A SEPARATE ELECTRICAL PERMIT IS REQUIRED.

NOTICE
HOURS OF WORK: 7AM TO 8PM MON-FRI
9AM TO 6PM SAT. NO WORK SUNDAYS & HOLIDAYS (PER KZC SEC. 115.25)
Exceptions must be approved in writing by Planning Official

T-Mobile™

City of Kirkland
Reviewed By J Goucher
01/04/2022

T-MOBILE SITE NUMBER: SE03219A
T-MOBILE SITE NAME: TOTEM LAKE MTL 6 - MOTEL 6 OPERATING-SE03XC356
T-MOBILE PROJECT: SPRINT RETAIN
SITE TYPE: ROOFTOP
BUILDING HEIGHT: 30'-5"

SPRINT (LEGACY) ID: SE03XC356
SITE ADDRESS: 12010 120TH PL NE KIRKLAND, WA 98034
COUNTY: KING
JURISDICTION: CITY OF KIRKLAND
LAT: 47° 42' 28.82" N
LONG: 122° 10' 45.88" W

SITE INFORMATION

PROPERTY INFORMATION:

SITE ADDRESS:	12010 120TH PL NE KIRKLAND, WA 98034
COUNTY:	KING
LATITUDE (NAD83):	47° 42' 28.82" N (47.708006°)
LONGITUDE (NAD83):	122° 10' 45.88" W (-122.179411°)
GROUND ELEVATION (NAVD88):	±±164.2' AMSL (PER 1A DATED 05/21/21)
JURISDICTION:	CITY OF KIRKLAND
APN:	282605-9078
ZONING:	TL 4A
OCCUPANCY CLASSIFICATION:	TEMPORARY LODGING
LEGAL DESCRIPTION:	SEE SHEET A-1

CONSTRUCTION INFORMATION:

AREA OF CONSTRUCTION:	±150 SQ. FT.
TYPE OF CONSTRUCTION:	V-B
PROPOSED USE:	UNMANNED TELECOMMUNICATIONS FACILITY
HANDICAP REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

PROPERTY OWNER:

COMPANY:	OLD WEST 12010 LLC
ADDRESS:	15015 MAIN ST. #203
CITY, STATE, ZIP:	BELLEVUE, WA 98007

APPLICANT'S REPRESENTATIVE:

COMPANY:	SMARTLINK, LLC
ADDRESS:	11232 120th AVE. NE, SUITE 204
CITY, STATE, ZIP:	KIRKLAND, WA 98033
CONTACT:	KRISTINA LAMPERT
PHONE:	(425) 750-7182
E-MAIL:	kristina.lampert@smartlinkgroup.com

PROJECT TEAM

ARCHITECTURAL & ENGINEERING:

COMPANY:	INFINIGY ENGINEERING, PLLC
CONTACT:	PAUL DANNEBERG
PHONE:	(206) 375-3798
E-MAIL:	pdanneberg@infinigy.com

SITE ACQUISITION:

COMPANY:	SMARTLINK, LLC
ADDRESS:	11232 120th AVE. NE, SUITE 204
CITY, STATE, ZIP:	KIRKLAND, WA 98033
CONTACT:	KRISTINA LAMPERT
PHONE:	(425) 750-7182
E-MAIL:	kristina.lampert@smartlinkgroup.com

ZONING:

COMPANY:	SMARTLINK, LLC
ADDRESS:	11232 120th AVE. NE, SUITE 204
CITY, STATE, ZIP:	KIRKLAND, WA 98033
CONTACT:	BRYSON BURGHARDT
PHONE:	(360) 581-8189
E-MAIL:	bryson.burghardt@smartlinkgroup.com

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T-3	SPECIFICATIONS & NOTES
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A-1.1	ENLARGED ROOF PLAN
A-2	ENLARGED EQUIPMENT PLANS
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A-4	ANTENNA PLAN & RF SCHEDULE
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A-5	EQUIPMENT DETAILS
A-6	EQUIPMENT DETAILS
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S-2	ANTENNA FRAME DESIGN
S-3	ANTENNA FRAME DESIGN
S-4	ANTENNA FRAME DESIGN

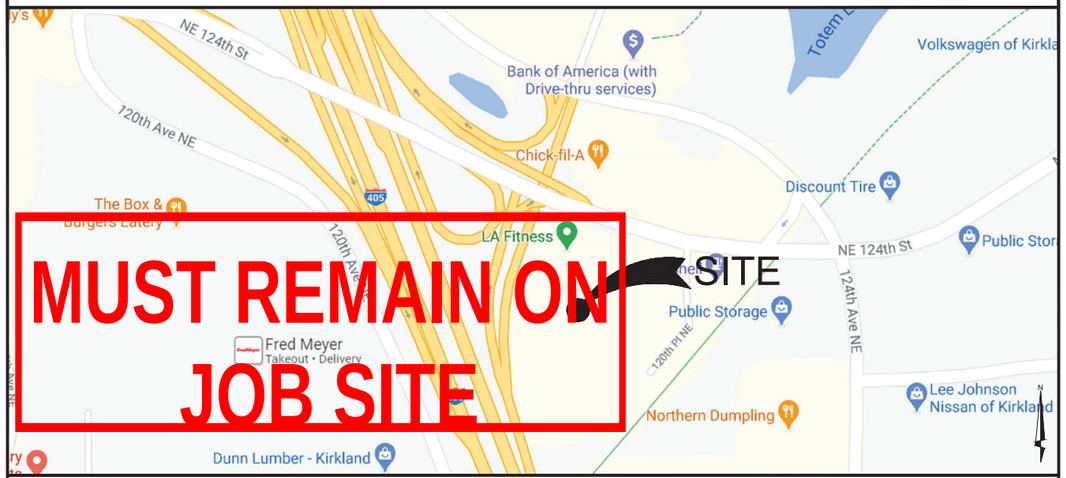
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

APPROVALS

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

APPROVAL:		SIGNATURE:	DATE:
PROJECT MANAGER			
SITE ACQUISITION			
CONSTRUCTION MANAGER			
SITE OWNER			
T-MOBILE	RF ENGINEER		
	DEVELOPMENT MANAGER		
	CONSTRUCTION MANAGER		
	OPS MANAGER		
	REGULATORY REVIEW		
	PROJECT MANAGER		

VICINITY MAP



DRIVING DIRECTIONS FROM T-MOBILE LOCAL OFFICE (19807 NORTH CREEK PKWY N, BOTHELL, WA 98011):
GET ON 1-405 S FROM N CREEK PKWY AND NE 195TH ST, USE THE LEFT 2 LANES TO TURN LEFT ONTO THE INTERSTATE 405 S RAMP TO RENTON, FOLLOW I-405 S TO NE 124TH ST IN KIRKLAND. TAKE EXIT 20 FROM I-405 S, MERGE WITH I-405 S, TAKE EXIT 20 FOR NE 124TH ST, TURN RIGHT ONTO 120TH PL NE, TURN RIGHT, ARRIVE AT : 12010 120TH PL NE, KIRKLAND, WA 98034 WILL BE ON THE LEFT.

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT 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 THESE CODES.

1. 2018 INTERNATIONAL BUILDING CODE - WAC 51-50
2. 2018 INTERNATIONAL MECHANICAL CODE - WAC 51-52
3. 2018 INTERNATIONAL FIRE CODE - WAC 51-54A
4. 2018 UNIFORM PLUMBING CODE - WAC 51-56
5. 2017 NATIONAL ELECTRICAL CODE
6. 2018 INTERNATIONAL FUEL GAS CODE
7. 2018 WASHINGTON STATE ENERGY CODE - WAC 51-11C
8. TIA-EIA-222-G OR LATEST EDITION
9. ASCE 7-10
10. NFPA 780 - LIGHTNING PROTECTION CODE
11. ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES, MOST RECENT EDITION
12. LOCAL AMENDMENTS TO THE ABOVE, WHERE APPLICABLE
13. CITY/COUNTY ORDINANCES
14. LIFE SAFETY CODE NFPA-101

811 Know what's below. Call before you dig. www.call811.com

PROJECT DESCRIPTION

T-MOBILE PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY AS FOLLOWS:

ANTENNA SCOPE OF WORK:
- REMOVE EXISTING ANTENNA FRAME
- REMOVE (6) EXISTING PANEL ANTENNAS
- REMOVE (9) EXISTING RRU'S
- INSTALL UPGRADED ANTENNA FRAME
- INSTALL (3) FFVV-65C-R3-V1 PANEL ANTENNAS
- INSTALL (3) AEHC MIMO ANTENNAS
- INSTALL (3) AHLOA & (3) AHFIG RRU'S
- INSTALL (2) HCS 2.0 TOWER TOP PENDANT
- INSTALL (2) HCS 2.0 HYBRID CABLES AND (9) HCS 2.0 JUMPERS

EQUIPMENT SCOPE OF WORK:
- UPGRADE ELECTRIC METER FROM 100A TO 200A
- REMOVE (3) EXISTING EQUIPMENT CABINETS
- REMOVE (3) 800 MHZ RRU'S & H-FRAME
- REMOVE CIENA AND REPLACE WITH PROPOSED TELCO BOX
- INSTALL (1) HPL3 SSC CABINET & (1) LB3 BATTERY CABINET
- INSTALL (2) HCS 2.0 JUNCTION BOXES
- INSTALL (2) ASIB, (2) ASIK, (1) FSMF, (3) ABIA, (6) ABIL, (3) ABIC & (2) AMIA WITHIN HPL3 SSC CABINET
- INSTALL SOUND BARRIER WALL

DESIGN IS BASED ON:
RFDS VERSION 1, DATED 05/13/2021 (CONFIG. 56790EZ_SR_R_T,56790EZ_SR_R)
THESE PLANS HAVE BEEN DEVELOPED FOR THE CONSTRUCTION OF AN UNMANNED TELECOMMUNICATIONS FACILITY OWNED OR LEASED BY T-MOBILE IN ACCORDANCE WITH THE PROVIDED SCOPE OF WORK, INCORPORATED IN THE PLANS BY INFINIGY. THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED, & ACCOMPANIED BY A PASSING STRUCTURAL STABILITY ANALYSIS FOR THE STRUCTURE AND MOUNT PREPARED BY A LICENSED PROFESSIONAL ENGINEER.

T-Mobile
19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

smartlink
11232 120TH AVE NE, SUITE 204
KIRKLAND, WA 98033

INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless
2500 W. HIGGINS RD. STE. 500
HOFFMAN ESTATES, IL 60169
JOB NUMBER 4106-C0004-C

T-MOBILE SITE:
SE03219A
TOTEM LAKE MTL 6-MOTEL 6
OPERATING-SE03XC356

12010 120TH PL NE
KIRKLAND, WA 98034
KING COUNTY

30'-5" ROOFTOP

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/16/21	EPR	PRELIMINARY REVIEW	PD
B	05/18/21	EPR	REVISED PER COMMENTS	PD
0	08/10/21	CAP	100% CONSTRUCTION	PD
1	08/12/21	CAP	100% CONSTRUCTION	PD

CHRISTOPHER J WARREN
STATE OF WASHINGTON
40190
REGISTERED
PROFESSIONAL ENGINEER
8/18/21

SHEET TITLE:
TITLE SHEET

SHEET NUMBER: T-1
REVISION: 1

A. GENERAL

1. ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE BY T-MOBILE.

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 T-MOBILE.

5. ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE T-MOBILE 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 T-MOBILE 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

2 PAINT SPECIFICATIONS

1. THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF 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 T-MOBILE 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 T-MOBILE. 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 T-MOBILE 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 T-MOBILE 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 T-MOBILE 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 T-MOBILE 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 T-MOBILE.

12. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION AND DIRECT ALL 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 T-MOBILE, 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 T-MOBILE 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 T-MOBILE 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 T-MOBILE.

21. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER, T-MOBILE, 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 AGENCY. ONE SET OF REDLINED DRAWINGS SHALL BE PROVIDED TO THE T-MOBILE CONSTRUCTION MANAGER.

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, T-MOBILE 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 T-MOBILE.

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.

1 GENERAL SPECIFICATIONS

T-Mobile
19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

smartlink
11232 120TH AVE NE, SUITE 204
KIRKLAND, WA 98033

INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless
2500 W. HIGGINS RD. STE. 500
HOFFMAN ESTATES, IL 60169
JOB NUMBER 4106-C0004-C

T-MOBILE SITE:
SE03219A
TOTEM LAKE MTL 6-MOTEL 6
OPERATING-SE03XC356

12010 120TH PL NE
KIRKLAND, WA 98034
KING COUNTY

30'-5" ROOFTOP

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0	08/10/21	CAP	100% CONSTRUCTION	PD
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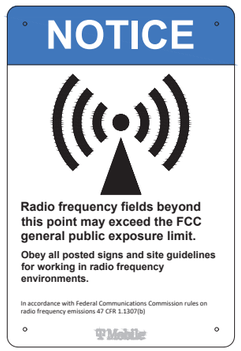
CHRISTOPHER J WARREN
STATE OF WASHINGTON
40190
REGISTERED
PROFESSIONAL ENGINEER
8/18/21

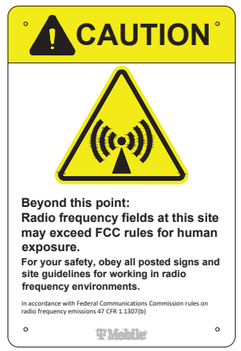
SHEET TITLE:
SPECIFICATIONS & NOTES

SHEET NUMBER: T-2

REVISION: 1



PART NO. TMO142862



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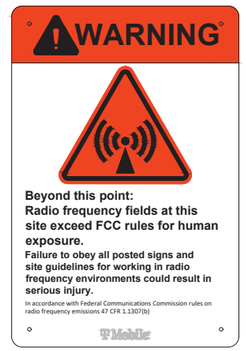
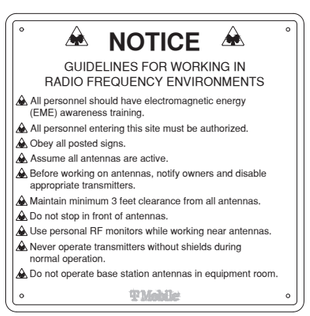


PART NO. TMO145771

RF SIGNAGE



PART NO. TMO130956

SITE IDENTIFICATION SIGNAGE

2 SIGNAGE SPECIFICATIONS

1 STRUCTURAL SPECIFICATIONS

A. GENERAL

1. PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE.
   A. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
   B. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
   C. MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.
2. OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
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. 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. SAFETY: THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
6. WATERPROOFING: WATERPROOFING AND DRAINAGE DETAILS OR SPECIFICATIONS SHOWN IN THESE DRAWINGS ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO NOTIFY THE T-MOBILE CONSTRUCTION MANAGER AND THE ARCHITECT IF ANY INADEQUATE OR IMPROPER CONDITIONS.

B. STEEL

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.
2. ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A-325
3. STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53.
4. STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.
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.
6. THE FOLLOWING WELDING EQUIPMENT MUST BE USED:
   A. 250 AMP WELDERS.
   B. ROD OVENS.
   C. GRINDERS.
7. NO BUZZ BOXES SHALL BE USED.
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.
9. ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.
10. STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.
11. WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS NOTED "FULL STRESS" AT END OF WELD SYMBOL.

C. CONCRETE

1. STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:

LOCATION	STRENGTH ADMIXTURE	WT.	SLUMP
SLAB&FOOTING	3000psi NONE	150pcf	4"

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.
3. REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PREFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:

   #4 & SMALLER BARS.....GRADE 40
   #5 & LARGER BARS.....GRADE 60
   ALL BARS AT CAISSON FOOTING...GRADE 60
4. FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150. PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
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:

   A. FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL
   B. PIER/CAISSON FOOTING: 1" GRAVEL.
6. SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.
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.
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.
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.
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:
    A. CONCRETE IN CONTACT WITH EARTH, UNFORMED 3"
    B. CONCRETE IN CONTACT WITH EARTH, FORMED 2"
    C. WALL, EXTERIOR FACE 1-1/2"
    D. WALL, INTERIOR FACE 1"
    E. STRUCTURAL SLABS 3/4"
    F. JOISTS 3/4"
    G. BEAMS, GIRDERS & COLUMNS 1-1/2"
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 EMBBEDED 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.

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HOFFMAN ESTATES, IL 60169
JOB NUMBER 4106-C0004-C

T-MOBILE SITE:
SE03219A
TOTEM LAKE MTL 6-MOTEL 6
OPERATING-SE03XC356

12010 120TH PL NE
KIRKLAND, WA 98034
KING COUNTY

30'-5" ROOFTOP

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/16/21	EPR	PRELIMINARY REVIEW	PD
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SHEET TITLE:
SPECIFICATIONS & NOTES

SHEET NUMBER: T-3
REVISION: 1

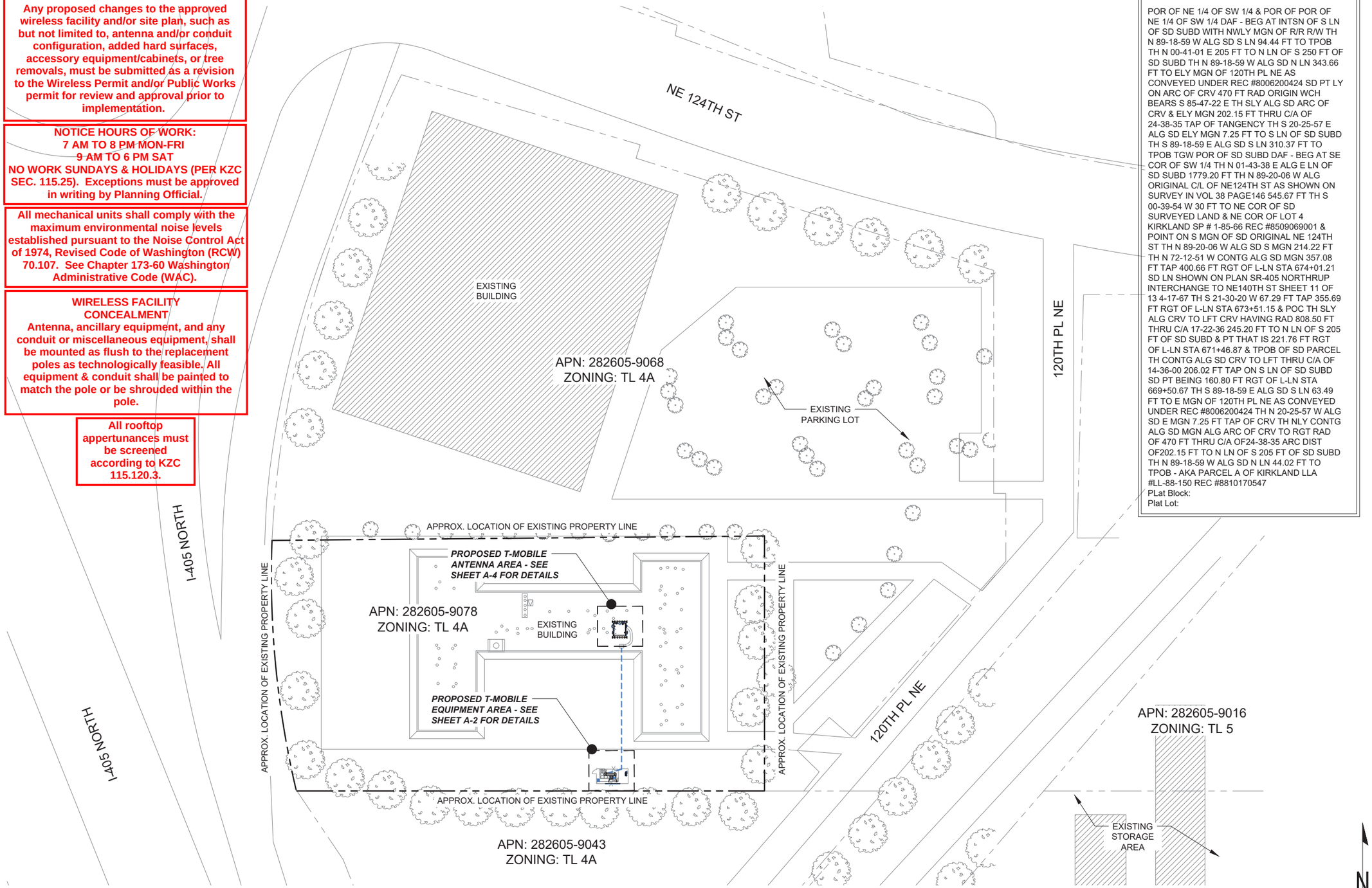
PCD APPROVED WIRELESS FACILITY AND/OR SITE PLAN
Any proposed changes to the approved wireless facility and/or site plan, such as but not limited to, antenna and/or conduit configuration, added hard surfaces, accessory equipment/cabinets, or tree removals, must be submitted as a revision to the Wireless Permit and/or Public Works permit for review and approval prior to implementation.

NOTICE HOURS OF WORK:
7 AM TO 8 PM MON-FRI
9 AM TO 6 PM SAT
NO WORK SUNDAYS & HOLIDAYS (PER KZC SEC. 115.25). Exceptions must be approved in writing by Planning Official.

All mechanical units shall comply with the maximum environmental noise levels established pursuant to the Noise Control Act of 1974, Revised Code of Washington (RCW) 70.107. See Chapter 173-60 Washington Administrative Code (WAC).

WIRELESS FACILITY CONCEALMENT
Antenna, ancillary equipment, and any conduit or miscellaneous equipment, shall be mounted as flush to the replacement poles as technologically feasible. All equipment & conduit shall be painted to match the pole or be shrouded within the pole.

All rooftop appertunances must be screened according to KZC 115.120.3.



LEGAL DESCRIPTION:

POR OF NE 1/4 OF SW 1/4 & POR OF POR OF NE 1/4 OF SW 1/4 DAF - BEG AT INTSN OF S LN OF SD SUBD WITH NWLY MGN OF R/R R/W TH N 89-18-59 W ALG SD S LN 94.44 FT TO TPOB TH N 00-41-01 E 205 FT TO N LN OF S 250 FT OF SD SUBD TH N 89-18-59 W ALG SD N LN 343.66 FT TO ELY MGN OF 120TH PL NE AS CONVEYED UNDER REC #8006200424 SD PT LY ON ARC OF CRV 470 FT RAD ORIGIN WCH BEARS S 85-47-22 E TH SLY ALG SD ARC OF CRV & ELY MGN 202.15 FT THRU C/A OF 24-38-35 TAP OF TANGENCY TH S 20-25-57 E ALG SD ELY MGN 7.25 FT TO S LN OF SD SUBD TH S 89-18-59 E ALG SD S LN 310.37 FT TO TPOB TGW POR OF SD SUBD DAF - BEG AT SE COR OF SW 1/4 TH N 01-43-38 E ALG E LN OF SD SUBD 1779.20 FT TH N 89-20-06 W ALG ORIGINAL C/L OF NE124TH ST AS SHOWN ON SURVEY IN VOL 38 PAGE146 545.67 FT TH S 00-39-54 W 30 FT TO NE COR OF SD SURVEYED LAND & NE COR OF LOT 4 KIRKLAND SP # 1-85-66 REC #8509069001 & POINT ON S MGN OF SD ORIGINAL NE 124TH ST TH N 89-20-06 W ALG SD S MGN 214.22 FT TH N 72-12-51 W CONTG ALG SD MGN 357.08 FT TAP 400.66 FT RGT OF L-LN STA 674+01.21 SD LN SHOWN ON PLAN SR-405 NORTHRUP INTERCHANGE TO NE140TH ST SHEET 11 OF 13 4-17-67 TH S 21-30-20 W 67.29 FT TAP 355.69 FT RGT OF L-LN STA 673+51.15 & POC TH SLY ALG CRV TO LFT CRV HAVING RAD 808.50 FT THRU C/A 17-22-36 245.20 FT TO N LN OF S 205 FT OF SD SUBD & PT THAT IS 221.76 FT RGT OF L-LN STA 671+46.87 & TPOB OF SD PARCEL TH CONTG ALG SD CRV TO LFT THRU C/A OF 14-36-00 206.02 FT TAP ON S LN OF SD SUBD SD PT BEING 160.80 FT RGT OF L-LN STA 669+50.67 TH S 89-18-59 E ALG SD S LN 63.49 FT TO E MGN OF 120TH PL NE AS CONVEYED UNDER REC #8006200424 TH N 20-25-57 W ALG SD E MGN 7.25 FT TAP OF CRV TH NLY CONTG ALG SD MGN ALG ARC OF CRV TO RGT RAD OF 470 FT THRU C/A OF24-38-35 ARC DIST OF202.15 FT TO N LN OF S 205 FT OF SD SUBD TH N 89-18-59 W ALG SD N LN 44.02 FT TO TPOB - AKA PARCEL A OF KIRKLAND LLA #LL-88-150 REC #8810170547
PLat Block:
Plat Lot:

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

1 OVERALL SITE PLAN

22"x34" SCALE: 1" = 40'-0"
11"x17" SCALE: 1" = 80'-0"
40' 20' 0' 40'

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KING COUNTY

30'-5" ROOFTOP

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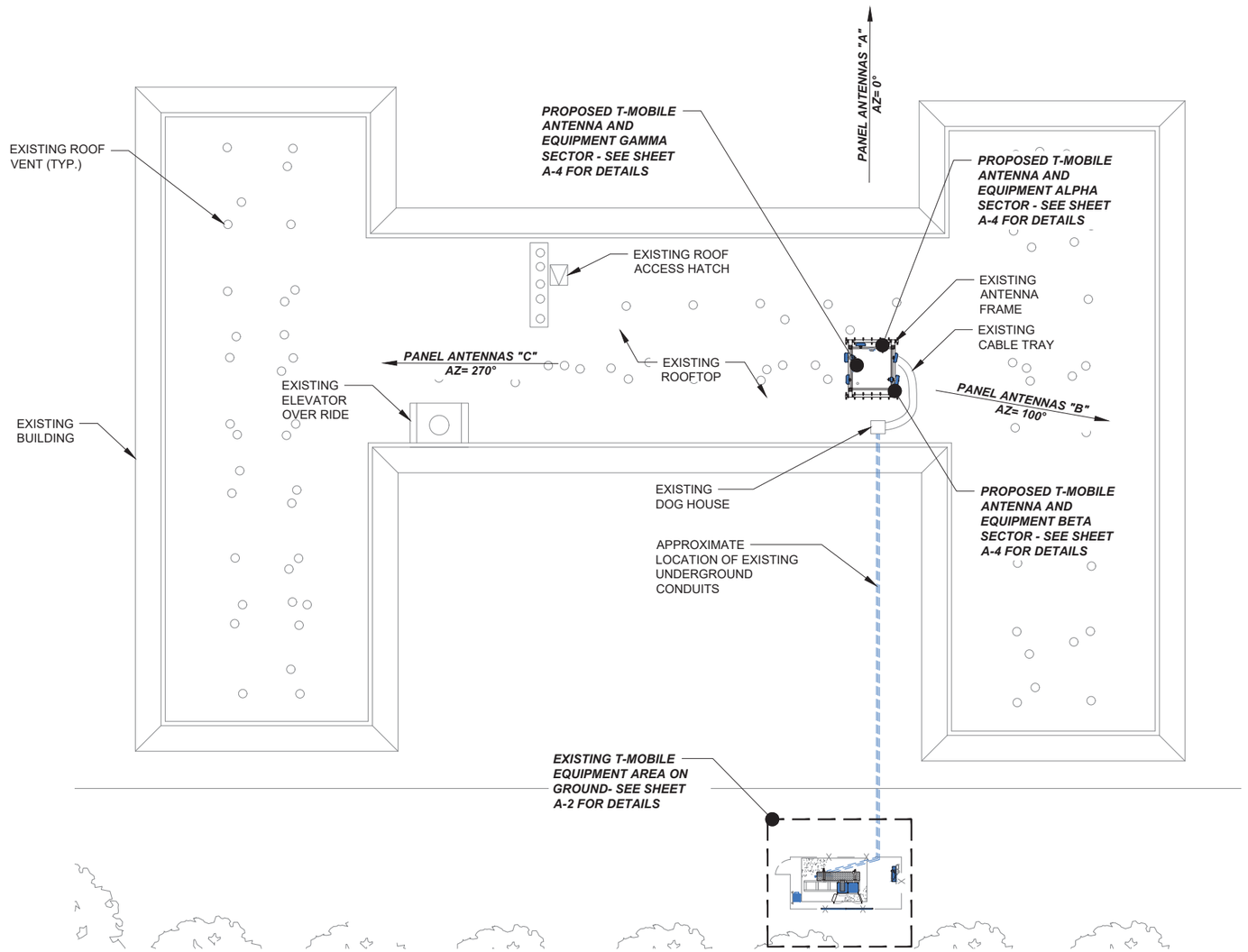
CHRISTOPHER J WARREN
STATE OF WASHINGTON
8/18/21
40190
REGISTERED
PROFESSIONAL ENGINEER

SHEET TITLE:
OVERALL
SITE PLAN

SHEET NUMBER: A-1
REVISION: 1



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N

1 ENLARGED ROOF PLAN

22"x34" SCALE: 1/16" = 1'-0"
11"x17" SCALE: 1/32" = 1'-0"
16' 12' 8' 4' 0' 16'

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30'-5" ROOFTOP

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CHRISTOPHER J WARREN
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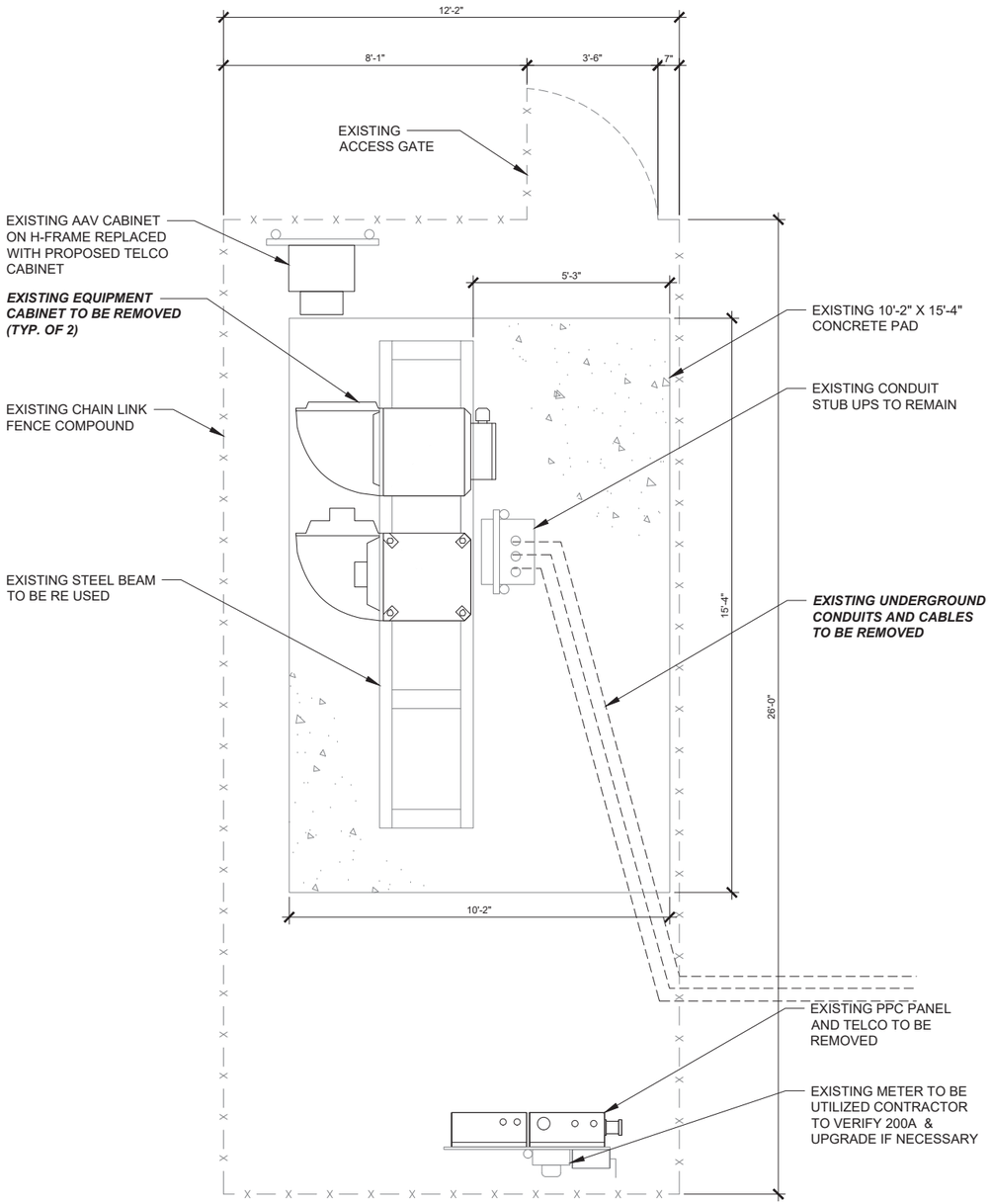
8/18/21

SHEET TITLE:
ENLARGED
ROOF PLAN

SHEET NUMBER: A-1.1
REVISION: 1

NOTE:

NO RF SIGNAGE ON SITE



2 EXISTING EQUIPMENT PLAN

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

RF EQUIPMENT SCOPE OF WORK-SEE RFDS

- ***INSTALL (2) AMIA, (2) ASIB, (3) ABIA, (2) ASIK, (4) ABIL, (3) ABIC & (1) FSMF INSIDE HPL3 SSC CABINET***

NOTE:
ALL ABOVE GROUND EXPOSED CONDUITS TO BE COVERED WITH YELLOW CAUTION TAPE

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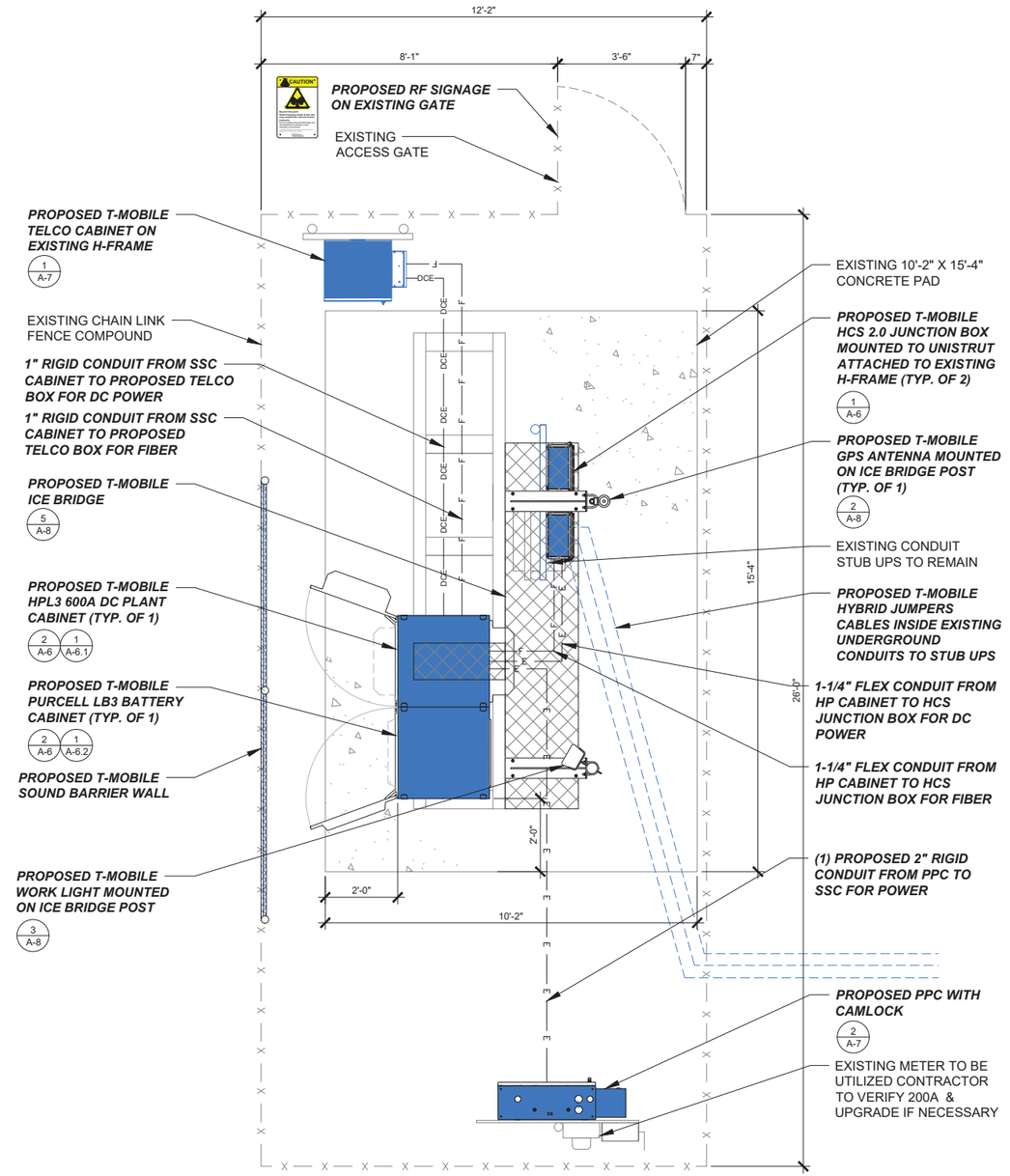

1 PROPOSED EQUIPMENT PLAN

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

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30'-5" ROOFTOP

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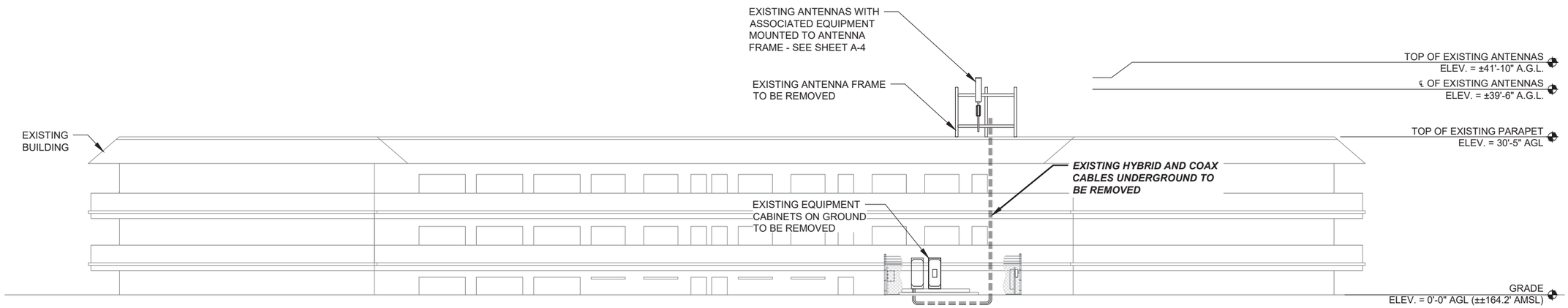
SHEET TITLE:
EQUIPMENT PLANS

SHEET NUMBER: A-2

REVISION: 1

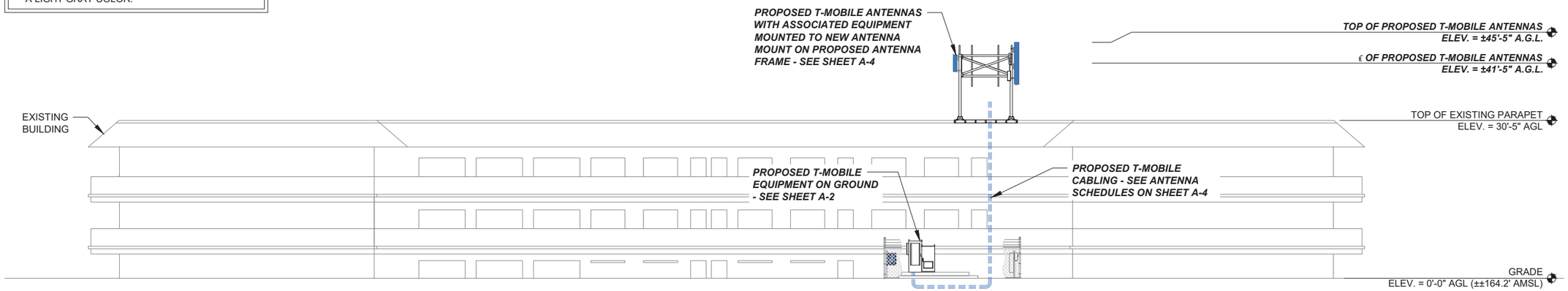


2 EXISTING SOUTH ELEVATION

22"x34" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"
8' 4' 0' 8'

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.
- ALL NEW ANTENNAS, SUPPORTING EQUIPMENT AND ANTENNA FRAMES SHALL MATCH THE COLOR OF THE EXISTING CONDITIONS WHICH IS A LIGHT GRAY COLOR.



2 PROPOSED SOUTH ELEVATION

22"x34" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"
8' 4' 0' 8'

T-Mobile
19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

smartlink
11232 120TH AVE NE, SUITE 204
KIRKLAND, WA 98033

INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless
2500 W. HIGGINS RD. STE. 500
HOFFMAN ESTATES, IL 60169
JOB NUMBER 4106-C0004-C

T-MOBILE SITE:
SE03219A
TOTEM LAKE MTL 6-MOTEL 6
OPERATING-SE03XC356

12010 120TH PL NE
KIRKLAND, WA 98034
KING COUNTY

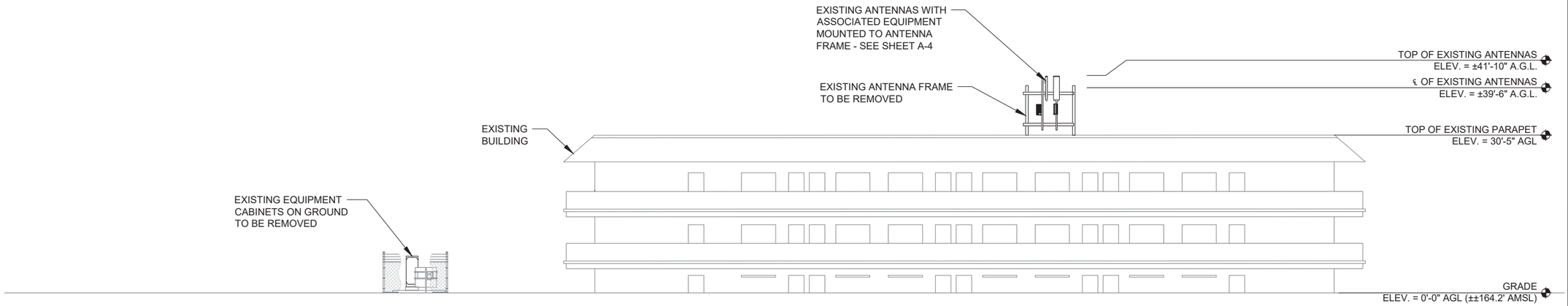
30'-5" ROOFTOP

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/16/21	EPR	PRELIMINARY REVIEW	PD
B	05/18/21	EPR	REVISED PER COMMENTS	PD
0	08/10/21	CAP	100% CONSTRUCTION	PD
1	08/12/21	CAP	100% CONSTRUCTION	PD

SHEET TITLE:
SOUTH ELEVATIONS

SHEET NUMBER: A-3
REVISION: 1

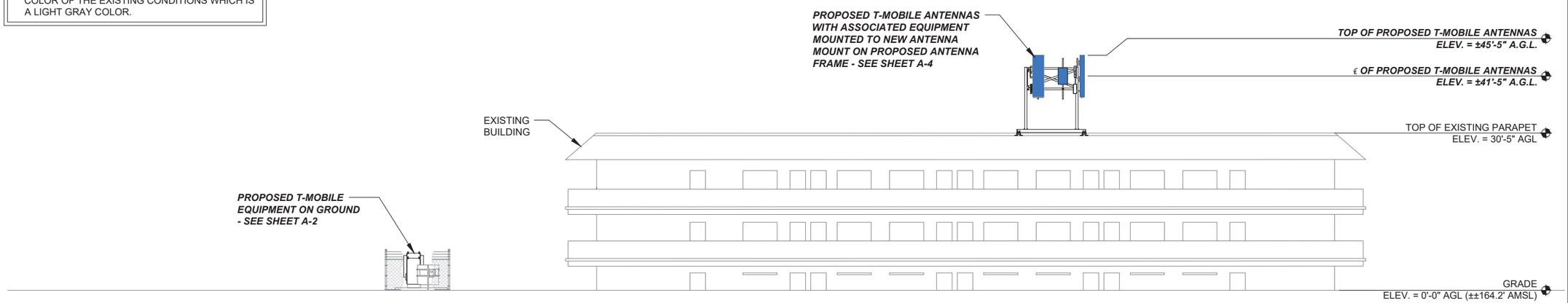


2 EXISTING EAST ELEVATION

22"x34" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"
8' 4' 0' 8'

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.
- ALL NEW ANTENNAS, SUPPORTING EQUIPMENT AND ANTENNA FRAMES SHALL MATCH THE COLOR OF THE EXISTING CONDITIONS WHICH IS A LIGHT GRAY COLOR.



2 PROPOSED EAST ELEVATION

22"x34" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"
8' 4' 0' 8'

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OPERATING-SE03XC356

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KING COUNTY

30'-5" ROOFTOP

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1	08/12/21	CAP	100% CONSTRUCTION	PD

SHEET TITLE:
EAST
ELEVATIONS

SHEET NUMBER: A-3.1
REVISION: 1

EXISTING ANTENNA / CABLE SCHEDULE

MOUNT SECTOR	MOUNT POSITION	RFDS POSITION	ANTENNA					RRH		TMA/COMBINER/COVP		HYBRID CABLE (HCS)			COAX CABLE		
			MODEL	QTY.	SIZE	AZIMUTH	RAD CENTER	MODEL	QTY.	MODEL	QTY.	TYPE	QTY.	LENGTH	TYPE	QTY.	LENGTH
ALPHA	A1	A1	APXVRR13-C-A20	1	54.8"	20°	39'-6"	1900MHz	1	--	--	EXISTING	3	EXISTING	--	--	--
	A2	A2	--	--	--	--	--	--	--	--	--						
	A3	A3	--	--	--	--	--	--	--	--	--						
	--	--	--	--	--	--	--	--	--	--	--						
BETA	B1	B1	APXVRR13-C-A20	1	54.8"	180°	39'-6"	1900MHz	1	--	--						
	B2	B2	--	--	--	--	--	--	--	--	--						
	B3	B3	--	--	--		--	--	--	--	--						
	--	--	--	--	--	--	--	--	--	--	--						
GAMMA	C1	C1	APXVRR13-C-A20	1	54.8"	300°	39'-6"	1900MHz	1	--	--						
	C2	C2	--	--	--	--	--	--	--	--	--						
	C3	C3	--	--	--	--	--	--	--	--	--						
	--	--	--	--	--	--	--	--	--	--	--						

PROPOSED ANTENNA / CABLE SCHEDULE

MOUNT SECTOR	MOUNT POSITION	RFDS POSITION	ANTENNA					RRH		TMA/COMBINER/COVP		HYBRID CABLE			DC JUMPER		
			MODEL	QTY.	SIZE	AZIMUTH	RAD CENTER	MODEL	QTY.	MODEL	QTY.	TYPE	QTY.	LENGTH	TYPE	QTY.	LENGTH
ALPHA	A1	A1	***FFVV-65C-R3-V1***	***1***	***95.9"***	***0°***	***41'-5"***	***AHLOA, AHFIG***	***1/1***	***HCS 2.0 JUNCTION BOXES***	***2***	***HCS 2.0 HYBRID CABLES***	***2***	***±175'-0"***	***HCS 2.0 JUMPERS***	***9***	***±15'-0"***
	A2	--	***--***	***--***	***--***	***--***	***--***	***--***	***--***								
	A3	A2	***AEHC***	***1***	***38.2"***	***0°***	***41'-5"***	***--***	***--***								
	--	--	***--***	***--***	***--***	***--***	***--***	***--***	***--***								
BETA	B1	B1	***FFVV-65C-R3-V1***	***1***	***95.9"***	***100°***	***41'-5"***	***AHLOA, AHFIG***	***1/1***								
	B2	--	***--***	***--***	***--***	***--***	***--***	***--***	***--***								
	B3	B2	***AEHC***	***1***	***38.2"***	***100°***	***41'-5"***	***--***	***--***								
	--	--	***--***	***--***	***--***	***--***	***--***	***--***	***--***								
GAMMA	C1	C1	***FFVV-65C-R3-V1***	***1***	***95.9"***	***270°***	***41'-5"***	***AHLOA, AHFIG***	***1/1***								
	C2	--	***--***	***--***	***--***	***--***	***--***	***--***	***--***								
	C3	C2	***AEHC***	***1***	***38.2"***	***270°***	***41'-5"***	***--***	***--***								
	--	--	***--***	***--***	***--***	***--***	***--***	***--***	***--***								

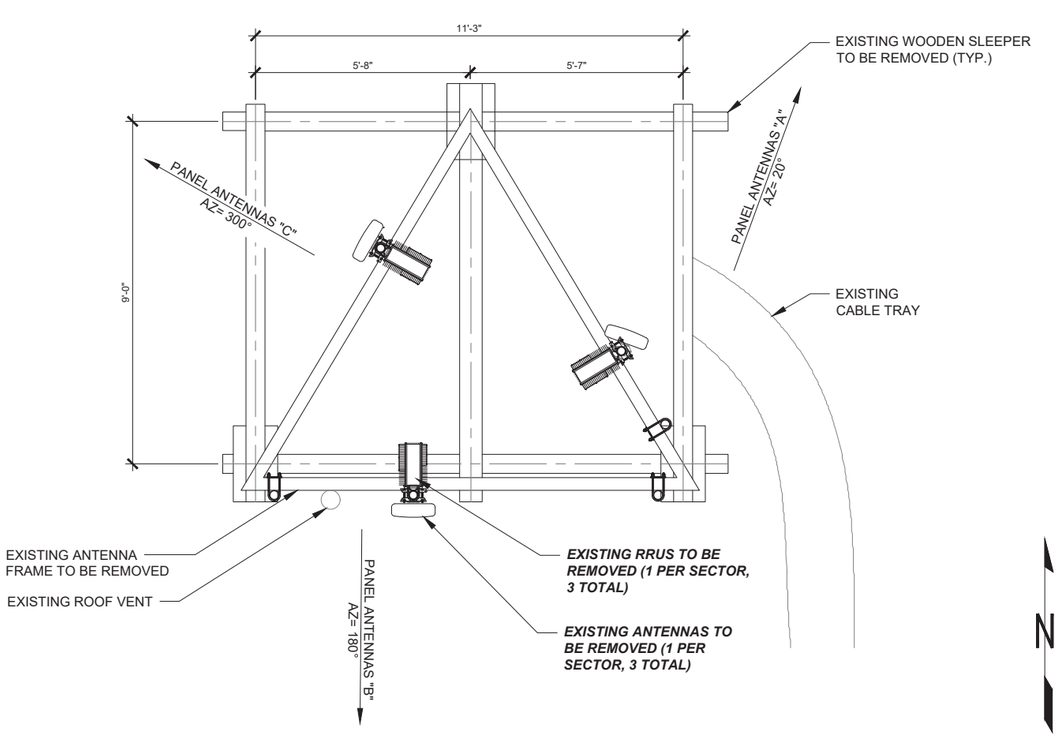
NOTE: MOUNT SECTORS ARE CLOCKWISE. MOUNT POSITIONS ARE CLOCKWISE (LEFT TO RIGHT AS VIEWED FROM THE BACK OF THE ANTENNAS, TO ALIGN WITH TOWER OWNER ANTENNA POSITION FORMAT), INCLUDING EMPTY ANTENNA MOUNT PIPES.
RFDS POSITIONS ARE THE ANTENNA POSITIONS LISTED IN THE RFDS, AND MAY DIFFER FROM THE ORDER IN WHICH EXISTING ANTENNAS ARE INSTALLED. THE METHOD FOR WHAT ORDER ANTENNAS ARE LISTED IN THE RFDS VARIES DEPENDING ON THE MARKET.

NOTES

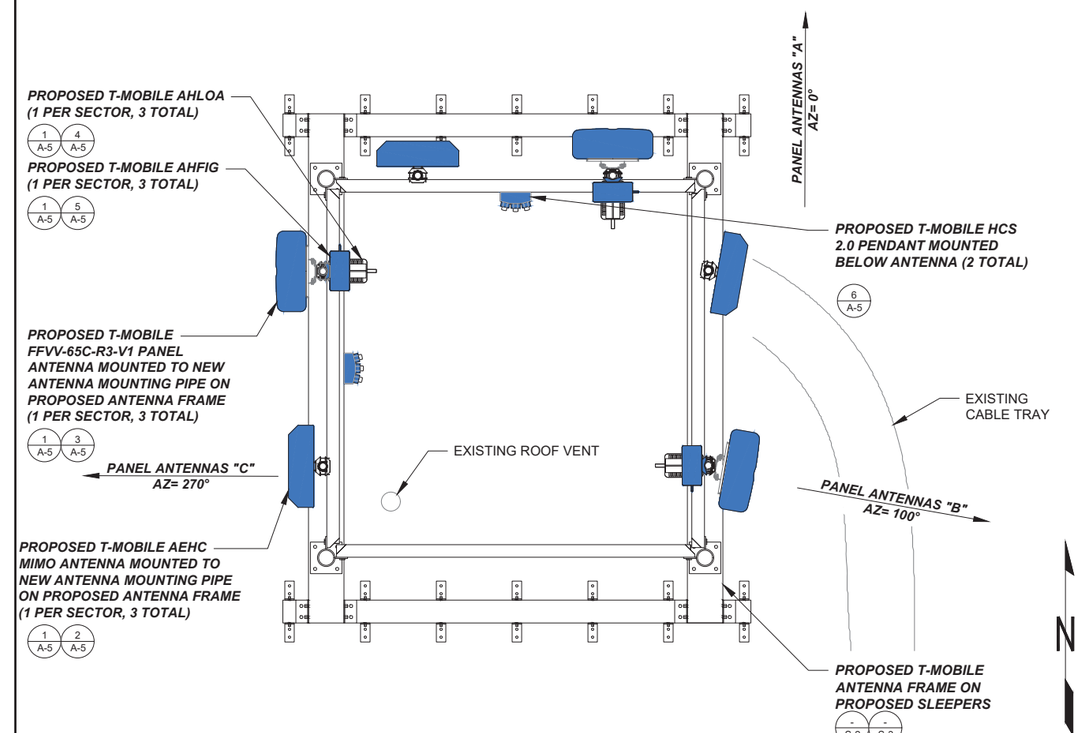
1. CONTRACTOR IS TO REFER TO T-MOBILE'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
2. CABLE LENGTH IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY CABLE LENGTHS PRIOR TO ORDERING, FABRICATION, OR INSTALLATION OF CABLES.
3. PROPOSED EQUIPMENT IS INDICATED BY ***BOLD*** TEXT.
4. ALL NEW ANTENNAS, SUPPORTING EQUIPMENT AND ANTENNA FRAMES SHALL MATCH THE COLOR OF THE EXISTING CONDITIONS WHICH IS A LIGHT GRAY COLOR.

3 RF SCHEDULE

NOT TO SCALE



2 EXISTING ANTENNA PLAN — NOT TO SCALE



1 PROPOSED ANTENNA PLAN — NOT TO SCALE

T-Mobile
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smartlink
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KIRKLAND, WA 98033

INFINIGY
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the solutions are endless
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HOFFMAN ESTATES, IL 60169
JOB NUMBER 4106-C0004-C

T-MOBILE SITE:
SE03219A
TOTEM LAKE MTL 6-MOTEL 6
OPERATING-SE03XC356

12010 120TH PL NE
KIRKLAND, WA 98034
KING COUNTY

30'-5" ROOFTOP

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1	08/12/21	CAP	100% CONSTRUCTION	PD

SHEET TITLE:
ANTENNA PLAN
& RF SCHEDULE

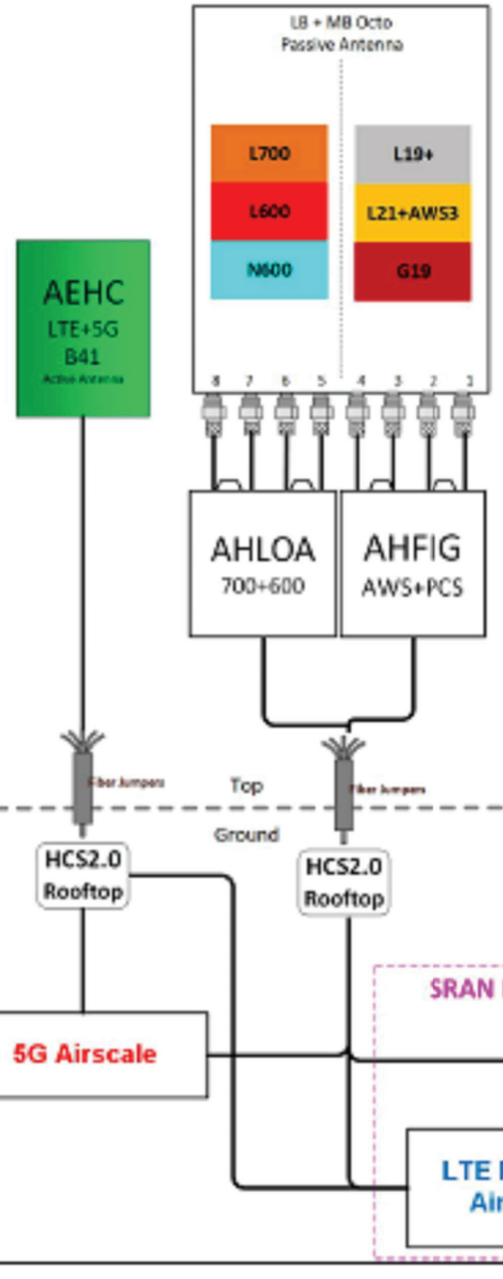
SHEET NUMBER: A-4

REVISION: 1

Configuration 56790EZ_SR_R

* For 5G and LTE Airscale BB dimensioning refer to Fiber Port matrices.

(Alpha, Beta & Gamma)



FDD - Lowband
B12 (L700) – 5 MHz
B71 (L600) –10 MHz
B71 (N600) – 10 MHz

FDD - Midband
B4 (L2100) – 20 MHz
B66 (AWS3) – 5MHz
B2 (L1900) – 20 MHz
B25 (L1900) – 20 MHz
SRAN – GSM PCS

TDD - Band 41
L2.5(2.5GHz)– 60 MHz
N41(2.5GHz) – 100MHz
+2nd carrier (<=80MHz)

2 NOT USED — NOT TO SCALE

1 PROPOSED RF PLUMBING DIAGRAM — NOT TO SCALE

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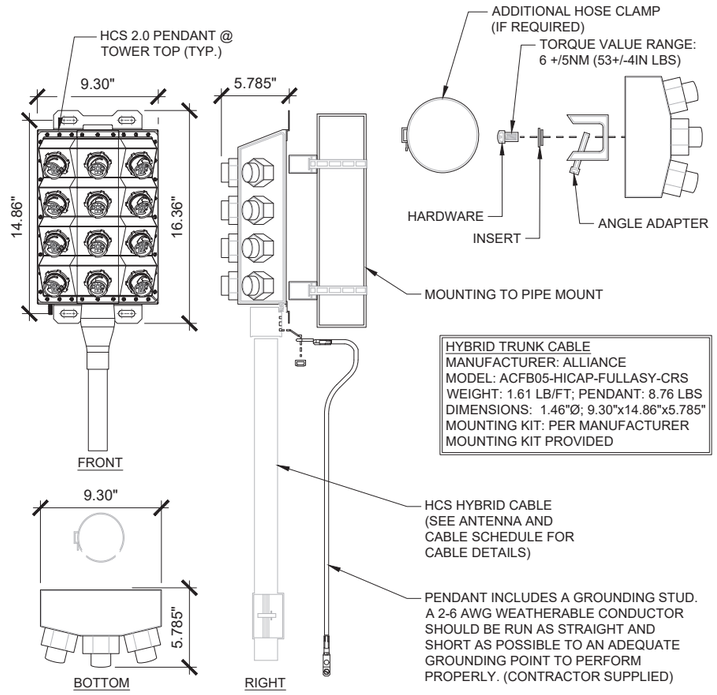
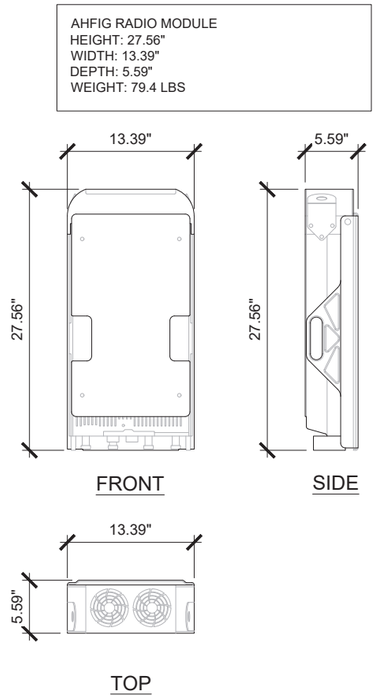
SHEET TITLE:
RF PLUMBING DIAGRAM

SHEET NUMBER: A-4.1

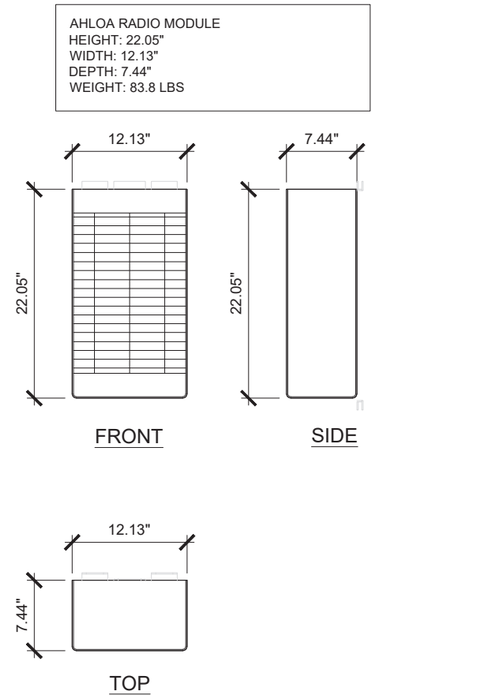
REVISION: 1



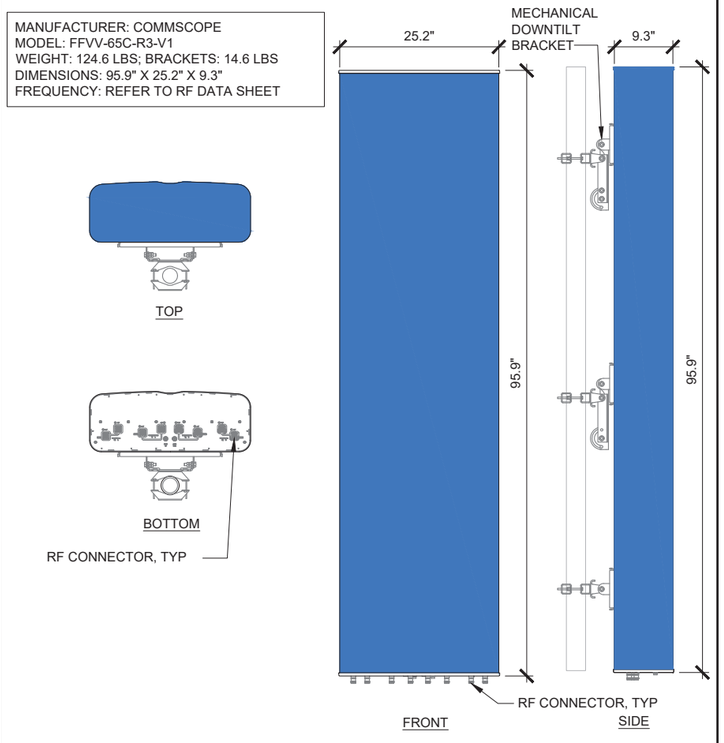
6 HCS 2.0 PENDANT DETAIL — NOT TO SCALE



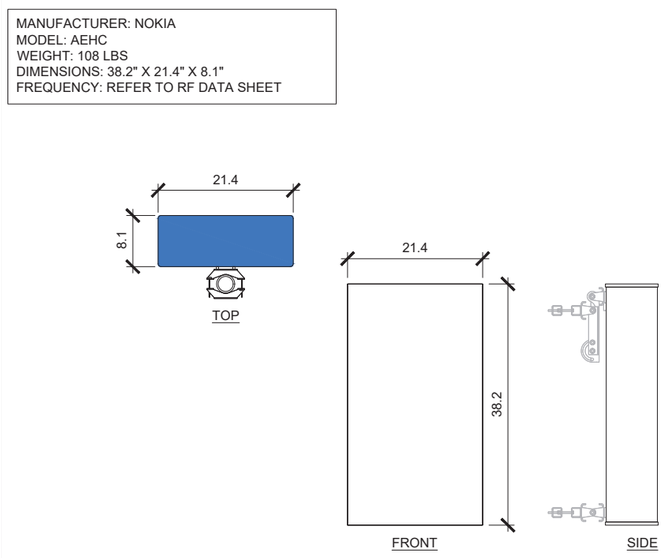
5 AHFIG DETAIL — NOT TO SCALE



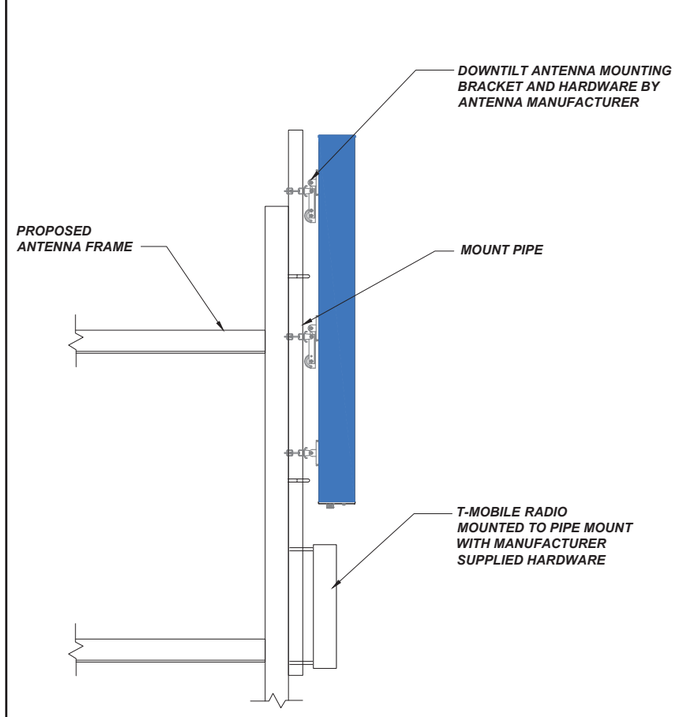
4 AHLOA DETAIL — NOT TO SCALE



3 ANTENNA DETAIL — NOT TO SCALE



2 ANTENNA DETAIL — NOT TO SCALE



NOTE: ROTATE FRAME OF MOUNT TO MATCH DEGREE LINE WHERE APPLICABLE.

1 MOUNTING DETAIL — NOT TO SCALE

T-Mobile
19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

smartlink
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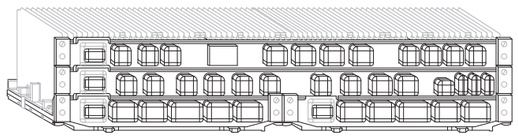
SHEET TITLE:
EQUIPMENT
DETAILS

SHEET NUMBER: A-5

REVISION: 1

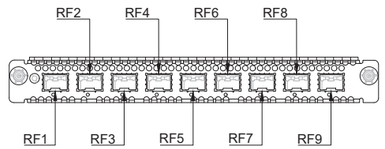
MANUFACTURER: NOKIA
MODEL: FSMF (MODULE)
DIMENSIONS: 5.2"x17.6"x16.5"
WEIGHT: 25.3 LBS



11 FSMF DETAIL

NOT TO SCALE

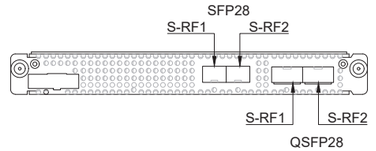
MANUFACTURER: NOKIA
MODEL: ABIC UNIT
DIMENSIONS: 8.6"x14.2"x1.7"
WEIGHT: 5.8 LBS



10 ABIC DETAIL

NOT TO SCALE

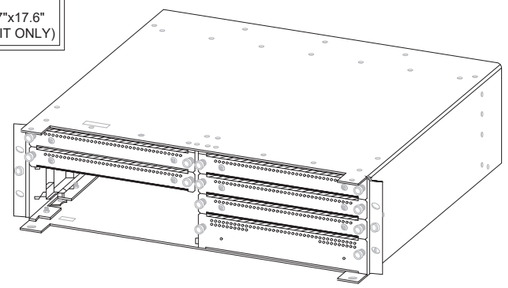
MANUFACTURER: NOKIA
MODEL: ABIL UNIT
DIMENSIONS: 8.6"x14.2"x1.1"
WEIGHT: 4.4 LBS



9 ABIL DETAIL

NOT TO SCALE

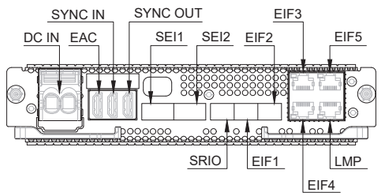
MANUFACTURER: NOKIA
MODEL: AMIA UNIT
DIMENSIONS: 5.1"x15.7"x17.6"
WEIGHT: 11.2 LBS (UNIT ONLY)



8 AMIA DETAIL

NOT TO SCALE

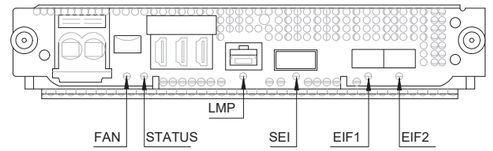
MANUFACTURER: NOKIA
MODEL: ASIB UNIT
DIMENSIONS: 8.6"x14.2"x1.7"
WEIGHT: 6.4 LBS



7 ASIB DETAIL

NOT TO SCALE

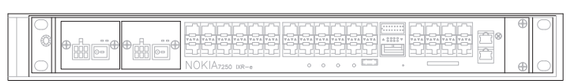
MANUFACTURER: NOKIA
MODEL: ASIK UNIT
DIMENSIONS: 8.6"x14.2"x1.7"
WEIGHT: 6.6 LBS



6 ASIK DETAIL

NOT TO SCALE

MANUFACTURER: NOKIA
MODEL: IXR-e
DIMENSIONS: 17.25"x10.0"x1.75"
WEIGHT: TBD



3 ROUTER DETAIL

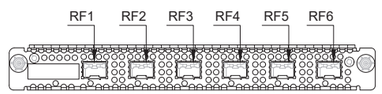
NOT TO SCALE

MANUFACTURER: RAYCAP
MODEL: 100-3-1U
DIMENSIONS: 1.7"x17.6"x13.5"
WEIGHT: 11.2"

5 VOLTAGE BOOSTER DETAIL

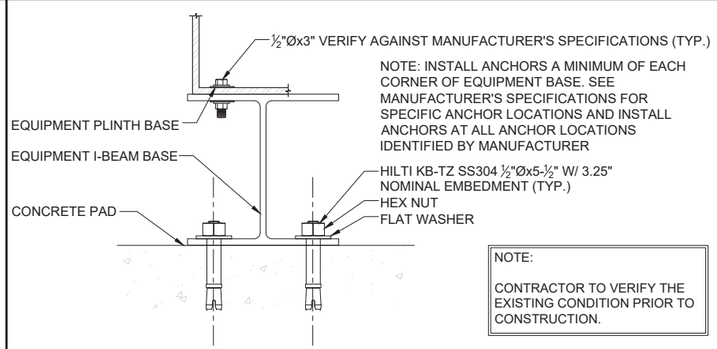
NOT TO SCALE

MANUFACTURER: NOKIA
MODEL: ABIA UNIT
DIMENSIONS: 8.6"x14.2"x1.1"
WEIGHT: 4.6 LBS



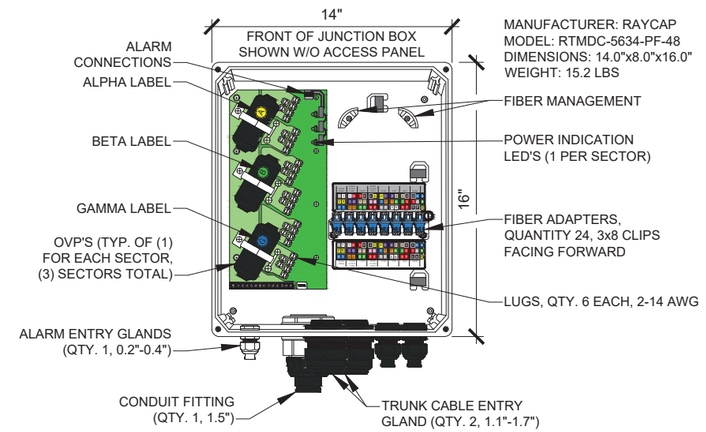
4 ABIA DETAIL

NOT TO SCALE



2 CABINET ATTACHMENT DETAIL

NOT TO SCALE



1 HCS 2.0 JUNCTION BOX DETAIL

NOT TO SCALE

T-Mobile
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BOTHELL, WA 98011

smartlink
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KIRKLAND, WA 98033

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30'-5" ROOFTOP

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1	08/12/21	CAP	100% CONSTRUCTION	PD

SHEET TITLE:
EQUIPMENT DETAILS

SHEET NUMBER: A-6

REVISION: 1

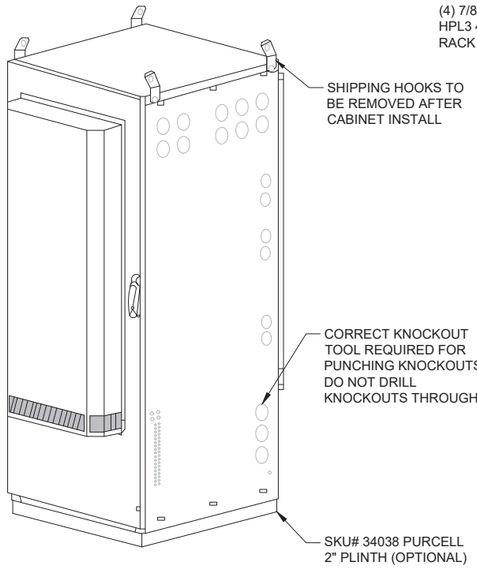
MANUFACTURER:	PURCELL SYSTEMS INC
MODEL:	HPL3 600A DC CABINET
WEIGHT:	430 LBS (WITHOUT EQUIPMENT)
DIMENSIONS:	30.0"x48.0"x72.0"

NOTE:

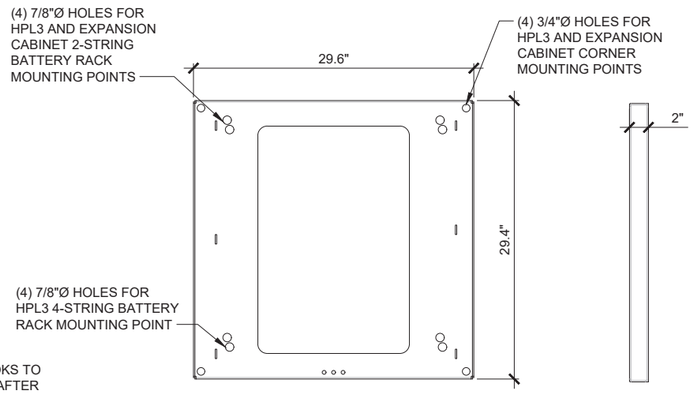
- ADDITIONAL KNOCKOUTS MAY BE REQUIRED AND CAN BE DRILLED ON SITE AS NECESSARY. FOR CABINETS STARTING AT 501 THERE WILL BE A TOTAL OF (8) KNOCKOUTS (2) HORIZONTAL ROWS OF (4)

RACK ASSIGNMENT

RACK	RU SLOT	DESCRIPTION
TOP	15	3RD AIRSCALE
	14	
	13	
	12	FIBER MUX
	11	
	10	2ND AIRSCALE
	9	
	8	
	7	FIBER MUX
	6	
	5	1ST AIRSCALE
	4	
	3	
	2	FIBER MUX
	1	
		RECTIFIER SHELF
BOTTOM	16	AAV
	15	CSR
	14	
	13	4TH AIRSCALE
	12	
	11	
	10	FIBER MUX
	9	3RD LEGACY BBU
	8	
	7	
	6	2ND LEGACY BBU
	5	
	4	
	3	1ST LEGACY BBU
	2	
	1	

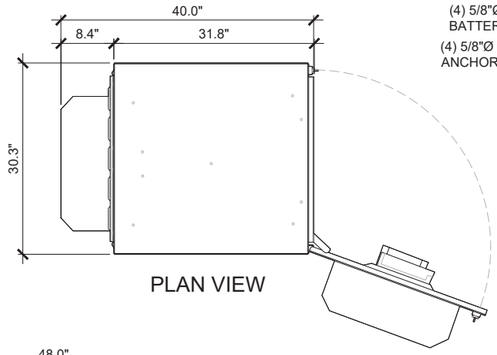


ISO VIEW

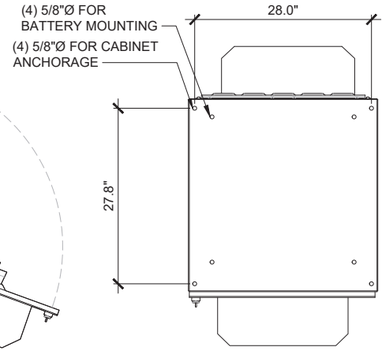


SKU# 34038 PURCELL 2" PLINTH
PLAN VIEW

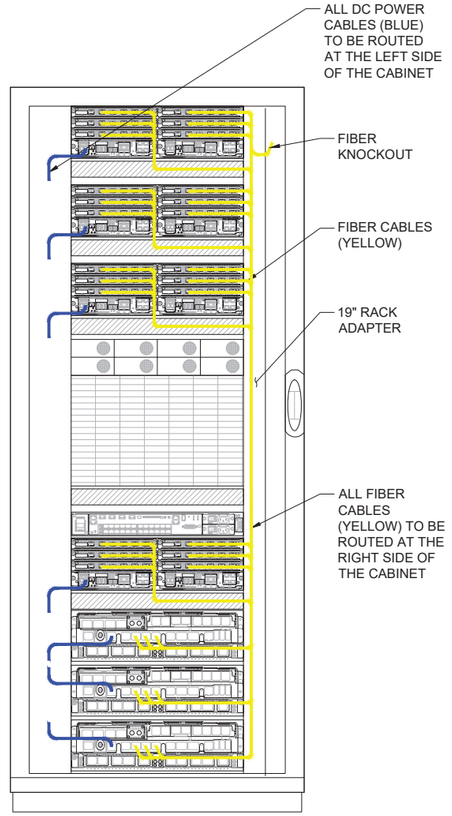
SKU# 34038 PURCELL
2" PLINTH
SIDE VIEW



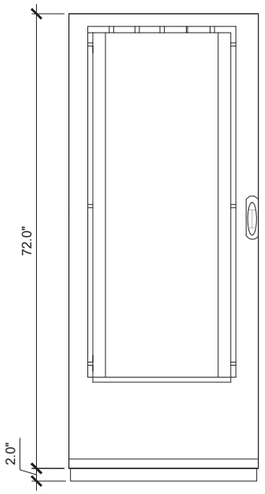
PLAN VIEW



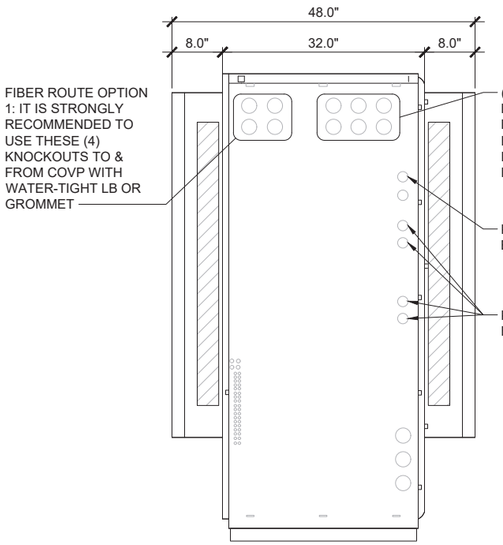
MOUNTING FOOTPRINT



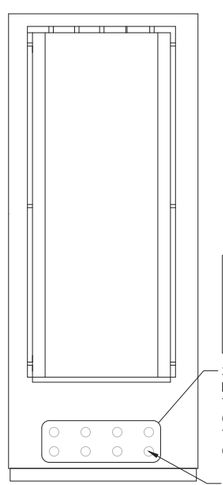
INTERNAL ROUTING



FRONT VIEW



RIGHT VIEW

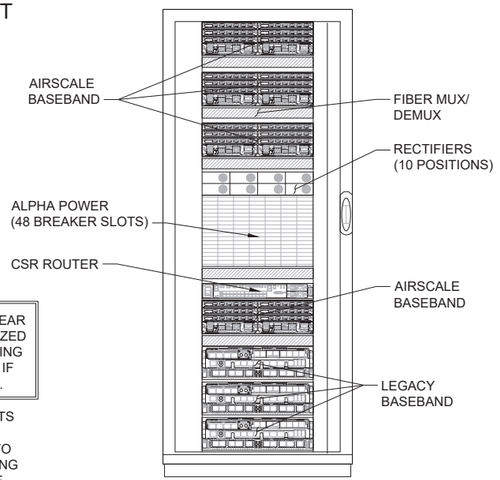


FIBER ROUTE OPTION 2: REAR KNOCKOUTS CAN BE UTILIZED FOR BOTTOM FIBER ROUTING FROM COVP TO AIRSCALE IF OPTION 1 IS UNAVAILABLE.

2 ROWS OF (4) 2" KNOCKOUTS INTENDED FOR POWER, TELCO, & BOTTOM FIBERS TO COVP. ALL INCOMING CABLING TO BE IN RIGID OR FLEXIBLE CONDUIT WITH AN LB.

ANY OF THE BOTTOM KNOCKOUTS CAN BE USED FOR THE AC POWER FEED

BACK VIEW



FRONT VIEW
(OPEN)

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BOTHELL, WA 98011

smartlink
11232 120TH AVE NE, SUITE 204
KIRKLAND, WA 98033

INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless
2500 W. HIGGINS RD. STE. 500
HOFFMAN ESTATES, IL 60169
JOB NUMBER 4106-C0004-C

T-MOBILE SITE:
SE03219A
TOTEM LAKE MTL 6-MOTEL 6
OPERATING-SE03XC356

12010 120TH PL NE
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KING COUNTY

30'-5" ROOFTOP

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/16/21	EPR	PRELIMINARY REVIEW	PD
B	05/18/21	EPR	REVISED PER COMMENTS	PD
0	08/10/21	CAP	100% CONSTRUCTION	PD
1	08/12/21	CAP	100% CONSTRUCTION	PD

SHEET TITLE:
EQUIPMENT DETAILS

SHEET NUMBER: A-6.1

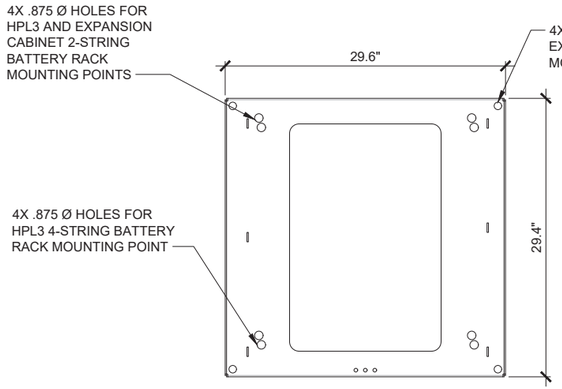
REVISION: 1

1 PURCELL HPL3 POWER CABINET DETAILS

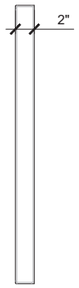
NOT TO SCALE

MANUFACTURER:	PURCELL SYSTEMS INC
MODEL:	LB3 LARGE BATTERY CABINET
WEIGHT:	350 LBS (WITHOUT EQUIPMENT)
DIMENSIONS:	30.0"x31.6"x60.4"

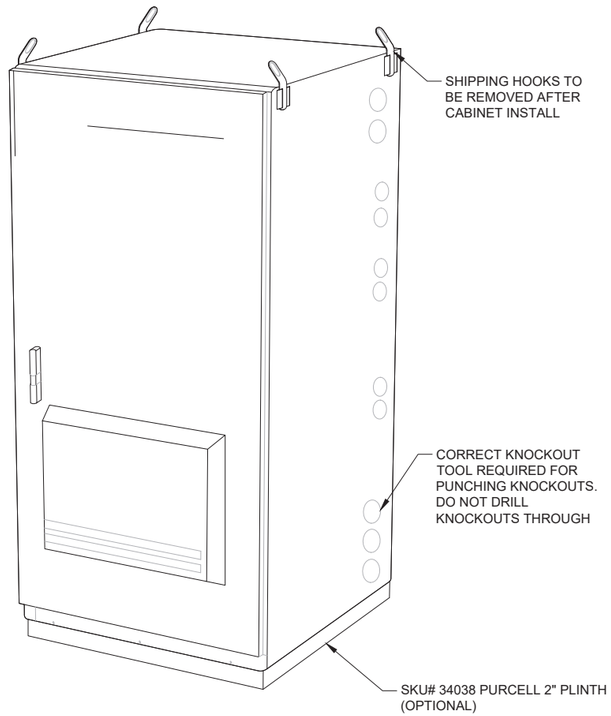
NOTE:
- WIRES RUN THROUGH PROVIDED KNOCKOUT. FOLLOW PROPER INSTALLATION OF GASKET BEFORE MATING THE 2 CABINETS



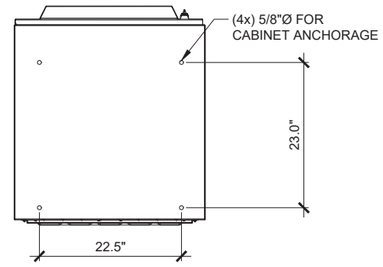
SKU# 34038 PURCELL 2" PLINTH
PLAN VIEW



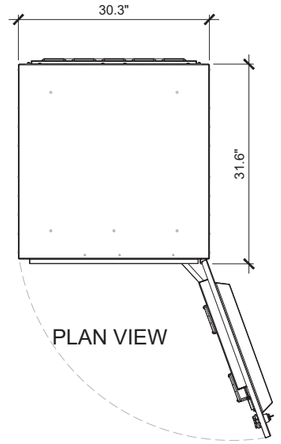
SKU# 34038 PURCELL 2" PLINTH
SIDE VIEW



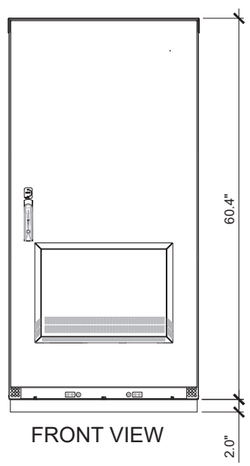
ISO VIEW



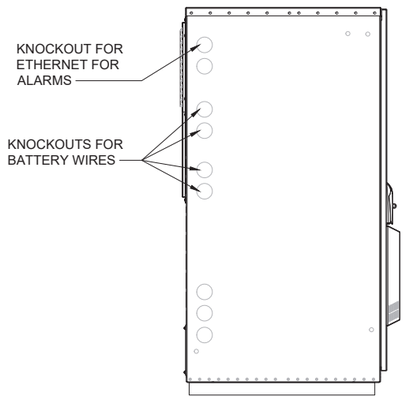
MOUNTING FOOTPRINT



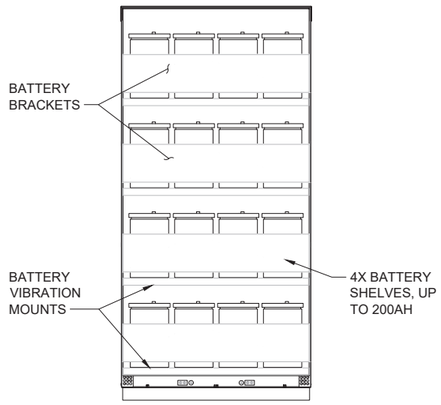
PLAN VIEW



FRONT VIEW



LEFT VIEW



FRONT VIEW
(OPEN)

1 PURCELL HPL3 BATTERY CABINET DETAILS

NOT TO SCALE

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T-MOBILE SITE:
SE03219A
TOTEM LAKE MTL 6-MOTEL 6
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30'-5" ROOFTOP

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SHEET TITLE:
EQUIPMENT DETAILS

SHEET NUMBER: A-6.2

REVISION: 1

BATTERY STORAGE SYSTEM THRESHOLD QUANTITIES

BATTERY TECHNOLOGY	CAPACITY
FLOW BATTERIES	20 kWh
LEAD ACID, ALL TYPES	70 kWh
LITHIUM, ALL TYPES	20 kWh
NICKEL CADMIUM (Ni-Cd)	70 kWh
SODIUM, ALL TYPES	20 kWh
OTHER BATTERY TECHNOLOGIES	10 kWh

FOR SI: 1KILOWATT HOUR = 3.6 MEGAJOULES
A. FOR BATTERIES RATED IN AMP-HOURS, kWh SHALL EQUAL RATED VOLTAGE TIMES AMP-HOUR RATING DIVIDED BY 1000
B. SHALL INCLUDE VANADIUM, ZINC-BROMINE, POLYSULFIDE-BROMIDE, AND OTHER FLOWING ELECTROLYTE-TYPE TECHNOLOGIES
C. 70 kWh FOR SODIUM-ION TECHNOLOGIES

BATTERY INFORMATION

BATTERY QUANTITY:
(4) STRINGS (MAXIMUM) IN BATTERY CABINET.
(4) BATTERIES PER STRING, (16) BATTERIES TOTAL

TOTAL AMOUNT OF AMP HOURS/STRING: (190 Ah) X (48 V) = 9120 Wh/1000 = 9.120 kWh

TOTAL NUMBER OF STRINGS IN THE CABINET: 4 (MAXIMUM)
4 X 9.120 kWh = 36.48 kWh

PER IFC, CHAPTER 12, SECTION 1206.2.1 THROUGH 1206.2.12.6 NOT ABOVE THRESHOLD

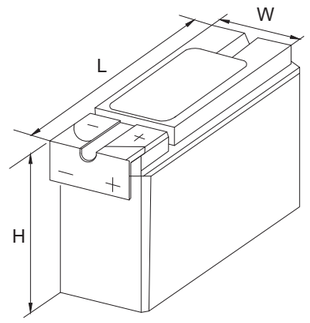
BATTERY SPECIFICATIONS:
MANUFACTURER: ENERSYS
PRODUCT: POWErSAFE SBS-190F
CHEMISTRY: VALVE REGULATED LEAD ACID
NUMBER OF CELLS: 6
NOMINAL VOLTAGE: 12V
NOMINAL CAPACITY:
8 HR RATE 1.75Vpc @ 77°F (25°C): 190 Ah
10 HR RATE 1.80vpc @ 20°C: 190 Ah

NOMINAL DIMENSIONS:
LENGTH: 22.1" (561 mm)
WIDTH: 4.9" (125 mm)
HEIGHT: 12.4" (316 mm)
WEIGHT: 132.3 LBS (60.0 kg)
SHORT CIRCUIT CURRENT: 3800 AMPS
INTERNAL RESISTANCE: 3.30 MILLI-OHMS
TERMINALS: M6 M

ELECTROLYTE (PER BLOC):
VOLUME: 2.34 GAL (8.85 L)
WEIGHT: 25.3 LBS (11.5 kg)

PURE H2SO4 ACID (PER BLOC):
VOLUME: 0.66 GAL (2.49 L)
WEIGHT: 10.1 LBS (4.56 kg)

LEAD WEIGHT (PER BLOC): 95.8 LBS (43.4 kg)



SBS B8F-190F FRONT TERMINAL

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1	08/12/21	CAP	100% CONSTRUCTION	PD

CHRISTOPHER J WARREN
STATE OF WASHINGTON
40190
REGISTERED
PROFESSIONAL ENGINEER
8/18/21

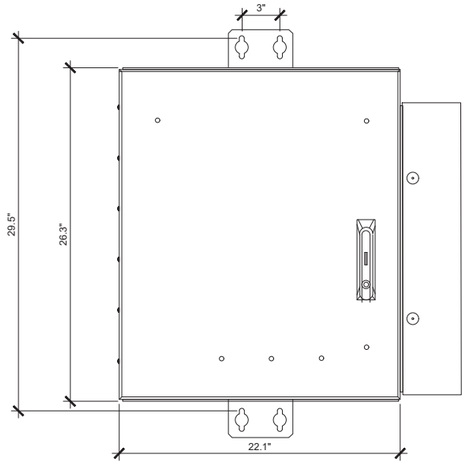
SHEET TITLE:
BATTERY
INFO

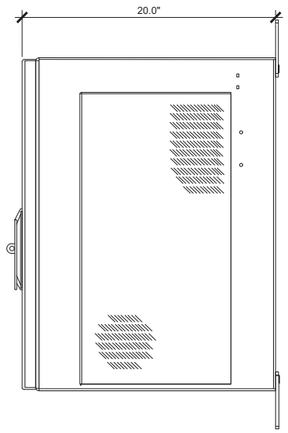
SHEET NUMBER: A-6.3
REVISION: 1

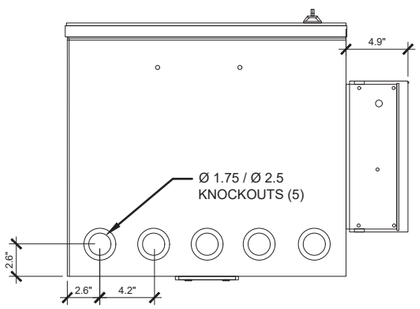
1 BATTERY INFO

NOT TO SCALE

Charles Universal Broadband Enclosures (CUBE)
RL1000 Series Backhaul Cabinets





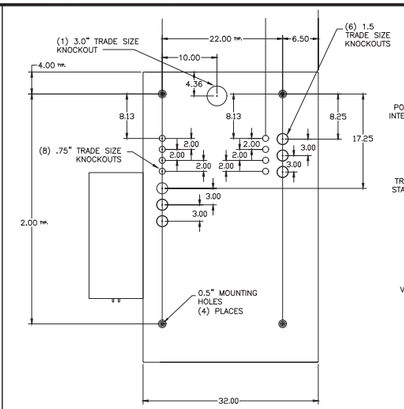


CUBE ACCESSORIES	CI PART#
POLE MOUNT KIT	97-CABPMTKIT
H-FRAME HARDWARE KIT	97-00 1971-A
SLIDE-OUT TRAY	97-00 1990-A
10" PLINTH KIT	97-002127-A

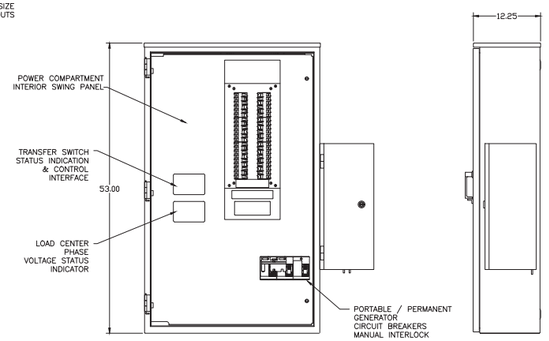
CUBE RL 1000 SERIES CABINETS PROVIDE ENVIRONMENTAL PROTECTION OF ETHERNET EQUIPMENT AND OTHER ELECTRONICS FOR WIRELESS BACKHAUL APPLICATIONS AT CELLSITES AND OTHER REMOTE OUTDOOR APPLICATIONS. WITH 14RU OF RACK SPACE, THESE COMPACT ENCLOSURES CAN BE FLEXIBLY MOUNTED IN SMALL SPACES. AN OPTIONAL SLIDE-OUT TRAY (97-001990-A) PROVIDES STORAGE OF EQUIPMENT THAT IS NOT RACK MOUNTABLE.

OVERALL DIMENSIONS:	26" H X 22" W X 20" D
RACK SPACE:	14RU
RACK WIDTH:	19" EIA STANDARD
HOLE SPACING ON RACKS:	EIA 12-24
BONDING AND GROUNDING:	(1) 8 POSITION, 2-HOLE GROUND BARS
FUSE PANEL:	(1) WALLMOUNT 10 POSITION GMT TYPE
CABLE ENTRANCE:	(5) 1.75/2.5" DOUBLE KNOCKOUTS
COLOR:	OFF-WHITE
CONSTRUCTION:	WELDED ALUMINUM
MOUNTING:	WALL OF H-FRAME, POLE MOUNT WITH OPTIONAL KIT
THERMAL MANAGEMENT OPTIONS: HVAC, VENTED WITH FANS	580W 24VDC/48VDC/120VAC HX, 750W 48VDC HX, 2K BTU

1 TELCO BOX DETAILS — NOT TO SCALE

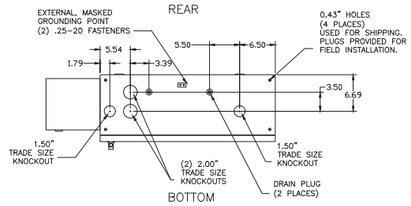


REAR

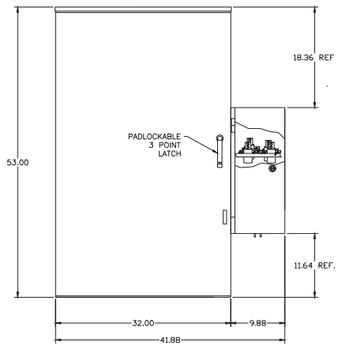


FRONT
EXTERIOR DOORS
REMOVED

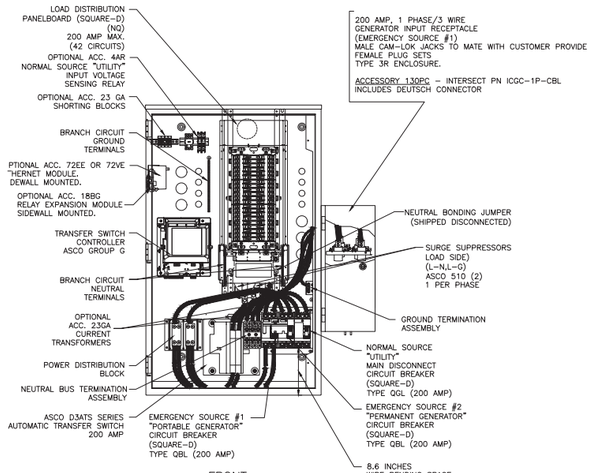
RIGHT SIDE



BOTTOM



FRONT EXTERIOR DOOR



FRONT
EXTERIOR DOORS
&
TOP COMPARTMENT
SWING PANEL
REMOVED

ASCO D300L SERIES POWER TRANSFER LOAD CENTER RATED 200A, 240 VAC MAX., SINGLE PHASE /3 WIRE TYPE 3R ENCLOSURE

Notes:

1) Power Transfer Load Center constructed in accordance with UL 67 Standard for Paneboards Suitable for Use as Service Equipment.

2) Automatic Power Transfer Switch: ASCO D3ATS, 2 Pole, 200 Amp, 240 Vac max. UL Listed to UL 1008 Standard for Transfer Switching Equipment.

   Transfer Controller – ASCO Group G Automatic Transfer Switch Controller including:
   Automatic Engine Starting Contacts
   Single Phase voltage sensing of Normal and Emergency sources.
   Frequency sensing of Emergency source.

3) Short Circuit Ratings: Accessory 117CB10 (Standard)

   (Mains): Normal Source – 42kA at 240 Vac max. (Utility Main Disconnect circuit breaker), Square-D Cat. Type QG, 2 pole, 200 amps.

   Emergency Source #1 (Portable Generator Input circuit breaker) –
   Using Standard Acc. 130PL Generator Input Receptacle: 10kA at 240 Vac, INTERSECT PN ICGC-1P-CBL
   (UL 1008 Listed Transfer Switch Accessory)
   connected to Square-D Cat. Type QB, 2 Pole, 200 Amps.

   Emergency Source #2 (Permanent Generator Input circuit breaker) – 10kA at 240 Vac, Square-D Cat. Type QB, 2 Pole, 200 Amps.

   (Branch): Branch ratings as follows when used with the specified branch devices.
   42kA using Sq-D QH or QHB rated: 1 pole 15–30a, 2 pole 15–30a, 3 pole 15–30a.
   22kA using Sq-D QO–VH or QOB–VH rated: 2 pole 150a, 3 pole 35–150a.
   10kA using Sq-D QO or QOB rated: 1 pole 15–70a, 2 pole 15–125a, 3 pole 15–30a.

4) Panelboard: Square-D NQ, 225 amps max., 240 Vac, single phase with 100% rated neutral. 42 Circuits, accepts bolt-on or plug-on branch devices.

5) Accessory 4AR (Optional) – Voltage Sensing Relay to indicate the presence of the Normal Source "Utility" voltage ahead of the Normal Source main disconnect circuit breaker, regardless of the position of the circuit breaker.

6) Accessory 11BE (Optional) – A Four–Function Software Bundle that provides the following functions;

   – Serial Communications (RS–485)
   – Programmable Engine Exerciser with Battery Back–up
   – Event Log
   – Common alarm signal capability on group g controller "OP1" output.

7) Accessory 18BG (Optional) – Signals the availability of the Normal & Emergency sources when provided. Output contacts "RL5" (Emergency Source Available) and "RL6" (Normal Source Available) change position when the source is acceptable.

8) Accessory 23GA (Optional) – Single Phase Current Sensing Module with current transformers and shorting blocks. Phase current measurements are available for display on the Group G Controller.

9) Accessory 72EE OR 72VE (Optional) – ASCO 5140 Ethernet Connectivity Module. Provides remote ATS and Generator control, Monitoring and Connectivity Features via integrated web page dashboards.

10) Accessory 73TL1 (Standard) – Transient Surge Protection – Connected to line side of panelboard for L–N (L–G if used as service equipment) mode protection. ASCO 510 Series TVSS with phase monitoring, alarm module, and load phase voltage availability indicator's (LED).

11) Accessory 117IB (Standard) – Generator Selector Circuit Breakers (Emergency Source #1 & Emergency Source #2) – One each two pole, 200A circuit breaker for two separate generator inputs. UL 1008 approved manual slide type interlock to permit connection of only one generator to the transfer switch Emergency Source input.

12) Accessory 130PC (Standard) – Generator Input Receptacle (Emergency Source #1) Rated 200 amps, 1 phase/3 wire with ground. Constructed with male Cam–Lok connectors, 1 per phase, neutral and ground. Color coded (Line 1–Black, Line 2–Red, Neutral–White, ground–Green). Accepts mating female plugs, (customer provided), for (1) #2–4/0 Cu conductor. Type 3R enclosure with bottom conductor entry. Includes Deutsch brand, 12 pin receptacle wired to engine starting signal contacts. UL 1008 Listed transfer Switch Accessory. UL 1008 Listed Withstand Current Rating: 10,000 amps at 240 VAC max. with any molded case circuit breaker.

13) Enclosure:
    Type 3R Listed to UL 50/50E & UL 67. Single Compartment Wall Mount Compartment provides Type 1 protection with exterior open and swing panels closed.
    Box & Doors – Constructed of 0.095 thick aluminum alloy (5052–H32).
    Finishes – All interior and exterior surfaces: Textured Polyester Powder Coat, Light Gray (RAL 7035)

14) Grounding provisions for Normal, Emergency & Load.

15) Overall Dimensions:
    53"H x 32"W x 12.3"D (excluding side mount receptacle)
    53"H x 41.88"W x 12.3"D (including side mount receptacle)

17) Weight: Approx. 200 lbs.

1 POWER PANEL DETAILS — NOT TO SCALE

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19807 NORTH CREEK PKWY N
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SHEET TITLE:
EQUIPMENT DETAILS

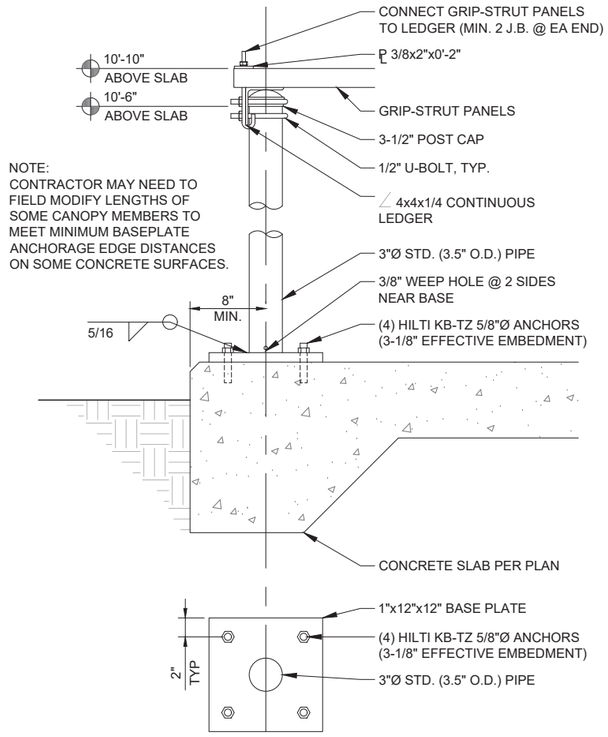
SHEET NUMBER: A-7

REVISION: 1

6 NOT USED

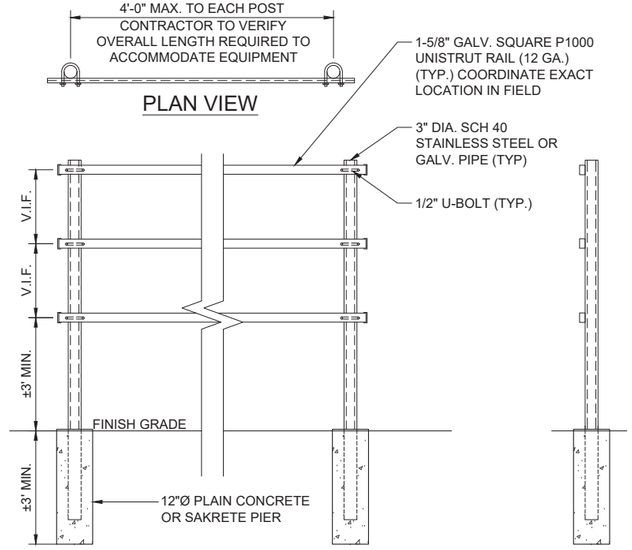
NOT TO SCALE

5 ICE CANOPY DETAIL

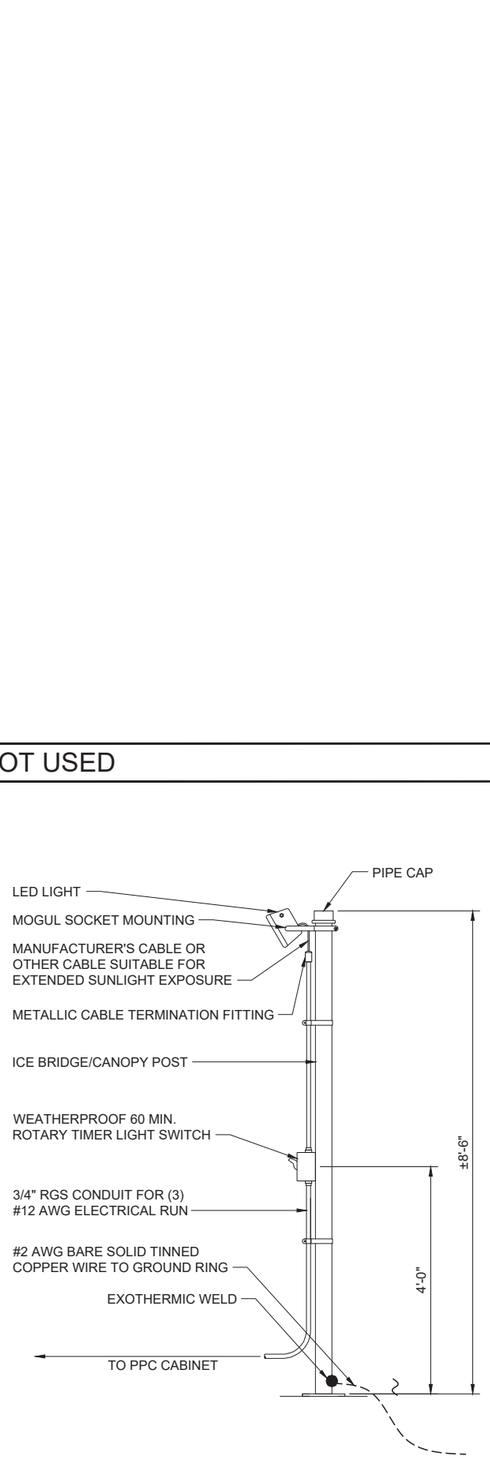


NOT TO SCALE

4 H-FRAME DETAIL

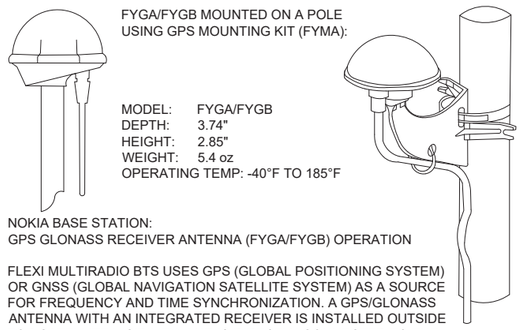


NOT TO SCALE



3 WORK LIGHT W/ TIMER DETAIL

NOT TO SCALE



FYGA/FYGB MOUNTED ON A POLE USING GPS MOUNTING KIT (FYMA):

MODEL: FYGA/FYGB
DEPTH: 3.74"
HEIGHT: 2.85"
WEIGHT: 5.4 oz
OPERATING TEMP: -40°F TO 185°F

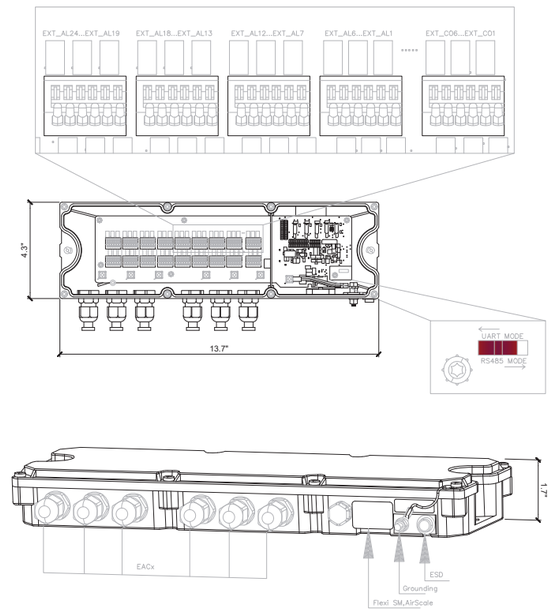
NOKIA BASE STATION:
GPS GLONASS RECEIVER ANTENNA (FYGA/FYGB) OPERATION

FLEXI MULTIRADIO BTS USES GPS (GLOBAL POSITIONING SYSTEM) OR GNSS (GLOBAL NAVIGATION SATELLITE SYSTEM) AS A SOURCE FOR FREQUENCY AND TIME SYNCHRONIZATION. A GPS/GLONASS ANTENNA WITH AN INTEGRATED RECEIVER IS INSTALLED OUTSIDE FOR SATELLITE VISIBILITY, AND IS DIRECTLY CONNECTED TO THE SYSTEM MODULE. DC POWER FEED FOR THE RECEIVER IS SUPPLIED THROUGH THE COMBINED POWER AND DATA CABLE. THE OPERATING TEMPERATURE RANGE ID FROM -40C TO +85C (-40F TO +185F). NOTE: FYGA/FYGB IS SET TO SUPPORT BOTH GPS AND GLONASS SATELLITE SYSTEMS. TO SUPPORT GLONASS ONLY MODE, FYGA/FYGB HAS TO OPERATE WITH NOKIA APPROVED FIRMWARE V2.11 OR LATER.

2 GPS ANTENNA DETAIL

NOT TO SCALE

MANUFACTURER:	NOKIA
MODEL:	473751A
WEIGHT:	1.5 LBS
DIMENSIONS:	13.7"x4.3"x1.7"



1 FSEE DETAIL

NOT TO SCALE

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smartlink
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HOFFMAN ESTATES, IL 60169
JOB NUMBER 4106-C0004-C

T-MOBILE SITE:
SE03219A
TOTEM LAKE MTL 6-MOTEL 6
OPERATING-SE03XC356

12010 120TH PL NE
KIRKLAND, WA 98034
KING COUNTY

30'-5" ROOFTOP

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/16/21	EPR	PRELIMINARY REVIEW	PD
B	05/18/21	EPR	REVISED PER COMMENTS	PD
0	08/10/21	CAP	100% CONSTRUCTION	PD
1	08/12/21	CAP	100% CONSTRUCTION	PD

SHEET TITLE:
EQUIPMENT DETAILS

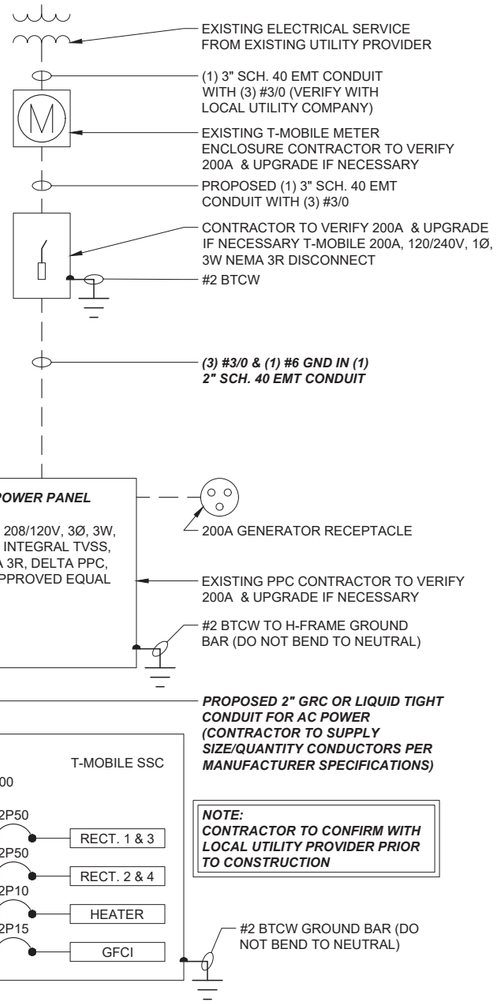
SHEET NUMBER: A-8

REVISION: 1

A SEPARATE ELECTRICAL
PERMIT IS REQUIRED.

3 NOT USED

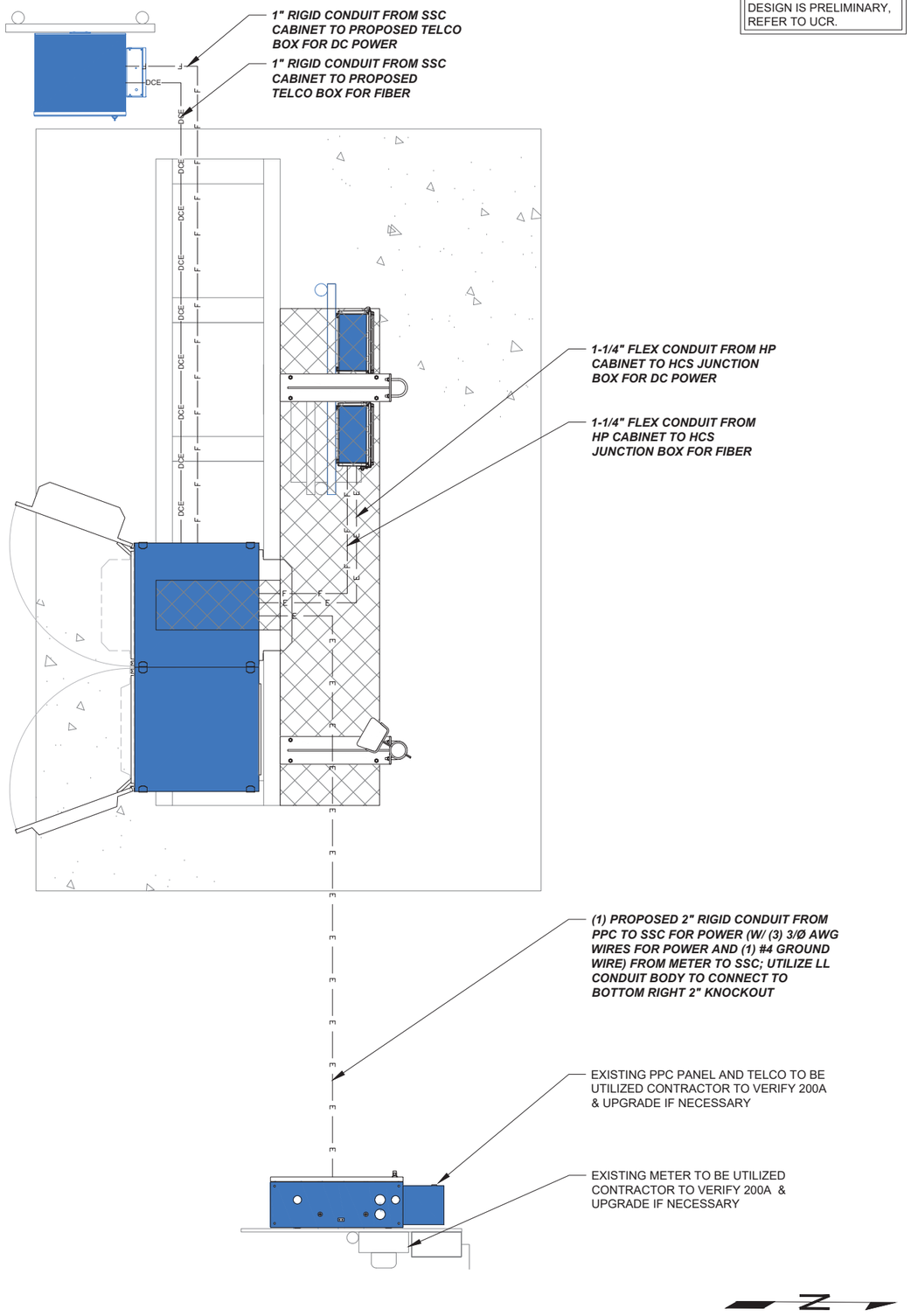
NOT TO SCALE



2 ONE LINE DIAGRAM

NOT TO SCALE

NOTE:
DESIGN IS PRELIMINARY, REFER TO UCR.



1 UTILITY ROUTING PLAN

22"x34" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0"

1' 6" 0" 1'

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KING COUNTY

30'-5" ROOFTOP

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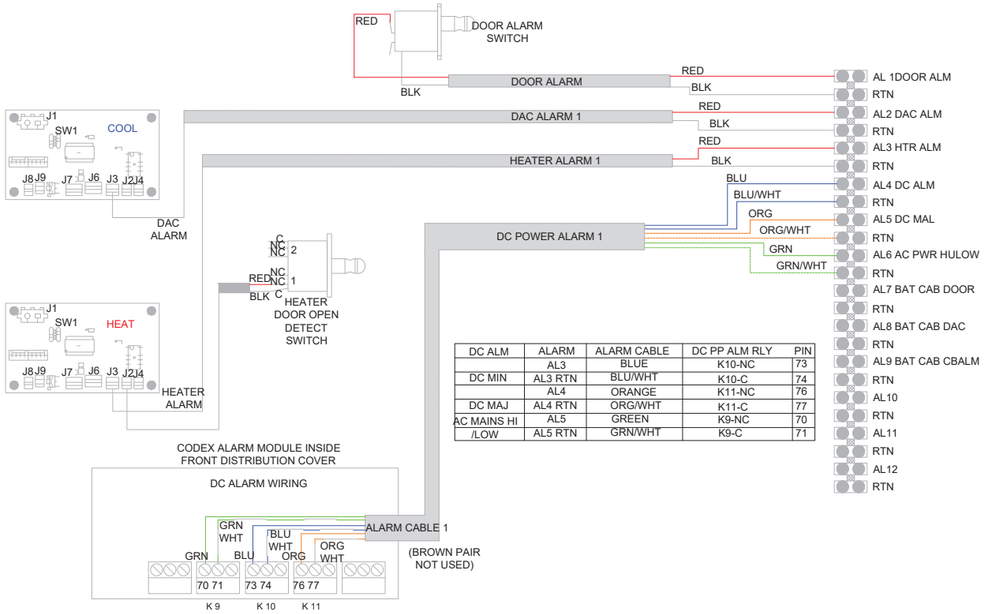
1	08/12/21	CAP	100% CONSTRUCTION	PD

SHEET TITLE:
UTILITY ROUTING PLAN & DETAILS

SHEET NUMBER: E-1

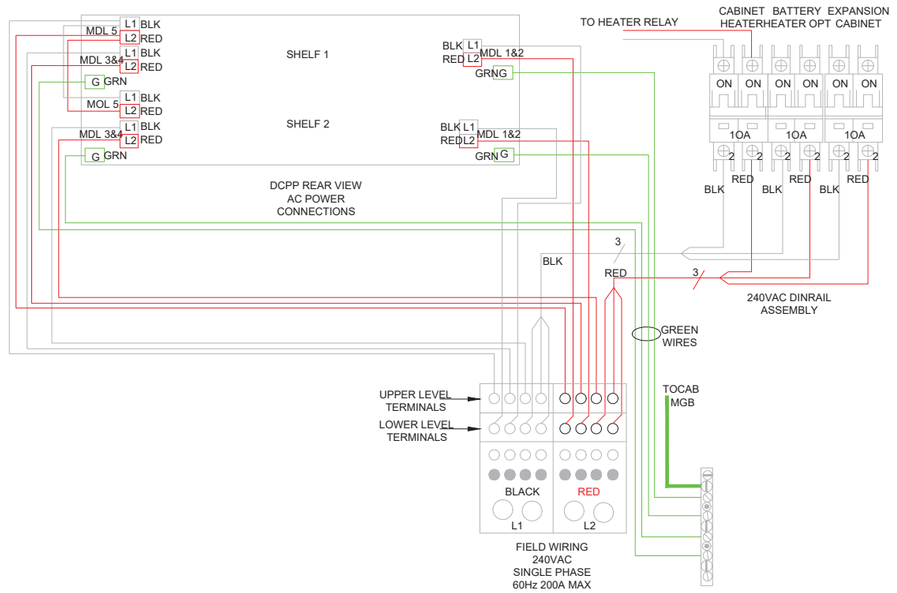
REVISION: 1



DC ALM	ALARM	ALARM CABLE	DC PP ALM RLY	PIN
	AL3	BLUE	K10-NC	73
DC MIN	AL3 RTN	BLU/WHT	K10-C	74
	AL4	ORANGE	K11-NC	76
DC MAJ	AL4 RTN	ORG/WHT	K11-C	77
AC MAINS HI	AL5	GREEN	K9-NC	70
/LOW	AL5 RTN	GRN/WHT	K9-C	71

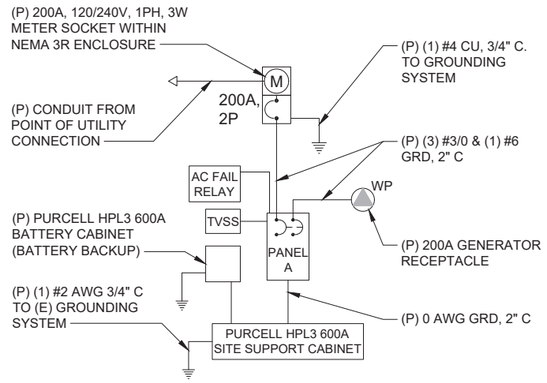
4 ALARM WIRING DIAGRAM

NOT TO SCALE



3 AC POWER WIRING DIAGRAM

NOT TO SCALE

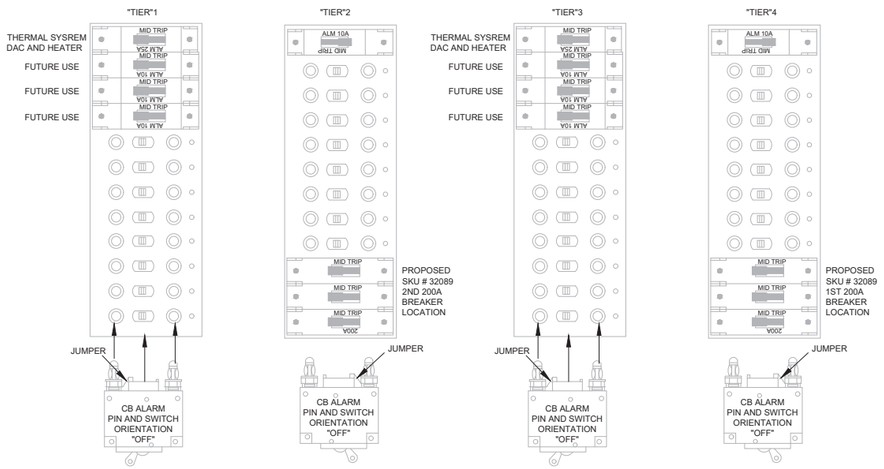


2 ONE-LINE DIAGRAM

NOT TO SCALE

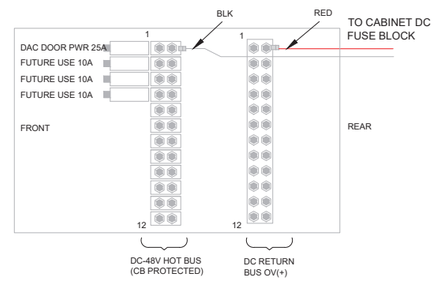
NOTE:
DIAGRAMS PROVIDED ARE PER MANUFACTURER INSTALLATION GUIDE

DC DISTRIBUTION-DOOR OPEN FROM VIEW



OBSERVE CORRECT ALARM PIN ORIENTATION

DC DISTRIBUTION TERMINALS
"TIER"1 OF 4(SIDE VIEW)



1 DC POWER WIRING DIAGRAM

NOT TO SCALE

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OPERATING-SE03XC356

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KING COUNTY

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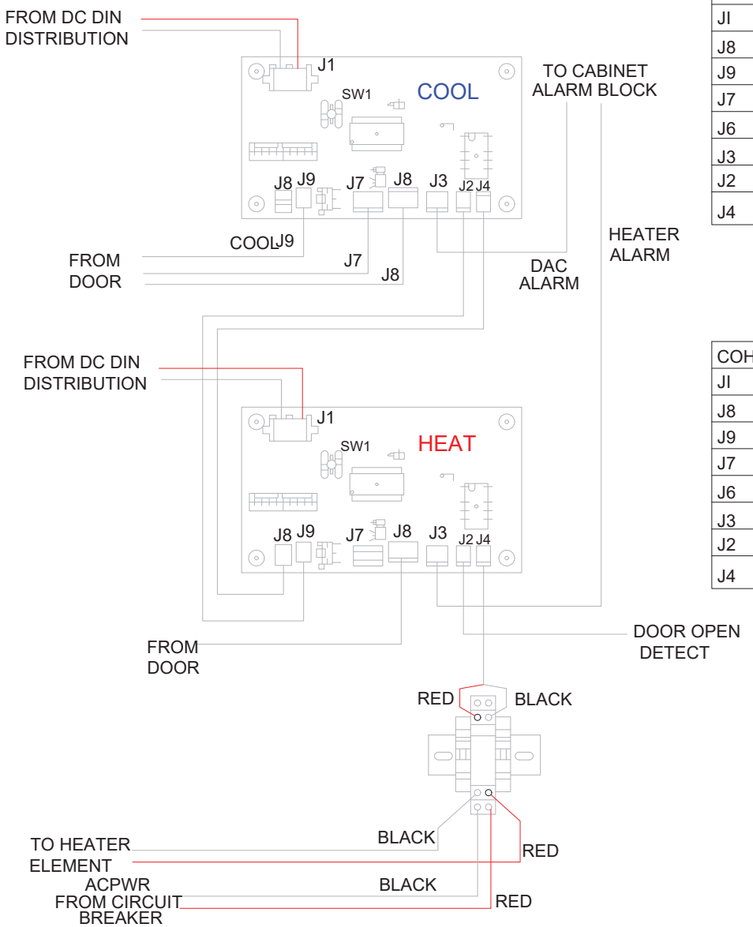
1	08/12/21	CAP	100% CONSTRUCTION	PD

SHEET TITLE:
ELECTRICAL DIAGRAMS

SHEET NUMBER: E-1.1

REVISION: 1



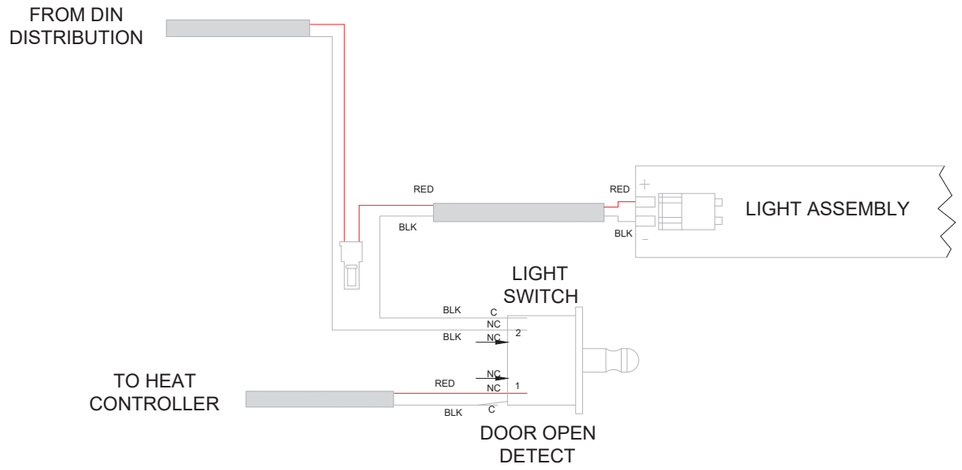
DAC (COOLING) CONTROLLER

COHN	FUNCTION
JI	PIWR IN
J8	DELTA T JUMPER
J9	OUTSIDE TEMPERATURE
J7	DACFAN (LOWER)
J6	DACFAN (UPPER)
J3	ALARM
J2	COOLING INHBIT
J4	HEAT REQUEST

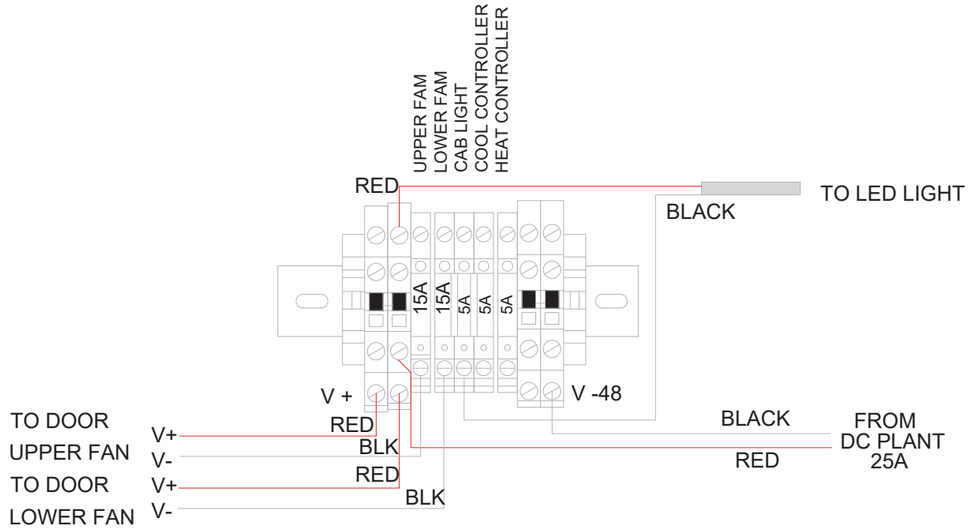
HEATER CONTROLLER

COHN	FUNCTION
JI	PIWR IN
J8	HEAT REQUEST
J9	COOLING INHBIT
J7	UNUSED
J6	HEATER FAN
J3	ALARM
J2	DOOR SW INPUT
J4	HEATER RELAY CONTROL

2 DC HEATING AND COOLING WIRING DIAGRAM — NOT TO SCALE



3 DC CABINET DOOR LIGHT POWER WIRING DIAGRAM — NOT TO SCALE



DC DISTRIBUTION (BLACK WIRE JUMPERS TO FUSE POSITIONS REMOVED FOR CLARITY)

1 DC FUSE BLOCK WIRING DIAGRAM — NOT TO SCALE

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OPERATING-SE03XC356

12010 120TH PL NE
KIRKLAND, WA 98034
KING COUNTY

30'-5" ROOFTOP

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SHEET TITLE:
ELECTRICAL DIAGRAMS

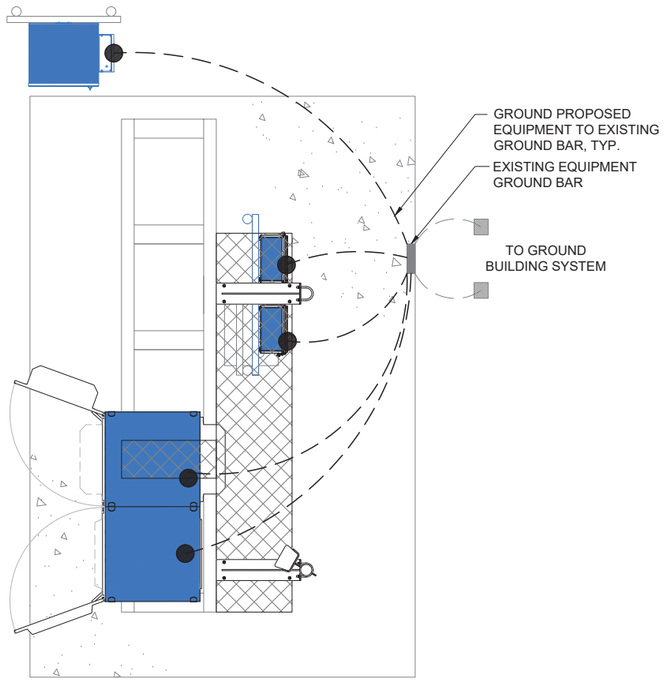
SHEET NUMBER: E-1.2
REVISION: 1

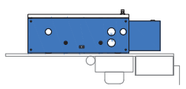
GROUNDING SYMBOLS

- GROUND BAR
- GROUND ROD WITH ACCESS
- CHEMICAL GROUND ROD
- GROUND ROD
- CADWELD TYPE CONNECTION
- COMPRESSION TYPE CONNECTION
- GROUNDING WIRE

TYPICAL: #6 AWG FROM EQUIPMENT TO GROUND BAR; #2 FROM GROUND BAR TO GROUND RING, FROM METER TO GROUND RING, AND FOR GROUND RING.

NOTE:
GC TO PERFORM GROUND RESISTANCE TEST NOT TO EXCEED (10) OHMS IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES PERFORMING TEST OR IF MEASUREMENTS EXCEED (10) OHMS.





2 EQUIPMENT GROUNDING PLAN

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

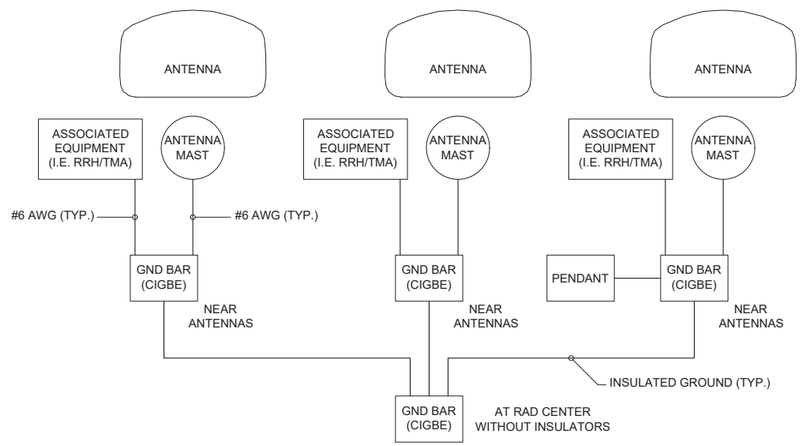
2' 1' 0' 2'

3 NOT USED

NOT TO SCALE

GENERAL GROUNDING NOTES:

1. TO ENSURE PROPER BONDING, ALL CONNECTIONS SHALL BE AS FOLLOWS:
   - #2/0 BARE TINNED SOLID COPPER CONDUCTOR: CADWELD TO RODS OR GROUND RING
   - LUGS AND BUS BAR (UNLESS NOTED OTHERWISE): SANDED CLEAN, COATED WITH OXIDE INHIBITOR AND BOLTED FOR MAXIMUM SURFACE CONTACT. ALL LUGS SHALL BE COPPER (NO ALUMINUM SHALL BE PERMITTED). PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
2. ALL GROUNDING CABLE IN CONCRETE OR THROUGH WALLS SHALL BE IN 3/4" PVC CONDUIT. SEAL AROUND CONDUIT THROUGH WALLS. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS.
3. OWNER'S REPRESENTATIVE WILL INSPECT CADWELDS AND CONDUCT MEGGER TEST PRIOR TO BURIAL. MAXIMUM 5 OHMS RESISTANCE IS REQUIRED.
4. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS SHALL BE A MINIMUM 8" RADIUS AND NO GREATER THAN 90 DEGREES.
5. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM.
6. THE PREFERRED LOCATION FOR COAX GROUNDING IS AT THE BASE OF THE TOWER PRIOR TO THE COAX BEND. BONDING IS SHOWN ON THE ICE BRIDGE DUE TO DIFFICULTY WITH WELDING OR ATTACHING TO TOWER LEGS. CONTRACTOR SHALL ADVISE CONSTRUCTION MANAGER PRIOR TO PLACING CIGBE ON ICE BRIDGE IF MOUNTING TO TOWER LEG IS POSSIBLE.
7. BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-30.



1 ANTENNA SCHEMATIC GROUNDING SYSTEM & NOTES

NOT TO SCALE

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KING COUNTY

30'-5" ROOFTOP

DRAWINGS ISSUED FOR:

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1	08/12/21	CAP	100% CONSTRUCTION	PD

SHEET TITLE:
SCHEMATIC GROUNDING PLANS & NOTES

SHEET NUMBER: G-1

REVISION: 1

12 NOT USED

NOT TO SCALE

11 NOT USED

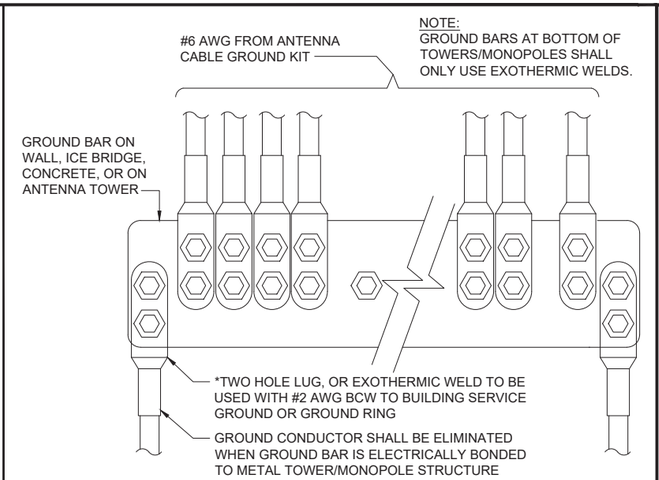
NOT TO SCALE

10 NOT USED

NOT TO SCALE

9 GROUND WIRE INSTALLATION

NOT TO SCALE



8 NOT USED

NOT TO SCALE

7 NOT USED

NOT TO SCALE

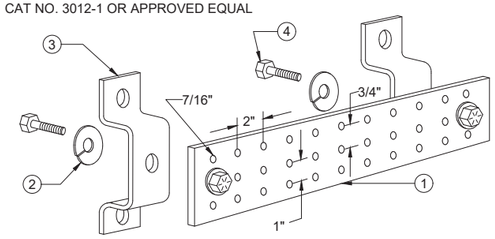
6 NOT USED

NOT TO SCALE

5 TYPICAL GROUND BAR

NOT TO SCALE

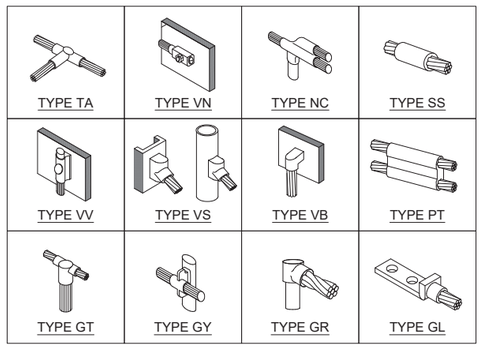
1.) COPPER GROUND BAR, 1/4"x 4"x 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR APPROVED EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2.) 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR APPROVED EQUAL
3.) 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 BAR AT ANTENNA LEVEL TO BE BONDED DIRECTLY TO TOWER STRUCTURE; NO INSULATORS USED. GROUND BAR AT BASE OF TOWER STRUCTURE TO BE ATTACHED WITH INSULATORS. CONNECTION TO TOWER STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

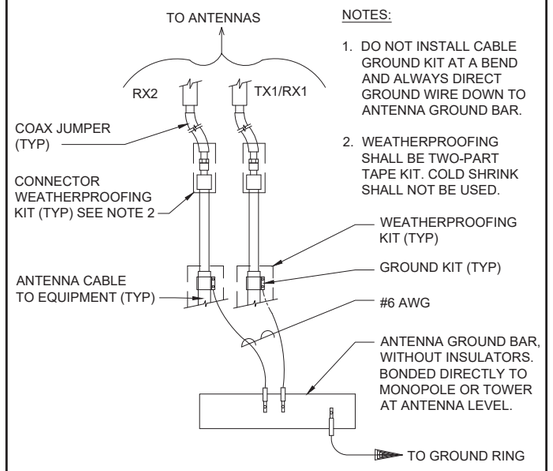
4 EXOTHERMIC CONNECTIONS

NOT TO SCALE



3 CABLE GROUND CONNECTIONS

NOT TO SCALE

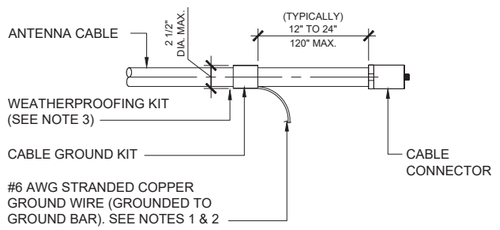


NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHERPROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

2 CABLE GROUND KIT

NOT TO SCALE



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.

1 NOT USED

NOT TO SCALE

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30'-5" ROOFTOP

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1	08/12/21	CAP	100% CONSTRUCTION	PD

SHEET TITLE:
GROUNDING DETAILS

SHEET NUMBER: G-2

REVISION: 1

GENERAL NOTES:

1. 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.
3. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN SIMILAR CONSTRUCTION.
4. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. IF OBSTRUCTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD PRIOR TO CONTINUING WORK.
5. 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/OR 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.
7. INSTALLATION SHALL NOT INTERFERE NOR DENY ADEQUATE ACCESS TO OR FROM ANY EXISTING OR PROPOSED OPERATIONAL AND SAFETY EQUIPMENT.
8. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION. CONTACT INFINIGY ENGINEERING IF ANY DISCREPANCIES EXIST.

STEEL CONSTRUCTION NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION, FOR THE DESIGN AND FABRICATION OF STEEL COMPONENTS.
2. 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 KSI, 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 E70XX 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.
9. 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.
12. REMOVAL/REPLACEMENT OF STRUCTURAL MEMBERS SHALL BE DONE ONE MEMBER AT A TIME. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURAL INTEGRITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

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.
2. 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:

1. FRP PLATES, SHAPES, BOLTS AND NUTS (STUD/NUT ASSEMBLIES) SHALL CONFORM TO ASTM D638, 695, 790. PLATES AND SHAPES TO BE FY = 5.35 KSI LW (SAFETY FACTOR OF 8), .945 KSI CW (SAFETY FACTOR OF 8) 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.
3. 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.
4. 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.
7. 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.
9. STUD/NUT ASSEMBLIES SHOULD BE BONDED BY APPLYING BONDING AGENT TO ENTIRE NUT AND EXPOSED STUD.
10. 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.
14. EACH FRP PANEL TO BE IDENTIFIED WITH LARR#25536 AND FIBERGRATE COMPOSITE STRUCTURAL LABEL.
15. FRP MATERIAL TO BE CLASSIFIED AS CC1 OR BETTER, AND HAVE MAXIMUM FLAME SPREAD OF 50.
16. ALL DESIGN AND CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH LOS ANGELES RESEARCH REPORT RR25536, DATED FEBRUARY 1, 2016.
17. 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:

1. ALL EXISTING WOOD SHAPES ARE ASSUMED TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN.
2. ALL PROPOSED WOOD SHAPES ARE TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN. U.N.O.
3. 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.

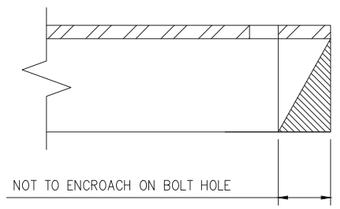
MASONRY CONSTRUCTION NOTES:

1. 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.
2. 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.

SPECIAL INSPECTIONS NOTES:

1. 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.
      - THE SPECIAL INSPECTOR MUST VERIFY THAT THE STRUCTURE IS BUILT IN ACCORDANCE WITH THE APPROVED DESIGN DOCUMENTS.
2. 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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DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	04/16/21	EPR	PRELIMINARY REVIEW	PD
B	05/18/21	EPR	REVISED PER COMMENTS	PD
0	08/10/21	CAP	100% CONSTRUCTION	PD
1	08/20/21	CAP	100% CONSTRUCTION	PD

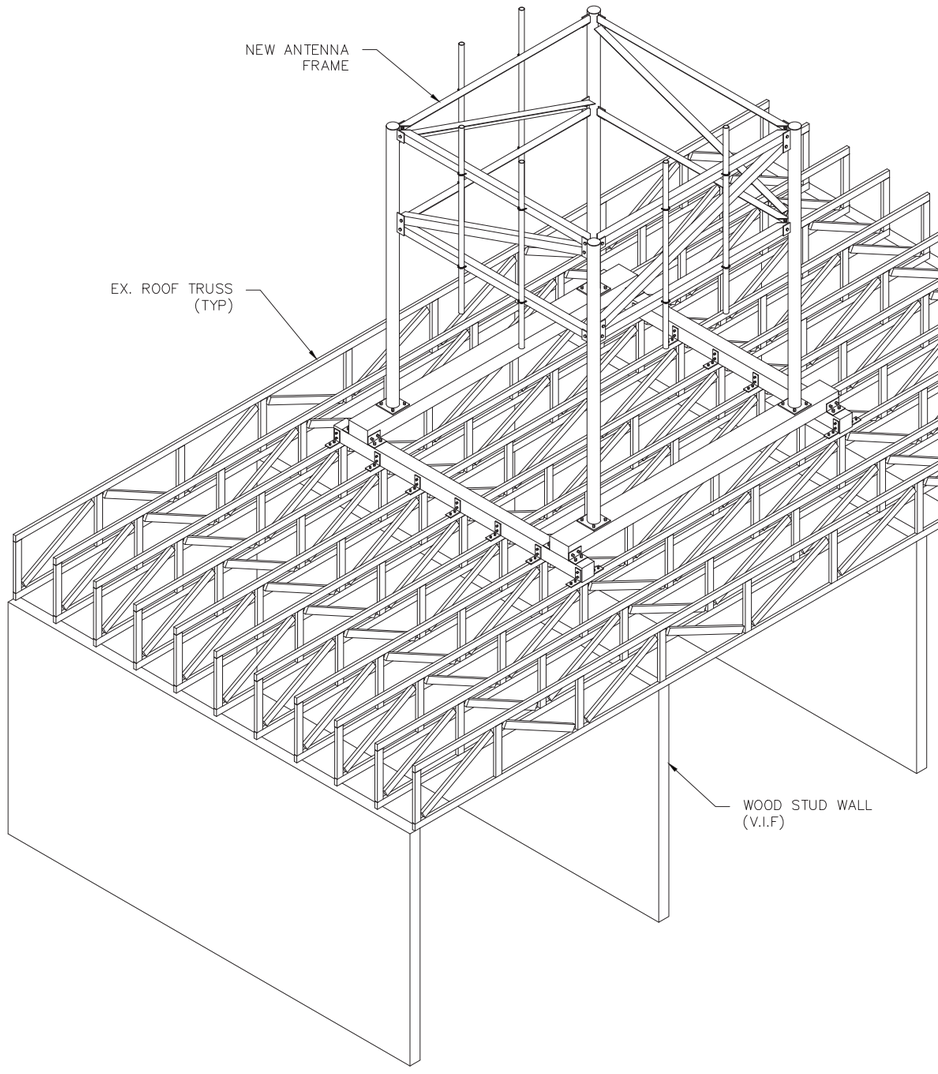
08/23/21

SHEET TITLE:
GENERAL NOTES

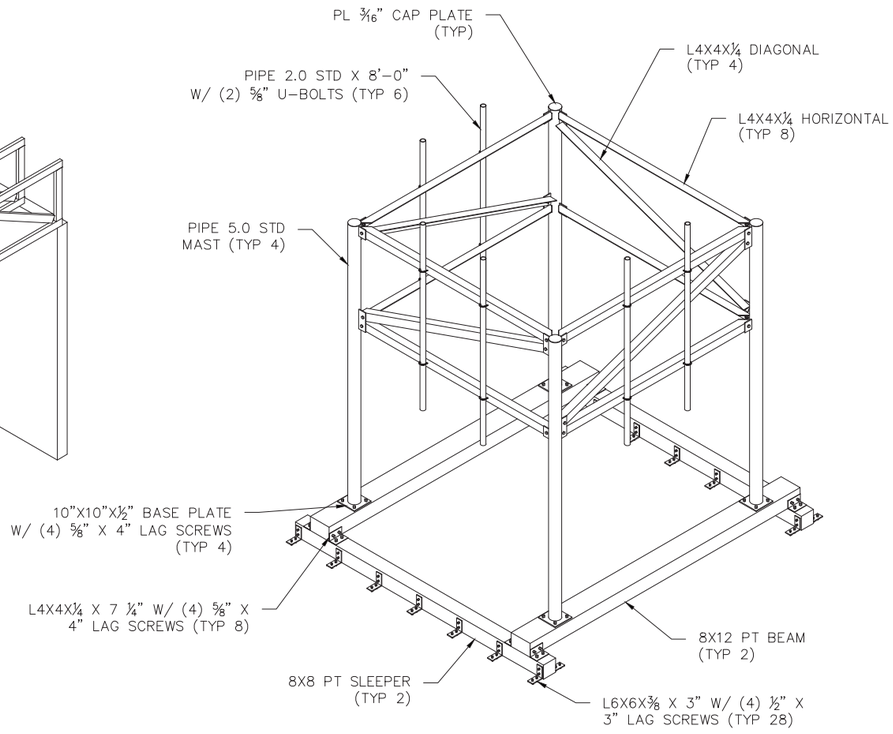
SHEET NUMBER: S-1

REVISION: 1

PANEL ANTENNAS AND RADIO UNITS ARE NOT SHOWN FOR CLARITY



1 ISOMETRIC VIEW
SCALE: NOT TO SCALE



2 ISOMETRIC VIEW (ANTENNA FRAME)
SCALE: NOT TO SCALE

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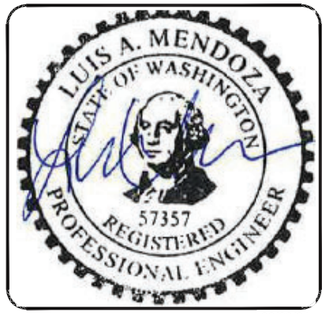


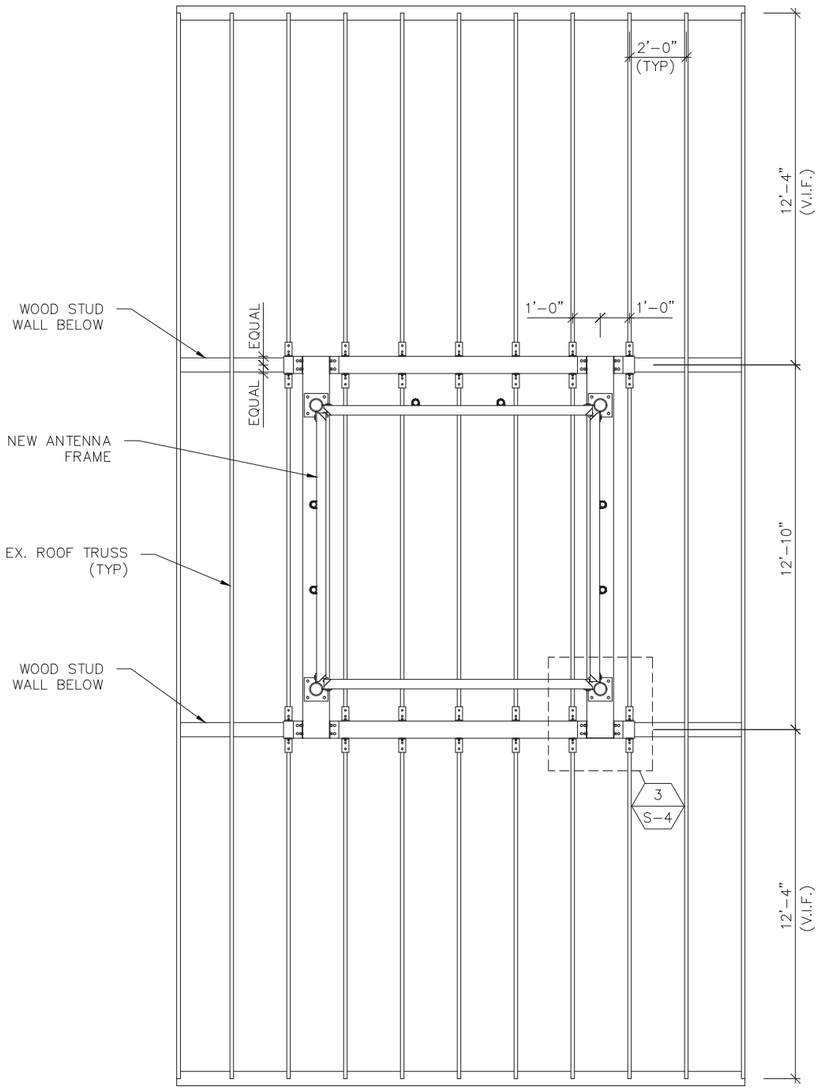
08/23/21

SHEET TITLE:
ANTENNA FRAME DESIGN

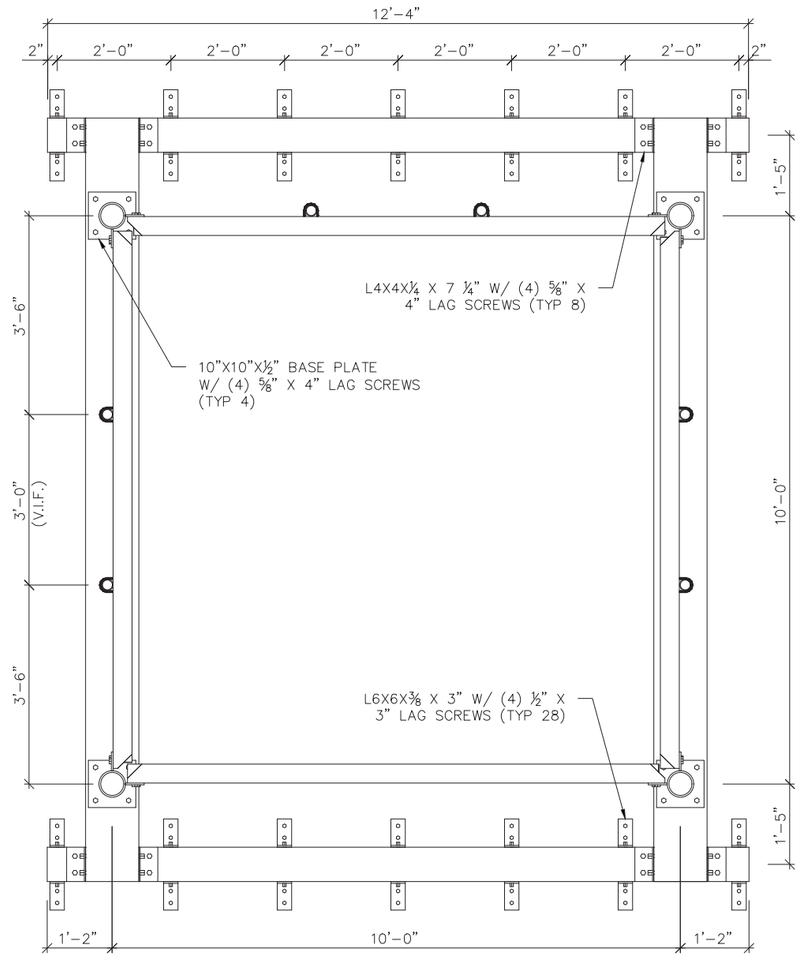
SHEET NUMBER: S-2

REVISION: 1

GC TO INSTALL THE ANTENNA FRAME AND PROPOSED LOADING ABOVE THE EXISTING BUILDING BEARING WALLS. CG TO VERIFY LOCATION OF THE WALLS PRIOR TO THE INSTALLATION OF PROPOSED LOADING



1 OVERALL PLAN VIEW
-- SCALE: NOT TO SCALE NORTH



2 PLAN VIEW
-- SCALE: NOT TO SCALE NORTH

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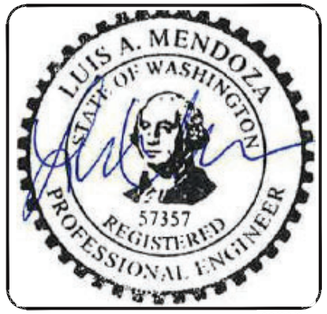
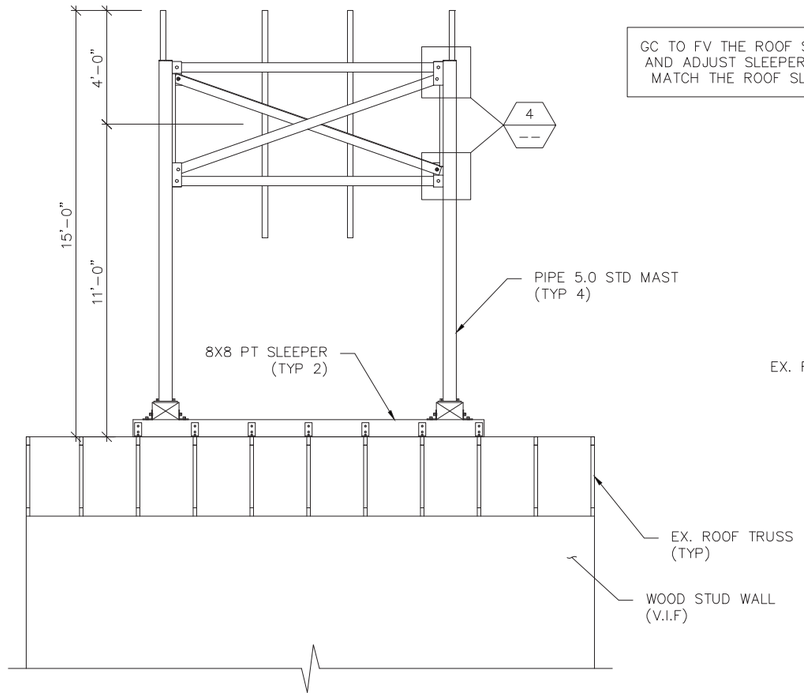


08/23/21

SHEET TITLE:
ANTENNA FRAME DESIGN

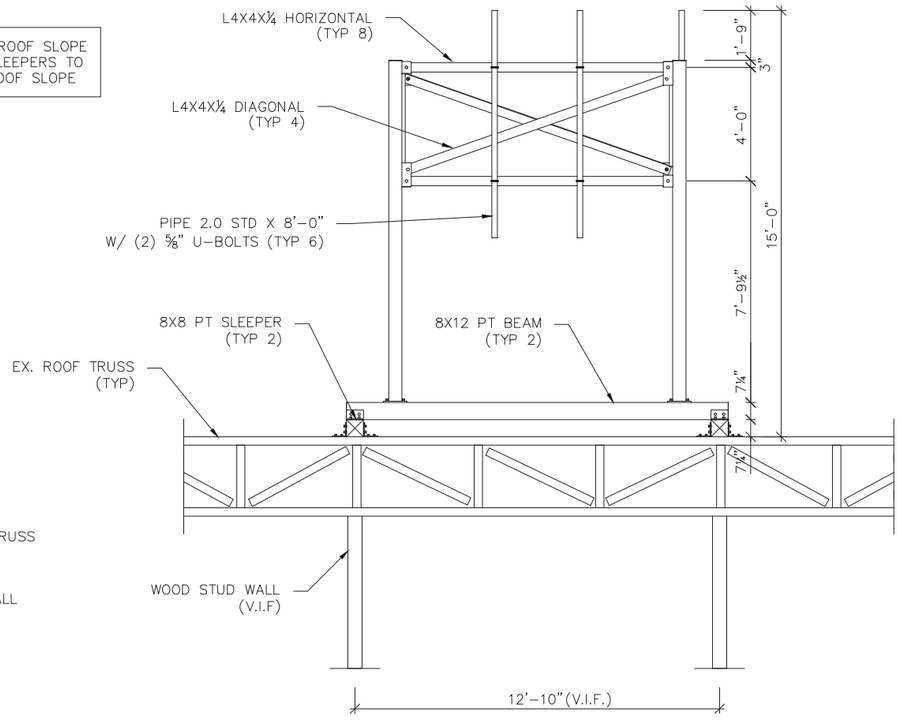
SHEET NUMBER: S-3

REVISION: 1



1 FRONT VIEW
SCALE: NOT TO SCALE

GC TO FV THE ROOF SLOPE AND ADJUST SLEEPERS TO MATCH THE ROOF SLOPE



2 SIDE VIEW
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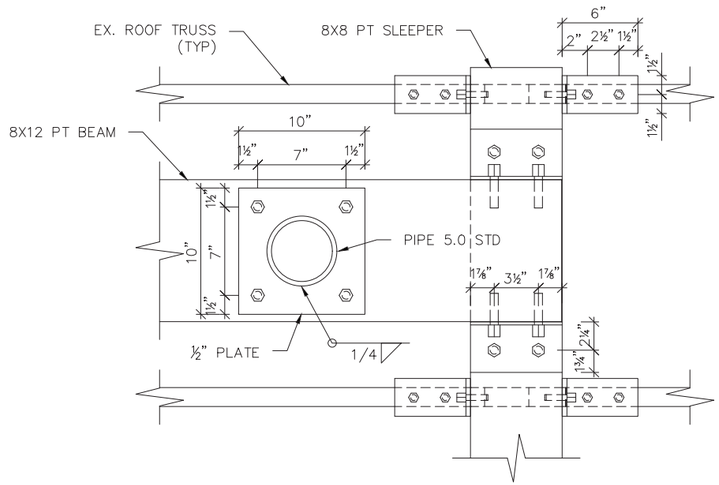

3 CONNECTION DETAIL
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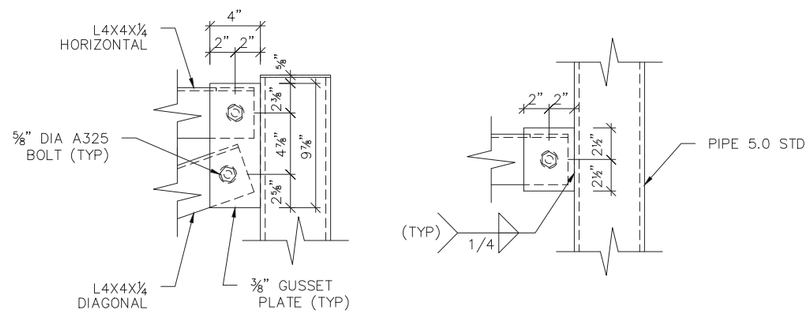

4 TYP GUSSET DETAILS
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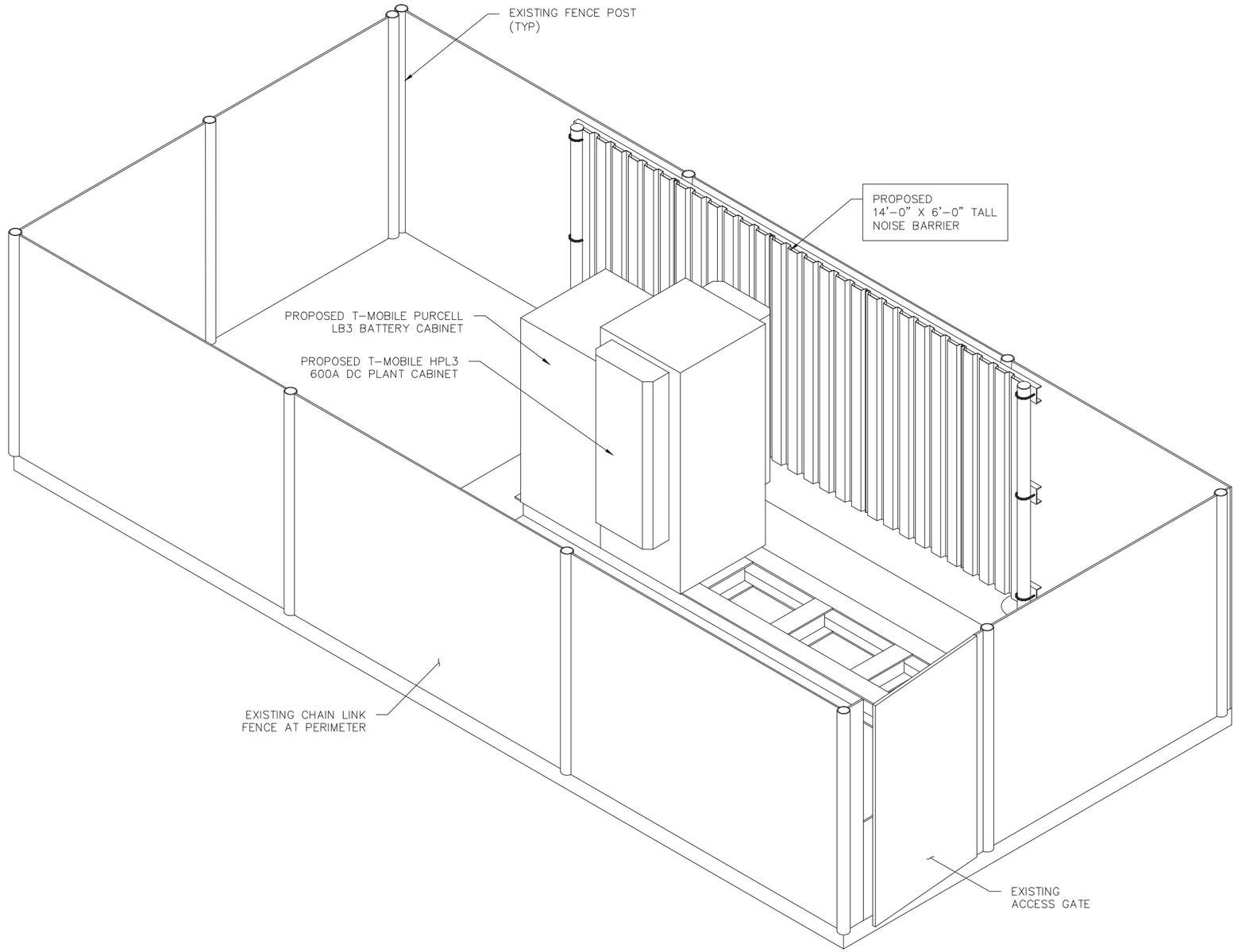
SHEET TITLE:
ANTENNA FRAME DESIGN

SHEET NUMBER: S-4

REVISION: 1



1 ISOMETRIC VIEW (NORTH WEST)
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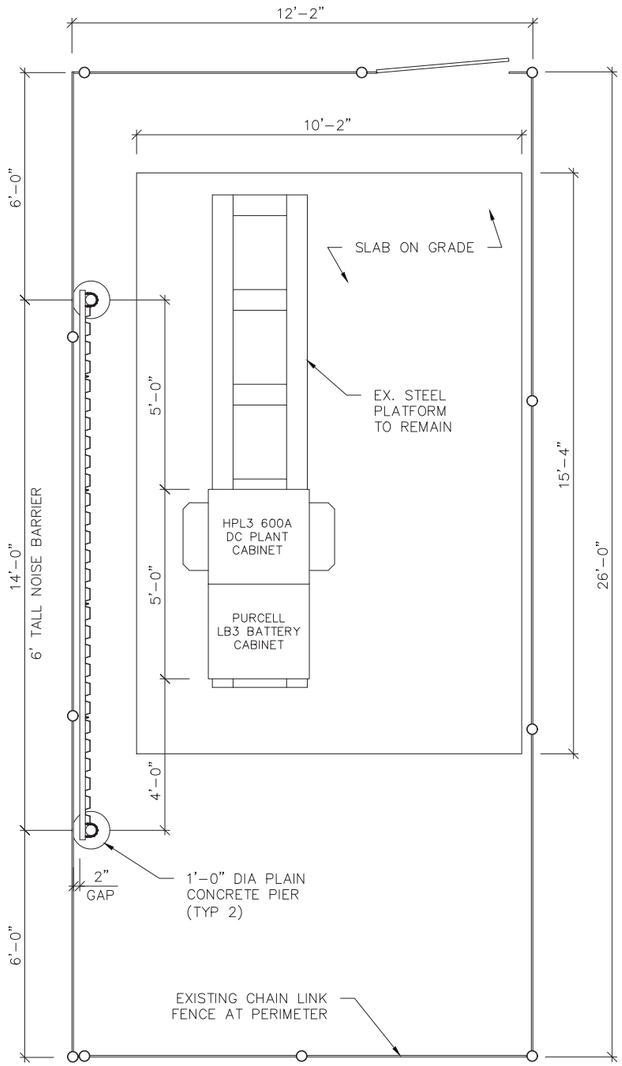
LUIS A. MENDOZA
STATE OF WASHINGTON
57357
REGISTERED
PROFESSIONAL ENGINEER

08/23/21

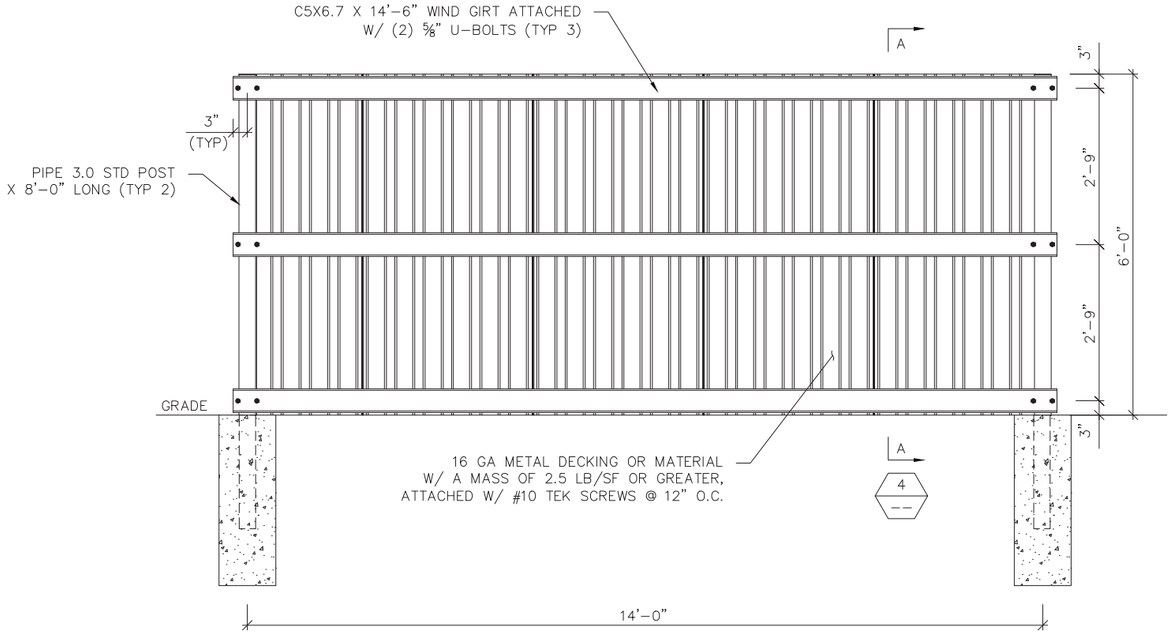
SHEET TITLE:
NOISE BARRIER
DESIGN

SHEET NUMBER: S-5

REVISION: 1



1 PLAN VIEW
SCALE: NOT TO SCALE NORTH



2 NOISE BARRIER (FRON VIEW)
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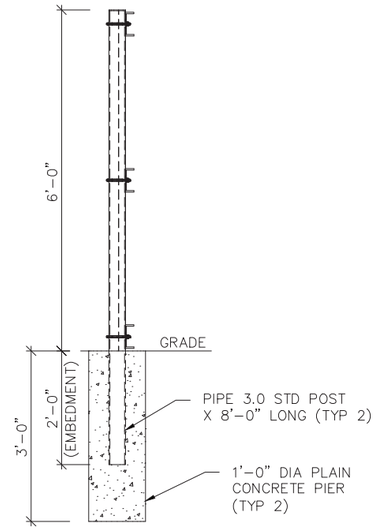

3 SIDE VIEW
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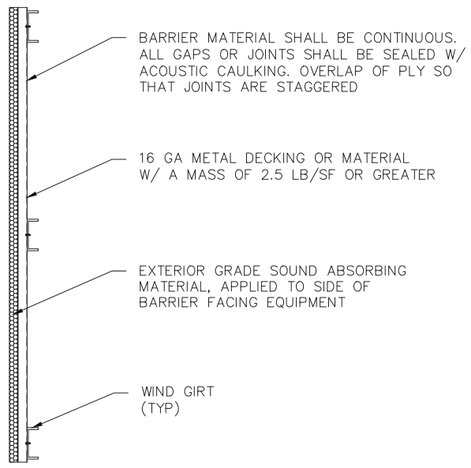

4 SECTION A-A
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SHEET TITLE:
NOISE BARRIER DESIGN

SHEET NUMBER: S-6

REVISION: 1