

Subject to field inspection

Special Inspections Required

Reviewed for Code Compliance
Kitsap County Building Department
Kitsap County Fire Marshal



VERIZON SITE:
APPLE COVE

ATC SITE:
82912
APPLE COVE

27055 OHIO AVE N.E.
KINGSTON, WA 98346
KITSAP COUNTY

142'-0" SELF SUPPORT TOWER

DRAWINGS ISSUED FOR:				
REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/26/21	RCD	PRELIMINARY REVIEW	TT
0	07/09/21	MH	100% CONSTRUCTION	TT



SHEET TITLE:	
SPECIFICATIONS & NOTES	
SHEET NUMBER:	REVISION:
T-2	0

A. GENERAL

2. CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.
3. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.
4. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED BY VERIZON.
5. ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE VERIZON CONSTRUCTION MANAGER.
6. PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1.
7. FURNISH DROP CLOTHS, SHIELDS, MASKING AND OTHER PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND FACILITIES.
8. APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.
9. APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AND ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.
10. CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE VERIZON CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES THAT ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.

B. PAINTING SCOPE

1. PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED.

PAINTING SCOPE				
SURFACE TO BE PAINTED	COATING SYSTEM	PAINT	DO NOT PAINT	N/A
BTS UNIT				X
ALL EQUIPMENT & CABINETS OTHER THAN THE BTS UNIT				X
ANTENNA COVERS, TILT BRACKETS, MOUNTING BRACKETS AND ASSOCIATED HARDWARE, CABLE AND CABLE COVERS EXPOSED TO VIEW, EXPOSED CONDUIT AND HANGERS, ETC.	SEE PLANS	SEE PLANS		
FLASHING UNITS, METAL TRIM AND OTHER METAL SURFACES				X
STUCCO, CONCRETE, CONCRETE BLOCK AND CEMENTIOUS TYPE FINISH SYSTEMS.				X
PLYWOOD, LUMBER AND WOOD TRIM INCLUDING THE BACK SIDE OF ALL SCREEN WALLS				X
DRYWALL				X
CONCRETE POLES				X
METAL POLES AND METAL POLE STAND-OFF				X

C. ■ COATING SYSTEM SPECIFICATIONS

1. DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1MIL DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B66A50).
2. 100% ACRYLIC, LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER.

D. PAINT & PRIMER

ANTENNAS
PRIMER - KEM AQUA E61-W525
TOPCOAT - COROTHANE II B65W200/B60V22

BTS CABINET
PRIMER - KEM AQUA E61-W525
TOPCOAT - COROTHANE II B65W200/B60V22

COAXIAL JUMPER CABLES
PRIMER - AS REQUIRED FOR ADHESION. APPLY ONE
COAT OF KEM
AQUA WATER REDUCIBLE PRIMER E61W25
REDUCED 25%
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE
B65W200/B60V2

RAW STEEL
PRIMER - KEM BOND HS B50WZ4, DMT ACRYLIC PRIMER
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE
B65W200/B60V2

GALVANIZED METAL
ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR
PRIMER COAT AND
FINISH COAT (GALVITE HIGH SOLIDS OR DTM
PRIMER/FINISH)

STAINLESS STEEL
PRIMER - OTM WASH PRIMER, B71Y1
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE
B65W200/B60V2

PRE-PRIMED STEEL
TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEM
BOND HS,
SS0WZ4

ALUMINUM & COPPER
PRIMER - DTM WASH PRIMER, B71Y1
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE
B65W200/B60V2

CONCRETE MASONRY
PRIMER - PRO MAR EXTERIOR BLOCK FILLER
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN
TO MATCH

CONCRETE STUCCO(EXISTING)
2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH

STUCCO
PRIMER - PRO MAR MASONRY CONDITONER
B-46-W21000
TOPCOAT - SUPERPAINT A-80 SERIES A-89 SATIN A-84
GLOSS

WOOD
PRIMER - A-100 EXTERIOR ALKYD WOO9D PRIMER
Y-24W20
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM SHEEN
TO

MATCH ADJACENT SURFACES

- Special Inspections Required**

 1. THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS (AIA) STANDARD SPECIFICATIONS FOR THE CONTRACT FOR CONSTRUCTION ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.
 2. THIS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM ADA ACCESS REQUIREMENTS.
 3. PRIOR TO SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS TO CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS DESIGNED HEREIN, AS WELL AS TO FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING DEMOLITION, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION. SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY IN WRITING, THE VERIZON CONSTRUCTION MANAGER AND THE ARCHITECT.
 4. IN THE EVENT OF DISCREPANCIES WITHIN THESE DRAWINGS, THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE BY VERIZON. IF A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.
 5. THESE DRAWINGS SHALL NOT BE SCALED AS THESE DRAWINGS ARE INTENDED TO BE FOR DIAGRAMMATIC PURPOSES ONLY. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. CONTRACTOR SHALL CHECK THE ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS, OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
 6. THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR IMPLIED BY THESE DRAWINGS.
 7. CONTRACTOR SHALL NOTIFY THE VERIZON CONSTRUCTION MANAGER, THE PROPERTY OWNER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
 8. EXISTING ELEVATIONS AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE VERIZON CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
 9. THE CONTRACTOR SHALL VERIFY ALL TELEPHONE & RADIO EQUIPMENT LAYOUTS, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND FINAL LOCATIONS WITH VERIZON CONSTRUCTION MANAGER PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH ERICSSON RADIO SYSTEMS.
 10. ALL SYMBOLS & ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE VERIZON CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.
 11. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO VERIZON.
 12. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SURVEILLANCE OF ALL FIELD WORK WHILE ANY SUBCONTRACTORS OR WORKERS ARE ONSITE, USING HIS OR HER BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCES, AND COORDINATION OF ALL PORTIONS OF THE CONTRACTED WORK.
 13. WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:
 - NRCA NATIONAL ROOFING CONTRACTORS ASSOCIATION
O'HARE INTERNATIONAL CENTER
10255 W. HIGGINS ROAD, SUITE 600
ROSEMONT, IL 60018-5607
 - SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS
NATIONAL ASSOCIATION
4201 LAFAYETTE CENTER DRIVE
CHANTILLY, VA 20151-1219
 - IILP INTERNATIONAL INSTITUTE FOR LATH AND PLASTER
820 TRANSFER ROAD
ST. PAUL, MN 55114-1406
 14. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS OTHERWISE INDICATED BY VERIZON, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
 15. THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORTS FOR ALL ITEMS.
 16. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL REQUIRED CONSTRUCTION NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES, AS WELL AS THE STATE DEPARTMENT OF INDUSTRIAL RELATIONS REGULATIONS, INCLUDING BUT NOT LIMITED TO THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (OSHA).
 17. THE CONTRACTOR SHALL PROTECT ALL PROPERTY FROM DAMAGE THAT MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING FINISHES, CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF VERIZON AND THE PROPERTY OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.
 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY, ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY VERIZON UNDER THIS CONTRACT.
 19. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROTECT AND LOCATE, OR CONTACT AN OUTSIDE AGENCY TO LOCATE, ALL EXISTING UTILITIES REGARDLESS OF WHETHER OR NOT SHOWN HEREIN. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR THE REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY VERIZON.
 21. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER, VERIZON, AND THE CITY OR GOVERNING AGENCY.
 22. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION DOCUMENTS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS SHALL BE DONE AFTER THE SITE HAS BEEN AWARDED FINAL INSPECTION BY THE RESPONSIBLE BUILDING

23. THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE CONSTRUCTION SUPERINTENDENT.
24. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS, EXCEPT FOR THAT SPECIFIED AS THE PROPERTY OF THE BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER SITE CLEANING THROUGHOUT CONSTRUCTION AND FINAL CLEAN-UP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY THEN AT A VACUUM CLEAN CONDITION, FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE AT COMPLETION OF WORK.
25. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.
26. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.
27. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY AND PROJECT SITE.
28. 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 THE PROJECT AREA UNDER CONSTRUCTION.
29. ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 810.
30. ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS AT WALL AND ROOF PENETRATIONS SHALL BE CAULKED OR SEALED TO LIMIT INFILTRATION OF AIR AND MOISTURE.
31. UPON COMPLETION OF CONSTRUCTION, VERIZON CONSTRUCTION MANAGER SHALL CONDUCT A WALK-THRU WITH PROPERTY OWNER OR REPRESENTATIVE OF PROPERTY OWNER.
32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEM EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY VERIZON.
33. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATION TAKE PRECEDENCE.

Subject to field inspection

A. GENERAL		C. CONCRETE													
1. PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE.		1. STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:													
A. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.		<table><tr><th>LOCATION</th><th>STRENGTH</th><th>WT.</th><th>SLUMP</th></tr><tr><th></th><th>ADMIXTURE</th><th></th><th></th></tr><tr><td>SLAB&FOOTING</td><td>3000psi NONE</td><td>150pcf</td><td>4"</td></tr></table>		LOCATION	STRENGTH	WT.	SLUMP		ADMIXTURE			SLAB&FOOTING	3000psi NONE	150pcf	4"
LOCATION	STRENGTH	WT.	SLUMP												
	ADMIXTURE														
SLAB&FOOTING	3000psi NONE	150pcf	4"												
B. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.		2. INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500psi SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT BY A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT.													
C. MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.		3. REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PREFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:													
2. OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.		#4 & SMALLER BARS.....GRADE 40 #5 & LARGER BARS.....GRADE 60 ALL BARS AT CAISSON FOOTING...GRADE 60													
3. GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.		4. FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150. PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.													
4. SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS COMPLETED. THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE.		5. AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING:													
5. SAFETY: THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.		A. FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL B. PIER/CAISSON FOOTING: 1" GRAVEL.													
6. WATERPROOFING: WATERPROOFING AND DRAINAGE DETAILS OR SPECIFICATIONS SHOWN IN THESE DRAWINGS ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO NOTIFY THE VERIZON CONSTRUCTION MANAGER AND THE ARCHITECT IF ANY INADEQUATE OR IMPROPER CONDITIONS.		6. SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.													
B. STEEL		7. MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-94. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY.													
1. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.		8. SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE FLOPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, CAISSON, AND DROP CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES, TRUNKS OR PUMP HOSE SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FT.													
2. ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A-325		9. SPLICES OF REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 30 DIAMETERS AND SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.													
3. STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53.		10. REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS, GIRDERS AND COLUMNS SHALL BE TO FACE OF STIRRUPS OR TIES. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE FOR REINFORCING BARS TO FACE OF BAR SHALL BE AS FOLLOWS:													
4. STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.		A. CONCRETE IN CONTACT WITH EARTH, UNFORMED 3"													
5. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD. ALL WELDERS SHALL BE PROPERLY QUALIFIED AND BE PRE-APPROVED. SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH, EVEN SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW. ALL WELDING SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS.		B. CONCRETE IN CONTACT WITH EARTH, FORMED 2"													
6. THE FOLLOWING WELDING EQUIPMENT MUST BE USED: A. 250 AMP WELDERS. B. ROD OVENS. C. GRINDERS.		C. WALL, EXTERIOR FACE 1-1/2"													
7. NO BUZZ BOXES SHALL BE USED.		D. WALL, INTERIOR FACE 1"													
8. ALL STRUCTURAL STEEL SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.		E. STRUCTURAL SLABS 3/4"													
9. ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.		F. JOISTS 3/4"													
10. STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.		G. BEAMS, GIRDERS & COLUMNS 1-1/2"													
11. WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS NOTED "FULL STRESS" AT END OF WELD SYMBOL.		11. PENETRATIONS: NO SLEEVES OR CHASES SHALL BE PLACED IN BEAMS, SLABS, WALLS AND COLUMNS, EXCEPT THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATIONS OF ANY ADDITIONAL SLEEVES OR CHASES. ALL PLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL BE SLEEVES. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.													
		12. EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN COUNDUITS SHALL BE SIX INCHES.													

13. ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DOWELS, INSERTS, ETC., SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. NO REPOSITIONING DURING CONCRETE POUR IS ALLOWED.
14. SLABS SHALL BE SPRAYED WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUNDS USED ON CONCRETE WHERE TILE OR FLOOR COVERING IS TO BE BONDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TILE OR FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR 7 DAY MINIMUM PERIOD.
15. CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT IS BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT.
- D. TIMBER
1. ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO. 1 GRADE DOUGLAS FIR., S45, UNLESS NOTED OTHERWISE.
2. ALL FRAMING LUMBER FOR 2X RAFTERS AND JOISTS SHALL BE NO.2 GRADE DOUGLAS FIR, S45, UNLESS NOTED OTHERWISE.
3. STRIPPING, BLOCKING, BACKING AND OTHER NON-STRUCTURAL LUMBER SHALL BE NO. 2 OR STD & BTR GRADE DOUGLAS FIR, S45. 2X4 STUD WALLS SHALL BE D.F. STANDARD & BTR.
4. ALL BEAMS, JOISTS AND RAFTERS SHALL BE INSTALLED WITH CROWN SIDE UP.
5. ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INDEX RATIO .32/16. EDGE NAIL WITH8d AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FIELD NAIL WITH 8d AT 12" O.C.
6. PLYWOOD SHEETS SHALL BE LAID WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS AND WITH THE EDGES STAGGERED, UNLESS NOTED OTHERWISE ON THE PLANS.
7. PLYWOOD SHALL BE GRADE MARKED BY DFPA, TECO, OR PTL AND SHALL CONFORM TO PS 1-83.
8. THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION.
9. MINIMUM NAILING SHALL COMPLY WITH TABLE 23-1-q OF BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.
10. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.
11. LAG BOLTS SHALL BE SCREWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT.
12. CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SAMSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER.
13. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE WOLMANIZED PRESSURE TREATED LUMBER OR A NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD OR CEDAR.
14. ALASKAN YELLOW CEDAR GLUE-LAMINATED BEAMS
- A. LUMBER SPECIES: ALASKAN YELLOW CEDAR (A.C.) CONFORMING TO 20F-V12
- B. STRENGTH PROPERTIES:
Fb BOTTOM FIBER BENDING STRESS 2000psi MIN.
Fb TOP FIBER BENDING STRESS 1000psi MIN.
Fv SHEAR STRESS 190psi MIN.
Fc COMPRESSION STRESS PERPENDICULAR TO GRAIN 560psi MIN.
C. MODULUS ELASTICITY 1400ksi MIN.
D. CAMBER TO RADIUS OF 1600" U.O.N.
E. ALL GLB'S SHALL BE FABRICATED WITH EXTERIOR GLUE.
F. MANUFACTURE OF GLB'S SHALL CONFORM TO THE UBC.
G. GLU-LAM MATERIAL SHALL BE IN ACCORDANCE WITH ANSI/AITC A190.1 AND ASTM D3737.

Reviewed for Code Compliance
Kitsap County Building Department
Kitsap County Fire Marshal



VERIZON SITE:
APPLE COVE

ATC SITE:
82912
APPLE COVE

27055 OHIO AVE N.E.
KINGSTON, WA 98346
KITSAP COUNTY

142'-0" SELF SUPPORT TOWER

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/26/21	RCD	PRELIMINARY REVIEW	TT
0	07/09/21	MH	100% CONSTRUCTION	TT



SHEET TITLE:
SPECIFICATIONS
& NOTES

SHEET NUMBER:
T-3

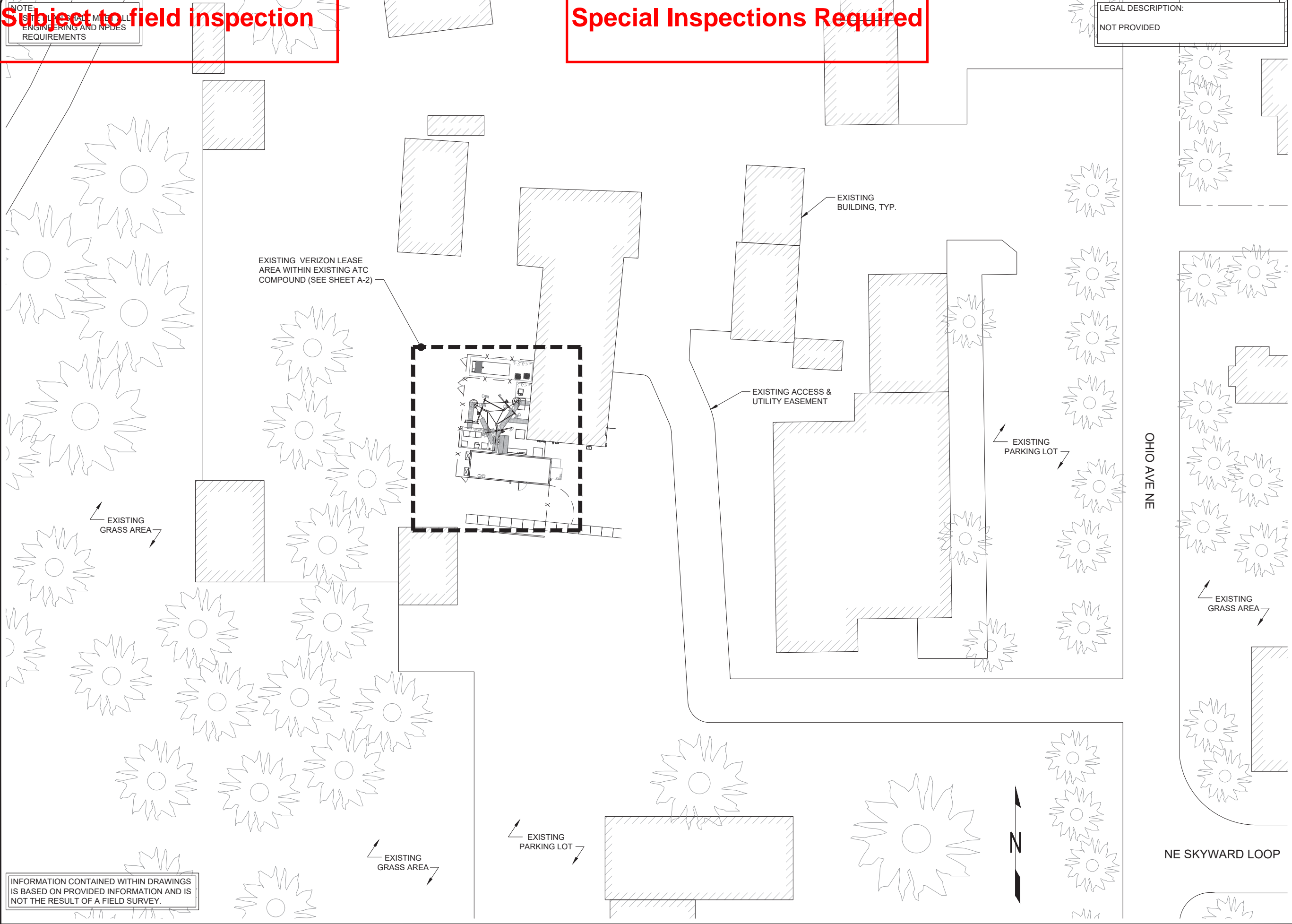
REVISION:
0

2 NOT USED

1 STRUCTURAL SPECIFICATIONS

Subject to field inspection

Special Inspections Required



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Kitsap County Fire Marshal

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BELLEVUE, WA 98008

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VERIZON SITE:
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ATC SITE:
82912
APPLE COVE

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KINGSTON, WA 98346
KITSAP COUNTY

142'-0" SELF SUPPORT TOWER

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REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/26/21	RCD	PRELIMINARY REVIEW	TT
0	07/09/21	MH	100% CONSTRUCTION	TT

CHRISTOPHER J WARREN
STATE OF WASHINGTON
7/9/21
40190
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
OVERALL SITE PLAN

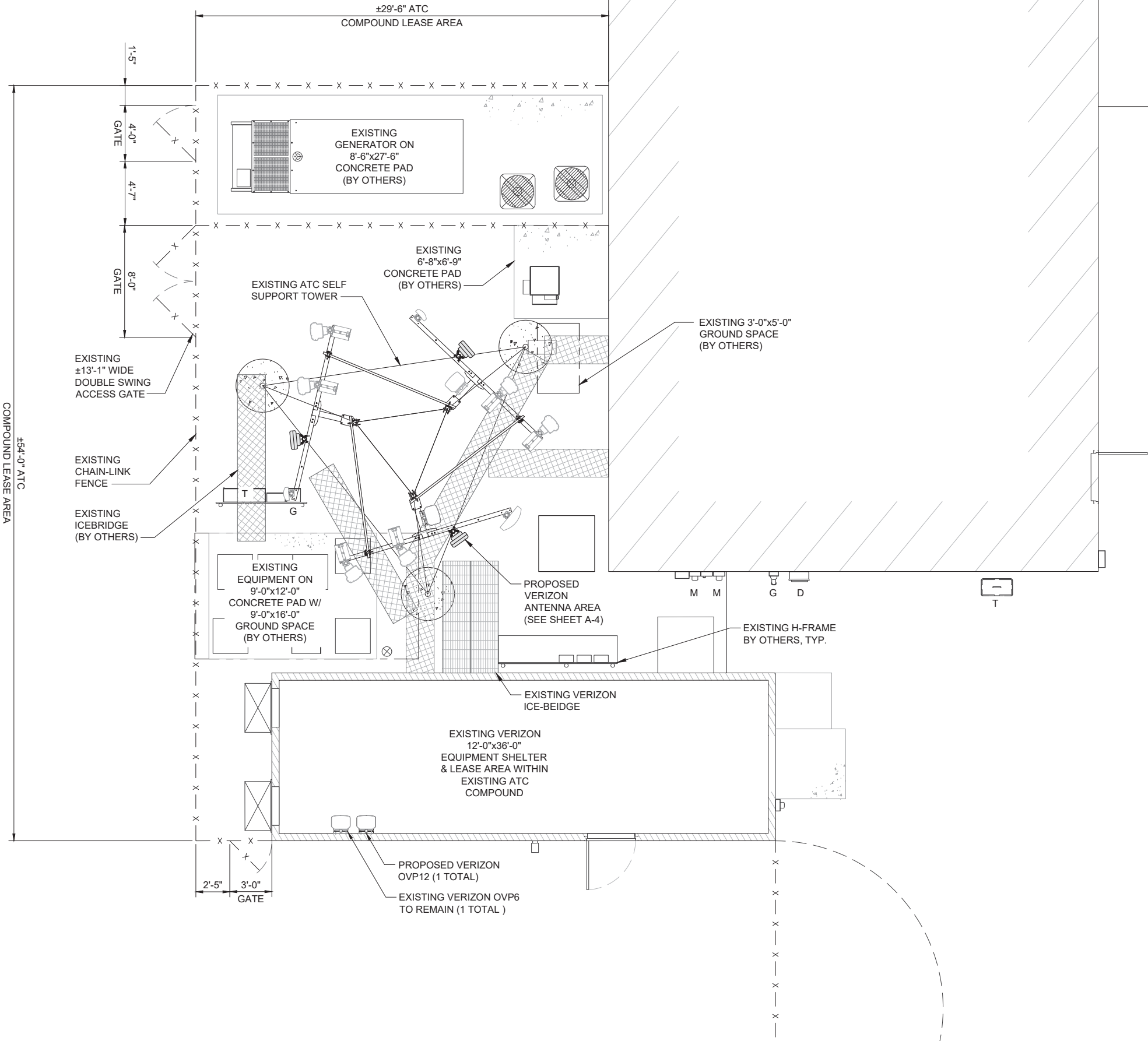
SHEET NUMBER:
A-1

REVISION:
0

Subject to field inspection

Special Inspections Required

INFORMATION CONTAINED WITHIN DRAWINGS IS BASED ON PROVIDED INFORMATION AND IS NOT THE RESULT OF A FIELD SURVEY.



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VERIZON SITE:
APPLE COVE

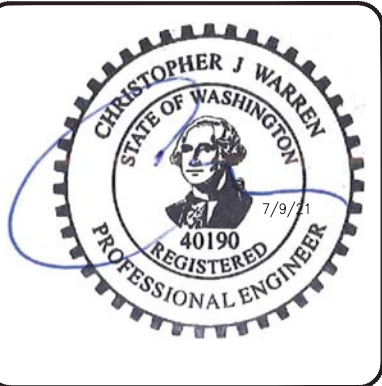
ATC SITE:
82912
APPLE COVE

27055 OHIO AVE N.E.
KINGSTON, WA 98346
KITSAP COUNTY

142'-0" SELF SUPPORT TOWER

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/26/21	RCD	PRELIMINARY REVIEW	TT
0	07/09/21	MH	100% CONSTRUCTION	TT

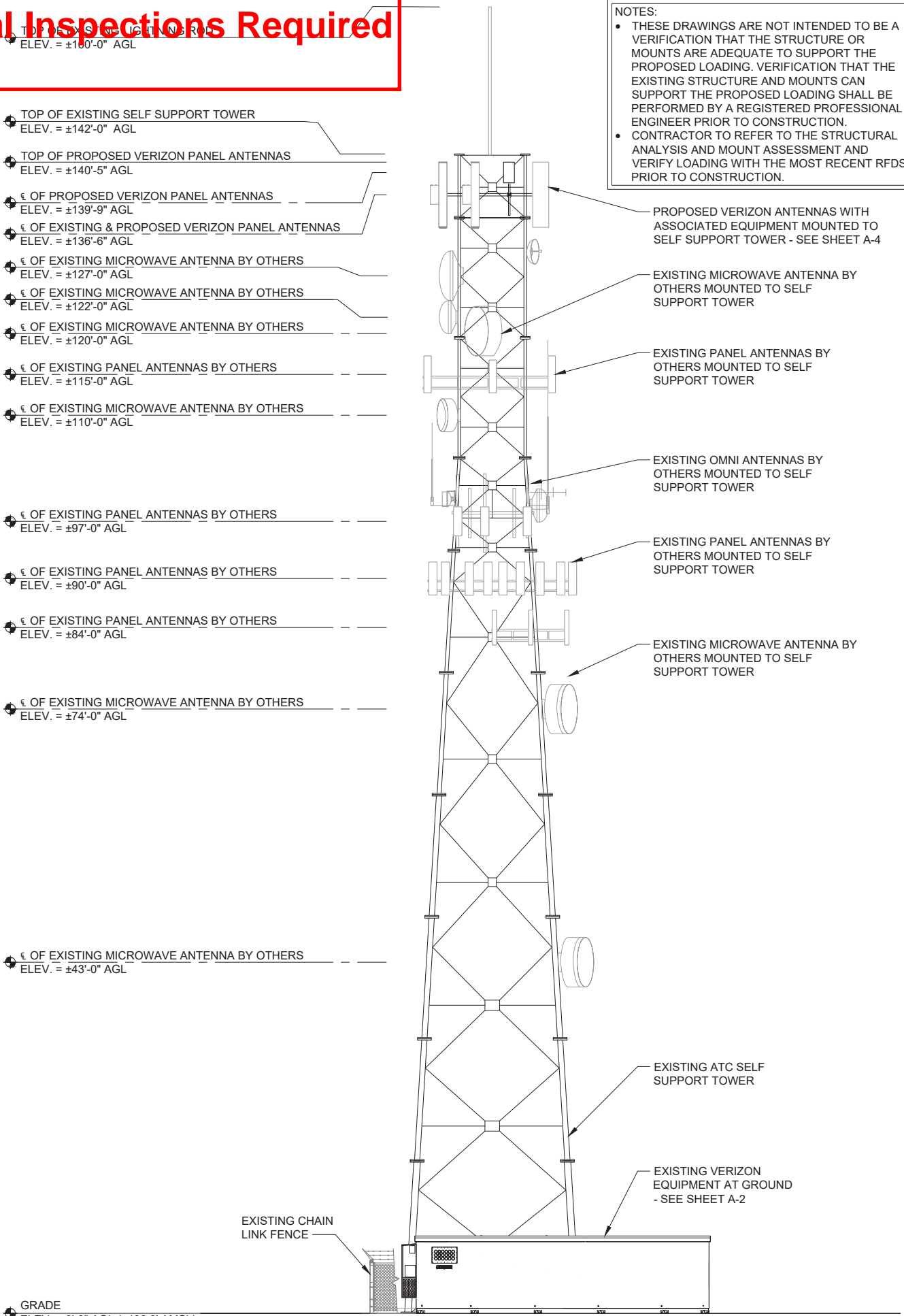
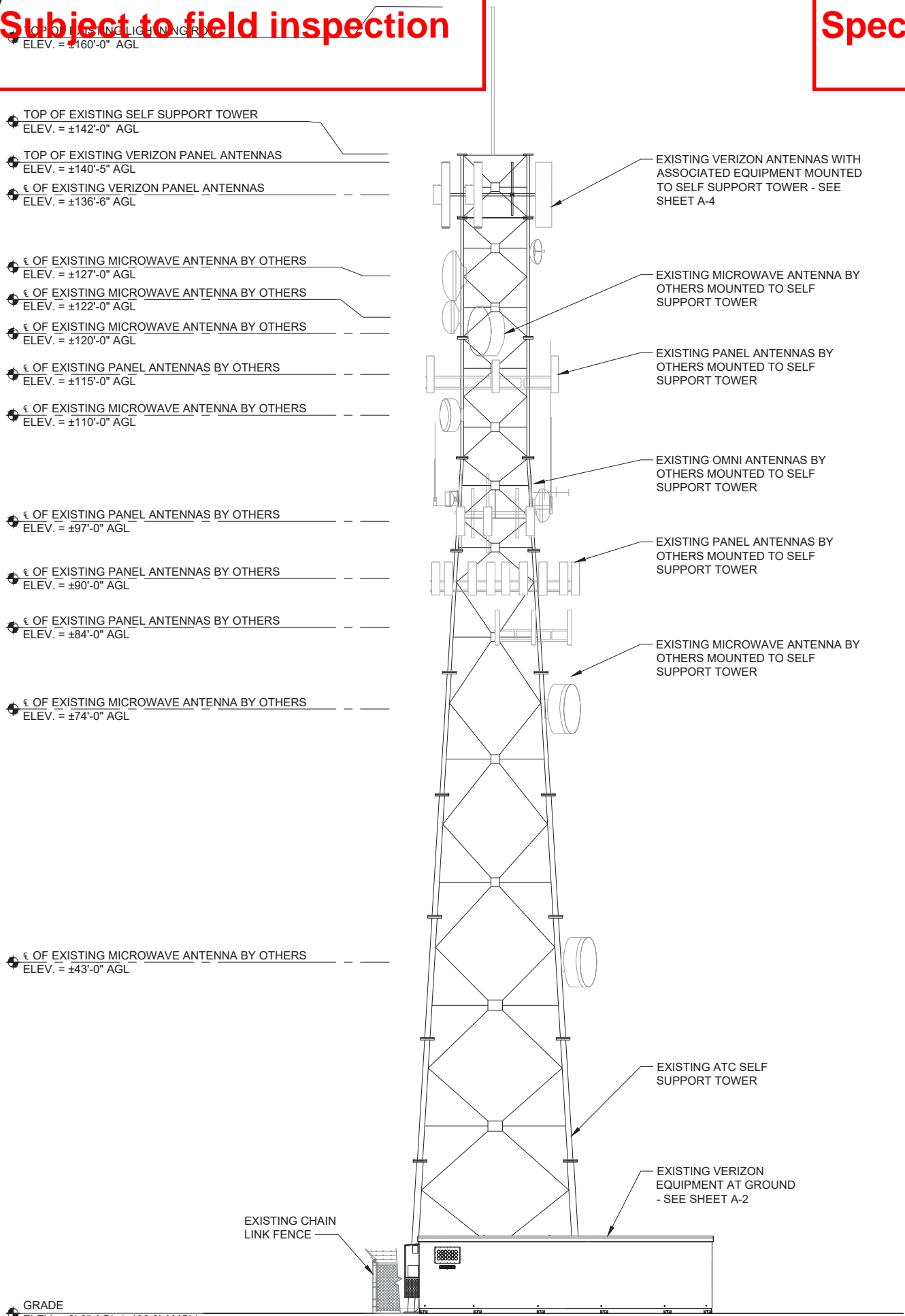


SHEET TITLE:
ENLARGED
SITE PLAN

SHEET NUMBER:
A-2
REVISION:
0

Subject to field inspection

Special Inspections Required



NOTES:
• THESE DRAWINGS ARE NOT INTENDED TO BE A VERIFICATION THAT THE STRUCTURE OR MOUNTS ARE ADEQUATE TO SUPPORT THE PROPOSED LOADING. VERIFICATION THAT THE EXISTING STRUCTURE AND MOUNTS CAN SUPPORT THE PROPOSED LOADING SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.
• CONTRACTOR TO REFER TO THE STRUCTURAL ANALYSIS AND MOUNT ASSESSMENT AND VERIFY LOADING WITH THE MOST RECENT RFDS PRIOR TO CONSTRUCTION.

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VERIZON SITE:
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KITSAP COUNTY

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REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/26/21	RCD	PRELIMINARY REVIEW	TT
0	07/09/21	MH	100% CONSTRUCTION	TT



SHEET TITLE:
SOUTH
ELEVATIONS

SHEET NUMBER:
A-3
REVISION:
0

2 EXISTING SOUTH ELEVATION

22"x34" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"
8' 6' 4' 2' 0' 8'

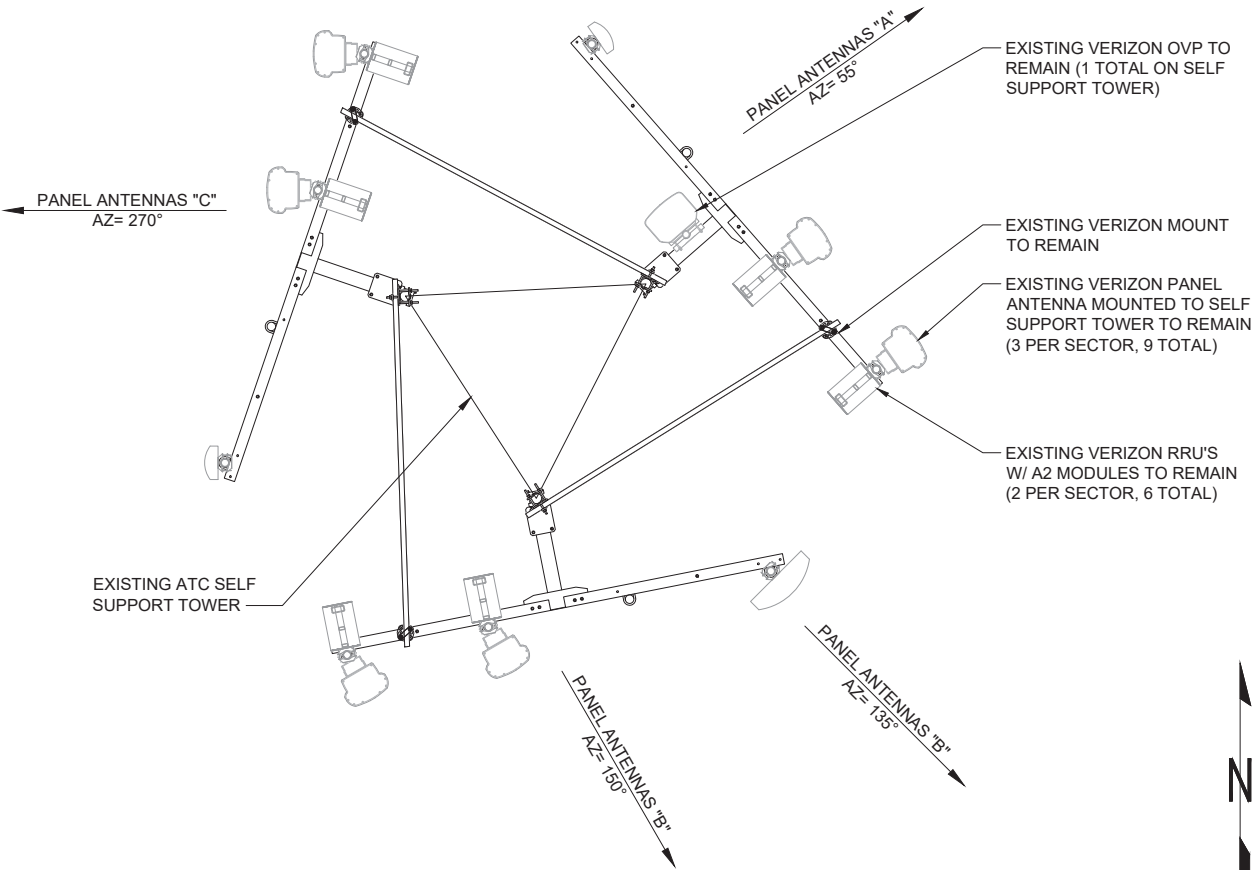
1 PROPOSED SOUTH ELEVATION

22"x34" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"
4' 2' 0' 4'

Subject to field inspection

EXISTING RF CONFIGURATION SCHEDULE															
SECTOR	POSITION	TECH.	QTY.	MANUFACTURER	MODEL	RAD CENTER	TIP HEIGHT	AZIMUTH	RET	MECH. DT	ELEC. DT	COAX CABLES	HYBRID CABLES		
ALPHA	A1	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	55°	FALSE	3°	2°/2°	(2) 1-5/8"	(1) 1 5/8"		
	A2	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	55°	FALSE	3°	2°/2°				
	A3	850 CDMA	1	ANTEL	BXA-80063/8CF 2	136'-6"	140'-5"	55°	FALSE	2°	2°				
BETA	--	--	--	--	--	--	--	--	--	--	--	(2) 1-5/8"		(1) 1 5/8"	
	B1	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	150°	FALSE	3°	2°/2°				
	B2	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	150°	FALSE	3°	2°/2°				
	B3	850 CDMA	1	AMPHENOL	BXA-80040-8CF-EDIN-4	136'-6"	140'-5"	135°	FALSE	2°	4°				
GAMMA	--	--	--	--	--	--	--	--	--	--	--	(2) 1-5/8"			(1) 1 5/8"
	C1	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	270°	FALSE	0°	2°/2°				
	C2	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	270°	FALSE	0°	2°/2°				
	C3	850 CDMA	1	AMPHENOL	BXA-80090-8CF-EDIN-2	136'-6"	140'-5"	270°	FALSE	2°	2°				
	--	--	--	--	--	--	--	--	--	--	--				

LOCATION	SECTOR	TMA'S	COMBINERS	BIAS-TEES	RRU'S	OVP'S	RU'S
ANTENNA LEVEL	ALPHA	--	--	--	(1) 4449, (1) 8843	(1) RCMDC-6627-PF-48	--
	BETA	--	--	--	(1) 4449, (1) 8843		
	GAMMA	--	--	--	(1) 4449, (1) 8843		
GROUND LEVEL	ALPHA	--	--	--	--	(1) RCMDC-6627-PF-48	--
	BETA	--	--	--	--		--
	GAMMA	--	--	--	--		--



2 EXISTING ANTENNA PLAN

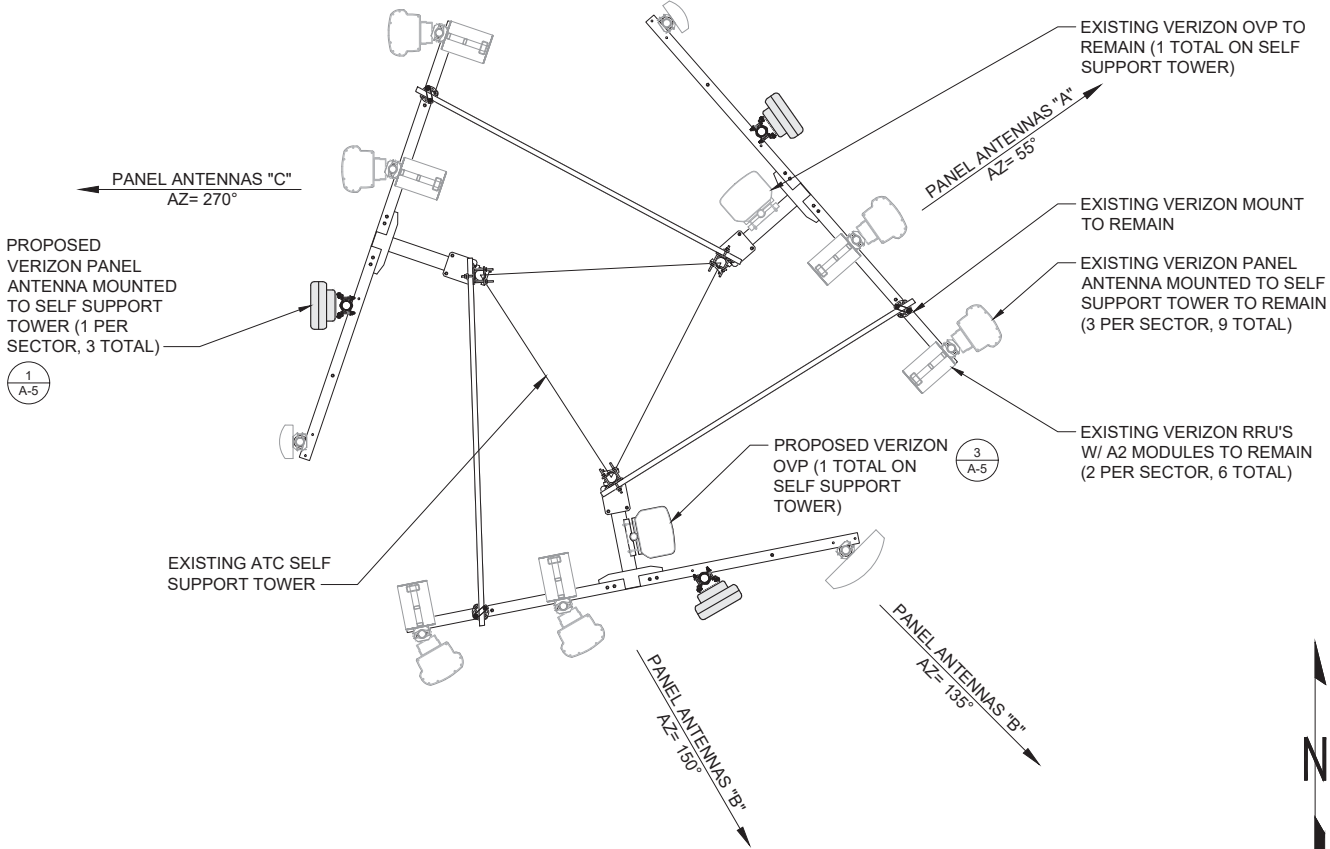
NOT TO SCALE

Special Inspections Required

Inspections Required

PROPOSED RF CONFIGURATION SCHEDULE														
SECTOR	POSITION	TECH.	QTY.	MANUFACTURER	MODEL	RAD CENTER	TIP HEIGHT	AZIMUTH	RET	MECH. DT	ELEC. DT	COAX CABLES	HYBRID CABLES	
	A1	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	55°	FALSE	2°	2°/2°	(2) 1-5/8"	(1) 1 5/8"	
ALPHA	A2	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	55°	FALSE	2°	2°/2°			
	A3	850 CDMA	1	ANTEL	BXA-80063/8CF 2	136'-6"	140'-5"	55°	FALSE	2°	2°			
	A4	5G L-SUB6	1	ERICSSON	AIR6449	137'-4"	140'-5"	55°	FALSE	0°	3°			
BETA	B1	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	150°	FALSE	2°	2°/2°	(2) 1-5/8"		(1) 1 5/8"
	B2	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	150°	FALSE	2°	2°/2°			
	B3	850 CDMA	1	AMPHENOL	BXA-80040-8CF-EDIN-4	136'-6"	140'-5"	135°	FALSE	2°	4°			
	B4	5G L-SUB6	1	ERICSSON	AIR6449	137'-4"	140'-5"	150°	FALSE	0°	3°			
GAMMA	C1	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	270°	FALSE	2°	2°/2°	(2) 1-5/8"		
	C2	700/850 5G LTE	1	JMA WIRELESS	MX06FIT865-02	136'-6"	140'-5"	270°	FALSE	2°	2°/2°			
	C3	850 CDMA	1	AMPHENOL	BXA-80090-8CF-EDIN-2	136'-6"	140'-5"	270°	FALSE	2°	2°			
	C4	5G L-SUB6	1	ERICSSON	AIR6449	137'-4"	140'-5"	270°	FALSE	0°	3°			

LOCATION	SECTOR	TMA'S	COMBINERS	BIAS-TEES	RRU'S	OVP'S	RU'S
ANTENNA LEVEL	ALPHA	--	--	--	(1) 4449, (1) 8843	(1) RCMDC-6627-PF-48 (1) RCMDC-3315-PF-48	--
	BETA	--	--	--	(1) 4449, (1) 8843		
	GAMMA	--	--	--	(1) 4449, (1) 8843		
GROUND LEVEL	ALPHA	--	--	--	--	(1) RCMDC-6627-PF-48 (1) RCMDC-3315-PF-48	--
	BETA	--	--	--	--		--
	GAMMA	--	--	--	--		--



1 PROPOSED ANTENNA PLAN

NOT TO SCALE

Reviewed for Code Compliance
Kitsap County Building Department
Kitsap County Fire Marshal



VERIZON SITE:
APPLE COVE

ATC SITE:
82912
APPLE COVE

27055 OHIO AVE N.E.
KINGSTON, WA 98346
KITSAP COUNTY

142'-0" SELF SUPPORT TOWER

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/26/21	RCD	PRELIMINARY REVIEW	TT
0	07/09/21	MH	100% CONSTRUCTION	TT



SHEET TITLE:
ANTENNA PLANS
& RF SCHEDULES

SHEET NUMBER:
A-4

REVISION:
0

Subject to field inspection

Special Inspections Required

Reviewed for Code Compliance
Kitsap County Building Department
Kitsap County Fire Marshal



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BELLEVUE, WA 98008



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BELLEVUE, WA 98004

VERIZON SITE:
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ATC SITE:
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APPLE COVE

27055 OHIO AVE N.E.
KINGSTON, WA 98346
KITSAP COUNTY

142'-0" SELF SUPPORT TOWER

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/26/21	RCD	PRELIMINARY REVIEW	TT
0	07/09/21	MH	100% CONSTRUCTION	TT

FOR REFERENCE ONLY

SHEET TITLE:

RF PLUMBING
DIAGRAM

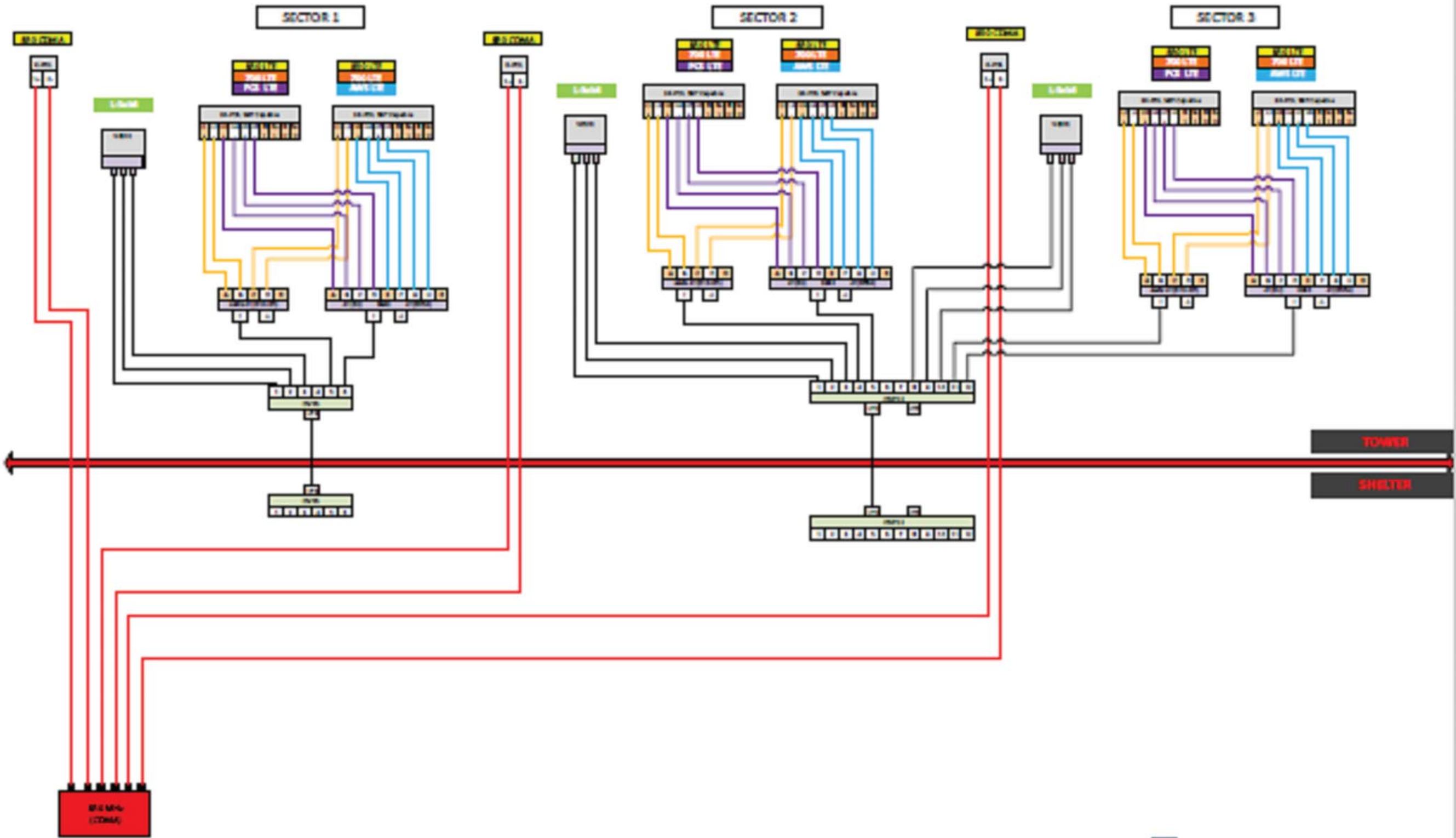
SHEET NUMBER:

A-4.1

REVISION:

0

APPLE_COVE – Project: L-SUB6



Subject to field inspection

Special Inspections Required

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82912
APPLE COVE

27055 OHIO AVE N.E.
KINGSTON, WA 98346
KITSAP COUNTY

142'-0" SELF SUPPORT TOWER

DRAWINGS ISSUED FOR:

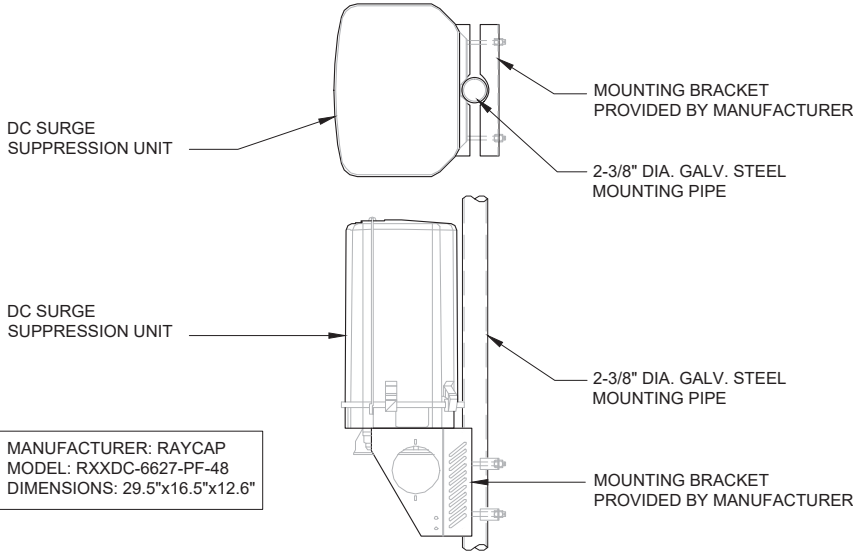
REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/26/21	RCD	PRELIMINARY REVIEW	TT
0	07/09/21	MH	100% CONSTRUCTION	TT



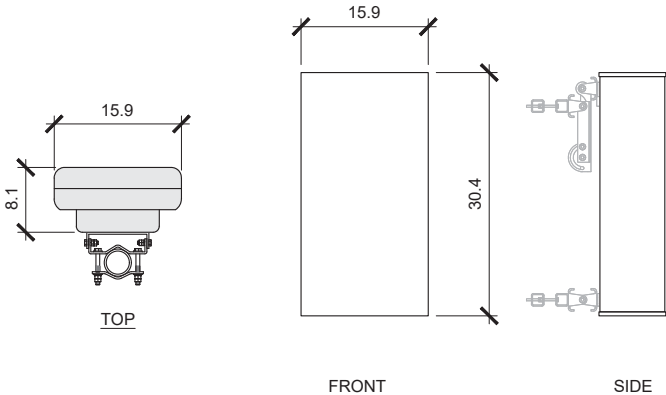
SHEET TITLE: EQUIPMENT DETAILS	
SHEET NUMBER: A-5	REVISION: 0

5 NOT USED

4 NOT USED



MANUFACTURER: ERICSSON
MODEL: AIR6449
WEIGHT: 81.6 LBS
DIMENSIONS: 30.4" X 15.9" X 8.1"
FREQUENCY: REFER TO RF DATA SHEET



3 OVP DETAIL

2 NOT USED

1 ANTENNA DETAIL

Subject to field inspection

- GROUNDING KEYED NOTES:
- 1 SELF SUPPORT TOWER GROUND BUS BAR AT BASE OF SELF SUPPORT TOWER WITH COAX GROUND KIT. SEE DETAIL 9/G-2 FOR GROUND BAR CONSTRUCTION, SEE DETAIL 9/G-2 FOR GROUND WIRE CONNECTIONS, AND SEE DETAIL 1/G-2 FOR COAX GROUNDING.
 - 2 #2 AWG GROUND FROM SELF SUPPORT TOWER GROUND BUS BAR TO SELF SUPPORT TOWER GROUND RING (TYP OF (2) PLACES).
 - 3 ANTENNA GROUND BUS BAR AT ANTENNA LEVEL OF SELF SUPPORT TOWER WITH COAX GROUND KIT. SEE DETAIL 5/G-2 FOR GROUND BAR CONSTRUCTION, SEE DETAIL 9/G-2 FOR GROUND WIRE CONNECTIONS, AND SEE DETAIL 4/G-2 FOR COAX GROUNDING.
 - 4 #6 AWG GROUND FROM ANTENNA / RRU / OVP TO ANTENNA GROUND BUS BAR.

ABBREVIATIONS

AWG	AMERICAN WIRE GAUGE
BCW	BARE COPPER WIRE
DWG	DRAWING
EMT	ELECTRICAL METALLIC TUBING
GEN	GENERATOR
IGR	INTERIOR GROUND RING (HALO)
IMC	INTERMEDIATE METALLIC CONDUIT
MGB	MASTER GROUND BAR
PCS	PERSONAL COMMUNICATION SYSTEM
PTS	POWER TRANSFER SWITCH
PVC	RIGID (SCH. 40) POLYVINYL CHLORIDE CONDUIT
RGS	RIGID GALVANIZED STEEL
RWY	RACEWAY
TYP	TYPICAL

ELECTRICAL SYMBOLS

	GROUND BAR
	GROUND ROD WITH ACCESS
	CHEMICAL GROUND ROD
	GROUND ROD
	DISCONNECT SWITCH
	METER
	CIRCUIT BREAKER
	CADWELD TYPE CONNECTION
	COMPRESSION TYPE CONNECTION
	GROUNDING WIRE
	REPRESENTS DETAIL NUMBER
	REFERENCE SHEET NUMBER

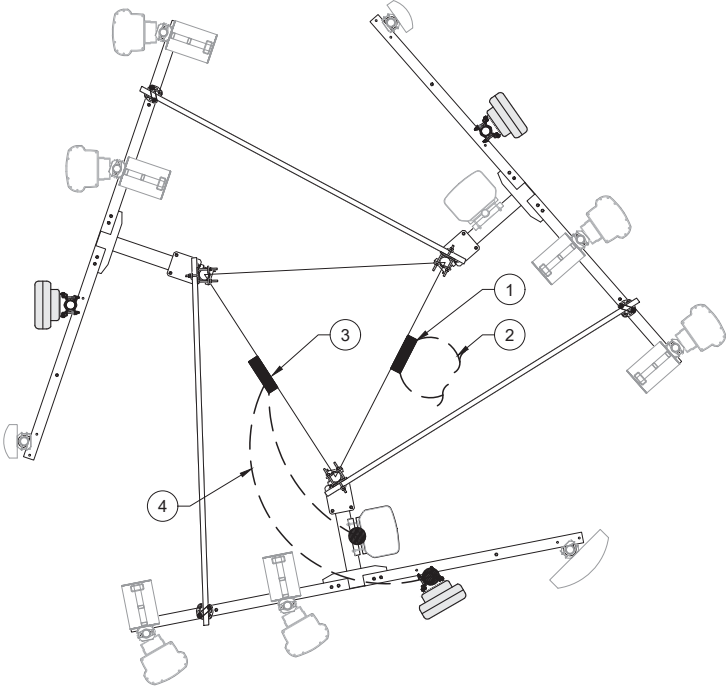
GROUNDING NOTES:

1. 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 DEDICATED VERIZON BUS BARS AND FOR A POLE OR TOWER, SHALL BE LOCATED UP ON A GIVEN POLE OR TOWER NEAR THE BOTTOM OF ANTENNAS, BEING DIRECTLY FASTENED TO THE 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]).
3. ANCHORING OF VERIZON UPPER BUS BAR SHALL NOT EMPLOY THE USE OF DRILLING, WELDING OR CUTTING INTO THE EXISTING STRUCTURE (ALL NEW ATTACHMENT BRACKETS SHALL BE CLAMPED OR MECHANICALLY FASTENED TO STRUCTURE).
4. FOR A METAL POLE OR TOWER, 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).

Special Inspections Required

5. FOR A POLE OR TOWER, A SECOND VERIZON BUS BAR WITH 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 [WITH 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 EXISTING TOWER GROUND RING (FINAL LOCATION OF BOTTOM OF TOWER GROUND BUS BAR SHALL BE APPROVED BY TOWER REPRESENTATIVE PRIOR TO INSTALLATION).
6. VERIZON GROUND LEAD FROM LOWER VERIZON BUS BAR SHALL BE NO. 2 OR 2/0 AWG WIRE AND SHALL BE ATTACHED TO EXISTING POLE / 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.

NOTE:
-FOR CLARITY, NOT ALL ANTENNA SECTORS ARE CALLED OUT.
-ANTENNA/RRU GROUNDING IS TYPICAL FOR ALL SECTORS.



Reviewed for Code Compliance
Kitsap County Building Department
Kitsap County Fire Marshal



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ATC SITE:
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APPLE COVE

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KITSAP COUNTY

142'-0" SELF SUPPORT TOWER

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/26/21	RCD	PRELIMINARY REVIEW	TT
0	07/09/21	MH	100% CONSTRUCTION	TT



SHEET TITLE:
SCHEMATIC GROUNDING
PLAN & NOTES

SHEET NUMBER:
G-1

REVISION:
0

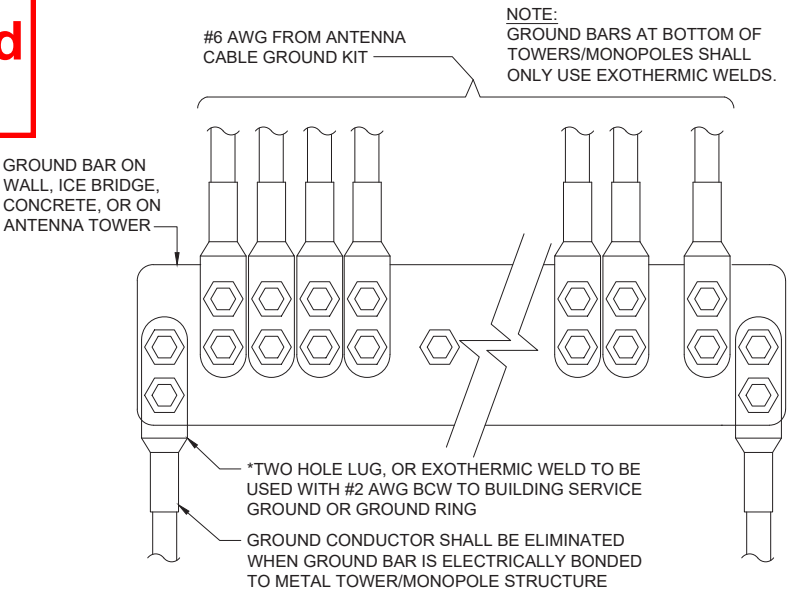
1 SCHEMATIC GROUNDING PLAN

22"x34" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"
2' 1' 0' 2'



Subject to field inspection

Special Inspections Required



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Kitsap County Building Department
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REV.	DATE	DRAWN	DESCRIPTION	QA/QC
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0	07/09/21	MH	100% CONSTRUCTION	TT



SHEET TITLE:
**GROUNDING
DETAILS**

SHEET NUMBER:
G-2

REVISION:
0

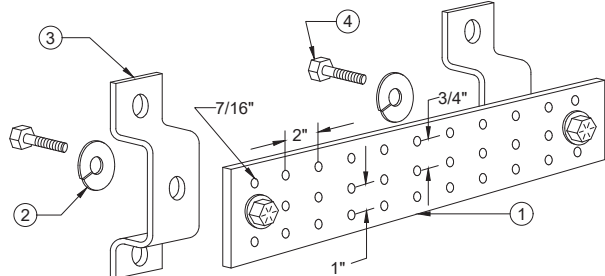
12 NOT USED

11 NOT USED

10 NOT USED

9 GROUND WIRE INSTALLATION

- 1.) COPPER GROUND BAR, 1/4"x 4"x 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR APPROVED EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
- 2.) 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR APPROVED EQUAL
- 3.) WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR APPROVED EQUAL
- 4.) 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR APPROVED EQUAL



NOTES:
GROUND BARS AT ANTENNA LEVEL AND AT BASE OF TOWER STRUCTURE TO BE ATTACHED WITH INSULATORS. CONNECTION TO TOWER STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

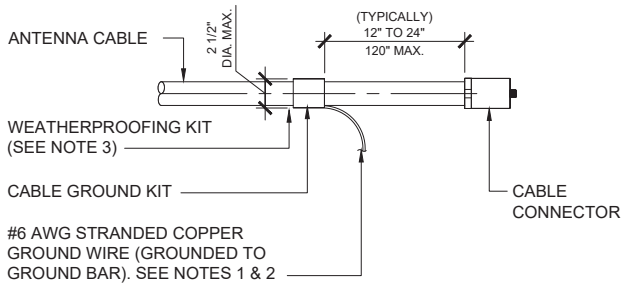
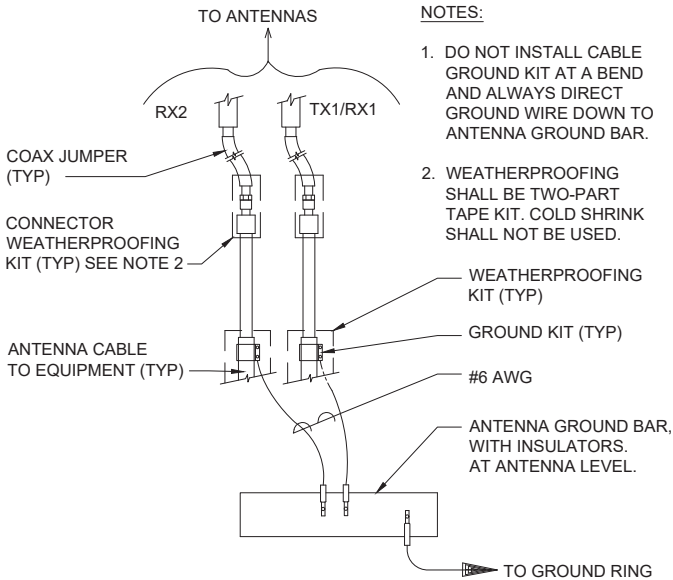
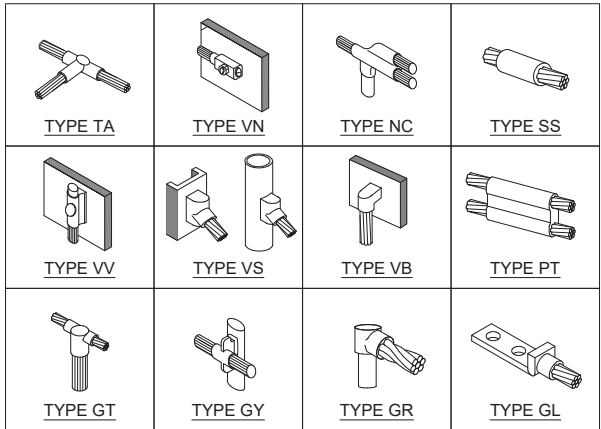
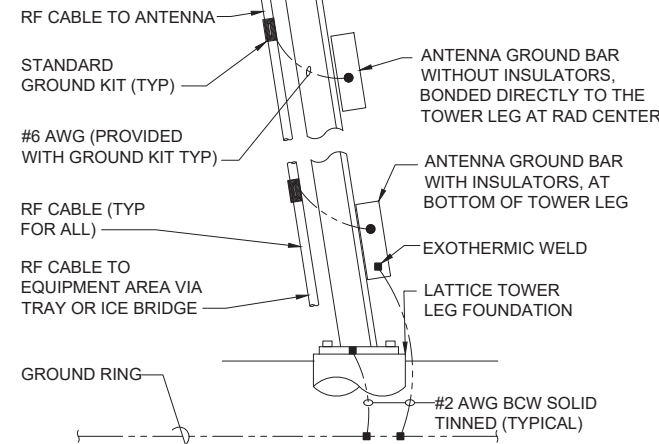
8 NOT USED

7 NOT USED

6 NOT USED

5 TYPICAL GROUND BAR

NOTE:
NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.



- NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 3. WEATHERPROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

4 EXOTHERMIC CONNECTIONS

3 CABLE GROUND CONNECTIONS

2 CABLE GROUND KIT

1 RF CABLE GROUND