

VILLAGE OF DOWNERS GROVE
Report for the Village
12/11/2018

SUBJECT:	SUBMITTED BY:
Antenna License Agreement - TMobile - Maple Tower	Enza Petrarca Village Attorney

SYNOPSIS

A resolution has been prepared to authorize execution of a license agreement with TMobile for cellular antenna on Village-owned property located at 6701 Main Street.

STRATEGIC PLAN ALIGNMENT

The goals for 2017-2019 include *Steward of Financial, Environmental and Neighborhood Sustainability*.

FISCAL IMPACT

Approval of the proposed agreement would result in the Village collecting \$4,000.00 effective December 1, 2018 in monthly license fees with a 4% increase each year thereafter.

RECOMMENDATION

Approval on the December 11, 2018 Consent Agenda.

BACKGROUND

TMobile is the provider of cellular communications in the Chicagoland area. TMobile contacted the Village concerning its desire to renew its license agreement with the Village and continue their operation of antenna and ground equipment on the Village's water tower located at 6701 Main Street. TMobile has had a license agreement with the Village on this tower since December 1, 2003. There will be no changes to the equipment that currently exists on the property.

Approval of the proposed agreement would result in the Village collecting \$4,000.00 in monthly license fees, beginning December 1, 2018, with a 4% increase each year thereafter. The contract shall run until December 31, 2033.

ATTACHMENTS

Resolution
Agreement

RESOLUTION NO. _____

**A RESOLUTION AUTHORIZING EXECUTION OF A LICENSE AGREEMENT
BETWEEN THE VILLAGE OF DOWNERS GROVE AND
T-MOBILE CENTRAL, LLC TO INSTALL, MAINTAIN AND OPERATE A
COMMUNICATIONS FACILITY ON VILLAGE PROPERTY**

BE IT RESOLVED by the Village Council of the Village of Downers Grove, DuPage County, Illinois as follows:

1. That the form and substance of a certain License Agreement ("Agreement"), between the Village of Downers Grove ("Village") and TMobile Central, LLC d/b/a TMobile ("Licensee") for the maintenance and operation of antenna equipment on Village property located at 6701 Main Street, Downers Grove, IL, as set forth in the Agreement submitted to this meeting with the recommendation of the Village Manager, is hereby approved.

2. That the Village Manager and Village Clerk are hereby respectively authorized and directed for and on behalf of the Village to execute, attest, seal and deliver the Agreement, substantially in the form approved in the foregoing paragraph of this Resolution, together with such changes as the Manager shall deem necessary.

3. That the proper officials, agents and employees of the Village are hereby authorized and directed to take such further action as they may deem necessary or appropriate to perform all obligations and commitments of the Village in accordance with the provisions of the Agreement.

4. That all resolutions or parts of resolutions in conflict with the provision of this Resolution are hereby repealed.

5. That this Resolution shall be in full force and effect from and after its passage as provided by law.

Mayor

Passed:

Attest: _____
Village Clerk

Site CH35095 _____

**LICENSE AGREEMENT
BETWEEN THE VILLAGE OF DOWNERS GROVE AND
T-MOBILE CENTRAL LLC TO INSTALL, MAINTAIN AND OPERATE A
COMMUNICATIONS FACILITY ON VILLAGE PROPERTY**

WITNESSETH

WHEREAS, the Village of Downers Grove (hereinafter referred to as the "Village") is an Illinois municipal corporation and a home rule unit, pursuant to the laws of the State of Illinois; and

WHEREAS, the Village is the owner and lessor of certain real estate located at 6701 Main Street, Downers Grove, Illinois (the "Property"), upon which is located a Village Water Tower (hereinafter referred to as the "Tower"); and

WHEREAS, T-Mobile Central LLC, a Delaware limited liability company (hereinafter referred to as "Licensee") desires to install and operate a wireless telecommunications facility on the Property and Tower; and

WHEREAS, Licensee's predecessor in interest and Village entered into that certain License Agreement dated November 4, 2003 ("Original Agreement"), the term of which is set to expire on November 30, 2018; and

WHEREAS, Licensee has requested permission to license space on the Tower (the "Tower Space") for the continued installation of its antennas, coax cabling, TMA's and ancillary equipment related thereto (hereinafter collectively referred to as the "Antenna Equipment") on the Tower and ground space (the "Ground Space") for the placement of its cabinets, radios, backup batteries and other ground based equipment ("Ground Equipment")(the Tower Equipment and Ground Equipment are sometimes collectively referred to herein as the "Licensee Facilities").

NOW, THEREFORE, in consideration of the mutual promises, covenants and conditions, the Village and Licensee agree as follows:

1. **CONTRACT DOCUMENTS:** The provisions set forth in the preamble and the following exhibits are incorporated into and made a part of this Agreement:
 - a. Exhibit 1 - Site map(s) of the Property (or upgrades thereto), as amended from time to time and approved by the Village, showing the Tower Space and the Ground Space, together with the areas on the Property licensed to Licensee to provide access and utility service to the Ground Space (collectively, the "Licensed Premises") which includes location of any proposed underground utilities necessary for operation of the Licensee Facilities.
 - b. Exhibit 2 - Plans and specifications (or upgrades thereto), as amended from time to time and approved by the Village, for the Licensee Facilities, including any conduit routes, cabling runs, and utility lines to be installed on the Property.

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- c. Exhibit 3 - Plans and specifications (or upgrades thereto), as amended from time to time and approved by the Village, for the antennas and any cables or utility lines installed on the Licensed Premises for any sublicensee, if any.
2. **GRANT OF LICENSE**: The Village hereby grants to the Licensee the right, permission and authority to install, operate, maintain, repair and remove the Licensee Facilities upon the terms and conditions hereinafter specified. This Agreement shall not terminate upon the sale, assignment or transfer of the Property, but shall run with the land.
 3. **SPECIFICATIONS**: Licensee shall comply with the following specifications:
 - a. During the term of this Agreement, there shall be no substantial variations, modifications, or upgrades from the plans and specifications contained in the attached Exhibits without the prior written approval of the Village, which approval shall not be unreasonably withheld or delayed.
 - b. The Antenna Equipment shall be installed, attached to the Tower, and maintained in conformance with Exhibit 2 and any applicable State and federal requirements. The Antenna Equipment shall be located more than ten (10) feet from any existing antenna equipment installed prior to Licensee's Antenna Equipment and shall not exceed ninety-six (96") inches in height.
 4. **CONSTRUCTION, INSTALLATION AND MAINTENANCE**: Licensee may install, repair, maintain, or replace the Licensee Facilities, subject to the following conditions:
 - a. Licensee shall obtain all required permits and authorizations from the Village, in accordance with the applicable ordinances, prior to commencing any work under this Agreement. Such work shall comply with applicable codes and regulations and shall be conducted in a workmanlike manner.
 - b. Licensee shall obtain all necessary approvals from any regulatory authorities for the operation of the Licensee Facilities. Further, the Licensee shall comply with all applicable laws and regulations of such regulatory authorities including, but not limited to the Federal Communications Commission ("FCC").
 - c. All costs connected with the installation, maintenance, repair, use and removal of the Licensee Facilities and any related equipment shall be the responsibility of the Licensee.
 - d. Licensee shall not take any action, or allow any action by parties acting at the direction of Licensee, to be done which may impair the use of or damage the Tower.
 - e. Licensee may not interfere with the use by the Village, its officers, agents and employees, of the Tower or the Property.

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- f. Licensee shall be entitled to access the Licensee Facilities Monday through Friday, 7:00 a.m. to 3:30 p.m. Central Time, by contacting the Village Building Services Department at (630) 434-5551 (801 Burlington Tower) or the Public Works Department at (630) 434-5460 (for all other Towers). If access is required after business hours, on weekends, on a holiday or in the event of an emergency, Licensee shall contact the Village at (630) 434-5600.
- g. Licensee shall maintain the Licensee Facilities in good repair, and in a clean and sightly condition.
- h. Upon termination of this Agreement by either party, Licensee shall, within thirty (30) days and at its expense, remove the Licensee Facilities and restore the Licensed Premises to substantially its original condition, reasonable wear and tear excepted.
- i. If Licensee abandons its use of the Licensee Facilities, Licensee shall, within thirty (30) days of receipt of written notice from the Village notifying the Licensee of such abandonment and at its expense, remove the Licensee Facilities and restore the Tower Space to substantially its original condition. The Licensee Facilities will be presumed abandoned if they are not operated for a period of one month or more. If the Licensee Facilities are not removed within thirty (30) days, the Village may remove the Licensee Facilities and Licensee shall reimburse the Village for the costs of such removal.

5. **NON-INTERFERENCE WITH VILLAGE OPERATIONS:** Neither this Agreement nor the Licensee Facilities shall interfere with or obstruct the functioning of the Village's operations and services. Licensee warrants that the Licensee Facilities shall be constructed, installed, maintained and operated in such a manner as to not interfere with or obstruct any radio or electronic equipment or signals of the Village's radio and data systems. In the event such interference occurs, and the interference cannot be eliminated by Licensee after reasonable efforts, the Village may terminate this Agreement, in accordance with Paragraph 8(b) of this Agreement. Provided, after notice to Licensee, the Village may immediately terminate this Agreement, or require that operation of the Antenna or any of Licensee's Facilities be immediately ceased where it determines that the Licensee Facilities present an immediate and serious danger to the public health, welfare or safety due to interference with the operation of the Village's radio and data systems.

6. **TERM:**

- a. This Agreement shall have an initial term beginning December 1, 2018 (the "Commencement Date") and ending December 31, 2023, and two (2) five-year extension terms (the "Extension Terms") beginning January 1, 2024, and January 1, 2029, respectively. Each Extension Term shall automatically commence unless either party provides written notice to the other party of its election not to renew this Agreement at least twelve (12) months prior to the expiration of the then current term. If all Extension Terms occur, the final expiration date of the Agreement shall be December 31, 2033.

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- b. After January 1, 2030, Licensee may request the Village to enter into negotiations towards renewing or extending this Agreement. Any renewal or extension shall be according to terms that are mutually agreeable and the Village shall not be bound to accept any particular terms or to renew any or all of the rights granted by this Agreement.
7. **COMPENSATION:** The monthly license fee for the first year of the initial term shall be Four Thousand and No/100 Dollars (\$4,000.00). Beginning on January 1, 2020, and in each subsequent year during the term of this Agreement, the monthly license fee shall increase in an amount equal to the fee for the preceding year multiplied by four percent (4%). The monthly fee shall be paid to the Village of Downers Grove, Village Hall, 801 Burlington Avenue, Downers Grove, IL 60515 each month by the 10th of the month.
8. **TERMINATION:** This Agreement may be terminated as follows:
- a. Licensee may terminate this Agreement at any time upon sixty (60) days written notice to the Village without further liability if Licensee does not obtain all permits or other approvals required from any governmental authority or any easements required from any third party to operate the PCS system, or if any such approval is canceled, expires or is withdrawn or terminated, or if the Village fails to have proper ownership of the Tower or Property or authority to enter into this Agreement, or if Licensee, for any other reason, in its sole discretion, determines that it will be unable to use the Tower or the Property; however, if Licensee terminates this Agreement without cause, it shall pay the Village a termination penalty equal to three (3) months of the current rental amount.
- b. In the event either party fails to comply with the terms of this Agreement, such party shall be considered in default and the non-defaulting party may serve written notice of its intent to terminate this Agreement. Except where the public health or safety is threatened, the notice shall give the defaulting party not less than thirty (30) days to correct such non-compliance. In the event the default is not corrected within thirty (30) days of such notice, the non-defaulting party may terminate this Agreement by serving a written notice of termination. Notwithstanding the preceding, if any default cannot be cured within thirty (30) days and the defaulting party has diligently commenced and continues to take reasonable action necessary to cure the default, the defaulting party shall be entitled to a reasonable extended period of time in order to cure the default.
- c. In the event the Tower is destroyed or substantially damaged so as to substantially affect Licensee's use of the Property, this Agreement shall be considered terminated.
9. **TOWER REPAIR/MAINTENANCE:** Upon receiving ninety (90) days' notice from the Village that it intends to repair or perform maintenance to the Tower, Licensee shall, at its own expense and in such manner as the Village shall reasonably request, immediately remove, relocate, change or alter the position of the Antenna Equipment. During the term of this Agreement, the Tower may be refurbished and/or painted. Refurbishment and/or painting will take several months to complete (approximately five to eight months). Prior to beginning refurbishment and/or

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painting, the Village will notify Licensee in writing at least ninety (90) days' prior to the beginning of the refurbishment and/or painting. Licensee shall remove its Antenna Equipment from the Tower Space on or before the expiration of the ninety (90) day notice period and shall not reinstall such equipment until the refurbishment and/or painting is completed and the Village has approved such reinstallation, which approval shall not be unreasonably withheld, conditioned or delayed. During such period, Licensee may, at its sole cost and expense, install its Antenna Equipment on a temporary telephone pole or bring a cell on wheels outside the shrouded area of the Tower in a location approved by both the Village and Licensee. However, such temporary arrangement shall not interfere with the refurbishment and/or painting of the Tower or with other Village operations on the Property. The Village shall not be responsible for any costs of removal, relocation, and reinstallation of the Antenna Equipment as a result of the refurbishment and/or painting and Licensee's obligation to pay the license fee shall abate until its commercial on-air operations are restored on the Tower.

10. RESTORATION: When the Licensee does any work on or affecting the Licensed Premises, it shall, at its own expense, restore the Licensed Premises to as good a condition as existed before the work was undertaken, unless otherwise directed by the Village. If the Licensee fails to restore the Licensed Premises, the Village may, after communications with the Licensee and after affording the Licensee a reasonable opportunity to correct the situation, restore the Licensed Premises, or remove the obstruction therefrom. No such prior written notice shall be required in the event that the Village determines that an emergency situation exists. Licensee shall pay the Village for any reasonable costs of such restoration within fourteen (14) days after receiving a bill and supporting documentation from the Village for such work.

11. UTILITIES: Licensee shall be responsible for obtaining adequate utilities for operation of the Licensee Facilities, including electricity from any source available on the Property as long as the electricity for the Licensee Facilities are separately metered. Any utilities to be installed must be underground and at a location approved by the Village, such approval not to be unreasonably withheld, conditioned or delayed. Licensee shall pay for the electricity or any other utility it uses in its operations at the rate charged by the servicing utility company and the Village shall not be liable for such charges.

12. TAXES: Licensee shall obtain a leasehold PIN and shall be solely responsible for payment of taxes on the leasehold on the Property (PIN #09-20-301-012) which are assessed as a result of Licensee's Facilities and directly attributable to its use of the Property under the terms of this Agreement. **Licensee shall provide a copy of this Agreement to the DuPage County Supervisor of Assessments and shall request and insure that the tax bill for the leasehold is sent directly to Licensee.** Licensee shall then pay the taxes owed directly to the County Assessor's Office by the due date indicated on the tax bill. Licensee shall be solely responsible to pay any late fees, interest or penalties if not paid by the due date. Licensee shall have the right, at its own expense and without expense to the Village, to contest by appropriate proceedings, conducted with due diligence and in good faith, the validity of the amount of taxes or reassessment as applicable to the Licensed Premises or the Licensee Facilities. In the event that the Village becomes aware of any tax delinquency and that delinquency is not cured by the Licensee within thirty (30) days from the date the Village sends written notice, the Village shall have the right to remove any of Licensee's

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equipment and terminate this Agreement.

13. **INDEMNIFICATION:** Licensee shall indemnify, become responsible for and hold harmless the Village, its boards, committees, commissions, officers, agents and employees from any and all liability arising out of the existence of this Agreement; the installation, existence, maintenance or repair of the Licensee Facilities, or any act or omission of Licensee, its officers, agents and employees, except for liability which arises from the Village's or its employees' or agents' negligence or intentional misconduct.

For purposes of this Agreement, the term "liability" includes, but is not limited to: actual or claimed loss or damage to property or injury to or death of persons; actual or claimed responsibility for such loss, damage, injury or death; and any and all judgments, decrees, costs and expenses of every sort and kind of incident to such loss, damage, injury, death or responsibility, including, but not limited to, court costs, fines and reasonable attorney's fees.

14. **INSURANCE:** At all times while this Agreement remains in effect, and in recognition of the indemnification provided in the foregoing Section 13, Licensee shall, at its own cost and expense, maintain a program of liability insurance and/or self-insurance as follows:

- a. During the Term of this Agreement, Licensee shall procure, pay for and maintain in full force and effect (i) workers' compensation insurance as required by law and which insures Licensee against workers' compensation claims arising out of Licensee's activities on the Tower; (ii) special causes of loss insurance covering the Licensee Facilities in an amount not less than one hundred percent (100%) of their actual replacement cost; and (iii) commercial general liability insurance, including broad form property damage insurance for bodily injuries and property damage. Such General Liability Insurance shall include coverage for the premises, operations, underground, collapse, explosion, products and the loss of use, and shall include as additional insureds the Village, and its officers, boards, commissions, elected and appointed officials, agents and employees. Such insurance shall be in the amount of One Million Dollars (\$1,000,000.00) per occurrence and Two Million Dollars (\$2,000,000.00) in the aggregate.
- b. During Construction/Installation. During construction/installation, Licensee's contractor shall also maintain and provide Village with evidence of each of the insurance coverages specified in subparagraph (a) and in the amounts so specified. In addition, the contractor shall provide builder's risk insurance on an "all risks" basis for one hundred percent (100%) of the insurable value of all construction work in place or in progress from time to time, insuring the project, including materials in storage and while in transit, against loss or damage by fire or other casualty, with extended coverage, vandalism and malicious mischief coverage, bearing a replacement cost agreed amount endorsement.
- c. Policies. The policy or policies of insurance required by subparagraphs (a) and (b) shall be underwritten by a company or companies authorized to do business in the State of

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Illinois, shall maintain a minimum A.M. Best's rating of A-VII, shall include the Village as an additional insured and a certificate of insurance shall be delivered to the Village prior to the commencement of the term of this Agreement. Licensee or, where applicable, Licensee's contractors shall furnish the Village with a written notice of any cancellation of insurance required under this Section.

15. **LIENS:** Licensee agrees that it will not permit or suffer any lien to be put upon or arise or accrue against the Property in favor of any person or persons, individual or corporate, furnishing either labor or material in any work herein proposed, and the Licensee further covenants and agrees to hold the Village and its property free from any and all liens, or rights or claim of lien, which may or might arise or accrue under or be based upon any mechanic's lien law of the State of Illinois. If any such lien or claim for lien is filed or recorded against the Property, the Village shall give Licensee notice thereof and demand that Licensee remove the same, or post adequate security to insure the removal of the same following the resolution of any dispute between Licensee and the lienholder, within thirty (30) days after receiving such notice. Nothing in this provision shall restrict Licensee from granting a security interest in all or any part of the Licensee Facilities and to file of record UCC financing statements and/or fixture filings to perfect the same.

16. **ASSIGNMENT AND SUBLEASING:** This Agreement may not be assigned or transferred without the express written consent of the Village, which shall not be unreasonably withheld, conditioned or delayed. The Village agrees to respond to any such request within thirty (30) days from receipt of the request. Any assignment or transfer without such written consent shall, at the option of the Village, be deemed to be void and of no effect. Provided, however, this Agreement may be assigned or transferred to Licensee's parent or subsidiary of its parent, successor legal entity or other affiliate of Licensee without the Village's written consent as long as the Village is given written notice of the assignment or transfer within thirty (30) days thereof.

The Village must approve any sublease to any entity that is not Licensee's parent or subsidiary, successor legal entity or other affiliate of Licensee and the Village shall be entitled to fifty percent (50%) of any sublease revenue in addition to the license fee as described in Section 7. COMPENSATION, above.

17. **HAZARDOUS SUBSTANCES:**

- a. The Village represents and warrants that it has no knowledge of any Hazardous Substance (as defined below) existing on the Property in violation of any applicable federal, State or local law, regulation or ordinance. The Village further agrees to hold Licensee harmless from and indemnify Licensee against any damage, loss or expense or liability resulting from the existence on the Property of any such Hazardous Substance(s), including all reasonable attorney's fees and consultant fees, costs and penalties, incurred as a result thereof, unless caused by Licensee or any of its employees or agents.
- b. Licensee represents and warrants that its use of the Licensed Premises will not generate any hazardous substance, and that it will not store or dispose on the Licensed Premises,

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nor transport to or over the Licensed Premises, any Hazardous Substance in violation of any applicable federal, State or local law, regulation or ordinance. Licensee further agrees to hold the Village harmless from and against and indemnify the Village against any release of such Hazardous Substance to the extent caused by Licensee, or any of its employees or agents, and any damage, loss, or expense or liability resulting therefrom, including reasonable attorney's fees and consultant fees, costs and penalties, incurred as a result thereof.

- c. "Hazardous Substance" as used herein shall mean any substance or material defined or designated as hazardous or toxic waste, hazardous or toxic materials, hazardous or toxic radioactive substance, or other similar term by any federal, State or local environmental law, regulation or ordinance presently in effect or promulgated in the future.

18. **COST OF ENFORCEMENT:** The prevailing party in any action or proceeding in court or mutually agreed upon arbitration proceeding to enforce the terms of this Agreement shall be entitled to receive its reasonable attorney's fees and other reasonable enforcement costs and expenses from the non-prevailing party.

19. **INVALIDITY:** If any section, paragraph, clause or provision of this Agreement shall be held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the other provisions of this Agreement.

20. **FORCE MAJEURE:** Neither party shall be deemed in violation of this Agreement for the delay in performance or failure to perform in whole or in part its obligations under this Agreement due to strike, war or act of war (whether an actual declaration is made or not), insurrection, riot, act of public enemy, fire, flood or other act of God or by other events to the extent that such events are caused by circumstances beyond such party's control.

21. **NOTICES:** Unless otherwise specified herein, all notices under this Agreement shall be made in writing and delivered to:

Village:

Village Manager
Village of Downers Grove
801 Burlington Avenue
Downers Grove, IL 60515
630.434-5500

With Copy to:

Village Attorney
Village of Downers Grove
801 Burlington Avenue
Downers Grove, IL 60515
630.434-5541

Site CH35095 _____

Licensee:

T-Mobile USA, Inc.
12920 SE 38th Street
Bellevue, WA 98006
Attn: Lease Compliance
Site No.: CH35095A

22. **GOVERNING LAW:** This Agreement shall be governed by the laws of the State of Illinois.

23. **MISCELLANEOUS.**

- a. If any term of this Agreement is found to be void or invalid, the remaining terms of this Agreement shall continue in full force and effect. Any questions of particular interpretation shall be interpreted as to their fair meaning.
- b. This Agreement and the interests granted herein shall run with the land, and shall be binding upon and inure to the benefit of the parties, their respective successors, personal representatives and assigns.
- c. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute a single instrument. Signed facsimile and electronic copies of this Agreement shall legally bind the parties to the same extent as original documents.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the _____ day of _____, 2018.

LICENSEE:
T-MOBILE CENTRAL LLC,
a Delaware limited liability company

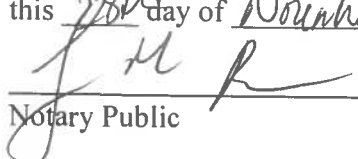
By: 
Title: **Faisal Afridi**
Senior Director
Engineering & Operations

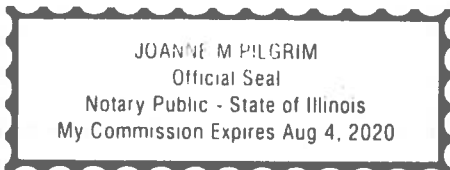
VILLAGE OF DOWNERS GROVE

By: _____
Village Manager

ATTEST:

Village Clerk

Subscribed and sworn to
this 28th day of November, 2018.

Notary Public



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Site CH35095 _____

EXHIBIT 1

Site CH35095 _____

EXHIBIT 2



TRILEAF
ARCHITECTURE
& ENGINEERING

1201 WALDEN OFFICE BUILDING
SUITE 110
SCHMIDT ROAD
PHILADELPHIA, PA 19104
PH: (215) 227-8282 F: (215) 227-1212

ANTENNA & TOWER CONSTRUCTION

- THIS SECTION INCLUDES THE INSTALLATION OF SHIP LASH, MICROWAVE ANTENNA, AND WAVEGUIDE BRACKETS AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.
- ANTENNA CONTRACTOR SHALL VERIFY ALL REQUIREMENTS WITH CELL PROVIDERS REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION.
- PROVIDE MATERIAL AND LABOR TO INSULATE GROUNDING NOTES.
- ANTENNA CONTRACTOR SHALL PERFORM ALL NECESSARY FIELD TEST, INCLUDING SWEEP TEST SECTION.
- THE FOLLOWING REGULATORY AGENCIES APPLY TO THIS SECTION:
 - FEDERAL COMMUNICATIONS COMMISSION (FCC) PART 17.15A, HIGH INTENSITY DIRECTIONAL BROADCASTING SPECIFICATIONS FOR ANTENNA STRUCTURES AND IN ALL CASES PART 17.1 AND 22.
 - FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR AC 70-7460-10, OBSTRUCTION OR MASSING AND LIGHTING IN ALL CASES PART 77.
 - FCC FEDERAL COMMUNICATIONS COMMISSION RULES AND REGULATIONS FORM # 71.5, OBSTRUCTION MARKING AND LIGHTING SPECIFICATIONS FOR ANTENNA STRUCTURES AND FORM # 71.5A, HIGH INTENSITY DIRECTIONAL BROADCASTING SPECIFICATIONS FOR ANTENNA STRUCTURES AND IN ALL CASES PART 17.1 AND 22.
 - AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION LIGHTING
 - NEC NATIONAL ELECTRICAL CODE, FOR TOWER LIGHTING
 - UL UNDERWRITERS LABORATORIES.
 - NFPA 101 LIFE SAFETY CODE

STRUCTURAL NOTES

- ALL DESIGN AND CONSTRUCTION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODES (IBC), IF A CONFLICT BETWEEN THE CODES THE MOST RESTRICTIVE CODE APPLIES.
- DO NOT SCALE DRAWINGS
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS AND MOUNT DIMENSIONS PER DRAWINGS PRIOR TO STARTING ANY CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE A MIN. OF TWO COPIES OF ALL SHOP DRAWINGS TO THE ARCHITECT OR ENGINEER FOR APPROVAL PRIOR TO STARTING ANY INSTALLATION.
- GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LOCATIONS, SECTIONS AND DETAIL BETWEEN THESE DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY TRENCHES, BRACKETS, STRINGS, OR ANY OTHER MEANS TO AVOID EXCESSIVE SPACING, OR AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL SIZES, LOCATIONS AND NUMBER OF FLOOR AND ROOF OPENINGS PRIOR TO STARTING ANY WORK.

GENERAL NOTES

- OBTAIN PERMITS AND PAY FEES RELATED TO ELECTRICAL WORK PERFORMED ON THIS PROJECT. DULVER COPIES OF ALL PERMITS TO T-MOBILE.
- SCHEDULE AND ATTEND INSPECTIONS RELATED TO ELECTRICAL WORK REQUIRED BY JURISDICTION (HAVING JURISDICTION, CORRECT AND PAY FOR ANY WORK REQUIRED TO PASS ANY TAILED INSPECTION).
- PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS IN THREE RING BINDER, AS SHOWN ON THESE DRAWINGS.
- FURNISH AND INSTALL THE COMPLETE ELECTRICAL SYSTEM, PIPER SYSTEM, AND THE GROUNDING SYSTEM AS SHOWN ON THESE DRAWINGS.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER AND SHALL BE SUBJECT TO APPROVAL BY T-MOBILE.
- CONDUCT A PRE-CONSTRUCTION SITE VISIT AND VERIFY EXISTING SITE CONDITIONS AFFECTING THE WORK. REPORT ANY OMISSIONS OR DISCREPANCIES FOR CLARIFICATION PRIOR TO THE START OF CONSTRUCTION.
- PROTECT ADJACENT STRUCTURES AND FINISHES FROM DAMAGE. REPAIR TO ORIGINAL CONDITION ANY DAMAGED AREA.
- REMOVE DEBRIS ON A DAILY BASIS. DEBRIS NOT REMOVED IN A TIMELY MANNER WILL BE REMOVED BY OTHERS AND THE RESPONSIBLE SUBCONTRACTOR SHALL BE CHARGED ACCORDINGLY. REMOVAL OF DEBRIS SHALL BE COORDINATED WITH THE SITE OWNERS REPRESENTATIVE. DEBRIS NOT REMOVED FROM THE PROPERTY AND DISPOSED OR LOCALLY USE OF THE PROPERTY'S DUMPSTER IS PROHIBITED.
- CONTRACTOR TO CONFIRM AVAILABLE CAPACITY AT EXISTING UTILITY PROVIDED BY THE ENGINEER OF SERVICE SIZE AND FAULT CURRENT LEVEL.
- IF WIRETRAIL DOES NOT HAVE ADEQUATE CAPACITY, CONTRACTOR SHALL SUBMIT A PROPOSAL FOR UPGRADE. UPON APPROVAL OF SUBSTITUTION QUOTATION, THE CONTRACTOR SHALL PROVIDE PROPOSED SERVICE ONLY OR UPGRADE SERVICE. CONDUITS AND EQUIPMENT/ELECTRODE GROUNDING CONDUIT SIZES ACCORDINGLY.
- CONTRACTOR SHALL VERIFY SEPARATION DIMENSION BETWEEN POWER COMPANY ELECTRICAL CONDUITS AND NEG. NFPA AND GAS TANK MANUFACTURERS SPECIFICATION.
- CONTRACTOR SHALL VERIFY THAT THE TOTAL NUMBER OF SERVICE DISCONNECTS IN THE EXISTING UTILITY COMPANY TRUSS STRUCTURE DOES NOT EXCEED THE PROPOSED SERVICE ADDS EXCEEDS THIS VALUE. CONTRACTOR MUST COORDINATE WITH THE UTILITY COMPANY AND AUTHORITY HAVING JURISDICTION, THE SERVICE LATERAL SET FOR ALL EXCLUSIVE AND DEDICATED SERVICE TO THE COMPOUND AS PER NEC ARTICLE 230.2 (B).
- THE EQUIPMENT/ PROTECTIONS MUST BE RATED FOR STANDARD AIR RATE HIGHER THAN THE AIR RATE EQUIPMENT AND/OR UTILITY COMPANY AIR RATE.

ELECTRICAL NOTES

- REFERENCE T-MOBILE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES FOR GENERAL ELECTRICAL REQUIREMENTS.
- WIRING SHALL BE AWG STRANDED COPPER WITH THIN INSULATION. SIGNAL WIRING SHALL BE INSTALLED IN #22 AWG. NO BX OR ROMEX CABLE IS PERMITTED. CONDUITS SHALL BE SURFACE MOUNTED.
- WIRING DEVICES AND EQUIPMENT SHALL BE UL LISTED SPECIFICATIONS GRADE.
- MATERIALS SHALL BE PROPOSED AND CONFORM TO THE APPLICABLE STANDARDS LISTED BELOW FOR EACH ITEM BY THE ORGANIZATION LISTED BELOW. UNDERWRITER LABORATORY (UL) - NATIONAL ELECTRICAL SAFETY ASSOCIATION (NEMA) - AMERICAN STANDARDS ASSOCIATION (ANSI) - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
- INSTALLATION OF MATERIALS SHALL COMPLY WITH REGULATORY CODES AND LOCAL ORDINANCES (NFPA 70) - THE NATIONAL ELECTRICAL CODE (NEC) - THE LIFE SAFETY CODE (NFPA 101) - LOCAL BUILDING CODES.
- THE ENTIRE SYSTEM SHALL BE SOLIDLY GROUNDING USING LOGCUTS AND BONDING NUTS ON ALL CIRCUITS AND PROPERLY BONDING GROUND CONDUCTOR. ALL DEVICES AND EQUIPMENT BRANCH CIRCUITS SHALL BE INSTALLED WITH A FULL-SIZE EQUIPMENT GROUNDING CONDUCTOR RUN IN THE CIRCUITS CONDUIT.
- OUTLET AND JUNCTION BOXES SHALL BE ZINC COATED OR COATED WITH AN EQUAL OR BETTER FINISH. ALL OUTLET AND JUNCTION BOXES SHALL BE SURFACE MOUNTED AND LABELED WITH BRANCH CIRCUIT BREAKER NUMBER.
- LABEL ALL EQUIPMENT SERVED FROM T-MOBILE PANEL BOARD WITH PHENOLIC LABELS SIZED IN RELATION TO USAGE.
- INDOOR CONDUCTORS SHALL BE INSTALLED IN RWT UNLESS NOTED OTHERWISE OUTDOOR CONDUCTORS SHALL BE INSTALLED IN RIGID GALVANIZED STEEL UNLESS NOTED OTHERWISE. WHERE EMT IS USED, IT SHALL BE WITH AN EMT CONDUIT CONNECTION FITTINGS. NO SET SCREW FITTINGS SHALL BE ALLOWED.
- CONTRACTOR IS TO PROVIDE AND INSTALL ENGRAVES LABEL ON THE T-MOBILE METR SOCKET ENCLOSURE.
- CONTRACTOR IS TO OBTAIN ALL PERMITS, PAY PERMITS FEES, AND BE RESPONSIBLE FOR SCHEDULING INSPECTIONS. THE CONTRACTOR IS TO OBTAIN LOCAL COORDINATE WITH TELEPHONE COMPANY APPROVAL & COORDINATE WITH TELEPHONE COMPANIES SERVICE ENTRANCE REQUIREMENTS.

SITE NAME
FIRE STATION #5 TANK

SITE #
CH35095A

SITE ADDRESS
6701 MAIN ST. DOWNERS GROVE, IL 60516

PROJECT NUMBER
626313

NO.	DATE	REVISION	BY	APP.
1	8/30/16	ISSUED FOR REVIEW REV A	RL	RL
2	12/14/16	REVISED CON REV B	RF	RF
3	1/27/17	FINAL CON REV D	RF	RF
4	1/12/18	ISSUED FOR REVIEW ONLY	DO	DO

GENERAL NOTES
(CONTINUED)

SHEET NUMBER
N-11

T-Mobile
1800 W. BROADWAY, SUITE 100
CHICAGO, IL 60604
1776 411 4466

TRILEAF
ARCHITECTURE
& ENGINEERING
1821 WALDEN OFFICE SUITE
SCHAUMBURG, IL 60193
PH: (630) 227-6262 F: (630) 227-2122

SITE NAME	FIRE STATION #5 TANK
BITE ID	CH35095A
SITE ADDRESS	6705 MAIN ST. DOWNERS GROVE, IL 60510
PROJECT NUMBER	626313

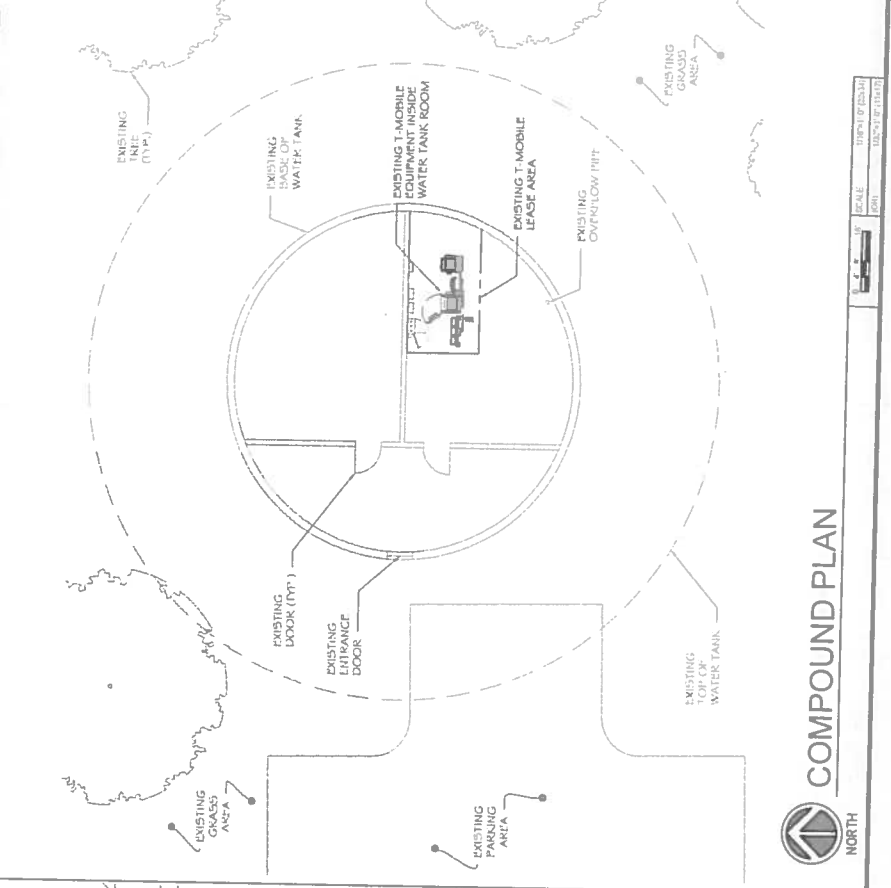
DATE	BY	REVISION
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02/12/19	SP	FINAL CDS REV 0
02/12/19	SP	REVISED CDS REV 0
02/12/19	SP	REVISED CDS REV 0
02/12/19	SP	REVISED FOR REVIEW ONLY

REVISION THIS SHEET
 1. REVISION THIS SHEET
 2. REVISION THIS SHEET
 3. REVISION THIS SHEET
 4. REVISION THIS SHEET
 5. REVISION THIS SHEET

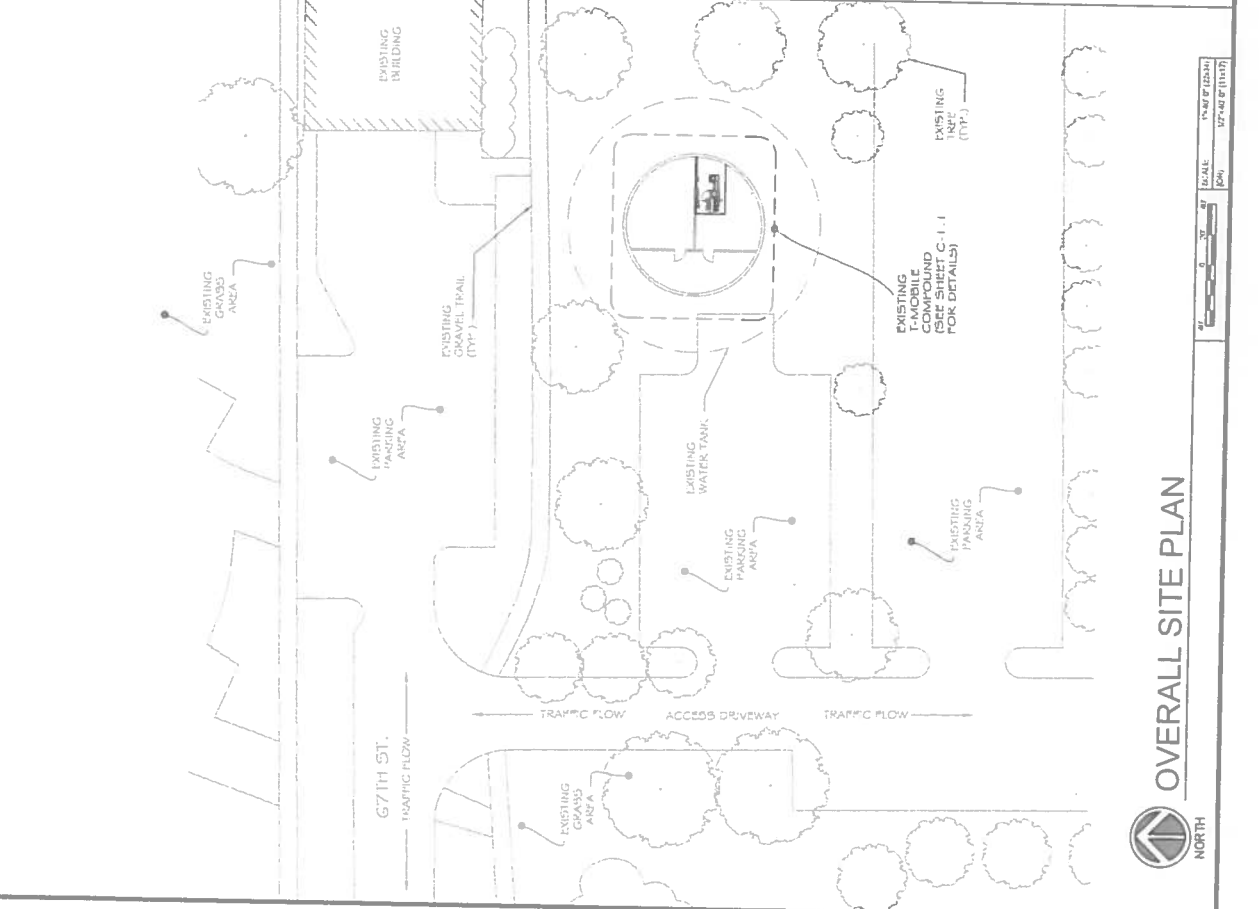
NOTE:
 1. GENERAL CONTRACTOR WILL NOT START CONSTRUCTION UNTIL AFTER THEY HAVE RECEIVED ALL NECESSARY PERMITS AND HAVE A PRE-CON WALK WITH THE PROJECT MANAGER.
 2. GENERAL CONTRACTOR TO HIRE PUBLIC (G.I.) AND PRIVATE LOCATING SERVICE IN SURFACE UTILITIES AND PROTECT ALL UTILITIES FROM DAMAGE DURING THE PROJECT.
 3. CONTRACTOR SHALL VERIFY ALL EXISTING BURIED AND OVERHEAD UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPAIR ALL DAMAGED UTILITIES AND COORDINATE ANY REPAIRS WITH RESPECTIVE UTILITY COMPANY.
 4. CONTRACTOR TO VERIFY ALL HEIGHTS AND AZIMUTHS TO CONSTRUCTION ENGINEERING FIRM OF ANY DISCREPANCIES BEFORE PROCEEDING.
 5. CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION.
 6. NO UPDATED SURVEY HAS BEEN PERFORMED. PROPERTY IMPROVEMENT DEFINITIONS ARE APPROXIMATE LOCATIONS.

NOTE:
 THESE DRAWINGS WERE PREPARED BASED ON EXISTING DRAWINGS AND INFORMATION PROVIDED BY T-MOBILE. ALL EXISTING UTILITIES SHOULD BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND, CONTACT THE T-MOBILE ENGINEER.

NOTE:
 1. OBTAIN CURRENT RPTDS WITHIN 48 HOURS PRIOR TO CONSTRUCTION
 2. FOLLOW FORT MATRIX PER RPT CONFIGURATION
 3. FOLLOW CURRENT T-MOBILE STANDARDS AND OPERATING PROCEDURES
 4. RETURN ALL UNUSED PROPOSED & USED EQUIPMENT/MATERIALS TO GTO IN THE SAME CONDITIONS WHEN IT WAS REMOVED
 5. PROVIDE CLOSOUT DOCUMENT WITHIN 72 HRS. AFTER SITE COMPLETION



COMPOUND PLAN
 NORTH



OVERALL SITE PLAN
 NORTH

SCALE: 1" = 40' (TYP.)
 SCALE: 1" = 20' (TYP.)

T-Mobile
 1718 WEST WASHINGTON AVE
 CHICAGO, IL 60611
 (773) 424-4000

TRILEAF
 ARCHITECTURE & ENGINEERING
 1801 WALDEN DRIVE, SUITE 100
 SCHLAUSBURG, IL 61113
 PH: (815) 271-0282 F: (815) 271-1912

NOTE:
 - INSTALL PROPOSED #6 GREEN GROUND FOR ALL PROPOSED RADIOS
 - INSTALL PROPOSED #6 AWG GROUND JUNCTION FOR PROPOSED LTE PCS PSMP, GSM ESMB AND GSM PXPB
 - INSTALL PROPOSED RFI JUMPFERS

(5) MODULES ARRANGEMENT ON PROPOSED STEEL CUBE:
 (1) PXPB GSM
 (1) PSMP LTE PCS
 (1) PSMP LTE AWS4700 W/ 2 PDBC
 (1) PSMP UMTS PCS W/ 1 PDBA
 (1) ESMB GSM

NOTE:
 - INSTALL (4) PROPOSED 3/4" METALLIC SEALTIGHT FROM PDBA HOFFMAN BOX ON STEEL CUBE TO SYSTEM TELCO
 - INSTALL (1) BLUE #6 AWG AND (1) BLACK #6 AWG FOR PROPOSED LTE PCS PSMP, GSM ESMB, UMTS PCS PSMP, LTE AWS4700 PSMP POWER
 - INSTALL DC CABLE BETWEEN ESMB TO PXPB GSM

NOTE:
 - INSTALL (1) 2" RIGID PIPE TO THE HOFFMAN BOX ON PDBA HOFFMANPOST TO THE HOFFMAN BOX ON 55C FOR POWER
 - INSTALL (1) 3/4" METALLIC SEALTIGHT PER FRBG FOR POWER
 - INSTALL (1) BLUE #6 AWG AND (1) BLACK #6 AWG IN METALLIC SEALTIGHT PER FRBG FOR POWER
 - INSTALL (1) PROPOSED 25A DC BREAKER PER FRBG IN 55C
 - INSTALL (1) PROPOSED #6 GREEN GROUND PER FRBG NOTING TO BE SEALTIGHT ON AND CLEAR CAULK AT THE END BY THE LUG

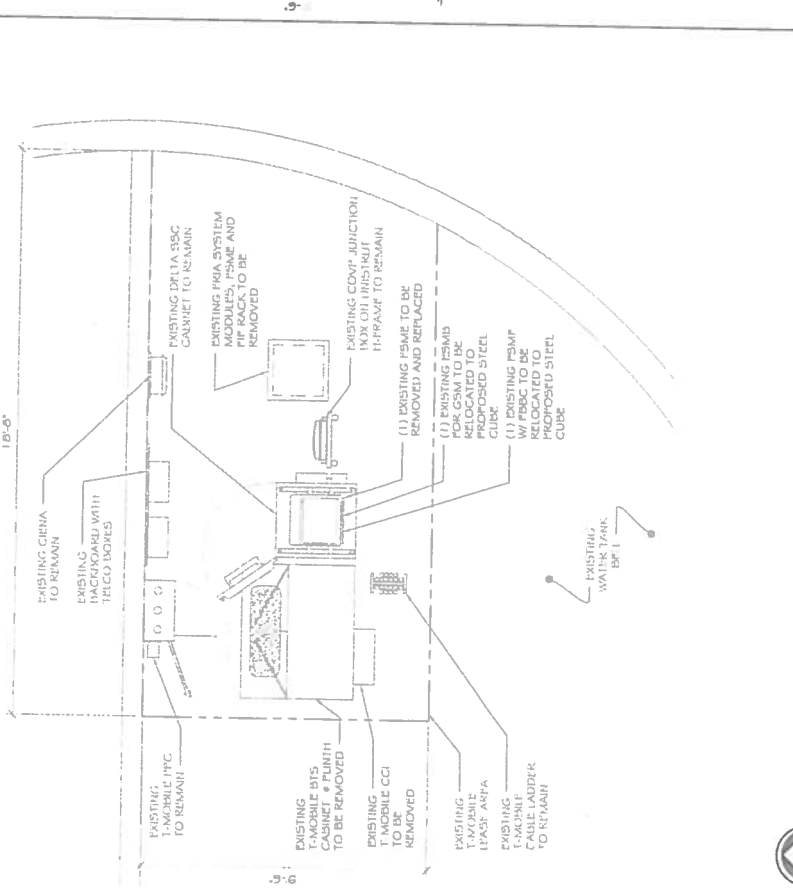
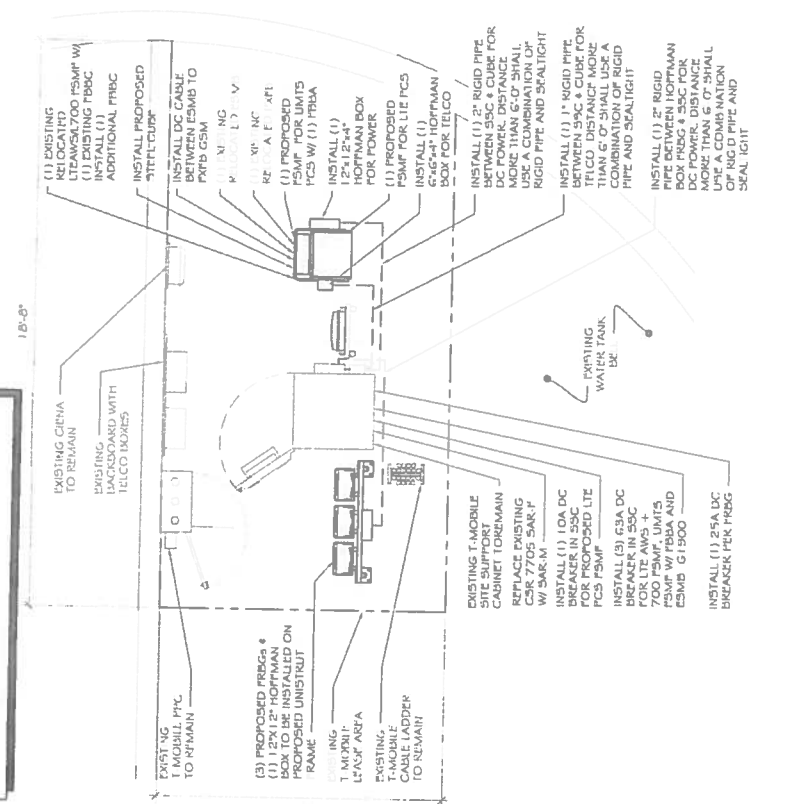
NOTE:
 - REUSE (1) 2" COAX LINES, PDBA & POST SWEETFIT
 - INSURE ALL CABLES ARE PASSING THROUGH RFI JUMPFERS FOR PROPOSED & RELOCATED ANTENNAS
 - SWEETFIT TEST EXISTING COAX LINES & ANTENNAS USED FOR FINAL BUILD
 - INSURE EXISTING GROUNDS AS NEEDED FOR FINAL BUILD

NOTE:
 THESE DRAWINGS WERE PREPARED BASED ON EXISTING DRAWINGS AND INFORMATION PROVIDED BY T-MOBILE. ALL EXISTING CONDITIONS SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND, CONTACT THE T-MOBILE ENGINEER.

SITE NAME: FIRE STATION #5 TANK	
SITE ID: CH35095A	6701 MAIN ST DOWMERS GROVE, IL 60516
PROJECT NUMBER: 626313	

NO.	DATE	DESCRIPTION
1	11/21/16	ISSUED FOR REVIEW ONLY
2	12/14/16	REVISED FOR REVISED PSMP FOR UMTS
3	1/24/17	REVISED FOR REVISED PSMP FOR UMTS
4	8/30/16	ISSUED FOR REVIEW ONLY
5	11/21/16	ISSUED FOR REVIEW ONLY
6	11/21/16	ISSUED FOR REVIEW ONLY
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18	11/21/16	ISSUED FOR REVIEW ONLY
19	11/21/16	ISSUED FOR REVIEW ONLY
20	11/21/16	ISSUED FOR REVIEW ONLY

EXISTING & PROPOSED EQUIPMENT PLAN
 SHEET NUMBER: **C-1.1**



PROPOSED EQUIPMENT PLAN
 NORTH
 SCALE: 1/8" = 1'-0"

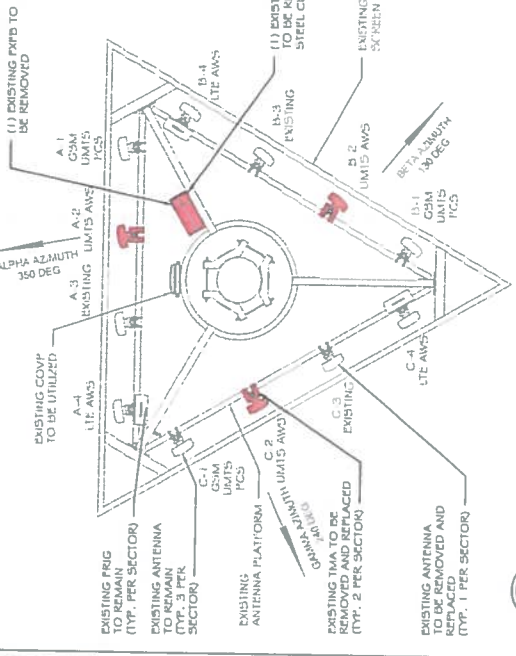
EXISTING EQUIPMENT PLAN
 NORTH
 SCALE: 1/8" = 1'-0"

T-Mobile
 1714 S. 10th Ave.
 Suite 100
 Lincoln, NE 68502
 (402) 441-8800

TRILEAF
 ARCHITECTURE
 & ENGINEERING
 1821 WALDEN OFFICE SUITE 519
 SCHLAUBURG, NE 68413
 PH: (402) 277-8392 F: (402) 271-1312

LEGEND

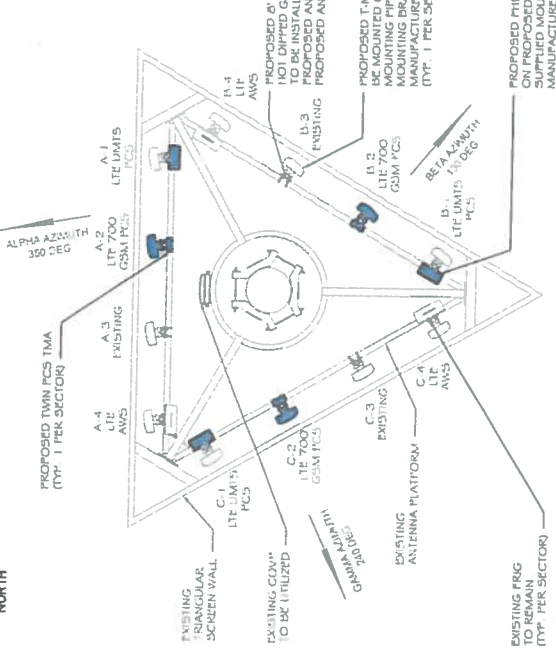
- TMA TO BE REMOVED
- PIPS TO BE REMOVED
- ANTENNA TO BE REMOVED



EXISTING ANTENNA LAYOUTS

LEGEND

- PROPOSED TMA
- PROPOSED PIPES
- PROPOSED ANTENNA



PROPOSED ANTENNA LAYOUTS

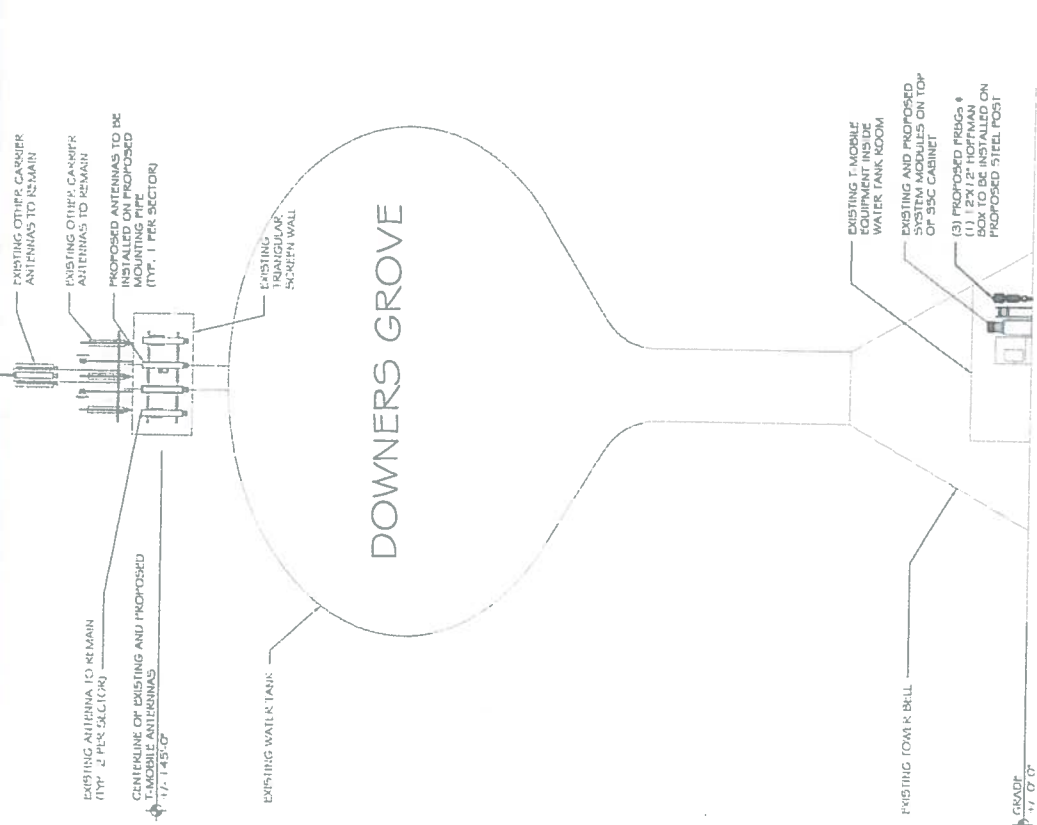
LEGEND

- PROPOSED TMA
- PROPOSED PIPES
- PROPOSED ANTENNA



NOTE: THESE DRAWINGS WERE PREPARED BASED ON EXISTING DRAWINGS AND INFORMATION PROVIDED BY T-MOBILE. ALL EXISTING CONDITIONS SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND, CONTACT THE T-MOBILE ENGINEER.

NOTE: STRUCTURAL EVALUATION OF THE T-MOBILE ANTENNA FRAMES AND MOUNTS IS NOT WITHIN THE SCOPE OF WORK. NO WORK IS TO BE DONE WITHOUT AN APPROVED STRUCTURAL OTHERS.



NOTE: THESE DRAWINGS WERE PREPARED BASED ON EXISTING DRAWINGS AND INFORMATION PROVIDED BY T-MOBILE. ALL EXISTING CONDITIONS SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND, CONTACT THE T-MOBILE ENGINEER.

NOTE: STRUCTURAL EVALUATION OF THE T-MOBILE ANTENNA FRAMES AND MOUNTS IS NOT WITHIN THE SCOPE OF WORK. NO WORK IS TO BE DONE WITHOUT AN APPROVED STRUCTURAL OTHERS.

ELEVATION

SCALE: 1/4" = 1'-0"

DATE: 11-29-17
 11-29-17

SITE NAME: FIRE STATION #5 TANK

SITE #1: CH35095A

SITE ADDRESS: 6701 MAIN ST. DOWNERS GROVE, IL 60516

PROJECT NUMBER: 626313

DATE: 11/29/17

SCALE: 1/4" = 1'-0"

ELEVATION & ANTENNA LAYOUTS

A-1.0

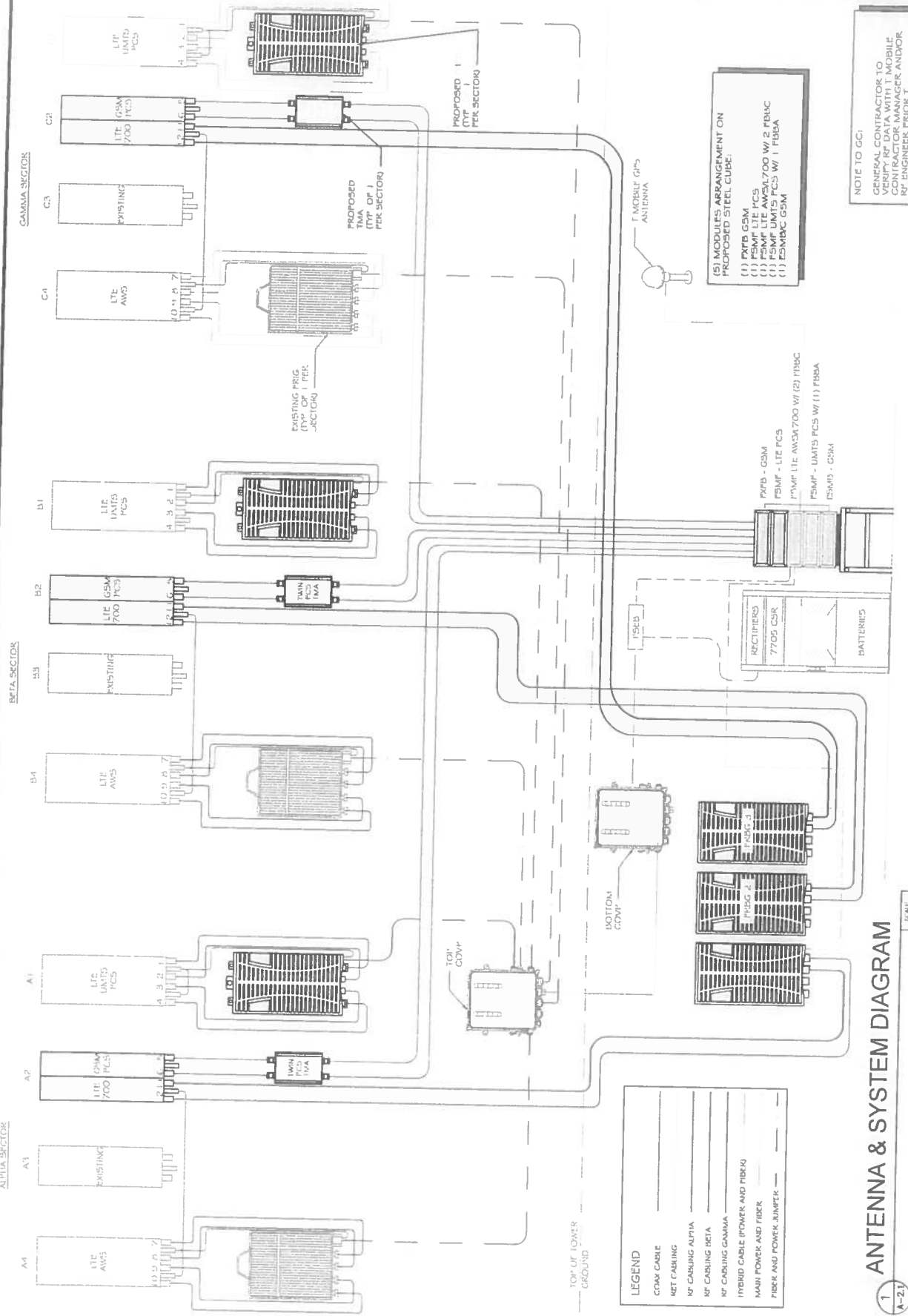
T-Mobile
 883 W. BROADWAY AVENUE
 CHICAGO, IL 60611
 (773) 544-5400

TRILEAF
 ARCHITECTURE & ENGINEERING
 1021 WALDEN DRIVE - SUITE
 SHELTON, ILL. 62551
 PH: (618) 227-8263 F: (618) 227-1212

SITE NAME: FIRE STATION #5 TANK
 SITE #7: CH35095A
 ADDRESS: 6701 MAIN S
 DOWNERS GROVE E, IL
 PROJECT NUMBER: 626313

REV	DATE	DESCRIPTION
1	11/19/18	ISSUED FOR REVIEW ONLY
2	1/10/19	REVISED FOR REVIEW ONLY
3	1/10/19	REVISED FOR REVIEW ONLY
4	1/10/19	ISSUED FOR REVIEW ONLY
5	1/10/19	ISSUED FOR REVIEW ONLY

SHEET DESCRIPTION: ANTENNA & SYSTEM DIAGRAM
 SHEET NUMBER: A-2.1



NOTE TO GC:
 GENERAL CONTRACTOR TO VERIFY RF DATA AND ANTENNA CONSTRUCTION WITH MOBILE CONTRACTOR MANAGER AND/OR RF ENGINEER PRIOR TO INSTALLATION

(5) MODULES ARRANGEMENT ON PROPOSED STEEL CUBE:
 (1) PNB - GSM
 (1) PSMP - LTE - PCS
 (1) PSMP - LTE - AWS/700 W/ 2 PNB
 (1) PSMP - UMTS - PCS W/ 1 PNB
 (1) PSMP - GSM

LEGEND
 COAX CABLE
 RFT CABLE
 RF CABLE ALPHA
 RF CABLE BETA
 RF CABLE GAMMA
 HYBRID CABLE (POWER AND FIBER)
 MAIN POWER AND FIBER
 FIBER AND POWER JUMPER

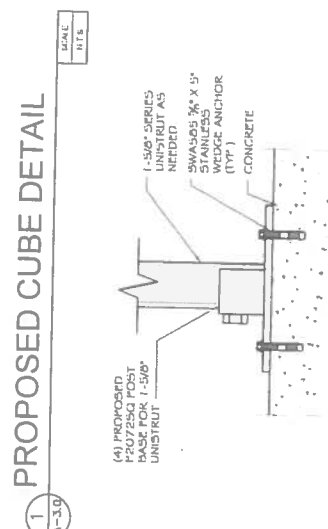
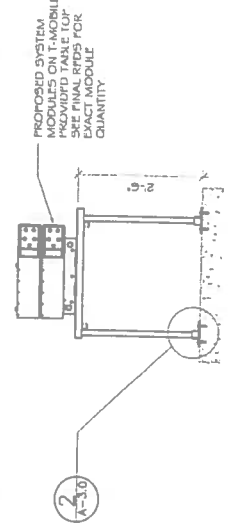
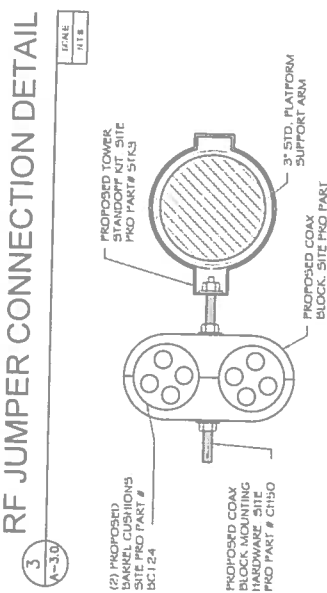
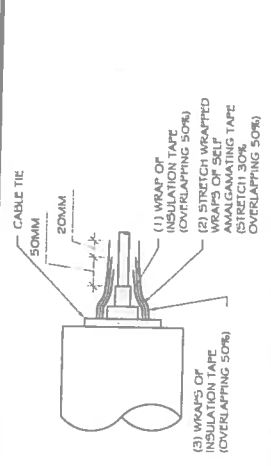
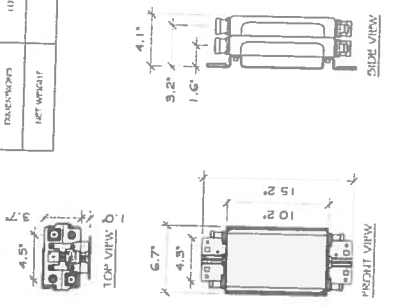
ANTENNA & SYSTEM DIAGRAM
 SCALE: 1/8" = 1'-0"
 1 A-2.1

T-Mobile
 8800 W. BROADWAY AVE
 CHICAGO, IL 60612
 (773) 444-8400

TRILEAF
 ARCHITECTURE
 & ENGINEERING
 101 WALDEN OFFICE QUARE
 SUITE 510
 SCHLUMBERGER CENTER
 PH: (800) 227-8202 F: (800) 227-1212

SIT NAME	FIRE STATION #5 TANK																																	
SIT ID	CH35095A																																	
SIT ADDRESS	6701 MAIN ST DOWNERS GROV, IL 60518																																	
PROJECT NUMBER	626313																																	
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REVISIONS	<table border="1"> <tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td>1</td><td>11/07/8</td><td>ISSUED FOR REVIEW ONLY</td></tr> <tr><td>2</td><td>11/07/8</td><td>ISSUED FOR REVIEW ONLY</td></tr> <tr><td>3</td><td>11/07/8</td><td>ISSUED FOR REVIEW ONLY</td></tr> <tr><td>4</td><td>11/07/8</td><td>ISSUED FOR REVIEW ONLY</td></tr> <tr><td>5</td><td>11/07/8</td><td>ISSUED FOR REVIEW ONLY</td></tr> <tr><td>6</td><td>11/07/8</td><td>ISSUED FOR REVIEW ONLY</td></tr> <tr><td>7</td><td>11/07/8</td><td>ISSUED FOR REVIEW ONLY</td></tr> <tr><td>8</td><td>11/07/8</td><td>ISSUED FOR REVIEW ONLY</td></tr> <tr><td>9</td><td>11/07/8</td><td>ISSUED FOR REVIEW ONLY</td></tr> <tr><td>10</td><td>11/07/8</td><td>ISSUED FOR REVIEW ONLY</td></tr> </table>	NO.	DATE	DESCRIPTION	1	11/07/8	ISSUED FOR REVIEW ONLY	2	11/07/8	ISSUED FOR REVIEW ONLY	3	11/07/8	ISSUED FOR REVIEW ONLY	4	11/07/8	ISSUED FOR REVIEW ONLY	5	11/07/8	ISSUED FOR REVIEW ONLY	6	11/07/8	ISSUED FOR REVIEW ONLY	7	11/07/8	ISSUED FOR REVIEW ONLY	8	11/07/8	ISSUED FOR REVIEW ONLY	9	11/07/8	ISSUED FOR REVIEW ONLY	10	11/07/8	ISSUED FOR REVIEW ONLY
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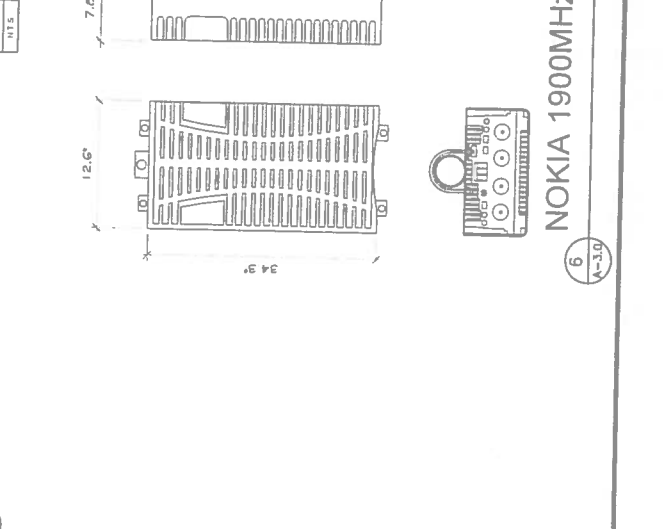
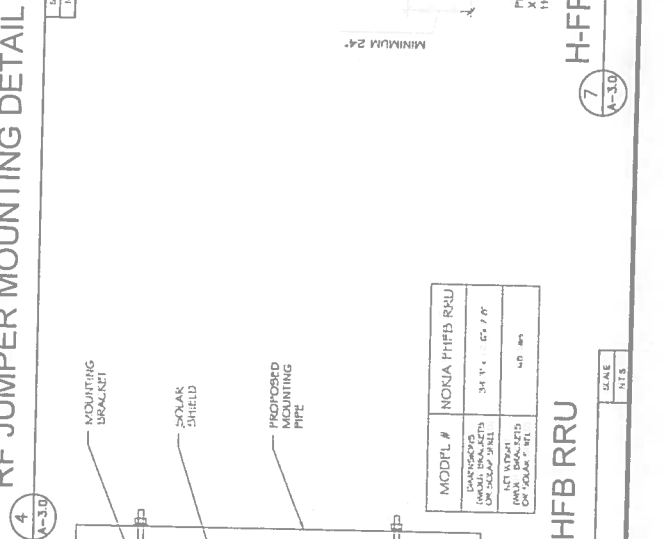
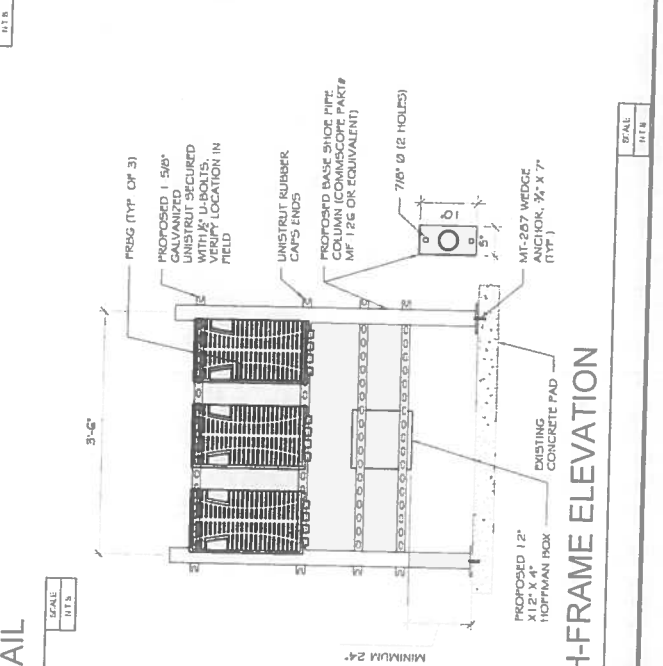
MODEL #	ETW190VS12UB
FRONT VIEW	(SEE PAGE 7) 1/2"
LEFT VIEW	1/4"



6 A-3.0 TMA ETW190VS12UB DETAIL

3 A-3.0 RF JUMPER CONNECTION DETAIL

1 A-3.0 PROPOSED CUBE DETAIL



MODEL #	NOKIA FHFB RRU
FRONT DIMENSIONS	34" W x 12" H
REAR DIMENSIONS	34" W x 12" H
WEIGHT	4.0 lbs

7 A-3.0 H-FRAME ELEVATION

6 A-3.0 NOKIA 1900MHz FHFB RRU

Site CH35095_____

EXHIBIT 3