

SITE LEASE AGREEMENT

Between Board of Water Commissioners of the City of Saint Paul and VERIZON WIRELESS (VAW) LLC D/B/A VERIZON WIRELESS

This Lease Agreement ("Lease") is entered into this 13th day of February, 2018, between the **BOARD OF WATER COMMISSIONERS OF THE CITY OF SAINT PAUL**, a Minnesota municipal corporation ("Lessor"), and, **VERIZON WIRELESS (VAW) LLC D/B/A VERIZON WIRELESS**, a Delaware limited liability company, ("Lessee").

In consideration of the terms and conditions of this Lease, the parties agree as follows:

1. Leased Premises.

(a) Lessor hereby leases to Lessee certain space located at and on Lessor's Cottage Avenue Standpipe site, located at 2095 Clear Avenue East, Saint Paul, Minnesota 55119, and legally described in Exhibit "A" *Legal Description*. The water storage facility and its appurtenances ("Structure"), and the Lessor's land upon which the Structure is situated are collectively called ("the Property"). The property interest leased and granted by the Lessor to Lessee (collectively, the "Leased Premises") consists of the following:

- (1) ground space comprised of approximately 225 square feet, subject to any and all existing easements;
- (2) structure exterior space for attachment of antennas at alpha, beta & gamma sectors at 83 FAGL;
- (3) space required for cable runs to connect equipment and antennas;
- (4) non-exclusive easements required to run utility lines and cables;
- (5) non-exclusive easement across the Property for access.

(b) No other space or property interests are being leased to Lessee except as described above and as described on Exhibit "A" *Legal Description*.

2. Terms/Renewals.

(a) The initial term of this Lease shall commence on March 12, 2018 (the "Commencement Date"), and shall expire on December 31, 2023. Lessee and Lessor agree to enter into a memorandum confirming the Commencement Date, as contained in Exhibit "F" *Memorandum of Lease Recording*.

(b) Lessee shall have the right to extend this Lease for three (3) additional five (5) year terms (each a "Renewal Term") subject to (c) below. Notwithstanding the foregoing this lease shall not extend beyond March 11, 2038.

- (c) This Lease shall automatically be renewed for each successive Renewal Term unless Lessee is in default beyond applicable notice and cure periods of any of the terms or conditions of this Lease, or unless Lessee provides Lessor with written notice of its intention not to renew not less than thirty (30) days prior to commencement of the succeeding Renewal Term.

3. Rent.

- (a) Lessee shall make all payments of rent to Lessor at the following address or until otherwise notified of a change in address:

Board of Water Commissioners
Attn: SPRWS Accounting
1900 Rice Street, Office Building
Saint Paul, Minnesota 55113

- (b) Lessor's FIN number is # 41-6005521.
- (c) Lessee shall pay rent annually in advance, as indicated in the payment schedule below:
- (1) Lessee shall pay Lessor, as rent, the sum of \$54,500.00 per year plus annual escalator described in Section 3(c)(4) based upon Lessee's installation and operation of the antenna facilities and frequencies identified in Exhibit "D" *Antenna Facilities and Frequencies*, ("Antenna Facilities").
 - (2) The first year's rent shall be pro-rated to the end of 2018 based on the Commencement Date and shall include a one-time administrative fee of Two Thousand Five Hundred Dollars (\$2,500.00), and shall be paid within sixty (60) days after the Commencement Date. Thereafter, the rent due hereunder shall be paid on or before the fifth (5th) day of each January of each succeeding year.
 - (3) Lessee shall not install and/or operate any additional antennas or related equipment beyond those Antenna Facilities and frequencies identified in Exhibit "D" *Antenna Facilities and Frequencies* without the prior written consent of Lessor, such consent not to be withheld, conditioned or delayed without cause. Such additional equipment may require an amendment to the Lease and increase in rent, as may be determined by Lessor. However, changes made exclusively to frequencies shall not require an amendment and shall not constitute grounds for revision of rent. Notwithstanding, Lessee has the right to perform routine maintenance and repairs without Lessor's approval.
 - (4) Commencing January 1, 2019, and on January 1st of each subsequent year, the rent shall be increased annually by four percent (4%).

4. Engineering Studies

(a) Structural Study

Prior to modifying the existing Antenna Facilities to increase the weight load on the Structure, Lessee must obtain an engineering study carried out by a qualified engineer, showing that the Structure is able to support the additional Antenna Facilities. If the study finds that the Structure is inadequate to support the proposed antenna loads, Lessee may not perform such modifications unless Lessee agrees to make structural modifications to the Structure in order to support the additional load.

(b) Interference Study

Prior to modifying the existing antennas or frequencies at the Leased Premises, Lessee must obtain a radio frequency interference study carried out by an independent professional radio frequency engineer ("RF Engineer") showing that Lessee's intended use will not interfere with any existing communications facilities located on the structure. RF Engineer shall provide said evaluation no later than thirty (30) days after frequencies are provided by Lessee. Lessee shall provide Lessor with a copy of a satisfactorily completed RF evaluation prior to transmitting or receiving radio waves at the Property.

5. Use of Leased Premises.

(a) Primary Use of Property

The primary use and purpose of the Property, including the Leased Premises, is for a water storage structure and appurtenances to provide water service to customers of the Lessor ("Primary Use"). Lessor's operations in connection with pursuit of the Primary Use ("Lessor's Operations") take priority over Lessee's operations.

(b) User priority

Lessee agrees that the following priorities of use, in descending order, shall apply in the event of communication interference, emergency public safety needs, or other conflict while this Lease is in effect, and Lessee's use shall be subordinate accordingly:

- (1) Lessor;
- (2) Public safety agencies, including law enforcement, fire, and ambulance services, that are not related to Lessor;
- (3) Other governmental agencies where use is not related to public safety;
- (4) Pre-existing lessees (defined as lessees that installed equipment prior to Lessee's original installation of equipment pursuant to the March 10, 1998 lease);
- (5) Lessee.

(c) Jeopardy of Primary Use

- (1) In the event that the Lessor's Primary Use of the Structure is put at risk because of Lessee's operations ("Jeopardy"), Lessor shall provide written notice of such event to Lessee. Lessor and Lessee agree to work together to cure the occurrence that causes

the Jeopardy. Lessee shall make all good efforts to cure the Jeopardy within thirty (30) days of receipt of written notice of event. If Lessee does not cure the Jeopardy within thirty (30) days of receipt of written notice of event, said occurrence of Jeopardy shall constitute an event of default by Lessee, as otherwise defined in *Section 14. Termination*. If circumstances beyond the control of Lessee prohibit the Jeopardy from reasonably being cured within thirty (30) days, Lessee shall notify Lessor of such circumstances and commence actions required to cure the Jeopardy (e.g. assessing the problem, ordering necessary equipment) within seven (7) days of Lessor's written notice of Jeopardy and shall diligently pursue the cure to completion within a reasonable time thereafter.

- (2) In the event of Jeopardy that poses an immediate threat of substantial harm or damage to the water supply, to persons, and/or property on the Leased Premises, as solely determined by Lessor ("Severe Jeopardy"), Lessor may enter the Leased Premises and take actions it determines are required to protect the water, individuals or personal property from such Severe Jeopardy; provided that promptly after such emergency entry onto the Leased Premises, and in no event later than twenty-four (24) hours after such entry, Lessor gives written notice to Lessee of Lessor's emergency entrance.
- (3) If Lessor determines that the conditions of a Severe Jeopardy would be benefited by cessation of Lessee's operations, Lessee shall immediately cease its operations on the Premises upon notice from Lessor to do so and Lessee shall be permitted to terminate this Lease upon written notice to Lessor.

(d) Lessee's Use of Leased Premises

- (1) Lessee shall have the non-exclusive right, at its sole cost and expense, to use the Leased Premises for the transmission and reception of communications signals ("Approved Use").
- (2) In accordance with this Approved Use, the Lessee has the right to install, operate, maintain, repair, replace, store or remove its antennas, utility building, equipment, personal property, leasehold improvements, and appurtenances as shown in Exhibit "D" *Antenna Facilities and Frequencies* and Exhibit "C" *Construction Drawings*.
- (3) Lessee shall be responsible for all expenses incurred by the Lessor resulting directly from the use and/or occupancy of the Leased Premises by Lessee. Lessor shall submit an itemized invoice of such expenses to Lessee together with reasonable supporting documentation evidencing such expenses at the notice address set forth in Section 17 below and Lessee shall make payment to Lessor within sixty (60) days of receipt.

(e) Laws Governing Use

Lessee's Antenna Facilities and any other facilities shall be installed, maintained, and operated in accordance with all state or federal or local or municipal statutes, ordinances, rules, or regulations now in effect, or that hereafter may be issued by the Federal

Communications Commission ("FCC") or any other governing bodies which apply to Lessee's Approved Use of the Leased Premises.

6. Installation of Equipment and Leasehold Improvements.

(a) Construction Drawings

For the initial installation of all Antenna Facilities and for any and all subsequent revisions and/or modifications thereof, or additions thereto, Lessee shall provide Lessor and Lessor's Water Tower Construction Engineer ("Construction Engineer") each with comprehensive construction drawings ("Construction Drawings") consisting of the following:

- (1) line or CAD drawings showing location of all planned installations plus materials and construction methods;
- (2) specifications for all planned installations;
- (3) diagrams of Antenna Facilities for initial installation, and subsequently, diagrams of proposed antenna facilities for any and all revisions, modifications, or approved additions;
- (4) a complete and detailed inventory of all proposed equipment and personal property of Lessee to be placed on the Leased Premises. Lessor retains the right, at its sole cost and expense, to survey such equipment and personal property.

(b) Construction Drawings shall be easily readable and subject to prior written approval by the Construction Engineer, which shall not be withheld, conditioned or delayed without cause. Lessor shall have thirty (30) business days to review and comment on the Construction Drawings. Lessor, on behalf of itself and the Construction Engineer, hereby approves of the Construction Drawings for the existing Antenna Facilities.

(c) Lessee shall be solely responsible for all costs associated with said review and approval of Construction Drawings by Construction Engineer ("Review Fee") for the review of the Construction Drawings for each subsequent revision, modification, or approved addition to the Antenna Facilities.

(d) Construction Scheduling

At least five (5) days prior to Lessee's construction mobilization, Lessee shall conduct a pre-construction meeting on the Property or other location as determined by Lessor. Said meeting shall be attended by the Construction Engineer, Lessee's representative and all contractors involved in the installation.

(e) Construction Inspection.

All construction activity for any and all subsequent revisions and/or modifications to the Antenna Facilities, or additions thereto shall be subject to inspection and approval by the Construction Engineer to ensure compliance with the approved Construction Drawings and the terms of this Lease. Inspection will be performed beginning with the pre-construction meeting and continuing through installation/construction/punch-list and

verification of as-built drawings at project completion as determined by Lessor. Lessee agrees to pay for the cost of said inspections and project documentation ("Inspection Fees"). Lessor shall submit an itemized invoice of such Inspection Fees to Lessee at the notice address set forth in Section 17 below together with reasonable supporting documentation evidencing such fees and Lessee shall make payment to Lessor within sixty (60) days of receipt. If deemed necessary by the Construction Engineer, construction work performed without approval of the Construction Engineer will not be accepted and shall be removed or uninstalled at Lessee's sole expense, provided Lessor or the Construction Engineer notifies Lessee of such non-compliance within thirty (30) days of submission of as-built drawings to Lessor.

(f) Escrow

Prior to performing subsequent revisions and/or modifications to the existing Antenna Facilities or additions thereto, Lessee agrees to pay an escrow amount equal to the estimated costs of Review Fees and Inspection Fees as determined by Lessor for any and all such subsequent revisions and/or modifications thereof, or additions thereto, prior to commencement of such activities. If the escrow amount is insufficient for these expenses, Lessee agrees to pay the additional costs within forty-five (45) days of receipt of a detailed invoice from Lessor at the notice address set forth in Section 17 below together with reasonable supporting documentation evidencing such costs.

(g) Exposed Antenna Facilities

All new and existing Antenna Facilities and coaxial cables affixed to the Structure which have exterior exposure shall be as close to the color of the Structure as is commercially available to the Lessee. For exposed coaxial cables that Lessee desires to install after the Commencement Date of this Agreement, Lessor reserves the right to require Lessee to provide cables in manufactured colors in lieu of painting.

(h) Damage by Lessee

Any damage to the Property, Leased Premises, or Lessor's equipment thereon caused by Lessee's installation or operations shall be repaired or replaced at Lessee's expense and to Lessor's reasonable satisfaction.

(i) As-built drawings

Within thirty (30) days after Lessee activates any Antenna Facilities, Lessee shall provide Lessor with a Site Plan in electronic file format compatible with Lessor's record file system consisting of as-built drawings of the Antenna Facilities and the improvements installed on the Property, which shall show the actual location of all equipment and improvements. Said drawings shall be accompanied by a complete and detailed site survey of the property, inventory of all equipment, personal property, and Antenna Facilities.

7. Modifications.

- (a) Before the Lessee may update or replace the Antenna Facilities, Lessee must provide a detailed proposal to Lessor. The proposal shall include any information reasonably requested by Lessor of such requested update or replacement, including but not limited to

revised lease exhibits as may be necessary, construction drawings and specifications as may be required under *Section 6. Installation of Equipment and Leasehold Improvements*, and engineering studies as may be required under *Section 4. Engineering Studies* of this Lease, carried out at Lessee's expense. The proposal must be approved by Lessor, which will not unreasonably withhold approval.

- (b) Lessee shall provide at least thirty (30) days written notice to Lessor before modifying frequencies on the Leased Premises. Said notice shall describe all equipment and frequencies proposed to be added or modified and shall be subject to evaluation by a RF Engineer approved by Lessor, which shall not be withheld, conditioned or delayed without cause. Said review shall consist of necessary interference studies to ensure that the modified or additional frequencies will not cause harmful radio interference to Lessor's Operations or the operations of Lessor's existing tenants. Lessee shall pay all costs for any such interference studies. In the alternative, Lessee may perform the interference studies and submit the results to the Lessor for review and approval.
- (c) If Lessee seeks to increase the number of antennas and/or associated transmitting accessories, and such installation shall exceed the requirements or standard discussed in the engineering report as required by Section 4.(a), then Lessee must obtain an engineering study carried out by a qualified professional demonstrating that the Structure can structurally support the additional accessories.
- (d) As-built drawings
Within thirty (30) days after Lessee activates the modified Antenna Facilities, Lessee shall provide Lessor with a Site Plan in electronic file format compatible with Lessor's record file system consisting of as-built drawings of the Antenna Facilities and the improvements installed on the Property, which shall show the actual location of all equipment and improvements. Said drawings shall be accompanied by a complete and detailed site survey of the property, inventory of all equipment, personal property, and Antenna Facilities. By its signature below, Lessor acknowledges receipt of the foregoing Site Plan, site survey and inventory in the form required by this Section.

8. Maintenance and Repairs.

(a) Property

- (1) Lessor reserves the right to take any action it deems necessary, in its sole and reasonable discretion, to repair, maintain, alter, or improve the Property in connection with Lessor's Operations.
- (2) Lessor agrees to provide Lessee with thirty (30) days advance notice of such actions that may directly affect Lessee's operations, and to reasonably cooperate with Lessee to carry out such activities in a manner that minimizes interference with Lessee's Approved Use.

(b) Structure Reconditioning and Repairs

- (1) From time to time, Lessor paints, reconditions, or otherwise improves or repairs the Structure in a substantial way ("Reconditioning Work"). Lessor shall reasonably cooperate with Lessee to carry out Reconditioning Work activities in a timely manner and in a manner that minimizes interference with Lessee's Approved Use.
- (2) Prior to commencing Reconditioning Work, Lessor shall provide Lessee with not less than ninety (90) days prior written notice thereof. Upon receiving such notice, it shall be the sole responsibility of Lessee to provide adequate measures to cover or otherwise protect Lessee's Antenna Facilities from the consequences of such activities, including but not limited to paint and debris fallout. Lessor reserves the right to require Lessee to temporarily remove all Antenna Facilities from the Structure and Leased Premises during Reconditioning Work.
- (3) During Lessor's Reconditioning Work, Lessee may maintain a mobile site on the Property or, after approval by Lessor, on any land owned or controlled by Lessor in the immediate area of the Property. If Property will not accommodate mobile equipment, it shall be Lessee's responsibility to locate auxiliary sites.
- (4) Lessee may request a modification of Lessor's procedures for carrying out Reconditioning Work in order to reduce the interference with Lessee's Approved Use. If Lessor agrees to the modification, Lessee shall be responsible for all incremental cost related to the modification.

(c) Leased Premises

Lessee shall, at its own cost and expense, maintain the Antenna Facilities in good and safe condition, and in compliance with applicable fire, health, building, and other life safety codes applicable to Lessee's Approved Use of the Leased Premises.

9. Property Access.

Access to the Property, including the Leased Premises, by outside persons, including Lessee's employees, agents and assigns, shall at all times be governed by Lessor's Security Plan, as may be revised from time to time and provided to Lessee in writing, in advance, with the most recent Plan being attached hereto and incorporated herein as Exhibit "E" *Security Plan*. Lessee agrees it shall conduct its operations on the Property and the Leased Premises in accordance with all requirements and conditions of said Security Plan. Subject to said requirements and conditions of said Security Plan, Lessee and Lessor agree to the following:

- (a) At no additional charge to Lessee, Lessee shall have access to the Leased Premises and Property, for any purpose relating to this Lease, twenty-four (24) hours a day, seven (7) days a week by means of existing access, as shown on Exhibit "B" *Site Survey*.
- (b) Lessee may, at its own cost and expense, enter upon the Property to study and determine the Property's suitability for any other use of Lessee, which studies may include surveys, radio wave propagation measurements, or field strength tests.

- (c) Lessor retains the right to examine and inspect the Leased Premises for safety reasons and to ensure Lessee's compliance with the terms of this Lease. Lessor shall be liable for, and hold harmless Lessee from, any damage to the Leased Premises or to Lessee's equipment and Antenna Facilities caused by Lessor in exercising its right to examine and inspect the Leased Premises.
- (d) At Lessee's sole cost and expense, Lessee has the right to obtain a title report or commitment for a leasehold time policy from a title company of its choice and to have the Property surveyed by a surveyor of its choice.

10. Utilities.

Lessor makes no representations that utilities adequate for Lessee's use of the Leased Premises are available. Lessee shall be responsible for the cost of all utilities installed and used by it at the Leased Premises. Lessor will cooperate with Lessee in Lessee's efforts to obtain utilities from any location provided by the servicing utility.

11. Personal Property and Real Estate Taxes.

If any of Lessee's improvements constructed on the Leased Premises should cause the Property, or any portion of it, to be taxed for real estate purposes, it shall be the liability of Lessee to pay that portion of such property taxes directly attributable to Lessee's equipment, provided Lessor shall give Lessee prior written notification of such taxes so that Lessee will have the opportunity to appear before the taxing authority to contest such taxes. Notwithstanding Lessee's right to contest such taxes, Lessee shall pay its share of such taxes within ninety (90) days of receiving notice of the same.

12. Certificates, Permits, Zoning, and other Approvals.

Lessee's use of the Leased Premises herein is contingent upon its obtaining all certificates, permits, zoning, and other approvals that may be required by any federal, state or local authority, including but not limited to an engineering study and a radio frequency interference study. Lessee shall, at its sole cost and expense, obtain all such necessary permits, licenses and other approvals and Lessor agrees to cooperate with Lessee in Lessee's pursuit of all such necessary permits, licenses or approvals, and Lessee shall reimburse Lessor its reasonable costs to provide such cooperation.

13. Interference.

- (a) In the performance of its Approved Use, Lessee shall not damage or interfere with Lessor's Operations, including its radio frequency transmissions, or approved operations of other parties that were in place on the Property prior to the Commencement Date of this Lease, provided that the equipment used by Lessor or other lessees is operating within the technical parameters specified by its manufacturer and/or as defined by the FCC. In the event of any such interference, Lessee shall immediately cease such interference, except for brief tests necessary for the elimination of the interference and until Lessee is able to resolve the problem. In the event Lessee cannot correct the

interference, Lessee shall have the option to terminate this Lease, pursuant to *Section 14. Termination*. Lessee shall not be responsible for interference that results from a change in the operations of other tenants after the Commencement Date of this Lease.

- (b) Lessee acknowledges that Lessor may lease the Property, or any part of it, to other parties in close proximity to the Leased Premises, and Lessee agrees to work cooperatively with any such other parties, using accepted technical standards in accordance with FCC standards, to ensure that such other parties' use and Lessee's use will be compatible and will not cause interference with each other.
- (c) Lessor in no way guarantees to Lessee noninterference with Lessee's transmission operations provided, however, that in the event that any other party requests permission to place any type of additional antenna or transmission facility on the Property, the procedures of this Section shall govern to determine whether such antenna or transmission facility will interfere with Lessee's transmission operations.
- (d) In the event that Lessee or other tenants on the Property experience interference of their FCC-approved frequencies and they cannot reach agreement as to the cause and remedy of such interference, an RF Engineer approved by the Lessor shall determine such cause and remedy and Lessee shall abide by the RF Engineer's determination, subject to Lessee's right to terminate this Lease.

14. Termination.

- (a) Except as provided in Section 14.(a)(3)b. below, or as otherwise provided herein, this Lease may be terminated by either party upon sixty (60) days written notice to the other party for the following reasons:
 - (1) By either party, upon a material default of any other covenant or term hereof by the other party; which default is not cured within sixty (60) days of receipt of written notice of default to the other party (without, however, limiting any other rights of the parties at law, in equity, or pursuant to any other provisions hereof), or if such cure cannot be completed within sixty (60) days, within such reasonable time as may be required, provided the defaulting party commences the cure within ten (10) days of receipt of written notice of default and diligently pursues such cure to completion;
 - (2) By Lessee, in the event that:
 - a. Lessee is unable to obtain or maintain any license, permit, or other governmental approval necessary for the construction and/or operation of the Antenna Facilities;
 - b. the Leased Premises are or become unusable under Lessee's design or engineering specifications for its Antenna Facilities, or the communications system to which the Antenna Facilities belong; or
 - c. Lessee's transmission is interfered with by Lessor or its other tenants' equipment. Such right to terminate shall become void if Lessor cures such interference within thirty (30) days of receipt of written notice.
 - d. If the Property or any portion thereof is destroyed or damaged so as to hinder its effective use, Lessee may elect to terminate this Lease upon thirty (30) days

(3) By Lessor, in the event that:

- 15. Insurance.***

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Including Premises-Operations and Products/Completed operations

(2) Automobile Insurance

- a. Bodily Injury and Property Damage \$2,000,000 combined single limit
- b. Coverage shall be provided by Bodily Injury and Property Damage for the ownership, use, maintenance or operation of all owned, non-owned and hired automobiles.

(3) Workers' Compensation and Employer's Liability

- a. Workers' Compensation per Minnesota Statute
- b. Employer's Liability shall have minimum limits of:
 - 1. \$500,000 per accident;
 - 2. \$500,000 disease – each employee
 - 3. \$500,000 disease- policy limit
- (b) Lessee shall provide Lessor, prior to the Commencement Date and, and annually thereafter prior to expiration date of the same, evidence of the required insurance in the form of a certificate of insurance issued by an insurance company legally licensed, authorized or permitted to do business in the State of Minnesota, which includes all coverage required in Section 15.(a) above.
- (c) Policies are to be written on an occurrence basis. Upon receipt of notice from its insurer(s) Lessee shall use commercially reasonable efforts to provide Lessor with thirty (30) days' prior written notice of cancellation.
- (d) Additional Insured – Certificate of Insurance.
The Lessor and the City of Saint Paul shall be included as additional insured as their interest may appear under this Lease, and shall provide that it will be the primary coverage.

16. Indemnity.

Lessee agrees to indemnify, defend, save, and hold harmless Lessor and the City of Saint Paul, and/or any agents, officers or employees thereof from all claims, demands, actions, or causes of action of whatsoever nature or character, arising out of, or by reason of, the leasing of the Leased Premises by the Lessor to Lessee, or arising out of, or by reason of, the use or condition of the Leased Premises, or as a result of Lessee's operations or business activities taking place on the Leased Premises or Lessee's breach or uncured default under any provision of this Lease, provided the same is not due to the contributory negligence or willful misconduct of the Lessor, the City of Saint Paul and/or any agents, contractors, officers, or employees thereof. It is fully understood and agreed that Lessee is aware of the conditions of the Leased Premises and leases the same "as is".

17. Notices.

All notices, requests, demands, and other communications hereunder shall be in writing and shall be deemed to have been duly given (a) when delivered in person, (b) upon receipt after dispatch by registered or certified mail or (c) on the next Business Day if transmitted by national overnight courier (with confirmation of delivery) to the following addresses:

If to Lessor: Board of Water Commissioners
 Attn: General Manager
 1900 Rice Street, Office Building
 Saint Paul, Minnesota 55113

If to Lessee, to: Verizon Wireless (VAW) LLC d/b/a Verizon Wireless
 180 Washington Valley Road
 Bedminster, New Jersey 07921
 Attention: Network Real Estate

18. Representations and Warranties.

- (a) Lessor represents that (i) it has full right, power, and authority to execute this Lease; (ii) it has good and unencumbered title to the Property free and clear of any liens or mortgages, subject to such liens of record; (iii) Lessee shall have quiet enjoyment of the Leased Premises during the term of this Lease in accordance with its terms.
- (b) Lessee warrants that the individuals signing and executing this Lease on behalf of Lessee have the requisite corporate power and authority to enter into and perform this Lease on behalf of Lessee. Lessor warrants that the individuals signing and executing this Lease on behalf of Lessor have the requisite corporate power and authority to enter into and perform this Lease on behalf of Lessor.
- (c) Lessor represents that it has no knowledge of any substance, chemical or waste on the Property that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation, as defined in Section 18.(d) of this Lease. Lessor will be solely liable for and will defend, indemnify and hold Lessee, its agents and employees harmless from and against any and all direct claims, costs and liabilities, including reasonable attorneys' fees and costs, arising out of or in connection with the removal, cleanup or restoration of the Property with respect to hazardous, toxic or dangerous materials from any and all sources other than those hazardous, toxic or dangerous materials introduced to the Property by Lessee. Lessee represents and warrants that its use of the Leased Premises herein will not generate and it will not store or dispose on the Property nor transport to or over the Property any hazardous substance, chemical or waste contrary to any applicable law or regulation. Lessee further agrees to hold Lessor harmless from and indemnify Lessor against any release of any such hazardous substance, and any damage, loss, expense, or liability resulting from the breach of this representation or from the violation of any applicable state or federal law by such release associated with Lessee's use of hazardous substances, including payment of all reasonable attorneys' fees, costs, and penalties incurred as a result thereof, except for any

release caused by the negligence or willful misconduct of Lessor, its employees, or agents.

- (d) "Hazardous substance" shall be interpreted broadly to mean any substance or material defined or designated as hazardous or toxic waste, hazardous or toxic material, hazardous or toxic or radioactive substance, or other similar term by any federal, state, or local environmental law, regulation or rule presently in effect or promulgated in the future, as such laws, regulations, or rules may be amended from time to time. Lessor acknowledges Lessee's use of batteries as back-up power and deems them acceptable as long as such batteries are used and disposed of in accordance with all applicable laws.

19. No Liability on Lessor.

Except due to Lessor's willful misconduct or negligence, Lessor shall not be liable for any damage to Lessee's equipment or Antenna Facilities, and Lessor shall not be liable for vandalism or malicious mischief caused by third parties, known or unknown, to Lessee's equipment or facilities, nor shall Lessor be liable for any lost revenue, business or profits of Lessee.

20. Assignment.

- (a) This Lease may be sold, assigned or transferred by Lessee without approval or consent of Lessor to Lessee's principal, affiliates, subsidiaries of its principal or to any entity which acquires all, or substantially all, of Lessee's assets in the market defined by the FCC in which the Property is located by reason of a merger, acquisition or other business reorganization. Lessee shall provide Lessor written notice of any such sale, assignment or transfer within sixty (60) days after the effective date thereof. As to other parties, this Lease may not be sold, assigned or transferred without the written consent of Lessor, which such consent shall not be unreasonably withheld, delayed or conditioned. No change of stock ownership, partnership interest or control of Lessee or transfer upon partnership or corporate dissolution of Lessee shall constitute an assignment hereunder.
- (b) The parties acknowledge that this is a nonexclusive lease. Nothing in this Lease shall preclude Lessor from leasing other space on the Property to any other person or entity which may be in competition with Lessee, or any other party, subject to the conditions set forth in *Section 13. Interference*.

21. Condemnation.

Lessor shall provide to Lessee notice of any condemnation proceedings within thirty (30) business days of receipt. In the event the whole of the Leased Premises is taken by eminent domain, this Lease shall terminate as of the date title to the Leased Premises vests in the condemning authority. In the event a portion of the Leased Premises is taken by eminent domain, either party shall have the right to terminate this Lease as of said date of title transfer, by giving thirty (30) days written notice to the other party. In the event of any taking under the power of eminent domain, Lessee shall not be entitled to any portion of the reward paid for the taking and the Lessor shall receive full amount of such award. Lessee hereby

expressly waives any right or claim to any portion thereof. Although all damages, whether awarded as compensation for a decrease in value of the leasehold or to the fee of the Leased Premises, shall belong to Lessor, Lessee shall have the right to claim and recover from the condemning authority, but not from Lessor, such compensation as may be separately awarded or recoverable by Lessee on account of any and all damage to Lessee's business and any costs or expenses incurred by Lessee in moving/removing its equipment, personal property, Antenna Facilities, and leasehold improvements.

22. Successors and Assigns.

This Lease shall run with the Property. This Lease shall be binding upon and inure to the benefit of the parties, their respective successors and assigns.

23. Surrender of Leased Premises.

- (a) All portions of the Antenna Facilities brought onto the Property by Lessee will be and remains Lessee's personal property and, at Lessee's option, may be removed by Lessee at any time during or after the term or extension thereof. In the event that this Lease is terminated or not renewed, Lessee shall have sixty (60) days from the termination or expiration date to quit peacefully and surrender possession of the Leased Premises in as good condition as when it was delivered to Lessee, reasonable wear and tear and casualty loss excepted. Lessee shall remove its equipment, personal property, Antenna Facilities, and leasehold improvements from the Property, and shall repair any damage to the Property caused by such equipment, all at Lessee's own cost and expense.
- (b) In the event that Lessee's Antenna Facilities and related equipment are not removed and the Property is not restored to the reasonable satisfaction of the Lessor within sixty (60) days from the termination or expiration date, the Lessor shall have the option to fully decommission the Antenna Facilities, have the Antenna Facilities removed, and repair the site and restore the property, and Lessee shall be responsible for the cost of such actions.

24. Marking and Lighting Requirements.

- (a) Lessor acknowledges that it shall be responsible, at its sole cost and expense, for compliance with all building marking and lighting requirements that the Federal Aviation Administration ("FAA") may require with respect solely to the height of the Structure. The responsibility, however, is expressly limited to the requirements that would be required of an elevated water storage facility having no communications equipment installed on it, irrespective of Lessee's Antenna Facilities. Lessor shall indemnify and hold harmless Lessee from any fines or other liabilities caused by Lessor's failure to comply with such requirements for an elevated water storage facility Structure. Further, should the FAA cite Lessor, or in the event any claims are brought against Lessor because the Structure alone is not in compliance, as opposed to the Structure with Antenna Facilities, then Lessor shall indemnify Lessee for full costs, liabilities, damages and expenses, including reasonable attorney's fees. Further, if Lessor does not cure the conditions of noncompliance on the Structure within the time frame allowed by the citing

agency, Lessee may terminate this Lease immediately without any further liability hereunder upon written notice to Lessor.

- (b) Lessee acknowledges that it shall be responsible at its sole cost and expense, for compliance with all building marking and lighting requirements that the FAA may require with respect to Lessee's Antenna Facilities. In the event the FAA determines that the Structure must be additionally marked, lighted, or in any way modified, due to the existence of Lessee's Antenna Facilities, Lessee shall have the option to mark, light or modify the Structure at its sole expense, or to terminate this Lease, pursuant to *Section 14. Termination*. Said marking, lighting and modifying shall be subject to prior written approval by Lessor, such approval not to be withheld without cause. Lessor shall approve or object to such plans within a reasonable period of time to allow timely compliance with FAA regulations.

25. RF Radiation Compliance.

- (a) An RF Engineer approved by the Lessor shall perform a radiation survey of the Property following Lessee's initial RF transmissions on the Leased Premises. Lessee shall be responsible for all costs of such survey.
- (b) Lessee shall implement all measures at the transmission site required by FCC regulations, including but not limited to posting signs and markings. Lessor shall cooperate with and permit Lessee to implement all reasonable measures in order for Lessee to fulfill its Radio Frequency exposure obligations. Lessor agrees that in the event any future party causes the entire site to exceed FCC Radio Frequency radiation limits, as measured on the Premises, Lessor shall hold such future party liable for all such later-arising non-compliance.

26. Third Party Approvals, Inspections and Evaluations.

The Lessee shall be responsible for all reasonable costs, as determined by Lessor, associated with obtaining required reviews, approvals, inspections, studies, surveys or evaluations, whether required by this Lease or by other governing authorities.

27. Noise Restrictions.

- (a) All wireless service facilities shall be constructed and operated in such a manner as to minimize the amount of noise impacts to residents of nearby homes and the users of recreational areas, such as public parks and trails. Proposed anticipated noise levels must be approved by Lessor. Plan review may require noise reduction measures.
- (b) Noise from Lessee's equipment shall not exceed the level allowed by the local jurisdiction ("Allowable Noise Level"), as measured at any location on neighboring property. Lessor will take noise level measurements from time to time to verify compliance. In the event it is found that Lessee's equipment exceeds the Allowable Noise Level, Lessor shall provide Lessee with written notice and Lessee shall take immediate steps to provide permanent reduction in the noise of its equipment to the Allowable Noise

Level. If Lessee does not so reduce its Measured Sound Level within sixty (60) days of receipt of written notice of event, said occurrence shall constitute an event of default as otherwise defined in *Section 14. Termination*.

- (c) Board reserves the right to require noise reduction measures necessary to reduce noise to a level determined solely by the Board.

28. Miscellaneous.

- (a) Each party agrees to furnish to the other, within thirty (30) days after notice of receipt of the request, such truthful estoppel information as the other party may reasonably request.
- (b) This Lease constitutes the entire agreement and understanding of the parties and supersedes any and all offers, negotiations, or other agreements of any kind with respect to its subject matter. There are no representations or understandings of any kind not set forth herein. Any modification of or amendment to this Lease must be in writing and executed by both parties. No provision of this Lease will be deemed waived by either party unless expressly waived in writing by the waiving party. No waiver shall be implied by delay or any other act or omission of either party. No waiver by either party of any provisions of this Lease shall be deemed a waiver of such provision with respect to any subsequent matter relating to such provision.
- (c) This Lease shall be construed in accordance with the laws of the State of Minnesota. Any legal action may only be commenced and proceed in the relevant district court in Ramsey County, Saint Paul, Minnesota.
- (d) If any term of this Lease is found to be void or invalid, such invalidity shall not affect the remaining terms of this Lease, which shall continue in full force and effect.
- (e) Upon request by Lessee, Lessor agrees to execute a recordable Memorandum of this Lease.
- (f) Any terms and conditions contained in this Lease that by their sense and context are intended to survive the termination or expiration of this Lease shall so survive.
- (g) The submission of this Lease to any party for examination or consideration does not constitute an offer, reservation of or option for the Leased Premises based on the terms set forth herein. This Lease will become effective as a binding Lease only upon the handwritten legal execution and delivery hereof by Lessor and Lessee.
- (h) The parties acknowledge that space at the Leased Premises was previously leased between Lessor and Lessee under the terms and conditions of that certain Water Tower Site Lease Agreement dated March 10, 1998, as modified by that certain Consent Letter dated September 4, 2009, and as amended by Amendment No. 1 to Site Lease Agreement dated September 3, 2014, and as amended by Amendment No. 2 to Site Lease Agreement dated October 20, 2015 referenced by LESSEE as Contract #NG 42333 (collectively, the

“Prior Lease”). Lessor and Lessee acknowledge and agree that the Prior Lease expires effective as of March 11, 2018, and that thereafter, the terms and conditions of this Lease shall be the sole instrument governing the leasing of space by Lessee at the Property. LESSOR and LESSEE acknowledge that notwithstanding the termination of the Prior Lease and the commencement of this Lease, any rental or other payments made pursuant to the Prior Lease for any period after its termination shall be applied and credited against any rentals or other payments due under this Lease.

- (i) Exhibits “A” through “F” listed below and attached hereto are hereby incorporated into this Lease by reference.

Exhibit “A” *Legal Description*

Exhibit “B” *Site Survey*

Exhibit “C” *Construction Drawings*

Exhibit “D” *Antenna Facilities and Frequencies*

Exhibit “E” *Security Plan*

Exhibit “F” *Memorandum of Lease Recording*

[Remainder of this page is left intentionally blank]

IN WITNESS WHEREOF, the parties hereto have executed this Lease, the day and year first written below.

Lessor:

**BOARD OF WATER COMMISSIONERS
OF THE CITY OF SAINT PAUL**
EIN 41-6005521

Approved:

By _____
Stephen P. Schneider, General Manager
Saint Paul Regional Water Services

By _____
Matt Anfang, President

Date _____

Approved as to form:

By _____
Assistant City Attorney

By _____
Mollie Gagnelius, Secretary

Date _____

CITY OF SAINT PAUL

By _____
Jaime Tincher, Deputy Mayor

Date _____

By _____
Shari Moore, City Clerk

Date _____

By _____
Todd Hurley, Director
Office of Financial Services

Date _____

For Lessee:

**VERIZON WIRELESS (VAW) LLC D/B/A
VERIZON WIRELESS**

By _____

Print name: _____

Title: _____

Date: _____

EXHIBIT "A"

Legal Description

PROPERTY DESCRIPTION: (per North Title Inc. Owner and Encumbrance Report, Certificate of Title No. 118893, dated May 7, 2015.)

That part of the Southeast Quarter of Section 23, Township 29, Range 22, commencing at a point 678.81 feet East of the Northwest corner of Lot 12, Katherine's Addition; thence South 268.97 feet to a point 711.69 feet Easterly from the West line of the Northwest quarter of the Southeast quarter of Section 23, Township 29, Range 22; thence Easterly 162 feet; thence Northerly to the South line of Cottage Avenue; thence Westerly to the place of beginning. It being intended, hereby to describe and convey those certain premises comprised in Lots 8, 9, 10, 11, 12 and 13, Block 1 of "Proposed Hillcrest Terrace," as shown on Plat entitled "Exhibit A" attached hereto, as part of hereof.

EXHIBIT "B"

**Site Survey
08/10/2015**

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[illegible]

Memorandum of Lease filed July 11, 2008 as Document No. 4105271

The sidelines of said easement shall be shortened or lengthened to terminate at said south right of way line of East Cottage Avenue.

A 5.00 foot wide easement for utility purposes over, under and across the Southeast Quarter of Section 23, Township 29 North, Range 22 West of the Fourth Principal Meridian, Ramsey County, Minnesota, the centerline of said easement is described as follows:

The sidelines of said easement shall be shortened or lengthened to terminate at said south right of way line of East Cottage Avenue.

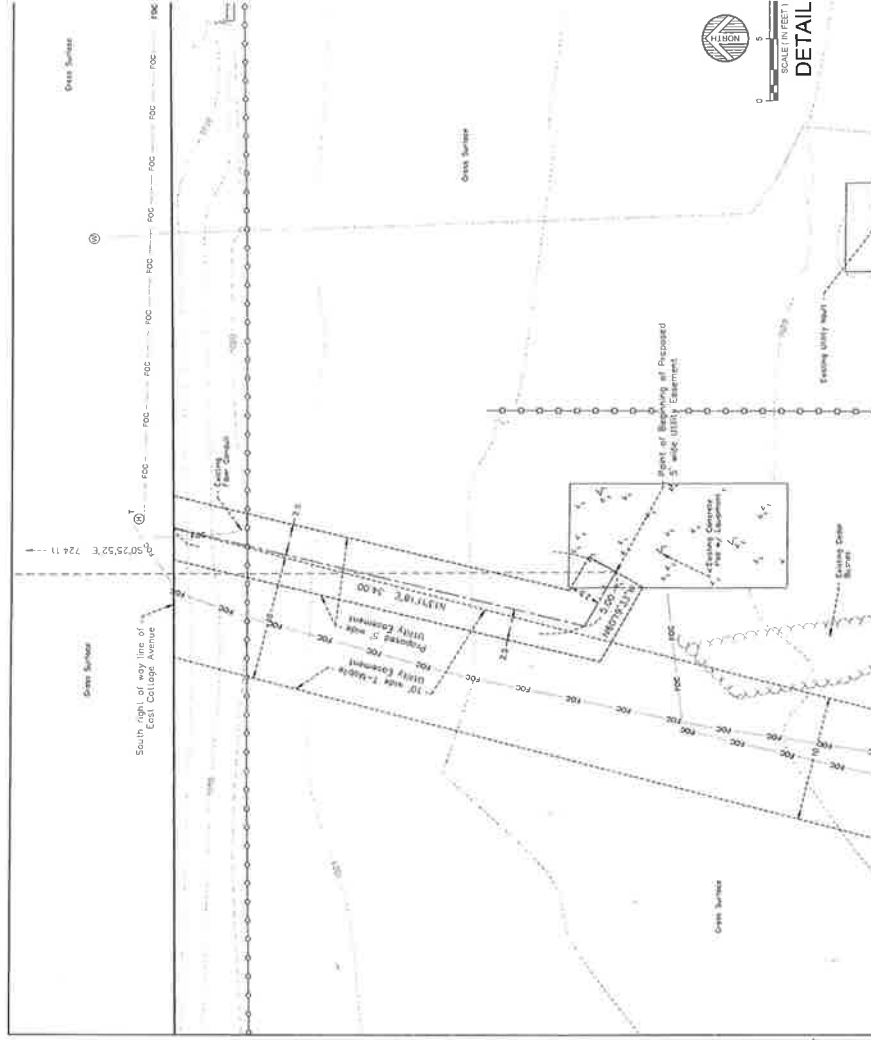
MINC GERANIUM DARK

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

SITE SURVEY

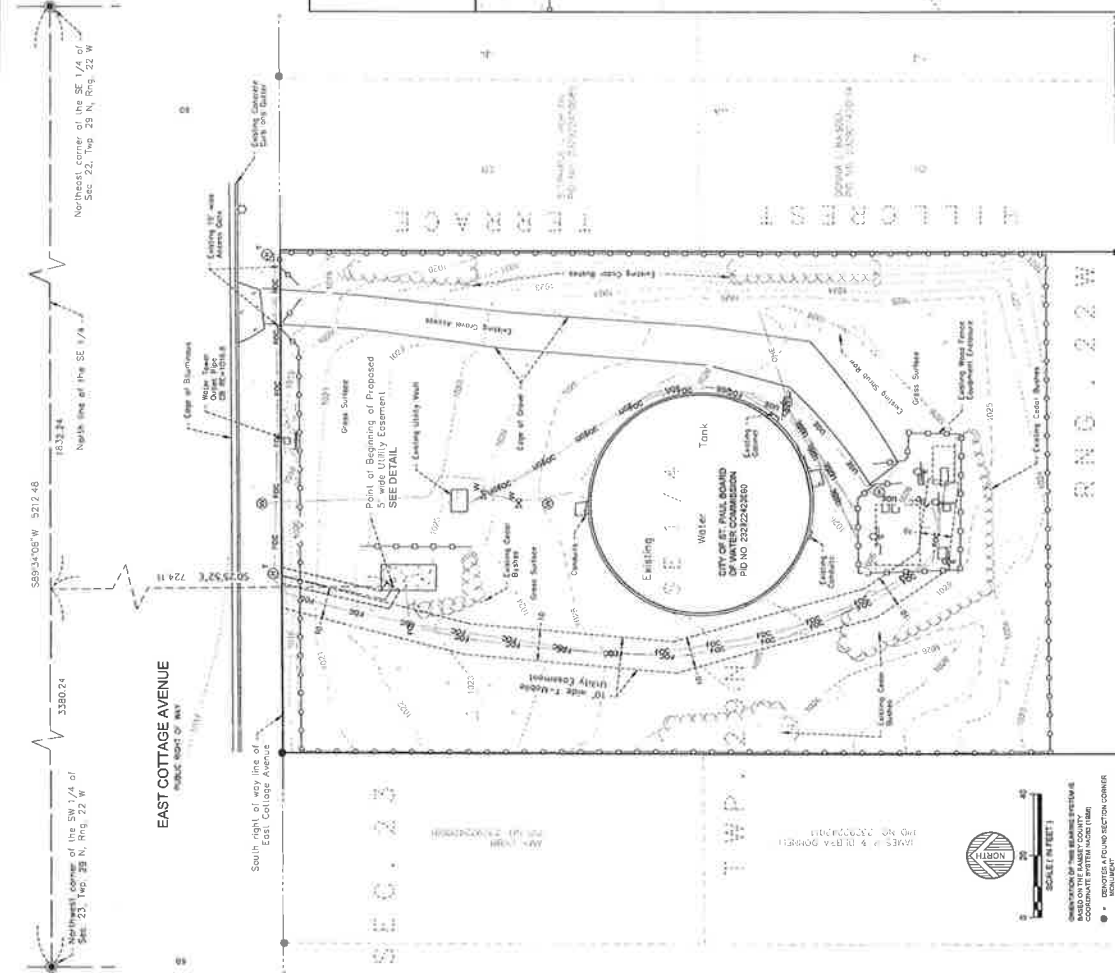
LEGEND

GUY ANCHOR	UNDERGROUND FIBER OPTIC
DECIDUOUS TREE	UNDERGROUND ELECTRIC
CONIFEROUS TREE	OVERHEAD ELECTRIC
SHRUB	WATERMAIN
WATER VALVE	EASEMENT LINE
WATER MANHOLE	CENTERLINE
ELECTRIC LIGHT POLE	CEDAR BUSHES
ELECTRIC METER	CHAINLINK FENCE
ELECTRIC POLE	WOOD FENCE
TELEPHONE PEDestal	CONCRETE SURFACE
FIBER MANHOLE	GRAVEL SURFACE



SCALE IN FEET
0 50
DETAIL

HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED LAND SURVEYOR IN THE STATE OF MINNESOTA.



SCALE IN FEET
0 50
DETAIL

HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED LAND SURVEYOR IN THE STATE OF MINNESOTA.

SHEET 2 OF 2 SHEETS

SITE NAME:
MINNAPARTNERS PARK

CLEAR AVENUE
Public Right of Way

SURVEYOR NOTES:
1.) Utilities are per approved, recorded plat
2.) per Minnesota State DNR

EXHIBIT "C"

**Construction Drawings
10/29/2013 Rev0**

VERIZON WIRELESS

MINC GERANIUM AWS



GENERAL NOTES

- In the event that Special Inspections are not performed in compliance with the contract terms, bid specifications and/or specified form, the General Contractor will be liable for all damages, construction performance, failures, and corrective actions related to the same.
- The following general notes shall apply to drawings and govern unless otherwise noted or specified.
- The work shall be in accordance with the specifications and regulations that have jurisdiction in the state of MINNESOTA, and the city of ST. PAUL.
- Requirements and regulations pertaining to R.F. safety codes and practices must be incorporated in the work even though they may not be listed individually and separately in either the drawings or the specifications.
- Compare field conditions with architectural and engineering drawings. Any discrepancies shall be directed to the Architect for clarification prior to fabrication and construction. No information or details on these sheets may be used without the permission of the owner or the architect.
- Do not scale drawings! 11" x 17" drawings to scale 24" x 36" drawings scale multiply by 2
- Unless otherwise shown or noted, typical details shall be used where applicable.
- Details shall be considered typical at similar conditions.
- Safety measures: The contractor shall be solely and completely responsible for the conditions of the job site, including safety of the persons and property of the contractor and the public. The Architect or Engineer's job site review is not intended to include review of the adequacy of the contractor's safety measures.
- Within these plans and specifications, "Owner" implies VERIZON WIRELESS.
- The work is the responsibility of the general contractor unless noted otherwise.
- The terms "contractor" and "G.C." refer to the owner's general contractor and the general contractor's sub-contractors. It is the general contractor's responsibility to determine the division of work among subcontractors.
- The general contractor is responsible in obtaining necessary public and private underground utility locates services prior to start of excavating / construction.



SITE DIRECTIONS

DIRECTIONS FROM BLOOMINGTON RVC:
FOLLOW US-169 NORTH TO I-394. FOLLOW I-394 EAST TO I-34. FOLLOW I-34 EAST TO WHITE BEAR AVE. TURN LEFT AND FOLLOW WHITE BEAR AVE NORTH TO CLEAR AVE. TURN RIGHT ONTO CLEAR AVE AND FOLLOW EAST TO SITE.

PROJECT INFORMATION

SITE NAME: MINC GERANIUM
PROJECT NUMBER: 20130869897
SITE ADDRESS: 2095A CLEAR AVE
ST. PAUL, MN 55119
COUNTY: RAMSEY
LATITUDE: N 44° 58' 57"
LONGITUDE: W 93° 00' 43"
GROUND ELEVATION: 1005.6' ASL
ANTENNA TIP HEIGHT: 87' ASL (AIRSPCS)
ANTENNA CENTERLINE HEIGHT: 83' ASL (CDMA TE)
STRUCTURE HEIGHT: 80' ASL
OVERALL STRUCTURE HEIGHT: 94'-8"
GENERATOR ON SITE: UNKNOWN (VZWOTHER)
TOWER BUILT: UNKNOWN
BASED ON SMCO DATED: 1/30/13
COAX RUNS:
(12) TOTAL
"X" COAX RUN = (2) 7/8" LINES @ 220' EA
"Y" COAX RUN = (2) 1/8" LINES @ 220' EA
"Z" COAX RUN = (2) 1/8" LINES @ 245' EA
"Z" COAX RUN = (2) 1/8" LINES @ 245' EA
PROJECT DESCRIPTION: PERMANENT MOUNTS, ADD HYBRID CABLES, BRUS'S, SECTOR AND MAIN BOXES.

SHEET INDEX	
SHEET	SHEET DESCRIPTION
T-1	PROJECT INFORMATION, MAPS, DIRECTIONS, AND SHEET INDEX
A-1	TOWER ELEVATIONS
A-2	ANTENNA MOUNTING PLAN
A-3	COAX, ANTENNA & TTA KEY
A-4/6	MISC PHOTOS
ST-54	STRUCTURAL DETAILS, PLANS AND NOTES
	SSH PAINTING SPECIFICATIONS
	SPECIAL INSPECTION FORM

ISSUE SUMMARY	
REV.	DESCRIPTION
A	ISSUED FOR REVIEW 6/08/13
B	ISSUED FOR OWNER SIGNOFF 6/03/13
C	ISSUED FOR OWNER SIGNOFF 10/29/13
D	ISSUED FOR BID / CONSTRUCTION 10/29/13

CONTACTS

LESSEE:
VERIZON WIRELESS
10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
PHONE: 650-685 (612) 726-0030

ARCHITECT:
DESIGN 1 OF EDEN PRAIRIE, LLC.
9973 VALLEY VIEW ROAD
EDEN PRAIRIE, MN 55344
(952) 876-8288

STRUCTURAL ENGINEER:
ULTEIG ENGINEERS
11111 W. 15TH AVE N
ST. PAUL, MN 55126
(651) 415-3800

**VERIZON WIRELESS
DEPARTMENTAL APPROVALS**

JOB TITLE	NAME	DATE
RF ENGINEER	CRAIG CIEGMIEROWSKI	7/12/13
CONSTRUCTION ENGINEER	JOHN HAUGEN	7/15/13

LESSOR / LICENSOR APPROVAL

SIGNATURE	PRINTED NAME	DATE
	DAN ZIENTY (SEH)	10/24/13

LESSOR / LICENSOR: PLEASE CHECK THE APPROPRIATE BOX BELOW
☐ NO CHANGES ☐ CHANGES NEEDED. SEE COMMENTS ON PLANS

ROBERT J. DAVIS
LICENSED ARCHITECT
12427
STATE OF MINNESOTA

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

ROBERT J. DAVIS
10/29/13

DESIGN 1
ROBERT J. DAVIS, AIA
9973 VALLEY VIEW RD
EDEN PRAIRIE, MN 55344
(952) 876-8288

VERIZON WIRELESS
MNC
GERANIUM
AWS
2095A CLEAR AVE
ST. PAUL, MN 55119

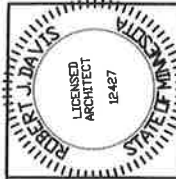
PROJECT
20130869897

MNC
GERANIUM
AWS

SHEET CONTENTS:
CONTACTS
ISSUE SUMMARY
SHEET INDEX
LESSOR / LICENSOR APPROVALS
PROJECT INFORMATION
VICINITY MAP
GENERAL NOTES

DRAWN BY: TJR
DATE: 10/29/13
CHECKED BY: BMG
REV. A
REV. B
REV. C

T-1



I hereby certify that the design, specifications, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Minnesota.

ROBERT J. DAVIS
[Signature]
Date: 10/26/13 License # 12427

DESIGN
ROBERT J. DAVIS, AIA
ARCHITECT
2095A CLEAR AVE
EAST PRARIE, MN 55344
(952) 393-2299

**VERIZON
WIRELESS**
1000 BROADVIEW BLVD
BLOOMINGTON, MN 55425
(952) 720-0035

PROJECT
20130669957

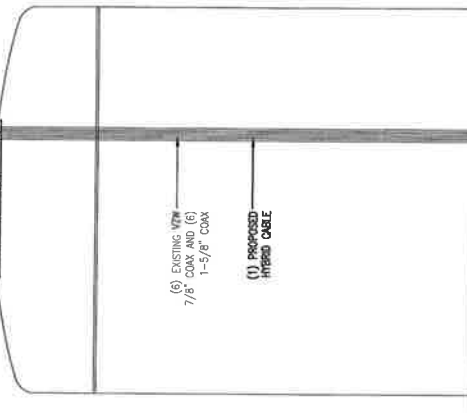
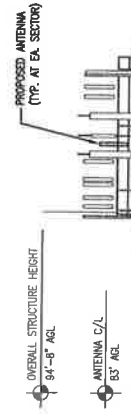
MINC
GERANIUM
AWS

2095A CLEAR AVE
ST. PAUL, MN 55119

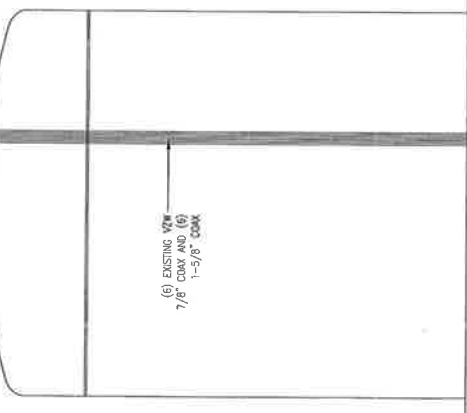
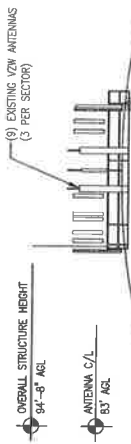
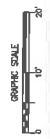
SHEET CONTENTS:
TOWER ELEVATIONS

DRAWN BY:	TJR
DATE:	10/26/13
CHECKED BY:	BMS
REV. A	
REV. B	
REV. C	
REV. D	

A-1

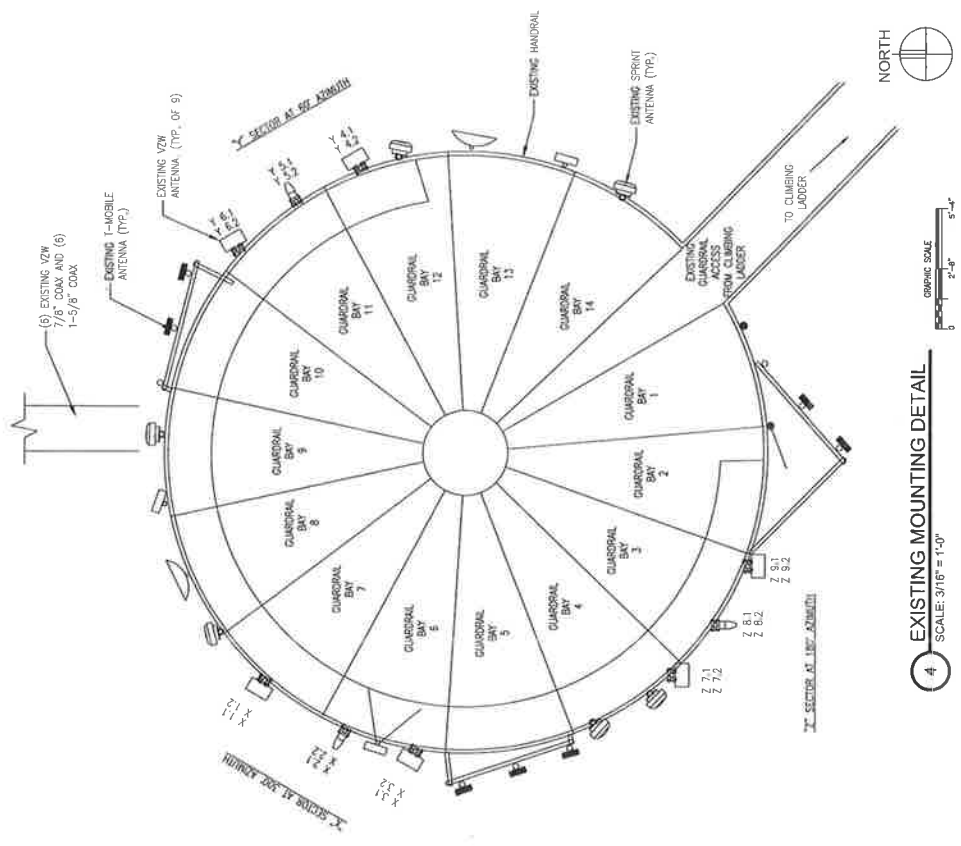


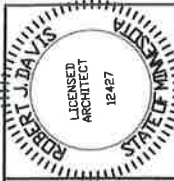
1 PROPOSED TOWER ELEVATION
SCALE: 1" = 20'-0"



2 EXISTING TOWER ELEVATION
SCALE: 1" = 20'-0"







I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

ROBERT J. DAVIS
Architect
10000 Highway 100, Suite 100
Eden Prairie, MN 55344
(952) 935-3299

DESIGN

ROBERT J. DAVIS, AIA
10000 Highway 100, Suite 100
Eden Prairie, MN 55344
(952) 935-3299

VERIZON WIRELESS

10000 Highway 100, Suite 100
Eden Prairie, MN 55344
(952) 935-3299

PROJECT
20130869997

MINC
GERANIUM
AWS

2096A CLEAR AVE
ST. PAUL, MN 55119

SHEET CONTENTS:
MISC. PHOTOS

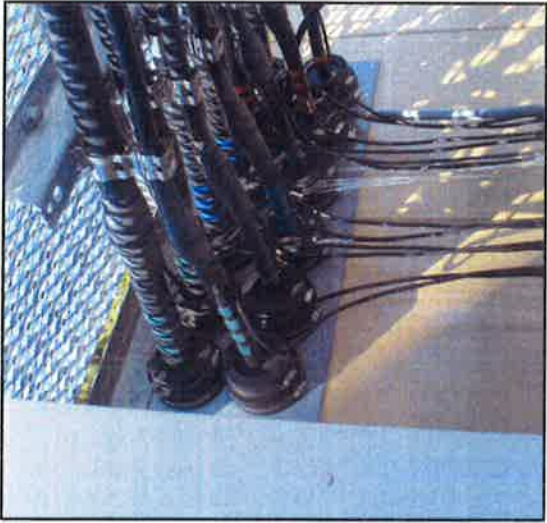
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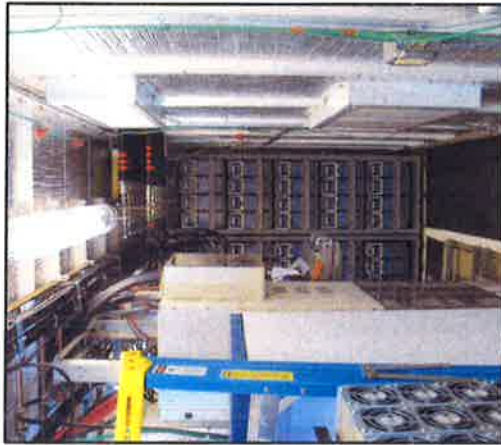
2 CONDUIT AT SHELTER
SCALE: NONE



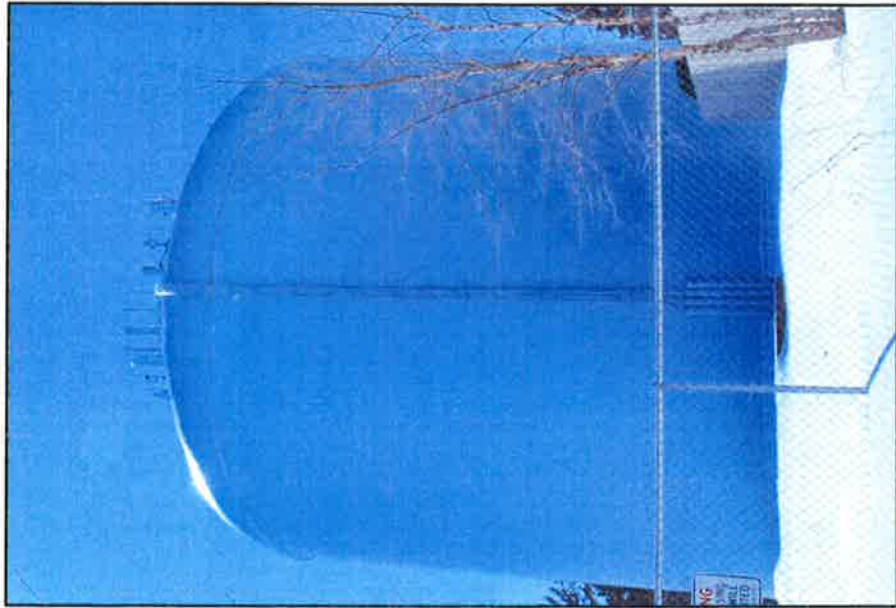
1 CABLE BRIDGE PHOTO
SCALE: NONE



3 SHELTER COAX ENTRY
SCALE: NONE



5 INTERIOR SHELTER
SCALE: NONE



4 OVERALL TOWER PHOTO
SCALE: NONE



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Robert J. Davis
Robert J. Davis
Date: 10/29/13 License No. 12427

DESIGN

ROBERT J. DAVIS, AIA
1805 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55434
(952) 931-5959

**VERIZON
WIRELESS**

1805 VALLEY VIEW RD.
BLOOMINGTON, MN 55425
(612) 720-0030

PROJECT
20130869997

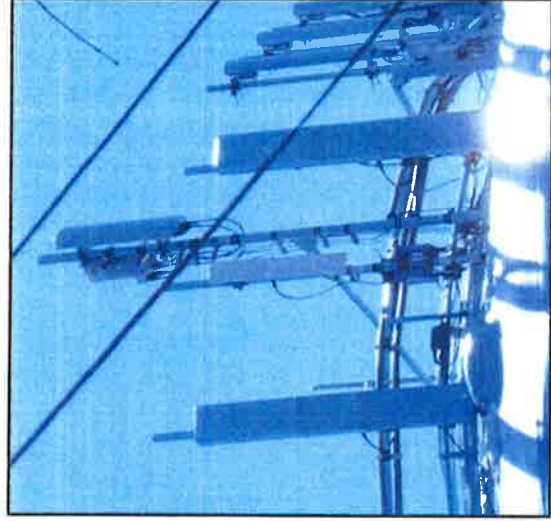
MINC
GERANIUM
AWS

2095A CLEAR AVE
ST. PAUL, MN 55119

SHEET CONTENTS:
MISC PHOTOS

DRAWN BY:	TJR
DATE:	10/29/13
CHECKED BY:	BMS
REV. A	
REV. B	
REV. C	
REV. D	

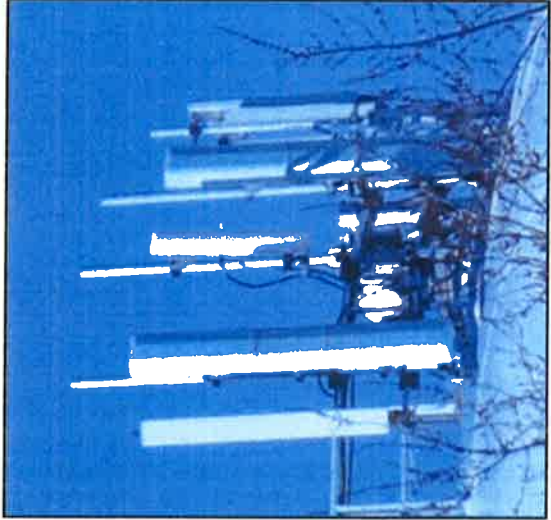
A-5



2 "X" SECTOR
SCALE: NONE



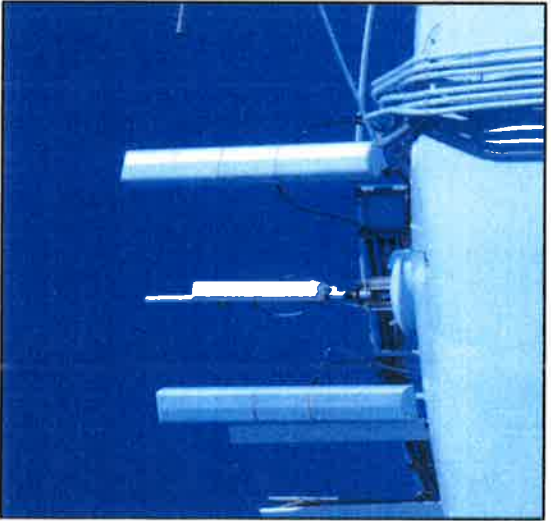
1 "X" SECTOR
SCALE: NONE



3 "Y" SECTOR
SCALE: NONE



1 "Y" SECTOR
SCALE: 6



4 "Z" SECTOR
SCALE: NONE



5 "Z" SECTOR
SCALE: NONE

09-0000 PAINTING

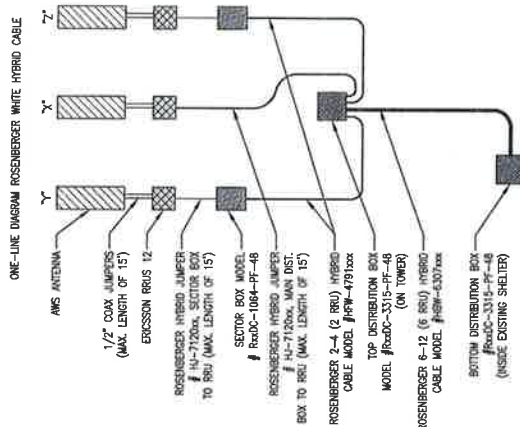
The proposed pond antennas, RRU's, sector/miniboxes, shall be painted to match existing finish or lower per SSI Boiling Specification section 09 37 15.

Tie / Sector Surfaces thoroughly with epoxy sealant (rubbing compound, 70oz solution in water) and a soft cloth. Roughing up surface with the sandpaper may do little to succeed; clean it after cleaning with alcohol.

To prevent moisture from condensing, saturate the plastic surfaces with Kryolan Kryoflex spray paint. Do not over-spray. Two thin coats are better than one thick coat.

Do not point the blades of the cover. Most times off with painter's tape or equivalent.

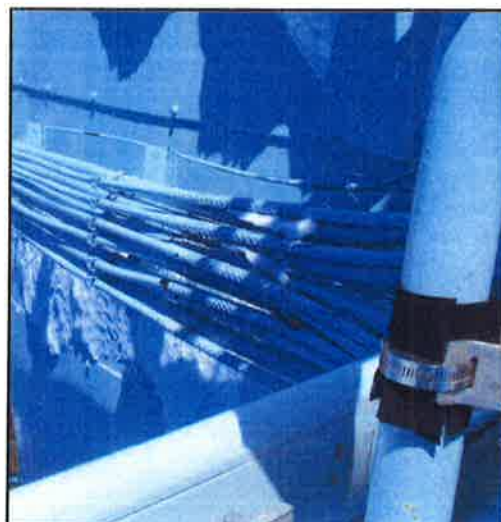
If weather must be perfect, do this step only at the scheduled time. The paint will take longer if it rains or there is too much humidity in the air. Seal all seams with Kryolan Kryoseal (metal primer). Let dry for 24 hours before closing.



NOTE:
OVERALL LENGTH OF POWER CABLES NOT
TO EXCEED 357' FROM POWER SUPPLY
TO REMOTE RADIO UNIT

HOIST GRIPS FOR 2-4 (2 RUN) HYBRID CABLE. ROSENBERGER CMOB-LH48SP
HOIST GRIPS FOR 6-12 (6 RUN) HYBRID CABLE. ROSENBERGER CMOB-LH612P
CABLE HANGER: 1-5/8" STAKE/ALUM. SWAP-IN. ROSENBERGER TH415-U15H
CABLE HANGER: 1-5/8" STAKE/ALUM. SWAP-IN. ROSENBERGER TH425-U15H
GRAMMET FOR 2-4 (2 RUN) CABLE IN 1-5/8" SWAP-IN. ROSENBERGER C6148-2526
GRAMMET FOR 6-12 (6 RUN) CABLE IN 1-5/8" SWAP-IN. ROSENBERGER C6149-3536
GRAMMET FOR HYBRID JUMPER IN 1-5/8" SWAP-IN. ROSENBERGER C6151-2629 (MAIN)
C6152-1714 (ROCK)

3 AWS ONE-LINE DIAGRAM
SCALE: NONE



	I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. ROBERT J. DAVIS 	 ROBERT J. DAVIS, J.A. ARCHITECT 8975 VALLEY VIEW RD BLOOMINGTON, MN 55434 (952) 932-9598	VERIZON WIRELESS 10901 BUSH LAKE ROAD BLOOMINGTON, MN 55438 (612) 725-0008	PROJECT 2013066997	MINC GERANIUM AWS	20854 CLEAR AVE ST. PAUL, MN 55119	SHEET CONTENTS: MISC. PHOTOS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN BY:</td> <td style="width: 50%;">12/2/13</td> </tr> <tr> <td>CHECKED BY:</td> <td>RLB</td> </tr> <tr> <td>REV. A</td> <td></td> </tr> <tr> <td>REV. B</td> <td></td> </tr> <tr> <td>REV. C</td> <td></td> </tr> <tr> <td>REV. D</td> <td></td> </tr> </table>	DRAWN BY:	12/2/13	CHECKED BY:	RLB	REV. A		REV. B		REV. C		REV. D	
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REV. A																				
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REV. C																				
REV. D																				



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9973 VALLEY VIEW RD.
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(952) 903-9299

10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55435

MING

2095A CLEAR AVE
ST. PAUL, MN 55119

SHEET CONTENTS:
EXIST. & PROP. PLAN VIEWS

DRAWN BY:	JMM
DATE:	10-25-13
CHECKED BY:	LJO
REV. 0	

S-1



I hereby certify that this plan specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: _____

10-28-13

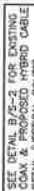
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 $3/16^{\circ} = 1^{\circ}-0^{\circ}$

EXISTING ANTENNA/COAX LAYOUT

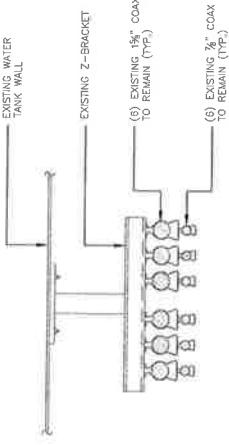
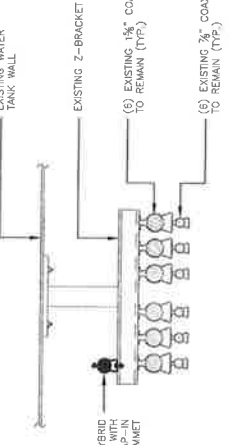
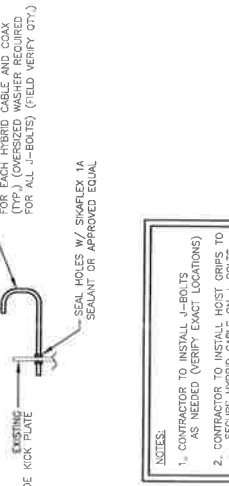
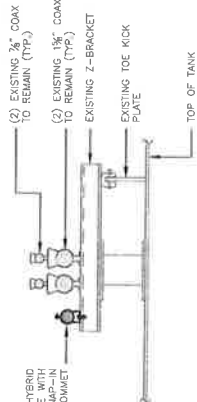
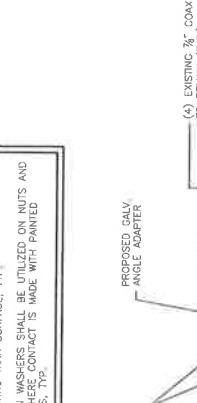
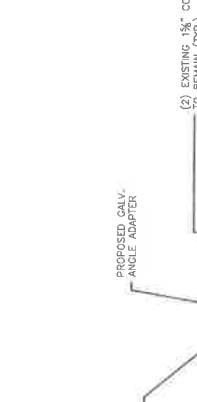
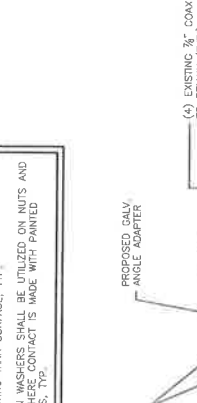
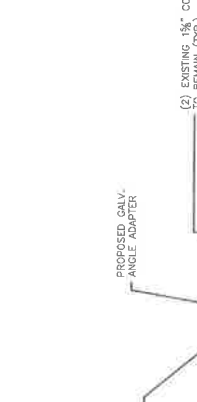
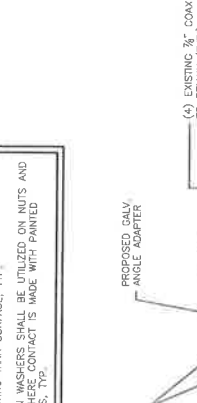
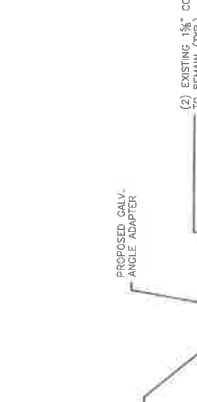
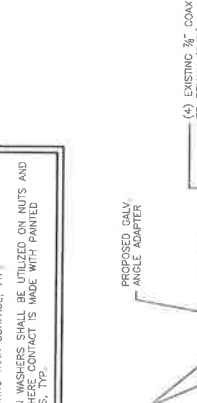
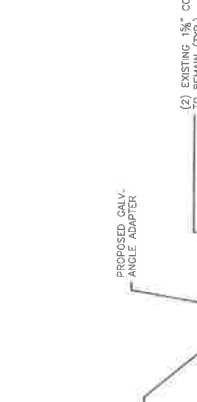
 $3/16^{\circ} = 4' - 0''$

EXISTING/PROPOSED ANTENNA & COAX LAYOUT



0470

- CONTRACTOR TO FIELD VERIFY EXISTING ANTENNA MOUNTING BRACKET HARDWARE AND CONNECTIONS TO ENSURE ALL CONNECTIONS TO HARDWARE ARE AS NEEDED. (REPAIR OR REPLACE AS NEEDED.) CONTRACTOR TO REPAIR AND PAINT TO MATCH EXISTING WATER TOWER AS REQUIRED AFTER PLACEMENT OF FROSTED ANTENNA MOUNTING HARDWARE.
- CONTRACTOR SHALL INSTALL A NEOPRENE PAD AND A METAL SHIM AS NECESSARY BENEATH AND AROUND THE ANTENNA CONNECTOR, WHEN ATTACHING THE EXISTING ANTENNA TO THE TOWER.

 Ulteig 1800 Highway 100, Suite 100 St. Paul, MN 55119 Tel: 612.222.1100 Fax: 612.222.1101 www.ulteig.com  DESIGN 1 ROBERT L. DAVIS, AIA 8875 VALLEY VIEW RD. EDEN PRAIRIE, MN 55244 (952) 935-5888	 EXISTING WATER TANK WALL EXISTING Z-BRACKET (1) EXISTING 1 1/2" COAX TO REMAIN (TYP.) (2) EXISTING 3/4" COAX TO REMAIN (TYP.)	 EXISTING WATER TANK WALL EXISTING Z-BRACKET (1) EXISTING 1 1/2" COAX TO REMAIN (TYP.) (2) EXISTING 3/4" COAX TO REMAIN (TYP.)	 MIN. 1/2" GALV. A36 J-BOLT BOLTED TO EXISTING TOE KICK PLATE (TYP.) (OVERSIZED WASHER REQUIRED FOR ALL J-BOLTS) (FIELD VERIFY QTY.) SEALANT OR APPROVED EQUAL NOTES: 1. CONTRACTOR TO INSTALL J-BOLTS AS NEEDED (VERIFY EXACT LOCATIONS) 2. CONTRACTOR TO INSTALL HOIST GRIPS TO SECURE HYBRID CABLE ON J-BOLTS.	 VERIZON WIRELESS 13801 BUSH LAKE ROAD BLOOMINGTON, MN 55448 (612) 725-1000 PROJECT 20130869997 MINC GERANIUM AWS 2085A CLEAR AVE ST. PAUL, MN 55119	EXISTING COAX DETAIL (UP SIDE OF TANK) NO SCALE A  (1) PROPOSED HYBRID COAX CABLE WITH ROSENBERGER SNAP-IN HANGER AND GROMMET (2) EXISTING 3/4" COAX TO REMAIN (TYP.) (3) EXISTING 1 1/2" COAX TO REMAIN (TYP.) EXISTING Z-BRACKET EXISTING TOE KICK PLATE TOP OF TANK	EXISTING COAX/PROPOSED HYBRID CABLE DETAIL (UP SIDE OF TANK) NO SCALE B  (1) PROPOSED HYBRID COAX CABLE WITH ROSENBERGER SNAP-IN HANGER AND GROMMET (2) EXISTING 3/4" COAX TO REMAIN (TYP.) (3) EXISTING 1 1/2" COAX TO REMAIN (TYP.) EXISTING Z-BRACKET EXISTING TOE KICK PLATE TOP OF TANK NOTES: 1. CONTRACTOR SHALL INSTALL A NEOPRENE RUB AND A METAL SHIM AS NECESSARY BETWEEN ANGLES AND CLAMPS, ANGLE ADAPTERS, ETC. WHEN ATTACHING TO THE EXISTING TANK SURFACE, TYP. 2. NYLON WASHERS SHALL BE UTILIZED ON NUTS AND BOLTS WHERE CONTACT IS MADE WITH PAINTED SURFACES, TYP.	EXISTING COAX/PROPOSED HYBRID CABLE DETAIL (HORIZONTAL) NO SCALE C  (1) PROPOSED HYBRID COAX CABLE WITH ROSENBERGER SNAP-IN HANGER AND GROMMET (2) EXISTING 3/4" COAX TO REMAIN (TYP.) (3) EXISTING 1 1/2" COAX TO REMAIN (TYP.) EXISTING Z-BRACKET EXISTING TOE KICK PLATE TOP OF TANK	DATE: 10-28-13 CHECKED BY: LJO REV: 0 DATE: 10-28-13 CHECKED BY: LJO REV: 0	NOTES NO SCALE D I hereby certify that this plan specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Signature: <i>[Signature]</i> Title: <i>[Title]</i> License No.: <i>[License No.]</i> Date: 10-28-13 Page No.: 47985	EXISTING COAX/PROPOSED HYBRID CABLE DETAIL (HORIZONTAL) NO SCALE F  (1) PROPOSED HYBRID COAX CABLE WITH ROSENBERGER SNAP-IN HANGER AND GROMMET (2) EXISTING 3/4" COAX TO REMAIN (TYP.) (3) EXISTING 1 1/2" COAX TO REMAIN (TYP.) EXISTING Z-BRACKET EXISTING TOE KICK PLATE TOP OF TANK	EXISTING COAX/PROPOSED HYBRID CABLE DETAIL (HORIZONTAL) NO SCALE G  (1) PROPOSED HYBRID COAX CABLE WITH ROSENBERGER SNAP-IN HANGER AND GROMMET (2) EXISTING 3/4" COAX TO REMAIN (TYP.) (3) EXISTING 1 1/2" COAX TO REMAIN (TYP.) EXISTING Z-BRACKET EXISTING TOE KICK PLATE TOP OF TANK	DATE: 10-28-13 CHECKED BY: LJO REV: 0 DATE: 10-28-13 CHECKED BY: LJO REV: 0	NOTES NO SCALE E I hereby certify that this plan specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Signature: <i>[Signature]</i> Title: <i>[Title]</i> License No.: <i>[License No.]</i> Date: 10-28-13 Page No.: 47985	EXISTING COAX/PROPOSED HYBRID CABLE DETAIL (HORIZONTAL) NO SCALE F  (1) PROPOSED HYBRID COAX CABLE WITH ROSENBERGER SNAP-IN HANGER AND GROMMET (2) EXISTING 3/4" COAX TO REMAIN (TYP.) (3) EXISTING 1 1/2" COAX TO REMAIN (TYP.) EXISTING Z-BRACKET EXISTING TOE KICK PLATE TOP OF TANK	EXISTING COAX/PROPOSED HYBRID CABLE DETAIL (HORIZONTAL) NO SCALE G  (1) PROPOSED HYBRID COAX CABLE WITH ROSENBERGER SNAP-IN HANGER AND GROMMET (2) EXISTING 3/4" COAX TO REMAIN (TYP.) (3) EXISTING 1 1/2" COAX TO REMAIN (TYP.) EXISTING Z-BRACKET EXISTING TOE KICK PLATE TOP OF TANK	DATE: 10-28-13 CHECKED BY: LJO REV: 0 DATE: 10-28-13 CHECKED BY: LJO REV: 0	NOTES NO SCALE H I hereby certify that this plan specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Signature: <i>[Signature]</i> Title: <i>[Title]</i> License No.: <i>[License No.]</i> Date: 10-28-13 Page No.: 47985	EXISTING COAX/PROPOSED HYBRID CABLE DETAIL (HORIZONTAL) NO SCALE I  (1) PROPOSED HYBRID COAX CABLE WITH ROSENBERGER SNAP-IN HANGER AND GROMMET (2) EXISTING 3/4" COAX TO REMAIN (TYP.) (3) EXISTING 1 1/2" COAX TO REMAIN (TYP.) EXISTING Z-BRACKET EXISTING TOE KICK PLATE TOP OF TANK	EXISTING COAX/PROPOSED HYBRID CABLE DETAIL (HORIZONTAL) NO SCALE J  (1) PROPOSED HYBRID COAX CABLE WITH ROSENBERGER SNAP-IN HANGER AND GROMMET (2) EXISTING 3/4" COAX TO REMAIN (TYP.) (3) EXISTING 1 1/2" COAX TO REMAIN (TYP.) EXISTING Z-BRACKET EXISTING TOE KICK PLATE TOP OF TANK
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DESIGN

ROBERT J DAVIS, AIA
ARCHITECT
875 VALLEY VIEW RD.
DEN PRAIRIE, MN 55344
9521 903-9290

PROJECT
20130869997

MINC
ERANIUM
AWS

2095A CLEAR AVE
ST. PAUL, MN 55119

SHEET CONTENTS:
NOTES

[illegible]

S-4

1. "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" (AISC), LATEST EDITION

1. SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS* (AISC, LATEST EDITION).
2. STEEL CONSTRUCTION MANUAL, AISC, LATEST EDITION.
3. MATERIALS:
 1. WIDE FLANGE SHAPES — ASTM A992 ($F_y = 50$ KSI)
 2. HEAVY STRUCTURAL SECTIONS (HSS) — ASTM A500, GR. B (F_y 46 KSI)
 3. PIPE STEEL — ASTM A53, GRADE B ($F_y = 35$ KSI)
 4. WELDING ELECTRODES — ASTM A233 (35 KSI).

1. PIPE STEEL - ASTM A53, GRADE B ($F_y = 35$ KSI)
4. WELDING ELECTRODES - ASTM A233 E70 SERIES.
5. CONNECTION BOLTS - ASTM A325
6. MISCELLANEOUS STEEL - ASTM A36 ($F_y=46$ KSI)

1. PIPE STEEL - ASTM A53, GRADE B ($F_y = 35$ KS), $E = 29 \times 10^6$ PSI.
 2. WELDING - ASME SECTION II, PART D, E70 SERIES.
 3. CONNECTION BOLTS - ASTM A223.
 4. MISCELLANEOUS STEEL - ASTM A36.
- SHOP AND FIELD WELDING IS TO BE PER AMS D11, LATEST EDITION. ALL WELDING IS TO BE PERFORMED BY CERTIFIED STEEL WELDER.
- THE STEEL SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF ALL CAP PLATES, BRACING PLATES, BASE PLATES, STIFFENERS, END PLATES, AND GUSSET PLATES SHOWN ON THE SHOP DRAWINGS. THE STEEL SUPPLIER TO INCLUDE ALL BOLTS STRUCTURAL AND HOLES FOR REQUIRED "GSA" CONNECTIONS. EXPENSES SHALL TESTING- THE OWNER, AT HIS OWN EMPLOY. THE SERVICES OF AN INDEPENDENT TESTING FIRM MAY BE REQUESTED TO TEST THE FOLLOWING:

1. SHOP FABRICATED WORK. PERFORM TESTS NOTED ABOVE. EXCEPT BOLT TESTING MAY BE REDUCED OR DELETED IF THE FABRICATION SHOP Satisfies THE QUALITY CERTIFICATION PROGRAM OF AISC FOR A CATEGORY 1 FABRICATOR OR A MORE STRINGENT CRITERIA. TESTING MAY ALSO BE WAIVED IF THE FABRICATOR IS APPROVED BY BOTH THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL STEEL CONT

- E. STRUCTURAL STEEL GALVANIZING:
1. ALL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.
2. ALL GALVANIZING SHALL BE INSPECTED BY THE HOT DIPPED GALVANIZING PROTECTIVE COATING PRIOR TO WELDING TO ENSURE A QUALITY STRUCTURAL WELD.
3. ALL WELDED SURFACES SHALL BE PAINTED WITH MINIMUM TWO COATS OF GALVANIZING PRIMER.
4. ALL PRELIMINARY PRIMER AND FIELD DRILLED HOLES SHALL BE PAINTED WITH MINIMUM TWO COATS OF COLD GALVANIZING PRIMER.

GENERAL NOTES

A. WITHIN THESE PLANS AND SPECIFICATIONS, "OWNER" IMPLIES VERIZON WIRELESS.

A. WITHIN THESE PLANS AND SPECIFICATIONS, "OWNER" IMPLIES VERIZON WIRELESS.

DESIGN LOADS

A. WIND LOAD (PER AWWA)

1. WIND SPEED: 90 MPH
2. GUST EFFECT FACTOR = 1.0
3. FORCE COEFFICIENT = 1.0

- A. WIND LOAD (PER ASCE 7)
 1. WIND SPEED: 90 MPH
 2. GUST EFFECT FACTOR = 1.0
 3. FORCE COEFFICIENT = 1.0
- CODES
 A. INTERNATIONAL BUILDING CODE - 2006
 B. STATE OF MINNESOTA BUILDING CODE - 2007
 C. ASCE 7 - 2005
 D. ASCE 100-05
 E. ASCE 100-05

MISCELLANEOUS

A. THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF ANY WORK. THE CONTRACTOR IS TO REPORT TO THE STRUCTURAL ENGINEER OF RECORD ANY AND ALL CONFLICTS IN THE CONSTRUCTED DOCUMENTS AND/OR THE ACTUAL CONSTRUCTED CONDITIONS IMMEDIATELY.

- THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF WORK. THE CONTRACTOR IS TO REPORT TO THE STRUCTURAL ENGINEER ANY DISCREPANCIES OR ALL CONFLICTS IN THE CONSTRUCTION DOCUMENTS AND/OR THE ACTUAL CONSTRUCTED CONDITIONS IMMEDIATELY.
- UNLESS SPECIFICALLY NOTED, NO PROVISIONS HAVE BEEN MADE FOR THE STRUCTURE TO ACCOMMODATE FUTURE EXPANSION OR ADDITION. ONLY STRUCTURAL MEMBERS HAVE BEEN DESIGNED FOR THEIR FINAL PLACEMENT AND SHALL BE CONSIDERED TO REMAIN IN PLACE. LOADS ONLY BE DESIGN LOADS.
- THE CONTRACTOR IS RESPONSIBLE FOR BRACING ALL STRUCTURAL MEMBERS TO PREVENT OVERSTRESSING AS REQUIRED UNTIL THE WORK IS COMPLETE. THE STOCKPILING OF ANY MATERIALS ON THE STRUCTURAL ELEMENTS IS AT THE CONTRACTOR'S OWN RISK.

DISPOSAL OF DEBRIS
ALL MATERIAL TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. MATERIALS SHALL BE DISPOSED OF OFF SITE AT A LOCATION SECURED AND ABANDONED FOR BY THE CONTRACTOR. BURNING OR BURIAL OF DEBRIS ON SITE SHALL NOT BE ALLOWED. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE REMOVAL OF ITS MATERIALS AND FOR ANY DAMAGES RESULTING FROM ITS DISPOSAL. ALL COSTS ASSOCIATED WITH DISPOSAL OF DEMOLITION MATERIAL OR DEBRIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

BE THE RESPONSIBILITY OF THE CONTRACTOR.
THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO
MINIMIZE DUST AND NOISE DURING THEIR OPERATIONS.

- THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE CITY TO MINIMIZE THE DUST TRACKING OF MUD AND DEBRIS OFF-SITE DURING AND AFTER DEMOLITION. WATER OR OTHER METHODS OF DUST CONTROL SHALL BE USED IF NECESSARY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE SITE AND PROTECTION FROM THE SAFETY HAZARDS DURING THEIR OPERATIONS.

CONTRACTOR SHALL SWEEP/ROUTE PROPOSED HYBRID CABLE AS NEEDED TO NOT INTERFERE WITH PROPOSED/EXISTING ANTENNA MOUNTING FRAMES AND BRACES

- [illegible]

CONTRACTOR TO REPAIR AND PAINT TO MATCH EXISTING WATER TOWER AS REQUIRED AFTER REPLACEMENT OF PROPOSED ANTENNA MOUNTING HARDWARE.

CONTRACTOR SHALL INSTALL A NEOPRENE PAD AND A METAL SHIM AS NECESSARY BENEATH THE ANTENNA MOUNTING HARDWARE AND AROUND CLAMPS, ANGLE ADAPTERS, ETC. WHEN ATTACHING TO THE EXISTING TANK SURFACE. TYPE

1. NYLON WASHERS SHALL BE UTILIZED ON NUTS AND BOLTS WHERE CONTACT IS MADE WITH PAINTED SURFACES. TYP.

1. PROPOSED ANTENNAS INSTALLED ON THE EXTERIOR OF THE WATER TOWER SHALL BE SHOP PAINTED TO MATCH THE COLOR OF THE EXISTING WATER TOWER, COLOR TO MATCH IS THEMEC ROBINS EGGS 2355 (10-95 VERIFIED BY THE CITY AT THE PRECONSTRUCTION MEETING).
2. ALL MOUNTING HARDWARE IS TO BE GALVANIZED AND/OR CONSTRUCTED OF NON-CORROSIVE MATERIAL, ONLY THE ANTENNAS ARE TO BE PAINTED (SHOP PAINTED) TO MATCH THE TANK.
3. PROPOSED CONDUIT SHALL BE PAINTED TO MATCH THE EXISTING WATER TOWER (VERIFY EXISTING WATER TOWER COLOR). CONDUIT TO BE PAINTED WITH MANUFACTURED WHITE JACKING AND ALL EXPOSED JUMPERS SHALL BE TAPED WHITE.

1. PROPOSED ANTENNAS INSTALLED ON THE EXTERIOR OF THE WATER TOWER SHALL BE SHOP PAINTED TO MATCH THE COLOR OF THE EXISTING WATER TOWER, COLOR TO MATCH IS THEMEC ROBINS EGGS 2355 (10-95 VERIFIED BY THE CITY AT THE PRECONSTRUCTION MEETING).
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SECTION 09 97 15

COATING SYSTEMS FOR TELECOMMUNICATION EQUIPMENT

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes painting and painting repair work associated with the installation of antennas, coaxial cables, and other common components with direct attachment to water tank facilities.

1.02 REFERENCES

- A. Society for Protective Coatings (SSPC):
 - www.sspc.org
 - 1. Volume 1: Good Painting Practice
 - 2. Volume 2: Systems and Specifications

1.03 SUBMITTALS

- A. Product Data: Submit data sheet for each coating system.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Manufacturers:
 - 1. Sherwin Williams Company
www.sherwin-williams.com
 - 2. Tnemec Company www.tnemec.com
 - 3. X-I-M Products www.ximbonder.com

PART 3 EXECUTION

3.01 EXAMINATION

- A. Visually evaluate surface preparation by comparison with pictorial standards of SSPC-VIS-1-89.

3.02 PREPARATION

- A. Remove all surface contaminants in accordance with SSPC-SP1 Solvent Cleaning.
 - 1. Do not use hydrocarbon solvents on surfaces to be coated with water-based coatings.

- B. Clean and remove all rust, slag, weld splatter, weld scabs, mill scale, and loose paint.

- C. Protect areas adjacent to welding and or grinding operations to prevent damage of surrounding intact paint system.

- D. Ferrous Metal: SSPC-SP6 Commercial Blast Cleaning

- E. Galvanized Steel: SSPC-SP7 Brush Off Blast

- F. Antenna Covers, Coaxial Cable, Non-metallic Substrates and Previously Painted Surfaces: Scarify to de-gloss. SSPC-SP1 with a non-hydrocarbon solvent.

- G. Surface profile shall be in accordance with manufacturer's product recommendation.

- H. Re-blast all surfaces:
 - 1. Where rusting has recurred.
 - 2. That do not meet the requirements of these specifications.

3.03 APPLICATION

- A. Coatings shall be applied in accordance with manufacturer's printed instructions.
- B. Surfaces to be coated shall be clean, dry, and free of airborne dust and contaminants at the time of application and while film is forming.
- C. Finish coat shall be uniform in color and sheen without streaks, laps, runs, sags or missed areas.
- D. Shop Painting: Tape-off (2-inch minimum) surfaces that will be in the *Heat-Affected-Zone* during field welding.
- E. Component Painting:
 - 1. Interior Exposed Ferrous Metal and Galvanized Steel:
 - a. Product: Sherwin Williams Macropoxy 646 or Tnemec Series 161
 - 1) Number of Coats: 2

- 2) Dry Film Thickness:
4.0–6.0 mils (per coat)
 - 3) Color: By Owner
- 2. Exterior Exposed Ferrous Metal and Galvanized Steel:
 - a. Primer: Sherwin Williams Macropoxy 646 or Tnemec Series 161 or N69
 - 1) Number of Coats: 1
 - 2) Dry Film Thickness:
4.0–6.0 mils
 - 3) Color: By Owner
 - b. Finish: Sherwin Williams Acrolon 218 or Tnemec Series 10740/10750
 - 1) Number of Coats: 1
 - 2) Dry Film Thickness:
2.0–3.0 mils
 - 3) Color: By Owner
- 3. Antenna Covers:
 - a. Primer: Sherwin Williams Pro-Cryl Primer
 - 1) Number of Coats: 1
 - 2) Dry Film Thickness:
2.0–4.0 mils
 - b. Finish: Sherwin Williams Sher-Cryl HPA
 - 1) Number of Coats: 1
 - 2) Dry Film Thickness:
2.5–4.0 mils
 - 3) Color: By Owner
- 4. Coaxial Cable
 - a. Primer: X-I-M 1138
 - 1) Number of Coats: 1
 - 2) Dry Film Thickness:
2.0–3.0 mils
 - b. Finish: Sherwin Williams Sher-Cryl HPA
 - 1) Number of Coats: 1
 - 2) Dry Film Thickness:
2.5–4.0 mils
 - 3) Color: By Owner

3.04 REPAIR OF AREAS DAMAGED BY WELDING

- A. Prepare the damage by one of the two following methods as directed by the Engineer.
 - 1. Abrasive-blast to SSPC-SP6.
 - 2. Mechanically clean to SSPC-SP11.
- B. Feather edges to provide smooth coating transition.
- C. Apply prime coat to bare metal surface.

- D. Mask off rectangular area around prime coat.
- E. Apply finish coat.

3.05 QUALITY CONTROL

- A. Measure dry film thickness with a magnetic film thickness gage in accordance with SSPC-PA2.
- B. Visually inspect dried film for runs, sags, dry spray, overspray, embedded particles and missed areas.
- C. Repair defective or damaged areas in accordance with Articles 3.02 and 3.03.

END OF SECTION

MINC Geranium AWS_SIF

Special Inspect Form

10/28/2013

Project Name MINC Geranium
 Location 2095A Clear Ave
 St. Paul, MN 55119

Project No: 20130869997
 Permit No: (1)

SPECIAL INSPECTION SCHEDULE

Technical (2)		Description (3)	Type of Inspection (4)	Report Frequency (5)	Assigned Firm (6)
Section	Article				
1707	3	Antenna mount bolted connections to handrail and toe plate	SI-S	Once	Terracon

TESTING SCHEDULE

Notes: This schedule shall be filled out and included in the Special Structural Testing & Inspection Program.

- (1) Permit number to be provided by the building official.
 (2) Reference to the specific technical scope section in the program.
 (3) Use descriptions per IBC Chapter 17, as adopted by Minnesota State Building Code.
 (4) Special Inspector - Structural, Special Inspector - Technical.
 (5) Weekly, monthly, per test/inspection, per floor, etc.
 (6) Firm Contracted to perform services.

ACKNOWLEDGEMENTS

Each appropriate representative shall sign below:

Owner:

Firm: Verizon Wireless

Date:

Contractor:

Firm:

Date:

Architect:

Firm: Design 1

Date:

SER:

Ulteig Engineers

Date: 10/28/2013

SI-T:

Firm: Isaac Odland 605/323-6071

Date:

SI-S:

Terracon

Date:

Firm: Andrew Schmid 651/770-1500

TA:

Terracon

Date:

Firm: Andrew Schmid 651/770-1500

F:

Firm:

Date:

If requested by engineer/architect of record or building official, the individual names of all prospective special inspectors and the work they intend to observe shall be identified.

Legend: SER = Structural Engineer of Record
 SI-S = Special Inspector - Structural
 F = Fabricator

SI-T = Special Inspector - Technical
 TA = Testing Agency

Accepted for the Building Department By: _____

Date: _____

EXHIBIT "D"

VERIZON WIRELESS (VAW) LLC D/B/A VERIZON WIRELESS Verizon Renewal Cottage Ave Standpipe || MIN Geranium 2095A Clear Ave, St. Paul, MN 55119

Antenna Facilities and Frequencies

1. Shelter and Shelter Components

Shelter: 9' x 18'
Power plant (DC current): - 48 volts
Battery supply back up: Yes – 8 hour backup
T-1 switch equipment: Fiber
Commercial switch gear equipment: NA
Radio transmitters : Ericsson RBS 6201 eNB
Air conditioner: (2) 5 ton units

2. Generators: None

3. Antennas

Quantity: Twelve (12) Total- (4) per Sector
Type: Panel
Manufacturer: CSS & ANTEL AMPHENOL
Azimuths: 330 degrees @ X Sector I 60 degrees @ Y Sector 1180 degrees @ Z Sector
Model: (6) CSS X7C 880, (3) CSS XPI6-80, (3) ANTEL AMPHENOL WBX065X17M050
Dimensions: 96" x 12.5" x 7" 48" x 6.7" x 4.5" 54.7" x 6.2" x 2.7"
Weight: 37lbs ea 10.4lbs ea 14.1lbs
Mount Type: Pipe
Centerline of the antenna: 83' feet AGL

4. Coax Cable

Number of lines: Twelve (12) Total | (4) per Sector
Type: ANDREW AVA5-50 & AVA7-50
Size: (6) @ 7/8" and (6) 1-5/8"

5. Tower Mounted Amplifiers (TMAs)

Quantity: Six (6) Total 12 per Sector
Manufacturer: Cleargain
Model: ADC DD 1900
Dimensions: 13.11" x 9.84" x 3.30"
Weight: 13.9 lbs ea
Mounting: Pipe

6. Diplexers

Quantity: Six (6) Total 12 per Sector
Manufacturer: CSS
Model: DBC750
Dimensions: 7.85 x 6.63 x 1.25
Weight: 4.88 lbs ea

Mounting: Pipe

7. Remote Radio Heads (RRHs)

Quantity: Three (3) Total I 1 per Sector

Manufacturer: Ericsson

Model: RRU12

Dimensions: 20.89" x 18.50" x 7.36"

Weight: 58 lbs ea

Mounting: Pipe

Hybrid Jumper: Rosenberger HJ-712-0091 From Sector Distribution Box to RRU

8. Distribution Box (COVP)

Quantity: Two (2) I (1) Shelter & (1) X Sector

Manufacturer: RayCap

Model: RXDC 3315 PF 48

Dimensions: 23.7" x 13 .56" x 8.15"

Weight: 26.91bs ea

9. Sector Box

Quantity: Two (2) Total I (1) Y Sector & (1) Z Sector

Manufacturer: Raycap

Model: RXXDC 1064 PF 48

Dimensions: 15.9" x 8.15" x 10.15"

Weight: 12.1 lbs ea

10. Hybrid Cable

Type: Rosenberger White Hybrid

Number of Lines: Three (3) Total

-From Shelter Box to Main Distribution Box at X Sector Cable HBW-6307-250

-From Main Distribution Box to Y Sector Cable Model HFW-4791-050

-From Main Distribution Box to Z Sector Model HFW-4791-040

11. Frequencies

Svc	Technology	EIRP (Watts)	Std Frequency	Freq Tx/Start	Freq Tx/Stop	Freq Rx/Start	Freq Rx/Stop
1	CDMA	500		880	894	835	849
2	LTE	1000		746	757	776	787
3	PCS-EVDO (D & F band)	1000		1946,1970	1950,1975	1865,1890	1870, 1895
4	AWS	1000		2110	213	1710	1730

EXHIBIT "E"

SECURITY PLAN

Remote Facilities Access
Saint Paul Regional Water Services (SPRWS)
Standard Operating Procedure (SOP)
Effective Date: November 15, 2010

INTENT:

SPRWS is dedicated to providing its employees with the safest work environment possible and to taking every reasonable precaution to ensure the safety of potable water delivered to our communities. This SOP provides conditions for persons with need to access SPRWS facilities outside the McCarrons Center facilities (Remote Facilities). It establishes procedures for access and responsibilities for both those wishing to enter remote facilities and those allowing such access.

SECURITY OF FACILITIES:

Persons with routine access to remote facilities include SPRWS staff, agents of entities leasing space, agents of various cities, and various law enforcement personnel. Other entities also have occasional access needs under the supervision of SPRWS staff. With so many persons having legitimate access needs, it is imperative that specific procedures be established to ensure that the highest level of security possible. As a result, the following procedures are established:

1.0 SITE ACCESS REQUIREMENTS

- 1.01 Request to access site required prior to entry. Important: note that the police will be called to the site if a call is not made to SPRWS prior to entry.

Note: all requests for entry to remote sites must be made through the Engine Room!
Any other employee asked to allow entry to a remote site must inform the requester to call the Engine Room so that they can be cleared for entry.

a) Routine and regularly scheduled

Whenever possible, authorized agencies that require repeated, routine access should schedule such access during normal business hours at least one day in advance by calling SPRWS Engine Room at 651-266-1660. The Engine Room Pumping Engineer will record the name of the agent and arrange for crew to meet agent on site and allow for access after checking for proper ID. Pumping Engineer will verify that agents requesting access are those that arranged for the access previously, and pass the authorized agents names to the field crew for verification in the field. If access is allowed, field crew will notify Engine Room that an entry to a site will occur.

b) Emergencies

1. Contact Engine Room 651-266-1660.
2. Engine Room Pumping Engineer (PE II) will check against a list of authorized companies for each site to ensure that a particular company has reason to be on site.
3. If company is authorized, PE II will make arrangements with the Distribution after-hours Turn-On truck to allow for access at the site.
4. Distribution personnel will be responsible to verify the identity of the agent(s) and to monitor agent(s') activity at the site.
5. Under certain conditions, Distribution personnel may not be available, in which case PE IIs will use their best judgment to determine if there is another way to grant access to the agent, or to deny or delay access.

1.02 While at site:

- a) Authorized agents are required to perform their necessary work on the site in a manner that does not compromise site security. This includes, but is not limited to, securing all doors and gates before leaving the site.
- b) SPRWS employees will determine whether or not they will need to monitor the activity at the site. If SPRWS employee believes that the agent is not there for a legitimate business reason, the employee should get to a safe area and call 911 to have police confront the agent and remove them if necessary. In this event, SPRWS employee should also call the Engine Room to inform them of the proceedings.

1.03 Leaving site:

- a) Authorized agents must notify Engine Room 651-266-1660 when leaving the site.

2.0 IDENTIFICATION PROCEDURES

- 2.01 All SPRWS staff and personnel are issued a SPRWS photo identification card (ID card) at the McCarrons facility. This ID is to be displayed above the waist. Anyone purporting to be a SPRWS employee should be asked to display this ID card if it is not visible.

Contractors or agents seeking entrance to a remote facility are required to show a valid driver's license. SPRWS employee allowing them access will forward the name and phone number of the entrant to the Engine Room to confirm that access should be granted.

3.0 FACILITY LOCKS

3.01 All Remote Facilities will be secured with high-security locks utilizing high-security keys.

- a) Locks will be furnished and installed by SPRWS.
- b) No other locks are permitted, and all such other locks will be removed and disposed of.
- c) SPRWS may make some exceptions in cases where, for the convenience of SPRWS staff, contractor locks will be allowed to be "daisy-chained" onto a SPRWS facility. These exceptions will be on a case by case basis, and the decision to allow this will be made by SPRWS security officer.
- d) For sites that are undergoing construction, SPRWS will install construction locks and give contractors construction keys.

3.02 Issuance of Keys

- a) SPRWS staff that require access, as determined by the appropriate SPRWS division manager, will be issued keys. Such keys will be reduced to the lowest possible number.
 - 1. SPRWS staff are responsible for the safe keeping of keys issued to them.
 - 2. Repeated lost keys will be considered negligence and may result in corrective action and/or discipline by SPRWS management.
- b) Key audits will be conducted at least once each calendar year.
 - 1. Each SPRWS staff member, and each Authorized Agent, to whom SPRWS keys were issued will be required to sign a key Audit Statement acknowledging their continued possession of the key.
 - 2. Both Public and Private Agencies are responsible for the return of all keys and/or contractor keys issued to their agents who leave their employ or are no longer required by the Authorized Agency to access SPRWS facilities. Lost keys must be reported immediately to SPRWS by contacting the Engine Room at 651-266-1660.
 - 3. Repeated losses may result in deposit requirements, as may be determined necessary by SPRWS staff.

4.0 SPRWS CONTACTS

Normal and emergency access after normal business hours:
PE II 651-266-1660.

CONTRACTOR PROCEDURES FOR ENTERING SPRWS WATER TOWER FACILITIES

Routine Accesses:

- 1) Notify SPRWS Pumping Engineer at 651-266-1660 of desired access at least 24 hours prior to accessing site. Pumping Engineer will verify that company has agreement to be on site, and if so will arrange for crew to meet contractor at designated time and place. Contractor must provide names of all employees that will access the site.
- 2) At time of arranged access, provide IDs (in the form of valid driver's licenses) for SPRWS field crew. If IDs match the names given to the Pumping Engineer, crew will provide access. If not, no access will be provided.
- 3) SPRWS field crew may accompany contractor while they are on site. If the crew does not accompany contractor, contractor must call the Pumping Engineer when they leave the site.

Emergency Accesses:

- 1) Notify SPRWS Engine Room at 651-266-1660 of need to access site.
- 2) Engine Room Pumping Engineer will verify that contractor has an agreement to be on a particular site.
- 3) If contractor has agreement to be on site, and a reasonable explanation of the emergency is given, Pumping Engineer will arrange for a crew to meet contractor at the site.
- 4) Contractor will need to produce IDs and work orders.
- 5) If OK, crew will allow for access.
- 6) Repeated emergencies will be cause for SPRWS to bill the contractor or deny access.
- 7) Contractor will call Engine Room when leaving site.

- End -

Exhibit "F"
Memorandum of Lease Recording

DRAFTED BY
AND RETURN TO:

(space above this line for Recorder's use only)

MEMORANDUM OF LEASE

THIS MEMORANDUM OF LEASE is entered into as of this 13th day of February, 2018, by and between **BOARD OF WATER COMMISSIONERS OF THE CITY OF SAINT PAUL**, a municipal corporation under the laws of the State of Minnesota ("Lessor"), and **VERIZON WIRELESS (VAW) LLC D/B/A VERIZON WIRELESS**, a Delaware limited liability company, ("Lessee").

1. LEASE OF PREMISES. For the purpose of installing, operating, and maintaining a communication facility and other improvements, Lessor hereby leases to Lessee, and Lessee hereby leases from Lessor, certain premises located at 2095 Clear Ave, City of St. Paul, County of Ramsey, State of Minnesota, and more particularly described in Section 4 of this Memorandum, and on the terms and conditions more particularly set forth in, that certain Site Lease Agreement dated 13th day of February, 2018 (the "Lease") by and between Lessor and Lessee, which terms and conditions are hereby incorporated by reference.
2. The initial term of the Lease shall commence on March 12, 2018, and terminate on December 31, 2023. Lessee shall have the right to extend the Lease for three (3) additional five (5) year terms. Notwithstanding the foregoing the lease shall not extend beyond March 11, 2038.
3. The Lease provides in part the grant of a non-exclusive easement for unrestricted rights of access and to electric and telephone facilities.

EXHIBIT "F"

4. The subject property affected by the filing and recording of this Memorandum of Lease is described below:

PROPERTY DESCRIPTION: (per North Title Inc. Owner and Encumbrance Report, Certificate of Title No. 118893, dated May 7, 2015.)

That part of the Southeast Quarter of Section 23, Township 29, Range 22, commencing at a point 678.81 feet East of the Northwest corner of Lot 12, Katherine's Addition; thence South 268.97 feet to a point 711.69 feet Easterly from the West line of the Northwest quarter of the Southeast quarter of Section 23, Township 29, Range 22; thence Easterly 162 feet; thence Northerly to the South line of Cottage Avenue; thence Westerly to the place of beginning. It being intended, hereby to describe and convey those certain premises comprised in Lots 8, 9, 10, 11, 12 and 13, Block 1 of "Proposed Hillcrest Terrace," as shown on Plat entitled "Exhibit A]" attached hereto, as part of hereof.

(Signature and Acknowledgement Pages Follow)

EXHIBIT "F"

Lessor:

Approved:

By _____
Stephen P. Schneider, General Manager
Saint Paul Regional Water Services

Approved as to form:

By _____
Assistant City Attorney

**BOARD OF WATER COMMISSIONERS
OF THE CITY OF SAINT PAUL**
EIN 41-6005521

By _____
Matt Anfang, President

Date _____

By _____
Mollie Gagnelius, Secretary

Date _____

CITY OF SAINT PAUL

By _____
Jaime Tincher, Deputy Mayor

Date _____

By _____
Shari Moore, City Clerk

Date _____

By _____
Todd Hurley, Director
Office of Financial Services

Date _____

EXHIBIT "F"

For Lessee:

**VERIZON WIRELESS (VAW) LLC D/B/A
VERIZON WIRELESS**

By _____

Print name: _____

Title: _____

Date: _____

EXHIBIT "F"

ACKNOWLEDGEMENTS

BOARD OF WATER COMMISSIONERS OF THE CITY OF SAINT PAUL

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

The foregoing instrument was acknowledged before me this ____ day of _____, 2018,
by Matt Anfang, President of the Board of Water Commissioners of the City of Saint Paul, a Minnesota
municipal corporation, on behalf of said corporation.

Witness my hand and official seal.

Notary Public

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

The foregoing instrument was acknowledged before me this ____ day of _____, 2018,
by Mollie Gagnelius, Secretary of the Board of Water Commissioners of the City of Saint Paul, a
Minnesota municipal corporation, on behalf of said corporation.

Witness my hand and official seal.

Notary Public

CITY OF SAINT PAUL

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

The foregoing instrument was acknowledged before me this _____ day of _____, 2018,
by Jaime Tincher, Deputy Mayor of the City of Saint Paul, a Minnesota municipal corporation, on behalf
of said corporation.

Witness my hand and official seal.

Notary Public

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

The foregoing instrument was acknowledged before me this _____ day of _____, 2018,
by Shari Moore, City Clerk of the City of Saint Paul, a Minnesota municipal corporation, on behalf of
said corporation.

Witness my hand and official seal.

Notary Public

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

The foregoing instrument was acknowledged before me this _____ day of _____, 2018,
by Todd Hurley, Finance Director of the City of Saint Paul, a Minnesota municipal corporation, on behalf
of said corporation.

Witness my hand and official seal.

Notary Public

EXHIBIT "F"

LESSEE

STATE OF _____)
) ss.
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____ day of _____, 2018,
by _____, _____, **VERIZON WIRELESS (VAW) LLC**
D/B/A VERIZON WIRELESS, organized and existing under the laws of Delaware, on behalf of said
corporation.

Witness my hand and official seal.

Notary Public

EXHIBIT "F"