Development Services

From Concept to Construction







APPEAL SUMMARY

Status:	Decision	Rendered
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Appeal ID: 14744	Project Address: 1230 SW Park Ave
Hearing Date: 3/8/17	Appellant Name: Sara Treber
Case No.: B-001	Appellant Phone: 503-816-5490
Appeal Type: Building	Plans Examiner/Inspector: Arthur Graves, Lisa Buellesbach
Project Type: commercial	Stories: NA Occupancy: Utility Construction Type: II-B
Building/Business Name:	Fire Sprinklers: No
Appeal Involves: Addition to an existing structure	LUR or Permit Application No.: 17-104243- CO
Plan Submitted Option: pdf [File 1] [File 2] [File 3] [File 4]	Proposed use: Unmanned telecommunication facility

APPEAL INFORMATION SHEET

Appeal item 1

0-4-	04	
Code	Section	

Section 2612(8)(7) of the Oregon Structural Specialty Code

Requires

Verizon Wireless intends to install an unmanned telecommunications facility to enhance their wireless cellular network. The proposed project includes the screening of proposed antennas on the rooftop of the existing building with proposed equipment in the basement. The project has completed the CUP phase and is moving into permit submittal phase. Per the antenna screening guideline provided by the City of Portland, screening utilizing FRP materials cannot exceed the maximum screen of 10'-0" above the finished roof.

Proposed Design

As per the CUP LU 16-147440 DZ, the design requirement states that the design must remain symmetrical and architecturally integrated with the rest of the building. Per the FRP screening guidelines the screening must not exceed 25% of the length of the building on the west side. Per the design review we were to install a 28' screening enclosure to meet the design standards. This puts us at 32% of the length of the building on the west side.

Reason for alternative The proposed design meets the 10' required set back from property lines and allowable lineal and square footage allotment requirements per City screening guidelines. Proposed screen walls will not block fire access or existing venting. The roof loading has been checked and the existing structure is adequate to support the proposed loading. Proposed screen wall materials will be specified to meet or exceed LA-RR standards requirements for flammability and flame spread. In our opinion, the screen wall will meet the visual screen requirements of the CUP while maintaining the safety requirements of the screening guidelines of the City of Portland. We would like to request pre-permit approval for design purposed to the approval of the proposed finished screen wall with a length of 32% of the overall building length on the West side.

Appeal item 2

Code Section

Section 2612(8)(7) of the Oregon Structural Specialty Code

Requires

Verizon Wireless intends to install an unmanned telecommunications facility to enhance their wireless cellular network. The proposed project includes the screening of proposed antennas on the rooftop of the existing building with proposed equipment in the basement. The project has completed the CUP phase and is moving into permit submittal phase. Per the antenna screening guideline provided by the City of Portland, screening utilizing FRP materials cannot exceed the maximum screen of 10'-0" above the finished roof.

Proposed Design

As per the CUP LU 16-147440 DZ, the design requirement states the top of the screening shall be equal to the existing elevator penthouse in order to provide symmetrical views from the East and West. The existing elevator penthouse is 12' 9" above the existing finished roof. The finished height of the proposed screening is required to be 12' 9" in order to match the existing elevator penthouse structure. Per the attached cross section of the proposed screen wall design, the FRP screen face material will be 12' 6" in vertical height but will be finished out at 12' 9" above the existing roof deck. A 3" gap at the base of the screen structure will allow for storm water to drain and organized passage of cabling under the screen while the existing parapet beyond will provide the additional visual screening of the antennas.

Reason for alternative The proposed design meets the 10' required set back from property lines and allowable lineal and square footage allotment requirements per City screening guidelines. Proposed screen walls will not block fire access or existing venting. The roof loading has been checked and the existing structure is adequate to support the proposed loading. Proposed screen wall materials will be specified to meet or exceed LA-RR standards requirements for flammability and flame spread. In our opinion, the screen wall will meet the visual screen requirements of the CUP while maintaining the safety requirements of the screening guidelines of the City of Portland. We would like to request pre-permit approval for design purposed to the approval of the proposed finished screen wall approximately 12' 9" above the existing finished roof.

APPEAL DECISION

- 1. FRP screening width exceeding 25% of the building's wall length: Denied. Extent of enclosure exceeds intent for limited use of FRP material.
- 2. FRP screening exceeding 10' height: Granted as proposed at 12'-6" on small shrouds.

Appellant may contact Lisa Buellesbach (503-823-7704) with questions.

For the item granted, the Administrative Appeal Board finds that the information submitted by the appellant demonstrates that the approved modifications or alternate methods are consistent with the intent of the code; do not lessen health, safety, accessibility, life, fire safety or structural requirements; and that special conditions unique to this project make strict application of those code sections impractical.

Pursuant to City Code Chapter 24.10, you may appeal this decision to the Building Code Board of Appeal within 180 calendar days of the date this decision is published. For information on the appeals process and costs, including forms, appeal fee, payment methods and fee waivers, go to www.portlandoregon.gov/bds/appealsinfo, call (503) 823-7300 or come in to the Development Services Center.



50 116th Ave SE, Bellevue, WA 98004

02.27.2017

APPEALS
Bureau of Development Services
1900 SW 4th Ave Suite 5000
Portland, OR 97201

Project Name: Verizon Wireless – POR Skidmore (CUP LU 16-147440 DZ)

Project Address: 1200 SW Park Ave, Portland, OR 97205

Verizon Wireless intend to install an unmanned telecommunications facility to enhance their wireless cellular network. The proposed project noted above includes the screening of proposed antennas mounted on side if existing building with proposed equipment mounted on rooftop.

This project has completed the CUP phase and is currently in the permit submittal phase. Per the FRP screening guideline provided by the city of Portland, screening utilizing FRP materials cannot exceed the maximum screen of 10'-0" above the finished roof.

As per the CUP LU 16-147440 DZ, the design was allowed to install a 12'-6" FRP enclosure on the roof top as long as it was architecturally integrated into the existing building. The new FRP enclosures are to be flush with the existing height of the penthouse.

Per the FRP screening guideline regarding the calculation of length of side of screen not exceeding 25% of length of the building on the west side.

As per the CUP LU 16-147440 DZ, The design was also allowed to install a 28'-0" screening enclosure that is mounted on the west side of existing roof top, as long as it was architecturally integrated with the existing penthouse. The new length will be at 32%.

This design has been approved for zoning. However, the structural review was not aware of this approval. We would like to request that the height and length restriction be waived as long as the exterior design meets the architectural design of the building.

Sincerely,

Paul Danneberg

A&E Program Manager







POR OREGONIAN

1230 SW PARK AVE and 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

PROJECT TEAM

PLANNING

COMPANY: ADDRESS: 621 SW ALDER #660 CITY, STATE, ZIP PORTLAND, OR 97205 CONTACT: AMANDA HOFFMAN

(503) 476-4883 amanda hoffman@smartlinkllc.com

SITE AQUISITION

COMPANY: ADDRESS: CITY, STATE, ZIP: CONTACT: SMARTIINK IIC 621 SW ALDER #660 PORTLAND, OR 97205 GERMAINE BAZAN (503) 522-0050

PHONE: E-MAIL: germaine.bazan@smartlinkllc.com

CHRIS WARREN (P E.) INFINIGY, LLC 50 116TH AVE. SE, SUITE 210 ADDRESS: CITY, STATE, ZIP: CONTACT: BELLEVUE, WA 98004

(206) 375-3798 E-MAIL

PROJECT SURVEYOR

COMPANY: ADDRESS: CITY, STATE, ZIP

245 ST HELENS AVE. SUITE 3A TACOMA, WA 98402-2519

SIGNATURE BLOCK

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

DISCIPLINE:	SIGNATURE:	DATE:
SITE ACQUISITION MANAGER:		
CONSTRUCTION MANAGER:		
RF ENGINEER:		
	+	

PROJECT SUMMARY

LESSEE

COMPANY: ADDRESS: CITY, STATE, ZIP: VERIZON WIRELESS 5430 NE 122ND AVE PORTLAND, OR 97230 CONTACT: NOAH GRODZIN EMAIL: noah.grodzin@verizo

APPLICANT'S REPRESENTATIVE

COMPANY SMARTLINK, LLC 621 SW ALDER #66

CITY, STATE, ZIP: PORTLAND, OR 97205 CONTACT AMANDA HOFFMAN PHONE: E-MAIL: (503) 476-4883

PROPERTY OWNER:

OREGON HISTORICAL SOCIETY 1230 SW PARK AVE PORTLAND, OR 97205 LISA NOAH CONTACT (503) 306-5225 PHONE: E-MAIL: lisa.noah@ohs.org

CONSTRUCTION MANAGER

COMPANY: VERZON WIRELESS 5430 NE 122ND AVE ADDRESS CITY STATE 7IP PORTLAND OR 97230 IASON FALLAL

PROPERTY INFORMATION: SEE LS-1

LEGAL DESCRIPTION:

APN # R246416 AND R246417

COUNTY: MULTNOMAH

JURISDICTION: CITY OF PORTLAND

CURRENT ZONING: RXd (CENTRAL RESIDENTIAL WITH DESIGN OVERLAY)

72 SQ. FT. (ANTENNA SHROUDS)

TYPE OF CONSTRUCTION:

UNMANNED TELECOMMUNICATIONS FACILITY PROPOSED USE:

FACILITY IS UNMANNED AND NOT FOR HANDICAP REQUIREMENTS: HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED

GEODETIC COORDINATES (PER 1A LETTER): 45.515833°N / -122.682333°W

ALPHA SECTOR:

45 515861° / -122 682083°W 45.515639° / -122.682444°W

BETA SECTOR GAMMA SECTOR

ELEVATIONS (NAVD88): GROUND ELEVATION AT SW BUILDING CORNER = 120.5' HIGHEST EKED STRUCTURE (TOP OF LADDER) = 184.9' FINISHED ROOF SURFACE = 180.0'

GROUND ELEVATION AT SW BUILDING CORNER TO HIGHEST FIXED STRUCTURE = 64.4' AGL GROUND ELEVATION AT SW BUILDING CORNER TO FINISHED ROOF SURFACE = 59.5" AGL GROUND ELEVATION AT SW BUILDING CORNER TO TO POP PARAPET = 51.9" AGL GROUND ELEVATION AT SW BUILDING CORNER TO TOP OF PRAMPET = 51.9" AGL 6 GROUND ELEVATION AT SW BUILDING CORNER TO TOP OF PENTHOUSE PARAPET = 61.8" AGL

VICINITY MAP 995

DRIVING DIRECTIONS	
FROM VERIZON WIRELESS OFFICE 5430 NE 122ND AVE, PORTLAND, OR 97230:	
HEAD SOUTHWEST ON NE 122ND AVE TOWARD NE WHITAKER WAY	1.0 MI
TURN RIGHT ONTO NE FREMONT ST	1.0 MI
TURN LEFT ONTO NE 102ND AVE	1.0 MI
TURN RIGHT ONTO NE WEIDLER ST	0.1 MI
USE ANY LANE TO TURN SLIGHTLY RIGHT ONTO NE HALSEY ST	1.0 MI
USE THE RIGHT LANE TO TAKE THE INTERSTATE 84 W/U.S. 30 RAMP TO CITY CENTER	0.2 MI
MERGE ONTO I-84/U.S. 30 W	4.3 MI
USE THE MIDDLE LANE TO TAKE THE I-5 S EXIT TOWARD BEAVERTON/SALEM/CITY CENTER	0.3 MI
KEEP RIGHT, FOLLOW SIGNS FOR CITY CENTER	0.4 MI
CONTINUE ONTO SE MORRISON BRIDGE	0.2 MI
USE THE RIGHT LANE TO TAKE THE NAITO PARKWAY S RAMP TO INTERSTATE 5 S	0.1 MI
MERGE ONTO SW NAITO PKWY/PACIFIC HWY W	0.4 MI
TURN RIGHT ONTO SW JEFFERSON ST	0.4 MI
TURN RIGHT ONTO SW PARK AVE	79 FT
DESTINATION WILL BE ON THE RIGHT; ARRIVE AT 1230 SW PARK AVE PORTLAND, OR 97205	

PROJECT DESCRIPTION

VERIZON WIRELESS PROPOSES TO CONSTRUCT AN UNMANNED TELECOMMUNICATIONS FACILITY ONSISTING OF VERIZON WIRELESS PROPOSES TO ADD A 3-SECTOR ANTENNA ARRAY WITH (6) PANE INTENNAS (2 PER SECTOR), (12) RRUS, AND (3) OVPs MOUNTED BEHIND NEW 3'x8' FRP SCREENED NCLOSURE MOUNTED ON EXISTING PENTHOUSE. NEW SCREENS TO BE PAINTED AND TEXTURED TO MATCH EXISTING BUILDING FASCADE, ALSO (3) FOUIPMENT CABINETS, (3) OVPS WITHIN CABINET, (1) GPS ANTENNA, AND UTILITY H-FRAME WITHIN A NEW 7'-10"X28' FRP SCREENED ENCLOSURE OUNTED ON EXISTING BUILDING ROOFTOP.

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
T-3	LEGEND & ABBREVIATIONS
LS-1	ROOFTOP SURVEY
A-1	OVERALL SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	EXISTING & PROPOSED WEST ELEVATION
A-4	EXISTING & PROPOSED SOUTH ELEVATION
A-5	EXISTING & PROPOSED NORTH ELEVATION
A-6	EXISTING & PROPOSED EAST ELEVATION
ΑĴ	CONSTRUCTION DETAILS
A.8	CONSTRUCTION DETAILS
A19	BATTERY SPECIFICATIONS
A□0	BATTERY SPECIFICATIONS
A.11	SIGNAGE DETAILS
RF-1	RF DETAILS
RF-2	RF INFORMATION
RF-3	PLUMBING DIAGRAM
E-1	UTILITY ROUTING PLAN DETAILS
G-1	SCHEMATIC GROUNDING PLAN & NOTES
G-2	GROUNDING DETAILS
S1	GENERAL NOTES
52	PLATFORM LOCATION PLAN
S3	FRAMING PLANS AND ELEVATIONS
S4	FRAMING ELEVATIONS
\$5	FRP ENCLOSURE

CODE COMPLIANCE

EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING

2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC) 4. 2014 OREGON FIRE CODE (OFC

2014 OREGON MECHNICAL SPECIALTY CODE (OMSC) 5. 2014 OREGON ELECTRICAL SPECIALTY CODE (OESC)

. 2014 OREGON PLUMBING SPECIALTY CODE (OPSC) 6. 2014 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEES

TIA-EIA-22-G OR LATEST EDITION

LOCAL AMENDMENTS TO THE ABOVE, WHERE APPLICABLE CITY/COUNTY ORDINANCES

LIFE SAFETY CODE NEPA-101

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS

NY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZO WIRELESS IS STRICTLY PROHIBITED



50 116TH AVENUE SE SUITE 210 BELLEVUE, WA 98004 TEL: (425) 201-4215 FAX: (425) 274-4449

	1			
2	02/27/17	L	IFE SAFETY COMME	NTS
1	12/27/16	100%	CONSTRUCTION DR	AWINGS
0	11/22/16	90%	CONSTRUCTION DR	AWINGS
DRAW	N BY:	PD	CHECKED BY:	AM



POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

SHEET TITLE:

TITLE SHEET

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF INFINIGY LLC AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF INFINIGY LLC, IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL OF

- 1. THIS FACILITY IS AN UNMANNED WIRELESS TELECOMMUNICATIONS EQUIPMENT FACILITY. THE OCCUPANCY CLASSIFICATION
- 2. THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, ACCESSIBILITY ACCESS AND REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH 2015 IBC.
- 3. THE CONTRACTOR SHALL VERIFY ALL EDISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT OR ENGINEER PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
- 4. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER OF ANY ERRORS. OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS. SPECIFICATIONS, INDIES PRIOR TO STARTING CONSTRUCTION, INCLUDING BUT NOT LIMITED BY DEMOLITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR LIMITED BY DEMOLTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, CONSISTING, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION, THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL ELISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE ELIPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE ELICUTION OF THE WORK, CONTACT USA DIG ALERT @ 000/227/2600
- 6. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION, ANY DAMAGE TO NEW OR EDISTING SURFACES, STRUCTURES OR EDUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE ETPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS
- A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS, THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL ASIBUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE ASIBULT. HIRED DRAWNINGS TO THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE
- 9. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REDUIRED BY THE
- 10. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST IBC AND ALL OTHER GOVERNING CODES, THE
- 11. THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA
- 12. WHEN RE⊡UIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO ECCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED
- 13 THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK USING HIS PROFESSIONAL KNOW EDGE AND SKILLS HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AN COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.

WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.

- 14. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT,
- 15, ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE, DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
- 16. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
- 17. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS
- 10 NEW CONSTRUCTION ADDED TO EDISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEDTURE, MATERIAL AND PAINT COLOR EDCEPT AS NOTED IN THE PLANS.
- 19. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EUTINGUISHERS HAVING A MINIMUM 2ALIQUBIC RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
- 20. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS RETUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
- 21, ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE
- 22. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
- 23. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
- 24, ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS, IF A CONTRACTOR HAS A UESTION REGARDING THEIR EDACT MEANING THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS

SPECIFICATIONS

SITEWORK (IF APPLICABLE)

- 1 THE PREPARATION OF THE SITE FOR CONSTRUCTION SHALL INCLUDE THE REMOVAL OF ALL BROKEN CONCRETE TREE TRUNKS AND ANY OTHER DEBRIS THAT WOULD BE DAMAGING TO THE FOOTINGS OF THE NEW STRUCTURE
- BACKFILLING AT NEW TRENCHES SHALL BE OF CLEAN. STERILE SOIL HAVING A SAND FOULVALENT OF 30 OR GREATER BACKFILLING BACKFILLING AT NEW TRENCHES SHALL BE OF CLEAN, STERILE SOIL HAVING A SAND EQUIVALENT OF 30 OR GREATER, BACKFILLING SHALL BE DONE IN 8 INCH LAYERS, MOISTURE CONDITIONED AND PROPERLY COMPACTED TO SPECIFIED COMPACTION PERCENTAGE PER ASTM D1557 (90% MIN). ADEQUATE DRAINAGE SHALL BE PROVIDED SUCH THAT NO PONDING OCCURS AFTER THESE RECOMMENDATIONS ARE APPROVED BY THE PROJECT MANAGER AND ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
- 3. ALL FOUNDATION FOOTINGS SHALL EXTEND INTO AND BEAR AGAINST NATURAL UNDISTURBED SOIL OR APPROVED COMPACTED FILL OOTINGS SHALL EXTEND INTO SOIL DEPTH INDICATED ON DETAILS.
- 4. SHOULD ANY LOOSE FILL EXPANSIVE SOIL, GROUND WATER OR ANY OTHER DANGEROUS CONDITIONS BE ENCOUNTERED DURING THE EXCAVATION FOR THE NEW FOUNDATION, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER OR OWNER'S REPRESENTATIVE AND ALL FOUNDATION WORK SHALL CEASE IMMEDIATELY

CONCRETE

REINFORCEMENT

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 40, DEFORMED UNLESS OTHERWISE NOTED, WELDED WIRE FABRIC HALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL
- 2 LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS.
- BARS NOTED "CONT", TYPICAL WALL REINFORCING, AND VERTICAL COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE EQUAL 40
 BAR DIAMETERS LAP, OR 24" WHICHEVER IS GREATER.
- 4. REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED: SPLICE AT OTHER LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- 5. SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STÄGGERED 4'-0" MINIMUM UNLESS OTHERWISE NOTED.
- 6 ALL REINFORCING, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING
- 7. #5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF THE ENGINEER.
- 8. PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE

BELOW GRADE (UNFORMED)	3*	CLEA
BELOW GRADE (FORMED)	2"	CLEA
WALLS	1"	CLEA
COLUMNS	1 1/2"	CLEA
BEAMS AND GIRDERS	1 1/2"	CLEA
STRUCTURAL SLAB (ABOVE GRADE)	3/4"	CLEA

CONCRETE (GENERAL)

- 1. STRUCTURAL FILL AND BACKFILL SHOULD CONSIST OF A NONIE PANSIVE GRANULAR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER AND PLACED IN UNIFORM 6" LIFTS.
- 2. STRUCTURAL FILL PLACED FOR SUPPORT OF FOUNDATION SHALL BE COMPACTED TO AT LEAST 95 OF MACIMUM DENSITY
- STRUCTURAL FILL UNDERNEATH FOUNDATIONS AND SLABS SHALL BE COMPACTED WITH A SMOOTH VIBRATORY
 COMPACTION DEVICE PRIOR TO CONCRETE PLACEMENT.
- 4. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 31
- 5. ALL CONCRETE SHALL HAVE A MINIMUM 2010AY COMPRESSIVE STRENGTH OF 2500 PSI. UNLESS OTHERWISE SPECIFIED. WATER CEMENTITIOUS MATERIAL/RATIO AND AIR CONTENT SHALL COMPLY WITH ACI 31 SECTION 4.1 4.2.
- 6. CEMENT FOR CONCRETE OR MASONRY MORTAR SHALL BE TYPE V "PORTLAND CEMENT" AND CONFORM TO ASTM C1150 STANDARDS, UNLESS OTHERWISE SPECIFIED IN GEOTECH REPORT OR IN THE DRAWINGS
- 7. AGGREGATE FOR CONCRETE SHALL CONFORM TO ASTM C/33 STANDARDS.
- □ CONCRETE SHALL BE DEPOSITED IN ACCORDANCE WITH 31□ SECTION 5.10 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE.
- COLD WEATHER AND HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 310 SECTION 4/2, AND SECTIONS 5/12 0.5/13.
- 10. AFTER PLACEMENT, THE CONCRETE SHALL BE COVERED WITH A PLASTIC VAPOR BARRIER FOR A 4 TO 7 DAY INITIAL CURING
- A MINIMUM OF THREE CONCRETE TEST CYLINDERS SHALL BE TAKEN, ONE SHALL BE TESTED AT 7 DAYS, ONE AT 2 DAYS. AND ONE HOLD CYLINDER UNLESS OTHERWISE SPECIFIED BY GOVERNING AGENC
- 12. FLOOR SLABS SHALL CONFORM TO ASTM CIBESTANDARDS AND SHALL BE 3 1/2 INCHES MINIMUM THICK ISSEE FOUNDATION
- 13. FLOOR SLABS SHALL BE LEVEL OR TRUE SLOPES AS SHOWN ON DRAWINGS, TOLERANCE 1/1 INCH IN 10 FEET
- 14. TOP OF CONCRETE SLAB TO BE 6" MINIMUM ABOVE FINISH GRADE. UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS
- 15. ALL EUPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER.
- 16. ALL EDTERIOR CONCRETE WALLS, PORCHES AND PLATFORMS ON SITE TO HAVE A ROCK SALT FINISH, #U.O.N.FI
- 17. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATE PLACEMENT OF ALL ROUGH HARDWARE AND ALL ITEMS OF OTHERTRADES REQUIRED TO BE EMBEDDED IN CONCRETE WORK

ELECTRICAL

- 1. REFER TO DRAWINGS FOR SITE SPECIFIC INFORMATION
- 2. ALL ELECTRIC WORK TO COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE. (REFER TO THE COVER
- 3. ALL INTERIOR SEISMIC UNISTRUT SHALL BE GROUNDED WITH #6 STRANDED COPPER WITH GREEN JACKET. ALL CONNECTIONS TO BE DOUBLE LUG.
- 4. BEFORE STARTING TRENCHING, THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL EXISTING LINES AFFECTED BY THE CONTRACT AND IMMEDIATELY NOTIFY THE PROJECT MANAGER IF ANY REROUTING OF EXISTING LINES IS NECESSARY.

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

NOTES 1-5 BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMP'S

- SUFFICIENT BMP'S MUST BE IMPLEMENTED TO PREVENT SILT, MUD, OR OTHER CONSTRUCTION DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR STORM WATER CONVEYANCE SYSTEM DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY SUCH DEBTS THAT MAY BE IN THE STREET AT THE END OF EACH WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREECH IN THE INSTALLED
- 2. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED INTO PLACE ON THE SITE.
- 3. ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN WORKING ORDER AT ALL TIMES.
- 4. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND
- 4. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.

IBC / 26/11 FIBER REINFORCED PLASTIC MATERIAL FOR ROOFTOP SCREENING APPLICATIONS

ALL FRP ROOFTOP SCREENING PLANS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE BUILDING OFFICIAL AND FIRE MARSHAL PRIOR TO PERMIT ISSUANCE

2. FIBER REINFORCED PLASTIC FRPTPRODUCTS PROPOSED FOR USE WITHIN THE JURISDICTION OF THE CITY OF PORTLAND SHALL HAVE A VALID APPROVAL REPORT SUCH AS AN INTERNATIONAL CODE COUNCIL EVALUATION SERVICE ICC.ES.REPORT OR CITY OF LOS ANGELES RESEARCH REPORT LARRO_THIS REPORT MUST BE CURRENT AND MUST BE BASED ON THE ACCEPTANCE CRITERIA FOR ANTENNA ENCLOSURE SYSTEMS GIVEN IN ICBO ... AC 141, REPORTS VALIDATING THE ALLOWABLE USE OF AN FRP PRODUCT MUST BE MADE AVAILABLE TO THE CITY OF PORTLAND, BUREAU OF DEVELOPMENT SERVICES

3. THE FABRICATION OF THE FRP PRODUCT MUST BE IN ACCORDANCE WITH MANUFACTURER'S QUALITY CONTROL MANUAL A COPY OF THE MANUAL MUST BE ON FILE WITH THE CITY OF PORTLAND, BUREAU OF DEVELOPMENT SERVICES

4. THE ENGINEER OF RECORD FOR THE ERP SCREEN DESIGN MUST SPECIEV THE MANUFACTURER OF ALL ERP PRODUCTS 4. THE ENGINEER OF RECORD FOR THE FAR SACEN DESIGN MUST SPECIFF THE MANDAGE OF ACTIVER OF ALL FAR PRODUCTS. THAT ARE TO BE USED IN THE CONSTRUCTION OF ANY FRP SCREEN STRUCTURE. THIS INFORMATION MUST BE SHOWN ON THE PERMIT DOCUMENTS. ALL FRP PRODUCTS USED MUST BE LABELED WITH THE NAME OF THE PRODUCT.

5. FOR CASES WHERE THE REDUIREMENTS OF THIS GUIDE AND A PRODUCT SPECIFIC TEST REPORT ARE IN CONFLICT, THE MORE RESTRICTIVE REDUIREMENT MUST BE MET

6. A COMPLETE PERMIT APPLICATION WILL INCLUDE PLANS AND STRUCTURAL CALCULATIONS PREPARED. STAMPED AND SIGNED BY AN ENGINEER LICENSED IN THE STATE OF OREGON.

7. IN ADDITION TO ALL THE REQUIREMENTS LISTED IN THIS GUIDE. THE ROOFTOP SCREENING MUST MEET THE HEIGHT DESIGN AND OTHER REQUIREMENTS OF THE PORTLAND ZONING CODE

THE BUILDING OFFICIAL AND FIRE MARSHAL, AT THEIR DISCRETION, MAY APPROVE PLANS THAT VARY FROM THE

DESIGN AND CONSTRUCTION
 THE FRP SCREEN SYSTEMS SHALL NOT INCLUDE ANY TYPE OF ROOF STRUCTURE.

2. THE DESIGN OF THE FRP SCREEN MUST MEET ALL OF THE REQUIREMENTS GIVEN IN THE TEST REPORT FOR THE FRP PRODUCT BEING SPECIFIED, ENGINEERING DESIGN MUST BE BASED ON THE PROPERTIES AND SAFETY FACTORS GIVEN IN THE APPROVAL DOCUMENTATION (ICC/ES OR LAIRRIFFOR THE PRODUCT SPECIFIED ON THE DESIGN DRAWINGS, THE DESIGN MUST PROVIDE A COMPLETE LOAD PATH FOR ALL CODE PRESCRIBED LOADS ON THE SCREEN STRUCTURE

3. MOMENT CONNECTIONS ARE NOT ALLOWED FOR RESISTING LATERAL OR VERTICAL LOADS

4. FRP PANELS MAY NOT BE USED AS SHEAR PANELS TO RESIST LATERAL LOADS

5. ALL CONNECTIONS MUST BE MADE WITH FRP OR STEEL BOLTS OR THREADED RODS AND NUTS. PLASTIC EPOLY OR ADHESIVE MAY NOT BE USED WHEN DESIGNING CONNECTIONS.

6, IN APPLICATIONS WHERE E□TREME TEMPERATURES ARE E□PECTED, THE DESIGN MUST CONSIDER THE REDUCED CAPACITIES OF FRP AT ELEVATED TEMPERATURES.

7. THE HEIGHT OF THE FRP SCREEN SHALL NOT EXCEED 10'-0' ABOVE THE ELEVATION OF THE ROOF AT ANY POINT WHERE THE FRP SCREEN IS ATTACHED

II THE TOTAL VERTICAL SURFACE AREA OF THE SCREEN PANELS SHALL NOT ECCEED 100 OF THE AREA OF THE ROOF

9. THE MACIMUM LENGTH OF ANY SIDE OF A ROOFTOP SCREEN SHALL NOT ECCEED 250 OF THE LENGTH OF THE BUILDING WALL PARALLEL TO THAT SIDE OF THE SCREEN WALL. 10.THE ROOFTOP SCREENING MUST BE LOCATED AT LEAST 10'-0" FROM ANY INTERIOR PROPERTY LINE.

11.THE ROOFTOP SCREENING MUST BE LOCATED NO CLOSER THAN 5'-0" CLEAR FROM ANY MECHANICAL EQUIPMENT. VERIFY WHETHER ANY SPECIFIC EQUIPMENT REQUIRES LARGER CLEARANCES AND PROVIDE AS NECESSARY.

12. THE ROOFTOP SCREENING MUST NOT OBSTRUCT ACCESS TO THE ROOF BY THE FIRE DEPARTMENT.

13.THE ROOFTOP SCREENING MUST NOT BLOCK ANY MEANS OF EGRESS OR EMERGENCY ESCAPE AND RESCUE FOR THE OCCUPANTS OF THE BUILDING.

14.THE ROOFTOP SCREENING MUST NOT OBSTRUCT ROOF DRAINAGE.

15.ACCESS PATHWAYS SHALL BE PROVIDED AS DESCRIBED IN THIS DOCUMENT, ACCESS PATHWAYS SHALL BE CLEAR OF ANY SMOKE AND HEAT VENTS, OTHER ROOF VENTS, DRAINS OR OTHER SMALL OBSTRUCTIONS, ACCESS PATHWAYS SHALL BE A MINIMUM OF 5'-0" WIDE AND HAVE A MINIMUM OVERHEAD CLEARANCE OF 7'-0".

16.THE ROOFTOP SCREENING MUST BE LOCATED SUCH THAT AN ACCESS PATHWAY IS MAINTAINED ON THREE SIDES OF THE ROOFTOP SCREEN. THE BOTTOM EDGE OF SLOPED ROOFS ISLOPE 122125SHALL NOT BE USED AS A PATHW

17.ACCESS PATHWAYS MUST BE PROVIDED AT 50'-0" MAXIMUM ALONG EACH LENGTH OF SCREEN WALL

10 FRP MATERIAL USED IN ROOFTOP SCREENING APPLICATIONS SHALL BE CLASSIFIED AS CC1 OR BETTER AND HAVE A MACIMUM FLAME SPREAD OF 50.

19.SCREENING SHALL NOT BE ILLUMINATED OR ELECTRIFIED.

20 FRP STRUCTURES SHALL BE BUILT IN THE SHOP AS MUCH AS POSSIBLE IF ANY FIELD CUTTING IS REQUIRED. ALL CUT EDGES AND DRILLED HOLES MUST BE SEALED USING A VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER

1. THE SPECIAL INSPECTOR MUST VERIFY THAT THE FRP MATERIAL SPECIFIED ON THE APPROVED DESIGN DOCUMENTS IS

2. THE SPECIAL INSPECTOR MUST VERIFY THAT ALL CUT EDGES AND DRILLED HOLES ARE PROPERLY SEALED USING A VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.

3. THE SPECIAL INSPECTOR MUST VERIFY THAT THE STRUCTURE IS BUILT IN ACCORDANCE WITH THE APPROVED DESIGN



THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS

Y USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZOR
WIRELESS IS STRICTLY PROHIBITED



50 116TH AVENUE SE SUITE 210 BELLEVUE, WA 98004 TEL: (425) 201-4215 FAX: (425) 274-4449

2 02/27/1 LIFE SAFETY COMMENTS 12/27/16 100% CONSTRUCTION DRAWINGS 0 11/22/1 90% CONSTRUCTION DRAWINGS DRAWN BY: PD CHECKED BY: AM



PROJECT INFORMATION:

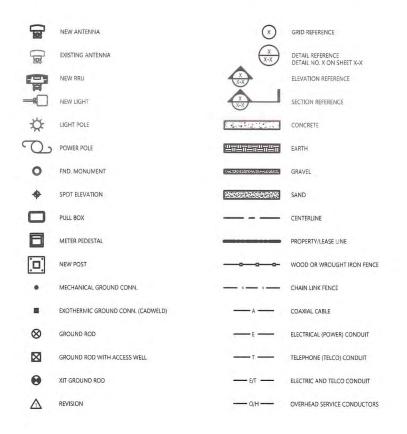
POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

REV.:



2 LEGEND

ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
I. B.	ANCHOR BOLT ABOVE AND CABLE COVER ASSEMBLY ADDITIONAL ADDITIONAL ADDITIONAL ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ALLMIMINAM ALTERNATE ANTENNA APPROXIMATE(LY) ARCHITECTURAL) AMERICAN WIRE GAUGE BULDING BLOCK BLOCKING BEAM BOUNDARY NAILING BARE TINNED COPPER WIRE BOTTOM OF FOOTING BACK-UP CABINET CONDUIT CABINET CANTILEVERIED) CAST IN PLACE CELING CENDUIT ONLY COLUMN COLUMN COLUMN CONCRETE CONNECTIONIOR CONSTRUCTION CON	FAB. F.F. F.G. F.N. F.D.N. F.O.S. F.O.S. F.O.S. F.O.W. F.S. F.T.(*) G. G.G. G.G. G.G. G.F. G.F. G.F. G.F.	FABRICATION(OR) FINISH GRADE FOOL FOR CONCRETE FACE OF MASONRY FACE OF SUD FACE OF WALL FINISH SURFACE FOOTIFIET FOOTITIO GROWTH (CABINET) GAUGE GENERATOR GALVANIZE(D) GROUND FAULT CIRCUIT INTERRUPTER GIUL HAMINATED BEAM GLOBAL POSITIONING SYSTEM GROUND HADER HANGER HEIGHT SOLATED COPPER GROUND BUS INTERIOR GROUND RING (HALO) INCHES INTERIOR GROUND RING (HALO) INCHES INTERIOR INTERIOR POSITIONING MASONRY MASIMUM MACHINE BOLT MASONRY MASIMUM MACHINE BOLT MASONRY MASIMUM MISCELLANEOUS METAL MANUFACTURER MASTER INSULATED GROUND BAR MINIMUM MISCELLANEOUS METAL NEW (PROVIDE AND INSTALL U.N.O.) NUMBER NOT TO SCALE ON CENTER PRESONAL COMMUNICATION SERVICES PLEVINGO POWER PROTECTION CABINET PRIMARY RADIO CABINET	P.S.F. P.S.I. P.S.I. P.S.I. P.S.I. P.V.C P.W.R. R.M.G.R. R.M.R. R.E.M.R. R.	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED POLIVININ CHLORIDE CONDUI POWER (CABINET) QUANTITY ARMS THE POWER (CABINET) QUANTITY ARMS THE POWER (CABINET) QUANTITY ARMS THE POWER (CABINET) RESIDENCE RESINGUE EN GROWER STAIN AND THE POWER STAIN AND



THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO VERIZON WIRELESS

ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED



50 116TH AVENUE SE SUITE 210 BELLEVUE, WA 98004 TEL: (425) 201-4215 FAX: (425) 274-4449

T	
	10
02/27/17	LIFE SAFETY COMMENTS
12/27/16	100% CONSTRUCTION DRAWINGS
11/22/16	90% CONSTRUCTION DRAWINGS
	12/27/16

PD

CHECKED BY:

AM

2-28-17

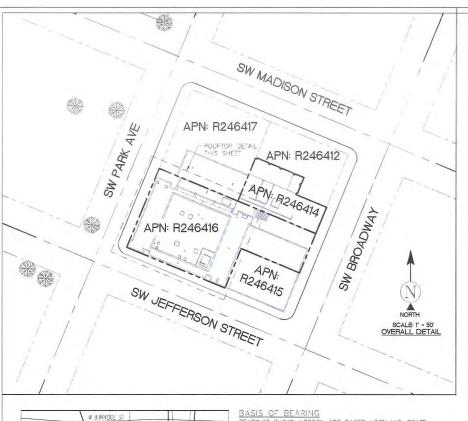
EXPIRATION DATE: 6-30-18

PROJECT INFORMATION:

POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

SHEET TITLE:

LEGEND & **ABBREVIATIONS**





SURVEY DATE 09/15/2015

DIRECTIONS TO SITE

DIRECTIONS TO SITE
FROM PORTLAND INTERNATIONAL AIRPORT:
START OUT GOING SOUTH ON NE AIRPORT WAY TOWARD
PORTLAND AIRPORT PARKING. SLIGHT RIGHT ONTO 1-205 S;
TAKE EXIT 21B FOR 1-84 W/ US-30 W TOWARD PORTLAND;
MERGE ONTO 1-84 / U.S. 30W; TAKE 1-5 S EXIT ON THE
LEFT TOWARD BEAVERTON/SALEM/CITY CENTER; KEEP RIGHT,
FOLLOW SIGNS FOR CITY CENTER; CONTINUE ONTO S;
MORRISON SRIDGE; TAKE NATIO PARKWAY S RAMP TO 1-5 S;
MERGE ONTO SW NAITO PKWY.PACHEC HWY W; TURN RIGHT
ONTO SW DEFFERSON ST AND THE DESTINATION MILL BE ON
YOUR RIGHT AT 1320 SW PARK AVE PORTLAND, OREGON.

DADIO VE BEAKING BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NADB3 COORDINATE SYSTEM OREGON STATE PLANE COORDINATE NORTH ZONE, DETERMINED BY REAL TIME KINEMATIC (RTK) GPS DATA PROCESSED/CORRECTED ON THE OREGON DEPARTMENT OF TRANSPORTATION (ODOT) CORS NETWORK.

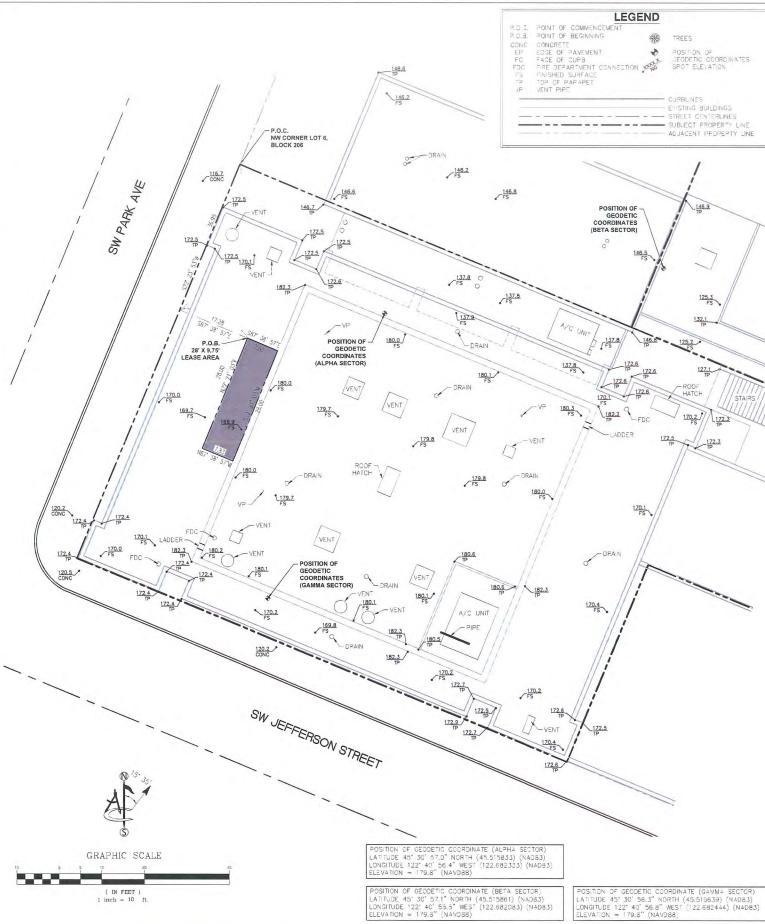
BENCHMARK
PROJECT STABLISHED FROM GPS DERIVED
ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS 'GEOID 12A'
MODELED SEPARATIONS TO ELLIPSCID HEIGHTS DETERMINED
BY REAL TIME KINEMATIC (RTK) GPS DATA PROCESSED/
CORPECTED ON THE OPEGON DEPAPTMENT OF
TRANSPORTATION (ODD) CORS NETWORK, ALL ELEVATIONS
SHOWN HEREON ARE PEFERENCED TO NAVD88.

FLOOD ZONE
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE
"X" AREAS TO BE OUTSIDE THE 0.2% ANNUAL CHANCE
FLOODPLAIN; ACCORDING TO FEDERAL EMERGENCY
MANAGEMENT AGENCY FLOOD INSURANCE PATE MAP, PANEL
93 OF 250, MAP NUMBER #41018300093E, MAP REVISED
DATE OCTOBER 19, 2004.

UTILITY NOTES
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
REMOVAL, RELOCATION AND / OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

SURVEYOR'S NOTES

SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECERDS TO DETERMINE ANY DEFECT IN TITLE ISSUED, THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.





ROJECT INFORMATION:

POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

=ORIGINAL ISSUE DATE:===

09/23/2015

0	09/23/2015	INITIAL SUBMITTAL	SAB
1	09/30/2015	PROPOSED SECTORS	SAB
2	06/17/2016	REVISE SECTORS (C)	AC
3	08/12/2016	REVISE SECTORS (C)	СК
4	12/12/2016	ADD TITLE (C)	СК
5	12/14/2016	CHG ADD TITLE (A) APN TO R246414	SR

PLANS PREPARED BY:



14432 SE EASTGATE WAY, SUITE 260 BELLEVUE, WA 98007-6493 TEL: 425.274.4444 FAX: 425.274.4449



-CHK.:----APV.:---TORAWN BY:

TACOMA, WASHINGTON 98402

PH. (253) 572-9181

SAB MF DG

=LICENSER: ======



SHEET TITLE:

ROOFTOP SURVEY

LESSOR'S LEGAL DESCRIPTION (APN: R246416) LOT 3, THE WEST 25 FEET OF LOT 4, AND ALL OF LOTS 5 AND 6, BLOCK 206, CITY OF PORTLAND, IN THE CITY OF PORTLAND, MULTINOWAL COUNTY, OREGON.

SCORE REPORT NOTES (APN: R246415)

REFERENCE IS MADE TO THE TITLE REPORT REFERENCE NO. NXOR-0195619, ISSUED BY NEXTITLE A TITLE & ESCROW COMPANY, EFFECTIVE DATE JULY 29, 2015. ALL SURVEY RELATED EASEMENTS CONTAINED WITHIN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED.

- 3. CONDITIONS, RESTRICTIONS AND/OR EASEMENTS CONTAINED IN AND IMPOSED BY DZ 67-83, A CERTIFIED COPY OF WHICH WAS RECORDED: DECEMBER 8, 1983, RECORDING NO.: 8 1711; P 1103. (NOT PLOTTABLE)
- 4. CONDITIONS, RESTRICTIONS AND/OR EASEMENTS CONTAINED IN AND IMPOSED BY FILE NO. LUR 93-00040, A CERTIFIED COPY OF WHICH WAS PECOPDED: AUGUST 19, 1993, PECORDING NO.: B 2741; P 173. (NOT PLOTTABLE)
- 5. CONDITIONS, RESTRICTIONS AND/OR EASEMENTS CONTAINED IN AND IMPOSED BY FILE NO. LUR 94-00208 DZ, A CEPTIFIED COPY OF WHICH WAS RECORDED: JUNE 20, 1994, RECORDING NO.: 94094792. (NOT PLOTTABLE)
- 6. CONDITIONS, RESTRICTIONS AND/OR EASEMENTS CONTAINED IN AND IMPOSED BY CASE FILE NO. LU 02-126431 DZM CU, A CERTIFIED COPY OF WHICH WAS RECORDED: SEPTEMBER 27, 2002, RECORDING NO.: 2002-172537 (NOT PLOTTABLE)
- 7. CONDITIONS, RESTRICTIONS AND/OR EASEMENTS CONTAINED IN AND IMPOSED BY CASE FILE NO. LU 03-101666 DZ, A CERTIFIED COPY OF WHICH WAS RECORDED: MARCH 12, 2003, RECORDING NO.: 2003-05568.7 (NOT PLOTTABLE)
- 8. OPERATIONS AND MAINTENANCE PLAN, INCLUDING THE TERMS AND PROVISIONS THEREOF, RECORDED: NOVEMBER 5, 2007, RECORDING NO.: 2007-192742. (NOT PLOTTABLE)

LESSOR'S LEGAL DESCRIPTION (APN: R246414)
A TRACT OF LAND BEING A PORTION OF LOTS 1 AND 2. BLOCK 206, "CITY OF PORTLAND," MULTNOMAH COUNTY PLAT
RECORDS, BEING ALL OF THAT TRACT OF LAND DESCRIBED IN DEED TO GREGON HISTORICAL SOCIETY, AN OREGON NON-PROFIT
CORPORATION RECORDED JUNE 20, 1986 IN BOOK 1915, PAGE 807 AND A PORTION OF THAT TRACT OF LAND DESCRIBED IN
DEED TO JEFFERSON-MADISON CORPORATION (REJISTRY NO. 576889-97), AN OREGON CORPORATION IN DOCUMENT NO.
2002-177257, MULTNOMAH COUNTY DEED RECORDS, JOCATED IN THE NORTHWEST CHARTEST CHARTER OF SECTION 3. TOWNSHIP IN
SOUTH, RANGE 1 EAST, MILLAMETTE MERDIAN, CITY OF PORTLAND, MULTNOMAH COUNTY, OREGON, BEING MORE PARTICULARLY
DESCRIBED AS FOLLOWS:
BEGINNING AT THE SOUTHEAST CORNER OF SAID JEFFERSON-MADISON TRACT, BEING ON THE WESTERLY RIGHT-OF-WAY LINE
OF SW BROADWAY AVENUE (80 FEET WIDE). SAID POINT BEARS SOUTH 22/3009*WEST 66.67 FEET FROM THE NORTH-82ST
39,24 FEET; THENCE LEAVING SAID SOUTHERLY LINE OR FAID JEFFERSON-MADISON TRACT NORTH 67/2951*WEST
39,24 FEET; THENCE NORTH 22/18475*EAST 1,90 FEET; THENCE NORTH 22/18475*EAST 1,90 FEET; THENCE NORTH 22/18475*EAST 1,90 FEET; THENCE NORTH 22/28475*EAST 1,90 FEET; THENCE NORTH 67/417*EAST 1,20
FEET; THENCE NORTH 22/28075*EST 1,552 FEET; THENCE NORTH 22/28475*EAST 8.20 FEET; THENCE NORTH 67/2955*WEST 1,00
FEET; THENCE NORTH 67/2955*WEST 1,05 FEET; THENCE NORTH 22/3953*WEST 1,00
FEET; THENCE NORTH 22/3007*EST 1,20 FEET; THENCE NORTH 22/3007*EST 1,20
FEET; THENCE NORTH 22/3007*EST 1,20 FEET; THENCE NORTH 22/3953*WEST 1,00
FEET; THENCE NORTH 22/3007*EST 1,20
FEET; THENCE NORTH 2/2853*WEST 1,90
FEET; THENCE NORTH 2/2953*WEST 1,90

SCORE REPORT NOTES (APN: R246414)

REFERENCE IS MADE TO THE TITLE REPORT REFERENCE NO. NXOR-0248360, ISSUED BY NEXTITLE A TITLE & ESCRUW COMPANY, EFFECTIVE DATE NOVEMBER 28, 2016. ALL SURVEY RELEASE ASSEMENTS CONTAINED WITHIN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED.

- 3. CONDITIONS, RESTRICTIONS AND/OR EASEMENTS CONTAINED IN AND IMPOSED BY HLDZ 38-87 AND DZ 65-87, A CERTIFIED COPY OF WHICH WAS RECORDED: FEBRUARY 22, 1988, RECORDING NO.: B 2081; P 1361 (NOT PLOTTABLE)
- 4. CONDITIONS, RESTRICTIONS AND/OR EASEMENTS CONTAINED IN AND IMPOSED BY FILE NO. HLDZ 98-87, A CERTIFIED COPY OF WHICH WAS RECORDED: JUNE 27, 1989, RECORDING NO.: B 2215; P 436 (NOT PLOTTABLE)
- 5. CONDITIONS, RESTRICTIONS AND/OR EASEMENTS CONTAINED IN AND IMPOSED BY FILE NO. LUR 93-00040, A CERTIFIED COPY OF WHICH WAS RECORDED: AUGUST 19, 1993, RECORDING NO.: B 2741; P 173 (NOT PLOTTABLE)
- 6. ESTOPPEL CERTIFICATE AND SUBORDINANATION AGREEMENT, INCLUDING THE TERMS AND PROVISIONS THEREOF, RECORDED: OCTOBER 11, 1994, RECORDING NO.: 94151261, BY AND BETWEEN: JEFFERSON-WADISON CORPORATION; AND WEST ONE BANK. OREGON, AFFECTS A PORTION OF THE HEREIN DESCRIBED PREMISES (NOT PLOTTABLE)
- 7. ESTOPPEL CERTIFICATE AND SUBORDINATION AGREEMENT, INCLUDING THE TEPMS AND PROVISIONS THEREOF, RECORDED: OCTOBER 11, 1994, RECORDING NO.: 94151262, BY AND BETWEEN JEFFERSON-WADISON CORPORATION; WILLIAM H. SALVESON AND WEST ONE BANK, OPEGON. AFFECTS A PORTION OF THE HEREIN DESCRIBED PREMISES (NOT PLOTTABLE)
- 8. ESTOPPEL CERTIFICATE AND SUBORDINATION AGREEMENT, INCLUDING THE TERMS AND PROVISIONS THEREOF, RECORDED: OCTOBER 11, 1994, RECORDING NO.: 94151263, BY AND BETWEEN: JEFFERSON-MADISON CORPORATION; THE GREGON HISTORICAL SOCIETY: AND WEST ONE BANK, OREGON. AFFECTS A PORTION OF THE HEREIN DESCRIBED PREMISES (NOT BIOTTARIES) PLOTTABLE)
- 9. TRUST DEED, TO SECURE AN INDEBTEDNESS IN THE AMOUNT SHOWN BELOW, AND ANY OTHER OBLIGATIONS SECURED THEREBY, RECORDED: OCTOBER 11, 1994, RECORDING NO.: 94/51/284, GRANTOR: JEFFERSON-MADISON CORPCRATION, TRUSTED VALERIE I, AUERBACH, BENEFICIARY, WEST ONE BANK, AMOUNT: \$605,000.0. AFFECTS A PORTION OF THE HEREIN DESCRIBED PREVISES THE BENEFICIAL INTEREST IN THE TRUST DEED SET FORTH MEXT ABOVE WAS ASSIGNED BY INSTRUMENT, PECORDED: NOVEMBER 6, 1996, PECORDING NO.: 96168690, TO PACIFIC ONE BANK, THE ABOVE TRUST DEED WAS MODIFIED BY INSTRUMENT, INCLUDING THE TERMS AND PROVISIONS THEREOF, ENTITLED: MODIFICATION OF DEED OF TRUST, RECORDED: JUNE 26, 2003, RECORDING NO.: 2003-147552 10, ASSIGNMENT OF RENTS, INCLUDING THE TERMS AND PROVISIONS THEREOF, RECORDED: OCTOBER 11, 1994, RECORDING NO.: 9415/265, GYEN AS ADDITIONAL SECURITY TO THE DEED OF TRUST, RECORDED THE SAME DATE, RECORDING NO.: 94151264. AFFECTS A PORTION OF THE HEREIN DESCRIBED PREMISES (NOT
- 11. CONDITIONS, RESTRICTIONS AND/OR EASEMENTS CONTAINED IN AND IMPOSED BY CASE FILE NO.: LU 02-125431 DZM CU, A CEPTIFIED COPY OF WHICH WAS RECOPDED; SEPTEMBER 27, 2002, RECOPDING NO.: 2002-172537 (NOT PLOTTABLE)
- 12. RECIPROCAL EASEMENT AGREEMENT AND RESTRICTIVE COVENANT, INCLUDING THE TERMS AND PROVISIONS THEREOF, RECORDED: MAY 30, 2014, RECORDING NO.: 2014-051717.. (NOT PLOTTABLE)

LEASE AREA LEGAL DESCRIPTION
THAT PORTON OF LOT 6, BLOCK 206, CITY OF PORTLAND, IN THE CITY OF PORTLAND, MULTHOMAH COUNTY, OREGON, DESCRIBED AS FOLLOWS:
COMMENCING AT THE NORTHWEST CORNER OF SAD LOT 6:
THENCE GOING SOUTH 2223/53" WEST, A DISTANCE OF TAS FEET,
THENCE LEAVING SAID WESTERLY LINE SOUTH 67:38/57" EAST 4 DISTANCE OF 17.28 FEET TO THE POINT OF BEGINNING:
THENCE SOUTH 67:38/37" EAST, A DISTANCE OF 7.83 FEET,
THENCE SOUTH 2221/33" WEST, A DISTANCE OF 7.83 FEET;
THENCE NORTH 67:38/37" WEST, A DISTANCE OF 7.83 FEET;

THENCE NORTH 22'21'03" EAST, A DISTANCE OF 28.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 219 SOUARE FEET MORE OR LESS.



PROJECT INFORMATION:

POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

-ORIGINAL ISSUE DATE:

09/23/2015

REV.:=DATE: DESCRIPTION:

09/23/2015	INITIAL SUBMITTAL	SAE
09/30/2015	PROPOSED SECTORS	SAB
06/17/2016	REVISE SECTORS (C)	AC
08/12/2016	REVISE SECTORS (C)	СК
12/12/2016	ADD TITLE (C)	СК
12/14/2016	CHG ADD TITLE (A) APN TO R246414	SR
	09/30/2015 06/17/2016 08/12/2016 12/12/2016	09/30/2015 PROPOSED SECTORS 06/17/2016 REVISE SECTORS (C) 08/12/2016 REVISE SECTORS (C) 12/12/2016 ADD TITLE (C) CHG ADD TITLE (A)

-PLANS PREPARED BY:



14432 SE EASTGATE WAY, SUITE 260 BELLEVUE, WA 98007-6493 TEL: 425.274.4444 FAX: 425.274.4449



428 MAIN STREET SUITE 206 HUNTINGTON BEACH, CA 92648 PH. (480) 659-4072

ambit consulting

=CHK ·==APV ·= =DRAWN BY:=

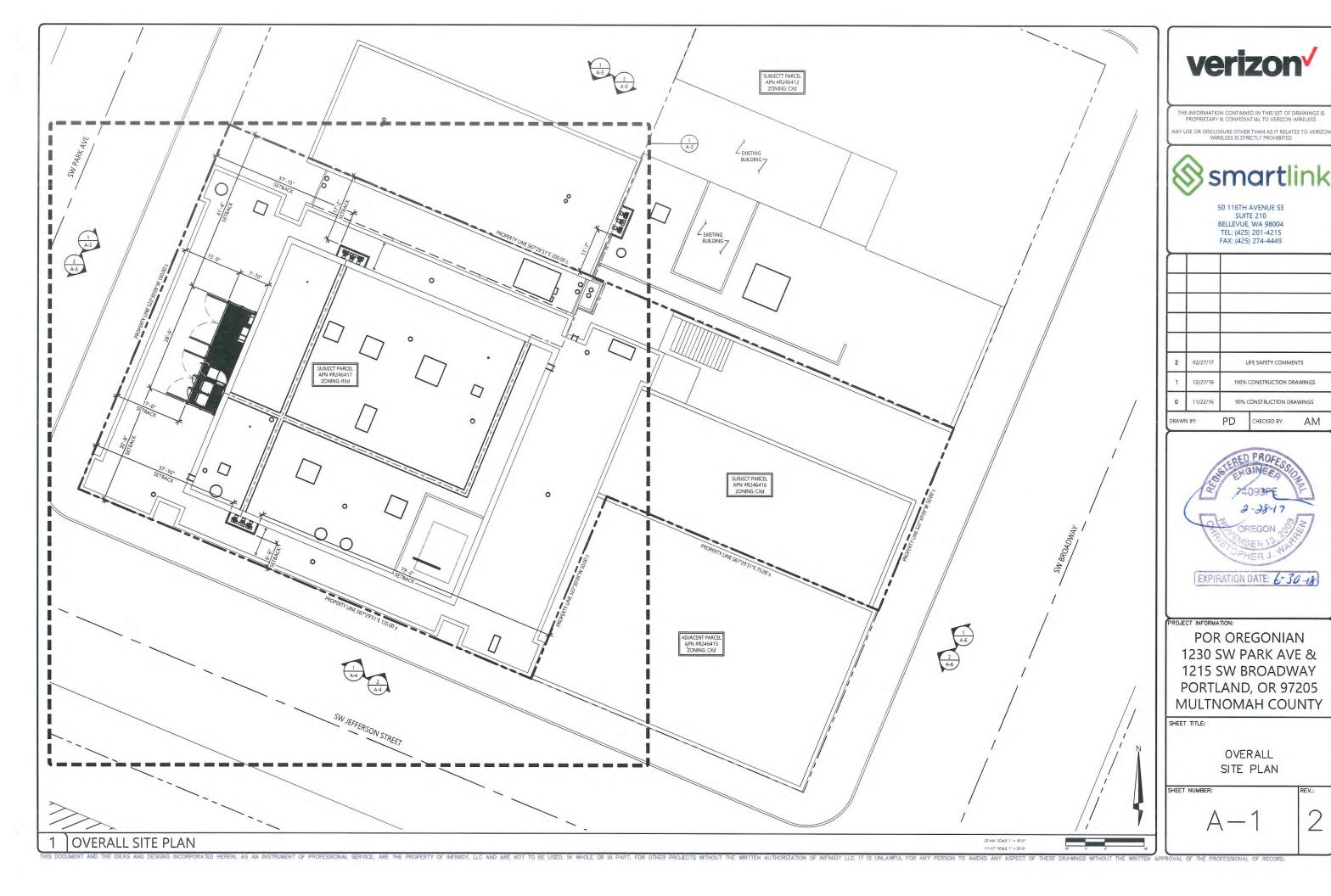
MF DG SAB

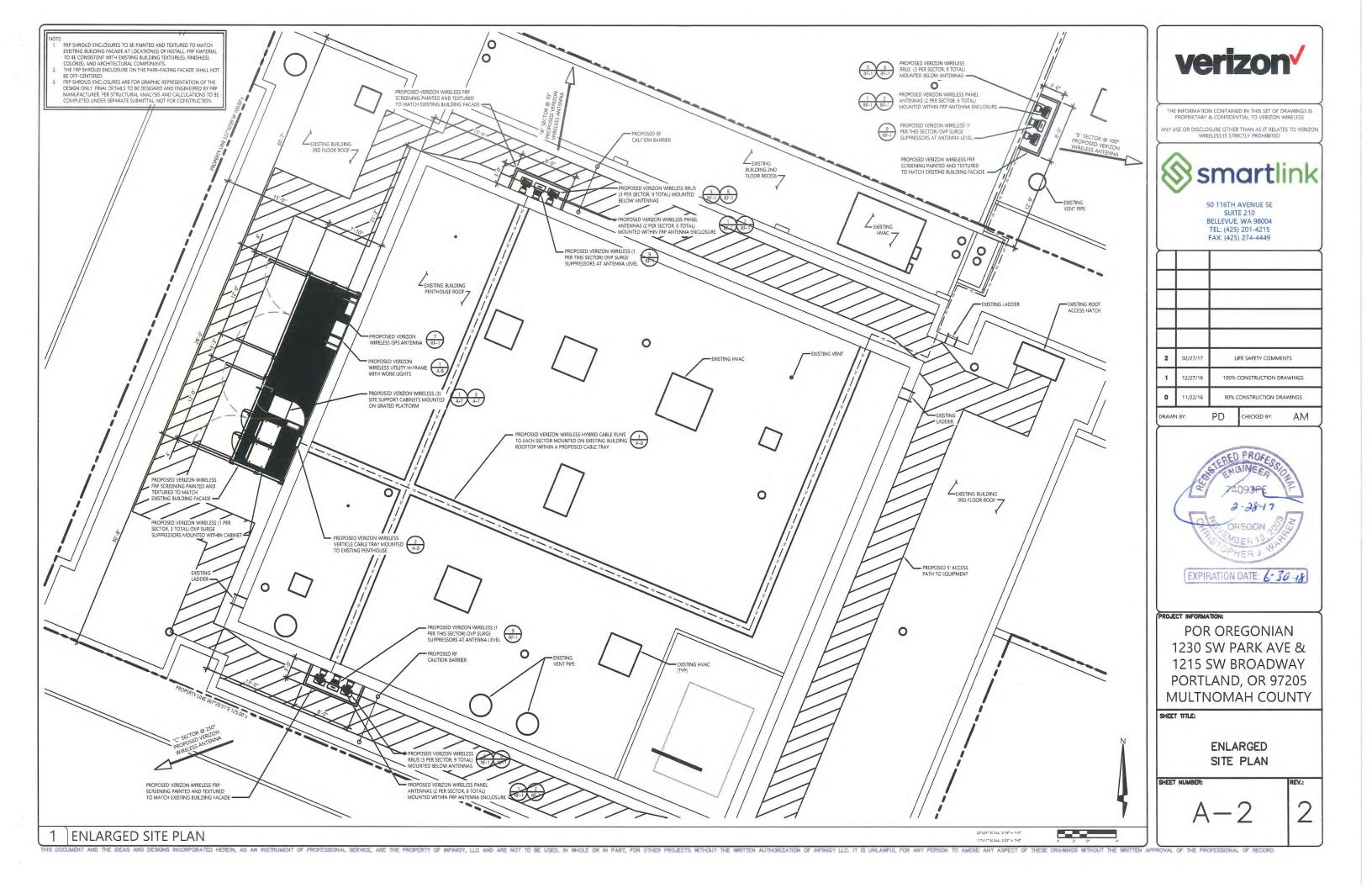
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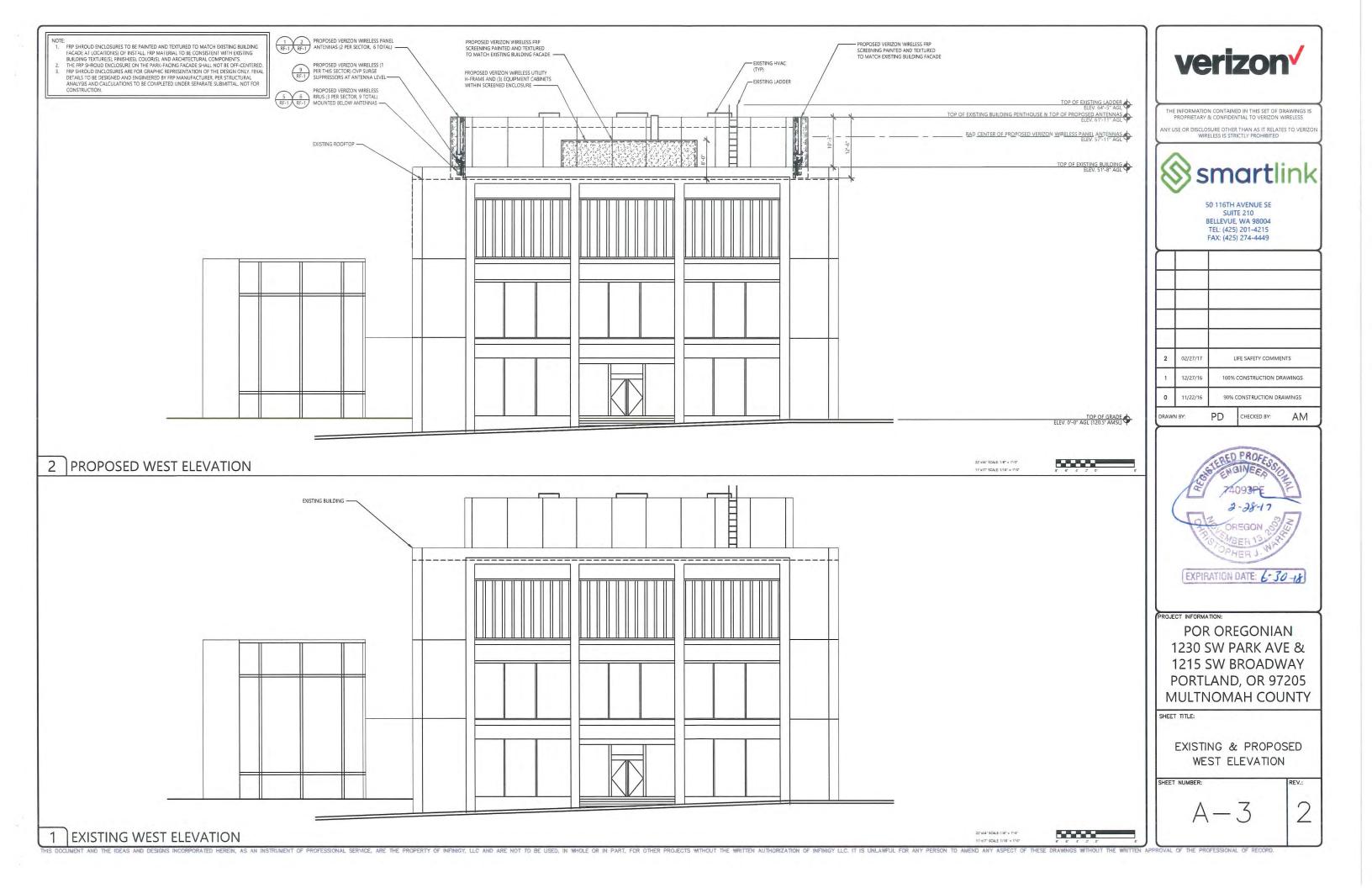


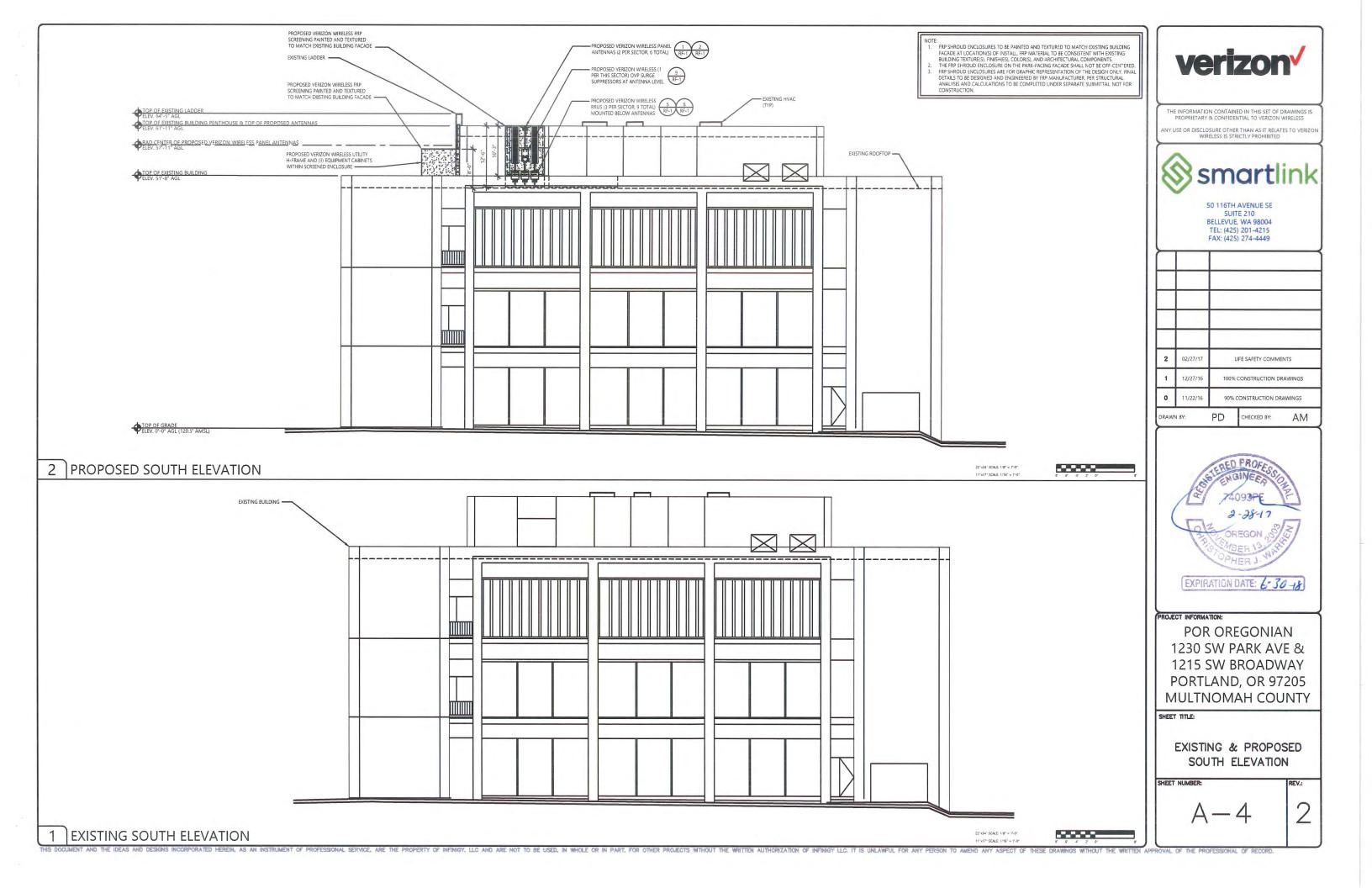
SHEET TITLE :-

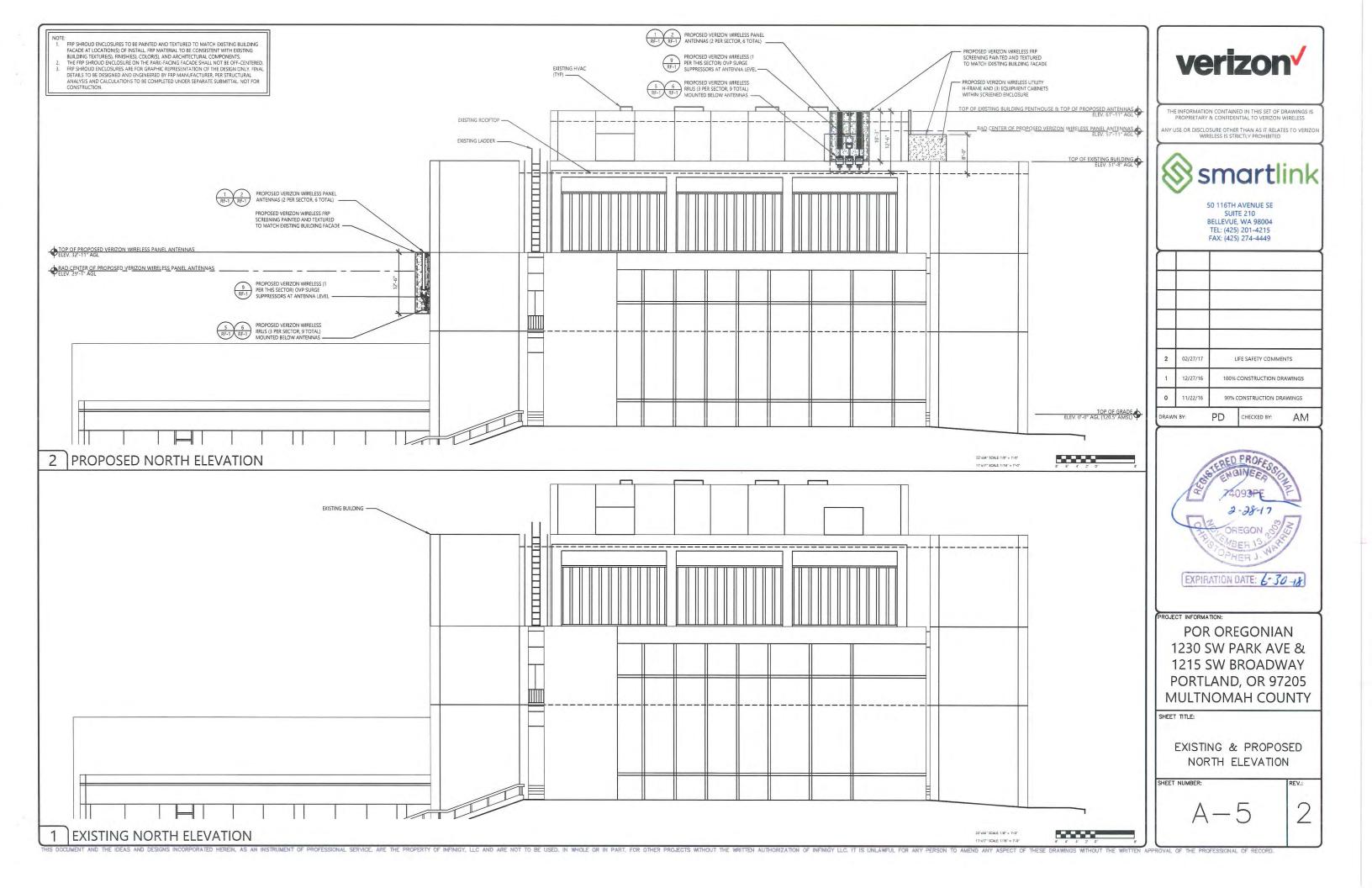
ROOFTOP SURVEY

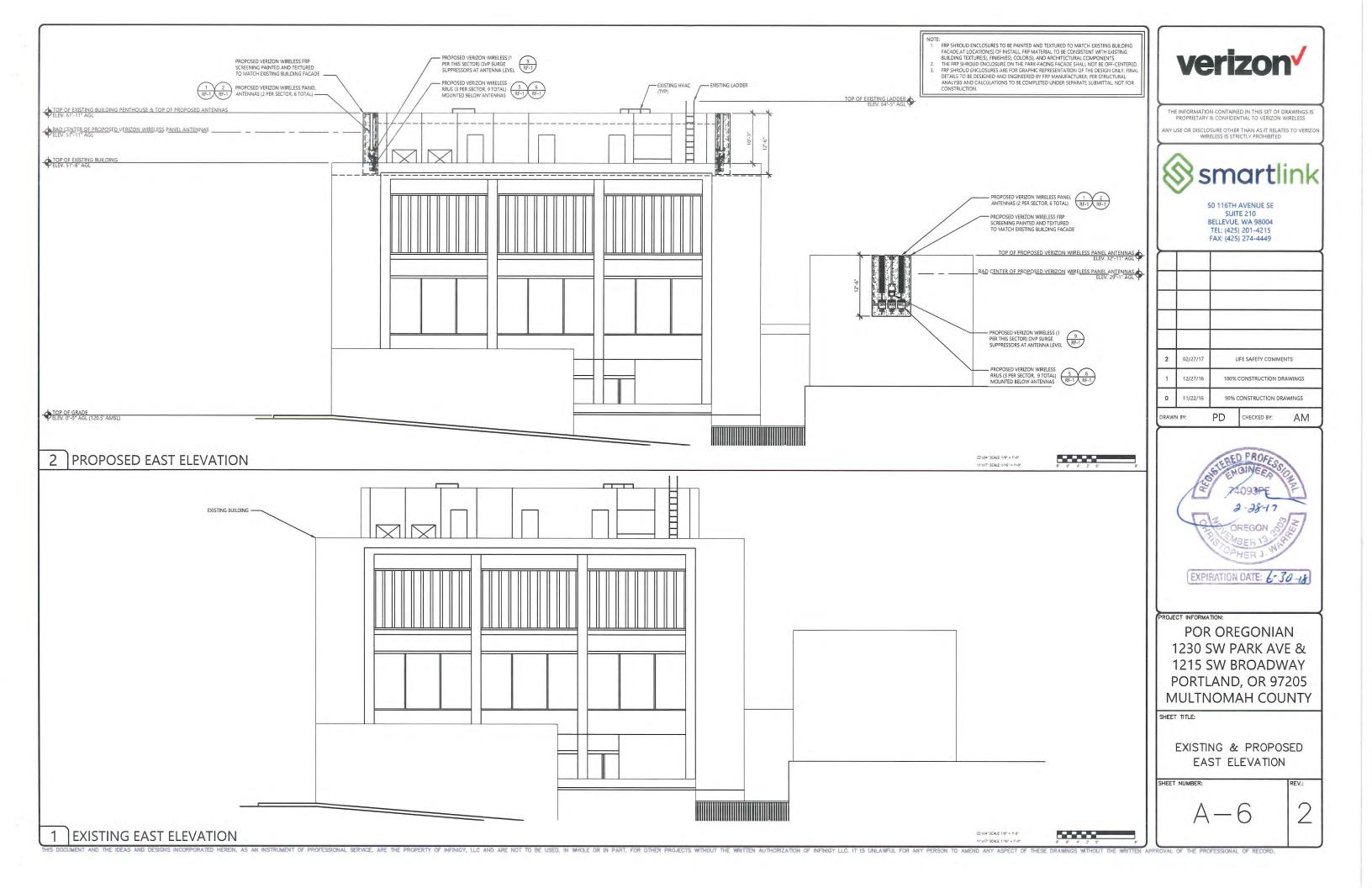












ATTACHMENT A TO THERMAL RUNAWAY PROCEDURE

HANDLING OVERHEATING BATTERIES OR THERMAL RUNAWAY IN VERIZON WIRELESS

TA COPY OF THIS PAGE SHALL BE LAMINATED OR PLACE IN A PLASTIC SHEET PROTECTOR AND POSTED IN ALL BATTERY AREA

IF YOU ENCOUNTER BATTERIES TOO HOT TO TOUCH OR THAT MAKE HISSING OR WHISTLING

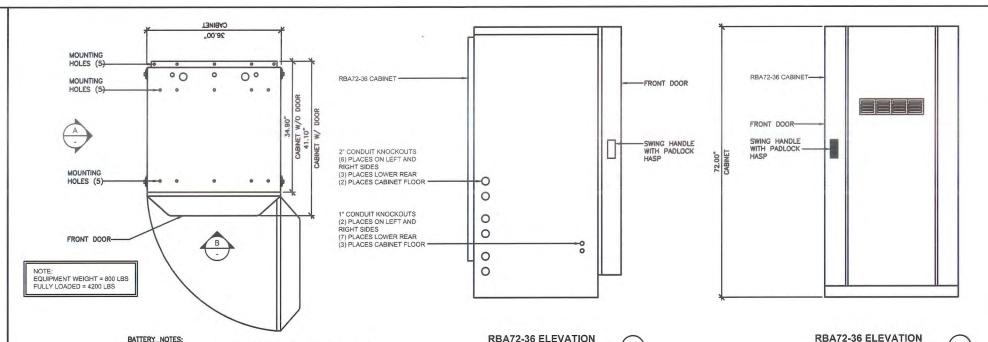
- IF THE FIRE ALARMS ARE GOING.
 IF THERE IS A STRONG ROTTEN EGG ALHYDROGEN SULFIDE ODOR

IMPORTANT TAKE NO ACTION THAT COULD PRODUCE A SPARK AND IGNITE AIRBORNE

IF YOU ENCOUNTER BATTERIES TOO HOT TO TOUCH BUT THERE IS NO SMOKE AND IT IS SAFE

- HOTLINE AT 1 100 4 17900

DO NOT OVER REACT TO BATTERY EMERGENCIES. BURNING BATTERIES RELEASE DO NOT OVER READ TO BATTER! EMERGENCIES, BORNINGS AT TENTES RELEASE
POTENTIALLY LEATHAL CONCENTRATIONS OF TOTAL GASSES OR OTHER CHEMICALS AND
SHOULD BE HANDLED BY TRAINED FIRST RESPONDERS FIRE DEPARTMENT WITH
APPROPRIATE PROTECTIVE CLOTHING AND SELF CONTAINED BREATHING APPAARATUS



BATTERY NOTES:

TERMINAL .

CONTAINER:

N M12V155FTX - VALUE REGULATED LEAD-ACID BATTERY OPTIMIZED

ALLOY:

NOMINAL VOLTAGE: 12 VOLTS NOMINAL CAPACITY: 155 AMP-HOURS; 8 HOUR RATE TO 1.75 VOLTS PER CELL @ 25°C (77°F)
POSITIVE: LEAD, TIN, CALCIUM AND SILVER
NEGATIVE: LEAD CALCIUM

FRONT ACCESSIBLE, HEAVY DUTY THREADED (M6) COPPER ALLOY
REINFORCED FLAME RETARDANT POLYPROPYLENE

SAFETY VENT:

FLOAT VOLTAGE:

DIMENSIONS:

WEIGHT:

ONE-WAY, SELF-RESEALING VENT. RECESSED DESIGN ACCOMMODATES APPLICATIONS REQUIRING CENTRAL DEGASSING 2.25 VPC TO 2.30 VOLT PER CELL RANGE.

RECOMMENDED 2.27 VPC @ 25°C (77°F)
22" (559 MM) LENGTH X 4.90" (124 MM) WIDTH X 11.15" (283 MM) HEIGHT 119 LBS (53.8KG)

LEAD WEIGHT: SULFURIC ACID WEIGHT: SULFURIC ACID VOLUME:

QUANTITY BATTERIES:

ELECTROLYTES:

12 23.8 LBS (2.17 GAL) PER BATTERY, 26.04 GALLONS TOTAL ON SITE 36.8 kg (81.0 lbs)

4.53 kg (9.98 lbs) 2.46 I (0.65 gal)

11"x17" SCALE: 3/8" = 1"-0"

22"x34" SCALE: 1" = 1"-0"



В

THERMAL RUNAWAY PROCEDURE | 3 | BATTERY CABINET SPECIFICATION

PROJECT BATTERY SYSTEM DATA

RATTERY TYPES NO. OF BATTERIES

4

VALVE REGULATED LEAD ACID TVRLA 20 YEAR 30 (PER CARINET) (15 STRINGS) COD TECHNOLOGIES POWER SOLUTIONS

MANUFACTURER MODEL NO.

N/A

DIMENSIONS

22.01"W 12.60"H 4.95"DP

OF CELLS PER UNIT

GRID TYPE

SPILL CONTROL

SPECIFIC GRAVITY LEAD WT PER ELECTROLYTE WT PER ELECTROLYTE VOLUME ELECTROLYTE VOLUME PER CELL (GAL) 102.37 37.62

N/A

3.40

N/A

102

BATTERY REQUIREMENTS

	NONRECOM	IINANT BATTERIES	NONRECOMINANT BATTERIES					
REQUIREMENTS	FLOODED LEAD ACID BATTERIES	FLOODED NICKEL-CADMIUM (NI-Cd) BATTERIES	VALVE REGULATED LEAD ACID (VRLA) BATTERIES	LITHIUM-ION CELL				
SAFETY CAPS	N/A	N/A	YES (608.2.2)	N/A				

THERMAL RUNWAY	N/A	N/A	YES (608.3)	N/A	
----------------	-----	-----	-------------	-----	--

N/A COMMENTS:SPILL CONTROL NOT REQUIRED BY IFC FOR THIS TYPE OF BATTERY, HOWEVER THE CITY OF PORTLAND REQUIRES SPILL CONTROL FOR BATTERIES CONTAINING MORE THAN 50 GALLONS OF ACCUMULATIVE ELECTROLYTE VOLUME.

NEUTRALIZATION	N/A	N/A	YES (608.5.2)	N/A
			TURED FOR SUCH PURP	

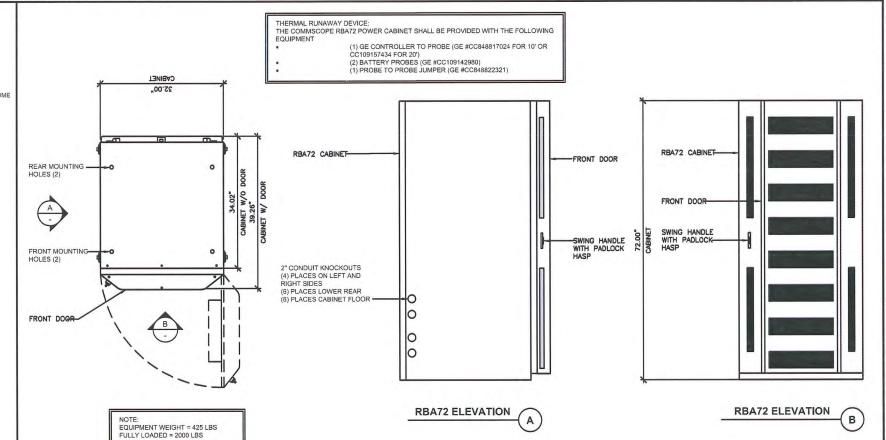
VENTILATION N/A YES (808.8.1, 808.8.2) N/A COMMENTS CONTINUOUS VENTILATION SHALL BE PROVIDED AT A RATE OF NOT LESS THAN 1 CUBIC COMMENSICIONINOUS VENICATION STALL BE PROVIDED AT A RATE OF NOT LESS THAN 1 COBIC POOT PER MINUTE PER SQUARE FOOT (1 FT3/MIN/FT2) AS NOTED IN IFC 506.6.1 NO. 2. ENVIRONMENTAL CONTROLS ASSOCIATED WITH PROPOSED ENCLOSURE HAVE BEEN SHOWN TO MEET REQUIRED CODE REQUIREMENTS.

SIGNAGE	N/A	N/A	N/A YES (608.7)							
COMMENTS: CODE SPECIFIED BATTERY SAFETY SIGNAGE, HAZARDOUS MATERIAL SIGNAGE (4 DIAMOND) AND THERMAL RUNAWAY PROCEDURE SIGNAGE SHALL BE CLEARLY POSTED IN ALL BATTERY AREAS.										
SEISMIC PROTECTION	N/A	N/A	YES (608.8)	N/A						

COMMENTS: BATTERY STORAGE ENCLOSURE CABINET AND ANCHORAGE ARE BEEN DESIGN TO EXCEED ALL IBC CODE REQUIRED SEISMIC FORCES FOR SITE SPECIFIC INSTALLATIONS. SMOKE DETECTION N/A N/A YES (608.9)

COMMENTS IN/A OUTDOOR APPLICATION

CODE REFERENCES ARE TO 2014 INTERNATIONAL FIRE CODE FOR STATIONARY STORAGE BATTERY SYSTEMS.



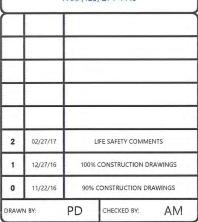


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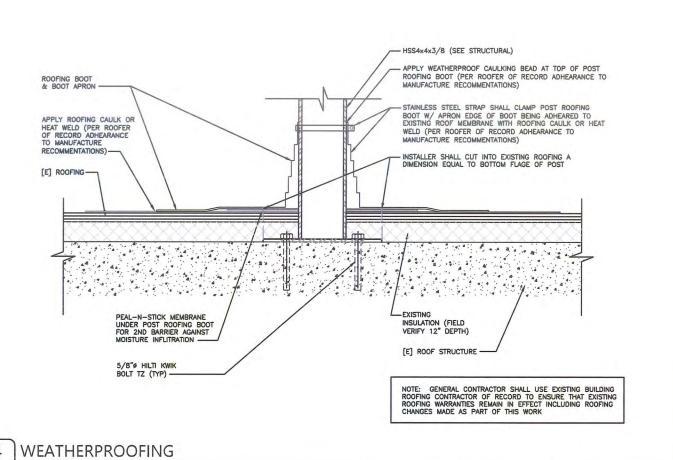
POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

SHEET TITLE:

CONSTRUCTION **DETAILS**

SHEET NUMBER

2 BATTERY SYSTEMS IMPORMATION POWER CABINET SPECIFICATION BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF INFINIGY LLC, IT IS UNLAWFUL FOR ANY PERSON TO AMEND ANY ASPECT OF THESE DRAWINGS WITHOUT



NOTE:
MICROFLECT COAX GRATING BRIDGE KIT
INCLUDES PVC SLEEPERS AND STEEL GRATING
COVER WITH MOUNTING HARDWARE
PART #SP1542 (** COAX) OR APPROVED EQUAL
#SP1543 (** COAX) OR APPROVED EQUAL
#SP1535 (12 COAX) OR APPROVED EQUAL

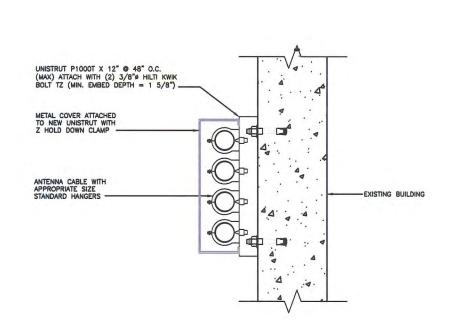
FASTEN COAXIAL CABLE WITH SITE PRO 1
SNAP—IN CLIPS PART NUMBER VARIES BY
COAXIAL CABLE USED OR APPROVED EQUAL

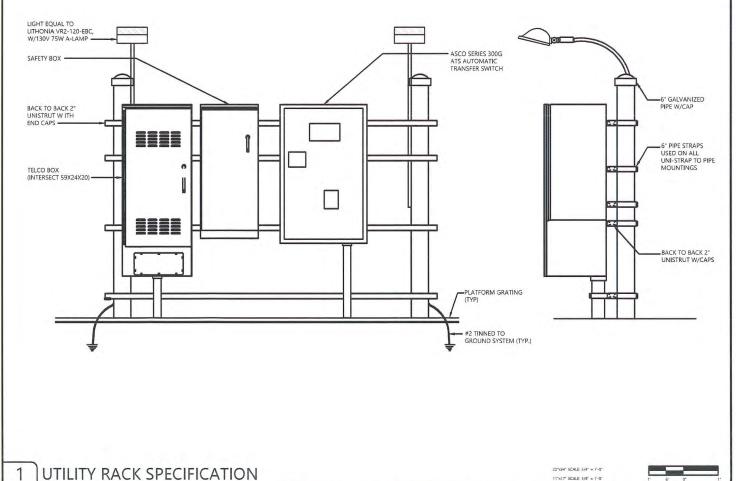
STEEL GRATING COVER WITH NON—SLIP
SURFACE. SITE PRO 1 PRODUCT OR
APPROVED EQUAL (SEE NOTE)

RUBBER MAT SITE PRO 1 PART
#MAT16 OR APPROVED EQUAL, CUT
TO SLEEPER SITE, SET MAT IN MASTIC
BED TO PREVENT MOVEMENT

4" X 4" X 12" PVC SLEEPER SITE PRO 1
PART #SLPRA OR APPROVED EQUAL,
INSTALL EVERY 6"O" CO. WHEN
MOUNTING TO ROOS SET SLEEPER IN

3 CABLE TRAY SPECIFICATION







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_		
2	02/27/17	LIFE SAFETY COMMENTS
1	12/27/16	100% CONSTRUCTION DRAWINGS
0	11/22/16	90% CONSTRUCTION DRAWINGS

N BY: PD CHECKED BY: AM



PROJECT INFORMATION:

POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER:

A - 8

1

2 VERTICAL CABLE TRAY

1 UTILITY RACK SPECIFICATION

2298/ SCAR 3/4* - 1-07
11517 SCAR 3/8* - 1-07
11517 SCAR 3/8





TEL

12-1022







TEL12-160FW TEL12-160F TEL12-180F





THE MOMENT OF TRUTH HAS ARRIVED

TRUE Performance - 100% out of box capacity ratings at installation TRUE Front Access Terminals - ensuring reliability & connection versatility TRUE High Energy Density - highest true energy density solution in the market TRUE Long life design - Telcordia SR-4228 industry leading 13 year service life TRUE Seismic System - highest capacity energy storage system seismic NEBS tested TRUE Flexibility - multiple models to fit each customers unique power system demands

PRODUCT LINE EXTENSION TO C&D TEL VALVE REGULATED LEAD ACID (VRLA) BATTERY SERIES

APPLICATIONS

- Wireline
- Wireless
- Customer Premise / PBX
- Broadband
- · Microwave Repeater
- · Fiber Optic Regen Sites

INDOOR/OUTDOOR **INSTALLATIONS**

- Cabinet Systems
- Rack Systems

FEATURES & BENEFITS

- Long life alloy and design Telecordia certified exceeding 13 years service life.
- Tested and qualified by Telecordia to meet SR-4228 requirements.
- increased safety.
- Terminal versatility ease of diagnostic readings with Ohmic Ring*
- Reduced headspace driving higher energy density, in cabinet or rack
- Removable handles for ease of installation
- Innovative front terminal design maximizing energy density with direct connect extrusion fusion weld technology.
- Thermally welded case-to-cover bond to ensure a leak-proof seal.
- Flame-retardant polypropylene case and cover compliant with UL94 V-O with an Oxygen Limiting Index of greater than 28.

- · Absorbent Glass Mat (AGM) technology for efficient gas recombination 99% plus.
- · Flame-arresting, one way pressure relief vent for safety and long life.
- · UL-recognized component.
- · Multicell design for ease of installation and maintenance.
- · Not restricted for air transport Complies with IATA/ICAO Special Provision A67.
- · Not restricted for surface transport classified as non-hazardous material as related to DOT-CFR Title 49 parts
- · Not restricted for water transport classified as non-hazardous material per Amendment 27

SPECIFICATIONS

Ampere Hour Capacity to 1.75 Volts per Cell @ 77°F (25°C)

Discharge in Hrs.

Model	1	2	3	4	- 5	6	7	â	9	10	12	16	20	24	36	48	72	100
TEL12/160FW	111.1	127A	137.2	143.8	149.0	153.1	156.7	159.7	1621	164.1	167.8	1729	1768	1798	185.4	189.0	193.2	195.8
TEL12160F	107.1	124.4	134.6	141.5	146.7	150.8	154.3	157.3	1595	161.5	164.7	169.4	1726	174.9	1792	181.4	183.4	183.8
TBL12/180F	120.1	1405	155.2	163.2	169.2	174.0	177.9	181.2	184.0	186.4	190.4	1963	200.3	203.3	208.9	211.9	214.6	215.5

Operating Temperature Range with temperature compensation	Discharge: -40°F (-40°C) to +160°F (71°C) Charge: -10°F (-23°C) to +140°F (60°C)							
Nominal Operating Temperature Range	+74*F (23°C) to +80°F (27°C)							
Recommended Maximum Charging Current Limit	C ₂₀ /5 Amperes (40.1A for TEL12-180F; 34.5A for TEL12-160F; 35.3A for TEL12-160FW)							
Float Charging Voltage	13.5 to 13.8 VDC average per 12V unit							
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Max voltage allowed = 1.4% RMS (4% P-P) Max current allowed = C ₂₀ /20							
Self Discharge	Battery can be stored up to 6 months at 77°F (25°C) before a freshening charge is required. Batteries stored at temperatures greater than 77°F (25°C) will require recharge sooner than batteries stored at lower temperatures. See C&D bulletin 41-7272, Self-Discharge and Inventory Control for details.							
Equalize charge and cycle service voltage	14.40 to 14.80 VDC average per 12V unit @ 77°F (25°C)							
Terminal: Inserted - Inter-unit connector provided	Threaded copper alloy insert terminal to accept 1/4-20 UNC bolt							
Terminal Hardware Initial Torque:	110 inlbs. (12.4 N-m)							
Telcordia Part Numbers	Battery Part Number CLEI Code CPR TEL12-160FW PBMBC10FRA 212312 TEL12-160F PBMBB10FRA 212304 TEL12-180F PBMBD10FRA 212314							

Battery			Ampere Hour Capacity 10 Hour Rate @ 68°F (20°C) to 1.80 v/c		Short Circuit Current	Ohms Impedance 60 Hz (Ω)	Battery Weight
TEL12-160FW	12 V Manablas	160 Ah	153 Ah	800 Amperes	5600 Amperes	0.0027 Ohms	121 bs / 55 kg
TEL12-160F	12 V Monoblac	157 Ah	151 Ah	800 Amperes	4700 Amperes	0.0031 Ohms	115 bs/53 kg
TEL12-180F	12 V Monoblac	181 Ah	174 Ah	800 Amperes	4500 Amperes	0.0037 Ohms	131 bs / 60 kg



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2	02/27/17	u	FE SAFETY COMME	NTS
1	12/27/16	100%	CONSTRUCTION DE	RAWINGS
0	11/22/16	90% C	ONSTRUCTION DR	AWINGS
DRAW	N BY:	PD	CHECKED BY:	AM

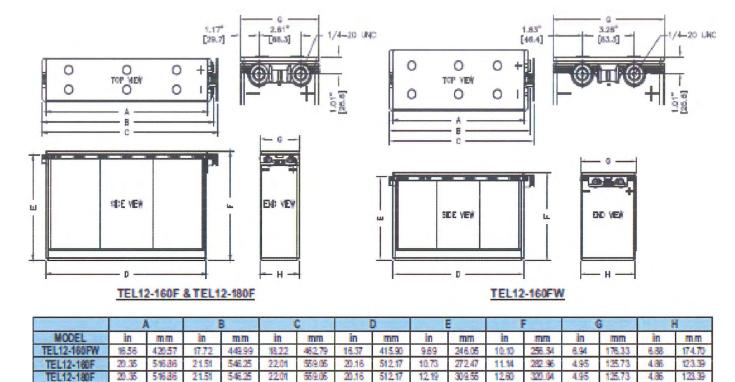


POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

SHEET TITLE:

BATTERY SPECIFICATIONS

DIMENSIONS



^{*}All dimensions in inches and (millimaters). All dimensions another reference only. Contact a CSD Representative for complete dimensions information.

CONSTANT CURRENT RATINGS - AMPERES @ 77°F (25°C)

TEL12-160 PW									Operating	Time the	1							
End point volts/bell	1	2	3	4	5	15	7	å	9	10	12	16	20	24	36	45	72	100
1.75	1111.7	63.7	45.7	36.0	29.3	266	224	200	180	16.4	14.0	10.8	8.8	7.5	5.2	39	27	28
1.80	107.1	62.0	44.7	35.3	293	25.1	220	197	17.7	16.2	13.8	10.5	8.7	7.4	5.1	39	25	1.9
1.85	39.2	2.5	42.6	33.7	25.0	24.1	212	189	17.1	15.6	13.3	10.3	8.4	7.1	4.5	3.7	25	1.8
1.90	E7.0	型.7	EE	30.5	2.8	22.2	196	17.5	158	14.4	12.3	- 85	7.7	6.5	4,4	23	22	1.6

Additional ratings and application information is available in the Battery Selection Program at www.cdstandbyprover.net

TEL12-160F									Operating	Time (hr								
End point voltaited	1		3	100	5	- 6	7		9	10.0	12	16	20	24	35	48	172	100
1.75	107.1	62.2	44.9	25.4	29.3	754	228	197	17.7	96.1	13.7	物店	民店	7.3	5.0	333	25	12
1.80	1027	60.3	43.7	345	288.7	24.5	21.6	193	17.4	15.9	13.5	10.4	8.5	7.2	4.9	3.7	25	1.8
1.86	96.2	55.9	416	33.0	27.5	21.5	20.8	185	167	15.3	13.0	10.0	8.2	6.9	43	3.5	24	1.7
1.90	83.7	51.2	a'.i	30.1	25.2	21.7	18.1	11/4	154	4.1	12.0	9.2	7.5	6.3	43	3.2	21	

Additional ratings and application information is available in the Battery Selection Program at www.odstandbypower.net

TEL12-180F	Operating Time (hr)																	
End point volta/bell	1	2.	3	4	5	- 6	7	8	9	10	12	16	20	24	36	48	72	100
1.75	123.1	71.7	51.7	45.5	33.8	29.0	25.4	226	29.4	18.6	15.9	12.3	10.0	8.5	馬馬		3.0	2.2
1.90	1173	99.6	90.E	40.D	33.3	28.6	25.0	223	20.2	18.4	15.6	12.1	9.8	8.3	馬筋	4.3	29	21
1.85	1075	原 为	48.0	22.3	31.9	27.4	24.1	215	194	17.7	15.1	115	9.5	8.0	5.4	45	27	2.0
1.90	96.1	鐵出	43.8	35.1	29.4	253	223	199	180	16.4	14.0	102	8.8	7.4	5.0	3.7	25	1.8

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		1 AA. (423)	214 4445		
2	02/27/17	LI	FE SAFETY COMME	ENTS	
1	12/27/16	100% CONSTRUCTION DRAWINGS			
0	11/22/16	90% CONSTRUCTION DRAWINGS			
DRAW	N BY:	PD	CHECKED BY:	AM	



PROJECT INFORMATION:

POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

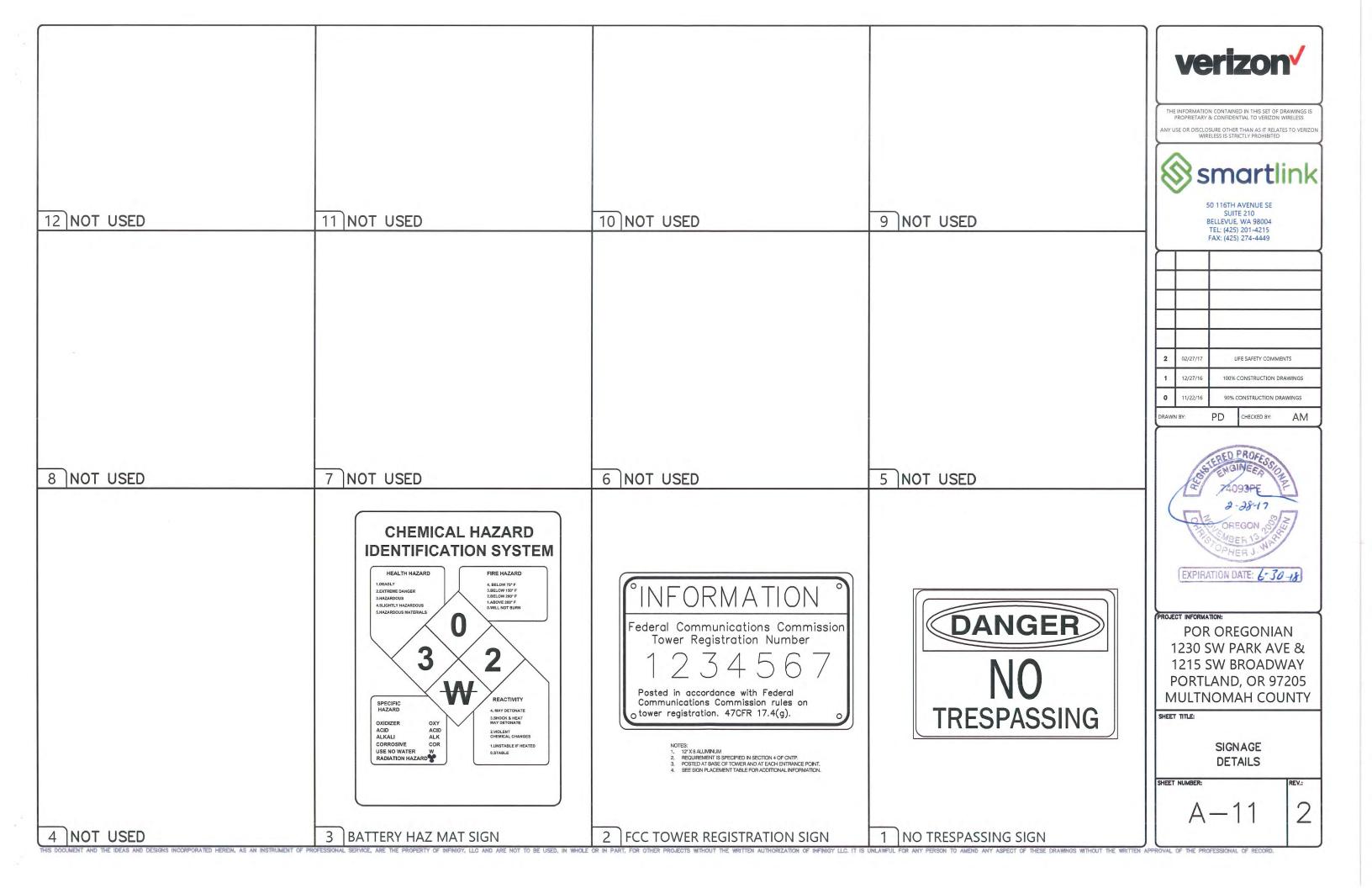
SHEET TITLE:

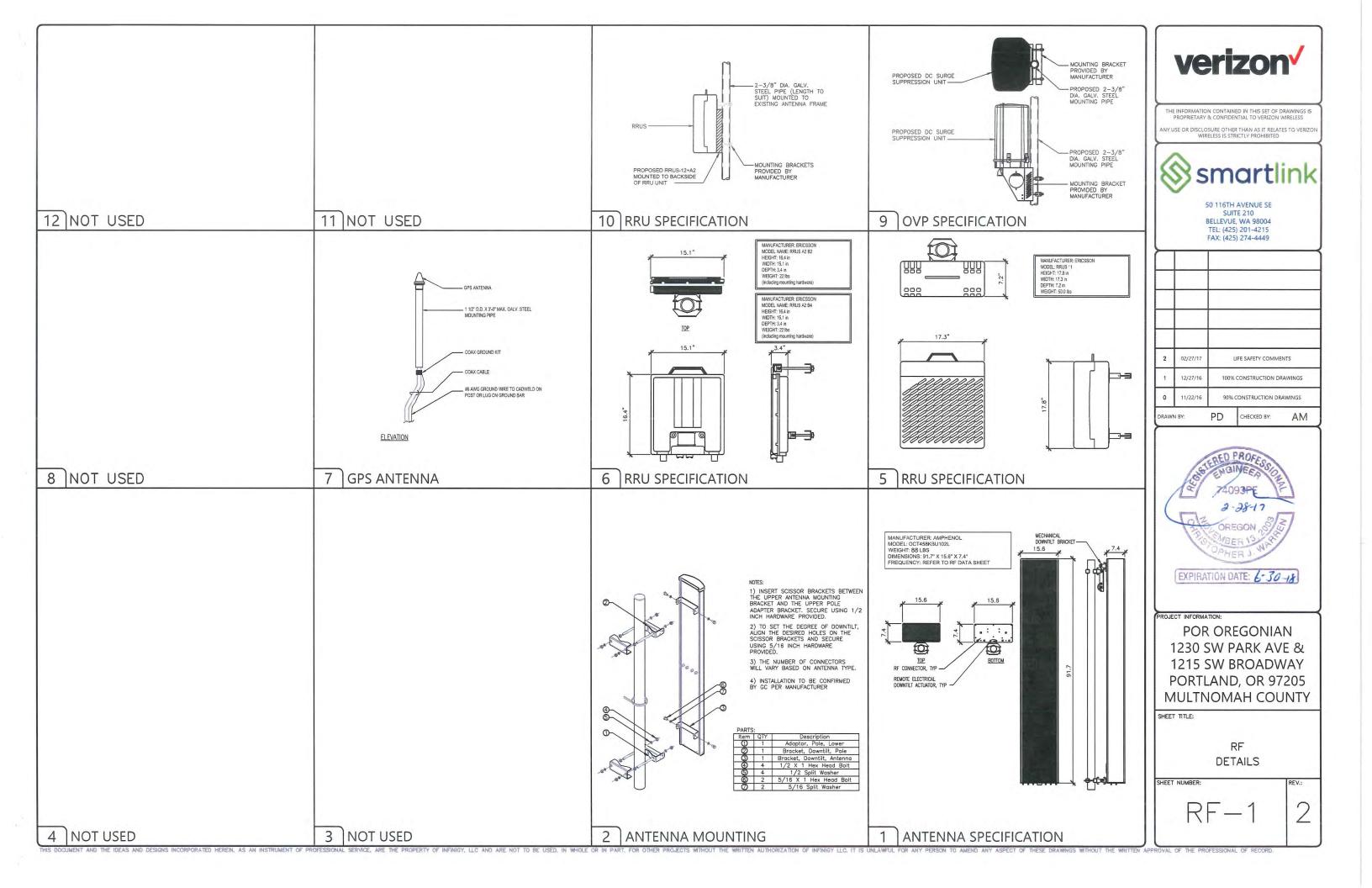
BATTERY SPECIFICATIONS

SHEET NUMBER

A - 10

^{*} Note: Batteries to be mounted with 0.5 IN (12.5mm) apacing minimum and the air ventilation.





GridExport

POR Oregonian																
Updated - 11/28/2016 Name	Antenna Type	Status	Tower Equipment Manufacture	Tower Equipment Model	Sector	Antenna Centerline	Antenna Azimuth	Mechanical Tilt	Electrical Tilt	Cable Type	Cable Diameter	Cable Quantity	Contains 700 Service	Contains 850 Service	Contains 1900 Service	Contains 2100 Service
ANT 700/AWS1/3 LTE	Panel (RET)	Proposed	AMPHENOL	OCT458KBU102L	1	58	10	3	0				All Call Signs	None	None	All Call Signs
ANT 700/PCS LTE	Panel (RET)	Proposed	AMPHENOL	OCT458KBU102L	1	58	10	3	0				All Call Signs	None	Select Call Signs	None
ANT 700/AWS1/3 LTE	Panel (RET)	Proposed	AMPHENOL	OCT458KBU102L	2	29	100	3	0			4	All Call Signs	None	None	All Call Signs
ANT 700/PCS LTE	Panel (RET)	Proposed	AMPHENOL	OCT458KBU102L	2	29	100	3	0				All Call Signs	None	Select Call Signs	None
ANT 700/AWS1/3 LTE	Panel (RET)	Proposed	AMPHENOL	OCT458KBU102L	3	58	250	3	0				All Call Signs	None	None	All Call Signs
ANT 700/PCS LTE	Panel (RET)	Proposed	AMPHENOL	OCT458KBU102L	3	58	250	3	0				All Call Signs	None	Select Call Signs	None
RRH AWS 1/3	RRU	Proposed	ERICSSON	RRUS 32 B66	1	58	0	0	0				None	None	None	None
RRH PCS	RRU	Proposed	ERICSSON	RRUS 32 B2	1	58	0	0	0				None	None	None	None
RRH 700	RRU	Proposed	ERICSSON	RRUS 11 B13 w/A2	1	58	0	0	0				None	None	None	None
RRH 850 (Leased)	RRU	Proposed	ERICSSON	RRUS 2212 + 2212 B5	1	58	0	0	0				None	None	None	None
RRH AWS 1/3	RRU	Proposed	ERICSSON	RRUS 32 B66	2	29	0	0	0				None	None	None	None
RRH PCS	RRU	Proposed	ERICSSON	RRUS 32 B2	2	29	0	0	0				None	None	None	None
RRH 700	RRU	Proposed	ERICSSON	RRUS 11 B13 w/A2	2	29	0	0	0				None	None	None	None
RRH 850 (Leased)	RRU	Proposed	ERICSSON	RRUS 2212 + 2212 B5	2	29	0	0	0				None	None	None	None
RRH AWS 1/3	RRU	Proposed	ERICSSON	RRUS 32 B66	3	58	0	0	0				None	None	None	None
RRH PCS	RRU	Proposed	ERICSSON	RRUS 32 B2	3	58	0	0	0				None	None	None	None
RRH 700	RRU	Proposed	ERICSSON	RRUS 11 B13 w/A2	3	58	0	0	0				None	None	None	None
RRH 850 (Leased)	RRU	Proposed	ERICSSON	RRUS 2212 + 2212 B5	3	58	0	0	0				None	None	None	None
OVP Sector Box	HTTA Box	Proposed	HUBER & SUHNER	6-OVP (3315)	1	58	0	0	0				None	None	None	None
OVP Sector Box	HTTA Box	Proposed	HUBER & SUHNER	6-OVP (3315)	1	0	0	0	0				None	None	None	None
OVP Sector Box	HTTA Box	Proposed	HUBER & SUHNER	6-OVP (3315)	2	29	0	0	0				None	None	None	None
OVP Sector Box	HTTA Box	Proposed	HUBER & SUHNER	6-OVP (3315)	2	0	0	0	0				None	None	None	None
OVP Sector Box	HTTA Box	Proposed	HUBER & SUHNER	6-OVP (3315)	3	58	0	0	0				None	None	None	None
OVP Sector Box	HTTA Box	Proposed	HUBER & SUHNER	6-OVP (3315)	3	0	0	0	0				None	None	None	None
BAS Filter AWS	BAS Filter	Proposed	ISCO	15200-175 AWS	1	58	0	0	0				None	None	None	None
BAS Filter AWS	BAS Filter	Proposed	ISCO	15200-175 AWS	1	58							None	None	None	None
BAS Filter AWS	BAS Filter	Proposed	ISCO	15200-175 AWS	2	29							None	None	None	None
BAS Filter AWS	BAS Filter	Proposed	ISCO	15200-175 AWS	2	29							None	None	None	None

verizon /

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_			
2	02/27/17	L	IFE SAFETY COMMENTS
1	12/27/16	100%	CONSTRUCTION DRAWINGS
0	11/22/16	90% (CONSTRUCTION DRAWINGS



PROJECT INFORMATION:

POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

SHEET TITLE:

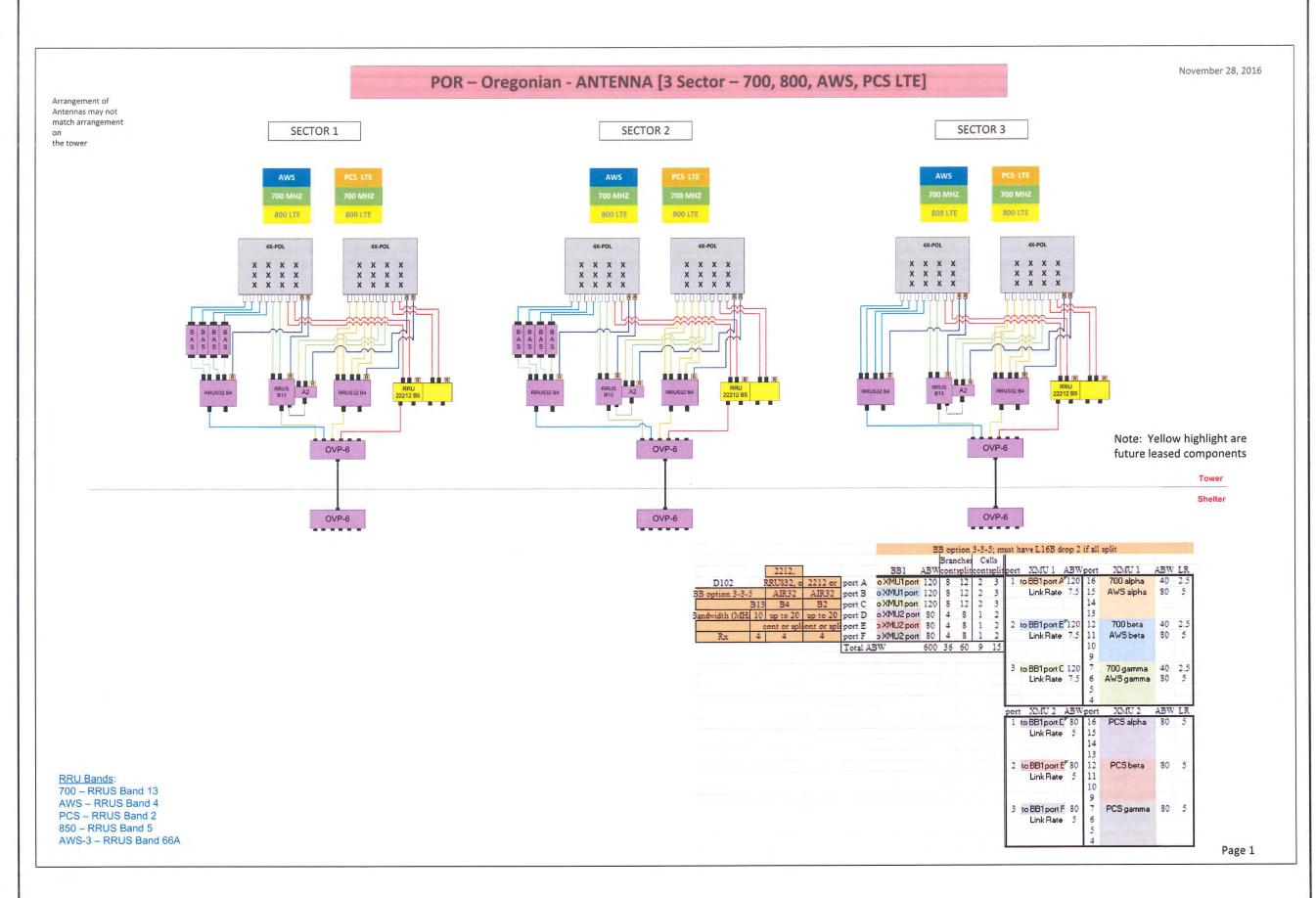
RF INFORMATION

SHEET NUMBER

F_ 2

2

Page 1





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2	02/27/17		LIFE SAFETY COMME	NTS	
1	12/27/16	100	% CONSTRUCTION DR	AWINGS	
0	11/22/16	909	% CONSTRUCTION DR	AWINGS	
DRAW	N BY:	PD	CHECKED BY:	AM	



PROJECT INFORMATIO

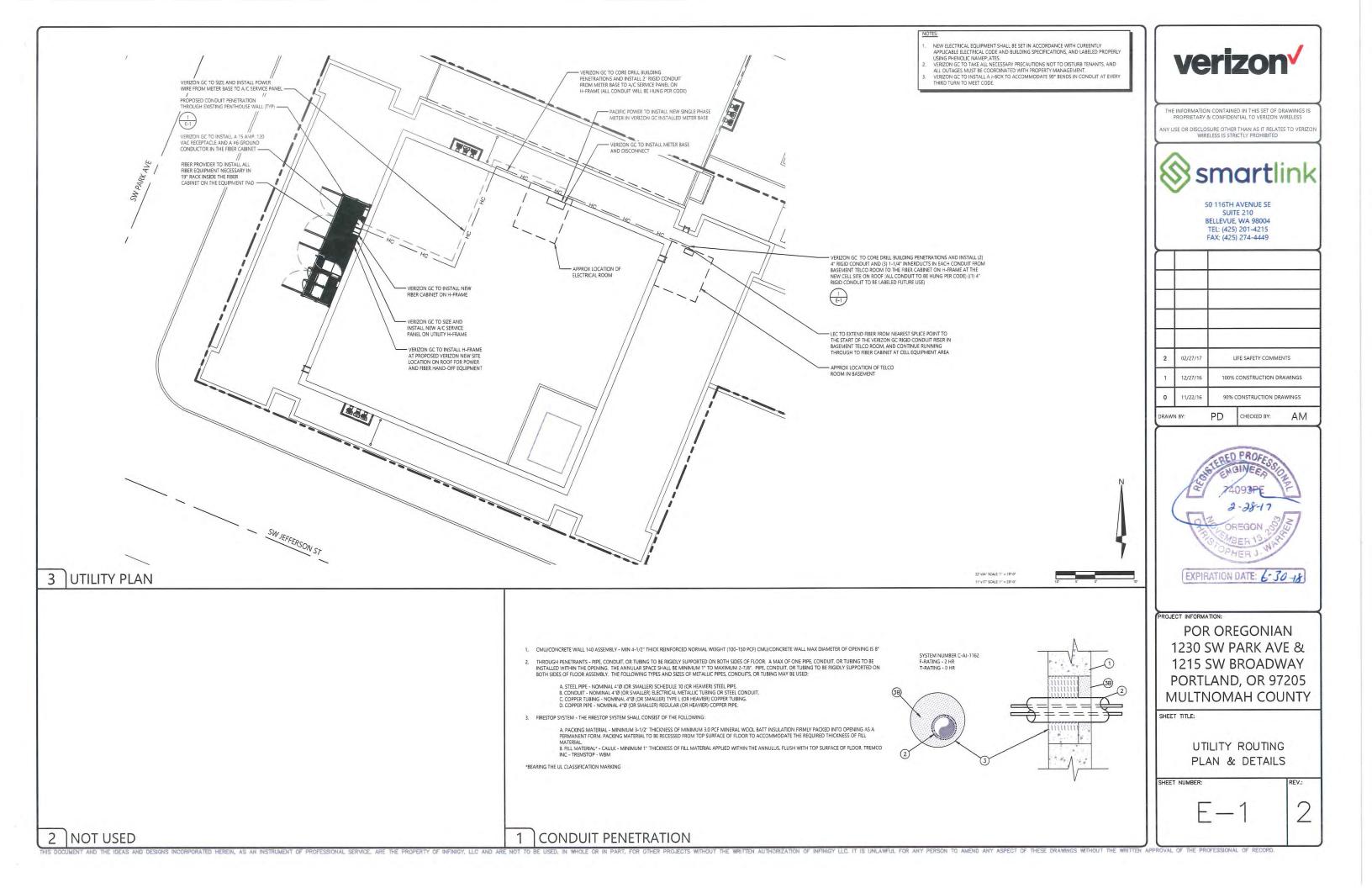
POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

SHEET TITLE:

RF PLUMBING DIAGRAM

SHEET NUMB

RF-3



GROUNDING KEYED NOTES:

- MAIN GROUND BUS BAR MOUNTED ON PLATFORM. SEE DETAIL 5/G-2 FOR GROUND BAR CONSTRUCTION AND 9/G-2 FOR GROUND WIRE CONNECTIONS.
- 2 #6 AWG GROUND FROM PLATFORM TO GROUND BUS BAR.
- $\ensuremath{\mathfrak{F}}$ 6 and ground from Equipment cabinet to equipment ground bar mounted on platform, typ. see detail 9/6-2
- (4) NOT USED
- (5) NOT USED
- 6 CAD WELD (TYP). SEE DETAIL 3/G-2.

ABBREVIATIONS

DRAWING

GENERATOR

RACEWAY

BARE COPPER WIRE

MASTER GROUND BAR
PERSONAL COMMUNICATION SYSTEM

POWER TRANSFER SWITCH

RIGID GAI VANIZED STEEL

FLECTRICAL METALLIC TUBING

INTERIOR GROUND RING (HALO)

INTERMEDIATE METALLIC CONDUIT

RIGID (SCH. 40) POLYVINYL CHLORIDE CONDUIT

BCW

DWG

FMT

GEN

IGR

IMC

MGB

PCS

PTS

PVC

RGS

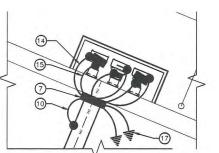
RWY

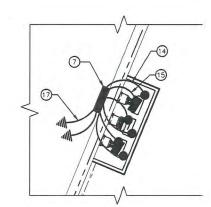
TYP

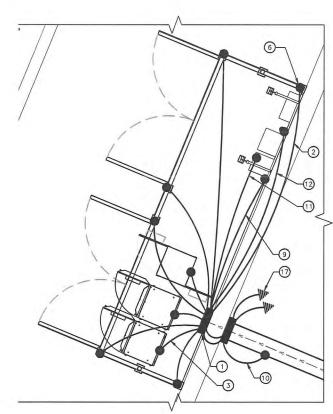
- (7) ANTENNA GROUND BAR, TYP. SEE DETAIL 9/G-2
- (8) #2 AWG GROUND FROM EQUIPMENT GROUND BAR TO GROUND BAR. SEE DETAIL 9/G-2
- 9) #2 AWG GROUND FROM EACH H-FRAME POST TO GROUND BAR. SEE DETAIL 9/G-2
- (10) #2 AWG GROUND FROM CABLE TRAY TO GROUND BAR.
- 11) #2 AWG GROUND FROM TELCO BOX TO MAIN GROUND BAR. SEE DETAIL 9/G-2
- $\stackrel{\text{\scriptsize{(12)}}}{}$ #6 AWG GROUND FROM GPS ANTENNA MOUNT TO ANTENNA GROUND BAR. SEE DETAIL 9/G-2
- 13 NOT USED
- 14 #6 AWG RRU MOUNT GROUND TO ANTENNA GROUND BUS BAR (TYP). SEE DETAIL 4/G-2.
- (15) #6 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BUS BAR (TYP). SEE DETAIL 4/G-2.
- $19\,$ #6 awg surge suppression unit mount ground to antenna ground bar (typ of (3) places). See detail 4/6-2
- CONTRACTOR SHALL VERIFY (2), #2 AWG THHN GROUND LEADS FROM ALL REMOTE INDIVIDUAL BUSES TO BE CONTRACTOR AT ON LOG AND FURTHER ROUTED TO BUILDING STEEL OR OTHER DESIGNATED BUILDING GROUNDING SYSTEM (FINAL DESIGNATED BUILDING TO BE COORDINATED WITH BUILDING OWNER)

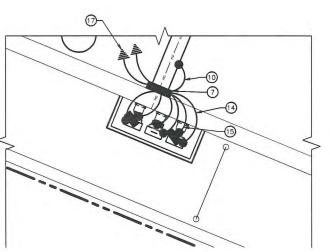
GROUNDING NOTES:

- CONTRACTOR SHALL CAREFULLY REVIEW GROUNDING NOTES AND CONSULT WITH TOWER OWNER FOR SITE SPECIFIC CONDITIONS IF THERE SHOULD BE ANY FURTHER CLARIFICATIONS NEEDED
- 2. VERIZON GROUNDING LEADS COMING FROM BOTH ANTENNAS AND COAX GROUND KITS SHALL BE DIRECTED TO A DEDICATED VERIZON BUS BARS AND SHALL BE LOCATED UP ON A GIVEN POLE OR TOWER NEAR THE BOTTOM OF ANTENNAS BEING DIRECTLY FASTENED TO THE STEEL STRUCTURE WITH STAINLESS STEEL HARDWARE AND / OR ANGLE ADAPTERS (E.G. PIROD / VALMONT GROUNDING BUS BAR PART NUMBER B2981 [VERIZON CONSTRUCTION MANAGER SHALL CONFIRM BUS BAR PART PRIOR TO CONTRACTOR PURCHASE OF PART] BEING ANCHORED TO A MOUNTING BRACKET KIT FOR B2372 OR EQUIVALENT OR BEING MOUNTED WITH UNIVERSAL CLAMP NUMBER B1852 OR EQUIVALENT [W/O CHERRY INSULATORS]).
- ANCHORING OF VERIZON UPPER BUS BAR SHALL NOT EMPLOY THE USE OF DRILLING, WELDING OR CUTTING INTO THE EXISTING POLE OR TOWER (ALL NEW ATTACHMENT BRACKETS SHALL BE CLAMPED OR MECHANICALLY FASTENED TO POLE OR TOWER).
- 4. VERIZON ANTENNA AND COAX GROUND LEADS SHALL TERMINATE AT UPPER BUS BAR W/O INSULATORS AT THE NEAR ANTENNA LOCATION WITH LEADS NOT CONTINUING DOWN THE POLE SHAFT OF TOWER LEG (TOWER STRUCTURE SHALL SERVE AS GROUNDING MEDIUM IN ORDER TO ENSURE THAT ALL EQUIPMENT ON THE TOWER IS ON THE SAME GROUND POTENTIAL MAINTAINING ONE COMMON GROUND PLANE).
- 5. A SECOND VERIZON BUS BARS <u>WITH</u> STAND OFF INSULATORS (E.G. PIROD / VALMONT GROUNDING BUS BAR PART NUMBER B2981 [VERIZON CONSTRUCTION MANAGER SHALL CONFIRM BUS BAR PART PRIOR TO CONTRACTOR PURCHASE OF PART] BEING ANCHORED TO A MOUNTING BRACKET KIT FOR B2372 OR EQUIVALENT OR BEING MOUNTED WITH UNIVERSAL CLAMP NUMBER B1852 OR EQUIVALENT (<u>WITH</u> STANDOFF CHERRY INSULATORS)) SHALL BE ADDED AT THE BASE OF THE TOWER TO CAPTURE ANY ADDITIONAL TOWER SURFACE LIGHTNING RESIDUAL SHEETING WITH A DEDICATED VERIZON GROUND LEAD BEING DIRECTED TO GROUND AND ATTACHED TO THE RISTING TOWER GROUND RING (FINAL LOCATION OF BOTTOM OF TOWER GROUND BUS BAR SHALL BE APPROVED BY TOWER REPRESENTATIVE PRIOR TO INSTALLATION).
- VERIZON GROUND LEAD FROM LOWER VERIZON BUS BAR SHALL BE NO. 2 OR 2/O AWG WIRE AND SHALL ATTACHED TO
 EXISTING POLIE / TOWER GROUND RING WITH PARALLEL THRU WIRE MOLD (E.G. PIROD / VALMONT PART NUMBER 171791
 OR EQUIVALENT).
- 7. VERIZON GROUND LEADS MAY NOT BE ATTACHED TO EXISTING GROUND RINGS WITH ANY CONFIGURATION OTHER THAN THE "PARALLEL THRU WIRE MOLD" WITH THE LEAD SWEEPING INTO THE GROUND RING IN THE CONFIGURATION SHOWN ON THE GROUNDING PLAN.
- 8. VERIZON GROUND LEADS FROM BOTH ANTENNAS AND COAX GROUND KITS WHERE THERE IS AN ESTABLISHED GROUND BUS BAR POSITIONED AT THE TOP OF A NONCONDUCTIVE POLE OR STRUCTURE (E.G. WOOD UTILITY POLES, PRE—CAST CONCRETE POLES, BUILDINGS, FIBERGLASS STRUCTURES, ETC.) SHALL EMPLOY THE USE OF SEPARATE GROUND LEAD CONDUCTORS RUNNING DOWN THE POLE OR STRUCTURE TO A BUS BAR AT THE BASE OF THE POLE OR STRUCTURE AND FURTHER RUNNING INTO AN EXISTING GROUND RING.









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2	02/27/17		LIFE SAFETY COMMENTS	
1	12/27/16	1009	6 CONSTRUCTION DRAWINGS	5
0	11/22/16	90%	CONSTRUCTION DRAWINGS	
DRAW	N BY:	PD	CHECKED BY:	M



PROJECT INFORMATION

POR OREGONIAN 1230 SW PARK AVE & 1215 SW BROADWAY PORTLAND, OR 97205 MULTNOMAH COUNTY

SHEET TITLE:

SCHEMATIC GROUNDING PLAN & NOTES

HEET NUMBER:

G-1

2

ELECTRICAL SYMBOLS

GROUND BAR

GROUND ROD WITH ACCESS

CHEMICAL GROUND ROD

GROUND ROD

DISCONNECT SWITCH

METER

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE

CIRCUIT BREAKER

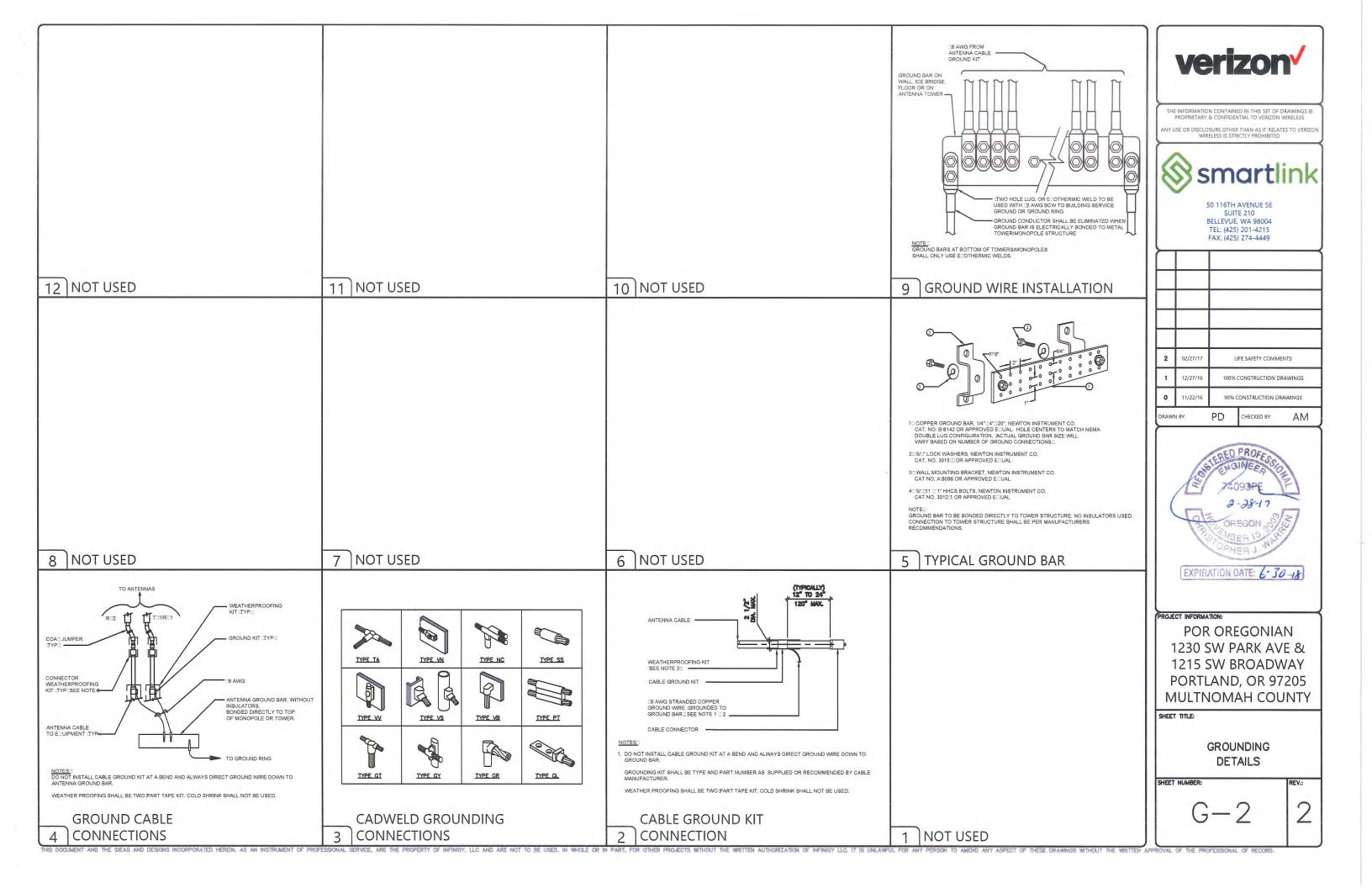
CADWELD TYPE CONNECTION

COMPRESSION TYPE CONNECTION

GROUNDING WIRE

REPRESENTS DETAIL NUMBER
REFERENCE SHEET NUMBER

SCHEMATIC GROUNDING PLAN



GENERAL NOTES:

- THESE DOCUMENTS WERE DESIGNED IN ACCORDANCE WITH THE LATEST VERSION OF APPLICABLE LOCAL/STATE/COUNTY/CITY BUILDING CODES, AS WELL AS ANSI/TIA-222 STANDARD, AWWA-D100 STANDARD, NDS, NEC, MSJC, AND/OR THE LATEST VERSION OF THE INTERNATIONAL BUILDING CODE, UNLESS NOTED OTHERWISE IN THE CORRESPONDING STRUCTURAL REPORT.
- 2. ALL CONSTRUCTION METHODS SHOULD FOLLOW STANDARDS OF GOOD CONSTRUCTION PRACTICE.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS
 EXPERIENCED IN SIMILAR CONSTRUCTION.
- ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. IF OBSTRUCTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD PRIOR TO CONTINUING WORK.
- ANY CHANGES OR ADDITIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL CHANGES OR ADDITIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND ZOR CONSTRUCTION.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY TO PROVIDE A COMPLETE AND STABLE STRUCTURE DURING CONSTRUCTION. TIA-1019-A-2011 IS AN APPROPRIATE REFERENCE FOR THOSE DESIGNS MEETING TIA STANDARDS. THE ENGINEER OF RECORD MAY PROVIDE FORMAL RIGGING PLANS AT THE REQUEST AND EXPENSE OF THE CONTRACTOR.
- INSTALLATION SHALL NOT INTERFERE NOR DENY ADEQUATE ACCESS TO OR FROM ANY EXISTING OR PROPOSED OPERATIONAL AND SAFETY EQUIPMENT.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION. CONTACT INFINIGY ENGINEERING IF ANY DISCREPANCIES EXIST.

STEEL CONSTRUCTION NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION, FOR THE DESIGN AND FABRICATION OF STEEL COMPONENTS.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES, AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS' RECOMMENDATIONS.
- 3. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.
- 4. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
- 5. ALL STEEL MEMBERS AND CONNECTIONS SHALL MEET THE FOLLOWING GRADES:
 - ANGLES, CHANNELS, PLATES AND BARS TO BE A36. Fy=36 KSI, U.N.O.
 W SHAPES TO BE A992 Fy=50 KSI U.N.O.
 - RECTANGULAR HSS TO BE A500, GRADE B. FY=46 KSI, U.N.O.
 - ROUND HSS TO BE A500, GRADE B. FY=42 KSI, U.N.O.
 STEEL PIPE TO BE A53, GRADE B. Fy=35 KSI, U.N.O.
 - BOLTS TO BE A325-X. Fu=120 KSL U.N.O.
- U-BOLTS AND LAG SCREWS TO BE A307 GR A. Fu=60 KSI, U.N.O.
- 6. ALL WELDING SHALL BE DONE USING E80XX ELECTRODES, U.N.O.
- 7. ALL WELDING SHALL CONFORM TO AISC AND AWS D1.1 LATEST EDITION.
- 8. ALL HILTI ANCHORS TO BE CARBON STEEL, U.N.O.
 - MECHANICAL ANCHORS: KWIK BOLT-TZ, U.N.O.
 CMU BLOCK ANCHORS: ADHESIVE HY120, U.N.O.
 - CONCRETE ANCHORS: ADHESIVE HY150, U.N.O.
 - CONCRETE REBAR: ADHESIVE RE500, U.N.O.
- ALL STUDS TO BE NELSON CAPACITOR DISCHARGE 1/4"-20 LOW CARBON STEEL COPPER-FLASH AT 55 KSI ULT/50 KSI YIELD, U.N.O.
- 10. BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
- 11. MINIMUM EDGE DISTANCES SHALL CONFORM TO AISC TABLE J3.4.

CONCRETE CONSTRUCTION NOTES:

- 1. CONCRETE TO BE 4000 PSI @ 28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR IS NOT PERMITTED.
- EXISTING CONCRETE SURFACES THAT ARE TO BE IN CONTACT WITH NEW PROPOSED CONCRETE SHOULD BE WIRE BRUSHED CLEAN AND TREATED WITH APPROPRIATE MECHANICAL SCRATCH COAT AND REPAIR MATERIALS OR APPROPRIATE CHEMICAL METHODS SUCH AS THE APPLICATION OF A BONDING AGENT, EX. SAKRETE OR EQUIVALENT, TO ENSURE A QUALITY BOND BETWEEN EXISTING AND PROPOSED CONCRETE SURFACES.

FIBER REINFORCED POLYMER (FRP) NOTES:

- FRP PLATES, SHAPES, BOLTS AND NUTS (STUD/NUT ASSEMBLIES) SHALL CONFORM TO ASTM D638, 695, 790. PLATES AND SHAPES TO BE FY = 30 KSI (LW), 7 KSI (CW) MIN.
- 2. IF FIELD FABRICATION IS REQUIRED, ALL CUT EDGES AND DRILLED HOLES TO BE SEALED USING VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
- ALL FASTENERS TO BE 1/2" DIA FRP THREADED ROD WITH FIBER REINFORCED THERMOPLASTIC NUT, SPACED AT 12 INCHES ON CENTER MAXIMUM, U.N.O., FOR PANELS AND AS DESIGNED FOR STRUCTURAL MEMBERS.
- THE COLOR AND SURFACE PATTERN OF EXPOSED FRP PANELS SHALL MATCH THE EXTERIOR OF THE EXISTING BUILDING, U.N.O.
- 5. STUD/NUT ASSEMBLIES SHOULD BE LUBRICATED FOR INSTALLATION
- 6. ENSURE BEARING SURFACES OF THE NUTS ARE PARALLEL TO THE SURFACES BEING FASTENED.
- TORQUE BOLTS ACCORDING TO THE FOLLOWING TABLE:

	INSTALLATION TORQUE TABLE					
SIZE	ULTIMATE TORQUE STRENGTH	RECOMMENDED MAXIMUM INSTALLATION TORQUE				
3/8-16 UNC	8 FT-LBS	4 FT-LBS				
1/2-13 UNC	18 FT-LBS	8 FT-LBS				
5/8-11 UNC	35 FT-LBS	16 FT-LBS				
3/4-10 UNC	50 FT-LBS	24 FT-LBS				
1-8 UNC	110 FT-LBS	50 FT-LBS				

- 8. WHEN TIGHTENING FRP STUD/NUT ASSEMBLIES, WRENCHES MUST MAKE FULL CONTACT WITH ALL NUT EDGES. A STANDARD SIX POINT SOCKET IS RECOMMENDED.
- STUD/NUT ASSEMBLIES SHOULD BE BONDED BY APPLYING BONDING AGENT TO ENTIRE NUT AND EXPOSED STUD.
- ALL FRP MATERIALS TO BE PROVIDED BY FIBERGRATE COMPOSITE STRUCTURES, DALLAS TX, OR APPROVED EQUAL.
- 11. ALL FRP SHAPES TO BE DYNAFORM PULTRUDED STRUCTURAL SHAPES.
- 12. ALL FRP PLATES TO BE FIBERPLATE MOLDED FRP PLATE.
- 13. ALL FRP PANELS TO BE FIBERPLATE CLADDING PANEL.
- EACH FRP PANEL TO BE IDENTIFIED WITH LARR#25536 AND FIBERGRATE COMPOSITE STRUCTURAL LABEL.
- FRP MATERIAL TO BE CLASSIFIED AS CC1 OR BETTER, AND HAVE MAXIMUM FLAME SPREAD OF 50.
- ALL DESIGN AND CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH LOS ANGELES RESEARCH REPORT RR25536, DATED FEBRUARY 1, 2016.
- SPECIAL INSPECTIONS MUST BE PROVIDED FOR ALL FRP INSTALLMENTS. SEE SPECIAL INSPECTION SECTION, THIS SHEET.

RATIO OF EDGE DISTANCE TO FRP FASTENER DIAMETER					
	RANGE	RECOMMENDED			
EDGE DISTANCE - CL* BOLT TO END	2.0-4.0	3.0			
EDGE DISTANCE - CL* BOLT TO SIDE	1.5-3.5	2.5			
BOLT PITCH - CL* TO CL*	4.0-5.0	5.0			

WOOD CONSTRUCTION NOTES:

- ALL EXISTING WOOD SHAPES ARE ASSUMED TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN.
- ALL PROPOSED WOOD SHAPES ARE TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN. U.N.O.
- ALL EXISTING AND PROPOSED GLUED LAMINATED TIMBERS ARE TO BE 24F-1.8C DOUGLAS FIR BALANCED WITH A REFERENCE DESIGN BENDING VALUE OF 2400 PSI MIN. U.N.O.

MASONRY CONSTRUCTION NOTES:

- ALL BRICK TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. ALL MORTAR TO BE 2000 PSI MIN.
 - •FOR INTERIOR/ABOVE GRADE APPLICATIONS TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 100 PSI SHALL BE USED. FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 133 PSI.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
- ALL CMU TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS, ALL MORTAR TO BE 2000 PSI MIN.
 - FOR INTERIOR/ABOVE GRADE APPLICATIONS, TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 64 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 158 PSI FOR FULLY GROUTED BLOCKS
 - FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 84 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 163 PSI FOR FULLY GROUTED BLOCKS.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.

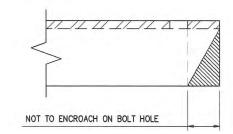
TOWER PLUMB & TENSION NOTES:

- PLUMB AND TENSION TOWER UPON COMPLETION OF STRUCTURAL MODIFICATIONS DETAILED IN THESE DRAWINGS.
- 2. RETENSIONING OF EXISTING GUY WIRES SHALL BE PERFORMED AT A TIME WHEN THE WIND VELOCITY IS LESS THAN 10 MPH AT GROUND LEVEL AND WITH NO ICE ON THE STRUCTURE AND GUY WIRES.
- PLUMB THE TOWER WHILE RETENSIONING THE EXISTING GUY WIRES. THE HORIZONTAL DISTANCE BETWEEN THE VERTICAL CENTERLINES AT ANY TWO ELEVATIONS SHALL NOT EXCEED 0.25% OF THE VERTICAL DISTANCE BETWEEN TWO ELEVATIONS FOR LATTICED STRUCTURES.
- 4. THE TWIST BETWEEN ANY TWO ELEVATIONS THROUGHOUT THE HEIGHT OF A LATTICE STRUCTURE SHALL NOT EXCEED 0.5 DEGREES IN 10 FEET. THE MAXIMUM TWIST OVER THE LATTICE STRUCTURE HEIGHT SHALL NOT EXCEED 5 DEGREES.

SPECIAL INSPECTIONS NOTES:

- A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER AND APPROVED BY THE JURISDICTION, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH THE THE GOVERNING BUILDING CODE, APPLICABLE SECTION(S) AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
- a. STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELDS ONLY).
- b. HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 AND/OR A490 BOLTS) TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD.
- c. MECHANICAL AND EPOXIED ANCHORAGES.
- d. FIBER REINFORCED POLYMER.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT THE FRP MATERIAL SPECIFIED ON THE APPROVED DESIGN DOCUMENTS IS BEING INSTALLED.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT ALL CUT EDGES AND DRILLED HOLES ARE PROPERLY SEALED USING A VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
 - \bullet THE SPECIAL INSPECTOR MUST VERIFY THAT THE STRUCTURE IS BUILT IN ACCORDANCE WITH THE APPROVED DESIGN DOCUMENTS.
- THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM WORK WITHOUT THE SPECIAL INSPECTIONS.

MAXIMUM ALLOWABLE ANGLE CLIP





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	2/45/2047	DEB COMMENTS
0	2/15/2017	PER COMMENTS FOR REVIEW
REV.	DATE	REVISION DESCRIPTION



PROJECT INFORMATION

POR OREGONIAN 1230 SW PARK AVE. PORTLAND, OR 97205 MULTNOMAH COUNTY

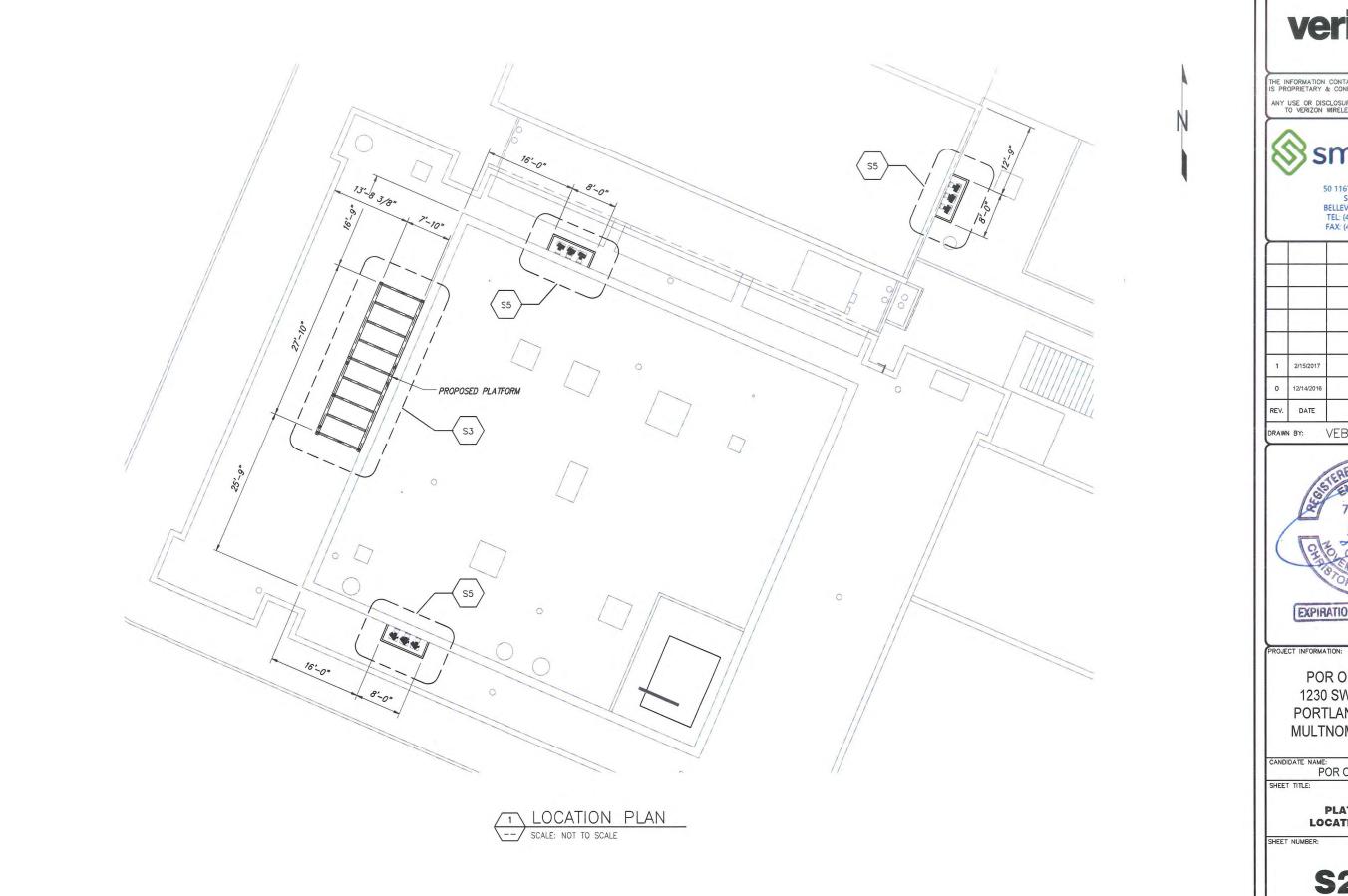
CANDIDATE NAME:
POR OREGONIAN

SHEET TITLE

GENERAL

SHEET NUMBER:

S1



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1	2/15/2017	PER COMMENTS		
0	12/14/2016	FOR REVIEW		
REV.	DATE	REVISION DESCRIPTION		

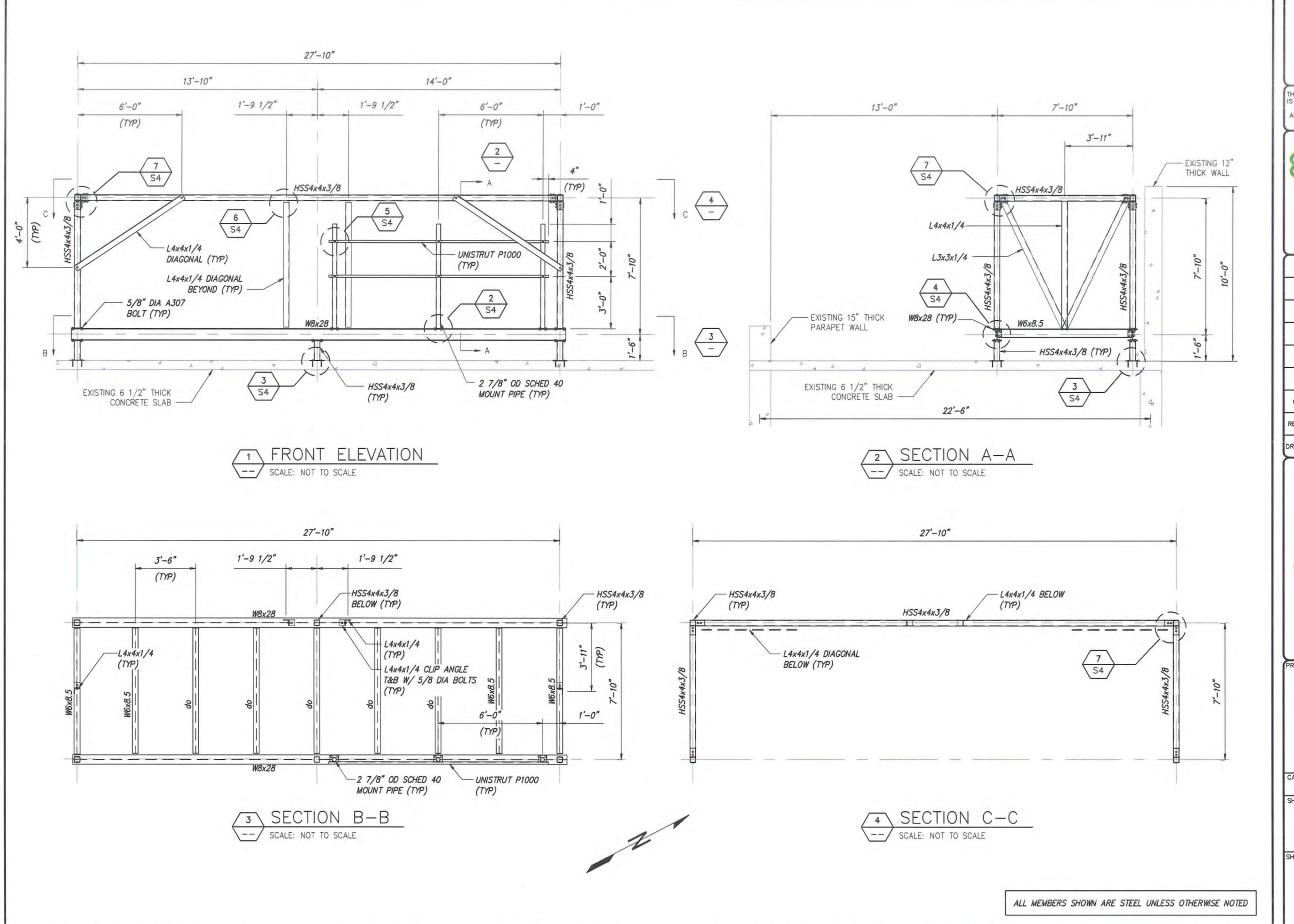


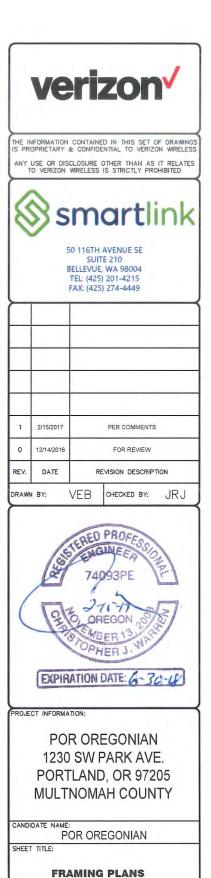
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POR OREGONIAN

PLATFORM LOCATION PLAN

S2

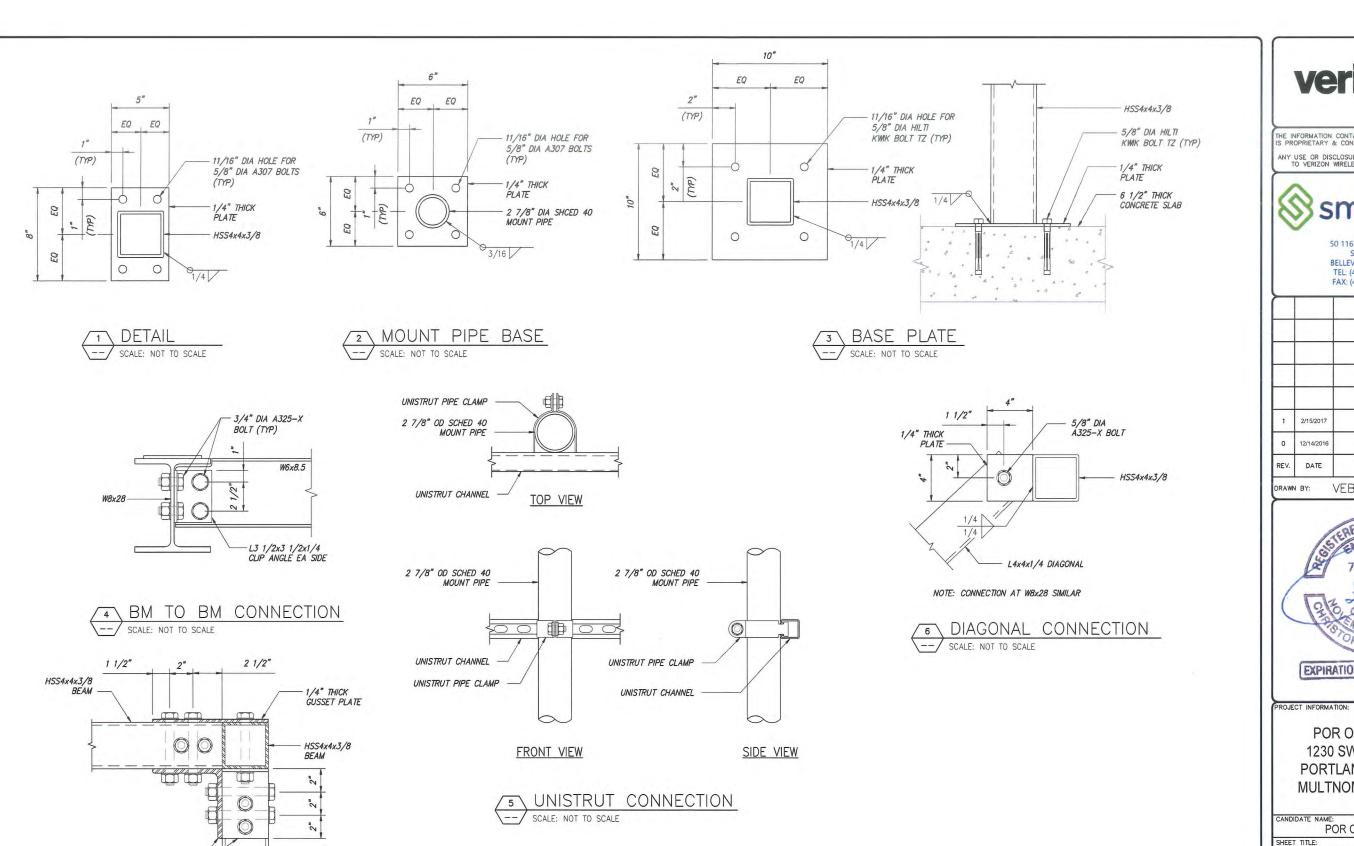




AND ELEVATIONS

S3

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L6x6x3/8

TUBE STEEL CONNECTION

HSS4x4x3/8

ALL MEMBERS SHOWN ARE STEEL UNLESS OTHERWISE NOTED



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PER COMMENTS FOR REVIEW REVISION DESCRIPTION VEB CHECKED BY: JRJ

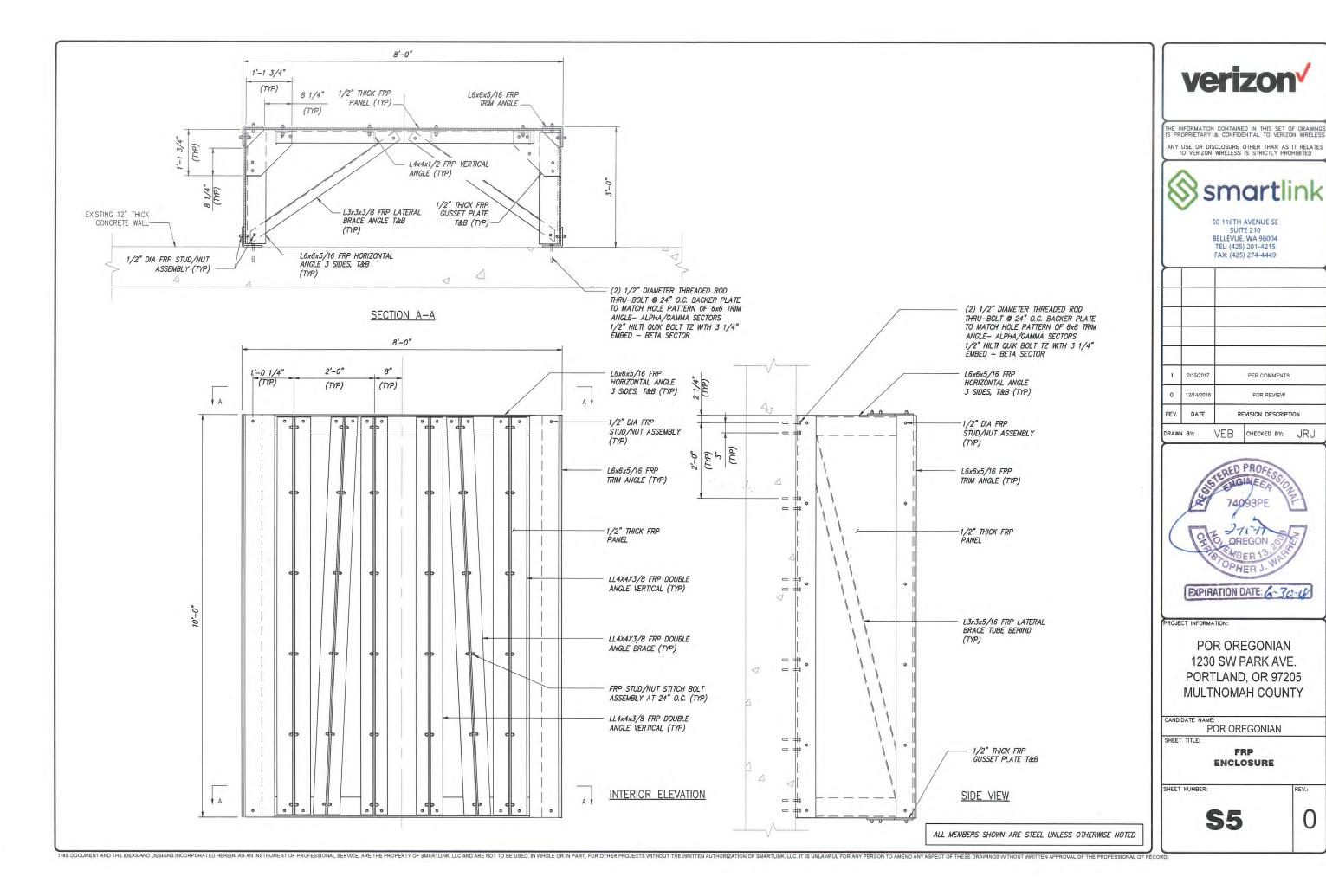


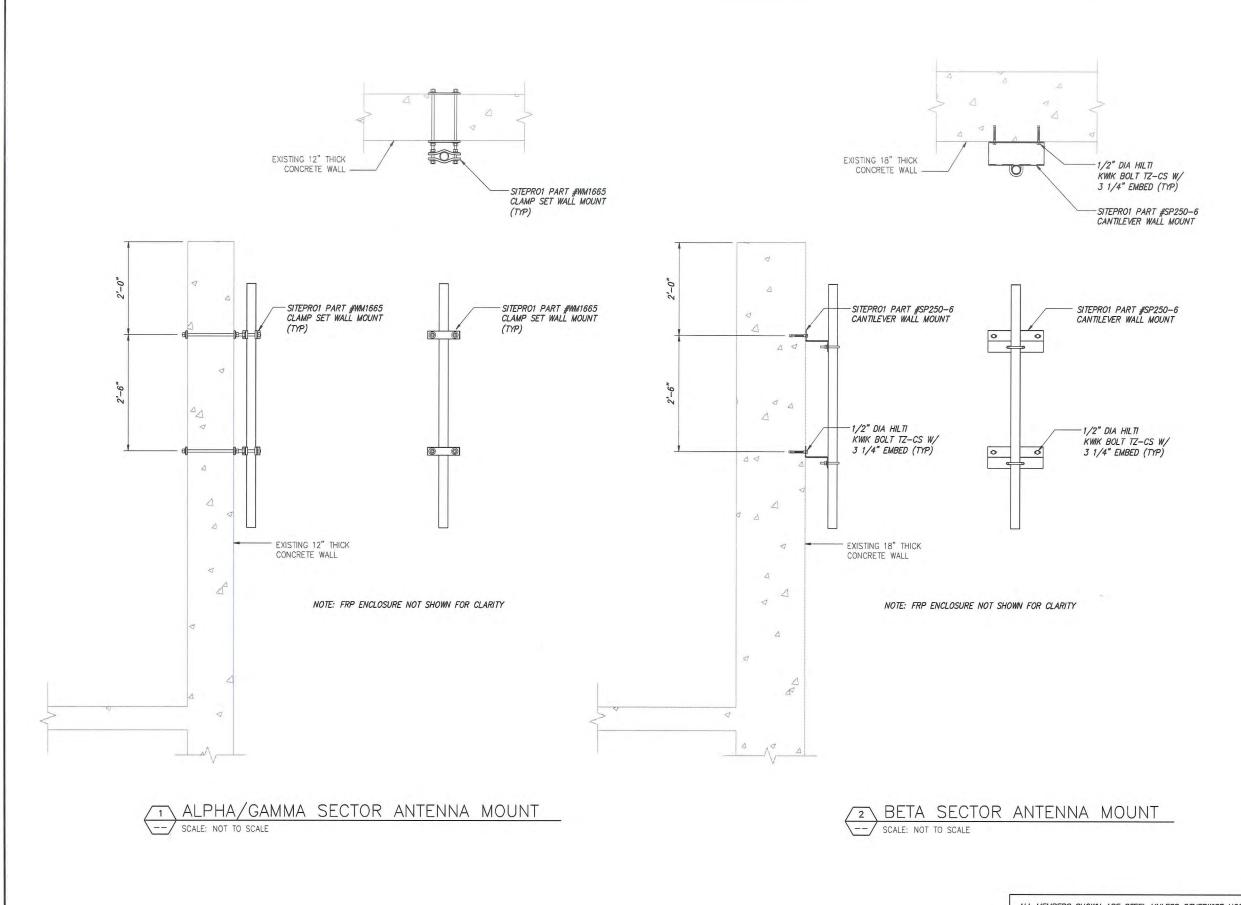
POR OREGONIAN 1230 SW PARK AVE. PORTLAND, OR 97205 **MULTNOMAH COUNTY**

POR OREGONIAN

FRAMING **ELEVATIONS**

SHEET NUMBER **S4**





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1	2/15/2017		PER COMMENTS		
0	12/14/2016	FOR REVIEW			
REV.	DATE	REVISION DESCRIPTION			
DRAW	N BY:	VEB	CHECKED BY: JRJ		



PROJECT INFORMATION:

POR OREGONIAN 1230 SW PARK AVE. PORTLAND, OR 97205 MULTNOMAH COUNTY

CANDIDATE NAME:
POR OREGONIAN

HEET TITLE:

ANTENNA MOUNT DETAILS

SHEET NUMBER:

S6

0

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