

**CITY OF REDMOND  
ORDINANCE NO. 2647**

AN ORDINANCE OF THE CITY OF REDMOND, WASHINGTON, GRANTING TO T-MOBILE WEST CORPORATION, ITS SUCCESSORS AND ASSIGNS, A NON-EXCLUSIVE FRANCHISE FOR FIVE (5) YEARS, TO ATTACH, INSTALL, OPERATE, AND MAINTAIN A TELECOMMUNICATIONS SYSTEM IN, ON, OVER, UPON, ALONG, AND ACROSS CERTAIN DESIGNATED PUBLIC RIGHTS-OF-WAY OF THE CITY OF REDMOND, WASHINGTON, PRESCRIBING CERTAIN RIGHTS, DUTIES, TERMS, AND CONDITIONS WITH RESPECT THERETO, AND ESTABLISHING AN EFFECTIVE DATE

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WHEREAS, T-Mobile West Corporation (hereinafter "the Franchisee") has requested that the City of Redmond (hereinafter "the City") grant it the right to install, operate, and maintain a wireless telecommunications system within the public ways of the City; and

WHEREAS, the City Council has found it desirable for the welfare of the City and its residents that such a non-exclusive franchise be granted to the Franchisee; and

WHEREAS, the City Council has the authority under RCW 35A.47.040 to grant franchises for the use of its streets and other public properties, and under RCW 47.24.020 (8) to grant franchises for the use of non-limited access to state highways within City limits; and

WHEREAS, the City has the authority under RCW Chapter 35.99 to grant, issue or deny master permits and use permits for the use of the right-of-way for telecommunications services; and

WHEREAS, the City is willing to grant the rights requested subject to certain terms and conditions.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF REDMOND, WASHINGTON DO ORDAIN AS FOLLOWS:

Section 1. Authority Granted. The City hereby grants to the Franchisee, its heirs, successors, legal representatives, and assigns, subject to the terms and conditions hereinafter set forth, the right, privilege, and authority to construct, operate, maintain, replace, and use all necessary equipment and facilities thereto for the wireless telecommunications facilities described in Exhibit A, which is attached hereto and incorporated by this reference. The Franchisee is authorized to place its telecommunications facilities in, under, on, across, over, through, along, or below the public ways of the City which are designated in Exhibit A and the plans attached thereto or as subsequently approved by the City, and to provide telecommunications services to persons located within the City. Provided, however, that the Franchisee shall apply for and obtain a Right-of-Way Use Permit pursuant to RMC Chapter 12.14.810 prior to site-specific location and installation of any and all such telecommunications facilities, as referred to in Section 9 below.

Section 2. Grant Limited to Occupation and Service. This Franchise merely authorizes Franchisee to occupy and use public ways and offer wireless telecommunications services within the City. As described in Section 9, Work in Public Ways, construction is not authorized without the appropriate land use permits. This Franchise does not and shall not convey any right to Franchisee to install its facilities on, under, over, across, or to otherwise use City-owned or leased properties of any kind

outside of the area shown on Exhibit A or to install facilities on, under, over, across or otherwise use any city-owned or leased property other than public roads, streets, avenues, alleys, and highways. Nothing contained herein shall be construed to grant or convey any right, title, or interest in the public ways of the City to the Franchisee. No substantive expansions, additions to or modifications or relocation of any of the facilities shall be permitted without first having received prior authorization from the City through an amendment to this Franchise. Written determination by the City granting or denying any proposed amendment to this Franchise shall not be unreasonably withheld or delayed. Under this Franchise, the facilities shall not be used for cable television, cable internet or wireline telephone services.

Section 3. Terms, Conditions, and Provisions of RMC Chapter 12.14 Incorporated by Reference. The terms, conditions, and provisions of RMC Chapter 12.14 are incorporated herein by reference. All rights granted hereunder are subject to the terms, conditions, and requirements of RMC Chapter 12.14 unless this Franchise specifically provides to the contrary. In the event that a conflict exists between the terms of this Franchise and the terms of RMC Chapter 12.14, the terms of this Franchise shall control.

Section 4. Term of Franchise. The term of this Franchise shall be for a period of 5 years from the effective date set forth in Section 41, below, unless sooner terminated. This Franchise may be renewed pursuant to the provisions of RMC Section

12.14.260, as said Section presently exists or is hereafter amended.

Section 5. Non-Exclusive Grant. This Franchise shall not in any manner prevent the City from entering into other similar agreements or franchises in, under, on, across, over, through, along or below any public ways of the City or other City-owned properties, nor from exercising such other powers and authorities granted to the City by law. Further, this Franchise shall in no way prevent or prohibit the City from using any of its public ways or other city-owned properties or affect its jurisdiction over them or any part of them, and the City shall retain power to make all necessary changes, relocations, repairs, maintenance, establishment, improvements, and dedication of the same as the City may deem fit, including the dedication, establishment, maintenance, and improvement of all new public ways and other city-owned properties of every type and description.

Section 6. Relocation of Telecommunications Facilities.

(A) The Franchisee agrees and covenants, to protect, support, temporarily disconnect, relocate, or remove from any public ways any of its telecommunications facilities when so required by the Public Works Director by reason of traffic conditions and public safety, dedications of new public ways and the establishment and improvement thereof, widening and improvement of existing public ways, street vacations, freeway construction, change or establishment of street grade, or the construction of any public improvement or structure by any governmental agency acting in a governmental capacity; provided

that the Franchisee shall in all such cases have the privilege to temporarily bypass, at a location approved by the Public Works Director, any section of cable or any other facility required to be temporarily disconnected or removed. Except as otherwise provided by state law, the cost and expense to protect, support, temporarily disconnect, relocate or remove the Franchisee's facilities from public ways shall be borne solely by the Franchisee.

(B) Upon request of the Public Works Director, and in order to facilitate the design of City street and right-of-way improvements, the Franchisee agrees to, at its sole cost and expense, locate, and if reasonably determined necessary by the City, to excavate and expose its telecommunications facilities for inspection so that the location of the same may be taken into account in the improvement design. The decision as to whether said facilities need to be relocated in order to accommodate the City's improvements shall be made by the Public Works Director upon review of the location and construction of the Franchisee's facilities.

(C) If the Public Works Director determines that the project necessitates relocation of the Franchisee's facilities, the City shall:

(1) Within a reasonable time, which shall be no less than 30 days, prior to the commencement of such improvement project, provide the Franchisee with written notice requiring such relocation; provided, however, that in the event of an emergency posing a threat to the public safety or welfare, or

in the event of an emergency beyond the control of the City and which will result in severe financial consequences to the City, the City shall give the Franchisee written notice as soon as practicable; and

(2) Provide the Franchisee with copies of pertinent information for such improvement project and a proposed location for the Franchisee's facilities so that the Franchisee may relocate its facilities in other public ways in order to accommodate such improvement project. After receipt of such notice and such pertinent information, the Franchisee shall complete relocation of its facilities so as to accommodate the improvement project at least 10 days prior to commencement of the project.

(D) The Franchisee may, after receipt of written notice requesting a relocation of its facilities, submit to the City written alternatives to such relocation. The City shall evaluate such alternatives and advise the Franchisee in writing if one or more of the alternatives are suitable to accommodate the work which would otherwise necessitate relocation of the facilities. If so requested by the City, the Franchisee shall submit additional relevant information to assist the City in making such evaluation. The City shall give each alternative proposed by the Franchisee full and fair consideration, within a reasonable time so as to allow for the relocation work to be performed in a timely manner. In the event the City ultimately determines that there is no other reasonable alternative, the Franchisee shall relocate its facilities as otherwise provided in this Section.

(E) The provisions of this Section shall survive the expiration, revocation, or termination of this Franchise; provided that relocation shall not be required after expiration of this Franchise if the City consents to the Franchisee abandoning its facilities in place.

(F) The provisions of this Section shall in no manner preclude or restrict the Franchisee from making any arrangements it may deem appropriate when responding to a request for relocation of its facilities by any person or entity other than the City, where the facilities to be constructed by said person or entity are not or will not become City-owned, operated or maintained facilities provided that such arrangements do not unduly delay a City construction project.

(G) The Franchisee will indemnify, hold harmless, and pay the costs of defending the City against any and all claims, suits, actions, damages, or liabilities for delays on City construction projects caused by or arising out of the failure of the Franchisee to relocate its facilities in a timely manner; provided, that the Franchisee shall not be responsible for damages due to delays caused by circumstances beyond the control of the Franchisee. The indemnity provisions of this Section shall survive the expiration, revocation, or termination of this Franchise.

Section 7.           Undergrounding of Facilities.

(A) The undergrounding requirements of this Section shall apply where the Franchisee's facilities consist of cable or any other facilities which are capable of being placed underground. This Section shall not apply to antennas or other facilities which

are required to remain above ground in order to be functional; provided, however, all other facilities and equipment capable of being installed underground must be undergrounded by Franchisee.

(B) The Franchisee shall not be permitted to erect poles or to run or suspend wires, cables or other facilities thereon, but shall lay such wires, cables or other facilities underground in the manner required by the City. The Franchisee acknowledges and agrees the City may, at any time in the future, require the conversion of the Franchisee's existing above-ground and/or aerial facilities to underground installation at the Franchisee's expense as provided by the RMC and RCDG 20D.220.10, or as such Sections may hereafter be amended.

(C) Whenever the City requires the undergrounding of above-ground and/or aerial utilities in any area of the City which the City has the legal authority to require to underground without the payment of costs under any tariff, the Franchisee shall underground its above-ground and/or aerial facilities in the manner specified by the City, concurrently with and in the area of all the other affected utilities. The location of any such relocated and underground utilities shall be approved by the City. The Franchisee shall underground its facilities at its own expense, but the Franchisee is encouraged to contact and agree with other affected utilities so that all costs for common trenching, common utility vaults and other costs not specifically attributable to the undergrounding of any particular facility are borne fairly and proportionately by all the utilities involved in the underground project. The provisions of this section shall



survive the expiration, revocation, or termination of this Franchise. Nothing in this paragraph shall be construed as requiring the City to pay any costs of undergrounding any of the Franchisee's facilities.

Section 8. The Franchisee's Maps and Records. After construction is complete, the Franchisee shall provide the City with accurate copies of all as-built plans, maps, and records. These plans, maps, and records shall be provided at no cost to the City, and shall conform to the requirements of RMC Section 12.14.930. At such time as Franchisee develops or employs Geographic Information System ("GIS") technology, Franchisee shall submit information in digital GIS format, showing the location of its facilities.

Section 9. Work in Public Ways.

(A) During any period of relocation, construction, or maintenance, all surface structures, if any, shall be erected and used in such places and positions within said public ways and other public properties so as to interfere as little as possible with the free passage of traffic and the free use of adjoining property, and the Franchisee shall at all times post and maintain proper barricades and comply with all applicable safety regulations during such period of construction as required by the ordinances of the City or the laws of the State of Washington, including RCW 39.04.180 for the construction of trench safety systems.

(B) Whenever the Franchisee shall commence any work within a public way, regardless of whether excavation is required, it

shall apply to the City for a Right-of-Way Use Permit to do so and, in addition, shall give the City at least 10 working days notice of the Franchisee's intent to commence work in the public ways. The Franchisee shall file plans or maps with the City showing the proposed location of its telecommunications facilities and pay all duly established permit and inspection fees associated with the processing of the permit. In no case shall any work commence within any public way without said permit, except as otherwise provided in this Franchise. During the progress of the work, the Franchisee shall not unnecessarily obstruct the passage or proper use of the public ways, and all work by the Franchisee in any area covered by this Franchise and as described in this Section shall be performed in accordance with City of Redmond Public Works Construction Standards and warranted for a period of one (1) year.

(C) If either the City or the Franchisee shall at any time plan to make excavations in any area covered by this Franchise and as described in this Section, the party planning such excavation shall afford the other, upon receipt of a written request to do so, an opportunity to share such excavation, PROVIDED THAT:

(1) Such joint use shall not unreasonably delay the work of the party causing the excavation to be made;

(2) Such joint use shall be arranged and accomplished on terms and conditions satisfactory to both parties; and

(3) Either party may deny such request for safety reasons.

(D) The joint use provisions of this Section shall apply

only to joint use by the City and the Franchisee. Nothing in this Section is intended to require the Franchisee to afford other similar users the opportunity to share the Franchisee's excavations. The provisions of this Section shall survive the expiration, revocation, or termination of this Franchise.

(E) In the event City desires to design new streets or intersections, renovate existing streets, or make any other public improvements, Franchisee shall at the City's reasonable request, provide the location of Franchisee's underground facilities by either field markings or by locating the facilities on the City's design drawings, and shall provide all other reasonable cooperation and assistance to the City.

Section 10. Restoration after Construction.

(A) The Franchisee shall, after installation, construction, relocation, maintenance, removal, or repair of its telecommunications facilities within the public ways, restore the surface of said public ways and any other City-owned property which may be disturbed by the work, to at least the same condition the public way or City-owned property was in immediately prior to any such installation, construction, relocation, maintenance, or repair. The Public Works Director shall have final approval of the condition of such public ways and City-owned property after restoration. All survey monuments which are to be disturbed or displaced by such work shall be referenced and restored, as per WAC 332-120, as the same now exists or may hereafter be amended, and all pertinent federal, state and local standards and specifications, including, but not limited to, the City of Redmond

Benchmark System's second order, first class specifications. The Franchisee agrees to promptly complete all restoration work and to promptly repair any damage caused by such work to the public ways or other affected area at its sole cost and expense according to the time and terms specified in the Right-of-Way Use Permit issued by the City and in Chapter 12.08 of the Redmond Municipal Code, as the same now exists or as it may hereafter be amended or superseded. The provisions of this Section shall survive the expiration, revocation, or termination by other means of this Franchise. All work by the Franchisee pursuant to this Section shall be performed in accordance with City of Redmond Public Works construction standards and warranted for a period of one (1) year. In the event the Franchisee does not repair a right-of-way or an improvement in or to a right-of-way, the City may repair the damage and shall be reimbursed within ten (10) days of submitting an invoice to Franchisee.

(B) The Franchisee shall not excavate for a distance of more than one hundred feet (100'), or a length otherwise approved by the City, without immediately backfilling and compacting to surface grade and City standards. Backfilled trench areas within a driving lane must be patched, either temporarily or permanently, before the end of the work day in which they have been opened. Trench areas within the public ways, but not within a driving lane, must also be patched within the time limits specified by the City on the Right-of-Way Use Permit. Final surface restoration shall be completed within thirty (30) days and shall be equal to or better than the surface condition prior to permit issuance.

(C) Any asphalt overlay during the five (5) year-period immediately prior to the date of permit application shall not be open cut by Franchisee unless required by an emergency. Franchisee shall install new asphalt overlay on any street that is open cut, whether in an emergency or otherwise, according to the following standards:

(1) For a parallel (longitudinal) open cut confined to one lane that does not come within two feet of another lane, the Franchisee shall install new asphalt overlay for the entire lane for the length of the open cut plus an additional five feet from both ends of the open cut. If within two feet of another lane, the Franchisee shall install new asphalt overlay for both lanes for the length of the open cut plus an additional five feet from both ends of the open cut. In either case the length of the overlay shall be a minimum of fifty feet.

(2) For a perpendicular (transverse) open cut, the Franchisee shall install new asphalt overlay for all lanes affected by the open cut, including lanes within two feet of either end of the open cut, for a minimum of fifty feet (twenty-five feet in each direction).

(3) Installation of new asphalt overlay by the Franchisee shall include a 2" grind for the length of the prescribed overlay.

(D) Franchisee shall comply with RMC Section 12.14.930 and shall also provide to the City, if so requested by the City, plans stamped by a Professional Engineer licensed by the State of Washington showing the "as built" location of the facilities.

Section 11. Emergency Work -- Permit Waiver. In the event of any emergency in which any of the Franchisee's telecommunications facilities located in, above, or under any public way breaks, are damaged, or if the Franchisee's construction area is otherwise in such a condition as to immediately endanger the property, life, health, or safety of any individual, the Franchisee shall immediately take the proper emergency measures to repair its facilities, to cure or remedy the dangerous conditions for the protection of property, life, health, or safety of individuals without first applying for and obtaining a permit as required by this Franchise; however, this shall not relieve the Franchisee from the requirement of notifying the City of the emergency work and obtaining any permits necessary for this purpose after the emergency work. The Franchisee shall notify the City by telephone immediately upon learning of the emergency and shall apply for all required permits not later than the second succeeding day during which the Redmond City Hall is open for business. The City will endeavor to notify Franchisee as soon as possible of any emergency that requires the City to turn off Franchisee's equipment.

Section 12. Dangerous Conditions, Authority for City to Abate. Whenever construction, installation, or excavation of telecommunications facilities authorized by this Franchise has caused or contributed to a condition that appears to substantially impair the lateral support of the adjoining public way, street, or public place, or endangers the public, street utilities, or City-owned property, the Public Works Director may direct the

Franchisee, at the Franchisee's own expense, to take action to protect the public, adjacent public places, City-owned property, streets, utilities, and public ways. Such action may include compliance within a prescribed time.

In the event that the Franchisee fails or refuses to promptly take the actions directed by the City, or fails to fully comply with such directions, or if emergency conditions exist which require immediate action, the City may enter upon the property and take such actions as are necessary to protect the public, the adjacent streets, utilities, public ways, to maintain the lateral support thereof, or actions regarded as necessary safety precautions; and the Franchisee shall be liable to the City for the costs thereof. The provisions of this Section shall survive the expiration, revocation, or termination by other means of this Franchise.

Section 13. Recovery of Costs. The Franchisee shall be subject to all permit fees associated with activities undertaken through the authority granted in this Franchise or under the laws of the City. Where the City incurs reasonable costs and expenses for which a fee is not established, including but not limited to attorneys, consultants, City Staff, and City Attorney's Office, in connection with the review, inspection, or supervision of activities undertaken through the authority granted in this Franchise or any ordinances relating to the subject, the Franchisee shall reimburse the City directly for any and all costs after receiving an invoice documenting said costs and expenses in sufficient detail to demonstrate that they were reasonably

necessary to perform the aforementioned actions.

In addition to the above, the Franchisee shall promptly reimburse the City for any and all costs the City reasonably incurs in response to any emergency involving the Franchisee's telecommunications facilities.

Franchisee shall within thirty (30) days after written demand reimburse the City upon submittal by the City of an itemized billing by project of costs and expenses associated with matters referred to in this Section 13, and for the Franchisee's proportionate share of all actual, identified expenses incurred by the City in planning, constructing, installing, repairing or altering any City facility as the result of the presence in the right-of-way of the Franchisee's facilities. Such costs and expenses shall include but not be limited to the Franchisee's proportionate cost of City personnel assigned to oversee or engage in any work in the public ways as the result of the presence of the Franchisee's facility in the public ways. Such costs and expenses shall also include the Franchisee's proportionate share of any time spent reviewing construction plans in order to either accomplish the relocation of the Franchisee's facilities or the routing or rerouting of any utilities so as not to interfere with the Franchisee's facilities.

The time of City employees shall be charged at their respective rate of salary, including overtime if applicable, plus benefits and overhead. Any other costs will be billed proportionately on an actual cost basis. All billings will be itemized so as to specifically identify the costs and expenses for



each project for which the City claims reimbursement. A charge for the actual costs incurred in preparing the billing may also be included in said billing. The billing may be on an annual basis or sooner, but the City shall provide the Franchisee with the City's itemization of costs at the conclusion of each project for information purposes.

Section 14. City's Reservation of Rights. Pursuant to RCW Section 35.21.860, the City is precluded from imposing a fee on a "telephone business" as defined in RCW 82.04.065, except for administrative expenses or any applicable tax authorized by RCW 35.21.865. This Franchise is premised upon the City and Franchisee's understanding that the activities proposed by the Franchisee constitute a "telephone business." As such, the rights granted under this Franchise are not conditioned upon payment of compensation in addition to reimbursement for administrative costs as set forth in Section 13 herein and payment of the utility tax set forth in RMC Chapter 5.44. The City hereby reserves its right to impose a fee on the Franchisee, to the extent authorized by law, for purposes other than to recover its administrative expenses, if the Franchisee's operations are not those of a "telephone business" as defined in RCW 82.04.065, if the Franchisee's operations are now those of a telephone business and change in the future, or if statutory prohibitions on the imposition of such fees are removed. The City also reserves its right to require that the Franchisee obtain a separate agreement for its change in use, which agreement may include provisions intended to regulate the Franchisee's operations, as allowed under

applicable law.

Section 15. Coordination of Construction. In accordance with RMC 12.14.660, Franchisee shall coordinate its construction activities and joint trenching activities.

Section 16. Indemnification and Waiver.

(A) Franchisee hereby releases, covenants not to bring suit and agrees to indemnify, defend and hold harmless the City, its elected and appointed officers, officials, employees, agents, engineers, consultants, volunteers and representatives from any and all claims, costs, judgments, awards or liability to any person arising from injury, sickness, or death of any person or damage to property:

(1) For which the negligent acts or omissions of Franchisee, its agents, servants, officers or employees in performing the activities authorized by this Franchise are the proximate cause;

(2) By virtue of Franchisee's exercise of the rights granted herein;

(3) By virtue of the City's permitting Franchisee's use of the City's public ways or other public property;

(4) Based upon the City's inspection or lack of inspection of work performed by Franchisee, its agents and servants, officers or employees in connection with work authorized on the facility or property over which the City has control, pursuant to this Franchise or pursuant to any other permit or approval issued in connection with this Franchise;

(5) Arising as a result of the negligent acts or omissions of Franchisee, its agents, servants, officers or employees in barricading, instituting trench safety systems or providing other adequate warnings of any excavation, construction, or work upon the facility, in any public way, or other public place in performance of work or services permitted under this Franchise;

(6) Based upon radio frequency emissions or radiation emitted from Franchisee's equipment located upon the facility, regardless of whether Franchisee's equipment complies with applicable federal statutes and/or FCC regulations related thereto.

(B) Franchisee's indemnification obligations pursuant to Subsection A of this Section shall include assuming potential liability for actions brought by Franchisee's own employees and the employees of Franchisee's agents, representatives, contractors, and subcontractors even though Franchisee might be immune under Title 51 RCW from direct suit brought by such employees. It is expressly agreed and understood that this assumption of potential liability for actions brought by the aforementioned employees is with respect to claims against the City arising by virtue of Franchisee's exercise of the rights set forth in this Franchise. The obligations of Franchisee under this Subsection B have been mutually negotiated by the parties hereto, and Franchisee acknowledges that the City would not enter into this Franchise without Franchisee's waiver thereof. To the extent required to provide this indemnification and this indemnification

only, Franchisee waives its immunity under Title 51 RCW as provided in RCW 4.24.115.

(C) Inspection or acceptance by the City of any work performed by Franchisee at the time of completion of construction shall not be grounds for avoidance of any of these covenants of indemnification. Provided that Franchisee has been given prompt written notice by the City of any such claim, said indemnification obligations shall also extend to claims which are not reduced to a suit and any claims which may be compromised prior to the culmination of any litigation or the institution of any litigation. In the event any action or proceeding shall be brought against the City resulting from Franchisee's operations hereunder, Franchisee shall, at Franchisee's sole cost and expense, resist and defend the same provided, however, that Franchisee shall not admit liability in any such manner on behalf of the City without the written consent of the City. Nothing herein shall be deemed to prevent City from cooperating with Franchisee and participating in the defense of any litigation with City's own counsel. Franchisee shall pay all expenses incurred by City in response to any such actions, suits or proceedings. These expenses shall include all out-of-pocket expenses such as attorneys' fees and shall also include the reasonable value of any services rendered by the City Attorney's Office, and the actual expenses of City's agents, employees, consultants and expert witnesses and disbursements and liabilities incurred by the City in connection with such suits, actions or proceedings. The City has the right to defend or participate in the defense of any such

claim, and has the right to approve any settlement or other compromise of any such claim.

(D) In the event that Franchisee refuses the tender of defense in any suit or any claim, said tender having been made pursuant to this Section, and said refusal is subsequently determined by a court having jurisdiction (or such other tribunal that the parties shall agree to decide the matter) to have been a wrongful refusal on the part of Franchisee, then Franchisee shall pay all of the City's costs for defense of the action for which tender was refused, including all reasonable expert witness fees and reasonable attorneys' fees. The Franchisee shall also pay the reasonable costs of the City and reasonable attorneys' fees incurred by the City in bringing any action to recover under this Subsection.

(E) The obligations of Franchisee under the indemnification provisions of this Section shall apply regardless of whether liability for damages arising out of bodily injury to persons or damages to property were caused or contributed to by the concurrent negligence of the City, its officers, agents, employees or contractors. The provisions of this Section, however, are not to be construed to require the Franchisee to hold harmless, defend or indemnify the City as to any claim, demand, suit or action which arises out of the sole negligence of the City. In the event that a court of competent jurisdiction determines that this Franchise is subject to the provisions of RCW 4.24.115, the parties agree that the indemnity provisions hereunder shall be deemed amended to provide that the Franchisee's obligation to

indemnify the City hereunder shall extend only to the extent of Franchisee's negligence.

(F) Notwithstanding any other provisions of this Section, Franchisee assumes the risk of damage to its telecommunications facilities located in the public ways and upon City-owned property from activities conducted by the City, its officers, agents, employees and contractors, except to the extent any such damage or destruction is caused by or arises from the sole negligence, any willful or malicious action on the part of the City, its officers, agents, employees or contractors. Franchisee releases and waives any and all such claims against the City, its officers, agents, employees and contractors. Franchisee further agrees to indemnify, hold harmless and defend the City against any claims for damages, including, but not limited to, business interruption damages and lost profits, brought by or under users of Franchisee's facilities as the result of any interruption of service due to damage or destruction of Franchisee's facilities caused by or arising out of activities conducted by the City, its officers, agents, employees or contractors, except to the extent any such damage or destruction is caused by or arises from the sole negligence or any willful or malicious actions on the part of the City, its officers, agents, employees or contractors.

(G) The provisions of this Section shall survive the expiration, revocation, or termination of this Franchise.

Section 17. Insurance. The Franchisee shall procure and maintain for the duration of the Franchise, insurance against claims for injuries to persons or damages to property which may

arise from or in connection with the exercise of the rights, privileges and authority granted hereunder to the Franchisee, its agents, representatives or employees. Prior to the commencement of any work or installation of any facilities pursuant to this Franchise, the Franchisee shall provide to the City for its inspection an insurance certificate, together with an endorsement copy, naming the City, its officers, elected officials, agents, employees, representatives, engineers, consultants and volunteers as additional insureds under the Commercial General Liability, Automobile Liability and Comprehensive Form policies, and such insurance certificate shall evidence:

- (A) Comprehensive general liability insurance, written on an occurrence basis, with limits not less than:
  - (1) \$2,000,000.00 for bodily injury or death to each person;
  - (2) \$2,000,000.00 for property damage resulting from any one accident; and
  - (3) \$2,000,000.00 for all other types of liability;
- (B) Automobile liability for owned, non-owned and hired vehicles with a limit of \$2,000,000.00 for each person and \$2,000,000.00 for each accident;
- (C) Worker's compensation within statutory limits and employer's liability insurance with limits of not less than \$1,000,000.00; and
- (D) Comprehensive Form premises-operations, explosions and collapse hazard, underground hazard and products completed hazard with limits of not less than

\$2,000,000.00.

The liability insurance policies required by this Section shall be maintained by the Franchisee throughout the term of this Franchise, and such other period of time during which the Franchisee is operating without a Franchise hereunder, or is engaged in the removal of its telecommunications facilities. Failure to maintain such insurance shall be grounds for Franchise cancellation. Any deductibles or self-insured retentions must be declared to and approved by the City. Payment of deductibles and self-insured retentions shall be the sole responsibility of the Franchisee and must be declared to and approved by the City. The insurance certificate required by this Section shall contain a clause stating that coverage shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability. The Franchisee's insurance shall be primary insurance with respect to the City, its elected and appointed officers, officials, employees, agents, representatives, engineers, consultants, and volunteers. Any insurance maintained by the City, its elected and appointed officers, officials, employees, consultants, agents, representatives, engineers and volunteers shall be in excess of the Franchisee's insurance and shall not contribute with Franchisee's insurance.

In addition to the coverage requirements set forth in this Section, each such insurance policy and insurance certificate shall contain the following endorsement and cancellation clause:

"Should any of the required policies be cancelled or



reduced as to coverage before the expiration date thereof, the issuing company will mail sixty (60) days written notice to the certificate holder, the City of Redmond, the named additional insured"

Within thirty (30) days after receipt by the City of said notice, and in no event later than fifteen (15) days prior to said cancellation or intent not to renew, the Franchisee shall obtain and furnish to the City a replacement insurance certificate meeting the requirements of this Section.

Section 18. Abandonment and Removal of the Franchisee's Facilities. Upon the expiration, termination, or revocation of the rights granted under this Franchise, and consistent with the provisions of RMC Chapter 12.14, the Franchisee shall remove all of its telecommunications facilities from the public ways of the City within 90 days of receiving notice from the Public Works Director. Except as specifically provided by RMC Chapter 12.14, the Franchisee shall not be allowed to abandon any of its telecommunications facilities within the public ways of the City or upon City-owned property.

Section 19. Commencement of Construction. Construction of the facilities contemplated by this Franchise shall commence no later than one (1) year after the effective date of this Franchise; provided that such time limit shall not apply to delays caused by acts of God, strikes, eminent domain litigation or other occurrences over which the Franchisee has no control.

Section 20. Restoration Bond. Per RMC Section 12.14.650, before undertaking any of the work, installation, improvements,

construction, repair, relocation, removal or maintenance authorized or required by this Franchise, the Franchisee shall furnish a performance bond written by a corporate surety acceptable to the City equal to at least 100% of the estimated cost of completing or removing the Franchisee's telecommunications equipment and facilities and restoring the public ways of the City to their pre-construction condition. Said bond shall be required to remain in full force until sixty (60) days after completion of the construction or removal of the Franchisee's facilities. The Franchisee shall warrant all such construction, improvements, and/or restoration work for a period of one (1) year. The purpose of this Bond is to guarantee completion or removal of partially completed and/or nonconforming telecommunications facilities and other improvements installed by Franchisee, or removal of such facilities upon expiration, termination, or revocation of this Franchise, and to fully restore the public ways to its pre-construction condition.

Section 21. Security Fund. Before undertaking any of the work, installation, improvements, construction, repair, relocation or maintenance authorized by this Franchise, the Franchisee shall establish a permanent security fund in the amount of \$10,000.00 to guarantee the full and complete performance of the requirements of this Franchise, the requirements of RMC Chapter 12.14, and to guarantee payment of any costs, expenses, damages, or loss the City pays or incurs, including civil penalties, because of any failure attributable to the Franchisee to comply with the codes, ordinances, rules, regulations, or permits of the City. Prior to

withdrawal of any funds from the security fund, the City shall comply with the provisions of RMC Section 12.14.640 as that section presently exists or is hereafter amended. The Franchisee may provide, in lieu of a cash security deposit to the City, an unconditional letter of credit made out to the City, or bond in the amount of \$10,000 to secure performance under this Franchise.

The letter of credit or bond shall be in a form acceptable to the City Attorney.

Section 22. Modification. Subject to the provisions of RMC Section 12.14.250, the City and the Franchisee hereby reserve the right to alter, amend or modify the terms and conditions of this Franchise upon written agreement of both parties to such alteration, amendment or modification.

Section 23. Forfeiture and Revocation. The rights granted under this Franchise may be revoked or forfeited as provided in RMC Chapter 12.14 as said Chapter presently exists or is hereafter amended. The failure of the City to insist upon strict performance of any of the covenants and agreements of this Franchise or to exercise any option herein conferred in any one or more instances, shall not be construed to be a waiver or relinquishment of any such covenant, agreement or option or any other covenant, agreement or option.

Section 24. Remedies to Enforce Compliance. In addition to other processes and remedies set forth herein, if Franchisee shall fail to comply with any of the provisions of this Franchise, the City may serve a written notice to Franchisee ordering such compliance and except as otherwise provided herein or Chapter

12.14. Franchisee shall have thirty (30) days from Franchisee's receipt of such notice in which to comply. In addition to any other remedy provided in this Franchise or within RMC Chapter 12.14, the City reserves the right to pursue any remedy to compel or force the Franchisee and/or its successors and assigns to comply with the terms hereof, and the pursuit of any right or remedy by the City shall not prevent the City from thereafter declaring a forfeiture or revocation for breach of the conditions herein. Any remedies provided for under the terms of this Franchise are not intended to be exclusive but shall be cumulative with all other remedies available to the City at law, in equity or by statute.

Section 25. City Ordinances and Regulations. Nothing herein shall be deemed to direct or restrict the City's ability to adopt and enforce all necessary and appropriate ordinances regulating the performance of the conditions of this Franchise, including any valid ordinance made in the exercise of its police powers in the interest of public safety and for the welfare of the public. The City shall have the authority at all times to control by appropriate regulations the location, elevation, manner of construction and maintenance of any telecommunications facilities by the Franchisee, and the Franchisee shall promptly conform with all such regulations, unless compliance would cause the Franchisee to violate other requirements of law.

Section 26. Survival. All of the provisions, conditions and requirements of Sections 6, Relocation of Telecommunications Facilities; 7, Undergrounding of Facilities; 9, Work in Public

Ways; 10, Restoration after Construction; 12, Dangerous Conditions, Authority for City to Abate; 16, Indemnification and Waiver; 17, Insurance; and 18, Abandonment and Removal of the Franchisee's Facilities, of this Franchise shall be in addition to any and all other obligations and liabilities the Franchisee may have to the City at common law, by statute, or by contract, and shall survive the expiration or termination of this Franchise, and any renewals or extensions thereof. All of the provisions, conditions, regulations and requirements contained in this Franchise shall further be binding upon the heirs, successors, executors, administrators, legal representatives and assigns of the Franchisee and all privileges, as well as all obligations and liabilities of the Franchisee shall inure to its heirs, successors and assigns equally as if they were specifically mentioned wherever the Franchisee is named herein.

Section 27. Non-Severability. Each term and condition of this Franchise is an integral part of the consideration given by each party and as such, the terms and conditions of this Franchise are not severable. If any section, sentence, clause or phrase of this Franchise should be held to be invalid or unconstitutional by a court of competent jurisdiction, this Franchise shall terminate unless suitable replacement terms can be agreed to by the parties.

Section 28. Assignment. This Franchise may not be assigned or transferred except as provided in RMC Chapter 12.14, except that the Franchisee may freely assign this Franchise in whole or in part to a parent, subsidiary, or affiliated corporation or as part of any corporate financing, reorganization

or refinancing. In the case of transfer or assignment as security by mortgage or other security instrument in whole or in part to secure indebtedness, such consent shall not be required unless and until the secured party elects to realize upon the collateral. The Franchisee shall provide prompt, written notice to the City of any such transfer or assignment.

Section 29. Notice. Any notice or information required or permitted to be given to the parties under this Franchise may be sent to the following addresses unless otherwise specified:

<u>City:</u>	<u>Franchisee:</u>
City of Redmond	T-Mobile West Corporation
Director of Public Works	Maria Emig
15670 N.E. 85th Street	11807 North Creek Parkway North
P.O. Box 97010	Bothell, WA 98011
Mail Stop 4NPW	
Redmond, WA 98073-9710	

Section 30. Entire Agreement. Except for the terms and conditions of applicable and future laws, ordinances, rules, regulations and other City land use approvals, authorizations or permits or related communications, this Franchise constitutes the entire understanding and agreement between the parties as to the subject matter herein and no other agreements or understandings, written or otherwise, shall be binding upon the parties upon execution of this Franchise. With respect to the area affected by this Franchise, this Franchise supersedes all previous franchises and agreements between the parties and any such agreements are hereby cancelled.

Section 31. Eminent Domain. The existence of this Franchise shall not preclude the City from acquiring by condemnation, in accordance with applicable law, all or a portion of Franchisee's facilities for the fair market value thereof. In determining the value of such facilities, no value shall be attributed to the right to occupy the area conferred by this Franchise.

Section 32. Vacation. If at any time the City, by ordinance, vacates all or any portion of the area affected by this Franchise, the City will not be liable for any damages or loss to the Franchisee by reason of such vacation. The City shall notify Franchisee in writing not less than sixty (60) days before vacating all or any portion of such area. The City may, after sixty (60) days written notice to Franchisee, terminate this Franchise with respect to such vacated area.

Section 33. Acceptance. Within 60 days after the passage and approval of this ordinance, this Franchise may be accepted by Franchisee filing with the City Clerk an unconditional written acceptance thereof. Failure of the Franchisee to so accept this franchise within said period of time shall be deemed a rejection thereof, and the rights and privileges herein granted shall, after the expiration of the 60 day period, absolutely cease and determine, unless the time period is extended by ordinance duly passed for that purpose.

Section 34. Lights, Signs and Symbols. All lights, signs or symbols placed by the Franchisee shall be subject to the prior approval of the City. In the event Franchisee shall place lights,

signs or symbols where they are visible from the street and not acceptable to the City, the City may demand the immediate removal of such lights, signs or symbols and the refusal of Franchisee to comply with such demand within twenty-four (24) hours will constitute a breach of this Franchise, thereby entitling the City to exercise any available legal remedy and to remove the lights, signs or symbols.

Section 35. Compliance with All Applicable Laws.

Franchisee agrees to comply with all present and future federal, state and local laws, ordinances, rules and regulations. This Franchise is subject to ordinances of general applicability enacted pursuant to the City's police powers. Franchisee further agrees to save and hold the City harmless from damage, loss or expense arising out of the said use or work, unless caused by the City's sole negligence and to remove all liens or encumbrances arising as a result of said use or work. Franchisee shall at its own expense maintain its facilities in a safe condition, in good repair and in a manner suitable to the City. Additionally, Franchisee shall keep its facilities free of debris and anything of a dangerous, noxious or offensive nature or which would create a hazard or undue vibration, heat, noise or any interference with City services.

Section 36. Attorneys' Fees. If a suit or other action is instituted in connection with any controversy arising out of this Franchise, the prevailing party shall be entitled to recover all of its costs and expenses, including such sum as the Court may judge as reasonable for attorneys' fees, costs, expenses and



attorneys' fees upon appeal of any judgment or ruling.

Section 37. Hazardous Substances. Franchisee shall not introduce or use any hazardous substances (chemical or waste) in violation of any applicable law or regulation, nor shall Franchisee allow any of its agents, contractors or any other person under its control to do the same. Franchisee will be solely responsible for and will defend, indemnify, and hold the City, its agents and employees harmless from and against any and all direct claims, costs and liabilities including reasonable attorneys' fees and costs, arising out of or in connection with the cleanup or restoration of the property associated with Franchisee's use, storage, or disposal of hazardous substances or the use, storage or disposal of such substances by Franchisee's agents, contractors or other persons acting under Franchisee's control.

Section 38. Licenses, Fees and Taxes. Prior to constructing any improvements, Franchisee shall obtain a Business License from the City and a Telecommunications Business Registration if required by the RMC. Franchisee shall pay promptly and before they become delinquent all taxes on all personal property and improvements owned or placed by Franchisee and shall pay all license fees and public utility charges relating to the conduct of its business; shall pay for all permits, licenses and zoning approvals, shall pay any other applicable tax unless documentation of exemption is provided to the City and shall pay utility taxes and Business License fees imposed by the City.

Section 39. Notice of Tariff Changes. The Franchisee shall, when making application for any changes in tariffs affecting the provisions of this Franchise, notify the City in writing of the application and provide the Public Works Director with a copy of the submitted application within three days of filing with the Washington Utilities and Transportation Commission or other regulatory body. The Franchisee shall further provide the Public Works Director with a copy of any actual approved tariff change affecting the provisions of this Franchise.

Section 40. Miscellaneous.

A. City and Franchisee respectively represent that its signatory is duly authorized and has full right, power and authority to execute this Franchise.

B. This Franchise shall be construed in accordance with the laws of the State of Washington.

C. Section captions and headings are intended solely to facilitate the reading thereof. Such captions and headings shall not affect the meaning or interpretation of the text herein.

D. Where the context so requires, the singular shall include the plural and the plural includes the singular.

E. Franchisee shall be responsible for obtaining all other necessary approvals, authorizations and agreements from any party or entity and it is acknowledged and agreed that the City is making no representation, warranty or covenant whether any of the foregoing approvals, authorizations or agreements are required or have been obtained by Franchisee from any person or entity.

F. This Franchisee may be enforced at both law and equity.

G. This Franchise may be executed in duplicate counterparts, each of which shall be deemed an original.

H. Franchisee acknowledges that it, and not the City, shall be responsible for the premises and equipment's compliance with all marking and lighting requirements of the FAA and the FCC.

Franchisee shall indemnify and hold the City harmless from any fines or other liabilities caused by Franchisee's failure to comply with such requirements. Should the Franchisee or the City be cited by either the FCC or the FAA because the premises or the Franchisee's equipment is not in compliance and should Franchisee fail to cure the conditions of noncompliance within the timeframe allowed by the citing agency, the City may either terminate this Franchise immediately on notice to Franchisee or proceed to cure the conditions of noncompliance at Franchisee's expense.

Section 41. Effective Date. This ordinance, being an exercise of a power specifically delegated to the City legislative body, is not subject to referendum, and shall take effect 5 days after passage and publication of an approved summary thereof consisting of the title.

ADOPTED by the Redmond City Council this 21st day of  
February, 2012.

APPROVED:

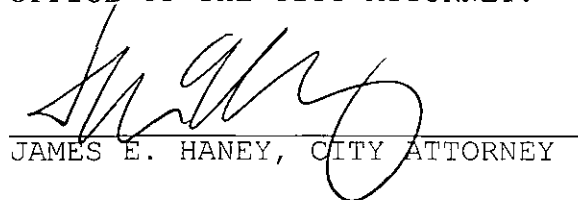
  
\_\_\_\_\_  
JOHN MARCHIONE, MAYOR

ATTEST:

  
\_\_\_\_\_  
MICHELLE M. MCGEHEE, MMC, CITY CLERK

(SEAL)

APPROVED AS TO FORM:  
OFFICE OF THE CITY ATTORNEY:

  
\_\_\_\_\_  
JAMES E. HANEY, CITY ATTORNEY

FILED WITH THE CITY CLERK:	February 1, 2012
PUBLIC HEARING:	February 7, 2012
PASSED BY THE CITY COUNCIL:	February 21, 2012
SIGNED BY THE MAYOR:	February 21, 2012
PUBLISHED:	February 27, 2012
EFFECTIVE DATE:	March 3, 2012
ORDINANCE NO. 2647	

ADOPTED 7-0: Allen, Carson, Flynn, Margeson, Myers, Stilin and Vache

**ACCEPTANCE**

The undersigned hereby accepts all the rights and privileges of the above granted Franchise and acknowledges that such rights and privileges are subject to and limited by all of the terms, conditions and obligations contained therein.

DATED this 1 day of March, 2012.

---

By: Michael Cady  
Print Name: Michael Cady  
Its: Agent

**EXHIBIT A**

[Exhibit will be a complete set of 11" x 17" Construction Drawings  
for each site]

SUMMARY OF ORDINANCE NO.

of the City of Redmond, Washington

On the 21<sup>st</sup> day of February, 2012, the City Council of the City of Redmond, passed Ordinance No. 2647. A summary of the content of said ordinance, consisting of the title, provides as follows:

AN ORDINANCE OF THE CITY OF REDMOND, WASHINGTON, GRANTING TO T-Mobile West, ITS SUCCESSORS AND ASSIGNS, A NON EXCLUSIVE FRANCHISE FOR FIVE (5) YEARS, TO ATTACH, INSTALL, OPERATE, AND MAINTAIN A TELECOMMUNICATIONS SYSTEM IN, ON, OVER, UPON, ALONG, AND ACROSS CERTAIN DESIGNATED PUBLIC RIGHTS-OF-WAY OF THE CITY OF REDMOND, WASHINGTON, PRESCRIBING CERTAIN RIGHTS, DUTIES, TERMS, AND CONDITIONS WITH RESPECT THERETO, AND ESTABLISHING AN EFFECTIVE DATE.

The full text of this Ordinance will be mailed upon request.

DATED this 1 day of March, 2012.

Michelle McGehee  
City Clerk, Michelle McGehee, MMC

# T-Mobile

## REDMONDS ROAD & NE 40TH/PSE/ROW

IN ROW ADJACENT TO 16800 NE 40TH ST  
REDMOND, WA 98052

### SITE NUMBER: SE02354B

LATITUDE 47° 38' 45.56" N

LONGITUDE 122° 06' 56.49" W

VICINITY MAP	PROJECT TEAM	PROJECT INFORMATION	PROJECT DESCRIPTION	DRAWING INDEX
	<b>CONTACT INFORMATION</b> CONTACT TITLE: CITY OF REDMOND PROPERTY OWNER:	THIS IS UNLIMITED AND RESTRICTED EQUIPMENT AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF PROVIDING PUBLIC UTILITY SERVICE.  T-MOBILE CERTIFIES THAT THIS TELEPHONE EQUIPMENT FACILITY WILL BE SERVICED ONLY BY T-MOBILE EMPLOYEES AND THE WORK ASSOCIATED WITH ANY EQUIPMENT CANNOT BE PERFORMED BY HANDICAPPED PERSONS. THIS FACILITY WILL BE PERFORMED ONLY BY SERVICE PERSONNEL FOR REPAIR PURPOSES PURSUANT TO THE AMERICANS WITH DISABILITIES ACT (ADA) - HRR 9000 SECTION 4.11. (1983). THIS FACILITY IS EXEMPT FROM THAT ACT.  NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.  NO WASTE WATER OR SOLID WASTE WILL BE GENERATED AT THIS LOCATION.	I-MOBILE PROPOSES TO CONSTRUCT AN UNLIMITED TELECOMMUNICATIONS FACILITY CONSISTING OF AN RACK CABINET LOCATED AT BOTTOM OF A 7' POLE. THE FACILITY WILL INCLUDE UTILITY POLE & ANTENNAS WITHIN A 16' CANISTER AT TOP.	DWG. TITLE SHEET G-1 GENERAL NOTES A-1 T-1 TELE ROUTING PLAN A-1-1 OVERALL SITE PLAN A-1-2 ELECTRIFIED SITE PLAN A-2 PROPOSED WIRE ELECTRICAL A-3 SITE EQUIPMENT DETAILS A-4 GENERAL DETAILS A-5 ANTENNA ASSEMBLY DETAILS G-1-G-2 (LOND SUPPLY (IF OTHER)) E-1 ELECTRICAL SHEET E-2 ELECTRICAL GROUNDINGS PLAN E-3 ELECTRIC GROUNDINGS OF TOWER E-4 ELECTRICAL DETAILS W-1 W/O DETAILS W-2 W/O DETAILS
	<b>PROGRAM MANAGER</b> T-MOBILE 150 CARRIAGE RD 17607 NORTH 3913 PLYM N BOTHELL, WA 98011 OFFICE P: 206-881-6122	<b>CONSTRUCTION PROJECT MANAGER</b> TELECOM/PC/E SHEILA GEEFFER 17607 NORTH 3913 PLYM N BOTHELL, WA 98011 PHONE P: 425-428-2438	<b>UTILITY PUEYVOR</b> POWER COMPANY: PSE TELECO COMPANY: VERIZON  <b>CODE COMPLIANCE</b> ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE EXPLICIT EXTENSION OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITY'S. NOTWITHSTANDING THE ABOVE, NO WORK IS TO BE CONSTRUCTED TO VIOLATE WORK NOT CONFORMING TO THESE CODES.	<b>ZONING INFORMATION</b> SITE NUMBER: SE02354B SITE NAME: REDMONDS ROAD & NE 40TH/PSE/ROW SITE ADDRESS: IN ROW ADJACENT TO 16800 NE 40TH ST REDMOND, WA 98052 PARCEL #: IN ROW ADJACENT TO 242506004 CURRENT ZONING: IN PUBLIC ROW JURISDICTION: CITY OF REDMOND ZONING CODE: 30A-01C BUILDING TYPE: SITE TYPE: UNLIMITED TELECOMM FACILITY
<b>DRIVING DIRECTIONS</b> FROM T-MOBILE BOTHELL OFFICE 1. TURN LEFT TO AN RAMP ONTO I-5 AND TOWARD RENTON 9.1 MI 2. TAKE I-5 TO I-90 EXIT 110N AND TAKE I-90 TOWARD REDMOND 8.3 MI 3. MERGE ONTO WA-200 E. J. BR 4. TAKE THE NE 40TH ST EXIT 6.4 MI 5. TURN RIGHT AT NE 40TH ST 6.9 MI  APPROX 16.4 MI SE DISTANCE: 14.3 MILES APPROXIMATE TRAVEL TIME: 19 MINUTES	<b>CONSTRUCTING ENGINEER</b> B. J. THOMAS P.E. 7607 80TH AVE NE MARYSVILLE, WA 98270 MOBILE P: 206-851-1106	<b>CONSTRUCTION PROJECT MANAGER</b> TELECOM/PC/E SHEILA GEEFFER 17607 NORTH 3913 PLYM N BOTHELL, WA 98011 PHONE P: 425-428-2438	<b>LEGAL DESCRIPTION</b> PROPOSED SUBJECT AREA IS WITHIN PUBLIC RIGHT-OF-WAY OF NE 40TH STREET.	APPROVE BY: OWNER: DATE: PROGRAM MANAGER: DATE: ENGINEER: DATE: CONSTRUCTION: DATE: ZONING: DATE: L.L.S.M.G.: DATE: ENGINEERS: DATE:  CALL 3 WORKING DAYS BEFORE YOU GO 1-800-424-5555 UTILITY ENGINEERING LOCATION CENTER (E. 17th & W. 9th)  1-800-424-5555 2100 1ST AVE SEATTLE, WA 98101 PHONE: 206-461-4141

## T-Mobile

**PROJECT INFORMATION:**  
**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE02354B**  
 IN ROW ADJACENT TO 16800 NE 40TH ST  
 REDMOND, WA 98052

**ISSUED FOR:**  
**BUILDING PERMIT**

**REVISION HISTORY:**

No.	DATE	DESCRIPTION	CHK. BY	APP. BY
1	6/29/06	REV. AZIMUTH CHANGE	B.J.	L.C.
2	6/29/06	TREE NOTE ADDED	B.J.	L.C.
3	5/26/06	MINOR REV. PER REVISIONS	B.J.	L.C.
4	4/24/06	ADD NO SEPARATION EQUIPMENT & PSE POLE	B.J.	L.C.
5	4/20/06	UPDATE TELCO ROUTING PLAN & ADD 2ND CABINET	B.J.	L.C.
6	02/02/06	SURVEY UPDATED TELCO ROUTING UPDATED	B.J.	L.C.
7	1/4/06	REV PER PSE COMMENTS	B.J.	L.C.
8	1/4/06	REV PER PRELIM	B.J.	L.C.

**PLANS PREPARED BY:**  
**B. J. THOMAS, P.E.**  
 7607 80TH AVE NE  
 MARYSVILLE, WA 98270  
 206-851-1106

**DRAWN BY:** CHL. **BY:** CAPP. **BY:**

AAL      BJ      AM

**LICENSE:**

**EQUIPMENT:**  
 AN RACK CABINET LOCATED AT BOTTOM OF A 7' POLE. THE FACILITY WILL INCLUDE WOOD UTILITY POLE & ANTENNAS WITHIN A 16' CANISTER AT TOP.

**DRAWING INFORMATION:**  
 DO NOT RE-PRINT OR REPRODUCE. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND APPROVE FOUNDATIONS OF ANY FOUNDATIONS AND FOUNDATIONS. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH IS RELATED TO NAME D LISTED IS STRICTLY PROHIBITED.

**DRAWING TITLE:**  
**TITLE SHEET**

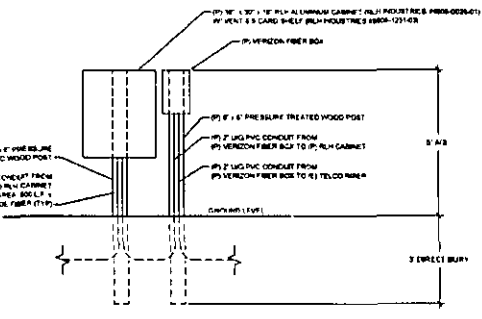
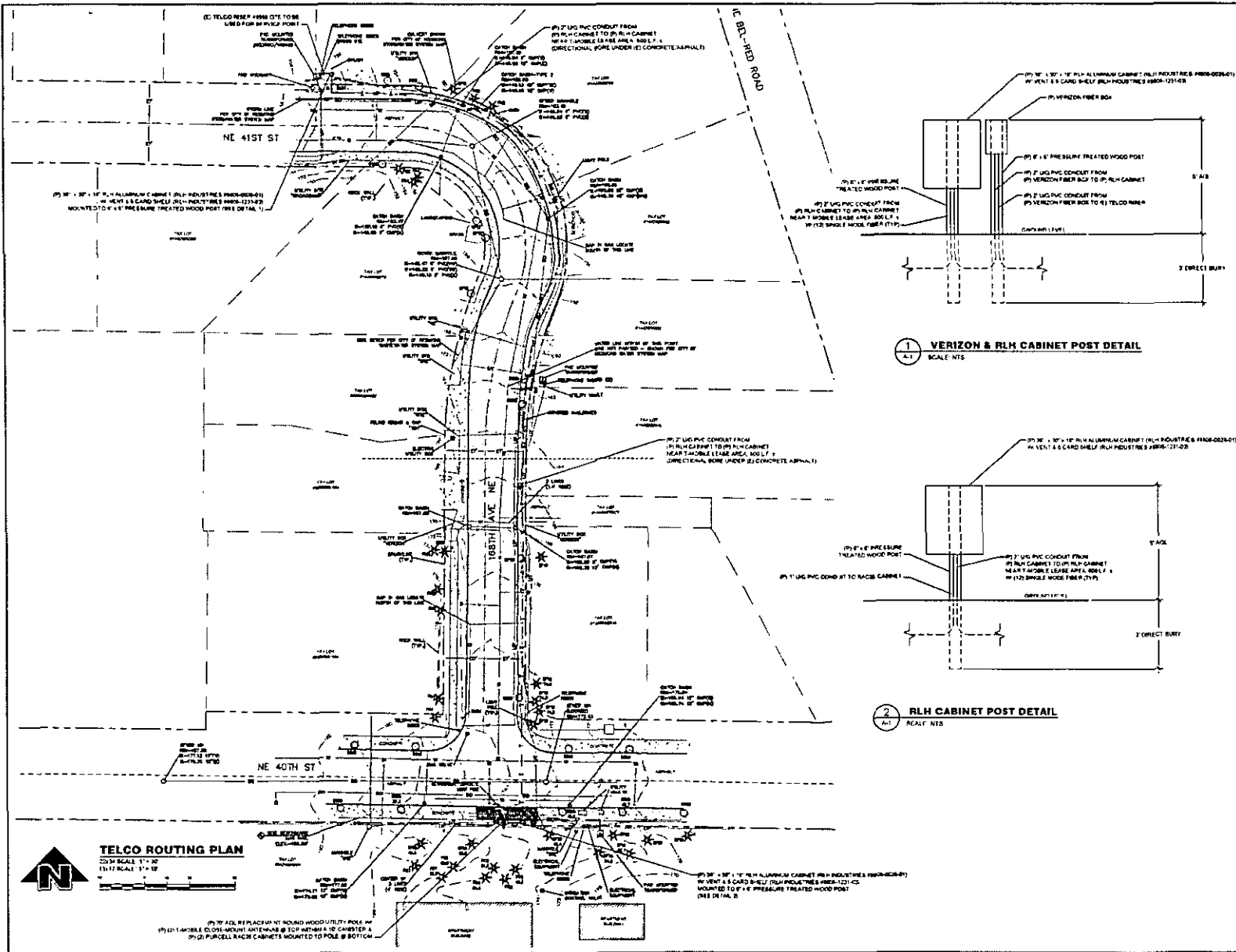
**DRAWING NUMBER:**  
**T-1**

Ordinance No. 2847  
AM No. 12-033

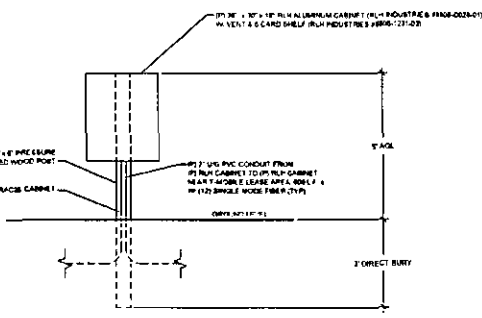
Page 1 of 17







1 VERIZON & RLM CABINET POST DETAIL  
SCALE NTS



2 RLM CABINET POST DETAIL  
SCALE NTS

**T-Mobile**

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**PROJECT INFORMATION:**

**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE02354B**  
IN ROW ADJACENT TO 18000 NE 40TH ST  
REDMOND, WA 98082

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**ISSUED FOR:**

**BUILDING PERMIT**

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**REVISION HISTORY:**

NO.	DATE	DESCRIPTION	CHKD. BY:	APPV. BY:
10	9/30/10	REV. ALTHOUGH CHANGE	B.T.	L.C.
12	4/28/10	TREE NOTE ADDED	B.T.	L.C.
14	5/26/09	MINOR REV. PER FIELD NOTES	B.T.	L.C.
16	4/28/09	ADD 10' SEPARATION FOR 40' NE 40TH POLE	B.T.	L.C.
17	4/28/10	UPDATE TELCO ROUTING PLAN & ADD 2ND CABINET	B.T.	L.C.
18	01/10/10	SURVEY UPDATED TELCO ROUTING UPDATED	B.T.	L.C.
19	3/4/09	REV. PER PSE CORRECT NTS	B.T.	L.C.
20	3/4/09	REV. PER FIELD NOTES	B.T.	L.C.

---

**PLANS PREPARED BY:**

**B. J. THOMAS, P.E.**  
**7607 BOTH AVE NE**  
**MARYSVILLE, WA 98270**  
**206-851-1106**


---

**DRAWN BY:** CHL **BY:** APPV. BY:

AAL      B.J.      AB

---

**LICENSURE:**



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**EQUIPMENT:**

AS EACH CABINET LOCATED AT BOTTOM OF A 70' POLE REPLACE WITH ROUND WOOD UTILITY POLE & ANTENNAS WITHIN A 10' CABINET AT TOP.

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**DRAWING INFORMATION:**

DO NOT REPLY DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS THE PROPERTY OF TELCO. ANY USE OR DISCOMBINATION THEREOF WITHOUT THE WRITTEN CONSENT OF TELCO IS STRICTLY PROHIBITED.

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**DRAWING TITLE:**

**TELCO ROUTING PLAN**

---

**DRAWING NUMBER:**

**A-1**

C:\Projects\2010\02354B\Drawings\A-1.dwg  
 AM No. 12-033



VICINITY MAP  
NOT TO SCALE

**PARCELS NUMBER:**  
IN ROW ADJACENT TO 24258824

**LEGAL DESCRIPTION:**  
PROPOSED SUBJECT AREAS WITHIN PUBLIC RIGHT-OF-WAY OF NE 40TH STREET.

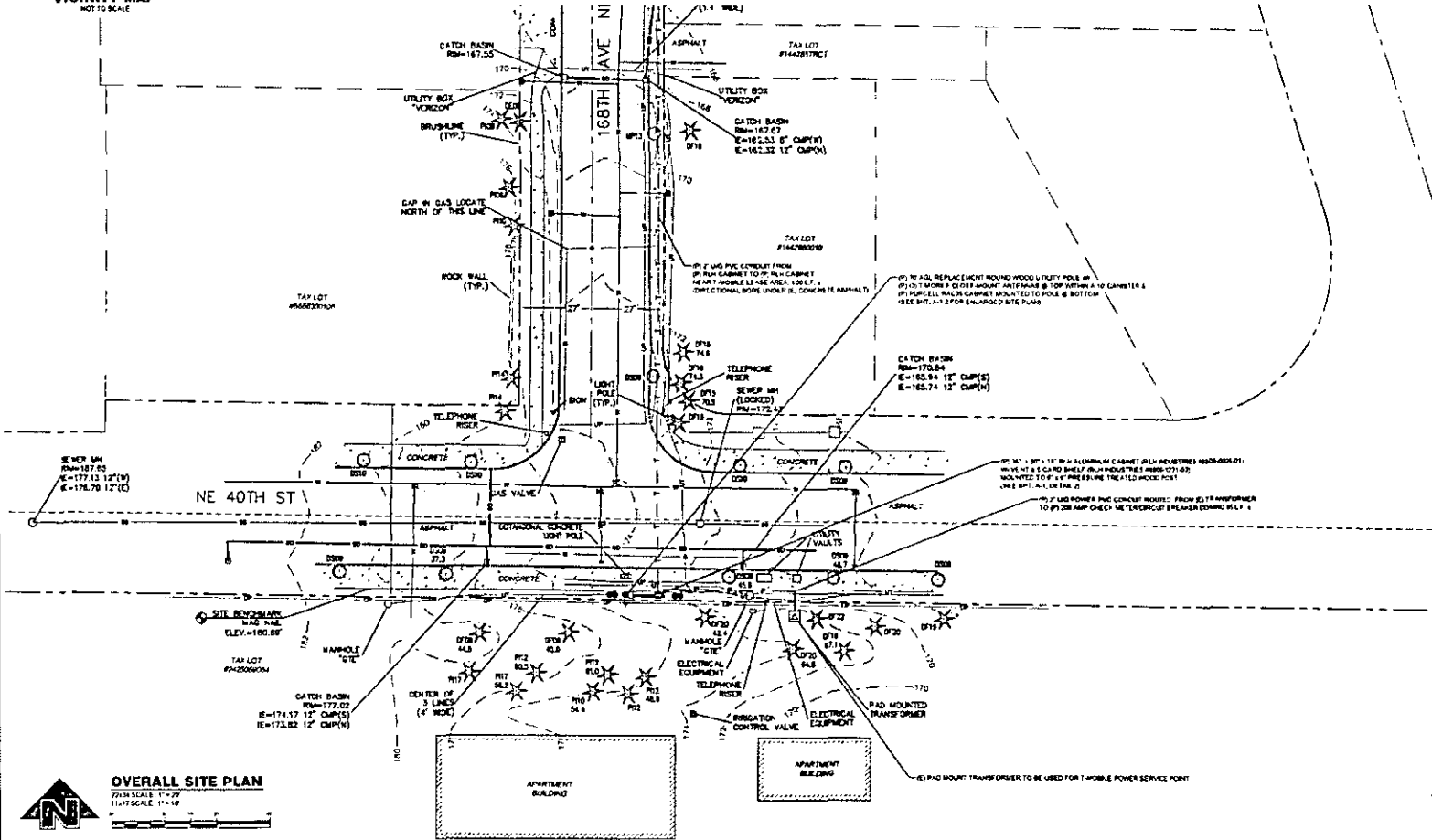
**ANTENNA PAINTING:**

ALL PROPOSED AND FUTURE ANTENNA ATTACHMENTS SHALL BE PAINTED A COLOR THAT IS SIMILAR TO BRACK OF REPLACEMENT WOOD OLIVE/AM UTILITY POLE.

**SPACING QUANTITIES:**

17 CUBIC YARDS ± FOR OLLULAM FOUNDATION & SITE PREP.

NOTE:  
NO TREES WILL BE REMOVED.



**OVERALL SITE PLAN**  
2024 SCALE: 1" = 20'  
11/17/24 SCALE: 1" = 10'

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**PROJECT INFORMATION:**

**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE02354B**  
IN ROW ADJACENT TO 16800 NE 40TH ST  
REDMOND, WA 98052

---

ISSUED FOR:  
**BUILDING PERMIT**

---

REVISION HISTORY:

NO.	DATE	DESCRIPTION	CHK. BY	APPV. BY
10	8/22/24	REV. ALZABETH CHANON	BJT	LC
11	8/29/24	TITLE NOTE ADDED	BJT	LC
12	9/26/24	MINOR REV. PER HEADLINE	BJT	LC
13	4/28/25	ADD UP SEPARATION EQUIPMENT TO POLE	BJT	LC
14	4/29/25	UPDATE TELECOM PARTS PLAN & ADD PND CABINET	BJT	LC
15	8/31/25	SURVEY UPDATED TELECOM PARTS UPDATED	BJT	LC
16	8/4/25	REV PER PND CABINET	BJT	LC
17	8/4/25	REV PER HEADLINE	BJT	LC

---

PLANS PREPARED BY:

**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

---

DRAWN BY: **CHL** BY: **APPV.** BY:

AAL	BJT	AM
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LICENSURE:

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EQUIPMENT:

AN RACK CABINET LOCATED AT BOTTOM OF A 20' TALL REPLACEMENT ROUND WOOD UTILITY POLE & ANTENNA WITHIN A 16' CLEARANCE AT TOP.

---

DRAWING INFORMATION:

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS REVIEWS OF THE DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE CONSULTANT. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH IS RELATED TO THE PROJECT IS STRICTLY PROHIBITED.

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DRAWING TITLE:

**SITE PLAN**

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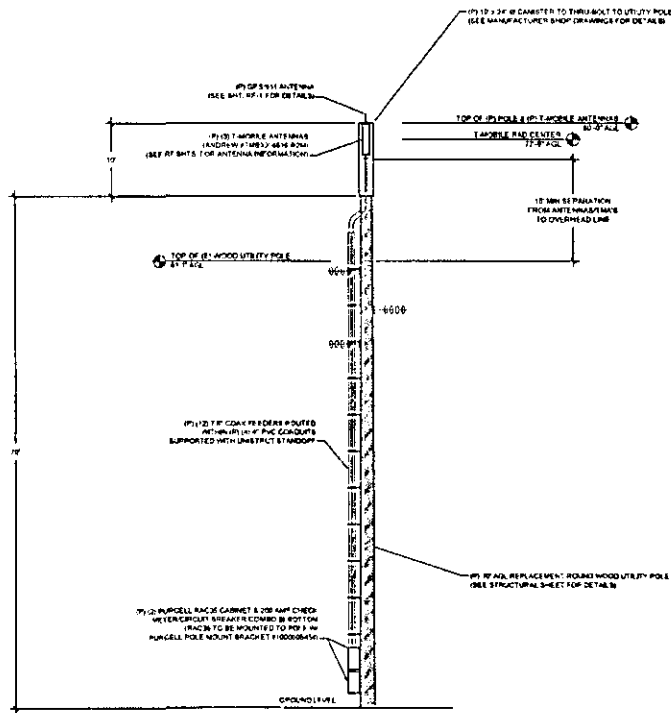
DRAWING NUMBER:

**A-1.1**

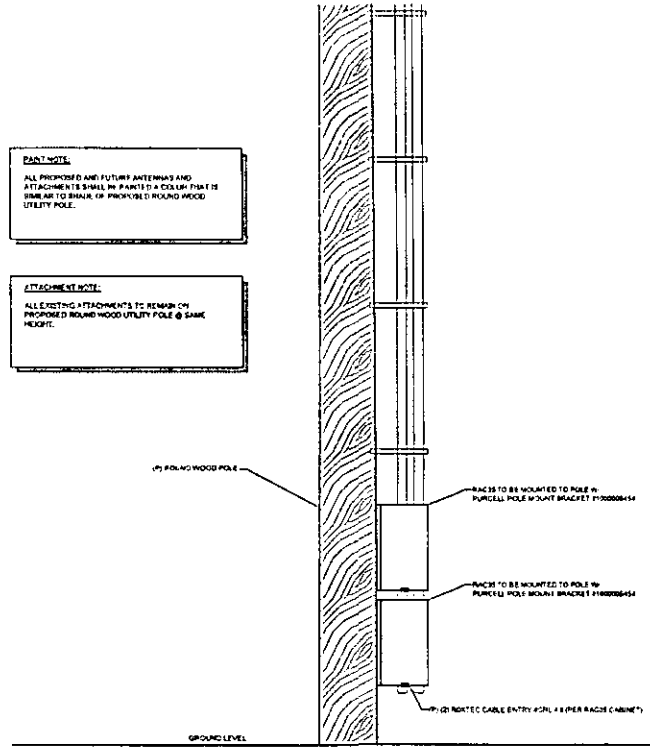
Ordinance No. 2647  
AM No. 12-033

EXHIBIT A  
Page 4 of 17





1 NORTH ELEVATION  
SCALE: NTE



2 RAC35 ELEVATION  
SCALE: NTE

**PAINT NOTE:**  
ALL PROPOSED AND EXISTING ANTENNAS AND ATTACHMENTS SHALL BE PAINTED A COLOR THAT IS SIMILAR TO SHANK OR PROVIDED ROUND WOOD UTILITY POLE.

**ATTACHMENT NOTE:**  
ALL EXISTING ATTACHMENTS TO REMAIN ON PROPOSED ROUND WOOD UTILITY POLE @ SAME HEIGHT.

**PROJECT INFORMATION:**  
**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE02354B**  
 IN ROW ADJACENT TO 16800 NE 40TH ST  
 REDMOND, WA 98062

**ISSUED FOR:**  
**BUILDING PERMIT**

**REVISION HISTORY:**

NO.	DATE	DESCRIPTION	ENCL. APPROV. BY:	BY:	LC
1	03/05/19	REV. AS-BUILT CHANGE	BIT	LC	
2	02/05/20	TITLE NOTE ADDED	BIT	LC	
3	02/05/20	SANCTION REV. PER NEEDS	BIT	LC	
4	02/05/20	ADD NO. 35 PARAGRAPH TO EQUIPMENT ATTACHMENT	BIT	LC	
5	02/05/20	UPDATE TELECO ROUTING PLAN & ADD 2ND CABINET	BIT	LC	
6	02/18/2020	SUPPLY UPDATED TELECO ROUTING UNDATED	BIT	LC	
7	04/20/20	REV. PER PSE COMMENTS	BIT	LC	
8	04/20/20	REV. PER REELINES	BIT	LC	

**PLANS PREPARED BY:**  
**B. J. THOMAS, P.E.**  
 7607 80TH AVE NE  
 MARYSVILLE, WA 98270  
 206-851-1106

**DRAWN BY:** AAL    **CHK. BY:** BJ    **APPV. BY:** AM

**LICENSE:**

**EQUIPMENT:**  
 AN RAC35 CABINET IS LOCATED AT BOTTOM OF A 70' TALL REPLACEMENT ROUND WOOD UTILITY POLE & ANY OTHERS WITHIN A 10' CANISTER AT TOP.

**DRAWING INFORMATION:**  
 DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADJUST CORRECTIONS FOR ANY ERRORS AND OMISSIONS. ALL PREVIOUS EDITIONS OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN WHICH IS RELATED TO MARKED CLIENT IS STRICTLY PROHIBITED.

**DRAWING TITLE:**  
**SITE ELEVATION**

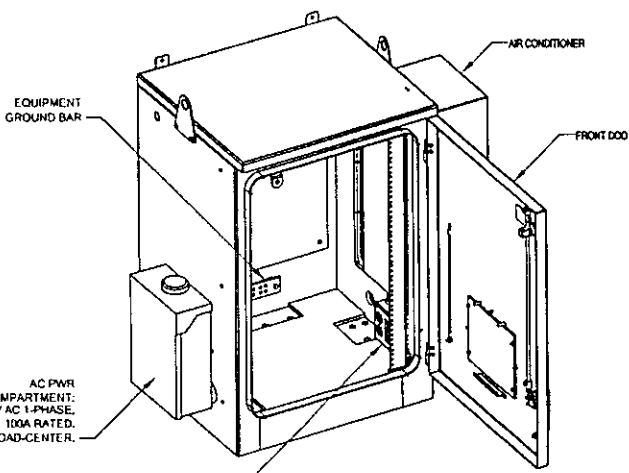
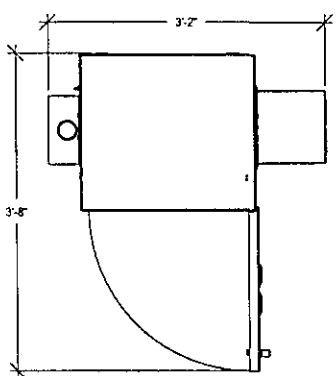
**DRAWING NUMBER:**  
**A-2**

Ordinance No. 2847  
AM No. 12-033

Page 6 of 17

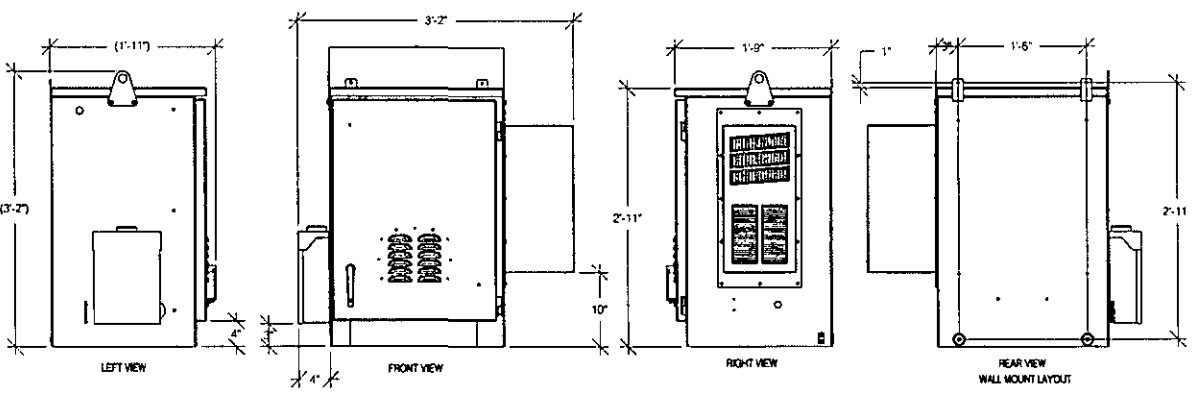


Physical Dimensions	
Height:	35 1/4 x 28 1/4 x 26 1/4
Width:	32 1/4 x 28 1/4 x 26 1/4
Weight:	145 lbs. (cabinet only)
Construction Materials	
Material:	Aluminum (3 aluminum, 1 stainless steel), full size steel hardware
Finish:	12 Anodized, 18 in. light gray, TFC polypropylene mesh
Door/End Panel Construction	
Door:	2 in. frame pattern provides 72 sq. in. of airflow
Lock:	3 in. lock (left and right) to lock (provided by user)
Equipment Mounting	
Rack Space:	17 RU (1.5 in. x 1.5 in. rack units)
Environmental Configuration Options	
Cooling:	Self-contained air conditioning up to 2,000 BTU/hr and 3000 BTU/hr in 115 or 230 VAC 50/60 Hz line with 100% humidity
Heating:	3.5 kW heater with separate thermostat
Exhaust:	Exhaust fan
AC Filter:	1" thick, standard, multi-layered pleated/foam/charcoal
Standard Components	
AC Receptacle:	Four outlets provided for receptacles (22 available)
Grounding Lug:	Two for lab use to allow transfer of grounded chassis
Grounding Lug:	One for chassis grounding lug
Wire Straps:	Four 1/2" x 1/4" on cabinet interior, two 2" x 1/4" on top, two 2" x 1/4" on cabinet interior
Power Terminals:	Four 1/2" dia. terminals on bottom
Optional Configurations	
Ground Pad:	2 stainless steel feet on ground pad
Door Mount Kit:	Kit for door and equipment for mounting to pole
Term Panel:	20" H x 22" W 1/2" deep panel (22 available, 20" H x 22" W panel also available for use with rack units for mounting on side with 1/2" depth)
Lock Alarm:	Lock alarm device for use with monitoring log
Lock Alarm:	8 standard lock under a module
Agency Information	
Logo:	1 in. logo only
Logo:	1 in. logo only



**RAC35 CABINET SPECIFICATIONS**  
SCALE: NTS

**EQUIPMENT WEIGHT**  
(1) RAC35 CABINET: **65 LBS**  
(4) RADIO MODULES: **185.2 LBS**  
**TOTAL EQUIPMENT WEIGHT: 250.2 LBS**



**RAC35 CABINET**

T-Mobile

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**PROJECT INFORMATION:**  
**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE02354B**  
 1W ROW ADJACENT TO 16800 NE 40TH ST  
 REDMOND, WA 98052

---

**ISSUED FOR:**  
**BUILDING PERMIT**

---

**REVISION HISTORY:**

REV.	DATE	DESCRIPTION	CHK.	APPV.
			BY	BY
1	6/20/18	REV. AS-BUILT CHANGE	BLT	EG
2	6/29/18	TREE NOTE ADDED	BLT	EG
3	6/29/18	IMPROV. REV. PER REVIEW	BLT	EG
4	6/29/18	FIELD OF OPERATION COMPONENT & PILE POLE	BLT	EG
5	6/29/18	UPDATE TELECO ROUTING PLAN & ADD 2ND CABINET	BLT	EG
6	8/16/2018	SUPPLY UPDATED TELECO ROUTING/UPDATED	BLT	EG
7	3/4/2020	REV PER P&E COMMENTS	BLT	EG
8	3/4/2020	REV PER REVIEW	BLT	EG

---

**PLANS PREPARED BY:**  
**B. J. THOMAS, P.E.**  
 7607 80TH AVE NE  
 MARYSVILLE, WA 98270  
 206-851-1106


---

**DRAWN BY:** CHK, BY: APPV. BY:

AAL      BJ      AM

---

**LICENSE:**



---

**EQUIPMENT:**  
 AN RAC35 CABINET LOCATED AT BOTTOM OF A 75' ACP IN PLACE AT NE CORNER OF UTILITY POLE & ANTENNAS WITHIN A 1W CABINET AT TOP.

---

**DRAWING INFORMATION:**  
 DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ABOVE CORRELATES OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR REPRODUCTION OTHER THAN THAT WHICH IS RELIANT TO THE CLIENT IS STRICTLY PROHIBITED.

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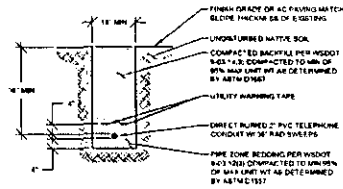
**DRAWING TITLE:**  
**BTS EQUIPMENT DETAILS**

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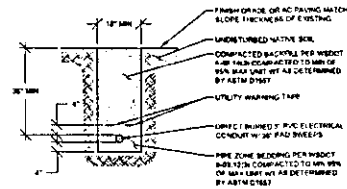
**DRAWING NUMBER:**  
A-3

Ordinance No. 2647  
AM No. 12-033

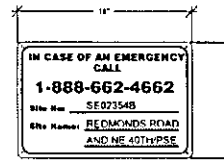
EXHIBIT A  
Page 7 of 17



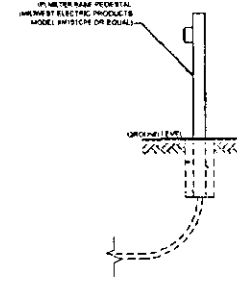
1 TELCO SERVICE TRENCH  
SCALE: NTS



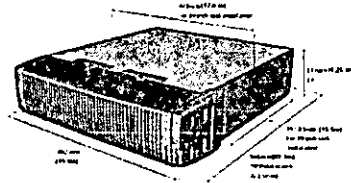
2 POWER SERVICE TRENCH  
SCALE: NTS



3 SITE SIGNAGE DETAIL  
SCALE: NTS



4 METER BASE PEDESTAL DETAIL  
SCALE: NTS



Model	Width [mm/ft]	Height [mm/ft]	Depth [mm/ft]	Weight [kg/lb]
System FCH	447/17.6	133/5.2	42/1.6	160/35.4
Radio FCH	447/17.6	133/5.2	42/1.6	160/35.4
AC Power/FMA + FMA	447/17.6 722/28	133/5.2 100/3.9	42/1.6 40/1.5	112/24.5 132/29.2
24 DC Power 120V	447/17.6	96/3.8	42/1.6	160/35.4
Sur. Support FCA + LTE + HSPA+/HSPA	966/29.3 447/17.6 447/17.6	186/7.5 178/7.0 133/5.2	42/1.6 40/1.5	28/6.4 440/97.7 20/44.1
120V	119/4.7	44/1.7	-	2/0.5

Model	Width [mm/ft]	Height [mm/ft]	Depth [mm/ft]	Weight [kg/lb]
Radio in Laptop	447/17.6	280/11.0	40/1.6	-
Battery 62 Ah	447/17.6	280/11.0	40/1.6	18.1/40.1
Battery 62 Ah	447/17.6	280/11.0	40/1.6	18.1/40.1
Power (FMA)	447/17.6	60/2.4	40/1.6	6.4/14.1
Power (FMA)	447/17.6	20/0.8	40/1.6	10/22
Quadband cabinet (FCA)	770/30.3	1450/57.1	770/30.3	60/132.3
Quadband cabinet (FCA)	770/30.3	1450/57.1	770/30.3	60/132.3
Quadband cabinet (FCA)	800/31.5	1800/70.9	800/31.5	60/132.3

6 NOKIA FLEXI SPECIFICATIONS  
SCALE: NTS

**STANDARD FEATURES:**

- Top and bottom covered PEVA or composite weatherproof design
- Preformed sealed, heavy duty construction
- Fine treated and painted 316 stainless steel hardware and bottom base board
- Hinged door with limit stop
- Temperature resistant 100% door seal
- Lightweight aluminum power
- 8 stainless ground bar, 1/2" x 1/4"
- Bottom lockout, 3/4" x 1/4"
- Weather proofed base
- Frame mounting feet and attaching hardware
- Power corded industry approved grey
- Exclusive lifetime warranty

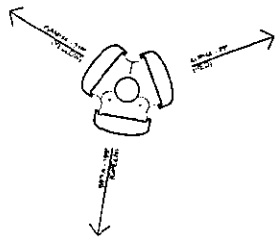
**STANDARD FEATURES:**

- Top and bottom covered PEVA or composite weatherproof design
- Preformed sealed, heavy duty construction
- Fine treated and painted 316 stainless steel hardware and bottom base board
- Hinged door with limit stop
- Temperature resistant 100% door seal
- Lightweight aluminum power
- 8 stainless ground bar, 1/2" x 1/4"
- Bottom lockout, 3/4" x 1/4"
- Weather proofed base
- Frame mounting feet and attaching hardware
- Power corded industry approved grey
- Exclusive lifetime warranty

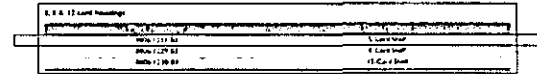
Part No.	Size (mm/ft)	Weight (kg/lb)
8004-0818-01	18" x 18" x 18"	17.75 / 39.1
8004-0011-01	18" x 18" x 18"	17.75 / 39.1
8004-0012-01	18" x 18" x 18"	17.75 / 39.1
8004-0013-01	18" x 18" x 18"	17.75 / 39.1
8004-0014-01	18" x 18" x 18"	17.75 / 39.1
8004-0015-01	18" x 18" x 18"	17.75 / 39.1
8004-0016-01	18" x 18" x 18"	17.75 / 39.1
8004-1381-01	24" x 24" x 18"	23.75 / 52.3
8004-0018-01	24" x 24" x 18"	23.75 / 52.3
8004-0019-01	24" x 24" x 18"	23.75 / 52.3
8004-0020-01	24" x 24" x 18"	23.75 / 52.3
8004-0021-01	24" x 24" x 18"	23.75 / 52.3
8004-0022-01	24" x 24" x 18"	23.75 / 52.3
8004-0023-01	24" x 24" x 18"	23.75 / 52.3
8004-0024-01	24" x 24" x 18"	23.75 / 52.3
8004-0025-01	24" x 24" x 18"	23.75 / 52.3
8004-0026-01	24" x 24" x 18"	23.75 / 52.3
8004-1294-01	24" x 24" x 18"	23.75 / 52.3
8004-0027-01	24" x 24" x 18"	23.75 / 52.3
8004-0028-01	24" x 24" x 18"	23.75 / 52.3
8004-0029-01	24" x 24" x 18"	23.75 / 52.3
8004-0030-01	24" x 24" x 18"	23.75 / 52.3
8004-0031-01	24" x 24" x 18"	23.75 / 52.3
8004-0032-01	24" x 24" x 18"	23.75 / 52.3
8004-0033-01	24" x 24" x 18"	23.75 / 52.3
8004-0034-01	24" x 24" x 18"	23.75 / 52.3
8004-0035-01	24" x 24" x 18"	23.75 / 52.3
8004-0036-01	24" x 24" x 18"	23.75 / 52.3

Standard options include stainless steel with thermoplastic, heavy duty construction, fine treated and painted 316 stainless steel hardware and bottom base board, hinged door with limit stop, temperature resistant 100% door seal, lightweight aluminum power, 8 stainless ground bar, 1/2" x 1/4", bottom lockout, 3/4" x 1/4", weather proofed base, frame mounting feet and attaching hardware, power corded industry approved grey, exclusive lifetime warranty.

7 RLH CABINET SPECIFICATION  
SCALE: NTS



5 ANTENNA AZIMUTH DETAIL  
SCALE: NTS



8 5 CARD SHELF SPECIFICATION  
SCALE: NTS

**PROJECT INFORMATION:**

**REDMONDS ROAD & NE 40TH/PSE/ROW**  
SE023548  
IN ROW ADJACENT TO 16800 NE 40TH ST  
REDMOND, WA 98052

**BUILDING PERMIT**

**REVISION HISTORY:**

NO.	DATE	DESCRIPTION	CHG. APPV.	BY	DATE
1	8/20/08	REV. ALMATH CHANGE	BLT	LC	
2	8/20/08	TREL NOTE ADDED	BLT	LC	
3	8/20/08	IMPOR REV. PER REFERENCE	BLT	LC	
4	8/20/08	ADD 10 SEPARATION COLUMN AT 1/4" POLE	BLT	LC	
5	8/20/08	UPDATE TELCO ROW PLAN & ADD 2ND CABINET	BLT	LC	
6	8/20/08	SUPPLY UPDATED TELCO HOLDING UPDATED	BLT	LC	
7	8/20/08	REV PER PRE COMMENTS	BLT	LC	
8	8/20/08	REV PER PRE COMMENTS	BLT	LC	

**PLANS PREPARED BY:**

**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

**DRAWN BY: CHK. BY: APPR. BY:**

AAL BJ AM

**LICENSE:**

**EQUIPMENT:**

AN ACDC CABINET LOCATED AT BOTTOM OF A 10' A/C. REPLACE WITH RICHARD WOOD UTILITY POLE & ANTENNAS WITH A 10' CABLELAR AT TOP.

**DRAWING INFORMATION:**

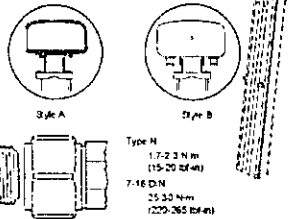
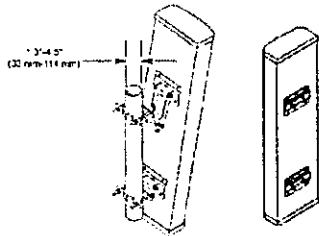
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**DRAWING TITLE:**

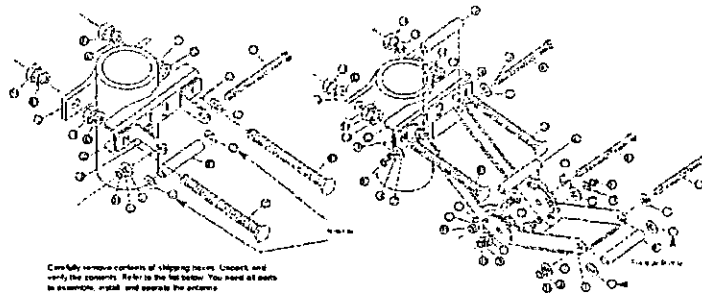
**GENERAL DETAILS**

**DRAWING NUMBER:**

**A-4**



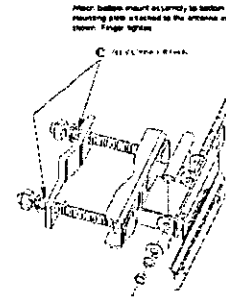
1 ANTENNA DETAIL  
A-5 N.T.S.



Carefully remove contents of shipping boxes. Unpack and verify the contents. Refer to the list below. You need all parts to assemble, install, and operate the antenna.

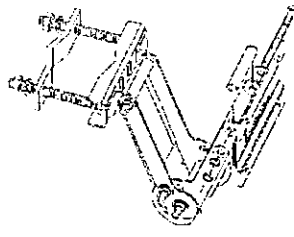
Quantity	Item Number (see illustrations above)	Andrew Part Number	Description
2	○	601553	Single arm
2	○	601256	Mounting clamp
2	○	601235-1	Bracket
2	○	601235-2	Bracket
1	○	601258	Label angle
1	○	600878-3	Spacer tube
4	○	100625-24	M6 hex washer (stainless steel)
2	○	600418-9	M6 x 1.75 x 25 mm large carriage bolt (stainless steel)
4	○	204009-8	M6 lock washer (stainless steel)
4	○	600418-10	M6 x 1.75 x 110 mm large hex head screw (stainless steel)
6	○	204001-18	M6 x 1.25 mm nut (stainless steel)
2	○	223244	Cover plate
8	○	600418-24	Large lock washer (stainless steel)
8	○	600401-21	M12 x 1.75 mm nut (stainless steel)
1	○	600419-12	M12 x 1.75 x 150 mm large carriage bolt (stainless steel)
1	○	601168	Mounting bracket (stainless steel)

2 PARTS LIST  
A-5 N.T.S.



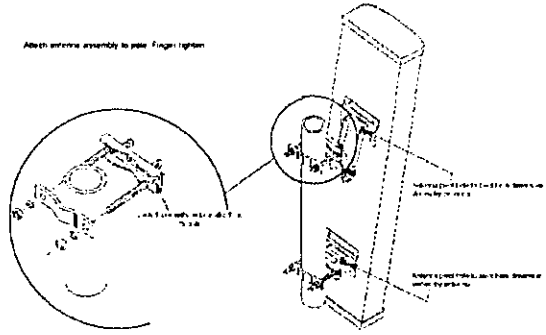
3 ANTENNA ASSEMBLY - STEP 1  
A-5 N.T.S.

Attach top mount assembly to top mounting plate attached to the antenna as shown. Fringe lights.



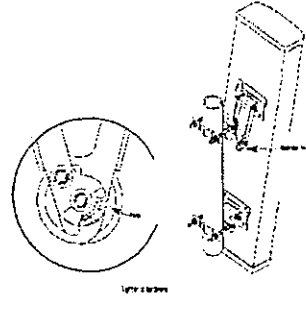
4 ANTENNA ASSEMBLY - STEP 2  
A-5 N.T.S.

Attach antenna assembly to pole. Fringe lights.



5 ANTENNA ASSEMBLY - STEP 3  
A-5 N.T.S.

Attach the label 6 at matches the pole top to pole side length of the antenna as shown. Fringe lights.

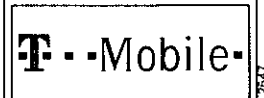


6 ANTENNA ASSEMBLY - STEP 4  
A-5 N.T.S.



**Andrew Corporation**  
 Telephone: 708-346-3300 Customer Service: 24 hours U.S.A. • Canada • Mexico: 1-800-255-1478  
 10320 West 158th Street PA: Allentown, PA 18106 U.S.A. • Fax: 610-255-1478  
 Grand Park, IL, U.S.A. 60142 Internet: <http://www.andrew.com> Other Europe: +44 1582 782412 Copyright © 2002 by Andrew Corporation

**Notice**  
 The installation, maintenance, or removal of an antenna requires qualified experienced personnel. Andrew Corporation's instructions are written for such experienced personnel. Andrew Systems should be installed, used, maintained, or removed only by qualified personnel to verify proper installation, maintenance, and condition of equipment.  
 Andrew Corporation, its agents, and its representatives are not responsible for the results of improper or unsafe installation and/or maintenance practices.



**PROJECT INFORMATION:**  
**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE02354B**  
 IN ROW ADJACENT TO 18800 NE 40TH ST  
 REDMOND, WA 98052

**ISSUED FOR:**  
**BUILDING PERMIT**

**REVISION HISTORY:**

NO.	DATE	DESCRIPTION	CHK.	APPV.
1	03/20/10	REV. AS-BUILT CHANGE	BJT	LC
2	02/02/10	TREE NOTE ADDED	BJT	LC
3	02/02/10	SMOOP REV. PER REDMOND	BJT	LC
4	02/02/10	ADD TO SEPARATION EQUIPMENT IN THE POLE	BJT	LC
5	02/02/10	UPDATE TELECOM MOUNTING PLAN & ADD 2ND CABLE T	BJT	LC
6	03/11/2010	SUPPLY UPDATED TELECOM MOUNTING PLAN	BJT	LC
7	04/20/08	REV PER PSE COMMENTS	BJT	LC
8	04/20/08	REV PER PSE COMMENTS	BJT	LC

**PLANS PREPARED BY:**  
**B. J. THOMAS, P.E.**  
 7607 80TH AVE NE  
 MARYSVILLE, WA 98270  
 206-851-1106

**DRAWN BY:** AAL **CHK. BY:** BJ **APPV. BY:** AM



**EQUIPMENT:**  
 AN RANGIS CABINET LOCATED AT BOTTOM OF A POLE. REPLACE MOUNTING HORNWOOD UTILITY POLE & ANTENNAS WITHIN A 10' CIRCUMFERENCE.

**DRAWING INFORMATION:**  
 DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CLIENTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS EDITIONS OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY IN NATURE. ANY USE OR REPRODUCTION OF THIS INFORMATION IS STRICTLY PROHIBITED.

**DRAWING TITLE:**

**ANTENNA ASSEMBLY DETAILS**

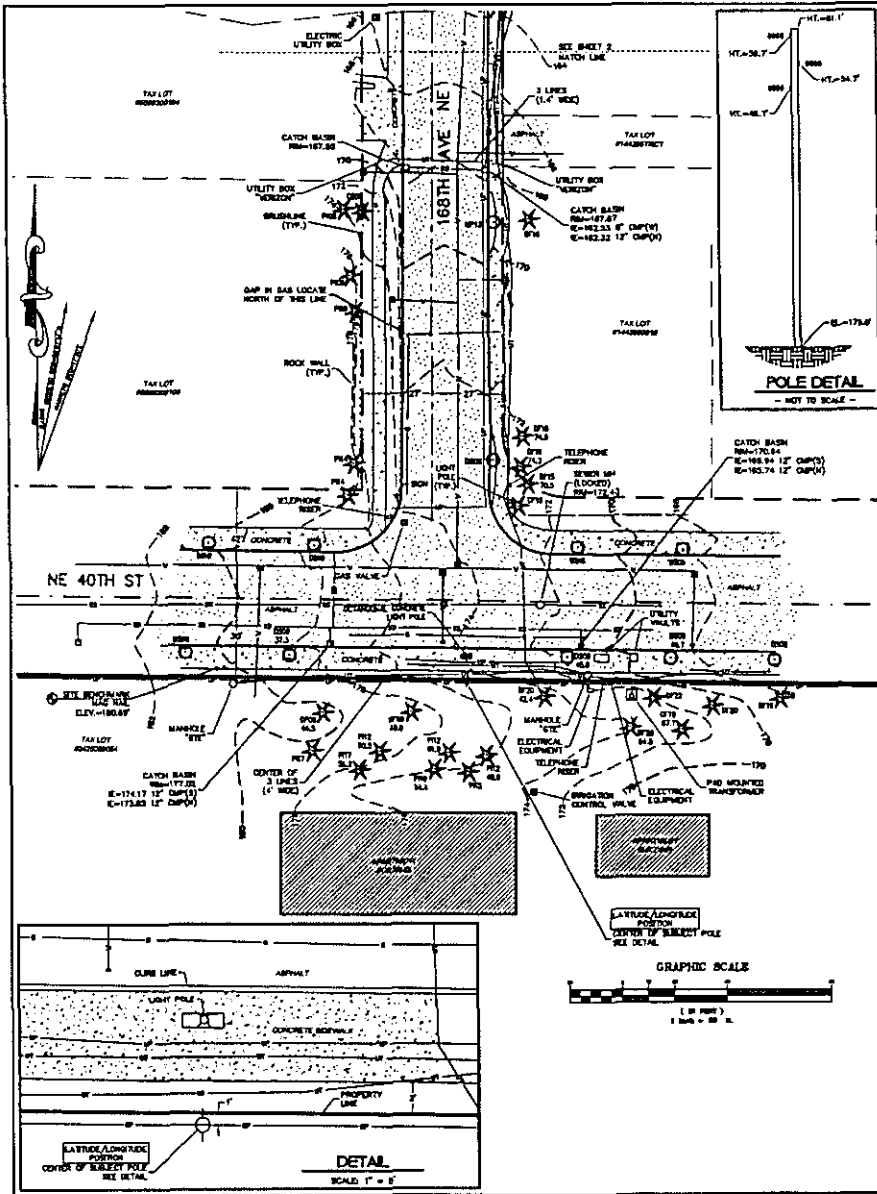
**DRAWING NUMBER:**

**A-5**

Ordinance No. 2547  
AM No. 12-033

Page 9 of 17

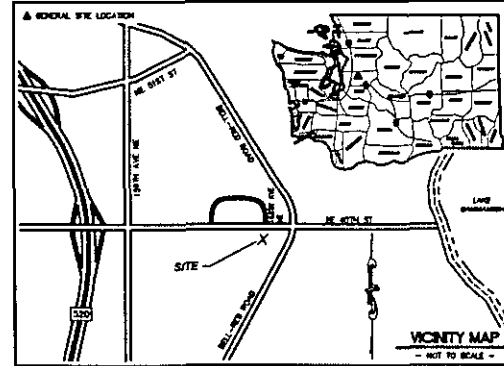
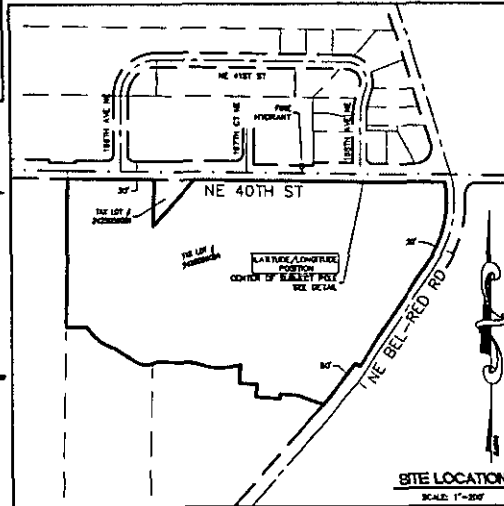




**LEGAL DESCRIPTION**  
PROPOSED SUBJECT AREA IS WITHIN PUBLIC RIGHT-OF-WAY OF NE 40TH STREET.

**EASEMENTS** CORRESPOND WITH ITEM NUMBER IN "SCHEDULE D" OF TITLE REPORT.  
THE FOLLOWING EASEMENTS FROM THE REFERENCED TITLE REPORT CONTAIN SUFFICIENT INFORMATION TO BE EXPICED ON THE PLAN. OTHER EASEMENTS OR ENCUMBRANCES, IF ANY, MAY AFFECT THE PROPERTY, BUT LACK SUFFICIENT INFORMATION TO BE SHOWN.  
 PROPOSED SUBJECT AREA IS WITHIN PUBLIC RIGHT-OF-WAY OF NE 40TH STREET.

**NOTES**  
1) PROPOSED SUBJECT AREA IS WITHIN PUBLIC RIGHT-OF-WAY OF NE 40TH STREET.  
2) FIELD WORK CONDUCTED IN DECEMBER, 2008.  
3) BASIS OF BEARING: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE (NAD83).  
4) UNDERGROUND UTILITIES SHOWN HEREON, IF ANY, WERE OBTAINED FROM SURFACE EVIDENCE AND/OR UTILITY COMPANY RECORDS. CRITICAL LOCATIONS SHOULD BE VERIFIED PRIOR TO DESIGN AND CONSTRUCTION.



**LEGEND**

- SUBJECT BOUNDARY LINE
- RIGHT-OF-WAY CENTERLINE
- RIGHT-OF-WAY LINE
- ADJACENT BOUNDARY LINE
- SECTIONAL BREAKDOWN LINE
- UNDEREAD POWER LINE
- BURIED POWER LINE
- BURIED GAS LINE
- UNDEREAD TELEPHONE LINE
- BURIED TELEPHONE LINE
- BURIED WATER LINE
- BURIED SANITARY SEWER
- BURIED STORM DRAIN
- BITUM LINE/FLYING LINE
- ROCK RETAINING WALL
- VEGETATION
- CHAIN LINK FENCE
- WOOD FENCE

- TRANSFORMER
- LIGHT STANDARD
- POWER VAULT
- UTILITY BOX
- UTILITY POLE
- POLE GUY WIRE
- GAS VALVE
- GAS METER
- TELEPHONE VAULT
- TELEPHONE REEF
- FIRE HYDRANT
- GATE VALVE
- WATER METER
- FIRE STAND PIPE
- CATCH BASIN, TYPE I
- CATCH BASIN, TYPE II
- BOX
- BOLLARD
- MAIL BOX
- 22.5' SPOT ELEVATION

**NOTE:**  
1) ALL ELEVATIONS SHOWN ARE ABOVE MEAN SEA LEVEL (MSL) AND ARE REFERENCED TO THE HANCOCK DATUM.  
2) ALL TOWER, WIRE AND PERFORMANCE HEIGHTS ARE APPROXIMATED AT 1.5' TO 4" ABOVE GROUND LEVEL. TREES SHOWN ARE FOR REFERENCE ONLY AND OTHER TREES AND VEGETATION MAY EXIST.

**NOTE:**  
TREE GUY LINES ARE NOT TO SCALE. TREE SYMBOLS REPRESENT TREE LOCATION ONLY. TRUNK DIAMETERS WERE APPROXIMATED AT 1.5' TO 4" ABOVE GROUND LEVEL. TREES SHOWN ARE FOR REFERENCE ONLY AND OTHER TREES AND VEGETATION MAY EXIST.

**COORDINATE DATA AT CENTER OF SUBJECT POLE:**  
NAD 83  
LAT = 47°07'45.81" N  
LONG = 122°07'04.41" W

**BOUNDARY DISCLAIMER**  
THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY. SUBJECT AND ADJACENT PROPERTY LINES ARE EXPICED USING FIELD-FOUND EVIDENCE AND RECORD INFORMATION.

**CAUTION!**  
UNDERGROUND UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION FROM THIS PLAN IS INCOMPLETE. STATE LAW REQUIRES THAT CONTRACTOR CONTACT THE ONE-CALL UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE STARTING ANY CONSTRUCTION.  
1-800-424-5555

**REVISIONS**

NO.	DATE	DESCRIPTION
1	12/30/08	ISSUED FOR PERMIT

**REVISIONS**  
12/30/08  
12/30/08  
12/30/08

**DATE:** 12/30/08



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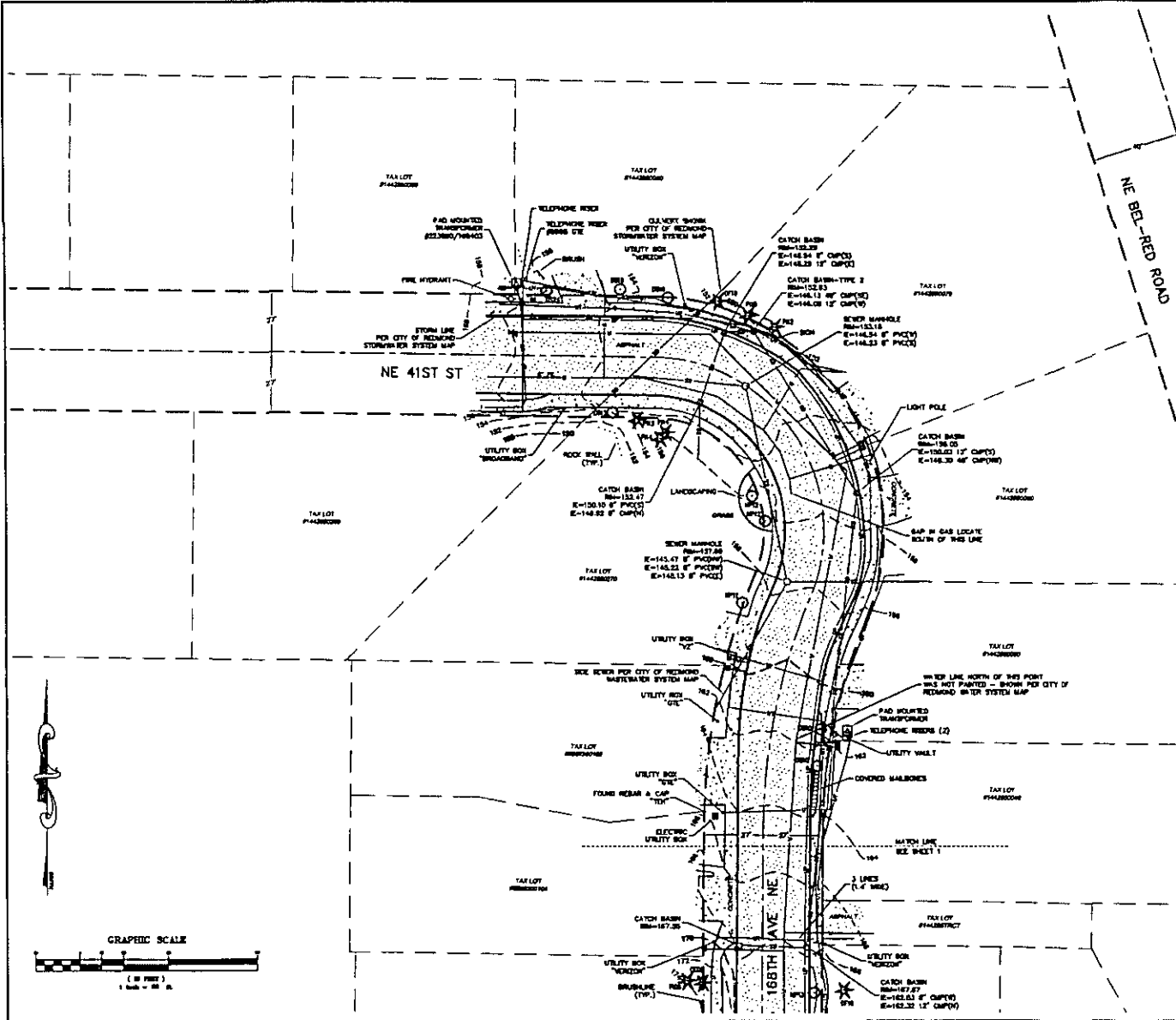
**REVISIONS**

NO.	DATE	DESCRIPTION
1	12/30/08	ISSUED FOR PERMIT

REDMONDS ROAD AND NE 40TH  
SECTION 24  
EXISTING SITE SURVEY  
SEC 24, TWP 25 N, RNG 5 E, WM

**FLD. DREW JAR/JW**  
FLD. NOOK: 208/21  
**DRAWN BY: MAC/CD**  
JOB # 01808.282  
DATE: 12/30/08

**C1**  
1 OF 2



**LEGEND**

- SUBJECT BOUNDARY LINE
- RIGHT-OF-WAY CENTERLINE
- RIGHT-OF-WAY LINE
- ADJACENT BOUNDARY LINE
- SECTIONAL BREAKDOWN LINE
- OVERHEAD POWER LINE
- BURIED POWER LINE
- BURIED GAS LINE
- OVERHEAD TELEPHONE LINE
- BURIED TELEPHONE LINE
- BURIED WATER LINE
- BURIED SANITARY SEWER
- BURIED STORM DRAIN
- OPEN LINE/FLOW LINE
- ROCK RETAINING WALL
- VEGETATION LINE
- CHAIN LINK FENCE
- WOOD FENCE
- BURIED WIRE/PIPE FENCE
- PIRE HYDRANT
- GATE VALVE
- WATER METER
- FIRE STAND PIPE
- CATCH BASIN, TYPE 1
- CATCH BASIN, TYPE 2
- CATCH BASIN, TYPE 3
- MANHOLE
- POLE
- POLE CITY WIRE
- GAS METER
- ROLLARD
- MAIL BOX
- TELEPHONE POLE
- 225.21 SPOT ELEVATION

**NOTE:**

- ALL ELEVATIONS SHOWN ARE ABOVE MEAN SEA LEVEL (AMSL) AND ARE REFERENCED TO THE HAYNES DATUM.
- ALL TOWER, TREE, AND APPROPRIATE HEIGHTS ARE ABOVE GROUND LEVEL (AGL) AND ARE ACCURATE TO ± 3 FEET OR 3% OF TOTAL HEIGHT, WHICHEVER IS GREATER.

**TREE LEGEND**

DECIDUOUS TREE

- ALB - ALBETON
- AM - AMERICAN
- BR - BRASSIA
- CH - CHERRY
- FR - FRAXINUS
- GL - GLABRUM
- GR - GRACIOSUS
- HA - HAMMILLI
- MA - MAHOGANI
- OR - OAK
- PL - PLATANUS
- PR - PRINCEPS
- QU - QUERCUS
- SP - SPINDLE
- TR - TRIFOLIUM
- TY - TYNDALE
- VA - VALENTI
- VI - VIRGINIAN
- WE - WEINMANNIA
- WH - WHITE
- WI - WINDY
- WO - WOOD
- YO - YOUNG

ENHANCED TREE

- EV - ENHANCED
- EV2 - ENHANCED 2
- EV3 - ENHANCED 3
- EV4 - ENHANCED 4
- EV5 - ENHANCED 5
- EV6 - ENHANCED 6
- EV7 - ENHANCED 7
- EV8 - ENHANCED 8
- EV9 - ENHANCED 9
- EV10 - ENHANCED 10
- EV11 - ENHANCED 11
- EV12 - ENHANCED 12
- EV13 - ENHANCED 13
- EV14 - ENHANCED 14
- EV15 - ENHANCED 15
- EV16 - ENHANCED 16
- EV17 - ENHANCED 17
- EV18 - ENHANCED 18
- EV19 - ENHANCED 19
- EV20 - ENHANCED 20

**NOTE:**

- TREE DIM LINES ARE NOT TO SCALE. TREE SYMBOLS REFERENCE TRUNK LOCATION ONLY. TRUNK DIAMETERS ARE APPROXIMATED AT 3.5' TO 4' ABOVE GROUND LEVEL. TREES SHOWN ARE FOR REFERENCE ONLY AND OTHER TREES AND VEGETATION MAY EXIST.

**BITE INFORMATION**

TAX LOT NUMBER: IN ROW 404 TO 242000004  
 SITE ADDRESS: IN ROW 404 TO 14800 NE 40TH ST  
 RETAINING WALL: IN ROW 404 TO 14800 NE 40TH ST  
 PHONE NUMBER: (425) 428-3778  
 ZONING: IN PUBLIC ROW  
 TOTAL LOT AREA: IN PUBLIC ROW  
 PROJECT AREA: IN PUBLIC ROW

**LATITUDE/LONGITUDE POSITION**

COORDINATE DATA AT CENTER OF SUBJECT POLE:  
 NAD 83: X = 473764.81' E, Y = 176.9 FEET (GROUND)  
 UTM: X = 473764.81' E, Y = 176.9 FEET (GROUND)  
 UTM: X = 473764.81' E, Y = 176.9 FEET (GROUND)

**BOUNDARY DISCLAIMER**

THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY. SUBJECT AND ADJACENT PROPERTY LINES ARE DETERMINED USING FIELD-FOUND EVIDENCE AND RECORD INFORMATION.

**CAUTION**

UNDERGROUND UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY BE INCOMPLETE. STATE LAW REQUIRES THAT CONTRACTOR CONTACT THE ONE-CALL UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE STARTING ANY CONSTRUCTION.

1-800-424-6555

**DUNCANSON**  
 CONSULTING ENGINEERS, INC.  
 11210 132nd Avenue NE  
 Seattle, Washington 98149  
 Phone: (206) 881-8111  
 Fax: (206) 881-8171

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**REVISIONS**

NO.	DATE	DESCRIPTION
1	12/30/08	ISSUED FOR PERMITS
2	12/30/08	REVISIONS
3	12/30/08	REVISIONS
4	12/30/08	REVISIONS
5	12/30/08	REVISIONS
6	12/30/08	REVISIONS
7	12/30/08	REVISIONS
8	12/30/08	REVISIONS
9	12/30/08	REVISIONS
10	12/30/08	REVISIONS

**REDMOND ROAD AND NE 40TH**  
 EXISTING SITE SURVEY  
 SEC 24, TWP 25 N, RNG 5 E, WM

PLD. CREW: JAR/JIN  
 PLD. BOOK: 208/21  
 DRAWN BY: MAC/CD  
 JOB #: 01808.202  
 DATE: 12/30/08

**C2**  
 2 OF 2



PROJECT INFORMATION:  
**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE023548**  
 10' ROW ADJACENT TO 16800 NE 40TH ST  
 REDMOND, WA 98052

ISSUED FOR:  
**BUILDING PERMIT**

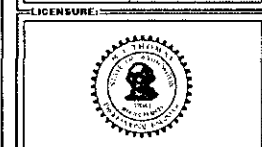
REVISION HISTORY:

NO.	DATE	DESCRIPTION	CHK.	APPV.
1/0	4/25/18	REV. AMBUSH CHANGE	BJT	LC
2/0	8/26/2018	TRCL NOTE ADDED	BJT	LC
3/0	8/26/2018	MINOR REV PER RELOCIES	BJT	LC
4/0	4/28/2019	ADD 10' SEPARATION EQUIPMENT & PER POLE	BJT	LC
5/0	4/28/2019	UPDATE TELCO ROUTING PLAN & ADD 2ND CABLE	BJT	LC
6/0	03/19/2018	SUPPLY UPDATED TELCO ROUTING UPDATED	BJT	LC
7/0	3/4/2019	REV PER PSE COMMENTS	BJT	LC
8/0	3/4/2019	REV PER RELOCIES	BJT	LC

PLANS PREPARED BY:  
**B. J. THOMAS, P.E.**  
**7607 80TH AVE NE**  
**MARYSVILLE, WA 98270**  
**206-851-1106**

DRAWN BY:      CHK. BY:      APPV. BY:     

AAL	BJ	AM
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EQUIPMENT:  
 AN RACAL CARNE T LOCATED AT BOTTOM OF A 10' AGL REPLACEMENT ROUND WOOD UTILITY POLE & ANTENNAS WITHIN 8' TO CABINET AT TOP.

DRAWING INFORMATION:  
 DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY VARIATIONS AND DIMENSIONS. ALL PREVIOUS EDITIONS OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY PROHIBITED.

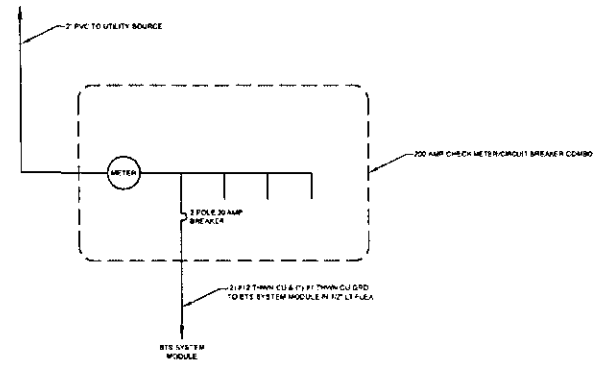
DRAWING TITLE:  
**ELECTRICAL SHEET**

DRAWING NUMBER:  
**E-1**

Ordinance No. 2847  
AM No. 12-033









**ELECTRICAL NOTES:**

- ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ANY LOCAL, CITY, OR COUNTY CODES THAT MAY APPLY.
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITTING FEES, INSPECTORS, AND TESTING AS REQUIRED BY THE PERMITTING AUTHORITY AND T-MOBILE.
- UNDERGROUND CONDUIT SHALL BE RIGID POLYVINYL CHLORIDE CONDUIT, SCHEDULE 40 TYPE 1 CONFORMING TO ILL ARTICLE 801 MANUFACTURED BY WESTLON PLASTICS, CARLON, OR FIDAL. ALL BENDS SHALL BE 30° MINIMUM RADII.
- CONTRACTOR SHALL CONTACT ALL UTILITIES FOR LOCATION OF UNDERGROUND SERVICES. SERVICE LOCATIONS TO BE CONFINED PRIOR TO CONSTRUCTION.
- ALL EQUIPMENT, WIRING, AND MATERIALS MUST HAVE A UL LABEL.
- CONTRACTOR SHALL PROVIDE AND INSTALL A 2" PVC CONDUIT WITH PULL ROPE FROM THE TELCO LINE BOX AND TELCO DEMARCATION POINT.
- CONTRACTOR SHALL PROVIDE AND INSTALL A 2" PVC CONDUIT FROM POWER COMPANY REPORTER DEMARCATION POINT AND METER BASE OR SERVICE PANEL WHERE APPLICABLE.
- CONDUIT USED INDOORS SHALL BE EMT, CONDUIT USED OUTDOORS SHALL BE RMC. COUPLINGS SHALL BE RIGID STEEL AND CONDUIT BENDS SHALL BE 3/4" EMT KNEE SCREW FITTINGS AND NOT PERMITTED. RMC TO BE USED FOR ALL CONDUIT STRIKUPS.
- WIRES AND CABLES SHALL BE CONTINUOUS FROM TERMINATION TO TERMINATION WITH NO SPLICES ALLOWED.
- ALL JUNCTION AND OUTLET BOXES SHALL BE LABELED WITH KNOW TAPE OR EQUAL. CONTRACTOR TO DISAGREE ALL CIRCUIT NUMBERS CONTAINED IN EACH BOX.
- THE DISTRIBUTION PANEL SHALL HAVE A TYPED LEGEND IDENTIFYING THE LOADS OF ALL CIRCUIT BREAKERS.
- CONTRACTOR SHALL INSTALL CONDUIT SEALING COMPOUND (BLACKBURN DEX DUCT SEAL OR EQUAL) AFTER WIRING IS PULLED AND TERMINATED.



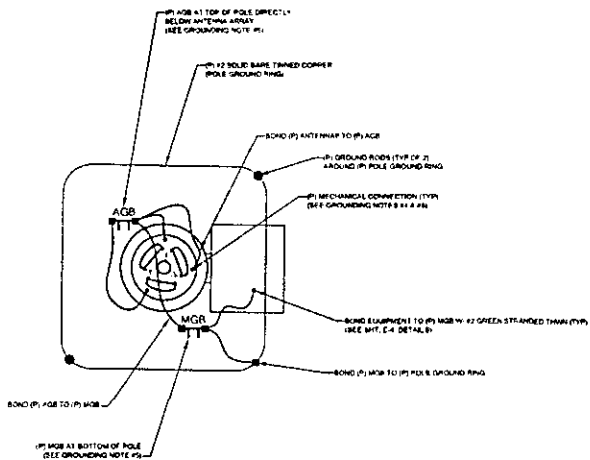
**ELECTRICAL ONE LINE**

**SYMBOL LEGEND:**


- MGB  MASTER GROUND BAR 1/4"x1/2" COPPER
- AGB  ACCESSORY GROUND BAR 1/4"x1/2" OR 1/4"x3/8" COPPER
-  EXPOSED WIRING
-  UNDERGROUND WIRING
-  CADWELD
-  MECHANICAL CONNECTION
- 
-  INSPECTION PORT
- 
-  GROUND

**GROUNDING NOTES:**

1. GROUNDING SHALL COMPLY WITH LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. MINIMUM BENDING RADIUS FOR GROUND CONDUCTORS IS 18\"/>
3. NO SPLICES PERMITTED IN GROUND CONDUCTORS.
4. ALL OPEN WIRING CONDUCTORS TO BE CLEAN AND FREE OF PAINT AT THEIR MOUNTING SURFACES AND INSTALLED IN A MANUFACTURER'S RECOMMENDED RACE OR PENETRATOR OR EQUIVALENT ANTICORROSION COVERAGE.
5. ALL GROUND BAR CONNECTIONS ARE TO BE 7-HOLE LUGS COMING FROM TYPE 1 ATTACHED CONNECTIONS ARE NOT ACCEPTABLE. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR WILL BE PERMITTED.
6. FAILURE ALL MECHANICAL CONNECTIONS ARE TORQUED TO THE MANUFACTURER'S SPECIFIED VALUES.
7. MULTIPLE BONDS ON GROUND RODS TO BE SEPARATED BY AT LEAST 4\"/>
8. MAXIMUM RESISTANCE OF THE COMPLETED GROUNDING SYSTEM SHALL NOT EXCEED A RESISTANCE OF 5 OHMS TO EARTH.
9. GROUND WIRES SHALL NOT BE INSTALLED THROUGH HOLES IN ANY METAL OBJECTS OR SUPPORTS. TOPS INCLUDE ESTABLISHING A "CHINA" POINT.
10. GROUND BARS SHALL NOT BE FIELD JOINER.
11. GROUND RING BURIAL DEPTH SHALL BE 30\"/>
12. A CERTIFIED CONTRACTOR SHALL MAKE ALL MEASUREMENTS REQUIRED TO TEST THE GROUNDING SYSTEM USING A MEGGER OR EQUIVALENT. THE ACCEPTABLE RESISTANCE WE ASSUME FOR THE GROUNDING SYSTEM WILL NOT EXCEED 5 OHMS RESISTANCE. THESE DISTANCES SHALL BE USED: 1 AT 10 FEET, 1 AT 20 FEET AND 1 AT 35 FEET. THESE DISTANCES ARE SUBJECT TO A SITE BY SITE BASIS. 1 HOUR TESTS SHALL BE GIVEN 24 HOURS NOTICE. ALL COSTS ASSOCIATED WITH GROUND TESTING WILL BE AT THE EXPENSE OF THE CONTRACTOR.



**1 ELECTRICAL GROUNDING PLAN**  
SCALE: NTS



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**PROJECT INFORMATION:**

**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE02354B**  
IN ROW ADJACENT TO 74800 NE 40TH ST  
REDMOND, WA 98063

---

**ISSUED FOR:**

**BUILDING PERMIT**

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**REVISION HISTORY:**

NO.	DATE	DESCRIPTION	ENCL. APPV. BY:	BY:
1	8/22/10	REV. AZMUTH CHANGE	BJT	LC
2	12/20/10	TREE NOTE ADDED	BJT	LC
3	2/20/11	SIMILAR REV. PER REVISIONS	BJT	LC
4	4/21/11	ADD OF SEPARATION EQUIPMENT @ THE POLE	BJT	LC
5	4/20/11	UPDATE TELCO MOUNTING PLAN & ADD 2ND CABLE 1	BJT	LC
6	8/18/2010	SURVEY UPDATED, TELCO MOUNTING UPDATED	BJT	LC
7	3/4/2008	REV PER PSE COMMENTS	BJT	LC
8	3/4/2008	REV PER REVISIONS	BJT	LC

---

**PLANS PREPARED BY:**

**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106


---

**DRAWN BY:** CHK. **BY:** APPV. **BY:**

AAL      BJ      AM

---

**LICENSE:**




---

**EQUIPMENT:**

AN RACS CABINET LOCATED AT BOTTOM OF A 10' AGL REPLACEMENT RETURN AND UTILITY POLE & ANTENNAS WITHIN A 10' CABINET AT TOP.

---

**DRAWING INFORMATION:**

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADJUST CONSULTANTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY BY NATURE. ANY USE OR REPRODUCTION OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY PROHIBITED.

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**DRAWING TITLE:**

**ELECTRICAL GROUNDING PLAN**

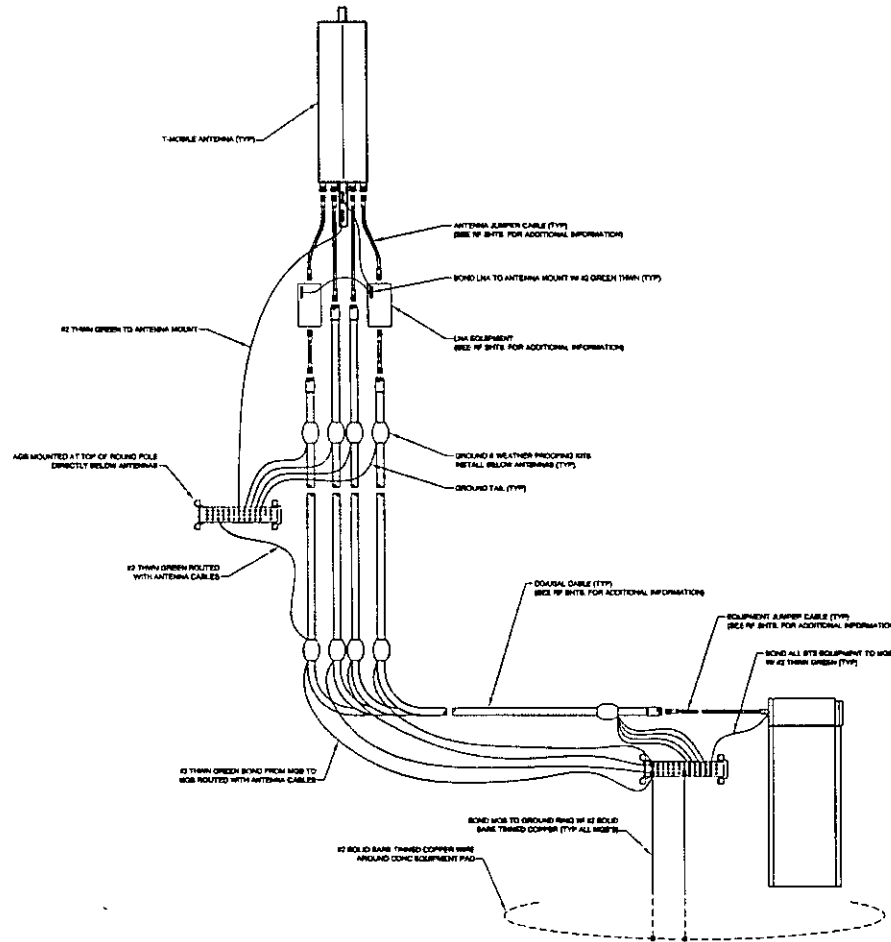
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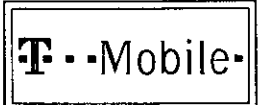
**E-2**

Ordinance No. 2647  
AM No. 12-033

EXHIBIT A  
Page 13 of 17



**ANTENNA GROUNDING RISER**  
SCALE: NTS



**PROJECT INFORMATION:**  
**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE02354B**  
 1IN ROW ADJACENT TO 18600 NE 40TH ST  
 REDMOND, WA 98052

**ISSUED FOR:**  
**BUILDING PERMIT**

**REVISION HISTORY:**

NO.	DATE	DESCRIPTION	CHKD. BY:	APPV. BY:
1	8/20/18	REV. AZNUTH CHANGE	BJT	LC
2	8/20/18	TIRE NOTT ADDED	BJT	LC
3	8/20/18	SANOR REV. PER MEXILES	BJT	LC
4	10/2/18	ADD RP SEPARATION COLUMN AT P&E POLE	BJT	LC
5	10/2/18	UPDATE TELCO WIRING PLAN & ADD 2ND CABINET	BJT	LC
6	10/18/18	SURVEY UPDATED TELCO ROUTING UPDATED	BJT	LC
7	10/2/18	REV PER P&E COMMENTS	BJT	LC
8	10/2/18	REV PER RESURVA	BJT	LC

**PLANS PREPARED BY:**  
**B. J. THOMAS, P.E.**  
 7607 80TH AVE NE  
 MARYSVILLE, WA 98270  
 206-851-1106

**DRAWN BY:** CHK. BY: APPV. BY:  
 AAL BJ AM



**EQUIPMENT:**  
 AN RACKS CABINET 1 LOCATED AT BOTTOM OF A 78' AGL  
 RE PLACEME NT ROUND WOOD UTILITY POLE & ANTENNAS  
 WITHIN A 12' DIAMETER AT TOP.

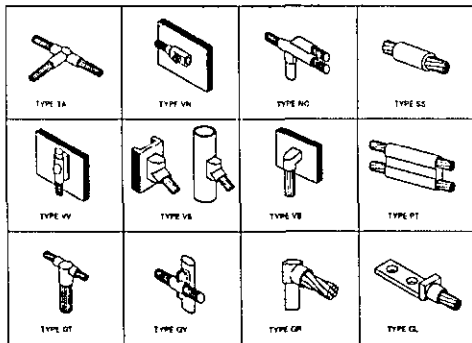
**DRAWING INFORMATION:**  
 DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY  
 ALL DIMENSIONS AND ANNOT. CONSULTANTS OF ANY  
 ERRORS AND OMISSIONS. ALL DIMENSIONS OF THIS  
 DRAWING ARE SUPERSEDED BY THE LATEST REVISION.  
 THE INFORMATION CONTAINED HEREIN IS THE BEST OF  
 DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR  
 DISCLOSURE OTHER THAN WHICH IS RELATED TO NAMED  
 CLIENT IS STRICTLY PROHIBITED.

**DRAWING TITLE:**  
**ELECTRICAL  
 GROUNDING  
 DETAILS**

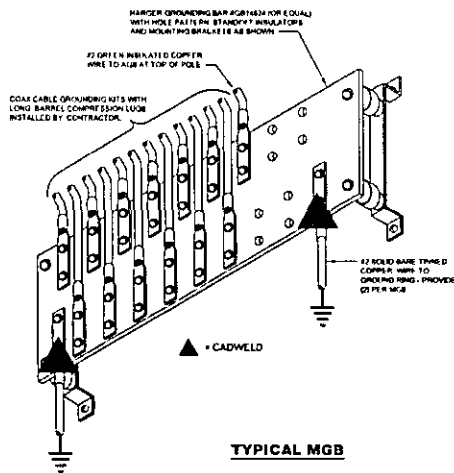
**DRAWING NUMBER:**  
**E-3**

Ordinance No. 2647  
AM No. 12-033

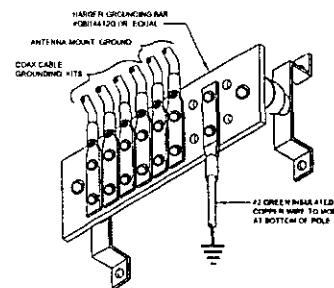
EXHIBIT A  
Page 14 of 17



1 TYPICAL CADWELD CONNECTIONS  
N.T.S.

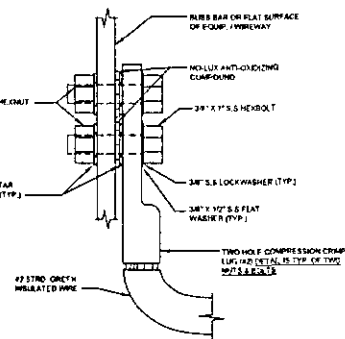


TYPICAL MGB



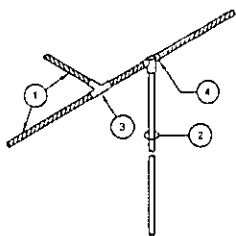
TYPICAL AGB

2 GROUND BAR DETAILS  
E-4 N.T.S.



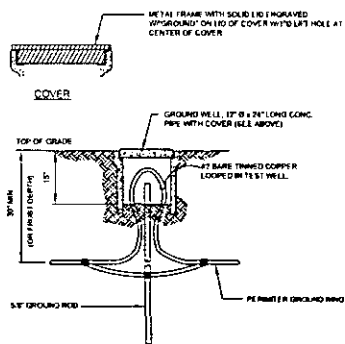
NOTES:  
1. ALL GROUND WIRES FOR ELECT. AND OTHER EQUIPMENT.  
2. THE ENTIRE LUG AND AREA TO BE SPRAYED WITH CLEAR LAQUER OR COLORED GALVANIZING SPRAY.  
3. GROUND LEADS TO BE CADWELDED TO GROUND RING.

5 TYPICAL CABINET GROUNDING DETAIL  
E-4 N.T.S.



- 1 MAIN CONDUCTOR COPPER CABLE
- 2 3/8\"/>

3 GROUND ROD CONNECTION  
E-4 N.T.S.



4 GROUND INSPECTION WELL  
E-4 N.T.S.



PROJECT INFORMATION:  
**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE02354B**  
IN ROW ADJACENT TO 16600 NE 40TH ST  
REDMOND, WA 98052

ISSUED FOR:  
**BUILDING PERMIT**

REVISION HISTORY:

NO.	DATE	DESCRIPTION	CHK.	APPV.
1	03/20/18	REV. ALZBETH CHANCE	BUT	LC
2	02/20/18	100% NOTE ADDED	BUT	LC
3	02/20/18	MATCH REV. PER REDLINE	BUT	LC
4	02/20/18	ADD RF SEPARATION EQUIPMENT & PSE POLE	BUT	LC
5	02/20/18	UPDATE TELCO MOUNTING PLAN & ADD TND CABINET	BUT	LC
6	02/20/18	SURVEY UPDATED TELCO MOUNTING UPDATED	BUT	LC
7	04/20/18	REV PER PSE COMMENTS	BUT	LC
8	04/20/18	REV. PER REDLINE	BUT	LC

PLANS PREPARED BY:  
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MARYSVILLE, WA 98270  
206-851-1106

DRAWN BY: **CHK.** BY: **APPV.** BY:  
AAL      BJ      AM



EQUIPMENT:  
44 RACKS CABINET LOCATED AT BOTTOM OF A RE-AGE. REPLACE METAL BOUND WOOD UTILITY POLE & ANTENNAS WITHIN A 40' CIRCUMFER AT TOP.

DRAWING INFORMATION:  
DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS EDITIONS OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED ON THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY PROHIBITED.

DRAWING TITLE:  
**ELECTRICAL GROUNDING DETAILS**

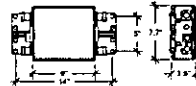
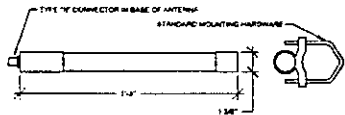
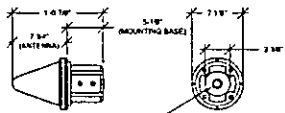
DRAWING NUMBER:  
**E-4**

Ordinance No. 2647  
AM No. 12-033

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**SITE LOADING CHART**

ANTENNA	SECTOR	ANTENNA MODEL #	VENDOR	AZIMUTH (TH)	MECHANICAL DOWNTILT	RADIATION CENTER	CABLE LENGTH	COAXIAL CABLE	# OF COAX RUNS
A1	ALPHA	TMS11-4516-PCN	ANDREW	70°	T80	77-11° AGL	75'	ANDREW 17' B	4
A2									
A3									
A4									
B1	BETA	TMS11-4516-PCN	ANDREW	160°	T80	77-11° AGL	75'	ANDREW 17' B	4
B2									
B3									
B4									
G1	GAMMA	TMS11-4516-PCN	ANDREW	310°	T80	77-11° AGL	75'	ANDREW 17' B	4
G2									
G3									
G4									
OP6	-	MBS2A	SYMMETRIKUM	-	-	80° AGL	10'	ANDREW 17' B	1
B11	-	B309764	COMTECO	-	-	80° AGL	10'	ANDREW 17' B	1



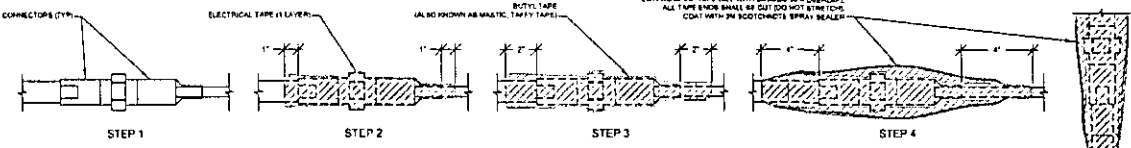
MECHANICAL SPECIFICATIONS:				
PART #	LENGTH	DIAMETER	WEIGHT	CONNECTORS
8132A	6' 47" (195mm)	3.14" (80mm)	18.66 (420 lb)	11 TYPE "V"
MOUNTING HARDWARE OPTION NUMBERS				
ELECTRICAL SPECIFICATIONS:				
FREQUENCY	POLARIZATION	UPL	VSWR	POWER HANDLING
166.42-168.42 MHz	RIGHT-HAND CIRCULAR	+30 dB	+2.8	200 WATTS CW

MECHANICAL SPECIFICATIONS:				
PART #	HEIGHT	DIAMETER	WEIGHT	CONNECTORS
B309764	55'	1.58" (40mm)	4.86	11 TYPE "V"
STANDARD MOUNTING HARDWARE				
ELECTRICAL SPECIFICATIONS:				
FREQ. (MHz)	GAIN	VERTICAL B.F. (dB)	VSWR	POWER HANDLING
171.150-173.150 MHz	12.1	75	+2.1	200 WATTS

MECHANICAL SPECIFICATIONS:				
PART #	LENGTH	WIDTH	DEPTH	WEIGHT
1158037A	9" (229mm)	7.7" (196mm)	6" (152mm)	3.6 (11 lbs)
CONNECTORS: MOUNTING CONNECTION				
TYPE: 3" IN DIA FEMALE				
ELECTRICAL SPECIFICATIONS:				
FREQUENCY	FREQUENCY	GAIN	VSWR	POWER HANDLING
166.42-168.42 MHz	171.150-173.150 MHz	12.1	8	100 WATT

- NOTE:**
- ALL COAXIAL CABLE CONNECTIONS TO BE WEATHER PROOFED.
  - CONTRACTOR TO PROVIDE DRIP LOOPS IN CABLES AND JAMPERS WHEN NECESSARY.
  - TACKLING
    - ALL COAXIAL CABLES TO BE MARKED WITH COLOR CODED TAPE TO INDICATE THE ANTENNA SECTOR.
    - COLOR CODED ELECTRICAL TAPE SHALL MARK EACH END OF CABLE AND EACH END OF JAMPERS AS CLOSE TO EACH END AS POSSIBLE (NOT TO INTERFERE WITH WEATHERPROOFING).
  - COAXIAL CABLE SPECIFICATIONS REQUIRE CABLE SUPPORT EVERY 3' ON CENTER. CONTRACTOR SHALL SUPPLY SUPPORTS AS HE DEEMED TO MEET THIS REQUIREMENT.
  - VERTICAL CONNECTIONS SHALL BE TAPPED FROM THE BOTTOM UP TO OVERLAP AND WATER AWAY FROM CONNECTION (SEE STEP 1).
  - PROVIDE HEAT SHRINK IN PLACE OF TAPE FOR QUAD POLES AND TAPS.

T1	1665 - 1675 MHz, 1680 - 1685 MHz
R1	1680 - 1695 MHz, 1700 - 1705 MHz



**1 COAXIAL CABLE WEATHERPROOFING**  
SCALE: NTS

**ANTENNA AND COAX GENERAL NOTES:**

- ALL ANTENNA AND COAXIAL ANTENNA CABLE TO BE FURNISHED BY TRADE AND INSTALLED BY CONTRACTOR.
- COAX COLOR OR CODING: ANTENNAS TO BE NUMBERED IN A CLOCK WISE MANNER FROM TRUE NORTH AND COLOR CODED AS FOLLOWS:

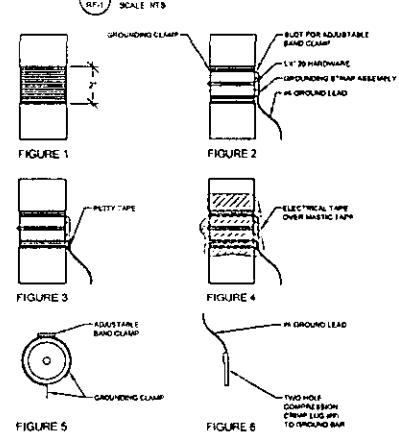
SECTOR	ANTENNA DESIGNATION - COLOR CODING
ALPHA SECTOR	A1 - 1 RED BAND
	A2 - 2 RED BAND
	A3 - 3 RED/GREY BANDS
	A4 - 4 RED/GREY BANDS
BETA SECTOR	B1 - 1 GREEN BAND
	B2 - 2 GREEN BANDS
	B3 - 3 GREEN/GREY BANDS
	B4 - 4 GREEN/GREY BANDS
GAMMA SECTOR	G1 - 1 YELLOW BAND
	G2 - 2 YELLOW BANDS
	G3 - 3 YELLOW/GREY BANDS
	G4 - 4 YELLOW/GREY BANDS

- THE ABOVE COAX COLOR CODING APPLIES TO SECTORIZED SITES / OR CAMP SITES, USE THE ATD, STD. & QTD COLOR CODES ONLY.
- COAX SHALL BE TAPPED WITH CONNECTION CODING AT EACH PLACE USING 1" WIDE WEATHER PROOF COLORED VINYL TAPE AT THE FOLLOWING LOCATIONS:  
#1 - AT ANTENNA CONNECTION  
#2 - AT ENTRY TO EQUIPMENT CABINET

- PER COAXIAL CABLE WITH MINIMUM 12" BLACK X 1/2" IN WIDTH OF POLYPROPYLENE CABINETS, ACROSS WAVE GUIDE SHROUD IF APPLICABLE UP TO LOWER LEG IF APPLICABLE & EXTENDS TO EACH PART AND DEVICE. FURNISH AND INSTALL A MINIMUM OF 25 GROUND WIRE PER COAXIAL CABLE ACCORDING TO ELECTRICAL DRAWINGS. VERIFY NUMBER OF ANTENNAS, CABLE, CABLE DIAMETER WITH PROJECT MANAGER.

TYPE OF EQUIPMENT	1" WIDTH OF CABLE RUN	DIAMETER OF CABLE	MIN. BENDING RADIUS
CITYCALL ULTRATETS	3" OF 3/8" & 1/2" SUPERFLEX JUMPER RUNS	1/2" Ø	1.5' RAD
CITYCALL ULTRATETS	5/8" OF 3/8" & 1/2" FLEX JUMPER RUNS	1/2" Ø	1' RAD
ULTRATETS	Ø" THROUGH 1/2" Ø"	7/8" Ø	10" RAD
ULTRATETS W/ LAM	1/2" Ø THROUGH 1/2" Ø"	7/8" Ø	10" RAD
ULTRATETS	1/2" Ø AND GREATER	1.5" Ø	20" RAD
CITYCALL	Ø" THROUGH 1/2" Ø"	7/8" Ø	10" RAD
CITYCALL	1/2" Ø AND GREATER	1.5" Ø	20" RAD

**2 COAXIAL CABLE SPECIFICATIONS**



**3 COAXIAL CABLE GROUNDING**  
SCALE: NTS



**PROJECT INFORMATION:**  
**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE02354B**  
 1M ROW ADJACENT TO 16800 NE 40TH ST  
 REDMOND, WA 98062

**BUILDING PERMIT**

NO.	DATE	DESCRIPTION	CHK.	APPV.
03/20/10	REV. AZIMUTH CHANGE	B/T	LC	
02/27/10	TREE NOTE ADDED	B/T	LC	
02/02/10	SIGNOR REV. PER FIELDWORK	B/T	LC	
02/02/10	ADD 10' SE PARAPETAN EQUIPMENT 4' POLE	B/T	LC	
02/02/10	UPDATE TELECOM ROUTING PLAN & ADD 2ND CABINET	B/T	LC	
01/16/10	SUPPLY UPDATED TELECOM ROUTING	B/T	LC	
04/22/08	REV. PER PRC COMMENTS	B/T	LC	
04/22/08	REV. PER FIELDWORK	B/T	LC	

**PLANS PREPARED BY:**  
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 MARYSVILLE, WA 98270  
 206-851-1106

**DRAWN BY:** CHL **BY:** APPV. BY:

**AAL** **BJ** **AM**



**EQUIPMENT:**  
 AN EACH CABINET LOCATED AT BOTTOM OF A TOWER REPLACEMENT IN PLACE WHO TO LIFT POLY 4 ANTENNAS WITHIN A 10' CIRCUMFERENCE AT TOP

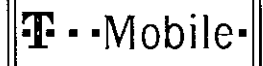
**DRAWING INFORMATION:**  
 DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND SPACING. CONSULT TAPES OF ANY ERRORS AND CORRECTIONS. ALL DIMENSIONS SHOWN ON THIS DRAWING ARE SUBJECT TO BE REVISOR'S LATEST REVISION. THE DRAWING FOR CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISSEMINATION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF T-MOBILE IS STRICTLY PROHIBITED.

**DRAWING TITLE:**  
**RF DETAILS**

**DRAWING NUMBER:**  
**RF-1**

Ordinance No. 26-47  
 AM No. 12-033

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**PROJECT INFORMATION:**  
**REDMONDS ROAD & NE 40TH/PSE/ROW**  
**SE02354B**  
 IN ROW ADJACENT TO 18900 NE 40TH ST  
 REDMOND, WA 98052

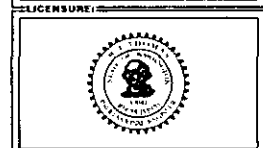
**ISSUED FOR:**  
**BUILDING PERMIT**

**REVISION HISTORY:**

NO.	DATE	DESCRIPTION	CHK. APPV. BY:
1	8/27/10	REV. ADMIN CHANGE	B/T LC
2	8/29/10	TRF. NOTE ADDED	B/T LC
3	10/27/10	MINOR REV. PER. RET. FILE	B/T LC
4	1/28/11	ADD W/ REPARATION EQUIPMENT & PSE POLE	B/T LC
5	2/26/11	UPDATE TELCO ROUTING PLAN & ADD 2ND CABINET	B/T LC
6	3/10/11	SURVEY UPDATED TELCO ROUTING/UPDATED	B/T LC
7	3/10/11	REV. PER. PSE COMMENTS	B/T LC
8	3/10/11	REV. PER. REQUIRES	B/T LC

**PLANS PREPARED BY:**  
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 MARYSVILLE, WA 98270  
 206-851-1106

**DRAWN BY:** CHK, BY: APPV, BY:  
 AAL BJ AM



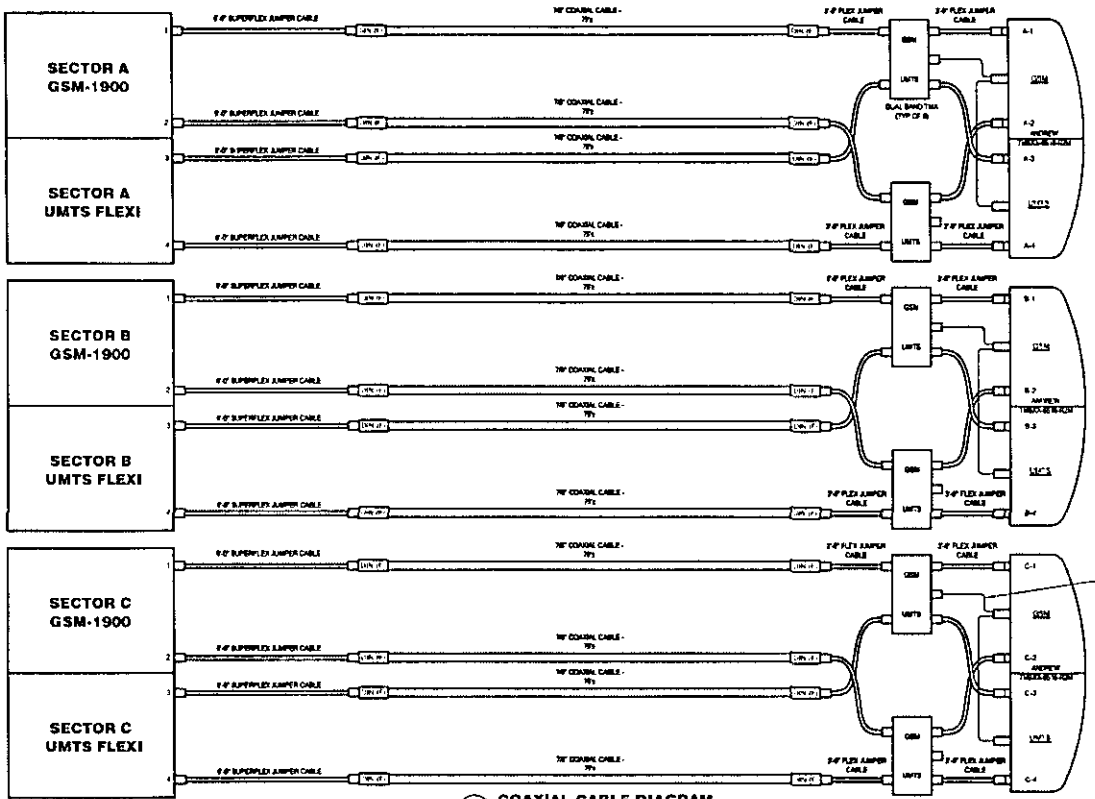
**EQUIPMENT:**  
 AN RACES CARRIER LOCATED AT BOTTOM OF A 75' AGL PERMIT AREA BOUND WOOD UTILITY POLE & ANTENNAS WITHIN A W/ CABINET AT TOP.

**DRAWING INFORMATION:**  
 DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADDRESS CORRECTIONS OF ANY ERRORS AND AMENDMENTS. ALL PREVIOUS EDITIONS OF THIS DRAWING ARE SUPERSEDED BY THIS LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY IN NATURE. ANY USE OR DISCLOSURE OTHER THAN WHICH IS RELATED TO HANDED CLIENT IS STRICTLY PROHIBITED.

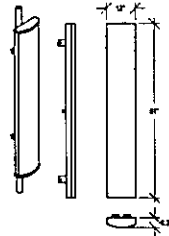
**DRAWING TITLE:**  
**RF DETAILS**  
**DRAWING NUMBER:**  
**RF-2**

**SWEEP TEST PROCEDURE:**

- THE FOLLOWING PROCEDURE DESCRIBES THE TEST AND FAULT FINDING PROCEDURE TO BE FOLLOWED FOR ALL ANTENNAS:
1. TEST EQUIPMENT SHOULD CONSIST OF 4 SWEEP OSCILLATOR SET TO SCAN BETWEEN 1800 AND 2000 MHz. IMPEDANCE COUPLER WITH AT LEAST 30 dB ISOLATION AND RETURN LOSS. NETWORK ANALYZER WITH REFLECTION COEFFICIENT LESS THAN 0.2 dB. A MATCHED 50 OHM LOAD AND SHORT CIRCUIT TERMINATION ARE ALSO REQUIRED.
  2. SET UP THE RETURN LOSS MEASUREMENT AS PER THE MANUFACTURER'S INSTRUCTIONS AND CALIBRATE WITH THE SHORT (0 dB RETURN LOSS) VIEW = 0dB RETN L.
  3. INFORM THE OPERATIONS STAFF AT THE SITE THAT SWEEP TESTS ARE TO BEGIN AT THIS SITE SO THAT THEY CAN DISABLE TRANSMISSION TO AVOID POTENTIAL TRY DAMAGE WITH THE ANTENNA PORT OPEN IF APPLICABLE.
  4. COMPUTE RETURN LOSS. DISCONNECT THE BOTTOM AMPER AT THE BTS AND CONNECT IT TO THE MAIN PORT OF THE BRIDGE. RETURN LOSS OF THE COMPOSITE AMPLIFIER FEEDERS AND ANTENNA SHOULD BE < 1.08 (DOWN 1.1) DB BETWEEN 1800 AND 2000 MHz.
  5. FEEDER RETURN LOSS. TURN OFF THE SWEEP OSCILLATOR, DISCONNECT THE TOP AMPER AT THE ANTENNA AND CONNECT A 50 OHM LOAD TO THE END OF THE TOP AMPER WITH A 20:1 R-ADAPTER. POWER UP THE GENERATOR AND MEASURE THE RETURN LOSS LOOKING INTO THE BOTTOM AMPER. THE RETURN LOSS SHOULD NOT EXCEED -10 DB (DOWN 1.2) DB BETWEEN 1800 AND 2000 MHz.
  6. FEEDER INSERTION LOSS. REPLACE THE LOAD WITH A SHORT CIRCUIT TERMINATION AND MEASURE THE MAXIMUM AND MINIMUM RETURN LOSS BETWEEN 1800 AND 2000. ADD THESE TOGETHER AND DIVIDE BY 2 TO OBTAIN THE AVERAGE. THAT INSERTION LOSS SHOULD BE < 0.5 DB.
  7. IF THE CONDITIONS IN 4, 5, AND 6 ARE MET THE TEST IS COMPLETE. IF 4 IS BAD BUT 5 AND 6 ARE OK THEN REPLACE THE ANTENNA AND RETEST. IF 5 AND 6 ARE BAD THEN MEASURE THE LOSS FEEDER ONLY. IF RETURN LOSS IMPROVES TO < 0.5 DB THEN OK. OTHERWISE LOSS IMPROVES BY MORE THAN 2 DB THEN REPLACE OR REPAIR ANTENNA. THE BOTTOM AND TOP AMPERS. OTHERWISE REPLACE THE MAIN FEEDER FROM NETWORK MANAGER BY AND BY ENGINEERING OR ANY HEALTHY WORKAROUND.
  8. ALL TEST RESULTS SHOULD BE CLEARLY MARKED WITH SITE, FEEDER NUMBER, DATE, AND MEASURED TIME.



**1**  
**COAXIAL CABLE DIAGRAM**  
 N.T.S.



**ANDREW ANTENNA DATA**

MECHANICAL SPECIFICATIONS			
PART NUMBER	HEIGHT	WIDTH	DEPTH
11500-00000	11.8	11.8	14.6
CONNECTORS	3 STANDARD MOUNTING HANGERS		
COUPLER	INTERNAL		
ELECTRICAL PERFORMANCE			
FREQUENCY RANGE	PERFORMANCE CLASS	1.25dB/1.5dB	ELEVATION 0-10
1710-2170 MHz	1	1.5	0-10
WEIGHT	MAX. WIND SPEED	20 MPH	

Ordinance No. 2847  
AM No. 12-033

EXHIBIT A  
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