First Amendment to Communications Facility Ground Lease

This **First Amendment** to the above-entitled **Ground Lease** is entered into on April 20, 2022 ("Effective Date"), by and between the **City of Wilsonville**, a municipal corporation ("Lessor"), and **Clackamas 800 Radio Group** ("C800"), an intergovernmental entity formed pursuant to ORS Chapter 190, Milwaukie, Oregon ("Lessee")[collectively, "the Parties"].

WHEREAS, Lessor is the owner of certain real property located in Clackamas County, State of Oregon, at Tax lot 502, Section 1, T3S, R1W, W.M., Oregon ("the Property"), which is more particularly shown on **Exhibit A** attached to the Ground Lease, and incorporated by reference herein; and

WHEREAS, Lessee leased an approximate three thousand square-foot (3,000 SF) portion of the Property ("Ground Space") for placement of the Lessee's equipment shelter, generator, propane tank, and communications tower. The Ground Space is more particularly shown and described on **Exhibit B** attached to the Ground Lease, and incorporated byreference herein. (**Exhibit B** also includes Access Area and Utility Easement area.) The Ground Space was leased for the purpose of erecting, constructing, installing, and operating thereon: an equipment shelter; communications tower for antennas and microwave dish(es); an emergency power generator and propane tank; fencing; and all other necessary associated equipment and facilities (collectively, "the Communications Facility," as more particularly described in **Exhibit C** attached to the GroundLease, and incorporated by reference herein); and

WHEREAS, after execution of the Ground Lease it was determined that Lessee placed an electrical transformer and associated power cables (collectively, "Transformer/Cables") in an unauthorized location in the middle of Lessor's Property, in violation of the Ground Lease; and

WHEREAS, Lessee desires to immediately cure any violation of the Ground Lease as set forth below;

NOW, THEREFORE, in consideration of the mutual promises contained herein, and incorporating the above Recitals as if fully set forth below, the Parties agree as follows:

- 1. <u>Ground Space</u>. At Lessee's option, Lessee shall either immediately remove or relocate the Transformer/Cables to a location agreeable to the Lessor or, in the alternative, Lessor will allow the Transformer/Cables to remain where currently placed, but only if Lessee agrees to the requirements of the First Amendment and completes all of the following within forty five (45) days of the Effective Date of this Amendment:
 - Retain a licensed and bonded surveyor to create a certified and stamped survey of the actual location of the Transformer/Cables, to be titled "Transformer/Cables Area," attached to this First Amendment as part of **Exhibit D**, and incorporated herein by this reference.

- Require the surveyor to revise Exhibit B descriptions and map to incorporate the actual location of the Transformer/Cables, which revised descriptions and map shall be titled "Revised Exhibit Map", "Description of Ground Lease", "Revised Description of Access Area" and "Revised Description of Utility Easement attached to this First Amendment as Exhibit E, and incorporated herein by this reference.
- Require a licensed engineer to update the "as-built" survey, showing the exact location of the Transformer/Cables and any other needed modifications, which updated plans shall be titled "As-Built Survey C800 Wilsonville Water Tank Tower," attached to this First Amendment as Exhibit F, and incorporated herein by this reference.
- Revise Exhibit C Proposed Communication Facility including final construction drawings for C-4 Wilsonville Tank, last updated 7/23/19 with C-4 Wilsonville Tank "As-Built" Drawings dated 1/4/2021 and updated 5/16/21, labeled as **Exhibit G**, and incorporated herein by this reference.
- Install fiberglass rods in the ground at the beginning, end, and any significant transition points of the associated power cables.
- Install two additional bollards on back side of transformer (per construction punch-list dated 7/28/2020)
- Install warning signs on gate into cell tower area (per construction punch-list dated 7/28/2020)
- Either provide 24 purple beach trees to the adjoining property owner or provide Lessor with confirmation from the property owner stating the owner no longer want the trees, as provided in the Ground Lease.
- 2. <u>Future Relocation</u>. If Lessee otherwise complies with all of the requirements of this First Amendment but opts not to cause the Transformer/Cables to be removed or relocated, and for any reason Lessor later deems that the Transformer/Cables must be moved to a different location within the Property, Lessee expressly agrees to move the Transformer/Cables at Lessee's expense to a location acceptable to Lessor within 120 days of written notice from Lessor to Lessee.
- 3. No Other Equipment or Improvements. No other equipment of any nature, may be placed on the Property, and no additional work or improvements may be performed on the Property or within the Ground Space, without the express prior written approval of Lessor's Public Works Director.
- 4. <u>Fencing and Rods.</u> All existing fence lines on the Property shall remain in place and may not be moved or altered in any way by Lessee. No additional fences may be added to the Property by Lessee.

5. <u>Right to Occupancy Suspended.</u> Lessee's right to access the Property shall be suspended pending the completion of all requirements listed in Section 1. Lessee's right of access shall be fully restored upon Lessee's receipt of written acceptance of such requirements from Lessor's Public Works Director.

Except as provided herein, all other provisions of the Ground Lease shall remain, as written, and in full force and effect. In the event of any inconsistency or ambiguity when read with this First Amendment, this First Amendment will control

IN WITNESS WHEREOF, the Parties hereto have executed this First Amendment on the Effective Date above written.

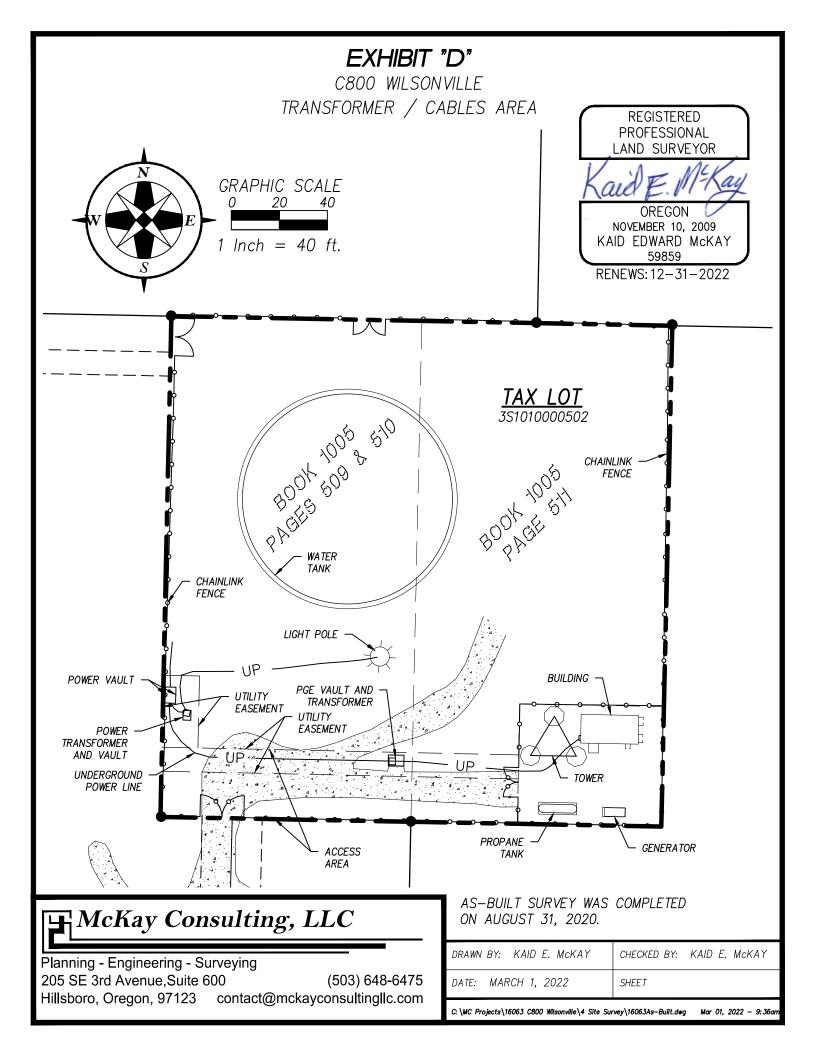
LESSOR:	LESSEE:
City of Wilsonville	Clackamas 800 Radio Group
29799 SW Town Center Loop E	11300 SE Fuller Rd
Wilsonville, OR 97070	Milwaukie, OR 97222
Ву:	By:
Print Name:	Print Name:
Title:	Title:
APPROVED AS TO FORM:	APPROVED AS TO FORM:
Ryan Adams	Eileen G. Eakins
Wilsonville Assistant City Attorney	Attorney for C800

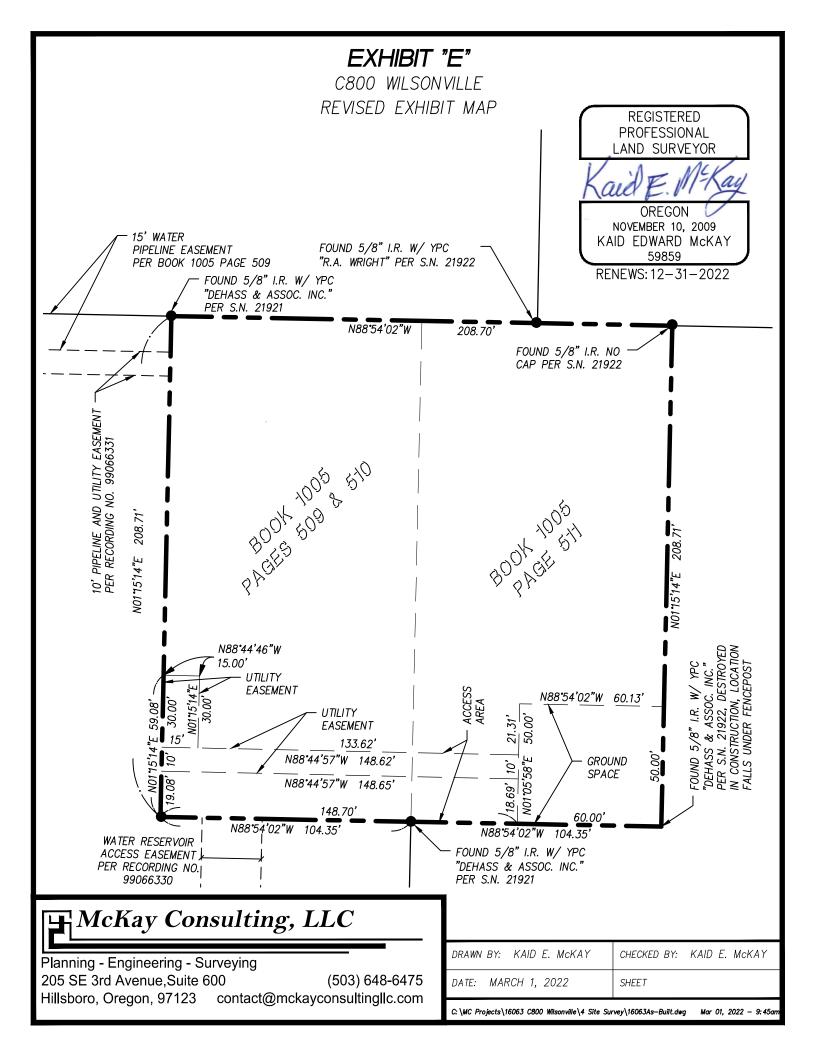
5. <u>Right to Occupancy Suspended.</u> Lessee's right to access the Property shall be suspended pending completion of all requirements listed in Section 1. Lessee's right of access shall be fully restored upon Lessee's receipt of written acceptance of such requirements from Lessor's Public Works Director.

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IN WITNESS WHEREOF, the Parties hereto have executed this First Amendment on the Effective Date above written.

LESSEE:
Clackamas 800 Radio Group
11300 SE Fuller Rd
Milwaukie, OR 97222
By:
Print Name: Jorge Tro
Title: C800 Board Chair
APPROVED AS TO FORM:
lile tal
Eileen G. Eakins
Attorney for C800





Planning – Engineering - Surveying 205 SE 3rd Avenue, Suite 600 Hillsboro, OR 97123 contact@mckayconsultingllc.com

EXHIBIT "E"

DESCRIPTION OF GROUND SPACE

MARCH 1, 2022

A PORTION OF THAT PROPERTY CONVEYED TO THE CITY OF WILSONVILLE BY THE DEED RECORDED IN BOOK 1005 PAGES 511 OF THE DEED RECORDS OF WASHINGTON COUNTY, OREGON, LOCATED IN THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 1 OF TOWNSHIP 3 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, WASHINGTON COUNTY, OREGON, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A 5/8" IRON ROD WITH A YELLOW PLASTIC CAP MARKED "DE HAAS & ASSOC. INC." SET IN SURVEY NO. 21,921 FILED IN THE OFFICE OF THE COUNTY SURVEYOR OF SAID COUNTY TO MARK THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO THE CITY OF WILSONVILLE BY THAT DEED RECORD IN BOOK 1005 PAGE 509 OF THE DEED RECORDS OF SAID COUNTY, FROM WHICH A 5/8" IRON ROD WITH A YELLOW PLASTIC CAP MARKED "DE HAAS & ASSOC. INC." SET IN SAID SURVEY FOR THE SOUTHEAST CORNER OF SAID PROPERTY, BEARS SOUTH 88°54'02" EAST 104.35 FEET; THENCE ALONG THE SOUTH LINES OF SAID BOOK 1005 PAGE 509 AND BOOK 1005 PAGE 511 SOUTH 88°54'02" EAST 148.70 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 01°05'58" EAST 50.00 FEET; THENCE SOUTH 88°54'02" EAST 60.13 FEET TO THE EAST LINE OF SAID BOOK 1005 PAGE 511; THENCE SOUTH 01°15'14" WEST 50.00 FEET TO THE SOUTHEAST CORNER OF SAID BOOK 1005 PAGE 511; THENCE ALONG SAID SOUTH LINE NORTH 88°54'02" WEST 60.00 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINS 3003 SQUARE FEET MORE OR LESS

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON
NOVEMBER 10, 2009
KAID EDWARD McKAY
59859

RENEWS: 12-31-2022

Planning – Engineering - Surveying 205 SE 3rd Avenue, Suite 600 Hillsboro, OR 97123 contact@mckayconsultingllc.com

EXHIBIT "E"

REVISED DESCRIPTION OF ACCESS AREA

MARCH 1, 2022

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CONTAINS 4294 SQUARE FEET MORE OR LESS

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON
NOVEMBER 10, 2009
KAID EDWARD McKAY
59859

EXPIRES: 12-31-2020

Planning – Engineering - Surveying 205 SE 3rd Avenue, Suite 600 Hillsboro, OR 97123 contact@mckayconsultingllc.com

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MARCH 1, 2022

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CONTAINS 1936 SQUARE FEET MORE OR LESS

PROFESSIONAL
LAND SURVEYOR

AND SURVEYOR

OREGON
NOVEMBER 10, 2009

REGISTERED

KAID EDWARD McKAY 59859

- THE BOUNDARY SHOWN ON THIS SURVEY IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING OF GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. PROPERTY LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED EXCEPT AS SHOWN ON THIS PLAN. NO PROPERTY MONUMENTS WERE SET.
- PROPERTY LINES SHOWN ON THIS SURVEY ARE BASED ON SURVEYS 21921 AND 21922 ON FILE WITH WASHINGTON COUNTY,

UTILITY CAUTION

UNDERGROUND UTILITIES SHOWN ON THIS SURVEY WERE LOCATED BASED ON UTILITY MARK OUTS PAINTED FOLLOWING A CALL FOR A FREE UTILITY LOCATE. NOT ALL UTILITIES MAY BE SHOWN. CALL FOR UTILITY LOCATES BEFORE DIGGING.

BENCH MARK

THE DATUM FOR THIS SURVEY IS NAVD 88. AN ELEVATION WAS ESTABLISHED FOR THE PROJECT BENCHMARK USING GPS METHODS AND GEOID12B.

BASIS OF BEARING/LOCAL DATUM PLANE COORDINATES

THE BASIS OF BEARING FOR THIS SURVEY IS THE OREGON STATE PLANE COORDINATE SYSTEM OF 1983, NORTH ZONE (3106) WITH COORDINATES ESTABLISHED USING GPS AND THE OREGON DEPARTMENT OF TRANSPORTATION'S ORGN SERVICE.

LOCAL DATUM PLANE COORDINATES: AN AVERAGE COMBINED SCALE FACTOR OF 1.000120090 WAS USED TO CONVERT GRID COORDINATES TO GROUND COORDINATES SO CALCULATED GRID DISTANCES AND GROUND DISTANCE WOULD MATCH (I.E. - GRID COORDINATE TIMES SCALE FACTOR EQUALS GROUND COORDINATE).

PROPERTY LEGAL DESCRIPTIONS (PER VESTING DEEDS)

BOOK 1005 PAGES 509 & 510

BEGINNING AT THE WEST QUARTER SECTION CORNER OF SECTION 1, TOWNSHIP 3 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN; THENCE NORTH ON THE WEST LINE OF SAID SECTION 1321.6 FEET TO AN IRON PIPE DRIVEN AT THE NORTHWEST CORNER OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER: THENCE NORTH 89"1' EAST ALONG THE NORTH LINE OF SAID QUARTER SECTION 823.2 FEET TO THE NORTHEAST CORNER OF THE TRACT OF LAND CONVEYED TO ARTHUR L. WHITAKER AND WIFE BY DEED RECORDED DECEMBER 18, 1940 IN BOOK 194, PAGE 650, DEED RECORDS, WHICH IS THE TRUE PLACE OF BEGINNING; THENCE SOUTH 0°46' EAST ALONG THE EAST LINE OF THE WHITAKER TRACT 208.71 FEET; THENCE SOUTH 89" WEST PARALLEL WITH THE NORTH LINE OF THE WHITAKER TRACT 104.35 FEET; THENCE NORTH 0°46' WEST PARALLEL WITH THE EAST LINE OF THE WHITAKER TRACT 208.71 FEET TO THE NORTH LINE OF THE WHITAKER TRACT; THENCE NORTH 89" EAST A DISTANCE OF 104.35 FEET TO THE TRUE PLACE OF BEGINNING;

BOOK 1005 PAGE 511

BEGINNING AT THE SOUTHEAST CORNER OF GOVERNMENT LOT 1, SECTION 1, TOWNSHIP 3 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN; THENCE SOUTH 89", WEST ALONG THE SOUTH LINE OF SAID LOT 1 AND A PROLONGATION THEREOF ALONG THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER 1829.7 FEET TO THE NORTHEAST CORNER OF THAT TRACT CONVEYED TO ARTHUR W. WHITAKER, ET UX, BY DEED RECORDED IN BOOK 194, PAGE 650, DEED RECORDS, WHICH IS THE TRUE PLACE OF BEGINNING; THENCE SOUTH 0°46' EAST ALONG THE EAST LINE OF WHITAKER TRACT 208.71 FEET; THENCE NORTH 89°1 EAST 104.35 FEET; THENCE NORTH 0°46' WEST ON A LINE DRAWN PARALLEL WITH THE EAST LINE OF THE WHITAKER TRACT 208.71 FEET TO THE NORTH LINE OF THE PAULINE BASIER LAIRD TRACT; THENCE SOUTH 89"1' WEST 104.35 FEET TO THE TRUE PLACE OF

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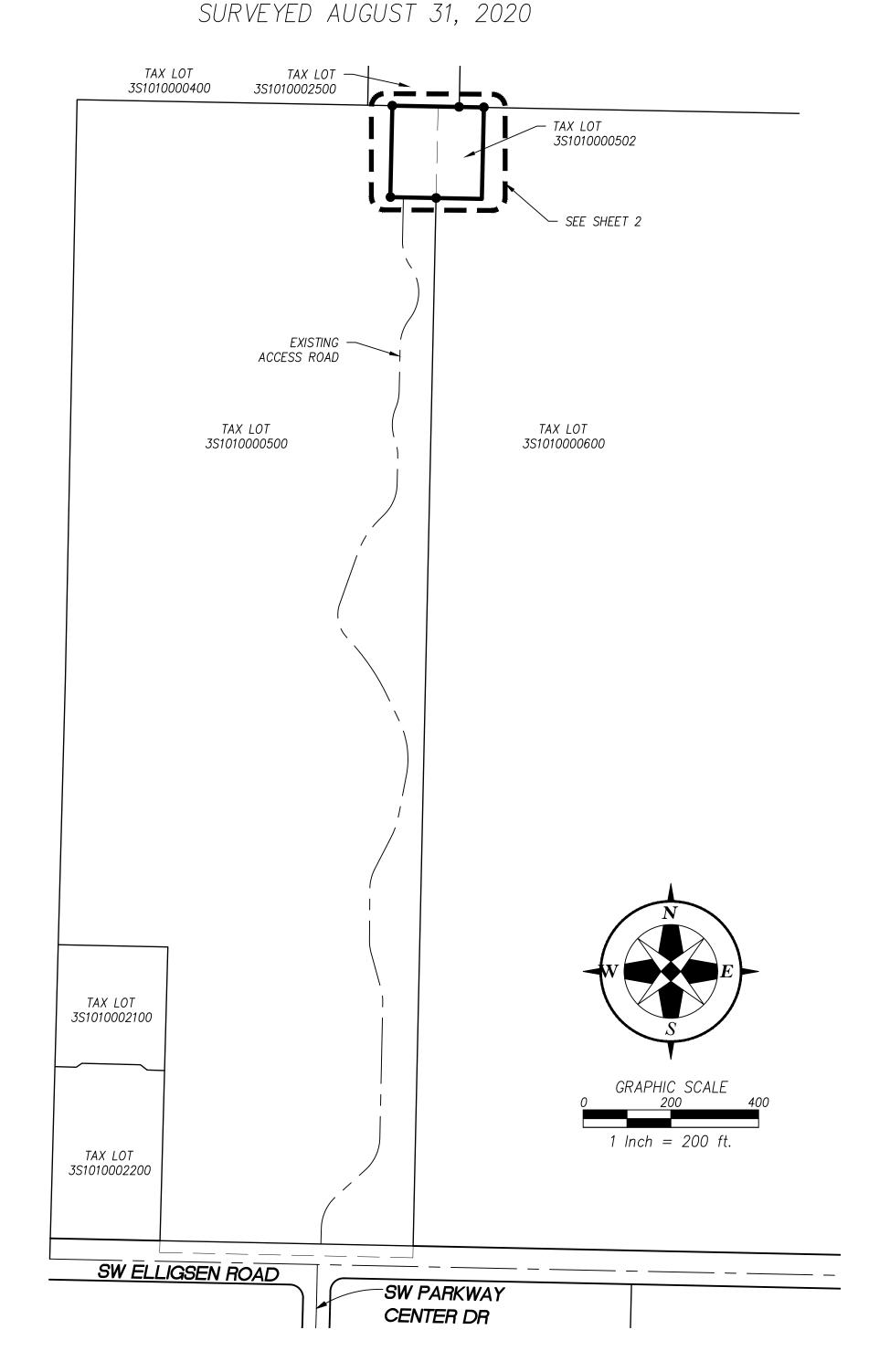
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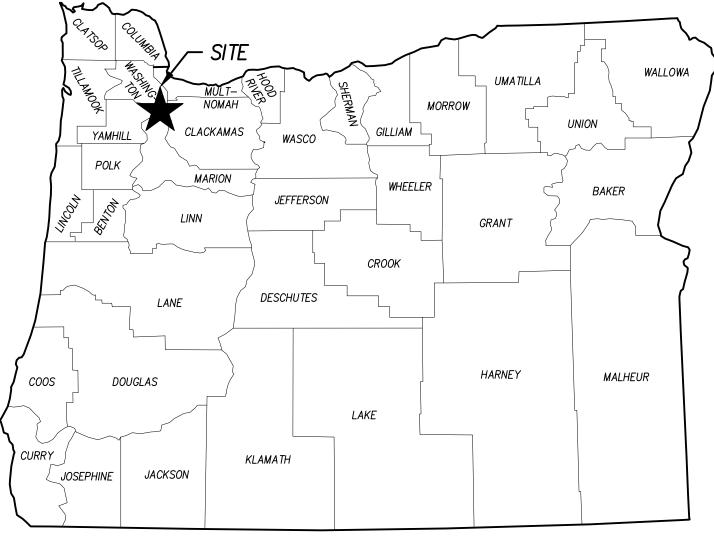
CONTAINS 1936 SQUARE FEET MORE OR LESS

EXHIBIT F

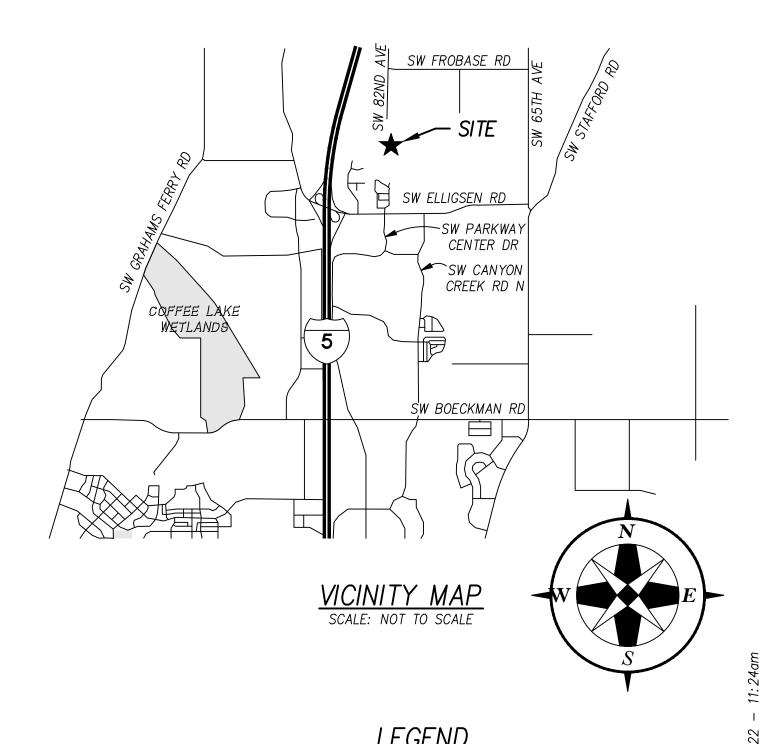
AS-BUILT SURVEY C800- WILSONVILLE WATER TANK TOWER

A TRACT OF LAND IN SECTION 1 TOWNSHIP 3 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN IN WASHINGTON COUNTY, OREGON





LOCATION MAP



LLOLIND	
	PROPERTY BOUNDAR
	RIGHT-OF-WAY
	CENTER LINE
	LOT LINE
	RECORD LINE
	EASEMENT



SURVEY MONUMENT AS NOTED

REGISTERED **PROFESSIONAL** LAND SURVEYOR

OREGON NOVEMBER 10, 2009 KAID EDWARD McKAY RENEWS: 12-31-2022

DESIGNED BY: KAID E. McKAY DRAWN BY: KAID E. McKAY

CHECKED BY: KAID E. McKAY

DATE: SEPTEMBER 3, 2020 REVISED ON: MARCH 1, 2022 JOB NAME: C800 - WILSONVILLE

JOB #: 16063

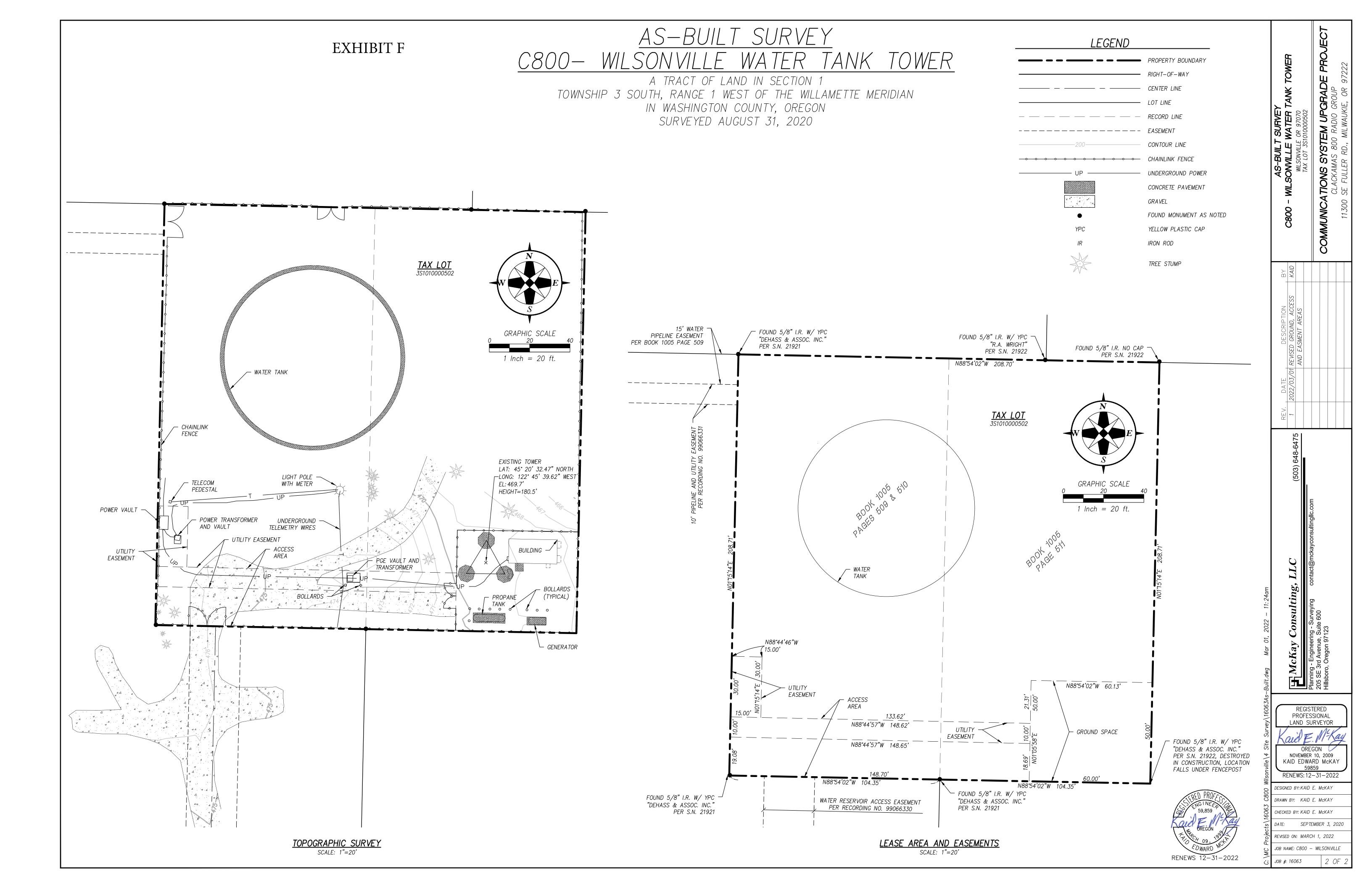


Exhibit G



SITE NAME:

WILSONVILLE TANK

8323 SW ELLIGSEN ROAD, TUALATIN, OR 97062



Updated 5/16/2022

PROJECT INFORMATION PROJECT INFORMATION CONTINUED **SHEET INDEX DRIVING DIRECTIONS DOCUMENT REVIEW** T-1 COVER SHEET FROM C800 OFFICE; PROPERTY OWNER: APPLICANT: DATE SIGNATURE CLACKAMAS 800 RADIO GROUP (C800) CITY OF WILSONVILLE SURVEY I 29799 SW TOWN CENTER LOOP EAST HEAD SOUTHWEST ON SE FULLER RD TOWARD SE MICHAEL DR 11300 SE FULLER RD MILWAUKIE, OR 97222 WILSONVILLE, OR 97070 SURVEY II CONTACT CONTACT SITE ACQ: DELORA KERBER JOHN HARTSOCK TURN LEFT ONTO SE MONTEREY AVE SURVEY III 503-682-4092 503-780-4806 BJORN MORFIN (503) 781-9762 kerber@ci.wilsonville.or.us G-1 GENERAL NOTES JURISDICTION: **PROJECT MANAGER:** TURN RIGHT ONTO OR-213 ZONING: WASHINGTON COUNT 503-781-9762 SKIP GREENE (503) 866-5111 MERGE ONTO I-205 S/STATE HWY 213 S/WAR VETERANS MEMORIAL FWY SPECIAL INSPECTIONS II COUNTY: (SIGNS FOR STATE HWY 224) **ZONING CONTACT:** SITE ACQUISITION: EXISTING SITE CONDITIONS PLAN APPLICANT: SKIP GREENE BJORN MORFIN SECURASITE LLC SECURASITE LLC JOHN HARTSOCK (503) 780-4806 USE THE LEFT 2 LANES TO TAKE THE INTERSTATE 5 S EXIT TOWARD ZONING: 1631 NE BROADWAY, PMB 100 EFU (EXCLUSIVE FARM USE) PORTLAND, OR 97219 PORTLAND, OR 97232 503-866-5111 503-781-9762 PROJECT MGR: PARCEL NUMBER(S) & AREA: skip.greene@comcast.net bmorfin@securasite.net MERGE ONTO I-5 S BJORN MORFIN (503) 781-9762 43,560 SQ. FT. ± TAKE EXIT 286 FOR ELLIGSEN ROAD/BOONES FERRY ROAD PROJECT DESCRIPTION: CLACKAMAS COUNTY 800 RADIO GROUP PROPOSES TO CONSTRUCT A

PROJECT LOCATION

SCALE: NTS



PROJECT INFORMATION:

WILSONVILLE TANK

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

DATE	RELEASE
7/21/17	PRELIM. CONSTRUCTION SUBMITTAL
8/18/17	FINAL CONSTRUCTION SUBMITTAL
9/21/17	UPDATED GEN. & PROP. TANK SHT
1/12/18	FINAL CONSTRUCTION SUBMITTAL
2/23/18	FINAL CONSTRUCTION SUBMITTAL
6/20/19	FINAL CONSTRUCTION SUBMITTAL
7/9/19	FINAL CONSTRUCTION SUBMITTAL
7/18/19	FINAL CONSTRUCTION SUBMITTAL
7/23/19	FINAL CONSTRUCTION SUBMITTAL
9/12/19	PLAN CHECK #1
2 1/4/21	AS-BUILTS
3 5/16/22	AS-BUILTS (CLIENT REV.)
DRAWING INFO	PRMATION:

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Don Cushing Associates Civil Engineers

107 SE WASHINGTON STREET SUITE 265 PORTLAND, OR 97214 (503) 387-5331 www.cushing-engr.com



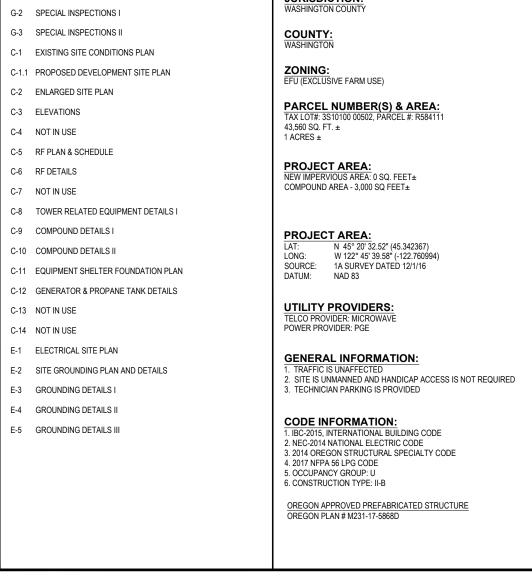
RENEWAL DATE 12/31/21

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

T-1



NEW UNSTAFFED ESSENTIAL PUBLIC COMMUNICATIONS SERVICE USE THE LEFT 2 LANES TO TURN LEFT ONTO SW ELLIGSEN RD (SIGNS FACILITY CONSISTING OF A NEW 180' TALL SELF SUPPORTING LATTICE FOR ELLIGNSEN RD) TOWER, A PRE-FABRICATED EQUIPMENT SHELTER, A GENERATOR AND 0.5 MI A PROPANE TANK BOTH ON CONCRETE PADS ALL WITHIN A NEW 60' X 50' ALARMED 6' TALL SECURITY FENCED LEASE AREA. ACCESS TO SITE TURN LEFT AT SW PARKWAY CENTER DR FOLLOW ROAD NORTH ONTO DIRT ACCESS ROAD FOR 1/4 MILE TO THE EST. TIME: 23 MINS LOCATOR MAP EST. MILEAGE: 17.7 MI

NOTES

- THE BOUNDARY SHOWN ON THIS SURVEY IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING OF GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. PROPERTY LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED EXCEPT AS SHOWN ON THIS PLAN. NO PROPERTY MONUMENTS WERE SET.
- PROPERTY LINES SHOWN ON THIS SURVEY ARE BASED ON SURVEYS 21921 AND 21922 ON FILE WITH WASHINGTON COUNTY,

UTILITY CAUTION

UNDERGROUND UTILITIES SHOWN ON THIS SURVEY WERE LOCATED BASED ON UTILITY MARK OUTS PAINTED FOLLOWING A CALL FOR A FREE UTILITY LOCATE. NOT ALL UTILITIES MAY BE SHOWN. CALL FOR UTILITY LOCATES BEFORE DIGGING.

BENCH MARK

THE DATUM FOR THIS SURVEY IS NAVD 88. AN ELEVATION WAS ESTABLISHED FOR THE PROJECT BENCHMARK USING GPS METHODS AND GEOID12B.

BASIS OF BEARING/LOCAL DATUM PLANE COORDINATES

THE BASIS OF BEARING FOR THIS SURVEY IS THE OREGON STATE PLANE COORDINATE SYSTEM OF 1983, NORTH ZONE (3106) WITH COORDINATES ESTABLISHED USING GPS AND THE OREGON DEPARTMENT OF TRANSPORTATION'S ORGN SERVICE.

LOCAL DATUM PLANE COORDINATES: AN AVERAGE COMBINED SCALE FACTOR OF 1.000120090 WAS USED TO CONVERT GRID COORDINATES TO GROUND COORDINATES SO CALCULATED GRID DISTANCES AND GROUND DISTANCE WOULD MATCH (I.E. — GRID COORDINATE TIMES SCALE FACTOR EQUALS GROUND COORDINATE).

PROPERTY LEGAL DESCRIPTIONS (PER VESTING DEEDS)

BOOK 1005 PAGES 509 & 510

BEGINNING AT THE WEST QUARTER SECTION CORNER OF SECTION 1, TOWNSHIP 3 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN; THENCE NORTH ON THE WEST LINE OF SAID SECTION 1321.6 FEET TO AN IRON PIPE DRIVEN AT THE NORTHWEST CORNER OF THE SOUTHWEST QUARTER; THENCE NORTH 89°1' EAST ALONG THE NORTH LINE OF SAID QUARTER SECTION 823.2 FEET TO THE NORTHEAST CORNER OF THE TRACT OF LAND CONVEYED TO ARTHUR L. WHITAKER AND WIFE BY DEED RECORDED DECEMBER 18, 1940 IN BOOK 194, PAGE 650, DEED RECORDS, WHICH IS THE TRUE PLACE OF BEGINNING; THENCE SOUTH 0°46' EAST ALONG THE EAST LINE OF THE WHITAKER TRACT 208.71 FEET; THENCE SOUTH 89°1' WEST PARALLEL WITH THE NORTH LINE OF THE WHITAKER TRACT 104.35 FEET; THENCE NORTH 0°46' WEST PARALLEL WITH THE EAST LINE OF THE WHITAKER TRACT 208.71 FEET TO THE NORTH LINE OF THE WHITAKER TRACT; THENCE NORTH 89°1' EAST A DISTANCE OF 104.35 FEET TO THE TRUE PLACE OF BEGINNING;

BOOK 1005 PAGE 511

BEGINNING AT THE SOUTHEAST CORNER OF GOVERNMENT LOT 1, SECTION 1, TOWNSHIP 3 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN; THENCE SOUTH 89°1' WEST ALONG THE SOUTH LINE OF SAID LOT 1 AND A PROLONGATION THEREOF ALONG THE SOUTH LINE OF THE NORTHWEST QUARTER 1829.7 FEET TO THE NORTHEAST CORNER OF THAT TRACT CONVEYED TO ARTHUR W. WHITAKER, ET UX, BY DEED RECORDED IN BOOK 194, PAGE 650, DEED RECORDS, WHICH IS THE TRUE PLACE OF BEGINNING; THENCE SOUTH 0°46' EAST ALONG THE EAST LINE OF WHITAKER TRACT 208.71 FEET; THENCE NORTH 89°1' EAST 104.35 FEET; THENCE NORTH 0°46' WEST ON A LINE DRAWN PARALLEL WITH THE EAST LINE OF THE WHITAKER TRACT 208.71 FEET TO THE NORTH LINE OF THE PAULINE BASIER LAIRD TRACT; THENCE SOUTH 89°1' WEST 104.35 FEET TO THE TRUE PLACE OF BEGINNING.

LEGAL DESCRIPTION FOR GROUND SPACE

A PORTION OF THAT PROPERTY CONVEYED TO THE CITY OF WILSONVILLE BY THE DEED RECORDED IN BOOK 1005 PAGES 511 OF THE DEED RECORDS OF WASHINGTON COUNTY, OREGON, LOCATED IN THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 1 OF TOWNSHIP 3 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, WASHINGTON COUNTY, OREGON, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A 5/8" IRON ROD WITH A YELLOW PLASTIC CAP MARKED "DE HAAS & ASSOC. INC." SET IN SURVEY NO. 21,921 FILED IN THE OFFICE OF THE COUNTY SURVEYOR OF SAID COUNTY TO MARK THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO THE CITY OF WILSONVILLE BY THAT DEED RECORD IN BOOK 1005 PAGE 509 OF THE DEED RECORDS OF SAID COUNTY, FROM WHICH A 5/8" IRON ROD WITH A YELLOW PLASTIC CAP MARKED "DE HAAS & ASSOC. INC." SET IN SAID SURVEY FOR THE SOUTHEAST CORNER OF SAID PROPERTY, BEARS SOUTH 88°54'02" EAST 104.35 FEET; THENCE ALONG THE SOUTH LINES OF SAID BOOK 1005 PAGE 509 AND BOOK 1005 PAGE 511 SOUTH 88°54'02" EAST 148.70 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 01°05'58" EAST 50.00 FEET; THENCE SOUTH 88°54'02" EAST 60.13 FEET TO THE EAST LINE OF SAID BOOK 1005 PAGE 511; THENCE SOUTH 01°15'14" WEST 50.00 FEET TO THE SOUTHEAST CORNER OF SAID BOOK 1005 PAGE 511; THENCE ALONG SAID SOUTH LINE NORTH 88°54'02" WEST 60.00 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINS 3003 SQUARE FEET MORE OR LESS

LEGAL DESCRIPTION FOR ACCESS AREA

A PORTION OF THOSE PROPERTIES CONVEYED TO THE CITY OF WILSONVILLE BY THE DEEDS RECORDED IN BOOK 1005 PAGES 509, 510 & 511 OF THE DEED RECORDS OF WASHINGTON COUNTY, OREGON, LOCATED IN THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 1 OF TOWNSHIP 3 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, WASHINGTON COUNTY, OREGON, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A 5/8" IRON ROD WITH A YELLOW PLASTIC CAP MARKED "DE HAAS & ASSOC. INC." SET IN SURVEY NO. 21,921 FILED IN THE OFFICE OF THE COUNTY SURVEYOR OF SAID COUNTY TO MARK THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO THE CITY OF WILSONVILLE BY THAT DEED RECORD IN BOOK 1005 PAGE 509 OF THE DEED RECORDS OF SAID COUNTY; THENCE ALONG THE SOUTH LINES OF SAID BOOK 1005 PAGE 509 AND BOOK 1005 PAGE 511 SOUTH 88°54'02" EAST 148.70 FEET; THENCE NORTH 01°05'58" EAST 28.69 FEET; THENCE NORTH 88°44'57" WEST 148.62 FEET TO A POINT ON THE WEST LINE OF SAID BOOK 1005 PAGE 509; THENCE ALONG SAID WEST LINE SOUTH 01°15'14" WEST 29.08 FEET TO THE POINT OF BEGINNING.

CONTAINS 4294 SQUARE FEET MORE OR LESS

LEGAL DESCRIPTION FOR UTILITY EASEMENT

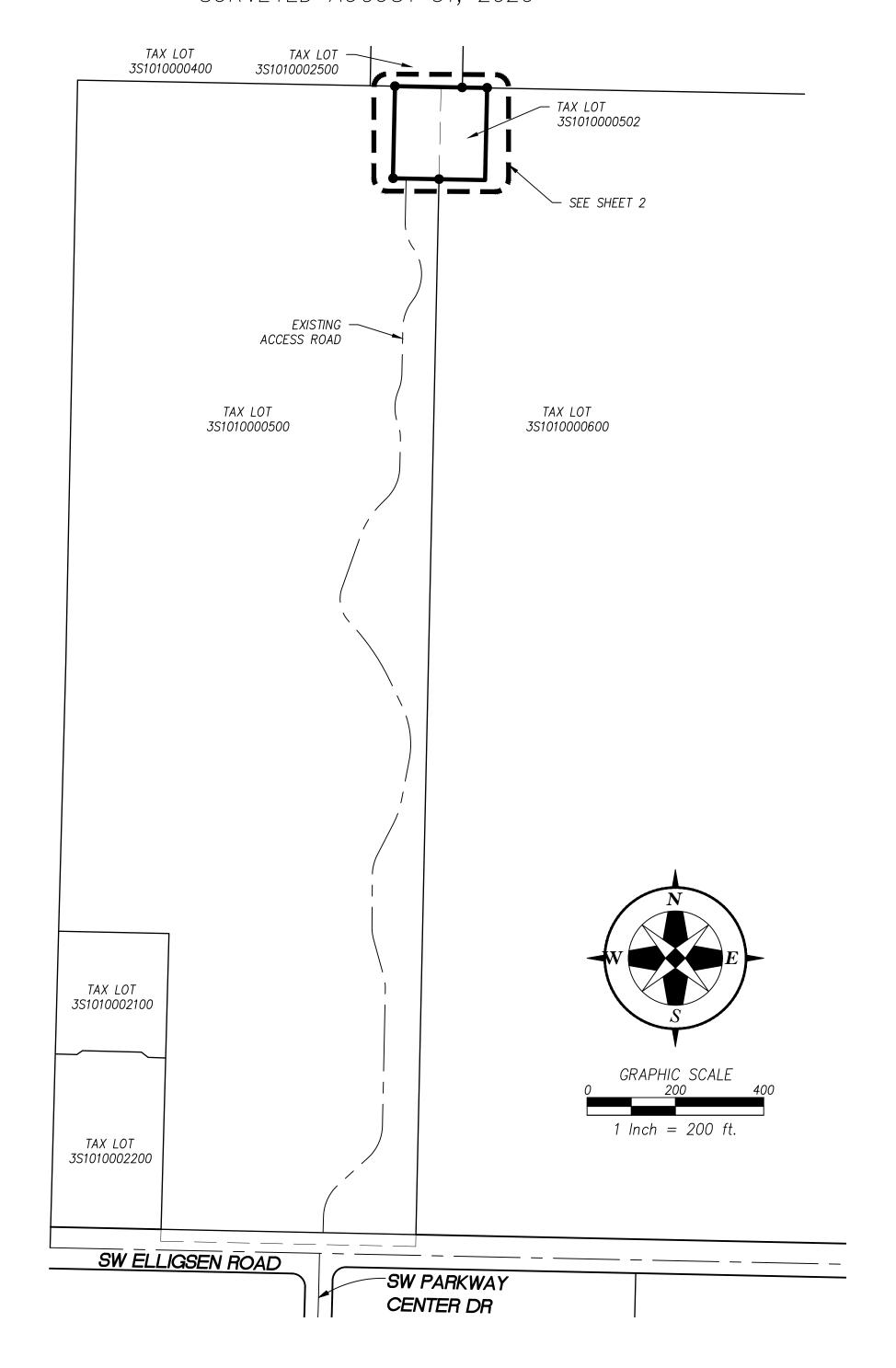
A PORTION OF THOSE PROPERTIES CONVEYED TO THE CITY OF WILSONVILLE BY THE DEEDS RECORDED IN BOOK 1005 PAGES 509, 510 & 511 OF THE DEED RECORDS OF WASHINGTON COUNTY, OREGON, LOCATED IN THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 1 OF TOWNSHIP 3 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, WASHINGTON COUNTY, OREGON, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

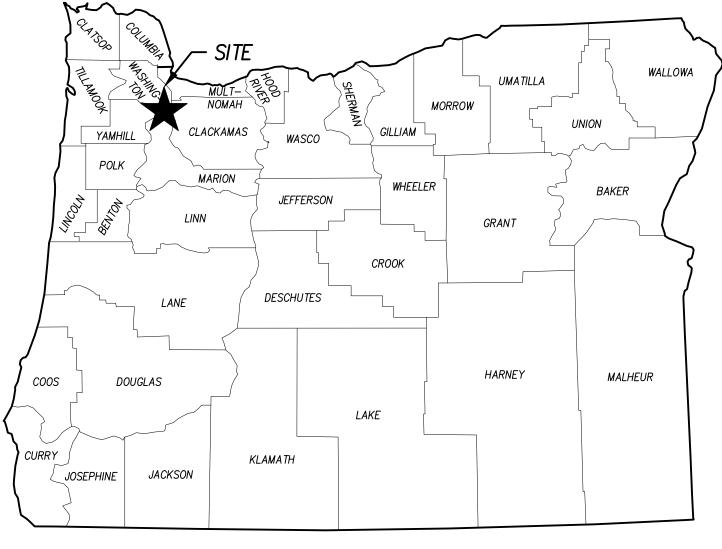
COMMENCING AT A 5/8" IRON ROD WITH A YELLOW PLASTIC CAP MARKED "DE HAAS & ASSOC. INC." SET IN SURVEY NO. 21,921 FILED IN THE OFFICE OF THE COUNTY SURVEYOR OF SAID COUNTY TO MARK THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO THE CITY OF WILSONVILLE BY THAT DEED RECORD IN BOOK 1005 PAGE 509 OF THE DEED RECORDS OF SAID COUNTY; FROM WHICH A 5/8" IRON ROD WITH A YELLOW PLASTIC CAP MARKED "DE HAAS & ASSOC. INC." SET IN SAID SURVEY FOR THE SOUTHEAST CORNER OF SAID BOOK 1005 PAGE 509 OF SAID PROPERTY, BEARS SOUTH 88°54'02" EAST 104.35 FEET; THENCE ALONG THE SOUTH LINES OF SAID BOOK 1005 PAGE 509 AND BOOK 1005 PAGE 511 SOUTH 88°44'57" WEST 148.70 FEET; THENCE NORTH 01°05'58" EAST 18.69 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 88°44'57" WEST 148.65 FEET TO A POINT ON THE WEST LINE OF SAID BOOK 1005 PAGE 509; THENCE NORTH 01°15'14" EAST 40.00 FEET ALONG SAID WEST LINE; THENCE SOUTH 88°44'46" EAST 15.00 FEET; THENCE SOUTH 01°15'14" WEST 30.00 FEET; THENCE SOUTH 88°44'57" EAST 133.62 FEET; THENCE SOUTH 01°05'58" WEST 10.00 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINS 1936 SQUARE FEET MORE OR LESS

<u>AS-BUILT SURVEY</u> <u>C800- WILSONVILLE WATER TANK TOWER</u>

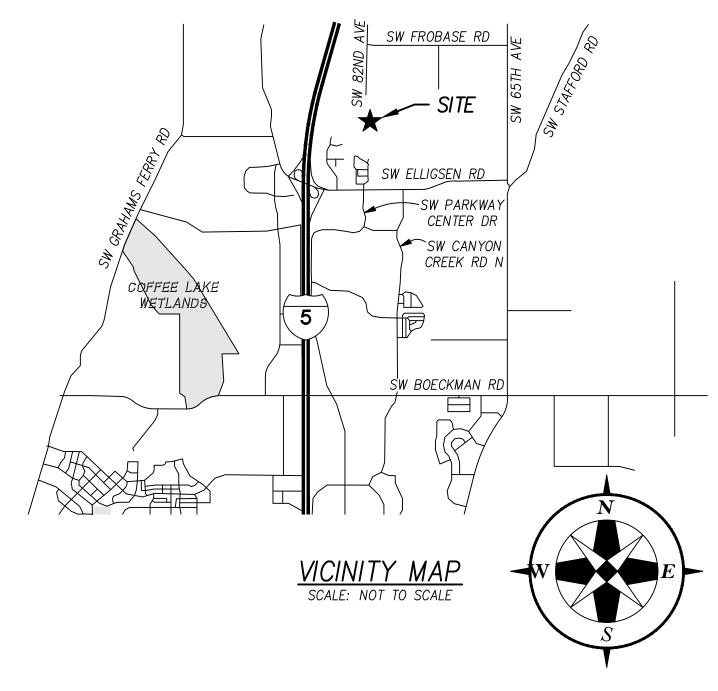
A TRACT OF LAND IN SECTION 1
TOWNSHIP 3 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN
IN WASHINGTON COUNTY, OREGON
SURVEYED AUGUST 31, 2020





LOCATION MAP

SCALE: NOT TO SCALE



LEGEND	
	PROPERTY BOUNDARY
	RIGHT-OF-WAY
	CENTER LINE
	· LOT LINE
	RECORD LINE
	EASEMENT
•	SURVEY MONUMENT AS NO





RE AC

OREGON
NOVEMBER 10, 2009
KAID EDWARD McKAY
59859
RENEWS: 12-31-2022

LAND SURVEYOR

DESIGNED BY: KAID E. McKAY

DRAWN BY: KAID E. McKAY

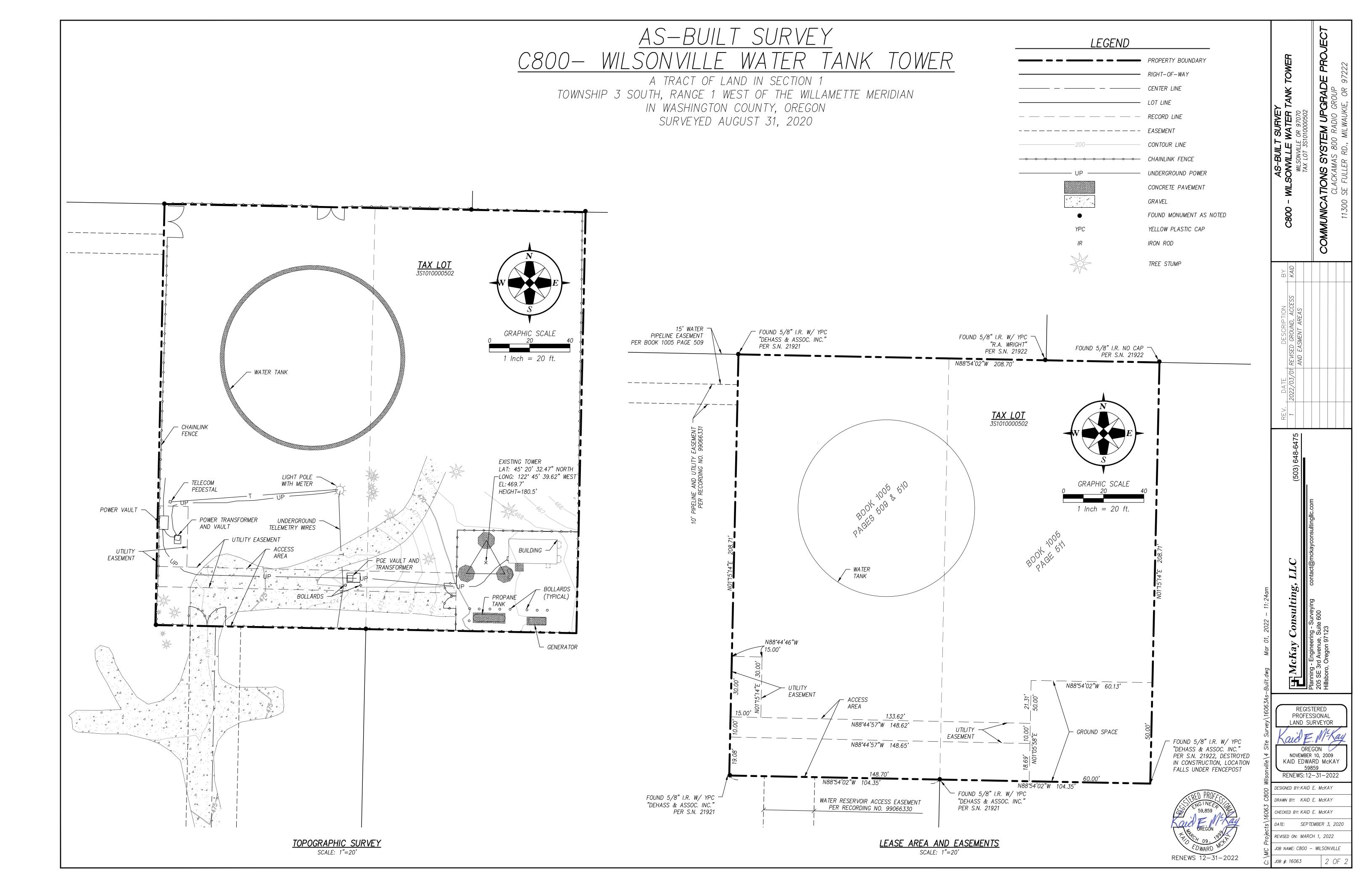
CHECKED BY: KAID E. McKAY

DATE: SEPTEMBER 3, 2020

REVISED ON: MARCH 1, 2022

JOB NAME: C800 - WILSONVILLE

JOB #: 16063 1 0F



GENERAL NOTES:

- DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSED ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE INSTALLATION AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND STANDARDIZED DETAILS THAT REQUIRE MODIFICATIONS DUE TO ACTUAL FIELD CONDITIONS AND REQUIREMENTS MUST BE SUBMITTED TO AND APPROVED BY OWNERS REPRESENTATIVE PRIOR TO START OF WORK.
- PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIEY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND 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 IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, SAFETY, AND PROCEDURES 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 THE 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 CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT ONLY IF THE TITLE SHEET IS STAMPED IN RED INK "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S/ENGINEER'S SIGNED WET STAMP
- THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES. THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THE CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE
- THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING CONSTRUCTION AND REPAIR ALL DAMAGES TO EQUAL OR BETTER NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER OF ANY DAMAGE TO THE BUILDING SITE OR ANY ADJACENT STRUCTURES AROUND THE PROJECT. THE OWNERS REPRESENTATIVE SHALL BE SOLE AND FINAL JUDGE AS TO THE QUALITY OF THE REPAIRED CONSTRUCTION. ANY ADDITIONAL MODIFICATIONS WHICH MUST BE MADE SHALL BE MADE AT THE CONTRACTOR'S EXPENSE
- WHERE NEW PAVING, CONCRETE SIDEWALKS OR PATHS MEET EXISTING CONSTRUCTION, THE CONTRACTOR SHALL MATCH THE EXISTING PITCH, GRADE, AND ELEVATION SO THE ENTIRE STRUCTURE SHALL HAVE A SMOOTH TRANSITION.
- THE CONTRACTOR SHALL MODIFY THE EXISTING FLOORS, WALL, CEILING, OR OTHER CONSTRUCTION AS REQUIRED TO GAIN ACCESS TO AREAS FOR ALL MECHANICAL. PLUMBING FLECTRICAL OR STRUCTURAL MODIFICATIONS. WHERE THE EXISTING CONSTRUCTION. DOORS, PARTITIONS, CEILING, ETC., ARE TO BE REMOVED, MODIFIED, OR REARRANGED OR WHERE THE EXPOSED OR HIDDEN MECHANICAL FLECTRICAL SYSTEMS ARE ADDED OR MODIFIED THE GENERAL CONTRACTOR SHALL REPAIR PATCH AND MATCH ALL EXISTING CONSTRUCTION AND FINISHES OF ALL FLOORS WALLS AND CEILINGS. WHERE CONCRETE MASONRY CONSTRUCTION IS MODIFIED. THE CONTRACTOR SHALL TOOTH IN ALL NEW CONSTRUCTION TO MATCH THE EXISTING BOND. WHERE CONCRETE CONSTRUCTION IS MODIFIED. THE CONTRACTOR SHALL VERIFY THE EXACT DETAILS TO BE USED FOR CONSTRUCTION. ALL WORK SHALL BE COVERED UNDER THE GENERAL CONTRACT
- IF CONTRACTOR OR SUBCONTRACTOR FIND IT NECESSARY TO DEVIATE FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUBCONTRACTOR'S RESPONSIBILITY TO PROVIDE THE PROJECT MANAGER WITH 4 COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.
- CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
- THIS IS AN ESSENTIAL FACILITY THEREFORE SHALL STRICTLY MEET ALL APPLICABLE CODE AND JURISDICTIONAL REQUIREMENTS

GENERAL NOTES CONTINUED:

- THE CONTRACTOR SHALL PERFORM WORK DURING SITE/PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
- SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHAL APPROVED MATERIALS AS APPLICABLE TO THIS FACILITY AND OR PROJECT SITE
- CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY LOCATES, SCHEDULING, COORDINATING SPECIAL AND BUILDING DEPARTMENT INSPECTIONS.
- ROUTING OF ALL CONDUITS, CABLES, CABLE TRAYS ETC ARE INDICATED AS PROPOSED LOCATION ONLY. CONFIRM THE EXACT LOCATION AND ROUTING WITH THE ON SITE PROJECT MANAGER PRIOR TO STARTING WORK

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60 DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD (LINO)
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST EARTH - 3 IN. CONCRETE EXPOSED TO EARTH OR WEATHER: #6 AND LARGER2 IN. #5 AND SMALLER & WWF
- A 1/2" TROWELED RADIUS SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE (UNO). HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MFR RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN THE ELEVATED SLAB
- INSTALLATION OF CONCRETE EXPANSION AND WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.

1-1/2 IN

FLOAT SURFACE SHALL BE A SMOOTH FINISH. SURFACE SHALL BE FREE OF ALL OBVIOUS DEPRESSIONS. SURFACE SHALL BE SLOPED AT 2% TO PROMOTE DRAINAGE AWAY FROM

SITE WORK NOTES:

- RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY UNLESS OTHERWISE REQUIRED TO BE LEFT AS DEFINED BY LAND/PROPERTY OWNER
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT, EQUIPMENT SHELTER, GENERATOR, FUEL TANK, TOWER AREAS, AND
- 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
- THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO THE CRUSHED STONE APPLICATION. FABRIC USE AS REQUIRED.
- ALL APPLICABLE LOCATES SHALL BE PERFORMED PRIOR TO TO ANY EXCAVATION OR SITE GRADING. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES. WHICH INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE REMOVED AND SHALL BE CAPPED PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING.
- THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING, DRIVEWAY OR CRUSHED STONE, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH AS SPECIFIED IN THE SPECIFICATION LANDSCAPE WORK
- BEDDING MATERIAL FOR UTILITY LINES, CULVERTS AND PIPING: CLEAN SAND, MEDIUM TP COARSE, SUB ROUNDED NATURAL RIVER OR BANK SAND, WASHED, FREE OF SILT OR CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, AND ORGANIC MATTER: GRADED IN ACCORDANCE WITH THE FOLLOWING GRAIN SIZE DISTRIBUTION

SIEVE SIZE	PERCENT PASSING
	100
NO. 4 MESH	60-90
NO. 8 MESH	0-45
NO. 16 MESH	0-25
NO. 100 MESH	0-2
NO. 200 MESH	0-2

BMP'S FOR TEMPORARY EROSION/SEDIMENTATION CONTROL SHALL BE IMPLEMENTED PER LOCAL CITY OR COUNTY GUIDELINES AND PER PLAN IF APPLICABLE

SITE WORK NOTES CONTINUED:

- ALL SITE DESIGN AND CONSTRUCTION MUST COMPLY WITH THE MOST CURRENT VERSION OF R56 STANDARDS AND ALIGNED WITH R56 GUIDELINES AS TECHNICALLY APPLICABLE. EACH SITI MUST PASS AN R56 AUDIT OR PM APPROVED BEFORE IT SHALL BE CONSIDERED COMPLETE AND ACCEPTED
- IF INADVERETENT DISCOVERIES OF NATIVE AMERICAN CULTURAL MATERIALS OR HUMAN REMAINS ARE MADE DURING CONSTRUCTION, ALL WORK SHOULD CEASE AND POTENTIALLY AFFECTED TRIBES, AS WELL AS THE STATE HISTORIC PRESERVATION OFFICE, SHOULD BE NOTIFIED IMMEDIATELY.

OWER/POLE NOTES:

- ALL ANTENNAS, LINES AND RELATED INSTALLATION HARDWARE TO BE PROVIDED BY THE LAND MOBILE COMMUNICATIONS PROVIDER
- ALL HARDWARE (NUTS AND BOLTS) BE TIGHTENED AND TORQUED IN ACCORDANCE WITH THE TOWER MANUFACTURER'S AND STRUCTURAL ENGINEER'S SPECIFICATIONS.
- VERIFICATION THAT THE TOWER/POLE CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS
- PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS. ANTENNA COAX CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS.

R56 NOTES:

ALL SITE DESIGN AND CONSTRUCTION MUST COMPLY WITH THE MOST CURRENT VERSION OF R56 STANDARDS AND ALIGNED WITH R56 GUIDELINES AS TECHNICALLY APPLICABLE. SITE MUST PASS AN R56 AUDIT BEFORE IT SHALL BE CONSIDERED COMPLETE AND ACCEPTED.

ATTENTION (OREGON SITES ONLY):

CALL 1-800-332-2344 48 HOURS BEFORE YOU DIG. OREGON LAW REQUIRES YOU TO FOLLOW OAR 952-001-0010 THRU 952-001-0090, COPIES ARE AVAILABLE AT THE OREGON UTILITY NOTIFICATION CENTER 503-232-1987

DESIGN LOADS:

SYMBOLS LEGEND

KEY NOTE DETAIL

REFERENCE ELEVATION

REVISION

REFERENCE

CHAINLINK FENCE ---

CEDAR FENCE

POWER

Λ

1

(3) (C-4)

PRE-FABRICATED SHELTER DESIGN BY OTHERS - PREFABRICATED STRUCTURES LOCATED IN OR BEING SHIPPED INTO OREGON SHALL REGISTER WITH THE STATE OF OREGON BUILDING CODES DIVISION AND APPROVED WITH STATE INSIGNIA (GOLD SEAL)

WIND DESIGN DATA -ULTIMATE DESIGN WIND SPEED: 130 MPH RISK CATEGORY: WIND EXPOSURE INTERNAL PRESSURE COEFFICIENT: 0.18± DESIGN WIND PRESSURES WIND LOAD HORIZONTAL (MWFRS):18.36 PSF WIND LOAD (UPLIFT) (MWFRS): 39.00 PSF WIND LOAD HORIZONTAL (COMPONENT AND CLADDING): 35.09 PSF EARTHQUAKE DESIGN DATA -RISK CATEGORY: PER GEO. RPT. 11/23/16) SEISMIC IMPORTANCE FACTOR: 1.5 MAPPED SPECTRAL RESPONSE ACCEL-ERATION PARAMETERS; 0.938 0.406 SITE CLASS: DESIGN SPECTRAL RESPONSE ACCEL-**ERATION PARAMETERS:** 0.641 0.378 SEISMIC DESIGN CATEGORY BASIC SEISMIC FORCE-RESISTING SYSTEM BEARING WALL DESIGN BASE SHEAR 0.1W SEISMIC RESPONSE COFFFICIENT 0.3 RESPONSE MODIFICATION COEFFICIENT: 2.00 ANALYSIS PROCEDURE USED: FOUIVALENT LATERAL FORCE PROCEDURE GEOTECHNICAL INFORMATION - DESIGN LOAD-BEARING VALUES OF SOIL: 2000 PSF (GEO. RPT.

100 ROOM NUMBER

– P – — P – — P –

SECTION REFERENCE

- ELEVATION DATUM POINT

"AS-BUILT

THE "AS-BUILT" INFORMATION ON THIS SHEET WAS PROVIDED BY THE CONTRACTOR. CONDITIONS MAY VARY FROM THESE "AS-BUILT" DRAWINGS.



ABBREVIATIONS LEGEND

A/C	AIR CONDITIONING	MET, MTL	METAL
ADJ	ADJUSTABLE	MFR	MANUFACTURER
AFF	ABOVE FINISH FLOOR	MGR	MANAGER
AGL	ABOVE GRADE LEVEL	MIN	MINIMUM
-			
APPROX	APPROXIMATELY	MISC	MISCELLANEOUS
ASTM	AMERICAN SOCIETY FOR	N	NORTH
	TESTING & MATERIALS	NA	NOT APPLICABLE
AWG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
BLDG	BUILDING	NTS	NOT TO SCALE
BLK	BLOCK	OC, o/c	ON CENTER
BMR	BASE MOBILE RADIO	OD	OUTSIDE DIAMETER
B/S	BUILDING STANDARD	OPG	OPENING
CLG	CEILING	OPP	OPPOSITE
CLR	CLEAR	OHP	OVERHEAD POWER
CONC	CONCRETE	UGP	UNDRGRND POWER
CONST	CONSTRUCTION	OHT	OVERHEAD TELCO
CONT	CONTINUOUS	UGT	UNDRGRND TELCO
DBL	DOUBLE	PLYWD	PLYWOOD
		PR	PAIR
DIA, Ø	DIAMETER	PROJ	PROJECT
DIAG	DIAGONAL	PROP	PROPERTY
DIM	DIMENSION	PT	PRESSURE TREATE
DN	DOWN	REQ'D	
DTL, DETL	DETAIL		REQUIRED
DWG	DRAWING	RM	ROOM
E	EAST	R.O.	ROUGH OPENING
EA	EACH	S	SOUTH
EL, ELEV	ELEVATION	SHT	SHEET
ELECT	ELECTRICAL	SIM	SIMILAR
EQ	EQUAL	SPEC	SPECIFICATION
		SQ	SQUARE
EQUIP	EQUIPMENT	SS	STAINLESS STEEL
E.W.	EACH WAY	STL	STEEL
EXIST	EXISTING	STRUCT	STRUCTURAL
EXT	EXTERIOR	SUSP	SUSPENDED
FIN	FINISH	S.V.	SHEET VINYL
FLUOR	FLUORESCENT	THRU	THROUGH
FLR	FLOOR	TNND	TINNED
FT	FOOT		
GA	GAUGE	T.O.C.	TOP OF CONCRETE
GALV	GALVANIZE(D)	T.O.M.	TOP OF MASONRY
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GRND	GROUND	UBC	UNIFORM BUILDING
GWB		l	CODE
	GYPSUM WALL BOARD	U.N.O.	UNLESS NOTED
GYP BD	GYPSUM BOARD		OTHERWISE
HARD'WD	HARDWOOD	VERT	VERTICAL
HORIZ	HORIZONTAL	VIF	VERIFY IN FIELD
HR	HOUR	VT	VINYL TILE
HT	HEIGHT	W	WEST
HVAC	HEATING, VENTING AND	W/	WITH
	AIR CONDITIONING	WIN	WINDOW
I.D.	INSIDE DIA.	W/O	WITHOUT
IN	INCH	WP	WATERPROOF
INFO	INFORMATION	XP Z	ANGLE
INSUL	INSULATION		
INT	INTERIOR	&	AND
LB(S)	POUND(S)	Q.	CENTER LINE
		I -	
LNA	ANTENNA AMPLIFIER	የ	PROPERTY LINE
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OVERHEAD POWER

POWER/TELCO

TELCO

GAS

WATER

COAX

CENTERI INF

FASEMENT

PROPERTY LINE

SCO PADIO GDOUDS

CLACKAMAS 11300 SE Fuller Rd Milwaukie, Oregon 97222 (503) 780-4806

PROJECT INFORMATION:

WILSONVILLE

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

DATE	RELEASE
7/21/17	PRELIM. CONSTRUCTION SUBMITTAL
8/18/17	FINAL CONSTRUCTION SUBMITTAL
9/21/17	UPDATED GEN. & PROP. TANK SHT
1/12/18	FINAL CONSTRUCTION SUBMITTAL
2/23/18	FINAL CONSTRUCTION SUBMITTAL
6/20/19	FINAL CONSTRUCTION SUBMITTAL
7/9/19	FINAL CONSTRUCTION SUBMITTAL
7/18/19	FINAL CONSTRUCTION SUBMITTAL
7/23/19	FINAL CONSTRUCTION SUBMITTAL
9/12/19	PLAN CHECK #1
2 1/4/21	AS-BUILTS
3 5/16/22	AS-BUILTS (CLIENT REV.)
DDAWING INC	DDMATION.

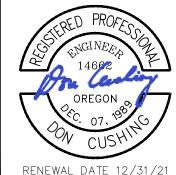
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Don Cushing Associates Civil Engineers

107 SE WASHINGTON STREET SHITE 265 PORTLAND, OR 97214 (503) 387-5331 www.cushing-engr.con

LICENSURE:



SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

G-1

STRUCTURAL OBSERVATION PROGRAM

- THE OWNER SHALL EMPLOY THE ENGINEER REGISTERED IN THE STATE OF OREGON WHO IS RESPONSIBLE FOR THE STRUCTURAL DESIGN TO DO STRUCTURAL OBSERVATION. 72 HOURS NOTICE IS REQUIRED FOR MEETINGS AND OBSERVATIONS.
- NAME OF ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN: JESSE J. JARAMILLO. REGISTRATION NUMBER OF ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN: 51361PE
- THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL OBSERVATION THE CONTRACTOR, AND APPROPRIATE SUBCONTRACTORS SHALL HOLD A PRE CONSTRUCTION MEETING TO REVIEW THE DETAILS OF THE STRUCTURAL SYSTEM TO BE STRUCTURALLY OBSERVED.
- THE FOLLOWING STRUCTURAL ELEMENTS ARE TO BE OBSERVED (BUT ARE NOT LIMITED TO) PRIOR TO THE FOUNDATION INSPECTION BY THE BUILDING DEPARTMENT AND THE PLACEMENT OF THE CONCRETE FOR THE FOUNDATION: a.) SHELTER FOOTING/SLAB SIZES AND REINFORCEMENT PLACEMENT
 b.) GENERATOR SUPPORT SLAB SIZES AND REINFORCEMENT PLACEMENT
 c.) PROPANE TANK SUPPORT SLAB SIZES AND REINFORCEMENT PLACEMENT
- ENGINEER OF RECORD OR THE DESIGNATED ENGINEER SHALL SUBMIT REPORTS ON THE FORM PRESCRIBED BY THE GOVERNING JURISDICTION.

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R	EQUIRED	SPECIAL INSPE		or WIND F	RESISTANCE			
		INSPECTION						
SYSTEM or MATERIAL	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY		REMARKS			
	REFERENCE	REFERENCE	Continuous	Periodic				
NALING, BOL TING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS	1705.10.1			X (a)	SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS AND DIAPHRAGMS WHERE THE FASTENER SPACING IS MORE THAN 4 INCHES ON CENTER OR FOR COLD-FORMEO CONSTRUCTION WHERE THE SHEATHIN IS GYPSUM BOARD, FIBERBOARD, OR WOOD STRUCTURA PANIEL OR STEEL SHEAFT ON ONE SIDE ONLY AND			
FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WIND-FORCE-RESISTING SYSTEM.	1705.10.1		х		FASTENER SPACING IS MORE THAN 4" O.C.			
COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	1705:10.2			X (a)	SPECIAL INSPECTIONS ARE REQUIRED FOR WELDING OPERATIONS OF ELEMENTS OF THE MAIN WIND FORCE-RESISTING SYSTEM. SPECIAL INSPECTION IS REQUIRED FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE MAIN WIND-FORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS AND HOLD DOWNS			
ROOF CLADDING AND WALL CLADDING	1705.10.3			X (a)				

TABLE 9						
STRUCTURAL OBSERVATION						
	INSPECTION FREQUENCY					
SYSTEM or MATERIAL	IBC CODE	CODE or STANDARD	FREQ	UENCY	REMARKS	
	REFERENCE	REFERENCE	Continuous	Periodic		
AS REQUIRED BY THE DESIGN PROFESSIONAL	1704.5					
SEISMIC RESISTANCE	1704.5.1			X (a)	SEE COMMENTARY	
WIND REQUIREMENTS	1704.5.2			X (a)	SEE COMMENTARY	

	REQUIR	TABL DISTRUCTURAL		SPECTION	s
	195PEC1			Becr	1
SYSTEM or MATERIAL	IBC CODE REFERENCE	CODE × STANBARD RETERENCE	Continuous	Periodic	REWARKS
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\$CO RADIO Milwaukie, Cregon 97222 GROUD (503) 780-4806

PROJECT INFORMATION:

WILSONVILLE **TANK**

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

DATE	RELEASE
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DD AMING INC	ODMATION.

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LICENSURE:



RENEWAL DATE 12/31/21

SHEET TITLE:

SPECIAL INSPECTIONS

SHEET NUMBER:

G-2

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TESTING OF COMPACTED FILL MATERIALS	1803				TESTING PER GEOTECHNICAL REPORT				
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		PROCESS MECHA	NICAL COM	PONENTS					
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PTIOR ME OF THERMALLY CUT SURFACES OF REAMCOPES ALO ACCESS HOLES AT WILEST SPLICES AND CONNECTIONS WILEST THE RIVACE THICKNESS DOCESS 1 12" FOR ROULES SHAPES OR THE WEB THICKNESS EXCEEDS 1 1/2" FOR BUILTUP SHAPES	1705 13 3	ASC 341 J6 20 AA/S D1 8 AA/S D1 1	FACH LOCATION		PROVIDED TO THE CONTRACTOR AS PART OF THE DOCUMENTS AND SHOULD BE CLEARLY INDEPENDENCE SUCH A SCIENCE SHOULD SHOULD BE COMMENDS THAT ASO 341 CHAPTER COUNTRY CONTROL AND COUNTRY ASSURANCE DE ADDOFTED AS SHIRE CLUBS COMMENTARY VALUE BE HELPPU. TO ENGINEERS SPEC FYING PROSECT PLANS				
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PROJECT INFORMATION:

C-4 WILSONVILLE TANK

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

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3	5/16/22	AS-BUILTS (CLIENT REV.)

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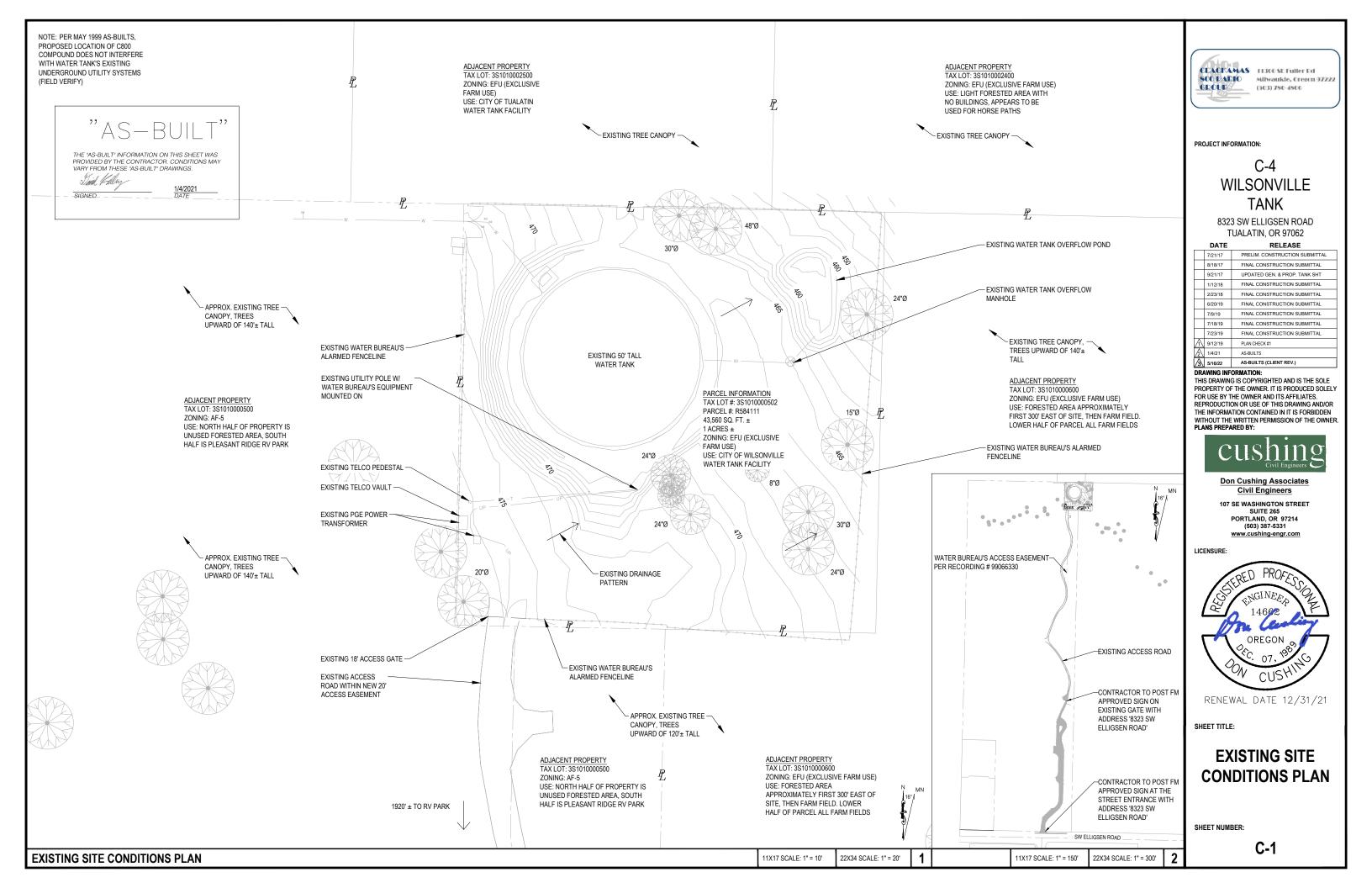
RENEWAL DATE 12/31/21

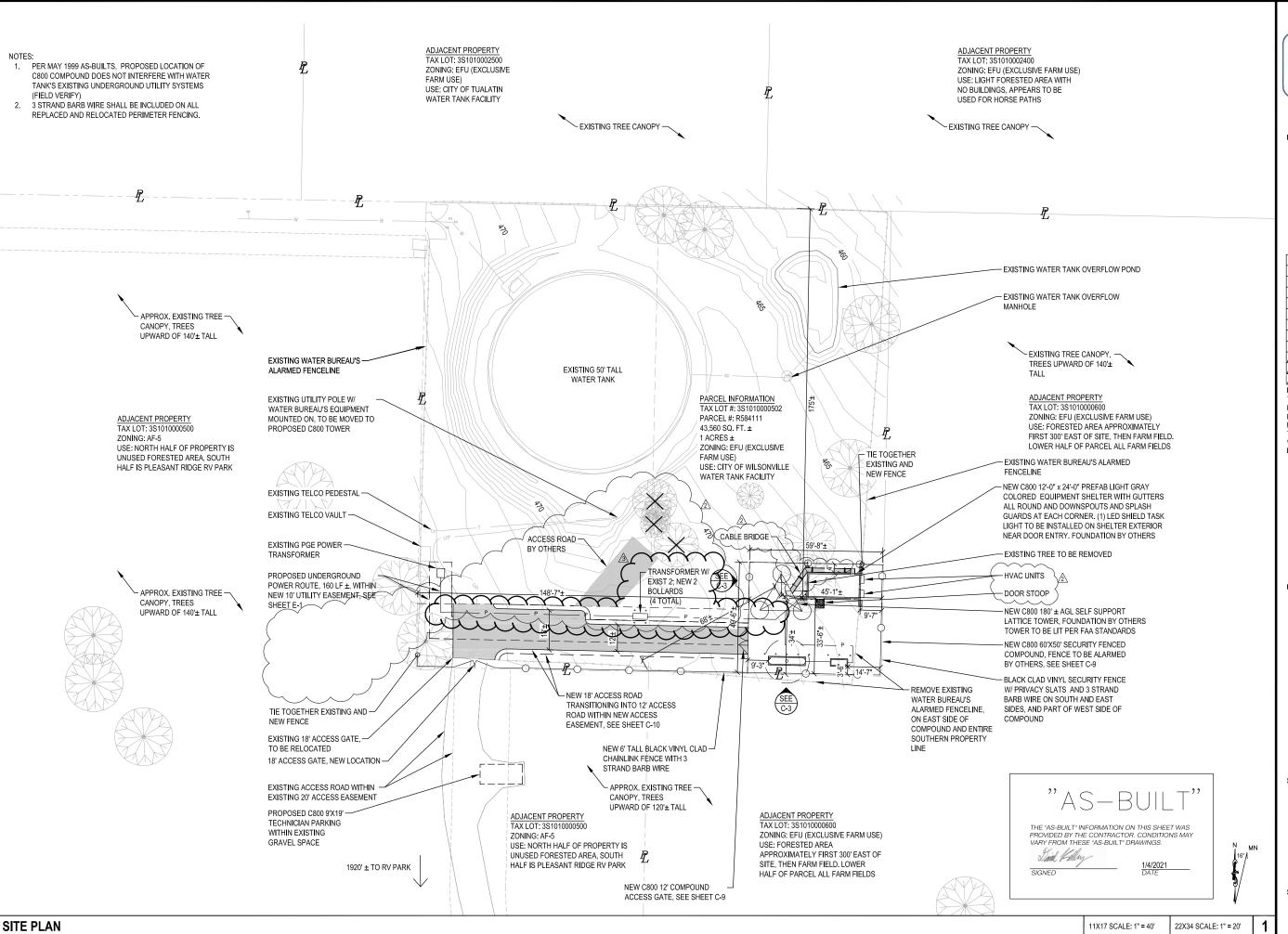
SHEET TITLE:

SPECIAL INSPECTIONS

SHEET NUMBER:

G-3







PROJECT INFORMATION:

C-4 WILSONVILLE TANK

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

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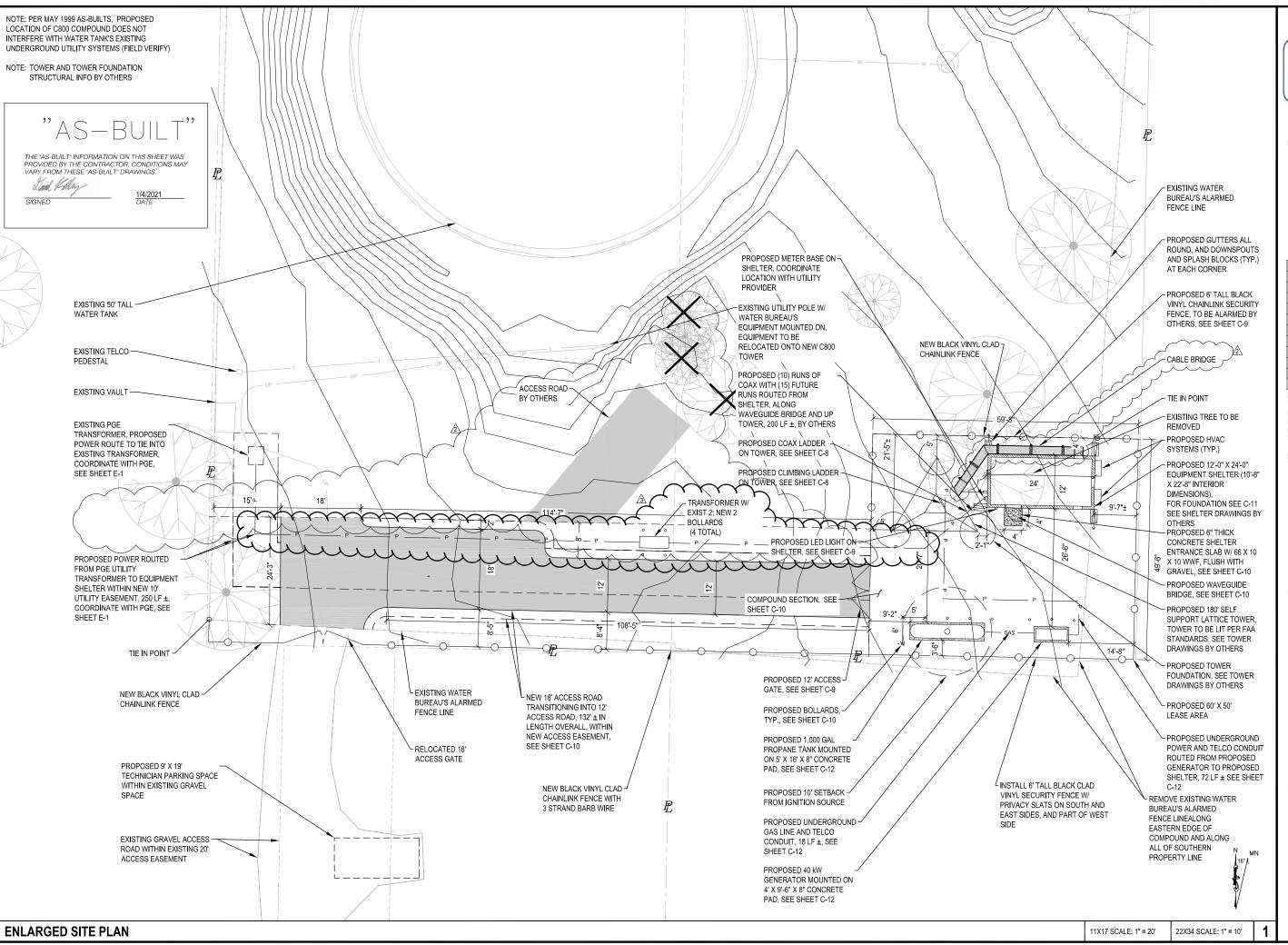
RENEWAL DATE 12/31/21

SHEET TITLE:

PROPOSED SITE DEVELOPMENT PLAN

SHEET NUMBER:

C-1.1





Allwankie, Cregon 97222 (503) 750-4500

PROJECT INFORMATION:

C-4 **WILSONVILLE TANK**

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

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LICENSURE:

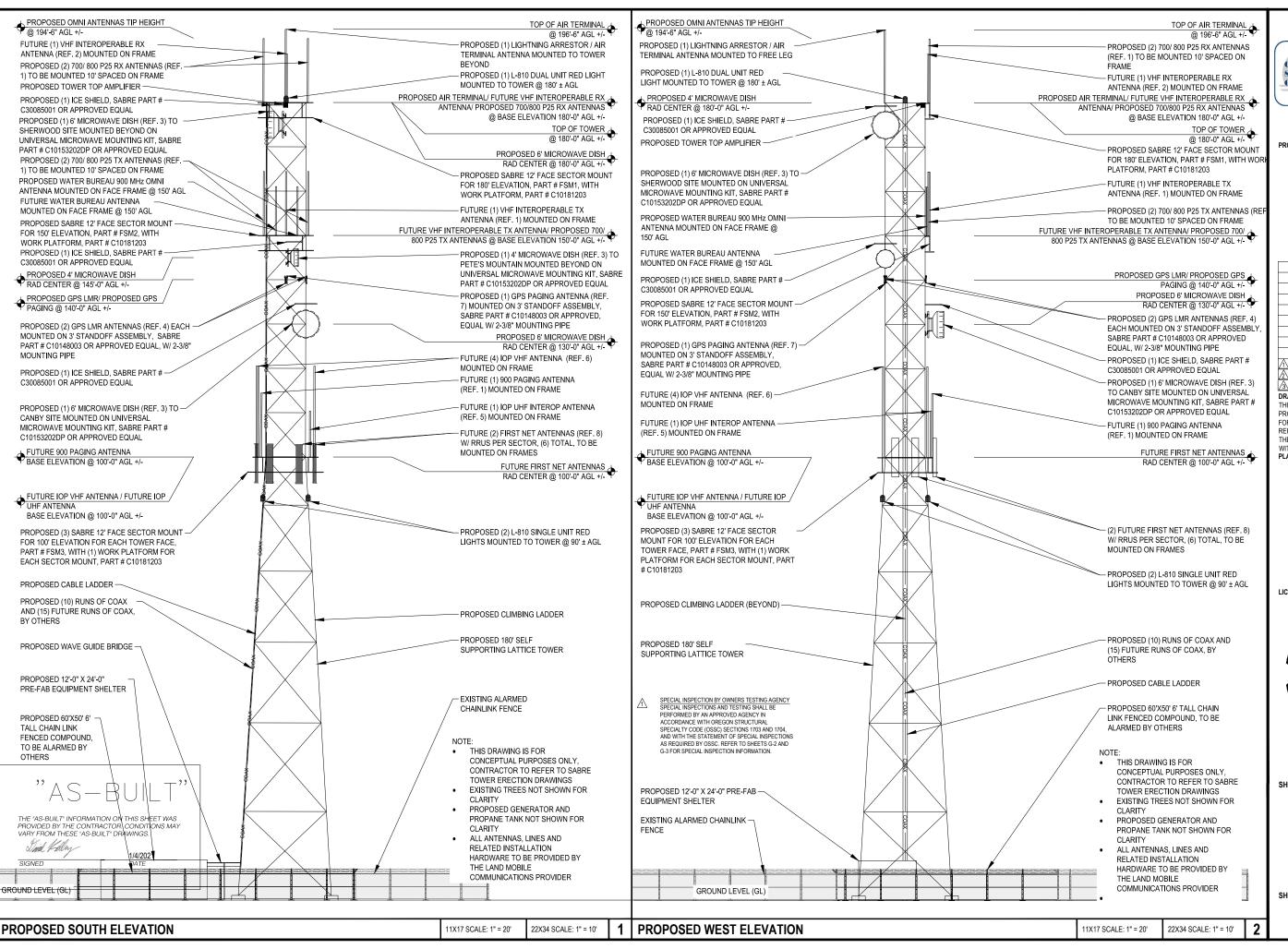


RENEWAL DATE 12/31/21

SHEET TITLE:

ENLARGED SITE PLAN

SHEET NUMBER:





PROJECT INFORMATION:

C-4 WILSONVILLE TANK

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

DATE	RELEASE
7/21/17	PRELIM. CONSTRUCTION SUBMITTAL
8/18/17	FINAL CONSTRUCTION SUBMITTAL
9/21/17	UPDATED GEN. & PROP. TANK SHT
1/12/18	FINAL CONSTRUCTION SUBMITTAL
2/23/18	FINAL CONSTRUCTION SUBMITTAL
6/20/19	FINAL CONSTRUCTION SUBMITTAL
7/9/19	FINAL CONSTRUCTION SUBMITTAL
7/18/19	FINAL CONSTRUCTION SUBMITTAL
7/23/19	FINAL CONSTRUCTION SUBMITTAL
9/12/19	PLAN CHECK #1
1/4/21	AS-BUILTS
5/16/22	AS-BUILTS (CLIENT REV.)
	7/21/17 8/18/17 9/21/17 1/12/18 2/23/18 6/20/19 7/9/19 7/18/19 9/12/19 1/4/21

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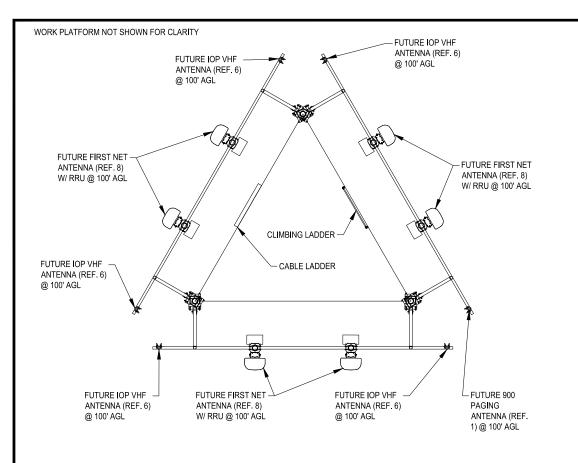


RENEWAL DATE 12/31/21

SHEET TITLE:

ELEVATIONS

SHEET NUMBER:



GENERAL NOTES
ALL ANTENNAS, LINES AND RELATED
INSTALLATION HARDWARE TO BE
PROVIDED BY THE LAND MOBILE
COMMUNICATIONS PROVIDER.

GPS PAGING
ANTENNA
(REF. 4) @ 140' AGL

CABLE LADDER

GPS LMR ANTENNA
CABLE LADDER

GPS LMR ANTENNA
(REF. 7)

GPS LMR ANTENNA
(REF. 7)

GPS LMR ANTENNA
(REF. 4) @ 140' AGL

NOTE: TOWER AND TOWER FOUNDATION STRUCTURAL INFO BY MN OTHERS - MICROWAVE MOUNT (TYP.) PROPOSED 6' MICROWAVE ANTENNA (REF. 3) PROPOSED 4' W/ STIFF ARM @ MICROWAVE 180' AGL RC, ANTENNA (REF. 3) W/ AZIMUTH 260° (TO STIFF ARM @ 145 SHERWOOD SITE) AGL RC, AZIMUTH 87.78° (TO PETE'S MOUNTAIN SITE) - CLIMBING LADDER CABLE LADDER -PROPOSED 6' MICROWAVE ANTENNA (REF. 3) W/ STIFF ARM @ 130' AGL RC, AZIMUTH 132° (TO CANBY SITE) 700/ 800 P25 TX 700/ 800 P25 TX ANTENNA (REF. 1) ANTENNA (REF. 1) @ 150' AGL @ 150' AGL INTEROPERABLE TX

ANTENNA (REF. 1) @

150' AGL

MICROWAVE ICE SHIELDS NOT SHOWN FOR CLARITY, SEE SHEET C-8

WORK PLATFORM NOT SHOWN FOR CLARITY

AZIMUTH DIAGRAM (TX ELEVATION)

SCALE: N.T.S.

2 AZIMUTH DIAGRAM (140' ELEVATION)
SCALE: N.T.S.

WORK PLATFORM NOT SHOWN FOR CLARITY

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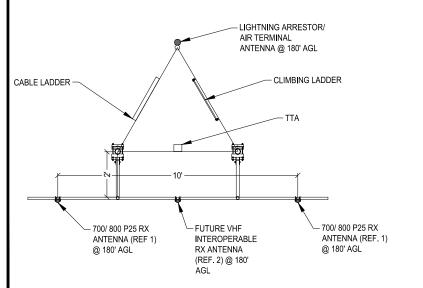
June Allay

SIGNED

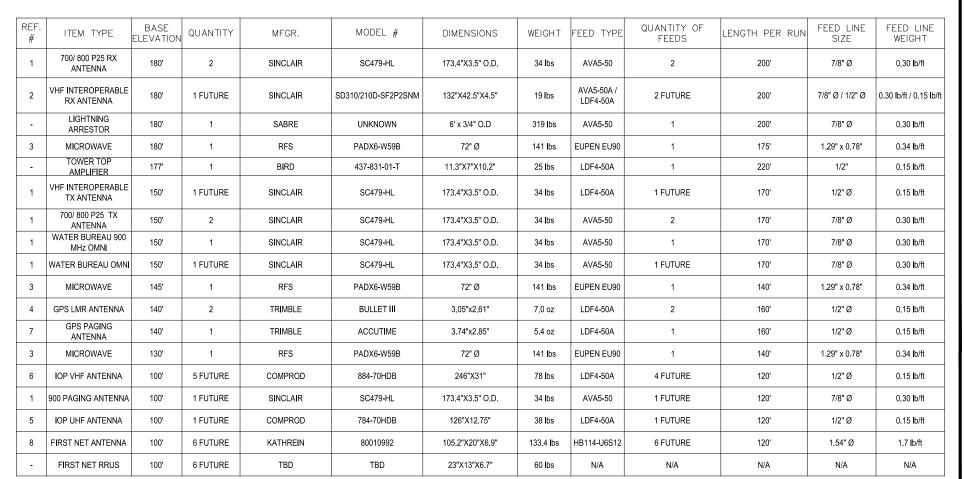
1/4/2021
DATE

AZIMUTH DIAGRAM (100' ELEVATION)

SCALE: N.T.S



AZIMUTH DIAGRAM (RX ELEVATION)



CLACEAMAS 113C0 SE Fuller Ed Milwaukle, Cregon 97222 (563) 780-4866

PROJECT INFORMATION:

C-4 WILSONVILLE TANK

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

RELEASE
PRELIM. CONSTRUCTION SUBMITTAL
FINAL CONSTRUCTION SUBMITTAL
UPDATED GEN. & PROP. TANK SHT
FINAL CONSTRUCTION SUBMITTAL
PLAN CHECK #1
AS-BUILTS
AS-BUILTS (CLIENT REV.)

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RENEWAL DATE 12/31/21

SHEET TITLE:

RF PLAN & SCHEDULE

SHEET NUMBER:

C-5

TOWER MOUNTED EQUIPMENT SPECIFICATION CHART

SCALE: N.T.S.

TOWER LOADING - RFDS DATED 8/9/19



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Trial Kally

1/4/2021

	700/800 P25	TTATest	Future VHF	900 Paging Future	IOP VHF Future	IOP UHF Future	GPS Paging	Proposed Cor GPS LMR		Antennas Platfo	m Mount Future	Water Bureau	Water Bureau	Microwave	Microwave	Microwave	Beacon	Air Term
quipment Manufacturer																		
Equipment Model #							1							11 = 1				
Antenna Data Rx	1)								Alpha	Beta	Gamma	Panel	Omni	Canby	Sherwood	Petes Mtn		
Manufacturer	Sinclair		Sinclair				Trimble	Trimble	Kathrein	Kathrein	Kathrein	Amphenol	Amphenol	RFS	RFS	RFS		Harger
Model	SC479HF1LDFD4NUP		SD310/210D-SF2P2SNM				Accutime	Bullet III	80010992	80010992	80010992		BCD-87010-EDIN	•		+	L-810	CUFATM
Weight (lbs) Dimensions (inches) (H xWxD)	34		19 (48 w 1/2" ice)				5	5	133.4	133.4	133.4	19	27	141	141	141		43
Wind Load Area (1/2" ice) ft ²	173.4 x 3.5 x 3.5 See Data Sheet		132 x 4.5 See Data Sheet				2.85 x 3.74 N/A	2.61 x 3.05 N/A	105.2 x 20 x 6.9 See Data Sheet	_	See Data Sheet	94.6 x 11.2 x 5.1 See Data Sheet	134 x 2.6 See Data Sheet	72°	72" See Data Sheet	72°		216
Gain (dBd)/(dBi)	9.5/11.65		2 (4.1)				N/A	30	14.3/16.5	14.3/16.5	14.3/16.5	16.5/18.5	10/12.1	38.9 dBi	38.9 dBi	38.9 dBi		
Number of Artennas (Rx)	2		1				1	3	2	2	2	1	1	1	1	1		
Duplex Rx/Tx	N		N.			11 11	N	N	Duplex	Duplex	Duplex	2	2	Yes	Yes	Yes		
RAD Center Rx (ft)	187		185				141	141	100	100	100	100	100	130	165	150		
Mounting Elevation Rx (ft)	180-Frame	180-Frame	180-Frame				140	140	100	100	100	100	100	130	165	150	180/90	180
Reference Number	1,2	3.	4				20	21/22/TBD	14/15	16 / 17	18/19		12	24	23	28	26/27	25
Azimuth °TN			0				0	0	90	210	330	180	0	132	260	137		
Polarity	11		Vertical				Н	Н	X	X	X	Vertical	Vertical					
Horizontal Beamwidth			360				360	360	65	65	65	63	360	1.7	1.7	1.7		
Electrical / Mechanical Tilt °			0			1			0	0	0	0	0					
Port Number Location (Rx)																		
Tag Identifications																		
Antenna Data Tx																		
Manufacturer	Sinclair		Sinclair	Amphenol	Comprod	Comprod												
Model	SC479HF1LDFD4NUP		SC479-HL	BCD-87010-EDIN	884-70HDB	784-70HDB		1			1							
Weight (lbs)	34		34 (66 w/ 1/2" ice)	27	78	38												
Dimensions (inches) (H xWxD)	173.4 x 3.5 x 3.5	1	173.4 x 3.5 x 3.5	134 x 2.6	246 x 41	125 x 12.75	1											
Wind Load (@100mph)	See Data Sheet		3.25	125	See Data Sheet	See Data Sheet												
Gain (dBd)/(dBi)	9.5		9.5	10dBd (12.1 dBi)	7/9.15	7/9.15					4							
Number of Antennas (Tx)	2		1	1	3	1												
RAD Center Tx (ft)	157		157	107	110	105												
Mounting Elevation Tx (ft)	150-Frame		150-Frame	100-Frame	100-Frame	100-Frame	-											
Reference Number	5,6		7	8	9//10/11	13												
Azimuth °TN			0	0	0	0												
Polanty			Vertical	Vertical	Vertical	Vertical												
Horizontal Beamwidth			360	360	360	360												
Electrical / Mechanical Tit *		7 - 7	0	0	0	0												
Port Number Location (Rx)																		
Tag Identifications	The man par	****	F.4181F	200 D	IODINEE A	IODINEE	0000	0001110					****					
Feed Lines Rx	700/800 P25	TTA Test	Future VHF	900 Paging Future			GPS Paging	GPS LMR	_	x/Tx Antennas Pia		Water Bureau	Water Bureau	Microwave	Microwave	Microwave		
Manufacturer	Commscope	Commiscope	Commscope		Commscope	Commscope	Commscope	Commscope	RFS	RFS	RFS	Commiscope	Commscope	Eupen	Eupen	Eupen		
Number of Feeders	2	1	2		3	1	1	3	1	1	1	1	1	1	1	1		
Feeder Type	AVA5-50	LDF4-50A	AVAS-50A / LDF4-50A		LDF4-50A	LDF4-50A	LDF4-50A	LDF4-50A	HB114-U6S12		HB114-U6S12	AVA5-50	AVA5-50	EU90	EU90	EU90		
Feeder Length (ft)	200	220	200/200		120	120	160	160	120	120	120	120	120	160	185	185		
Number of Jumpers	2	2	1					0	145:11 475.0	180-141 - 676-0	100-01 670-0	1 (054.504	1		0			
Jumper Type	LDF4-50A	None	LDF4-50A		None	None	None	None	vveignt = 1.7 lb/f	t vveignt = 1.7 lb/ll	Weight = 1.7 lb/ft		LDF4-50A	None	None	None		
Jumper Length (ft)	10 109-0501W-A(Transtector)	10	10			-						10	10		_	-		
Lightening Arrestor Too Montifesting (Leheling)		VIVICO	CWCDIV		G-W-B-R/V/G/O	CWDD	VWVC	V-W-Y-R/V/TBD	OWED	OWDV	OWDO	DWCD	DWOW	AZIMIN D	200000	MANA		-
Tag Identification (Labeling) Entry Port Location	V-W-G-R / V-W-G-V	V-W-G-G	G-W-G-R / V		O-W-D-K/WGIU	G-W-B-B	V-W-Y-G	W-MA-1-MOVIED	O-W-B-R	0-W-B-V	0-W-B-G	B-W-G-R	B-W-G-V	V-W-V-R	V-W-V-V	V-W-V-V		
Cable Number																		
Overall Insertion Loss									1		1							
Feed Lines Tx																		
Manufacturer	Commscope		Commscope	Commscope					1							1		
Number of Feeders	2		1	1												1		
Feeder Type	AVA5-50		LDF4-50A	AVA5-50														
Feeder Length (ft)	170		170	120														
Number of Jumpers	2		110	1														
Jumper Type	LDF4-50A		None	LDF4-50A														11
Jumper Length (ft)	10			10														
Lightening Arrestor	TSX-DFM-BF(Transtector)	7 - 7																
Tag Identification (Labeling)	V-W-R-R / V-W-R-V		G-W-R-R	V-W-R-G														
Entry Port Location																		
Cable Number																		
Overall Insertion Loss		7 = 1																
Miscellaneous Tower Hardware																		
	Bird										1							
Tower Top Amplifier (TTA) Manufacturer																		
	437-83I-01-T																	
(TTA) Model																		
	437-83I-01-T 25 / 11.3 x 7 x 10.2 1 / 177'																	
(TTA) Model (TTA) Weight (lbs) / Dimensions (inches) (TTA) Quantity / Mounting Elevation	25/11.3 x 7 x 10.2								100 ft	100 ft	100 ft							
(TTA) Model (TTA) Weight (bs) / Dimensions (inches) (TTA) Quantity / Mounting Elevation Remote Radio Head (Elevation)	25/11.3 x 7 x 10.2								100 ft 60	100 ft 60	100 ft							
(TTA) Model (TTA) Weight (lbs) / Dimensions (inches)	25/11.3 x 7 x 10.2								60		•							

Lightening Arrestor



PROJECT INFORMATION:

WILSONVILLE TANK

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

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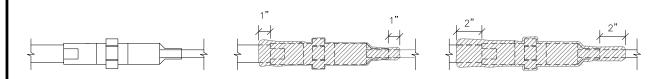
RENEWAL DATE 12/31/21

SHEET TITLE:

RF PLAN & **SCHEDULE**

SHEET NUMBER:

C-5.1



STEP 1

STEP 2

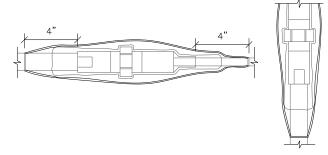
REF. #1

MODEL NUMBER MANUFACTURER SINCLAIR

SCALE: N.T.S.

ANTENNA DETAILS

STEP 3



STEP 4

INSTALLATION NOTES:

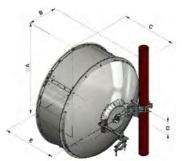
'SCOTCH' 23 ALL-VOLTAGE SPICING TAPE SHOULD BE APPLIED IN SUCCESSIVE, HALF-LAPPED, LEVEL-WOUND LAYERS UNTIL DESIRE BUILDUP IS REACHED. TO ELIMINATE VOIDS IN CRITICAL AREAS, HIGHLY ELONGATE 23 TAPE. STRETCH TAPE IN THESE CRITICAL AREAS JUST SHORT OF ITS BREAKING POINT. DOING SO WILL NOT ALTER ITS PHYSICAL OR ELECTRICAL PROPERTIES. IN LESS CRITICAL AREAS, LESS ELONGATION MAY BE USED. NORMALLY, 23 TAPE IS STRETCHED TO 3/4 OF ITS ORIGINAL WIDTH IN THESE LESS CRITICAL AREAS. ALWAYS ATTEMPT TO HALF-LAP TO PRODUCE A UNIFORM BUILDUP. WHEN USING 23 TAPE FOR SPLICING CABLES FROM 35kV TO 69kV, ALWAYS ELONGATE THE TAPE THROUGHOUT THE ENTIRE SPLICE.

'SCOTCH' VINYL ELECTRICAL TAPE SHALL BE APPLIED IN HALF-LAPPED LAYERS WITH SUFFICIENT TENSION TO PRODUCE A UNIFORM WIND. ON PIGTAIL SPLICES, THE TAPE SHALL BE WRAPPED BEYOND THE END OF THE WIRES AND THEN FOLDED BACK, LEAVING A PROTECTIVE CUSHION TO RESIST CUT-THROUGH. WRAP TAPE UP-HILL, TAPING FROM A SMALLER DIAMETER SURFACE TO A LARGER DIAMETER SURFACE. APPLY THE TAPE WITH NO TENSION ON THE LAST WRAP TO PREVENT FLAGGING.

COAX CABLE WEATHERPROOFING SCALE: N.T.S.

ALL ANTENNAS, LINES AND RELATED INSTALLATION HARDWARE TO BE PROVIDED BY THE LAND MOBILE COMMUNICATIONS PROVIDER.

IMAGE MAY DIFFER FROM ACTUAL MICROWAVE DISH

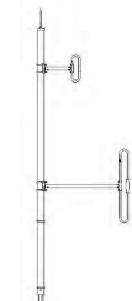


DIMENSIONS IN INCHES					
ANTENNA SIZE, FT A B C D E					
4	50.8	16	30.2	7.2	29.5

REF. # 3	
MODE	L NUM
V/HI D/	1_11\\/_6

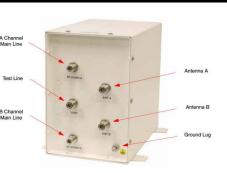
MODEL NUMBER	WEIGHT
VHLP4-11W-6WH/B	71 lbs
MANUFACTURER	DIAMETER
ANDREW	50.8"





	REF. # 2		
WEIGHT 34 lbs		EL NUMBER 0310/210D	
DIMENSIONS 173.4"x3.5"Ø	MANUFACTURER SINCLAIR		1

REF. # 2		
MODEL NUMBER		WEIGHT
SD310/210D		19 lbs
MANUFACTURER		DIMENSIONS
SINCLAIR		132"x42.5"X4.5"



MODEL NUMBER	WEIGHT
437-831-01-T	25 lbs
MANUFACTURER	DIAMETER
BIRD TECHNOLOGIES	11.3"X7"X10.2"

TOWER TOP AMPLIFIER DETAIL SCALE: N.T.S.



REF. # 7		
MODEL NUMBER		WEIGHT
ACCUTIME		5.4 oz
MANUFACTURER		DIMENSIONS
TRIMBLE		3.74"x2.85"

GPS ANTENNA DETAILS SCALE: N.T.S.



REF. #4

MODEL NUMBER

BULLET III

MANUFACTURER

TRIMBLE

REF.#6		
	L NUMBER 4-70HDB	WEIGHT 78 lbs
	JFACTURER DMPROD	DIMENSIONS 246"x31"

A	1
f	A
	Ð

WEIGHT

7 oz

DIMENSIONS

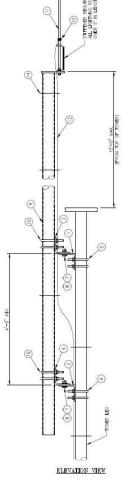
3.05'x2.61"

REF. # 5		
MODEL NUMBER 784-70HDB		WEIGHT 38 lbs
MANUFACTURER COMPROD		DIMENSIONS 126"x12.75"

"AS-BUILT"

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David Kally SIGNED



SEE TOWER DRAWINGS BY OTHERS FOR DETAILS

LIGHTNING ARRESTOR/ AIR **TERMINAL DETAILS**

SCALE: N.T.S.

FIRST NET ANTENNAS



REF. #8	MOUNTING ACCESSORIES SEPARATE		
MODEL NUMBER 80010992		WEIGHT 133.4 lbs	
MANUFACTURER KATHREIN		DIMENSIONS 105.2"X20"X6.9"	
			1



\$00 RADIO Milwaukie, Cregon 97222 GROUP (503) 780-4806

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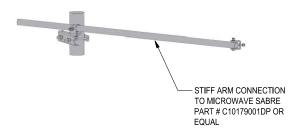
RENEWAL DATE 12/31/21

SHEET TITLE:

RF DETAILS

SHEET NUMBER:



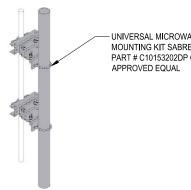


MICROWAVE STIFF ARM DETAIL

MICROWAVE MOUNTING DETAILS

SCALE: N.T.S.

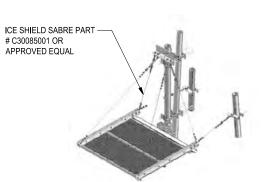
SCALE: N.T.S.



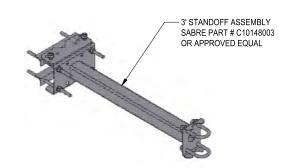
- UNIVERSAL MICROWAVE MOUNTING KIT SABRE PART # C10153202DP OR

> MICROWAVE DISH ICE SHIELD DETAIL SCALE: N.T.S.

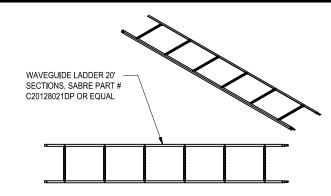
NOT IN USE SCALE: N.T.S.



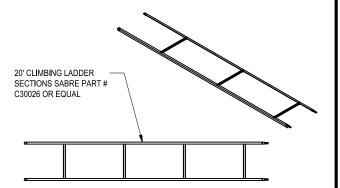
NOT IN USE SCALE: N.T.S.



GPS ANTENNA MOUNTING DETAIL SCALE: N.T.S.



WAVEGUIDE LADDER DETAIL SCALE: N.T.S.



SAFETY CLIMBING LADDER DETAIL SCALE: N.T.S.



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David Kally SIGNED

1/4/2021 DATE



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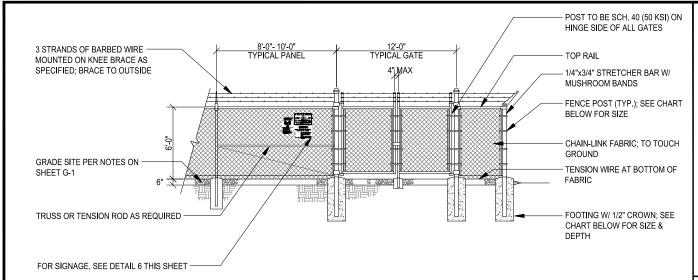


RENEWAL DATE 12/31/21

SHEET TITLE:

TOWER RELATED EQUIPMENT DETAILS I

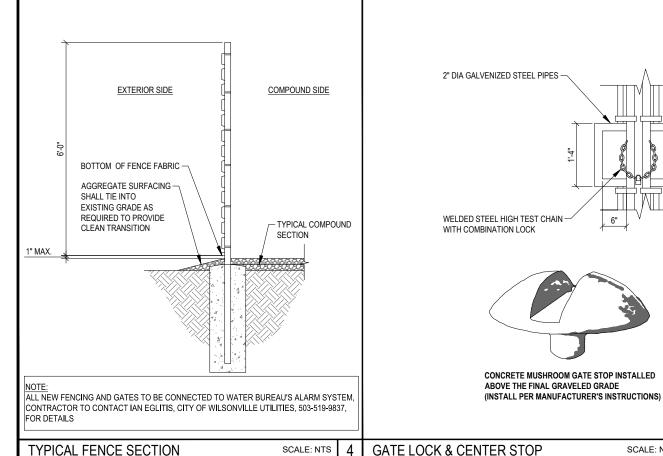
SHEET NUMBER:



- 1. GATE FRAME-1-7/8" OD, TOP & BRACE RAIL-1-5/8" OD, SCH. 40 (50 KSI) ASTM-F1083.
- 2. FABRIC: 9 GA. CORE WIRE SIZE 2" MESH FABRIC; FABRIC TO TOUCH GRAVEL BASE.
- 3. TIE WIRE: MINIMUM 11 GA. GALVANIZED STEEL.
- 4. BARBED WIRE: 12" (3) STRAND.
- 5. GATE LATCH: SEE DETAIL 5 THIS SHEET; VERIFY WITH CONSTRUCTION MANAGER.

6' HIGH GATE/FEN	NCE		
POST TYPE	POST DIAMETER	FOOTING SIZE	NOTES:
LINE POST	2-3/8"Ø	12"Øx33"	1. ALL POSTS: SCH. 40 (50 KSI) ASTM-F1083
CORNER POST	4"Ø	16"Øx36"	2. ALL FENCING TO BE ENGINEERED BY
GATE POST	4"Ø	16"Øx36"	FENCING MANUFACTURER & APPROVED BY PROJ. MGR. FENCE MANUFACTURER IS
			TO VERIFY ADEQUACY OF TABULATED POST & FOOTING SIZES

TYPICAL FENCE ELEVATION SCALE: NTS



SCALE: NTS

FENCING NOTES:

- GATE POST, CORNER, END, OR PULL POST 4" NOMINAL (4" O.D.) SCHEDULE 40 (50 KSI) PIPE. FOR GATE WIDTHS UP TO 6 FEET OR 12 FEET FOR DOUBLE SWING GATE
- LINE POST: 2-3/8" O.D. 3.65 LBS/LIN FT. ASTM-F1083.
- TOP RAIL AND BRACE RAIL: 1-1/2" (1.9" O.D.) PIPE 2.72 LBS/LIN FT PER ASTM-F1083. INSTALL BRACE AT ALL CORNER LOCATIONS AND ADJACENT TO GATES.
- GATE FRAME: 1-1/2" (1.9 O.D.) 2.72 LBS/LIN FT. ASTM-F1083.
- FABRIC SHALL BE TWO-INCH CHAINLINK MESH NO. 9 GAUGE (0.148") WIRE. THE FABRIC SHALL HAVE A KNUCKLED FINISH FOR THE TOP SELVAGES. FABRIC SHALL CONFORM TO ASTM A-392 CLASS 1.
- TIE WIRE: MINIMUM 11Ga. GALVANIZED STEEL. PROVIDE A SINGLE WRAP OF FABRIC, TIE AT POSTS, RAILS, AND AT TENSION WIRE BY HOG RINGS. MAXIMUM SPACING 24" O.C.
- TENSION WIRE: MINIMUM 7 Ga. GALVANIZED STEEL.
- U.N.O. BARBED WIRE: DOUBLE STRAND 12 Ga. 1/2" O.D. TWISTED WIRE TO MATCH W/ FABRIC, 14 Ga. 4PT. BARBS SPACED ON APPROX. 5" CENTERS.
- U.N.O. BARBED WIRE GATE GUARDS SHALL BE FITTED WITH DOME CAPS.
- U.N.O. BARBED WIRE SUPPORT ARMS SHALL BE PRESSED STEEL COMPLETE WITH SET BOLT AND LOCK WIRE IN THE ARM.
- PROVIDE TWO 5 FOOT WIDE OUT SWINGING GATES, (UNLESS NOTED OTHERWISE). NO PERSONNEL GATES ARE REQUIRED (UNLESS AS DIRECTED BY THE CONSTRUCTION MANAGER). GATES SHALL BE ABLE TO LOCK.

- 12. U.N.O. GATE POSTS SHALL BE EXTENDED 12 INCHES, INCLUDING DOME CAP, TO PROVIDE FOR ATTACHMENT OF BARBED WIRE.
- GATE FRAMES SHALL HAVE A FULL-HEIGHT VERTICAL BRACE, AND A FULL-WIDTH
- HORIZONTAL BRACE, SECURED IN PLACE BY USE OF GATE BRACE CLAMPS. GATE HINGES SHALL BE MERCHANTS METAL MODEL 64386 HINGE ADAPTOR WITH MODEL 6409, 180-DEGREE ATTACHMENT OR APPROVED EQUAL.
- GATE LATCH: 1-3/8" O.D. PLUNGER ROD W/ MUSHROOM TYPE CATCH.
- A 6" X 1/2" DIAMETER EYEBOLT TO HOLD TENSION WIRE SHALL BE PLACED AT LINE
- STRETCHER BARS SHALL BE 3/16" OR HAVE EQUIVALENT CROSS-SECTIONAL AREA. U.N.O. ALL POSTS EXCEPT GATE POSTS SHALL HAVE A COMBINATION CAP AND BARBED WIRE SUPPORTING ARM.
- ALL CAPS SHALL BE MALLEABLE IRON, DOME OR ACORN SHAPED AS REQUIRED BY PIPE SIZE
- OTHER HARDWARE MAY INCLUDE BUT NOT BE LIMITED TO TIE CLIPS, BAND CLIPS AND TENSION BAND CLIPS.
- U.N.O. WHERE THE USE OF CONCERTINA HAS BEEN SPECIFIED, 24" DIAMETER COIL. BARBED TAPE, STAINLESS STEEL, CYCLONE FENCE MODEL G8P TO TYPE III SHALL BE FURNISHED. IT SHALL BE SUPPORTED ABOVE THE TOP RAIL BY USE OF SIX (6) BARRED WIRE ARMS POSITIONED ATOP EACH LINE/CORNER POST
- 22. U.N.O. ALL CHAINLINK FENCING COMPONENTS MUST BE HOT DIPPED GALVANIZED.
- WHEN IN USE, PRIVACY SLATS TO BE A NEUTRAL COLOR.

GENERAL FENCE NOTES SCALE: NTS

> EXTERIOR SHELTER LIGHT PROVIDED WITH STATE APPROVED SHELTER



MODEL NUMBER WEIGHT SLIM18/PC 4.5 lbs MANUFACTURER DIMENSIONS RAR LIGHTING 6 5"X8 75"X3 9"

THE "AS-BUILT" INFORMATION ON THIS SHEET WAS PROVIDED BY THE CONTRACTOR. CONDITIONS MAY VARY FROM THESE "AS-BUILT" DRAWINGS.

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AS-BUILTS

3 5/16/22 AS-BUILTS (CLIENT REV.)

DRAWING INFORMATION:

CLACKAMAS 11300 SE Fuller Ed

WILSONVILLE

TANK

8323 SW ELLIGSEN ROAD

TUALATIN, OR 97062

RELEASE

FINAL CONSTRUCTION SUBMITTAL

UPDATED GEN & PROP. TANK SHT

FINAL CONSTRUCTION SUBMITTAL

FINAL CONSTRUCTION SUBMITTAL

FINAL CONSTRUCTION SUBMITTAL

FINAL CONSTRUCTION SUBMITTAL

Milwaukie, Cregon 97222

(503) 780-4806

SCO DADIO

PROJECT INFORMATION:

DATE 7/21/17

8/18/17

9/21/17

1/12/18

2/23/18

6/20/19

7/18/19

7/23/19

9/12/19

2 1/4/21

GROUP /

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LICENSURE:



RENEWAL DATE 12/31/21

SHEET TITLE:

COMPOUND DETAILS I

LED SHELTER LIGHT 3 SCALE: NTS



SIGN NOTES:

SIGN DETAILS

SCALE: NTS

- 1. SIGN MATERIAL: 18GA
- ALUMINUM. LETTERING COLOR =

BLACK

BACKGROUND COLOR = WHITE / RED

NOTICE

SIGN NOTES:

- 1. SIGN MATERIAL: 18GA
- ALUMINUM.
- 2. LETTERING COLOR = BLACK / WHITE
- 3. BACKGROUND COLOR = WHITE / BLUE

INFORMATION IN CASE OF EMERGENCY 503-629-0111 CLACKAMAS 800 RADIO GROUP SITE NAME: WILSONVILLE

REGISTRATION #

A NOTICE A

RADIOFREQUENCY ENVIRONMENTS

All personnel entering this site must be authorized

Before working on enternas, notify owners and disal appropriate transmitters.

Saintain minimum 3 feet clearance from all antennas.

les personal RF monitors while working near antann

Never operate transmitters without shields during normal operate base station antennas in equipment ruom.

Obey all posted sizes:

Assume all antennae are active.

Do not stop in front of amennas.

SIGN NOTES: SIGN MATERIAL: 18GA

ALUMINUM 2. LETTERING COLOR =

BLACK / WHITE 3. BACKGROUND COLOR =

WHITE / GREEN

SCALE: NTS

SIGN MATERIAL: 18GA

ALUMINUM

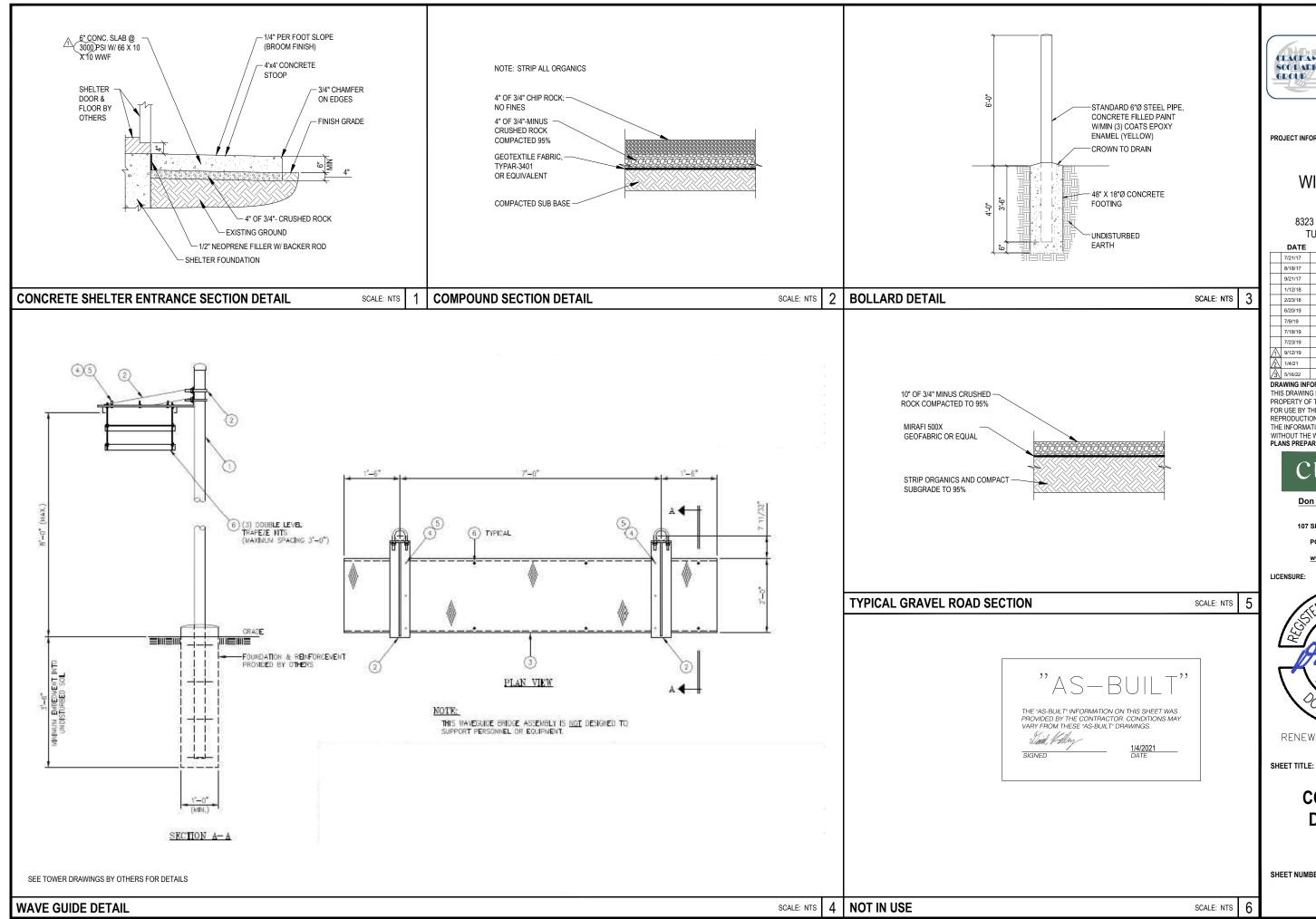
BLACK

YELLOW

2. LETTERING COLOR =

3. BACKGROUND COLOR =

SHEET NUMBER





PROJECT INFORMATION:

WILSONVILLE TANK

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

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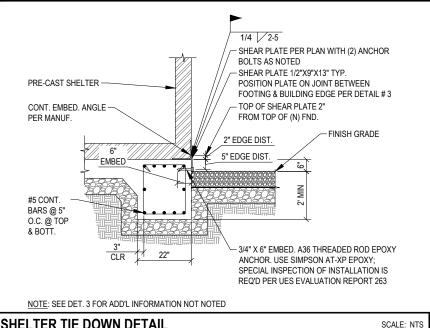
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RENEWAL DATE 12/31/21

COMPOUND **DETAILS II**

SHEET NUMBER:



GRADE BEAM (TYP)

3" CLR

(TYP)

-1/2" PREFORMED JOINT FILLER & SEALER (TYP)

ALSO PROVIDE AT SHELTER TIE DOWN PLATES

(BOTH DIRECTIONS)

-#5 @ 12" FW

TROWELED FINISH

8" CLR

(TYP)

-#3 TIES @

12" O.C. (TYP)

└#5 BARS @

SECTION A

5" O.C. @ TOP

& BOTT., (TYP)

1'-9"

24'-0"

7'-4"

CLR

-STRUCTURAL FILL UNDER SHELTER

SLAB AND UNDER GRADE BEAMS

(SEE NOTE 5 AND NOTE 10)

ROCK (COMPACTED 95%)

-PROPOSED VAPOR BARIER

-3/4" MINUS CRUSHED

(SEE NOTE 8)

(SEE NOTE 7)

"AS-BUILT"

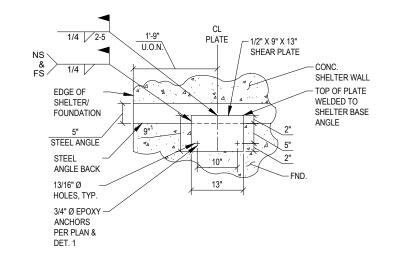
THE "AS-BUILT" INFORMATION ON THIS SHEET WAS PROVIDED BY THE CONTRACTOR. CONDITIONS MAY VARY FROM THESE "AS-BUILT" DRAWINGS.



#5 @ 12" O.C., EA. TYP.

CONCRETE SLAB

FOUNDATION PLAN



2 | SHEAR PLATES SHELTER TIE DOWN DETAIL **NOT IN USE** SCALE: NTS

8'-4"

SAW CUT CONTROL JOINTS

1/8" WIDE AND 1 1/4" DEEP,

USING EARLY ENTRY SAW

SHELTER TIE-DOWN PLATE (TYP 16x) -

SEE SHELTER TIE DETAIL THIS SHEET -

JUST AFTER SET FIRM

NOTES

WITH SHEAR PLATE EPOXY ANCHORS

SPECIAL INSPECTION INFORMATION

SPECIAL INSPECTION BY OWNERS TESTING AGENCY
SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY

AN APPROVED AGENCY IN ACCORDANCE WITH OREGON STRUCTURAL SPECIAL TY CODE (OSSC) SECTIONS 1703 AND 1704, AND WITH THE STATEMENT OF SPECIAL INSPECTIONS AS REQUIRED BY OSSC. REFER TO SHEETS G-2 AND G-3 FOR

SEE DETAIL 4 FOR ACTUAL PLACEMENT OF SHELTER
 SLAB REINFORCEMENT IN ORDER TO AVOID CONTACT

SCALE: NTS

SHELTER FOUNDATIONS.

CONTRACTOR MAY USE EARTH FORMS FOR UNEXPOSED CONCRETE WHERE SOIL IS FIRM AND STABLE. EARTH FORMS SHALL BE TRENCHED NEATLY AND ACCURATELY. SIDES OF FOUNDATIONS, WHERE EARTH SLOUGHS, SHALL BE FORMED, EARTH FORMS SHALL BE TAMPED FIRM, AND CLEANED OF ALL DEBRIS AND LOOSE MATERIAL, BEFORE

5. STRUCTURAL FILL USED FOR SITE GRADING SHALL BE FREE FROM TOP SOIL, ORGANIC CONTAMINATED SOIL, AND ROCK FRAGMENTS HAVING A MAXIMUM DIMENSION GREATER THAN 3 INCHES. MATERIAL SHALL BE CLEAN AND SHALL BE SUBJECT TO THE FOLLOWING

SILT CLAYS OR SANDY CLAY

- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED EARTH AND 1-1/2 INCHES FOR TOP BARS ON SIDEWALK AND SHELTER FOUNDATIONS.
- 7. VAPOR BARRIER SHALL BE VAPORBLOCK 10, OR APPROVED EQUAL
- CRUSHED ROCK AND GEOTEXTILE FABRIC IN THE COMPOUND AREA SHALL MEET THE REQUIREMENTS OF DETAIL 2 ON DWG C-10 AND ALL APPLICABLE GRADING NOTES.
- IN INSTANCES WHERE ROCK IS ENCOUNTERED AT LESS THAN 2'-0", CONCRETE MAY BEAR ON THE ROCK.
- 10. SUBGRADE PREPARATION AND STRUCTURAL FILL SHALL ADHERE TO THE REQUIREMENTS IN THE GEOTECHNICAL REPORT AND SUPPLEMENT COMPLETE BY BLACK MOUNTAIN CONSULTING DATED 6/12/18
- 14. EPOXY THREADED ROD ANCHORS, NUTS & WASHERS ARE TO BE GALVANIZED A36. ALL HARDWARE IS TO BE GAI VANIZED

OREGON APPROVED PREFABRICATED STRUCTURE OREGON PLAN # M231-17-5868D LIGHT GRAY COLOR

1. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3000 PSI FOR

- REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 "DEFORMED AND PLAIN BILLET STEEL BARS FOR CONCRETE REINFORCEMENT," LATEST
- 3. LAP LENGTH FOR SPLICES SHALL NOT BE LESS THAN CLASS B SPLICE, UNLESS OTHERWISE SPECIFIED. WELDING OF REINFORCEMENT WILL NOT BE PERMITTED.

PLASTICITY INDEX 10 TO 24 LIQUID LIMIT

CLAYEY SANDS OR SLIGHTLY CLAYEY SILTY SANDS PLASTICITY INDEX 3 TO 15 LIQUID LIMIT

- 11. ALL CONNECTION PLATES ARE TO BE GALVANIZED
- 12. DESIGN IN ACCORDANCE WITH ESSENTIAL FACILITIES REQUIREMENTS.
- 13. SHEAR PLATE ARE TO BE GALVANIZED 36 KSI STEEL



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PROJECT INFORMATION:

WILSONVILLE **TANK**

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

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2 1/4/21	AS-BUILTS
3 5/16/22	AS-BUILTS (CLIENT REV.)
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RENEWAL DATE 12/31/21

SHEET TITLE:

EQUIPMENT SHELTER FOUNDATION PLAN

SHEET NUMBER:

C-11



CHAMFER

GEOTEXTILE FABRIC

(SEE NOTE 8)

2'-0"

(SEE NOTE 9)

(SEE NOTE 8)

(2) #5 CONT. (6)

MID HT. OF FTG.

UFER GROUND, SEE

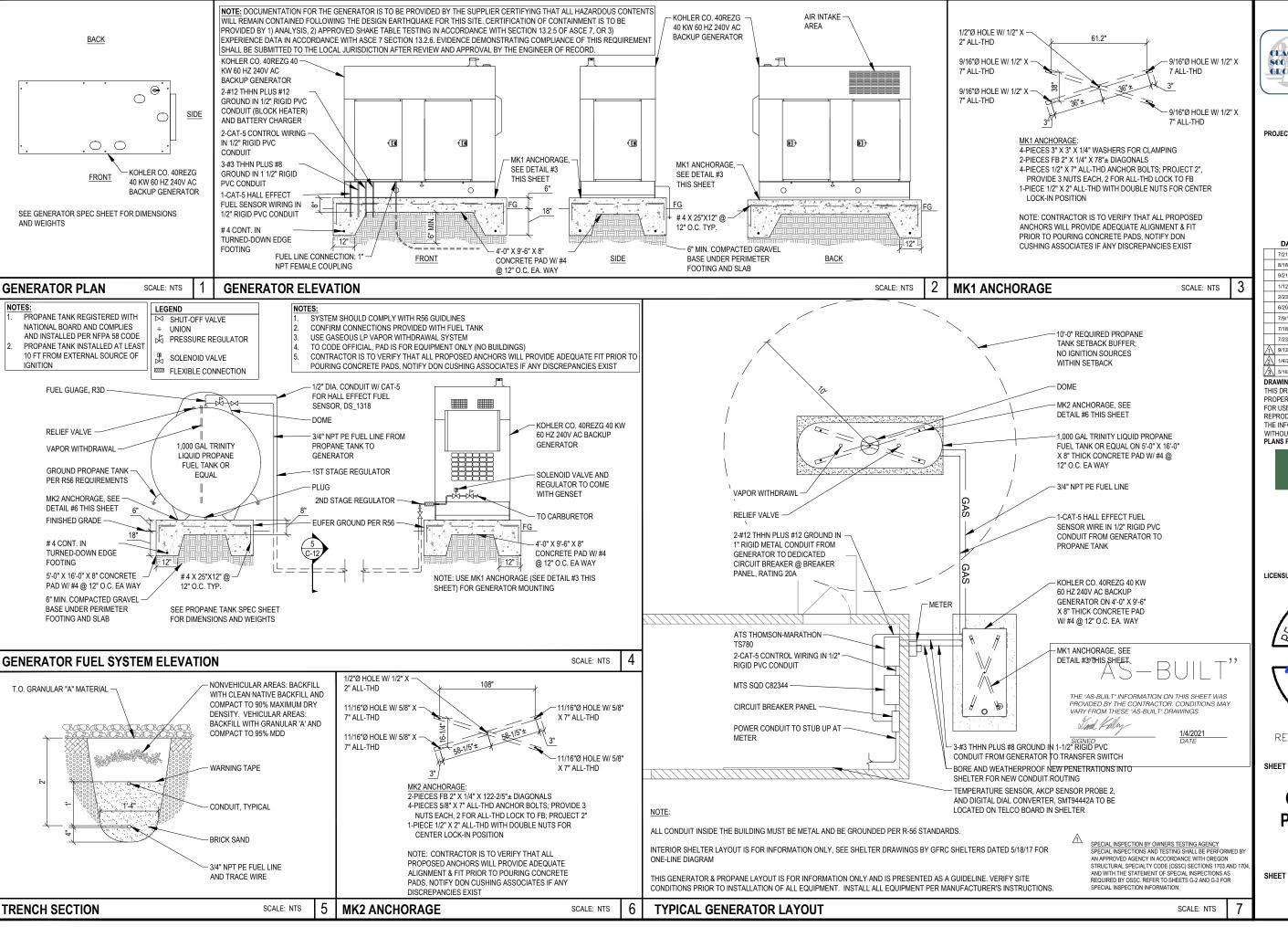
ELECTRICAL SHEETS

3/4" MINUS CRUSHED

ROCK (COMPACTED 95%)

FINISH GRADE-

SCALE: NTS





PROJECT INFORMATION:

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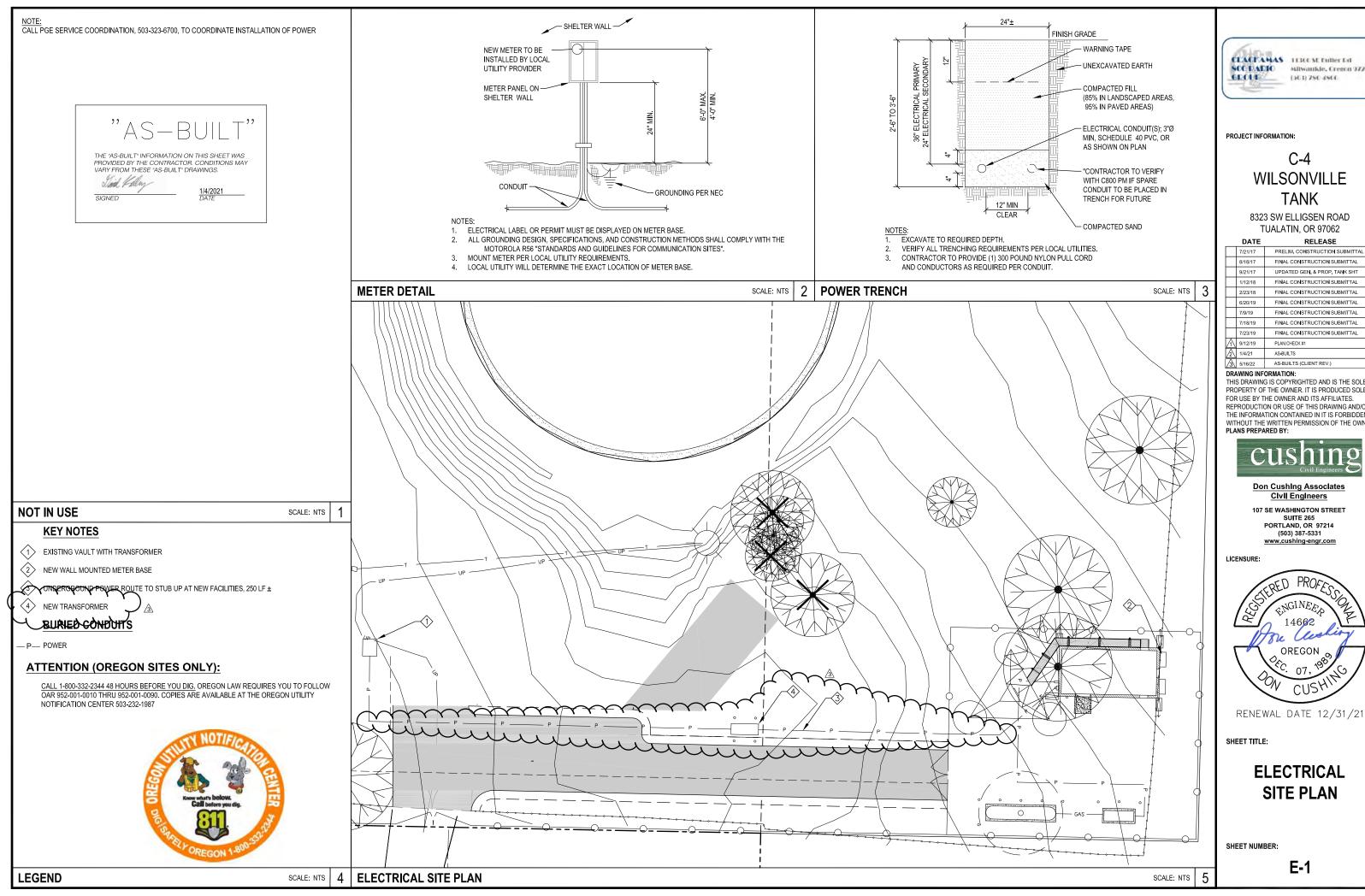


RENEWAL DATE 12/31/21

SHEET TITLE:

GENERATOR & PROPANE TANK DETAILS

SHEET NUMBER:



CEACEAMAS 11300 SE Fuller Ed (503) 790-4900

C-4 **WILSONVILLE TANK**

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

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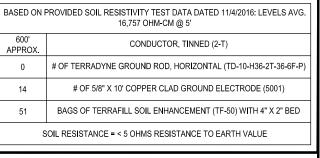


ELECTRICAL SITE PLAN

E-1

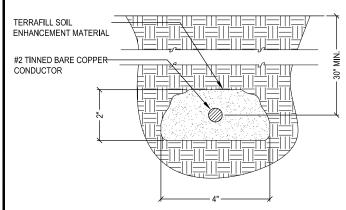
GENERAL NOTES: ALL INSTALLATIONS ARE TO BE FIELD VERIFIED. GROUND CONDUCTORS ARE TO BE BURIED AT A MINIMUM 30" BELOW GRADE OR 6" BELOW ERFEZE LINE WHICHEVER IS GREATER ALL BELOW GRADE GROUNDING CONDUCTORS ARE TO BE ENCOMPASSED IN A 2" X 4" BED OF TERRAFILL SOIL ENHANCEMENT MATERIAL. BONDS TO FENCE POSTS ARE TO BE MADE AT 12" ABOVE GRADE WHERE APPLICABLE. NO CONDUCTOR SHALL HAVE A BEND IN RADIUS OF LESS THAN 12" AND SHALL NOT EXCEED 90 DEGREES. TERRADYNE ELECTROLYTIC GROUND ELECTRODES ARE NOT TO SHARE THE SAME TRENCH AS GROUNDING CONDUCTOR, NOR RUN IN A PARALLEL PATH TO THE CONDUCTOR. ALL GROUND SYSTEMS ARE TO BE MADE COMMON. ALL BONDS ARE TO BE COATED WITH ANTI-OXIDATION COMPOUND. WHERE STANDARD GROUND ELECTRODES ARE UNABLE TO BE DRIVEN, 12" X 12" X 1/8" COPPER GROUND PLATES SHALL BE OF TERRAFILL SOIL ENHANCEMENT MATERIAL. -EXISTING ALARMED **FENCELINE** BOND C800 GROUND RING TO EXISTING WATER BUREAU GROUND SYSTEM, EXISTING GROUND SYSTEM TO BE VERIFIED

SITE COMPOUND GROUNDING PLAN



LEGEND:	
\Q	TERRADYNE TD-10-H36-2T-36-3F-P SERIES
ij	ELECTRODE W/ INSPECTION WELL
	EXOTHERMIC WELD
•	MECHANICAL CONNECTION
\otimes	5/8" X 10' COPPER CLAD GROUND ELECTRODE

"AS-BUILT" THE "AS-BUILT" INFORMATION ON THIS SHEET WAS PROVIDED BY THE CONTRACTOR. CONDITIONS MAY VARY FROM THESE "AS-BUILT" DRAWINGS. David Kally



PRELIM, CONSTRUCTION SUBMITTAL FINAL CONSTRUCTION SUBMITTAL 9/21/17 UPDATED GEN. & PROP. TANK SHT 2/23/18 FINAL CONSTRUCTION SUBMITTAL 6/20/19 FINAL CONSTRUCTION SUBMITTAL FINAL CONSTRUCTION SUBMITTAL 7/18/19 7/23/19 FINAL CONSTRUCTION SUBMITTAL AS-BUILTS 2 1/4/21 3 5/16/22 AS-BUILTS (CLIENT REV.) DRAWING INFORMATION:

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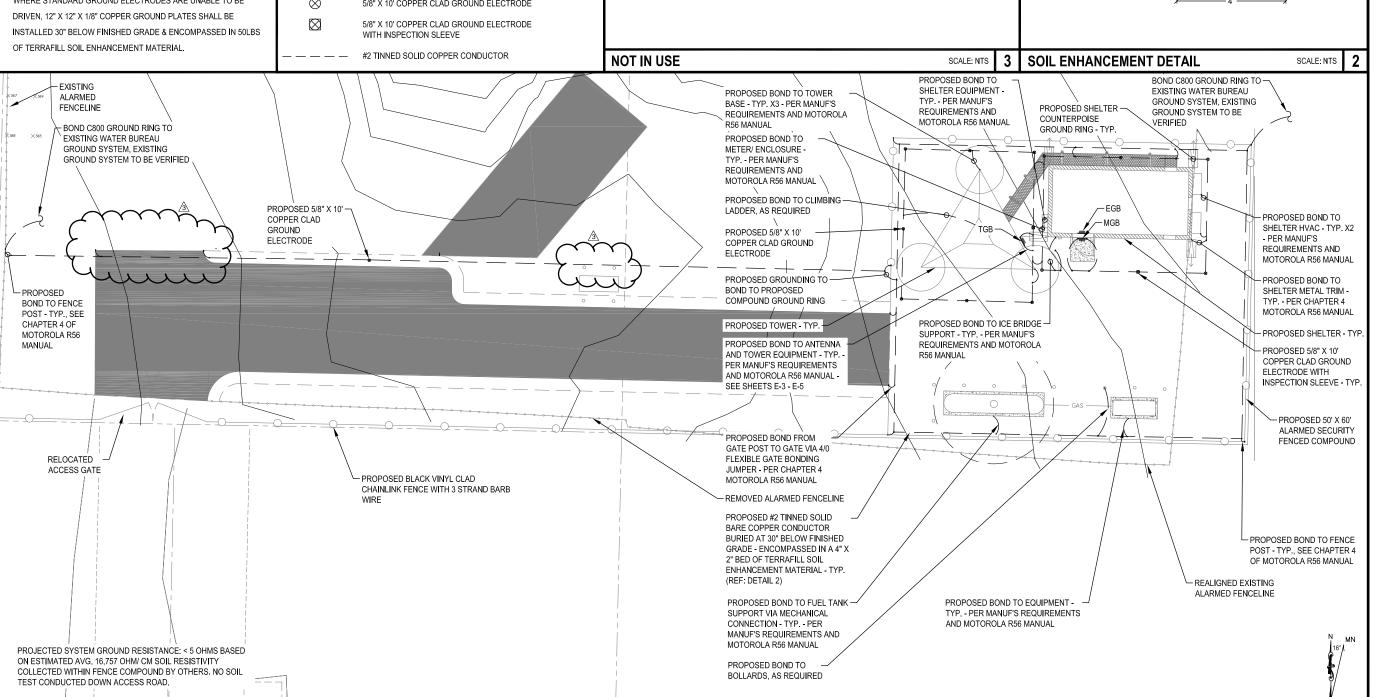
RENEWAL DATE 12/31/21

SHEET TITLE:

SITE GROUNDING **PLAN & DETAILS**

NTS

E-2



PROJECT INFORMATION:

CLACEAMAS TERCUSE Fuller Ed

GROUP

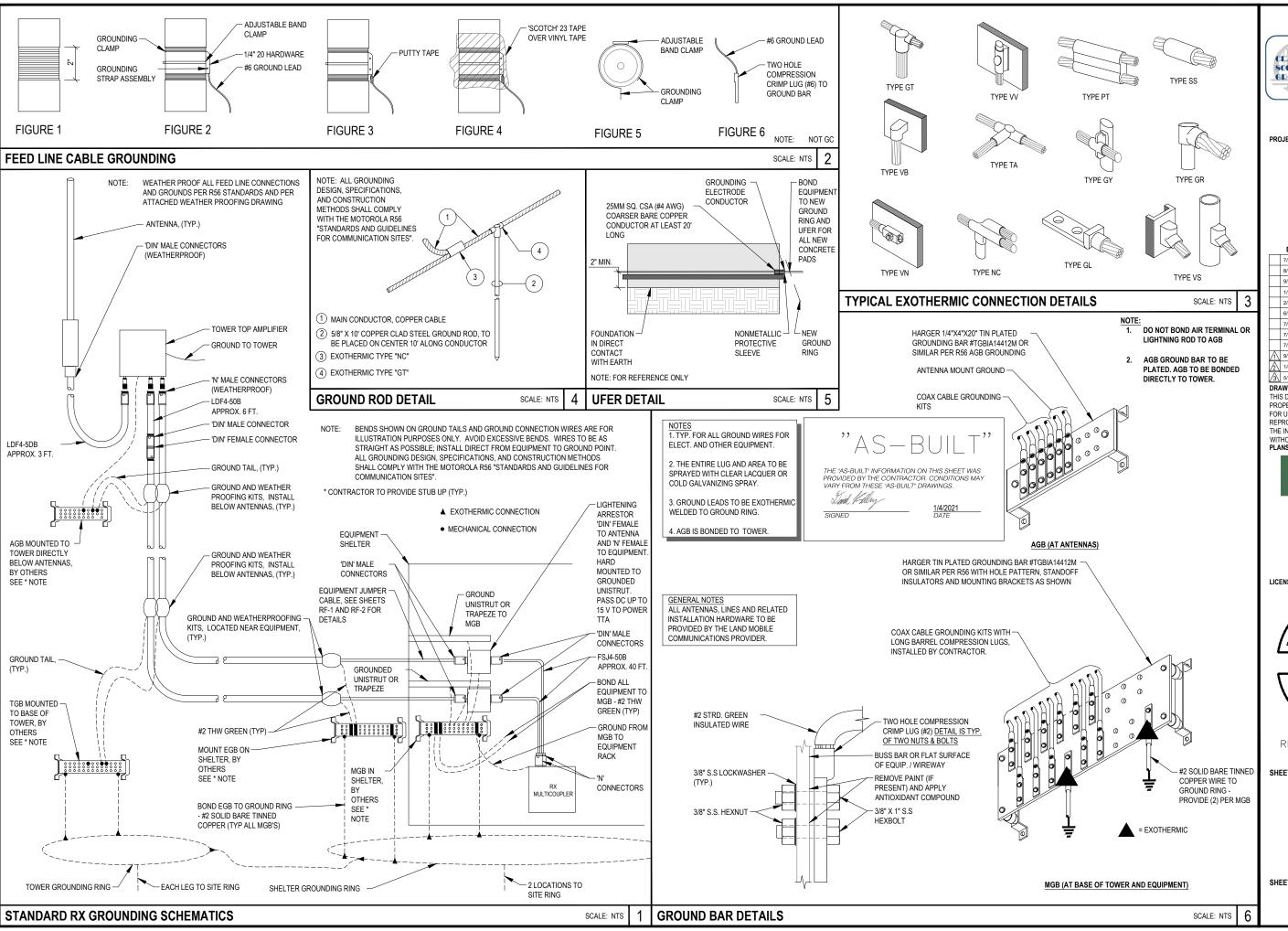
SCO FADIO Milwaukie, Cregon 97222

1003) 750 4500

WILSONVILLE **TANK**

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

SHEET NUMBER





PROJECT INFORMATION:

WILSONVILLE TANK

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

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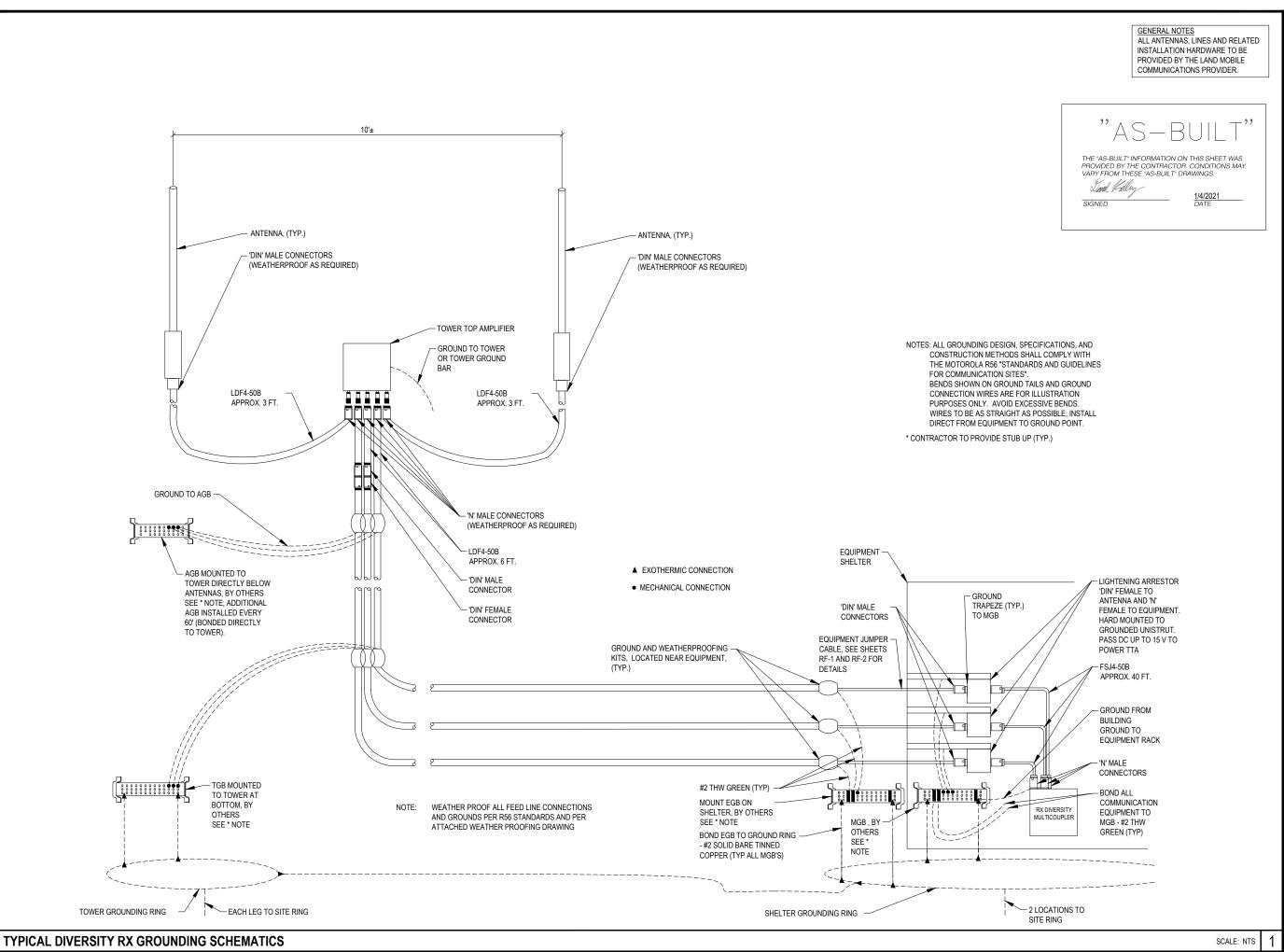
RENEWAL DATE 12/31/21

SHEET TITLE:

GROUNDING DETAILS I

SHEET NUMBER:

E-3





CLACKAMAS 11300 SE Fuller Ed SCO PADIO Milwaukie, Cregon 97222

PROJECT INFORMATION:

WILSONVILLE TANK

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

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7/21/17	PRELIM. CONSTRUCTION SUBMITTAL
8/18/17	FINAL CONSTRUCTION SUBMITTAL
9/21/17	UPDATED GEN. & PROP. TANK SHT
1/12/18	FINAL CONSTRUCTION SUBMITTAL
2/23/18	FINAL CONSTRUCTION SUBMITTAL
6/20/19	FINAL CONSTRUCTION SUBMITTAL
7/9/19	FINAL CONSTRUCTION SUBMITTAL
7/18/19	FINAL CONSTRUCTION SUBMITTAL
7/23/19	FINAL CONSTRUCTION SUBMITTAL
9/12/19	PLAN CHECK #1
2 1/4/21	AS-BUILTS
3 5/16/22	AS-BUILTS (CLIENT REV.)
DDAWING INEC	DMATION.

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Don Cushing Associates Civil Engineers

107 SE WASHINGTON STREET SUITE 265 PORTLAND, OR 97214 (503) 387-5331 www.cushing-engr.com



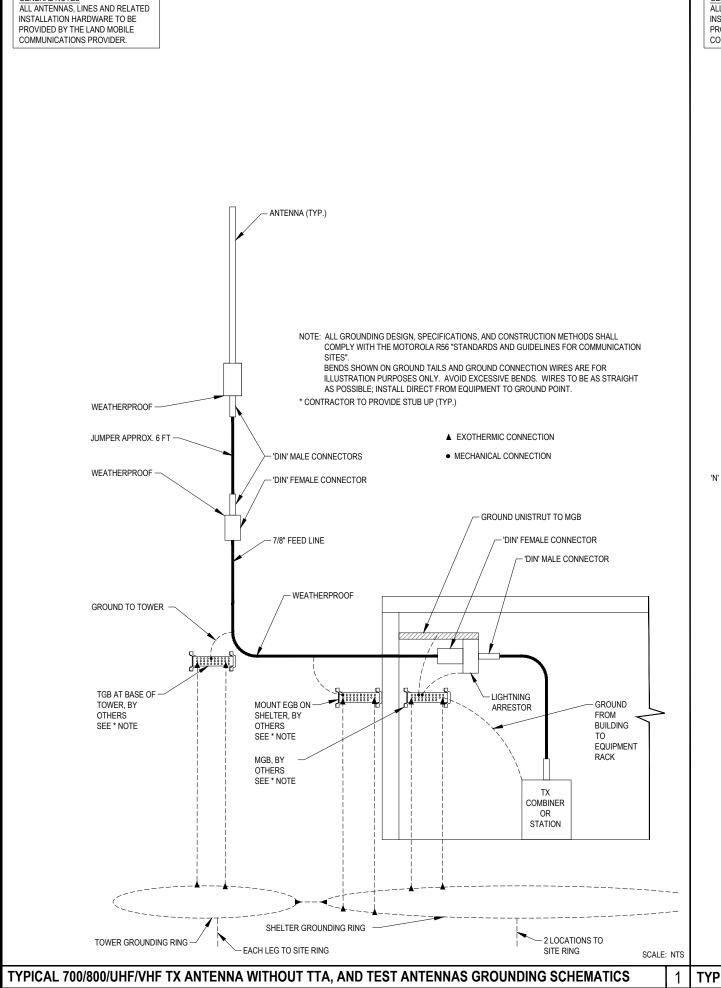
RENEWAL DATE 12/31/21

SHEET TITLE:

GROUNDING DETAILS II

SHEET NUMBER:

E-4



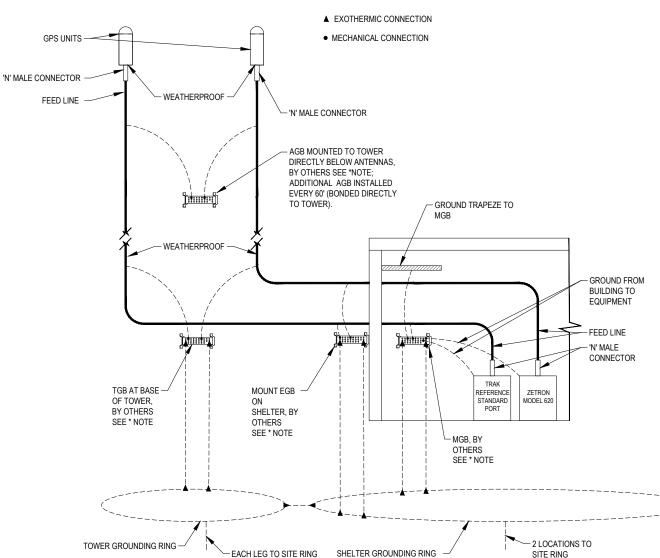
GENERAL NOTES ALL ANTENNAS, LINES AND RELATED INSTALLATION HARDWARE TO BE PROVIDED BY THE LAND MOBILE COMMUNICATIONS PROVIDER.

PROVIDED BY THE CONTRACTOR. CONDITIONS MAY VARY FROM THESE "AS-BUILT" DRAWINGS. Trial Kally

NOTE: GPS ANTENNAS MUST HAVE A CLEAR VIEW OF THE SOUTHERN SKY AND ABOVE ANY TREE CANOPY OR ADJACENT STRUCTURES THAT MAY MAY BLOCK THAT VIEW.
ALL GROUNDING DESIGN, SPECIFICATIONS, AND CONSTRUCTION METHODS SHALL COMPLY WITH THE MOTOROLA R56 "STANDARDS AND GUIDELINES FOR COMMUNICATION

BENDS SHOWN ON GROUND TAILS AND GROUND CONNECTION WIRES ARE FOR ILLUSTRATION PURPOSES ONLY. AVOID EXCESSIVE BENDS. WIRES TO BE AS STRAIGHT AS POSSIBLE; INSTALL DIRECT FROM EQUIPMENT TO GROUND POINT.

* CONTRACTOR TO PROVIDE STUB UP (TYP.)





CLACKAMAS 11300 SE Fuller Rd SCO PADIO Milwaukie, Cregon 97222 (503) 780-4806

PROJECT INFORMATION:

WILSONVILLE TANK

8323 SW ELLIGSEN ROAD TUALATIN, OR 97062

DATE	RELEASE
7/21/17	PRELIM. CONSTRUCTION SUBMITTAL
8/18/17	FINAL CONSTRUCTION SUBMITTAL
9/21/17	UPDATED GEN. & PROP. TANK SHT
1/12/18	FINAL CONSTRUCTION SUBMITTAL
2/23/18	FINAL CONSTRUCTION SUBMITTAL
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LICENSURE:



RENEWAL DATE 12/31/21

SHEET TITLE:

GROUNDING DETAILS III

SHEET NUMBER:

E-5

TYPICAL GPS ANTENNA GROUNDING SCHEMATICS

SCALE: NTS