



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

March 13, 2017

Ordinance 18474

Proposed No. 2016-0520.2

Sponsors Upthegrove

1 AN ORDINANCE authorizing the county executive to sign
2 a twenty-five year lease enabling the Puget Sound
3 Emergency Radio Network project to occupy and use a
4 portion of the Suquamish Tribe of the Port Madison Indian
5 Reservation's communications site.

6 STATEMENT OF FACTS:

- 7 1. King County has established a capital improvement project ("the
8 PSERN project") to build the Puget Sound Emergency Radio Network
9 ("PSERN").
- 10 2. King County adopted Proposition 1 and Ordinances 17993, 18074 and
11 18075, to fund the planning, deployment and testing of PSERN.
- 12 3. King County entered into a contract with Motorola Solutions, Inc., that
13 requires Motorola to identify the sites needed for PSERN's
14 communications equipment together with a list of equipment needed at
15 each site. Motorola identified the Suquamish site of the Suquamish Tribe
16 of the Port Madison Indian Reservation's communications site as one of
17 the needed sites.
- 18 4. The PSERN project, with the oversight of the county's facilities
19 management division, successfully negotiated a lease with the Suquamish

Tribe of the Port Madison Indian Reservation that would enable the
PSERN project to use the Suquamish site, located at 22063 Dewberry
Road NE, Indianola, Washington, in Kitsap County.

BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

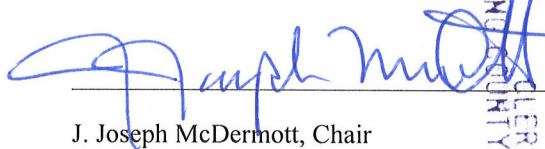
SECTION 1. The executive is authorized to execute a lease for the Suquamish
site with the Suquamish Tribe of the Port Madison Indian Reservation, substantially in

26 the form of Attachment A to this ordinance, and to take all actions necessary to
27 implement the terms of the lease.
28

Ordinance 18474 was introduced on 11/14/2016 and passed by the Metropolitan King County Council on 3/13/2017, by the following vote:

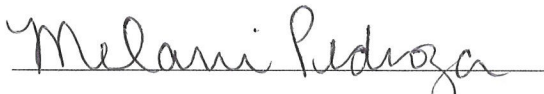
Yes: 9 - Mr. von Reichbauer, Mr. Gossett, Ms. Lambert, Mr. Dunn,
Mr. McDermott, Mr. Dembowski, Mr. Upthegrove, Ms. Kohl-Welles
and Ms. Balducci
No: 0
Excused: 0

KING COUNTY COUNCIL
KING COUNTY, WASHINGTON



J. Joseph McDermott, Chair

RECEIVED
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KING COUNTY COUNCIL CLERK

ATTEST:


Melani Pedroza, Acting Clerk of the Council

APPROVED this 22nd day of March, 2017.


Dow Constantine, County Executive

Attachments: A. Lease Agreement dated March 6, 2017

Dated March 6, 2017

ATTACHMENT A:

LEASE AGREEMENT

SUQUAMISH TRIBE
AND
KING COUNTY

LEASE AGREEMENT

THIS LEASE AGREEMENT ("Lease") is made and entered into by and between the Suquamish Tribe of the Port Madison Indian Reservation, a federally recognized Indian Tribe organized pursuant to Section 16 of the Indian Reorganization Act of 1934 (25 U.S.C. § 476), hereinafter referred to as the LESSOR or TRIBE, owner of trust lands located within the exterior boundaries of the Port Madison Indian Reservation, acting by and through the Superintendent, Puget Sound Agency, Bureau of Indian Affairs, Department of the Interior, pursuant to the provisions of Federal law, and King County, a political subdivision of the State of Washington, hereinafter referred to as the LESSEE. The Lessor and Lessee may be individually referred to herein as a "Party," and collectively as the "Parties."

1. LEASED FACILITIES.

A. The Lessor maintains an office address at 18490 Suquamish Way, Suquamish, Washington 98392, and Lessee maintains an office address at 500 Fourth Avenue, Suite 830, Seattle, Washington 98104. Lessor owns and operates the Indianola Forest and Cell Tower Site ("Site"), Allotment 114-T1045, which Site is situated on that certain parcel of real property located at 22063 Dewberry Rd NE, Indianola, WA (Parcel No. 112602-2-007-2000) ("Property"), on the Port Madison Indian Reservation, Kitsap County, State of Washington. The Site and Property are legally described in Exhibit A and depicted in Exhibit B, both attached hereto and incorporated herein by this reference. Lessor hereby leases to Lessee those portions of the Site reasonably necessary for the Lessee to install, operate, and maintain structures, equipment and other property necessary to operate an emergency radio network communication site, to include ingress and egress over the Property (hereinafter designated as the "Leased Premises").

B. The portion of the Leased Premises leased by Lessor to Lessee shall include those portions of the real property described above, and of an existing tower owned by Lessor on that real property, that are reasonably necessary for Lessee to fulfill its obligations under this Lease, but no more. Lessee's rights to use the real property described above are exclusive as to those portions of the Site used for the installation of certain Communication Facilities (defined in Section 4.A.) as depicted on Exhibit B ("Exclusive Use Area"), but as to the remainder of the Site, including the existing tower on that Property, are not exclusive but are shared with the Tribe and with pre-existing and/or future lessees.

C. Lessor hereby acknowledges that Lessee plans to fund, procure sites for such emergency radio network communication facilities, and along with other municipalities in King County establish the Puget Sound Emergency Radio Network (the "PSERN System") to eventually provide service in King County as authorized by Proposition 1 and King County Ordinances 17993, 18074 and 18075.

2. **TERM.**

The "Effective Date" of this Lease is the last date this Lease is approved by the Secretary (defined in Section 19.A.), and signed by the Secretary, Lessor and Lessee. The term of this Lease is twenty-five (25) years, beginning on the first day of the month after the date Lessee commences construction of the Communication Facilities (defined in Section 4.A.) or twenty-four (24) months after the Effective Date of this Lease, whichever is earlier ("Lease Commencement Date") and ending on the twenty-fifth anniversary of the Lease Commencement Date.

3. **RENT.**

A. Upon the Lease Commencement Date, Lessee shall pay Lessor \$34,101.12, in advance, as Annual Rent for the first year of this Lease. Upon the first anniversary of the Lease Commencement Date and each anniversary thereafter, the Annual Rent shall increase by 2.25% annually throughout the entire Lease term. See the Lease Rate Schedule attached hereto as Exhibit C and incorporated herein by this reference.

B. Rent for partial lease years shall be prorated and if Rent is ever overpaid it shall be either refunded or applied to future payments at Lessee's discretion. Rent shall be made payable to Lessor and sent to Lessor's address as set forth in Section 35 herein, or as directed by Lessor from time to time.

4. **PERMITTED USES.**

A. Lessee shall have the right to use and possess the Site for purposes involving, relating to or supporting telecommunications (the "Permitted Uses"). The term "Permitted Uses" expressly includes, without limitation, the right to install and maintain on the Site communication facilities, including, without limitation, radio and other storage structures and other improvements relating thereto (collectively, "Communication Facilities"). Construction plans for Lessee's Communication Facilities on the Site, which have been reviewed and approved by Lessor, are attached hereto and incorporated herein by this reference in Exhibit D. All Communication Facilities installed by Lessee shall be deemed personal property, and Lessee shall retain title to all such Communication Facilities. Lessee shall comply with all applicable laws in connection with the Permitted Uses and Communication Facilities.

B. Lessee shall have the right to modify, supplement, replace, upgrade or relocate the Communication Facilities on the Site at any time during the Lease term so long as such activity is consistent with the Permitted Uses and the Lessee receives written consent from the Lessor, which consent shall not be unreasonably withheld, delayed or conditioned. Lessee may erect fences or other barriers to prevent interference with its Communication Facilities.

C. Lessee shall have the right to install necessary utilities, including without limitation conduit and sleeving, for its Communication Facilities to the point of connection within

its equipment shelter. Lessee may install a separate electric meter for its electric service on the Leased Premises.

D. Lessee shall have the right to use the existing access road connecting to Dewberry Road for purposes of vehicular and pedestrian access to the Site without Lessor's consent. Lessor shall provide Lessee with access to the Site twenty-four (24) hours per day, seven (7) days per week. Lessor has fenced the exterior of the tower base and will provide Lessee with two (2) keys to the Site. Additional keys will be provided at a cost of \$10 per key.

5. NON-INTERFERENCE.

A. Lessee shall not use the Site in any way that interferes with the existing use by (i) Lessor or (ii) tenants or licensees of Lessor holding rights to the Lessor's Property on the Effective Date ("Existing Tenants").

B. Lessor warrants to Lessee the use and quiet enjoyment of the Leased Premises. Lessor agrees that it shall not use, or shall it permit its tenants, employees, invitees or agents to use, any portion of the Site or Lessor's Property in any way which would interfere with Lessee's telecommunications operations, provided that continued use by Lessor or Existing Tenants in the same manner as existed as of the Effective Date shall not constitute interference with Lessee's telecommunications operations.

C. In the event Lessor elects to permit a third party to use any of Lessor's Property for the purpose of installing communication facilities, Lessor shall, thirty (30) days prior to the issuance of such authority, deliver to Lessee engineering studies or other appropriate evidence that such use will not interfere with Lessee's operations at the Site. Should Lessee determine, based on such materials or on its own studies, that the third party will interfere with Lessee's operations, and so notifies Lessor in writing, then Lessor shall not permit the third party to use the Lessor's Property.

6. ENVIRONMENTAL MATTERS.

A. Lessor represents and warrants to Lessee that Lessor is not aware of any Hazardous Substances located on the Property in soil, groundwater, or other environmental media, or in violation of applicable laws. Lessee and Lessor agree that they will not place, dispose of or store any Hazardous Substances on the Leased Premises or the Property in violation of applicable laws. The Parties acknowledge that, consistent with this Section, Lessee may be installing on the Leased Premises backup power devices such as batteries and generators with petroleum or propane fuel storage tanks.

B. Lessee shall indemnify, defend and hold harmless Lessor with respect to any and all claims, demands, suits, causes of action, judgments, damages, costs, attorney fees, government orders, penalties, or other requirements (hereafter "Claims") arising from the release of any Hazardous Substances on the Leased Premises caused by Lessee, its employees or agents, except to the extent that a Claim is caused by the Lessor, its employees or agents, another tenant, its employees or agents, or a third party.

C. Lessor shall indemnify, defend and hold harmless Lessee with respect to any and all Claims arising from the presence or release of any Hazardous Substances on the Property, except to the extent that a Claim is caused by Lessee, its employees or agents.

D. For purposes of this Lease, "Hazardous Substances" shall mean any substance subject to regulation under the Washington Hazardous Waste Management Act (Ch. 70.105 RCW) and implementing regulations, any "hazardous substance" under the Washington Model Toxics Control Act (Ch. 70.105D RCW) and implementing regulations, and any "hazardous substance" or "hazardous waste" as defined by the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (42 USC §§ 9602 et seq.) and implementing regulations, as these laws are amended from time to time; underground storage tanks, whether empty, filled or partially filled with any substance; asbestos; urea formaldehyde foam insulation; PCBs; and any other substance, waste, material or chemical deemed or defined as hazardous, toxic, a pollutant, contaminant, dangerous or potentially dangerous, noxious, flammable, explosive, or radioactive, the removal of which is required or the manufacture, preparation, production, generation, use, maintenance, treatment, storage, transfer, handling, or shipment of which is restricted, prohibited, regulated or penalized by any federal, state, county, municipal or other local governmental statute, regulation, ordinance or resolution as these laws are amended from time to time.

E. The obligations of this Section shall survive the expiration or other termination of this Lease.

F. Prior to commencement of construction of the Communication Facilities on the Site, Lessee shall perform any environmental assessment required for Lessee's Permitted Use by any local, state, tribal or federal authorities.

7. RENEWAL/CANCELLATION/DEFAULT.

A. This Lease may be renewed for an additional twenty-five (25) year term or for a term of less than twenty-five (25) years by mutual agreement in writing. The consideration for this Lease is subject to adjustment at the time of any such renewal by agreement of the Parties.

B. This Lease may be terminated by Lessee for any reason or no reason by giving ninety (90) days notice in writing to Lessor, and if the effective termination date is after the Lease Commencement Date Lessee shall pay Lessor an early termination fee equal to three (3) months of the then current Rent on or before the effective termination date. Lessee may also terminate this Lease upon thirty (30) days written notice to Lessor if (i) Lessee determines that it cannot obtain the Government Approvals required to employ the Site for the use described in this Lease, or if any necessary approval is revoked or terminated, or (ii) if Lessee or Lessee's vendor of the PSERN System determines that, for technical, design, interference, environmental, economic or title reasons, the Site is not necessary or suitable for the operation of the PSERN System or the use described in this Lease.

C. In the event that Lessor elects to no longer use the Property as a communication facility, Lessor shall have the right to terminate this Lease by giving one (1) year prior written notice thereof to Lessee.

D. In accordance with Federal law, the Secretary may terminate this Lease for Lessee's failure to comply with any material term or condition of this Lease or applicable Federal law; *provided*, that this Lease shall not be terminated if: (a) Lessee's failure is cured within thirty (30) days of notice of such failure; or (b) Lessee's failure pertains to a matter other than the payment of any monies due under this Lease, Lessee promptly commences to cure the failure, Lessee diligently pursues such action with continuity to completion, and completion takes place within such reasonable time as may be specified by the Secretary.

E. If Lessor should fail to remedy any default in the keeping of any term, covenant or condition herein with all reasonable dispatch, within a reasonable period of time no sooner than thirty (30) days after receipt of written notice within which time frame said default has not been cured, then in any of such event(s), Lessee shall have the right, at its option, in addition to and not exclusive of any other remedy Lessee may have by operation of applicable laws, to remedy Lessor's failure to perform or terminate this Lease upon written notice to Lessor.

F. Subject to Sections 8.B and 28 herein, upon termination or expiration of this Lease, Lessee shall remove its equipment and/or improvements and will restore the Leased Premises to substantially the same condition existing as of the Lease Commencement Date, normal wear and tear and damage beyond Lessee's reasonable control excepted.

8. OWNERSHIP OF PERSONAL PROPERTY PLACED BY LESSEE.

A. Title to the Communication Facilities, including but not limited to a building or equipment, installed and/or located on the Leased Premises by the Lessee shall vest and remain with the Lessee. Lessor hereby waives any and all lien rights it may have, under any theory of law, statute or otherwise, concerning the Lessee's Communication Facilities or any portion thereof on the Leased Premises. All buildings, tower, equipment or other improvements existing on the Leased Premises prior to the Effective Date of this Lease, or placed by Lessor on the Leased Premises subsequent to the Effective Date of this Lease, shall be and remain the property of the Lessor during the term of this Lease, including any renewal thereof.

B. Lessee shall have the right to remove the Communication Facilities at any time prior to and within sixty (60) days after the expiration or earlier termination of this Lease, subject to Section 28 below; provided, however, upon receipt of Lessor's prior written consent, Lessee may elect not to remove all or any of its improvements from the Property.

9. EXISTING AUTHORIZED USES.

Lessee's rights under this Lease are subject to any prior valid existing right or adverse claim. Lessee's rights under this Lease are subject to existing authorized uses of the Leased Premises (including existing use for the installation, operation and transmission of utility services by the Tribe and/or by third parties authorized by the Tribe, including Tribal utilities, water, sewer, electric, natural gas, television, telephone, fiber optic and data); *provided*, however, such existing authorized uses do not interfere with Lessee's activities that are authorized by this Lease.

10. COMPLIANCE WITH LAW.

Lessee, its employees, agents, and contractors (including subcontractors) shall comply with all applicable Tribal, Federal and State laws when conducting any activity pursuant to this Lease that occurs upon or affects the Leased Premises.

11. UTILITIES.

Lessee shall have the right to obtain all utilities necessary for operation of the Communication Facilities from a servicing utility provider, the installation and maintenance thereof shall be the Lessee's sole obligation, provided that the location of such installation shall be subject to the written consent of the Lessor, which the Lessor will not unreasonably withhold, delay or condition. The Lessee shall pay, as they become due, all bills for electricity and other utilities that are furnished to the Communication Facilities. In the event Lessee cannot secure its own metered electrical supply, Lessee may submeter from Lessor, in which event Lessee will read the submeter on an annual basis and will reimburse Lessor on each anniversary of the Lease Commencement Date for the electricity used by Lessee during the prior lease year.

12. EXISTING UTILITIES.

Lessee will seek to locate all existing utilities prior to, and avoid any damage to existing utilities during, use of the rights granted under this Lease. Lessee will cooperate with utility owners and/or operators to arrange for the prompt repair of any such damage, and shall promptly reimburse the utility owner and/or operator for the cost of such repair.

Lessee shall comply with RCW 19.122 "Underground Utilities" (or any future successor of or replacement for RCW 19.122), in connection with this Lease and any activity it undertakes or utilities it installs pursuant to this Lease. Such compliance shall be in addition to, and not a replacement for or excuse from, compliance with any otherwise applicable existing or future Tribal law or requirement of this Lease.

13. LESSOR'S USE OF PROPERTY.

Lessee shall have exclusive use of the Exclusive Use Area on the Site where the Communication Facilities are installed, provided that Lessee's use of access and utility easements and routes on the Property shall be non-exclusive. Lessor reserves the right to use the Leased Premises for those purposes set out in Section 24 herein below, provided such use is not

inconsistent with the rights herein granted. Lessee agrees not to interfere with the use of the Leased Premises for any purpose not inconsistent with the primary purpose for which this Lease was entered into.

14. WORKMANLIKE MANNER.

Lessee and its employees, agents and contractors (including subcontractors) shall exercise the rights conveyed by this Lease in a workmanlike manner.

15. PERMITS.

Before beginning any activity on the Leased Premises, Lessee, its employees, agents, and contractors (including subcontractors) shall obtain all necessary permits, including all necessary Tribal, Federal or State permits, licenses and approvals ("Government Approvals"), in connection with Lessee's occupancy and use of the Leased Premises, including any survey, construction, operation, inspection, alteration, improvement, maintenance, replacement, or repair activity in the Leased Premises. Lessee, its employees, agents and contractors (including subcontractors) shall comply with any and all conditions of said Government Approvals and shall conform all activity and work to applicable site plans associated with Government Approvals. Lessor hereby authorizes Lessee to make and sign as Lessor's agent any and all applications and/or submissions necessary to obtain all Government Approvals from all applicable governmental and/or regulatory entities required for Lessee's Permitted Use of the Communication Facilities within the Site. Lessor agrees to reasonably assist Lessee with such applications and with obtaining and maintaining the Government Approvals during the term of this Lease.

16. FIRE CONTROL.

Lessee will conduct its activities on and near the Leased Premises so as to reasonably prevent fires on or near the Leased Premises.

17. CULTURAL RESOURCES.

Lessee agrees that during the term of this Lease, if any previously unidentified cultural resources are discovered within the Leased Premises, that any activity that disturbs or threatens to disturb such cultural resources shall be halted immediately and the Tribe shall be contacted immediately.

18. HOLD HARMLESS.

A. Lessee agrees to indemnify and hold Lessor harmless as provided herein to the maximum extent possible under law. Accordingly, Lessee agrees for itself, its successors, and assigns, to defend, indemnify, and hold harmless Lessor, its appointed and elected officials, and employees from and against liability for all Claims, including costs of defense thereof for injury to persons, death, or property damage which is caused by or arises out of Lessee's exercise of rights and privileges granted by this Lease, except to the extent of the Lessor's negligence.

B. Lessor agrees to indemnify and hold Lessee harmless as provided herein to the maximum extent possible under law. Accordingly, the Lessor agrees for itself, its successors, and assigns, to defend, indemnify, and hold harmless Lessee, its appointed and elected officials, and employees from and against liability for all Claims, including costs of defense thereof for injury to persons, death, or property damage which is caused by or arises out of Lessor's exercise of rights and privileges granted by this Lease, except to the extent of the Lessee's negligence.

C. Where such Claims result from the concurrent negligence of the Parties, the provisions provided in this Section shall be valid and enforceable only to the extent of each Party's negligence.

D. Each of the Parties agrees that its obligations under this Section 18 extend to any Claim brought by, or on behalf of, any of its employees or agents. For this purpose, each of the Parties, by mutual negotiation, hereby waives, with respect to the other Party only, any immunity that would otherwise be available against such Claims under the industrial insurance provisions of Title 51 RCW; provided that such waiver of immunity shall apply only in the event that both Parties carry industrial insurance in compliance with Title 51 RCW.

E. In the event that any of the Parties incurs any judgment, award, and/or cost arising therefrom, including attorney fees, expenses, and costs shall be recoverable from the responsible Party to the extent of that Party's negligence.

F. The provisions of this Section 18 do not apply to Claims that are subject to Section 6.

19. FEDERAL SUPERVISION.

A. The Tribe has granted the fee simple interest in the Property to the United States of America ("United States"), by and through the Department of the Interior ("DOI"), to hold in trust for the Tribe. In accordance with applicable Federal laws, the Bureau of Indian Affairs ("BIA"), an agency within the DOI, administers and manages on behalf of the DOI tribal lands held in trust by the United States. For purposes of this Lease, the Superintendent of the Puget Sound Agency of the BIA and the Secretary of the DOI, and each of their authorized representatives, are collectively referred to herein as the "Secretary."

B. As long as any portion of the Leased Premises is held in trust or restricted status by the United States, all of Lessee's obligations under this Lease, and the obligations of its sublessees, assignees and sureties, shall be to the United States as well as to Lessor. Nothing contained in this Lease shall operate to delay or prevent a termination of federal trust responsibilities with respect to the Leased Premises by the issuance of a fee patent or otherwise during the term of the Lease; however, such termination shall not serve to abrogate the Lease. In the event of such termination, all powers, duties or other functions

of the United States or its authorized representative shall terminate, and the responsibilities for enforcing compliance with the covenants of this Lease shall be assumed by the Lessor or successors in interest. The owners of the Leased Premises and the Lessee, its sublessees and assigns and their sureties shall be notified of any such change in the status of the Leased Premises.

C. No member of Congress or any delegate thereto shall be admitted to any share or part of this Lease or to any benefit that may arise here from.

D. It is understood and agreed that violations of this Lease shall be acted upon in accordance with the regulations in 25 C.F.R. Part 162.

E. It is understood and agreed that this Lease shall be valid and binding only after approval by the Secretary, as evidenced by the Secretary's signature on this Lease below.

20. ASSIGNMENT AND SUBLEASE.

A. Lessee shall not assign or sublet this Lease, in whole or in part, without the prior written consent of the Lessor and the Secretary, which consent shall not be unreasonably withheld, delayed or conditioned.

B. Any sublessee or assignee shall comply with all applicable laws of the Tribe and the United States.

C. Lessor acknowledges that Lessee and other municipalities participating in the PSERN System intend to establish a new governmental non-profit entity that will eventually own and operate the PSERN System. Notwithstanding anything in this Lease to the contrary, Lessee may assign its interest in this Lease, without the Secretary's or Lessor's consent, to that governmental non-profit entity or to any entity existing now or in the future that will be responsible for the operation, maintenance, management, updating and upgrade or replacement of the PSERN System as authorized by law.

D. In the event of an assignment, the assignee shall assume all liability of the assignor and Lessee will be relieved of all future performance, liabilities and obligations under this Lease to the extent of such assignment.

21. MODIFICATIONS AND AMENDMENTS.

Any modifications or amendments to this Lease must be approved in writing by the Lessor, Lessee and the Secretary.

22. LATE PAYMENT INTEREST.

It is understood and agreed between the Parties hereto that, if any installment of rent is not paid within sixty (60) days after becoming due, interest will be assessed at twelve percent (12%) per annum, from the date due until paid in full.

23. INSURANCE.

A. Lessee maintains a fully funded Self-Insurance program for the protection and handling of the Lessee's liabilities including injuries to persons and damage to property.

B. Lessor acknowledges, agrees and understands that Lessee is self-funded for all of its liability exposures. Lessee agrees, at its own expense, to maintain, through its fully funded Self-Insurance program, coverage for all of its liability exposures for this Lease. Lessee agrees to provide Lessor with at least thirty (30) days prior written notice of any material change in Lessee's self-funded insurance program and will provide Lessor with a letter of self-insurance as adequate proof of coverage. Lessor further acknowledges, agrees and understands that Lessee does not purchase Commercial General Liability insurance and is a self-insured governmental entity; therefore Lessee does not have the ability to name Lessor as an additional insured.

C. If Lessor is not a governmental agency which maintains a fully funded Self-Insurance program in accordance with applicable law, Lessor will maintain Commercial General Liability insurance in the amount of One Million Dollars (\$1,000,000) per occurrence and Two Million Dollars (\$2,000,000) general aggregate, based on ISO Form CG 00 01 or equivalent, and will include Lessee as an additional insured with respect to claims arising out of or related to this Lease.

D. Lessor shall carry "All Risk" property insurance in an amount equal to the full replacement value of its improvements on the Property, including Lessor's existing tower.

E. Lessee shall maintain "All Risk" property insurance in an amount equal to the full replacement value of all its improvements and personal property located on the Leased Premises or shall self-insure improvements and personal property on the Leased Premises.

24. RESERVATIONS.

Lessee shall use the Site exclusively for purposes of communications, except as otherwise agreed to by the Parties in writing. Any rights not expressly provided are reserved by the Lessor, including:

Minerals: The Lessor reserves all rights, as owned by the Lessor, to all mineral rights, including but not limited to oil, gas, or hydrocarbon substances, excluding those brought onto the Property by or at Lessee's direction for its use of the Communication Facilities.

Timber: The Lessor reserves all rights, as owned by the Lessor to timber and forest products on the Leased Premises.

Water: The Lessor reserves all rights, as owned by the Lessor, to water on, under, for the use of or reserved by the United States in connection with the reservation of the Leased Premises.

Easements and Rights of Way: The Lessor reserves the right to establish and utilize such easements, rights of way or service line areas as shall be reasonably necessary from time to time for the provision and installation of public infrastructure including but not limited to conveyances for water, sewer, gas, electrical, cable television, fiber optic, telephone and any other utility benefiting the Lessor.

25. ASSENT NOT WAIVER OF FUTURE BREACH OF COVENANTS.

No assent, express or implied, to any breach of any of the Lessee's covenants, shall be deemed to be a waiver of any succeeding breach of any covenants.

26. VIOLATIONS OF LEASE.

The negotiation and execution of this Lease shall be deemed by the Parties to have occurred within the Port Madison Indian Reservation and Lessee acknowledges that it has voluntarily entered into a consensual contractual relationship with the Tribe. Except for resolution of disputes, as provided in Section 33 herein, it is understood and agreed by the Parties that violations of this Lease shall be acted upon according to the laws of the Suquamish Tribe and, in the absence of any applicable Suquamish Tribal authority, according to the regulations in 25 C.F.R. Part 162 and all other applicable Federal statutory and regulatory provisions. Notwithstanding the forgoing, if there are any discrepancies between the terms of Section 33, Dispute Resolution, and the terms set forth in this Section, the terms of Section 33 shall control.

27. CARE OF PREMISES.

A. It is understood and agreed that the Lessee is to keep its Communication Facilities and those areas of the Site used exclusively by Lessee in good condition and repair. Lessee shall not commit or permit to be committed any waste whatever on the Leased Premises and shall not remove or tear down any building or other improvements thereto owned by another. Lessee shall not destroy or permit to be destroyed any trees, except with the consent of the Lessor, and shall not permit the Leased Premises to become unsightly. The Lessee will be held financially responsible for all unrepaired damages to improvements or appearance caused by Lessee, except for the usual wear, tear and decay.

B. Lessor shall maintain its tower, the Site and the Property (except for Lessee's Communication Facilities), including access to the Leased Premises from Dewberry Road, in good repair and tenantable condition during the term of this Lease.

C. Notwithstanding anything in this Lease to the contrary, Lessor shall not maintain, repair or otherwise touch or interfere with Lessee's Communication Facilities without Lessee's prior consent; provided that, in the event of an emergency posing an imminent threat of bodily injury or property damage, Lessor may take action necessary to abate the

threat and shall give Lessee notice of such actions taken as soon as is reasonably possible thereafter.

28 SITE RESTORATION.

The Lessee shall surrender possession of the Leased Premises upon the expiration or termination of this Lease and, if required by the Lessor, shall within sixty (60) days thereafter, or within such additional time as may be mutually agreed upon, return the Leased Premises in as good condition as is possible as that existing at the time of entering upon the same under this Lease, normal wear and tear and damage beyond Lessee's reasonable control excepted; provided that, if the Lessor requires the return of the Leased Premises in such condition, the Lessor shall give written notice thereof to the Lessee at least thirty (30) days before the expiration or termination of the Lease. The restoration of the Leased Premises as aforesaid shall include, but not be limited to, the removal of all debris, concrete slabs and foundations placed by Lessee; the filling of holes and depressions created by Lessee; and grading as required in conjunction with the foregoing. Failing to comply with this stipulation, Lessee agrees to bear all expenses and costs incurred by the Tribe and/or the United States in accomplishing said restoration.

29. INSPECTION OF THE PREMISES.

The Lessor and the Secretary, and their authorized representatives, shall have the rights, at any reasonable times during the term of this Lease, and with reasonable notice, to enter upon the Leased Premises, or any part thereof, to inspect the same and all buildings and other improvements erected and placed thereon.

30 COMPLETE AGREEMENT AND CONSTRUCTION.

A. This Lease contains the complete statement of the understanding of the Parties with respect to the subject matter of this Lease. There are no other representations, agreements, or understandings, oral or written, by the Parties relating to the subject matter of this Lease that are not fully expressed in this Lease. Each Party acknowledges and represents to the other Party that it is executing this Lease solely in reliance upon its own judgment and knowledge and that it is not executing this Lease based upon the representation or covenant of the other Party, or anyone acting on such Party's behalf, except as expressly stated herein.

B. This Lease has been freely and fairly negotiated by the Parties hereto, each of whom has had the full opportunity to consult legal counsel and to modify the draftsmanship hereof, and, therefore, the terms of this Lease shall be construed and interpreted without any presumption or other rule requiring constructional interpretation against the Party causing the drafting of the Lease.

31. SEVERABILITY.

In the event any term or condition of this Lease or application thereof to any person or circumstance is held invalid, such invalidity shall not affect other terms, conditions, or

applications of this Lease, which can be given effect without the invalid term, condition, or application. To this end, the terms and conditions of this Lease are declared severable; *provided*, however, that this paragraph is not applicable to the following paragraph 32 of this Lease.

32. TRIBAL SOVEREIGNTY.

This Lease shall in no manner diminish, affect or limit any aspect of the Tribe's jurisdiction, dominion or control, whether civil, criminal, regulatory, adjudicatory, licensing, taxation or otherwise, over the Leased Premises, or over anyone or anything thereon or therein, or any activities taking place on, over or under the Leased Premises, without regard to whether the person or entity being regulated is a Tribal member, other Native American or non-Indian person or entity, or State or local governmental authority. This provision is an essential and indivisible part of this Lease; should this provision, at the request of Lessee or its employees, agents, or contractors (including subcontractors), or any person or entity acting in concert with Lessee, be struck down, ruled unenforceable, or ineffective, or in any manner limited, this Lease shall be void and the rights granted by this Lease shall terminate immediately. Nothing whatsoever in this Lease constitutes or shall be construed as a waiver of Tribe's sovereign immunity, except to the extent the Tribe consents to the dispute resolution provisions provided in Section 33 below.

33. DISPUTE RESOLUTION.

A. Purpose. The Parties intend to resolve their disputes through direct discussion and, if such is not possible, then the Parties consent and will use the dispute resolution framework established in this Section. All stated time frames for resolving disputes may be lengthened by mutual consent.

B. Direct Discussions. To initiate dispute resolution under this Section, the complaining Party will first submit a written complaint letter to the respective Party's Representative (defined in Section 35) against whom a dispute is lodged, stating therein the nature of the dispute, the requested resolution, and the factual basis supporting the requested resolution. The responding Party will, within ten (10) business days of receiving the complaint letter, provide a written response, stating its agreement or disagreement with the nature of the dispute and the requested resolution. If the responding Party disagrees with the complaint or the proposed resolution, the written response must provide at least one alternate resolution and the factual basis supporting such resolution(s). Thereafter, the Representatives of each Party will, for fifteen (15) business days, make a good faith attempt to resolve the dispute through one or more direct discussions. If no mutually acceptable resolution is reached, the Representatives will prepare a joint statement within five (5) business days, which includes a chronology, a synopsis of the discussions that took place and the last stated positions of each Party.

C. Mediation. If direct discussions between the Parties fail to resolve the dispute, either Party may, within five (5) business days of completing the direct discussion process, make a written request for mediation to be conducted in Seattle, Washington or at another place as the Parties may agree in writing. If both Parties agree to engage in

mediation, the Parties shall seek a mutually acceptable mediator. If the Parties cannot reach agreement on the selection of the mediator within fifteen (15) business days of the date the written mediation request letter was received by the other Party or Parties, the mediation will be administered by J.A.M.S., Seattle, Washington Office using a J.A.M.S. mediator and protocol, or another mutually agreeable dispute resolution service and protocol. Enforcement of a mediation agreement reached shall be the same as enforcement of an arbitration decision as set forth herein. If a Party objects to proceeding with mediation, then mediation may be bypassed, and the dispute resolved pursuant to arbitration as set forth herein.

D. Binding Arbitration. Should direct discussions prove unsuccessful in resolving the dispute, and either mediation is not requested, is bypassed, or is also unsuccessful, either the complaining or responding Party may make a written demand for arbitration before a single arbitrator in Poulsbo, Washington or at another place as the Parties may agree in writing. If the Parties cannot reach agreement on the selection of the single arbitrator within fifteen (15) business days of the date the written demand letter was received, the arbitration will be administered by J.A.M.S., Seattle, Washington Office using a J.A.M.S. arbitrator, or another mutually agreeable dispute resolution service. Any arbitrator selected must have a fundamental knowledge of and at least five (5) years' legal experience in contract and construction law and a working knowledge of Indian law. The arbitrator shall have the power to establish a schedule for the hearing, which hearing shall be limited to no more than two (2) consecutive business days to be equally divided between the Parties, including preliminary discovery to the extent the arbitrator deems it necessary and proper under the circumstances, and there shall not be more than two (2) depositions allowed per Party, to make reasonable rules and issue orders necessary for a fair and efficient conduct of the hearing, and to conduct the hearing and administer oaths and affirmations. The arbitrator's decision shall be accompanied by an explanation as to the basis for the award. Washington State contract law shall apply and govern with regard to any dispute over the interpretation of this Lease. Each Party will pay for its own attorneys' fees, and both Parties shall share equally the cost of the arbitrator's fees. All arbitration awards shall be binding upon the Parties and except for a showing of fraud, collusion, or incapacity of the arbitrator, said award cannot be appealed. Relief may include temporary, injunctive or other provisional remedies, along with all other remedies available at law or in equity, except as expressly limited elsewhere in this Lease.

E. Enforcement of Arbitration Award. Upon the issuance of an arbitration award or mediation agreement, the prevailing Party may seek the entry of judgment upon the award in any court of competent jurisdiction, which for purposes of Lessee's enforcement against Tribe means the Suquamish Tribal Court and for Tribe's enforcement against Lessee means federal court based upon diversity or other theory of jurisdiction. If federal court jurisdiction is not available, both Lessee and Tribe agree to submit to Kitsap County Superior Court for enforcement of the award against Lessee. The court of competent jurisdiction shall enforce the decision of the arbitrator and shall not modify, correct, alter or vacate said decision in any way, unless the court finds after notice and hearing upon application of a Party to the arbitration, one or more of the following: (1)

the arbitration decision was procured by corruption, fraud or undue means, (2) there was evident of corruption in the arbitrator, or (3) the arbitrator was guilty of the specific misconduct of refusing to hear evidence pertinent and material to the controversy which prejudiced the rights of a Party. No court shall have jurisdiction to interfere in any way with any pending arbitration. No Party may seek from such court any provisional remedy pending appointment of the arbitrator or the arbitrator's rendition of the award. If the court vacates the arbitration decision, then the court shall direct a rehearing either before the same arbitrator or before a new arbitrator to be chosen in the manner provided in this Section.

F. Limited Waiver of Sovereign Immunity by the Tribe. Except for the limited waiver of sovereign immunity provided in this Section, nothing in this Lease shall be construed as a general or specific waiver of the Tribe's sovereign immunity, which immunities are expressly asserted. The Tribe hereby grants Lessee a limited waiver of sovereign immunity solely for the purpose of dispute resolution as provided in this Section, and such waiver shall not be extended to any other person, agency or entity, except a surety performing under the conditions set out in this Lease ("Limited Waiver"). This Limited Waiver applies only to contractual claims arising out of or under this Lease and does not apply to any non-contractual claims or to claims under any other agreement between the Parties. Furthermore, nothing contained in this Limited Waiver shall be construed to create a contractual relationship with or a cause of action in favor of any third party against the Tribe. This Limited Waiver applies only to the enforcement of a mediation agreement or an arbitration award against the Tribe, provided such mediation agreement or arbitration award has been secured in accordance with the provisions of this Lease.

G. No Requirement of Exhaustion of Tribal Court Remedies. The Parties acknowledge that under the limited waiver of sovereign immunity provided for herein, the assumption of jurisdiction by any arbitrator or court of competent jurisdiction shall not be delayed or curtailed by any doctrine requiring exhaustion of Tribal court remedies.

H. No Consent to Washington State Court. The Tribe expressly states and the Lessee understands and acknowledges that the Tribe does not consent to the jurisdiction of the State of Washington or any other state court for any purpose, except if necessary to enforce an award against Lessee as set forth above.

I. Provisional Remedy Pending Arbitration. The Parties hereby acknowledge and agree that the intent of the PSERN System is to provide dispatch services for first-responders and that any shut-down of Lessee's Communication Facilities, as a result of a dispute between the Parties, would result in a failure of such emergency dispatch services in the geographic area covered by this Site. Therefore, notwithstanding anything to the contrary contained in this Lease, the Parties hereby agree that, so long as no emergency exists that would result in immediate bodily injury or death or sever property damage if the Communication Facilities remains operational, Lessee shall have the right to do all work necessary to maintain and operate the Communication Facilities, unobstructed, at

all times when a dispute is ongoing between the Parties, until the dispute has been resolved and enforced in accordance with the terms of this Section.

34. SUCCESSORS.

This Lease shall be binding upon and inure to the benefit of successors of both Parties.

35. NOTICES AND COMMUNICATIONS.

Lessee shall at all times keep Lessor and the Secretary informed of its address. The Tribe shall at all times keep Lessee informed of its address. Currently, all written notices required under this Lease shall be sent by certified mail, return receipt requested, or reliable overnight courier to the address listed below, and shall be deemed effective upon receipt, refusal or if returned undeliverable:

A. Notice to LESSEE:

King County Facilities Management Division
Real Estate Services
Attention: Leasing Supervisor
Re: Suquamish PSERN Lease
500 Fourth Avenue, Suite 830
Seattle, WA 98104

With Copy To:

King County Facilities Management Division
Director's Office
Attention: Gail Houser
RE: Suquamish PSERN Lease
500 Fourth Avenue, Suite 800
Seattle, WA 98104

With Copy To:

King County Department of Information Technology
Puget Sound Emergency Radio Network
Attention: Marlin Blizinsky
RE: Suquamish PSERN Lease
401 Fifth Avenue, Suite 600
Seattle, WA 98104

B. Notice to LESSOR:

Suquamish Tribe
Attn: Executive Director/Deputy Executive Director
PO Box 498
Suquamish, WA 98392

With a copy to:

Suquamish Tribal Attorney
PO Box 498
Suquamish, WA 98392

And, so long as the Leased Premises are held in trust or restricted status, a copy to:

United States Department of the Interior
Bureau of Indian Affairs
Puget Sound Agency
2707 Colby Avenue, Suite 1101
Everett, WA 98201

Both Parties shall appoint a representative to have responsibility for activities carried out under this Lease and to resolve any disputes that may arise between the Parties ("Representative"), which shall be resolved in accordance with Section 33, Dispute Resolution.

36. DISASTER.

In the event the Leased Premises is destroyed or damaged by fire, earthquake or other casualty so as to render the Site unfit for Lessee's use as provided for herein, Lessee may terminate this Lease and shall be reimbursed for any unearned Rent that has been paid less any utility costs owing. If the Lessee believes it is feasible to relocate the Communication Facilities to a different location on the Property, the Parties agree that the Site and Leased Premises will be relocated. Lessor will provide an interim site for Lessee to locate temporary, mobile Communication Facilities and equipment as necessary to continue service during repair or relocation of the Site and Leased Premises or Communication Facilities. A survey will be prepared for the relocated Site and Leased Premises (including access and utility easements) and the survey will replace Exhibit B attached hereto.

37. REPRESENTATIONS AND WARRANTIES

Lessor represents, warrants and agrees that: (i) the Property is held in trust by the United States, for the benefit of Lessor, and Lessor has the full right, power and authority to grant this Lease to Lessee subject to approval by the Secretary; (ii) the Property is not and will not be encumbered by any liens, restrictions, mortgages, covenants, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Lessee's rights under this Lease; and (iii) Lessor's execution and performance of this Lease will not violate any laws, covenants or the provisions of any mortgage, lease or other agreement binding on Lessor.

38. NON-DISCRIMINATION.

Lessee and Lessor, for themselves, their successors, and assigns as a part of the consideration hereof, do hereby covenant and agree to comply with all civil rights and anti-discrimination requirements of federal, state or local laws applicable to the Property, including, without limitation, Chapter 49.60 RCW. Lessee and Lessor shall not discriminate on the basis of race, color, marital status, national origin, religious affiliation, disability, sexual orientation, gender identity or expression or age except by minimum age and retirement provisions, unless based upon a bona fide occupational qualification, in the employment or application for employment or in the administration or delivery of services or any other benefits under King County Code Ch. 12.16.125. Lessee shall comply fully with all applicable federal, state and local laws, ordinances, executive orders and regulations that prohibit such discrimination. These laws include, but are not limited to, Chapter 49.60 RCW, and Titles VI and VII of the Civil Rights Act of 1964. Any violation of this provision shall be considered a default of this Lease and shall be grounds for cancellation, termination, or suspension, in whole or in part, of the Lease and may result in ineligibility for further agreements between the Parties.

39. MISCELLANEOUS.

A. COUNTERPARTS: This Lease may be executed in any number of counterparts, each of which, when so executed and delivered, shall be an original, but such counterparts shall together constitute but one and the same.

B. MEMORANDUM OF LEASE: Lessor agrees to sign a short form Memorandum of Lease that Lessee may record at Lessee's expense.

C. LIMITATION OF LIABILITY. Except for the indemnity obligations set forth in this Lease, and otherwise notwithstanding anything to the contrary contained in this Lease, Lessee and Tribe each waives any claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the Parties hereto have duly executed the Lease.

LESSEE: King County

By: Anthony O. Wright

Its: Director, Facilities Management Division

Date: _____

STATE OF WASHINGTON)
) ss.
COUNTY OF KING)

On this _____ day of _____, 20____, before me personally appeared Anthony O. Wright, who acknowledged that he has authority to execute the instrument and acknowledged it as the Director, Facilities Management Division, of King County to be the free and voluntary act of such Party for the uses and purposes mentioned in the instrument.

In witness whereof I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public in and for the State of Washington
Residing at _____
My commission expires _____

Approved as to form:

Busch Law Firm PLLC

LESSOR: Suquamish Tribe of the Port Madison Indian Reservation

By: Leonard Forsman

Its: Chairman

Date: _____

STATE OF WASHINGTON)
) ss.
COUNTY OF KITSAP

On this _____ day of _____, 20____, before me personally appeared Leonard Forsman, who acknowledged that he has authority to execute this instrument and acknowledged it as the Chairman of the Suquamish Tribe of the Port Madison Indian Reservation to be the free and voluntary act of such Party for the uses and purposes mentioned in the instrument.

In witness whereof I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public in and for the State of Washington
Residing at _____
My commission expires _____

APPROVED:

Secretary

Date _____

Approved pursuant to 209 DM 8, 230 DM 1,3 IAM 4, 4A

EXHIBIT A
Site and Property

Legal Description of the Indianola Forest and Cell Tower Site:

A portion of the Southwest quarter of the Northwest quarter of Section 11, Township 26 North, Range 2 East, W.M., Kitsap County, Washington, described as follows:

Beginning at the Northwest corner of said Section 11;
 Thence along the North line of said Section 11, South 88° 27' 12" East 666.36 feet;
 Thence South 01° 21' 38" West 2037.49 feet to the Southeast corner of the Northwest quarter of said Southwest quarter of the Northwest quarter of Section 11 and the True Point of Beginning;
 Thence along the East line of said subdivision, North 01° 21' 38" East 67.11 feet;
 Thence South 88° 38' 22" East 136.21 feet;
 Thence South 01° 21' 38" West 452.97 feet;
 Thence North 88° 38' 22" West 421.39 feet;
 Thence North 01° 21' 38" East 383.68 feet to a point on the South line of said Northwest quarter of the Southwest quarter of the Northwest quarter of Section 11;
 Thence along said South line South 89° 04' 37" East 285.19 feet to the True Point of Beginning.

Legal Description of the Property:

Parcel I:

The West half of the Northwest quarter of Section 11, Township 26 North, Range 2 East, W.M., in Kitsap County, Washington;

Except the North half thereof;
 And except the Northwest quarter of the South half thereof;

Parcel II:

Easements for ingress, egress and utilities over, under and across that certain land described in documents recorded under Recording Nos. 9102250027 and 9202070041, records of Kitsap County, Washington.

APN/Parcel ID: 112602-2-007-2000

EXHIBIT B
(Page 1 of 3)

Depiction of Property, Site and Exclusive Use Area

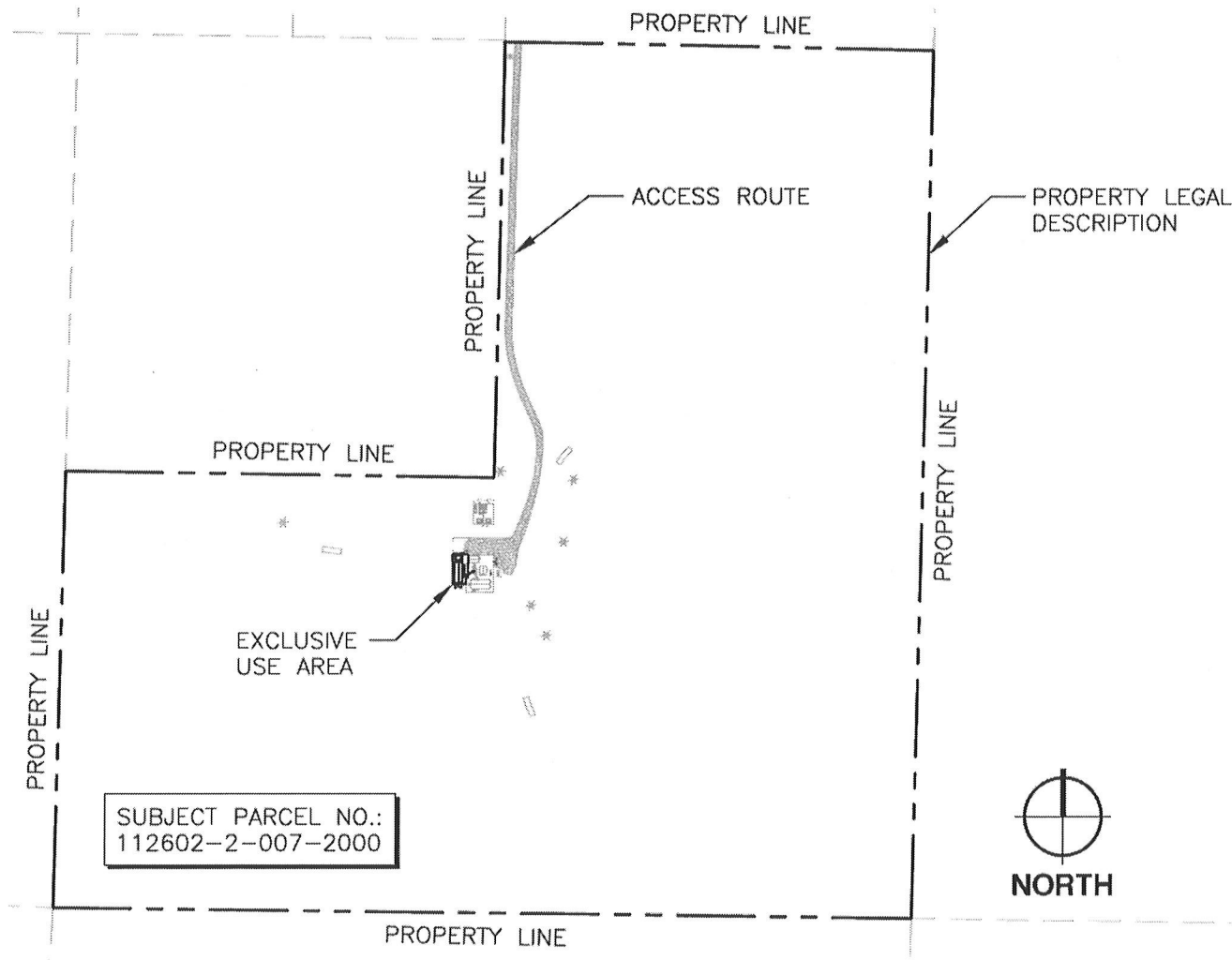


EXHIBIT B
(Page 2 of 3)

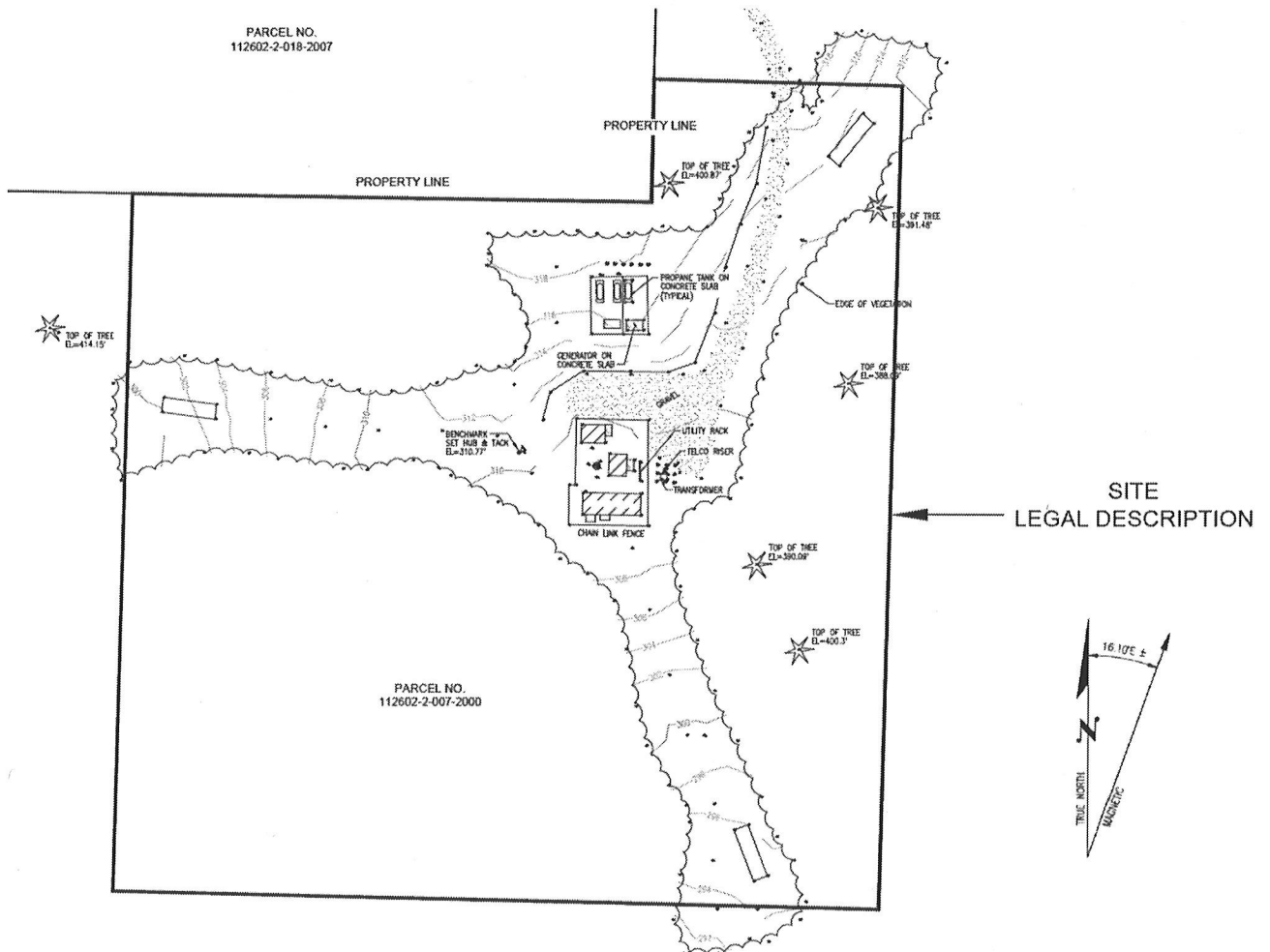


EXHIBIT B
(Page 3 of 3)

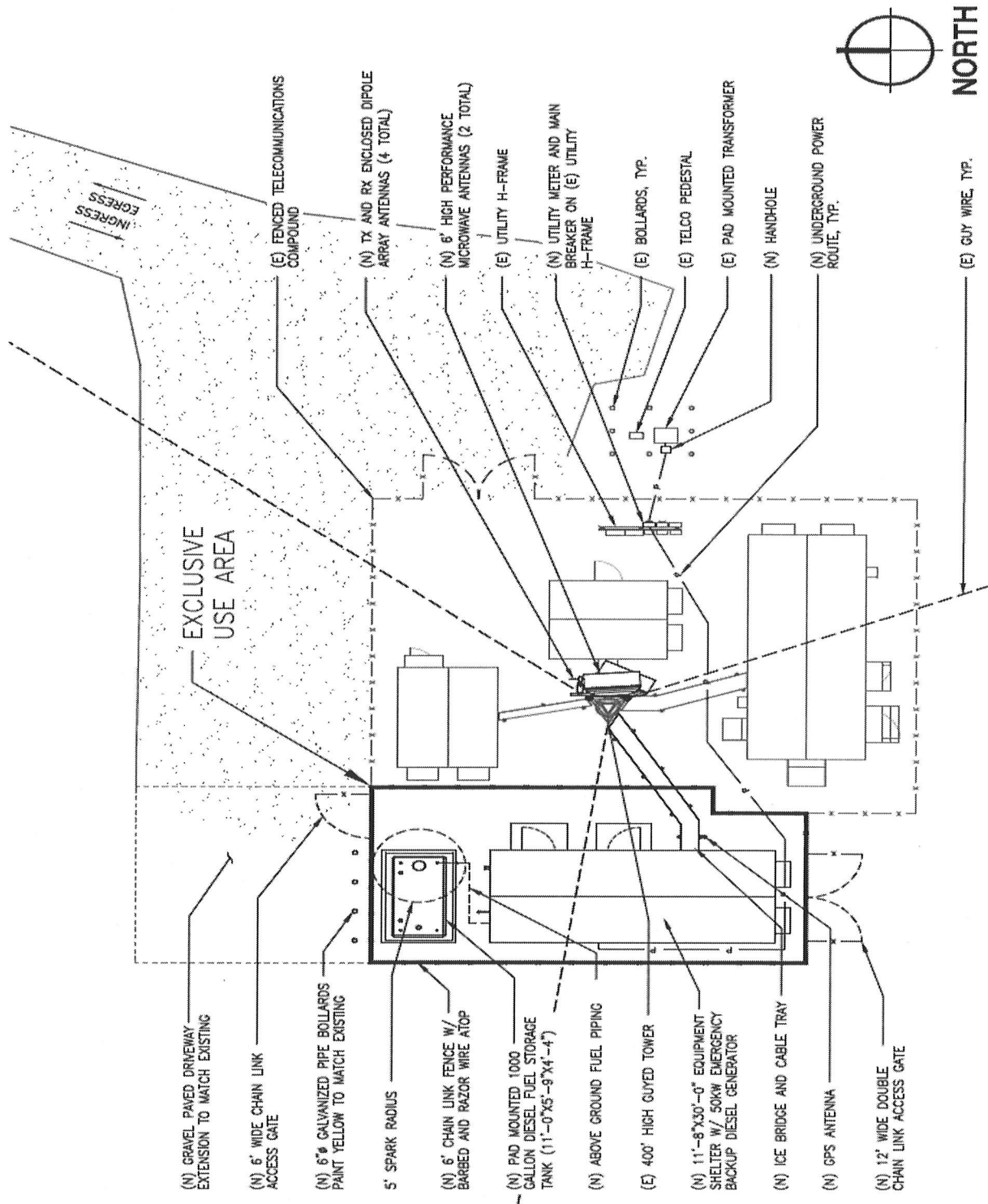


EXHIBIT C**SUQUAMISH TOWER SITE LEASE
RATE SCHEDULE**

Description	2017	2018	2019	2020	2021	2022
Space in Building (per sq. ft.)	\$2.24	2.29	2.34	2.39	2.44	2.50
Land Space (per sq.ft.)	\$1.60	1.64	1.68	1.72	1.76	1.80
Up to 200' Antenna Height to Ground (per ft.)	0.57	0.58	0.59	0.60	0.61	0.62
Over 200' Antenna Height to Ground (per ft.)	0.83	0.85	0.87	0.89	0.91	0.93
Antennas & Sizes						
4' Enclosed Dipole Array	31.84	32.56	33.29	34.04	34.81	35.59
6' High Performance Microwave	38.31	39.17	40.05	40.95	41.87	42.81
8' Enclosed Dipole Array	44.70	45.71	46.74	47.79	48.87	49.97

NOTE: Annual increase at 2.25% each year
for each rate.

Rate Card for 2017

Antenna	Base Rate	Height	Multiplier	Ht per Mo.	Mo. Total	12 mo. Total
Tower Mounted Amplifier	24.98	140'	0.57	79.8	104.78	1257.36
4' Enclosed Dipole Array	31.84	120'	0.57	68.40	100.24	1202.88
4' Enclosed Dipole Array	31.84	120'	0.57	68.40	100.24	1202.88
6' High Performance Microwave	38.31	240'	0.83	239.04	277.35	3328.20
6' High Performance Microwave	38.31	288'	0.83	239.04	277.35	3328.20
8' Enclosed Dipole Array	44.70	140'	0.57	79.80	124.50	1494.00
8' Enclosed Dipole Array	44.70	140'	0.57	79.80	124.50	1494.00
Sub-Total Antenna					1108.96	13307.52
Leased Land Space (1083 sq. ft)	1083'		1.60		1732.80	20793.60
2017 TOTAL					\$2,841.76	\$34,101.12

EXHIBIT D

Construction Plans

(attached hereto)

SHEET INDEX

ARCHITECTURAL
T-1 TITLE SHEET
SP-1 GENERAL NOTES
SP-2 SPECIAL INSPECTIONS
C-1.0 CIVIL SURVEY
C-1.1 CIVIL SURVEY
A-1 ADJACENT PARCEL & ZONING
A-2 OVERALL EXISTING SITE PLAN
A-3 ENLARGED PROPOSED SITE PLAN
A-4 ANTENNA PLAN
A-5.0 SOUTH ELEVATIONS
A-5.1 NORTH ELEVATIONS
A-6.0 DETAILS
A-6.1 DETAILS
A-7 EQUIPMENT SHELTER PLAN AND ELEVATIONS
A-8 FUEL TANK DETAIL AND SIGNAGE

CIVIL
C1.1 COVER SHEET AND GENERAL NOTES
C2.1 TEMPORARY EROSION CONTROL PLAN
C2.2 TEMPORARY EROSION CONTROL DETAILS
C3.1 GRADING AND DRAINAGE PLAN

STRUCTURAL
F1.1 BUILDING AND FUEL TANK FOUNDATIONS STRUCTURAL NOTES
F2.1 BUILDING AND TANK FOUNDATION PLANS AND DETAILS

MECHANICAL
M1.0 MECHANICAL PLAN

ELECTRICAL
E-1 ELECTRICAL ONE LINE DIAGRAM
E-2 ELECTRICAL SITE PLAN
E-3 GROUNDING PLAN & NOTES
E-4 ANTENNA GROUNDING PLANS & NOTES
E-5 GROUNDING DETAILS & NOTES

WASHINGTON STATE CODE COMPLIANCE:

2015 IBC, STANDARDS AND AMENDMENTS, WAC 51-50
2015 IMC, STANDARDS AND AMENDMENTS, WAC 51-52
2015 IFB, STANDARDS AND AMENDMENTS, WAC 51-54A
2015 UPC, STANDARDS AND AMENDMENTS, WAC 51-56, 51-57
2014 NEC, STANDARDS AND AMENDMENTS, WAC 296-46B
2015 IECC/WASHINGTON STATE ENERGY CODE, WAC 51-11C

PROJECT SUMMARY

PROJECT MANAGER:
KING COUNTY DEPARTMENT OF
INFORMATION TECHNOLOGY (KCIT)
401 5TH AVENUE, 6TH FLOOR
SEATTLE, WA 98104
CONTACT: HAI PHUNG
PHONE: 206-263-7846
MOBILE: 206-550-1656
EMAIL: hai.phung@kingcounty.gov

TECHNICAL LEAD:
KING COUNTY DEPARTMENT OF
INFORMATION TECHNOLOGY (KCIT)
401 5TH AVENUE, 6TH FLOOR
SEATTLE, WA 98104
CONTACT: SEAN DOUGLAS
OFFICE: 206-263-8094
MOBILE: 206-550-1656
EMAIL: Sean.Douglas@KingCounty.gov

CONSTRUCTION MANAGER:
KING COUNTY DEPARTMENT OF
INFORMATION TECHNOLOGY (KCIT)
401 5TH AVENUE, 6TH FLOOR
SEATTLE, WA 98104
CONTACT: JOHN A. E. WRIGHT
OFFICE: 206-263-1403
MOBILE: 206-940-0983
EMAIL: John.Wright@KingCounty.gov

PERMITTING CONTACT:
ODELIA PACIFIC CORPORATION
5506 6TH AVE. S. SUITE 202
SEATTLE, WA 98108
CONTACT: BRYSON BURGHARDT
OFFICE: 206-490-3828
MOBILE: 360-581-8189
EMAIL: BBurghardt@Odelia.com

DESIGN CONSULTANT:
CAMP + ASSOCIATES, INC.
19401 40TH AVE. W. SUITE 304
LYNNWOOD, WA 98036
CONTACT: ERIC CAMP
PHONE: 425-740-6392
EMAIL: Eric.Camp@CAMPASSOC.com

A/E/VENDOR:
ODELIA PACIFIC CORPORATION
5506 6TH AVE. S. SUITE 202
SEATTLE, WA 98108
CONTACT: MARK RILEY
PHONE: 425-443-2128
EMAIL: MRiley@Odelia.com

SITE NAME: SUQUAMISH

SITE ADDRESS: 22063 DEWBERRY RD. NE
INDIANOLA, WA 98342

LAND OWNER: UNITED STATES IN TRUST FOR THE
SUQUAMISH TRIBE OF INDIANS
P.O. BOX 498
SUQUAMISH, WA 98392

JURISDICTION: UNINCORPORATED KITSAP COUNTY

PARCEL NUMBER: 112602-2-007-2000

PARCEL SIZE: 31.23 ACRES

ZONING: T (TRIBAL LAND)

OCCUPANCY: U (UNOCCUPIED)

CONSTRUCTION TYPE: V-B

PROJECT AREA: 4,290.39 SQ. FT.

NEW IMPERVIOUS SURFACES: 1,688.50 SQ. FT.

PROJECT DESCRIPTION:

(THE SCOPE OF WORK INCLUDES)
KING COUNTY PUGET SOUND EMERGENCY RADIO NETWORK (PSERN)
CO-LOCATION ON AN EXISTING 400' GUYED TOWER AND ASSOCIATED
EQUIPMENT TO PROVIDE EMERGENCY RADIO COMMUNICATIONS TO REACH
AND COORDINATE WITH EMERGENCY RESPONDERS.

PUGET SOUND EMERGENCY RADIO NETWORK

(NEW BUILD)

SUQUAMISH
22063 DEWBERRY RD. NE
INDIANOLA, WA 98342

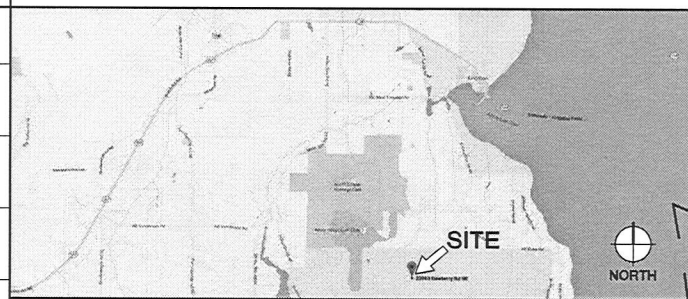
LATITUDE: 47°45'35.17" N (NAD 83)
LONGITUDE: 122°31'03.46" W (NAD 83)
GROUND ELEVATION: 309.36' (NAVD 88)

CONFIDENTIAL AND PROPRIETARY

SIGNATURE BLOCK

TITLE	SIGNATURE	DATE
CONSTRUCTION MANAGER		
RF ENGINEER		
REAL ESTATE		
SITE ACQUISITION		
PROPERTY OWNER		
TOWER OWNER		

AREA MAP



DRIVING DIRECTIONS:

1) HEAD SOUTHEAST ON 5TH AVE. TOWARD TERRACE ST. [154 FT.] 2) TURN RIGHT AT THE 1ST CROSS STREET ONTO TERRACE ST. [594 FT.] 3) SLIGHT RIGHT ONTO YESLER WAY [0.3 MI.] 4) TURN RIGHT ONTO WESTERN AVE. [443 FT.] 5) TURN LEFT ONTO COLUMBIA ST. [243 FT.] 6) TURN LEFT ONTO ALASKAN WAY S [315 FT.] 7) TURN RIGHT AT THE 1ST CROSS STREET ONTO SEATTLE FERRY TERMINAL [489 FT.] 8) CONTINUE STRAIGHT TO STAY ON SEATTLE FERRY TERMINAL [0.1 MI.] 9) TURN RIGHT [167 FT.] 10) TAKE THE SEATTLE - BAINBRIDGE ISLAND FERRY TO BAINBRIDGE ISLAND [29 MIN. - 15.9 MI.] 11) TAKE WA-305 N, MILLER BAY RD. NE AND INDIANOLA RD. NE TO DEWBERRY RD. NE IN INDIANOLA 12) CONTINUE ONTO WA-305 N/OLYMPIC DR. SE [7.3 MI.] 13) TURN RIGHT ONTO SUQUAMISH WAY NE [1.6 MI.] 14) SUQUAMISH WAY NE TURNS SLIGHTLY LEFT AND BECOMES AUGUSTA AVE. NE [0.8 MI.] 15) CONTINUE ONTO MILLER BAY RD. NE [2.5 MI.] 16) TURN RIGHT ONTO INDIANOLA RD. NE [2.7 MI.] 17) TURN LEFT AT KINGSTON RD. NE [0.1 MI.] 18) CONTINUE ONTO S KINGSTON RD. NE [0.8 MI.] 19) TURN RIGHT ONTO DEWBERRY RD. NE [0.1 MI.] 20) TURN LEFT TO STAY ON DEWBERRY RD. NE [APPROX. 400 FT.] 21) TURN RIGHT ON GRAVEL ROAD AND FOLLOW UNTIL YOU REACH THE SITE.



SUQUAMISH

(NEW BUILD)

22063 DEWBERRY RD. NE
INDIANOLA, WA 983425506 6TH AVE. S. SUITE 202
SEATTLE, WA 98108
PHONE: (206) 490-3828
WWW.ODELIA.COM19401 40TH AVE. W. SUITE 304
LYNNWOOD, WA 98036
PHONE: (425) 740-6392
FAX: (425) 740-6392
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: LM

APPROVED BY: PN

08/23/16	ISSUED FOR PERMIT
06/23/16	ISSUED FOR REVIEW
06/17/16	ISSUED FOR REVIEW
05/26/16	ISSUED FOR REVIEW
05/24/16	ISSUED FOR REVIEW

PLAN REVIEWERS SIGNATURE

08/23/2016
ARCHITECT
PAUL NIXON
STATE OF WASHINGTON

08/23/2016
ARCHITECT
PAUL NIXON
STATE OF WASHINGTON

SHEET NAME

TITLE SHEET

SHEET NUMBER

T-1

CONTRACTOR NOTES:

THE ARCHITECT/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERLESS CAUTIONED THAT THE ARCHITECT/ENGINEERS DO NOT ASSUME RESPONSIBILITY FOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLYING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.

GENERAL NOTES:

DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, AND THIS SET OF PLANS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ANYTHING ELSE DEEMED NECESSARY TO COMPLETE INSTALLATIONS AS DESCRIBED HEREIN.

PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE NEW PROJECT, WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS, FIELD CONDITIONS AND CONFIRM THAT THE PROJECT MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY ERRORS, OMISSIONS, OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING.

THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/ VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

ALL WORK PERFORMED ON PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.

THE STRUCTURAL COMPONENTS OF THIS PROJECT SITE/FACILITY ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.

ANTENNA SUPPORTING TOWER IS EXISTING. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION SUB-CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS.

GENERAL CONTRACTOR SHALL PROVIDE AT THE PROJECT SITE A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.

DETAILS INCLUDED HEREIN ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS OR SITUATIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE SCOPE OF WORK.

THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION UPON COMPLETION OF WORK. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

CONTRACTOR SHALL ENSURE THE GENERAL WORK AREA IS KEPT CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND NATIONAL CODES, REGULATIONS AND SAFETY REGULATIONS, ALL OSHA REGULATIONS, ALL PUBLIC AND MUNICIPAL AUTHORITIES, AND ANY UTILITY COMPANY'S REGULATIONS AND DIRECTIVES.

THE DRAWINGS AND SPECIFICATIONS ARE A GENERAL DIRECTIVE FOR THE SCOPE OF WORK. EXACT DIMENSIONS AND LOCATIONS MAY CHANGE IN THE FIELD. THE CONTRACTOR IS TO VERIFY THE DIMENSIONS AND LOCATIONS AND REPORT ANY AND ALL DISCREPANCIES TO REPRESENTATIVE. ANY MINOR ERRORS AND OMISSIONS IN THE DRAWINGS AND SPECIFICATIONS DOES NOT EXCUSE THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.

CONTRACTOR IS RESPONSIBLE FOR FIELD MEASUREMENTS TO CONFIRM LENGTHS OF CABLE TRAYS AND ELECTRICAL LINES AND ANTENNA MOUNTING.

VERIFICATION THAT EXISTING TOWER/POLE/STRUCTURE CAN SUPPORT THE PROPOSED ANTENNA, COAX & ADDITIONAL EQUIPMENT LOADING IS TO BE DONE BY OTHERS.

CIVIL NOTES:

1. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND STIPULATED IN THE SPECIFICATION PROJECT SUMMARY.

2. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DEPOSED OF LEGALLY.

3. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE COMMUNICATIONS EQUIPMENT, TOWER AREAS, AND ADJACENT BUILDINGS.

4. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

5. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO THE CRUSHED STONE APPLICATION.

SUBGRADE AND BASE PREPARATION:

1. FOR SLAB-ON-GRADE CONSTRUCTION IT WILL BE NECESSARY TO OVEREXCAVATE THE SITE BY 2'-0" AND IMPORT AN APPROVED GRANULAR FILL. THE FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY UNIT WEIGHT WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D-1557). COMPACTOR REQUIREMENTS APPLY TO BACKFILL FOR UTILITY TRENCHES AND FOUNDATION EXCAVATIONS WITHIN STRUCTURES, DRIVEWAYS, OR PARKING LOT AREAS.

2. COMPACTON SHALL BE ACCOMPLISHED BY PLACING THE FILL IN SUCCESSIVE, HORIZONTAL, APPROXIMATELY SIX- TO EIGHT-INCH LOOSE LIFTS AND MECHANICALLY COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY.

3. ANY ORGANIC MATERIAL, DELICTERIOUS MATERIAL, OR DISTURBED SOIL SHALL BE REMOVED FROM FLATWORK AREAS.

4. THE GROUND SURFACE SURROUNDING EXTERIOR STRUCTURES SHALL BE SLOPED TO DRAIN AWAY IN ALL DIRECTIONS.

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH A.C.I. 301, A.C.I. 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.

2. UNLESS NOTED OTHERWISE, ALL CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT, AIR-ENTRAINED CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,500 POUNDS PER SQUARE INCH AT 28 DAYS. TYPE I-1 PORTLAND CEMENT WILL BE USED WITH A MAXIMUM AGGREGATE SIZE OF 3/4" AND 6% ±1% AIR ENTRAINMENT. ALL CONCRETE WILL HAVE A MAXIMUM WATER/CEMENT (W/C) RATIO OF 0.45.

3. ALL CONCRETE FLATWORK SHALL HAVE A STIFF BROOM FINISH AND HAVE A SLOPE OF 1/8" PER FOOT UNLESS NOTED OTHERWISE.

4. REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO A.S.T.M. A615, GRADE 60, DEFORMED.

5. DETAIL, FABRICATE AND ERECT REINFORCEMENT BARS, INCLUDING BAR SUPPORTS, SPACERS, ETC. IN ACCORDANCE WITH "DETAILING OF CONC. REINFORCEMENT" (A.C.I. 315-80, REV. 1986).

6. UNLESS OTHERWISE NOTED, ALL LAP SPICES SHALL BE CLASS B CONFORMING TO A.C.I. 315-80.

7. A CHAMFER OF 1" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH A.C.I. 301 SECTION 4.2.4 UNLESS OTHERWISE NOTED.

8. CONCRETE WORK SHALL BE COORDINATED WITH THE MECHANICAL, EQUIPMENT, AND ELECTRICAL WORK TO ASSURE THAT ALL AFFECTED PIPES, CONDUITS INSERTS, ETC. ARE IN PLACE AND VERIFIED BEFORE PLACING CONCRETE.

9. CONCRETE COVER FOR REINFORCING BARS SHALL CONFORM TO THE FOLLOWING UNLESS INDICATED OTHERWISE ON THE DRAWINGS:
-CONCRETE EXPOSED TO WEATHER
OR IN CONTACT WITH GROUND: 2 INCHES
-CONCRETE CAST AGAINST EARTH: 3 INCHES

10. COORDINATE LOCATION OF STEEL ANCHOR BOLTS WITH STEEL FABRICATOR PRIOR TO INSTALLATION IN FIELD.

11. CONTRACTOR SHALL PROVIDE SLEEVES FOR ALL WALL/SLAB PENETRATIONS (PIPING, CONDUIT, ETC.) POWER, TELCO AND COAX TO ENTER SITE UNDER EQUIPMENT SLAB.

METAL NOTES:

PART 1 - GENERAL

1. SECTION INCLUDES:
STRUCTURAL STEEL FRAMING MEMBERS, BASE PLATES, PLATES, BARS AND GROUTING UNDER BASE PLATES.

2. SUBMITTALS:
SHOP DRAWINGS: INDICATE SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS, OPENINGS, CONNECTIONS, CAMBERS, LOADS, AND WELDED SECTIONS.

3. QUALITY ASSURANCE:
A. FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL, INCLUDING:
B. PERFORM DESIGN UNDER DIRECT SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE.

PART 2 - PRODUCTS

1. MATERIALS:

A. STRUCTURAL STEEL MEMBERS: ASTM A572, GRADE 50
B. STRUCTURAL TUBING: ASTM A500, GRADE B
C. PIPE: ASTM A53, TYPE E OR S, GRADE B
D. BOLTS, NUTS, AND WASHERS: ASTM A325
E. ANCHOR BOLTS: ASTM A307
F. WELDING MATERIALS: AWS D1.1, TYPE REQUIRED FOR MATERIALS BEING WELDED
G. GROUT: NON-SHRINK TYPE, PREMIUM COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 28 DAYS.

H. SHOP AND TOUCH-UP PRIMER: SSPC 115, TYPE 1, RED OXIDE
I. TOUCH-UP PRIMER FOR GALV. SURFACES: ZINC RICH TYPE

2. FABRICATION:
CONTINUOUSLY SEAL JOINTED MEMBERS BY CONTINUOUS WELDS. GRIND EXPOSED WELDS SMOOTH.

3. FINISH:
A. PREPARE STRUCTURAL COMPONENT SURFACES IN ACCORDANCE WITH SSPC SP-11 TO SP-10 PROCEDURES.

B. STRUCTURAL STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED.

PART 3 - EXECUTION

1. EXAMINATION AND PREPARATION:
VERIFY THAT THE FIELD CONDITIONS ARE ACCEPTABLE.

2. ERECTION:
A. ALLOW FOR ERECTION LOADS. PROVIDE TEMPORARY BRACING TO MAINTAIN FRAMING IN ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRIDING AND BRACING.

B. FIELD WELD COMPONENTS INDICATED ON SHOP DRAWINGS.

C. DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.

D. AFTER ERECTION, TOUCH-UP WELDS, ABRASIONS, AND SURFACES NOT SHOP PRIMED OR GALVANIZED WITH TOUCH-UP PRIMERS AS SPECIFIED UNDER SECTION 05000-METALS, PART 2 - PRODUCTS, H & I. SURFACES TO BE IN CONTACT WITH CONCRETE NOT INCLUDED.

3. FIELD QUALITY CONTROL:
FIELD INSPECTION OF MEMBERS, CONNECTIONS, WELDS AND TORQUING.

TELECOMMUNICATIONS WIRING COMPONENTS

(COAXIAL ANTENNA CABLE)

1. GENERAL

A. ALL MATERIALS, PRODUCTS OR PROCEDURES INCORPORATED INTO WORK SHALL BE NEW AND OF STANDARD COMMERCIAL QUALITY.

B. CERTAIN MATERIALS AND PRODUCTS WILL BE SUPPLIED BY THE OWNER (REFER TO GENERAL CONDITIONS FOR THE LIST OF OWNER FURNISHED EQUIPMENT, MATERIALS AND SUPPLIES FOR THESE ITEMS). THE CONTRACTOR IS RESPONSIBLE FOR PICKUP AND DELIVERY OF ALL SUCH MATERIALS.

C. ALL OTHER MATERIALS AND PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED BY THE CONTRACTOR.

2. MATERIALS:

A. COAXIAL CABLE:
1. INSTALL COAXIAL CABLE AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS WITH COAXIAL CABLES SUPPORTED AT NO MORE THAN 3'-0" O.C. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF EQUIPMENT LOCATION UNLESS OTHERWISE STATED.

2. ALL COAX RUN LENGTHS GREATER THAN 143 FEET SHALL BE 1-5/8" AND IN LENGTH LESS THAN OR EQUAL TO 143 FEET SHALL BE 7/8".

3. ANTENNA AND COAXIAL CABLE GROUNDING
A. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

4. COAXIAL CABLE IDENTIFICATION
A. TO PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLING, PLASTIC TAGS SHALL BE USED AT THE FOLLOWING LOCATIONS:
1. FIRST LOCATION IS AT THE END OF THE COAX NEAREST THE ANTENNA (WHERE THE COAXIAL CABLE AND JUMPER ARE CONNECTED).
2. SECOND LOCATION IS INSIDE THE EQUIPMENT SHELTER NEAR THE WAVEGUIDE ENTRY PORT.

B. USE ANDREW CABLE TIES (P/N 27290) TO SECURE IDENTIFICATION TAGS.

5. TESTING

OWNER SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM THE COAXIAL SWEEP TEST & REPORT. THE CONTRACTOR IS TO PROVIDE CLIMBER / QUALIFIED PERSONNEL TO ASSIST IN ANY REPAIRS AND WEATHERPROOFING ONCE THE TEST IS COMPLETE. THE CONTRACTOR IS TO PROVIDE OWNER A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME OF THE SWEEP TEST.

ELECTRICAL NOTES:

UNDERGROUND CONDUIT SHALL BE RIGID POLYVINYL CHLORIDE CONDUIT, SCHEDULE 40, TYPE 1, CONFORMING TO UL ARTICLE 651; WESTERN PLASTICS OR CARLON MANUFACTURER. COUPLINGS SHALL BE SLIP-ON, SOLVENT SEALED 1 PIPE SOLVENT, WESTERN TYPE COMPATIBLE WITH PVC DUCT. ALL BENDS SHALL BE "WIDE SWEEP" TYPE WITH A 24" MINIMUM RADIUS. ALL CONDUIT UNDER ROADS SHALL BE RGS, (OR PVC ENCASED IN 8"x18" RED CONCRETE DUCTBANK).

CONDUIT USED INDOORS SHALL BE EMT, AND RIGID GALVANIZED STEEL FOR OUTDOORS. COUPLINGS SHALL BE RIGID STEEL, AND COMPRESSION TYPE FOR E.M.T. SET SCREW FITTINGS ARE NOT PERMITTED. FOR ALL STUBS-UPS, USE RIGID GALVANIZED STEEL CONDUIT.

WIRE AND CABLE SHALL BE OF THE TYPE AND SIZE AS REQUIRED BY NEC. THERE WILL BE NO SPICES ALLOWED. PROVIDE HOPE PULLING HAND HOLES AS NEEDED.

CONTRACTOR SHALL PROVIDE TEST OF THE GROUNDING SYSTEM BY CERTIFIED TESTING AGENCY. PROVIDE INDEPENDENT TEST RESULTS TO THE PROJECT REPRESENTATIVE FOR REVIEW. GROUNDING SYSTEM RESISTANCE TO GROUND SHALL NOT EXCEED 5 OHMS. ALL ABOVE GRADE INTERIOR GROUNDING CONNECTORS SHALL BE DOUBLE-LUG COMPRESSION TYPE, ALL BELOW GRADE AND EXPOSED EXTERIOR GROUNDING CONNECTIONS TO PERMANENT EQUIPMENT AND FIXED BUILDING ELEMENTS SHALL BE GADWELD TYPE. CARE SHALL BE TAKEN TO REVIEW CONNECTION LOCATIONS AND MATERIAL TYPES TO AVOID POSSIBLE GALVANIC CORROSION. ALL EXPOSED GROUNDING CONNECTIONS TO BE COATED WITH ANTI-CORROSIVE AGENT SUCH AS "NO-OX", "NOALLOY" OR "PENETROX". VERIFY PRODUCT WITH PROJECT REPRESENTATIVE. ALL BOLTS, WASHERS AND NUTS USED ON GROUNDING CONNECTIONS SHALL BE STAINLESS STEEL.

ALL EXTERIOR GROUND BARS SHALL BE COATED WITH ANTI-CORROSIVE AGENT SUCH AS UPS-3 OR AS PER NOTE 6 ABOVE.

ALL JUNCTION AND OUTLET BOXES TO BE LABELED WITH KROY TAPE, OR EQUAL, DESIGNATING ALL CIRCUIT NUMBERS CONTAINED IN EACH BOX.

CONTRACTOR TO ENSURE ILC PROVIDED WITH (2) INTERNAL TVSS.

CONTRACTOR SHALL COORDINATE WITH SITE SURVEY TO LOCATE EXISTING UNDERGROUND UTILITIES. WHEREVER POTENTIAL CONFLICTS/ INTERFERENCES EXIST, HAND EXCAVATE TO AVOID DAMAGE. CONTACT ALL UTILITIES TO LOCATE UNDERGROUND PIPING IN PUBLIC ROW.

CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT (IF REQUIRED), TRENCHING, BACKFILL AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.

GROUNDING NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS AND ALL APPLICABLE LOCAL CODES.

2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.

4. ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC (CADWELD).

5. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING TWO (2) HIGH PRESS CRIMPS.

6. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

7. ALL EXTERIOR GROUND CONDUCTORS SHALL BE #2 AWG TIN PLATED COPPER UNLESS OTHERWISE INDICATED.

8. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.

9. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.

10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.

11. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 5 OHMS.

12. CONTRACTOR TO VERIFY CURRENT GROUNDING STANDARDS PRIOR TO CONSTRUCTION.

13. ALL GROUNDING SHALL CONFORM TO R56 STANDARDS.



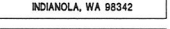
PUGET SOUND ENERGY RADIO NETWORK

Envisioning a Capable & Capable & Capable

SUQUAMISH

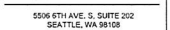
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PLAN REVIEWERS SIGNATURE

7721

REGISTERED ARCHITECT

PAUL NIXON

STATE OF WASHINGTON

08/23/2016

SHEET NAME

GENERAL NOTES

SHEET NUMBER

SP-1

GENERAL NOTES

1

STEEL SPECIAL INSPECTIONS		
AISC 360 - TABLE N5.6-1 INSPECTION TASKS PRIOR TO BOLTING		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	O
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE PAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O
AISC 360 - TABLE N5.6-2 INSPECTION TASKS DURING BOLTING		
INSPECTION TASKS DURING BOLTING	QC	QA
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O
AISC 360 - TABLE N5.6-3 INSPECTION TASKS AFTER BOLTING		
INSPECTION TASKS AFTER BOLTING	QC	QA
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P
<p>QC = QUALITY CONTROL TASKS TO BE PERFORMED BY STEEL FABRICATOR OR ERECTOR.</p> <p>QA = QUALITY ASSURANCE TASKS TO BE PERFORMED BY A SPECIAL INSPECTION AGENCY OR INDIVIDUALS DEFINED BY AWS D5.1 OR INDIVIDUALS QUALIFIED UNDER THE PROVISIONS OF AWS D1.1/D1.1M SUBCLAUSE 6.1.4.</p> <p>O = OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.</p> <p>P = PERFORM THESE TASKS FOR EACH BOLTED CONNECTION.</p>		
REQUIRED STRUCTURAL OBSERVATION:		
STRUCTURAL OBSERVATION FOR SEISMIC RESISTANCE STRUCTURE HEIGHT > 75' PER IBC 1704.5.1		

SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC 110 AND 1704 SHALL BE PERFORMED (AS REQUIRED) BY A QUALIFIED TESTING AGENCY APPROVED BY THE ARCHITECT/ENGINEER. INSPECTION AGENCY SHALL BE RETAINED BY THE PROJECT OWNER OR THEIR RESPONSIBLE CHARGE. THE ARCHITECT, ENGINEER OF RECORD, AND BUILDING DEPARTMENT SHALL RECEIVE COPIES OF ALL INSPECTION AND TEST RESULTS. REFER TO DOCUMENTS FOR SPECIFIC INFORMATION.

ITEMS TO BE INSPECTED:

- ANCHOR BOLTS (1/2" # ANCHOR BOLTS PROVIDED LOAD IS: 1,500 LBS. IN TENSION)
- HIGH STRENGTH BOLTS (A325 OR EQUIVALENT)

TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	AQ 318: 5.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B	-	-	AWS D1.4 AQ 318: 3.5.2	-
3. INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	-	X	AQ 318: 3.8.6, 6.1.1, 21.1.8	1905.5, 1909.1
4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	-	X	AQ 318: 3.8.6, 6.1.1, 21.2.8	1909.1
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	AQ 318: 6.1.1, 5.3-5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C 31 AQ 318: 5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PRIOR APPLICATION TECHNIQUES.	X	-	AQ 318: 5.5, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	AQ 318: 5.11, 5.13	1910.9
9. INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES. B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	-	AQ 318: 18.2.0 AQ 318: 18.12.4	-
10. ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	AQ 318: 18.16	-
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	AQ 318: 6.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	AQ 318: 6.2	-

TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS		
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

TABLE 1705.8 REQUIRED VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS		
VERIFICATION AND INSPECTION	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTH, EMBEDMENT INTO BEDROCK (IF APPLICABLE), AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	-
3. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.4.	-	-



SUQUAMISH

(NEW BUILD)

22063 DEWBERRY RD. NE
INDIANOLA, WA 98342



5506 6TH AVE. S. SUITE 202
SEATTLE, WA 98108
PHONE: (206) 490-3828
WWW.CODELA.COM



19401 40TH AVE. W. SUITE 304
LYNNWOOD, WA 98036
PHONE: (425) 740-8392
FAX: (425) 740-8961
WWW.CAMPASSOC.COM

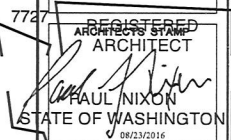
PROJECT MANAGER: EJC

PREPARED BY: LM

APPROVED BY: PH

08/23/16	ISSUED FOR PERMIT
08/23/16	ISSUED FOR REVIEW
08/17/16	ISSUED FOR REVIEW
05/26/16	ISSUED FOR REVIEW
05/24/16	ISSUED FOR REVIEW

PLAN REVIEWERS SIGNATURE

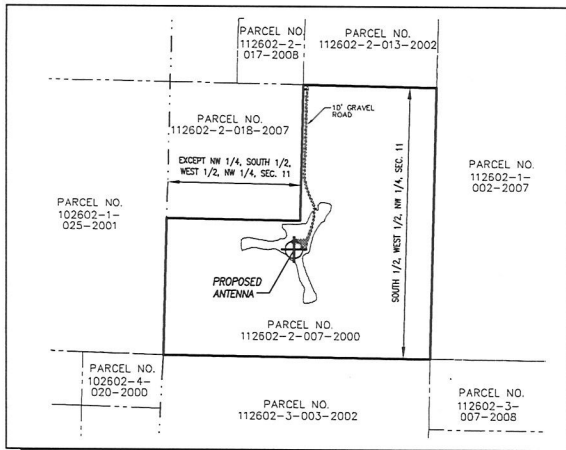


SHEET NAME

SPECIAL
INSPECTIONS

SHEET NUMBER

SP-2



BOUNDARY DETAIL
NOT TO SCALE

TITLE EXCEPTIONS

- FIDELITY NATIONAL TITLE OF WASHINGTON, INC.
ORDER NO.: 611113666
EFFECTIVE DATE: OCTOBER 7, 2015 AT 8:00 A.M.
- ROAD AND UTILITY EASEMENT AND THE TERMS AND CONDITIONS THEREIN:
RECORDING DATE: FEBRUARY 29, 1991
RECORDING NO.: 91 0325027
(SEE SURVEY SHEET C-1-1)
 - ROAD AND UTILITY EASEMENT AND THE TERMS AND CONDITIONS THEREIN:
RECORDING DATE: FEBRUARY 7, 1992
RECORDING NO.: 9202070041
(SEE SURVEY SHEET C-1-1)
 - EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS GRANTED IN A DOCUMENT:
GRANTED TO: PACIFIC SOUND ENERGY, INC. A WASHINGTON CORPORATION
PURPOSE: ONE OR MORE UTILITY SYSTEMS
RECORDING DATE: JULY 14, 2005
RECORDING NO.: 2005071 40223
AFFECTS: A PORTION OF PARCEL 8 HEREIN DESCRIBED
(CANNOT BE PLATED)
 - ANY CONVEYANCE OR ENCUMBRANCE OF SAID LAND MUST BE APPROVED BY THE BIA ON BEHALF OF THE SECRETARY OF THE INTERIOR PURSUANT TO 25 U.S.C. 481 AND/OR 25 U.S.C. 483A.
 - BIA APPROVAL OF A LIMITED WAIVER OF SOVEREIGN IMMUNITY FROM THE THREE MUST BE SUBMITTED. COPIES OF THE TRIBAL CONSTITUTION AND BYLAWS MUST ALSO BE SUBMITTED.
 - DIVIDENCE OF THE AUTHORITY OF THE BIA REPRESENTATIVE TO EXECUTE ANY APPROVALS OR CONSENTS MUST BE SUBMITTED.
 - A CURRENT TITLE STATUS REPORT FROM THE BUREAU OF INDIAN AFFAIRS, CERTIFIED AND VERIFIED AS OF THE DATE OF THE TRANSACTION, TO BE INSURED, TOGETHER WITH COPIES OF ALL ENCUMBRANCES LISTED THEREON, MUST BE SUBMITTED.
 - THE AMOUNT OF COVERAGE WAS NOT FURNISHED IN THE APPLICATION FOR TITLE INSURANCE. WHEN DISCLOSED, THE PREMIUM WILL BE ADJUSTED ACCORDINGLY.
 - PAYMENT OF THE REAL ESTATE EXCISE TAX, IF REQUIRED.
- THE LAND IS SITUATED WITHIN THE BOUNDARIES OF LOCAL TAXING AUTHORITY OF KITSAP COUNTY.
- PRECEDING RATE OF REAL ESTATE EXCISE TAX AS OF THE DATE HEREIN IS 1.78 PERCENT.
- ANY CONVEYANCE DOCUMENT MUST BE ACCOMPANIED BY THE OFFICIAL WASHINGTON STATE EXCISE TAX AFFIDAVIT. THE APPLICABLE EXCISE TAX MUST BE PAID AND THE AFFIDAVIT APPROVED AT THE TIME OF THE RECORDING OF THE CONVEYANCE DOCUMENTS. (NOTE: REAL ESTATE EXCISE TAX AFFIDAVITS MUST BE PRINTED AS LOCAL SIZE FORMS.)
- AN ADDITIONAL \$5.00 ELECTRONIC TECHNOLOGY FEE MUST BE INCLUDED IN ALL EXCISE TAX PAYMENTS.
- IF THE TRANSACTION IS DEWET, AN ADDITIONAL \$5.00 AFFIDAVIT PROCESSING FEE IS REQUIRED.
- THE LAND IS PRESENTLY CLASSIFIED AS EXEMPT AND MAY BE SUBJECT TO THE COLLECTION OF BACK TAXES FOR A POSSIBLE THREE TO TEN YEAR PERIOD, DEPENDING UPON THE ACTUAL USE CLASSIFICATION OF THE PROPERTY DURING ITS EXEMPT STATUS. IT SHOULD BE MADE TO THE WISAP COUNTY ASSESSOR'S OFFICE OR THE COMPANY FOR ADDITIONAL INFORMATION.
- TAX ACCOUNT NO.: 112602-2-007-2000
LEVY CODE: 4240

SERVIENT PARCEL DESCRIPTION

FIDELITY NATIONAL TITLE OF WASHINGTON, INC.
ORDER NO.: 611113666
EFFECTIVE DATE: OCTOBER 7, 2015 AT 8:00 A.M.

PARCEL 1:
THE WEST HALF OF THE NORTHWEST QUARTER OF SECTION 11, TOWNSHIP 26 NORTH, RANGE 2 EAST, N.M. IN KITSAP COUNTY, WASHINGTON.

EXCEPT THE NORTH HALF THEREOF;
AND EXCEPT THE NORTHWEST QUARTER OF THE SOUTH HALF THEREOF;

PARCEL 2:
EASEMENTS FOR INGRESS, EGRESS AND UTILITIES OVER, UNDER AND ACROSS THAT CERTAIN LAND DESCRIBED IN DOCUMENTS RECORDED UNDER RECORDING NOS. 910225027 AND 9202070041, RECORDS OF KITSAP COUNTY, WASHINGTON.

SURVEYOR'S NOTES

- TITLE REPORT FROM FIDELITY NATIONAL TITLE OF WASHINGTON, INC. (ORDER NO.: 611113666 / EFFECTIVE DATE: OCTOBER 7, 2015 AT 8:00 A.M.)
- LATITUDE AND LONGITUDE TAKEN AT EXISTING TOWER.
- MAGNETIC NORTH DECLINATION OF APPROXIMATELY 15.10° E FOR THE DATE OF 11-12-15, COMPUTED BY USING THE MAGNETIC FIELD CALCULATOR ON THE NOAA NATIONAL GEOPHYSICAL DATA CENTER WEBSITE AND DOES NOT ACCOUNT FOR ANY LOCAL VARIATION OR ANOMALY.

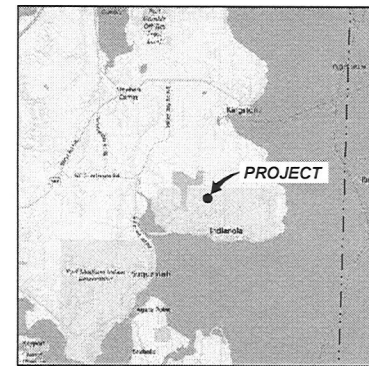
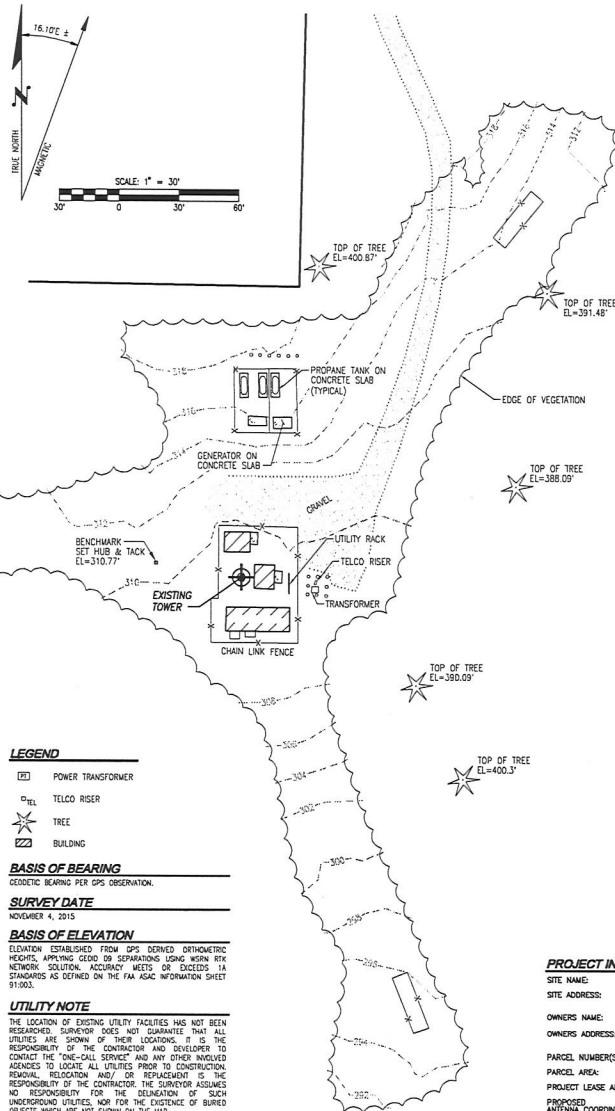
BOUNDARY DISCLAIMER

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF PARTIES WHOMSE NAMES APPEAR HEREON ONLY, AND DOES NOT EXTEND TO ANY UNKOWNED THIRD PARTIES WITHOUT EXPRESS REIFICATION BY THE LAND SURVEYOR.

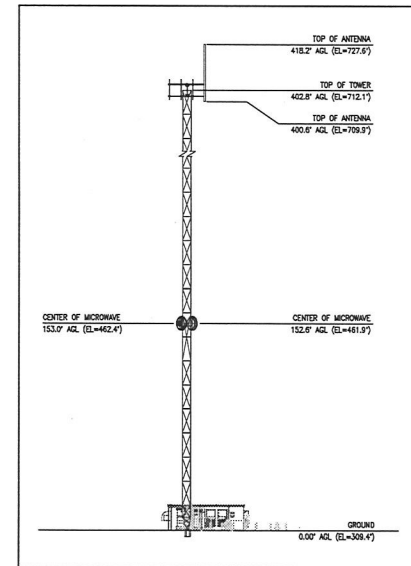
BOUNDARY LINES SHOWN REPRESENT APPROXIMATE LOCATION BASED ON DEED PROVIDED; OWNERSHIP LINES MAY VARY. NO GUARANTEE OF OWNERSHIP IS EXPRESSED OR IMPLIED.

PSERN - SUQUAMISH

W 1/2, NW 1/4, SEC. 11, T 26 N, R 2 E, W.M.
KITSAP COUNTY, WASHINGTON



VICINITY MAP
NOT TO SCALE

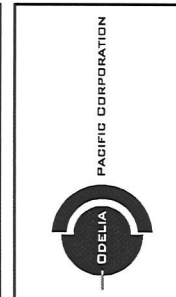


EXISTING TOWER ELEVATION
NOT TO SCALE

PROJECT INFORMATION

SITE NAME: PSERN - SUQUAMISH
SITE ADDRESS: 22063 DEWBERRY ROAD NE INDIANOLA, WA 98342
OWNERS NAME: UNITED STATES IN TRUST FOR THE SUQUAMISH TRIBE OF INDIANS
OWNERS ADDRESS: PO BOX 498 SUQUAMISH WA 98392
PARCEL NUMBER(S): 2097160
PARCEL AREA: 8.3123 ACRES
PROJECT LEASE AREA: N/A
PROPOSED ANTENNA COORDINATES: 47°45'35.17" N (47.759770° N) 122°31'03.145" W (122.517508° W)

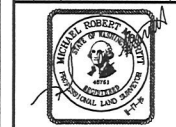
GROUND ELEVATION: 309.38' (GROUND ELEVATION AT TOWER)
SITE BENCHMARK: SITE BENCHMARK SET HUB AND TACK (SEE PLANS) EL=310.77'
VERTICAL DATUM: NAVD 88 BASED ON GPS OBSERVATION
BASIS OF BEARING: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83



LDC Architectural Engineering Structural Survey
14201 NE 200TH ST, #100 Woodinville, WA 98072
PH 425.856.1886 FX 425.482.2863
www.LDCcorp.com

DATE: 11-12-15
DRAWN BY: VJT
CHECKED BY: MRM

REVISIONS		
REV	DATE	DESCRIPTION



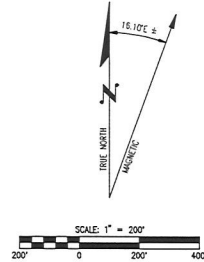
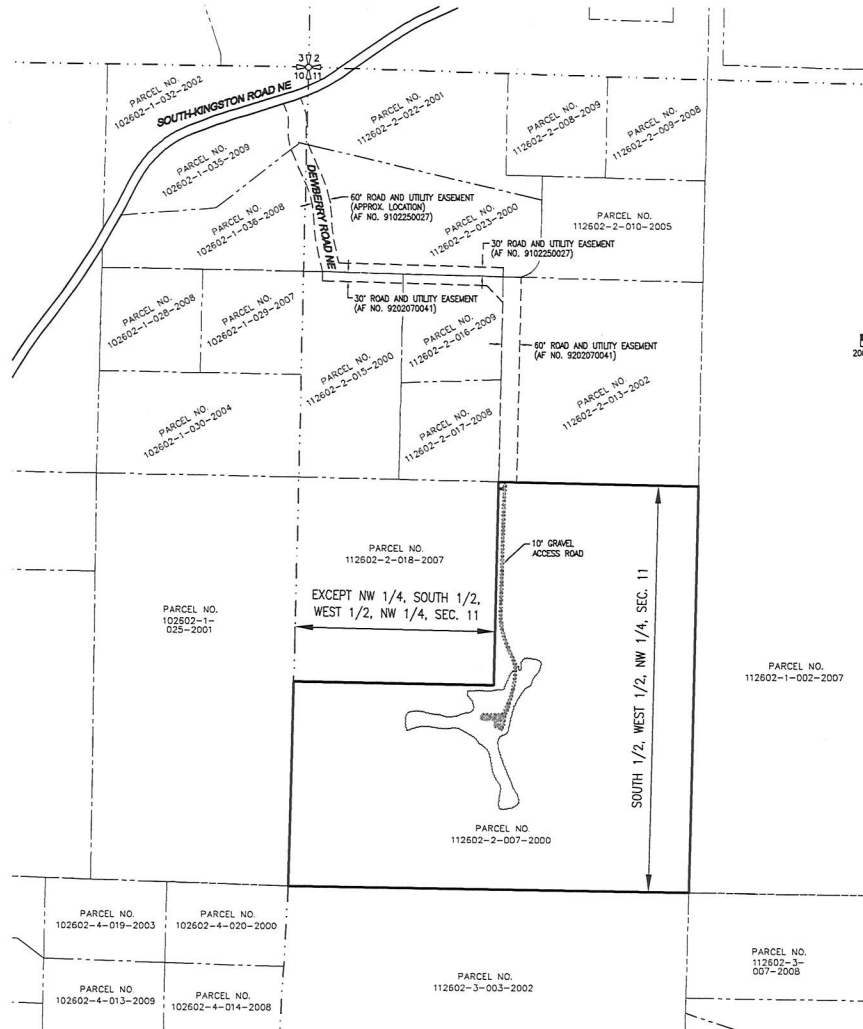
SITE
PSERN
SUQUAMISH
22063 DEWBERRY ROAD NE
INDIANOLA, WA 98342

SHEET TITLE
CIVIL SURVEY

SHEET NUMBER
C-1.0

PSEARN - SUQUAMISH

W 1/2, NW 1/4, SEC. 11, T 26 N, R 2 E, W.M.
KITSAP COUNTY, WASHINGTON



LDC Architectural
Engineering
Structural
Survey
THE CIVIL ENGINEERING GROUP
14201 NE 200th St. #102
Woodinville, WA 98072
www.LDCorp.com
PH 425.855.1888
FX 425.482.2881

DATE: 11-12-15
DRAWN BY: VJT
CHECKED BY: MRM

REVISIONS			
REV	DATE	DESCRIPTION	BY



SITE
PSEARN
SUQUAMISH
22063 DEWBERRY ROAD NE
INDIANOLA, WA 98342

SHEET TITLE
CIVIL SURVEY

SHEET NUMBER
C-1.1

SUQUAMISH

22063 DEWBERRY RD NE
INDIANOLA, WA 98342

APPLICANT

ODELIA PACIFIC CORP
5506 8TH AVE S, SUITE 202
SEATTLE, WA 98108
425.443.2128
CONTACT: MARK RILEY

CONSULTANTS

ARCHITECT
CAMP & ASSOCIATES
79401 40TH AVE W, SUITE 104
LYNNWOOD, WA 98036
425.740.6390
CONTACT: ERIC CAMP

SURVEYOR

LSC
34201 NE 200TH ST, SUITE 100
WOODINVILLE 98072
425.806.1869
CONTACT: MICHAEL MCKRITT

LEGAL DESCRIPTION

SOUTHWEST QUARTER OF THE NORTHWEST QUARTER
EXCEPT THE FOLLOWING: THE NORTHWEST QUARTER OF
THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER
OF SECTION 31, TOWNSHIP 36 NORTH, RANGE 2 EAST,
W.M., IN KITSAP COUNTY, WASHINGTON.

BENCHMARK

SITE BENCHMARK
SET HUB AND TACK
[SEE PLAN]
ELEV: 11.77

DATUM

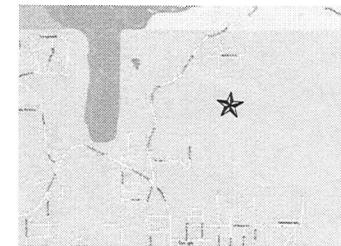
NAVD 83 BASED ON GPS OBSERVATION



CAUTION!
CALL BEFORE YOU DIG!
BURIED UTILITIES EXIST IN THE AREA AND UTILITY
INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT
THE ONE-CALL UTILITY LOCATE SERVICE A MINIMUM OF 48
HOURS PRIOR TO CONSTRUCTION.
1-800-424-5555

IMPERVIOUS SURFACES
NEW - 1.000 SQ.FT
REPLACED - 0 SQ.FT
TOTAL 1.000 SQ.FT

SHEET INDEX
C1.1 COVER SHEET & GENERAL NOTES
C2.1 TEMPORARY EROSION CONTROL PLAN
C2.2 TEMPORARY EROSION CONTROL DETAILS
C3.1 GRADING & DRAINAGE PLAN



VICINITY MAP

NTS ★ = PROJECT SITE



SUQUAMISH

(NEW BUILD)

22063 DEWBERRY RD NE
INDIANOLA WA 98342



5506 8TH AVE. S, SUITE 202
SEATTLE, WA 98108
PHONE: (206) 490-3020
WWW.ODELIA.COM



250 4TH AVE. S, SUITE 200
EDMONDS, WASHINGTON 98020
PHONE (425) 778-5500
FAX (425) 778-5536

CG PROJECT#16015.914

PROJECT MANAGER VO

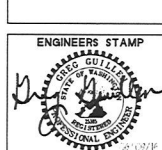
PREPARED BY ZOS

APPROVED BY GAG

REV	DATE	DESCRIPTION
1	06/06/20	PERMIT SUBMITTAL

PLAN REVIEWERS SIGNATURE

ENGINEERS STAMP
Professional Engineer
Mark R. Riley
No. 16015.914
CG PROJECT#16015.914



SHEET NAME
COVER SHEET
AND GENERAL
NOTES

SHEET NUMBER

C1.1

GENERAL NOTES

GENERAL NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE MOST CURRENT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION PREPARED BY WSDOT AND APWA AS ADOPTED BY THE KITSAP COUNTY DEPARTMENT OF PUBLIC WORKS (ICPM).
- ANY REVISIONS TO THE ACCEPTED CONSTRUCTION PLANS SHALL BE REVIEWED AND APPROVED BY THE COUNTY PRIOR TO IMPLEMENTATION IN THE FIELD.
- THE CONTRACTOR SHALL MAINTAIN A SET OF THE ACCEPTED CONSTRUCTION DRAWINGS ON-SITE AT ALL TIMES WHILE CONSTRUCTION IS IN PROGRESS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS FROM THE KCPW PRIOR TO COMMENCING ANY WORK WITHIN COUNTY RIGHT-OF-WAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE TRAFFIC CONTROL AT ALL TIMES DURING CONSTRUCTION ALONGSIDE OR WITHIN ALL PUBLIC ROADWAYS. TRAFFIC FLOW ON EXISTING PUBLIC ROADWAYS SHALL BE MAINTAINED AT ALL TIMES, UNLESS PERMISSION IS OBTAINED FROM THE KCPW FOR ROAD CLOSURE AND/OR DETOURS.
- THE LOCATION OF EXISTING UTILITIES ON THIS PLAN IS APPROXIMATE ONLY. THE CONTRACTOR SHALL CONTRACT THE "UNDERGROUND LOCATE" CENTER AT 811, AND NON-SUBSCRIBING INDIVIDUAL UTILITY COMPANIES 48 HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL PROVIDE FOR PROTECTION OF EXISTING UTILITIES FROM DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS.
- ROCKEELS OR OTHER RETAINING FACILITIES EXCEEDING 4 FT. IN HEIGHT REQUIRE A SEPARATE PERMIT.
- A "FORESTRY PRACTICES" PERMIT MAY BE REQUIRED PRIOR TO CLEARING OF THE SITE.

EROSION CONTROL NOTES

- THE FOLLOWING EROSION AND SEDIMENTATION CONTROL NOTES APPLY TO ALL CONSTRUCTION SITE ACTIVITIES AT ALL TIMES, UNLESS OTHERWISE SPECIFIED ON THESE PLANS.
- APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL PLAN DOES NOT CONSTITUTE AN ACCEPTANCE OF THE PERMANENT ROAD OR DRAINAGE DESIGN. THE OWNER AND HIS/HER CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR PREVENTING SILT/LADEN RUNOFF FROM DISCHARGING FROM THE PROJECT SITE. FAILURE BY THE OWNER AND/OR CONTRACTOR CAN RESULT IN A FINE. THE DESIGNATED TEMPORARY CONTACT PERSON NOTED ON THIS PLAN MUST BE AVAILABLE FOR CONTACT BY TELEPHONE ON A 24 HOUR BASIS THROUGHOUT CONSTRUCTION AND UNTIL THE PROJECT HAS BEEN COMPLETED AND ACCEPTED BY THE COUNTY.
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR FROM THE BEGINNING OF CONSTRUCTION UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY THE COUNTY AND THE SITE IS STABILIZED.
- PRIOR TO BEGINNING ANY WORK ON THE PROJECT SITE, A PRECONSTRUCTION CONFERENCE MUST BE HELD, AND SHALL BE ATTENDED BY THE GENERAL CONTRACTOR, THE PROJECT ENGINEER, REPRESENTATIVES FROM AFFECTED UTILITIES, AND A REPRESENTATIVE OF KITSAP COUNTY.
- THE EROSION AND SEDIMENTATION CONTROL FACILITIES SHOWN ON THIS PLAN ARE TO BE CONSIDERED ADEQUATE BASIC REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION, DEVIATIONS FROM THIS PLAN MAY BE NECESSARY IN ORDER TO MAINTAIN WATER QUALITY. MINOR DEPARTURES FROM THIS PLAN ARE PERMITTED SUBJECT TO THE APPROVAL OF THE COUNTY INSPECTOR. HOWEVER, EXCEPT FOR EMERGENCY SITUATIONS, ALL OTHER DEVIATIONS FROM THIS PLAN MUST BE DESIGNED BY THE PROJECT ENGINEER AND APPROVED BY KITSAP COUNTY PRIOR TO INSTALLATION.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER AND/OR CONTRACTOR ON A FREQUENT BASIS AND IMMEDIATELY AFTER EACH RAINFALL AND MAINTAINED AS NECESSARY TO INSURE THEIR CONTINUED FUNCTIONING. ALL SEDIMENT MUST BE REMOVED FROM SILT FENCIS, STRAW BALES, SEDIMENT PONDS, ETC. PRIOR TO THE SEDIMENT REACHING 1/2 ITS MAXIMUM POTENTIAL DEPTH.
- AT NO TIME SHALL CONCRETE, CONCRETE BY-PRODUCTS, VEHICLE FLUIDS, PAINT, CHEMICALS, OR OTHER POLLUTING MATTER BE PERMITTED TO DISCHARGE TO THE TEMPORARY OR PERMANENT DRAINAGE SYSTEM, OR TO DISCHARGE FROM THE PROJECT SITE.
- PERMANENT RETENTION/RETENTION PONDS, PIPES, TANKS OR VAULTS MAY ONLY BE USED FOR SEDIMENT CONTAINMENT WHEN SPECIFICALLY INDICATED ON THESE PLANS.

GRADING NOTES

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF DISCOVERY OF POOR SOILS, GROUNDWATER OR DISCREPANCIES IN THE EXISTING CONDITIONS AS NOTED ON THE PLANS.

- MAXIMUM SLOPE STEEPNESS SHALL BE 2:1 (HORIZONTAL TO VERTICAL) FOR CUT AND FILL SLOPES.
- UNLESS OTHERWISE SPECIFIED, ALL EMBANKMENTS IN THE PLAN SET SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 2-03.314(B) OF THE WSDOT STANDARD SPECIFICATIONS. EMBANKMENT COMPACTATIONS SHALL CONFORM TO SECTION 2-03.314(C), METHOD B OF SAID STANDARD SPECIFICATIONS.
- EMBANKMENTS DESIGNED TO IMPOUND WATER SHALL BE COMPACTED TO 95% MAXIMUM DENSITY PER SECTION 2-03.314(C), METHOD C OF WSDOT STANDARD SPECIFICATIONS.
- ALL AREAS RECEIVING FILL MATERIAL SHALL BE PREPARED BY REMOVING VEGETATION, NON-COMPLYING FILL, TOPSOIL AND OTHER UNSUITABLE MATERIAL BY SCARPING THE SURFACE TO PROVIDE A BOND WITH THE NEW FILL, AND WHERE SLOPES ARE STEEPER THAN 3:1 HORIZONTAL TO 1 VERTICAL AND THE HEIGHT IS GREATER THAN 5 FT., BY BENCHING INTO SOUND COMPETENT MATERIAL AS DETERMINED BY A SOILS ENGINEER.

CONSTRUCTION SEQUENCE:

- APPLY FOR AND PICK UP ANY RIGHT OF WAY PERMITS FROM KITSAP COUNTY DEPARTMENT OF PUBLIC WORKS.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES(S).
- CONSTRUCT FILTER FENCE BARRIERS.
- CONSTRUCT SEDIMENTATION BASINS.
- CONSTRUCT RUNOFF INTERCEPTION AND DIVERSION DITCHES.
- CLEAR AND GRADE THE MINIMUM SITE AREA REQUIRED FOR CONSTRUCTION OF THE VARIOUS PHASES OF WORK.
- PROVIDE TEMPORARY HYDROSEEDING OR OTHER SOURCE CONTROL STABILIZATION MEASURES ON ALL DISTURBED SOILS. 8. MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL FACILITIES TO PROVIDE THE REQUIRED PROTECTION OF DOWNSTREAM WATER QUALITY.
- ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAYING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- PROVIDE PERMANENT SITE STABILIZATION.
- EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL NOT BE REMOVED UNTIL CONSTRUCTION IS COMPLETE AND ACCEPTED BY KITSAP COUNTY.

LEGEND			
DESCRIPTION	EXISTING	PROPOSED	ABBREVIATIONS
PROPERTY LINE	---	---	ABN ABANDONED
ADJACENT PROPERTY LINE	---	---	BLDG BUILDING
CENTERLINE	---	---	BOW BOTTOM OF WALL
CLEARING LIMITS	---	---	CB CATCH BASIN
SILT FENCE	---	---	CMP CORRUGATED METAL PIPE
CONTOUR LINE	---	---	CO CLEANOUT
FENCE	---	---	CONC CONCRETE
SANITARY SEWER LINE	---	---	CONST CONSTRUCTION
MANHOLE	---	---	CP CONCRETE PIPE
STORM DRAIN MAIN	---	---	CU YD CUBIC YARD
STORM DRAIN PIPE	---	---	DDCA DOUBLE DETECTOR CHECK VALVE ASSEMBLY
ROOF DRAIN	---	---	DI DUCTILE IRON PIPE
FOOTING DRAIN	---	---	DIA DIAMETER
PRESSURE LINE	---	---	DIP DUCTILE IRON PIPE
CATCH BASIN (TYPE 1)	---	---	EA EACH
CATCH BASIN (TYPE 2)	---	---	EJ EXPANSION JOINT
CLEANOUT	---	---	ELEV ELEVATION
CLEANOUT AND WYE	---	---	EOP EDGE OF PAVEMENT
GRADE BREAK	---	---	EX EXISTING
SURFACE SWALE	---	---	FDC FIRE DEPT. CONNECTION
DRAINAGE ARROW	---	---	FFE FINISHED FLOOR ELEVATION
WATER LINE	---	---	FL FIRE HYDRANT
WATER METER	---	---	FL FLANGE
FIRE HYDRANT	---	---	FT FEET/FOOT
FDC	---	---	GV GATE VALVE
PV	---	---	HP HIGH POINT
GATE VALVE	---	---	HT HEIGHT
TEE	---	---	ID INSIDE DIAMETER
90° BEND	---	---	IE INVERT ELEVATION
THRUST BLOCKING	---	---	L LENGTH/LINE
CAP	---	---	LCPE LINED CORRUGATED POLYETHYLENE PIPE
CONCRETE PAVEMENT	---	---	LF LINEAL FOOT
ASPHALT PAVEMENT	---	---	LP LOW POINT
CRUSHED SURFACING	---	---	LT LEFT
ROCKERY	---	---	MAX MAXIMUM
SPOT ELEVATION	---	---	MECH MECHANICAL
TELEPHONE LINE	---	---	MH MANHOLE
POWER LINE	---	---	
GAS LINE	---	---	
SIGN	---	---	



SUQUAMISH

(NEW BUILD)

22063 DEWBERRY RD NE
INDIANOLA WA 98342



CG PROJECT# 16015.914

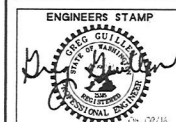
PROJECT MANAGER VO

PREPARED BY ZOS

APPROVED BY GAG

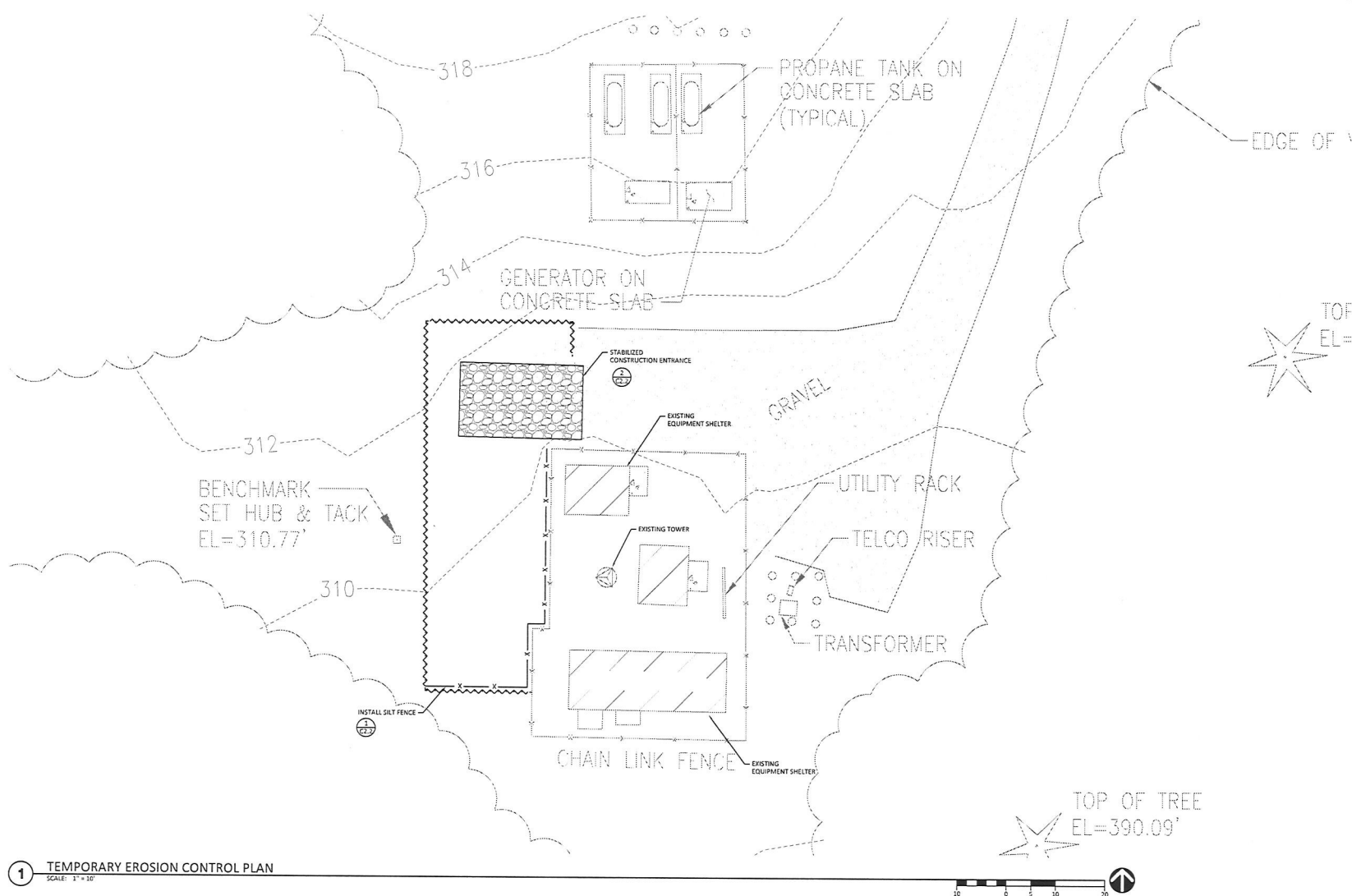
REV	DATE	DESCRIPTION

PLAN REVIEWERS SIGNATURE

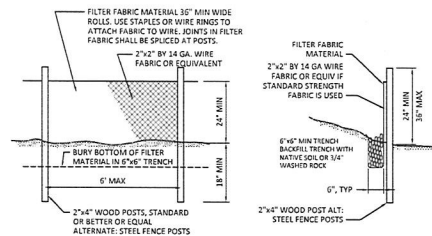


SHEET NAME
TEMPORARY
EROSION
CONTROL PLAN

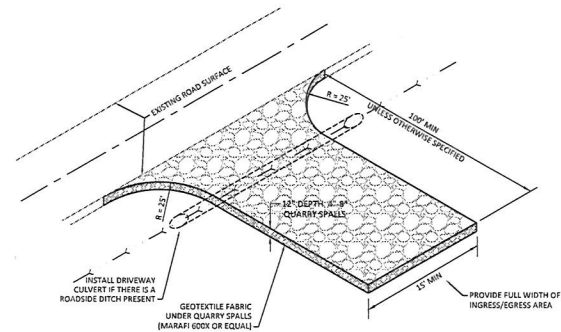
SHEET NUMBER
C2.1



1 TEMPORARY EROSION CONTROL PLAN
SCALE: 1" = 10'



①

[illegible]

②

REV	DATE	DESCRIPTION
A	06/05/16	PERMIT SUBMITTAL

PLAN REVIEWERS SIGNATURE _____



SHEET NAME
TEMPORARY
EROSION
CONTROL DETAILS

SHEET NUMBER
C2.2



SUQUAMISH
(NEW BUILD)
22063 DEWBERRY RD NE
INDIANOLA WA 98342

ODELLA PACIFIC CORPORATION
5506 6TH AVE. S. SUITE 202
SEATTLE, WA 98108
PHONE: (206) 490-3826
WWW.ODELLA.COM

C.E. ENGINEERING
250 4TH AVE. S., SUITE 200
EDMONDS, WASHINGTON 98020
PHONE (425) 778-8500
FAX (425) 778-5536
CG PROJECT# 16015.914

PROJECT MANAGER VO
PREPARED BY ZOS
APPROVED BY GAG

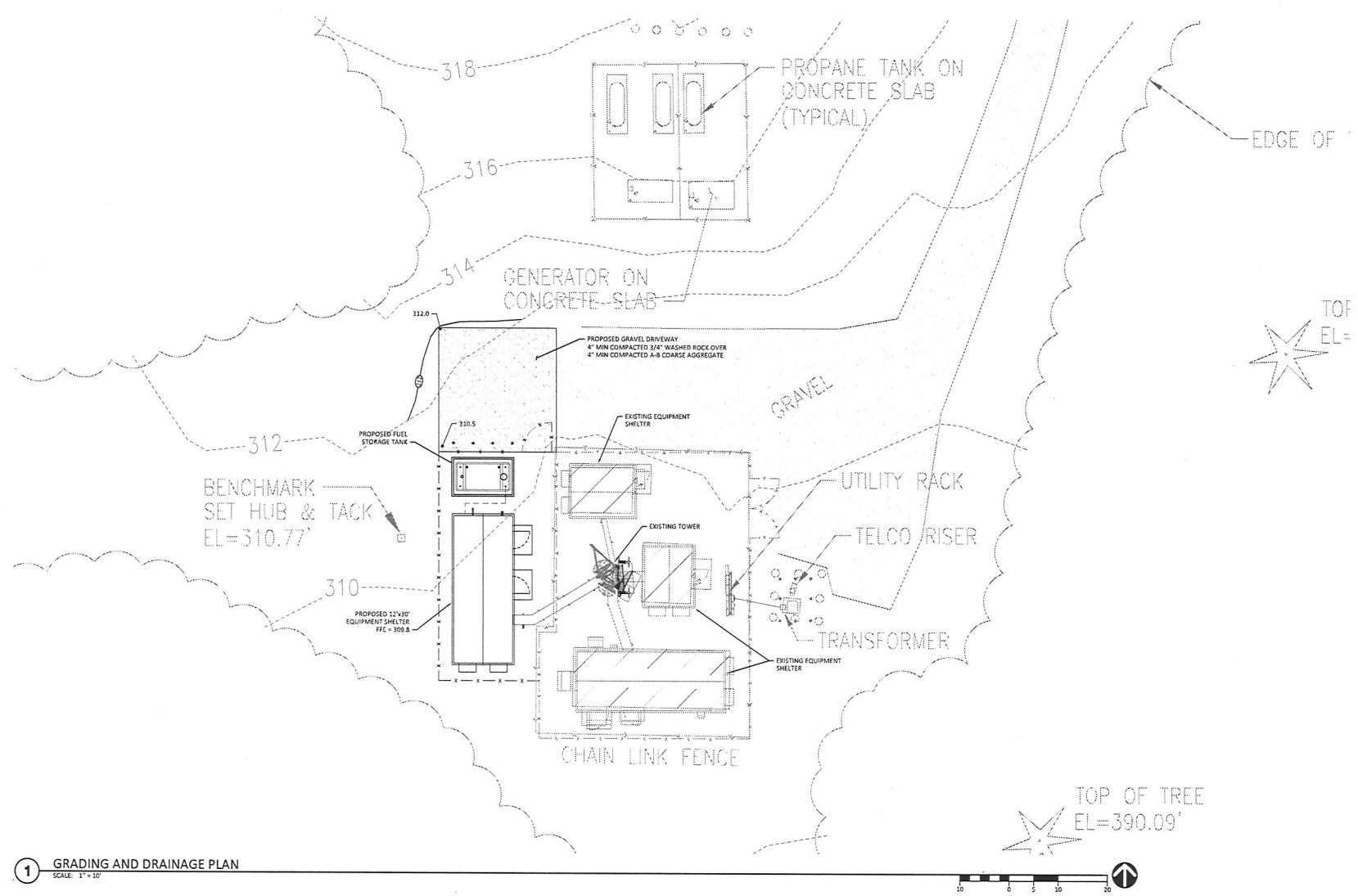
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PLAN REVIEWER SIGNATURE

ENGINEERS STAMP
[Signature]
Professional Engineer
No. 09718

SHEET NAME
GRADING AND DRAINAGE PLAN

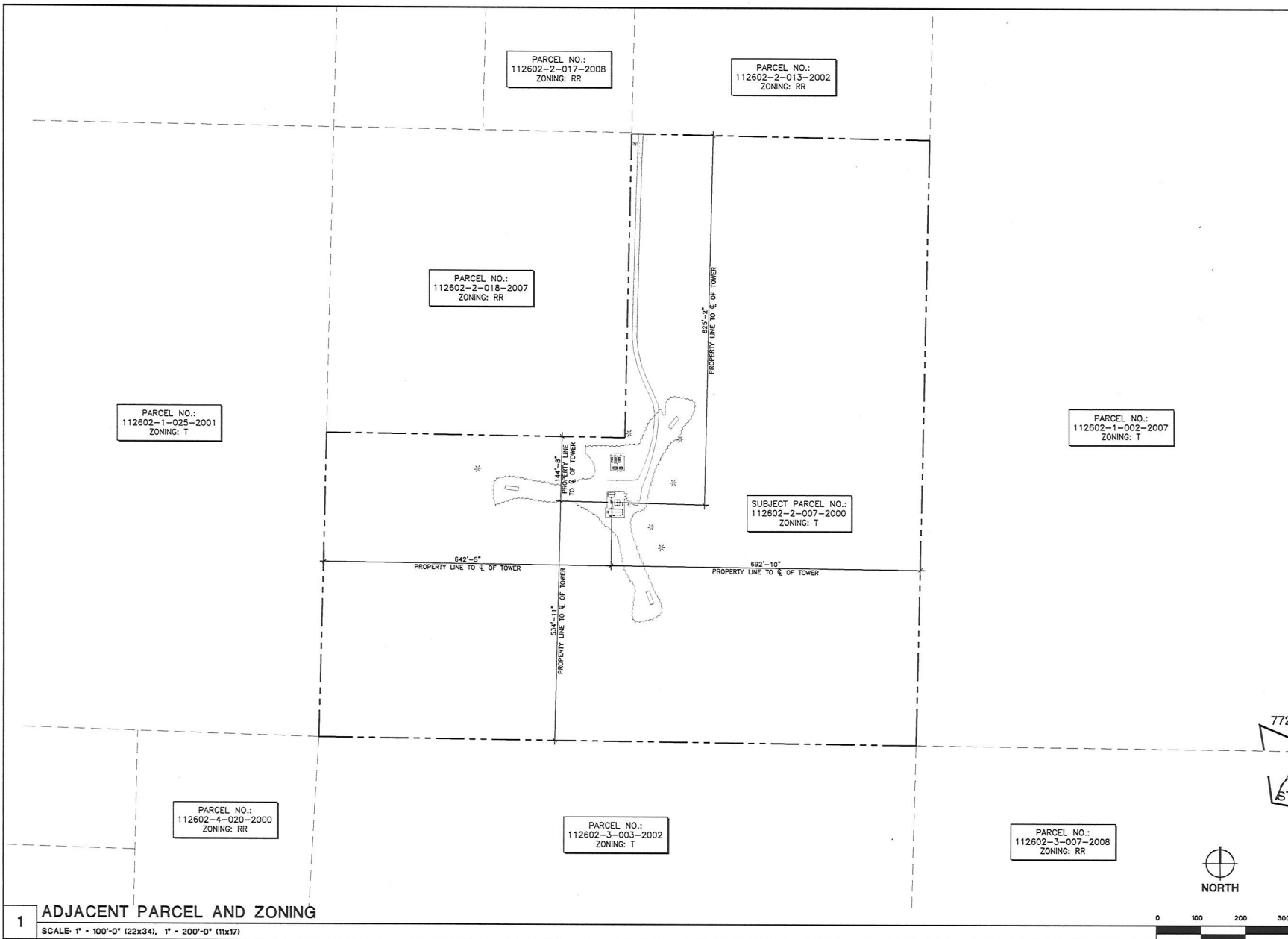
SHEET NUMBER
C3.1



1 GRADING AND DRAINAGE PLAN
SCALE: 1" = 10'

GRADING QUANTITIES	
TOTAL EXCAVATION (CUYD) -	5 CU YDS TOTAL
EMBANKMENT (FILL) -	5 CU YDS
TOTAL	10 CU YDS

THE QUANTITIES SHOWN ABOVE ARE FOR THE PERMIT PROCESS ONLY. THESE VALUES ARE APPROXIMATE. DO NOT USE FOR BIDDING, PAYMENT, OR ESTIMATING PURPOSES.



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PHONE: (425) 740-6392
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PROJECT MANAGER: EJC

PREPARED BY: LM

APPROVED BY: PH

08/23/16	ISSUED FOR PERMIT
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06/17/16	ISSUED FOR REVIEW
05/26/16	ISSUED FOR REVIEW
05/24/16	ISSUED FOR REVIEW

PLAN REVIEWERS SIGNATURE

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REGISTERED ARCHITECT

Paul Nixon

PAUL NIXON

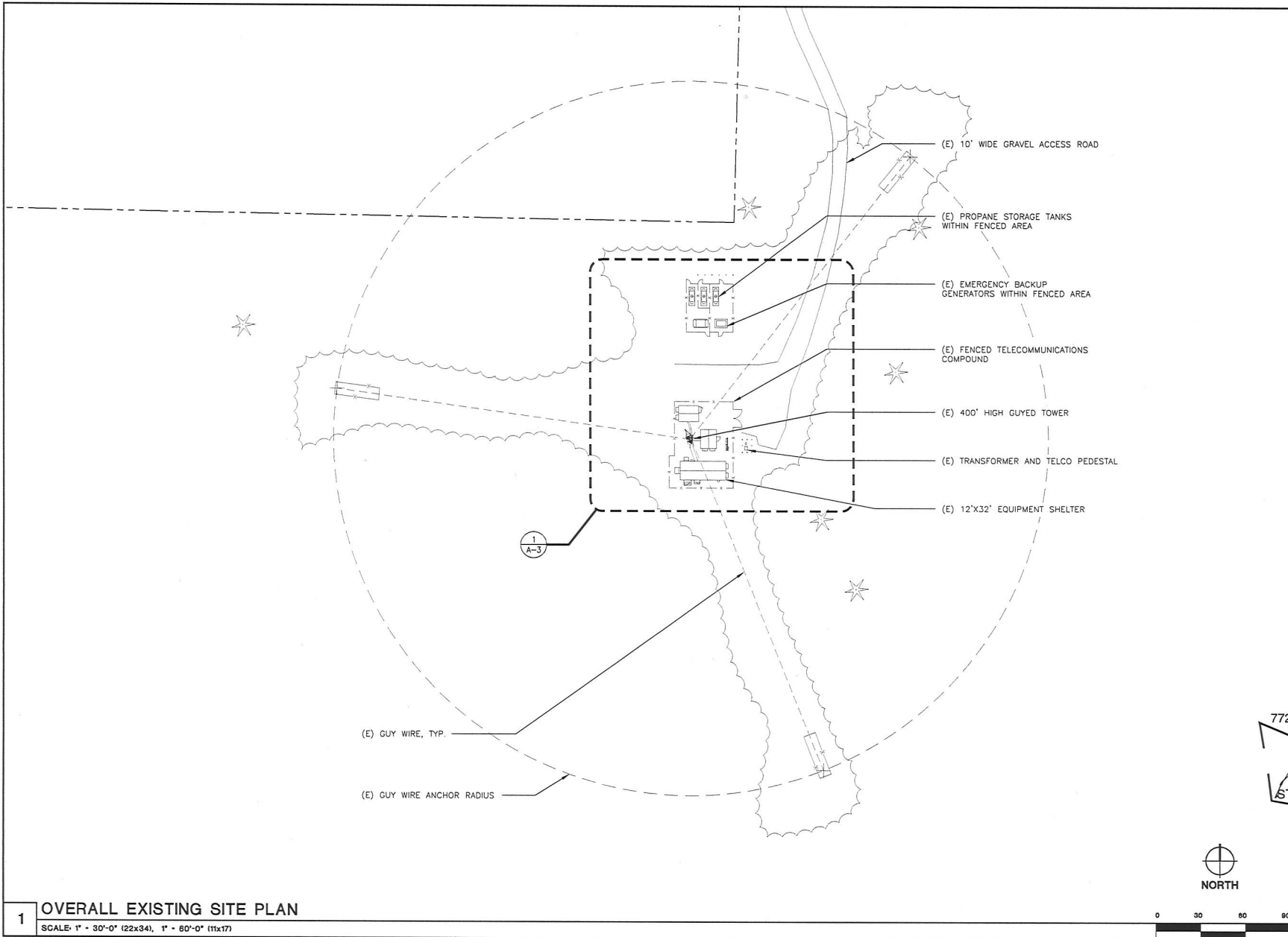
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08/23/2016

SHEET NAME
ADJACENT
PARCEL &
ZONING

SHEET NUMBER
A-1

18/174





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PREPARED BY: LM

APPROVED BY: PN

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PLAN REVIEWERS SIGNATURE

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REGISTERED ARCHITECT

Paul Nixon

PAUL NIXON

STATE OF WASHINGTON

08/23/2016

SHEET NAME

OVERALL
EXISTING
SITE PLAN

SHEET NUMBER

A-2

1 OVERALL EXISTING SITE PLAN

SCALE: 1" = 30'-0" (22x34), 1" = 60'-0" (11x17)



INGRESS
EGRESS

SHEET NUMBER
A-3

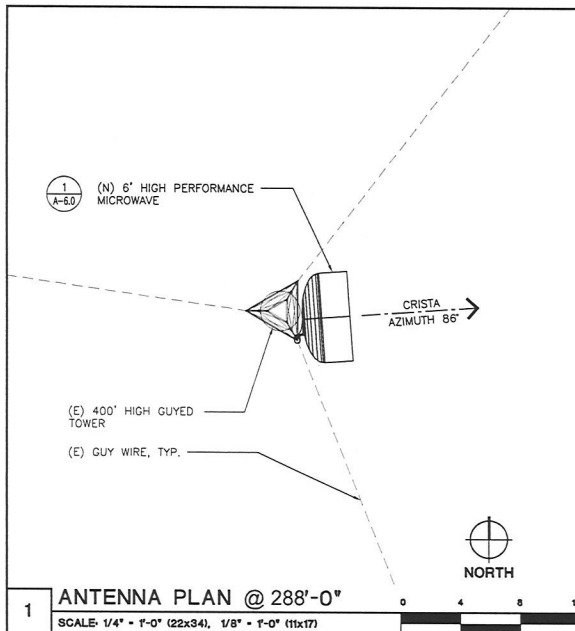
104 / 401

772

08/23/2016

ENLARGED PROPOSED SITE PLAN

SCALE: 1/8" = 1'-0" (22x34), 1/16" = 1'-0" (11x17)

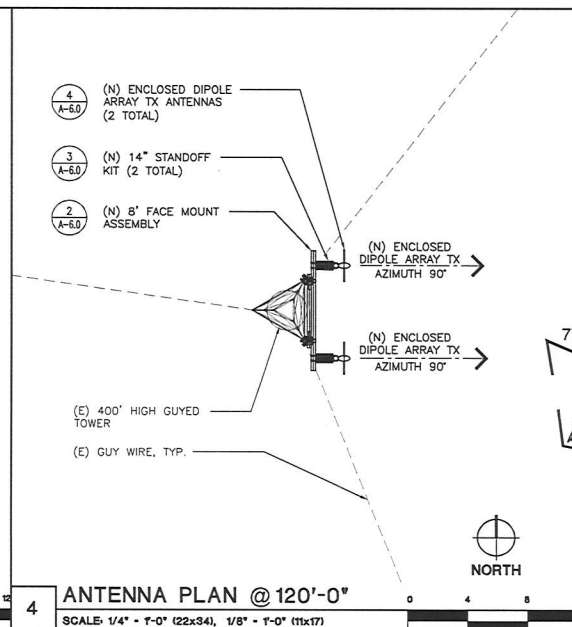
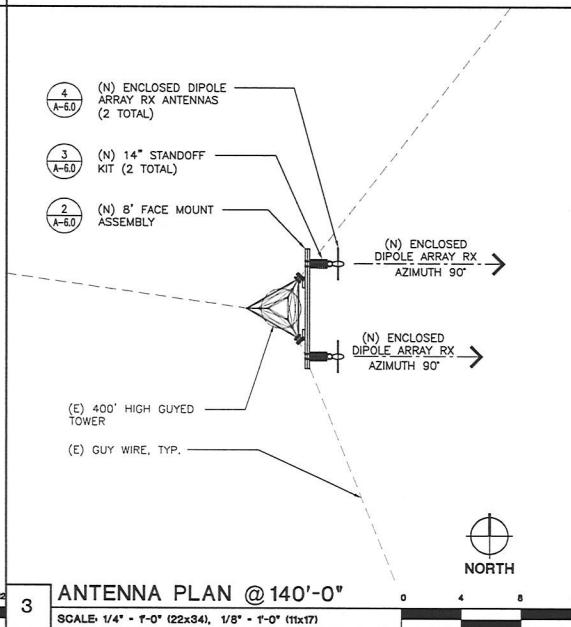
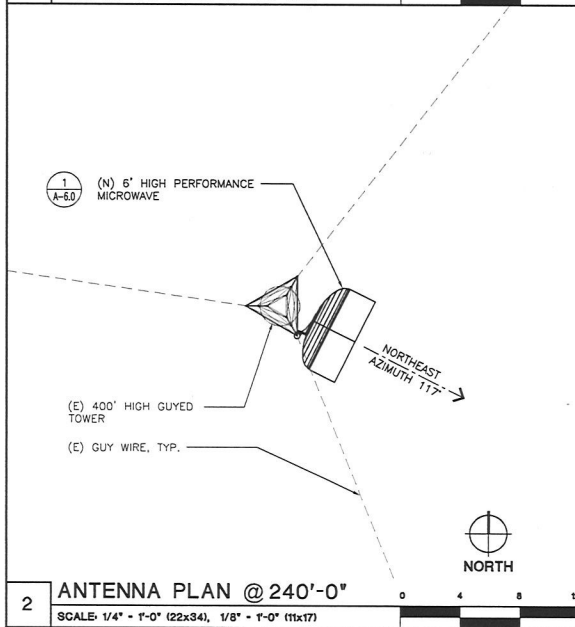


ANTENNA / COAX SCHEDULE									
RAD CENTER	PATH	MOUNTING HEIGHT	AZIMUTH	TOWER LEG	QTY.	DESCRIPTION	COAX	COAX LENGTH	
288'-0"	CRISTA	—	86°	SE	1	6' HIGH PERFORMANCE MICROWAVE ANTENNA	EW63	±318'	
240'-0"	NORTHEAST	—	117°	SE	1	6' HIGH PERFORMANCE MICROWAVE ANTENNA	EW63	±270'	
—	—	140'-0"	90°	E FACE	1	8'-7" ENCLOSED DIPOLE ARRAY RX ANTENNA	AWAS-SOPX	±170'	
—	—	140'-0"	90°	E FACE	1	8'-7" ENCLOSED DIPOLE ARRAY RX ANTENNA	AWAS-SOPX	±170'	
—	—	120'-0"	90°	E FACE	1	8'-7" ENCLOSED DIPOLE ARRAY TX ANTENNA	AWAS-SOPX	±150'	
—	—	120'-0"	90°	E FACE	1	8'-7" ENCLOSED DIPOLE ARRAY TX ANTENNA	AWAS-SOPX	±150'	

NOTE:
 PROVIDE (1) DUAL DIVERSITY TOWER TOP AMPLIFIER SYSTEM.
 SYSTEM SHALL INCLUDE: (1) DUAL DIVERSITY TOWER TOP AMPLIFIER (TTA).
 (4) 7/8" COAXIAL CABLES (2 CABLES ARE JUMPERS FROM THE TTA TO ANTENNAS).
 (1) 1/2" COAXIAL CABLE (FS14-50B).

GENERAL NOTES

- VERIFY EACH COAXIAL CABLE LENGTH, DIAMETER, ROUTING, AND ALL MOUNTING APPURTENANCES WITH OWNER PRIOR TO ORDER.
- THE MAXIMUM COAXIAL CABLE LENGTH HAS BEEN ESTIMATED IN THE TABLE ABOVE. THIS CABLE LENGTH IS APPROXIMATE AND IS TO BE USED FOR CONSTRUCTION. ACTUAL ANTENNA CABLE LENGTH MAY VARY FROM ESTIMATED MAXIMUM LENGTH AND MUST BE VERIFIED.
- TAG ALL MAIN CABLES AT THREE (3) LOCATIONS:
 A - ANTENNAS
 B - WAVEGUIDE ENTRY PORT
 C - EQUIPMENT CABINET
- EACH COAX SHALL BE GROUNDED AT (3) THREE LOCATIONS; ANTENNA, TOWER BASE AND BUILDING ENTRY PORT.



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PROJECT MANAGER: EJC

PREPARED BY: LM

APPROVED BY: PH

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05/24/16	ISSUED FOR REVIEW

PLAN REVIEWERS SIGNATURE

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REGISTERED ARCHITECT

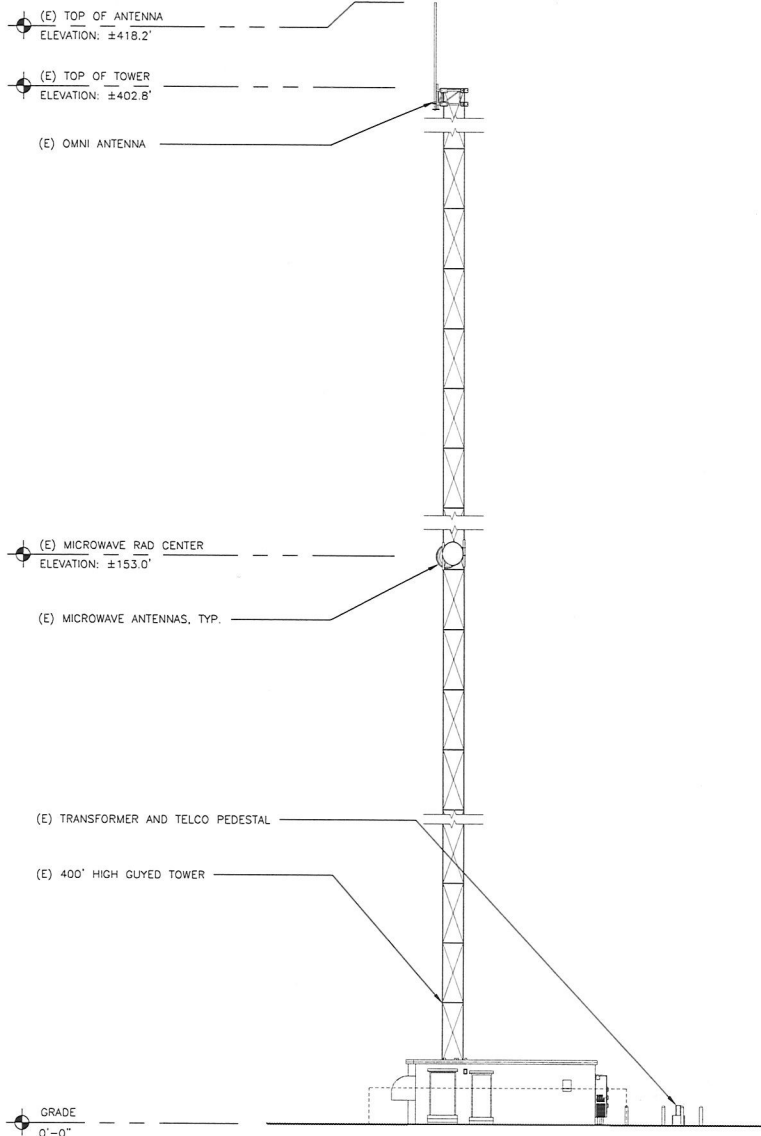
PAUL NIXON
STATE OF WASHINGTON
08/23/2016

SHEET NAME

ANTENNA PLAN

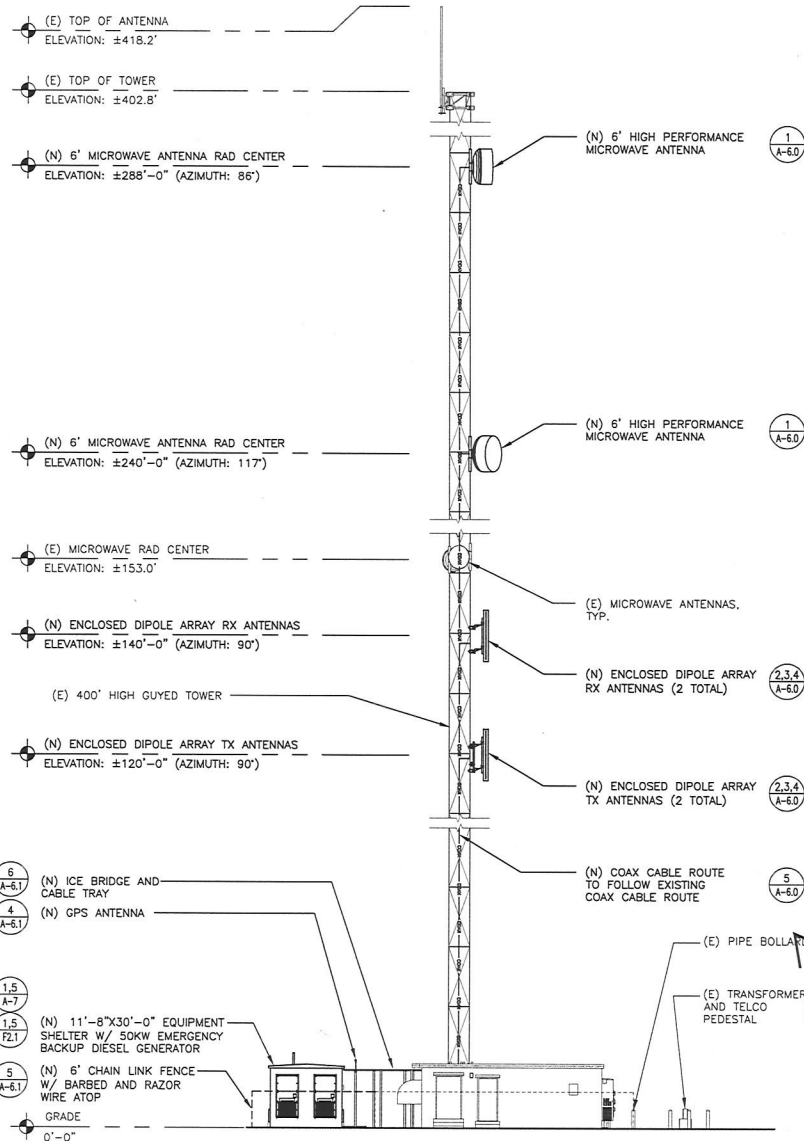
SHEET NUMBER

A-4



1 EXISTING SOUTH ELEVATION

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



2 PROPOSED SOUTH ELEVATION

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



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PROJECT MANAGER: EJC

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APPROVED BY: PN

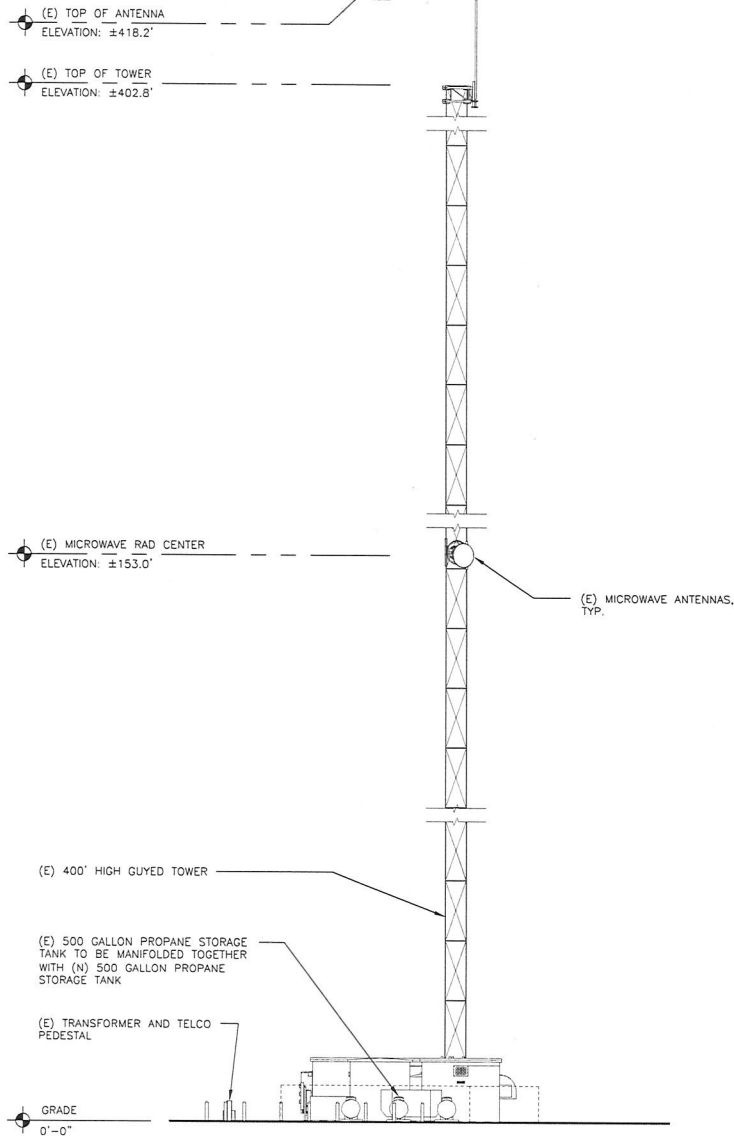
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05/26/16	ISSUED FOR REVIEW
05/24/16	ISSUED FOR REVIEW

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STATE OF WASHINGTON
08/23/2016

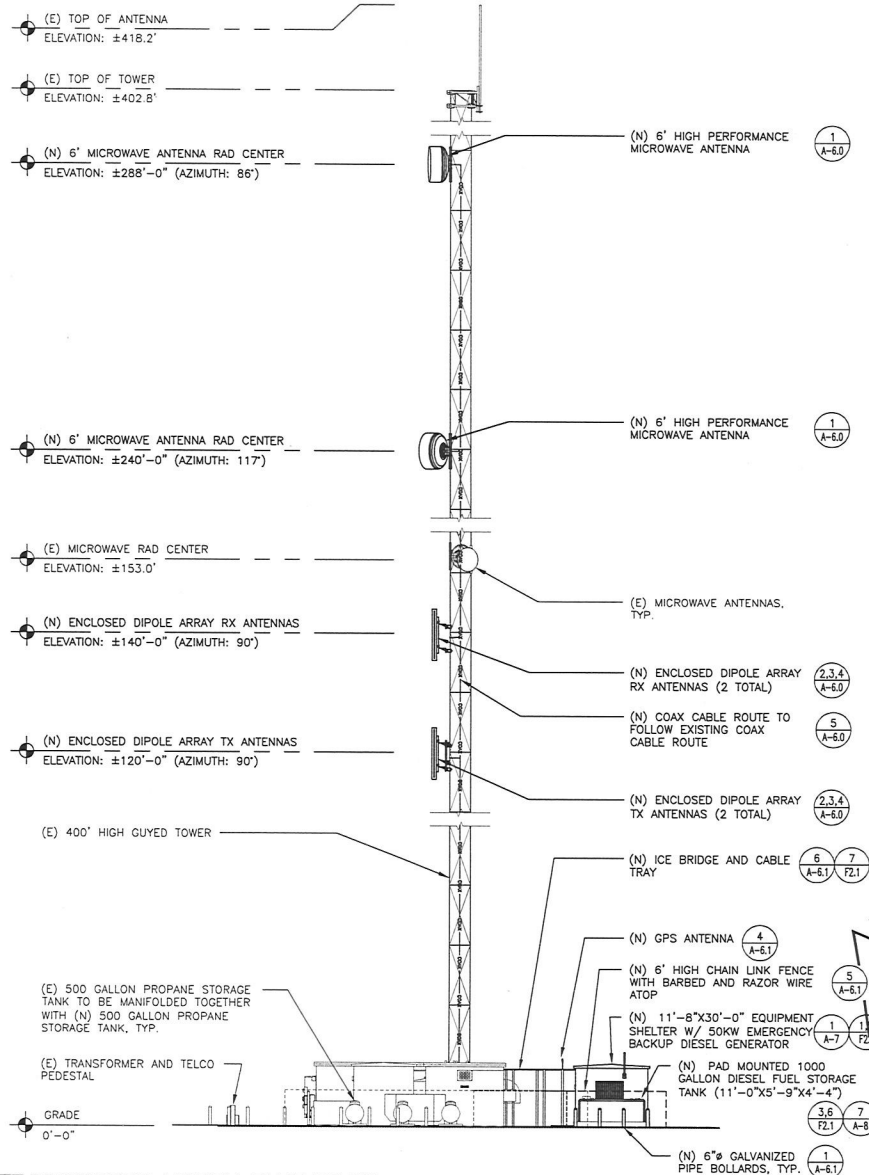
SHEET NAME
SOUTH
ELEVATIONS

SHEET NUMBER
A-5.0



EXISTING NORTH ELEVATION

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



PROPOSED NORTH ELEVATION

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)

18474



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05/24/16	ISSUED FOR REVIEW

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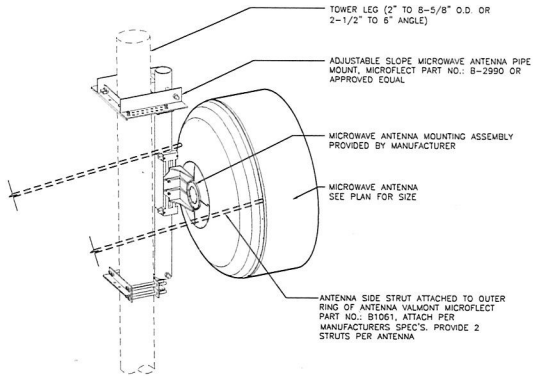
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SHEET NAME

NORTH ELEVATIONS

SHEET NUMBER

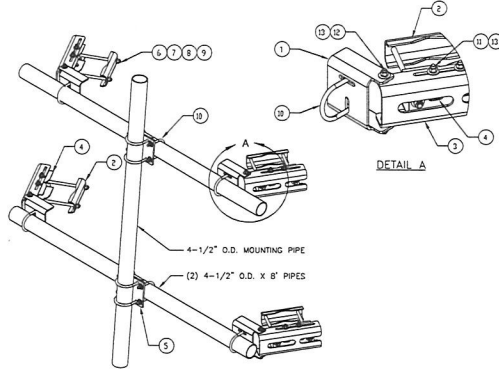
A-5.1



NOTE:
CONTRACTOR TO INSTALL
HORIZONTAL SUPPORT AS REQUIRED

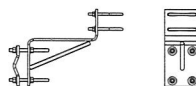
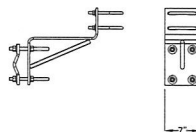
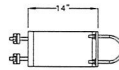
1 MW ANTENNA MOUNT ASSEMBLY NOT TO SCALE

ITEM	PART NO.	DESCRIPTION	QTY	WEIGHT
1	MPG87213	CHANNEL PIVOT BRACKET 4-1/2" DIA.	4	13.31 LBS
2	SALU08076	CLAMP PLATE	4	8.43 LBS
3	MPG87218	1/4" DIA. FACE BRACKET MOUNTING	4	2.33 LBS
4	MPG87218	WASHER	4	12.58 LBS
5	MPG87218	CROSSOVER PLATE 4-5/8" O.D. TO 4-5/8" O.D.	2	10.86 LBS
6	MPG87218	3/4" X 1/4" GALV. THREADED ROD	24	1.95 LBS
7	QWL-05	3/4" GALV. LOCK WASHER	16	0.50 LBS
8	QWL-05	3/4" GALV. FLAT WASHER	16	0.13 LBS
9	QWL-05	3/4" GALV. HEX. NUT	16	0.04 LBS
10	QWL-05	3/4" X 1-1/2" GALV. U-BOLT KIT (A202)	4	1.43 LBS
11	QWL-05	3/4" X 1-1/2" GALV. U-BOLT KIT (A202)	4	0.27 LBS
12	QWL-05	3/4" X 1-1/2" GALV. U-BOLT KIT (A202)	4	0.27 LBS
13	QWL-05	3/4" GALV. FLAT WASHER	24	0.13 LBS

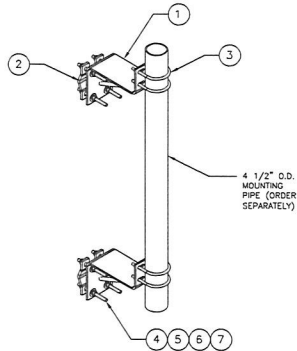


COMMSCOPE TF-M4-B

2 TOWER FACE MOUNT ASSEMBLY NOT TO SCALE



ITEM	PART NO.	DESCRIPTION	QTY	WEIGHT
1	MPG87213	Channel Adapter	4	20.93 LBS
2	QWL08709	CHANNEL PIVOT BRACKET	4	12.43 LBS
3	SALU08076	CLAMP PLATE	4	8.43 LBS
4	QWL08074	WASHER	4	12.58 LBS
5	MPG87213	CROSSOVER PLATE 3-1/2" O.D. TO 4-5/8" O.D.	2	11.01 LBS
6	QWL-05	3/4" X 1-1/2" GALV. U-BOLT KIT (A202)	24	1.95 LBS
7	QWL-05	3/4" GALV. LOCK WASHER	24	0.50 LBS
8	QWL-05	3/4" X 1-1/2" GALV. THREADED ROD	8	1.99 LBS
9	QWL-05	3/4" GALV. FLAT WASHER	16	0.04 LBS
10	QWL-05	3/4" GALV. HEX. NUT	24	0.04 LBS
11	QWL-05	3/4" X 1-1/2" GALV. U-BOLT KIT (A202)	4	1.43 LBS
12	QWL-05	3/4" X 1-1/2" GALV. U-BOLT KIT (A202)	4	0.27 LBS
13	QWL-05	3/4" X 1-1/2" GALV. U-BOLT KIT (A202)	4	0.27 LBS
14	QWL-05	3/4" GALV. FLAT WASHER	24	0.13 LBS



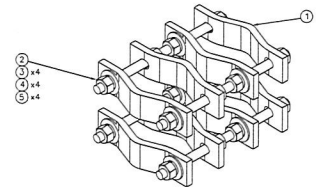
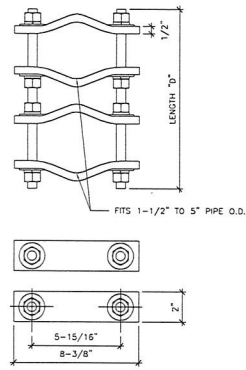
COMMSCOPE TF-ST

3 TOWER FACE MOUNT 14" STAND OFF NOT TO SCALE

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	8	DCP	CLAMP SET 1 1/2" THICK, 8-3/8"	D	2.40	19.20
2	8	C	5/8" THREADED ROD	D	0.13	1.04
3	16	GBB-12	5/8" HDG. HEAVY HD HEX NUT		0.13	2.08
4	16	GBB-18	5/8" HDG. LOCKWASHER		0.07	1.12
5	16	GBB-18	5/8" HDG. USS FLATWASHER		0.07	1.12

VARIABLE PARTS TABLE						
ASSEMBLY "A"	QTY "B"	PART "C"	LENGTH "D"	UNIT WT "E"	UNIT WT "F"	TOTAL WEIGHT
DCP12K	4	GSR-12	12"	1.05	4.18	27.01
DCP18K	4	GSR-18	18"	1.57	6.27	29.10

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1. PRODUCT DATA OBTAINED FROM PUBLISHED MANUFACTURER DATA SHEETS AND IS SUBJECT TO CHANGE. CONTRACTOR TO VERIFY INFORMATION PRIOR TO ORDERING.
2. THIS DRAWING, INCLUDING RELATED PARTS, DESIGNS AND SPECIFICATIONS, IS THE EXCLUSIVE PROPERTY OF SITE PRO 1 INC. AND PROVIDED SOLELY FOR THE PURPOSE OF SPECIFYING AND IDENTIFYING SITE PRO 1 PARTS ON PROPOSAL DRAWINGS, BIDS, AND SITE PLANS. ANY OTHER USE OF THESE MATERIALS IS EXPRESSLY PROHIBITED.



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4 SITE PRO DCP12K PIPE TO PIPE CLAMP SET NOT TO SCALE

5 CABLE ROUTING DETAIL NOT TO SCALE

0 100 200 300

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PREPARED BY: LM

APPROVED BY: PN

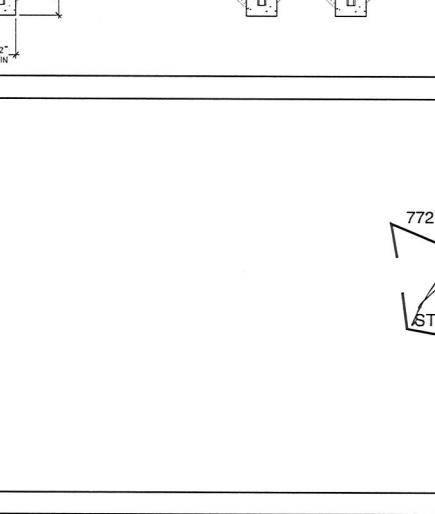
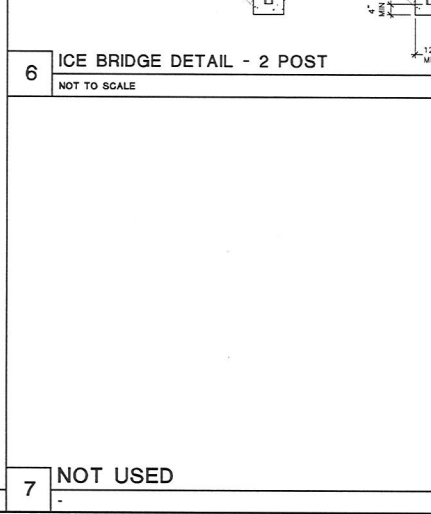
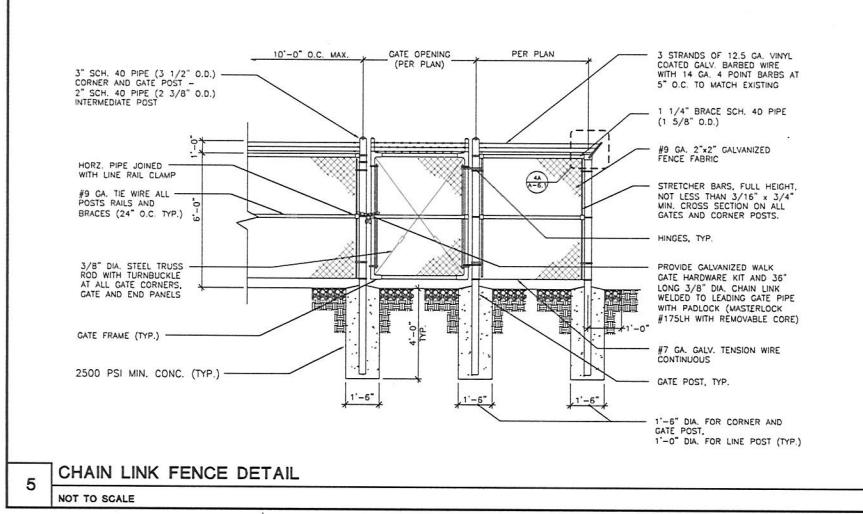
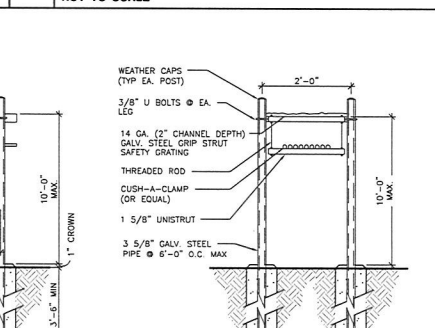
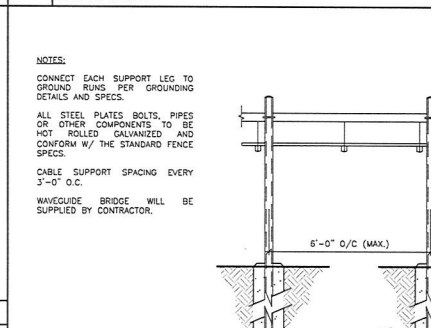
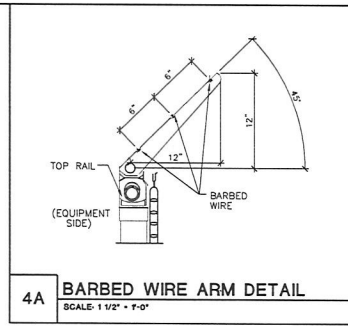
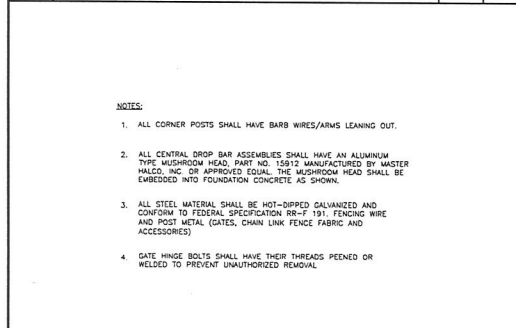
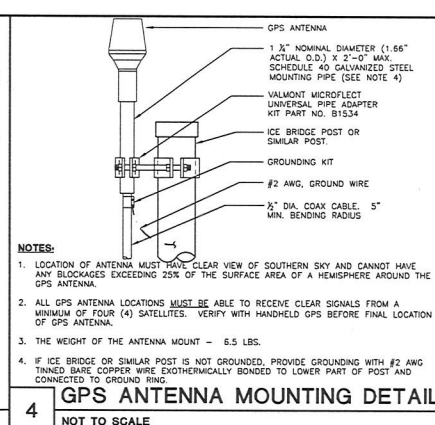
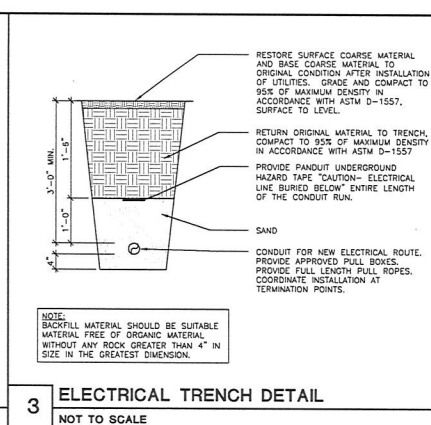
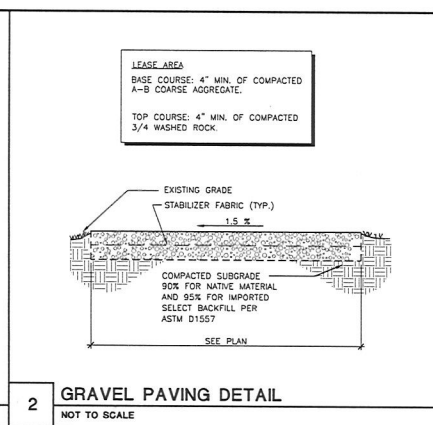
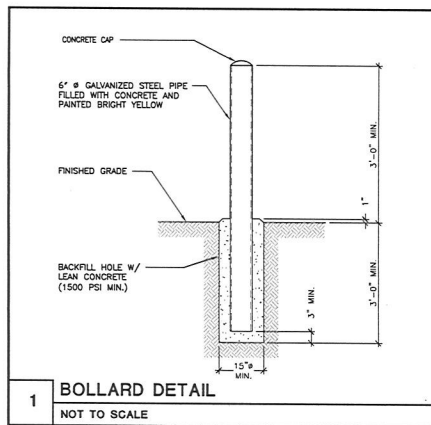
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PLAN REVIEWERS SIGNATURE

7727
ARCHITECT
PAUL NIXON
STATE OF WASHINGTON
06/23/2016

SHEET NAME
DETAILS

SHEET NUMBER
A-6.0





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PROJECT MANAGER: EJC

PREPARED BY: LM

APPROVED BY: PN

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05/24/16	ISSUED FOR REVIEW

PLAN REVIEWERS SIGNATURE

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REGISTERED ARCHITECT

Paul Nixon

PAUL NIXON

STATE OF WASHINGTON

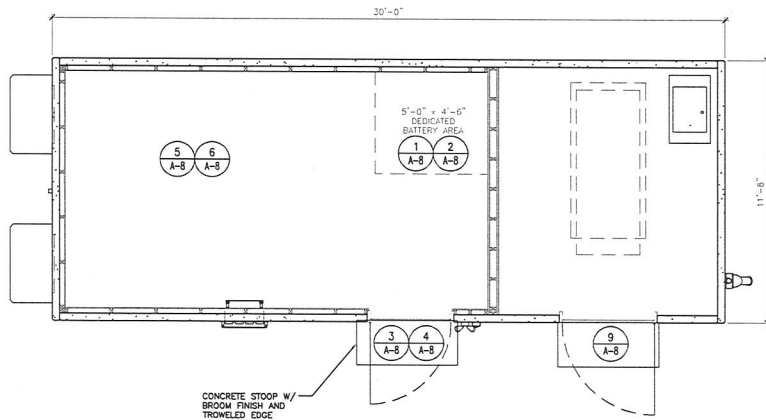
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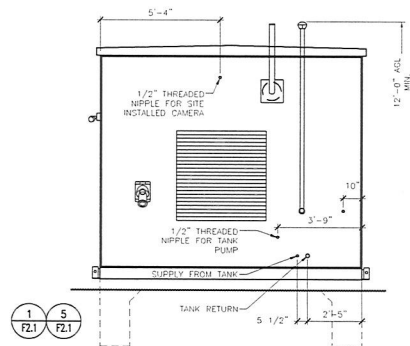
A-6.1



- NOTES:
1. SHELTER IS OWNER FURNISHED, CONTRACTOR INSTALLED (O.F.C.I.)
 2. ALL MEASUREMENTS SHALL BE VERIFIED WITH PREFABRICATED SHELTER SHOP DRAWING PRIOR TO ANY CONSTRUCTION WORK OR COORDINATION.
 3. REFER TO DETAIL, STRUCTURAL DRAWINGS FOR FOUNDATION AND DETAIL FOR SHELTER ANCHORING TO FOUNDATION.
 4. CONTRACTOR TO USE EXOTHERMIC WELD AT ALL GROUND TAILS FROM BUILDING TO GROUND RING, SEE ALSO GROUNDING PLAN.

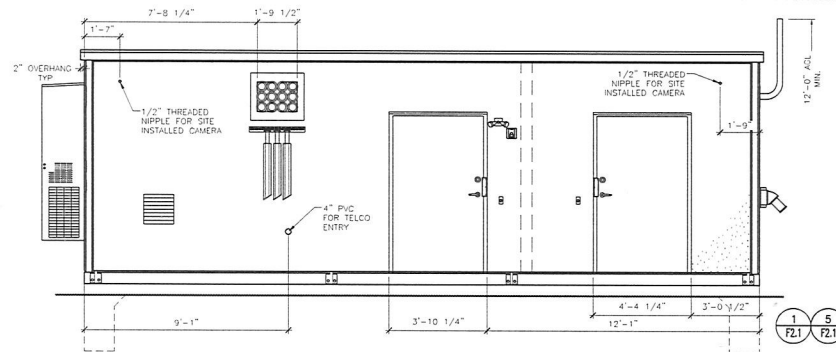
1 EQUIPMENT SHELTER PLAN

SCALE 3/8" = 1'-0" (22x34) 3/16" = 1'-0" (11x17)



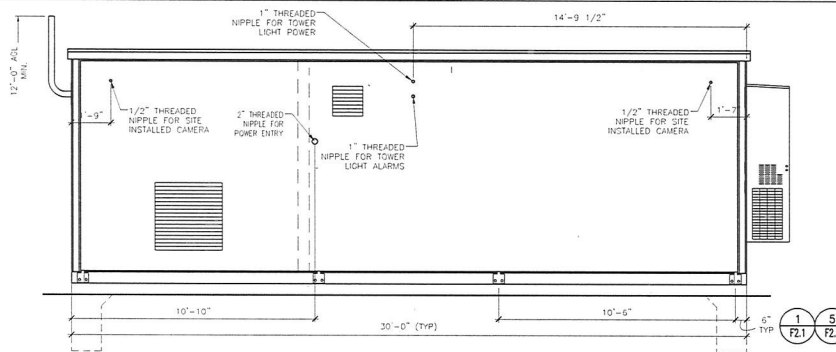
4 RIGHT ELEVATION

SCALE 3/8" = 1'-0" (22x34) 3/16" = 1'-0" (11x17)



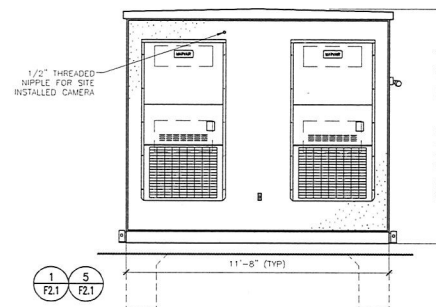
2 FRONT ELEVATION

SCALE 3/8" = 1'-0" (22x34) 3/16" = 1'-0" (11x17)



3 REAR ELEVATION

SCALE 3/8" = 1'-0" (22x34) 3/16" = 1'-0" (11x17)



5 LEFT ELEVATION

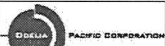
SCALE 3/8" = 1'-0" (22x34) 3/16" = 1'-0" (11x17)



SUQUAMISH

(NEW BUILD)

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WWW.ODELIA.COM



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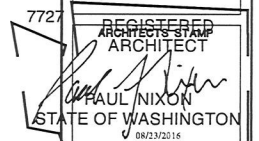
PROJECT MANAGER: EJC

PREPARED BY: LM

APPROVED BY: PN

08/23/16	ISSUED FOR PERMIT
06/23/16	ISSUED FOR REVIEW
06/17/16	ISSUED FOR REVIEW
05/26/16	ISSUED FOR REVIEW
05/24/16	ISSUED FOR REVIEW

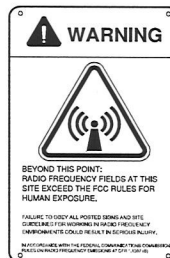
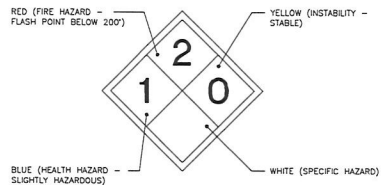
PLAN REVIEWERS SIGNATURE



SHEET NAME
EQUIPMENT
SHELTER PLAN AND
ELEVATIONS

SHEET NUMBER

A-7



NOTE: INSTALL PER MANUFACTURER SPECIFICATIONS AND FCC GUIDELINES

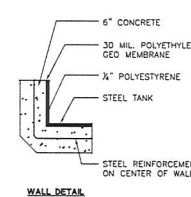
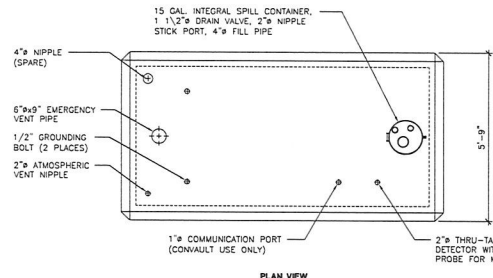
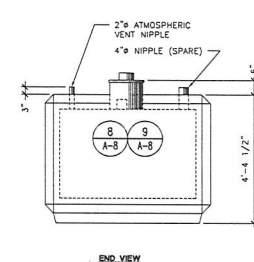
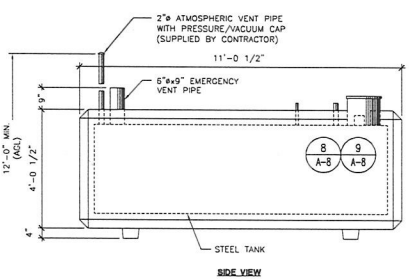
Thermal Runaway Procedure Posting
Attachment A to Thermal Runaway Procedure
Handling Overheating Batteries or Thermal Runaway
(A copy of this page shall be laminated or placed in a plastic sheet protector and posted in all battery areas.)
If you encounter batteries too hot to touch, that make hissing or whistling noises from their vents on:
• There is a fire or smoke
• If the fire alarm is sounding
• If there is a strong rotten egg (hydrogen sulfide) odor
Important: Take no action that could produce a spark and ignite airborne hydrogen.
If you encounter batteries too hot to touch but there is no smoke and it is safe to remain in the facility:
• Call for help
• Increase ventilation in battery area
• Reduce charge current either by turning off enough rectifiers so that the load barely is covered or by lowering the float voltage
• Increase cooling in the battery area if possible
• If there is a spill or other hazardous situation call the Environmental Hotline at 1-800-459-7000
Do not overreact to battery emergencies. During battery releases potentially initial concentrations of toxic gases or other chemicals and should be handled by trained First Responders (Fire Department) with appropriate protective clothing and Self-Contained Breathing Apparatus (SCBA)

9 COMBUSTIBLE LIQUIDS SIGN
NOT TO SCALE

8 HAZARDOUS MATERIAL CLASSIFICATION SIGN (DIESEL)
NOT TO SCALE

4 RF WARNING SIGN
NOT TO SCALE

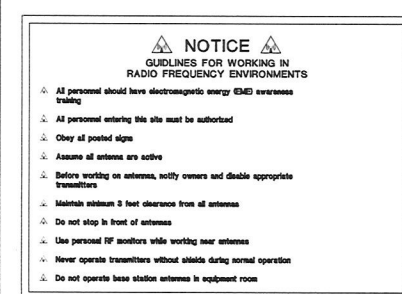
1 THERMAL RUNAWAY PROCEDURE
NOT TO SCALE



CONVAULT 1000 GAL. TANK NOTES:
1. STEEL TANK SHALL BE U.L. 142 LISTED FOR ABOVE GROUND STORAGE OF FLAMMABLE LIQUIDS.
2. STEEL TANK SKIN SHALL BE 3/16" THICK A.S.T.M. A-36 STEEL PLATE.
3. ALL EXPOSED METAL WITH THE EXCEPTION OF STAINLESS STEEL MUST BE POWDER COATED TO INHIBIT CORROSION.
4. STEEL TANKS SHALL BE RECTANGULAR IN SHAPE AND HAVE CONTINUOUS WELDS ON THE OUTSIDE.
5. STEEL TANK AND SECONDARY CONTAINMENT SHALL BE ENCASED IN SIX INCHES OF 4000 P.S.I. REINFORCED CONCRETE.
6. STEEL TANK SHALL BE PRESSURE TESTED AT 5 P.S.I.G. FOR 24 HOURS WITHOUT PRESSURE DROP.
7. TANK WALL SYSTEM SHALL BE LISTED IN ACCORDANCE WITH U.L. STANDARD 2085 AND SHOWN TO HAVE A TWO HOUR FIRE RATING.
8. VAULTS SHALL HAVE THE CAPABILITY OF PHYSICAL MONITORING BETWEEN THE PRIMARY AND THE SECONDARY CONTAINMENT.
9. THE SECONDARY CONTAINMENT SHALL CONSIST OF A 30 MIL HIGH DENSITY POLYETHYLENE GEO MEMBRANE.
10. THE VAULT SHALL BE OF A MONOLITHIC (SEAMLESS AND CONTINUOUS) CONCRETE POUR AND CONTAIN NO COLD JOINTS OR HEATH SINKS (HEAT TRANSFER POINTS) ON THE BOTTOM OR SIDES
11. VAULT SHALL HAVE COATED CONCRETE EXTERIOR TO RESIST WEATHER AND REFLECT SUNLIGHT

7 CONVAULT FUEL TANK DETAIL (1000 GAL.)
NOT TO SCALE

5 RF WARNING SIGN
NOT TO SCALE



6 RF NOTICE SIGN
NOT TO SCALE

2 CORROSIVE LIQUIDS SIGN
NOT TO SCALE



NOTE: INSTALL PER MANUFACTURER SPECIFICATIONS & FCC GUIDELINES

IN CASE OF EMERGENCY
CALL N.O.C.C.
1-800-264-6620

NOTE: INSTALL PER MANUFACTURER SPECIFICATIONS & FCC GUIDELINES

3 N.O.C.C. SIGN
NOT TO SCALE

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PROJECT MANAGER: EJC
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05/24/16	ISSUED FOR REVIEW

PLAN REVIEWERS SIGNATURE

7727
REGISTERED ARCHITECT
PAUL NIXON
STATE OF WASHINGTON
08/23/2016

SHEET NAME
FUEL TANK DETAIL & SIGNAGE

SHEET NUMBER
A-8

STRUCTURAL NOTES FOR BUILDING & FUEL TANK FOUNDATIONS

[THESE NOTES ARE TYPICAL UNLESS NOTED OR DETAILED OTHERWISE ON DRAWINGS]

CODE

ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION, SPECIFICATIONS AND STANDARDS WHERE REFERENCED ON THE DRAWINGS ARE TO BE THE LATEST EDITION.

DESIGN LOADS

DEAD LOADS: BUILDING WEIGHT 100.5 KIPS (80 KIPS SELF WT + 20.5 KIPS EQUIPMENT) FUEL TANK 27 KIPS (18 KIPS SELF WT + 9 KIPS FUEL)

LIVE LOADS: ROOF (SNOW LOAD) 115 PSF (PER MFR) ROOF LIVE 105 PSF (PER MFR)

(LIVE LOADS ARE REDUCED WHERE PERMISSIBLE PER IBC SECTION 1607.3.0).

EARTHQUAKE LOADS:

SITE CLASS (ASSUMED) D 1.277 ONE SECOND SPECTRAL RESPONSE ACCEL (S₁) 0.507 ONE SECOND SPECTRAL RESPONSE ACCEL (S₂) 0.852 ONE SECOND DESIGN SPECTRAL RESPONSE ACCEL (S₂) 0.507 RISK CATEGORY IV SEISMIC IMPORTANCE CATEGORY (I_s) 1.5 SEISMIC DESIGN CATEGORY D

WIND LOADS:

BASIC WIND SPEED (3 SECOND GUST) 115 MPH EXPOSURE C 1.0

SEE PLANS FOR ADDITIONAL DESIGN LOADS.

STATEMENT OF SPECIAL INSPECTIONS

SPECIAL INSPECTIONS ARE REQUIRED AS INDICATED IN THE FOLLOWING TABLE. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK IN ACCORDANCE WITH CHAPTER 1704.4 OF THE IBC.

FREQUENT AND DISTRIBUTION OF REPORTS - INSPECTION REPORTS SHALL BE PROVIDED FOR EACH DAY ON SITE BY SPECIAL INSPECTOR. STRUCTURAL OBSERVATION REPORTS SHALL BE PROVIDED AFTER EACH OBSERVATION. REPORTS SHALL BE DISTRIBUTED TO THE CONTRACTOR, ARCHITECT, ENGINEER AND BUILDING OFFICIAL.

SPECIAL INSPECTION

OPERATION	CONT	PERIODIC	REMARKS
SOBS			
EXCAVATION & FILL		X	GEOTECH ENGINEER
FOUNDATION BEARING CAPACITY VERIFICATION		X	
CONCRETE			
REINFORCING PLACEMENT		X	
ANCHOR BOLTS		X	
CONCRETE PLACEMENT	X		
EXPANSION ANCHORS		X	IF REQ'D

NOTE: ALL ITEMS MARKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17. SPECIAL INSPECTION SHALL BE PERFORMED BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE OWNER, THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING OFFICIAL SHALL BE FURNISHED WITH COPIES OF ALL RESULTS. ANY INSPECTION FAILING TO MEET THE PROJECT SPECIFICATIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGN TEAM.

FOUNDATIONS:

SOILS REPORT: NO. N/A BY N/A DATED N/A

ALLOWABLE SOIL PRESSURE: 2000 PSF (ASSUMED, TO BE FIELD VERIFIED DURING CONSTRUCTION) PASSIVE EARTH PRESSURE: 350 PSF (ASSUMED, TO BE FIELD VERIFIED DURING CONSTRUCTION) COEFFICIENT OF FRICTION: 0.35 (ASSUMED, TO BE FIELD VERIFIED DURING CONSTRUCTION)

FOOTINGS SHALL BEAR ON FIRM UNDISTURBED EARTH OR ENGINEERED GRAVEL FILL AS REQUIRED AND AT LEAST 18" BELOW ADJACENT EXTERIOR GRADE. ANY FOOTING ELEVATIONS SHOWN IN THE DRAWINGS REPRESENT MINIMUM DEPTHS AND ARE FOR BIDDING ONLY. ACTUAL FOOTING ELEVATIONS ARE SUBJECT TO SITE CONDITIONS AND MUST THEREFORE BE ESTABLISHED BY THE CONTRACTOR. FOOTINGS SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE, UNLESS NOTED OTHERWISE.

IMPORTED STRUCTURAL FILL AND BACKFILL MATERIAL SHOULD CONSIST OF CLEAN, WELL GRADED GRANULAR MATERIAL FREE OF DEBRIS OR ORGANICS WITH A MAXIMUM PARTICLE DIAMETER OF THREE INCHES AND NO MORE THAN 10% FINES (PASSING THE #200 SIEVE).

FILL AND BACKFILL MATERIAL SHOULD BE PLACED IN LEVEL LIFTS NOT EXCEEDING TWELVE (12") INCHES IN LOOSE THICKNESS AND COMPACTED TO A MINIMUM OF 98% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM TEST METHOD D1557-70.

EXCAVATIONS AND DRAINAGE INSTALLATION SHALL BE OBSERVED BY A SOILS ENGINEER RETAINED BY THE OWNER. IF EXCAVATION SHOWS SOIL CONDITIONS TO BE OTHER THAN THOSE ASSUMED ABOVE NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.

CONCRETE

ALL CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED, AND PLACED IN ACCORDANCE WITH SECTION CHAPTER 5 OF ACI 318 AND THE AMERICAN CONCRETE INSTITUTE'S SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 308).

ALL CONCRETE SHALL BE STONE-AGGREGATE CONCRETE HAVING A UNIT WEIGHT OF APPROXIMATELY 150 POUNDS PER CUBIC FOOT.

CONCRETE STRENGTHS AT 28 DAYS (F'c) AND MIX CRITERIA SHALL BE AS FOLLOWS:

TYPE OF CONSTRUCTION	Fc	MAXIMUM WATER/CEMENT RATIO	MIN CEMENT CONTENT PER CUBIC YARD	MAXIMUM SHRINKAGE STRAIN
SLABS ON GRADE	3000 PSI	0.55	5 1/2 SACK	N/A
FOOTINGS	3000 PSI	0.55	5 1/2 SACK	N/A
GRADE BEAMS	3000 PSI	0.50	5 1/2 SACK	N/A
ALL OTHER CONC.	3200 PSI	0.45	5 SACK	N/A

THE MINIMUM AMOUNT OF CEMENT LISTED ABOVE MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER, AND ADMIXTURES AS WELL AS THE WATER-CEMENT RATIO, SLUMP, CONCRETE YIELD, AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH CHAPTER 5 OF ACI 318.

ALL CONCRETE EXPOSED TO WEATHER OR TO FREEZING TEMPERATURES SHALL BE AIR-ENTRAINED IN ACCORDANCE WITH ACI 318 TABLE 17.2 FOR MODERATE EXPOSURE CONDITION.

REINFORCING STEEL

REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, AND SHALL BE GRADE 60 (F_y = 60,000 PSI), UNLESS NOTED OTHERWISE. GRADE 60 REINFORCING BARS INDICATED ON DRAWINGS TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING COMPLYING WITH ASTM A615 MAY BE WELDED IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN AWS D1.4 ARE SUBMITTED.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. PROVIDE WELDED WIRE FABRIC IN SHEETS NOT ROLLS. LAP WELDED WIRE FABRIC 12" AT SIDES AND ENDS.

REINFORCING STEEL SHALL BE DETAILED INCLUDING HOOKS AND BENDS IN ACCORDANCE WITH SP-66 AND ACI 318R, LATEST EDITIONS. UNLESS OTHERWISE NOTED, REINFORCING SPICE LENGTHS AND DEVELOPMENT LENGTHS SHALL BE PER SCHEDULE.

MECHANICAL SPLICING OF REINFORCING BARS, WHERE INDICATED ON THE DRAWINGS, SHALL BE BY AN ICCO APPROVED SYSTEM, SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

REINFORCING SHALL BE PLACED AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE. WET-SETTING EMBEDDED ITEMS IS NOT ALLOWED WITHOUT PRIOR ENGINEER APPROVAL. BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL NOT BE FIELD BENT UNLESS SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. REFER TO CHAPTER 7 OF ACI 318 FOR OTHER REINFORCING STEEL REQUIREMENTS.

MINIMUM LAPS AND EMBEDMENT

UNLESS OTHERWISE NOTED, REINFORCING SPICE LENGTHS AND DEVELOPMENT LENGTHS SHALL BE AS TABULATED BELOW:

BAR SIZE	F _c = 3500 PSI					
	DEVELOPMENT LENGTH			LAP SPICE		
	TENSION	COMPRESSION	ALL BARS	TENSION	OTHER BARS	COMPRESSION
#3	24	18	9	30	22	12
#4	31	24	12	41	31	15
#5	39	30	15	51	39	19
#6	47	36	18	61	47	23
#7	68	53	21	89	68	27
#8	78	60	24	102	78	30

BAR SIZE	F _c = 3000 PSI					
	DEVELOPMENT LENGTH			LAP SPICE		
	TENSION	COMPRESSION	ALL BARS	TENSION	OTHER BARS	COMPRESSION
#3	22	17	9	28	22	12
#4	29	22	11	37	29	15
#5	36	28	14	47	36	19
#6	43	33	17	56	43	23
#7	62	48	20	81	62	27
#8	72	55	22	93	72	30

NOTE:

- ALL LENGTHS ARE IN INCHES.
- ALL LAP SPICES ARE CLASS B.
- "TOP BARS" ARE HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

CONCRETE COVER ON REINFORCING

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"

CONCRETE EXPOSED TO EARTH AND WEATHER: #6 BARS AND LARGER 2" #5 BARS AND SMALLER 1 1/2"

CONCRETE NOT EXPOSED TO EARTH OR WEATHER: GLARE WALLS AND JOISTS 3/4" COLUMN TIES OR SPIRALS AND BEAM STIRRUPS 1 1/2"

CONCRETE GENERAL NOTES

VERTICAL BARS SHALL START FROM TOP OF FOOTING. HORIZONTAL BARS SHALL START A DISTANCE OF 1/2 THE NORMAL BAR SPACING FROM TOP OF FOOTING AND TOP OF FRAMED SLABS. IN ADDITION, THERE SHALL BE A HORIZONTAL BAR AT A MINIMUM OF 1" FROM TOP OF WALL AND BOTTOM OF FRAMED SLABS.

PROVIDE CORNER BARS TO MATCH THE HORIZONTAL REINFORCING WITH TENSION LAP SPICE AT EACH SIDE PER TABLE, OR BEND ONE SIDE OVER TO PROVIDE TENSION LAP.

PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS ON GRADE TO BREAK LAP SLAB INTO RECTANGULAR AREAS OF NOT MORE THAN 400 SQUARE FEET EACH. AREAS TO BE AS SQUARE AS PRACTICAL AND HAVE NO ACUTE ANGLES. JOINT LOCATIONS TO BE APPROVED BY THE ARCHITECT.

ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND PROPERLY PREPARED IMMEDIATELY PRIOR TO POURING OF CONCRETE. DOVEL STEEL SHALL BE THE SAME SIZE AND SPACING AS MAIN REINFORCING DETAILED BEYOND JOINT.

SEE ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF OPENINGS IN CONCRETE WALLS, FLOORS AND ROOF. UNLESS INDICATED OTHERWISE, REINFORCE AROUND OPENINGS GREATER THAN 12" IN EITHER DIRECTION WITH (1) #5 EACH SIDE AND (2) #5 x 4'-0" DIAGONAL AT EACH CORNER. EXTEND BARS 2'-0" BEYOND EDGE OF OPENING. IF 2'-0" IS UNAVAILABLE, EXTEND AS FAR AS POSSIBLE AND HOOK. HOOK ALL REINFORCING INTERFERED BY OPENINGS.

BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL NOT BE FIELD BENT UNLESS SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES. PROVIDE 1/4" CHAMFER AT ALL CORNERS EXCEPT AS NOTED.

STRUCTURAL STEEL

STRUCTURAL STEEL, DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION.

SHAPES SHALL CONFORM TO ASTM A992, F_y = 50 KSI.

PLATES, ANGLES, AND RODS SHALL CONFORM TO ASTM A36, F_y = 36 KSI.

STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B, F_y = 45 KSI.

STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, F_y = 35 KSI.

BOLTS CONNECTING STEEL MEMBERS SHALL CONFORM TO ASTM A325-N. BOLTS SHALL BE 3/4" MINIMUM, AND ANCHOR BOLTS SHALL CONFORM TO ASTM A307.

CONTRACTOR SHALL PROVIDE CONNECTION ADJUSTMENT TOLERANCES TO SATISFY THE REQUIREMENTS OF AISC MANUAL OF STEEL CONSTRUCTION.

WELDING

WELDING SHALL CONFORM TO AWS "STRUCTURAL WELDING CODE", LATEST EDITION. ALL WELDING SHALL BE DONE WITH 70 KSI LOW HYDROGEN ELECTRODES, WHERE NOT CALLED OUT, MINIMUM FILLET WELD SIZE SHALL BE PER TABLE 5.8 IN AWS D1.3, LATEST EDITION.

WELDING OF REINFORCING BARS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY CALLED OUT ON DRAWINGS OR APPROVED BY STRUCTURAL ENGINEER. WELDING OF GRADE 60 REINFORCING BARS SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES. WELDING OF GRADE 40 REINFORCING BARS SHALL BE PERFORMED USING E70XX ELECTRODES. SEE REINFORCING NOTES FOR MATERIAL REQUIREMENTS OF WELDED BARS. WELDING WITHIN 4" OF COLD BENDS IN REINFORCING BARS IS NOT PERMITTED.

ALL WELDING SHALL BE DONE BY WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO) CERTIFIED WELDERS.

EXISTING BUILDING

CONTRACTOR SHALL VERIFY ALL DIMENSIONS, MEMBER SIZES AND CONDITIONS OF THE EXISTING BUILDING DEPICTED IN THE DRAWINGS, AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES FOR POSSIBLE REVISION.

CONTRACTOR RESPONSIBLE FOR COMPLETELY SEALING ALL AREAS WHERE EXISTING ROOF MATERIAL IS PENETRATED OR REMOVED. PROVIDE WATER PROOFING AS REQUIRED BY THE ARCH.

GENERAL

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BEFORE PROCEEDING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING.

CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION STABILITY AND TEMPORARY SHORING AS NECESSARY UNTIL PERMANENT SUPPORT AND STIFFENING ARE INSTALLED.

CONTRACTOR INSTALLED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF A SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.

ABBREVIATIONS			
(A)	ABOVE	GLB	GLUE-LAMINATED BEAM
AB	ANCHOR BOLT	HORIZ	HORIZONTAL
ALT	ALTERNATE	KP	KING POST
ARCH	ARCHITECT	KSI	KIPS PER SQUARE INCH
(B)	BELOW	L	ANGLE
BD	BAR DIAMETER	MECH	MECHANICAL
BLKG	BLOCKING	MF	MOMENT FRAME
BM	BEAM	MTL	METAL
BOT	BOTTOM	NS	NEAR SIDE
BRNG	BEARING	OC	ON CENTER
BTWN	BETWEEN	OPP	OPPOSITE
CP	COMPLETE JOINT PENETRATION	PL	PLATE
CLR	CLEAR	PLCS	PLACES
CMU	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
COL	COLUMN	PSF	POUNDS PER SQUARE FOOT
CONC	CONCRETE	P/T	POST TENSIONED
CONN	CONNECTION	PT	PRESSURE TREATED
CONT	CONTINUOUS	REINF	REINFORCING
COORD	COORDINATE	REQD	REQUIRED
DBL	DOUBLE	SCHED	SCHEDULE
DET	DETAIL	SIM	SIMILAR
DIA	DIAMETER	SOG	SLAB ON GRADE
DIM	DIMENSION	STD	STANDARD
DIR	DIRECTION	STIFF	STIFFENER
EA	EACH	STL	STEEL
ELEV	ELEVATION	SYMM	SYMMETRICAL
ES	EACH SIDE	SW	SHEARWALL
EX	EXISTING	TOC	TOP OF CONCRETE
EXP	EXPANSION	TOS	TOP OF STEEL
FLR	FLOOR	TOW	TOP OF WALL
FDN	FOUNDATION	TYP	TYPICAL
FTG	FOOTING	UNO	UNLESS NOTED OTHERWISE
FS	FAR SIDE	VERT	VERTICAL
GC	GENERAL CONTRACTOR	WF	WIDE FLANGE



King County

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FAX: (425) 778-5536

CG PROJECT# 16015.914

PROJECT MANAGER JAC

PREPARED BY J05

APPROVED BY WTM

REV	DATE	DESCRIPTION

PLAN REVIEWERS SIGNATURE

ENGINEERS STAMP



SHEET NAME
BUILDING AND FUEL TANK
FOUNDATIONS
STRUCTURAL NOTES

SHEET NUMBER

F.1.1

(NEW BUILD)



Coca-Cola Pacific Corporation

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C.G.
ENGINEERING
250 4TH AVE. S., SUITE 200
EDMONDS, WASHINGTON 98020
PHONE (425) 778-8500
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CG PROJECT#16015.914

PROJECT MANAGER	JAC
-----------------	-----

PREPARED BY	ZOS
-------------	-----

APPROVED BY MTM

REV	DATE	DESCRIPTION
A	06/21/16	PERMIT SUBMITTAL

PLAN REVIEWERS SIGNATURE _____

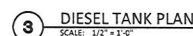
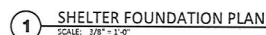
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SHEET NAME
BUILDING AND TANK
FOUNDATION PLANS
AND DETAILS

SHEET NUMBER

F2.1

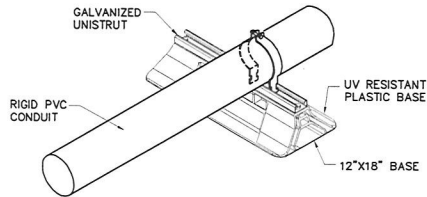


MISCELLANEOUS EQUIPMENT SCHEDULE

SYMBOL	ITEM DESCRIPTION	SPECIFIED MFR & MODEL NO.	AREA SERVED	EQUIPMENT CAPACITY	ELECTRICAL		REMARKS
					AMPS	VOLTS/PH	
LDP-1	TANK GAUGE AND LEAK DETECTION PANEL	FUEL SENTRY TG-EL-D4A	TANK, DAY TANK	6 INPUT	4.2	120/1	PROVIDE NEMA 3 ENCLOSURE

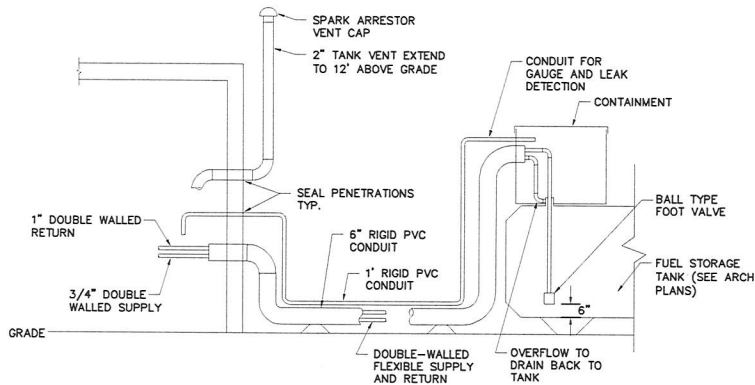
LEAK DETECTION

PROVIDE LEAK MONITORING OF THE DOUBLE-WALLED FUEL PIPING, AND THE DOUBLE-WALLED FUEL TANK.
 PROVIDE LIQUID DETECTOR IN DOUBLE WALLED FUEL TANK.
 PROVIDE DETECTOR FOR DOUBLE WALLED FLEXIBLE FUEL PIPING.
 PROVIDE A LIQUID DETECTOR IN THE DOUBLE WALLED DAY TANK.
 PROVIDE CONDUIT AND WIRE FROM PANEL TO EACH LEAK DETECTION DEVICE.



PIPE SUPPORT
NOT TO SCALE

1
M1.0

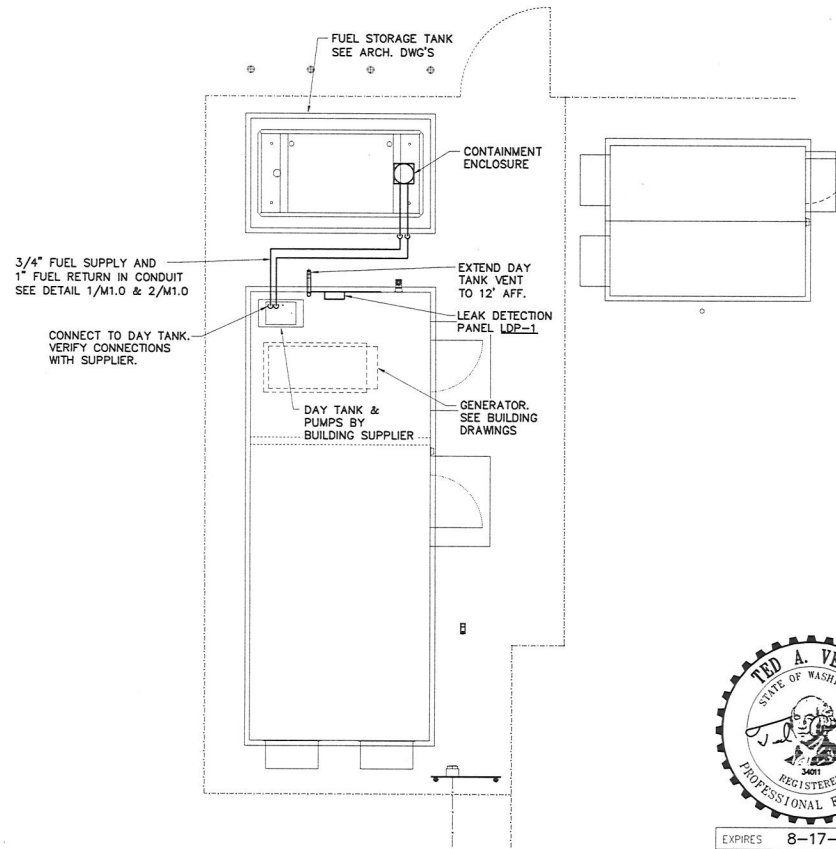


FUEL PIPING DIAGRAM
NOT TO SCALE

2
M1.0

DRAWING NOTES:

- FUEL PIPING INSTALLATION SHALL CONFORM TO 2015 NFPA 30.
- SEAL ALL CONDUIT AND CONTAINMENTS TO BE WATER TIGHT.
- CONTRACTOR SHALL LAY OUT CONTAINMENT CONDUITS AND PIPING SO THAT ANY POINT OF LEAKAGE IS CAUGHT BY SECONDARY CONTAINMENT AND ALARMS WITH THE LEAK DETECTION SYSTEM.
- COORDINATE CONNECTION OF LEAK DETECTION SYSTEM TO REMOTE MONITORING.



FUEL SYSTEM - SITE PLAN

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



EXPIRES 8-17-17

VEACH Consulting Engineers
 12002 Pacific Ave. S. Suite B Tacoma, WA 98444
 P: 253-274-5701 Proj# 1532



SUQUAMISH

(NEW BUILD)
 22063 DEWBERRY ROAD NE
 INDIANOLA, WA 98342



PROJECT MANAGER:

PREPARED BY: AJH

APPROVED BY: TAV

10/22/16	PERMIT
10/10/16	PRELIMINARY

PLAN REVIEWERS SIGNATURE

SHEET NAME
MECHANICAL PLAN

SHEET NUMBER
M1.0

PP1									
225 A. BUS 200 A. MAIN CIRCUIT BREAKER									
240 / 120 VOLT, 1 PHASE, 3 WIRE									
10000 AMPERE PANEL SHORT CIRCUIT RATING									
PANEL TYPE: PROVIDED WITH EQUIPMENT SHELTER									
PANEL MOUNTING: SURFACE									
NOTE: PROVIDED WITH EQUIPMENT SHELTER									
DESCRIPTION	TOTAL (VA)	BREAKER	A	P	CCT	PH	CCT	BREAKER	TOTAL (VA)
MISC #1	2800	50	2	3	A	2	50	2	MISC #2
-----	2800	125	2	5	A	6	60	0	REDUNDANT UNIT
PANEL PP2	14940	125	2	7	B	8	60	0	SURGE ARRESTOR
-----	14940	125	2	9	A	10	20	1	EXT. OFI RECEPT
EXTERIOR LTG	198	20	1	11	B	12	20	1	EQUIP. RM RECEPTS
EQ ROOM LTG	1011	20	1	13	A	14	20	1	FUEL PUMP
FIRE SUPPRESSION	198	20	1	15	B	16	20	1	LEAK CONTROL PANEL
-----	198	20	1	17	A	18	20	1	-----
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-----	198	20	1	319	B	320	20	1	



SUQUAMISH
(NEW BUILD)
22063 DEWBERRY RD. NE
INDIANOLA, WA 98342

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PROJECT MANAGER: EJC

PREPARED BY: LM

APPROVED BY: PN

08/23/16	ISSUED FOR PERMIT
06/23/16	ISSUED FOR REVIEW
06/17/16	ISSUED FOR REVIEW
05/26/16	ISSUED FOR REVIEW
05/14/16	ISSUED FOR REVIEW

PLAN REVIEWERS SIGNATURE

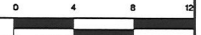
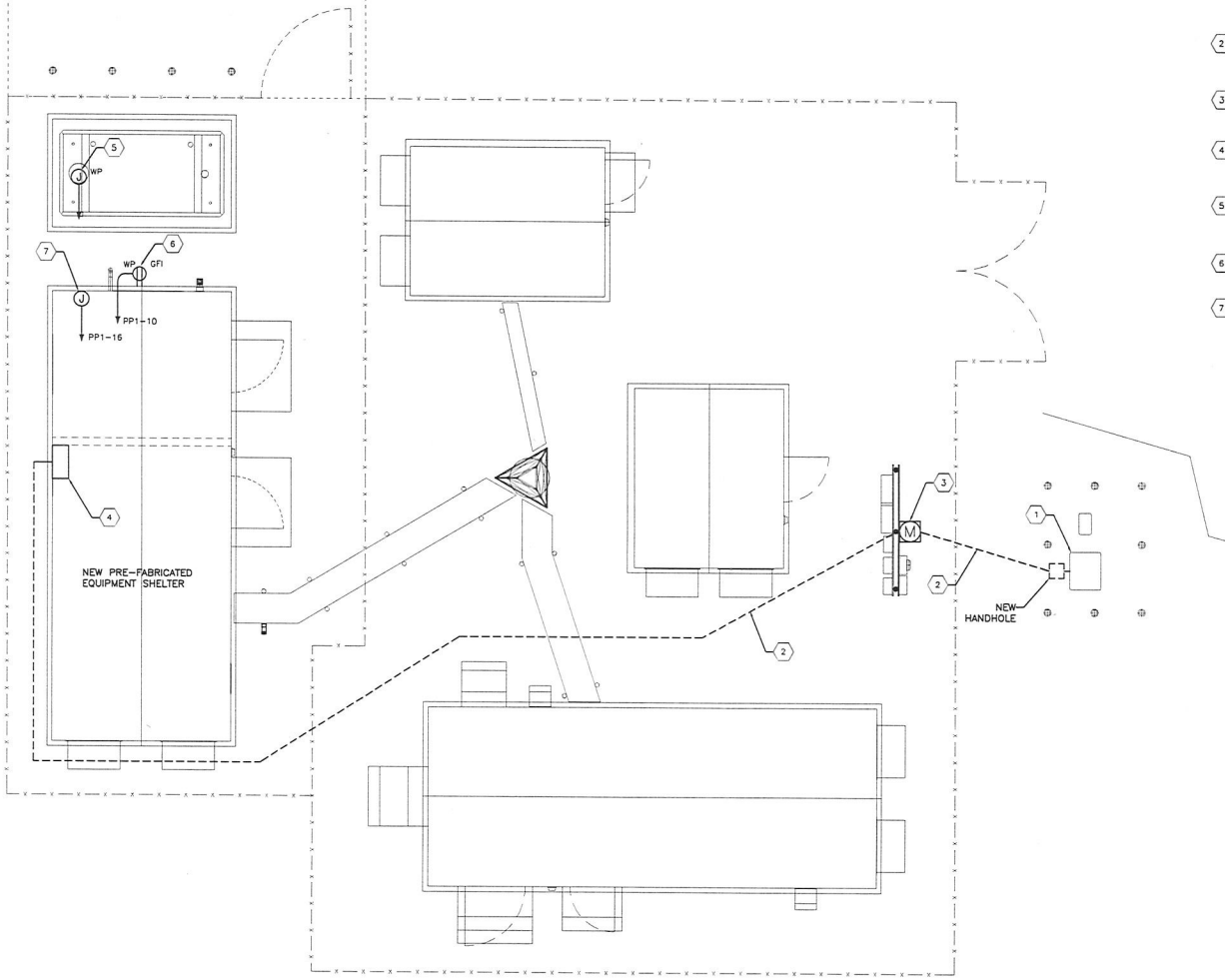
7727
REGISTERED
ARCHITECT
PAUL NIXON
STATE OF WASHINGTON
08/23/2016

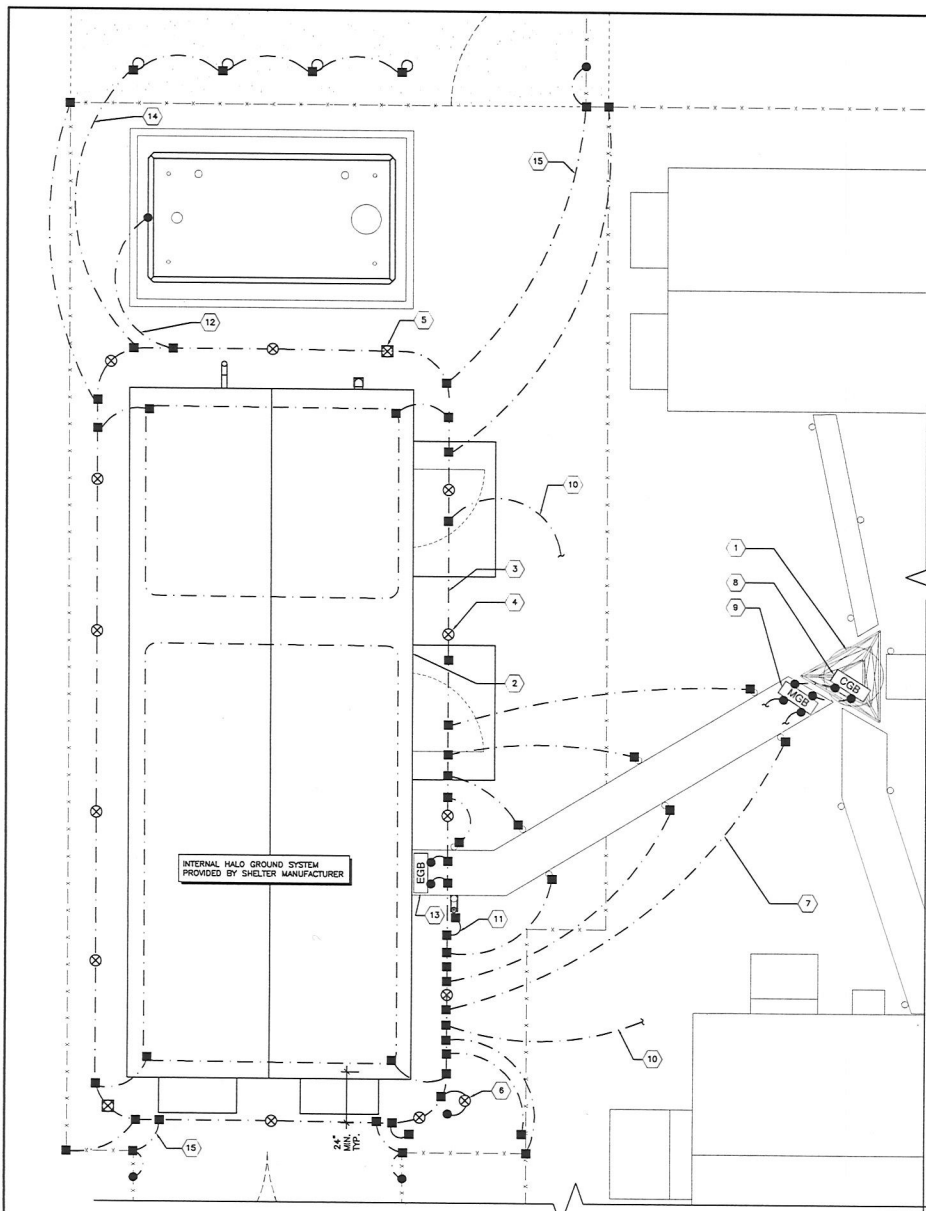
SHEET NAME
ELECTRICAL
SITE PLAN

SHEET NUMBER
E-2

KEY NOTES:

- 1 EXISTING PUGET SOUND ENERGY 50KVA PAD MOUNTED UTILITY TRANSFORMER. CONTRACTOR SHALL TERMINATE RACEWAY AT NEW HANDHOLE ADJACENT TO EXISTING TRANSFORMER PER PLAN. PROVIDE 3 FOOT CONDUCTOR PIGTAIL IN HANDHOLE FOR CONNECTION BY THE UTILITY COMPANY. BACKFILL AS REQUIRED.
- 2 NEW 120/240V 1Ø 3W UNDERGROUND SERVICE MINIMUM 36" BELOW FINISH GRADE. VERIFY EXACT ROUTING WITH LAND OWNER PRIOR TO INSTALLATION.
- 3 NEW UTILITY METER WITH MAIN BREAKER MOUNTED TO EXISTING UNISTRUT FRAME. COORDINATE INSTALLATION WITH PUGET SOUND ENERGY.
- 4 CONTRACTOR SHALL TERMINATE AT AUTOMATIC TRANSFER SWITCH PROVIDED WITH NEW PRE-MANUFACTURED EQUIPMENT SHELTER.
- 5 CONTRACTOR SHALL PROVIDE (12 #16) 3/4" C FOR ALARM CONDUCTORS AND FUEL GAUGE AT FUEL TANK. ROUTE TO NEW LEAK DETECTION PANEL LOCATED IN PRE MANUFACTURED SHELTER. FIRE SEAL ALL NEW PENETRATIONS.
- 6 CONTRACTOR SHALL PROVIDE DUPLEX RECEPTACLE MOUNTED TO EXTERIOR WALL OF PRE FABRICATED EQUIPMENT SHELTER. FIRE SEAL ALL NEW PENETRATIONS.
- 7 CONTRACTOR SHALL PROVIDE 120V CONNECTION TO NEW LEAK DETECTION PANEL.





GENERAL NOTES:

1. ALL CADWELD CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COVERED WITH TWO (2) COATS OF SHERWIN WILLIAMS GALVANITE B350W3 OR EQUAL.
2. ALL ELECTRICAL CADWELD AND MECHANICAL GROUND CONNECTIONS WILL HAVE NON-OXIDATION COMPOUND APPLIED TO CONNECTION.
3. ANY METAL OBJECTS WITHIN 6 FEET OF THE EXTERNAL GROUND RING SHALL BE GROUNDED.
4. ALL GROUNDING MATERIALS AND CADWELD MOLDS, SHOTS, ETC. SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED.
5. THE ELECTRICAL CONTRACTOR SHALL FOLLOW GROUNDING SYSTEM INSTALLED AND TESTING PROCEDURES AS DESCRIBED IN THE GENERAL ELECTRICAL PROVISIONS.
6. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
7. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
8. OBSERVE NEC AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
9. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 5 OHMS.
10. SITE TO COMPLY WITH R56 STANDARDS FOR GROUNDING.

LEGEND

ITEM	DESCRIPTION
⊗	3/4" DIAMETER x 10'-0" LONG COPPER CLAD GROUND ROD, MINIMUM 30" BELOW GRADE, AT MINIMUM 10'-0" O.C. (HARGER #5810).
⊠	CADWELD INSPECTION WELL (SEE DETAIL 3/E-2).
—	#2 AWG TINNED SOLID BARE COPPER WIRE, MINIMUM 30" BELOW GRADE, OR 6" BELOW LOCAL FROST LINE.
■	CADWELD/EXOTHERMIC WELD CONNECTION.
●	MECHANICAL CONNECTION.

KEYED NOTES:

1. (E) 400' HIGH GUYED TOWER
2. NEW 11'-8" x 30'-0" EQUIPMENT SHELTER.
3. PROVIDE #2 BARE SOLID TINNED COPPER CONDUCTOR LOCATED 30" BELOW FINISH GRADE FOR EXTERIOR GROUND RING AT EQUIPMENT SHELTER.
4. PROVIDE 3/4" DIAMETER x 10'-0" LONG COPPER CLAD GROUND ROD, MINIMUM 30" BELOW GRADE, AT MINIMUM 10'-0" O.C.
5. GROUND INSPECTION AND TEST WELL. SEE DETAIL FOR CONSTRUCTION REQUIREMENTS. MIN (1) ONE PER GROUND RING.
6. PROVIDE #2 BARE SOLID TINNED COPPER CONDUCTOR FROM MECHANICAL CONNECTION AT ELECTRICAL METER TO EXOTHERMIC WELD CONNECTION AT NEW GROUND ROD AND NEW EXTERIOR GROUND RING.
7. PROVIDE #2 BARE SOLID TINNED COPPER CONDUCTOR FROM EXOTHERMIC WELD CONNECTION AT NEW EXTERNAL GROUND RING TO EXOTHERMIC WELD CONNECTION AT WAVEGUIDE BRIDGE PIPE SUPPORT. PROVIDE GROUND CONNECTION AT EACH PIPE SUPPORT.
8. NEW COLLECTION GROUND BAR MOUNTED AT ANTENNA LEVEL OF TOWER. PROVIDE (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS TO MECHANICAL CONNECTION AT MASTER GROUND BAR AT BASE OF TOWER.
9. NEW MASTER GROUND BAR MOUNTED AT BASE OF TOWER. PROVIDE (2) #2 BARE SOLID TINNED COPPER CONDUCTORS TO EXOTHERMIC WELD CONNECTION AT NEW EXTERIOR GROUND RING.
10. PROVIDE (2) #2 BARE SOLID TINNED COPPER CONDUCTORS FROM EXOTHERMIC WELD CONNECTION AT TOWER GROUND RING TO EXOTHERMIC WELD CONNECTION AT EQUIPMENT SHELTER GROUND RING. PHYSICALLY SEPARATE AS MUCH AS PRACTICAL.
11. GPS GROUNDING. #2 BARE SOLID TINNED COPPER CONDUCTOR FROM EXOTHERMIC WELD CONNECTION AT GROUND RING TO EXOTHERMIC WELD CONNECTION AT GPS ANTENNAS.
12. FUEL TANK GROUNDING. #2 BARE SOLID TINNED COPPER CONDUCTOR FROM EXOTHERMIC WELD CONNECTION AT EXISTING GROUND RING TO MECHANICAL CONNECTION AT FUEL TANK GROUND LUG.
13. NEW EXTERNAL GROUND BAR MOUNTED BELOW ENTRY PANEL. PROVIDE (2) #2 BARE SOLID TINNED COPPER CONDUCTOR TO EXOTHERMIC WELD CONNECTION AT NEW SHELTER GROUND RING.
14. PIPE BOLLARD GROUNDING. #2 BARE SOLID TINNED COPPER CONDUCTOR FROM EXOTHERMIC WELD CONNECTION AT EXISTING GROUND RING TO EXOTHERMIC WELD CONNECTION AT PIPE BOLLARD, TYP.
15. CHAIN LINK FENCE GROUNDING. #2 AWG TINNED SOLID BARE COPPER CONDUCTORS FROM EXOTHERMIC WELD CONNECTION AT NEW OR EXISTING EXTERIOR GROUND RING TO EXOTHERMIC WELD CONNECTION AT NEW FENCE POST AND MECHANICAL CONNECTION TO NEW FENCE GATE. PROVIDE CONNECTION AT EACH FENCE CORNER POST.

1 SITE GROUNDING PLAN

SCALE: 3/8" = 1'-0" (22x34), 3/16" = 1'-0" (11x17)



PSERN
PUGET SOUND EMERGENCY
RADIO NETWORK
Emergency • Capability • Connectivity

SUQUAMISH

(NEW BUILD)

22063 DEWBERRY RD. NE
INDIANOLA, WA 98342



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PROJECT MANAGER: EJC

PREPARED BY: LM

APPROVED BY: PH

08/23/16	ISSUED FOR PERMIT
06/23/16	ISSUED FOR REVIEW
06/17/16	ISSUED FOR REVIEW
05/28/16	ISSUED FOR REVIEW
05/24/16	ISSUED FOR REVIEW

PLAN REVIEWERS SIGNATURE

7727
REGISTERED
ARCHITECT
PAUL NIXON
STATE OF WASHINGTON
08/23/2016

SHEET NAME

GROUNDING
PLAN & NOTES

SHEET NUMBER

E-3



King County

PSERN

**PUGET SOUND EMERGENCY
RADIO NETWORK**
Connectivity • Capacity • Capability • Connectivity

SUQUAMISH

(NEW BUILD)

22063 DEWBERRY RD. NE
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PROJECT MANAGER: EJC

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APPROVED BY: PN

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05/26/16	ISSUED FOR REVIEW
05/24/16	ISSUED FOR REVIEW

PLAN REVIEWERS SIGNATURE

7727
**REGISTERED
ARCHITECT**
Paul Nixon
PAUL NIXON
STATE OF WASHINGTON
08/23/2016

SHEET NAME
**ANTENNA
GROUNDING
PLANS & NOTES**

SHEET NUMBER
E-4

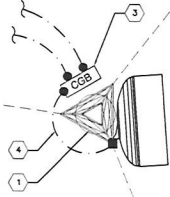
GENERAL NOTES:

1. ALL CADWELD CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COVERED WITH TWO (2) COATS OF SHERWIN WILLIAMS GALVANNE 83500K OR EQUAL.
2. ALL ELECTRICAL CADWELD AND MECHANICAL GROUND CONNECTIONS WILL HAVE NON-OXIDATION COMPOUND APPLIED TO CONNECTION.
3. ALL GROUNDING MATERIALS AND CADWELD WOLDS, SHOTS, ETC. SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED.
4. THE ELECTRICAL CONTRACTOR SHALL FOLLOW GROUNDING SYSTEM INSTALL AND TESTING PROCEDURES AS DESCRIBED IN THE GENERAL ELECTRICAL PROVISIONS.
5. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
6. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
7. OBSERVE NEC AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
8. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 5 OHMS.
9. WORK TO COMPLY WITH RS6 STANDARDS FOR GROUNDING.

LEGEND	
ITEM	DESCRIPTION
—	#2 AWG TINNED SOLID BARE COPPER WIRE.
—	CADWELD/EXOTHERMIC WELD CONNECTION.
—	MECHANICAL CONNECTION.

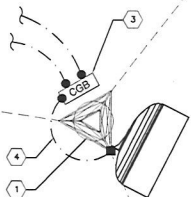
KEYED NOTES:

- 1 EXISTING 400' HIGH GUYED TOWER.
- 2 NEW MASTER GROUND BAR MOUNTED AT BASE OF TOWER. PROVIDE (2) #2 BARE SOLID TINNED COPPER CONDUCTORS TO MECHANICAL CONNECTION AT EXISTING MASTER GROUND BAR OR EXOTHERMIC WELD CONNECTION AT EXISTING TOWER GROUND RING.
- 3 NEW COLLECTION GROUND BAR MOUNTED AT ANTENNA LEVEL OF TOWER. PROVIDE (2) #2 BARE SOLID TINNED COPPER CONDUCTORS TO MECHANICAL CONNECTION AT NEW MASTER GROUND BAR AT BASE OF TOWER.
- 4 MICROWAVE ANTENNA GROUNDING. #2 BARE SOLID TINNED COPPER CONDUCTOR FROM MECHANICAL CONNECTION AT COLLECTION GROUND BAR TO EXOTHERMIC WELD CONNECTION AT MICROWAVE ANTENNA, TYP.
- 5 ENCLOSED DIPOLE ARRAY ANTENNA GROUNDING. #2 BARE SOLID TINNED COPPER CONDUCTOR FROM MECHANICAL CONNECTION AT COLLECTION GROUND BAR TO EXOTHERMIC WELD CONNECTION AT ENCLOSED DIPOLE ARRAY ANTENNA, TYP.



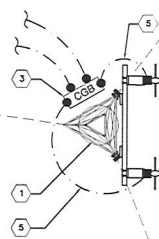
1 ANTENNA PLAN @ 288'-0"

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)



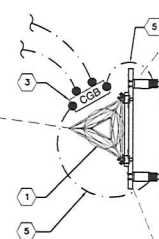
2 ANTENNA PLAN @ 240'-0"

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)



3 ANTENNA PLAN @ 140'-0"

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)



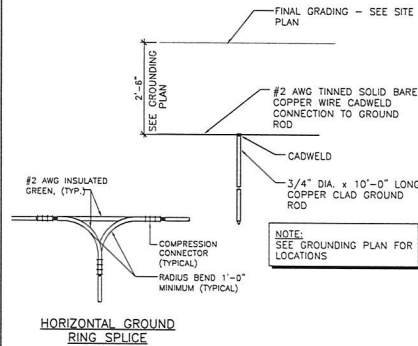
4 ANTENNA PLAN @ 120'-0"

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS AND ALL APPLICABLE LOCAL CODES.
2. ALL GROUNDING SHALL CONFORM TO R56 STANDARDS.
3. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
5. PREFABRICATED SHELTER WILL BE PROVIDED WITH INTERNAL WIRING, CABLE TRAYS, ETC. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY SHELTER MANUFACTURER.
6. ALL EXOTHERMIC CONNECTIONS TO THE GROUND RODS SHALL START AT THE TOP & HAVE A VERTICAL SEPARATION OF 6" FOR EVERY ADDITIONAL CONNECTION.
7. GROUND RODS SHALL BE STAINLESS STEEL OR COPPER CLAD STEEL, 3/4"Ø 10'-FT. LONG, AND SHALL BE DRIVEN VERTICALLY WITH THEIR TOPS 30" BELOW FINAL GRADE OR 6" BELOW FROST LINE FOR MAXIMUM DEPTH.
8. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
9. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
10. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 5 OHMS.
11. ENSURE ALL MECHANICAL CONNECTORS ARE TORQUED TO THE MANUFACTURER'S SPECIFIED VALUES.
12. GROUND BARS SHALL NOT BE FIELD MODIFIED.
13. USE PANI SCHEME FOR LOADING ON MASTER GROUND BAR AS DISCUSSED IN NTD 119, 33 & 36.

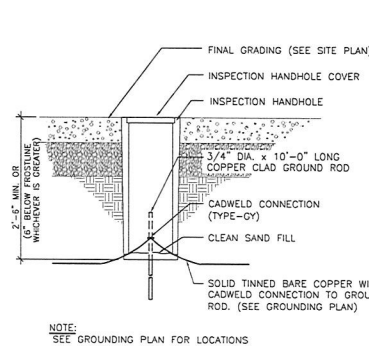
GENERAL NOTES

NOT TO SCALE



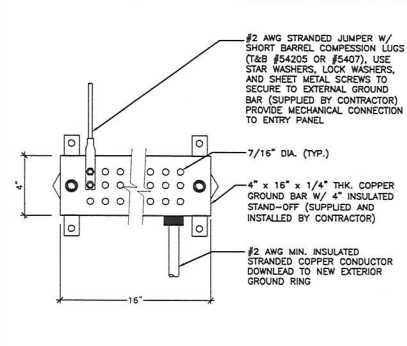
GROUND RING DETAIL

NOT TO SCALE



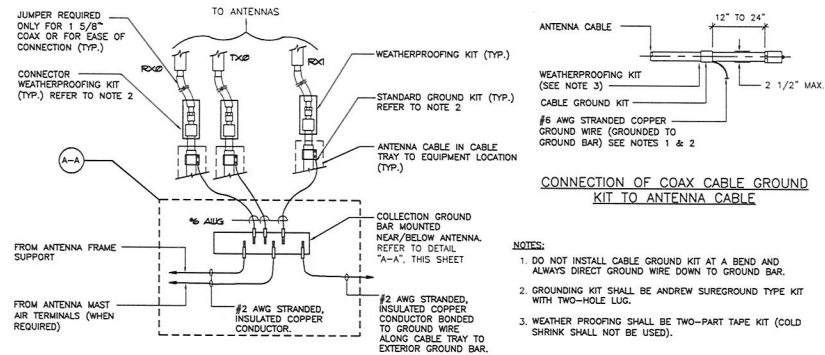
CADWELD INSPECTION WELL

NOT TO SCALE



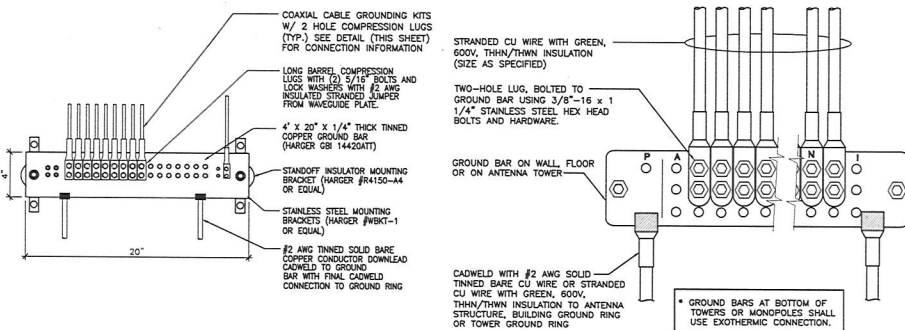
EXTERNAL GROUND BAR

NOT TO SCALE



COAXIAL CABLE GROUND WIRE TO COLLECTION GROUND BAR CONNECTION

NOT TO SCALE



MASTER GROUND BAR DETAILS

NOT TO SCALE

PANI SCHEME SPECIFICATIONS:

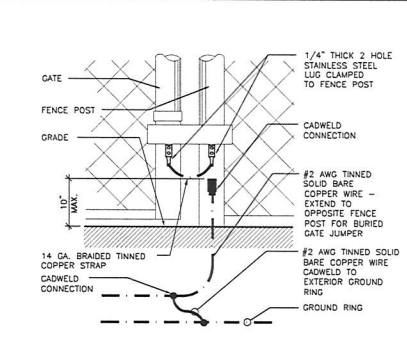
PRODUCER (P)
CONNECTS TO WIRELESS EQUIPMENT CABINETS, CABLE ENTRANCE GROUND BAR (CEGB), MAIN DISTRIBUTION FRAME GROUND BAR (MDFB), AND STANDBY ENGINE-GENERATOR SET FRAME AND OTHER NOISE PRODUCING EQUIPMENT

ABSORBER (A)
CONNECTS TO THE EARTH ELECTRODE SYSTEM INCLUDING CENTRAL OFFICE GROUND GRID, BUILDING STRUCTURAL GROUND, METALLIC WATER PIPE SYSTEM, ANTENNA SUPPORTING STRUCTURE GROUND SYSTEM, AND ELECTRICAL SERVICE ENTRANCE GROUND

NON-ISOLATED (N)
CONNECTS TO EQUIPMENT NOT IN AN ISOLATED GROUND ZONE (IGZ) SUCH AS CBN EQUIPMENT FRAME GROUNDS AND DC GROUND CONDUCTORS FOR DC POWER SYSTEMS THAT SERVE CBN OR BOTH CBN AND IBN EQUIPMENT

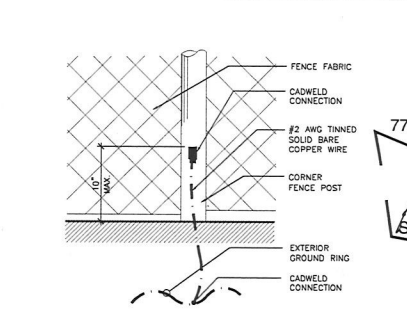
ISOLATED (I)
CONNECTS TO THE SINGLE POINT CONNECTION BAR (SPCB), FOR IBN EQUIPMENT

- NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
 2. WEATHER PROOFING SHALL BE ANDREWS, TYPE & PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER



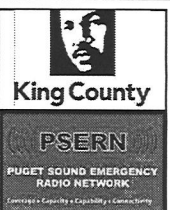
FENCE AND GATE GROUNDING

NOT TO SCALE



FENCE GROUNDING DETAIL

NOT TO SCALE



SUQUAMISH

(NEW BUILD)

22083 DEWBERRY RD. NE
INDIANOLA, WA 98342



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SEATTLE, WA 98108
PHONE: (206) 490-3626
WWW.ODELA.COM



19401 40TH AVE. W. SUITE 304
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WWW.CAMPASSOCIATES.COM

PROJECT MANAGER: EJC

PREPARED BY: LM

APPROVED BY: PH

08/23/16	ISSUED FOR PERMIT
06/23/16	ISSUED FOR REVIEW
06/17/16	ISSUED FOR REVIEW
05/28/16	ISSUED FOR REVIEW
05/24/16	ISSUED FOR REVIEW

PLAN REVIEWERS SIGNATURE



PAUL NIXON
ARCHITECT
STATE OF WASHINGTON
08/23/2016

SHEET NAME
GROUNDING
DETAILS &
NOTES

SHEET NUMBER
E-5