

# T-Mobile

## SO. ISLAND CREST/PSE/ROW



4646 ISLAND CREST WAY  
MERCER ISLAND, WA 98040

### SITE NUMBER: SE03440A

LATITUDE 47° 33' 44.5" N (47.5623)      LONGITUDE 122° 13' 20.4" W (-122.2223)  
PROJECT: ANCHOR/L600

RFDS: VER: 5  
PROJECT: ANCHOR

**PROJECT INFORMATION:**

**SO. ISLAND  
CREST/PSE/ROW  
SE03440A**

4646 ISLAND CREST WAY  
MERCER ISLAND, WA 98040

**ISSUED FOR:**

**BUILDING PERMIT**

**REVISION HISTORY:**

NO.	DATE:	DESCRIPTION:	CHK. BY:
6	7/25/2022	MINOR REV	BJT
5	6/23/2022	REVISED PER REDLINES	BJT
4	6/22/2022	ISSUED REDESIGN REVIEW	BJT
3	10/26/2021	MINOR REV	BJT
2	10/26/2021	REVISED PER REDLINES	BJT
1	9/27/2021	ISSUED DESIGN REVIEW	BJT

**PLANS PREPARED BY:**

**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

**DRAWN BY:**      **CHK. BY:**

JL

BJ

**LICENSURE:**



**DRAWING INFORMATION:**

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY PROHIBITED.

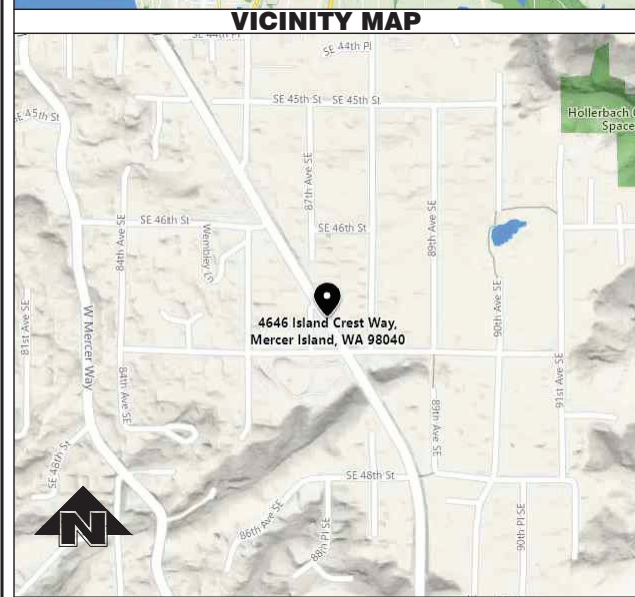
**DRAWING TITLE:**

**TITLE SHEET**

**DRAWING NUMBER:**

**T-1**

GENERAL LOCATION MAP	DRIVING DIRECTIONS	PROJECT TEAM	PROJECT DESCRIPTION	DRAWING INDEX
	<p>FROM T-MOBILE BOTHELL 4 OFFICE:</p> <ol style="list-style-type: none"> <li>DEPART AND HEAD (NORTHEAST) 423 FT</li> <li>TURN RIGHT, THEN IMMEDIATELY TURN RIGHT ONTO N CREEK PKWY 0.3 MI</li> <li>TURN RIGHT ONTO NE 195TH ST 0.3 MI</li> <li>TAKE THE RAMP ON THE LEFT FOR I-405 SOUTH AND HEAD TOWARD RENTON 12.6 MI</li> <li>AT EXIT 11, HEAD RIGHT ON THE RAMP FOR I-90 WEST TOWARD SEATTLE 2.9 MI</li> <li>AT EXIT 7, HEAD ON THE RAMP RIGHT AND FOLLOW SIGNS FOR ISLAND CREST WAY 0.2 MI</li> <li>KEEP LEFT TO GET ONTO ISLAND CREST WAY 1.8 MI</li> </ol> <p>ARRIVE AT 4646 ISLAND CREST WAY, MERCER ISLAND, WA 98040</p>	<p>PROPERTY OWNER: CITY OF MERCER ISLAND</p> <p>TOWER OWNER: PUGET SOUND ENERGY 10885 NE 4TH STREET BELLEVUE, WA 98004</p> <p>PROJECT MANAGER: LYNX CONSULTING, INC. OLIVIA WRIGHT 17311 135TH AVE NE, STE A-100 WOODINVILLE, WA 98072 PHONE: (253) 653-9787 EMAIL: owright@lynxconsulting.org</p>	<p>T-MOBILE PROPOSES TO MODIFY AN EXISTING WIRELESS FACILITY WITH THE FOLLOWING SCOPE OF WORK:</p> <p>SOW @ ANTENNAS: REMOVE (3) SBNHH ANTENNAS. ADD (3) FFVV ANTENNAS &amp; (3) AEHC ANTENNAS. REMOVE EXISTING ANTENNA MOUNTS. ADD (3) NEW 12" WOOD GLUELAM ANTENNA MOUNTS W/ (6) 3" x 4' CROSS PIPES, (18) CROSS OVER PLATES &amp; (6) 3" x 8' ANTENNA PIPE MASTS. REMOVE (3) FRIJ, (3) FRBG, (1) FXXB &amp; (12) DIPLEXERS. ADD (3) AHLOA &amp; (3) AHFIG. REMOVE (1) COVP &amp; (1) 150' HIGH CAP HYBRID CABLE. ADD (2) HCS 2.0 PENDANTS. ADD (2) 150' HYBRID TRUNK CABLES.</p> <p>SOW @ BTS CABINETS: REMOVE BATTERY RACK &amp; (1) 19" RADIO RACK. ADD NEW DELTA 700A POWER RACK. KEEP 19" RADIO RACK. REMOVE (1) COVP. ADD (2) HCS 2.0 TOWER JUNCTION BOXES. INSTALL VOLTAGE BOOSTER AND (3) AMPLIFIERS IN 19" RACK PER RFDS.</p>	<p>T-1 TITLE SHEET &amp; PROJECT DATA</p> <p>G-1 GENERAL NOTES</p> <p>A-1 OVERALL SITE PLAN</p> <p>A-1.1 EXISTING/PROPOSED ENLARGED ANTENNA PLAN</p> <p>A-1.2 EXISTING/PROPOSED ENLARGED EQUIPMENT PLAN</p> <p>A-2 EXISTING/PROPOSED SOUTHWEST SITE ELEVATION</p> <p>RF-1 RF DETAILS</p> <p>RF-1.1 SFP DETAILS</p> <p>RF-2 RF DETAILS</p> <p>A-3 BTS EQUIPMENT DETAILS</p> <p>A-4 &amp; A-5 GENERAL DETAILS</p> <p>A-6 ANTENNA MOUNT DETAILS</p> <p>E-1 ELECTRICAL GROUNDING PLAN</p> <p>E-2 ELECTRICAL GROUNDING DETAILS</p>
<b>ZONING INFORMATION</b>		<p>CONSTRUCTION MANAGER: LYNX CONSULTING, INC. TRAVIS AENSON 17311 135TH AVE NE, STE A-100 WOODINVILLE, WA 98072 PHONE: (206) 920-3548 EMAIL: taaenson@lynxconsulting.org</p>		
		<p>SITE ACQUISITION: LYNX CONSULTING, INC. JOHN EDER 10427 205TH DR SE SNOHOMISH, WA 98290 PHONE: (253) 278-2902 EMAIL: john@4sitesolutions.com</p>		
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		<p>CONSULTING ENGINEER: B.J. THOMAS, P.E. 7607 80TH AVE NE MARYSVILLE, WA 98270 PHONE: 206-851-1106 bjthomas@bjthomaspe.comcastbiz.net</p>		
<b>UTILITY PURVEYOR</b>			<b>CODE COMPLIANCE</b>	
<p>POWER COMPANY: N/A</p> <p>TELCO COMPANY: N/A</p>			<p>ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING ON THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES: 2018 IBC, STANDARDS &amp; AMENDMENTS, WAC 51-50 2018 IMC, STANDARDS &amp; AMENDMENTS, WAC 51-52 2018 IFC, STANDARDS &amp; AMENDMENTS, WAC 51-54 2020 NFPA 54 - NATIONAL FUEL GAS CODE (PROPANE INSTALLATIONS ONLY) 2020 NFPA 58 - LIQUEFIED PETROLEUM GAS CODE (PROPANE INSTALLATIONS ONLY) 2018 INTERNATIONAL FIRE CODE 2018 UPC, STANDARDS &amp; AMENDMENTS, WAC 51-56, 51-57 2020 NATIONAL ELECTRICAL CODE 2017 NATIONAL ELECTRIC SAFETY CODE LOCAL BUILDING CODE ORDINANCES ANSI / TIA / EIA - 222 - H - 2017 NFPA-101 - LIFE SAFETY CODE</p>	
<b>LEGAL DESCRIPTION</b>				<b>PROJECT INFORMATION</b>
<p>ABBREVIATED PER ACCESSOR RECORDS:</p> <p>LOTS 11 AND 12 IN BLOCK 8 OF ALLVIEW HEIGHTS ADDITION TO SEATTLE, AS PER PLAT RECORDED IN VOLUME 16 OF PLATS, PAGE 20, IN KING COUNTY, WASHINGTON.</p> <p>EXCEPT THAT PORTION THEREOF CONVEYED TO KING COUNTY FOR MERCER ISLAND TRUNK LINE BY DEEDS RECORDED UNDER RECORDING NOS. 4781263 AND 4871340;</p> <p>TOGETHER WITH THAT PORTION OF VACTED ALLEY ADJOINING OR ABUTTING THERON, WHICH UPON VACATION, ATTACHED TO SAID PREMISES BY OPERATION OF LAW.</p>				<p>THIS IS UNSTAFFED AND RESTRICTED EQUIPMENT AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.</p> <p>T-MOBILE CERTIFIES THAT THIS TELEPHONE EQUIPMENT FACILITY WILL BE SERVICED ONLY BY T-MOBILE EMPLOYEES AND THE WORK ASSOCIATED WITH ANY EQUIPMENT CANNOT BE PERFORMED BY HANDICAPPED PERSONS. THIS FACILITY WILL BE FREQUENTED ONLY BY SERVICE PERSONNEL FOR REPAIR PURPOSES. PURSUANT TO THE AMERICANS WITH DISABILITIES ACT (ADA), APPENDIX B SECTION 4.11. (5)(b), THIS FACILITY IS EXEMPT FROM THAT ACT.</p> <p>NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION. NO WASTE WATER OR SOLID WASTE WILL BE GENERATED AT THIS LOCATION.</p> <p>T-MOBILE MAINTENANCE CREW (ONE PERSON) WILL MAKE AN AVERAGE OF ONE TRIP PER MONTH AT ONE HOUR PER TRIP.</p>
				<b>APPROVAL/SIGN OFF OF CONST DRAWINGS</b>
				<p>REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED.</p> <p>CONSULTANT GROUP SIGN OFF</p>
				<p>LANDLORD'S REPRESENTATIVE:      DATE:</p> <p>CONSTRUCTION MANAGER:      DATE:</p> <p>CONSTRUCTION PROJECT MANAGER:      DATE:</p> <p>PROJECT MANAGER:      DATE:</p> <p>SITE ACQUISITION:      DATE:</p> <p>ZONING:      DATE:</p> <p>RF ENGINEER:      DATE:</p>



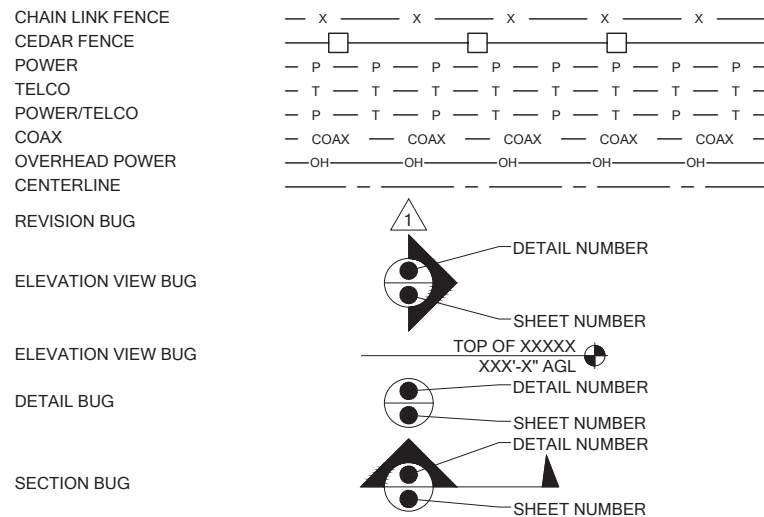
**GENERAL NOTES:**

1. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE INSTALLATION AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND STANDARDIZED DETAILS THAT REQUIRE MODIFICATIONS DUE TO ACTUAL FIELD CONDITIONS AND REQUIREMENTS MUST BE SUBMITTED TO AND APPROVED BY, T-MOBILE WIRELESS REPRESENTATIVE PRIOR TO START OF WORK.
3. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITING.
4. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, SAFETY, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
7. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
8. GENERAL CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT ONLY IF THE TITLE SHEET IS STAMPED IN RED INK "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S/ENGINEER'S SIGNED WET STAMP.
9. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES.
10. THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING CONSTRUCTION AND REPAIR ALL DAMAGES TO BETTER THAN NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY DAMAGE TO THE BUILDING SITE OR ANY ADJACENT STRUCTURES AROUND THE PROJECT. THE T-MOBILE REPRESENTATIVE SHALL BE SOLE AND FINAL JUDGE AS TO THE QUALITY OF THE REPAIRED CONSTRUCTION. ANY ADDITIONAL MODIFICATIONS WHICH MUST BE MADE SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
12. WHERE NEW PAVING, CONCRETE SIDEWALKS OR PATHS MEET EXISTING CONSTRUCTION, THE CONTRACTOR SHALL MATCH THE EXISTING PITCH, GRADE, AND ELEVATION SO THE ENTIRE STRUCTURE SHALL HAVE A SMOOTH TRANSITION.
13. THE CONTRACTOR SHALL MODIFY THE EXISTING FLOORS, WALL, CEILING, OR OTHER CONSTRUCTION AS REQUIRED TO GAIN ACCESS TO AREAS FOR ALL MECHANICAL, PLUMBING, ELECTRICAL, OR STRUCTURAL MODIFICATIONS. WHERE THE EXISTING CONSTRUCTION DOORS, PARTITIONS, CEILING, ETC., ARE TO BE REMOVED, MODIFIED, OR REARRANGED OR WHERE THE EXPOSED OR HIDDEN MECHANICAL, ELECTRICAL, SYSTEMS ARE ADDED OR MODIFIED, THE GENERAL CONTRACTOR SHALL REPAIR, PATCH AND MATCH ALL EXISTING CONSTRUCTION AND FINISHES OF ALL FLOORS WALLS AND CEILINGS. WHERE CONCRETE MASONRY CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL TOOTH IN ALL NEW CONSTRUCTION TO MATCH THE EXISTING BOND. WHERE CONCRETE CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL VERIFY THE EXACT DETAILS TO BE USED FOR CONSTRUCTION. ALL WORK SHALL BE COVERED UNDER THE GENERAL CONTRACT.
14. IF CONTRACTOR OR SUBCONTRACTOR FIND IT NECESSARY TO DEVIATE FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUBCONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CONSULTANT WITH 4 COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.
15. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
16. THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
17. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHAL APPROVED MATERIALS AS APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY LOCATES, SCHEDULING, COORDINATING SPECIAL AND BUILDING DEPARTMENT INSPECTIONS.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND UTILIZING ORIGINAL ROOFING CONTRACTOR AS REQUIRED TO MAINTAIN ANY EXISTING ROOFING WARRANTY.
20. ROUTING OF ALL CONDUITS, CABLES, CABLE TRAYS ETC ARE INDICATED AS PROPOSED LOCATION ONLY. CONFIRM THE EXACT LOCATION AND ROUTING WITH THE ON SITE T-MOBILE CONSTRUCTION MANAGER PRIOR TO STARTING WORK.

**ABBREVIATIONS**

AC	AIR CONDITIONER	JT	JOINT
AFF	ABOVE FINISHED FLOOR	LAM	LAMINATED
AFG	ABOVE FINISHED GRADE	LF	LINEAL FOOT
AFS	ABOVE FINISHED SLAB	MANUF	MANUFACTURER
ALUM	ALUMINUM	MAX	MAXIMUM
	ANCHOR BOLT	MECH	MECHANICAL
	ANGLE	MH	MANHOLE
ARCH	ARCHITECTURAL	MM	MILLIMETER
BTS	BASE TRANSMISSION SYSTEM	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BM	BEAM	MPH	MILES PER HOUR
BOT	BOTTOM	MTL	METAL
B.O.	BOTTOM OF	NIC	NOT IN CONTRACT
BOC	BOTTOM OF CONCRETE	NOM	NOMINAL
BOS	BOTTOM OF STEEL	N/S	NOT TO SCALE
	CONTROL JOINT	OC	ON CENTER
	CENTER LINE	OD	OUTSIDE DIAMETER
CLG	CEILING	OH	OVERHEAD
CLR	CLEAR	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
COL	COLUMN	(P)	PROPOSED
CONC	CONCRETE	PCS	PERSONAL COMMUNICATION SYSTEM
CONST	CONSTRUCTION	P	PLATE
CONT	CONTINUOUS	PR	PAIR
CTR	CENTER	PSI	POUNDS PER SQUARE INCH
DIA / Ø	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DTL	DETAIL	PT	PRESSURE TREATED
	EXISTING	RAD	RADIUS
EA	EACH	RD	ROOF DRAIN
	EXPANSION JOINT	REINF	REINFORCED/REINFORCING
ELEC	ELECTRIC/ELECTRICAL	REQ'D	REQUIRED
	ELEVATION	RM	ROOM
EQ	EQUAL	R/W	RIGHT OF WAY
EW	EACH WAY	SCHED	SCHEDULE
EXP	EXPANSION	SECT	SECTION
EXT	EXTERIOR	SF	SQUARE FOOT
	FLOOR DRAIN	SIM	SIMILAR
FIN	FINISH	SQ FT	SQUARE FOOT
FIN FLR	FINISH FLOOR	SS	STAINLESS STEEL
FLR	FLOOR	STD	STANDARD
FTG	FOOTING	STL	STEEL
GA	GAUGE	STRUC	STRUCTURAL
GALV	GALVANIZED	TEMP	TEMPORARY
GYP	GYPSUM	THK	THICK
GB	GYPSUM BOARD	TO	TOP OF
HM	HOLLOW METAL	TOS	TOP OF STEEL
HOR	HORIZONTAL	TOC	TOP OF CONCRETE
HR	HOUR	TYP	TYPICAL
	HEIGHT	UNO	UNLESS NOTED OTHERWISE
HVAC	HEATING VENTILATION AIR CONDITIONING	VCT	VINYL COMPOSITION TILE
INSUL	INSULATION	VERT	VERTICAL
INT	INTERIOR	W/	WITH
		WWW	WELDED WIRE MESH

**LEGENDS & SYMBOLS**



**SPECIAL INSPECTIONS:**

SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC 2018 SECTION 1704.

**SOILS/GEOTECHNICAL:**

- SHORING INSTALLATION AND MONITORING
- OBSERVE AND MONITOR EXCAVATION
- VERIFY SOIL BEARING \_\_\_\_\_ psf BEARING
- SUBSURFACE DRAINAGE PLACEMENT
- VERIFY FILL MATERIAL AND COMPACTION
- VERIFY CONDITIONS AS ANTICIPATED
- PILE PLACEMENT (AUGER CAST/DRIVEN PILE)
- OTHER \_\_\_\_\_

**REINFORCED CONCRETE:**

- REINFORCING STEEL AND CONCRETE PLACEMENT
- PRESTRESSED/PRECAST CONCRETE FABRICATION AND ERECTION
- BATCH PLANT INSPECTION
- SHOTCRETE
- GROUTING
- OTHER \_\_\_\_\_

**STRUCTURAL STEEL:**

- FABRICATION AND SHOP WELDS
- ERECTION AND FIELD WELDS AND BOLTING
- OTHER: \_\_\_\_\_

**STRUCTURAL ALUMINUM:**

- FABRICATION AND SHOP WELDS
- ERECTION AND FIELD WELDS AND BOLTING
- OTHER: \_\_\_\_\_

**STRUCTURAL MASONRY:**

- CONTINUOUS
- PERIODIC
- OTHER: \_\_\_\_\_

**MISCELLANEOUS:**

- OTHER: \_\_\_\_\_

**ANCHORING TO CONCRETE:**

- BOLTS INSTALLED IN CONCRETE
- POST-INSTALLATION ADHESIVE ANCHORS
- POST-INSTALLATION MECHANICAL ANCHORS



**PROJECT INFORMATION:**

**SO. ISLAND  
CREST/PSE/ROW  
SE03440A**

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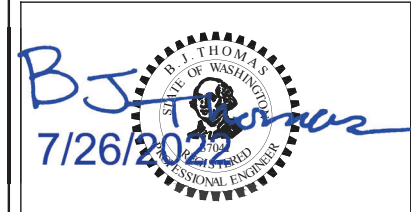
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**DRAWING TITLE:**

**GENERAL NOTES**

**DRAWING NUMBER:**

**G-1**

CALL TWO WORKING DAYS BEFORE YOU DIG

811

NATIONAL UTILITIES UNDERGROUND LOCATE

ELECTRIC - RED  
SEWER - GREEN  
GAS/OIL - YELLOW  
SURVEY - PINK

TEL/CATV - ORANGE  
PROPOSED - WHITE  
WATER - BLUE

SAFETY PRECAUTION SHALL BE IMPLEMENTED BY CONTRACTOR(S) AT ALL TRENCHING IN ACCORDANCE WITH CURRENT OSHA STANDARDS



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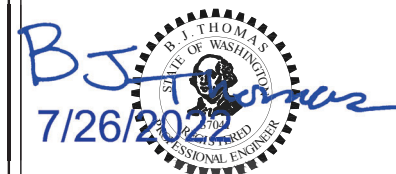
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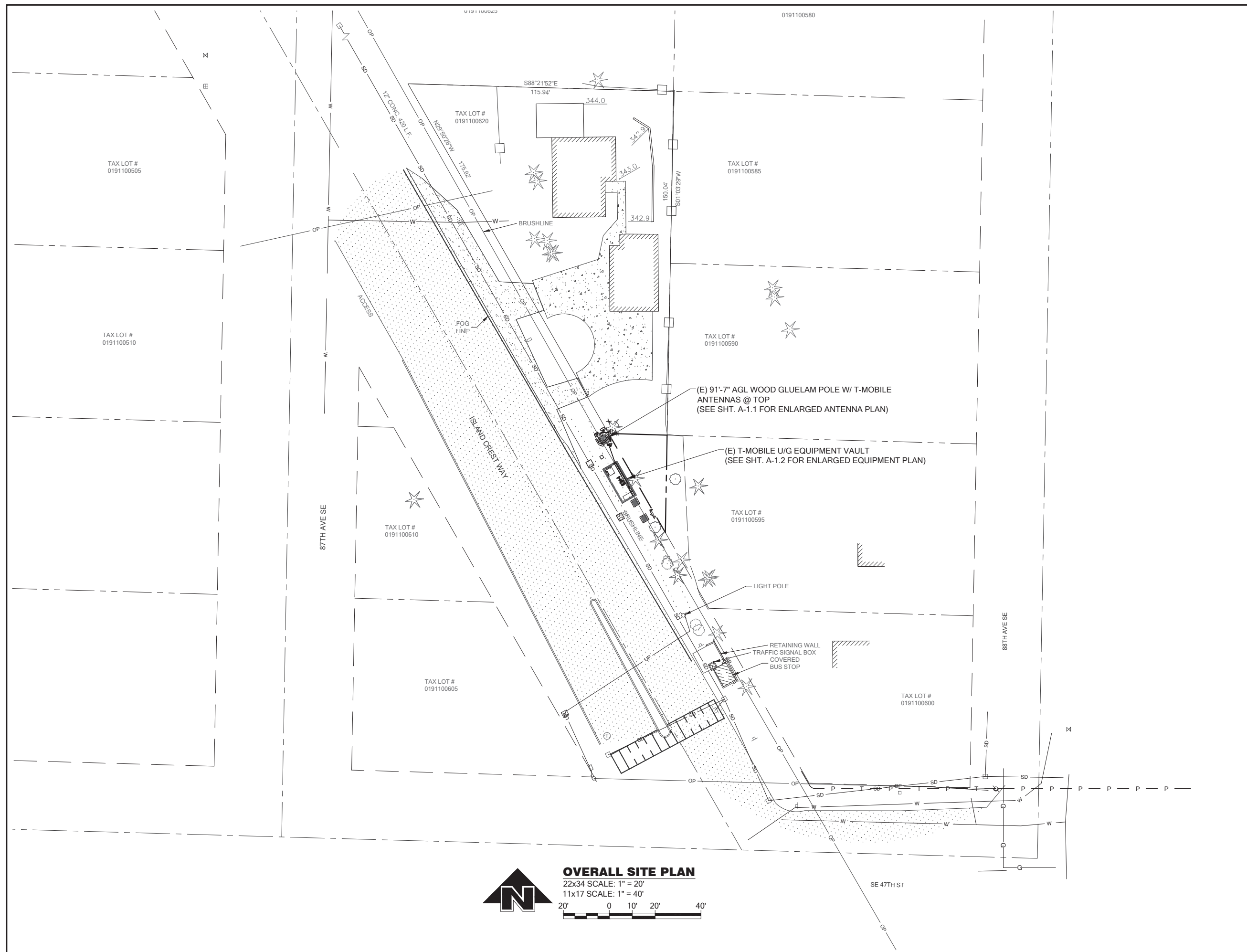
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DRAWING TITLE:

**OVERALL  
SITE PLAN**

DRAWING NUMBER:

**A-1**



**OVERALL SITE PLAN**  
 22x34 SCALE: 1" = 20'  
 11x17 SCALE: 1" = 40'

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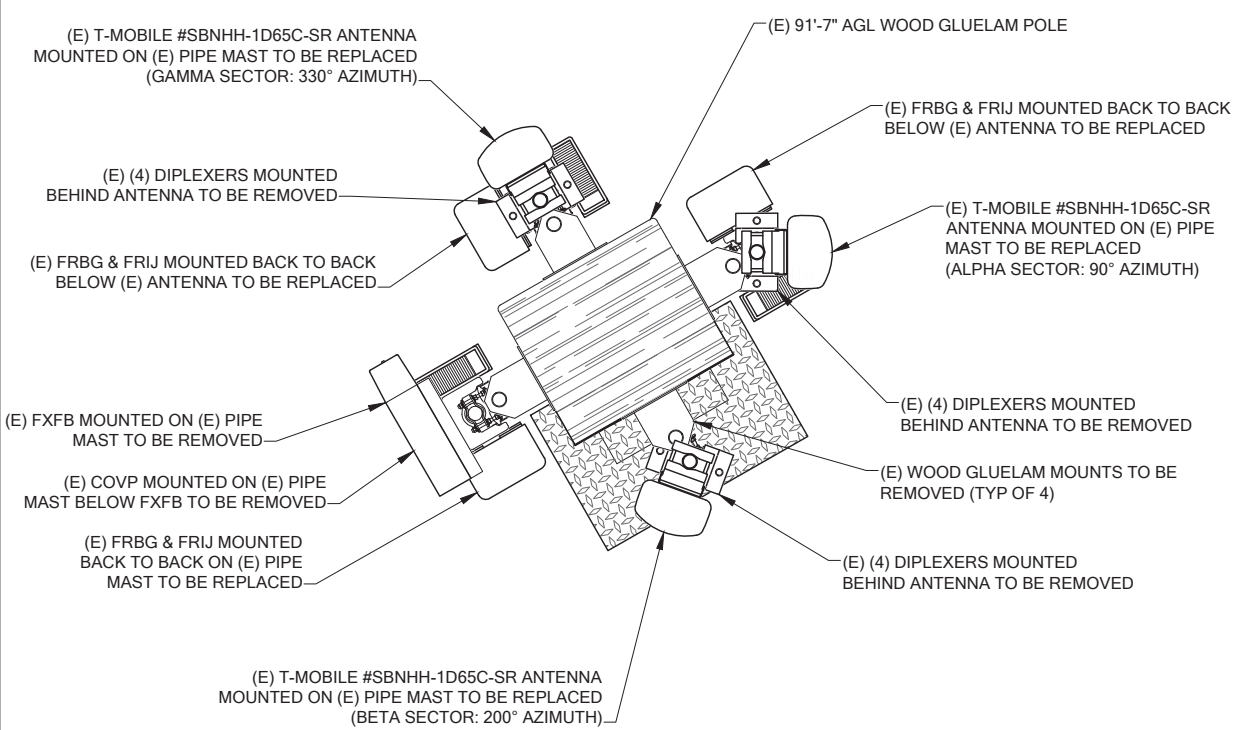
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**ENLARGED  
ANTENNA PLAN**

**DRAWING NUMBER:**

**A-1.1**

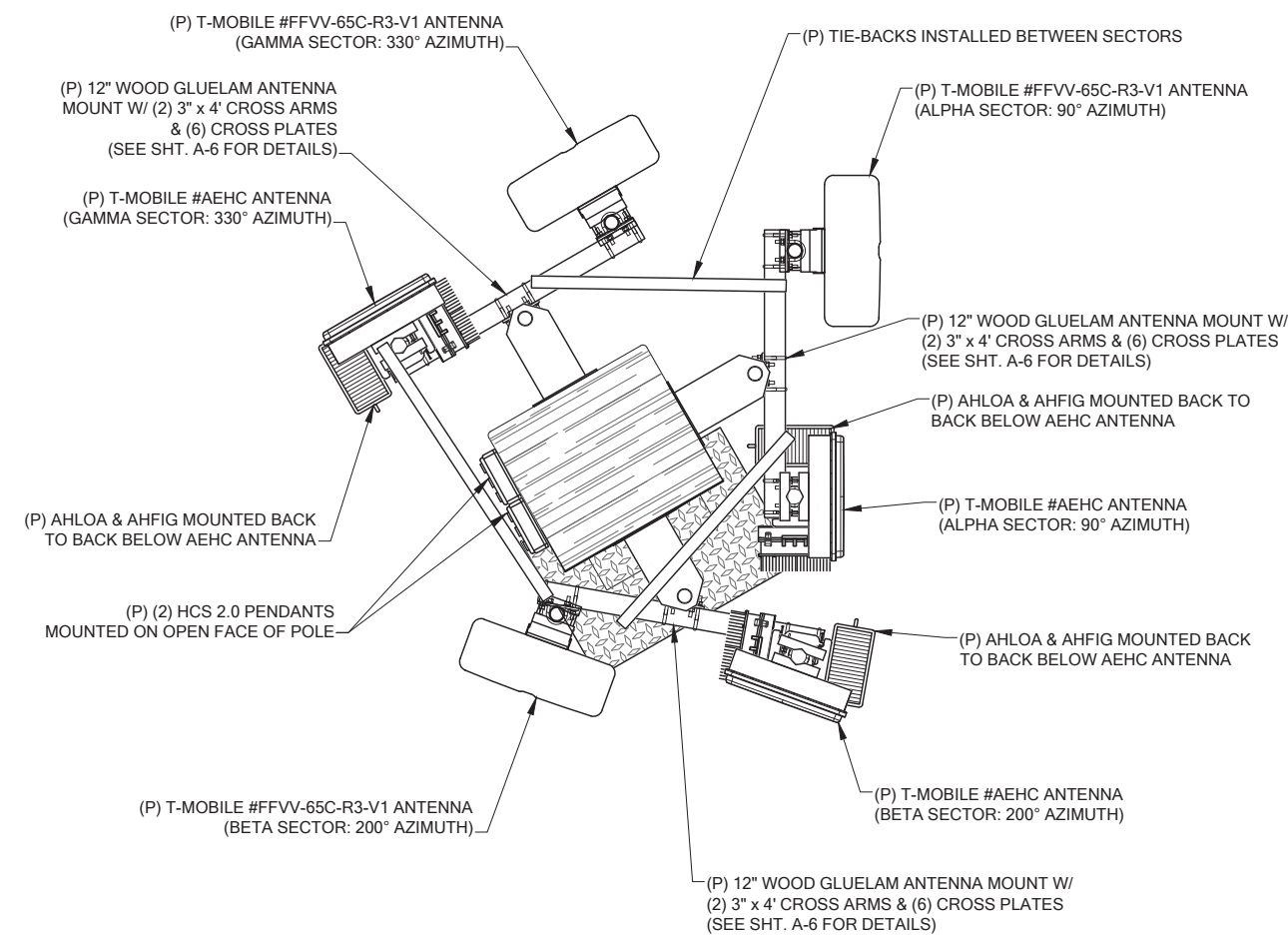
**COAX NOTE:**  
REMOVE ALL EXISTING COAX CABLES.



**EXISTING ENLARGED ANTENNA PLAN**

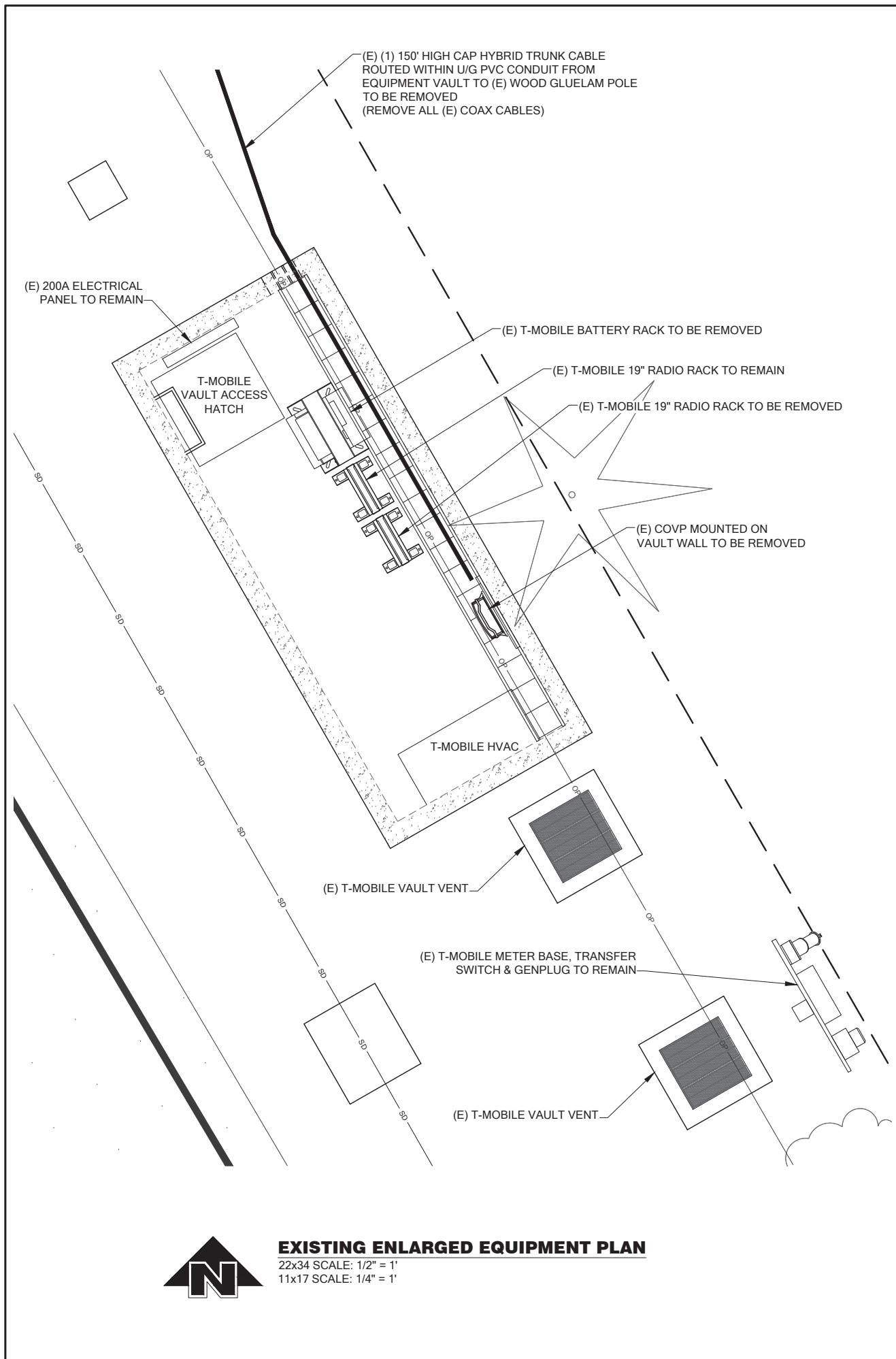
22x34 SCALE: 3/4" = 1'  
11x17 SCALE: 3/8" = 1'

**PAINT NOTE:**  
ALL ANTENNAS, RADIOS, CABLES & ATTACHMENTS TO BE PAINTED TO MATCH (E) WOOD GLUELAM POLE.

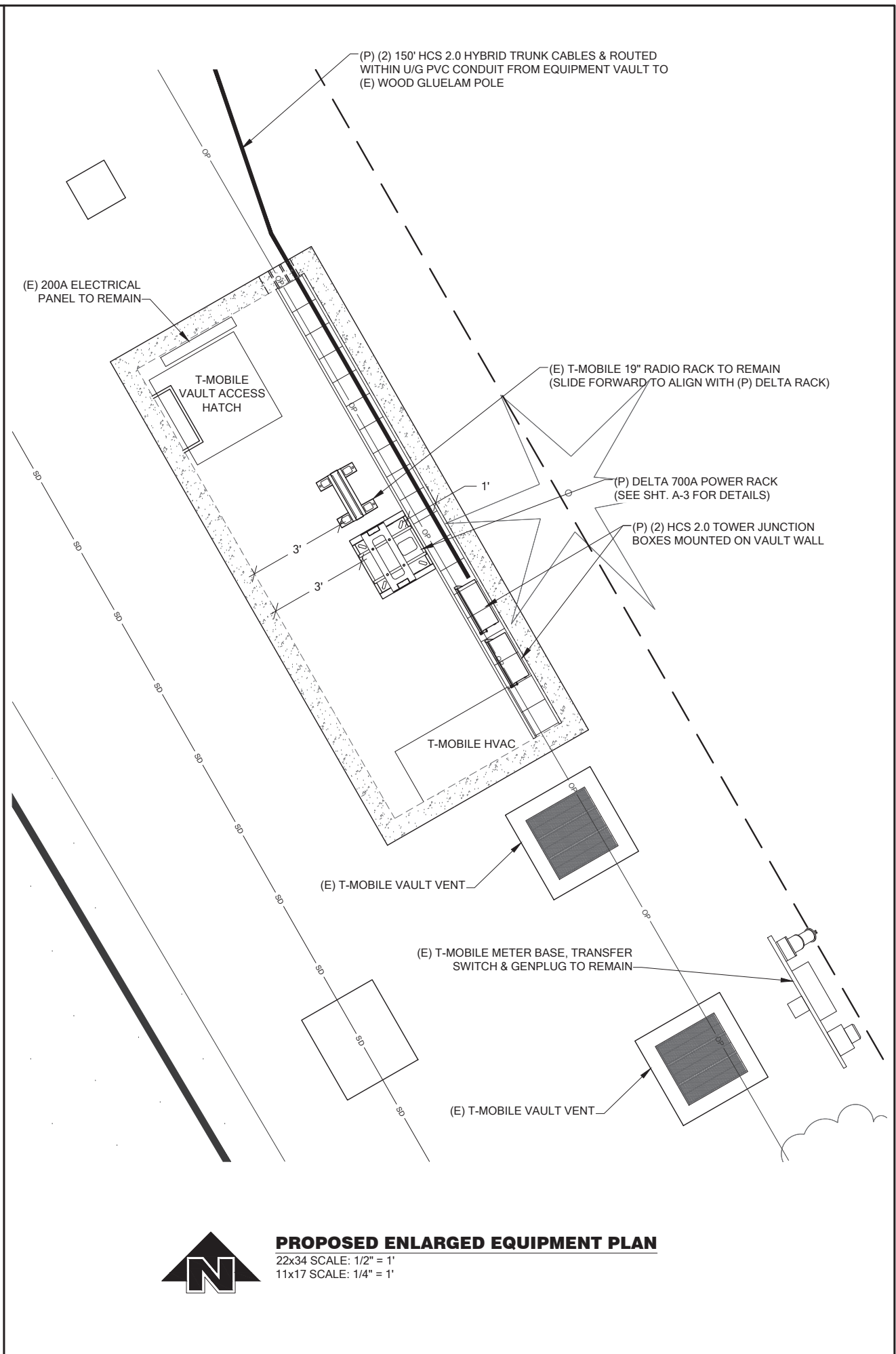


**PROPOSED ENLARGED ANTENNA PLAN**

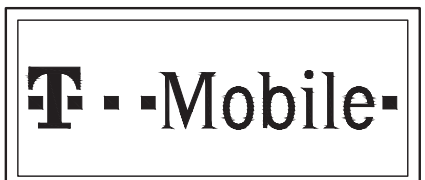
22x34 SCALE: 3/4" = 1'  
11x17 SCALE: 3/8" = 1'



**EXISTING ENLARGED EQUIPMENT PLAN**  
 22x34 SCALE: 1/2" = 1'  
 11x17 SCALE: 1/4" = 1'



**PROPOSED ENLARGED EQUIPMENT PLAN**  
 22x34 SCALE: 1/2" = 1'  
 11x17 SCALE: 1/4" = 1'



**PROJECT INFORMATION:**  
**SO. ISLAND CREST/PSE/ROW SE03440A**  
 4646 ISLAND CREST WAY  
 MERCER ISLAND, WA 98040

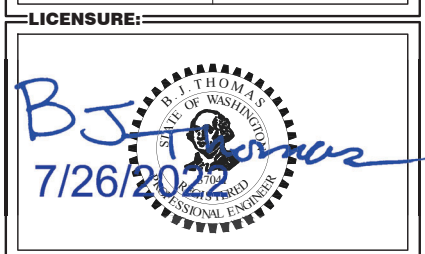
**ISSUED FOR:**  
**BUILDING PERMIT**

**REVISION HISTORY:**

NO.	DATE:	DESCRIPTION:	CHK. BY:
6	7/25/2022	MINOR REV	BJT
5	6/23/2022	REVISED PER REDLINES	BJT
4	6/22/2022	ISSUED REDESIGN REVIEW	BJT
3	10/26/2021	MINOR REV	BJT
2	10/26/2021	REVISED PER REDLINES	BJT
1	9/27/2021	ISSUED DESIGN REVIEW	BJT

**PLANS PREPARED BY:**  
**B. J. THOMAS, P.E.**  
 7607 80TH AVE NE  
 MARYSVILLE, WA 98270  
 206-851-1106

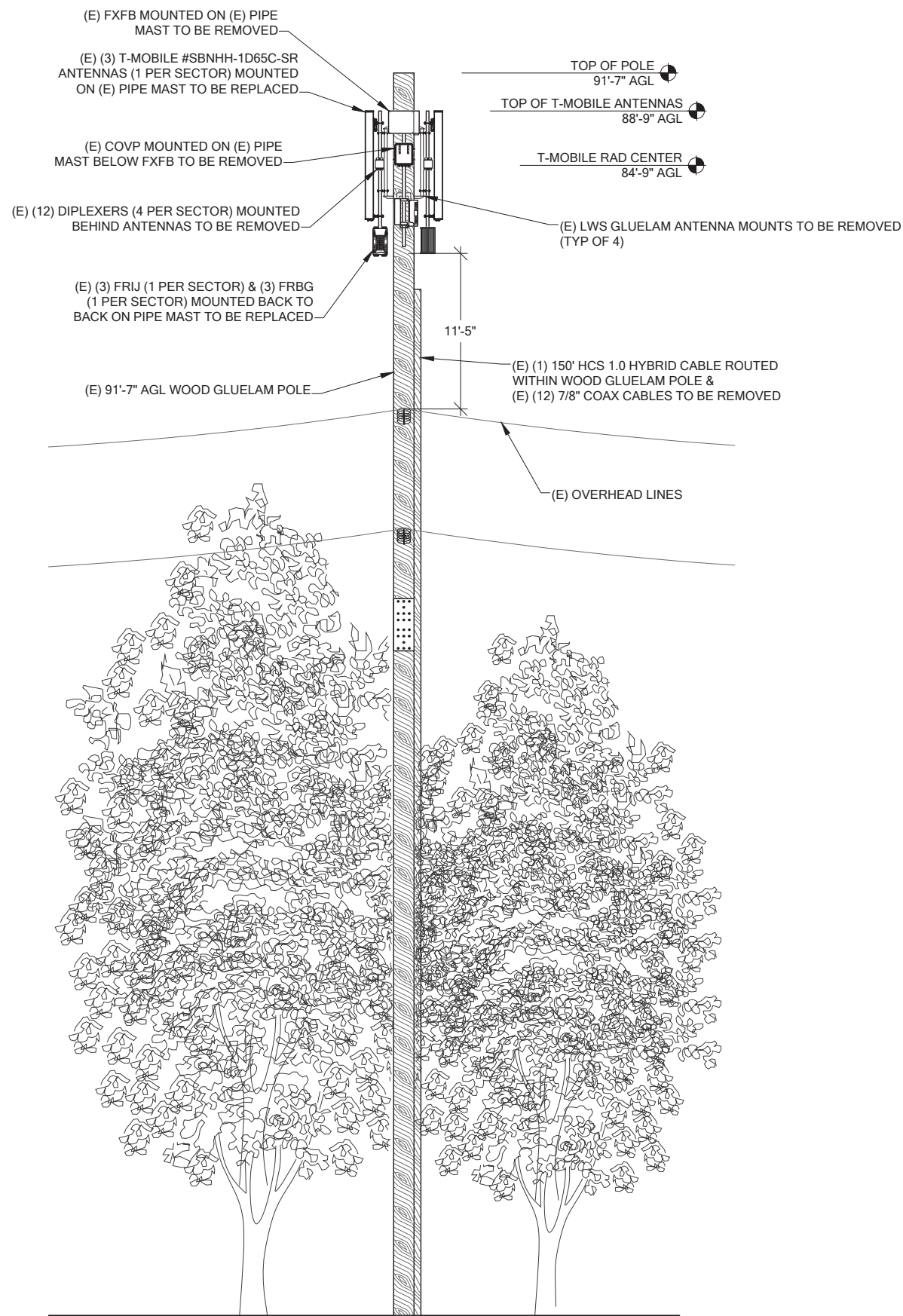
**DRAWN BY:** JL      **CHK. BY:** BJ



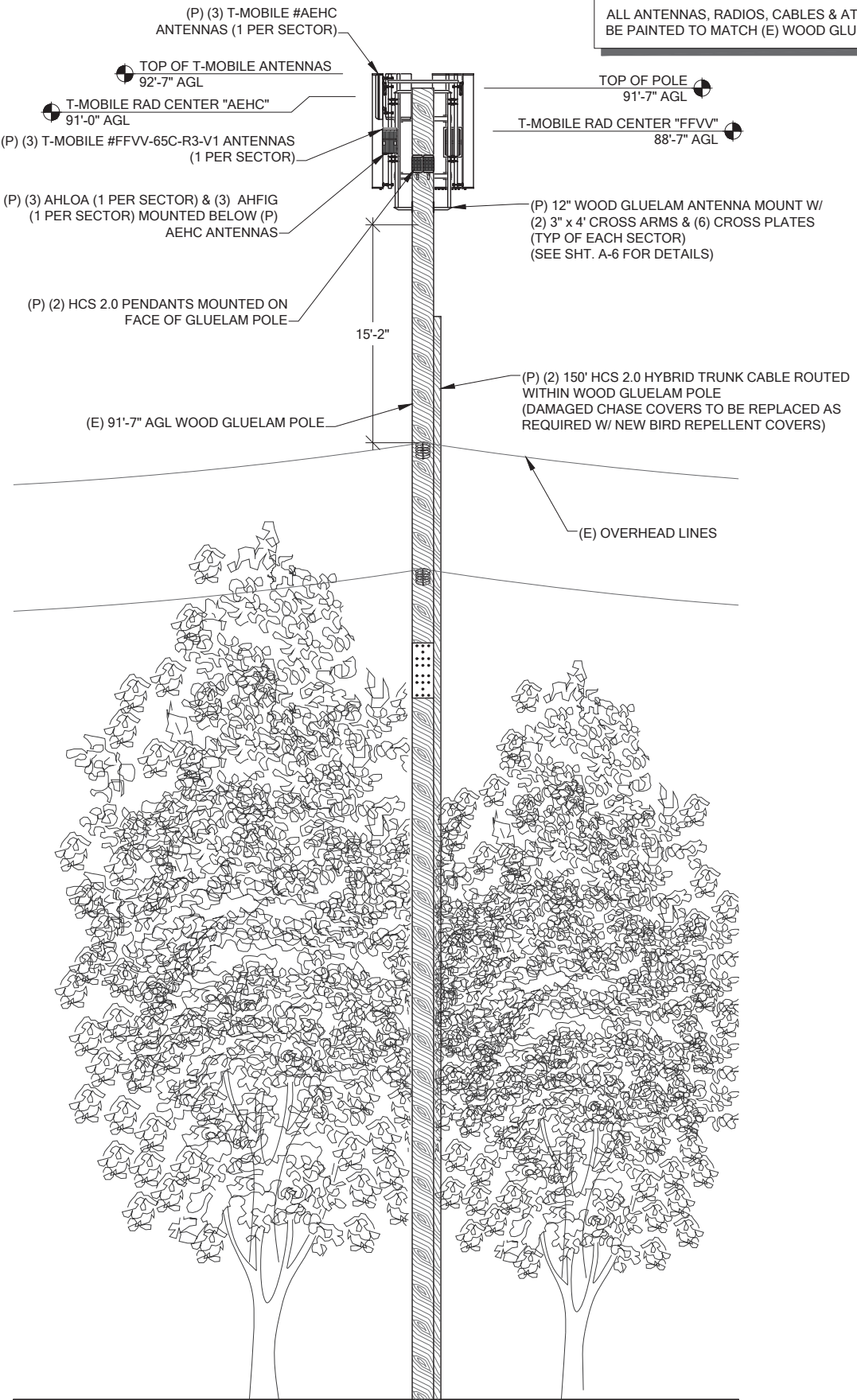
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**DRAWING TITLE:**  
**ENLARGED EQUIPMENT PLAN**

**DRAWING NUMBER:**  
**A-1.2**



**1 EXISTING SOUTHWEST ELEVATION**  
A-2 SCALE: NTS



**2 PROPOSED SOUTHWEST ELEVATION**  
A-2 SCALE: NTS

**PAINT NOTE:**  
ALL ANTENNAS, RADIOS, CABLES & ATTACHMENTS TO BE PAINTED TO MATCH (E) WOOD GLUELAM POLE.



**PROJECT INFORMATION:**  
**SO. ISLAND  
CREST/PSE/ROW  
SE03440A**  
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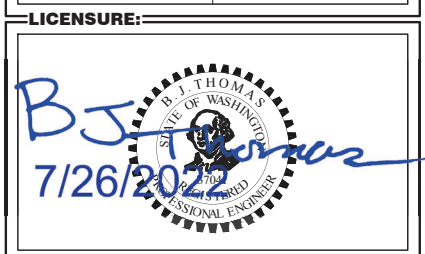
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**PLANS PREPARED BY:**  
**B. J. THOMAS, P.E.**  
**7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106**

**DRAWN BY:** JL **CHK. BY:** BJ



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**DRAWING TITLE:**  
**SITE  
ELEVATION**

**DRAWING NUMBER:**  
**A-2**

**"FINAL" SITE LOADING CHART**

SECTOR	COLOR	POSITION	ANTENNA MODEL #	VENDOR	AZIMUTH (TN)	RADIATION CENTER	HYBRID CABLE LENGTH	COAX CABLES	ADDITIONAL EQUIPMENT				
ALPHA	RED	1	AEHC	NOKIA	90°	91'-0" AGL	(2) 150' HCS 2.0 HYBRID TRUNK CABLES	N/A	(1) AHLOA				
		2	FFVV-65C-R3-V1	COMMSCOPE		88'-7" AGL			(1) AHFIG				
BETA	GREEN	1	FFVV-65C-R3-V1	COMMSCOPE	200°	88'-7" AGL			(2) 150' HCS 2.0 HYBRID TRUNK CABLES	N/A	(1) AHLOA		
		2	AEHC	NOKIA		91'-0" AGL					(1) AHFIG		
GAMMA	BLUE	1	FFVV-65C-R3-V1	COMMSCOPE	330°	88'-7" AGL					(2) 150' HCS 2.0 HYBRID TRUNK CABLES	N/A	(1) AHLOA
		2	AEHC	NOKIA		91'-0" AGL							(1) AHFIG

RFDS	
PROJECT TYPE	ANCHOR
RFDS VERSION	5



**PROJECT INFORMATION:**

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**4646 ISLAND CREST WAY  
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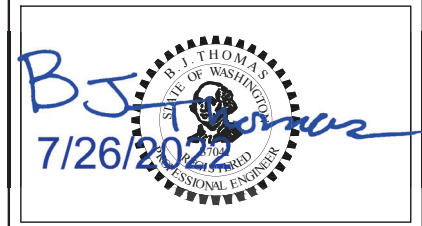
**PLANS PREPARED BY:**

**B. J. THOMAS, P.E.**  
**7607 80TH AVE NE**  
**MARYSVILLE, WA 98270**  
**206-851-1106**

**DRAWN BY:                      CHK. BY:**

JL	BJ
----	----

**LICENSURE:**



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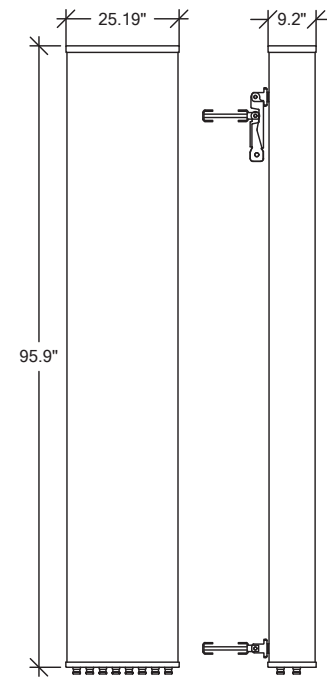
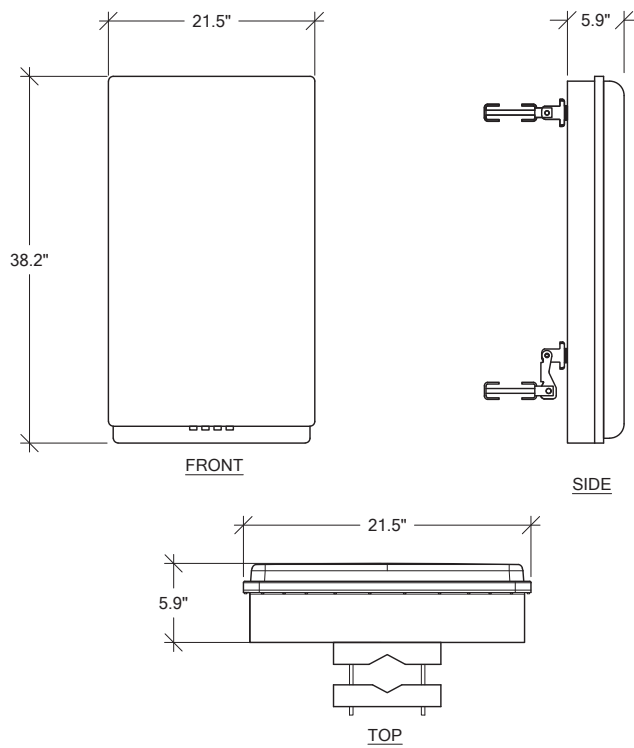
**DRAWING TITLE:**

**RF DETAILS**

**DRAWING NUMBER:**

**RF-1**

MANUFACTURER: NOKIA  
MODEL: AEHC  
WEIGHT: 108 LBS  
DIMENSIONS: 38.2" x 21.5" x 5.9"



<b>COMMSCOPE ANTENNA DATA</b>				
<b>MECHANICAL SPECIFICATIONS</b>				
PART NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT
FFVV-65C-R3-V1	95.9 in	25.19 in	9.2 in	124.5 lbs
CONNECTORS	STANDARD MOUNTING HARDWARE			
(8) 7-16 DIN	INCLUDED			
<b>ELECTRICAL SPECIFICATIONS</b>				
FREQUENCY	POLARIZATION	GAIN	AZIMUTH B.W.	
617-2690 MHz	±45°	16-18.6 dBi	57°- 68°	
	VSWR	MAX INPUT POWER	ELEVATION B.W.	
	<1.5:1	250 WATTS	4.1° - 10.2°	

1 AEHC DETAIL  
RF-1 SCALE: NTS

1 FFVV-65C-R3-V1 ANTENNA DETAIL  
RF-1 SCALE: NTS

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**SO. ISLAND  
CREST/PSE/ROW  
SE03440A**

**4646 ISLAND CREST WAY  
MERCER ISLAND, WA 98040**

**ISSUED FOR:**

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MARYSVILLE, WA 98270  
206-851-1106**

**DRAWN BY:                      CHK. BY:**

**JL**

**BJ**

**LICENSURE:**



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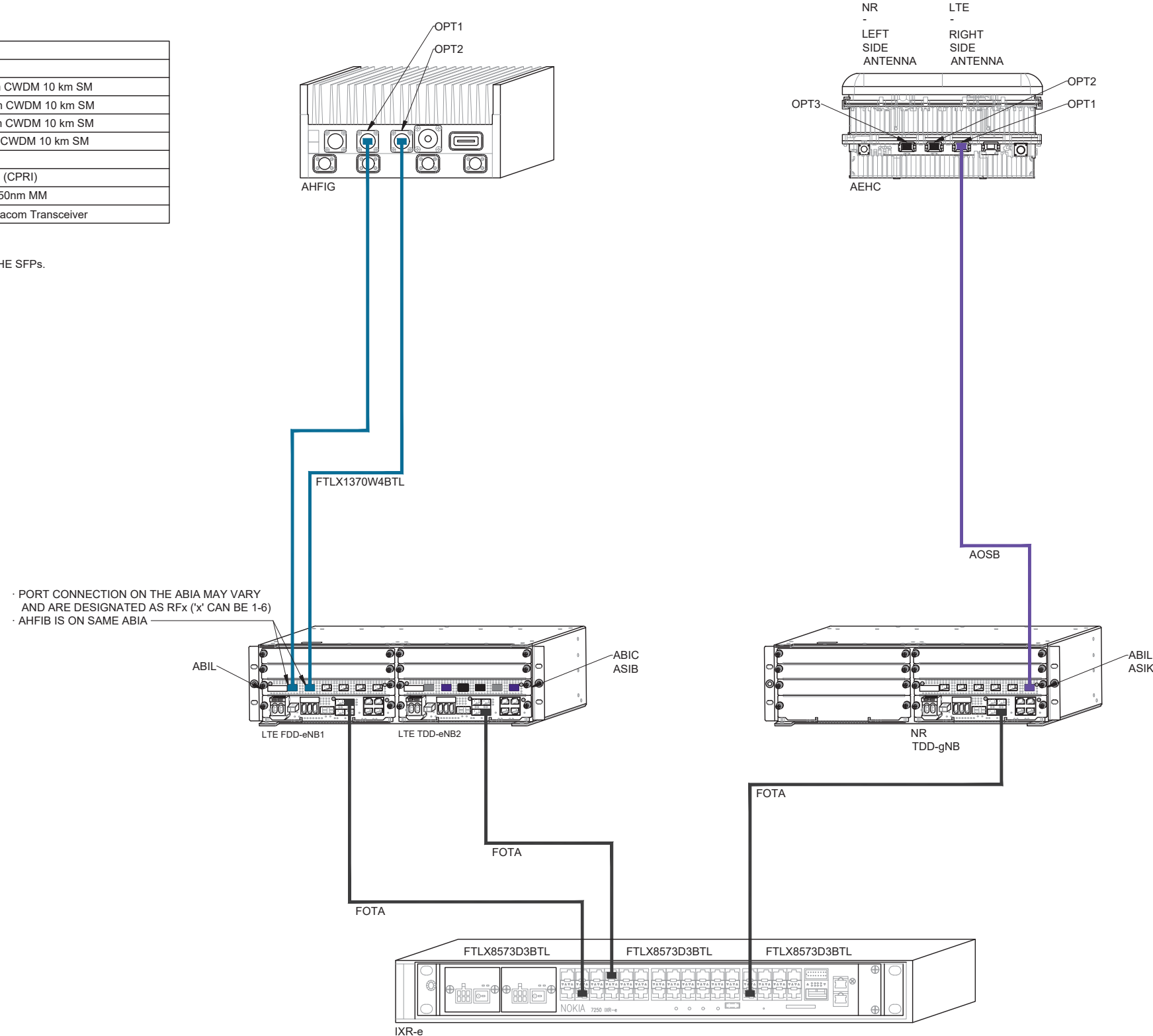
**SFP DETAILS**

**DRAWING NUMBER:**

**RF-1.1**

NOKIA ITEM CODE/SECTOR	PRODUCT NAME
474335A	x 2 FOCZ QSFP+ 4x10 km SM
474385A	x 2 FOUF SFP+ 10GBASE-LR 1271 nm CWDM 10 km SM
474386A	x 2 FOUH SFP+ 10GBASE-LR 1291 nm CWDM 10 km SM
474387A	x 1 FOUH SFP+ 10GBASE-LR 1311 nm CWDM 10 km SM
474388A	x 1 FOUI SFP+ 10GBASE-LR 1331 nm CWDM 10 km SM
474829A	x 2 AOSB QSFP28 SM 10 km LC
FTLX1370W4BTL	x 4 SM SFP 1310 nm CPRI 9.8G 1.4km (CPRI)
473471A	x 3 FOTA Optical SFP+ 10GBase-SR 850nm MM
FTLX8573D3BTL	x 3 10Gb/s 850nm Multimode SFP+ Datacom Transceiver

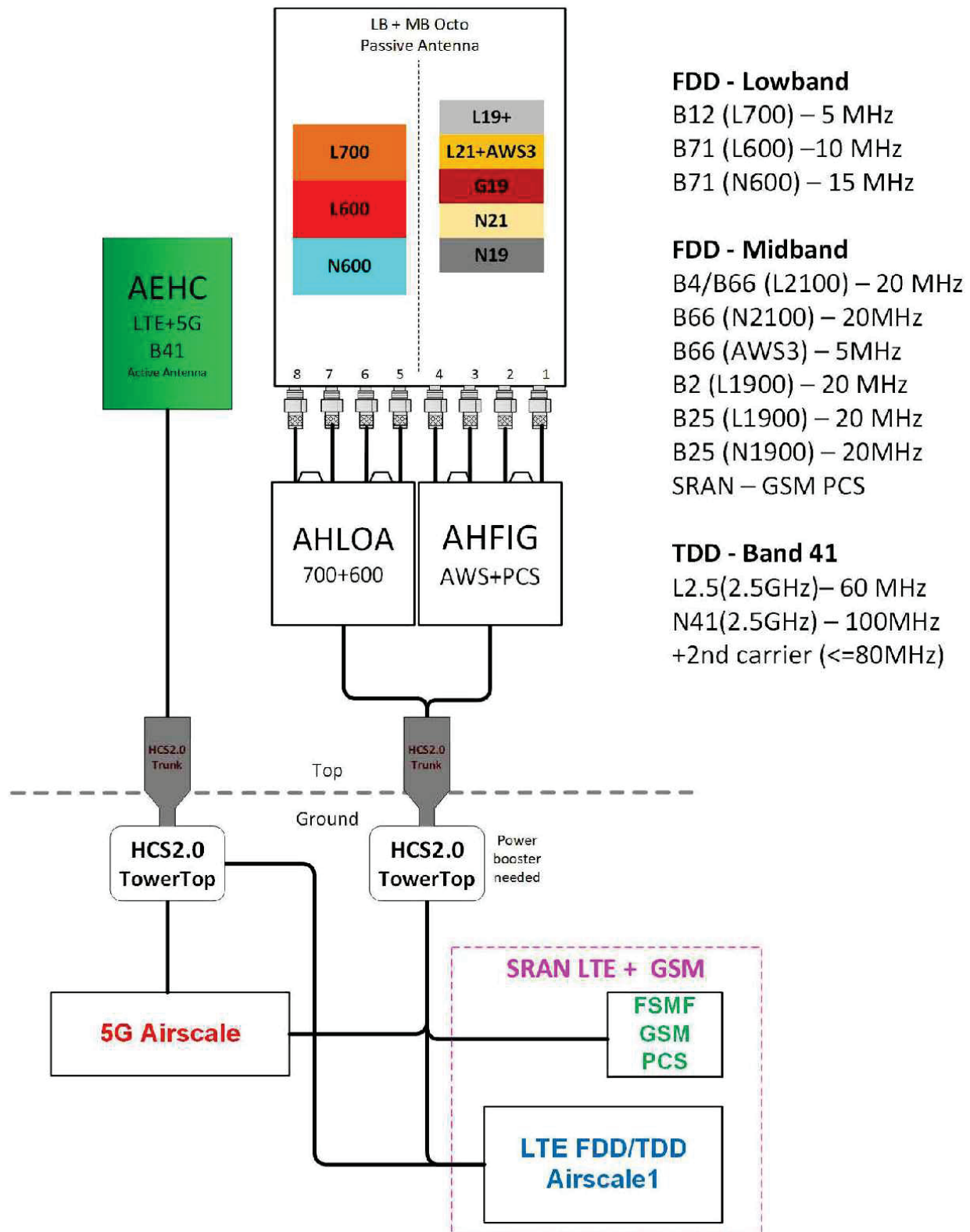
NOTE:  
JDSU AND EXFO GEAR CAN BE USED TO READ WAVELENGTH ON THE SFPs.





# Configuration 56790EZ\_SR\_T

\* For 5G and LTE Airscale BB dimensioning refer to Fiber Port matrices.  
(Alpha, Beta & Gamma)



Notes:



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 SE03440A**

**4646 ISLAND CREST WAY  
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**PLANS PREPARED BY:**

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 7607 80TH AVE NE  
 MARYSVILLE, WA 98270  
 206-851-1106**

**DRAWN BY:                      CHK. BY:**

**JL                                      BJ**

**LICENSURE:**



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**DRAWING TITLE:**

**RF DETAILS**

**DRAWING NUMBER:**

**RF-2**

**PROJECT INFORMATION:**

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CREST/PSE/ROW  
SE03440A**

**4646 ISLAND CREST WAY  
MERCER ISLAND, WA 98040**

**ISSUED FOR:**

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**PLANS PREPARED BY:**

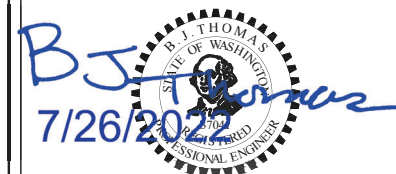
**B. J. THOMAS, P.E.  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106**

**DRAWN BY: CHK. BY:**

JL

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**DRAWING TITLE:**

**BTS EQUIPMENT  
DETAILS**

**DRAWING NUMBER:**

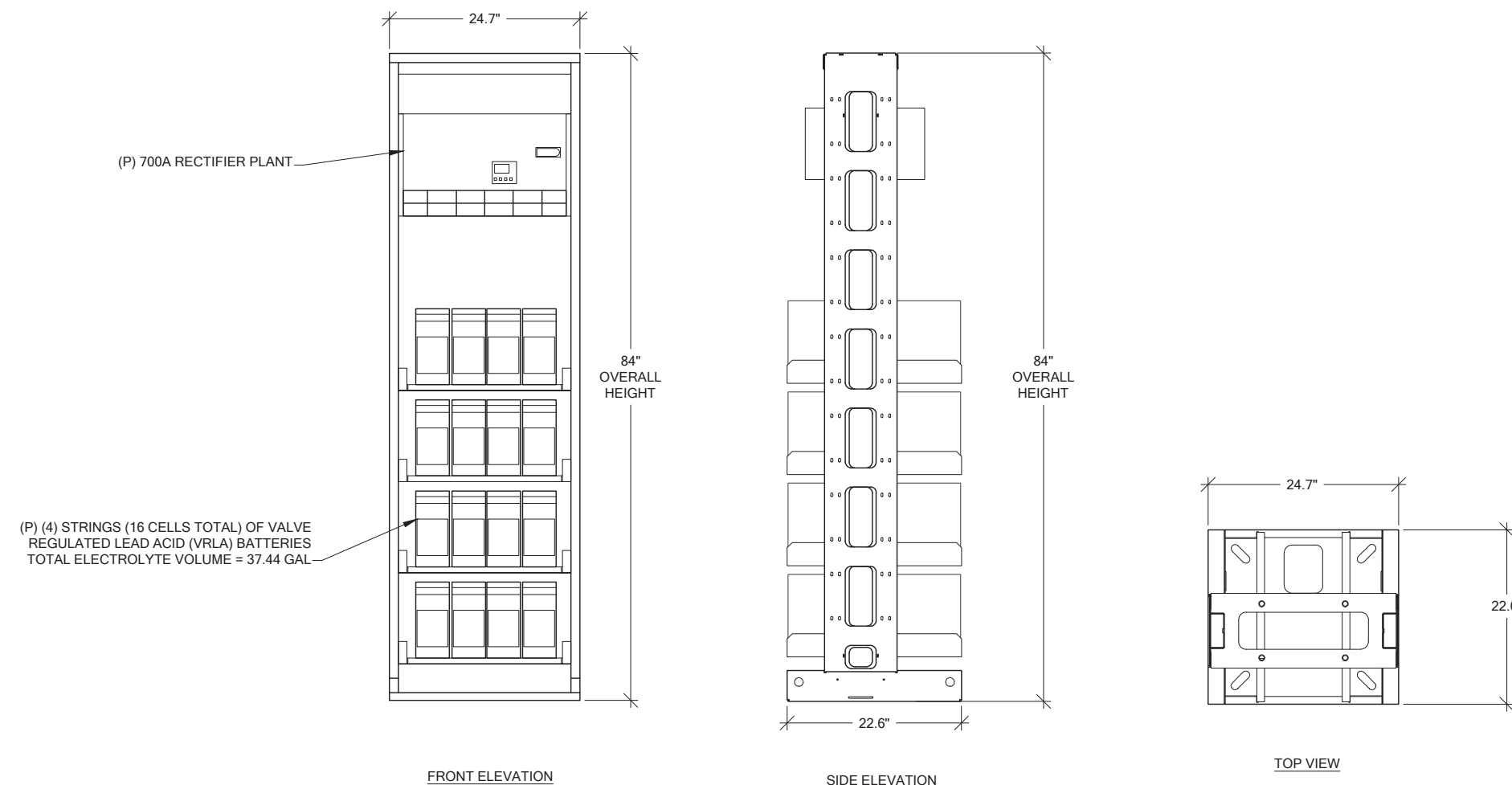
**A-3**

**FIRE CODE / BATTERY NOTES:**

PROPOSED BATTERY INFORMATION:  
MAXIMUM OF (4) STRINGS OF (4) (16 CELLS TOTAL) OF VALVE REGULATED LEAD ACID BATTERIES (VRLA) MODEL POWERSAFE SBS 190F WITH IMMOBILIZED ELECTROLYTE TECHNOLOGY. TOTAL CAPACITY 36.48 KWH. COMPLIANCE WITH INTERNATIONAL FIRE CODE SECTION 1206.2 IS NOT REQUIRED.

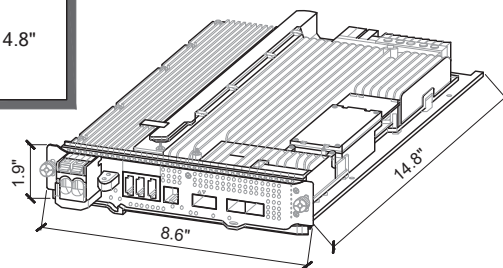
1. THE CONTRACTOR SHALL ENSURE COMPLIANCE WITH CHAPTER 33 OF THE INTERNATIONAL FIRE CODE FOR ALL CONSTRUCTION ACTIVITIES. ADEQUATE FIRE APPARATUS ACCESS SHALL BE PROVIDED TO THE BUILDING AND SITE AT ALL TIMES DURING CONSTRUCTION.
2. IF THE QUANTITY OF VRLA BATTERIES EXCEEDS 50 GALLONS OF ELECTROLYTE, THE SITE SHALL COMPLY WITH IFC SECTION 608 REGARDING SELF-RESEALING FLAME-ARRESTING CAPS, THERMAL RUNAWAY MANAGEMENT, NEUTRALIZATION, VENTILATION, SIGNAGE, SEISMIC PROTECTION AND SMOKE DETECTION.

DELTA 700A POWER RACK
HEIGHT: 84"
DEPTH: 22.6"
WIDTH: 24.7"
MAXIMUM CABINET WEIGHT (WITHOUT BATTERIES & RECTIFIERS) 250 LBS

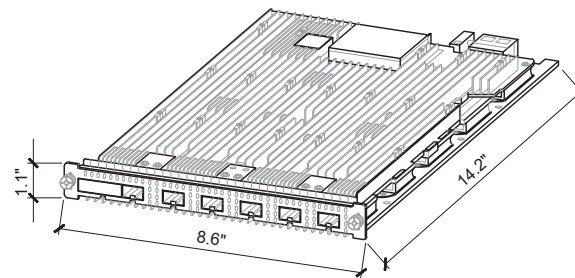


**1 DELTA 700A POWER RACK SPECIFICATION**  
A-3 SCALE: NTS

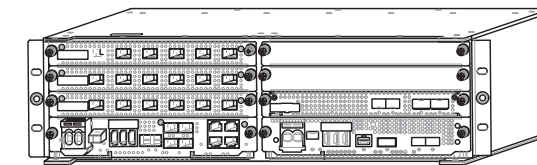
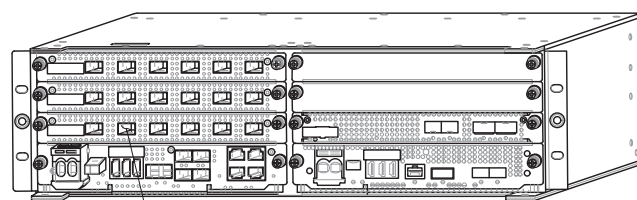
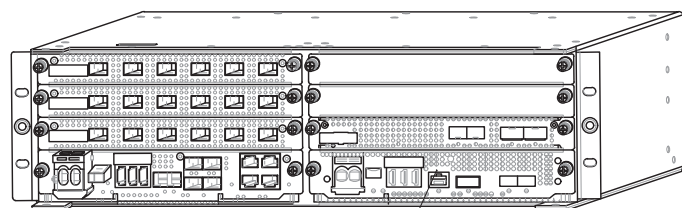
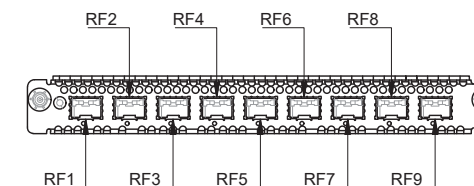
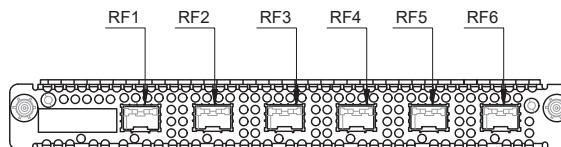
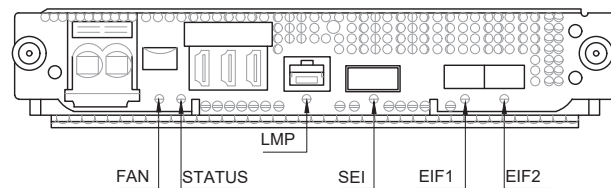
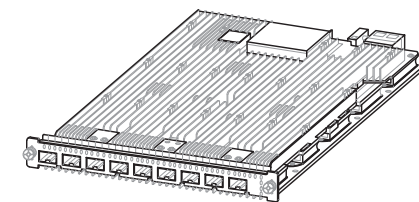
MANUFACTURER: NOKIA  
 MODEL: ASIL  
 DIMENSION (HxWxD) 1.9" x 8.6" x 14.8"  
 WEIGHT: 6.8 LBS



MANUFACTURER: NOKIA  
 MODEL: ABIA  
 DIMENSION (HxWxD) 1.1" x 8.6" x 14.2"  
 WEIGHT: 4.6 LBS



MANUFACTURER: NOKIA  
 MODEL: ABIO  
 DIMENSION (HxWxD) 0.9" x 8.6" x 14.3"  
 WEIGHT: 5.8 LBS



PROPOSED ASIL LOCATED WITHIN AMIA RACK  
**1 ASIL DETAIL**  
 SCALE: NTS

PROPOSED ABIA LOCATED WITHIN AMIA RACK  
**2 ABIA DETAIL**  
 SCALE: NTS

**3 ABIO DETAIL**  
 SCALE: NTS

**PROJECT INFORMATION:**

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 SE03440A**

**4646 ISLAND CREST WAY  
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**ISSUED FOR:**

**BUILDING PERMIT**

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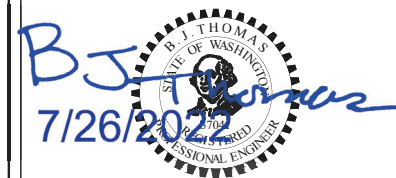
**PLANS PREPARED BY:**

**B. J. THOMAS, P.E.**  
**7607 80TH AVE NE**  
**MARYSVILLE, WA 98270**  
**206-851-1106**

**DRAWN BY: CHK. BY:**

**JL BJ**

**LICENSURE:**



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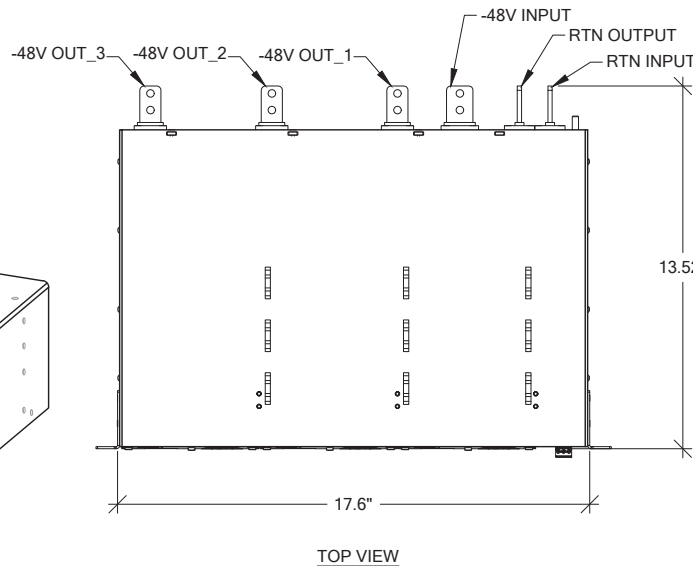
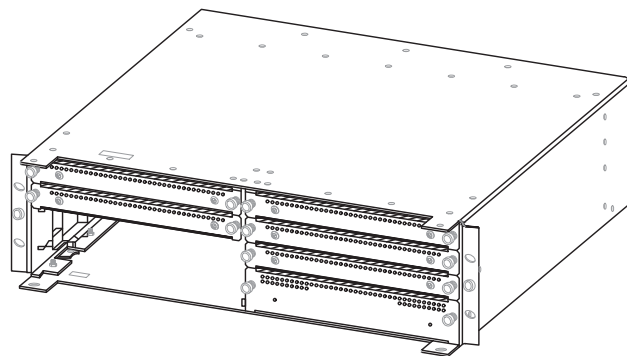
**DRAWING TITLE:**

**GENERAL DETAILS**

**DRAWING NUMBER:**

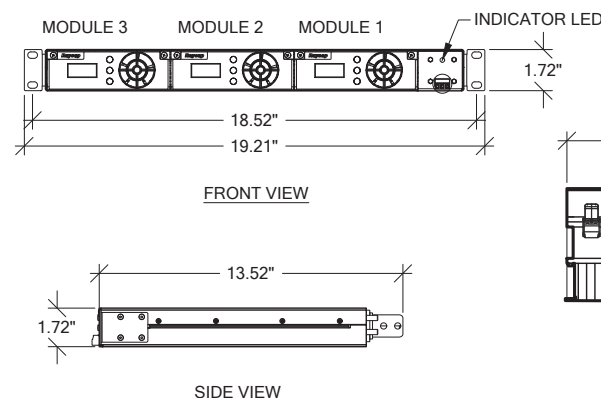
**A-4**

MANUFACTURER: NOKIA  
 MODEL: AMIA  
 DIMENSION (HxWxD) 5.1" x 15.7" x 17.6"  
 WEIGHT: 11.2 LBS (UNIT ONLY)



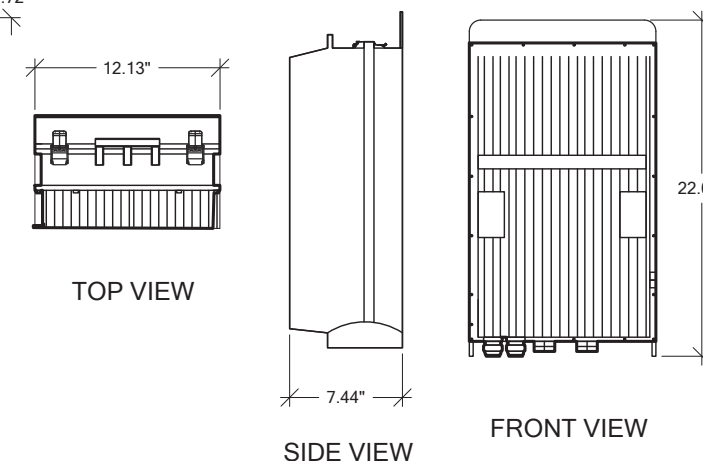
**POWER PLUS 100-3-1U**

TOTAL POWER: 19.5 kW  
 MAX OUTPUT CURRENT: 300 A  
 MAX INPUT CURRENT: 100 A  
 DIMENSION (MODULE) (HxWxD) 1.61" x 5.12" x 6.85"  
 WEIGHT (MODULE): 2.14lbs  
 NET WEIGHT (RACK): 11.24lbs



**RADIO MODULE FOR 600/700MHz RRH**

MANUFACTURER: NOKIA  
 MODEL: AHLOA  
 NET WEIGHT: 83.78 LBS  
 DIMENSION (LxWxD) 22.05" x 12.13" x 7.44"



**4 AMIA DETAIL**  
 SCALE: NTS

**5 VOLTAGE BOOSTER DETAIL**  
 SCALE: NTS

**6 AHLOA DETAIL**  
 SCALE: NTS

**PROJECT INFORMATION:**

**SO. ISLAND  
CREST/PSE/ROW  
SE03440A**

**4646 ISLAND CREST WAY  
MERCER ISLAND, WA 98040**

**ISSUED FOR:**

**BUILDING PERMIT**

**REVISION HISTORY:**

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1	9/27/2021	ISSUED DESIGN REVIEW	BJT

**PLANS PREPARED BY:**

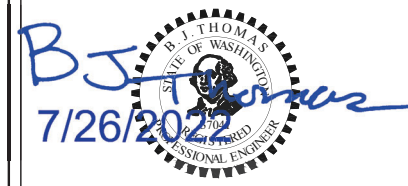
**B. J. THOMAS, P.E.  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106**

**DRAWN BY: CHK. BY:**

**JL**

**BJ**

**LICENSURE:**



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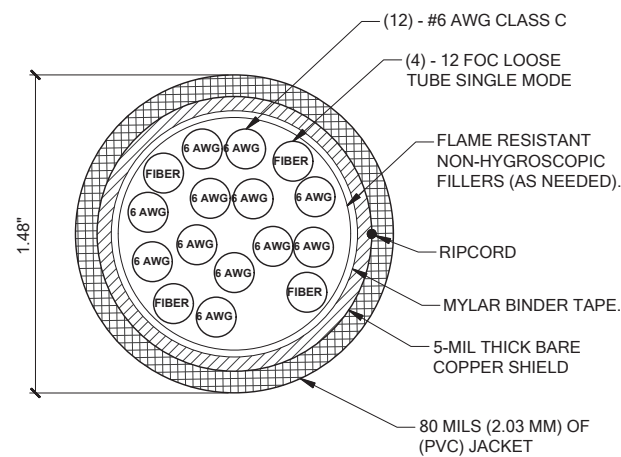
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**GENERAL DETAILS**

**DRAWING NUMBER:**

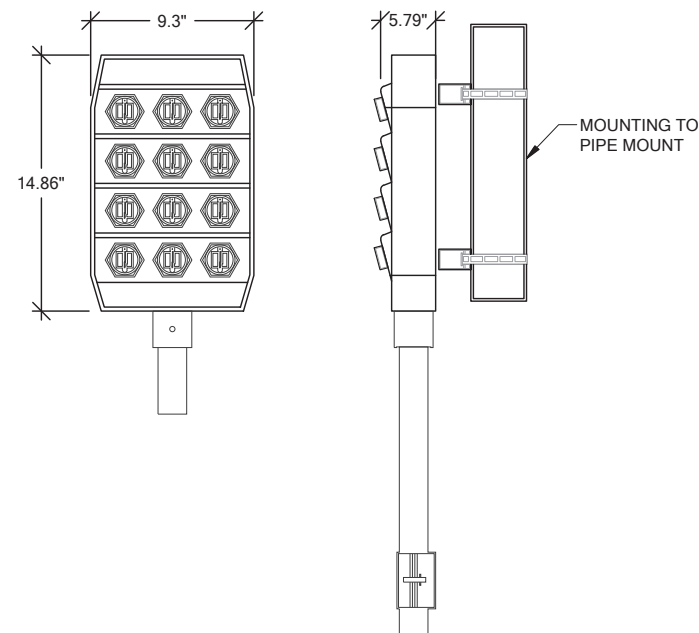
**A-5**

HYBRID CABLE		
STRUCTURE	# OF CABLES	LENGTH
GLUELAM	2	150'



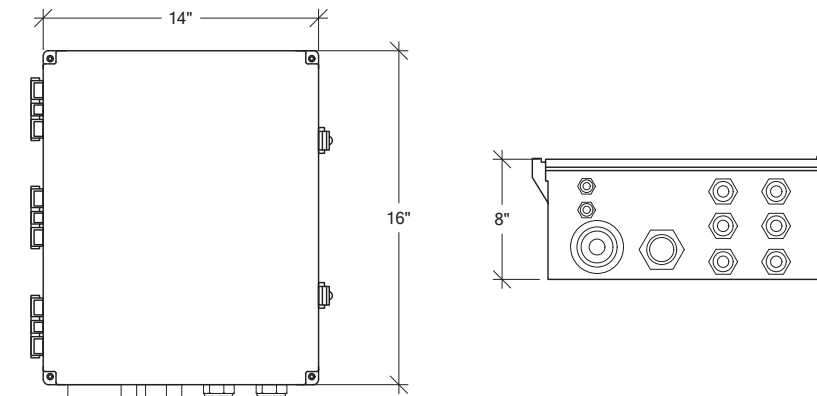
**1 HYBRID TRUNK CABLE DETAIL**  
SCALE: NTS

**MANUFACTURER:** ALLIANCE CORPORATION  
**MODEL:** ACFB05-HICAP-FULLASY-CRS  
**DIMENSION (HxWxD):** 9.3" x 14.86" x 5.79"  
**WEIGHT:** 8.76LBS  
**MOUNTING KIT:** PROVIDED



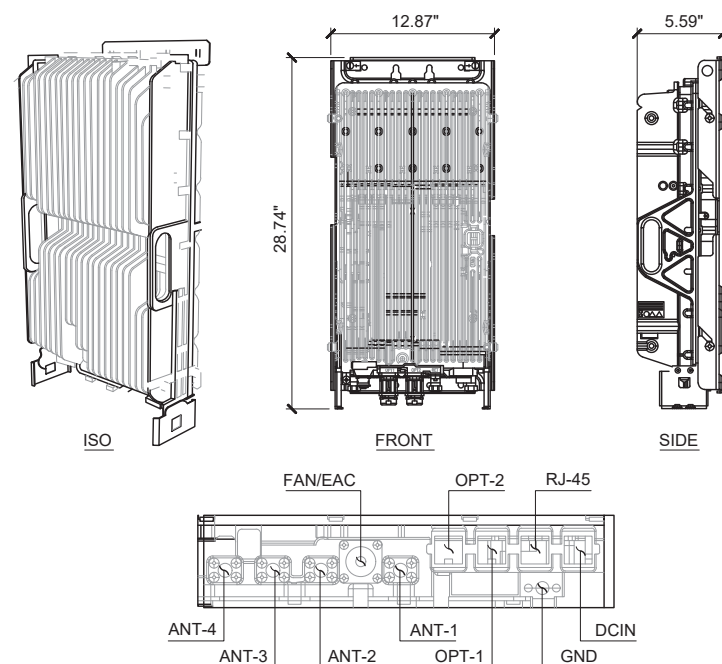
**2 HCS 2.0 PENDANT DETAIL**  
SCALE: NTS

**FIBER & POWER JUNCTION BOX W/ OVP**  
**MANUFACTURER:** COMMSCOPE  
**MODEL:** FE-16148-OVP-B12  
**DIMENSION (HxWxD):** 16" x 14" x 8"  
**WEIGHT:** 23.5lbs



**3 OVP/JUNCTION BOX DETAIL**  
SCALE: NTS

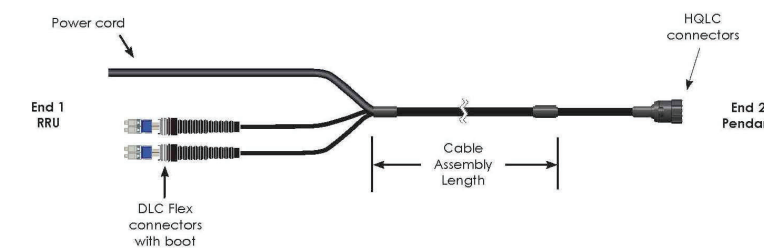
**MANUFACTURER:** NOKIA  
**MODEL:** AHFIG  
**WEIGHT:** 70.5 LBS  
**DIMENSION (LxWxD) w/ COVER:** 28.74" x 12.87" x 5.59"



**4 AHFIG DETAIL**  
SCALE: NTS

**General Specifications**

	HFT410-4SNOK2-xx HELIX® FiberFeed®	HFT410-4SNOK3-xx (for FASB) HELIX® FiberFeed®
<b>Cable Type</b>	HFT410-4SNOK2-xx	HFT410-4SNOK3-xx (for FASB)
<b>Brand</b>	HELIX® FiberFeed®	HELIX® FiberFeed®
<b>Total Fiber Quantity</b>	4	4
<b>Fiber Type</b>	Bend insensitive single mode fiber (G.657.A2)	Bend insensitive single mode fiber (G.657.A2)
<b>Jacket Color</b>	Black	Black
<b>Dimensions</b>		
<b>Cable Weight</b>	456.1 kg/km   306.5 lb/ktf	456.1 kg/km   306.5 lb/ktf
<b>Breakout Length Fiber, end 1</b>	815 mm   32 in	1560 mm   61 in
<b>Breakout Length Power, end 1</b>	895 mm   35 in	457 mm   18 in
<b>Breakout Length Fiber, end 2</b>	600 mm   24 in	600 mm   24 in
<b>Diameter Over Jacket</b>	1831 mm   0.72 in	1831 mm   0.72 in
<b>Physical Specifications</b>		
<b>Minimum Bend Radius, loaded</b>	365.8 mm   14.4 in	365.8 mm   14.4 in
<b>Minimum Bend Radius, unloaded</b>	221.0 mm   8.7 in	221.0 mm   8.7 in
<b>Tensile Load, long term, maximum</b>	801 N   180 lbf	801 N   180 lbf
<b>Tensile Load, short term, maximum</b>	2669 N   600 lbf	2669 N   600 lbf



**5 HCS 2.0 HYBRID JUMPER DETAIL**  
SCALE: NTS

**HELIX FiberFeed Hybrid Jumpers**

Fiberfeed hybrid jumpers are constructed specifically for the conditions of the last few feet to the RRU.

**Features**

- Smallest cable diameter for high flexibility
- Corrugated aluminum shield resists bird/animal damage
- Exact fit to Pendant and RRU

**Specifications**

Cable Series	# of Power Conductors	# of Fibers	End 1 Power Breakout (inches)	End 1 Fiber Breakout (inches)	End 2 Fiber Breakout (inches)
<b>Hybrid Jumpers</b>					
10 AWG power conductor wire					
4 Single mode fibers					
HFT410-4SNOK2	4	4	35	32	24
HFT410-4SNOK3	4	4	18	61	24

**Hybrid Jumpers for Nokia Radios**

**Ordering Information**

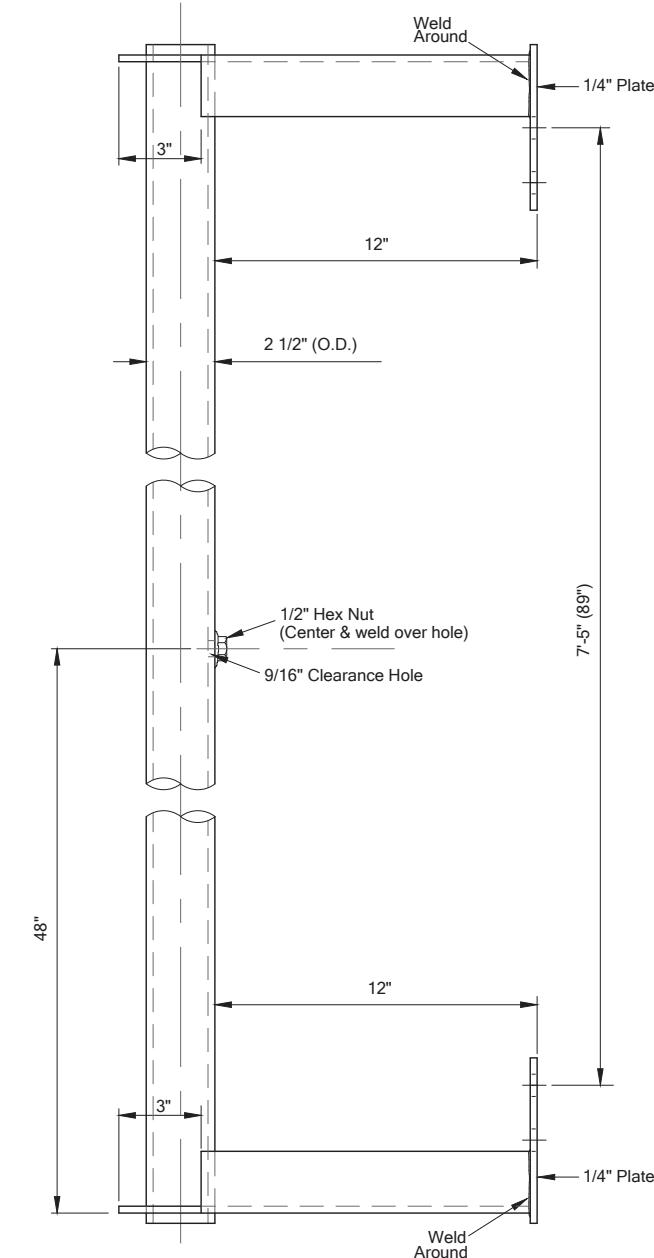
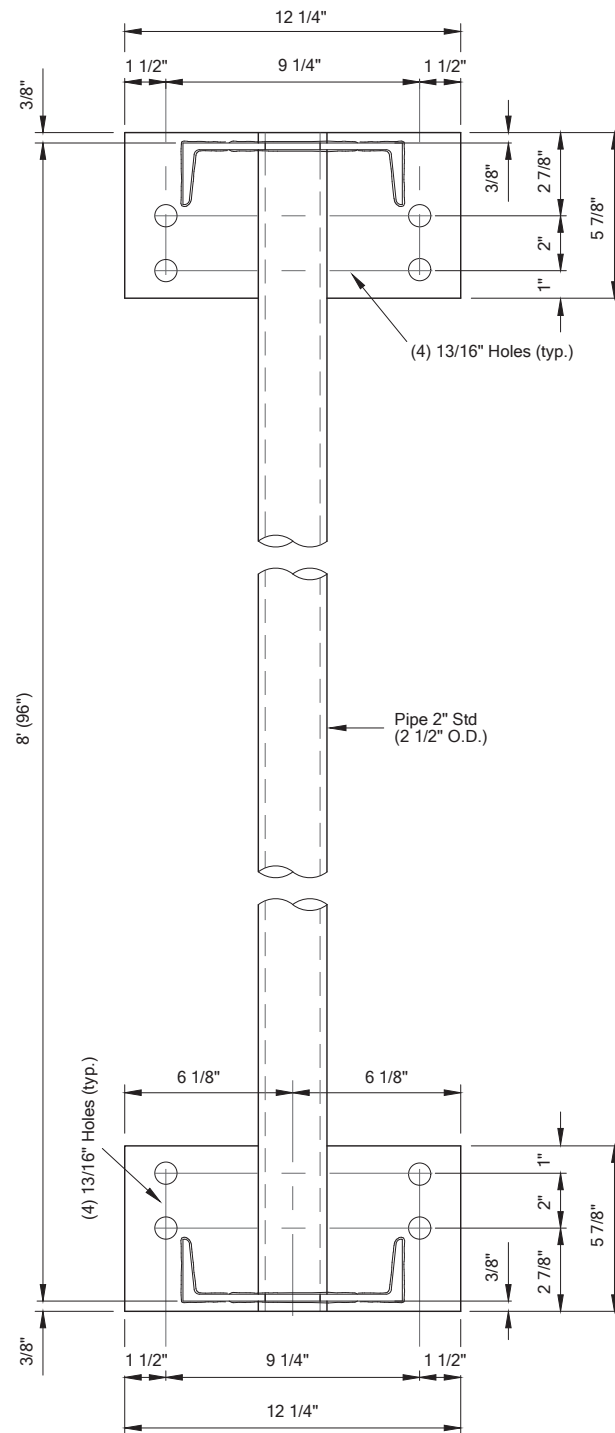
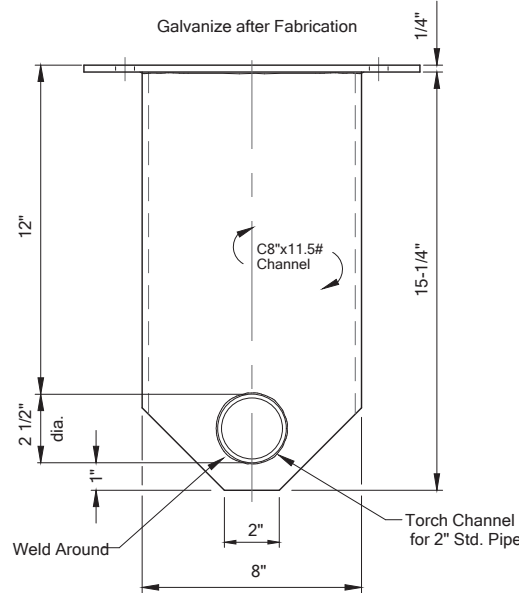
Description	Length (feet)	Part Number
<b>Hybrid Jumpers for Nokia Radios</b>	6	HFT410-4SNOK2-6
End 1: 4 fibers terminated DLC for Nokia RRU with flush cut power cord (red/black conductor).	10	HFT410-4SNOK2-10
End 2: 4 fibers terminated LC and 4 X 10 AWG conductors terminated at hybrid trunk connector (HQLC)	15	HFT410-4SNOK2-15
	20	HFT410-4SNOK2-20
	25	HFT410-4SNOK2-25
	30	HFT410-4SNOK2-30
	40	HFT410-4SNOK2-40
	50	HFT410-4SNOK2-50
	60	HFT410-4SNOK2-60
	70	HFT410-4SNOK2-70
	80	HFT410-4SNOK2-80
	90	HFT410-4SNOK2-90
	100	HFT410-4SNOK2-100

Note: Longer lengths are available; contact your CommScope sales representative for details.



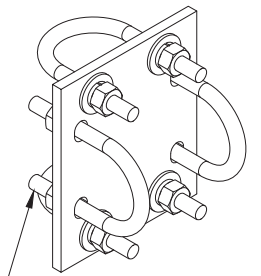
ANTENNA MOUNT DETAIL DRAWINGS PROVIDED BY LWS LAMINATED POLE MANUFACTURER

Tolerances:  
 Plate Dimensions ±1/16"  
 Hole Locations ±1/32"



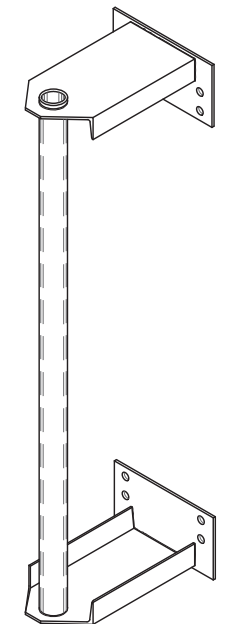
"SCL-0006.06E1A" Antenna Mounting Bracket

PIPE TO PIPE CROSSOVER KIT (VALMONT #SCX1-K)



NOTES:  
 FITS PIPES 2-3/8" TO 2-3/8".  
 (KIT INCLUDES - (1) PLATE, (4) U-BOLTS, & HARDWARE)

**1 PIPE TO PIPE CROSSOVER DETAIL**  
 A-6 SCALE: NTS



**PROJECT INFORMATION:**  
**SO. ISLAND CREST/PSE/ROW SE03440A**  
 4646 ISLAND CREST WAY  
 MERCER ISLAND, WA 98040

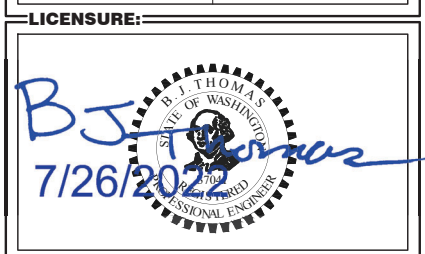
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**PLANS PREPARED BY:**  
**B. J. THOMAS, P.E.**  
 7607 80TH AVE NE  
 MARYSVILLE, WA 98270  
 206-851-1106

**DRAWN BY:** JL **CHK. BY:** BJ



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**DRAWING TITLE:**  
**ANTENNA MOUNT DETAILS**

**DRAWING NUMBER:**  
**A-6**

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CREST/PSE/ROW  
SE03440A**

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**PLANS PREPARED BY:**

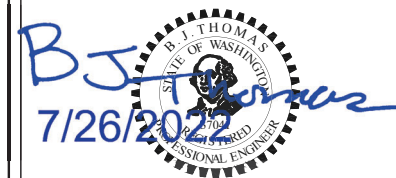
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


**DRAWING TITLE:**

**ELECTRICAL  
GROUNDING PLAN**

**DRAWING NUMBER:**

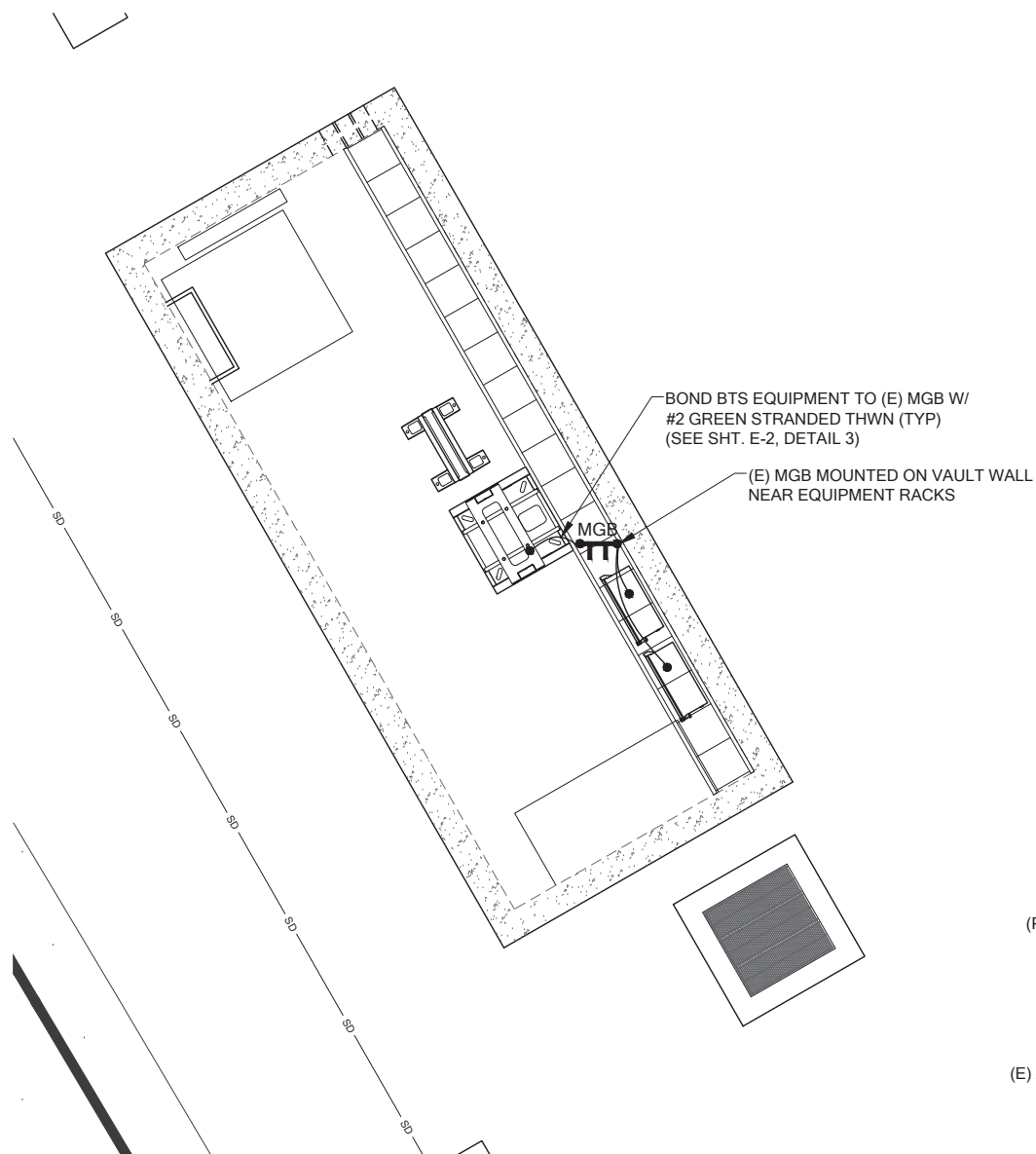
**E-1**

**SYMBOL LEGEND:**

- MGB  

**MASTER GROUND BAR 1/4"x4"x24" COPPER**
- AGB  

**ACCESSORY GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20" COPPER**
- 
**EXPOSED WIRING**
- 
**UNDERGROUND WIRING**
- 
**CADWELD**
- 
**MECHANICAL CONNECTION**

**GROUNDING NOTES:**

1. GROUNDING SHALL COMPLY WITH LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. MINIMUM BENDING RADIUS FOR GROUND CONDUCTOR IS 8".
3. NO SPLICES PERMITTED IN GROUND CONDUCTORS.
4. ALL GROUNDING CONNECTORS TO BE CLEAN AND FREE OF PAINT AT THEIR MATING SURFACES AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. USE PENETROX OR EQUIVALENT ANTIOXIDANT GREASE.
5. ALL GROUND BAR CONNECTIONS ARE TO BE 2 HOLE LUG COMPRESSION TYPE. STACKED CONNECTIONS ARE NOT ACCEPTABLE. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR WILL BE PERMITTED.
6. ENSURE ALL MECHANICAL CONNECTORS ARE TORQUED TO THE MANUFACTURER'S SPECIFIED VALUES.
7. MULTIPLE BONDS ON GROUND RODS TO BE SEPARATED BY AT LEAST 6".
8. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED A RESISTANCE OF 5 OHMS TO EARTH.
9. GROUND WIRES SHALL NOT BE INSTALLED THROUGH HOLES IN ANY METAL OBJECTS OR SUPPORTS; TO PRECLUDE ESTABLISHING A "CHOKE" POINT.
10. GROUND BARS SHALL NOT BE FIELD MODIFIED.
11. GROUND RING BURIAL DEPTH SHALL BE 30".
12. A CERTIFIED CONTRACTOR WILL MAKE ALL MEASUREMENTS REQUIRED TO TEST THE GROUNDING SYSTEM USING A MEGGER OR EQUIVALENT. THE ACCEPTABLE RESISTANCE MEASURED FOR THE GROUNDING SYSTEM WILL NOT EXCEED 5 OHMS RESISTANCE. THREE DISTANCES SHALL BE USED: 1 AT 100 FEET, 1 AT 70 FEET, AND 1 AT 35 FEET. THESE DISTANCES ARE SUBJECT TO A SITE BY SITE BASIS. T-MOBILE-WTS SHALL BE GIVEN 24 HOURS NOTICE. ALL COSTS ASSOCIATED WITH GROUND TESTING WILL BE AT THE EXPENSE OF THE CONTRACTOR.



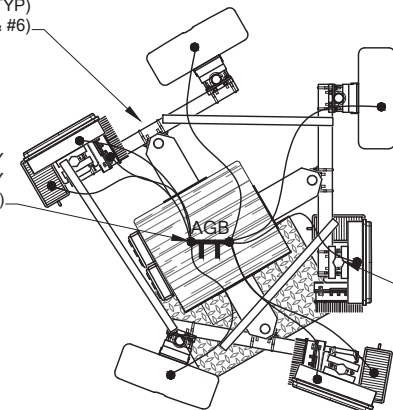
BOND BTS EQUIPMENT TO (E) MGB W/ #2 GREEN STRANDED THWN (TYP) (SEE SHT. E-2, DETAIL 3)

(E) MGB MOUNTED ON VAULT WALL NEAR EQUIPMENT RACKS

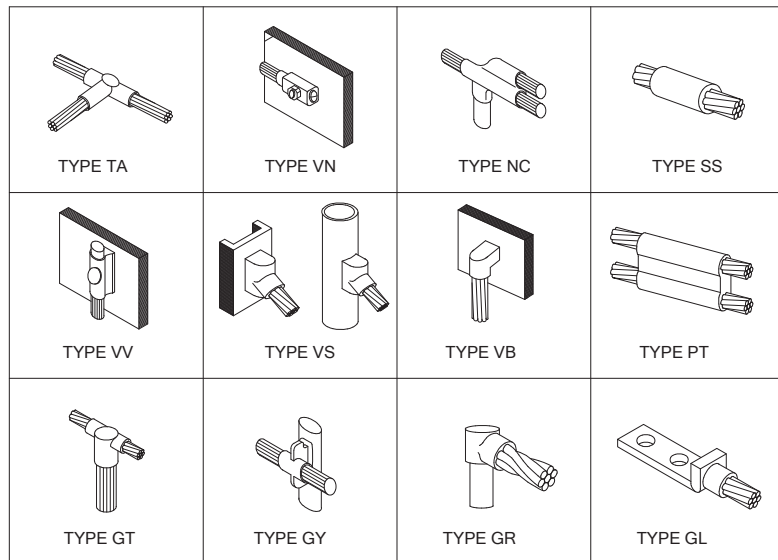
MGB

(P) MECHANICAL CONNECTION (TYP) (SEE GROUNDING NOTES #4 & #6)

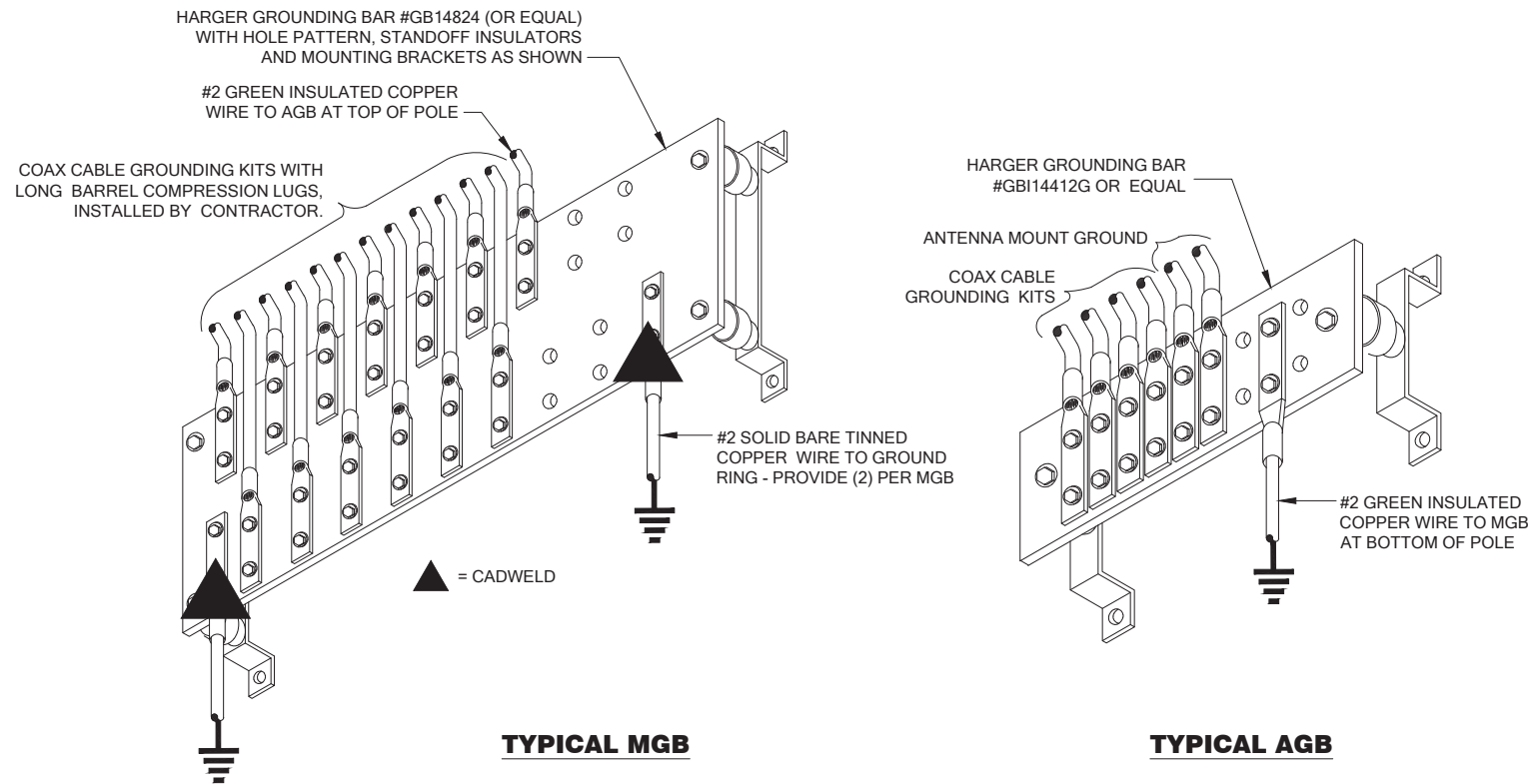
(E) AGB AT TOP OF POLE DIRECTLY BELOW ANTENNA ARRAY (SEE GROUNDING NOTE #5)



BOND FROM (P) ANTENNAS & RADIOS TO (E) AGB



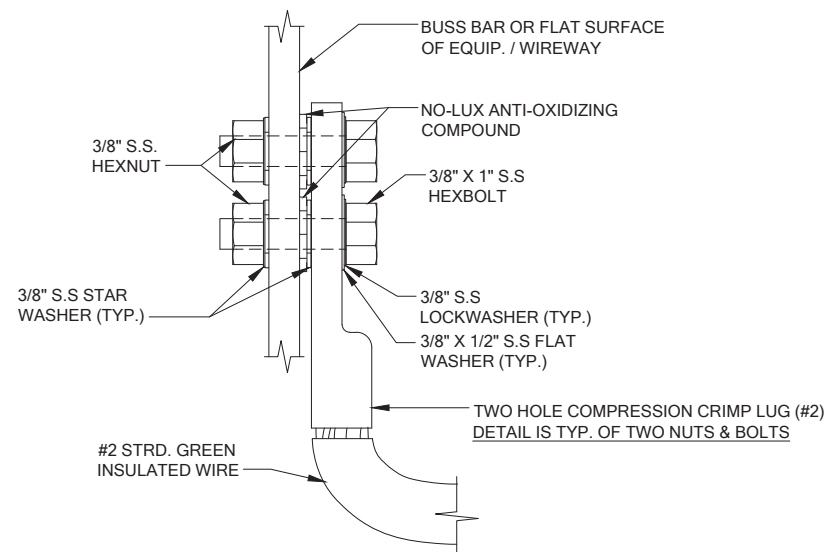
**1 TYPICAL CADWELD CONNECTIONS**  
E-2 N.T.S.



**TYPICAL MGB**

**TYPICAL AGB**

**2 GROUND BAR DETAILS**  
E-2 N.T.S.



- NOTES**
1. TYP. ALL GROUND WIRES FOR ELECT. AND OTHER EQUIPMENT.
  2. THE ENTIRE LUG AND AREA TO BE SPRAYED WITH CLEAR LAQUER OR COLD GALVANIZING SPRAY
  3. GROUND LEADS TO BE CADWELDED TO GROUND RING.

**3 TYPICAL CABINET GROUNDING DETAIL**  
E-2 N.T.S.



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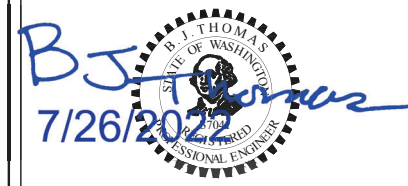
**PLANS PREPARED BY:**

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**JL BJ**

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GROUNDING  
DETAILS**

**DRAWING NUMBER:**

**E-2**