTENNA MOUNTING DETAIL

NO SCALE

6

NOT USED

NO SCALE

7

NOT USED

NO SCALE

8

NOT USED

NO SCALE

9

verizon

4301 GLENVIEW
 ALBUQUERQUE, NM 87111



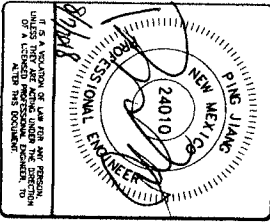
BLACK & VEATCH
 BLACK & VEATCH CORPORATION
 3905 E. LAS VEGAS AVENUE
 LAS VEGAS, NV 89123

PROJECT NO. 197555

DRAWN BY: EN

CHECKED BY: MB

REV	DATE	DESCRIPTION
1	08/07/18	MARK COMMENTS
2	08/20/18	ISSN CD



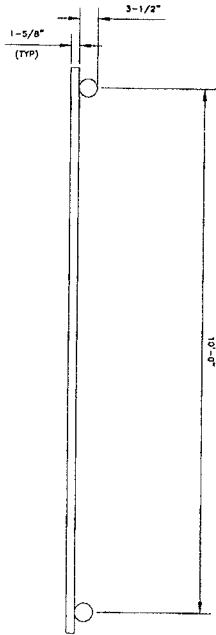
NM4 - FT MARCOS
 VZW # 20181747224
 200 MORALES ROAD
 SANTA FE, NM 87501
 NSB

EQUIPMENT DETAILS

SHEET TITLE

SHEET NUMBER

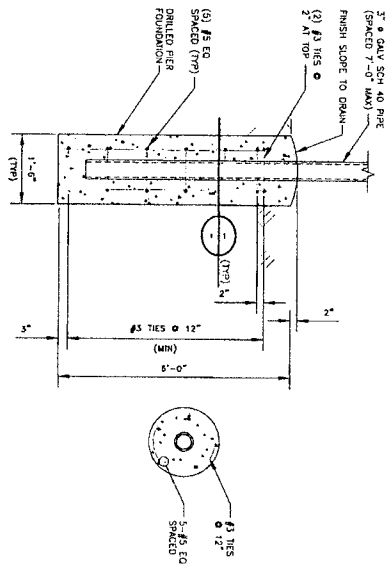
C7



H-FRAME PLAN DETAIL

NO SCALE

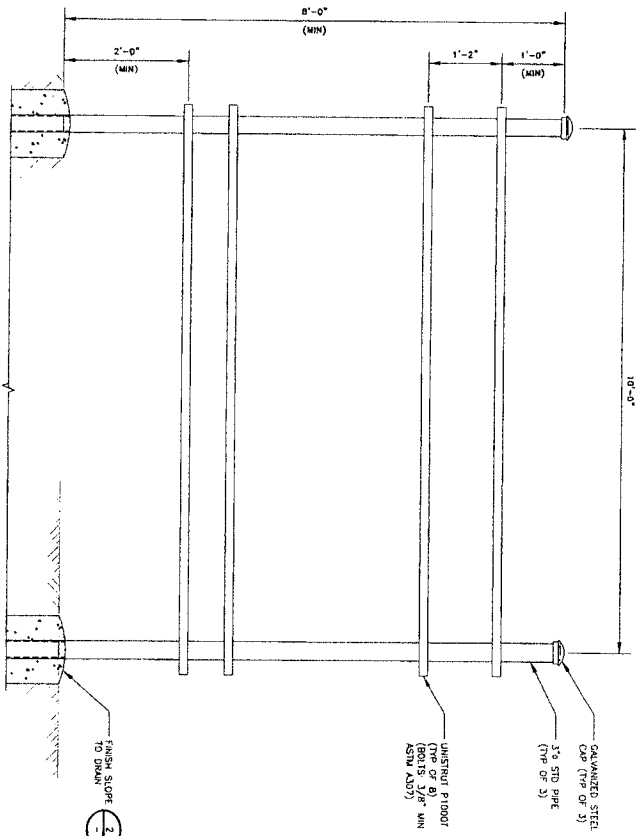
1



H-FRAME BASE PLATE DETAIL

NO SCALE

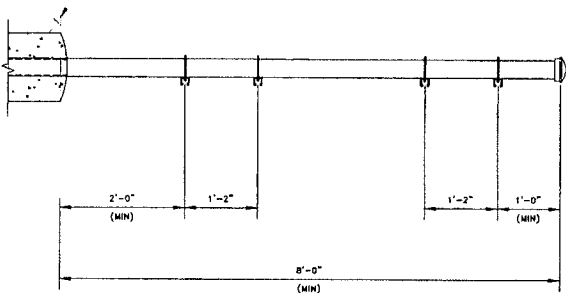
2



H-FRAME ELEVATION

NO SCALE

3



H-FRAME SIDE ELEVATION DETAIL

NO SCALE

4



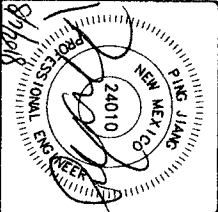
4321 FARM, NE
ALBUQUERQUE, NM 87111



BLACK & VEATCH
BLACK & VEATCH CORPORATION
8800 S LAS VEGAS, NV 89123
LAS VEGAS, NV 89123

PROJECT NO: 197858
DRAWN BY: ENI
CHECKED BY: MB

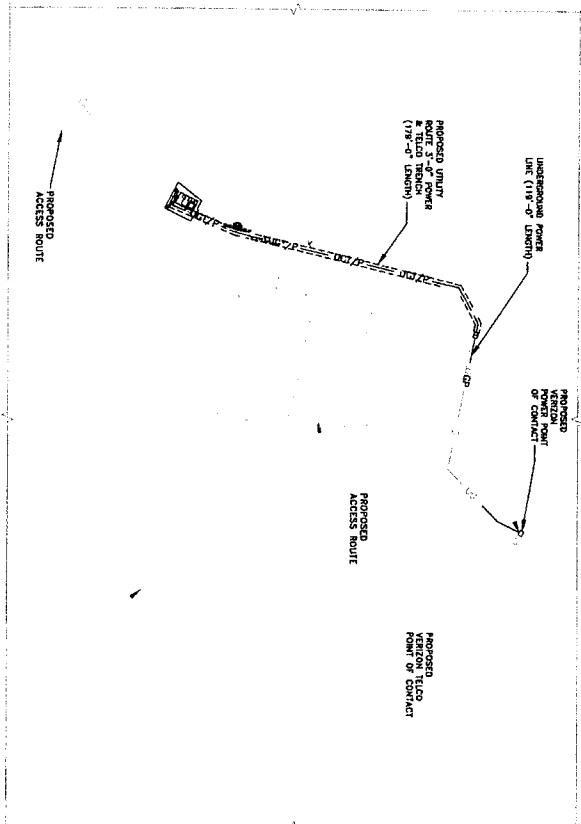
REV	DATE	DESCRIPTION
1	08/07/16	MARK CHANGES
2	08/20/16	WORK TO



NM4 - FT MARCOS
VZM #: 20181747224
200 MORALES ROAD
SANTA FE, NM 87501
NSB

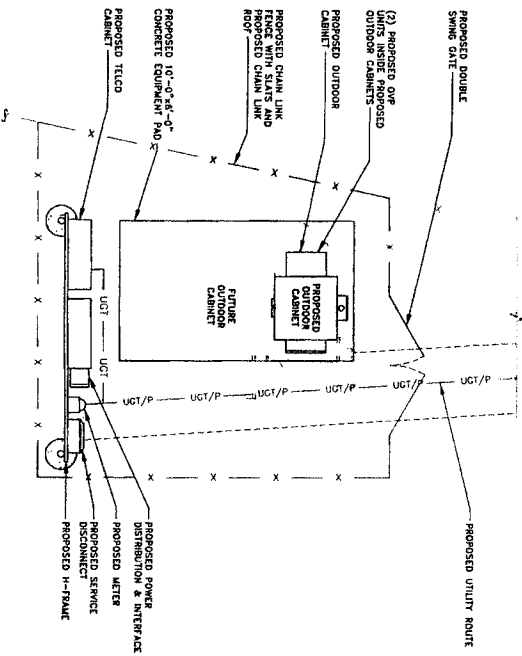
EQUIPMENT DETAILS

SHEET NUMBER
C8



ELECTRICAL PLAN

31	24	18	8	0	32	64
1/2" = 1'-0"						
1						



ELECTRICAL EQUIPMENT LAYOUT

13	2	4	1	8	0	32	64
3/8" = 1'-0"							
2							



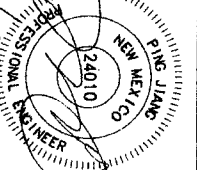
4821 ERIKIN NE
ALBUQUERQUE, NM 87111



BLACK & VEATCH
BLACK & VEATCH CORPORATION
6835 S EASTERN AVENUE, SUITE 325
LAS VEGAS, NV 89123

PROJECT NO: 197554
DRAWN BY: ERI
CHECKED BY: JAB

REV	DATE	DESCRIPTION
1	06/07/18	ISSUED COMMENTS
2	06/26/18	WORK CD

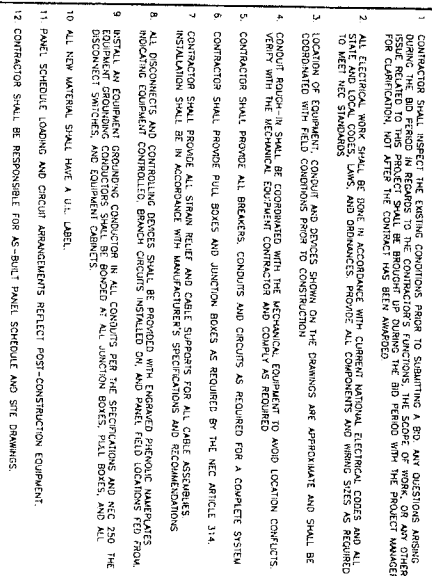


8/2/2018
PING JIANG
NEW MEXICO
24010
REGISTERED PROFESSIONAL ENGINEER

NM4 - FT MARCYS
VZW #: 20181747224
200 MURALES ROAD
SANTA FE, NM 87501
NSB

SHEET TITLE
ELECTRICAL PLAN &
ELECTRICAL EQUIPMENT LAYOUT

SHEET NUMBER
E1

[illegible]

verizon
4821 EUBANK NE
ALBUQUERQUE, NM 87111

8/14/28

IS IT A VIOLATION OF LAW FOR ANY PERSON, FIRM OR CORPORATION TO OBTAIN OR OBTAINING A LICENSED PROFESSIONAL ENGINEER TO SEAL HIS DOCUMENT?

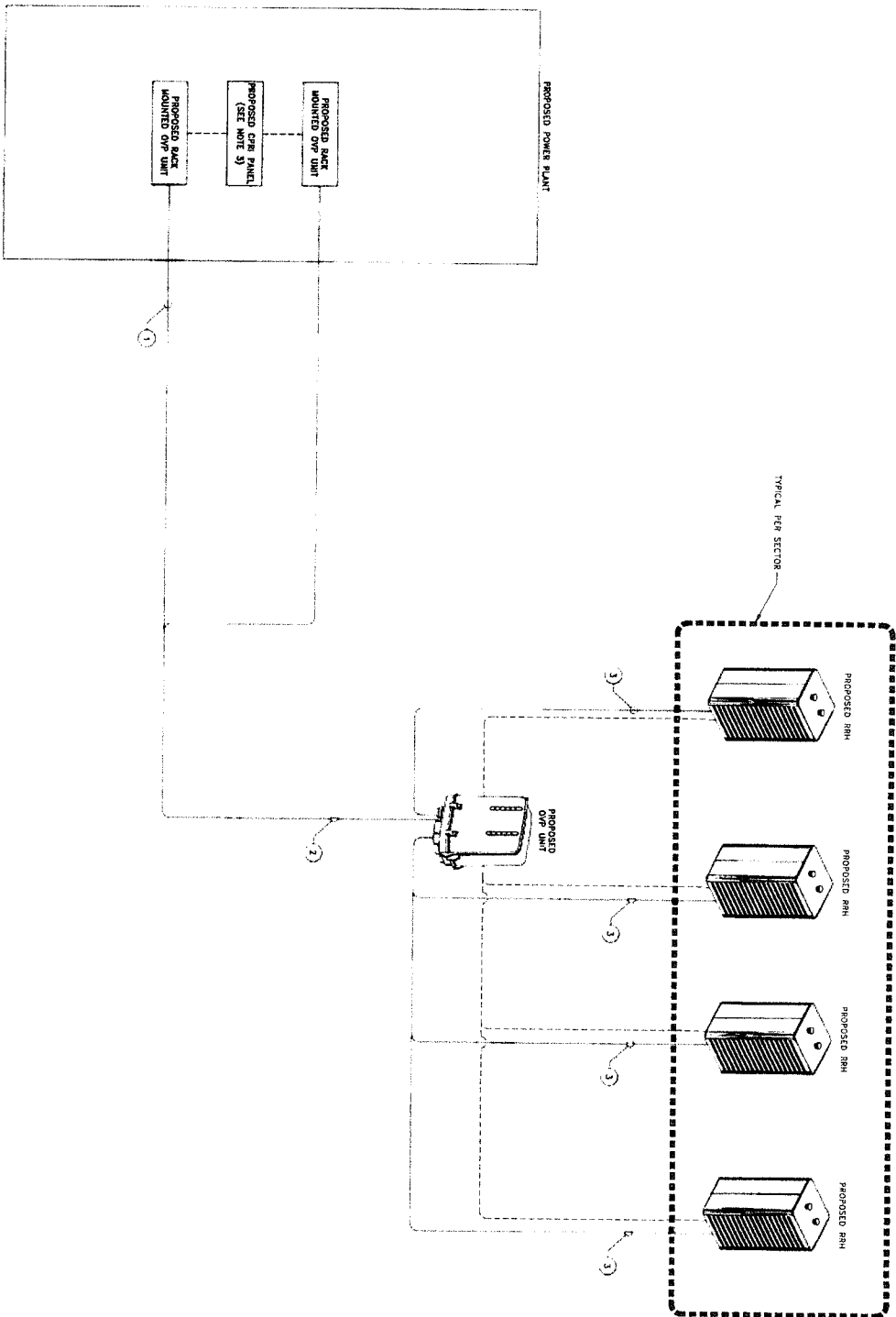
NEW MEXICO
24010
PROFESSIONAL ENGINEER
J. L. Williams

E2

DC CIRCUIT SCHEDULE			
NO.	FROM	TO	CONFIGURATION
1	PROPOSED -48VDC DISTRIBUTION PANEL	PROPOSED BACK MOUNTED OVP UNIT	(12) 1-#10 TELECOMPLEX III DC CABLE
2	PROPOSED BACK MOUNTED OVP UNIT	PROPOSED OVP UNIT	(2) M8BIB FLEX CABLE
3	PROPOSED OVP UNIT	PROPOSED RBH	(1) 2-#12 (MINIMUM) TRAIL/THRU/IN-1 TYPE TC-CR IN DC POWER WIRING 2 INCH AND CLOSER SHALL BE TELECOMPLEX IV

NOTES

- DC POWER WIRING SHALL BE COCON COATED AT EACH END FOR IDENTIFYING BLUE WIRING SHALL IDENTIFY "48V" AND RED WIRING SHALL IDENTIFY "48V"
- NOTIFY OF POWER WIRING SIZE 14 AWG TO 10 AWG SHALL BE TELECOMPLEX IV
- PROPOSED FEEDER CABLES TO BE ROUTED THROUGH CFB PANEL FROM RBH.



ELECTRICAL DC ONE-LINE DIAGRAM

NO SCALE



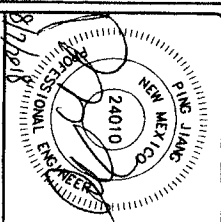
401 GARDEN ST.
ALBANY, NY 12206



BLACK & VEATCH
BLACK & VEATCH CORPORATION
300 S. 1ST AVE., SUITE 300
LAS VEGAS, NV 89101

PROJECT NO. 197854
DRAWN BY: EKI
CHECKED BY: MB

REV	DATE	DESCRIPTION
1	06/07/16	ISSUED FOR CONSTRUCTION
2	06/07/16	ISSUED FOR CONSTRUCTION



NM4 - FT MARCOS
VZM #: 20181741224
200 MURALES ROAD
SANTA FE, NM 87501
NSB

SHEET TITLE
ELECTRICAL DC ONE-LINE
& SCHEDULE

SHEET NUMBER
E3

- ELECTRICAL CONNECTION
- MECHANICAL CONNECTION
- |— GROUND ROD

LEGEND



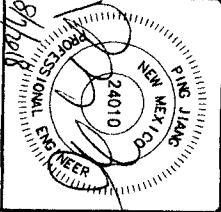
4871 DUBANK, NE
ALBUQUERQUE, NM 87111



BLACK & VEATCH
BLACK & VEATCH CORPORATION
8945 S. EASTERN AVENUE, SUITE 125,
LAS VEGAS, NV 89123

PROJECT NO. 197555
DRAWN BY: ENI
CHECKED BY: MB

REV.	DATE	DESCRIPTION
1	08/07/18	ISSUED COMMENTS
2	08/28/18	ISSUED COMMENTS
3	08/28/18	ISSUED COMMENTS
4	08/28/18	ISSUED COMMENTS
5	08/28/18	ISSUED COMMENTS
6	08/28/18	ISSUED COMMENTS
7	08/28/18	ISSUED COMMENTS
8	08/28/18	ISSUED COMMENTS
9	08/28/18	ISSUED COMMENTS
10	08/28/18	ISSUED COMMENTS

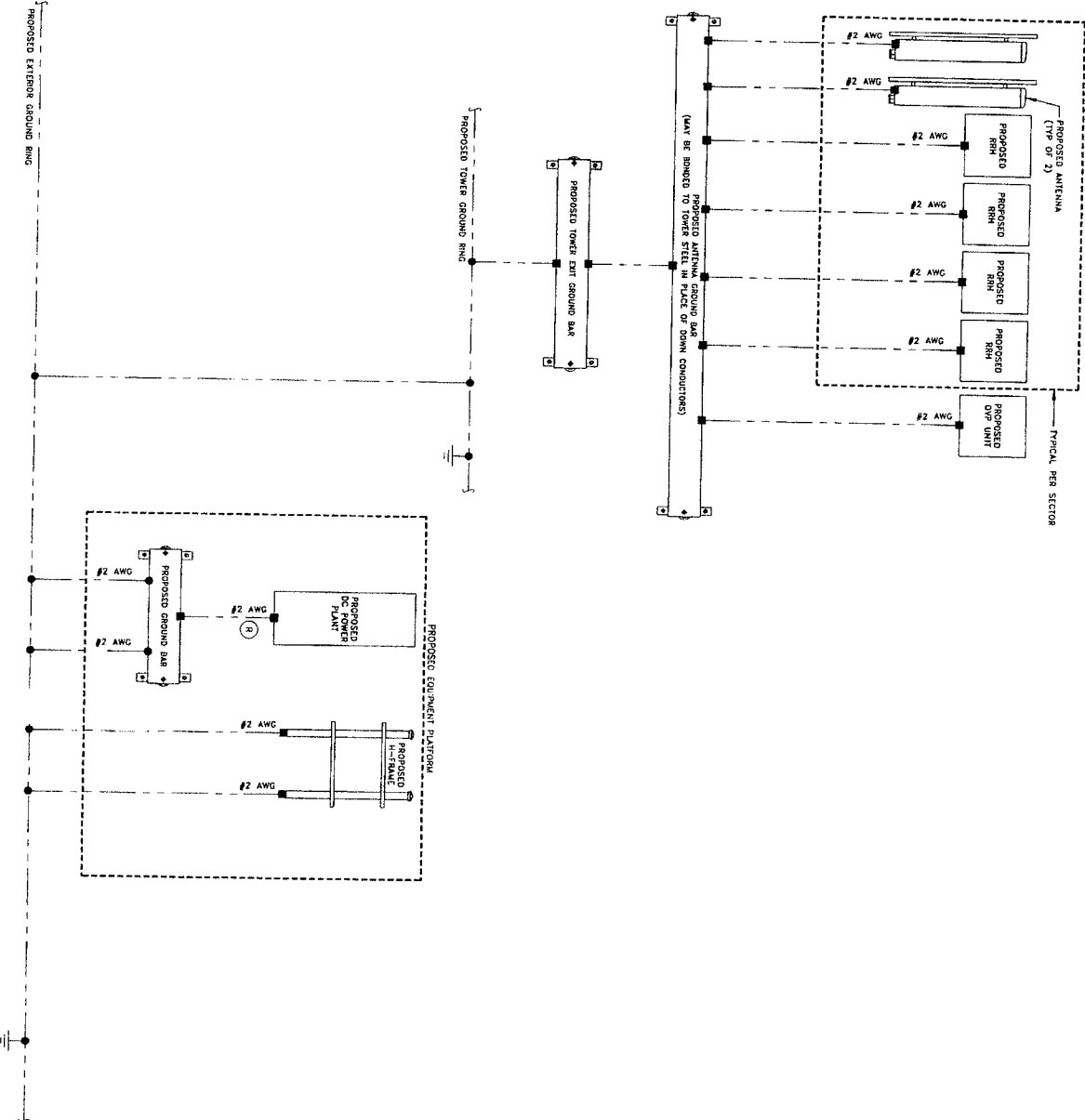


IT IS A VIOLATION OF LAW FOR ANY PERSON TO REPRODUCE OR TRANSMIT ANY INFORMATION OF A LICENSED PROFESSIONAL ENGINEER TO ANY OTHER PERSON WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
8/1/2018

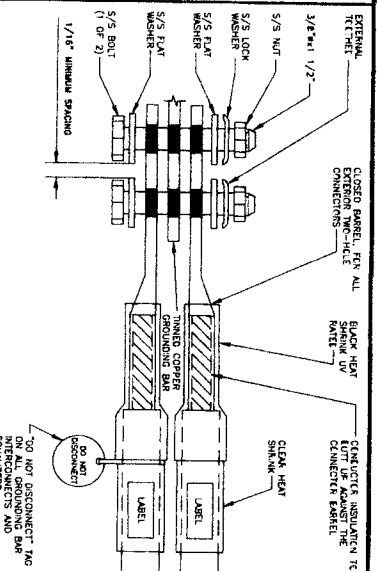
NM4 - FT. MARCOS
VZW #: 20181747224
200 MURRAIS ROAD
SANTA FE, NM 87501
NSB

SHEET TITLE
GROUNDING ONE-LINE
& NOTES
SHEET NUMBER
E4

TOWER ANTENNA EQUIPMENT GROUNDING ONE-LINE



NO SCALE

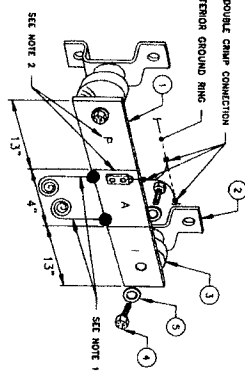


NO SCALE

[illegible]

2. EXOTHERMICALLY WELD #2 AWG BARE TINNED SOLID COPPER CONDUCTOR TO GROUND BAR. ROUTE CONDUCTOR TO BUREAU GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.

-
3. GROUND RING SHALL BE EMPLOYED PER PERSON SPECIFICATIONS TO PREVENT THEFT



3TMS ON SCALE

PROJECT NO. 197956

DRAWN BY: EKI

CHECKED BY: MD

BLACK & VEATCH

BLACK & VEATCH CORPORATION
 1985 S. EASTERN AVENUE, SUITE 325,
 LOS ANGELES, CA 90001

VERIZON

4821 EUBANK, NE
 ALBUQUERQUE, NM 87111

GROUNDING DETAILS

SHEET TITLE

SHEET NUMBER

E5

NEW MEXICO

REGISTERED PROFESSIONAL ENGINEER

26010

8/29/2018

ITEM NO.

DESCRIPTION

QTY

UNIT

DATE

REVISION

1. 08/29/18 MARKET CONDUITS

2. 08/29/18 100K CO.

GROUNDING DETAILS

SHEET TITLE

SHEET NUMBER

E5

GROUNDING DETAILS

SHEET TITLE

SHEET NUMBER

E5

GROUNDING DETAILS

SHEET TITLE

SHEET NUMBER

E5