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**REVOCABLE LICENSE AGREEMENT**  
(TELECOMMUNICATIONS)  
BY AND BETWEEN

The Board of Education of the City of Chicago, as Licensor

*AND*

NEW CINGULAR WIRELESS PCS, LLC, a Delaware limited liability company, as Licensee

**PROPERTY ADDRESS:**

TALCOTT FINE ARTS & MUSEUM ACADEMY  
1840 West Ohio Street  
Chicago, Illinois 60622

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# REVOCABLE LICENSE AGREEMENT

## ARTICLE 1

### Definition of Terms Used in this Document

- 1.1 Licensor**  
The Board of Education of the City of Chicago
- 1.2 Licensor's Address for Notices**  
The Board of Education of the City of Chicago  
Real Estate Department  
125 S. Clark, Suite 1700  
Chicago, Illinois 60603  
Attention: Director of Real Estate  
Telephone: (773) 553-2950  
Telecopier: (773) 553-2951  
  
**with a copy to:**  
The Board of Education of the City of Chicago  
125 S. Clark, 7<sup>th</sup> Floor  
Chicago, Illinois 60603  
Attention: General Counsel  
Telephone: (773) 553-1700  
Telecopier: (773) 553-1701
- 1.3 Name & Address for Payment of License Fee**  
Mancel Talcott Elementary School  
1840 West Ohio Street  
Chicago, Illinois 60622  
Attention: Principal
- 1.4 Licensee**  
NEW CINGULAR WIRELESS, PCS, LLC, a  
Delaware limited liability company
- 1.5 Licensee's Address for Notices**  
New Cingular Wireless PCS, LLC  
Attn: Network Real Estate Administration  
Re: Cingular Wireless Cell Site IL 0972  
Cell Site Name: Talcott School  
12555 Cingular Way  
Suite 1300  
Alpharetta, GA 30004  
  
**with a copy to:**  
New Cingular Wireless PCS, LLC  
Attn: Legal Department  
Re: Cingular Wireless Cell Site IL 0972  
Cell Site Name: Talcott School  
15 E. Midland Avenue  
Paramus, NJ 07652
- 1.6 Building Address**  
Mancel Talcott Elementary School  
1840 West Ohio Street  
Chicago, Illinois 60622
- 1.7 Commencement Date**  
August 1, 2012
- 1.8 Initial Term**  
Four (4) years
- 1.9 Term**  
The Initial Term and Renewal Terms as described  
in Section 2.
- 1.10 Initial License Fee**  
\$ 24,000 payable annually
- 1.11 License**  
The non-exclusive right to install ("License"), for the  
transmission and reception of communications  
signals, on the smokestack of the Building  
(Smokestack"), no more than twelve (12) antennas  
("Antennas") and twenty four (24) coaxial lines and  
on the roof ("Roof") of the Building an equipment  
platform with dimensions no greater than ten (10)  
feet by twenty (20) feet ("Platform"), on which  
Licensee may install its equipment cabinets  
("Equipment Cabinets"), together with support  
beams for the Platform, as structurally necessary,  
and cable runs ("Cable Runs") running among the  
Platform, the Antennas, and the utilities, which  
Cable Runs shall be affixed to the nearest  
contiguous structure, all as depicted in the  
construction drawings, which construction drawings  
("Drawings") have been signed and certified by a  
professional licensed to practice architecture or  
engineering in the State of Illinois ("Professional"),  
a site plan of which Drawings are attached as  
Exhibit "A", and no other rights or purposes  
whatsoever.

## ARTICLE 2

### Term

**2.1 Initial Term.** Licensor hereby licenses to Licensee and Licensee hereby licenses from Licensor, upon and subject to the terms, covenants, and conditions of this License Agreement during the Initial Term the non-exclusive right to install on the Roof of the Building, the Antennas, the Platform, the Cable Runs and the Equipment Cabinets (collectively, "Licensee's Equipment") in accordance with the provisions of this Agreement.

**2.2. Three Year Renewal Terms.** THE INITIAL TERM OF THIS LICENSE AGREEMENT SHALL BE AUTOMATICALLY RENEWABLE FOR FOUR (4) ADDITIONAL TERMS OF THREE (3) YEARS EACH (THE "RENEWAL TERMS") AT THE LICENSE FEE STATED IN EXHIBIT "B" AND OTHERWISE UPON THE SAME TERMS AND CONDITIONS STATED IN THIS LICENSE AGREEMENT. IF LICENSEE DOES NOT DESIRE TO RENEW ANY TERM OF THIS LICENSE AGREEMENT, LICENSEE SHALL DELIVER WRITTEN NOTICE TO LICENSOR AT LEAST SIXTY (60) DAYS PRIOR TO THE EXPIRATION OF THE THEN CURRENT TERM, WHEREUPON THE LICENSE AGREEMENT SHALL EXPIRE UPON THE EXPIRATION OF THE THEN CURRENT TERM.

## ARTICLE 3

### License Fee

**3.1 Payment.** Licensee shall pay the License Fee to Licensor promptly when due, without notice or demand therefore, and without any abatement, deduction or setoff for any reason whatsoever.

**3.2 First License Fee Payment and Processing Fee.** Upon execution of this License Agreement by Licensee, Licensee shall pay Licensor the License Fee for the first twelve (12) full calendar months of the Initial Term and a Processing Fee in the amount of twelve (12) months' License Fee, which Processing Fee shall be sent to the Real Estate Department of the Licensor (See Section 1.2).

**3.3 Subsequent Annual License Fee Payments.** Licensee shall pay the License Fee in advance in annual installments on the anniversary of the Commencement Date of each year during the Term and, if applicable, during the Renewal Terms, at the amounts set forth on Exhibit "B".

**3.4 Location for Payment.** The License Fee shall be paid to the entity at the Address for Payment of License Fee (as set forth in Section 1.3) or to another person, firm or place that the Licensor may from time to time designate in writing at least forty-five (45) days in advance of a License Fee payment date.

## ARTICLE 4

### Use of License

**4.1 Permitted Use.** Licensee shall use the License for lawful telecommunications purposes in accordance with all applicable federal, state and local rules and regulations including, but not limited to, FCC regulation ANSI/IEEE Guideline C95.1-1991 (or any successor provision thereto) and for no other purpose whatsoever.

**4.2 No Violations.** Licensee shall not, at any time, use or occupy, or suffer or permit anyone to use or occupy, the Building, or do or permit anything to be done in the Building, in any manner that may (a) cause, or be liable to cause, injury to the Land, the Building or any equipment, facilities or systems therein; (b) constitute a violation of the laws, codes and requirements of any public authority or the requirements of any applicable insurance bodies (collectively, "Laws"); or (c) annoy or inconvenience other occupants or users of the Building, as determined by Licensor in Licensor's reasonable judgment.

## ARTICLE 5 Condition

**5.1 Condition.** Licensee hereby acknowledges that Licensee is familiar with the condition of the Smokestack, Building and the Roof, and that Licensor is making no repairs, replacements or improvements of any kind to the Smokestack, Building or the Roof in connection with, or in consideration of, this License Agreement, and that Licensee is accepting the Smokestack, Building and the Roof in an "as-is" condition. Licensor has no obligation to repair, maintain or replace the Smokestack, Roof or the Building or any part thereof and Licensor makes no representation that any of the foregoing are adequate or appropriate for Licensee's intended use of same.

**5.2 Installations.** As of the Commencement Date, Licensee may install Licensee's Equipment in the locations described in Exhibit "A", provided that such installations are in compliance with this License Agreement and the Laws (the "Initial Installation"). Licensee shall have the right to install and operate transmission cables from the Platform to the antennas, electric lines from the main feed to the Platform and communication lines from the main entry point to the Platform. Licensee may, from time to time, replace, modify, alter or upgrade Licensee's Equipment located in the Platform or add emergency 911 communication equipment inside the Platform (the "Replacement Installation"), provided that Drawings identifying the new equipment are submitted to Licensor for review and approval at least forty five (45) days prior to installation and such Replacement Installation is otherwise in compliance with this License Agreement and applicable Laws. Licensee shall cause a licensed structural engineer to certify to Licensor that any Replacement Installation shall not exceed permitted load limits for the Building. Licensor shall use reasonable good faith efforts to cause a Professional to review and approve or disapprove Drawings for a Replacement Installation within thirty (30) days of receipt of same. Any installation not completed within ninety (90) days after the Commencement Date shall be deemed a Replacement Installation. Within five (5) days after request therefor, Licensee shall pay to Licensor a fee that is the greater of: (a) all costs, fees (including those of outside consultants, architects, engineers and lawyers) and expenses, including, but not limited to, labor and materials, incurred by Licensor in connection with Licensor's withholding or granting of its approval of the list of Licensee's Equipment and any Replacement Installation; and (b) Five Thousand Dollars (\$5,000.00). Licensee's failure to timely pay such amounts shall constitute a default pursuant to the terms of this License Agreement. Licensor's approval of Licensee's Equipment and inspections of Licensee's Installations (whether Initial or any Replacement installation) shall not release Licensee from any of Licensee's liabilities and responsibilities with respect to same. Within thirty (30) days after the completion of any Installation, Licensee shall deliver "As-Built Drawings" of the areas in which Licensee's Equipment has been installed, certified and sealed by a Professional, to Licensor. In the event the "As-Built Drawings" differ in any respect from the Drawings previously submitted to and approved by Licensor, Licensee shall remedy such differences to the satisfaction of Licensor. Licensee's failure to timely submit the "As-Built Drawings" or to remedy any differences shall constitute a default pursuant to the terms of this License Agreement. Routine maintenance and repairs shall not be deemed a "Replacement Installation."

**5.3 Electric Service.** Licensee shall cause its electric service to be connected directly to the electric utility and not to the electric service serving the Building. Licensee shall pay all utility charges on a timely basis. If Licensee is not able to obtain electric service from the utility company providing service to the Building, subject to Licensor's capacity at the Building, Licensee shall be permitted access to the Building's electrical transformer. In such event, Licensee shall pay Licensor for such electric services at a cost reasonably determined by Licensor.

**5.4 Ingress and Egress.** Neither Licensee, nor any of Licensee's agents, representatives or employees ("Licensee's Workers") may enter upon the Land for any purpose without the prior written consent of: (a) the school principal or the principal's designee; and (b) an employee of the Licensor's Bureau of Real Estate Management (hereinafter, the "Representatives"). Upon receipt of prior written approval of such Representatives, Licensee's Workers may enter the Land only between the hours of 9:00 a.m. and 3:00 p.m. ("Working Hours"). In the event that Licensee requires access to the Land for emergency purposes during hours other than Working Hours, Licensee shall either arrange to do so ahead of time, and obtain appropriate written consents of the Representatives or contact the Chicago Public Schools Safety and Security (773-553-3335) to obtain the name and after Working Hours telephone number of the custodian of the school, which custodian will serve as an escort for access to the Land. In either event, any access to the Land during other than Working Hours requires the presence of a custodian of the school, the charge for which services is currently One Hundred Dollars (\$100.00) per hour, and which, at all times throughout the Term and the Renewal Terms, if any, shall be paid by Licensee. Licensor may, from time to time, in Licensor's sole discretion, increase the charge for escort services and Licensee shall pay such increased amount within ten (10) days after receipt of an invoice therefor.

**5.5 Term Inspections.** Within ninety (90) days after the anniversary date of each Renewal Term, Licensee shall commission and pay for a field inspection by a Professional. After the completion of the field inspection, the Professional shall deliver to the Licensor a report, signed and sealed by the Professional, certifying to Licensor the condition of the Installation and the elements of the Building that structurally support the Installation. In the event the Installation or the elements of the Building that support the Installation, are not certified to be in good condition, Licensee shall remedy such defects within thirty (30) days after the delivery of the Report, unless such defects are determined by Licensor to constitute an emergency situation, in which event such defects shall be corrected immediately.

**5.6 Fiber** If Licensee elects to install fiber at the Property, Licensee shall request that four (4) ports on the fiber transport equipment at the DS1 level be dedicated for Licensor's exclusive use. To the extent within Licensee's control, Licensee shall provide Licensor with continuous access to the fiber access equipment and conduits.

**5.7 Drug and Alcohol Testing.** Licensee shall comply with the requirements of the Illinois Drug-Free Workplace Act, 30 ILCS 580/3. Licensee shall maintain a written policy regarding drug and/or alcohol testing of employees and shall implement such policy at any time that Licensee, or any of Licensee's Workers, form a reasonable suspicion that such testing may have a positive result. The said policy shall also require the testing of all of Licensee's Workers directly or indirectly involved in any incident or accident in which a physical injury has occurred, as soon as practicable after the incident or accident. Licensee shall require a similar written policy in each subcontract. If the results of any such test are positive, Licensee shall, as soon as possible, contact Licensor's Risk Management personnel at 773-553-2828 concerning the results. The Licensor reserves the right to require the removal from the site, either temporarily or permanently, of any person receiving positive results from any of the aforesaid tests.

**5.8 Background Checks.** Under the provisions of the Illinois School Code, 105 ILCS 5/10-21.9, Licensee shall conduct a fingerprint-based criminal background investigation and a Statewide Sex Offender Database check of all of Licensee's workers who may have direct, daily contact with the pupils in any school. Licensee shall not assign to the work at any school any employee convicted of the offenses listed in the Illinois School Code or those for whom a fingerprint-based criminal background investigation or Statewide Sex Offender Database check has not been initiated. Upon receipt of the record of conviction, Licensee shall immediately remove any person so assigned from the work at the school. In addition, Licensee shall require all persons assigned to the work at any school to show evidence that they are free from communicable disease, including tuberculosis. Acceptable evidence is described in the Illinois School Code, 105 ILCS 5/24-5. From time to time, the Licensor may require Licensee to demonstrate its compliance with the provisions of this Section. Also, Licensee shall comply with the requirements of the Illinois Drug-Free Workplace Act, 30 ILCS 580/3.

## ARTICLE 6

### Taxes, Indemnification and Insurance

**6.1 Taxes.** Licensee shall be solely responsible for and shall timely pay all license, leasehold and personal property taxes levied and assessed against it or its personal property. Licensee shall not be responsible for the payment of any real estate, special assessment or similar taxes, unless such taxes are imposed due to Licensee or Licensee's activities at the Building. If for any reason taxes are assessed against the Building or the Land due to Licensee's occupancy at the Building, Licensee shall pay such taxes prior to the date on which they become delinquent.

**6.2 Indemnification.** Licensee hereby agrees to indemnify, defend, protect and hold Licensor harmless from and against any claim of liability or loss from personal injury or property damage in connection with the License, any violation of any provision of this License Agreement, or resulting from or arising out of the use and occupancy of the Roof by the Licensee, its agents, employees and invitees, excepting, however, such claims or damages as may be due to or caused by the acts or omissions of the Licensor, its agents, employees or invitees.

#### **6.3 Insurance.**

**A. Licensee Activities.** Licensee shall not violate, or permit the violation of, any condition imposed by any insurance policy issued in respect of the Building and shall not do, or permit anything to be done, or keep or permit anything to be kept on the Roof, which would (a) subject Licensor to any liability or responsibility for personal injury or death or property damage; (b) which would increase any insurance rate in respect of the Building or the property therein over the rate which would otherwise then be in effect; (c) which would result in insurance companies of good standing refusing to insure

or self-insure the Building or the property therein, in amounts reasonably satisfactory to Licensor; and (d) which would result in the cancellation of or the assertion of any defense by the insurer, in whole or in part, to claims under any policy of insurance or self-insurance with respect to the Building or the property therein.

**B. Increased Premiums.** If, by reason of any failure of Licensee to comply with any provisions of this License Agreement, the premiums on Licensor's insurance or self-insurance on the Building and/or property therein shall be higher than they otherwise would be, Licensee shall reimburse Licensor, on demand, for that part of such premiums attributable to such failure on the part of Licensee.

**C. Waiver of Right of Recovery.** Neither Licensor nor Licensee shall be liable to the other or to any insurance company (by way of subrogation or otherwise) insuring the other party for any loss or damage to the Building, and structure or other tangible property located on or in the Building, or any resulting loss of income, or losses under workers' compensation laws and benefits, despite the fact that such loss or damage might have been occasioned by the negligence of such party, its agents or employees, provided that any such loss or damage is covered by insurance or self-insurance benefitting the party suffering such loss or damage or was required to be covered by insurance or self-insurance pursuant to this License Agreement. Licensor and Licensee shall secure an appropriate clause in, or an endorsement upon, each insurance policy obtained by it and covering or applicable to the License and the personal property and fixtures located in or on the Building pursuant to which the insurance company consents to such waiver of right of recovery. The waiver of right of recovery set forth above in this Section 6.3 C shall extend to Licensor, Licensee, and their respective agents and employees, and other parties designated by Licensor (collectively, "Licensor's Parties").

**D. Insurance to be Maintained by Licensee.** Licensee shall, at its sole cost and expense, at all times during the Term (and any extensions thereof) obtain and pay for and maintain in full force and effect the following insurance policy or policies:

(i) **"All-Risk" Property Coverage.** "All Risk" property insurance on a replacement cost basis, covering all of the Licensee's Property (as defined in Section 10.1) and all improvements installed in or on the Building by, or on behalf of, Licensee in an amount not less than ninety percent (90%) of the full replacement cost of all such property, with a deductible of no more than \$10,000.00 per loss. Licensor and any other parties designated by Licensor shall be included as additional insureds and loss payee(s).

(ii) **Liability Coverage.** Commercial general public liability and comprehensive automobile liability and, if necessary to comply with any conditions of this License Agreement, umbrella liability insurance covering Licensee against any claims arising out of liability for bodily injury and death and personal injury and advertising injury and property damage occurring in and about the Building and otherwise resulting from any acts and operations of Licensee, its agents and employees, with limits of not less than total limits of \$1,000,000.00 per occurrence and \$3,000,000.00 annual general aggregate, per location, and a deductible of not more than \$10,000.00 per occurrence. Such insurance shall include, inter alia: (i) "occurrence" rather than "claims made" policy forms unless such "occurrence" policy forms are not available; (ii) any and all liability assumed by the Licensee under the terms of this License Agreement or otherwise, to the extent such insurance is available; (iii) medical-operations expenses in an amount not less than \$5,000.00 per person, per accident; (iv) the Licensor and any other parties designated by Licensor shall be designated as additional insureds; and (v) severability of insured parties and cross-liability so that the protection of such insurance shall be afforded to the Licensor in the same manner as if separate policies had been issued to each of the insured parties. Licensor and any other parties designated by Licensor shall be included as additional insureds and loss payee(s).

(iii) **Workers' Compensation Coverage.** Workers' compensation with limits as required by law and employer's liability insurance with minimum limits of \$100,000.00.

(iv) **Other Requirements.** Such other policy or policies as would be either: (i) required of the Licensor by any party having an interest in the Building; or, (ii) deemed reasonably necessary by Licensor. All insurance policies required under this Article shall: (i) be issued by companies licensed to do business in the State of Illinois and acceptable to Licensor and any other party having any interest in the Building and with an A-VII or better rating per A.M. Best; (ii) not be subject to cancellation or material change or non-renewal without at least thirty (30) days' prior written notice to Licensor and any other parties designated by Licensor (A) to be loss payee(s) or additional insured(s) under the insurance policies required from Licensee, or (B) to receive such notices; (iii) be



deemed to be primary insurance in relation to any other insurance maintained by Licensor; and (iv) at the sole option and discretion of the Licensor, include other appropriate endorsements or extensions of coverage as would be required of the Licensor by any other party having an interest in the Building. Certificates of insurance required pursuant to this Article shall be delivered to Licensor not less than ten (10) days prior to the Commencement Date. If Licensee fails to submit such policies or certificates to Licensor within the specified time, or otherwise fails to obtain and maintain insurance coverages in accordance with this Article then Licensor, at Licensor's sole option, may, but shall not be obligated to, procure such insurance on behalf of, and at the expense of, the Licensee, and if Licensor exercises such right and expends any funds to obtain such insurance, Licensee shall reimburse Licensor for such amounts upon demand. Such a failure shall constitute default hereunder, and such default shall not be cured by Licensor's election to procure insurance on Licensee's behalf. Licensee may self insure with respect to any of these insurance requirements provided, however, Licensee shall submit to Licensor's risk assessment department evidence of capacity and any documentation reasonably required by Licensor.

## ARTICLE 7

### Representations

Licensor and Licensee represent to the other that each has full authority to execute and deliver and to perform their respective obligations pursuant to the terms of this License Agreement.

## ARTICLE 8

### Assignment

Licensee shall not sublicense, assign, transfer or convey any of Licensee's interests in this License Agreement (collectively, "Transfer") without the prior written consent of Licensor, which consent shall not be unreasonably withheld or delayed. In the event Licensor consents to any such Transfer, such consent shall not release Licensee from Licensee's obligations under this License Agreement. Notwithstanding the foregoing, upon delivery of sixty (60) days' advance written notice, together with all documentation that may then be required by Licensor in connection with the proposed Transfer, completed in a satisfactory manner to Licensor, Licensee may Transfer its interests in this License Agreement to its parent company, any subsidiary or affiliate of its parent company, or to a successor-in-interest acquiring fifty one percent (51%) or more of its stock or assets ("Related Party"). In the event of any Transfer either to a Related Party or a third party, Licensee shall not be released from Licensee's obligations under this License Agreement, and such Related Party or any third party shall execute documentation evidencing agreement to be bound by the terms of this License Agreement. Licensee shall pay all of Licensor's fees, costs and expenses (including, but not limited to, fees of counsel) incurred by Licensor in connection with Licensor's review of Licensee's request for, or notice of, a Transfer.

## ARTICLE 9

### Default

**9.1 By Licensee.** The occurrence of any one or more of the following events shall constitute a default of this License Agreement by Licensee: (a) if Licensee fails to pay any License Fee or any other charges required to be paid by Licensee within twenty (20) days after the receipt of written notice from Licensor regarding such charges; or (b) if Licensee fails to promptly and fully perform any other covenant, condition or agreement contained in this License Agreement and such failure continues for thirty (30) days after written notice thereof from Licensor to Licensee; provided, however, that if the nature of any such default is such that the same cannot be cured within thirty (30) days, Licensee shall have such additional period of time as may be necessary to cure such default provided that it commences to cure said default within the thirty (30) day period and proceeds diligently thereafter to complete such cure, and provided further that such default is cured within sixty (60) days from the date of Licensor's notice to Licensee; or (c) if a writ of attachment or execution is levied on this License Agreement, on any other agreement between Licensor and Licensee, or on any of Licensee's property that is not vacated or dismissed within forty-five (45) days from the issuance thereof; or (d) if Licensee makes a general assignment for the benefit of creditors, or provides for an arrangement, composition, extension or adjustment with its creditors; or (e) If Licensee files a voluntary petition for relief or if a petition against Licensee in a proceeding under the federal bankruptcy laws or other insolvency laws is filed and not withdrawn or dismissed within forty-five (45) days thereafter, or if under the provisions of any law providing for reorganization or winding up of corporations, any court of competent jurisdiction assumes jurisdiction,

custody or control of Licensee or any substantial part of its property and such jurisdiction, custody or control remains in force unrelinquished, unstayed or unterminated for a period of forty-five (45) days; or (f) if, in any proceeding or action in which Licensee is a party, a trustee, or receiver, agent or custodian is appointed to take charge of Licensee's property (or has the authority to do so) for the purpose of enforcing a lien against Licensee's property. In the event of default under this License Agreement by Licensee, Licensor shall be entitled to pursue any and all remedies against Licensee as shall then be provided by law. If Licensee fails to cure a default, in addition to any and all other remedies available to Licensor, Licensor may elect to cure such default, at Licensee's sole cost and expense, without notice in the event of an emergency and in any other case only if such default continues after the expiration of the thirty (30) days from the date Licensor gives Licensee notice of the default. In the event of default by Licensee, Licensor, in addition to all other rights and remedies at law or in equity, may terminate this License Agreement upon delivery of written notice to Licensee and Licensee shall be required to remove Licensee's Property from the Building and Land within three (3) days thereafter. Within three (3) days after such termination, Licensee shall pay any and all costs and fees owed to Licensor pursuant to the terms of this Agreement and shall leave the Building and the Land in the condition required pursuant to Section 10.1 below.

**9.2 By Licensor.** In the event of a default by Licensor, Licensee shall not exercise any rights with respect to such default (a) until Licensee has given, by registered or certified mail, written notice of such default to Licensor and to any other party whose name and address shall previously have been furnished to Licensee, and (b) until a thirty (30)-day period for remedying such default shall have elapsed following the giving of such notice; provided, however, that said thirty (30)-day cure period may be extended in the event that the default cannot, by its nature, be cured within thirty (30) days and Licensor is diligently proceeding to cure said default. Licensee may terminate this Agreement upon thirty (30) days advance written notice to Licensor without further liability if such default is not cured within the cure period.

**9.3 Prevailing Party.** Each party agrees to pay, on demand, all costs and expenses, including reasonable attorneys' fees, which may be incurred by or imposed on the other, either by being the prevailing party in enforcing this License Agreement or in any litigation which a party, without fault on its part, may be a party.

## ARTICLE 10

### Termination, Surrender and Holdover

**10.1 Removal of Equipment.** Upon the expiration of this License Agreement, or within thirty (30) days after its earlier termination or cancellation for any reason (the "Removal Period"), Licensee shall, at its sole expense, remove from the Building all of its antennas, equipment, fixtures, transmission lines, cables, other personal property and other improvements [collectively, the "Licensee's Property"], and Licensee shall repair any damage to the Building or the Land resulting from any installation and/or removal of Licensee's Property. Prior to the expiration of the Removal Period, Licensee's Property shall not be deemed to be a fixture of the Building. Any other items of Licensee's Property that shall remain on the Land after the expiration of the Removal Period, may, at the option of Licensor, be deemed to have been abandoned, and in such case, such items may be retained by Licensor as its property or be disposed of by Licensor, without accountability, in such manner as Licensor shall determine, at Licensee's expense.

**10.2 Termination by Licensor.** In addition to any other termination rights and remedies available to Licensor pursuant to the terms of this License Agreement, if the Building is not used by Licensor as a school or ceases to be the property of The Board of Education of the City of Chicago or the Public Building Commission, Licensor may terminate this License Agreement at any time upon thirty (30) days' prior written notice to Licensee. In addition to the foregoing, Licensor may terminate this License Agreement at any time during the Initial Term or any of the Renewal Terms upon providing sixty (60) days' prior written notice to Licensee, provided, however, that Licensor shall not, for a period of one hundred and eighty (180) days after the effective date of such termination, enter into a license agreement for any space in, on or at the Building with any other telecommunications provider. Notwithstanding the foregoing, in the event of casualty or deterioration of any portion of the Building that affects the License, Licensor may elect to terminate this License rather than rebuild or repair such portion of the Building, in which event Licensor shall provide sixty (60) days prior written notice to Licensee of such termination.

**10.3 Termination by Licensee.** This License Agreement may be terminated, without penalty, by Licensee, at any time prior to commencement of the Initial Installation. In addition, Licensee may terminate this License Agreement, upon delivery of written notice to Licensor and subject to the provisions of this Section 10.3, if Licensee is unable to obtain, or maintain, any required approvals or the issuance of a license or permit by any agency, board, court or other governmental

authority necessary for the construction or operation of Licensee's Equipment, or if Licensee determines in its sole discretion that the cost of obtaining same is commercially unreasonable. If Licensee elects to terminate pursuant to this Section 10.3, then, Licensee shall, at its sole expense, remove Licensee's Property from the Building and Land on or before the termination date, and Licensee shall repair any damage to the Building or the Land resulting from any installation and/or removal of Licensee's Property. If Licensee fails to comply with the provisions of this Section 10.3, then this License Agreement shall remain in full force and effect until the date of compliance. In addition, any amounts paid to Licensor or Licensor's designee, by Licensee pursuant to the provisions of this License Agreement are non-refundable notwithstanding any such early termination.

**10.4 Holdover.** If Licensee remains in possession after the expiration of the Term or after any earlier termination of this License Agreement or of the Licensee's right to possession: (a) Licensee shall be deemed a Licensee at will; (b) Licensee shall pay two hundred percent (200%) of the License Fee last prevailing hereunder and also shall pay all damages sustained by Licensor by reason of such remaining in possession after the expiration or termination of this License Agreement; and c) there shall be no renewal or extension of this License Agreement by operation of law. The provisions of this Article shall not constitute a waiver by Licensor of any re-entry rights of Licensor provided hereunder or by law.

## ARTICLE 11

### Miscellaneous

**11.1 Notices.** All notices, requests and other writings required under this License Agreement shall be in writing and shall be deemed validly given upon the earlier of (i) actual receipt or (ii) the second business day after the date posted if sent by certified mail, return receipt requested, addressed to the other party with copies as set forth in the Licensor's Address and Licensee's Address (or any other address within the United States that the party to be notified may have designated to the sender by like notice).

**11.2 Cooperation.** Licensor agrees to cooperate with Licensee, at Licensee's sole cost and expense, in any efforts by Licensee to secure any governmental permits necessary to use the License as contemplated in this License Agreement. Licensee may file, in its own name and at its sole cost and expense, appeals contesting any adverse decisions of federal, state, county and local governments or their respective agencies or administrative bodies regarding licenses or permits for the use or operation of Licensee's Equipment on the Land.

**11.3 License Agreement Construction.** This License Agreement shall be construed in accordance with the laws of the State of Illinois. In the event that any provisions of this License Agreement are legally unenforceable, the other provisions shall remain in effect. All prior understandings and agreements between the parties are merged into this License Agreement, and this License Agreement may not be modified orally or in any manner other than by an agreement in writing signed by both parties. Presentation of this License Agreement by Licensee to Licensor shall not constitute an offer unless the License Agreement has been signed by Licensee, and this License Agreement shall not be binding until executed by both Licensor and Licensee.

**11.4 Successors.** Subject to the provisions regarding assignment, this License Agreement shall be binding upon, and inure to the benefit of, the successors-in-interest and permitted assigns of the parties.

**11.5 Estoppel Certificates.** During the Term of this License Agreement, either party shall, upon thirty (30) days' prior written request by the other, deliver to the requesting party a statement in writing certifying that this License Agreement is unmodified and in full force and effect (or if modified, in effect as modified and setting forth the modifications and the dates of the modifications), the dates to which the License Fee has been paid, and stating whether or not, to the knowledge of the party delivering the certificate, the requesting party is in default in performance of any agreement contained in this License Agreement and, if so, specifying each default and whether there are any counterclaims.

**11.6 Non-Waiver.** The waiver by Licensor of any term, covenant or condition contained in this License Agreement must be in writing and shall not be deemed to be a waiver of any subsequent breach of the same or any other term, covenant or condition contained in this License Agreement. The subsequent acceptance of any License Fee under this License Agreement by Licensor shall not be deemed to be a waiver of any preceding default by Licensee of any term, covenant or condition of this License Agreement, other than the failure of the Licensee to pay the particular License Fee so accepted, regardless of Licensor's knowledge of such preceding default at the time of the acceptance of such License Fee. Licensor's

failure to insist upon the performance or the strict performance of any provision of this License Agreement, or to exercise any election contained in this License Agreement, shall not be construed as a waiver of such provision, or right to exercise such election.

**11.7 Late Charges.** If any installment of License Fee or any sum due from Licensee shall not be received by Licensor or Licensor's designee within fifteen (15) days after said amount is due, Licensee shall pay to Licensor a late charge, equal to: (a) the lesser of one and one half percent (1½%) of such overdue amount on a monthly basis, or eighteen percent (18%) of such overdue amount on an annual basis; or (b) the maximum amount permitted by law, plus any attorneys' fees incurred by Licensor by reason of Licensee's failure to pay the License Fee and/or other charges when due. The parties hereby agree that such late charges represent a fair and reasonable estimate of the costs that Licensor will incur by reason of the late payment by Licensee. Acceptance of such late charges by Licensor shall in no event constitute a waiver of Licensee's default with respect to such overdue amount, nor prevent Licensor from exercising any of the other rights and remedies granted under this License Agreement or by law.

**11.8 Recording.** Licensee shall not record or file this License Agreement in the public records of any county or state.

**11.9 Environmental.** Licensee shall not conduct or authorize the generation, transportation, storage, treatment, disposal, use, consumption or possession on, in or under the Land or the Building, of any Hazardous Substance, as hereafter defined, and the Licensee's failure to comply with the provisions of this Section 11.9 shall constitute a default under this License Agreement. "Hazardous Substance" means any matter giving rise to liability under any and all laws, acts, regulations or ordinances (the "Environmental Laws"), including, but not limited to, the Resources Conservation Recovery Act ("RCRA"), 42 U.S.C. Section 6901 *et seq.*, the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), 52 U.S.C. Sections 9601 *et seq.*, the Illinois Environmental Protection Act (IEPA), or under any common law theory of liability. If, any of Licensee's activities at the Land, whether or not such activities are in violation of this Section 11.9, result in the presence, release, threat of release, or placement on, in or under the Land or the Building, of any Hazardous Substance and such activities: (i) give rise to liability (including, but not limited to, a response action, remedial action, or removal action) under any Environmental Law or any common law theory of liability, (ii) cause an adverse public health effect, or (iii) pollute, or threaten to pollute, the environment, Licensee shall promptly take, at Licensee's sole cost and expense, any and all necessary remedial and removal actions and mitigate exposure to liability arising from the Hazardous Substance, whether or not required by law. Without limiting any other indemnifications or remedies granted to Licensor under this License Agreement, Licensee, its officers, directors and assigns hereby protect, indemnify, defend, and forever hold the Licensor and its officers, directors, employees, representatives, agents and assigns harmless from and against, any and all claims, judgments, damages, penalties, fines, costs, expenses, liabilities or losses, contingent or otherwise, that any or all of the indemnified parties suffer or incur as a result of, or due to, any contamination of the Building, the Land or any other property not a part of the Land, but which contamination arises or occurs as a result of the presence, release, threat of release, or placement of Hazardous Substances in, on or under the Building, or the Land, the presence of which is caused or permitted by Licensee. The provisions of this Section 11.9 shall survive any termination of this License Agreement and shall be co-extensive with the other indemnification and hold harmless rights of Licensor under this License Agreement.

**11.10 Broadcast Interference.** As used in this License Agreement, "interference" with a broadcasting activity means: (a) interference within the meaning of the provisions of the recommended practices of the Electronics Industries Association (EIA) and the rules and regulations of the Federal Communications Commissions (FCC) then in effect, or (b) a material impairment of the quality of either sound or picture signals on a broadcasting activity as may be defined by the FCC at any hour during the period of operation of activity, as compared with that which would be obtained if no other broadcaster were broadcasting from the Building or had any equipment at the Building. Licensee shall take reasonable actions to prevent and properly remove any interference with broadcast activities of Licensor or other Licensees of Licensor caused by Licensee's actions at the Building.

**11.11 Non-Interference by Licensee.** Licensee acknowledges that the primary function of the Building is to operate a school and that Licensee's License, is and shall at all times remain throughout the Term, ancillary to school operations. Licensee hereby agrees that Licensee shall conduct its operations in the Building in a manner that will not interfere with, interrupt, disturb or disrupt in any manner, the operation of the school.

**11.12 Interference by Others.** Licensee hereby acknowledges that Licensee's use of the Roof shall not be exclusive and that Licensor shall use the Roof for its own purposes, which purposes shall at all times remain paramount to

Licensee's, as well as granting rights to others for the use of the Roof. Licensor shall use reasonable good faith efforts to cause other communication carriers not to interfere with Licensee's Equipment, which efforts shall be limited to, after receiving written notice of same from Licensee, delivering written notice to such communication carrier of any interference. Licensor shall not knowingly license the use of space to others that will interfere with Licensee's Equipment, provided, however, that Licensor shall be under no obligation to perform any tests or investigations in order to determine the likelihood of interference prior to entering into any license agreement with any others. If Licensor elects to install equipment at the Building that may cause interference with Licensee's Equipment, Licensor shall use reasonable good faith efforts to notify Licensee in writing prior to installation of same. Licensee may install, in accordance with the provisions of Section 5.2, equipment necessary to counteract such interference.

**11.13 Relocation.** Licensor may, at any time during the Term, change the location of the Licensee's Equipment on Exhibit "A" to another area (the "New Location"), provided that the New Location is oriented in the same direction and at the same height as the original location and is located on the Smokestack. Licensor shall give Licensee no less than thirty (30) days' prior written notice of Licensor's exercise of its relocation right under this Section 11.13. Licensee shall cooperate with Licensor, in all reasonable respects, so as to facilitate Licensee's relocation to the New Location. In addition to the foregoing, Licensor shall have the option of requiring Licensee, at Licensee's sole cost and expense, to temporarily relocate Licensee's Equipment, if necessary, upon thirty (30) days' advance written notice, in the event that repairs or maintenance of the Building are scheduled to be performed.

**11.14 Entry.** Licensee hereby acknowledges that Licensee and any sublicensees or assignees ("Licensee's Parties") shall comply with the terms of 105 ILCS 5/34-18.5) and that Licensee's Parties shall screen all persons permitted by Licensee's Parties to enter the Building to ensure compliance with 105 ILCS 5/34-18.5c) and shall, at the request of Licensor, immediately remove from the Building and prohibit access by any such person not acceptable to Licensor.

**11.15 Time.** Time is of the essence of this License Agreement.

**11.16 105 ILCS 5/34 Provisions.** This License Agreement is not legally binding on the Licensor if entered into in violation of the provisions of 105 ILCS 5/34-21.3 which restricts the employment of, or the letting of contracts to, former Board Members during the one-year period following expiration or other termination of their terms of office. Each party to this License Agreement hereby acknowledges that, in accordance with 105 ILCS 5/34-13.1, the Inspector General of the Board of Education has the authority to conduct certain investigations and that the Inspector General shall have access to all information and personnel necessary to conduct those investigations.

**11.17 Conflicts.** This License Agreement is not legally binding on the Licensor if entered into in violation of the provisions of 105 ILCS 5/34-21.3 which restricts the employment of, or the letting of contracts to, former Board Members during the one-year period following expiration or other termination of their terms of office.

**11.18 Indebtedness Policy.** The Board of Education Indebtedness Policy (96-0626-PO3) adopted July 26, 1996, as amended from time to time, is hereby incorporated into and made part of the License Agreement as if fully set forth herein.

**11.19 Ethics Code.** The Board of Education Ethics Code (04-0623-P04) adopted June 23, 2004, as amended from time to time, is hereby incorporated into and made a part of this License Agreement as if fully set forth herein.

**11.20 Marking and Lighting Smokestack** If the Smokestack is subject to the FAA/FCC antenna structure marking and lighting requirements, Licensor agrees: (1) to allow Licensee to bridge into Licensor's automatic alarm system, if available ("Alarm"), which monitors the lighting of the Smokestack so as to permit a parallel alarm system, and Licensee shall be permitted access to make repairs and inspections to its bridge, subject to Licensor's rules and requirements regarding access; or (2) if Licensor currently does not have an Alarm, to allow Licensee to install such an Alarm and for Licensee to have continuous access, subject to Licensor's rules and requirements regarding access, to make repairs and inspections to its Alarm. Licensee shall, at its own expense, be responsible for the maintenance and repair of any Alarm and/or bridge installed by Licensee.

IN WITNESS WHEREOF, Licensor and Licensee have executed this License Agreement as of the latter of the dates written below.

LICENSOR

THE BOARD OF EDUCATION OF THE CITY OF CHICAGO

By: David J. Vitale  
Date: 6/5/12 David J. Vitale, President  
Attest: Estela G. Beltran  
Estela G. Beltran, Secretary

LICENSEE

NEW CINGULAR WIRELESS PCS, LLC, a Delaware limited liability company

By: AT&T Mobility Corporation  
Its: Manager  
By: Scott A. Root  
Scott A. Root  
Its: Manager, Network Implementation IL/WI

Approved as to Legal Form

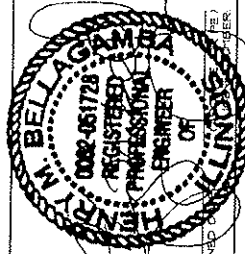
Patrick J. Rocks  
Patrick J. Rocks, General Counsel  
Board Report No. 05-0727-OP1 as amended by  
06-0927-OP1 and 11-1116-OP1-31

Date: 4-20-11

EXHIBIT "A"

**STATEMENT THAT CONFORMANCE WITH THE ENERGY CODE IS NOT REQUIRED**  
 I CERTIFY THAT I AM THE REGISTERED DESIGN PROFESSIONAL FOR THIS PROJECT. I ALSO CERTIFY THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF THE ATTACHED PLANS FOR ADDRESS

**DO NOT NEED TO COMPLY**  
 WITH THE REQUIREMENTS OF CHAPTER 19-13, ENERGY CONSERVATION OF THE MUNICIPAL CODE OF CHICAGO. THE PROJECT NEED NOT COMPLY BECAUSE SCOPE OF WORK DOES NOT INVOLVE MODIFICATIONS TO ELECTRICAL LIGHTING.

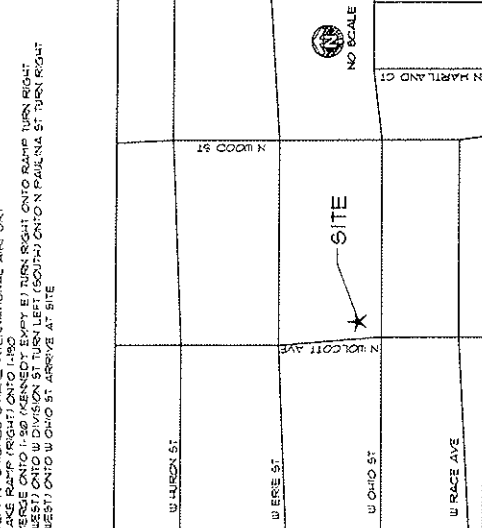
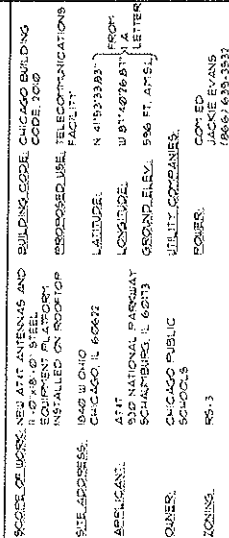


SIGNED: \_\_\_\_\_  
 SEAL NO. 0082-061728  
 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

APPROVED FOR CONSTRUCTION

NETWORK DEPARTMENT \_\_\_\_\_  
 RE: \_\_\_\_\_  
 SITE ACQUISITION \_\_\_\_\_  
 PROPERTY OWNER \_\_\_\_\_  
 BACKGROUND \_\_\_\_\_

**PROJECT INFORMATION**  
 SCOPE OF WORK: NEW AT&T ANTENNAS AND BUILDING CODE, CHICAGO BUILDING CODE 2000  
 EQUIPMENT PLATFORM INSTALLED ON ROOFTOP  
 SCHEDULED USE: TELECOMMUNICATIONS FACILITY  
 SITE ADDRESS: 940 W OHIO CHICAGO, IL 60612  
 APPLICABLE: 940 W OHIO CHICAGO, IL 60612  
 510 NATIONAL PARKWAY SCHAUMBURG, IL 60193  
 CHICAGO PUBLIC UTILITIES COMPANIES  
 SCHOOLS  
 OWNER: COM ED JACKIE EVANS (866) 638-3532  
 ZONING: RS-3  
 EA CODE: ILL.  
 CEN.: 1'-00" (1'-00")



DRAWING INDEX	REV
1.0191-01 TITLE SHEET	4
1.0191-02 GENERAL BUILDING REQUIREMENTS	4
1.0191-03 SITE PLAN	4
1.0191-04 ROOFTOP PLAN	4
1.0191-05 ELEVATION	4
1.0191-06 CONSTRUCTION DETAILS	4
1.0191-07 ANTENNA INFORMATION CHART	4
1.0191-08 ANTENNA COAX DIAGRAM	4
1.0191-09 ANTENNA COAX DIAGRAM	4
1.0191-10 BOTTOM JUMPER TIEBARS DETAIL	4
1.0191-11 COAX LABELING	4
1.0191-12 TELCO INTERFERENCE	4
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1.0191-14 CONSTRUCTION NOTES	4
1.0191-15 ROOF PLAN & STRUCTURAL NOTES	4
1.0191-16 PLATFORM MOUNTING PLAN & DETAILS	4
1.0191-17 ANTENNA MOUNTING PLAN & DETAILS	4
1.0191-18 STRUCTURAL DETAILS	4
1.0191-19 STRUCTURAL DETAILS	4
1.0191-20 RISER DIAGRAM & DETAILS	4
1.0191-21 ELECTRICAL NOTES	4
1.0191-22 GROUNDING PLAN	4
1.0191-23 GROUNDING DETAILS	4
99-1 SITE SURVEY 1	
99-2 SITE SURVEY 2	



SITE NUMBER: IL0912  
 SITE NAME: CPS TALCOTT  
 NEW AT&T ANTENNAS AND 11'-0"X18'-0"  
 STEEL EQUIPMENT PLATFORM INSTALLED ON ROOFTOP  
 APPLICABLE BUILDING CODES AND STANDARDS

SUBCONTRACTORS WORK SHALL COMPLY WITH ALL NATIONAL STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AUA) FOR THE LOCATION THE EDITION OF THE AUA ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.  
 BUILDING CODE: CHICAGO BUILDING CODE 2000  
 ELECTRICAL CODE: CHICAGO ELECTRICAL CODE 2000  
 LIGHTNING PROTECTION CODE: NFPA 780 - 2000, LIGHTNING PROTECTION CODE  
 SUBCONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:  
 AMERICAN CONCRETE INSTITUTE (ACI) 308 BUILDING CODES AND STANDARDS FOR CONSTRUCTION  
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION AND NINTH EDITION  
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND TALL BUILDING STRUCTURES  
 TIA 609, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS  
 INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) BY GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM (IEEE 1000 (1993) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING ELECTRONIC EQUIPMENT  
 IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")  
 TELECOMEDIA GR-97.5, GENERAL INSTALLATION REQUIREMENTS  
 TELECOMEDIA GR-1803, COAXIAL CABLE CONNECTIONS  
 ANSI T311 FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION  
 FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL METHODS OF CONSTRUCTION OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN, WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.  
 EQUIPMENT AREA S UNMAINTAINED AND NOT FOR HUMAN HABITATION HANDICAPPED ACCESS REQUIREMENTS AND PLUMBING FACILITIES ARE NOT REQUIRED



SIGNED: \_\_\_\_\_  
 SEAL NO. 0082-061728  
 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

NO.	DATE	REVISION	BY	CHK	APP'D BY
1	07/20/00	ISSUE FOR PERMIT	W.B.		
2	07/20/00	REVISED PER COMMENTS	W.B.		
3	07/20/00	REVISED PER COMMENTS	W.B.		
4	07/20/00	REVISED PER COMMENTS	W.B.		
5	07/20/00	REVISED PER COMMENTS	W.B.		
6	07/20/00	REVISED PER COMMENTS	W.B.		
7	07/20/00	REVISED PER COMMENTS	W.B.		
8	07/20/00	REVISED PER COMMENTS	W.B.		
9	07/20/00	REVISED PER COMMENTS	W.B.		
10	07/20/00	REVISED PER COMMENTS	W.B.		

**Goodman Networks**  
 900 NATIONAL PARKWAY SUITE 300  
 SCHAUMBURG, IL 60193

**AT&T**  
 930 NATIONAL PARKWAY  
 4th FLOOR  
 SCHAUMBURG, IL 60193

**CPS TALCOTT**  
 SITE NO: IL0912  
 940 W OHIO  
 CHICAGO, IL 60612

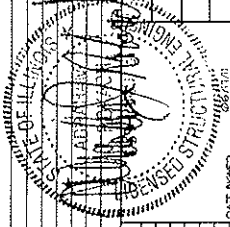
**National Wireless**  
 9400 W. ACRES RD  
 JEFFERSONVILLE, IN 47130  
 TEL: 317-573-6000  
 FAX: 317-573-6000

**Veritel, LLC**  
 9400 W. ACRES RD  
 JEFFERSONVILLE, IN 47130  
 TEL: 317-573-6000  
 FAX: 317-573-6000

**Fulltime Engineering Consultant**  
 9400 W. ACRES RD  
 SUITE 100  
 JEFFERSONVILLE, IN 47130  
 TEL: 317-573-6000  
 FAX: 317-573-6000

**CITY OF CHICAGO DEPARTMENT OF BUILDINGS  
GENERAL BUILDING REQUIREMENTS PER CHICAGO ZONING ORDINANCE (CZO) AND CHICAGO BUILDING CODE (CBC) 2011 EDITION**

ITEM	ISBE	CHAPTER/ARTICLE	ORDINANCE REQUIRING	ACTUAL	REQUIREMENT N/A	LOCATION	AGENCY TEST NO.	REMARKS	
PART 1. ZONING REQUIREMENTS	101	ZONING DISTRICT							
	102	LOT AREA				01			
	103	MAXIMUM FLOOR AREA RATIO				N/A			
	104	TOTAL BUILDING AREA				N/A			
	105	BUILDING HEIGHT - No. OF FLOORS				N/A			
	106	MINIMUM YARDS				N/A			
	107	GROUND ELEVATION (GEO)				N/A			
	108	OFF STREET LOADING				N/A			
	109	ON STREET PARKING				N/A			
	110	STREET LIGHTS				N/A			
	111	COLLAR SIGN CONFORMANCE				N/A			
	PART 2. BUILDING REQUIREMENTS	2.01	OCCUPANCY CLASSIFICATION (S)				N/A		
		2.02	HEIGHT AND AREA LIMITATIONS				N/A		
		2.03	EXCEPTIONS TO AREA LIMITATIONS				N/A		
		2.04	FIXED OCCUPANCY BUILDINGS				N/A		
		2.05	TIFFS OF CONSTRUCTION				N/A		
		2.06	MIXED OCCUPANCY SEPARATIONS				N/A		
2.07		MINIMUM WALL FIRE RESISTANCE				N/A			
2.08		EXTERIOR BEARING WALLS				N/A			
2.09		EXTERIOR NON-BEARING WALLS				N/A			
2.10		INTERIOR BEARING WALLS				N/A			
PART 3. SPECIAL REQUIREMENTS	3.01	FLOOR CONSTRUCTION				N/A			
	3.02	ELEVATOR HOISTS				N/A			
	3.03	MEZANINE FLOORS				N/A			
	3.04	BASEMENT CONSTRUCTION				N/A			
	3.05	BASEMENT EXTERIOR WALLS				N/A			
	3.06	BASEMENT FOUNDATIONS				N/A			
	3.07	EXTERIOR WALLS - CONSTRUCTION				N/A			
	3.08	EXTERIOR ENCLOSURES				N/A			
	3.09	ENCLOSURES OF HEATING ROOMS				N/A			
	3.10	ENCLOSURES OF HALLS & LOBBIES				N/A			
PART 4. FIRE & SAFETY REQUIREMENTS	4.01	STAIRWAY ENCLOSURES				N/A			
	4.02	ELEVATOR ENCLOSURES				N/A			
	4.03	ENCLOSURES OF HEATING ROOMS				N/A			
	4.04	ENCLOSURES OF HALLS & LOBBIES				N/A			
	4.05	OTHER ENCLOSURES				N/A			
	4.06	INTERIOR WALL AND CIG FINISHES				N/A			
	4.07	STORAGE ROOMS COVER 600 SQ FT.				N/A			
	4.08	FIRE - RESISTIVE MATERIALS AND CONSTRUCTION				N/A			
	4.09	ACCEPTED ENGINEERS PRACTICE RECOGNIZED AGENCIES				N/A			
	4.10	FIRE PROTECTION EQUIPMENT				N/A			
PART 5. SPECIAL REQUIREMENTS	5.01	FLOOR CONSTRUCTION				N/A			
	5.02	ELEVATOR HOISTS				N/A			
	5.03	MEZANINE FLOORS				N/A			
	5.04	BASEMENT CONSTRUCTION				N/A			
	5.05	BASEMENT EXTERIOR WALLS				N/A			
	5.06	BASEMENT FOUNDATIONS				N/A			
	5.07	EXTERIOR WALLS - CONSTRUCTION				N/A			
	5.08	EXTERIOR ENCLOSURES				N/A			
	5.09	ENCLOSURES OF HEATING ROOMS				N/A			
	5.10	ENCLOSURES OF HALLS & LOBBIES				N/A			



AGENCY TEST NO.	
DATE NO.	
DRAWING NUMBER	IL0912-02
REV	4



CPS TALCOTT  
SITE NO: IL0912  
1940 W OHIO  
CHICAGO, IL 60637

Goodman Networks  
900 NATIONAL PARKWAY SUITE 310  
SCHENGBURG, IL 60173

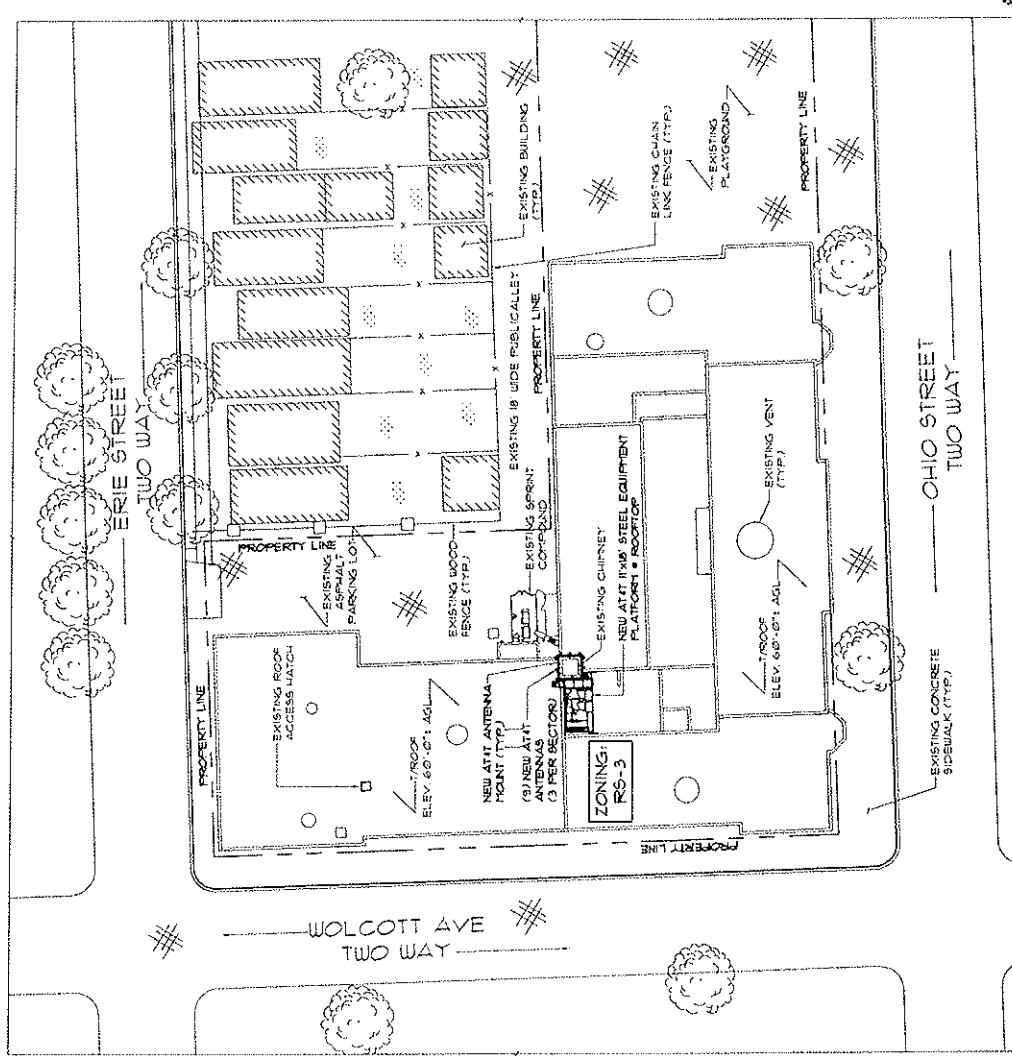
National Wireless Ventures, LLC  
1402 N. ACRES RD  
SUITE 1100  
CHICAGO, IL 60641

Palerson Engineering Consultants  
9650 W BRYN MAWR AVE  
SUITE 1000  
ROSEMONT, IL 60018  
TEL 630.570.0200  
FAX 630.570.0206  
DESIGN FIRM NO. B-0002999

CHICAGO, ILLINOIS 60641

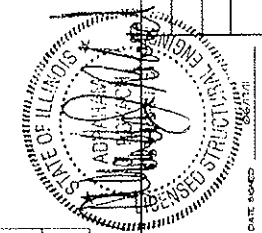


NOTE:  
FOR ENTIRE PROPERTY  
SEE SURVEY.



**AT&T**  
SITE PLAN

REV	DRAWING NUMBER	DATE
4	110912-03	11/07/12



#	BY	DATE	REVISION
1	AS		CPS CONTENTS
2	AS		CPS CONTENTS
3	AS		CPS CONTENTS
4	AS		CPS CONTENTS
5	AS		CPS CONTENTS
6	AS		FINAL
7	AS		REVISED

**AT&T**  
935 NATIONAL PARKWAY  
4th FLOOR  
SCHUBBURG, IL 60071

**GoodmanNetworks**  
900 NATIONAL PARKWAY, SUITE 300  
SCHUBBURG, IL 60713

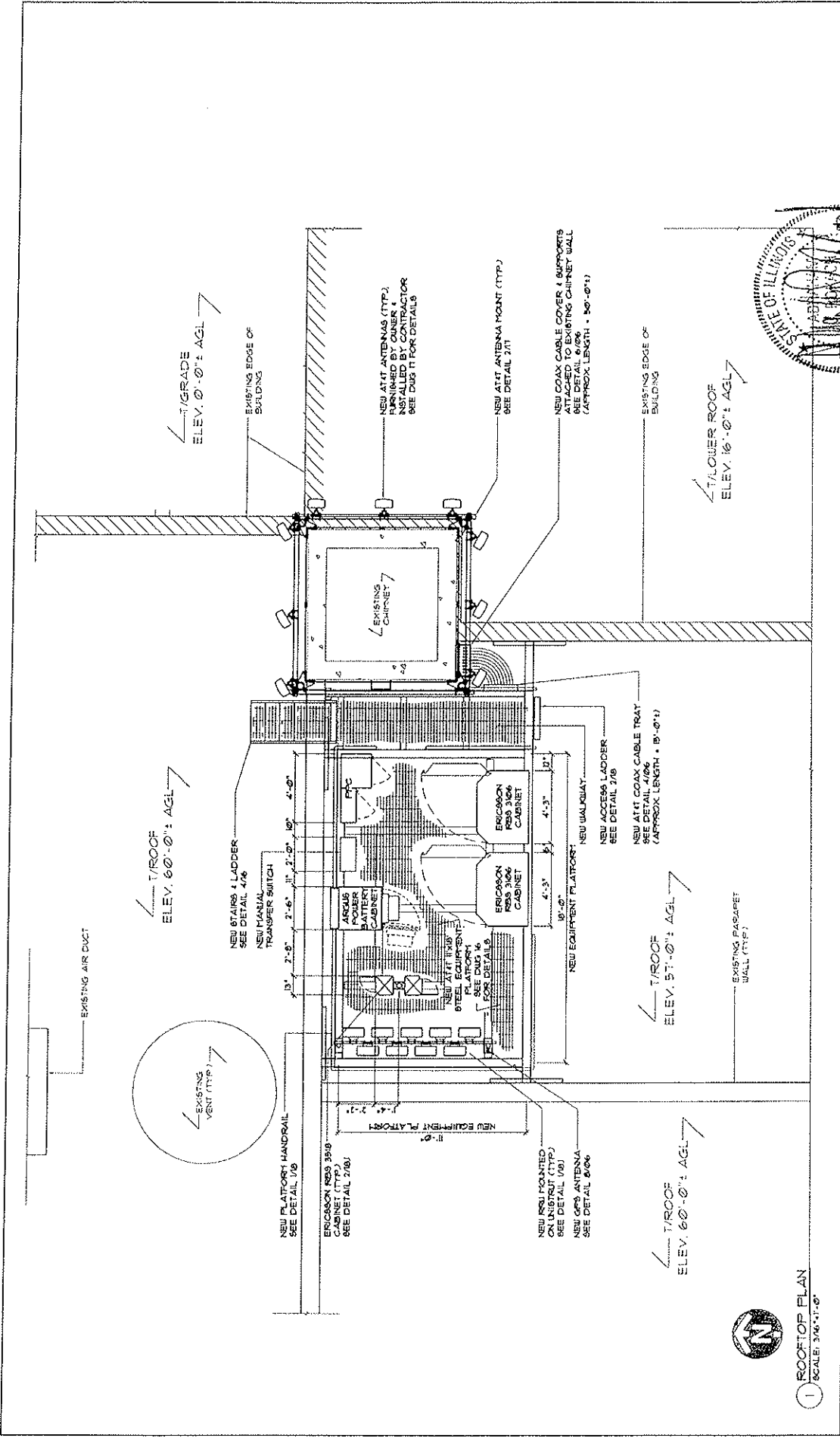
**National Wireless Ventures, LLC**  
1000 W. ACRES RD  
JOLIET, ILLINOIS 60438  
TEL: 847-933-5240  
500 N. LAUREL DRIVE DR.  
SUITE 302  
CHICAGO, ILLINOIS 60641

**NW** **SITE PLAN**  
SCALE: 1"=50'-0"

**ADRIAN ENGINEERS**  
1000 W. BURNHAM AVE  
SUITE 200  
ROSEMONT, ILLINOIS 60018  
TEL: 847-224-0700  
FAX: 847-224-0700  
DESIGN FIRST NO. 847-002-498

THIS DRAWING IS THE PROPERTY OF ADRIAN ENGINEERS CONSULTANTS, INC. IT IS FOR THE EXCLUSIVE USE OF THIS PROJECT. ANY REUSE OR MISUSE WITHOUT THE EXPRESS WRITTEN CONSENT OF ADRIAN ENGINEERS CONSULTANTS, INC. IS PROHIBITED.

THIS DRAWING IS THE PROPERTY OF TALLENTON ENGINEERING CONSULTANTS, INC. IT IS FOR THE EXCLUSIVE USE OF THIS PROJECT. ANY RE-USE OF THIS DRAWING WITHOUT THE EXPRESSED WRITTEN CONSENT OF TALLENTON ENGINEERING CONSULTANTS, INC. IS PROHIBITED.



1 ROOFTOP PLAN  
SCALE: 3/16" = 1'-0"

 National Wireless 13000 W. ADAMS RD. JOLIET, ILLINOIS 62435 TEL: 815-739-0700 900 N. LAKE SHORE DR. SUITE 301 CHICAGO, ILLINOIS 60611		 GoodmanNetworks 900 NATIONAL PARKWAY SUITE 200 SCHLAUBURG, IL 60173		 AT&T 320 NATIONAL PARKWAY 4th FLOOR SCHLAUBURG, IL 60173		CP9 TALCOTT SITE NO: IL0912 1940 W. CHICAGO CHICAGO, IL 60672		DATE: 08/20/00 DRAWN: J. B. [unreadable] CHECKED: [unreadable] APPROVED: [unreadable]		
3	08/20/00	CP9 CONTENTS	AG	AG	AT&T	ROOFTOP PLAN	DRAWING NUMBER	IL0912-04	REV	4
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5	04/26/01	CP9 CONTENTS	RD	AG						
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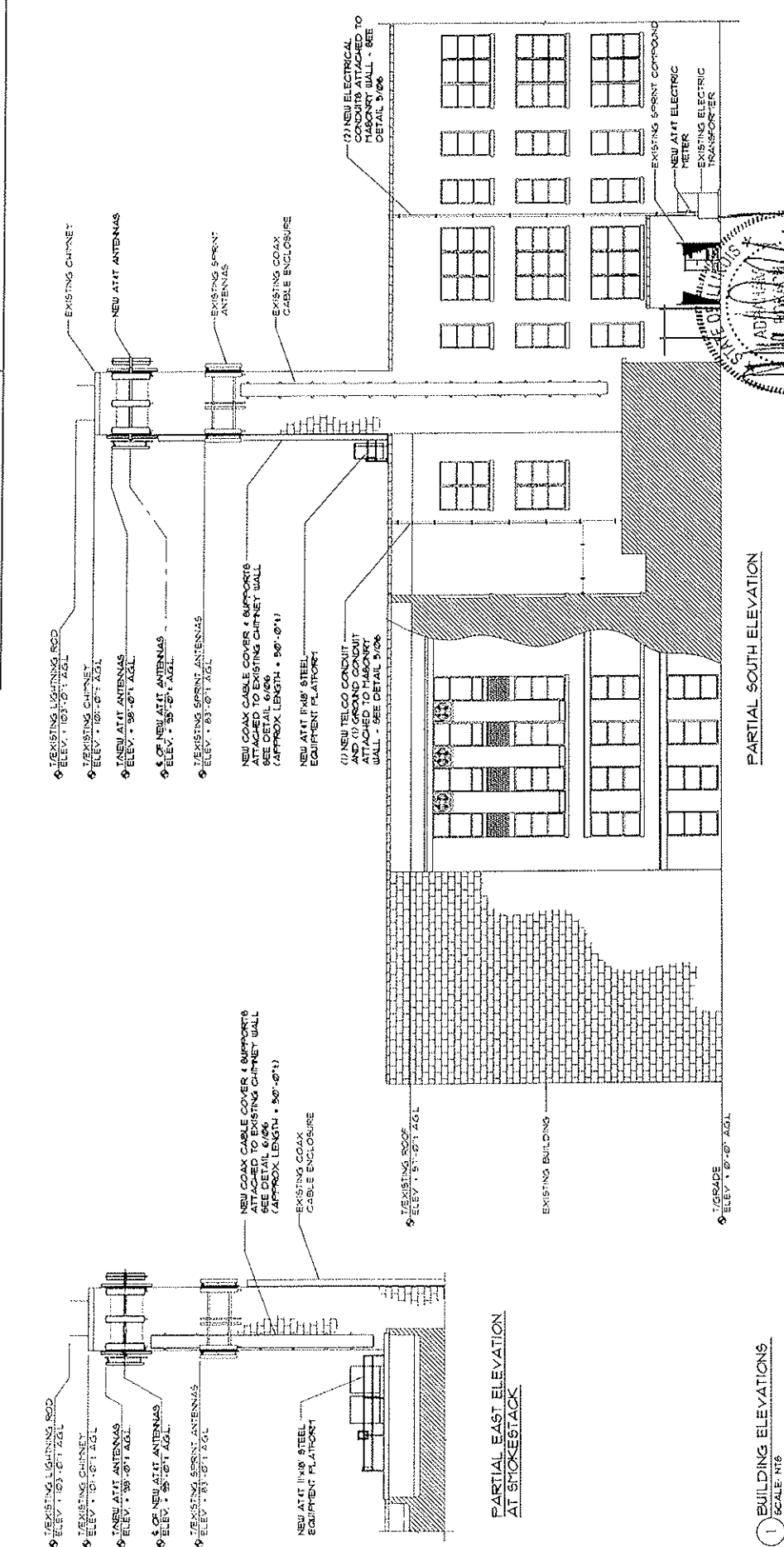
**ANTENNA NOTES:**

- THE SIZE, HEIGHT, AND DIRECTION OF THE ANTENNA SHALL BE ADJUSTED TO MEET SYSTEM REQUIREMENTS.
- CONTRACTOR SHALL VERIFY HEIGHT OF ANTENNA WITH AT&T REPRESENTATIVE.
- ALL ANTENNA AZIMUTH TO BE FROM TRUE NORTH.

**STRUCTURAL NOTES:**

- STRUCTURAL CALCULATION PREPARED BY PULLETON ENGINEERING CONSULTANTS. CONTRACTOR TO COORDINATE WITH AT&T REPRESENTATIVE TO OBTAIN A COPY.
- CONTRACTOR TO REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

**NOTE:** CONDUITS, PIPE SUPPORTS & HARDWARE SHALL BE PAINTED TO MATCH EXISTING BUILDING. EXACT COLOR TO BE APPROVED BY OWNER.



**AT&T**

930 NATIONAL PARKWAY  
4th FLOOR  
SCHAMBERG, IL 60173

DATE PLOTTED: 05/01/03

NO.	DATE	REVISION	BY	CHK.	APP'D BY
1	05/01/03	ISSUE FOR PERMIT	...	...	...
2	05/01/03	REVISED PER AT&T COMMENTS	...	...	...
3	05/01/03	REVISED PER AT&T COMMENTS	...	...	...
4	05/01/03	REVISED PER AT&T COMMENTS	...	...	...
5	05/01/03	REVISED PER AT&T COMMENTS	...	...	...
6	05/01/03	REVISED PER AT&T COMMENTS	...	...	...
7	05/01/03	REVISED PER AT&T COMMENTS	...	...	...
8	05/01/03	REVISED PER AT&T COMMENTS	...	...	...
9	05/01/03	REVISED PER AT&T COMMENTS	...	...	...
10	05/01/03	REVISED PER AT&T COMMENTS	...	...	...

**AT&T**

930 NATIONAL PARKWAY  
4th FLOOR  
SCHAMBERG, IL 60173

**CPS TALCOTT**

SITE NO: IL0912  
1040 W CHICAGO  
CHICAGO, IL 60632

**GoodmanNetworks**

900 NATIONAL PARKWAY, SUITE 310  
SCHAMBERG, IL 60173

**National Wireless**

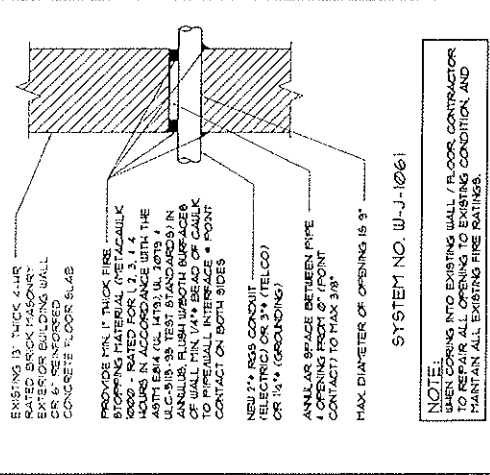
1900 W AGREE'S RD  
JOLIET, ILLINOIS 60438  
TEL 815-933-5448  
505 N LAKE SHORE DR  
CHICAGO, ILLINOIS 60611

**PULLETON ENGINEERS CONSULTANTS**

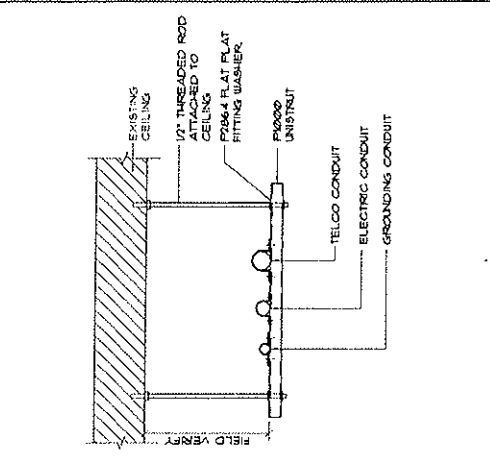
3060 W 120th ST  
SUITE 100  
ROSEMONT, ILLINOIS 60018  
TEL 630-571-0700  
FAX 630-571-0700

**1 BUILDING ELEVATIONS**

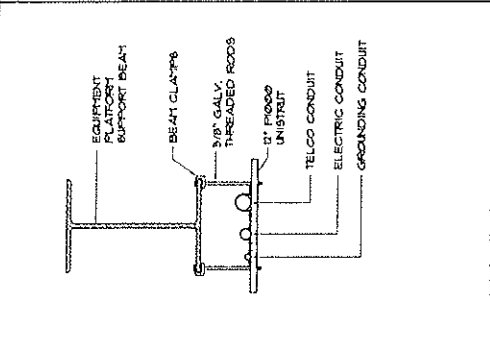
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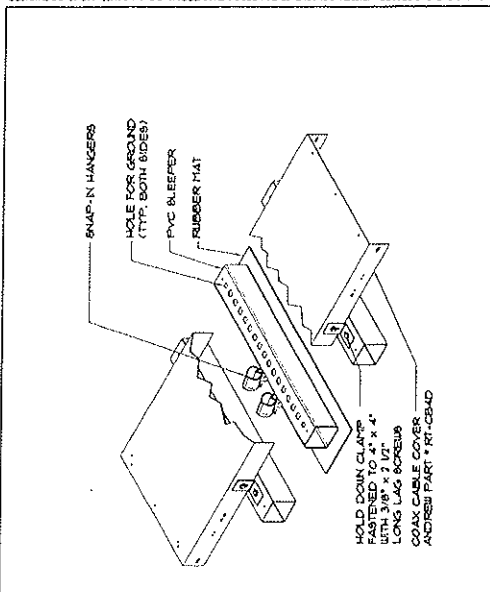
**1 WALL/FLOOR PENETRATION**  
SCALE: NTS



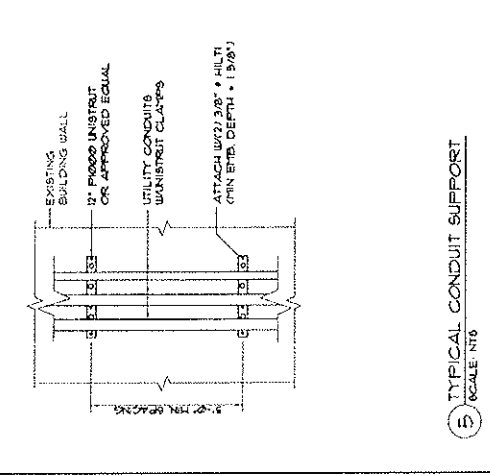
**2 TYPICAL CONDUIT ATTACHMENT TO CEILING**  
SCALE: NTS



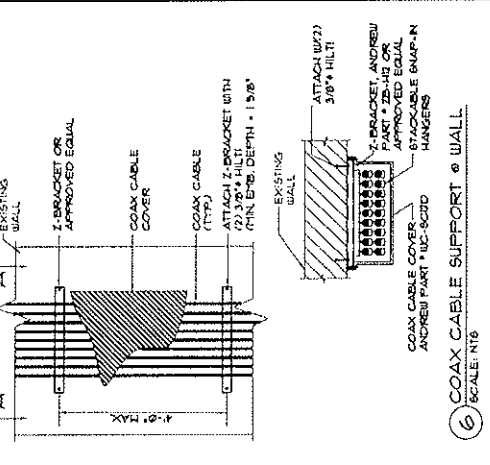
**3 CONDUIT SUPPORT TO PLATFORM BEAM**  
SCALE: NTS



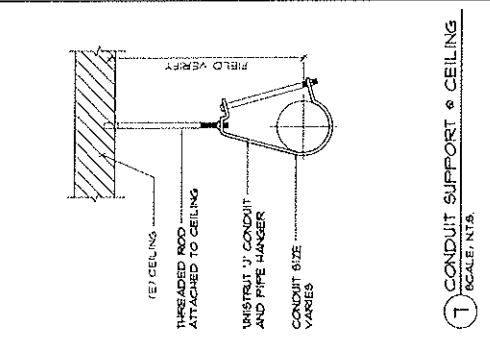
**4 ROOF MOUNTED COAX CABLE TRAY**  
SCALE: NTS



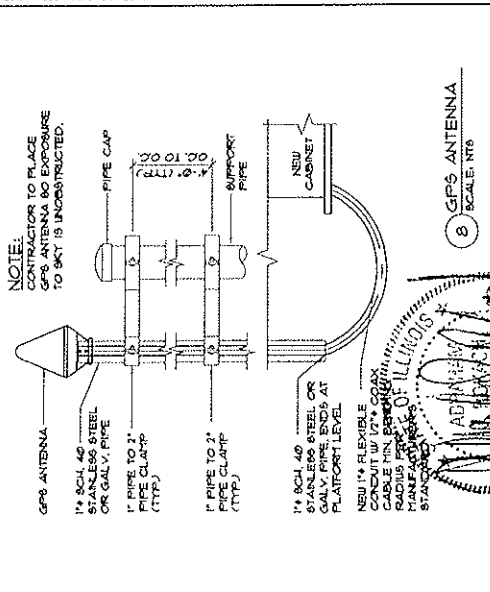
**5 TYPICAL CONDUIT SUPPORT**  
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**6 COAX CABLE SUPPORT TO WALL**  
SCALE: NTS



**7 CONDUIT SUPPORT TO CEILING**  
SCALE: NTS

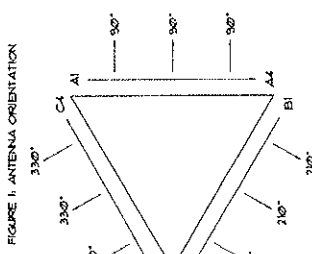


**8 GPS ANTENNA**  
SCALE: NTS

<p><b>National Wireless</b> S. Wireless, LLC 1800 W. JACRES RD JOLIET, IL 61731-5438 TEL: 815-833-5449</p>		<p><b>GoodmanNetworks</b> A COMMERCIAL NETWORKS COMPANY 900 NATIONAL PARKWAY, SUITE 300 SCHLAUBURG, IL 60173</p>		<p><b>AT&amp;T</b> 950 NATIONAL PARKWAY SCHLAUBURG, IL 60173</p>	
<p>ILLINOIS PROFESSIONAL ENGINEER SEAL NO. 180717/11</p>		<p>DATE PLOTTED: 08/17/11 APP'D BY: [Signature]</p>		<p>CONSTRUCTION DETAILS DRAWING NUMBER: 110912-06 REV: 4</p>	

SECTOR	ANTENNA NUMBER	POLARITY / PORT / PORT COLOR	TOP AND BOTTOM SUPPORT COLOR	COAX ID	ANTENNA MODEL	ANTENNA VENDOR	TWA	ADJUTH	FREQUENCY CHANNEL	ELECTRICAL CHANNEL	ANTENNA ORIENT TO THE GROUND	ANTENNA HEIGHT TO THE GROUND	COAXIAL FEEDER SIZE	LENGTH	
A	A1	850 R W 8L	850 R W 8L	A1-1	RA211T52.00	POWERWAVE	KRT 12 76/A	30'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
		1500 R W 8R	1500 R W 8R	A1-2	RA211T52.00	POWERWAVE	KRT 12 76/A	30'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
		850 R BR 8L	850 R BR 8L	A3-1	RA211T52.00	POWERWAVE	KRT 12 76/A	30'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
		1500 R BR 8R	1500 R BR 8R	A3-2	RA211T52.00	POWERWAVE	KRT 12 76/A	30'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
B	B1	850 R V 8L	850 R V 8L	A4-1	RA211T52.00	POWERWAVE	KRT 12 76/A	30'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
		1500 R V 8R	1500 R V 8R	A4-2	RA211T52.00	POWERWAVE	KRT 12 76/A	30'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
		850 BL W 8L	850 BL W 8L	B1-1	RA211T52.00	POWERWAVE	KRT 12 76/A	110'	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'
		1500 BL W 8R	1500 BL W 8R	B1-2	RA211T52.00	POWERWAVE	KRT 12 76/A	110'	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'
C	C1	850 B BR 8L	850 B BR 8L	B3-1	RA211T52.00	POWERWAVE	KRT 12 76/A	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
		1500 B BR 8R	1500 B BR 8R	B3-2	RA211T52.00	POWERWAVE	KRT 12 76/A	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
		850 BL V 8L	850 BL V 8L	B4-1	RA211T52.00	POWERWAVE	KRT 12 76/A	210'	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'
		1500 BL V 8R	1500 BL V 8R	B4-2	RA211T52.00	POWERWAVE	KRT 12 76/A	210'	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'
C	C3	850 GR W 8L	850 GR W 8L	C1-1	RA211T52.00	POWERWAVE	KRT 12 76/A	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
		1500 GR W 8R	1500 GR W 8R	C1-2	RA211T52.00	POWERWAVE	KRT 12 76/A	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
		850 GR BR 8L	850 GR BR 8L	C3-1	RA211T52.00	POWERWAVE	KRT 12 76/A	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
		1500 GR BR 8R	1500 GR BR 8R	C3-2	RA211T52.00	POWERWAVE	KRT 12 76/A	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
C	C4	850 GR V 8L	850 GR V 8L	C4-1	RA211T52.00	POWERWAVE	KRT 12 76/A	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
		1500 GR V 8R	1500 GR V 8R	C4-2	RA211T52.00	POWERWAVE	KRT 12 76/A	330'	TBD	TBD	95'-0"	91'-0"	7/8" AVAT-40	80'	
TWA MODEL ALL SECTORS (6-TOTAL)															
ERICSSON															

NEW MATERIAL EXCLUDING COAX - ALL MATERIAL PROVIDED BY CONTRACTOR



1 ANTENNA INFORMATION CHART

**National Wireless**  
 Nature, LLC  
 1800 W. ACRES RD.  
 JOLIET, ILLINOIS 62435  
 TEL: 815-993-7500  
 FAX: 815-993-7500  
 DESIGN FIRST NO. 184-007490

**Goodman Networks**  
 900 NATIONAL PARKWAY SUITE 300  
 SCHMIDSBURG, IL 60173

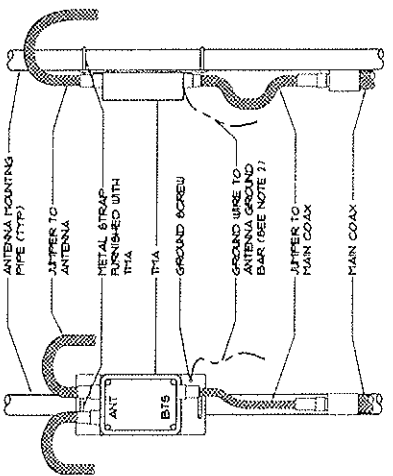
**CP&S TALCOTT**  
 SITE NO: IL0912  
 848 W OHIO  
 CHICAGO, IL 60627

**AT&T**  
 900 NATIONAL PARKWAY  
 4TH FLOOR  
 SCHMIDSBURG, IL 60173

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DATE PLOTTED		DATE PLOTTED	DATE PLOTTED
SCALE AS SHOWN		SCALE AS SHOWN	

**AT&T**  
 ANTENNA INFORMATION CHART  
 DRAWING NUMBER  
 REV 4  
 IL0912-07

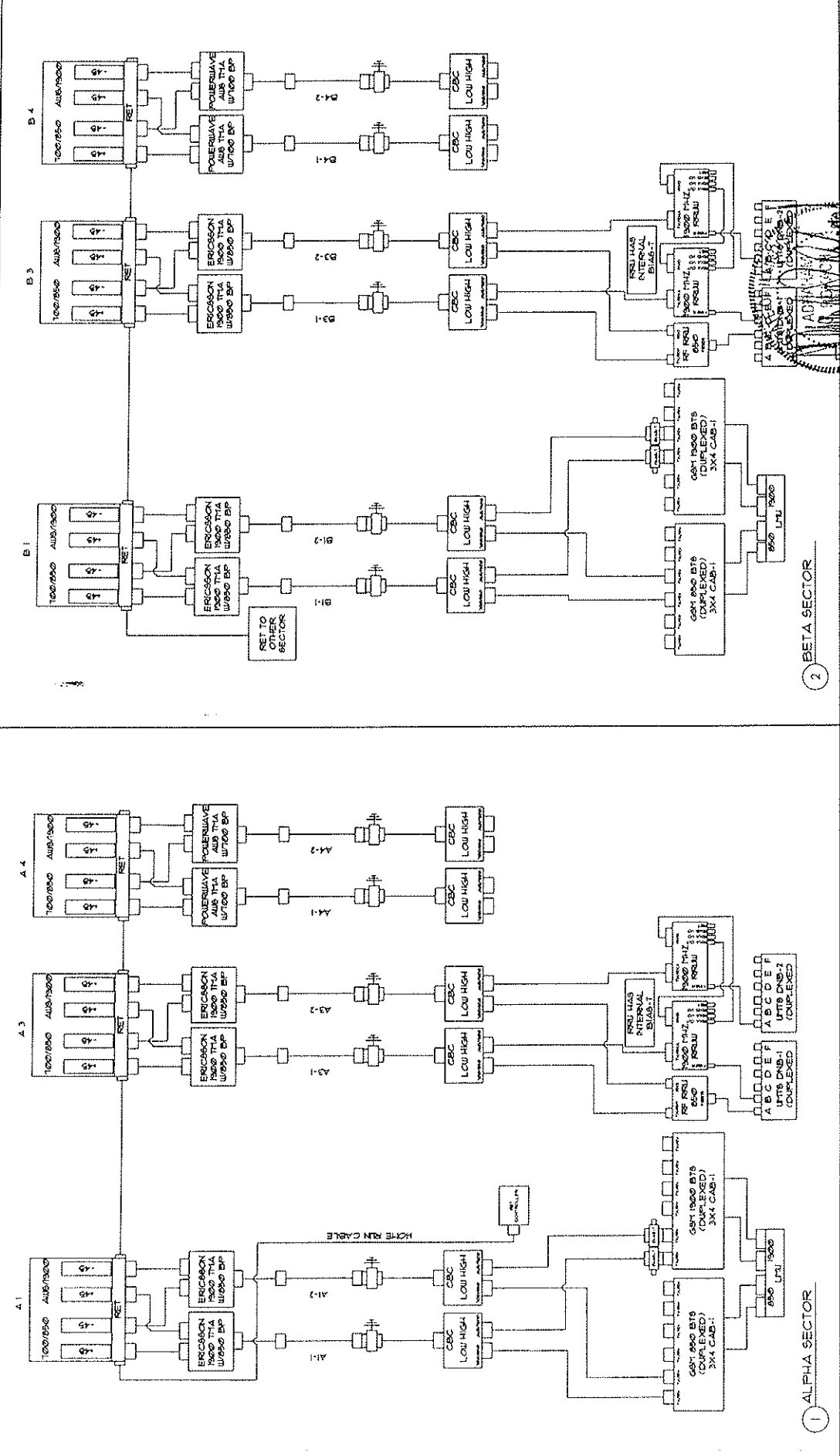
2 TWA MOUNTING DETAIL



- NOTE:
- TWA IS A WEATHER-PROOFED ENCLOSURE RATED TO IP65.
  - BOND THE GROUND STUD TO GROUND BAR WITH # 6 AWG GROUND WIRE.
  - PROVIDE SUFFICIENT LENGTH OF JIFFER TO ALLOW FOR PROPER APPLICATION OF WEATHER PROOFING AT ANTENNA AND TWA CONNECTIONS.
  - IF POSSIBLE THE TWA SHALL BE MOUNTED BEHIND ANTENNA TO MINIMIZE WIND LOADING ON STRUCTURE.
  - TWA SHALL BE MOUNTED VERTICALLY WITH WEEP HOLE FACING DOWN.



**AT&T**  
 ANTENNA INFORMATION CHART  
 DRAWING NUMBER  
 REV 4  
 IL0912-07



**AT&T**

ANTENNA COAX DIAGRAM

DRAWING NUMBER: **1L0912-08**

REV: **4**

**AT&T**

330 NATIONAL PARKWAY  
4TH FLOOR  
SCARBOROUGH, IL 60173

DATE PLOTTED: **06/11/98**  
DRAWN BY: **MM**  
CHECKED BY: **MM**

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76	CPS COMMENTS	AS	AG
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91	CPS COMMENTS	AS	AG
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100	CPS COMMENTS	AS	AG

**1 ALPHA SECTOR**

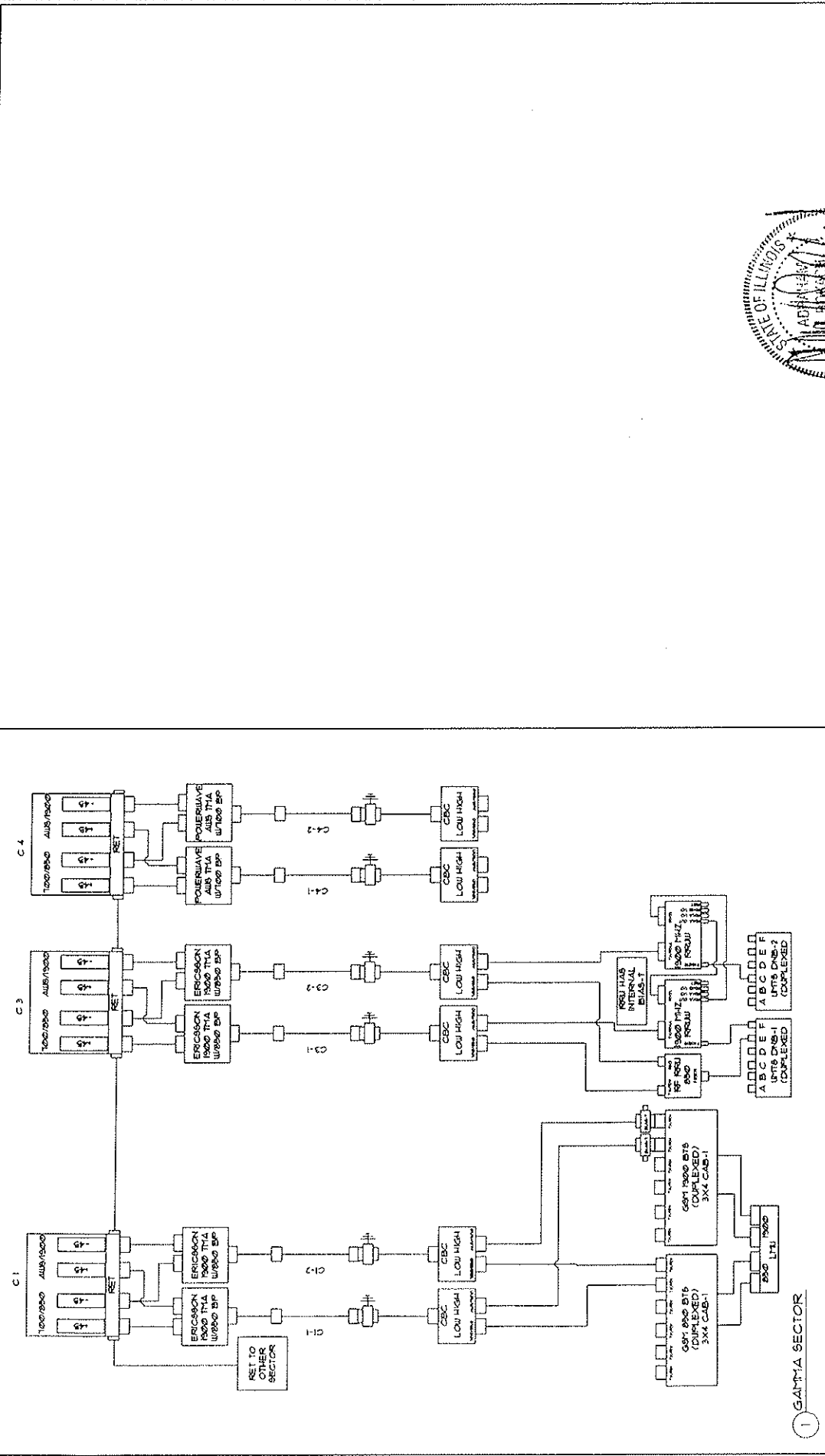
**2 BETA SECTOR**

**National Wireless Ventures, LLC**

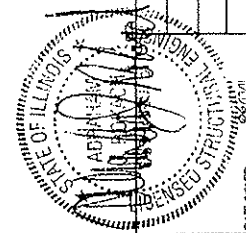
9600 W. BRYAN BLVD. AVE  
SUITE 200  
ROSELTON, IL 60435  
TEL: 847-351-0206  
FAX: 847-351-0206  
DESIGN PART NO: 84-001498

**Goodman Networks**

900 NATIONAL PARKWAY, SUITE 130  
SCARBOROUGH, IL 60173



① GAI-TA SECTOR



5	10/25/11	CPS CONTENTS	AG	AG
4	10/10/11	CPS CONTENTS	RT	AG
3	08/16/11	CPS CONTENTS	NO	AG
2	08/16/11	CPS CONTENTS	NO	AG
1	08/16/11	CPS CONTENTS	NO	AG
0	08/16/11	CPS CONTENTS	NO	AG
0	08/16/11	CPS CONTENTS	NO	AG
0	08/16/11	CPS CONTENTS	NO	AG
0	08/16/11	CPS CONTENTS	NO	AG
0	08/16/11	CPS CONTENTS	NO	AG
0	08/16/11	CPS CONTENTS	NO	AG

SCALE: AS SHOWN	DATE: 08/16/11
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**AT&T**  
 930 NATIONAL PARKWAY  
 4th FLOOR  
 SCHLAUBURG, IL 60173

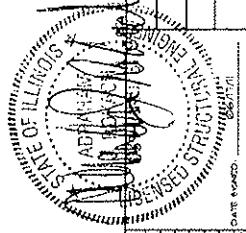
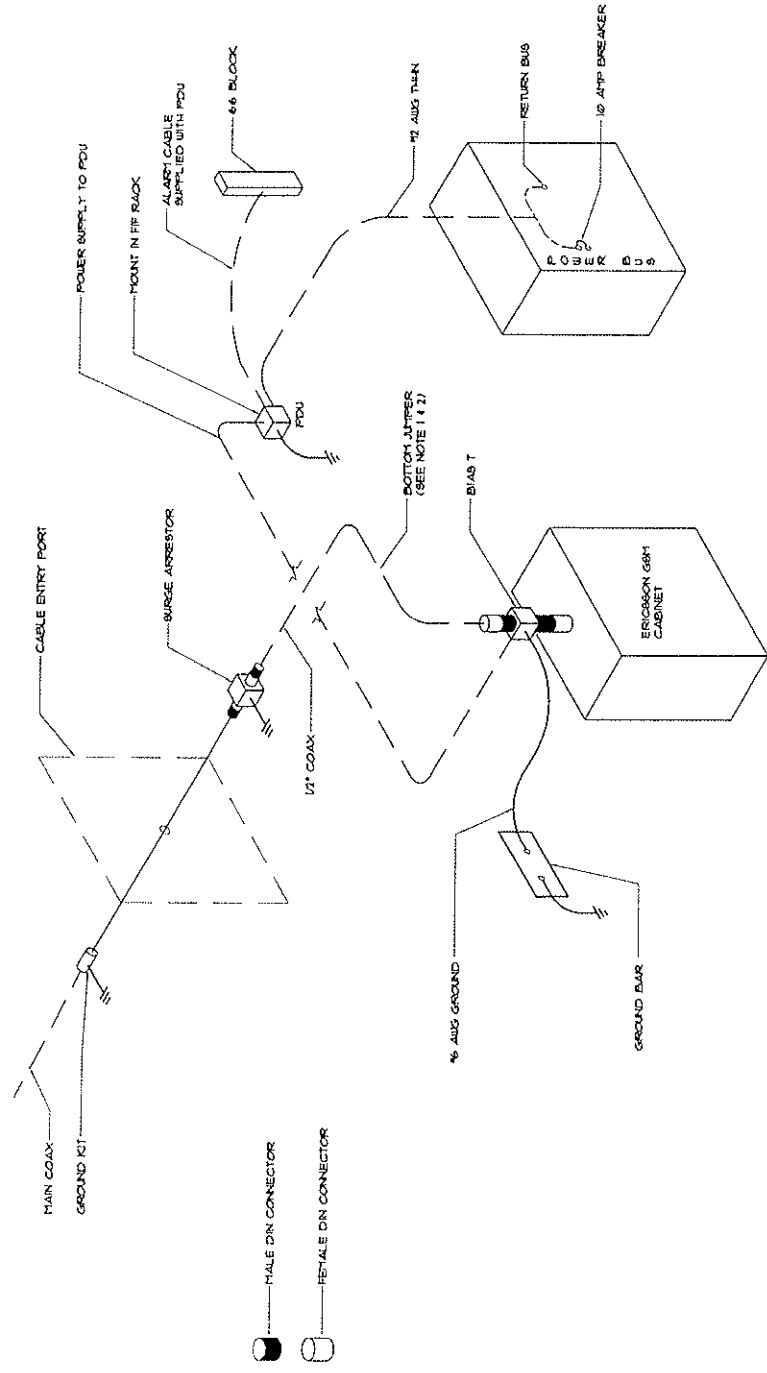
**CPS TALCOTT**  
 SITE NO: IL0912  
 1840 W OHIO  
 CHICAGO, IL 60612

**GoodmanNetworks**  
 690 NATIONAL PARKWAY, SUITE 300  
 SCHLAUBURG, IL 60173

**National Wireless**  
 Ventures, LLC  
 1900 W ACRES RD  
 JOLETT, ILLINOIS 60139  
 TEL: 815-933-1348  
 505 N. STATE ST. 5TH FLOOR DR.  
 CHICAGO, ILLINOIS 60611

**Alleston**  
 1170 W. WILSON AVENUE  
 SUITE 200  
 ROSELAND, ILLINOIS 60018  
 TEL: 815-351-0100  
 FAX: 815-351-0100  
 DESIGN FIRST NO. 194-2007429

NOTE:  
 1. FOR BOTTOM JUMPERS USE 1/2" COAX.  
 2. FABRICATE JUMPERS TO ASSURE THAT THE CONNECTOR IS NOT STUCK IN PLACE BY ALLOWING ENOUGH BLACK TO REACH ALL BIAS CONNECTIONS IF CABINET IS NOT IN PLACE.



1 BOTTOM JUMPER & BIAS DETAIL  
 SCALE: NTS

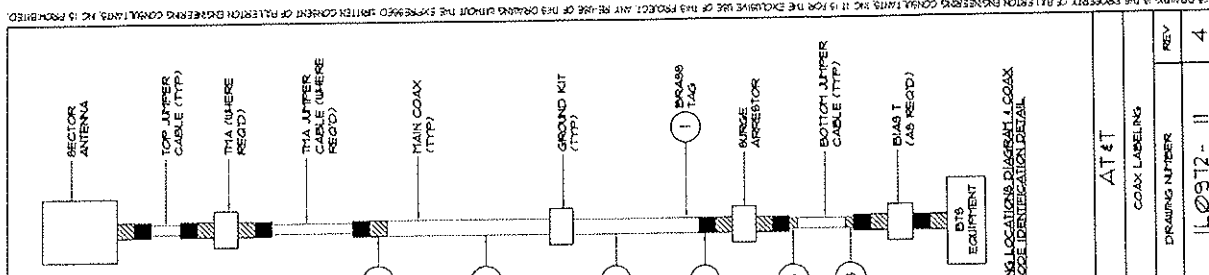
National Wireless 1800 W. ACRES RD. JOLIET, ILLINOIS 60435 TEL: 815-933-5449 525 N. STATE ST. CHICAGO, ILLINOIS 60611	GoodmanNetworks 900 NATIONAL PARKWAY SUITE 130 SCHUNBERG, IL 60173	CPS TALCOTT SITE NO: IL0912 1940 W OHIO CHICAGO, IL 60612	AT&T 900 NATIONAL PARKWAY 4th FLOOR SCHUNBERG, IL 60173	5 10/25/11 CPS CONTENTS AS AG	6 11/13/11 CPS CONTENTS RT AG	7 12/16/11 CPS CONTENTS NO AG	8 1/17/12 CPS CONTENTS RS AG	9 2/22/12 CPS CONTENTS RO AG	10 3/22/12 FINAL DL AG	11 4/2/12 REVISION SCALE: AS SHOWN	DATE PLOTTED: 06/17/11
				DRAWING NUMBER IL0912-10	REV 4	BOTTOM JUMPER & BIAS T DETAIL AT&T					



### CABLE MARKING COLOR CONVENTION TABLE

ALPHA, A, X, Y	A1-1 -45	A1-2 -45	A2-1 -45	A2-2 -45	A3-1 -45	A3-2 -45	A4-1 -45	A4-2 -45
SECTOR ANTENNA PORT (A1)	RED ORANGE / VIOLET	RED ORANGE / VIOLET	RED ORANGE / VIOLET	RED ORANGE / VIOLET	RED ORANGE / VIOLET	RED ORANGE / BROWN	RED ORANGE / VIOLET	RED ORANGE / BROWN
BAND (850/1900)	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET
BETA, B, Y, Z	B1-1 -45	B1-2 -45	B2-1 -45	B2-2 -45	B3-1 -45	B3-2 -45	B4-1 -45	B4-2 -45
SECTOR ANTENNA PORT (B1)	BLUE ORANGE / BROWN	BLUE ORANGE / BROWN	BLUE ORANGE / BROWN	BLUE ORANGE / BROWN	BLUE ORANGE / BROWN	BLUE ORANGE / BROWN	BLUE ORANGE / BROWN	BLUE ORANGE / BROWN
BAND (850/1900)	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET
GAMMA, G, Z, Y	G1-1 -45	G1-2 -45	G2-1 -45	G2-2 -45	G3-1 -45	G3-2 -45	G4-1 -45	G4-2 -45
SECTOR ANTENNA PORT (G1)	GREEN ORANGE / BROWN	GREEN ORANGE / BROWN	GREEN ORANGE / BROWN	GREEN ORANGE / BROWN	GREEN ORANGE / BROWN	GREEN ORANGE / BROWN	GREEN ORANGE / BROWN	GREEN ORANGE / BROWN
BAND (850/1900)	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET
DELTA, D, M	D1-1 -45	D1-2 -45	D2-1 -45	D2-2 -45	D3-1 -45	D3-2 -45	D4-1 -45	D4-2 -45
SECTOR ANTENNA PORT (D1)	YELLOW ORANGE / BROWN	YELLOW ORANGE / BROWN	YELLOW ORANGE / BROWN	YELLOW ORANGE / BROWN	YELLOW ORANGE / BROWN	YELLOW ORANGE / BROWN	YELLOW ORANGE / BROWN	YELLOW ORANGE / BROWN
BAND (850/1900)	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET	ORANGE / VIOLET

- NOTE:**
- ALL COLOR CODE TAPE SHALL BE 3"-36" AND SHALL BE INSTALLED USING A MINIMUM OF (3) WRAPS OF TAPE.
  - ALL COLOR BANDS INSTALLED AT THE TOWER TOP SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACING BETWEEN EACH COLOR.
  - ALL COLOR BANDS INSTALLED AT OR NEAR THE GROUND MAY BE ONLY 3/4" WIDE. EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
  - EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH 3/4" COLOR BANDS JUST PRIOR TO ENTERING THE B18 OR TRANSMITTER BUILDING.
  - ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" BANDS ON EACH END OF THE BOTTOM JUMPER.
  - ALL COLOR CODES SHALL BE INSTALLED 60 AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.
  - EACH COLOR BAND SHALL HAVE A MINIMUM OF (3) WRAPS AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT 80 AS TO AVOID UNRAVELING.
  - X-POLE ANTENNAS SHOULD USE "XX-1" FOR THE "-45" PORT, "XX-2" FOR THE "-45" PORT.
  - COLOR BAND 4 REFERS TO THE FREQUENCY BAND: ORANGE = 850, VIOLET = 1900. USED ON JUMPERS ONLY.
  - RF FEED LINE SHALL BE IDENTIFIED WITH A METAL TAG (STAINLESS OR BRASS) AND STAMPED WITH THE SECTOR ANTENNA POSITION AND CABLE NUMBER.
  - ANTENNAS MUST BE IDENTIFIED, USING THE SECTOR LETTER AND ANTENNA NUMBER WITH A BLACK MARKER PRIOR TO INSTALLATION.



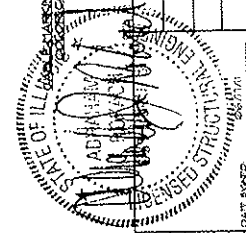
### CABLE MARKING LOCATION TABLE

TAPE TAG	LOCATIONS
X	EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS
X	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE B18 OR TRANSMITTER BUILDING
X	MARKING TAGS SHALL BE ATTACHED AT CABLE ENTRY POINT ON THE INTERIOR OF THE SHELTER
X	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF JUMPER

FIGURE 2. TAG DETAIL EXAMPLE

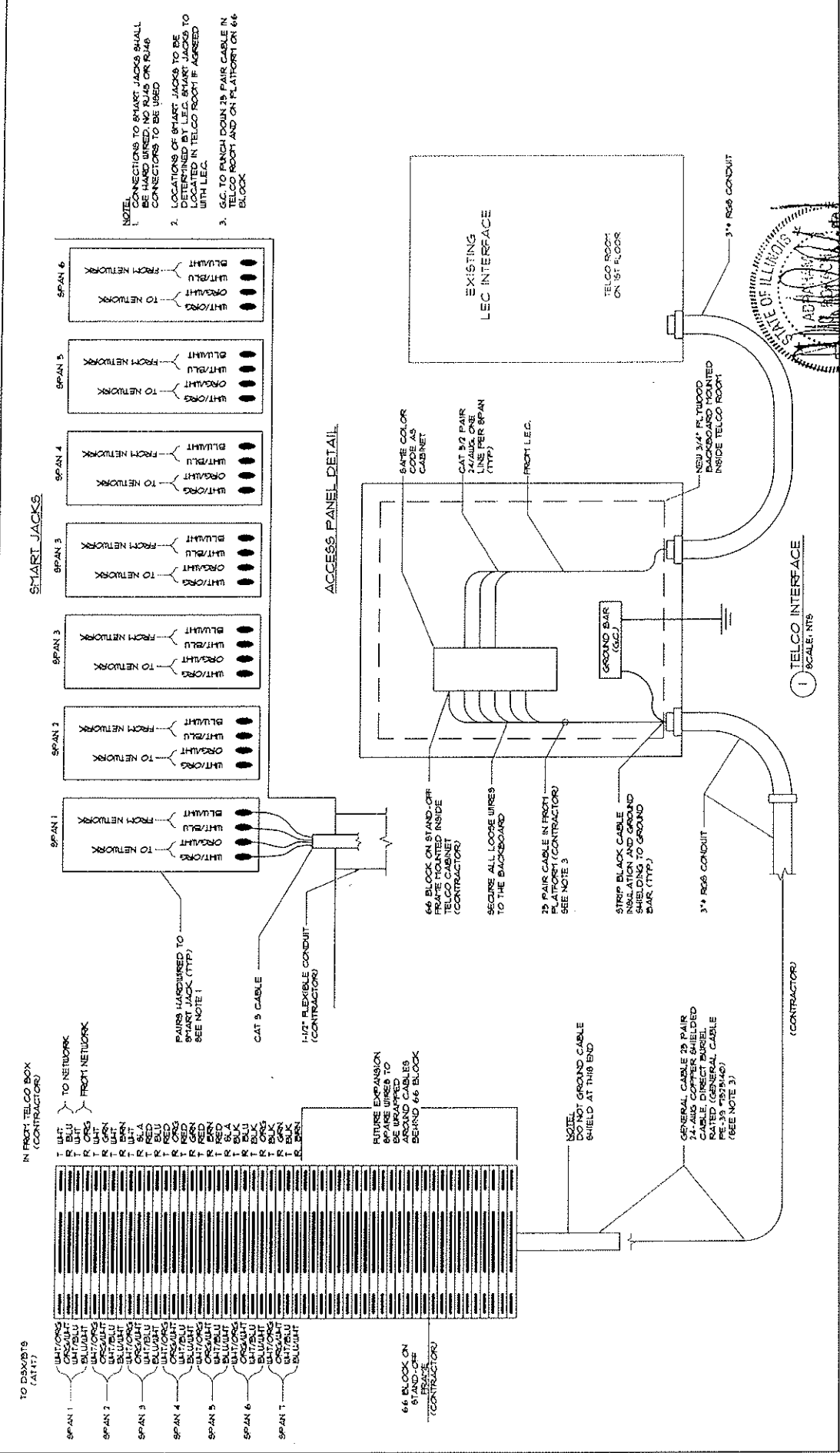


CABLE MARKING TAGS TO PROVIDE ADDITIONAL IDENTIFICATION, RF CABLES SHALL BE IDENTIFIED WITH A METAL TAG MADE OF STAINLESS STEEL OR BRASS AND STAMPED WITH THE SECTOR ANTENNA POSITION AND CABLE NUMBER. THE TAG SHOULD BE ATTACHED WITH CORROSIVE PROOF WIRE OR WAX STRING AROUND THE CABLE. THE TAG SHOULD BE LABELED AS SHOWN ABOVE IN FIGURE 2.



### COAX LABELING

	National Wireless 1900 W. ACRES RD. JOLIET, ILLINOIS 60438 TEL: 815-933-5149 905 N. LAKE SHORE DR. CHICAGO, ILLINOIS 60641		Goodman Networks 500 NATIONAL PARKWAY, SUITE 200 SCHENAGU, ILLINOIS 60173		AT&T 500 NATIONAL PARKWAY SCHENAGU, ILLINOIS 60173
CPS TALCOTT		SITE NO: IL0912		DRAWING NUMBER	
IL0912		REV		4	



<p><b>AT&amp;T</b> 930 NATIONAL PARKWAY SCHLAUBURG, IL 60132</p>		<p>DATE: 11/10/93 REVISION: 1 SCALE: AS SHOWN</p>	
<p>9/10/93/1 CPS CONTENTS AG AG 4/10/93/1 CPS CONTENTS RT AG 3/24/93/1 CPS CONTENTS RD AG 2/24/93/1 CPS CONTENTS NC AG 1/27/93/1 CPS CONTENTS ND AG 6/02/93 FINAL</p>		<p>DATE: 11/10/93 REVISION: 1 SCALE: AS SHOWN</p>	
<p><b>National Wireless</b> Ventures, LLC 9060 W. ACRES RD. JOLIET, IL 60431 TEL: 815-933-5448 905 N. LAKE SHORE DR. SUITE 507 CHICAGO, ILLINOIS 60611</p>		<p><b>GoodmanNetworks</b> 900 NATIONAL PARKWAY, SUITE 020 SCHLAUBURG, IL 60132</p>	
<p><b>CPS TALCOTT</b> SITE NO: IL0912 840 W. OHIO CHICAGO, IL 60612</p>		<p><b>AT&amp;T</b> TELCO INTERFACE DRAWING NUMBER IL0912-12 REV 4</p>	

POS	CABLE IDENT	ALARM DEFINITION	LEVEL / ID	STATE	ALARM RESPONSE	DEVICE
1	WHITE/BLUE	BITE DOOR OPEN	1 / 0	BREAKING	FACTORY INSTALLED	FACTORY INSTALLED
2	WHITE/WHITE	HI TEMP RADIO ROOM	1 / 1	BREAKING	FACTORY INSTALLED	FACTORY INSTALLED
3	ORANGE/WHITE	AC SURGE ARRESTOR FAIL	1 / 2	BREAKING	FACTORY INSTALLED	FACTORY INSTALLED
4	GREEN/WHITE	SMOKE DETECTOR	1 / 3	BREAKING	FACTORY INSTALLED	FACTORY INSTALLED
5	BROWN/BROWN	AC DISTRIBUTION FAIL	1 / 4	BREAKING	FACTORY INSTALLED	FACTORY INSTALLED
6	RED/BLUE	LO TEMP RADIO ROOM	1 / 5	BREAKING	FACTORY INSTALLED	FACTORY INSTALLED
7	ORANGE/RED	24V BATT DISCONNECT RUBE FAIL	1 / 6	BREAKING	WHITE/BLUE	NC
8	GREEN/RED	RECT 8Y8TE1 A1 ALARM FECCO	1 / 7	BREAKING	BLUE/WHITE	COTTON
9	BROWN/RED	RECT 8Y8TE1 A3 ALARM FECCO	1 / 8	BREAKING	VIOLET/RED	MODULAR PLUG
10	BLACK/BLUE	OVER VOLTAGE FECCO	1 / 9	BREAKING	YELLOW/ORANGE	MODULAR PLUG
11	BLACK/BLACK	BATTERY ON DISCHARGE FECCO	1 / A	BREAKING	YELLOW/BROWN	MODULAR PLUG
12	GREEN/BLACK	RUBE FAIL TELCO	1 / B	BREAKING	YELLOW/SLATE	MODULAR PLUG
13	BROWN/BLACK	THA TROUBLE	1 / C	BREAKING	WHITE/SLATE	MODULAR PLUG
14	YELLOW/BLUE	WHITE STROBE FAIL	1 / D	BREAKING	RED/BLACK	MODULAR PLUG
15	ORANGE/WHITE	RED STROBE FAIL	1 / E	BREAKING	WHITE/BLUE	MODULAR PLUG
16	GREEN/WHITE	SIDE LIGHT FAILURE	1 / F	BREAKING	BLUE/WHITE	MODULAR PLUG
17	BROWN/BROWN				WHITE/ORANGE	NC
18	BROWN/YELLOW				ORANGE/WHITE	COTTON
19	BROWN/YELLOW				WHITE/GREEN	NC
20	BROWN/YELLOW				GREEN/WHITE	COTTON

NOTE:  
 1. THE CONTRACTOR HAS MADE THIS INSERT  
 ANY QUESTIONS CONTACT A CONTRACTOR REP.  
 2. POSITION 33 TO 50 ON THE 66 BLOCK IS FOR  
 FUTURE USE  
 3. G.C. SHALL RUN CAT 5 CABLE FROM EQUIPMENT  
 TO ASTERISK (\*) TERMINAL ON 66 BLOCK AND  
 LEAVE COILED AT 66 BLOCK FOR AT&T TO  
 TERMINATE  
 4. CAT 5 CABLE SHALL RUN ALONG CABLE TRAY  
 AND BE CAPPED PROPERLY WITH THE WRAPS  
 BUT SUCH THAT BLAMP EDGES ARE POINTED  
 UPWARD AND CABLE SHALL BE PROTECTED  
 AGAINST ANY SURFACE TO HOLD IT IN PLACE

LEGEND:  
 \* DENOTES CONTRACTOR PUNCHDOWN  
 RESPONSIBILITY

① ALARM TERMINATION DIAGRAM  
 SCALE: NTS

AT&T  
 ALARM TERMINATION  
 DRAWING NUMBER  
 ILO9T2 - 13  
 REV 4

NO.	DATE	BY	CHK	SCALE	AS BOUND	APPRO BY THE
5	02/09/01			AS		
4	02/09/01			RT		
3	02/09/01			NO		
2	02/09/01			RC		
1	02/09/01			NO		
0	02/09/01			FINAL		
#	DATE			RS-232C		

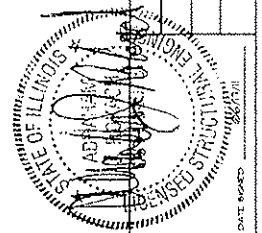
**AT&T**  
 530 NATIONAL PARKWAY  
 SCHLAUBURG, IL 60173

CPS TALCOTT  
 SITE NO: ILO9T2  
 1842 W. OHIO  
 CHICAGO, IL 60672

**Goodman Networks**  
 NETWORKS ENGINEERING CONSULTANTS  
 900 NATIONAL PARKWAY SUITE 202  
 SCHLAUBURG, IL 60173

**National Wireless**  
 SYSTEMS, INC.  
 1805 W. LAKES 600 435  
 JOLIET, ILLINOIS 61781  
 TEL: 815-933-5449  
 505 N. LAKE SHORE DR.  
 SUITE 501  
 CHICAGO, ILLINOIS 60611

**PETERSON ENGINEERING CONSULTANTS**  
 5600 W. BOSTON HALL AVE  
 CHICAGO, ILLINOIS 60629  
 ROOSEVELT ILLINOIS 60608  
 TEL: 847-732-0200  
 FAX: 847-732-0206  
 DESIGN FIRST NO. 194-0027-698



**SITE WORK GENERAL NOTES**

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO: A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWING AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHICH INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK. SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
6. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
7. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
8. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
9. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
10. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
11. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

1 DETAIL  
SCALE N.T.S.

**National Wireless**  
 Resources, LLC  
 1900 W. BOSTON INDIAN AVE  
 JOLIET, ILLINOIS 62658  
 TEL: 815-833-5448  
 505 N. LAKE SHORE DR.  
 SUITE 600  
 CHICAGO, ILLINOIS 60611

**GoodmanNetworks**  
INTERNATIONAL PARKWAY  
 900 NATIONAL PARKWAY, SUITE 300  
 SCHLAUBURG, IL 60173

**CP's TALCOTT**  
 SITE NO: IL0912  
 840 W. CHICAGO  
 CHICAGO, IL 60607

**AT&T**  
 95 NATIONAL PARKWAY  
 SUITE 300  
 SCHLAUBURG, IL 60173

3 NOT USED  
SCALE N.T.S.

2 NOT USED  
SCALE N.T.S.

**GENERAL NOTES:**

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY.  
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) OWNER - AT&T  
 OEM - ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITION AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWING. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR.  
 ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAUREL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.  
 DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.  
 UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FINISHING MATERIALS, EQUIPMENT, MAINTENANCE AND LABOR NECESSARY TO COMPLETE ALL INSTALLATION AS INDICATED ON THE DRAWINGS.
3. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.  
 THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.  
 IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
4. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND IT CABLES. GROUNDING CABLES AS SHOWN ON THE POWER GROUNDING AND TELCO PLAN DRAWINGS.  
 THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGES PART SHALL BE REPAIRED AT SUBCONTRACTORS EXPENSE TO SATISFACTION OF OWNER.
5. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIAL SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNERS DESIGNATED LOCATION.
6. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. CONSTRUCTION SHALL COMPLY WITH GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T GSM BIPOLAR.

4 DETAIL  
SCALE N.T.S.

**ADHAR ENGINEERING**  
 1101 N. LAKE SHORE DR.  
 SUITE 600  
 CHICAGO, IL 60611  
 DATE ISSUED: 11/09/12

5 DETAIL  
SCALE N.T.S.

**ABBREVIATIONS**

AOL ABOVE GRADE LEVEL  
 BTS BASE TRANSMISSION STATION  
 EXISTING  
 MIN/MAH NOT TO SCALE  
 REF REFERENCE  
 RF RADIO FREQUENCY  
 TO BE DETERMINED  
 TO BE RESOLVED  
 TYPICAL  
 REQ REQUIRED  
 EQUIPMENT GROUND RING  
 AMERICAN WIRE GAUGE  
 MASTER GROUND BARR  
 EQUIPMENT GROUND  
 BUS  
 BUS WITH OTHER WIRE  
 BASE INTEGRATED ACCESS DEVICE  
 GEN GENERATOR  
 IGR INTERIOR GROUND RING (HALO)  
 RBS RADIO BASE STATION

**SYMBOLS**

SOLID GROUND BUS BAR  
 SOLID NEUTRAL BUS BAR  
 SUPPLEMENTAL GROUND CONDUCTOR  
 SINGLE INSULATED-INSULATED  
 CIRCUIT BREAKER  
 SINGLE-POLE INERTIAL-MAGNETIC  
 CIRCUIT BREAKER  
 CHEMICAL GROUND ROD  
 GROUND ROD  
 DISCONNECT SWITCH  
 FETTER  
 EXOTHERMIC WELD (CADWELD)  
 UNLESS OTHERWISE NOTED  
 3/8" X 1/2" COPPER CLAD STEEL  
 GROUND ROD  
 1/2" X 1/2" COPPER CLAD STEEL  
 GROUND ROD  
 3/8" X 1/2" COPPER CLAD STEEL  
 GROUND ROD WITH INSPECTION BLEEVE  
 EXOTHERMIC WELD (CADWELD)  
 WITH INSPECTION BLEEVE  
 3/8" X 1/2" COPPER CLAD STEEL  
 GROUND ROD

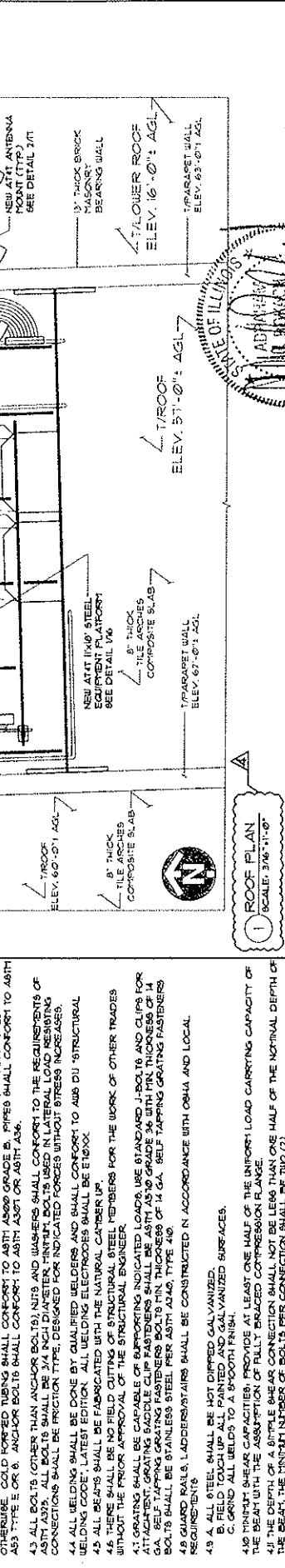
**STRUCTURAL NOTES**

- 10 APPLICABLE CODES  
 U DESIGN & CONSTRUCTION OF ALL WORK SHALL CONFORM TO THE FOLLOWING CODES  
 CHICAGO BUILDING CODE 2011 EDITION  
 AISC: ALLOWABLE STRESS DESIGN, 9TH EDITION  
 IBC/AIA-2012  
 ACI 318-11  
 ACI 308-11
- 20 DESIGN LOADS  
 21 ANTENNA SIZE: (SEE DWG. 01 FOR DETAILS)  
 22 DEAD LOAD, EQUIPMENT CABINETS: 10000 LB TOTAL  
 23 LIVE LOAD: PLATOFORMING: 800 PSF  
 FLOOR: 100 PSF  
 SNOW/GROUND LOAD: 15 PSF (HARBEST MILE)  
 WIND SPEED: 75 MPH (7/10)  
 WIND PRESSURE: 101'-0"1 AGL.
- 26 HEIGHT TO CENTER OF ANTENNA: 39'-0"1 AGL. (SECTOR 1 & 3)
- 30 GENERAL NOTES  
 31 STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK TO BE SHOWN TO THEIR SHOP DRAWINGS AND WORK. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW.  
 32 NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE CAPACITY OF THE LOAD SUPPORTED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE APPLIED.  
 33 THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR SHALL FURNISH CONNECTION BRACING AND/OR SUPPORTS REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR REQUIREMENTS.  
 34 DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS.  
 35 THE CONTRACTOR SHALL IN WRITING INFORM THE ENGINEER OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ENGINEER'S REVIEW OR APPROVAL. THE CONTRACTOR SHALL IN WRITING INFORM THE ENGINEER OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ENGINEER'S REVIEW OR APPROVAL.  
 36 ALL THINGS WHICH IN THE OPINION OF THE CONTRACTOR APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS AND AMBIGUITIES IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CONNECTED OR A WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ENGINEER BEFORE THE AFFECTED WORK PROCEEDS.
- 40 STRUCTURAL STEEL NOTES  
 41 ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", 1989 EDITION, THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION.  
 42 ALL STRUCTURAL STEEL PLATES, SHAPES AND BARS SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE. COLD FORMED TUBING SHALL CONFORM TO ASTM A500 GRADE B. PIPES SHALL CONFORM TO ASTM A53 TYPE E OR S. ANCHOR BOLTS SHALL CONFORM TO ASTM A307 OR ASTM A36.  
 43 ALL BOLTS (OTHER THAN ANCHOR BOLTS), NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. ALL BOLTS SHALL BE 3/4 INCH DIAMETER "HEX" BOLT WITH 3/16 INCH THICKNESS OF 14 GA. SELF TAPPING GRATING FASTENERS SHALL BE 1/4 INCH DIAMETER STEEL PER ASTM A193 TYPE A6.  
 44 ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO AISC D11 "STRUCTURAL WELDING CODE", LATEST EDITION. ALL WELDING ELECTRODES SHALL BE E70XX.  
 45 ALL BEAMS SHALL BE FABRICATED WITH THE NATURAL CORNER UP.  
 46 THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.  
 47 GRATING SHALL BE CAPABLE OF SUPPORTING INDICATED LOADS. USE STANDARD J-BOLTS AND CLIPS FOR ATTACHMENT. GRATING BACULIE CLIP FASTENERS SHALL BE ASTM A510 GRADE 36 WITH P/NK THICKNESS OF 14 BOLTS SHALL BE AT LEAST 1/2 INCH PER AISC A307 TYPE A6.  
 48 GUARD RAILS, LADDERS/STAIRS SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA AND LOCAL REQUIREMENTS.  
 49 A. ALL STEEL SHALL BE HOT DIPPED GALVANIZED.  
 B. FIELD TOUCH UP ALL PAINTED AND GALVANIZED SURFACES.  
 C. GRIND ALL WELDS TO A SMOOTH FINISH.  
 410 MINIMUM SHEAR CAPACITIES: PROVIDE AT LEAST ONE HALF OF THE UNIFORM LOAD CARRYING CAPACITY OF THE BEAM WITH THE ASSUMPTION OF FULLY BRACED COMPRESSION FLANGE.  
 411 THE DEPTH OF A SINGLE SHEAR CONNECTION SHALL NOT BE LESS THAN ONE HALF OF THE NOMINAL DEPTH OF THE BEAM. THE MINIMUM NUMBER OF BOLTS PER CONNECTION SHALL BE TWO (2).

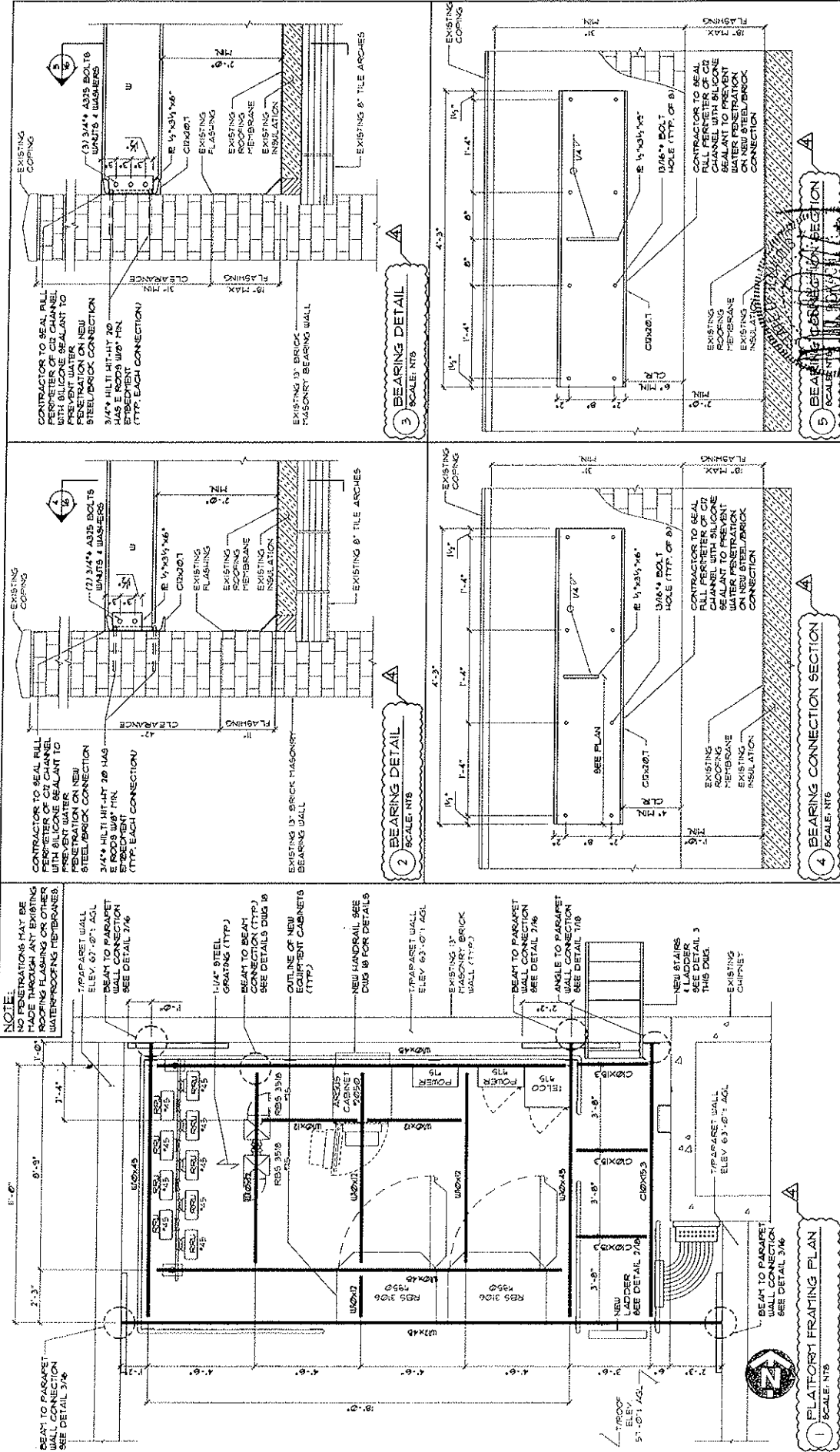
**STRUCTURAL NOTE:**  
 STRUCTURAL CALCULATION PREPARED BY FULLERTON ENGINEERING CONSULTANTS, INC. DATED JULY 19, 2011. CONTRACTOR TO VERIFY WITH AT&T PROJECT MANAGER TO OBTAIN A COPY.

**EXISTING STRUCTURAL DATA:**  
 FULLERTON ENGINEERING CONSULTANTS REQUESTED ORIGINAL STRUCTURAL DRAWINGS FOR THIS EXISTING BUILDING. HOWEVER, DRAWINGS WERE NOT AVAILABLE AT THE TIME OF ENGINEERING DESIGN FOR THIS REASON. FULLERTON ENGINEERING OBTAINED FIELD MEASUREMENTS OF THE EXISTING STRUCTURE IN THE AREAS AFFECTED BY THIS WORK. FULLERTON PERFORMED A FIELD EXAMINATION ON MARCH 23RD, 2012, 2012, OF THE AFFECTED STRUCTURAL ELEMENTS, AND THEY WERE FOUND TO BE IN SATISFACTORY CONDITION. REF. FIELD INVESTIGATION REPORT PREPARED BY FULLERTON ENGINEERING.

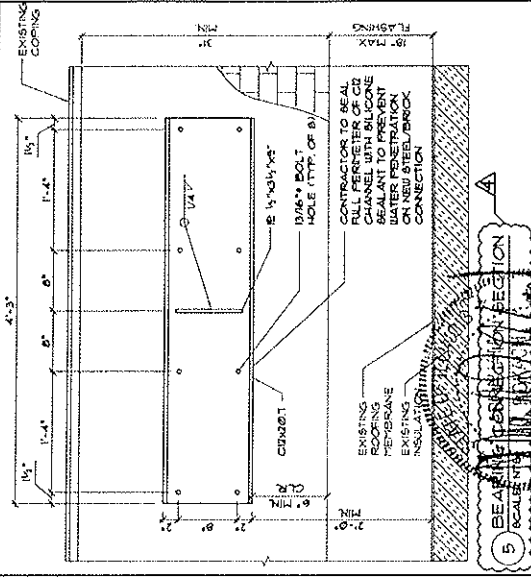
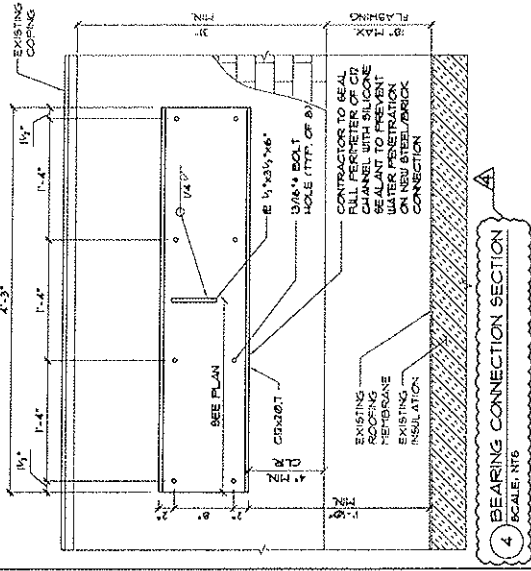
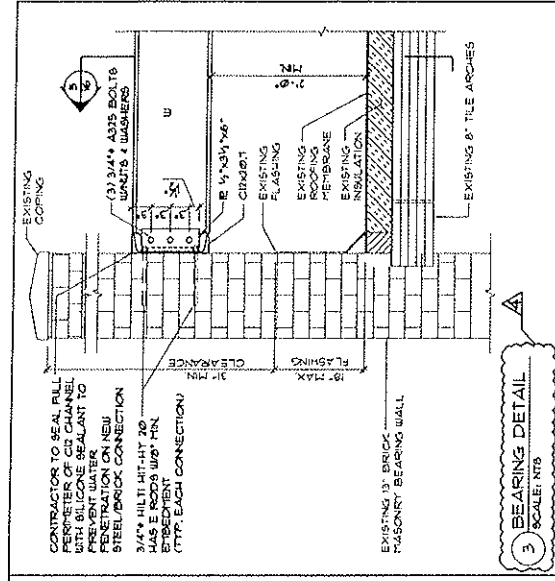
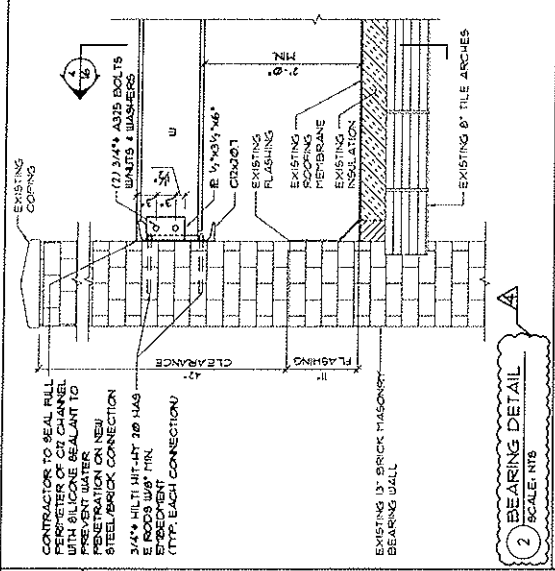
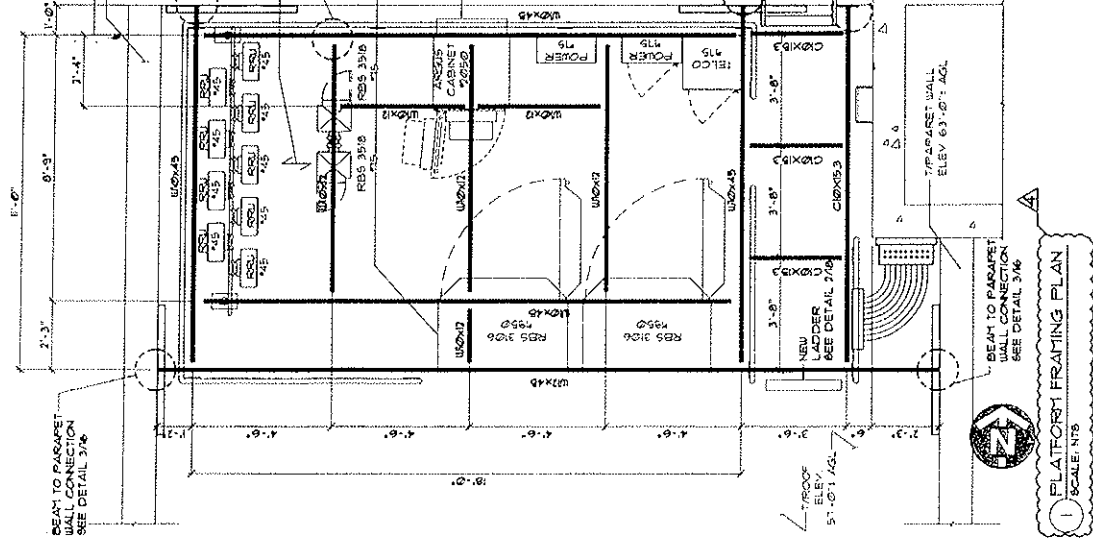
**BUILT-UP ROOFING:**  
 GENERAL: FURNISH AND INSTALL NECESSARY MEMBRANE AND FLASHING MATERIALS COMPATIBLE WITH EXISTING ROOFING SYSTEM TO PROPERLY SEAL AND FLASH ROOF ROOFING SYSTEMS. VERIFY WITH BUILDING MANAGEMENT IF EXISTING ROOF HAS A MANUFACTURER'S WARRANTY IN EFFECT. IF SO, CONTACT MANUFACTURER FOR A LIST OF APPROVED ROOFING SUPPLIERS WHO MAY PERFORM WORK AND MAINTAIN WARRANTY. USE ONLY APPROVED ROOFING CONTRACTORS IN ORDER TO MAINTAIN WARRANTY. CONTRACTOR TO MEET OR EXCEED EXISTING ROOF SYSTEM REQUIREMENTS FOR ROOF PENETRATION.



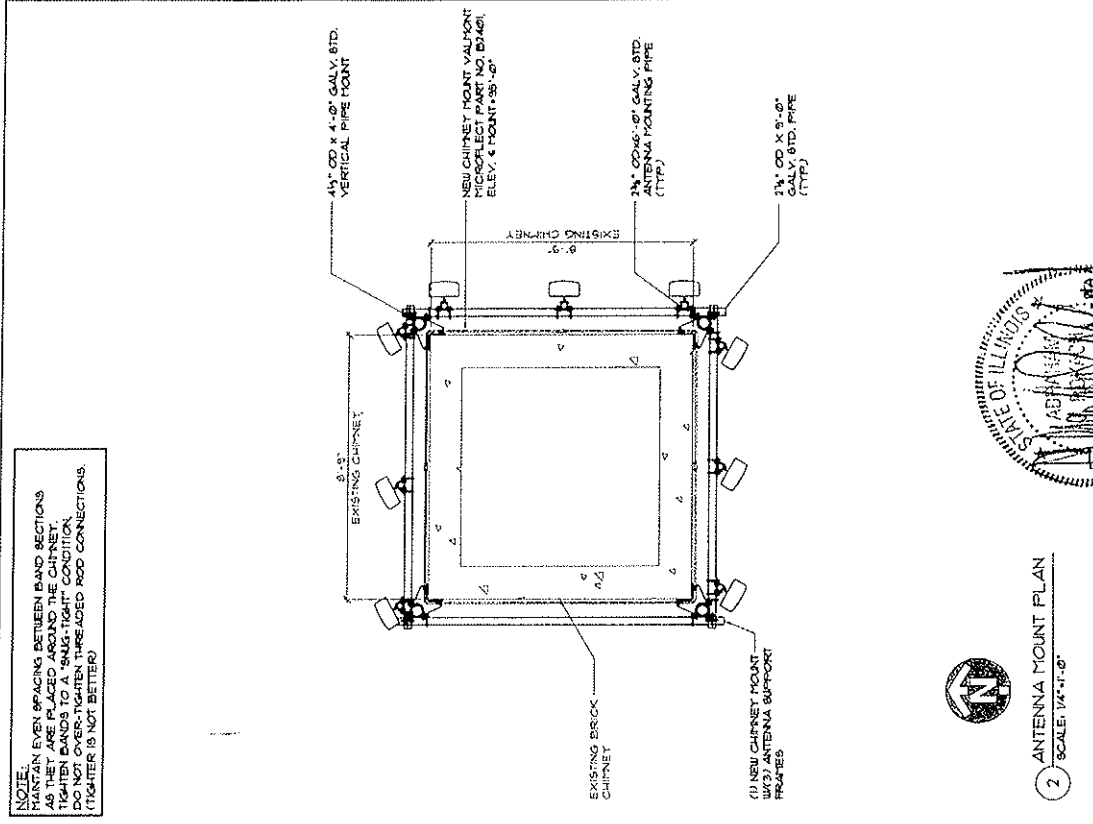
<p><b>AT&amp;T</b>                  930 NATIONAL PARKWAY                  4TH FLOOR                  SCHWAUBURG, IL 60472</p>			<p><b>CP'S TALCOTT</b>                  SITE NO: IL0912                  840 W OHIO                  CHICAGO, IL 60672</p>																																																																																																																																																											
<p><b>GoodmanNetworks</b>                  930 NATIONAL PARKWAY SUITE 300                  SCHWAUBURG, IL 60472</p>			<p><b>National Wireless</b>                  Wireless, LLC                  1025 W. AGNES RD                  JOLIET, IL 60435                  TEL: 815-733-8449                  505 N. LAKE SHORE DR.                  SUITE 507                  CHICAGO, ILLINOIS 60656</p>																																																																																																																																																											
<p><b>Fullerton Engineering Consultants</b>                  9620 W. BRYAN PARK AVE                  ROSELAND, IL 60468                  TEL: 847-732-0700                  FAX: 847-732-0226                  DESIGN BUREAU: 847-007459</p>			<p><b>Professional Engineer</b>                  STATE OF ILLINOIS                  LICENSE NO. 04210110                  DATE ISSUED: 06/21/11</p>																																																																																																																																																											
<p><b>REVISIONS</b></p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>07/19/11</td> <td>ISSUE</td> </tr> <tr> <td>2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> </tr> <tr> <td>12</td> <td></td> <td></td> </tr> <tr> <td>13</td> <td></td> <td></td> </tr> <tr> <td>14</td> <td></td> <td></td> </tr> <tr> <td>15</td> <td></td> <td></td> </tr> <tr> <td>16</td> <td></td> <td></td> </tr> <tr> <td>17</td> <td></td> <td></td> </tr> <tr> <td>18</td> <td></td> <td></td> </tr> <tr> <td>19</td> <td></td> <td></td> </tr> <tr> <td>20</td> <td></td> <td></td> </tr> <tr> <td>21</td> <td></td> <td></td> </tr> <tr> <td>22</td> <td></td> <td></td> </tr> <tr> <td>23</td> <td></td> <td></td> </tr> <tr> <td>24</td> <td></td> <td></td> </tr> <tr> <td>25</td> <td></td> <td></td> </tr> <tr> <td>26</td> <td></td> <td></td> </tr> <tr> <td>27</td> <td></td> <td></td> </tr> <tr> <td>28</td> <td></td> <td></td> </tr> <tr> <td>29</td> <td></td> <td></td> </tr> <tr> <td>30</td> <td></td> <td></td> </tr> <tr> <td>31</td> <td></td> <td></td> </tr> <tr> <td>32</td> <td></td> <td></td> </tr> <tr> <td>33</td> <td></td> <td></td> </tr> <tr> <td>34</td> <td></td> <td></td> </tr> <tr> <td>35</td> <td></td> <td></td> </tr> <tr> <td>36</td> <td></td> <td></td> </tr> <tr> <td>37</td> <td></td> <td></td> </tr> <tr> <td>38</td> <td></td> <td></td> </tr> <tr> <td>39</td> <td></td> <td></td> </tr> <tr> <td>40</td> <td></td> <td></td> </tr> <tr> <td>41</td> <td></td> <td></td> </tr> <tr> <td>42</td> <td></td> <td></td> </tr> <tr> <td>43</td> <td></td> <td></td> </tr> <tr> <td>44</td> <td></td> <td></td> </tr> <tr> <td>45</td> <td></td> <td></td> </tr> <tr> <td>46</td> <td></td> <td></td> </tr> <tr> <td>47</td> <td></td> <td></td> </tr> <tr> <td>48</td> <td></td> <td></td> </tr> <tr> <td>49</td> <td></td> <td></td> </tr> <tr> <td>50</td> <td></td> <td></td> </tr> </tbody> </table>			NO.	DATE	REVISION	1	07/19/11	ISSUE	2			3			4			5			6			7			8			9			10			11			12			13			14			15			16			17			18			19			20			21			22			23			24			25			26			27			28			29			30			31			32			33			34			35			36			37			38			39			40			41			42			43			44			45			46			47			48			49			50			<p><b>AT&amp;T</b>                  ROOF PLAN &amp; STRUCTURAL NOTES                  DRAWING NUMBER: IL0912-15                  DATE: 07/19/11</p>		
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**NOTE:**  
NO PENETRATIONS MAY BE MADE THROUGH ANY EXISTING ROOFING FLASHING OR OTHER WATERPROOFING MEMBRANES.



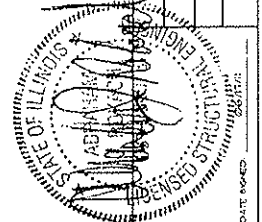
<p><b>GoodmanNetworks</b> 900 NATIONAL PARKWAY SUITE 310 SCHAMBERG, IL 60173</p>		<p><b>AT&amp;T</b> 930 NATIONAL PARKWAY 4TH FLOOR SCHAMBERG, IL 60173</p>		<p><b>CPS TALCOTT</b> SITE NO: IL0912 1849 W OHIO CHICAGO, IL 60621</p>	
<p><b>National Wireless</b> Wireless, LLC 1902 W ACRES RD JOLIET, ILLINOIS 60435 TEL: 815-745-8400 905 N LAKE ST SUITE 500 CHICAGO, ILLINOIS 60611</p>		<p><b>AT&amp;T</b> FLATIRON FRAMING PLAN - DETAILS</p>		<p>DATE: 08/11/09 SCALE: AS SHOWN</p>	
<p>DESIGN: 841-331-0206 FAX: 841-331-0206 SITE 500 SALE 500 CHICAGO, ILLINOIS 60611</p>		<p>DATE: 08/11/09 SCALE: AS SHOWN</p>		<p>DATE: 08/11/09 SCALE: AS SHOWN</p>	
<p>DESIGN: 841-331-0206 FAX: 841-331-0206 SITE 500 SALE 500 CHICAGO, ILLINOIS 60611</p>		<p>DATE: 08/11/09 SCALE: AS SHOWN</p>		<p>DATE: 08/11/09 SCALE: AS SHOWN</p>	



**NOTE:**  
 IN EVERY BRACING BETWEEN BAND SECTIONS AS THEY ARE PLACED IN THE BANDS. TIGHTEN BANDS TO A "SNUG TIGHT" CONDITION. DO NOT OVER-TIGHTEN THREADED ROD CONNECTIONS. (TIGHTER IS NOT BETTER)

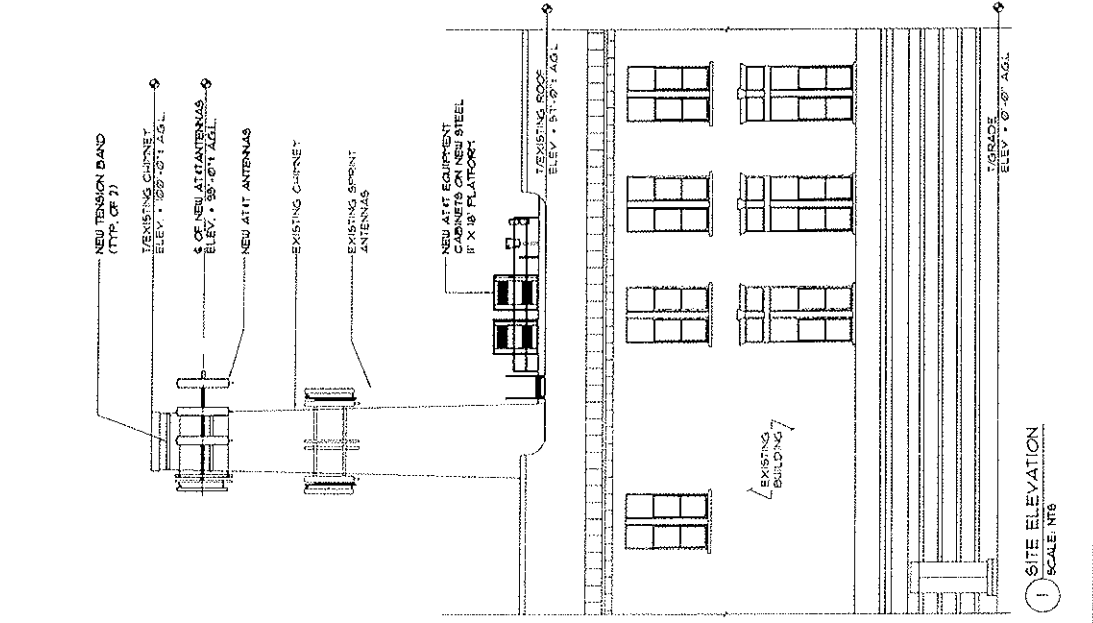
2 ANTENNA MOUNT PLAN  
 SCALE: 1/4" = 1'-0"

AT&T	
ANTENNA MOUNTING & DETAILS	
REV	DESCRIPTION
4	IL0972-17



1	10/05/11	CPS CORRECTS	AS
2	10/15/11	CPS CORRECTS	AS
3	10/20/11	CPS CORRECTS	AS
4	11/01/11	CPS CORRECTS	AS
5	11/22/11	CPS CORRECTS	AS
6	12/02/11	CPS CORRECTS	AS
7	12/02/11	FINAL	AS
8	DATE	REVISED	BY
9	DATE	REVISED	BY
10	DATE	REVISED	BY

**NOTES:**  
 1) CONTRACTOR TO REFER TO "INSPECTION REPORT FOR 169'-0" SQUARE BRICK CHIMNEY, AT&T SITE NUMBER IL0972, SITE NAME CPS TOWER, 1640 W. BRUSH AVE, CHICAGO, IL, DATED MAY 17TH, 2010, PREPARED BY BEDNASH CONSULTING, INC.  
 2) "INSPECTION REPORT FOR 169'-0" SQUARE BRICK CHIMNEY, AT&T SITE NUMBER IL0972, SITE NAME CPS TOWER, 1640 W. BRUSH AVE, CHICAGO, IL, DATED MAY 17TH, 2010, PREPARED BY BEDNASH CONSULTING, INC.  
 3) CHIMNEY CONTRACTOR TO IMPLEMENT ALL REQUIRED CHIMNEY REPAIRS BEFORE ANY INSTALLATION OF CELLULAR ANTENNAS.  
 1) REPAIR THE CRACKS IN UPPER 10' OF ALL WALLS. THE OPEN DIAGONAL AND HORIZONTAL CRACKS IN THE UPPER ELEVATIONS SHOULD BE CUT OUT TO A MINIMUM OF 1/2" DEPTH AND REPAIRED WITH MORTAR. JOINTS SHOULD BE FLUSHED WITH WATER OR COMPRESSED AIR PRIOR TO INSTALLATION OF NEW COLORED MORTAR. MORTAR USED TO REPAIR JOINTS SHALL BE ASTM C270, TYPE N MORTAR.  
 2) INSTALL TWO EXTERIOR TENSION BANDS IN THE UPPER 10' OF THE EXTERIOR TENSION BANDS. USE BY 3/8" THICK A36 STEEL BOLTED CONNECTIONS. BANDS BE ADDED IN THE UPPER 10' OF THE CHIMNEY. THE BANDS SHOULD BE LOCATED 7' AND 1' FROM THE TOP, RESPECTIVELY. SILICONE CAULKING SHOULD ALSO BE APPLIED TO THE TOP OF THE BAND TO PREVENT WATER FROM ACCUMULATING AND FREEZING BETWEEN THE BAND AND BRICK WALL.  
 3) GRANITE THE INTERIOR OF THE UPPER STRUCTURAL WALL. INSTALL A 1/4" THICK FLASH-COAT LATER OF GRANITE (CALCULATED ALTERNATE LATER OF THE UPPER 10' OF THE CHIMNEY) ABOVE THE INTERIOR ALL REPAIRED MORTAR JOINTS SHOULD BE BUILT UP WITH GRANITE. GRANITE SHOULD BE 2" THICK BRICK FACES BUILT OUT PRIOR TO THE FLASH-COAT THICKNESS BEING INSTALLED. THE INTERIOR SHOULD BE SANDBLASTED PRIOR TO INSTALLING THE GRANITE.  
 FOR ADDITIONAL RECOMMENDATIONS, REFER TO THE EXISTING SURVEILLANCE OF THE CHIMNEY. SEE CHIMNEY RECORDS.



1 SITE ELEVATION  
 SCALE: NTS

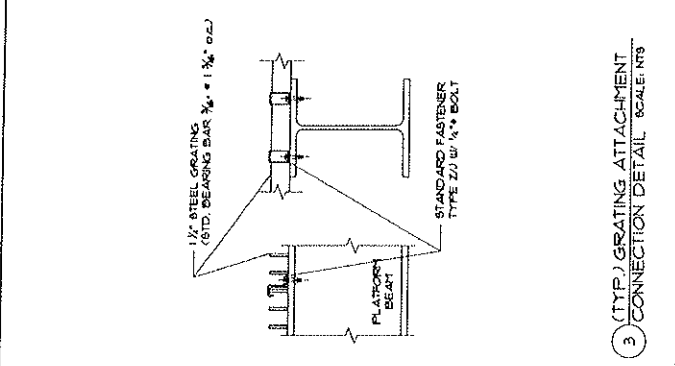
**AT&T**  
 930 NATIONAL PARKWAY  
 45 FLOOR  
 SCHLAUBURG, IL 60173

**CPS TALCOTT**  
 SITE NO: IL0972  
 1640 W BRUSH  
 CHICAGO, IL 60617

**National Wireless Ventures, LLC**  
 1800 W ACRES RD.  
 JOLIET, ILLINOIS 60438  
 815-741-1400  
 909 W LAKE SHORE DR.  
 SUITE 301  
 CHICAGO, ILLINOIS 60611

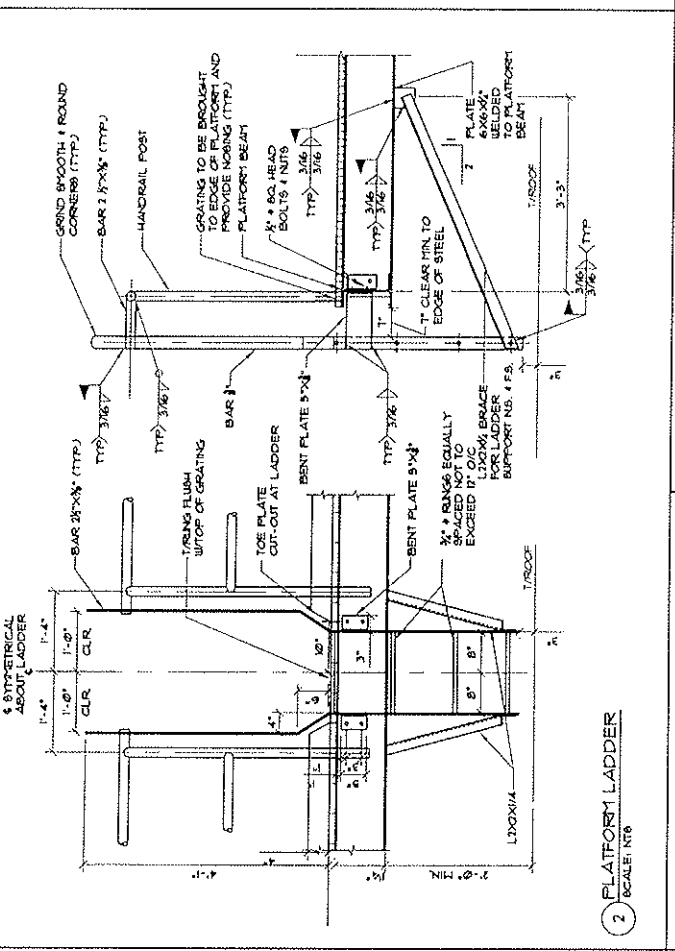
**GoodmanNetworks**  
 930 NATIONAL PARKWAY, SUITE 100  
 SCHLAUBURG, IL 60173

**Fullerton Engineering Consultants**  
 9600 W BRUSH AVE  
 SUITE 200  
 ROSEMONT, ILLINOIS 60018  
 TEL: 630-581-3326  
 FAX: 630-581-3326  
 DESIGN FIRM NO: 184-002-498

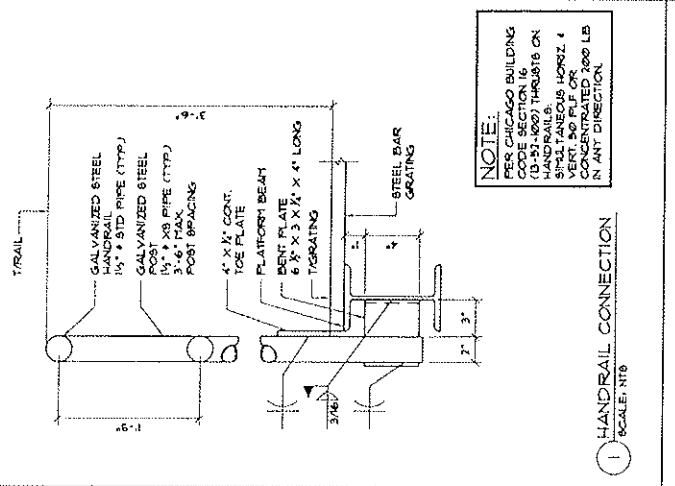


1 HANDRAIL CONNECTION  
SCALE: NTS

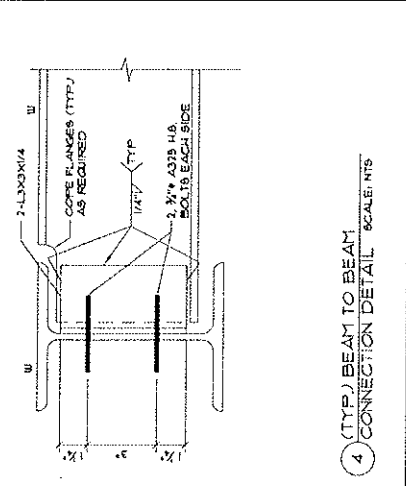
**NOTE:**  
PER CHICAGO BUILDING CODE SECTION 16 (13-51.600) THURSTON ON HANDRAILS. ALL HANDRAILS VERT. AND HORZ. CONCENTRATED 2000 LB. IN ANY DIRECTION.



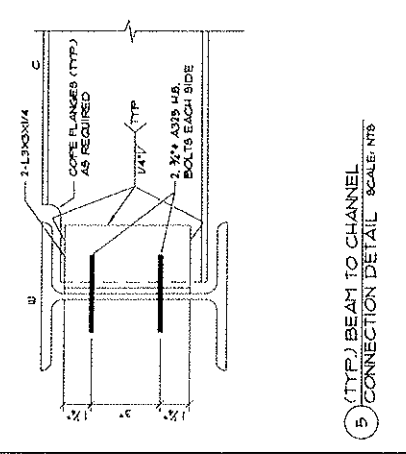
2 PLATFORM LADDER  
SCALE: NTS



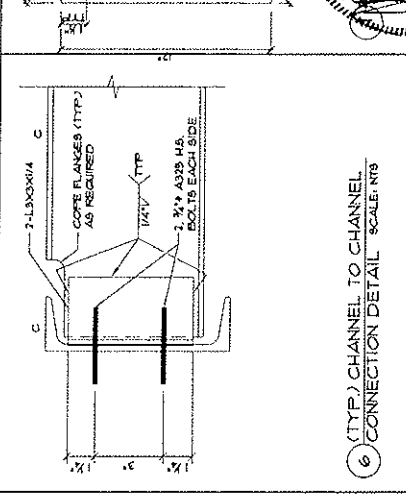
3 (TYP.) GRATING ATTACHMENT  
SCALE: NTS



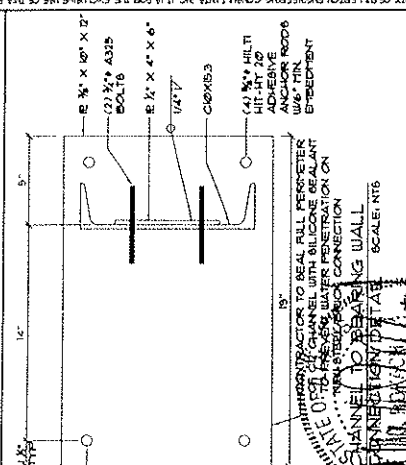
4 (TYP.) BEAM TO BEAM  
CONNECTION DETAIL SCALE: NTS




5 (TYP.) BEAM TO CHANNEL  
CONNECTION DETAIL SCALE: NTS




6 (TYP.) CHANNEL TO CHANNEL  
CONNECTION DETAIL SCALE: NTS




7 (TYP.) CHANNEL TO BEARING WALL  
CONNECTION DETAIL SCALE: NTS




**National Wireless**  
Wireless LLC  
1020 W. ACRES RD.  
JOLIET, ILLINOIS 62435  
TEL: 815-731-5148  
525 N. LAKE SHORE DR.  
JOLIET, ILLINOIS 62435  
DESIGN: P/ST/NO. 34-001-138



**Goodman Networks**  
www.goodman-networks.com  
900 NATIONAL PARKWAY, SUITE 100  
SCHMUNBERG, ILLINOIS 60173



**CPS TALCOTT**  
SITE NO: IL0912  
1849 W. CHICAGO  
CHICAGO, ILL. 60632



530 NATIONAL PARKWAY  
SCHMUNBERG, ILLINOIS 60173

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SCALE: AS SHOWN    APPROVED BY: *[Signature]*

AT&T

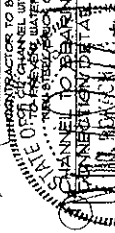
STRUCTURAL DETAIL 9

DRAWING NUMBER

REV

IL0912-18

4



CONTRACTOR TO SEAL FULL PERPECTER  
CHANNEL TO BEARING WALL  
CONNECTION DETAIL SCALE: NTS

CONTRACTOR TO SEAL FULL PERPECTER  
BEARING WALL TO PLATFORM LADDER  
CONNECTION DETAIL SCALE: NTS

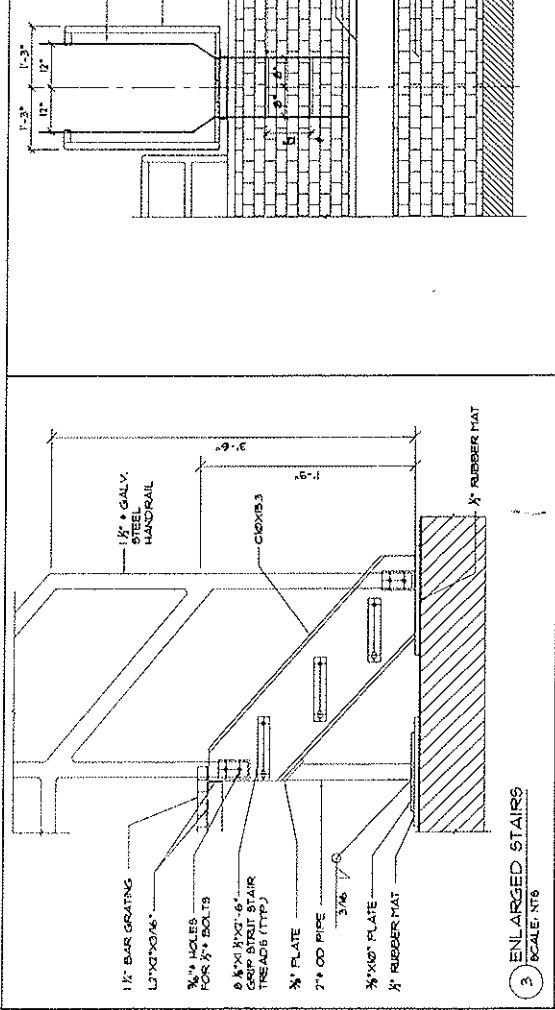
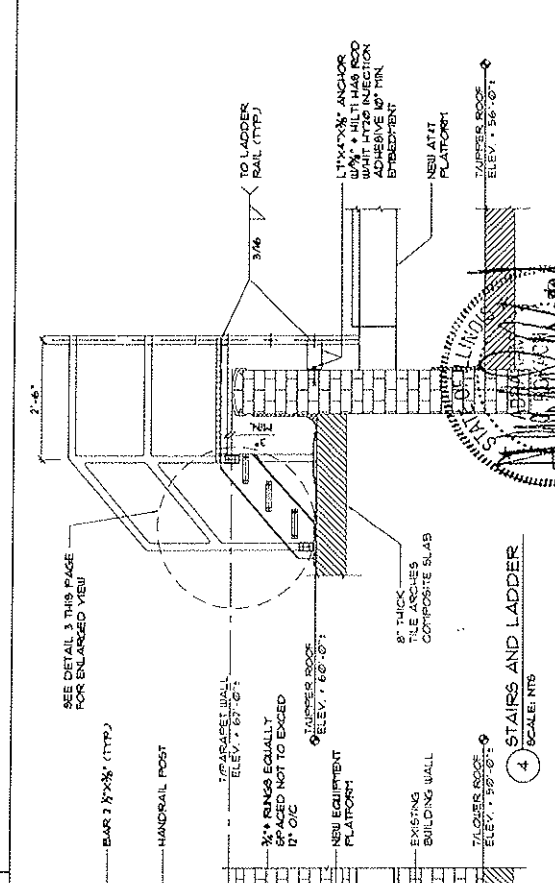
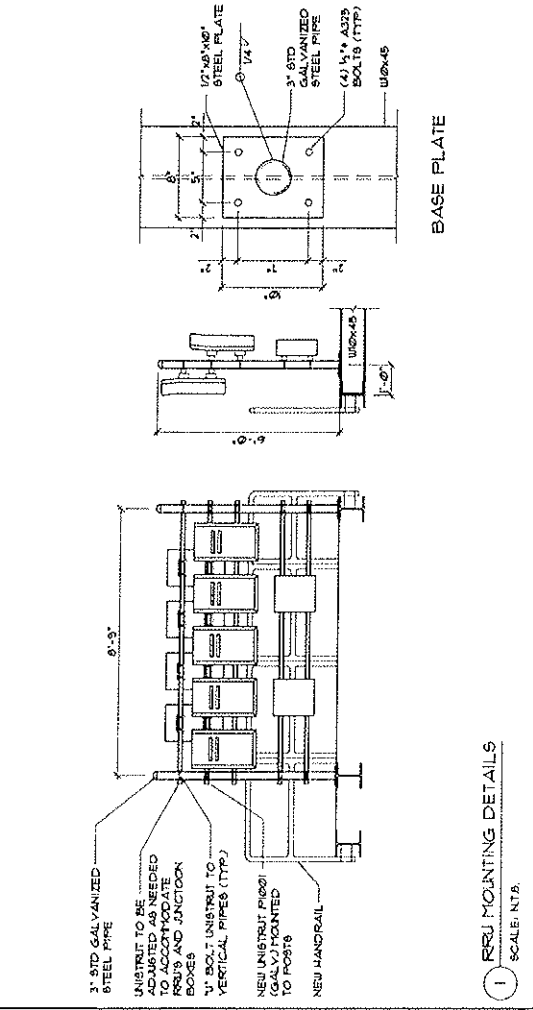
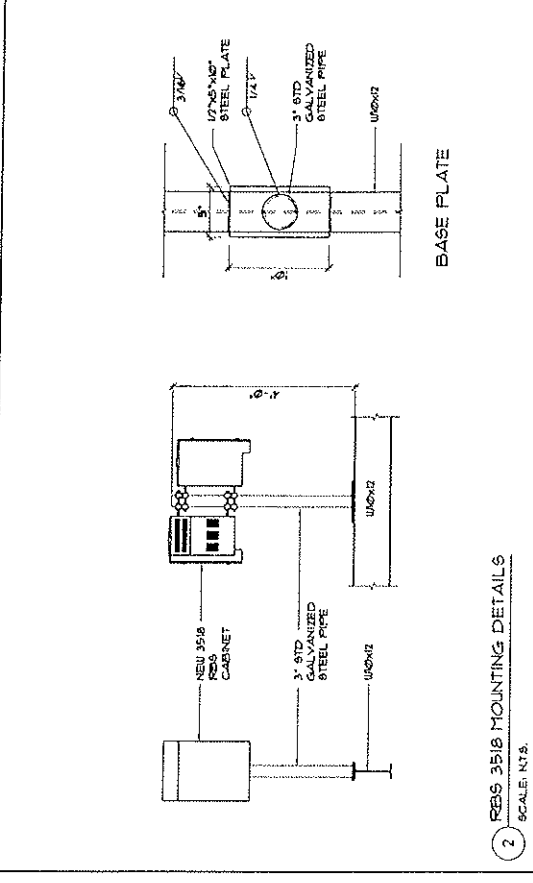
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PLATFORM LADDER TO PLATFORM LADDER  
CONNECTION DETAIL SCALE: NTS

CONTRACTOR TO SEAL FULL PERPECTER  
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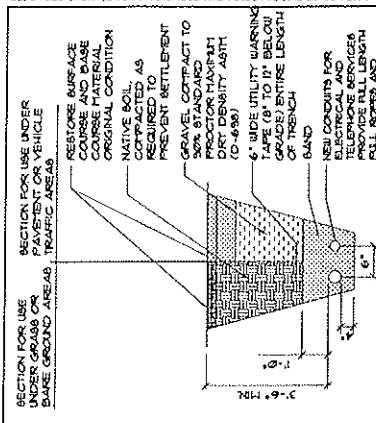
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CONTRACTOR TO SEAL FULL PERPECTER  
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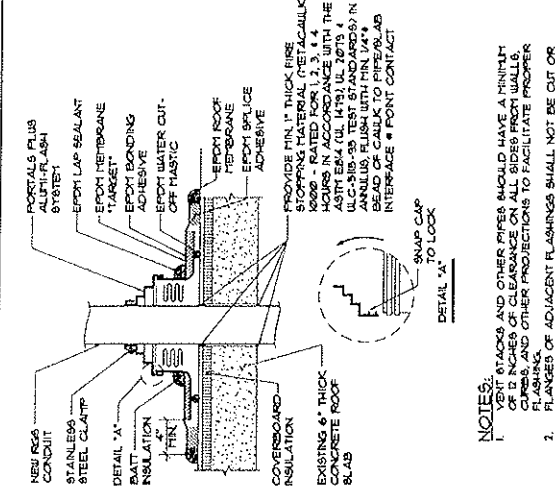
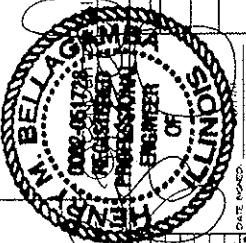
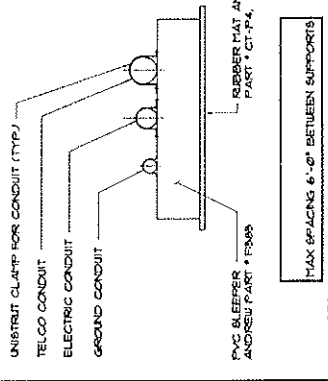


 National Wireless, LLC 1000 W. AGNES RD SUITE 1000 ROSEMOUNT, IL 60018 TEL: 847-730-6209 FAX: 847-730-6206 CHICAGO, ILLINOIS 60018		 GoodmanNetworks 900 NATIONAL PARKWAY, SUITE 100 SCHMALVURB, IL 60173		 CPS TALCOTT SITE NO: IL0912 1840 W CHICAGO CHICAGO, IL 60677		 AT&T 998 NATIONAL PARKWAY 401 FLOOR SCHMALVURB, IL 60173 SCALE: AS SHOWN APPROV. DATE:		DATE:	
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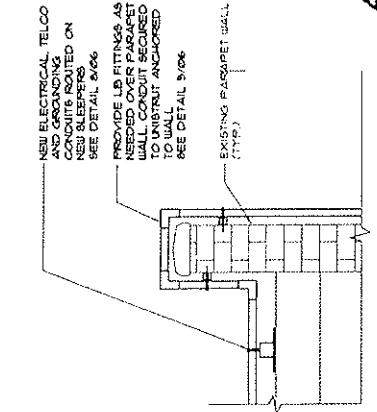
- NOTES:**
- CONTRACTOR TO VERIFY LOCAL UTILITY REQUIREMENTS FOR DEPTH, SIZE & SEPARATION OF CONDUITS PRIOR TO TRENCHING. CONTACT THE PUBLIC UTILITIES DEPARTMENT IMMEDIATELY IN THE EVENT OF AN UNEXPECTED UTILITY.
  - CONTRACTOR TO CALL DIGGER (312) 744-7000 48 HRS PRIOR TO EXCAVATING FOR UNDERGROUND UTILITY LOCATIONS. LOCATION BOUNDING EXCAVATION AREA MUST BE PRIVATELY LOCATED FOR NON-PUBLIC UTILITIES.

2 TRENCH DETAIL SCALE: 1/8"

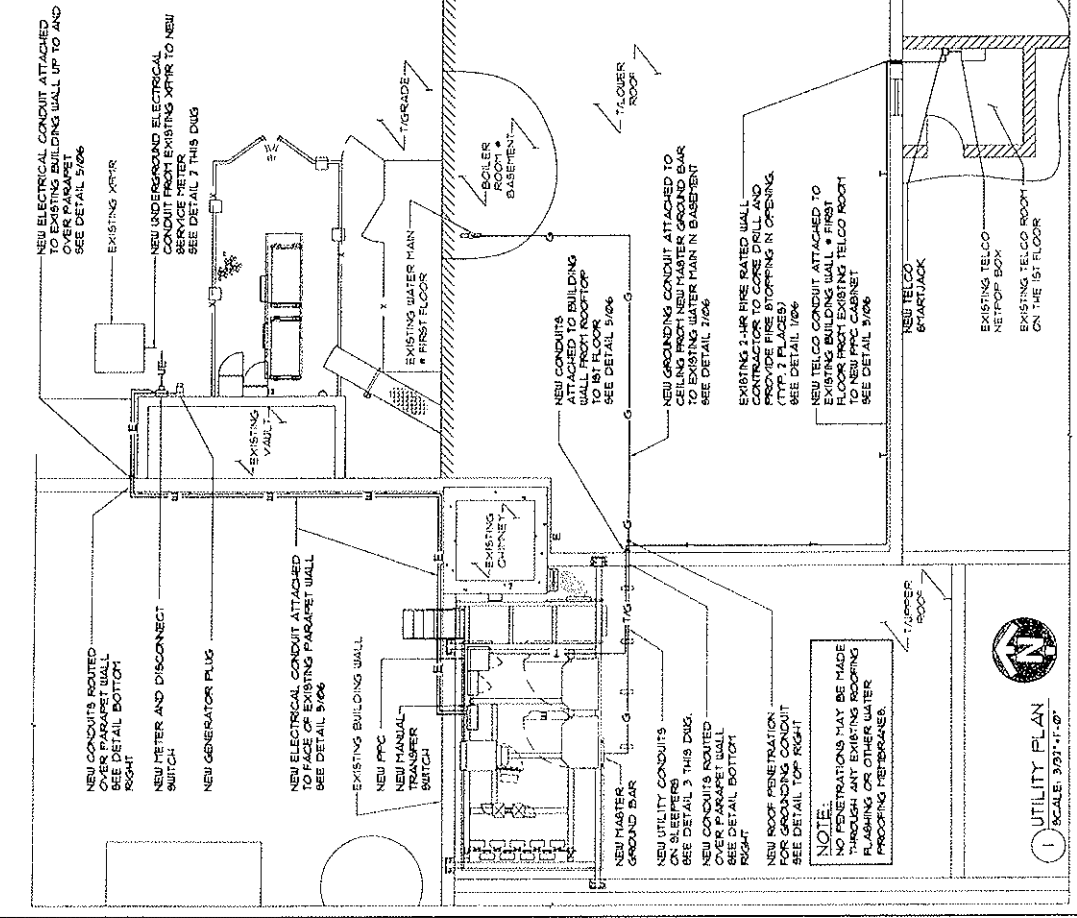


- NOTES:**
- ALL STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 3 INCHES OF CLEARANCE ON ALL SIDES FROM WALL CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
  - ADJACENT FLASHINGS SHALL NOT BE CUT OR OVERLAPPED.

CONDUIT PENETRATION AT ROOF



CONDUIT AT PARAPET WALL



REV	DRAWING NUMBER	DATE
4	IL0912-19	DATE MOVED

DATE	BY	CHK	REVISED BY	DATE
11/03/10	AW			
11/03/10	AW			
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AT&T  
930 NATIONAL PARKWAY  
SCHLAUBURG, IL 60133

CP&S TALCOTT  
SITE NO: IL0912  
1840 W OHIO  
CHICAGO, IL 60647

GoodmanNetworks  
900 NATIONAL PARKWAY, SUITE 100  
SCHLAUBURG, IL 60133

National Wireless  
10500 W. JACKSON RD.  
JOLIET, IL 61731  
TEL: 815-933-5449  
5625 N. LAKE SHORE DR.  
SUITE 501  
CHICAGO, ILLINOIS 60641



**ELECTRICAL INSTALLATION NOTES:**

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND CEC, 2018 EDITION.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTORS SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-RATTLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER PHASE CONDUCTOR (I.E. NOTER), GROUNDING, AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3/4" BROAD 10" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION OR EQUAL.) THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC 4 081A.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E. PANELBOARD AND CIRCUIT ID B).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- ALL TIE BREAKS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL. TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (14 AWG OR LARGER), 600 V, OIL RESISTANT THAN 01 THUN-1, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION. LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (16 AWG OR LARGER) 600 V, OIL RESISTANT THAN 01 THUN-1 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION. LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR TYPE TC CABLE (14 AWG OR LARGER), 600 V, OIL RESISTANT THAN 01 THUN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WRENCHES BY THOMAS AND BETTS (OR EQUAL) LUGS AND WRENCHES SHALL BE RATED FOR OPERATION AT NO LESS THAN 15°C (59°F IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA UL, ANS/IEEE, AND NEC. ELECTRICAL METALLIC TUBING (EMT) OR RIGID PVC SCHEDULE 80 FOR (I.E. RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NON-METALLIC TUBING (ENT), OR RIGID NON-METALLIC CONDUIT (RIGID PVC SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NON-METALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURRED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREA OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIFT-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTING SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTING ARE NOT ACCEPTABLE.
- CABINETS, BOXES, AND WIRWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/IEEE, AND NEC. WIRWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A Hinged COVER, DESIGNED TO swing OPEN DOWNWARD. SHALL BE PANDUIT TYPE E (OR EQUAL) AND RATED NEMA 1 (OR BETTER).
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 56, AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED EPOXY-COATED, OR NON-CORRODING, SHALL MEET OR EXCEED UL 544, AND NEMA OS 1, AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (IP OR BETTER) OUTDOORS.
- NON-METALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2, AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (IP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFE GUARD AGAINST LIFE AND PROPERTY.

**National Wireless**  
Wireless  
1800 W. JACOBS RD.  
JOLIET, ILLINOIS 62433  
TEL: 815-733-9999  
505 N. STATE ST.  
SUITE 502  
CHICAGO, ILLINOIS 60611

**GoodmanNetworks**  
www.goodman-networks.com  
900 NATIONAL PARKWAY, SUITE 130  
SCHUMBURG, IL 60193

**AT&T**  
333 NATIONAL PARKWAY  
4TH FLOOR  
SCHUMBURG, IL 60173

**CPS TALCOTT**  
SITE NO: IL0912  
1940 W OHIO  
CHICAGO, IL 60617

**W. BELLAGUARDI**  
REGISTERED PROFESSIONAL ENGINEER  
OF ILLINOIS  
0082-051728

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DRAWING NUMBER: IL0912-21  
KEY: 4



**GROUNDING NOTES:**

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER) SHALL BE BONDED TOGETHER BELOW GRADE BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE CIRC. 2000 EDITION. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OR-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1000 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY REQUESTING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT. PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED COUPLING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE. APPROVED GROUNDING TYPE CONDUIT CLAMPERS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO ITS EQUIPMENT.
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS, #4 AWG STRANDED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #6 AWG SOLID TINED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORGED USING HIGH PRESSURE CRIMPERS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- APPROVED ANTI-OXIDANT COATINGS (IE. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS. NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G. NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

**GROUNDING NOTES**  
SCALE: NTS

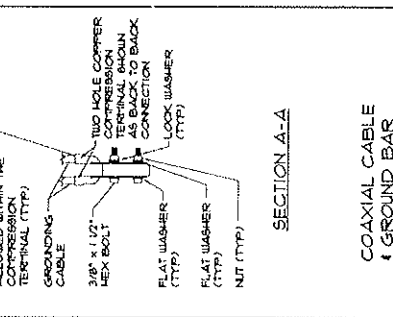
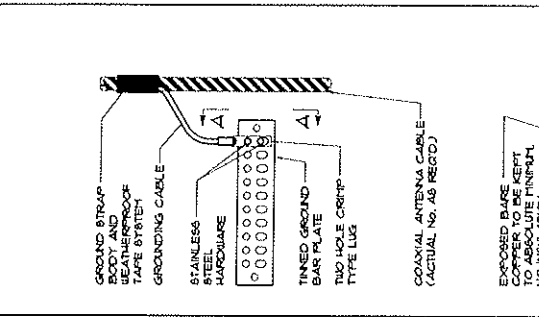
**National Wireless**  
Wentworth LLC  
1000 W. ACRES RD  
JOLIET, ILLINOIS 62438  
TEL: 815-933-5446  
905 N. STATE ST. 4TH FL. DR.  
CHICAGO, ILLINOIS 60611

**GoodmanNetworks**  
900 NATIONAL PARKWAY, SUITE 320  
SCHMUNBERG, IL 60173

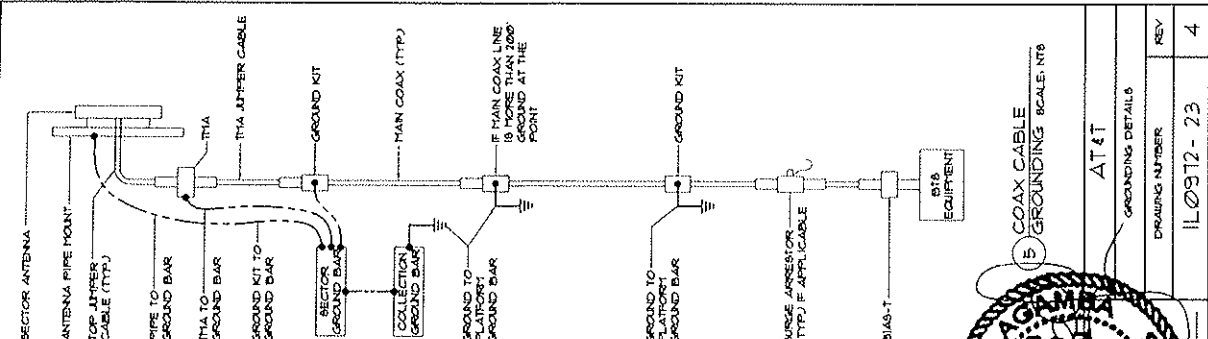
**CP6 TALCOTT**  
SITE NO: IL0912  
940 W. OHIO  
CHICAGO, IL 60672

**AT&T**  
830 NATIONAL PARKWAY  
48 FLOOR  
SCHMUNBERG, IL 60173

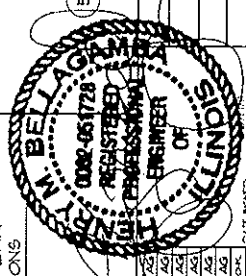
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16	REVISED	09/20/00
17	REVISED	09/20/00
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46	REVISED	09/20/00
47	REVISED	09/20/00
48	REVISED	09/20/00
49	REVISED	09/20/00
50	REVISED	09/20/00



**SECTION A-A**  
COAXIAL CABLE  
GROUND BAR  
CONNECTIONS  
SCALE: NTS



**GROUNDING DETAILS**  
DRAWING NUMBER: IL0912-23  
REV: 4  
SCALE: 1/8" = 1'-0"





**AT&T**

930 NATIONAL PARKWAY  
SCHAMBERG, IL 60173



Pullman Engineering, Overland Park  
9600 W. BRYN MAWR, SUITE 200  
ROSEMONT, ILLINOIS 60018  
TEL: 817-292-0200  
FAX: 817-292-0205

1	5/10/10	PRELIMINARY
2	9/28/10	SITE SURVEY

**LANDMARK**

1840 N. OHIO STREET  
PALOS HILLS, ILLINOIS 60465  
Phone: (708) 266-3737  
PROJECT No. 10-04-012

**AT&T IL 0972**

**CPS TALCOTT**  
1840 N. OHIO STREET  
CHICAGO, ILLINOIS  
COOK COUNTY

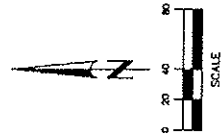
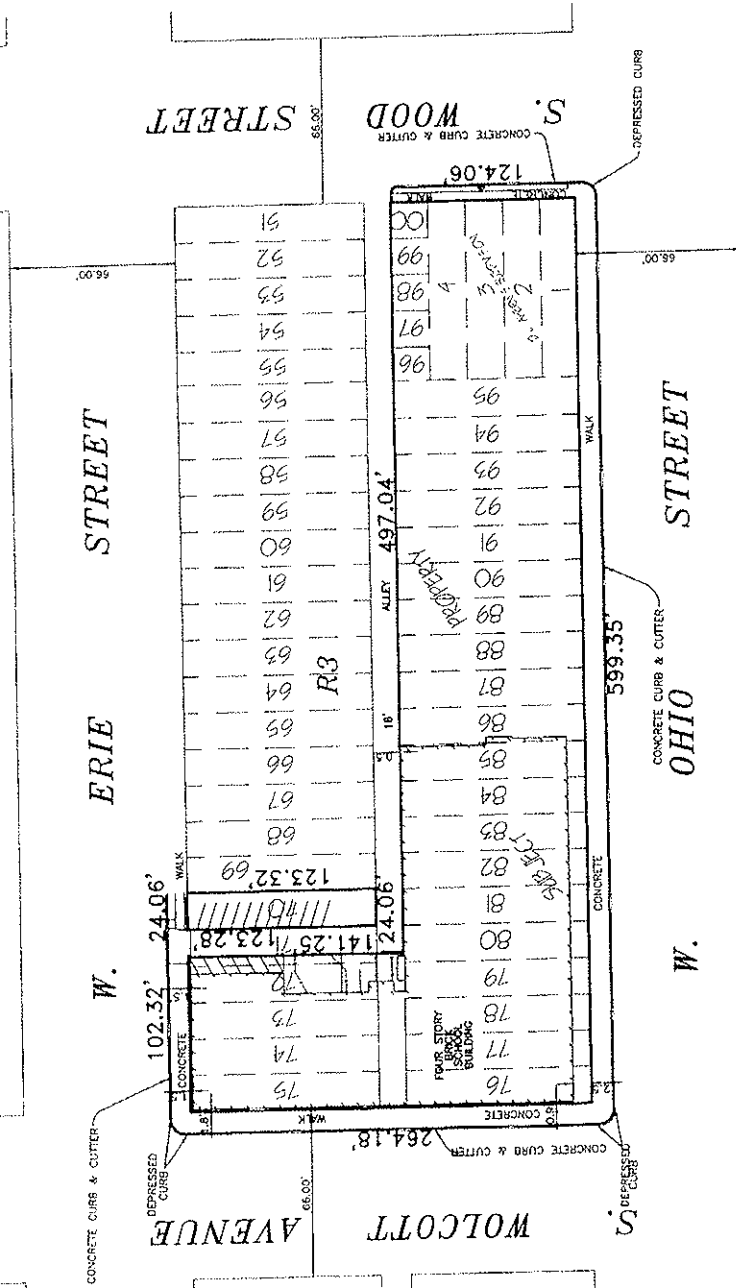
**SITE SURVEY**

SHEET NUMBER

**SS 1 OF 2**

**SUBJECT PROPERTY**

LOT 70, LOT 71 (EXCEPT THE EAST 18 FEET THEREOF), LOTS 72 THROUGH 95, BOTH INCLUSIVE, AND THE NORTH 24 FEET OF LOTS 96 THROUGH 100, BOTH INCLUSIVE, IN W.E. DOUGGETT'S SUBDIVISION OF BLOCK 14 IN CANAL TRUSTEES' SUBDIVISION OF THE NORTHEAST QUARTER OF SECTION 7, TOWNSHIP 39, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, ALSO LOTS 1 THROUGH 4 IN D.C. AHERY'S SUBDIVISION OF LOTS 96 THROUGH 100, BOTH INCLUSIVE, (EXCEPT THE NORTH 24 FEET THEREOF) OF AFORESAID W.E. DOUGGETT'S SUBDIVISION, ALL IN COOK COUNTY, ILLINOIS.



DATED AT PALOS HILLS, ILLINOIS, THIS 22ND DAY OF SEPTEMBER, A.D. 2010.

RICHARD P. URCHICK  
 PROFESSIONAL ENGINEER  
 LICENSE NO. 3788  
 EXPIRES 03/31/13  
 LICENSE RENEWAL DATE: NOVEMBER 30, 2010



**AT&T**  
590 NATIONAL PARKWAY  
SCHAUMBURG, IL 60173



**APEE**  
Pullman Engineering Consultants  
9600 W. BRYN MAWR, SUITE 200  
ROSEMONT, ILLINOIS 60018  
TEL: 847-292-0000  
FAX: 847-292-0205

DATE	DESCRIPTION
2/9/22/10	SITE SURVEY
1/5/10/10	PRELIMINARY

**LANDMARK**  
1840 W. OHIO STREET  
CHICAGO, IL 60622  
PALOS HILLS, ILLINOIS 60465-1229  
Phone (708) 569-3737  
PROJECT No. 10-04-012

**AT&T IL 0872**  
**CPS TALCOTT**  
1840 W. OHIO STREET  
CHICAGO, IL 60622  
COOK COUNTY

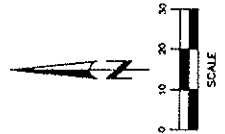
SHEET TITLE  
**SITE SURVEY**

SHEET NUMBER  
**SS 2 OF 2**

**NOTES**

- BEARINGS, IF ANY, SHOWN HEREON REFER TO NORTH DETERMINED BY GPS MEASUREMENT.
- ELEVATIONS SHOWN ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (WITH A CONVERSION OF MINUS 579.15 FEET TO CHICAGO CITY DATUM (CCD)).
- BENCHMARK: SQUARE ON VENT BASE LOCATED AS SHOWN:  
ELEVATION: 652.81 (73.66 CCD)
- AFFECTS PERMANENT TAX INDEX NUMBERS: 17-07-213-001 AND 17-07-213-003.
- SURFACE EVIDENCE OF UNDERGROUND IMPROVEMENTS, IF ANY, SHOWN HEREON IS BASED ON PHYSICAL OBSERVATIONS AND RECORDS, IF ANY, PROVIDED. NO DELINEATION OF UTILITY MARKERS OR UTILITY NOTATIONS BY A UTILITY MARKING SERVICE WAS PROVIDED FOR USE IN THE PREPARATION OF THIS SITE SURVEY.
- NO TITLE COMMITMENT WAS PROVIDED FOR USE IN THE PREPARATION OF THIS SITE SURVEY. SUBJECT PROPERTY LEGAL DESCRIPTION SHOWN HEREON WAS DEVELOPED SOLELY FOR THE PURPOSE OF THIS SURVEY USING INFORMATION FROM COOK COUNTY TAX MAPS AND CITY OF CHICAGO 80 ACRES MAPS ONLY FOR BUILDING LINES, EASEMENTS AND OTHER RESTRICTIONS NOT SHOWN HEREON. REFER TO DEED, TITLE INSURANCE POLICY, ABSTRACT, CONTRACTS AND LOCAL BUILDING AND ZONING ORDINANCES.
- THE SUBJECT PROPERTY SHOWN HEREON WITHIN ZONE X AND NOT WITHIN A SPECIAL FLOOD HAZARD AREA, AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR COOK COUNTY, ILLINOIS, ON FLOOD INSURANCE RATE MAP PANEL NUMBER 17031C0418 J, DATED AUGUST 19, 2008.
- CENTER OF PROPOSED ANTENNAE LOCATION:  
NAD 83  
LATITUDE NORTH 41°53'33.83"  
LONGITUDE WEST 87°40'26.87"  
NAD 27  
LATITUDE NORTH 41°53'33.71"  
LONGITUDE WEST 87°40'26.67"  
WITHIN TOLERANCES SET BY FAA IN 2C CERTIFICATE REQUIREMENTS.  
ELEVATION: 596 (17 CCD)  
ELEVATION: 658 (80 CCD)  
ELEVATION: 679 (100 CCD)  
ELEVATION: 687 (118 CCD)  
ELEVATION: 699 (120 CCD)
- ELEVATIONS AND IMPROVEMENTS SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS AND MEASUREMENTS PERFORMED MAY 3, 2010.

DATED AT PALOS HILLS, ILLINOIS THIS 22ND DAY OF SEPTEMBER, A.D. 2010.



*Richard P. Huchette*  
RICHARD P. HUCHETTE  
S.P.S. No. 035-00305  
LICENSE RENEWAL DATE: NOVEMBER 30, 2010  
PALOS HILLS, ILLINOIS

WEST ERIE STREET

SOUTH WOLCOTT AVENUE

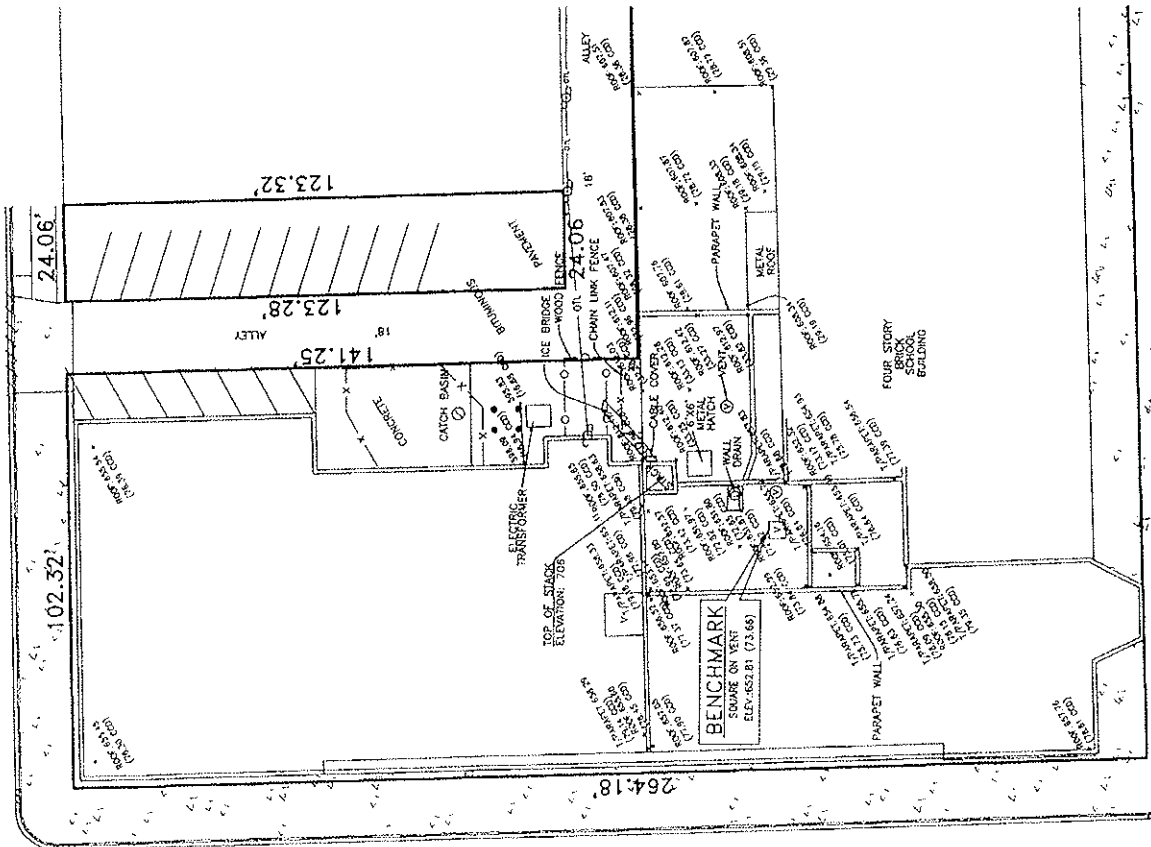




EXHIBIT "B"

RENEWAL TERM LICENSE FEE

RENEWAL TERM	LICENSE FEE
1 August 1, 2016-July 31, 2019	\$30,000.00
2 August 1, 2019-July 31, 2022	\$37,500.00
3 August 1, 2022-July 31, 2025	\$46,875.00
4 August 1, 2025-July 31, 2028	\$58,593.75