



## Community Development Department

Building | Planning | Code Enforcement

P.O. Box 9, 230 Davidson Avenue

(360) 225-7299, [www.ci.woodland.wa.us](http://www.ci.woodland.wa.us)

# NOTICE OF DECISION

T-Mobile - Equipment

<b>Land Use Application Nos.:</b>	SPR 21-005 (Site Plan Review – Type 1)
<b>Applicant:</b>	SBA 2012 TC Assets, LLC 15349 SW Mallard DR, Unit 102 Beaverton, OR 9707
<b>Property Owner:</b>	Columbia River Carbonates 300 N. Pekin Road Woodland, WA 98674
<b>Site Location:</b>	295 North Pekin Road Woodland, WA 98674
<b>Parcel &amp; Size:</b>	507350118, 9.95
<b>Zoning Designation:</b>	Heavy Industrial, I-2
<b>Date Application Received:</b>	May 26, 2021
<b>Notice of Application &amp; Likely DNS issued:</b>	N/A
<b>Comment Period &amp; SEPA Appeal Period Ended:</b>	N/A
<b>Notice of Decision Issued:</b>	July 12, 2021
<b>DRC Decision:</b>	Approve with Conditions

## I. DESCRIPTION OF PROPOSAL

T-Mobile is proposing to install a diesel generator on a new 4' x 10' concrete pad with ice canopy within the existing fenced equipment compound.

## II. LOCATION OF PROPOSED DEVELOPMENT

The site is located at 295 North Pekin Road in Woodland, WA.

### III. REVIEW AUTHORITY

Per Woodland Municipal Code (WMC) 19.08.010, department staff as assigned by the director or the Development Review Committee shall have the authority to review and approve, deny, modify, or conditionally approve, land use or environmental permits or licenses required from the city for a project action, including, but not limited to, site plan review, boundary line adjustments, administrative temporary and conditional use permits, building permits and other construction permits, SEPA procedural and substantive determinations, short plats, binding site plans, minor variances, minor modifications to approved administrative conditional use permits and conditional use permits, phasing and expiration extensions of subdivision preliminary plats, sign permits, certificates of occupancy, critical area permits, floodplain development permits, and shoreline exemptions, and to provide interpretations of codes and regulations applicable to such projects.

Per WMC 19.08.030, site plan reviews shall be approved, approved with conditions, or denied by the Development Review Committee and decisions shall be issued by the Community Development Department.

Per WMC 17.71.195 (F), wireless communication facility applications are subject to WMC 19.10 (site plan review) and WMC 19.08 (approval, review and appeal authority).

### IV. FINDINGS

#### Permitted Uses | WMC 17.46.030

**Finding 1:** Wireless Communication Facilities are a permitted use if the proposal is consistent with WMC 17.71.195.

**Conclusion:** As conditioned, the project can comply with this standard.

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#### Special Uses – Wireless Communication Facilities | WMC 17.71.195

**Finding 2:** Per WMC 17.71.195 (A)(f)(vi), the addition of generators and ground equipment that were not previously approved are not exempt activities. Per WMC 17.71.195 (F), a site plan 1 application is required.

**Finding 3:** No changes are proposed to the existing tower's height. The existing tower meets the height standards per WMC 17.71.195 (E)(1).

**Finding 4:** Setbacks for auxiliary support equipment shall be those of the underlying zoning district per WMC 17.71.195 (E)(2)(b).

**Finding 5:** Per WMC 17.46.070, setbacks for the heavy industrial zoning district (I-2) are:

- Front: 30 ft.
- Side: 10 ft. If
- Rear: 10 ft.

**Finding 6:** The proposal for new equipment meets the setback requirements per WMC 17.71.195 (E)(2)(b) and WMC 17.46.070.

**Finding 7:** A landscaping and screening plan shall be submitted with all new support tower applications.

**Finding 8:** A new support tower is not proposed. A landscaping plan is not required.

**Finding 9:** The existing tower is screened by trees along the property line and by landscaping around the middle tower. A condition is added to include a note on the site plan that changes to the existing landscaping are not allowed. *See Condition #1.*

**Finding 10:** Per WMC 17.71.195 (D)(4), Wireless communication facilities shall not generate noise levels in excess of maximum standards set forth in Chapter 173-60 WAC. Generators may be operated only for emergency purposes. *See condition #2.*

**Conclusion:** As conditioned, the proposal can comply with these requirements.

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#### **Development Impact Fees – Fire | WMC 3.41**

**Finding 11:** The City of Woodland assesses Fire Impact Fees on new development. The Fire Impact Fee is \$0.51 per square foot of building space. No fire impact fees are due for this proposal.

**Conclusion:** The project can comply with this standard.

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#### **Development Impact Fees – Transportation | WMC 3.42**

**Finding 12:** Transportation Impact Fees (TIF) will not be assessed to this application.

**Conclusion:** The project can comply with this standard.

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## Streets and Sidewalks | WMC 17.44.210 & WMC 12

**Finding 13:** Street and frontage improvements are not applicable to this proposal.

**Conclusion:** The proposal can comply with the development standards.

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## Water and Sewage | WMC 13

- **Finding 14:** This proposal does not include service connections for water and sewer. Water and sewer connection fees will not be required.

**Conclusion:** The proposal can comply with the development standards.

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## Erosion Control Ordinance | WMC 15.10

**Finding 15:** Applicants are required to install and maintain erosion control measures per the Best Management Practices as outlined in the current version of the Stormwater Management Manual for Western Washington during site excavations and grading. An NPDES permit from the Department of Ecology is required where more than one acre is being disturbed.

**Finding 16:** A preliminary erosion control plan was not included as part of the site plan submittal. It is anticipated the plan may at minimum require use of a construction entrance and sediment fencing in accordance with City standards. The disturbed area shown in the plan is less than one acre, thus coverage under the statewide NPDES permit will not be required. A condition of approval is added to meet all erosion control requirements of WMC 15.10 and follow the Woodland Design Standards for the erosion control plan. *See Condition #3.*

**Conclusion:** As conditioned, the project can comply with this standard.

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## Stormwater Management | WMC 15.12

**Finding 17:** No changes to the existing stormwater management on the site are anticipated as part of the proposal.

**Conclusion:** The proposal can comply with these standards.

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## Building and Yard maintenance | WMC 17.46.160

**Finding 18:** All buildings and yards shall be maintained in a neat and orderly manner. Landscaping shall be maintained in a healthy, presentable state. *See Condition #4.*

**Finding 19:** All structures, buildings, fences, and walls shall be kept free of rust, corrosion, peeling paint, and other surface deterioration. *See Condition #5.*

**Conclusion:** As conditioned, the proposal can comply with these standards.

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## Performance Standards | WMC 17.48

**Finding 20:** The requirements of this section cover hazards and nuisances including sound level, vibration, air emissions, smoke, dust, odors, industrial wastes, fire hazards, heat, glare, radioactivity and radio transmitters. The applicant will be responsible for ensuring that their operation is complying with all performance standards. *See Condition #6.*

**Conclusion:** As conditioned, the proposal can comply with this standard.

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## Fire Safety

All buildings must be constructed in accordance with WA Building and Fire Codes.

**Finding 21:** Obtain approval from Clark-Cowlitz Fire Rescue for site plan and building plans. *See Condition #7.*

**Conclusion:** As conditioned, the proposal can comply with Fire Code.

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## Building | WMC 14

**Finding 22:** Stamped structural analysis for the concrete slab as well as the anchoring of the diesel generator and fuel tank to the concrete slab (to meet seismic requirements) is required. *See Condition #8.*

**Finding 23:** With the building permit application, clarify whether the fuel tank supplying the 48 kW. Diesel generator is integral to the generator. *See Condition #9.*

**Finding 24:** Include a stamped structural analysis and spec sheets for the diesel generator and fuel tank along with stamped drawings. *See Condition #10.*

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## **Preliminary Site Plan Approval | WMC 19.10.070**

**Finding 25:** The applicant submitted a preliminary site plan. Per WMC 19.10.070, the applicant is required to submit for final civil plan approval and submit a final site plan application. *See Condition #11.*

**Conclusion:** The preliminary site plan can be approved with conditions.

## **V. DECISION**

Per WMC 19.08.030, the above application for the preliminary Site Plan Review has been **APPROVED WITH CONDITIONS** by the City of Woodland’s Development Review Committee (DRC) based on the criteria and standards outlined in Woodland Municipal Code (WMC). *See Section VI for conditions of approval.*

## **VI. CONDITIONS OF APPROVAL**

1. Include a note on the site plan that changes to the existing landscaping are not allowed.
2. Include a note on the site plan that generators may be operated only for emergency purposes.
3. Meet all erosion control requirements of WMC 15.10 and follow the Woodland Design Standards for the erosion control plan.
4. All buildings and yards shall be maintained in a neat and orderly manner. Landscaping shall be maintained in a healthy, presentable state per WMC 17.44.160.
5. All structures, buildings, fences, and walls shall be kept free of rust, corrosion, peeling paint, and other surface deterioration per WMC 17.44.160.
6. The applicant will be responsible for ensuring that their operation is complying with all performance standards of WMC 17.48 (hazards and nuisances including sound level, vibration, air emissions, smoke, dust, odors, industrial wastes, fire hazards, heat, glare,
7. Apply for site plan and building review through Clark-Cowlitz Fire Rescue (CCFR) and comply with all CCFR requirements and conditions of approval. Apply online: [www.clarkfr.org](http://www.clarkfr.org).
8. Include stamped structural analysis for the concrete slab as well as the anchoring of the diesel generator and fuel tank to the concrete slab (to meet seismic requirements) with the building permit application.

9. With the building permit application, clarify whether the fuel tank supplying the 48 kW. Diesel generator is integral to the generator.
10. For the building permit application, include a stamped structural analysis and specification sheets for the diesel generator and fuel tank along with stamped drawings.
11. Per WMC 19.10.070, the applicant is required to submit for final civil plan approval and submit a final site plan application.

## VII. APPEAL PROCEDURE

As per WMC 19.08.020 and 19.08.030, this Notice of Decision may be appealed to the Hearing Examiner within 14 days of the date this decision is issued. The appeal with grounds for appeal in writing shall be submitted to the Community Development Department **by 5:00 p.m., July 26, 2020.**

**Staff Contact:** Melissa Johnston, Associate Planner  
City of Woodland  
P.O. Box 9  
230 Davidson Ave  
Woodland, WA 98661  
[johnstonm@ci.woodland.wa.us](mailto:johnstonm@ci.woodland.wa.us)

## VIII. NEXT STEPS

If there is no appeal to the decision, the applicant may move forward to develop the site.

- Submit final civil plans addressing the conditions above. Include Woodland standard details for water, sewer, erosion control, etc. as required to support the civil design when you submit drawings for final civil approval.
  - a. The details can be found at [www.ci.woodland.wa.us/departments/public-works/standards.php](http://www.ci.woodland.wa.us/departments/public-works/standards.php).
  - b. Submit final civil plans to: [https://woodlandwa.seamlessdocs.com/f/civil\\_review](https://woodlandwa.seamlessdocs.com/f/civil_review)
- Once civil plans are approved:
  - a. Upload approved plans to Clark County Fire and Rescue for electronic signature: [www.clarkfr.org](http://www.clarkfr.org). Print the plans once signed.
  - b. Contact Public Works to arrange for signature: 360-225-7999. Then, bring plans signed by Clark County Fire and Rescue to Public Works for signature.
  - c. Provide a .pdf to Public Works of signed plan set.
- Submit building, grading, and sign permits online: [www.ci.woodland.wa.us/documents/](http://www.ci.woodland.wa.us/documents/)
  - a. Contact Janice Fisher, Permit Technician, for assistance: 360-225-7299.

- b. Pay any outstanding professional consulting services per Woodland Municipal Code, Ordinance 1097.
- Schedule a pre-construction meeting before beginning any construction activities. Contact Public Works at 360-225-7999 to schedule.
- Install all required landscaping and irrigation prior to applying for final occupancy.
- Submit one full-sized and one copy of reduced size (11" x 17") as-built drawings. In addition, submit a CD/thumb drive containing the as-built drawings in AutoCAD and pdf formats prior to applying for final occupancy.

**Date:** 7/12/2020

**Signature:**  \_\_\_\_\_  
*Melissa Johnston, Associate Planner*

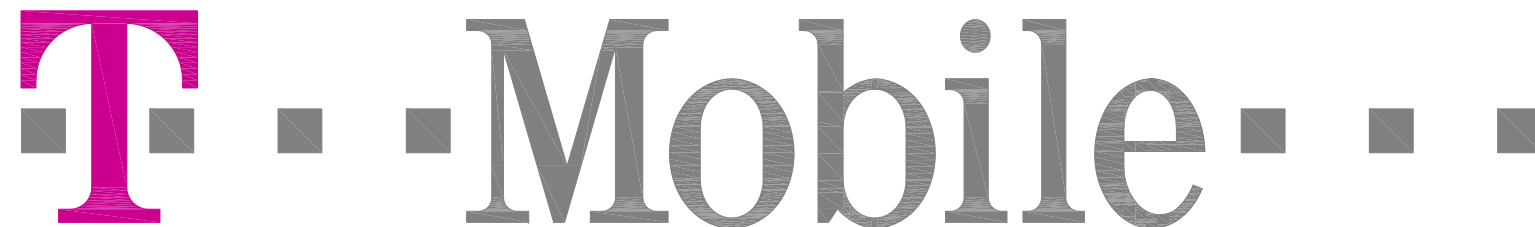
cc: Applicant  
Parties of Record  
File  
Website  
Mayor  
City Administrator

**ATTACHMENTS**

- A. Site Plan



**Attachment A**  
Site Plan



T-MOBILE SITE ID: PO01625E

PROJECT: GENERATOR ADD

SITE CONFIGURATION: 56790EZ\_SR

SITE NAME: WOODLAND DOWNTOWN

SBA SITE ID: WA48195-A

SITE TYPE: MONOPOLE

SITE ADDRESS: 271 NORTH PEKIN ROAD,, WOODLAND, WA 98674



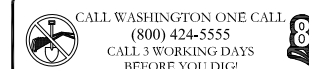
8960 ALDERWOOD ROAD  
PORTLAND, OR 97220



959 SOUTH COAST DR, SUITE 200  
COSTA MESA, CA 92626

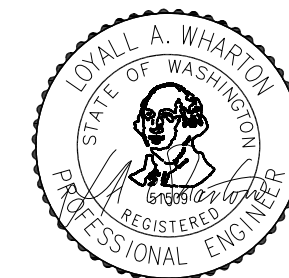


1387 CALLE AVANZADO  
SAN CLEMENTE CA 92673 (949) 391-6824



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CALL 3 WORKING DAYS  
BEFORE YOU DIG!

REV	DATE	DESCRIPTION	BY
B	05/17/2017	100% CD'S FOR SUBMITTAL	MP
A	02/22/2021	90% CD'S FOR REVIEW	DGM



Expiration Date: 10-14-2022  
DATE SIGNED: 05/24/2021

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

T-MOBILE SITE ID: PO01625E  
SITE NAME:  
WOODLAND DOWNTOWN  
ADDRESS: 271 NORTH PEKIN ROAD,  
WOODLAND, WA 98674  
SITE TYPE: MONOPOLE  
SBA SITE ID: WA48195-A

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1.0

**SITE INFORMATION**

PROPERTY OWNER: COLUMBIA RIVER CARBONATES  
P.O. BOX 2350, 300 N PEKIN ROAD  
WOODLAND, WA 98674

APPLICANT: T-MOBILE WEST CORPORATION  
ADDRESS: 830 NE HOLLADAY ST.  
PORTLAND, OR 97232

LAT/LONG TYPE: NAD-83

LATITUDE: 45.905721°

LONGITUDE: -122.760214°

ZONING JURISDICTION: CITY OF WOODLAND

ZONING CLASSIFICATION: I-2 HEAVY INDUSTRIAL

CURRENT USE: UNMANNED TELECOMMUNICATIONS FACILITY

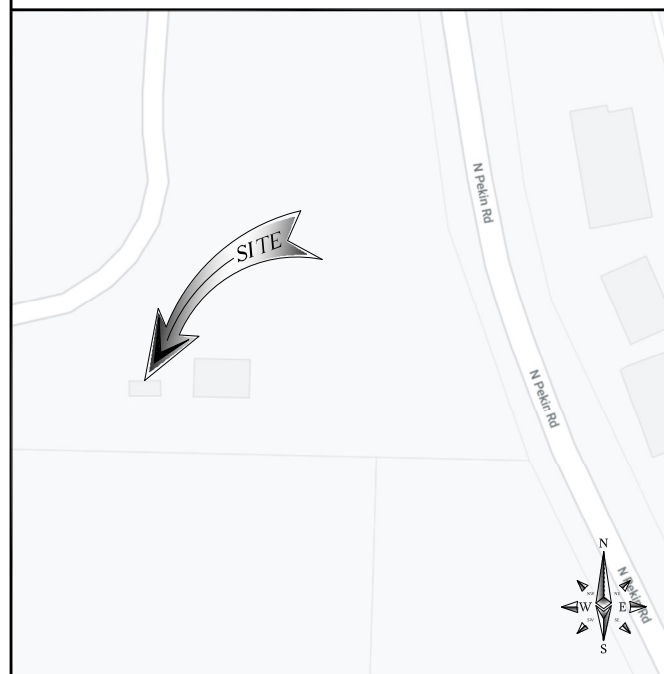
ASSESSOR'S PARCEL NO.: 507350118

PROPOSED USE: UNMANNED TELECOMMUNICATIONS FACILITY

TYPE OF CONSTRUCTION: V-B

OCCUPANCY GROUP: U

**VICINITY MAP**



**PROJECT DESCRIPTION**

T-MOBILE PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- INSTALL (1) GENERAC STAND-BY DIESEL GENERATOR WITH BASE FUEL
- INSTALL (1) 200A ATS/CAMLOCK WITHIN EQUIPMENT ENCLOSURE
- INSTALL (1) NEW 4'X10' CONCRETE PAD WITH ICE CANOPY

**DRAWING INDEX**

SHEET NO:	SHEET TITLE
T-1.0	TITLE SHEET
GN-1.0	GENERAL NOTES
A-1.0	SITE PLAN & ENLARGED SITE PLAN
A-2.0	EQUIPMENT LAYOUT
A-3.0	ELEVATIONS
D-1.0	DETAILS
D-2.0	DETAILS
G-1.0	GROUNDING DETAILS

**PROJECT TEAM**

CLIENT REPRESENTATIVE:  
T-MOBILE WEST CORPORATION  
830 NE HOLLADAY ST.  
PORTLAND, OR 97232

CONSTRUCTION MANAGER:  
T-MOBILE WEST CORPORATION  
830 NE HOLLADAY ST.  
PORTLAND, OR 97232

SITE DEVELOPMENT SPECIALIST:  
JACOB FINNEY, TOM McAULIFFE  
SBA COMMUNICATIONS  
959 SOUTH COAST DR, SUITE 200  
COSTA MESA, CA 92626

RF ENGINEER:  
T-MOBILE WEST CORPORATION  
830 NE HOLLADAY ST.  
PORTLAND, OR 97232

A&E FIRM:  
M SQUARED WIRELESS:  
1387 CALLE AVANZADO  
SAN CLEMENTE, CA 92673  
PH: (949) 391-6824

**GENERAL NOTES**

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEW.

**ENGINEERING**

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- 2012 INTERNATIONAL BUILDING CODE
- 2012 INTERNATIONAL ENERGY CONSERVATION CODE
- 2012 INTERNATIONAL FIRE CODE
- 2012 INTERNATIONAL FUEL GAS CODE
- 2012 INTERNATIONAL MECHANICAL CODE
- 2012 UNIFORM PLUMBING CODE
- 2012 INTERNATIONAL RESIDENTIAL CODE
- 2009 INTERNATIONAL WILDLAND-URBAN CODE
- CITY/COUNTY ORDINANCES
- LOCAL BUILDING CODE

**APPROVALS**

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES OR MODIFICATIONS.

T-MOBILE RF ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

T-MOBILE OPERATIONS: \_\_\_\_\_ DATE: \_\_\_\_\_

SITE ACQUISITION: \_\_\_\_\_ DATE: \_\_\_\_\_

CONSTRUCTION MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_

PROPERTY OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

ZONING: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_

**DO NOT SCALE DRAWINGS**

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME. NOTE: IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE.

**DRIVING DIRECTIONS**

- DIRECTIONS FROM 830 NE HOLLADAY ST:
1. HEAD NORTH TOWARD NE ALDERWOOD RD
  2. TURN RIGHT TOWARD NE ALDERWOOD RD
  3. TURN RIGHT ONTO NE ALDERWOOD RD
  4. TURN LEFT ONTO NE HOLMAN ST
  5. TURN LEFT ONTO NE AIRPORT WAY
  6. TURN RIGHT TO MERGE ONTO I-205 N TOWARD SEATTLE
  7. MERGE ONTO I-205 N
  8. TAKE EXIT 21 FOR WA-503 E TOWARD WOODLAND/COUGAR
  9. TURN LEFT ONTO WA-503 N/LEWIS RIVER RD
  10. SLIGHT LEFT ONTO GOERIG ST
  11. TURN RIGHT ONTO DAVIDSON AVENUE
  12. TURN RIGHT ONTO N PEKIN RD
  13. TURN LEFT - DESTINATION WILL BE ON THE LEFT

**GENERAL CONSTRUCTION NOTES:**

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:  
GENERAL CONTRACTOR - GENERAL CONTRACTOR  
SUBCONTRACTOR - CONTRACTOR (CONSTRUCTION)  
OWNER - T-MOBILE
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND T-MOBILE PROJECT SPECIFICATIONS.
- GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LT-MOBILE, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOWN DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE SPACE FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
- WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY (E) CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO THE BEGINNING CONSTRUCTION.
- SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE SUBCONTRACTOR SHALL PROTECT (E) IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDINGS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- ALL (E) ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, D) TRENCING & EXCAVATION.
- ALL (E) INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ARCHITECT/ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE (E) SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDINGS. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY T-MOBILE TECHNICIANS.
- NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION T-MOBILE GROUNDING STANDARD TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES AND TECHNICAL SPECIFICATION FOR FACILITY GROUNDING. IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- NO WHITE STROBIC LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
- ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- NO NOISE, SMOKE, DUST, OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DISREGARD THIS NOTE IF THIS SITE HAS A GENERATOR)
- NO ADDITIONAL PARKING TO BE PROPOSED. (E) ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
- NO LANDSCAPING IS PROPOSED AT THIS SITE, UNLESS NOTED OTHERWISE.

**ELECTRICAL NOTES:**

- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL (E) CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF HIS BID, FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:  
C - NATIONAL FIRE CODES  
A. UL - UNDERWRITERS LABORATORIES  
B. NEC - NATIONAL ELECTRICAL CODE  
C. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.  
D. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT  
E. SBC - STANDARD BUILDING CODE
- DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
- (E) SERVICES: CONTRACTOR SHALL NOT INTERRUPT (E) SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER. CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
- CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC.,. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY T-MOBILE.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
- ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS 'EXCAVATION, AND BACKFILLING.
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE (N) AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEEE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
- RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 - 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, 800 VOLT, COLOR CODED, USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- SERVICE: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.
- TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
- CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM".
- ALL BOLTS SHALL BE STAINLESS STEEL

**GROUNDING NOTES:**

- COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR, ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "T") WITH 1" HIGH LETTERS.
- ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE.
- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
- WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN (E) TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
- ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

**SITE WORK & DRAINAGE**

**PART 1 - GENERAL**

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

**1.1 REFERENCES:**

- DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
- ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

**1.2 INSPECTION AND TESTING:**

- FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR.
- ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

**1.3 SITE MAINTENANCE AND PROTECTION:**

- PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
- AVOID DAMAGE TO THE SITE AND TO (E) FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT (E) FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- KEEP SITE FREE OF ALL PONDING WATER.
- PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.
- PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- (E) UTILITIES: DO NOT INTERRUPT (E) UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

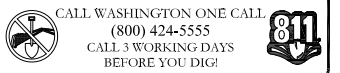
- PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

**ENVIRONMENTAL NOTES**

- ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
- CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
- CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
- NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
- CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
- SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
- CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
- RI P RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES



959 SOUTH COAST DR. SUITE 200 COSTA MESA, CA 92626



REV	DATE	DESCRIPTION	BY
B	05/17/2017	100% CD'S FOR SUBMITTAL	MP
A	02/22/2021	90% CD'S FOR REVIEW	DGM



Expiration Date: 10-14-2022 DATE SIGNED: 05/24/2021

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-MOBILE SITE ID: PO01625E**  
**SITE NAME:**  
**WOODLAND DOWNTOWN**  
**ADDRESS: 271 NORTH PEKIN ROAD,**  
**WOODLAND, WA 98674**  
**SITE TYPE: MONOPOLE**  
**SBA SITE ID: WA48195-A**

SHEET TITLE  
**GENERAL NOTES**

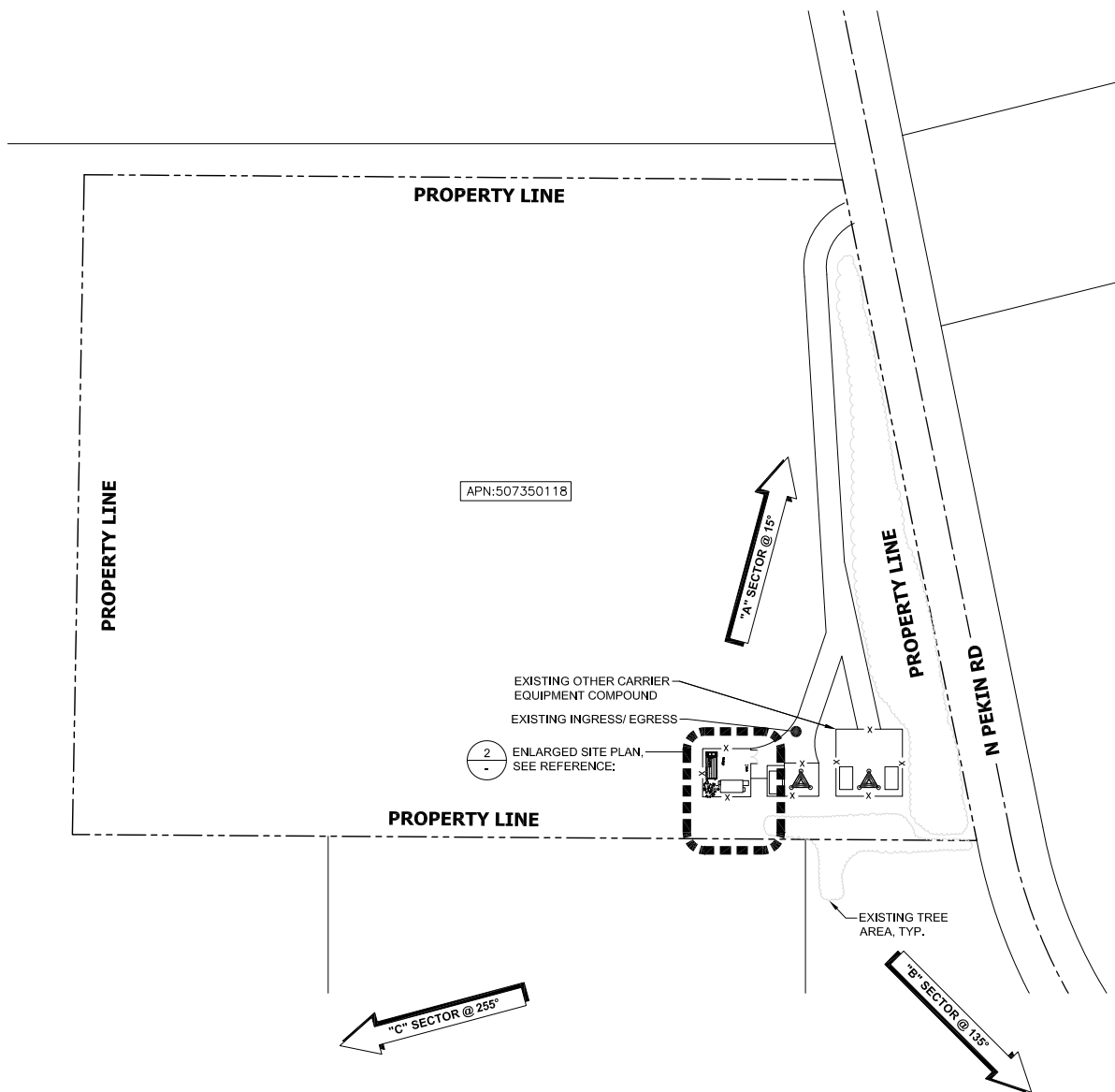
SHEET NUMBER  
**GN-1.0**

**NOTES:**

1. THE WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.
2. NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE NEW INSTALLATION.
3. THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, SETBACKS, AND EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION.

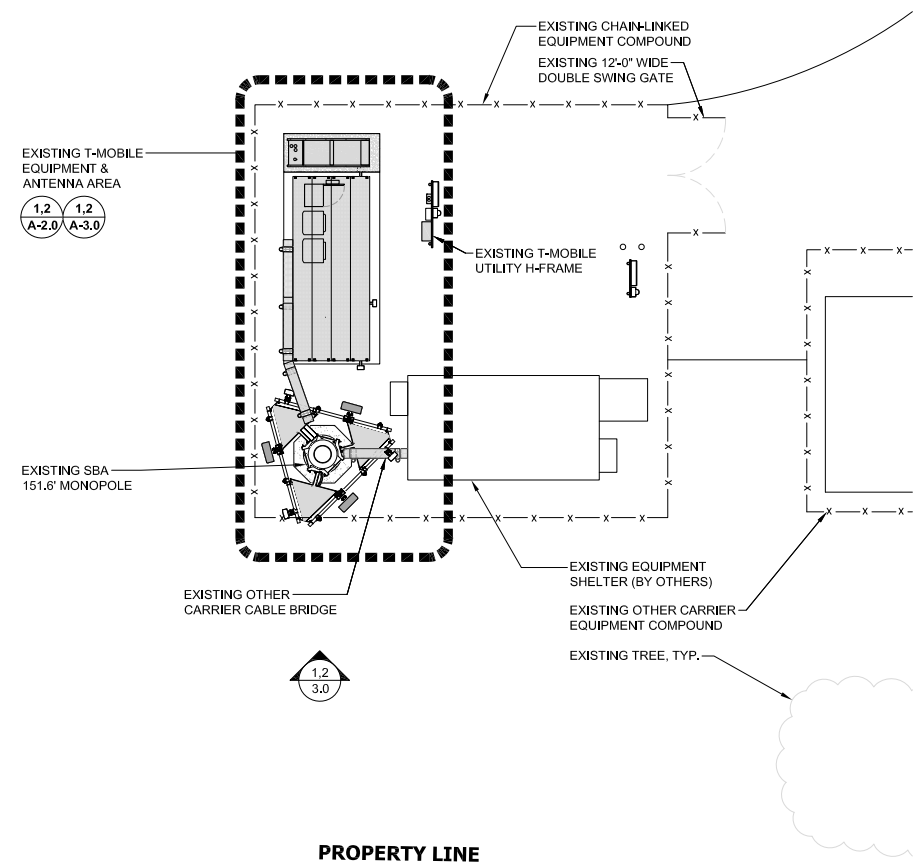
**DISCLAIMER:**

THIS SET OF DRAWINGS WAS PREPARED UTILIZING INFORMATION OBTAINED FROM PUBLIC DOCUMENTS MADE AVAILABLE ON JURISDICTION WEBSITE. M SQUARED WIRELESS CANNOT GUARANTEE THE ACCURACY OF THE DATA AND INFORMATION DEPICTED AND HEREBY EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE TRUTH, VALIDITY, INVALIDITY, ACCURACY, INACCURACY OF ANY SAID DATA AND INFORMATION. THE PARCEL LINES ON MAPS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT INTENDED TO BE USED AS A SURVEY PRODUCT. USER ACCEPTS RESPONSIBILITY FOR THE UNAUTHORIZED USE OR TRANSMISSION OF ANY SUCH DATA OR INFORMATION IN ITS ACTUAL OR ALTERED FORM.



24"x36" SCALE: 1" = 80'-0" 0" 40' 80' 160'  
11"x17" SCALE: 1" = 160'-0"

1



24"x36" SCALE: 1" = 10'-0" 0" 5' 10' 20'  
11"x17" SCALE: 1" = 20'-0"

2

**SITE PLAN**

**ENLARGED SITE PLAN**

**T-Mobile**  
8960 ALDERWOOD ROAD  
PORTLAND, OR 97220

**SBA**  
959 SOUTH COAST DR. SUITE 200  
COSTA MESA, CA 92626

**M SQUARED WIRELESS**  
1387 CALLE AVANZADO  
SAN CLEMENTE CA 92673 (949) 391-8924

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(800) 424-5555  
CALL 3 WORKING DAYS  
BEFORE YOU DIG!

REV	DATE	DESCRIPTION	BY
B	05/17/2017	100% CD'S FOR SUBMITTAL	MP
A	02/22/2021	90% CD'S FOR REVIEW	DGM

LOYAL A. WHARTON  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
Expiration Date: 10-14-2022  
DATE SIGNED: 05/24/2021

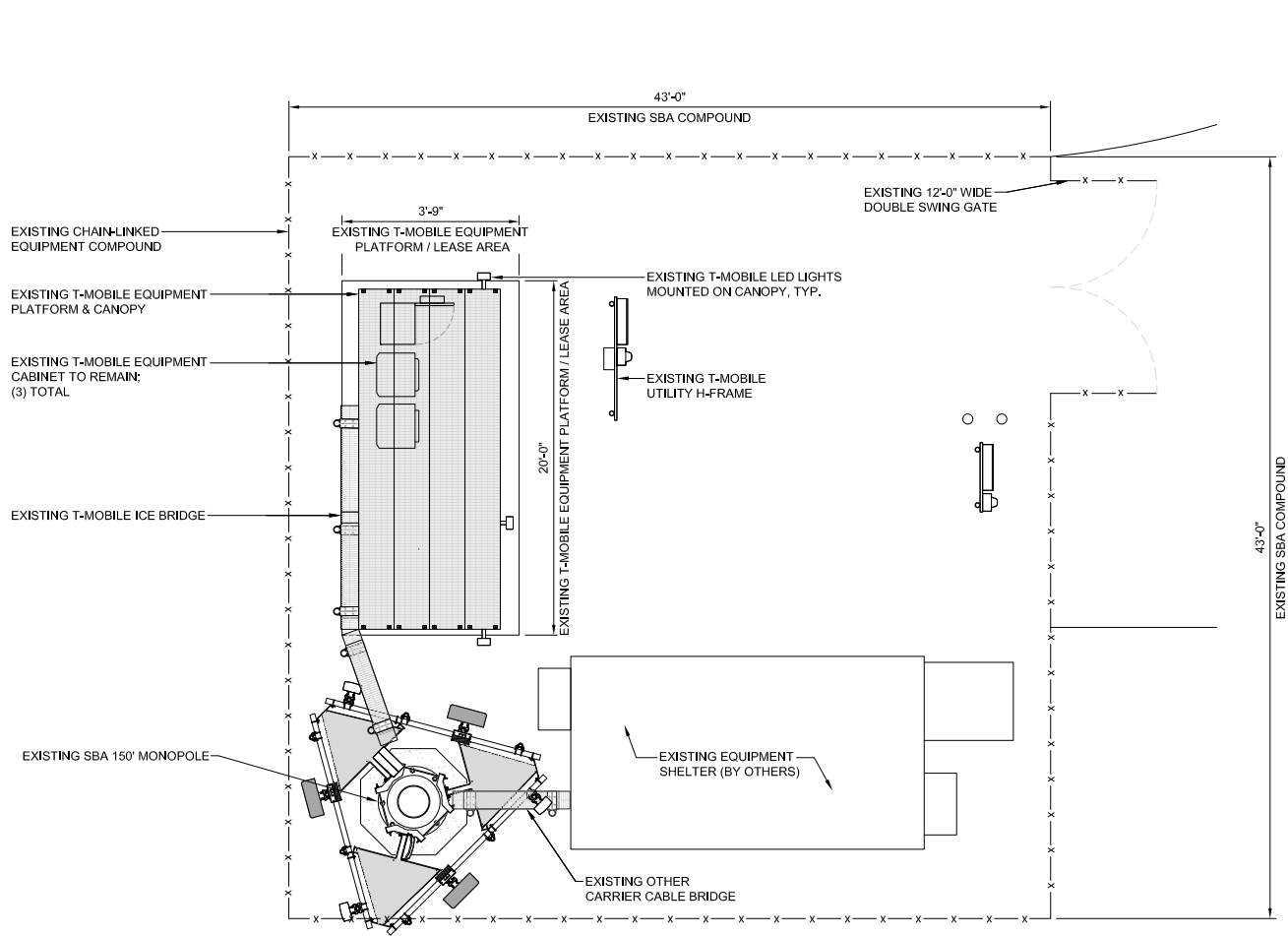
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**ADDRESS: 271 NORTH PEKIN ROAD,**  
WOODLAND, WA 98674  
**SITE TYPE: MONOPOLE**  
**SBA SITE ID: WA48195-A**

SHEET TITLE  
**OVERALL SITE PLAN**

SHEET NUMBER  
**A-1.0**

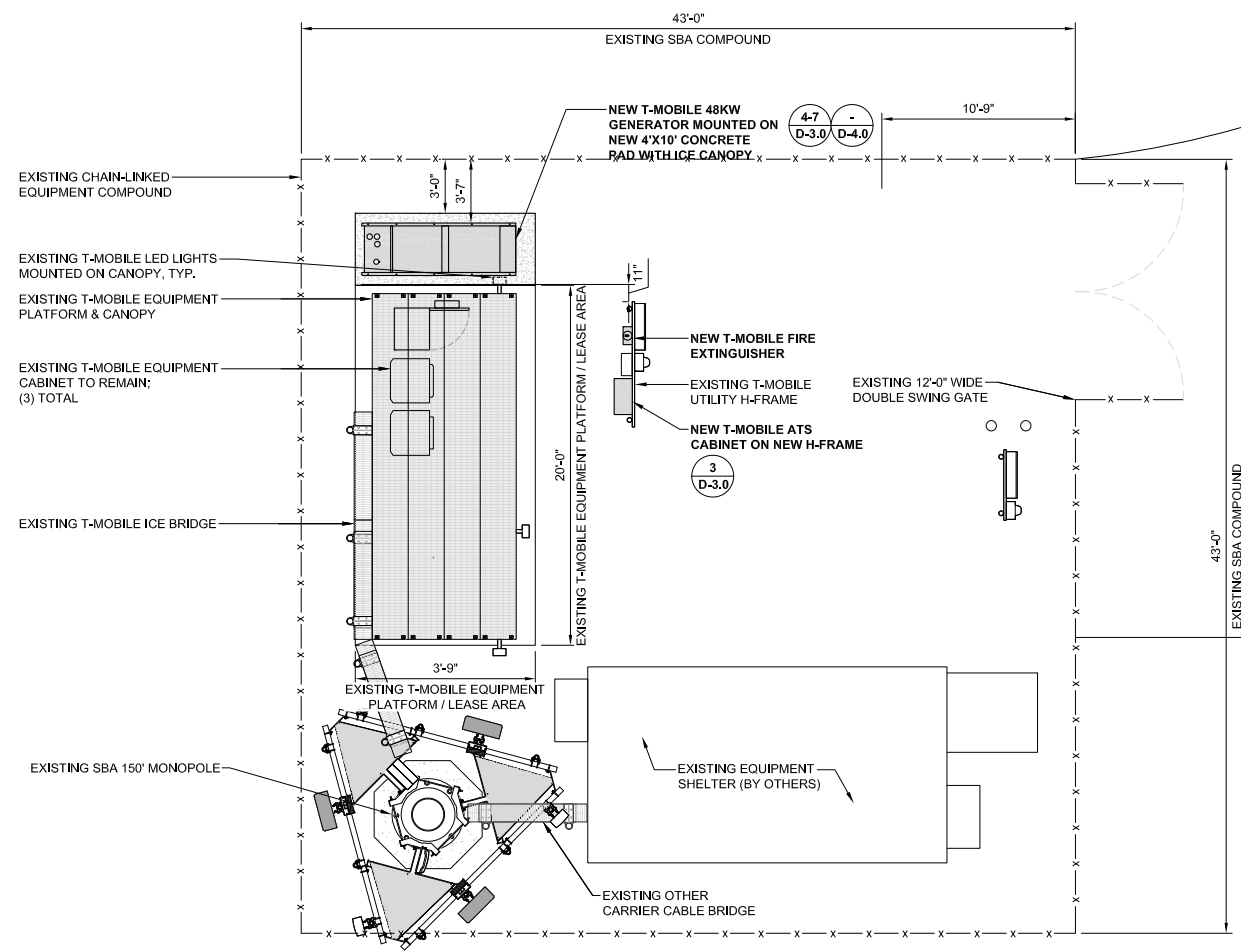
**NOTE:**  
 1. NEW CABLE ROUTING TO FOLLOW EXISTING - SHOWN ON PLANS GENERICALLY (ROUTED) CONTRACTOR TO VERIFY EXISTING BEST ROUTE TO FOLLOW.  
 2. OTHER CARRIER EQUIPMENT NOT SHOWN FOR CLARITY.



**EXISTING EQUIPMENT LAYOUT**

24"x36" SCALE: 3/16" = 1'-0"  
 11"x17" SCALE: 3/32" = 1'-0"  
 0" 2' 4' 8'

**NOTE:**  
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**NEW EQUIPMENT LAYOUT**

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 1387 CALLE AVANZADO  
 SAN CLEMENTE CA 92673 (949) 391-8924

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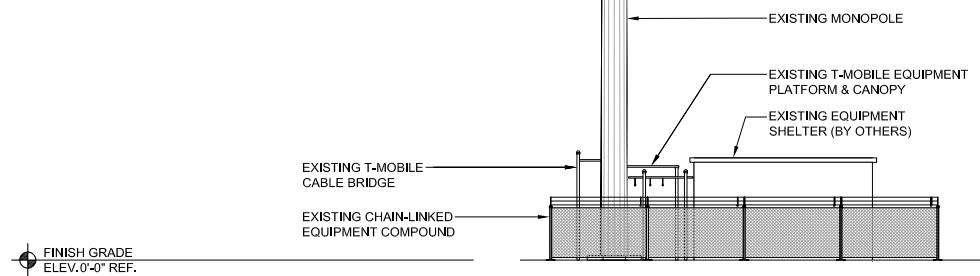
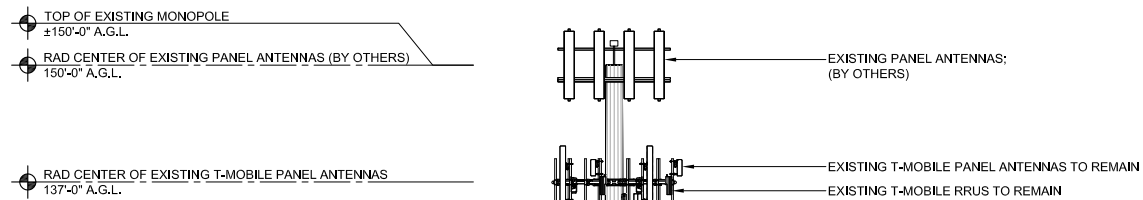
**LOYAL A. WHARTON**  
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SHEET TITLE  
**EQUIPMENT LAYOUT**

SHEET NUMBER  
**A-2.0**

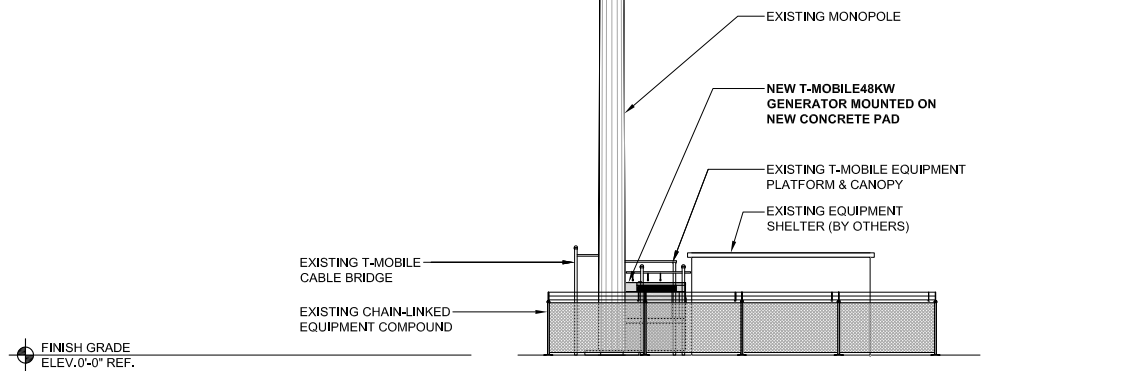
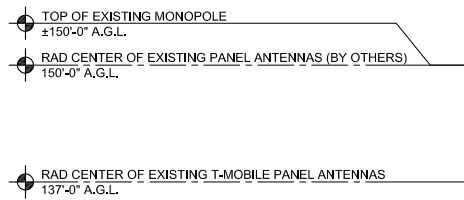


FINISH GRADE ELEV. 0'-0" REF.

24"x36" SCALE: 3/32" = 1'-0"  
11"x17" SCALE: 3/64" = 1'-0"

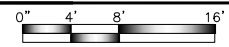


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FINISH GRADE ELEV. 0'-0" REF.

24"x36" SCALE: 1/8" = 1'-0"  
11"x17" SCALE: 1/16" = 1'-0"



2

**EXISTING EAST ELEVATION**

**NEW EAST ELEVATION**



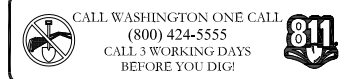
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PORTLAND, OR 97220



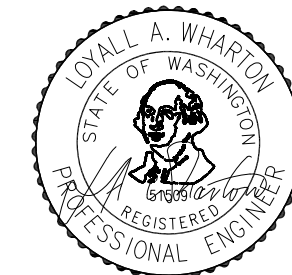
959 SOUTH COAST DR. SUITE 200  
COSTA MESA, CA 92626



1387 CALLE AVANZADO  
SAN CLEMENTE CA 92673 (949) 391-8824



REV	DATE	DESCRIPTION	BY
B	05/17/2017	100% CD'S FOR SUBMITTAL	MP
A	02/22/2021	90% CD'S FOR REVIEW	DGM



Expiration Date: 10-14-2022  
DATE SIGNED: 05/24/2021

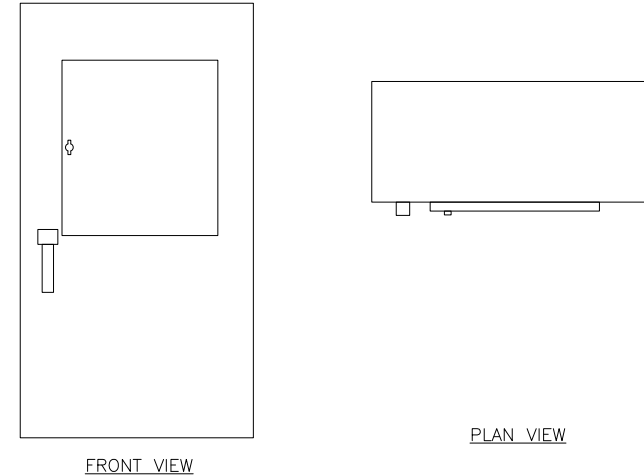
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-MOBILE SITE ID: PO01625E**  
**SITE NAME:**  
**WOODLAND DOWNTOWN**  
**ADDRESS: 271 NORTH PEKIN ROAD,**  
**WOODLAND, WA 98674**  
**SITE TYPE: MONOPOLE**  
**SBA SITE ID: WA48195-A**

SHEET TITLE  
**ELEVATIONS**

SHEET NUMBER  
**A-3.0**

MANUFACTURER:	GENERAC
MODEL NO.:	TAS200
DIMENSIONS:	24"x12"x48"
TOTAL WEIGHT :	210 LBS (33.2 kg)



**T-Mobile**  
8960 ALDERWOOD ROAD  
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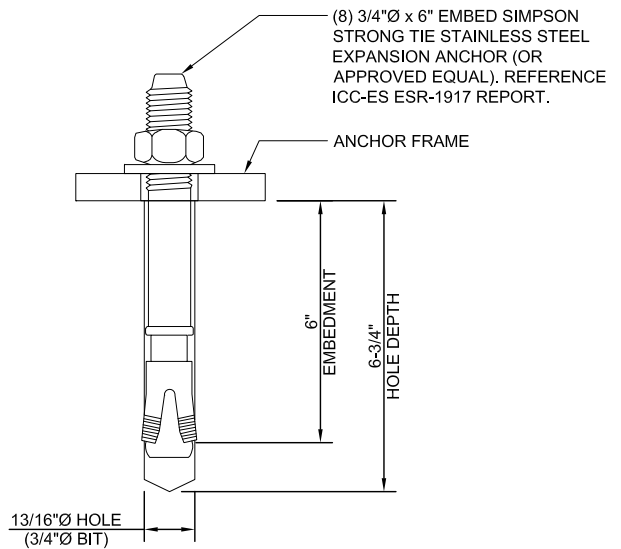
**M SQUARE WIRELESS**  
1387 CALLE AVANZADO  
SAN CLEMENTE CA 92673 (949) 391-8924

**NOT USED**

**1 NOT USED**

**2 ATS CABINET (OR EQUAL)**

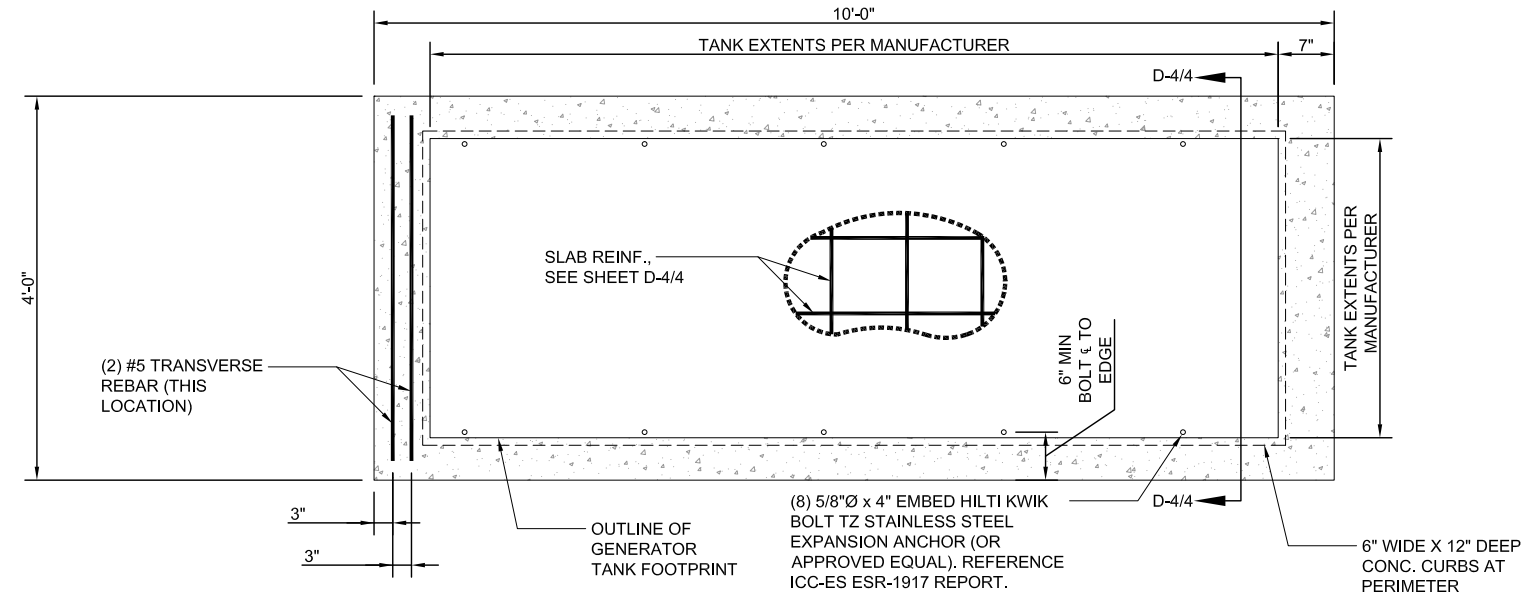
**3**



**TYPICAL ANCHOR DETAIL**

**4 GENERATOR PAD DETAIL**

**5**



**DANGER FLAMMABLE LIQUIDS DIESEL FUEL 190 GALLONS**

PLACE ON (2) VISIBLE SIDES OF NEW GENERATOR TANK  
30" x 24" SIGN

PLACE ON (2) VISIBLE SIDES OF NEW GENERATOR TANK  
18" x 18" SIGN

**EMERGENCY CONTACTS:**

T-MOBILE CONTACT: NAME PHONE #: (XXX) XXX-XXXX

SITE OWNER CONTACT: NAME PHONE #: (XXX) XXX-XXXX

PLACE ON EXTERIOR OF EXISTING EQUIPMENT OR NEAR EXISTING T-MOBILE LEASE AREA  
5" x 3" SIGN

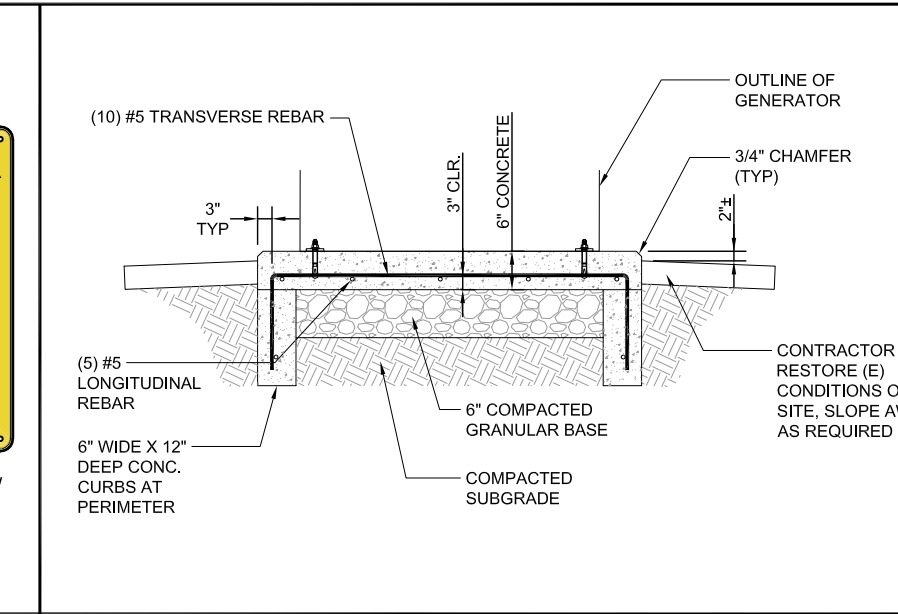
PLACE ON VISIBLE SIDE OF NEW GENERATOR TANK  
20" x 14" SIGN

PLACE ON (2) VISIBLE SIDES OF NEW GENERATOR TANK  
11" x 11" SIGN

REQUIRED LABELING & SIGNAGE

**SIGNAGE REQUIREMENTS**

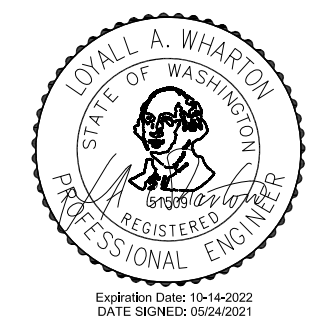
**6 GENERATOR PAD DETAIL**



**7**

CALL WASHINGTON ONE CALL (800) 424-5555 CALL 3 WORKING DAYS BEFORE YOU DIG!

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**SITE TYPE: MONOPOLE**  
**SBA SITE ID: WA48195-A**

SHEET TITLE  
**DETAILS**

SHEET NUMBER  
**D-1.0**

**7**

# FOR REFERENCE ONLY

**RD048 | 3.4L | 48kW**  
INDUSTRIAL DIESEL GENERATOR SET  
EPA Certified Stationary Emergency

**GENERAC INDUSTRIAL POWER**

Model Number  
48kW, G0071940

**Standby Power Rating**  
48 kW, 60 Hz

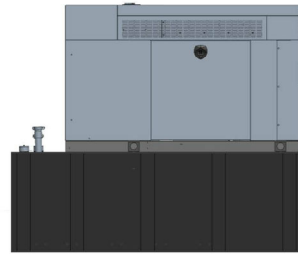


Image used for illustration purposes only.



**CODES AND STANDARDS**

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL508, UL489, UL142
- CSA C22.2
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99
- ISO 3046, 8528, 9001
- NEMA ICS1, ICS10, MG1, 250, ICS6, AB1
- ANSI/IEEE C62.41

**POWERING AHEAD**

For over 50 years, Generac has led the industry with innovative design and superior manufacturing. Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application. Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

**RD048 | 3.4L | 48kW**  
INDUSTRIAL DIESEL GENERATOR SET  
EPA Certified Stationary Emergency

**GENERAC INDUSTRIAL POWER**

**STANDARD FEATURES**

- ENGINE SYSTEM**
  - Block Heater
  - Oil Drain Extension
  - Fan Guard
  - Factory Filled Oil & Coolant
- GENERATOR SET**
  - Sound Attenuated Aluminum Enclosure
  - Internal Genset Vibration Isolation
  - Separation of Circuits - High/Low Voltage
  - Wrapped Exhaust Piping
  - Standard Factory Testing
  - Ready to Accept Full Load in <10 Seconds
  - External Emergency Stop Push Button
- ENCLOSURE**
  - Lockable Doors- Keyed Lock with Padlock Hasp
  - Rust Proof Hardware
  - RhinoCoat™ Textured Polyester Powder Coat
- Electrical System**
  - Battery
  - Battery Charging Alternator
  - Battery Cables
  - Battery Tray
  - Rubber-Booted Engine Electrical Connections
  - Solenoid Activated Starter Motor
  - Smart Battery Charger
  - Battery Disconnect
- ALTERNATOR SYSTEM**
  - 2/3 Pitch
  - Skewed Stator
  - Sealed Bearings
  - Low Temperature Rise (<120°C)
  - Low THD (<5%)
- Cooling System**
  - Closed Coolant Recovery System
  - Factory Installed Radiator
  - 50/50 Ethylene Glycol Antifreeze
  - Radiator Drain Extension
  - Can Operate at up to 122°F (50°C) Ambient Temperature
- Fuel System**
  - Primary Fuel Filter
  - Stainless Steel Fuel Lines
- FUEL TANKS**
  - 48 Minimum Hour Run Time
  - UL142 Listed
  - Lockable Fuel Cap

**CONTROL SYSTEM**



- Evolution™ Controller**
  - Two-Line Plain Text LCD Display
  - Programmable Start Delay Between 10-30 seconds
  - 10 second Engine Start Sequence
  - 5 second Engine Warm Up
  - 1 minute Engine Cool-Down
  - Starter Lock-Out
  - Smart Battery Charger
  - Automatic Voltage Regulation with Over and Under Protection
  - Automatic Low Oil Pressure Shutdown
  - Overtemp Shutdown
  - High Temperature Shutdown
  - Overcrank Protection
  - Safety Fused
  - Failure to Transfer Protection
  - Low Battery Protection
  - 50 Event Run Log
  - Future Set Capable Encoder
  - Inboard Wiring Protection
  - Internal Fault Protection
- Common External Fault Capability**
  - Governor Failure Protection
  - 0802 Diagnostic Port
- Alarms**
  - Door Open
  - Fuel Level
  - 90% Full
  - 50% Low Fuel
  - 10% Shutdown
  - Generator Running
  - Hot In Auto
  - Common Shutdown

**OPTIONAL SHIPPED LOOSE AND FIELD INSTALL KITS**

- GENERATOR SET**
  - Fuel Kit
  - Scheduled Maintenance Kit
- FUEL TANK**
  - Fuel Fill Drop Tube
  - Spill Box
  - 90% Fuel Audible Alarm
  - Tank Risers
  - Spill Box Drainback Kit
  - Vent Extension Support Kit
  - Overfill Prevention Valve

SPEC SHEET

SPEC SHEET

**RD048 | 3.4L | 48kW**  
INDUSTRIAL DIESEL GENERATOR SET  
EPA Certified Stationary Emergency

**GENERAC INDUSTRIAL POWER**

**APPLICATION AND ENGINEERING DATA**

**ENGINE SPECIFICATIONS**

General		Cooling System	
Make	Generac	Cooling System Type	Pressurized Closed Recovery
Cylinder #	4	Fan Type	Pusher
Type	In-Line	Fan Speed (rpm)	2,059
Displacement - in <sup>3</sup> (L)	207.48 (3.4)	Fan Diameter - mm (in)	22 (5/8)
Bore - in (mm)	3.86 (98)	Fuel System	
Stroke - in (mm)	4.45 (113)	Fuel Type	Ultra Low Sulfur Diesel Fuel
Compression Ratio	18.5:1	Fuel Specification	ASTM
Intake Air Method	Subcharged/Aftercooled	Fuel Pump Type	Mechanical Engine Driven Gear
Cylinder Head	Cast Iron GWF	Injector Type	Mechanical
Piston Type	Aluminum	Fuel Supply Line (mm/in)	7.84 (0.31) ID
Engine Governing		Fuel Return Line (mm/in)	7.84 (0.31) ID
Governor	Electronic	Fuel Filtering (microns)	10
Frequency Regulation (Steady State)	±0.25%	Engine Electrical System	
Lubrication System		System Voltage	12 VDC
Oil Pump Type	Gear	Battery Charger Alternator	Standard
Oil Filter Type	Full Flow Spin-On Canister	Battery Size	Group 27F
Crankcase Capacity - L (qt)	7.0 (7.4)	Battery Voltage	12 VDC
		Ground Polarity	Negative

**ALTERNATOR SPECIFICATIONS**

Standard Model		Standard Excitation	
Poles	4	Bearings	Sealed Ball
Field Type	Rotating	Coupling	Flexible Disc
Insulation Class - Rotor	F	Prototype Short Circuit Test	Yes
Insulation Class - Stator	H	Voltage Regulator Type	Full Digital
Total Harmonic Distortion	<5%	Regulation Accuracy (Steady State)	±1.0%
Telephone Interference Factor (TIF)	<50		

SPEC SHEET

**RD048 | 3.4L | 48kW**  
INDUSTRIAL DIESEL GENERATOR SET  
EPA Certified Stationary Emergency

**GENERAC INDUSTRIAL POWER**

**OPERATING DATA**

POWER RATINGS			
Standby	48 kW	Amps: 200	Circuit Breaker Size Amps: 200
Single-Phase 120/240 VAC @ 0.4pf			

**STARTING CAPABILITIES (kVA)**

kVA vs. Voltage Dip at 30%	
120/240 V, Single-Phase at 0.4pf	189

**FUEL CONSUMPTION RATES\***

Percent Load	Diesel gal/hr (L/hr)
25%	1.35 (5.11)
50%	2.15 (8.14)
75%	3.05 (11.58)
100%	3.95 (15.07)

\* Fuel supply installation must accommodate fuel consumption rates at 100% load.

**COOLING**

Standby	
Air Flow (Radiator and Alternator)	cfm (m <sup>3</sup> /min) 2824 (80)
Coolant System Capacity	gal (l) 2.8 (10.6)
Heat Rejection to Coolant	BTU/hr (kW/hr) 135,900 (143.4)
Temperature Deration	3% for every 5°C above 25°C or 1.7% for every 5°F over 77°F
Altitude Deration	1% for every 100 m above 915 or 3% for every 1000 ft over 3000 ft
Maximum Ambient Temperature Operating Range	°F (°C) -20 - 122 (-28 - 50)
Maximum Radiator Backpressure	in H <sub>2</sub> O

**COMBUSTION AIR REQUIREMENTS**

Standby	
Flow at Rated Power cfm (m <sup>3</sup> /min)	190 (5.38)

**ENGINE**

Standby		Standby	
Rated Engine Speed	rpm 1800	Exhaust Flow (Rated Output)	cfm (m <sup>3</sup> /min) 448 (12.7)
		Exhaust Temp (Rated Output - Flue Silencer)	°F (°C) 1120 (604.4)

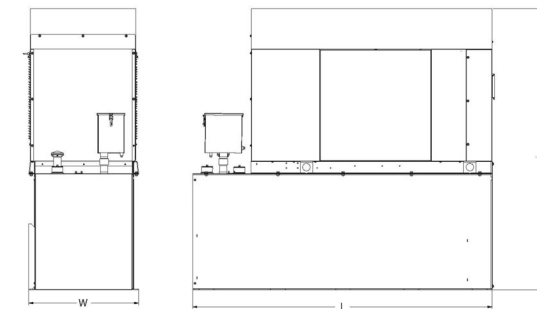
Deration - Operational characteristics consider maximum ambient conditions. Deration factors may apply under atypical site conditions. Please consult a Generac Power Systems Dealer for additional details. All performance ratings are in accordance with ISO14346, ISO9514, ISO9596 and ISO8521 standards.

SPEC SHEET

**RD048 | 3.4L | 48kW**  
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**GENERAC INDUSTRIAL POWER**

**DIMENSIONS AND WEIGHTS\***



Unit Weight - lbs	Unit Weight with Skid - lbs	Dimensions (L x W x H) - in
2,915	2,954	103.4 (2,625) x 35.0 (888) x 90.0 (2,286)

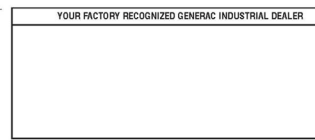
**48kW Fuel Consumption**

Fuel Tank Gross Total Capacity	240
Fuel Tank Gross Usable Capacity	229
Fuel Tank Net Usable Capacity (Run Hours Based on Net Usable Capacity)	206
Run Hours 100% Load	24
Run Hours 75% Load	67
Run Hours 50% Load	96

**Sound Emission Data**

Rated Load Sound Output at 23ft - dB(A)	65
---	----

\* All measurements are approximate and for estimation purposes only.



Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

SPEC SHEET

**T-Mobile**

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PORTLAND, OR 97220



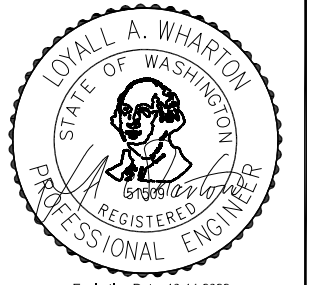
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COSTA MESA, CA 92626

**M SQUARE**  
WIRELESS

1387 CALLE AVANZADO  
SAN CLEMENTE CA 92673 (949) 391-8924

CALL WASHINGTON ONE CALL  
(800) 424-5555  
CALL 3 WORKING DAYS  
BEFORE YOU DIG!

REV	DATE	DESCRIPTION	BY
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Expiration Date: 10-14-2022  
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**SITE TYPE: MONOPOLE**  
**SBA SITE ID: WA48195-A**

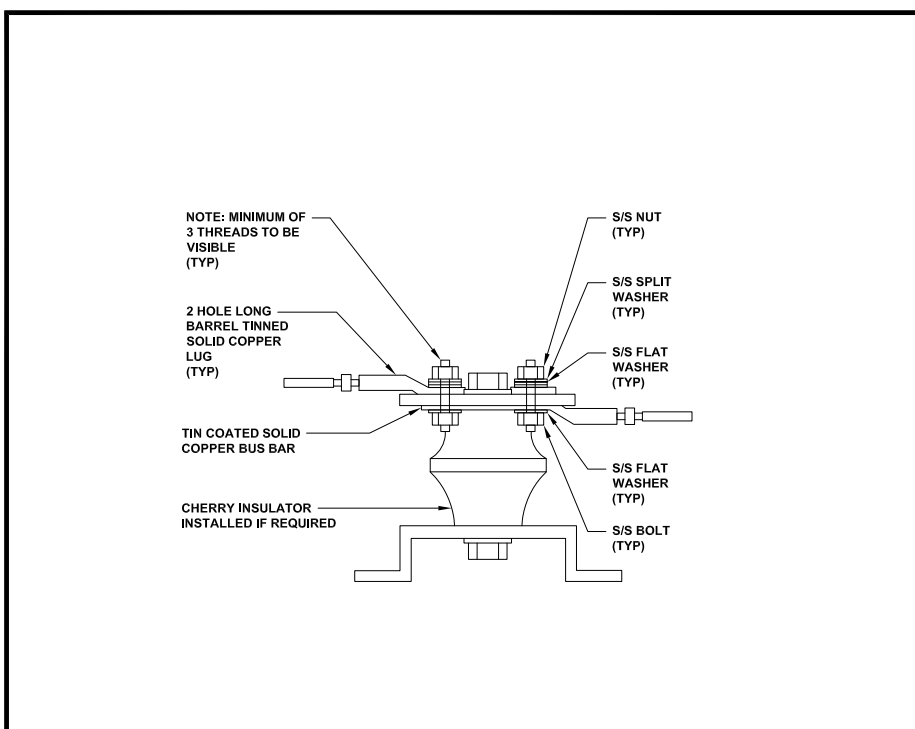
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**DETAILS**

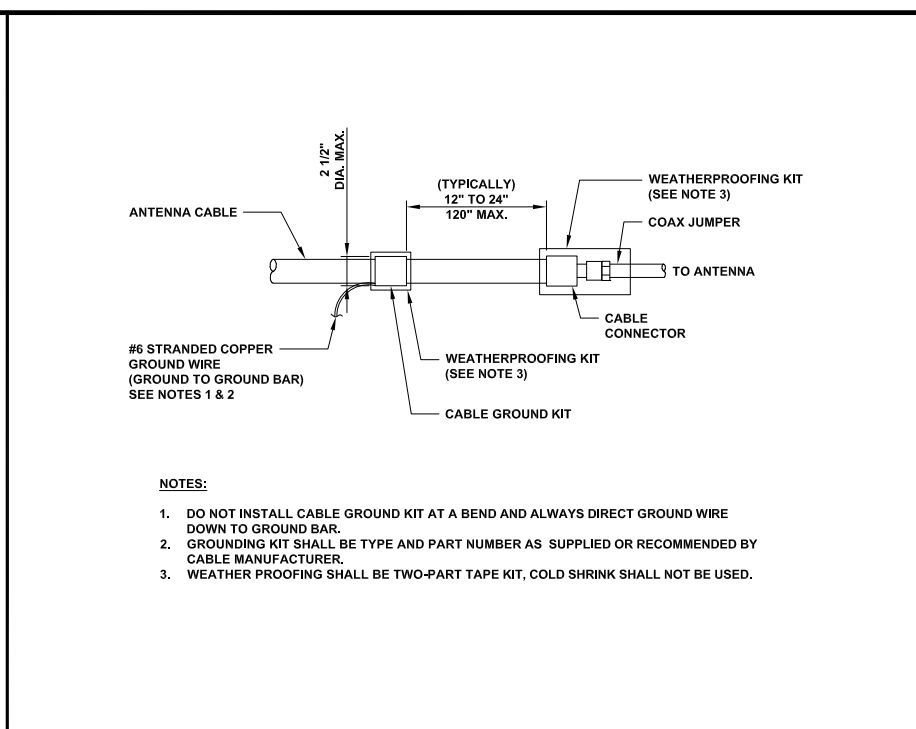
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**D-2.0**

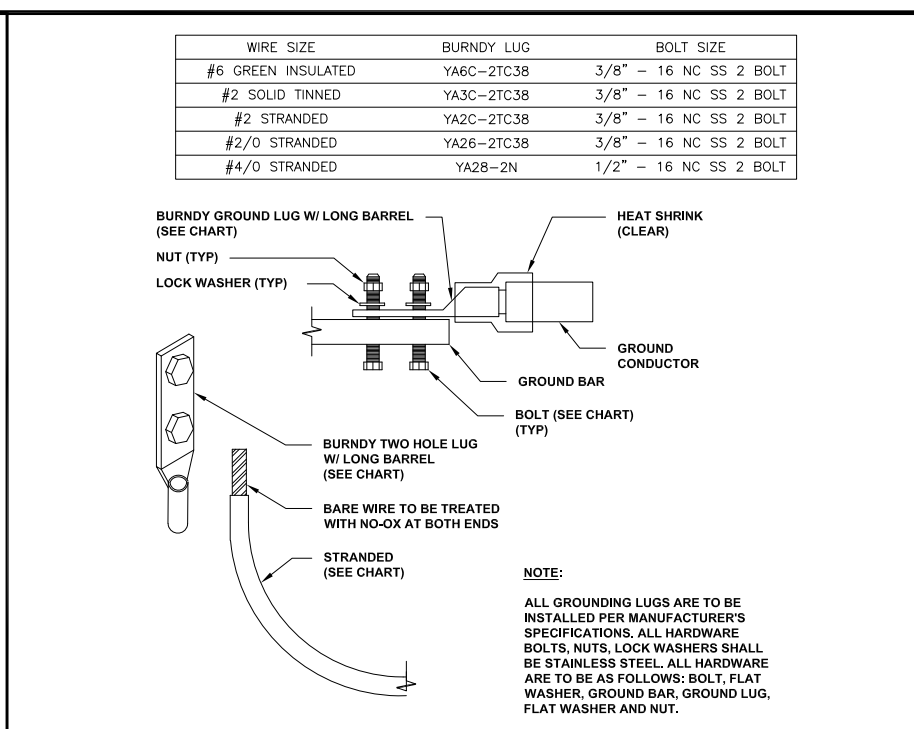




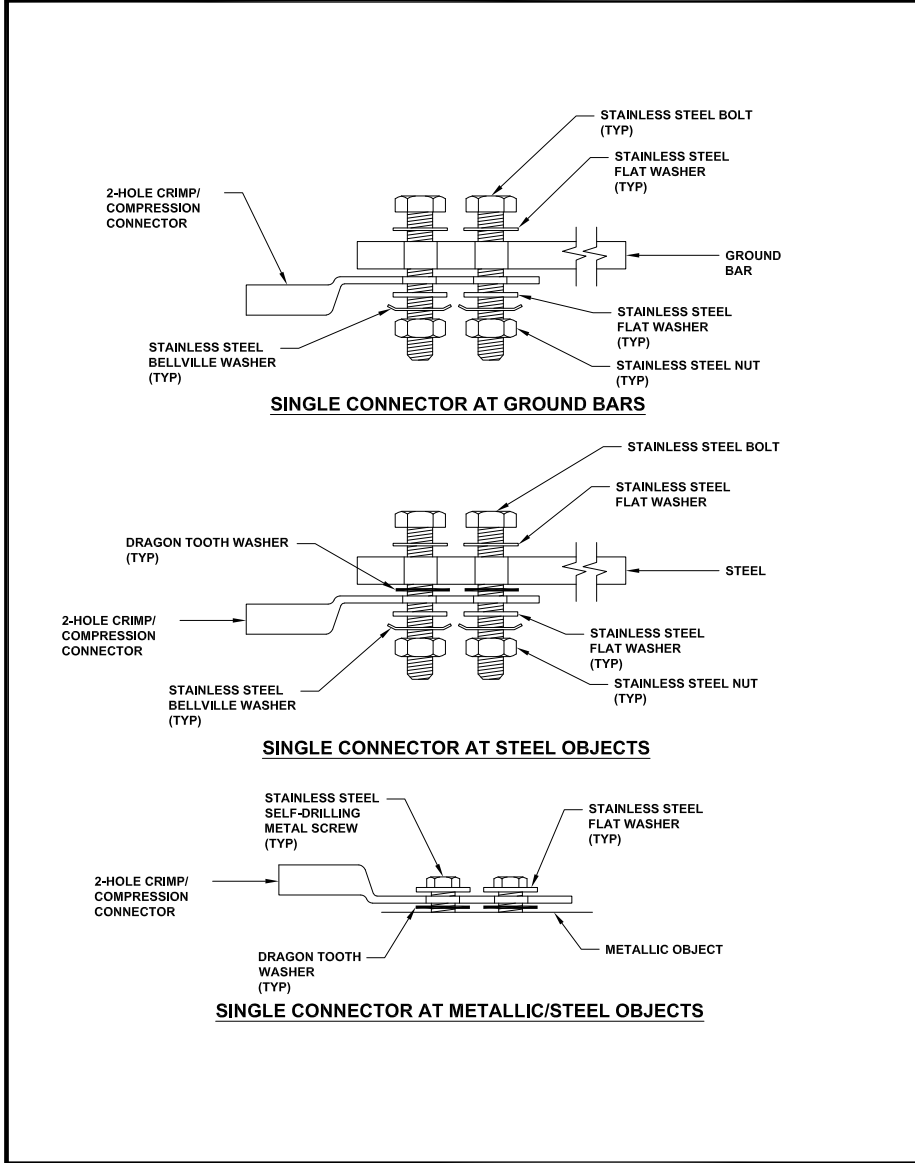
**LUG DETAIL** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



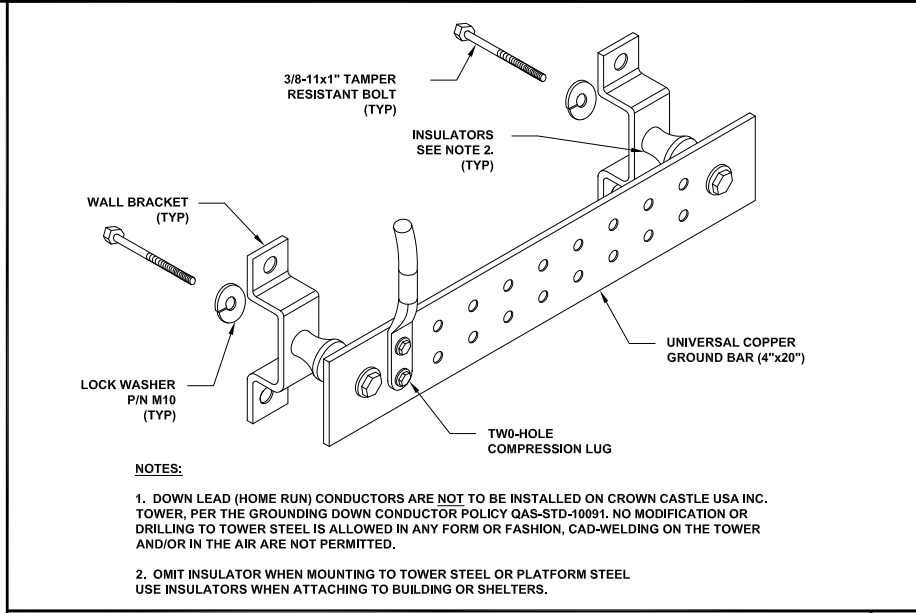
**CABLE GROUND KIT CONNECTION** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



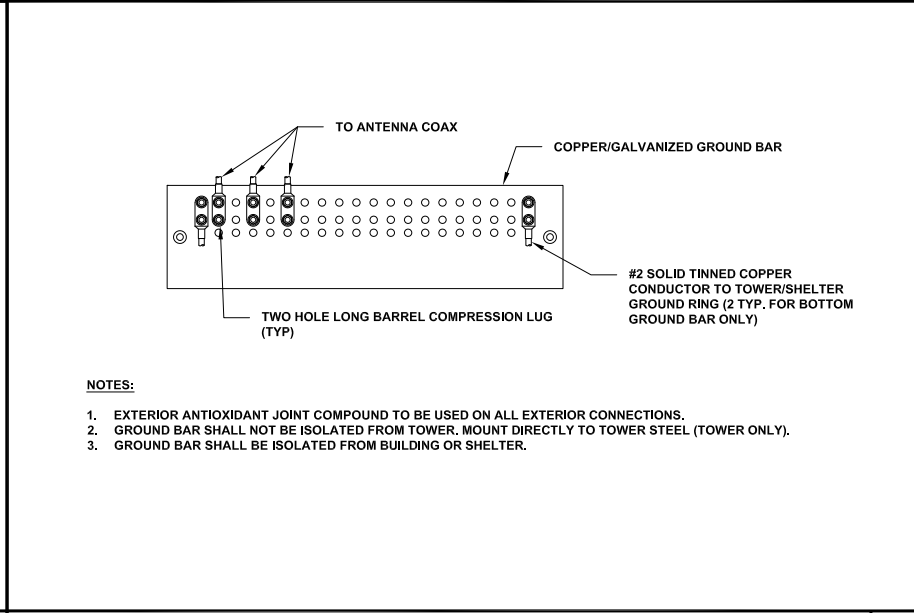
**MECHANICAL LUG CONNECTION** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



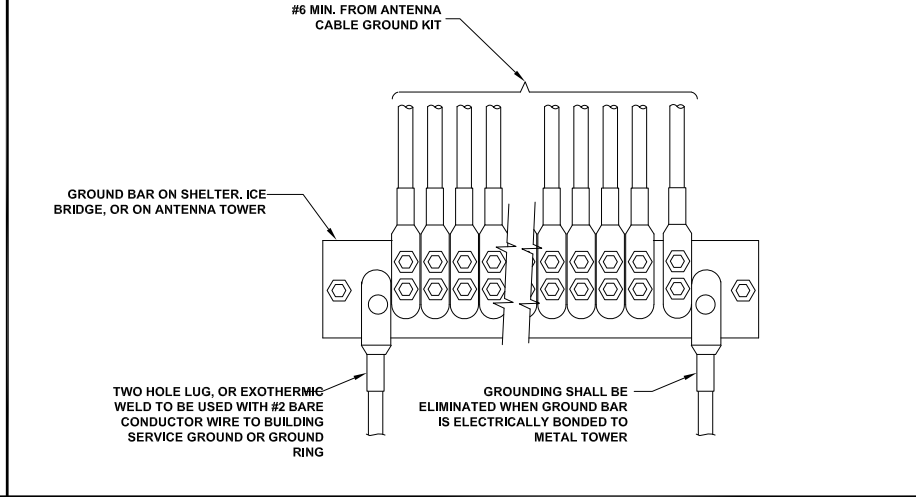
**EXTERIOR CONNECTIONS DETAILS** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



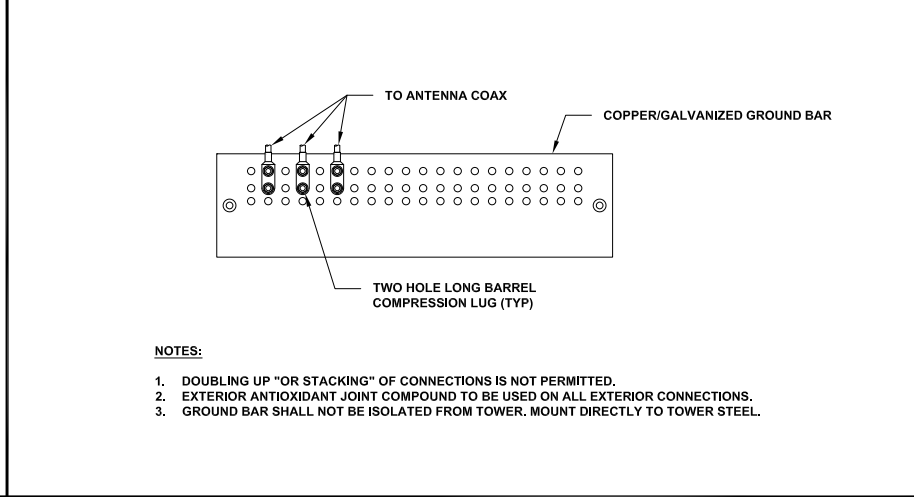
**GROUND BAR DETAIL** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



**TOWER/SHELTER GROUND BAR DETAIL** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



**GROUNDWIRE INSTALLATION** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



**ANTENNA GROUND BAR DETAIL** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS

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**LOYAL A. WHARTON**  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
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**GROUNDING DETAILS**

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