



ENGINEERING

2019 CALIFORNIA BUILDING CODE
2019 CALIFORNIA FIRE CODE
2019 CALIFORNIA MEP CODE
2019 CALIFORNIA MECHANICAL CODE
2019 CALIFORNIA PLUMBING CODE
2019 CALIFORNIA ELECTRICAL CODE
2019 CALIFORNIA ENERGY CODE
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
TIA-222-H

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

SITE INFORMATION

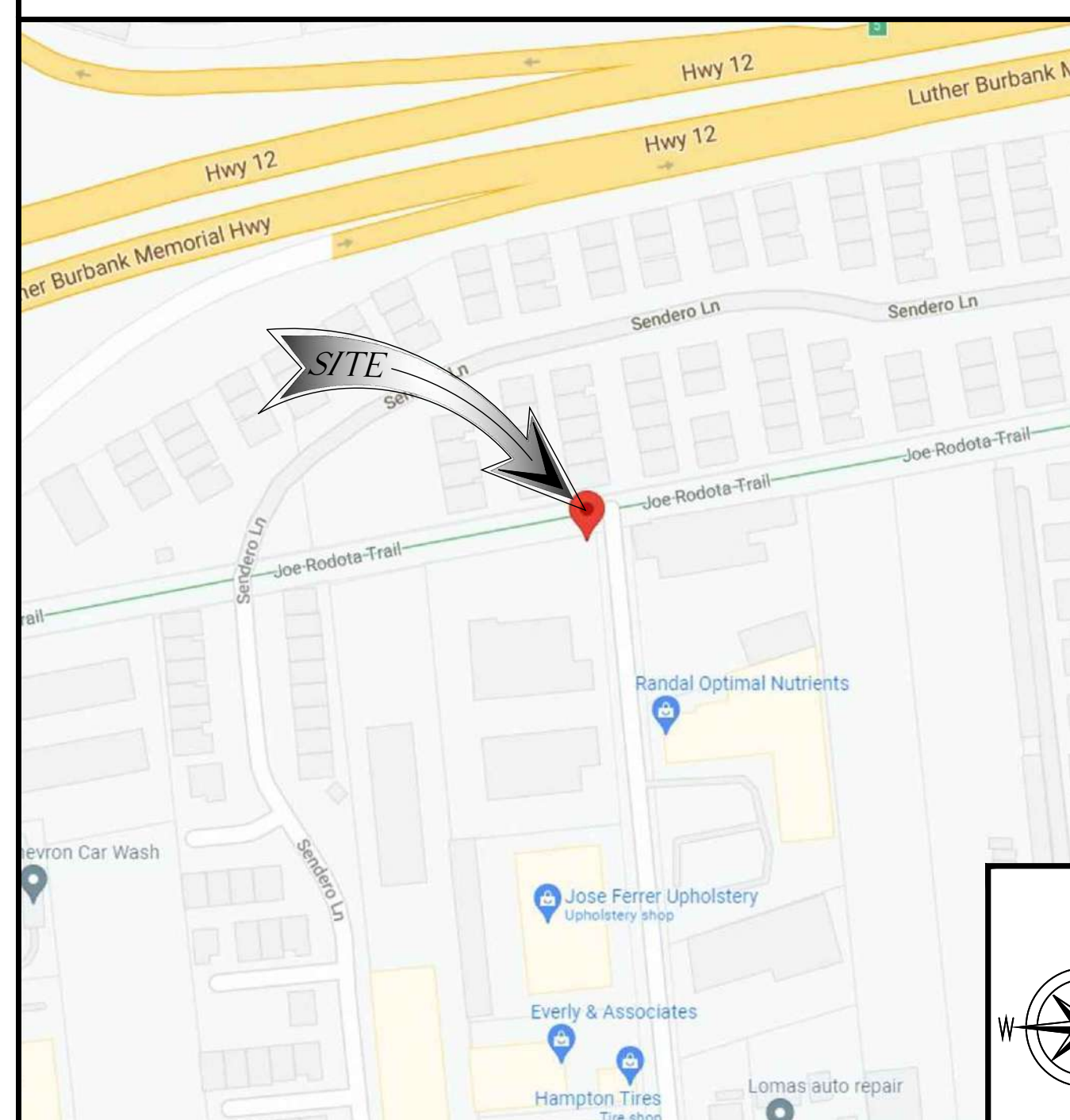
SITE NAME:	HAMPTON
SITE #:	CCL00357
SITE ADDRESS:	1594 HAMPTON SANTA ROSA, CA 95407
COUNTY:	SONOMA
JURISDICTION:	CITY OF SANTA ROSA
PROPOSED USE:	UNMANNED TELECOMMUNICATION FACILITY
APN:	125-082-009-000
CURRENT ZONING:	-
CONSTRUCTION TYPE:	II-A
STRUCTURE HEIGHT:	75'-0"
PROPERTY OWNER:	TALMADGE INVESTMENTS LLC P.O. BOX 3279 SANTA ROSA, CA 95402
TOWER OWNER:	HOOSIER TOWER LLC SITE REF: CA-1199
APPLICANT:	AT&T 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
UTILITY POWER:	PG&E
UTILITY TELEPHONE:	AT&T
LATITUDE:	38.4300781
LONGITUDE:	-122.7382650
LAT/LONG TYPE:	NAD 83
GROUND ELEVATION:	± 129.8" AMSL

FA CODE: 10071958 SITE ID: CCL00357
USID:79583
SITE NAME: HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
SITE TYPE: 75'-0" MONOPOLE
OUTDOOR EQUIPMENT

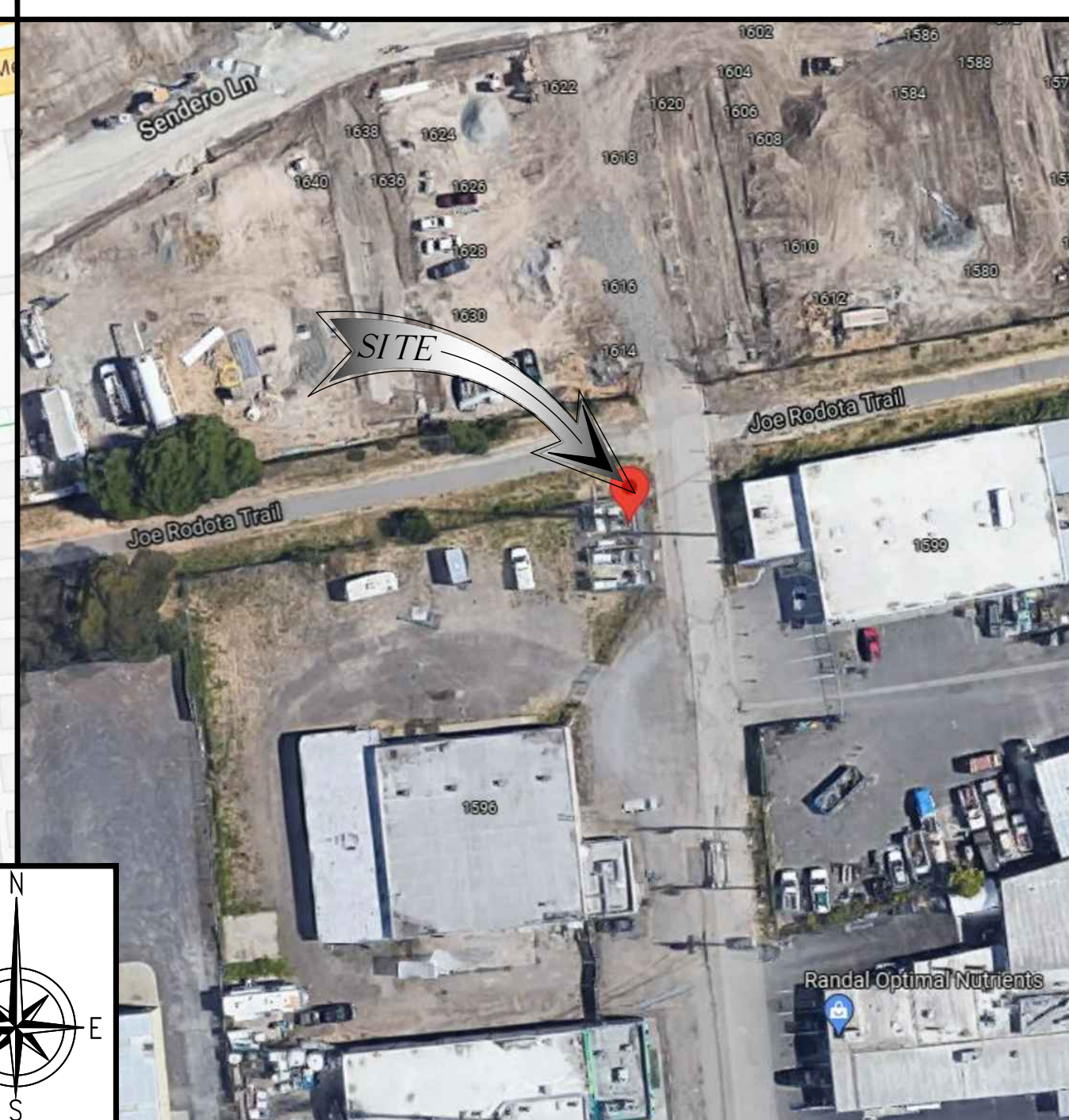
PACE ID	TECHNOLOGIES	PTN
MRSFR087387	LTE 6C	3705A115FS
MRSFR087404	BWE TOWER TOP RRH ADD	3705A1163L
MRSFR087395	5G NR 1SR CBAND	3705A1153S
MRSFR087380	5G NR 1SR CBAND	3705A114W1
MRSFR087391	BWE SOFTWARE CARRIER	3705A1162N
MRSFR087378	5G NR 1DR-2	3705A114R1
MRSFR087381	4TXRX ANTENNA RETROFIT	3705A115BQ
MRSFR087400	BBU ADD	3705A1169A

RFDS VER. #3.00 / DATE: 07/06/2022

VICINITY MAP



LOCAL MAP



CD DRAWING

IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

PROJECT DESCRIPTION

AT&T MOBILITY PROPOSES TO MODIFY AN (E) WIRELESS INSTALLATION. THE SCOPE WILL CONSIST OF THE FOLLOWING:

AT ANTENNA LEVEL:

- REMOVE (6) (E) PANEL ANTENNAS, (2) PER SECTOR (6) TOTAL
- REMOVE (1) (E) 6'-0" FRP PANEL FROM (E) MONOPOLE
- INSTALL (12) (N) PANEL ANTENNAS, (4) PER SECTOR (12) TOTAL
- INSTALL (3) (N) RRUS 4449 B5/B12A, (1) PER SECTOR (3) TOTAL
- INSTALL (3) (N) RRUS 4426 B66, (1) PER SECTOR (3) TOTAL
- INSTALL (1) (N) COLLAR MOUNT AT (N) 45'-6" RAD CENTER
- INSTALL (1) (N) DUAL POLE MOUNT AT (N) 62'-0" RAD CENTER
- INSTALL (2) (N) DC-9 SURGE SUPPRESSOR (1) FULLY LOADED, (1) WITH (2) POWER TRUNKS)

AT EQUIPMENT LEVEL:

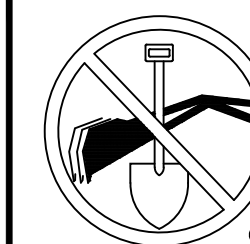
- REMOVE (1) (E) RBS 3106 CABINET
- REMOVE (3) (E) RRUS-11 B12
- SWAP (3) (E) STRINGS OF 150AH BATTERIES WITH (3) (N) STRING OF 180 AH BATTERIES INSIDE (E) RBA 72 CABINET
- INSTALL (1) (N) PURCELL CABINET STACKED ON TOP OF (E) PURCELL CABINET
- INSTALL (1) (N) BATTERY CABINET WITH (4) (N) STRINGS OF 180AH BATTERIES
- INSTALL (8) (N) RECTIFIERS INSIDE (E) POWER PLANT
- INSTALL (1) (N) DC12 ON RACK NEAR EXISTING DC-12
- INSTALL (3) (N) RRUS 2012 B29 ON EXISTING H-FRAME
- INSTALL (1) (N) BASEBAND 6630 IN (N) PURCELL CABINET
- INSTALL (1) (N) BASEBAND 6648 IN (N) PURCELL CABINET
- INSTALL CAUTION SIGNS AS REQUIRED

DRAWING INDEX

[illegible]

**DO NOT SCALE
DRAWINGS**

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



**UNDERGROUND
SERVICE ALERT OF
CALIFORNIA
811**

CALL 48 HOURS BEFORE YOU DIG
(800) 227-2600

CCL00357
HAMPTON
1594 HAMPTON
TA ROSA, CA 95407
'-0" MONOPOLE



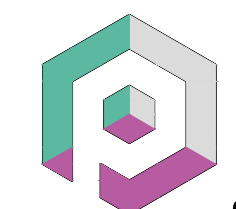
5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583



ERICSSON

4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

PLANS PREPARED BY:



Pramira
ARCHITECTURAL & ENGINEERING SERVICES

1	07/11/2022	RFDS UPDATE	GCA
0	6/23/2022	100% CDS	GCA
B	5/17/2022	95% CDS	KD
A	2/18/2022	90% CDS	RAR
REV	DATE	DESCRIPTION	INT



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SHEET TITLE

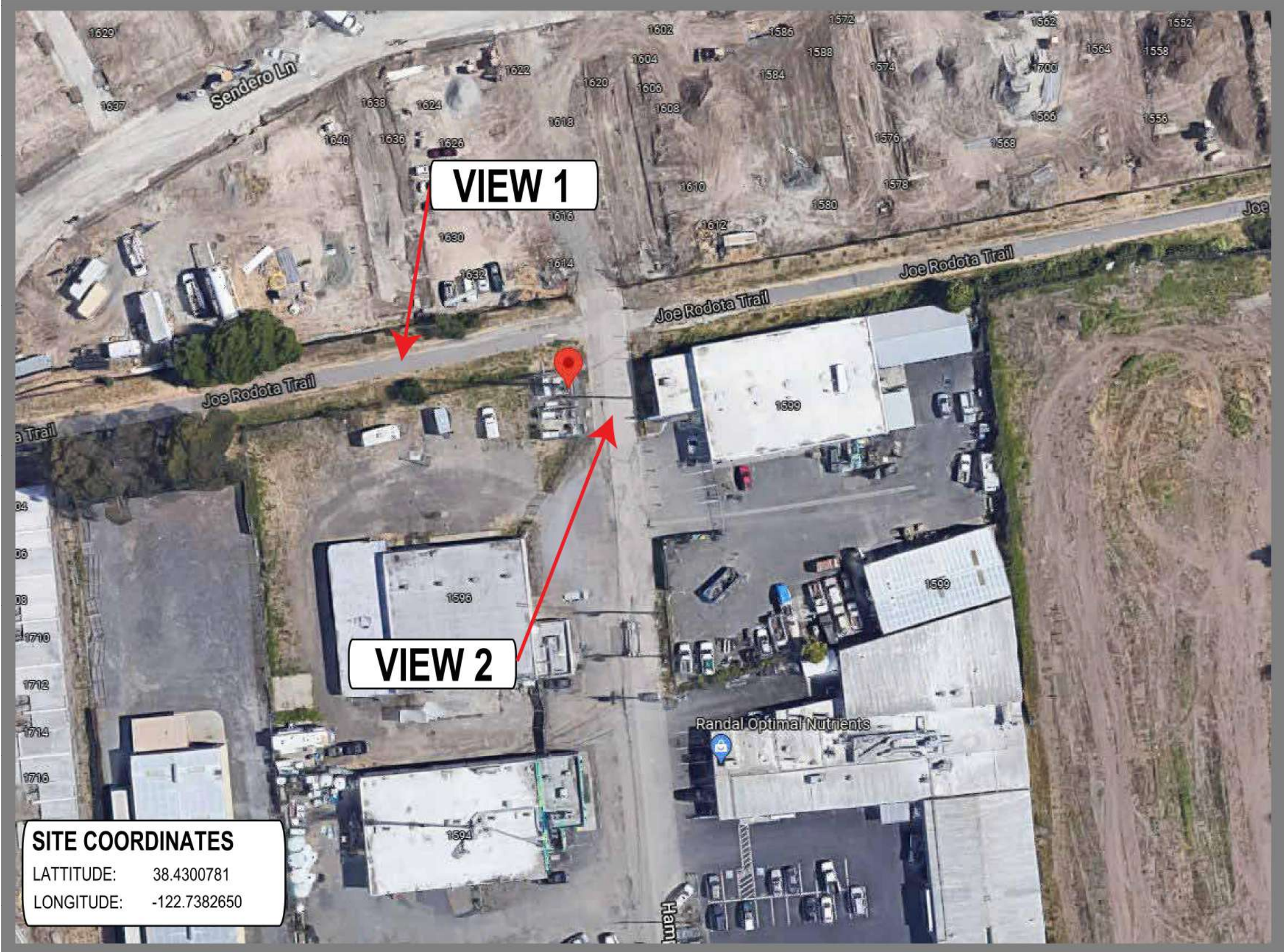
TITLE SHEET

SHEET NUMBER

T-1

SIGNAGE AND STRIPING INFORMATION		NOTES:		SIGN SHALL BE A PHENOLIC LABEL WITH WHITE BACKGROUND AND BLACK LETTERING. THE TITLE BLOCK SHALL BE A RED BACKGROUND AND 1" HIGH WHITE LETTERING.		EMERGENCY SHUT DOWN		CCL00357 HAMPTON 1594 HAMPTON SANTA ROSA, CA 95407 75'-0" MONOPOLE	
1. THE FOLLOWING INFORMATION IS A GUIDELINE WITH RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATION SHOULD BE IN CONFLICT WITH ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.		2. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1mW/cm² AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5mW/cm²		NOTE: SIGN TO BE PERMANENTLY MOUNTED AT THE FOLLOWING LOCATIONS:		FOR IMMEDIATE SHUT DOWN OF ALL RADIO FREQUENCY EMISSIONS OF THIS SITE.		1. CALL CONTACT NUMBER AND GIVE SITE IDENTIFICATION NO. AND CONTACT. CONTACT PHONE #: 1-800-832-6662 SITE IDENTIFICATION #: CCL00357	
3. IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR ROOF LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.		4. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR CANNOT BE LOCKED OR THERE IS AN EXISTING FIRE EGRESS), THEN BOTH BARRICADES AND STRIPING WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.		1. CELL SITE EQUIPMENT ROOM DOOR 2. BATTERY LOCATION WITHIN PROXIMITY OF BATTERY DISCONNECT 3. FCC (FIRE CONTROL CENTER) ROOM WITHIN PROXIMITY OF THE FIRE ALARM PANEL 4. BUILDING'S MAIN ELECTRICAL ROOM WITHIN PROXIMITY OF THE MAIN SHUTOFF 5. THE CELL SITE MAIN ELECTRICAL DISCONNECT		2. DISCONNECT POWER LOCATED ON LEFT SIDE OF THE ROOM ADJACENT TO THE DOOR. EMERGENCY SHUTDOWN SIGNAGE MOUNTED ON (E) MTS.		5001 EXECUTIVE PKWY. SAN RAMON, CA 94583	
5. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS NOT EXCEEDED AND THE AREA IS NOT PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR IS LOCKED), THEN JUST STRIPING OUT TO THE PUBLIC LIMIT WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH STRIPING.		6. ALL TRANSMIT ANTENNAS REQUIRE A (3) THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN WILL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES IN PLAIN SIGHT AND THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNAS THEMSELVES OR ON THE OUTSIDE OF THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS WILL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER WILL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.		4		1		ERICSSON	
7. PHOTOS OF ALL STRIPING, BARRICADES, AND SIGNAGE WILL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE AND WILL BE TURNED INTO THE AT&T CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE WITH FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS HATCH PATTERN. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO THAT THEY DO NOT BLOCK OR INTERFERE WITH THE OPERATION OF THE SITE AND SHALL BE PAINTED WITH FADE RESISTANT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED AND SHALL PROVIDE THE AT&T CONSTRUCTION PROJECT MANAGER WITH A DETAILED SHOP DRAWING OF EACH BARRICADE.		8. ALL REQUIRED SIGNAGE WILL BE INSTALLED AS NEEDED AND FIELD VERIFIED.		TYPICAL MULTI-LANGUAGE SIGN		EMERGENCY SHUT DOWN SIGNAGE		4120 DUBLIN BLVD STE 450 DUBLIN, CALIFORNIA 94568	
				NOTICE		CAUTION		PLANS PREPARED BY:	
				Radio frequency fields beyond this point may exceed the FCC general public exposure limit.		On this tower: Radio frequency (RF) fields near some antennas <i>may exceed</i> the FCC Occupational Exposure Limits.		Pramira	
				Obey all posted signs and site guidelines for working in radio frequency environments.		Contact AT&T at 800-638-2822, option 9 and 3, and follow their instructions prior to performing maintenance or repairs beyond this point.		ARCHITECTURAL & ENGINEERING SERVICES	
				In accordance with Federal Communication Commission rules on radio frequency emissions 47 CFR 1.1307 (b).		Personnel climbing this tower should be trained for working in RF environments and use a personal RF monitor if working near active antennas.			
				SITE NO.: CCL00357		CCL00357		1	
				NOTICE SIGN		CAUTION 2B SIGN		2	
				5		NOTES:		L	
				MULTIPLE SIGNS INSTALLED AT EACH RF STRIPING ZONE.		CAUTION		AT&T operates antennas at this site.	
				INFORMATION		AT&T operates antennas at this site.		In The Striped Area you are entering an area where radio frequency (RF) fields <i>may exceed</i> the FCC Occupational Exposure Limits.	
				ACTIVE ANTENNAS ARE MOUNTED		Follow safety guidelines for working in an RF environment.		Contact AT&T at 800-638-2822, option 9 and 3, and follow their instructions prior to performing maintenance or repairs within the striped area.	
				ON THE OUTSIDE FACE OF THIS BUILDING		CCL00357		CCL00357	
				INFORMATION SIGN 1-2		T		L	
				ON THIS STRUCTURE		STAY BACK A MINIMUM OF 3 FEET FROM THESE ANTENNAS		CIVIL	
				CONTACT AT&T AT 800-638-2822 & FOLLOW THEIR INSTRUCTIONS PRIOR TO PERFORMING ANY MAINTENANCE OR REPAIRS CLOSER THAN 3 FEET FROM THE ANTENNAS.		THIS IS AT&T SITE		C	
				THIS IS AT&T SITE		CCL00357		90995	
				INFORMATION SIGN 1-1		A		STATE OF CALIFORNIA	
				N.T.S		B		IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.	
				INFORMATION SIGN 1-2		SHEET TITLE		RF SIGNAGE	
				N.T.S		SHEET NUMBER		T-2	
SIGNAGE AND STRIPING INFORMATION		7		INFORMATION SIGN		6		CAUTION SIGN - RF STRIPING AREA	
								3	

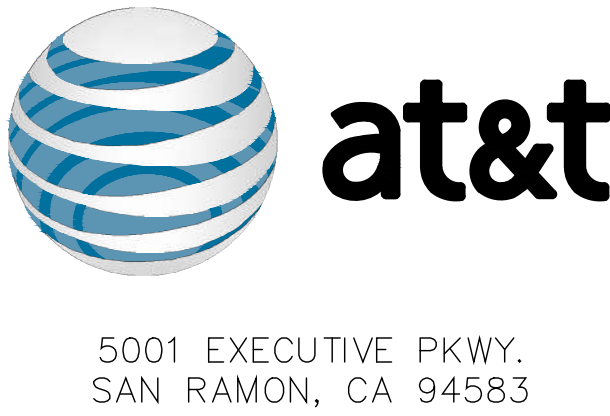
SHOT MAP
AT&T NODE: CCL00357
PROJECT NAME: HAMPTON



CCL00357
HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407



CCL00357
HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE



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SHEET TITLE

PHOTOSIMS

SHEET NUMBER

T-3



EXISTING



EXISTING



PROPOSED



PROPOSED

CCL00357
HAMPTON
11594 HAMPTON
SANTA ROSA, CA 95407

VIEW 1: LOOKING SOUTH WEST ALONG
JOE RODOTA TRAIL

2552 WALNUT AVE, SUITE 200A
TUSTIN, CA 92780

CCL00357
HAMPTON
11594 HAMPTON
SANTA ROSA, CA 95407

VIEW 2: LOOKING NORTH EAST ALONG
HAMPTON WY

2552 WALNUT AVE, SUITE 200A
TUSTIN, CA 92780

CCL00357
HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE

5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583

4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

PLANS PREPARED BY:

ARCHITECTURAL & ENGINEERING SERVICES

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SHEET TITLE
PHOTOSIMS

SHEET NUMBER
T-4

GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
2. CONTRACTOR SHALL CONSTRUCT SITE IN ACCORDANCE WITH THESE DRAWINGS AND CONSTRUCTION SPECIFICATIONS 80-T1196-1 REV H. THE SPECIFICATION IS THE RULING DOCUMENT AND ANY DISCREPANCIES BETWEEN THE SPECIFICATION AND THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION
3. CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK. NO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF KNOWLEDGE OF FIELD CONDITIONS
4. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS. OWNER PROVIDED MATERIALS WILL INCLUDE THE FOLLOWING, UNLESS NOTED OTHERWISE:
A) TRANSMITTER
B) RF FILTER
C) MFTS RACK
D) AUXILIARY EQUIPMENT IN MFTS RACK
E) PUMP ASSEMBLY
F) HEAT EXCHANGER
G) HOSE AND HOSE MANIFOLDS (ANY COPPER OR STEEL SECTIONS PROVIDE BY CONTRACTOR)
H) UHF ANTENNA AND MOUNTING BRACKETS, GPS ANTENNAS AND KU ANTENNAS
I) UHF COAX AND HANGERS
K) 480-208 & 208-400 ELECTRICAL TRANSFORMERS (RE: E-2 FOR SPECIALIZED TRANSFORMERS PROVIDED BY CONTRACTOR)
L) AUTOMATIC TRANSFER SWITCH AND GENERATOR
M) EQUIPMENT SHELTER (SHELTERS FURNISHED IN FACTORY W/ HVAC EQUIPMENT AND ELECTRICAL DISTRIBUTION PANEL)
N) INTEGRATED LOAD CENTER
5. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE WORK.
6. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
7. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
8. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
10. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE SUPERINTENDENT OF BUILDINGS & GROUNDS AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
12. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
13. MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING ETC. AND IMMEDIATELY REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
14. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., MUST BE CLEARLY UNDERSTOOD THAT REINFORCING STEEL SHALL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES (UNLESS NOTED OTHERWISE). LOCATIONS OF REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT.
15. REPAIR ALL EXISTING WALL SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND IN WITH ADJACENT SURFACES.
16. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.
17. KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
18. MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
19. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO APPLICABLE REGULATORY AUTHORITIES
20. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION SHALL BE IN CONFORMANCE WITH JURISDICTIONAL OR STATE AND LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL AND COORDINATED WITH LOCAL REGULATORY AUTHORITIES.
21. ALL CONSTRUCTION IS TO ADHERE TO AT&T'S INTEGRATED CONSTRUCTION STANDARDS UNLESS CALIFORNIA CODE IS MORE STRINGENT.
22. THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PERFORM THE CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARDS CODE, TITLES 19 AND 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE JURISDICTION BEFORE PROCEEDING WITH THE WORK.

ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
2. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:

A. UL - UNDERWRITERS LABORATORIES
B. NEC - NATIONAL ELECTRICAL CODE
C. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
E. SBC - STANDARD BUILDING CODE
F. NATIONAL FIRE CODES
4. DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
5. EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
6. CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
7. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
8. CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC... ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
9. MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
10. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
12. ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY AT&T.
13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
18. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
19. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS 'EXCAVATION, AND BACKFILLING.
20. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IECE.
21. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
22. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
23. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
24. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
25. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS 'NO-OXIDE A' BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
26. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 - 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.
27. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
28. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, 800 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
29. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
30. SERVICE: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.
31. TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
32. ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
33. CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM".
34. ALL BOLTS SHALL BE STAINLESS STEEL.

GROUNDING NOTES

1. COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
2. EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "I") WITH 1" HIGH LETTERS.
3. ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
4. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
5. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE.
6. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
7. WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER,THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
8. ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.
- ADDITIONAL NOTES:
9. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
10. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #2 GROUND WIRES AND CONNECT TO SURFACE MOUNTED GROUND BUS BARS AS SHOWN. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS USING MANUFACTURERS PRACTICES. ALL UNDERGROUND WATER PIPES, METAL CONDUITS AND GROUNDS THAT ARE A PART OF THIS SYSTEM SHALL BE BONDED TOGETHER.
11. ALL GROUND CONNECTIONS SHALL BE #2 AWG U.N.O. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE SOLID TIN COATED OR STRANDED GREEN INSULATED WIRE.
12. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, 5 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE AT&T REPRESENTATIVE.
13. NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
14. BARE GROUNDING CONDUCTOR SHALL BE HARD DRAWN TINNED COPPER SIZES AS NOTED ON PLAN.
15. ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED MINIMUM 12" BELOW GRADE/FROST-LINE IN TRENCH, U.N.O., AND BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT.
16. ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.
17. ALL SUPPORT STRUCTURES, CABLE CHANNEL WAYS OR WIRE GUIDES SHALL BE BONDED TO GROUND SYSTEM AT A POINT NEAREST THE MAIN GROUNDING BUS "MGB" (OR DIRECTLY TO GROUND-RING).
18. ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:

A. BURNDY, HY-GRADE U.L. LISTED CONNECTORS FOR INDOOR USE OR AS APPROVED BY AT&T PROJECT MANAGER.

B. CADWELD, EXOTHERMIC WELDS (WELDED CONNECTIONS).

C. TWO - (2) HOLE TINNED COPPER COMPRESSION (LONG BARREL) FITTINGS (BUS BAR CONNECTIONS).

D. ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES).

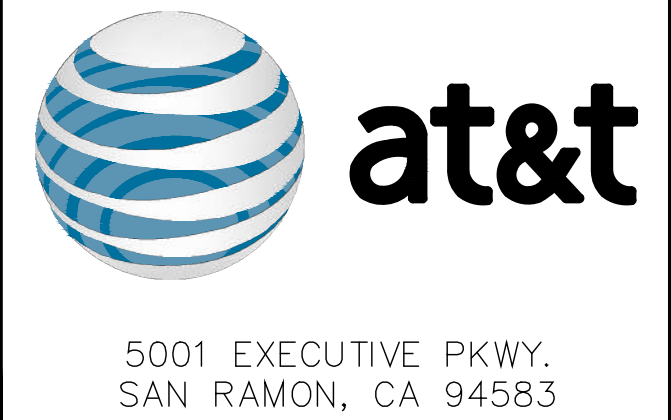
E. PRIOR TO ANY LUG-BUSSBAR CONNECTIONS, THE BUSSBAR SHALL BE CLEANED BY USE OF "SCOTCH-BRITE" OR PLAIN STEEL WOOL AS TO REMOVE ALL SURFACE OXIDATION AND CONTAMINANTS. A COATING OF "NO-OX-ID" SHALL BE APPLIED TO THE CONNECTION SURFACES.

F. ALL CONNECTION HARDWARE SHALL BE TYPE 316 SS (NOT ATTRACTED TO MAGNETS).

G. THE GROUND RING SHALL BE INSTALLED 24" MINIMUM BEYOND ANY BUILDING DRIP LINE.

H. ELECTRICAL SERVICE EQUIPMENT GROUNDING SHALL COMPLY WITH NEC, ARTICLE 250-82 AND SHALL BOND ALL EXISTING AND NEW GROUNDING ELECTRODES: NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUND RODS, GROUND RING IF SERVICE IS WITHIN THE RADIO EQUIPMENT LOCATION, BUILDING STEEL IF APPLICABLE, COLD WATER CONNECTIONS MUST BE MADE ON THE STREET SIDE OF MAIN SHUT-OFF VALVE.

CCL00357
HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE



1	07/11/2022	RFDS UPDATE	GCA	
0	6/23/2022	100% CDS	GCA	
B	5/17/2022	95% CDS	KD	
A	2/18/2022	90% CDS	RAR	
REV	DATE	DESCRIPTION	INT	



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

SITE WORK NOTES

1. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
2. DO NOT SCALE BUILDING DIMENSIONS FROM DRAWING.
3. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
4. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
5. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE. CONTRACTOR SHALL CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION.
6. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
7. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS.
8. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
9. STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.
10. NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
11. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
12. ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
13. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO PAPERS, TRASH, WEEDS, BRUSH OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
14. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
15. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

ENVIRONMENTAL NOTES

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
2. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SILT AND EROSION CONTROL MEASURES MAINTAINED ON THE DOWNSTREAM SIDE OF SITE DRAINAGE. ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF EROSION WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
7. CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
8. SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
10. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES

FOUNDATION, EXCAVATION AND BACKFILL NOTES

1. ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL.
2. ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL. IF INADEQUATE BEARING CAPACITY IS REACHED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
4. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS. ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.
5. ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM 6"THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557.
6. NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HRS PRIOR TO BACK FILLING.
7. FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PADS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE ELEVATIONS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
8. NEWLY GRADED SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE: TYPAR-3401 AS MANUFACTURED BY "CONSTRUCTION MATERIAL 1-800-239-3841" OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENCE OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERIMETER WHICH EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED. I.E. FDOT TYPE No. 57 FOR FENCED COMPOUND; FDOT TYPE No. 67 FOR ACCESS DRIVE AREA.
9. IN ALL AREAS TO RECEIVE FILL, REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE. PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BIND WITH EXISTING/PREPARED SOIL SURFACE.
10. WHEN SUB GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED. PULVERIZE, MOISTURE-CONDITION AND/OR AERATE THE SOILS AND RECOMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.
11. IN AREAS WHICH EXISTING GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.
12. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED WITH THE CONDITION THAT ANY UNFAVORABLE AMOUNTS OF ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ANY ADDITIONAL GRAVEL RESURFACING MATERIAL AS NEEDED TO PROVIDE A FULL DEPTH COMPACTED SURFACE THROUGHOUT SITE.
13. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUB GRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUB GRADE.
14. PROTECT EXISTING GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING 'MATTIS' OR OTHER SUITABLE PROTECTION DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY. REPAIR ANY DAMAGE TO EXISTING GRAVEL SURFACING OR SUB GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTORS OPERATIONS.
15. DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/ OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
16. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.

STRUCTURAL STEEL NOTES

1. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. STEEL SECTIONS SHALL BE IN ACCORDANCE WITH ASTM AS INDICATED BELOW:
W-SHAPES: ASTM A992, 50 KSI
ANGLES, BARS CHANNELS: ASTM A36, 36 KSI
HSS SECTIONS: ASTM 500, 46 KSI
PIPE SECTIONS: ASTM A53-E, 35 KSI
2. ALL EXTERIOR EXPOSED STEEL AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC.WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
4. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE 3/4"Ø CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
5. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
6. FIELD MODIFICATIONS ARE TO BE COATED WITH ZINC ENRICHED PAINT.

CONCRETE MASONRY NOTES

1. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (FM=1,500 PS), MEDIUM WEIGHT (115 PCF).
2. MORTAR SHALL BE TYPE "S" (MINIMUM 1,800 PSI AT 28 DAYS).
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.
4. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE SOLID GROUTED.
5. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.
6. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
7. ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
8. PROVIDE INSPECTION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
9. ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
10. CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.
11. REINFORCING BARS - SEE NOTES UNDER "REINFORCING STEEL" FOR REQUIREMENTS.
12. PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
13. LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
14. NOT USED.
15. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
16. CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
17. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.
18. SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKAU OR ORGANIC MATERIAL.
19. BRICK SHALL CONFORM TO ASTM C-62 AND SHALL BE GRADE MW OR BETTER.

STRUCTURAL CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301-16, ACI 318-14 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH f_c' =2,500 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3 IN.

CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER.....2 IN.
#5 AND SMALLER & WWF1-1/2 IN.

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL3/4 IN.
BEAMS AND COLUMNS.....1-1/2 IN.
5. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE U.N.O. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
7. USE AND INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER ICC ERM# & MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.

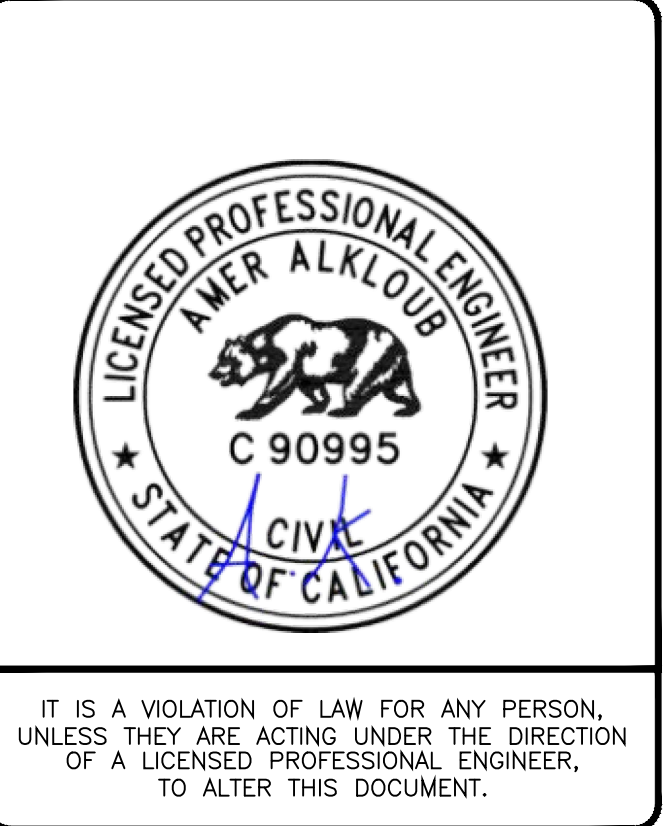
FIRE DEPARTMENT NOTES

1. THE AT&T PROJECT MANAGER'S DIRECTION. THE CONTRACTOR SHALL PROVIDE "HILTI" HIGH PERFORMANCE FIRE STOP SYSTEM # CP601S AT ALL FIRE RATED PENETRATION INSTALLED PER MANUFACTURE'S LATEST INSTALLATION SPECIFICATION.
2. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.
3. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH CFC ARTICLE 87. [CFC 8701]
4. ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY SEEN VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY [CFC 901.4.4, FHPS POLICY P-00-6]
5. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION. [CALIF. CODE OF REGS., TITLE 19, 3.08, 3.21, CEC 2501.5]
6. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEM AND WATER-FLOW SWITCHES ON AL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY MONITORED WHERE THE NUMBER OF SPRINKLERS IS A 100 OR MORE. [CBC 904.3.1, CFC 1003.3.1]
7. INSTALLATION OF FIRE ALARM SYSTEMS SHALL BE IN ACCORDANCE WITH CFC 1007.
8. AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2A-10BC SHALL BE PROVIDED WITHIN 75 FT. MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQ. FT. OR PORTION THEREOF ON EACH FLOOR [CFC 1002, UFC STANDARD 10-1, CALIF. CODE OF REGS., TITLE 19, 3.29]
9. CONTRACTOR SHALL VERIFY IN FIELD THE EXISTENCE OR INSTALLATION OF A FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2A-10BC, WITH A CHARGE STATUS ACCEPTABLE TO THE LOCAL FIRE AUTHORITY HAVING JURISDICTION (SAN DIEGO FIRE DEPARTMENT).
10. COMPLETE PLANS AND SPECIFICATIONS FOR ALARM SYSTEMS: FIRE-EXTINGUISHING SYSTEMS, INCLUDING AUTOMATIC SPRINKLERS AND OTHER FIRE-PROTECTION SYSTEMS SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL TO INSTALLATION. [CFC 100.3]

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HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE



1	07/11/2022	RFDS UPDATE	GCA	
0	6/23/2022	100% CDS	GCA	
B	5/17/2022	95% CDS	KD	
A	2/18/2022	90% CDS	RAR	
REV	DATE	DESCRIPTION	INT	



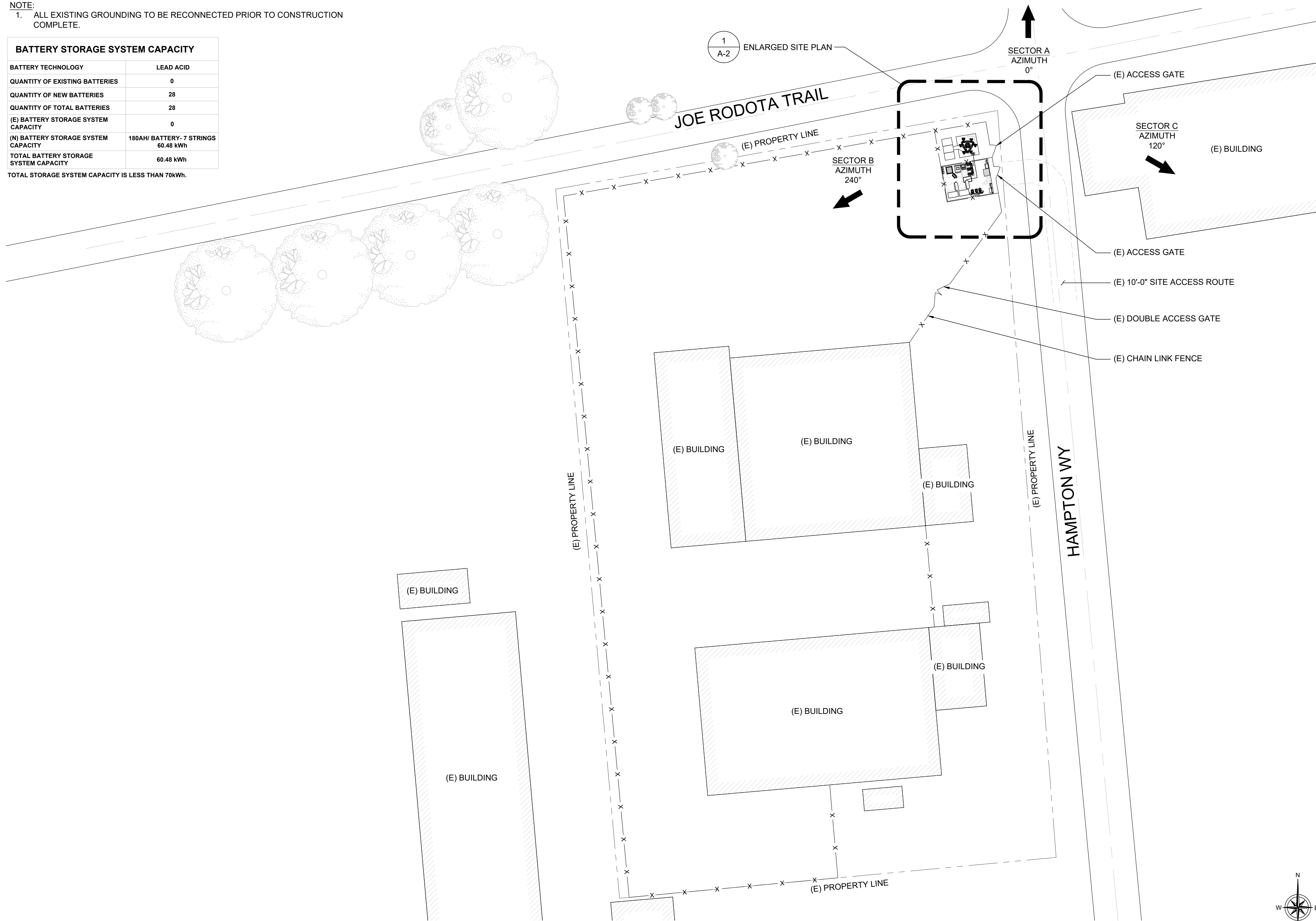
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SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-2

NOTE:
1. ALL EXISTING GROUNDING TO BE RECONNECTED PRIOR TO CONSTRUCTION COMPLETE.

BATTERY STORAGE SYSTEM CAPACITY	
BATTERY TECHNOLOGY	LEAD ACID
QUANTITY OF EXISTING BATTERIES	0
QUANTITY OF NEW BATTERIES	28
QUANTITY OF TOTAL BATTERIES	28
(E) BATTERY STORAGE SYSTEM CAPACITY	0
(N) BATTERY STORAGE SYSTEM CAPACITY	180AH/ BATTERY- 7 STRINGS 60.48 kWh
TOTAL BATTERY STORAGE SYSTEM CAPACITY	60.48 kWh
TOTAL STORAGE SYSTEM CAPACITY IS LESS THAN 70kWh.	



SITE PLAN

CCL00357
HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE

5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583

4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

PLANS PREPARED BY:

Pramira
ARCHITECTURAL & ENGINEERING SERVICES

1	07/11/2022	RFDS UPDATE	GCA
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SHEET TITLE

SITE PLAN

SHEET NUMBER

A-1

NOTE:
1. ALL EXISTING GROUNDING TO BE RECONNECTED PRIOR TO CONSTRUCTION COMPLETE.

JOE RODOTA TRAIL

(E) PROPERTY LINE

SECTOR B
AZIMUTH
240°

1&2
A-5

SECTOR A
AZIMUTH
0°

1&2
A-6

SECTOR C
AZIMUTH
120°

EXISTING AND PROPOSED
ANTENNA AREA

1&2
A-4

INSTALL (N) CAUTION SIGN AT BASE OF
MONOPOLE NEAR CLIMBING LADDER

2
T-2

(E) ACCESS GATE

EXISTING AND PROPOSED
EQUIPMENT AREA

1&2
A-3

(E) 10'-0" SITE ACCESS ROUTE

(E) ACCESS GATE

(5) (N) POWER AND (1) FIBER TRUNK FROM
(E) PULLBOX TO BASE OF MONOPOLE
±15'-0" HORIZONTAL DISTANCE

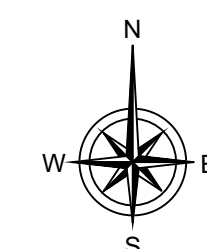
1
D-7

2
D-7

(E) CHAIN LINK FENCE

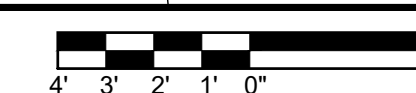
(E) PROPERTY LINE

HAMPTON WY



ENLARGED SITE PLAN

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"



1

CCL00357
HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE



5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583



4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

PLANS PREPARED BY:



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SHEET TITLE
**ENLARGED
SITE PLAN**

SHEET NUMBER

A-2

EXISTING EQUIPMENT LAYOUT KEY NOTES

- 1

(E) DIPLEXER, TYP. OF 6
- 2

(E) AT&T RBS 3106 CABINET WITH 2 STRINGS 90AH BATTERIES
- 3

(E) AT&T RBS 3106 CABINET TO BE REMOVED
- 4

(E) AT&T RBS 2106 CABINET WITH 2 STRINGS 90AH BATTERIES
- 5

(E) TELCO BOX, TYP. OF 2
- 6

(E) DC12 SURGE SUPPRESSOR
- 7

(E) H-FRAME, TYP.
- 8

(E) DISTRIBUTION PANEL
- 9

(E) GENERATOR CONNECTION BOX
- 10

(E) 20'-1" X 15'-0" CONCRETE PAD
- 11

(E) ACCESS GATE
- 12

(E) TRANSFORMER
- 13

(E) DISCONNECT
- 14

(3) (E) AT&T RRUS-4478 B14, BACK-TO-BACK MOUNTED ON (E) H-FRAME
- 15

(E) (1) DUS5216 UNITS WITHIN (2) (E) 6601 CHASSIS, (2) XMU BASEBAND IN (E) PURCELL CABINET
- 16

(E) AT&T RBA72 CABINET TO REMAIN, WITH WITH (4) (E) RECTIFIERS, AND (3) (E) STRINGS OF 150AH BATTERIES TO BE REMOVED
- 17

(3) (E) AT&T RRUS-11 B12, MOUNTED INTO (E) H-FRAME TO BE REMOVED
- 18

(3) (E) AT&T RRUS-32, BACK-TO-BACK MOUNTED ON (E) H-FRAME
- 19

(3) (E) AT&T RRUS-4426 B66, BACK-TO-BACK MOUNTED ON (E) H-FRAME
- 20

(3) (E) AT&T RRUS-4415 B25, BACK-TO-BACK MOUNTED ON (E) H-FRAME
- 21

(E) CHAIN LINK FENCE WITH BARBED WIRE
- 22

(E) GPS ANTENNA, TYP. OF 2
- 23

(E) PULLBOX
- 24

(E) TMA, TYP. OF 6

PROPOSED EQUIPMENT LAYOUT KEY NOTES

- 1

INSTALL (1) (N) AT&T 6630 BASEBAND UNIT, (1) (N) AT&T 6648 BASEBAND UNIT WITHIN (N) PURCELL CABINET
- 2

INSTALL (1) (N) PURCELL CABINET STACKED ON TOP OF (E) PURCELL CABINET
- 3

SWAP (3) (E) STRINGS OF 150AH BATTERIES WITH (3) (N) STRINGS OF 180 AH BATTERIES INSIDE (E) RBA 72 CABINET
- 4

INSTALL (8) (N) RECTIFIERS INSIDE (E) POWER PLANT
- 5

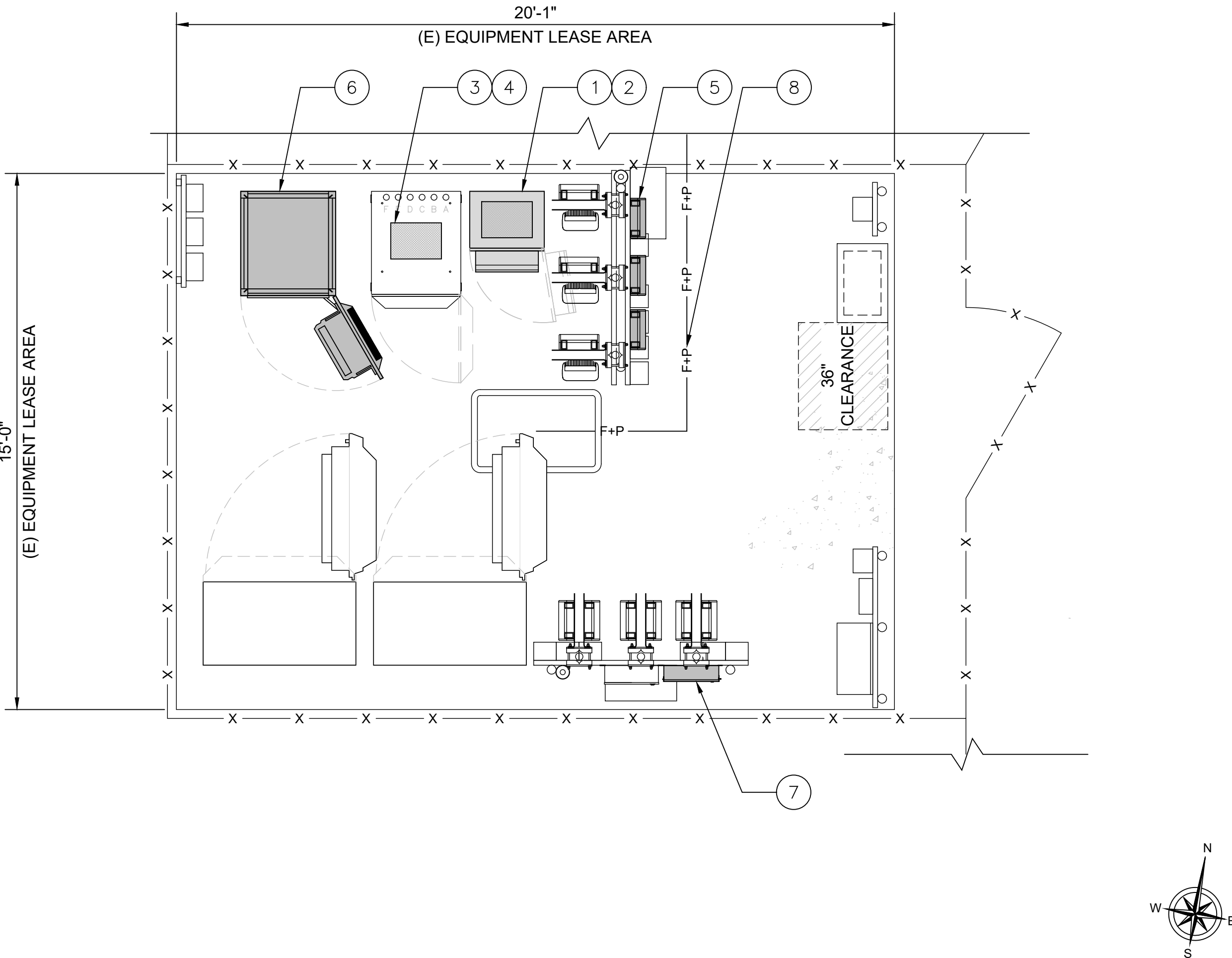
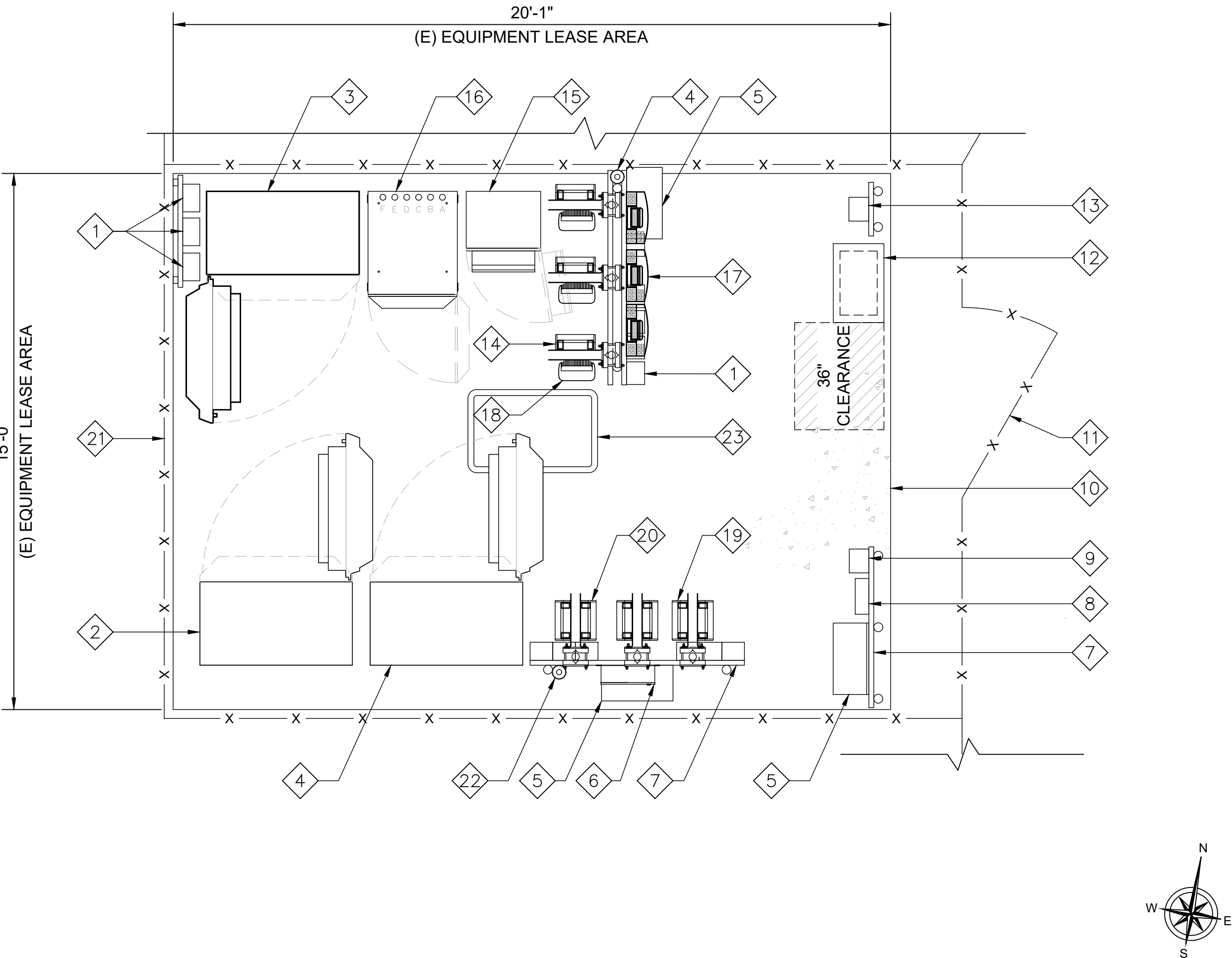
INSTALL (3) (N) RRUS 2012 B29 MOUNTED INTO (E) H-FRAME
- 6

INSTALL (1) (N) BATTERY CABINET WITH (4) (N) STRINGS OF 180AH BATTERIES
- 7

INSTALL (1) (N) DC12 ON RACK NEAR EXISTING DC-12
- 8

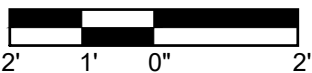
INSTALL (5) (N) POWER AND (1) FIBER TRUNK FROM (E) PULLBOX TO BASE OF MONOPOLE

NOTE:
1. ALL EXISTING GROUNDING TO BE RECONNECTED PRIOR TO CONSTRUCTION COMPLETE.



EXISTING EQUIPMENT LAYOUT

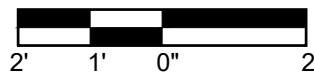
24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"



2

PROPOSED EQUIPMENT LAYOUT

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"



1

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1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE



5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583



4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

PLANS PREPARED BY:



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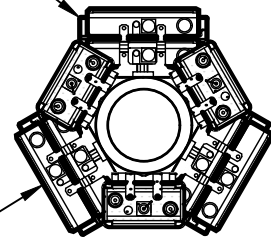
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SHEET TITLE
**EQUIPMENT
LAYOUT**

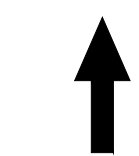
SHEET NUMBER

A-3

(E) QUAD TMA, TO BE RELOCATED,
(3) TOTAL
8 D-1 4 D-2

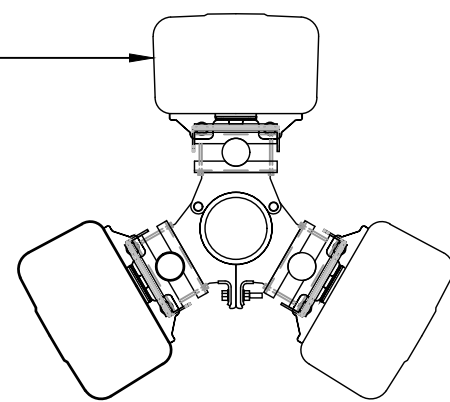


(E) DIPLEXER, TO BE RELOCATED,
(6) TOTAL
9 D-1 4 D-2



SECTOR A
AZIMUTH
0°

(E) COMMSCOPE (JAHH-65A-R3B)
PANEL ANTENNA TO BE REMOVED,
(1) PER SECTOR (3) TOTAL
1 D-1 1 D-2



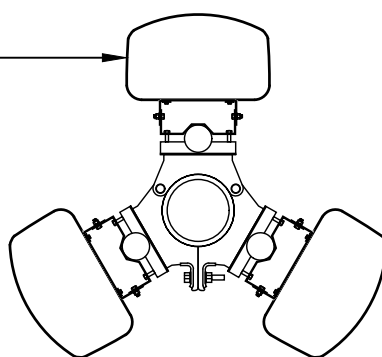
SECTOR B
AZIMUTH
240°

@ 57'-0" RAD CENTER

SECTOR C
AZIMUTH
120°

SECTOR A
AZIMUTH
0°

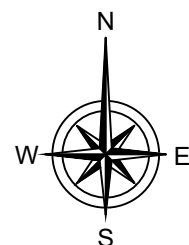
(E) COMMSCOPE (SBNHH-1D65A)
PANEL ANTENNA TO BE REMOVED,
(1) PER SECTOR (3) TOTAL
2 D-1 1 D-2



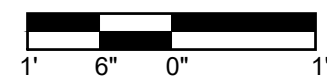
SECTOR B
AZIMUTH
240°

@ 51'-0" RAD CENTER

SECTOR C
AZIMUTH
120°



24"x36" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0"



2

PROPOSED ANTENNA LAYOUT

NOTE:
1. ALL EXISTING GROUNDING TO BE RECONNECTED
PRIOR TO CONSTRUCTION COMPLETE.

(N) ERICSSON (AIR6449 B77D)
PANEL ANTENNA MOUNTED ONTO
(N) PIPE MOUNT, (1) PER SECTOR (3) TOTAL
1 D-2 3 D-5

B1

SECTOR A
AZIMUTH
0°

A1

SECTOR A
AZIMUTH
0°

TYP. ALL SECTORS
8"

(N) DC-9 SURGE SUPPRESSOR
(2) TOTAL
4 D-6

SECTOR B
AZIMUTH
240°

B2

SECTOR C
AZIMUTH
120°

TYP. ALL SECTORS
2'-0"

TYP. ALL SECTORS
3'-4"

@ 62'-0" RAD CENTER

(N) ERICSSON CBAND AIR ANTENNA
MOUNTED ONTO (N) PIPE MOUNT,
(1) PER SECTOR (3) TOTAL
1 D-2 4 D-5

(N) LOCATION OF (E) DIPLEXER BEHIND
(N) ANTENNA, (2) PER SECTOR (6) TOTAL
9 D-1 4 D-2

(N) LOCATION OF (E) QUAD TMA BEHIND
(N) ANTENNA, (1) PER SECTOR (3) TOTAL
8 D-1 4 D-2

SECTOR A
AZIMUTH
0°

A3

SECTOR B
AZIMUTH
240°

B3

SECTOR C
AZIMUTH
120°

@ 57'-0" RAD CENTER

(N) QUINTEL (QD4616-7) PANEL
ANTENNA MOUNTED ONTO (E) PIPE
MOUNT, (1) PER SECTOR (3) TOTAL
1 D-2 1 D-5

SECTOR A
AZIMUTH
0°

A4

(N) QUINTEL (QD4612-3D) PANEL ANTENNA
MOUNTED ONTO (E) PIPE MOUNT,
(1) PER SECTOR (3) TOTAL
1 D-2 2 D-5

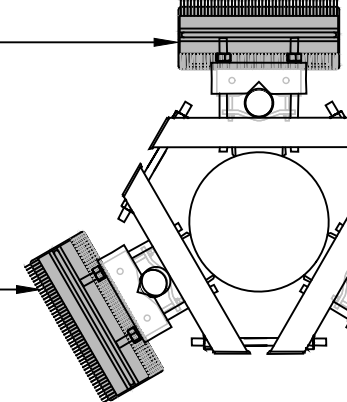
SECTOR B
AZIMUTH
240°

B4

SECTOR C
AZIMUTH
120°

@ 51'-0" RAD CENTER

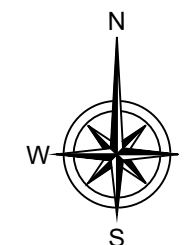
(N) RRUS-4426 B66, MOUNTED TO
(N) COLLAR MOUNT (1) PER
SECTOR (3) TOTAL
6 D-1 2 D-2



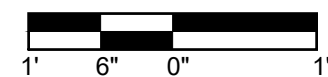
(N) COLLAR MOUNT AT 45'-6" RAD
CENTER, (1) TOTAL
3 D-7

(N) RRUS-4449 B5/B12, MOUNTED TO
(N) COLLAR MOUNT (1) PER SECTOR
(3) TOTAL
2 D-2 5 D-5

@ 45'-6" RAD CENTER



24"x36" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0"



1

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HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE



5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583



4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

PLANS PREPARED BY:



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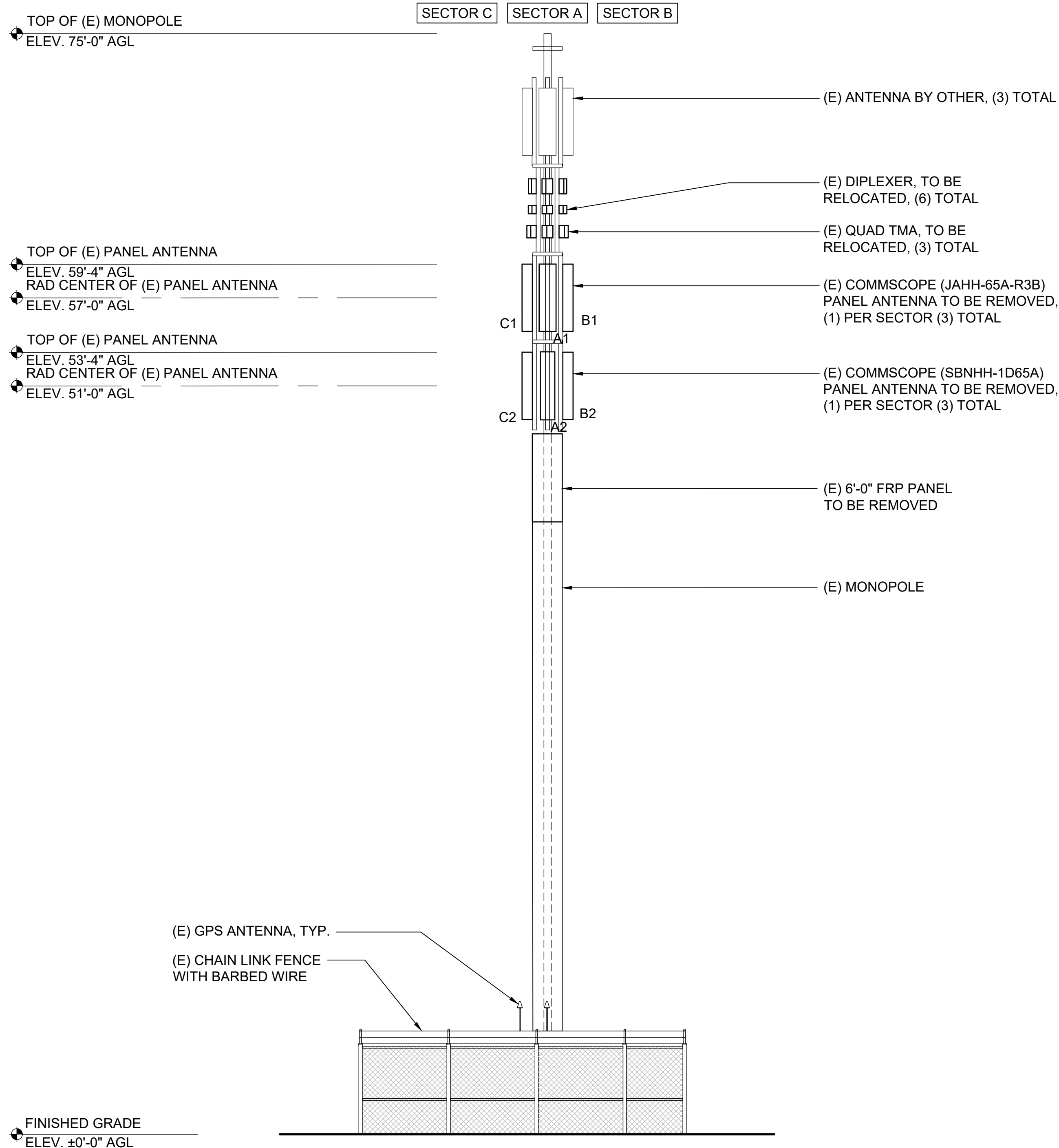


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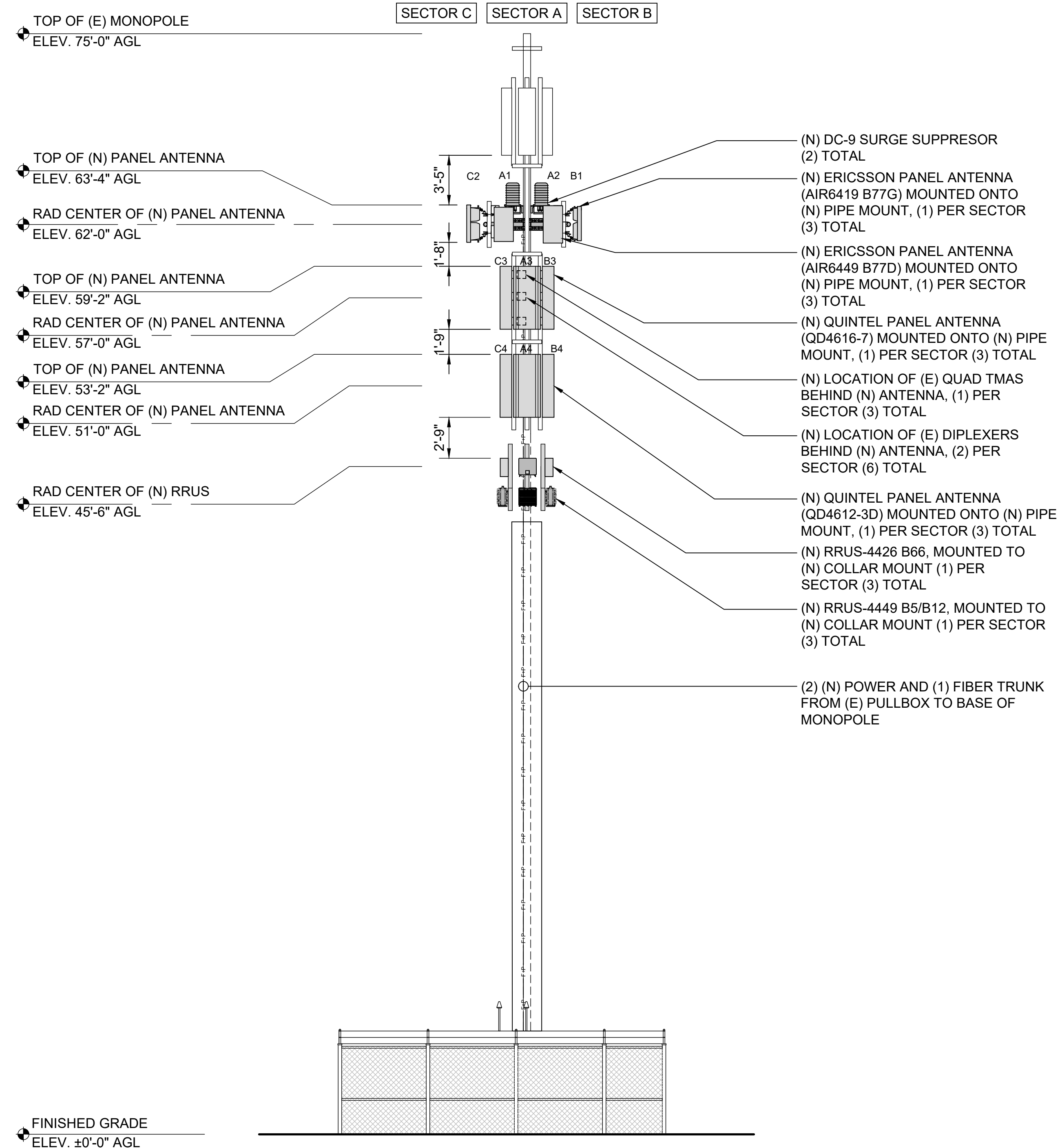
SHEET TITLE
ANTENNA LAYOUT

SHEET NUMBER
A-4

EXISTING ANTENNA LAYOUT



NOTE:
1. ALL EXISTING GROUNDING TO BE RECONNECTED PRIOR TO CONSTRUCTION COMPLETE.



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HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE



REV	DATE	DESCRIPTION	INT
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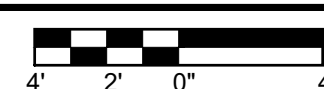
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SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-5

EXISTING NORTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



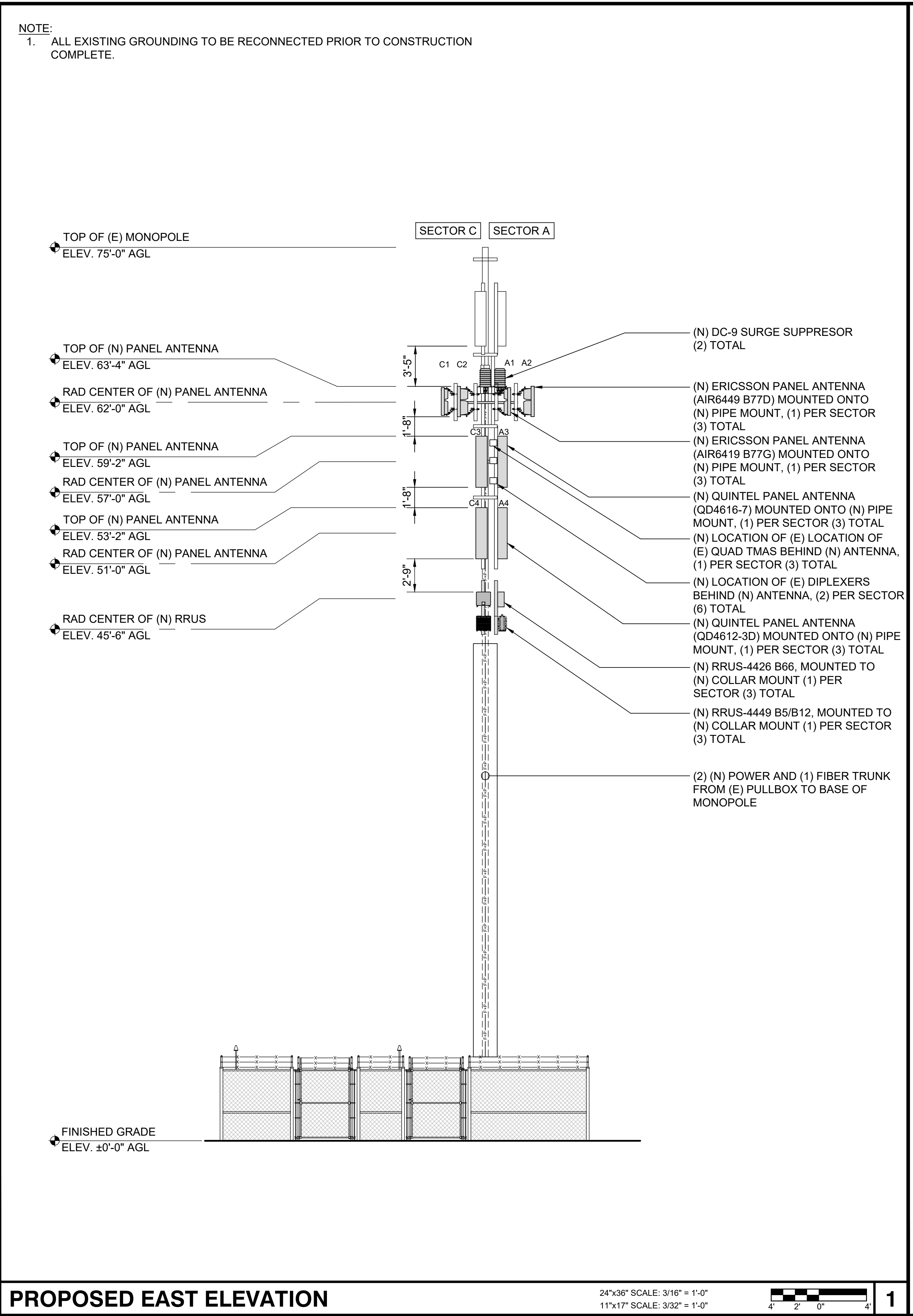
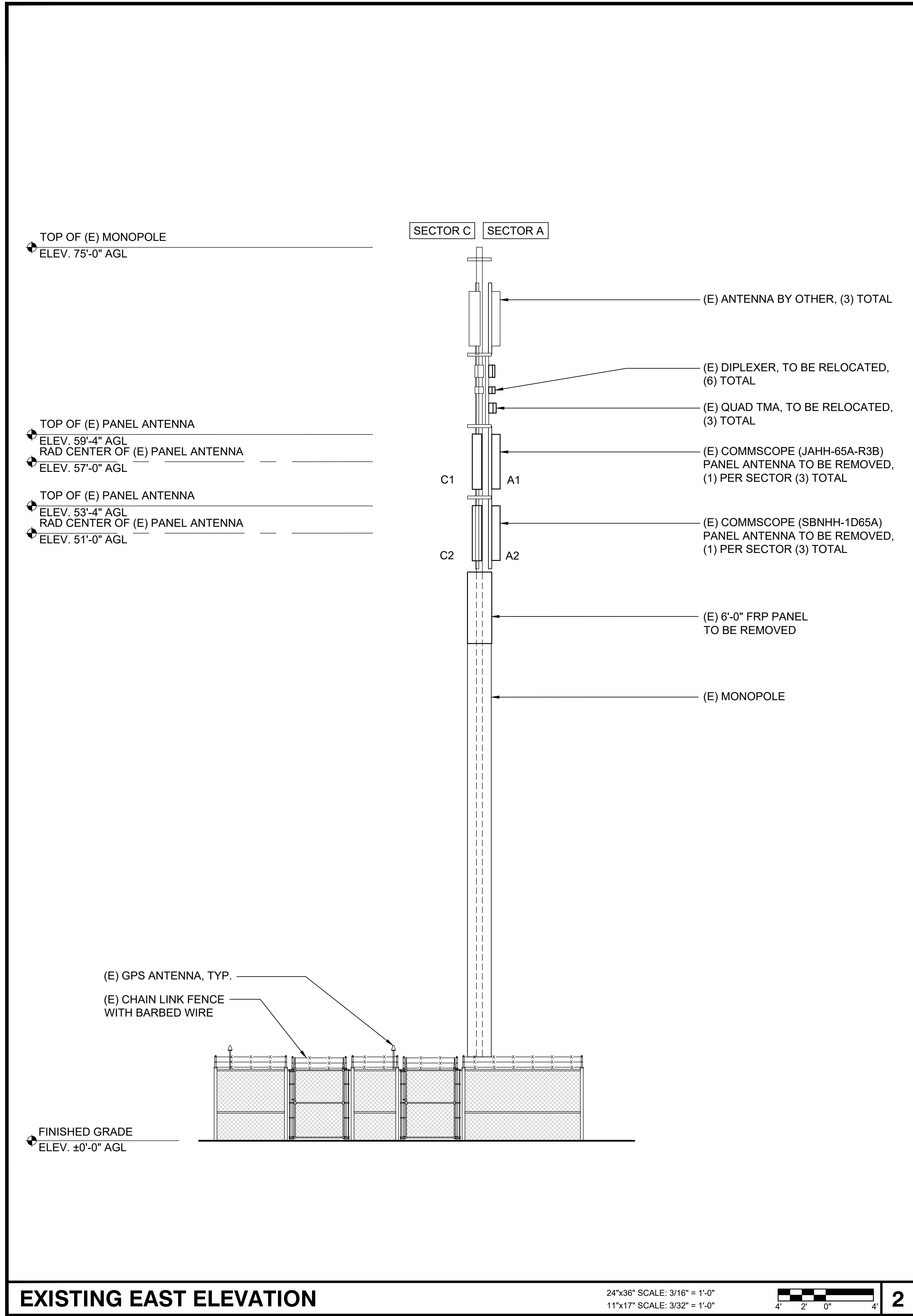
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PROPOSED NORTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



1



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HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE

5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583

4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

PLANS PREPARED BY:

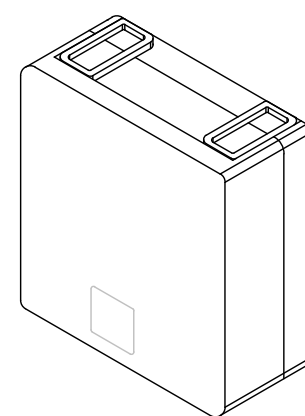
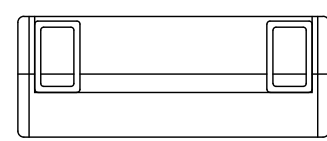
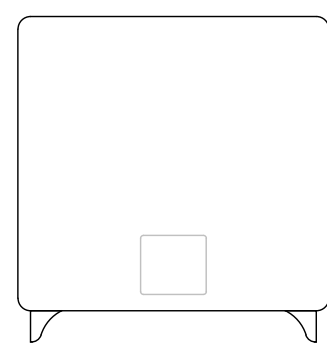
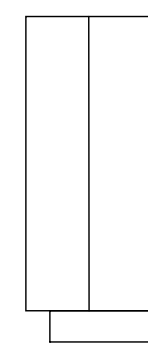
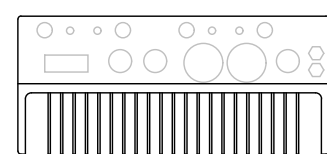
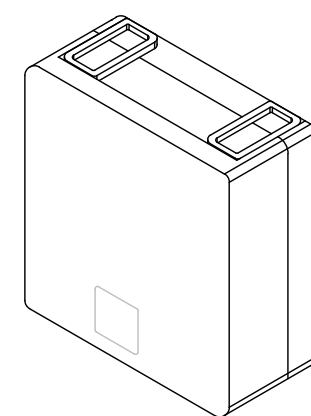
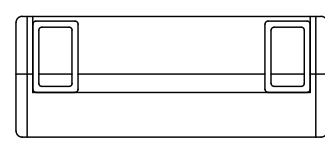
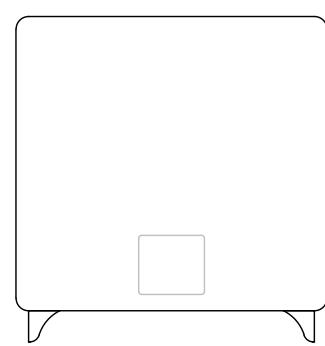
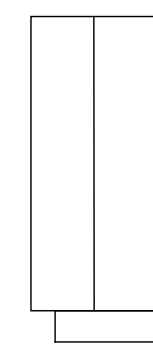
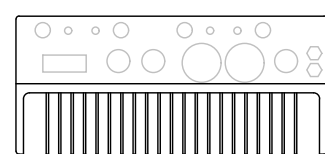
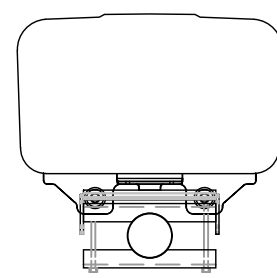
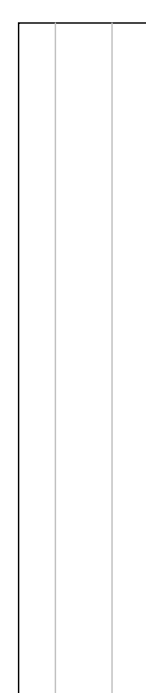



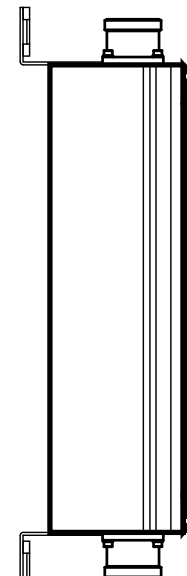
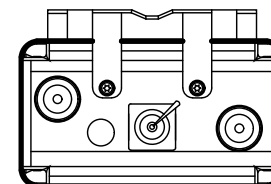
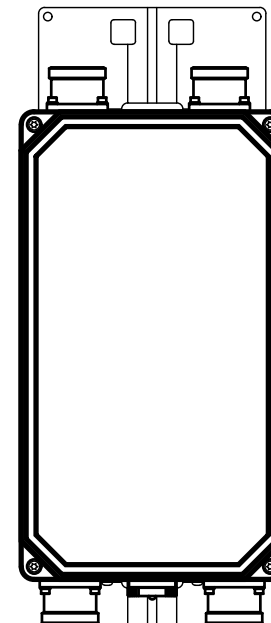
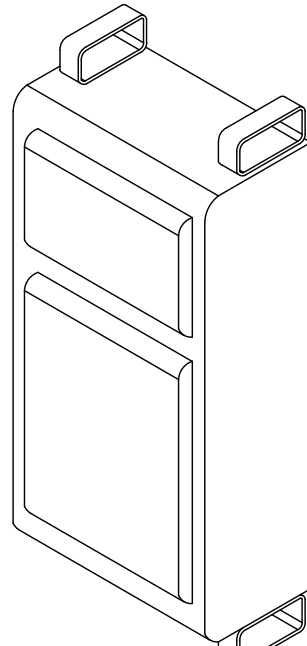
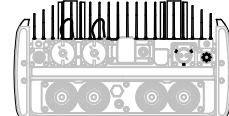
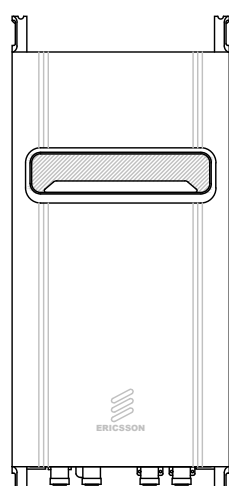

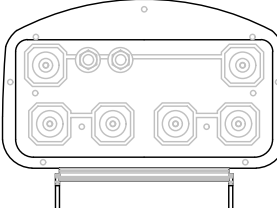
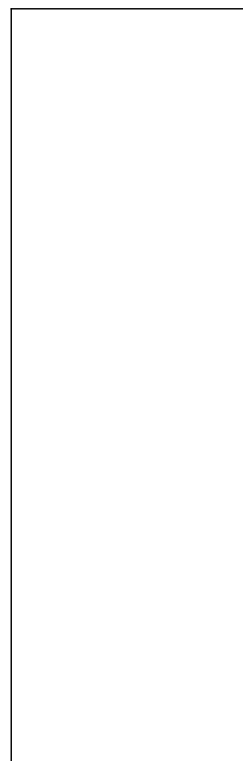

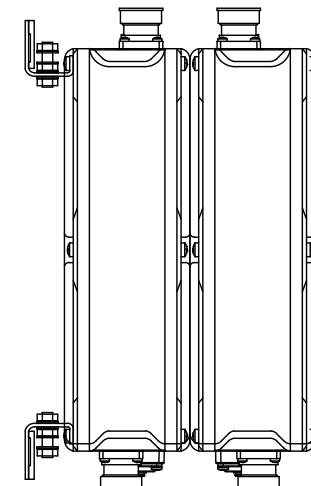
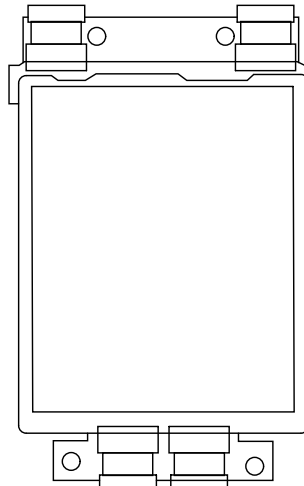
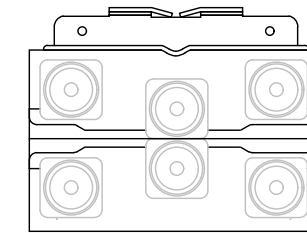
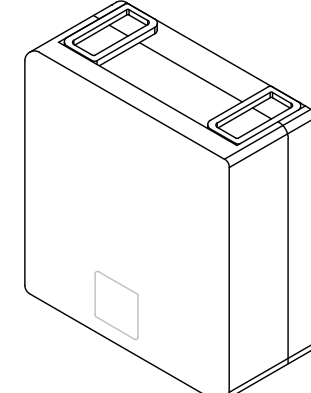
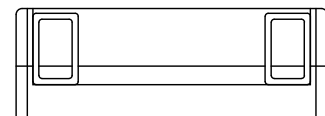
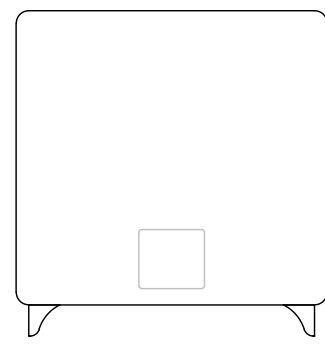
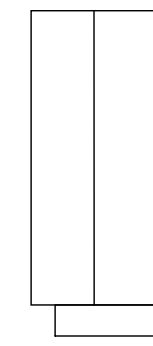
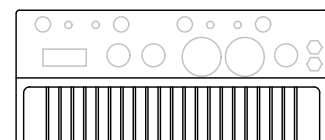
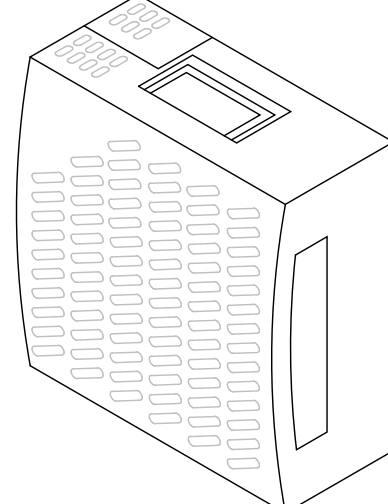
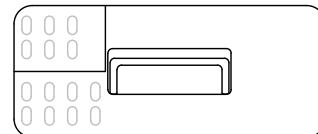
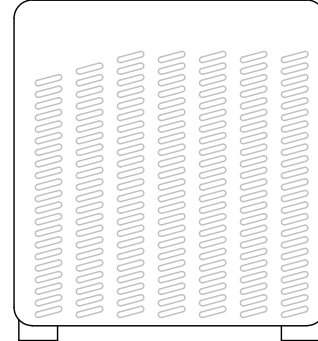
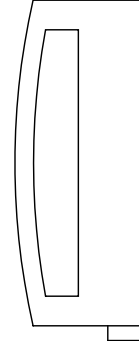
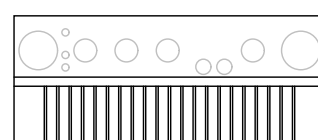
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REV	DATE	DESCRIPTION	INT
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A	2/18/2022	90% CDS	RAR

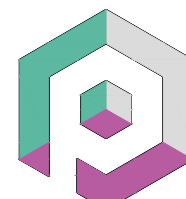
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SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-6

<div>ERICSSON: RRUS-4478 B14</div> <div>MANUFACTURER: ERICSSON</div> <div>MODEL NUMBER: 4478 B14</div> <div>DIMENSIONS (HxWxD): 15.0"X13.2"X7.3"</div> <div>TOTAL WEIGHT: 59.4 LBS</div> <div><div>ISOMETRIC VIEW</div></div> <div><div><div><div>PLAN VIEW</div></div><div><div>FRONT VIEW</div></div><div><div>SIDE VIEW</div></div><div><div>BOTTOM VIEW</div></div></div></div>		7	<div>ERICSSON: RRUS-4415 B25</div> <div>MANUFACTURER: ERICSSON</div> <div>MODEL NUMBER: 4415 B25</div> <div>DIMENSIONS (HxWxD): 16.5"X13.4"X5.8"</div> <div>TOTAL WEIGHT: 46 LBS</div> <div><div>ISOMETRIC VIEW</div></div> <div><div><div><div>PLAN VIEW</div></div><div><div>FRONT VIEW</div></div><div><div>SIDE VIEW</div></div><div><div>BOTTOM VIEW</div></div></div></div>		4	<div>COMMSCOPE: JAHH-65A-R3B</div> <div>BAND: MULTIBAND</div> <div>OP. FREQ BAND: 698-896 MHZ AND 1695-2400 MHZ</div> <div>DIMENSION, HxWxD: 55.1" x13.78" x8.189"</div> <div>WEIGHT: 53 lbs.</div> <div>RET INTERFACE: 8 x 4.3-10 FEMALE</div> <div><div>PLAN VIEW</div></div> <div><div>FRONT VIEW</div></div> <div><div>SIDE VIEW</div></div>		1	<div>CCL00357</div> <div>HAMPTON</div> <div>1594 HAMPTON</div> <div>SANTA ROSA, CA 95407</div> <div>75'-0" MONOPOLE</div> <div></div> <div>5001 EXECUTIVE PKWY.</div> <div>SAN RAMON, CA 94583</div>								
<div>(E) RRUS-4478 B14 SPECIFICATIONS</div>			<div>(E) RRUS-4415 B25 SPECIFICATIONS</div>			<div>(E) COMMSCOPE - JAHH-65A-R3B</div>			<div></div> <div>4120 DUBLIN BLVD STE</div> <div>450 DUBLIN,</div> <div>CALIFORNIA 94568</div>								
<div>TMA2066F03V1-1D</div> <div>MANUFACTURER: KAEIUS</div> <div>MODEL NUMBER: TMA2066F03V1-1D</div> <div>DIMENSIONS (HxWxD): 11.18"x6.6"x4.5"</div> <div>WEIGHT: 18.1 LBS.</div> <div><div>SIDE VIEW</div></div> <div><div><div><div>TOP VIEW</div></div><div><div>FRONT VIEW</div></div></div></div>		8	<div>ERICSSON: RRUS-32 B30</div> <div>MANUFACTURER: ERICSSON</div> <div>MODEL NUMBER: 32 B30</div> <div>DIMENSIONS (HxWxD): 27.2"X12.1"X7.0"</div> <div>TOTAL WEIGHT: 53 LBS</div> <div><div>ISOMETRIC VIEW</div></div> <div><div><div><div>PLAN VIEW</div></div><div><div>FRONT VIEW</div></div><div><div>SIDE VIEW</div></div></div></div>		5	<div>COMMSCOPE: SBNHH-1D65A</div> <div>BAND: MULTIBAND</div> <div>OP. FREQ BAND: 1695-2360 MHZ AND 692-869 MHZ</div> <div>DIMENSIONS, HxWxD: 55.6" X 11.9" X 7.1"</div> <div>WEIGHT: 33.5 LBS.</div> <div>RET INTERFACE: 7 -16 DIN FEMALE</div> <div><div>PLAN VIEW</div></div> <div><div>FRONT VIEW</div></div> <div><div>SIDE VIEW</div></div>		2	<div>(E) TMA TMA2066F03V1-1D SPECIFICATIONS</div>			<div>(E) RRUS-32 B30 SPECIFICATIONS</div>			<div>(E) COMMSCOPE - SBNHH-1D65A</div>		
<div>CBC78-DF</div> <div>MANUFACTURER: COMMSCOPE</div> <div>MODEL NUMBER: CBC78-DF</div> <div>DIMENSIONS (HxWxD): 7.874"X5.906"X5.748"</div> <div>WEIGHT: 13.889 LBS</div> <div><div>SIDE VIEW</div></div> <div><div>FRONT VIEW</div></div> <div><div>TOP VIEW</div></div>		9	<div>ERICSSON: RRUS-4426 B66</div> <div>MANUFACTURER: ERICSSON</div> <div>MODEL NUMBER: 4426 B66</div> <div>DIMENSIONS (HxWxD): 14.96"X13.19"X5.8"</div> <div>TOTAL WEIGHT: 48.4 LBS</div> <div><div>ISOMETRIC VIEW</div></div> <div><div><div><div>PLAN VIEW</div></div><div><div>FRONT VIEW</div></div><div><div>SIDE VIEW</div></div><div><div>BOTTOM VIEW</div></div></div></div>		6	<div>ERICSSON: RRUS-11 B12</div> <div>MANUFACTURER: ERICSSON</div> <div>MODEL NUMBER: 11 B12</div> <div>DIMENSIONS (HxWxD): 19.68"X16.96"X7.2"</div> <div>TOTAL WEIGHT: 55.11 LBS</div> <div><div>ISOMETRIC VIEW</div></div> <div><div><div><div>PLAN VIEW</div></div><div><div>FRONT VIEW</div></div><div><div>SIDE VIEW</div></div><div><div>BOTTOM VIEW</div></div></div></div>		3	<div>(E) DIPLEXER (CBC78-DF) SPECIFICATIONS</div>			<div>(E) & (N) RRUS-4426 B66 SPECIFICATIONS</div>			<div>(E) RRUS-11 B12 SPECIFICATIONS</div>		

PLANS PREPARED BY:




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1	07/11/2022	RFDS UPDATE	GCA
0	6/23/2022	100% CDS	GCA
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A	2/18/2022	90% CDS	RAR
REV	DATE	DESCRIPTION	INT

LICENSED PROFESSIONAL ENGINEER

AMER ALKLOUB



C 90995

CIVIL

STATE OF CALIFORNIA

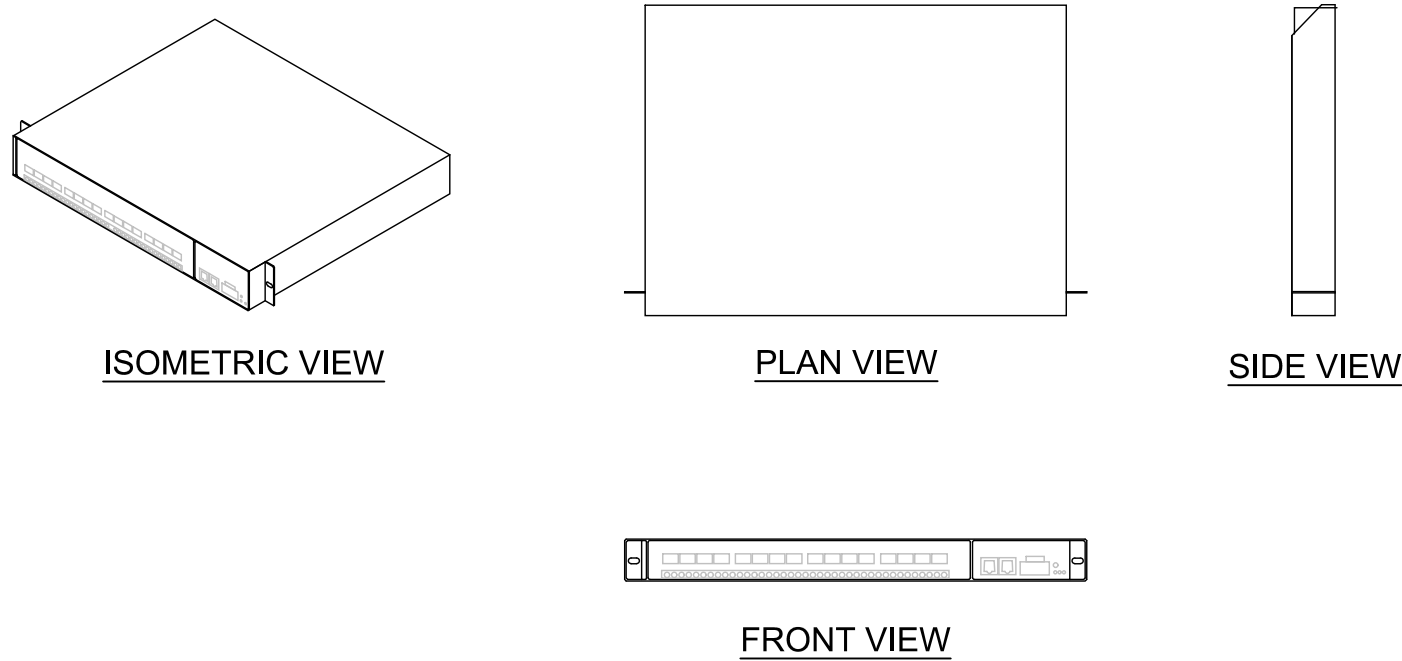
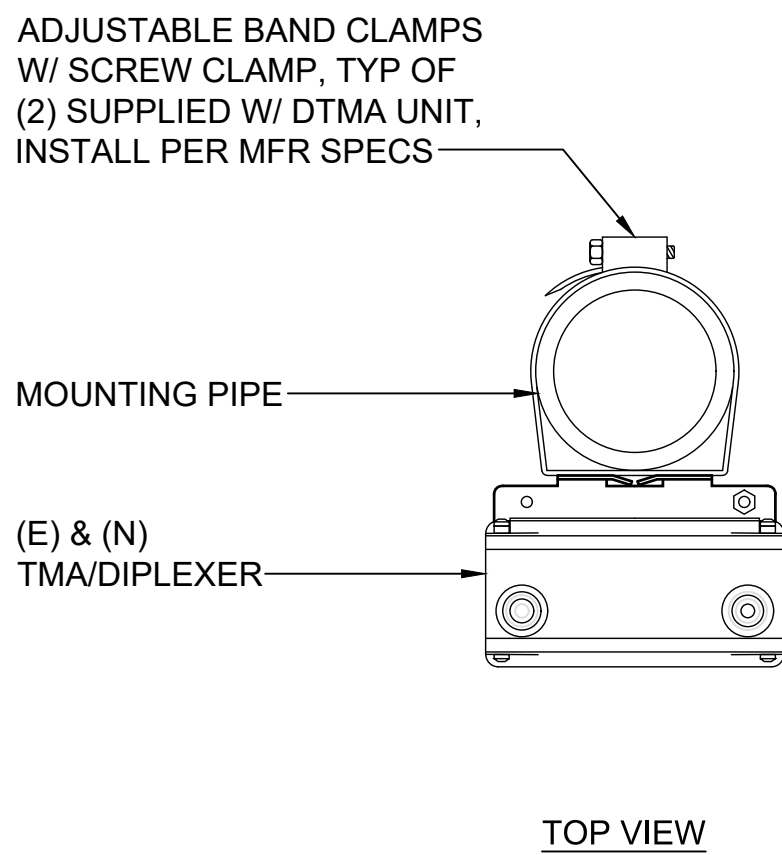
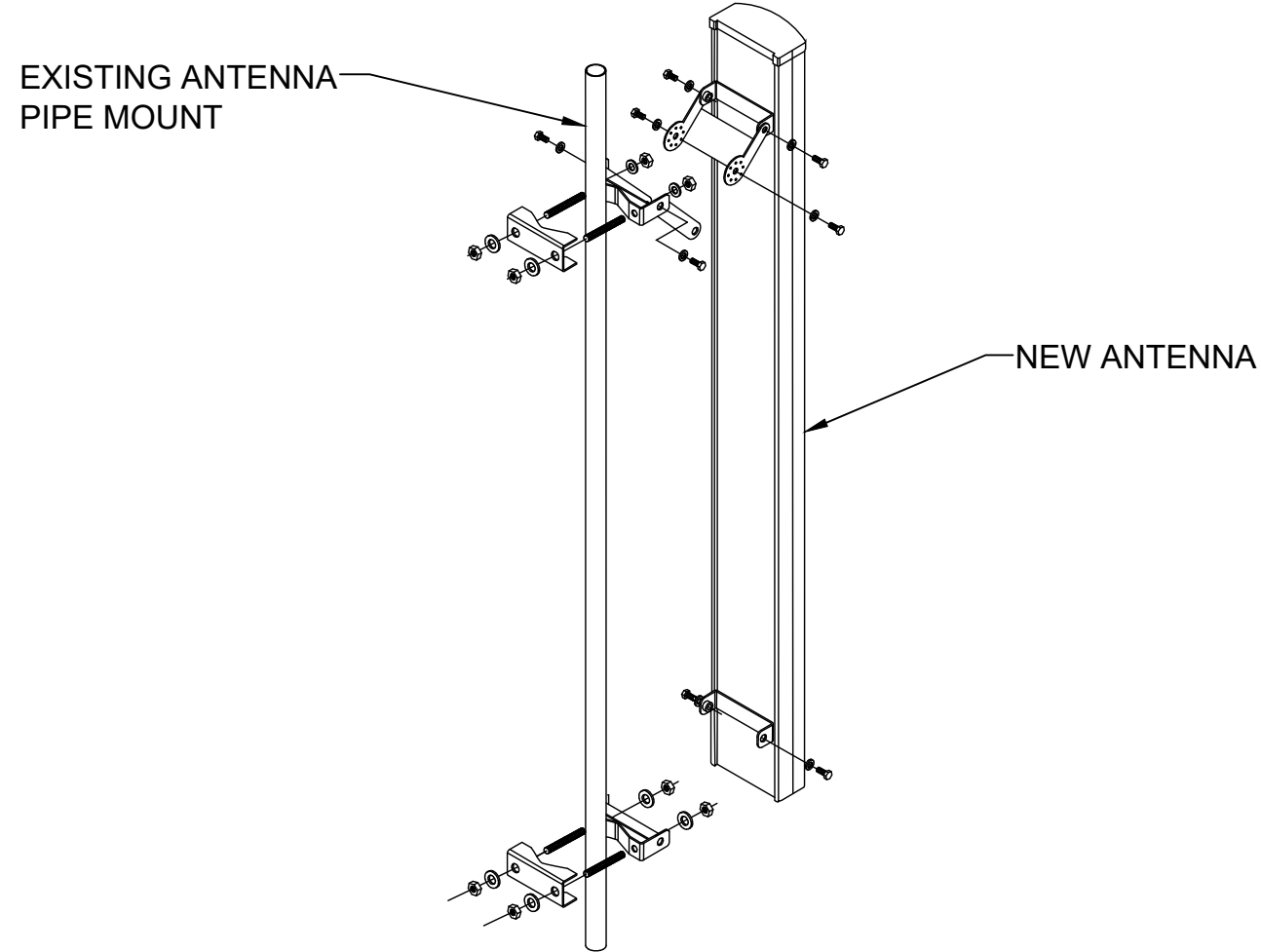

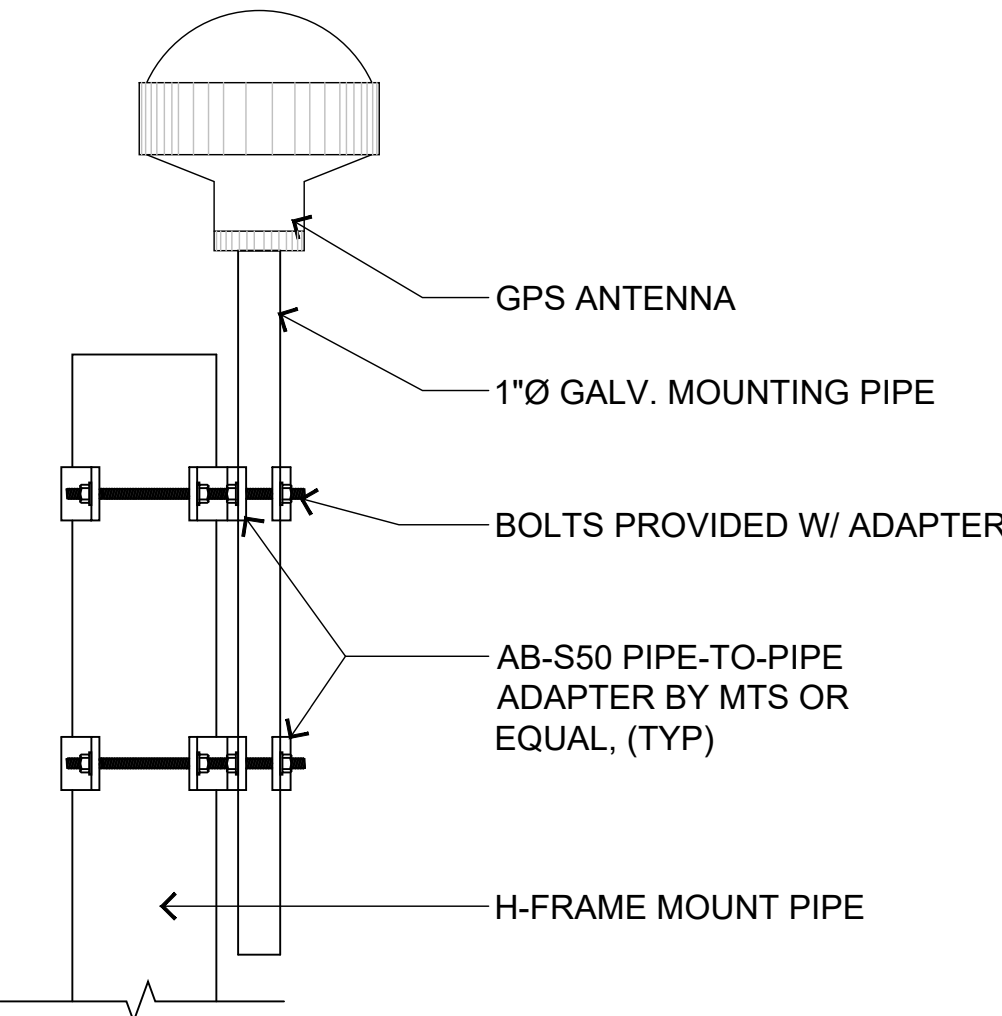
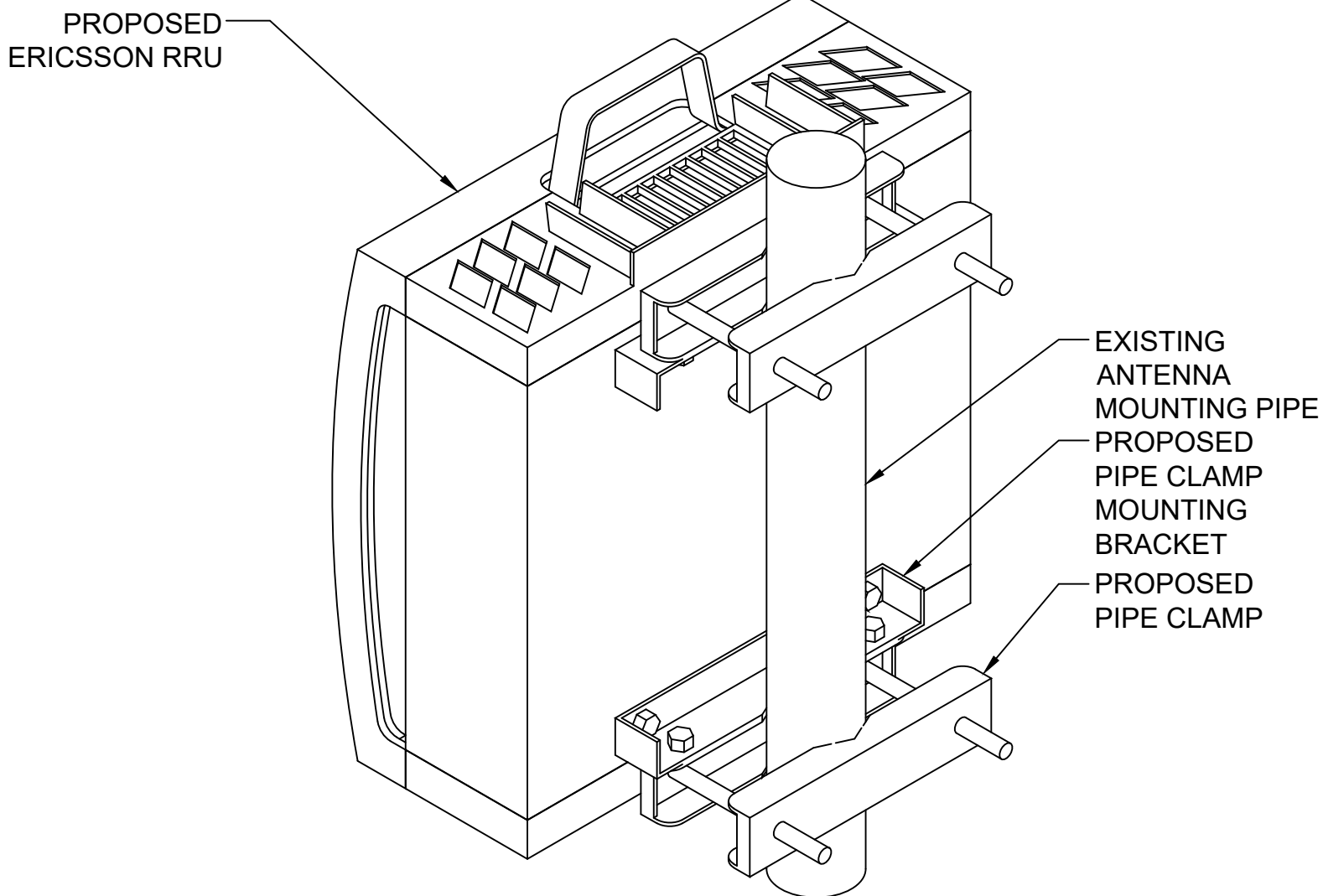

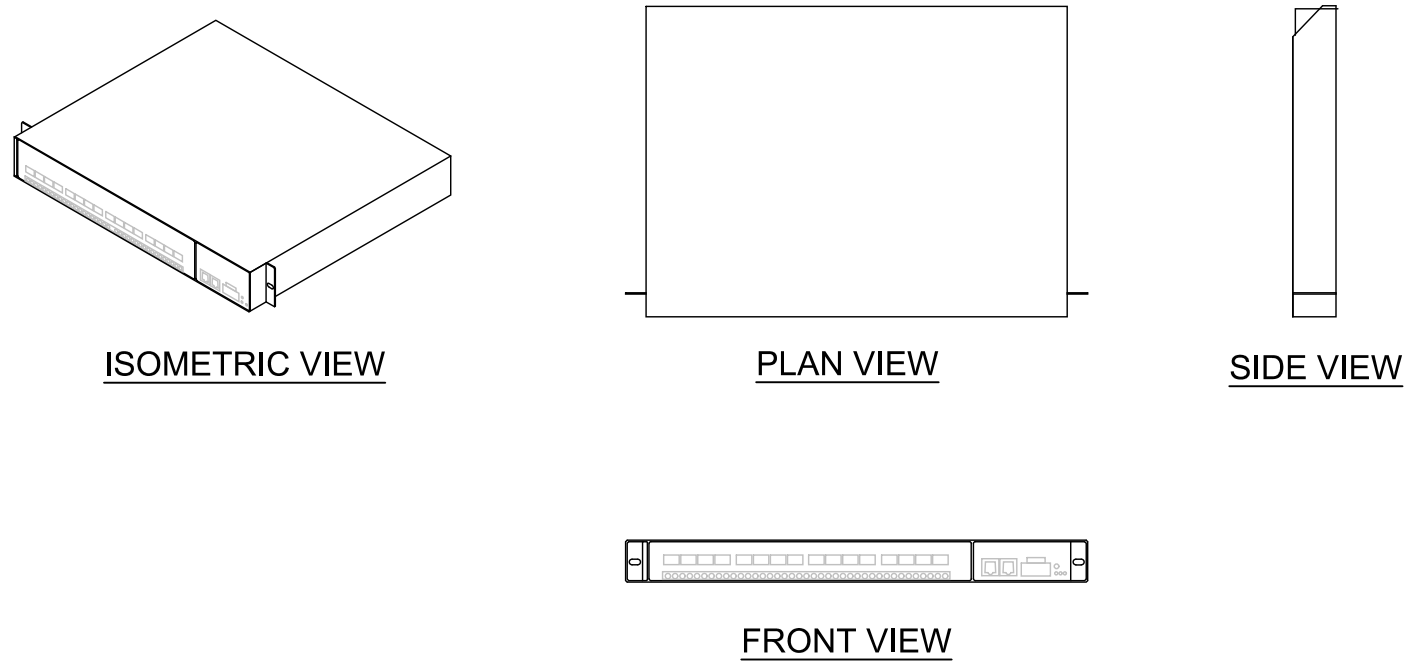
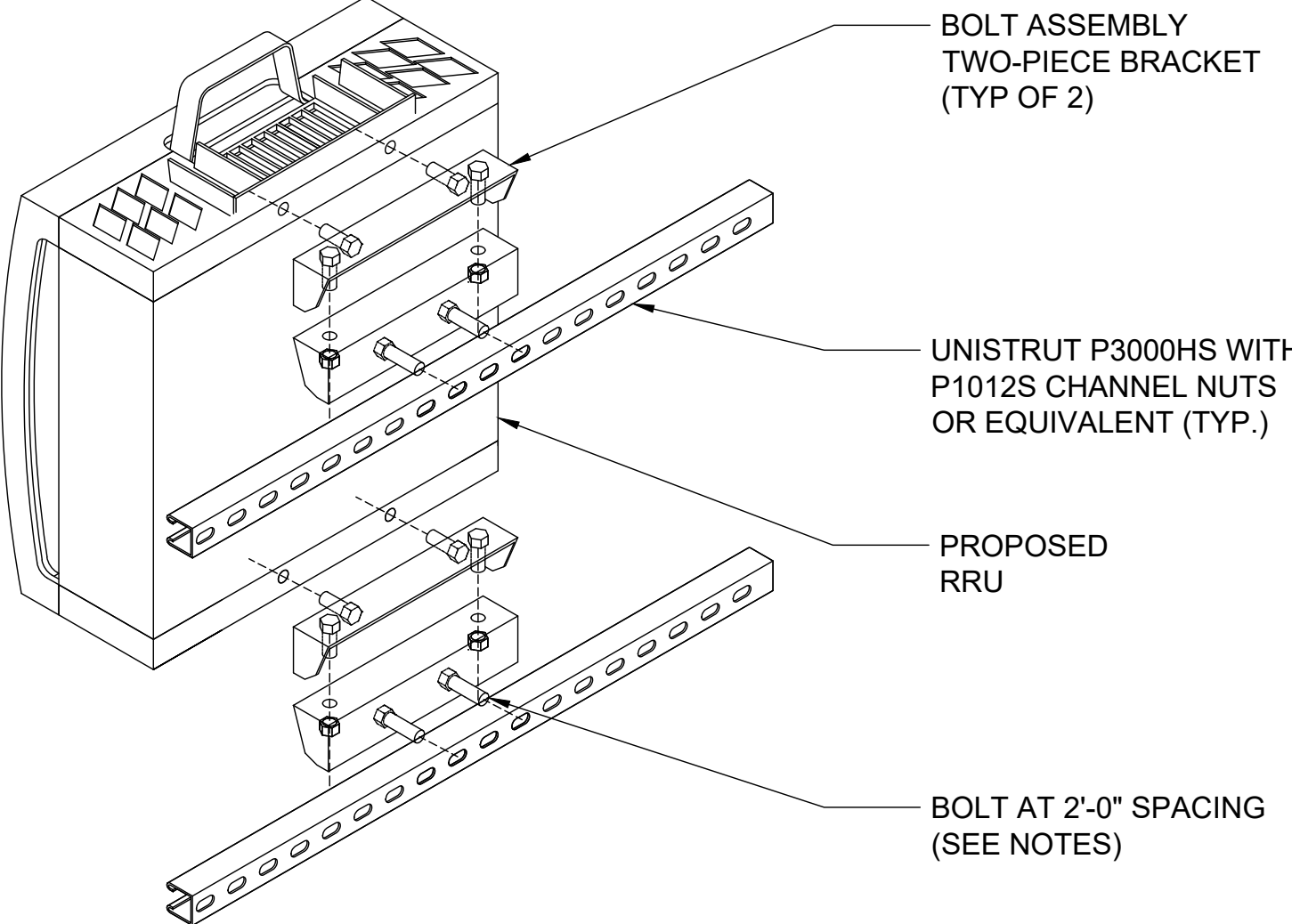

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SHEET TITLE

DETAILS

SHEET NUMBER

D-1

<p>ERICSSON BASEBAND 5216</p> <p>MANUFACTURER: ERICSSON MODEL NUMBER: 5216 DIMENSIONS (WxDxH): 13.8"x11"x1.22" MAX POWER CONSUMPTION: 80 W BREAKER SIZE: MIN. 15A, MAX 20A TOTAL WEIGHT: 8.8 LBS</p>  <p>ISOMETRIC VIEW PLAN VIEW SIDE VIEW</p> <p>FRONT VIEW</p>	 <p>ADJUSTABLE BAND CLAMPS W/ SCREW CLAMP, TYP OF (2) SUPPLIED W/ DTMA UNIT, INSTALL PER MFR SPECS</p> <p>MOUNTING PIPE</p> <p>(E) & (N) TMA/DIPLEXER</p> <p>TOP VIEW</p>	 <p>EXISTING ANTENNA PIPE MOUNT</p> <p>NEW ANTENNA</p>	<p>CCL00357 HAMPTON 1594 HAMPTON SANTA ROSA, CA 95407 75'-0" MONOPOLE</p>
<p>(E) ERICSSON BASEBAND UNIT 5216</p>	<p>7 (E) & (N) TYPICAL TMA/DIPLEXER MOUNTING DETAIL</p>	<p>(E) & (N) TYPICAL ANTENNA MOUNT DETAIL</p>	<p>1</p>
<p>ERICSSON 6601 V2 CHASSIS</p> <p>MANUFACTURER: ERICSSON MODEL NUMBER: 6601 V2 CHASSIS DIMENSIONS (HxWxD): 2.59"x19"x13.77" POWER CONSUMPTION: 250 W BREAKER SIZE: MIN. 15A, MAX 20A TOTAL WEIGHT: <22.04 LBS NOMINAL VOLTAGE: -48VDC OPERATING VOLTAGE RANGE: -40.0 TO -57.6VDC NON-DESTRUCTIVE VOLTAGE RANGE: 0 TO -60VDC</p> 	 <p>GPS ANTENNA</p> <p>1"Ø GALV. MOUNTING PIPE</p> <p>BOLTS PROVIDED W/ ADAPTER</p> <p>AB-S50 PIPE-TO-PIPE ADAPTER BY MTS OR EQUAL, (TYP)</p> <p>H-FRAME MOUNT PIPE</p>	 <p>PROPOSED ERICSSON RRU</p> <p>EXISTING ANTENNA MOUNTING PIPE</p> <p>PROPOSED PIPE CLAMP MOUNTING BRACKET</p> <p>PROPOSED PIPE CLAMP</p>	
<p>(E) ERICSSON - 6601 V2 CHASSIS</p>	<p>8 (E) GPS ANTENNA</p>	<p>5 (E) & (N) TYPICAL RRU PIPE MOUNTING DETAIL</p>	<p>2</p>
<p>NOT USED</p>	<p>ERICSSON XMU</p> <p>MANUFACTURER: ERICSSON MODEL NUMBER: XMU DIMENSIONS (WxDxH): 13.8"x11"x1.22" MAX POWER CONSUMPTION: 80 W BREAKER SIZE: MIN. 15A, MAX 20A TOTAL WEIGHT: <5 LBS</p>  <p>ISOMETRIC VIEW PLAN VIEW SIDE VIEW</p> <p>FRONT VIEW</p>	 <p>BOLT ASSEMBLY TWO-PIECE BRACKET (TYP OF 2)</p> <p>UNISTRUT P3000HS WITH P1012S CHANNEL NUTS OR EQUIVALENT (TYP.)</p> <p>PROPOSED RRU</p> <p>BOLT AT 2'-0" SPACING (SEE NOTES)</p>	 <p>IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.</p>
<p>9</p>	<p>(E) ERICSSON - XMU</p>	<p>6 (E) TYPICAL RRU UNISTRUT MOUNTING DETAIL</p>	<p>3</p>



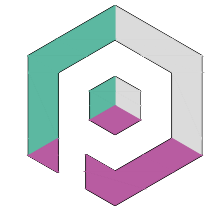
5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583



ERICSSON

4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

PLANS PREPARED BY:



Pramira
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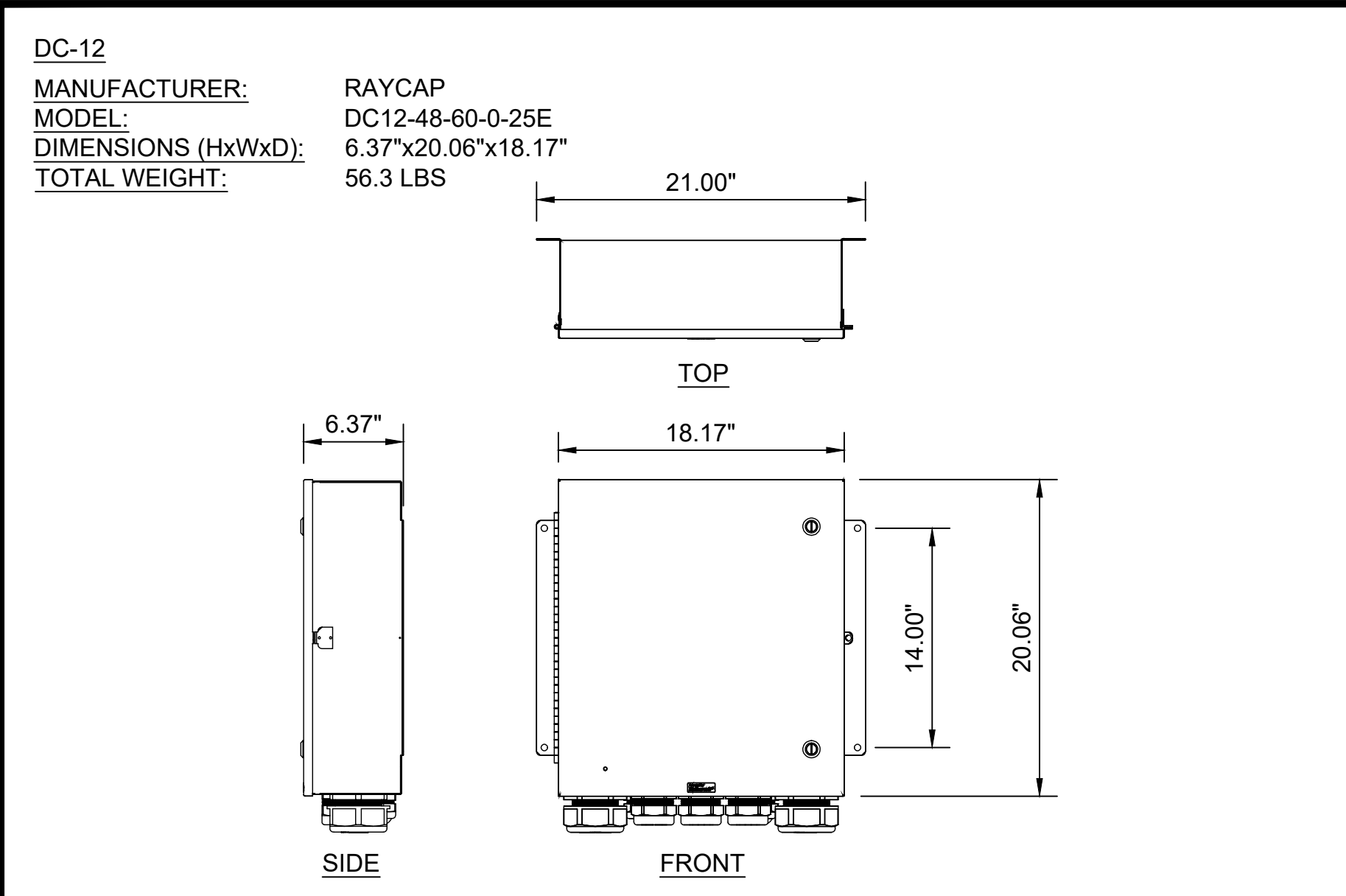
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SHEET TITLE

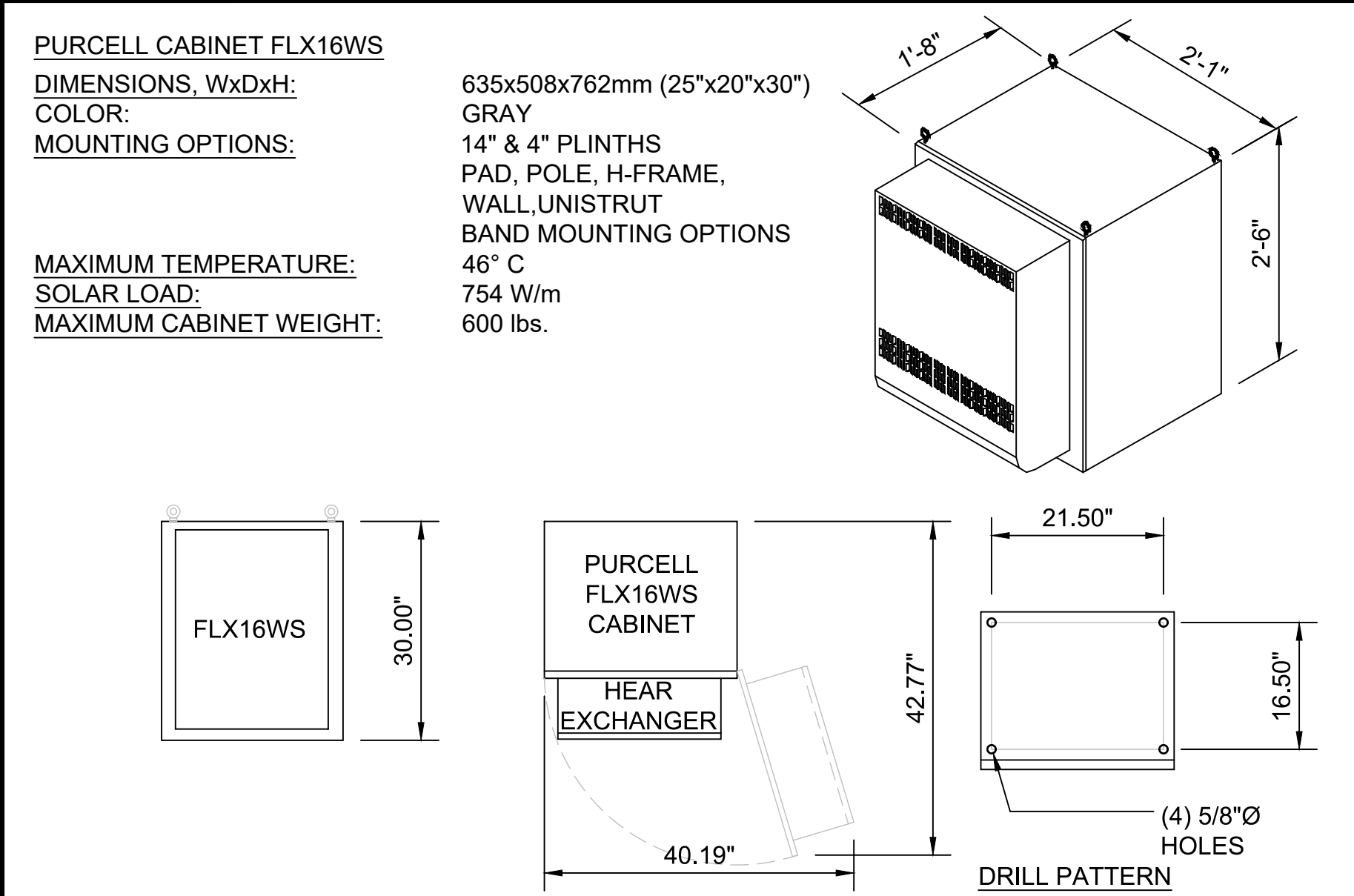
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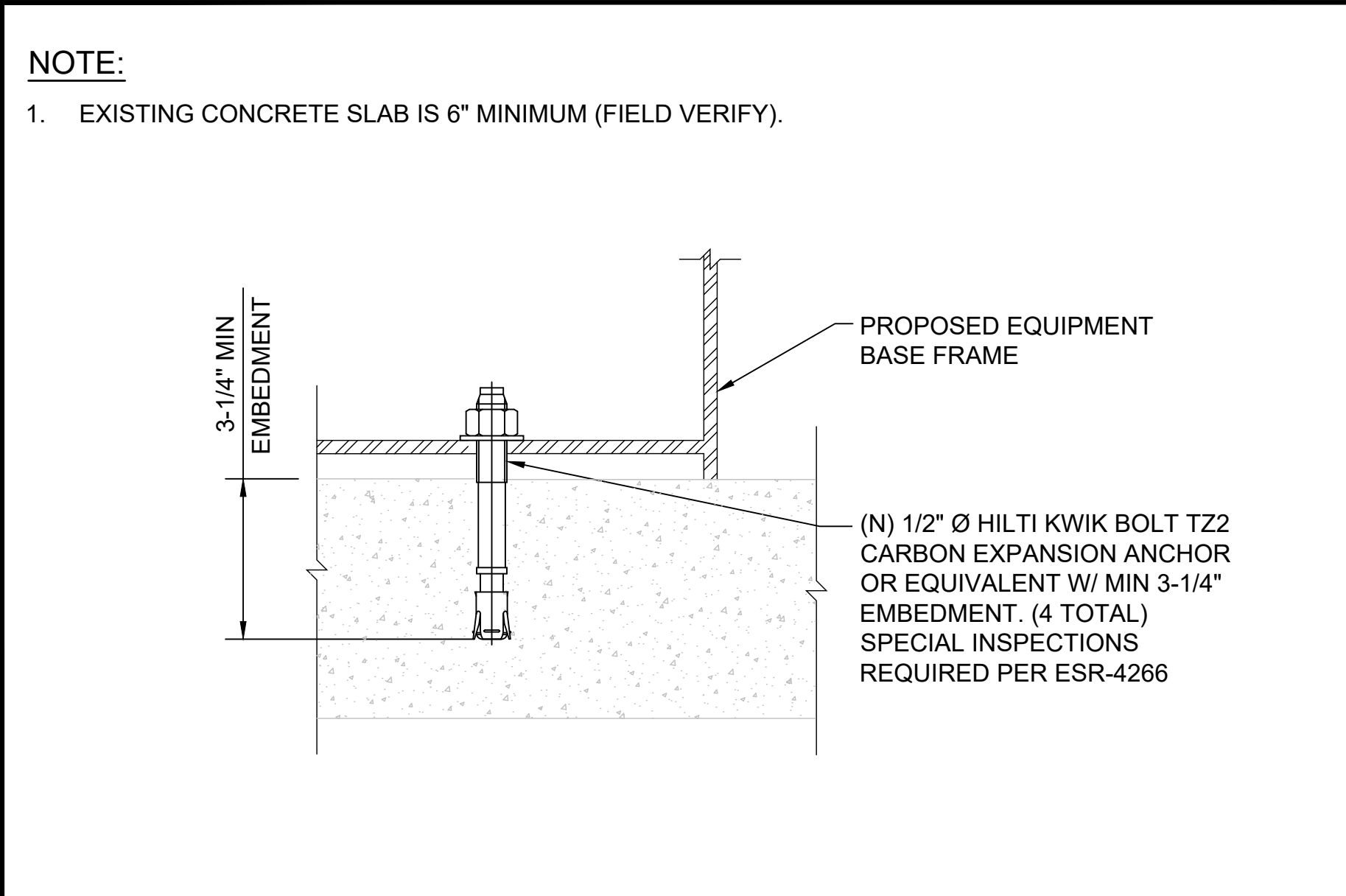
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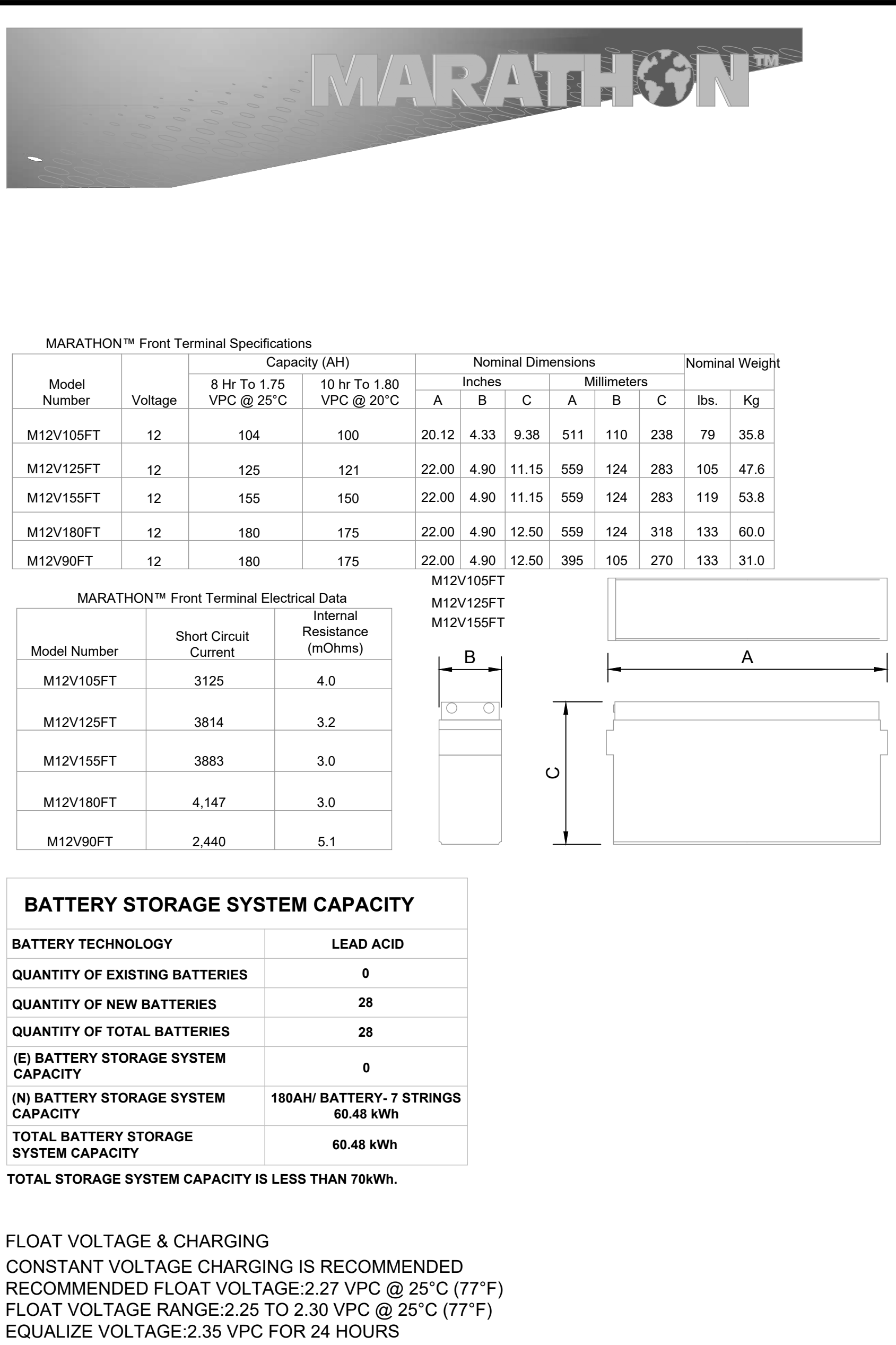
(E) & (N) DC12 SURGE SUPPRESSOR 5



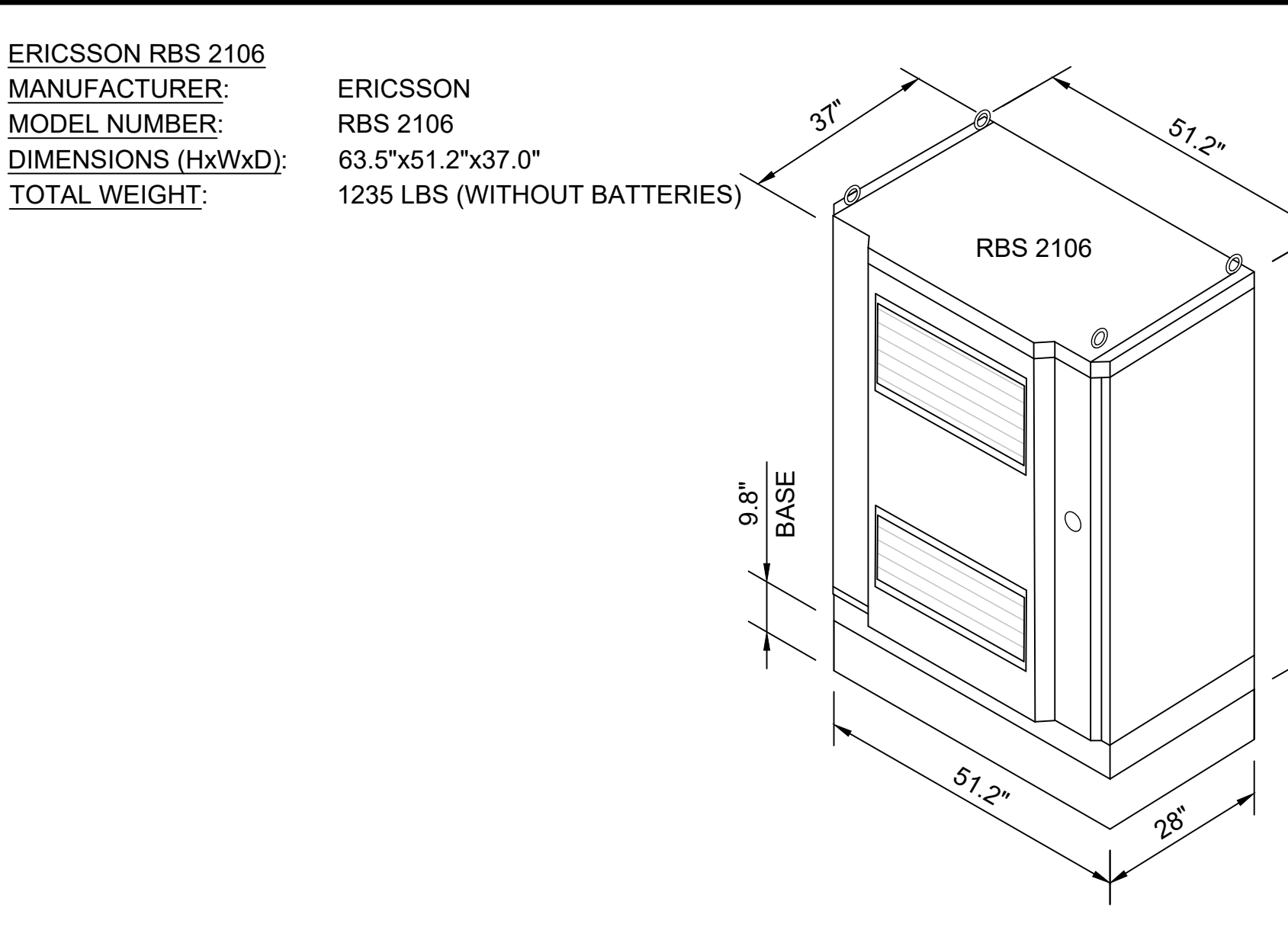
(E) PURCELL CABINET 6



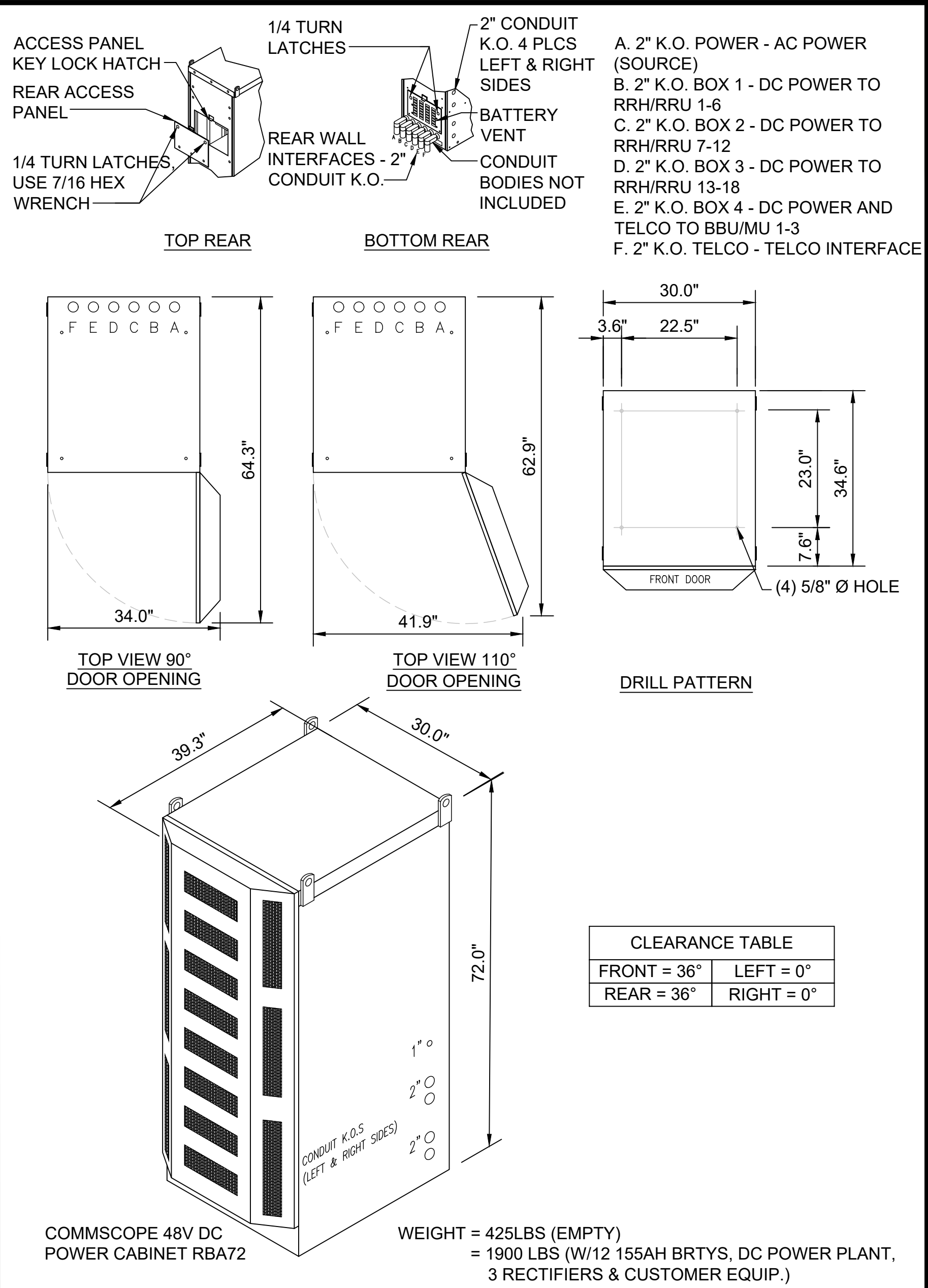
(E) & (N) CONCRETE ANCHOR DETAIL 7



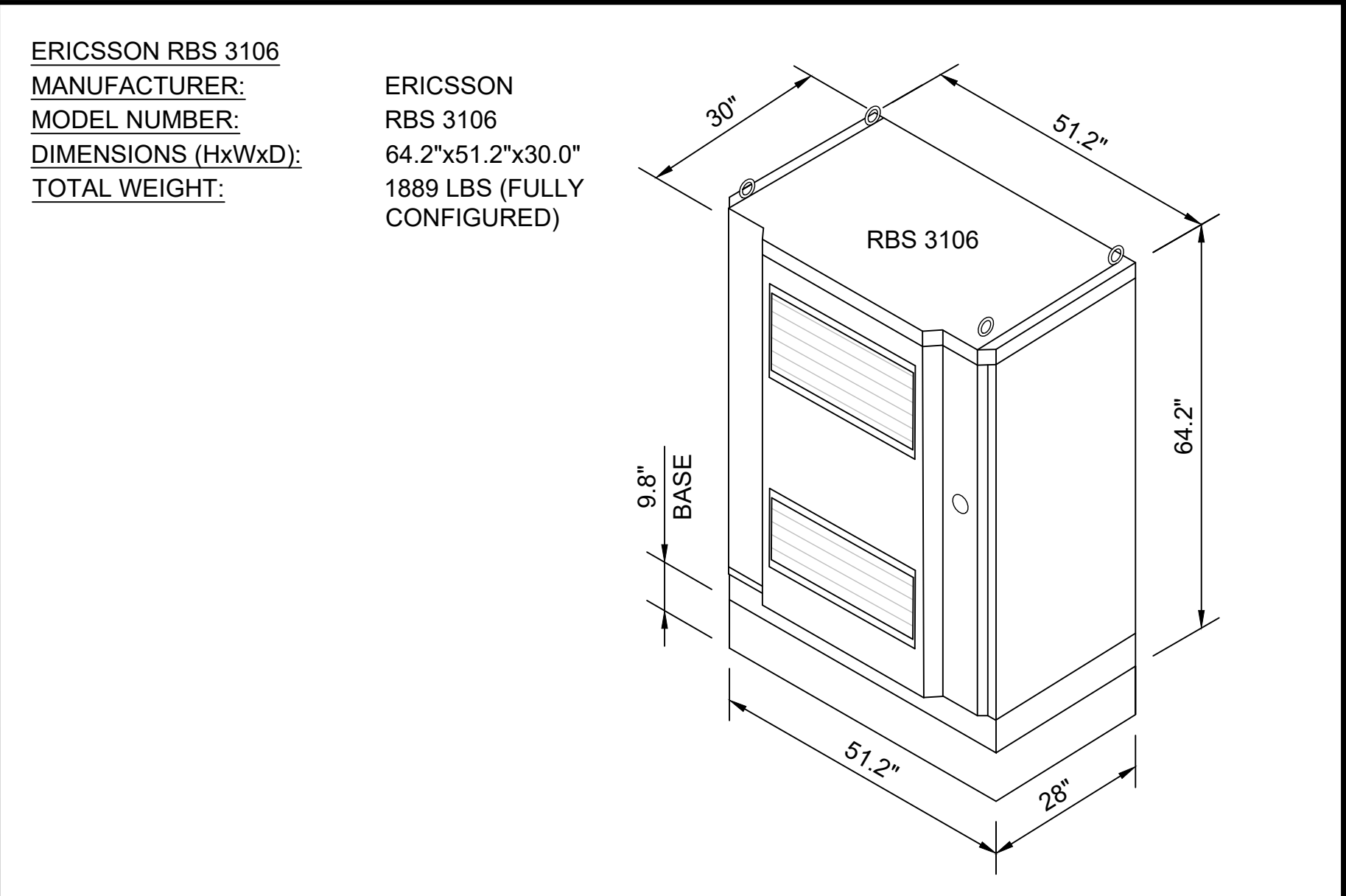
(E) BATTERY SPECIFICATIONS 3



(E) RBS 2106 CABINET 4



(E) DC POWER PLANT RBA 72 1



(E) RBS 3106 CABINET 2

CCL00357
HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE

at&t
5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583

ERICSSON
4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

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LICENSED PROFESSIONAL ENGINEER
AMER ALKLOB
C 90995
STATE OF CALIFORNIA
CIVIL

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DETAILS

SHEET NUMBER
D-3



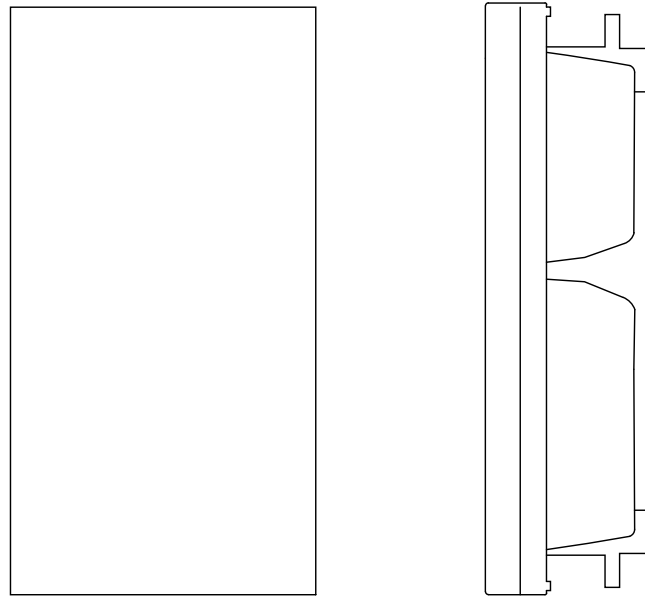
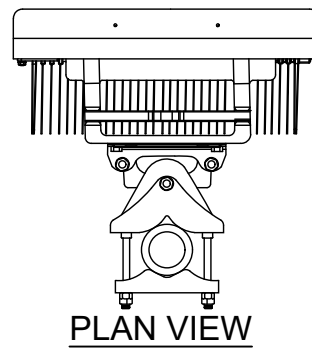
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D-4

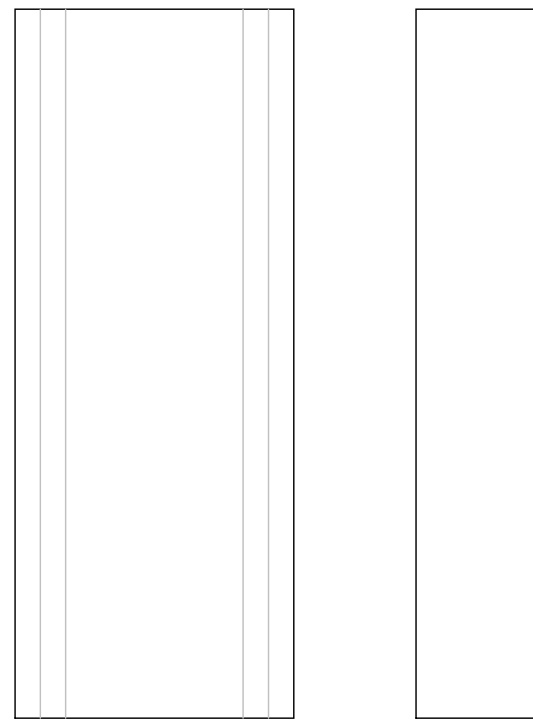
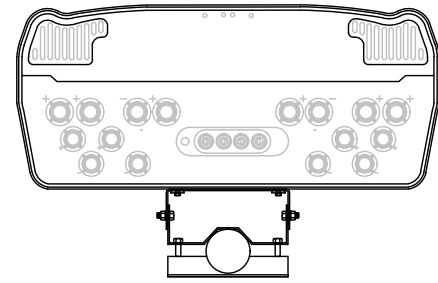
ERICSSON BASEBAND 6648
MANUFACTURER: ERICSSON
MODEL NUMBER: 6648
DIMENSIONS (WxDxH): 1.75"x19.00"x13.86"
TOTAL WEIGHT: 16.53 LBS



ERICSSON: AIR 6419 B77G
MANUFACTURER: ERICSSON
MODEL NUMBER: AIR6419 B77G
DIMENSIONS, HxWxD: 31.1"x16.1"x7.3"
TOTAL WEIGHT: 44 LBS. (WITHOUT RET OR MOUNTING HARDWARE)



QUINTEL: QD4616-7
BAND: MULTIBAND
OP. FREQ BAND: 698-894 MHZ AND 1695-2400 MHZ
DIMENSION, HxWxD: 51.5" x22" x9.6"
WEIGHT: 91 lbs.
RET INTERFACE: 1X 8-PIN DIN FEMALE & 1X 8-PIN DIN MALE



CCL00357
HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE



5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583



4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

PLANS PREPARED BY:



REV	DATE	DESCRIPTION	INT
1	07/11/2022	RFDS UPDATE	GCA
0	6/23/2022	100% CDS	GCA
B	5/17/2022	95% CDS	KD
A	2/18/2022	90% CDS	RAR

(N) ERICSSON BASEBAND 6648

7

(N) ERICSSON - AIR 6419 B77G

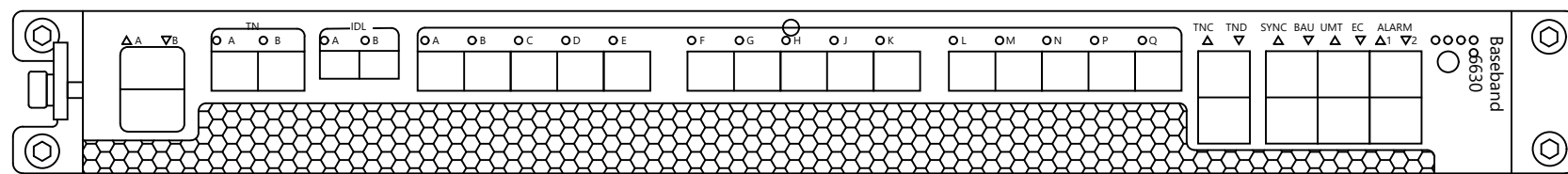
4

(N) QUINTEL - QD4616-7

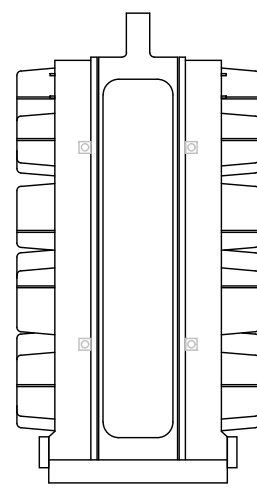
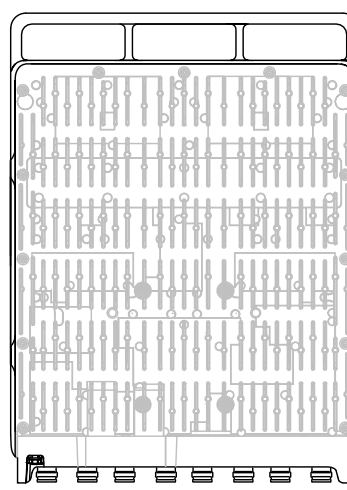
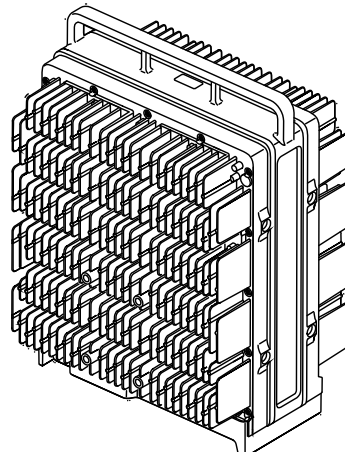
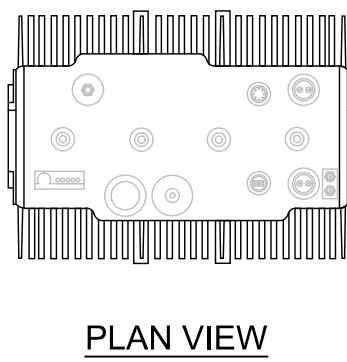
1

ERICSSON BASEBAND UNIT 6630
MANUFACTURER: ERICSSON
DIMENSIONS (HxWxD): 1.75"x19"x13.8"
TOTAL WEIGHT: 14.3 LBS
DC POWER SUPPLY NORMAL VOLTAGE: -48VDC
TEMPERATURE: 0 TO + 55 DEG C
DIMENSIONS (WxD): 19"x13.8"
TOTAL WEIGHT: 14.3 LBS

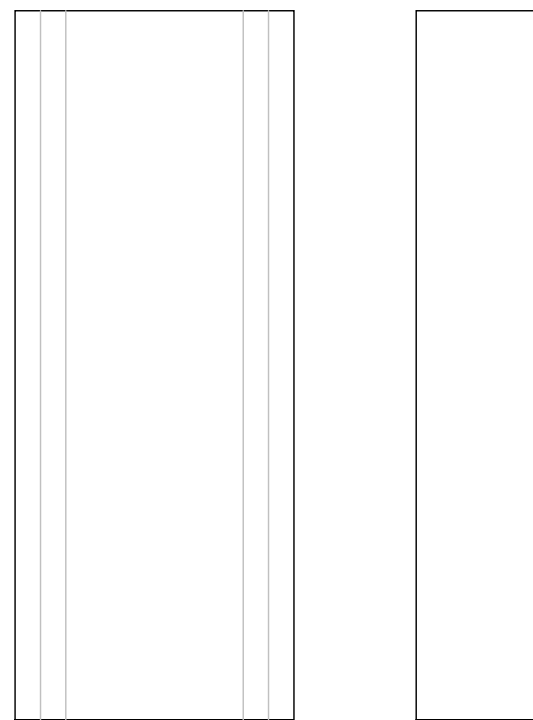
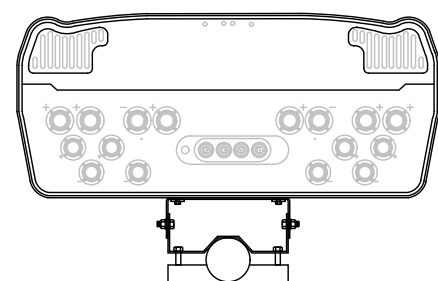
15 CPRI PORTS
MAXIMUM OF 24 CELLS (18 WITH NB-IOT)
2 OPTICAL (1/10Gbps) /2 ELECTRICAL (1Gbps) PORTS



ERICSSON: RRUS-4449 B5/B12
MANUFACTURER: ERICSSON
MODEL NUMBER: 4449 B5/B12
DIMENSIONS (HxWxD): 17.9"x13.19"x9.44"
TOTAL WEIGHT: 70.55 LBS



QUINTEL: QD4612-3D
BAND: MULTIBAND
OP. FREQ BAND: 698-894 MHZ AND 1695-2400 MHZ
DIMENSION, HxWxD: 51.5" x22" x9.6"
WEIGHT: 96.0 lbs.
RET INTERFACE: 12X 4.3-10.0 DIN FEMALE LONG NECK



(N) ERICSSON BASEBAND UNIT 6630

8

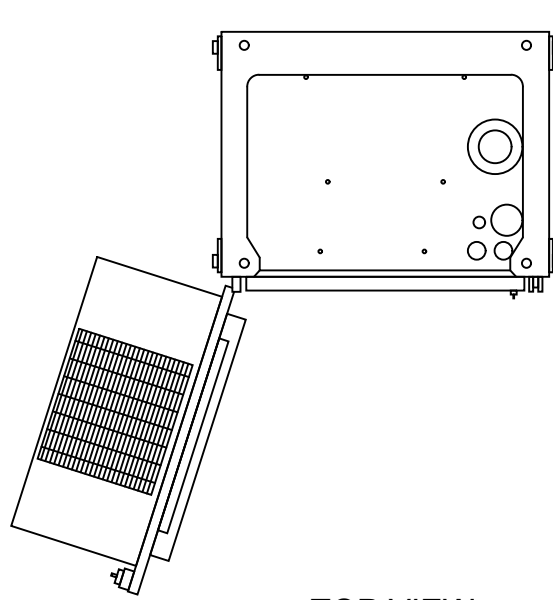
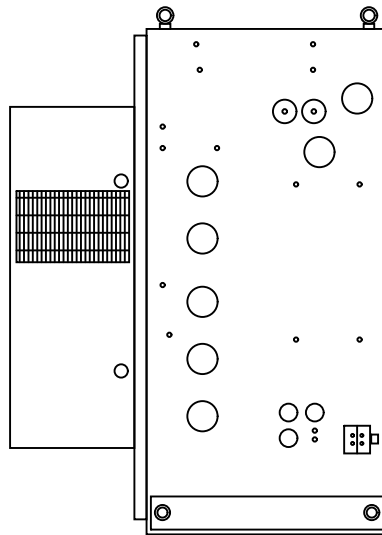
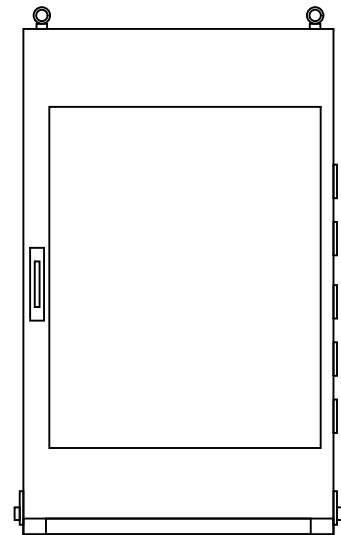
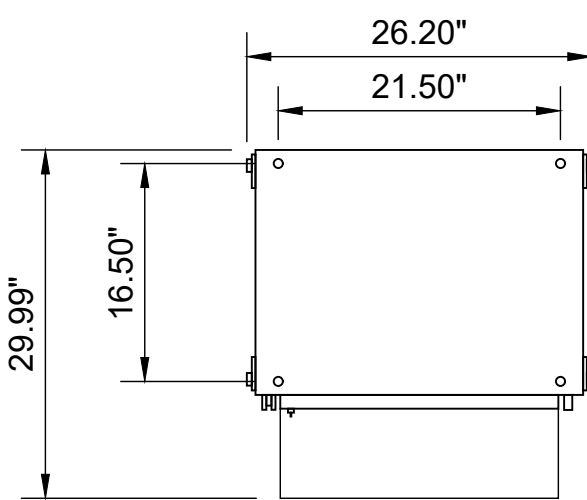
(E) RRUS-4449 B5/B12 SPECIFICATIONS

5

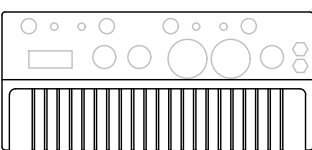
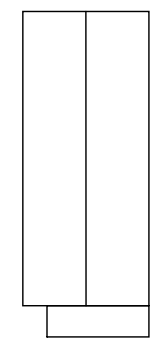
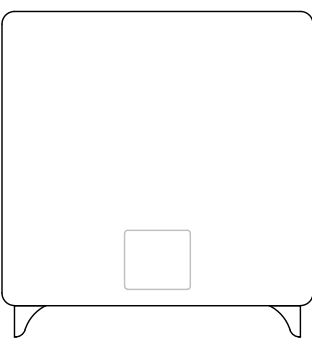
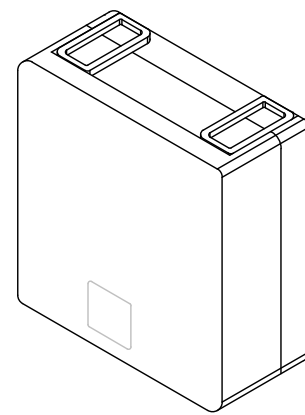
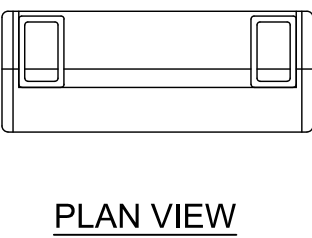
(N) QUINTEL - QD4612-3D

2

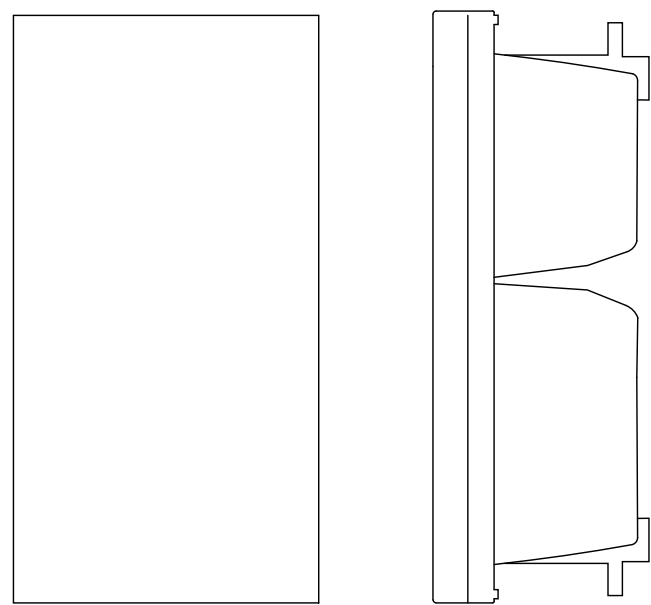
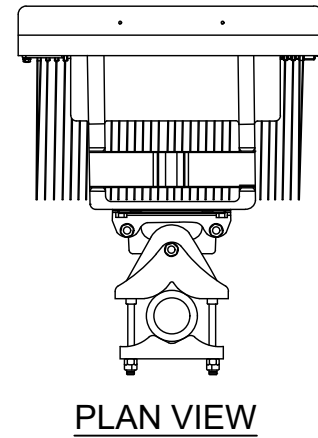
FLX21-2520
DIMENSIONS, HxWxD: 39.70"x26.20"x29.99"
POWER CONSUMPTION: 655 WATTS MAX.
TOTAL WEIGHT: 140 lbs



ERICSSON: RRUS-2012 B29
MANUFACTURER: ERICSSON
MODEL NUMBER: 2012 B29
DIMENSIONS (HxWxD): 16.5"x13.4"x4.9"
TOTAL WEIGHT: 43.1 LBS



ERICSSON: AIR 6449 B77D
MANUFACTURER: ERICSSON
MODEL NUMBER: AIR6449 B77D
DIMENSIONS (HxWxD): 30.60"x15.9"x10.6"
TOTAL WEIGHT: 83.8 LBS (WITHOUT RET OR MOUNTING HARDWARE)



IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET TITLE

DETAILS

SHEET NUMBER

D-5

(N) PURCELL CABINET

9

(N) RRUS-2012 B29 SPECIFICATIONS

6

(N) ERICSSON - AIR6449 B77D ANTENNA

3

Construction

- Utilizes TPPL technology. Thin positive grids are produced from high purity lead using a unique manufacturing process to maximize corrosion resistance and service life while increasing energy density
- Separators are AGM made from high purity, superior quality fibers. The electrolyte is absorbed within the AGM, preventing acid spills in case of accidental damage
- Electrolyte is produced from extremely high purity acid to reduce self-discharge rates and float currents
- Container and cover made from flame retardant UL94-V0 material, highly resistant to shock and vibration
- Front terminal batteries use tin-plated copper terminals.
- Self-regulating one way pressure relief valves prevent ingress of atmospheric oxygen

Installation and Operation

- Space efficient footprint
- VRLA design, reduces maintenance requirements
- Lifting handles for easy handling
- Greater than 10 year life expectancy in float service at 77°F (25°C)
- TPPL technology provides increased active material surface area which yields increased energy density
- Operating temperature:
-40°F (-40°C) to 122°F (50°C)
Recommended temperature:
68°F (20°C) to 86°F (30°C)

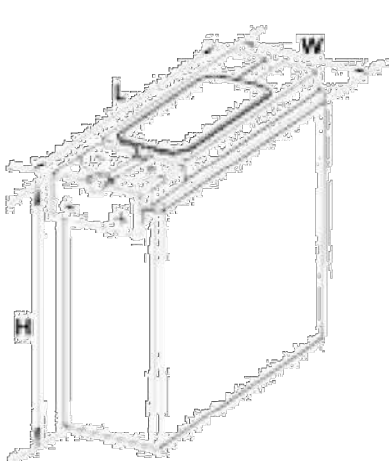
Standards

- Approved as non-hazardous cargo for ground, sea and air transportation in accordance with US DOT Regulation 49 and ICAO & IATA Packing Instruction 806. Please see our SDS for complete details at www.enersys.com
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

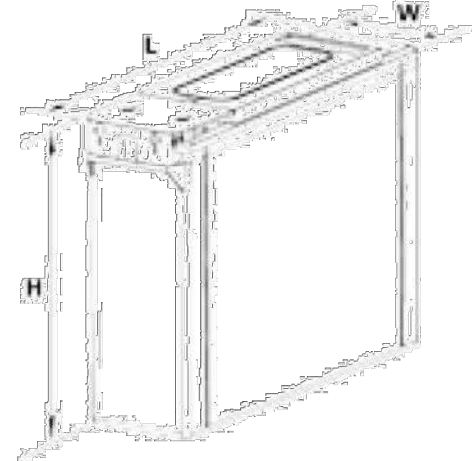
General Specifications

			Nominal Capacity		Nominal Dimensions							Electrolyte (1.300 S.G.)					Pure Acid (H ₂ SO ₄) Acid								
PowerSafe® SBS Battery	Number of Cells	Nominal Voltage (V)	8hr. Rate 1.75Vpc @ 77°F	10hr. Rate 1.80Vpc @ 20°F	Length in	mm	Width in	mm	Height in	mm	Typical Weight lbs	kg	Short Circuit Current (Amps)	Internal** Resistance Milli-Ohms	Terminals	Volume (per bloc) gal	Weight (per bloc) lbs	Volume (per bloc) gal	Weight (per bloc) lbs	Lead Weight (per bloc) lbs	kg				
SBS B8F	6	12	31	31	11.9	303	3.80	97.0	6.26	159	22.7	10.3	1270	10.0	M6 M	0.37	1.42	4.05	1.84	0.11	0.40	1.61	0.73	15.6	7.08
SBS B10F	6	12	38	38	11.9	303	3.80	97.0	7.24	184	28.2	12.8	1390	9.00	M6 M	0.48	1.80	5.1	52.34	0.13	0.51	2.04	0.93	17.7	8.03
SBS B14F	6	12	62	62	11.9	303	3.80	97.0	10.4	264	42.0	19.1	1800	7.00	M6 M	0.78	2.95	8.4	53.83	0.22	0.83	3.35	1.52	29.6	13.4
SBS C11F	6	12	92	91	16.4	417	4.10	105	10.1	256	61.6	27.9	2300	5.50	M6 M	1.28	4.85	13.9	5.50	0.36	1.36	5.50	2.49	43.4	19.7
SBS 100F	6	12	100	100	15.6	395	4.30	108	11.3	287	71.9	32.6	2210	5.60	M6 M	1.34	5.09	14.6	6.60	0.38	1.43	5.77	2.62	49.7	22.5
SBS 112F	6	12	112	112	22.1	561	4.90	125	8.98	228	90.4	41.0	2500	5.00	M6 M	1.71	6.48	18.5	8.41	0.48	1.82	7.35	3.34	56.8	25.8
SBS 145F	6	12	145	145	17.8	452	6.80	172	9.37	238	105	47.6	4100	3.00	M6 M	2.25	8.51	24.3	11.0	0.63	2.39	9.66	4.38	72.4	32.8
SBS 165F	6	12	165	165	17.8	452	6.77	172	10.8	274	117	52.8	3700	2.30	M6 M	2.45	9.27	26.5	12.0	0.64	2.42	9.72	4.41	82.7	37.5
SBS 170F	6	12	170	170	22.1	561	4.90	125	11.1	283	116	52.5	3400	4.00	M6 M	2.09	7.92	22.7	10.3	0.59	2.23	8.99	4.08	82.0	37.2
SBS 190F	6	12	190	190	22.1	561	4.90	125	12.4	316	132	60.0	3800	3.30	M6 M	2.34	8.86	25.3	11.5	0.66	2.49	10.1	4.56	95.8	43.4

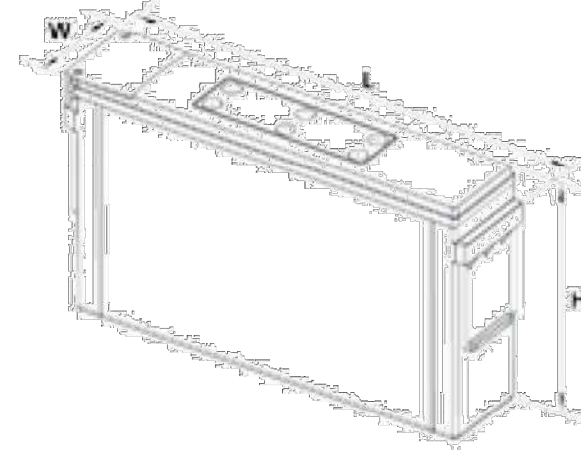
**Resistance values are for reference only and not intended to represent an Ohmic Value or Baseline measurement



SBS B8F - B14F
SBS C11F



SBS 100F - 112F



SBS 145F, 165F - 190F

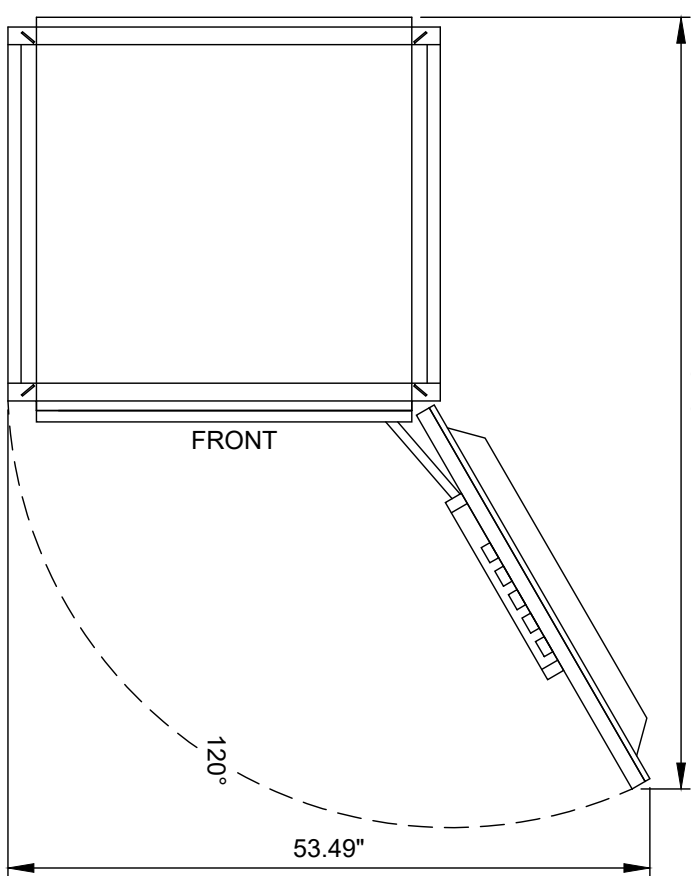
BATTERY STORAGE SYSTEM CAPACITY

BATTERY TECHNOLOGY	LEAD ACID
QUANTITY OF EXISTING BATTERIES	0
QUANTITY OF NEW BATTERIES	28
QUANTITY OF TOTAL BATTERIES	28
(E) BATTERY STORAGE SYSTEM CAPACITY	0
(N) BATTERY STORAGE SYSTEM CAPACITY	180AH/ BATTERY- 7 STRINGS 60.48 kWh
TOTAL BATTERY STORAGE SYSTEM CAPACITY	60.48 kWh

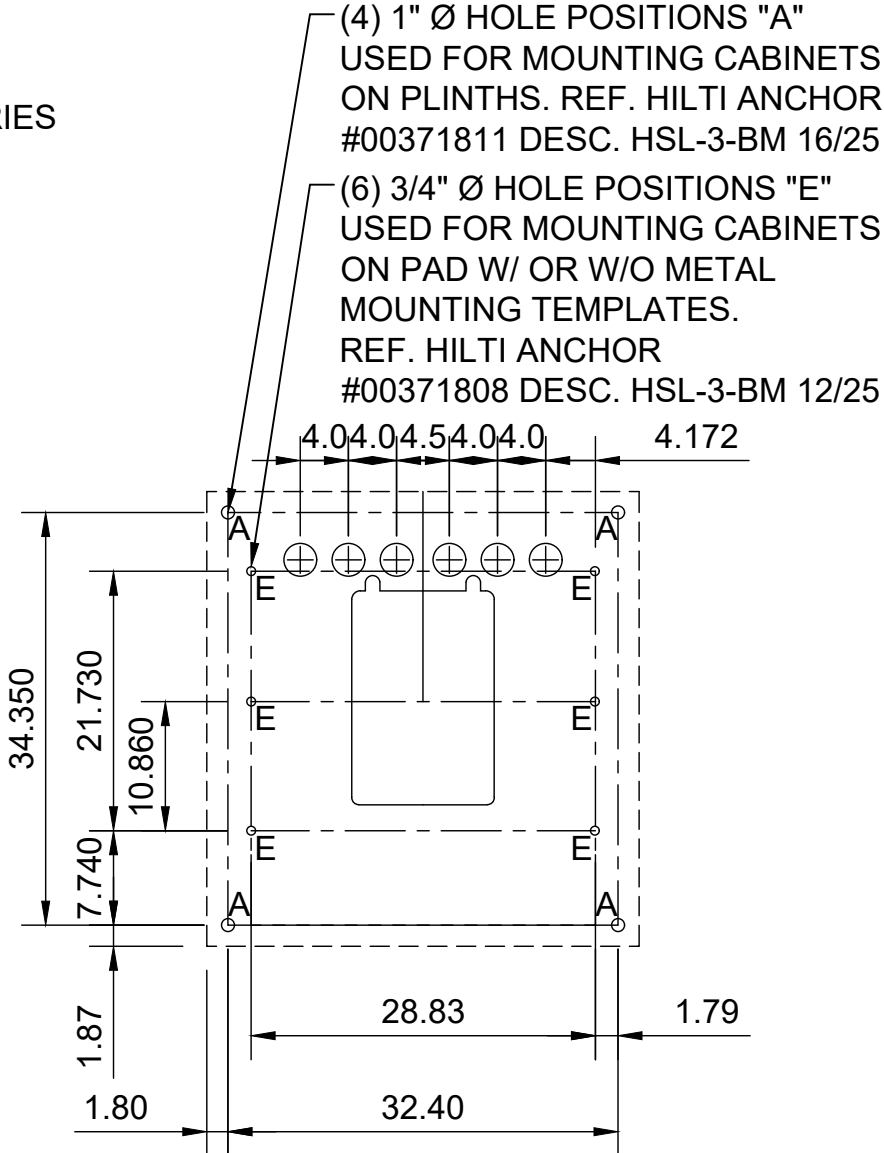
TOTAL STORAGE SYSTEM CAPACITY IS LESS THAN 70kWh.

EMERSON OUTDOOR NEXTEND FLEX BATTERY ENCLOSURE

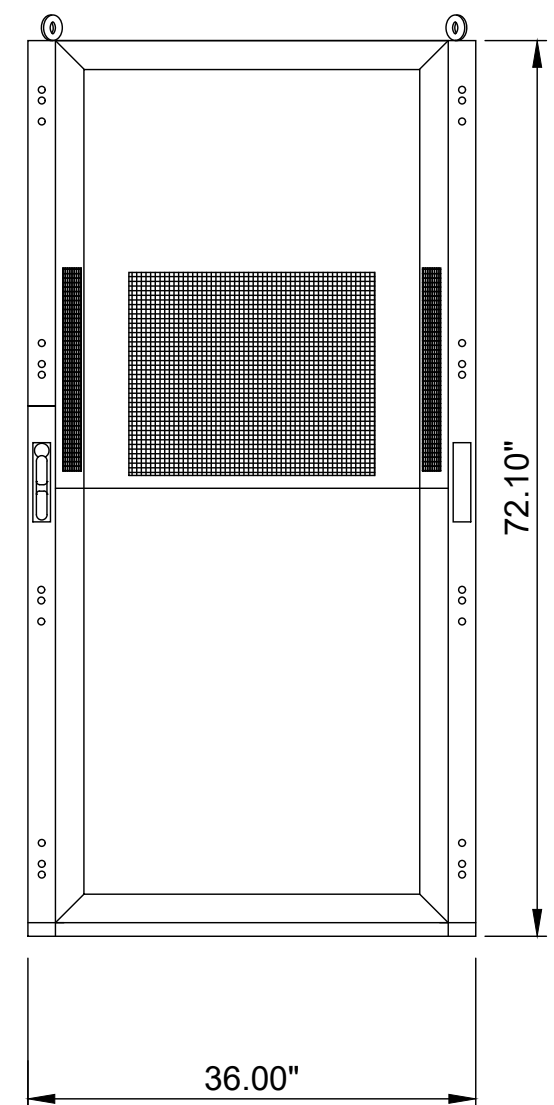
AT&T NUMBER: NEQ.15918
VERTIV NUMBER: F2012495
DIMENSIONS, HxWxD: 72.1"x36.0"x36.8"
WEIGHT: 2944 lbs WITH (8) BATTERIES



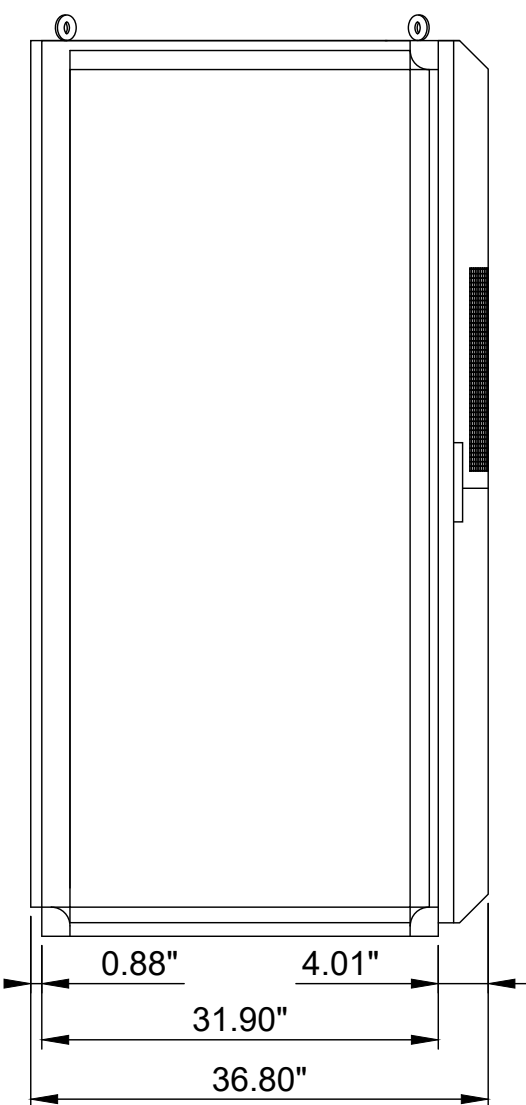
TOP VIEW



BOLT PATTERN



FRONT VIEW

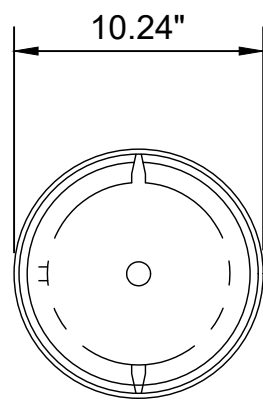


LEFT SIDE VIEW

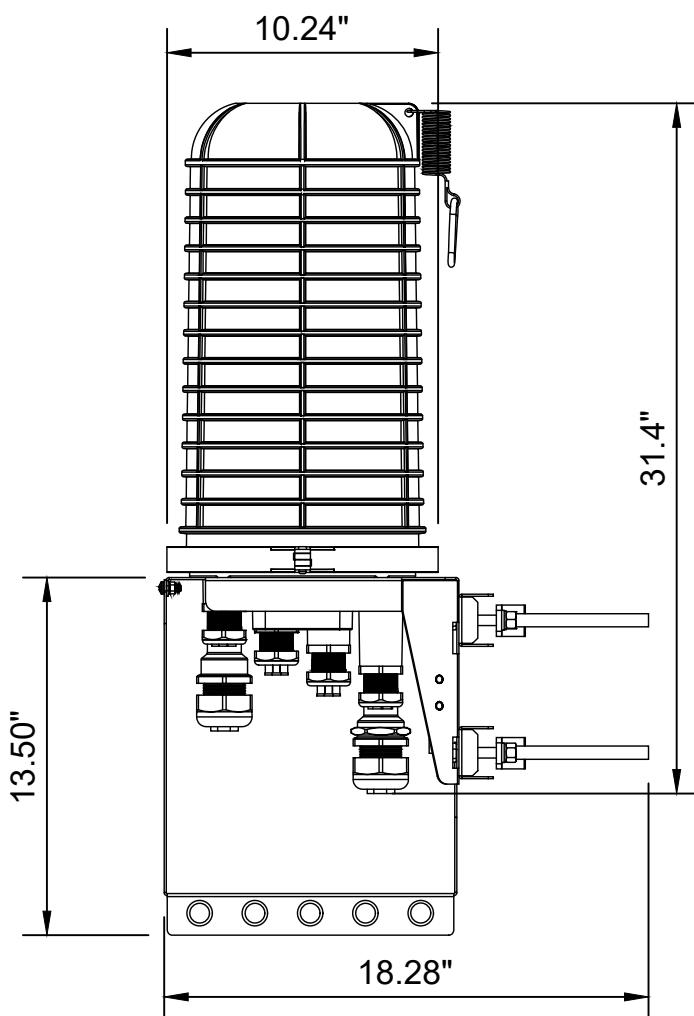
(N) BATTERY SPECIFICATIONS

RAYCAP DC9-48-60-24-8C-EV

DIMENSIONS, WXDxH: 31.4"x10.24"x18.28"
NOMINAL OPERATING VOLTAGE: 48 VDC
NOMINAL DISCHARGE CURRENT: 20 kA 8/20ms
MAXIMUM DISCHARGE CURRENT: 12.5 kA 10/350ms
MAXIMUM CONTINUOUS OPERATING VOLTAGE: 60 VDC
VOLTAGE PROTECTION RATING: 330 V
WIND LOADING: 150 MPH (SUSTAINED)
195 MPH (GUST)
TOTAL WEIGHT: 28.7 LBS



PLAN VIEW

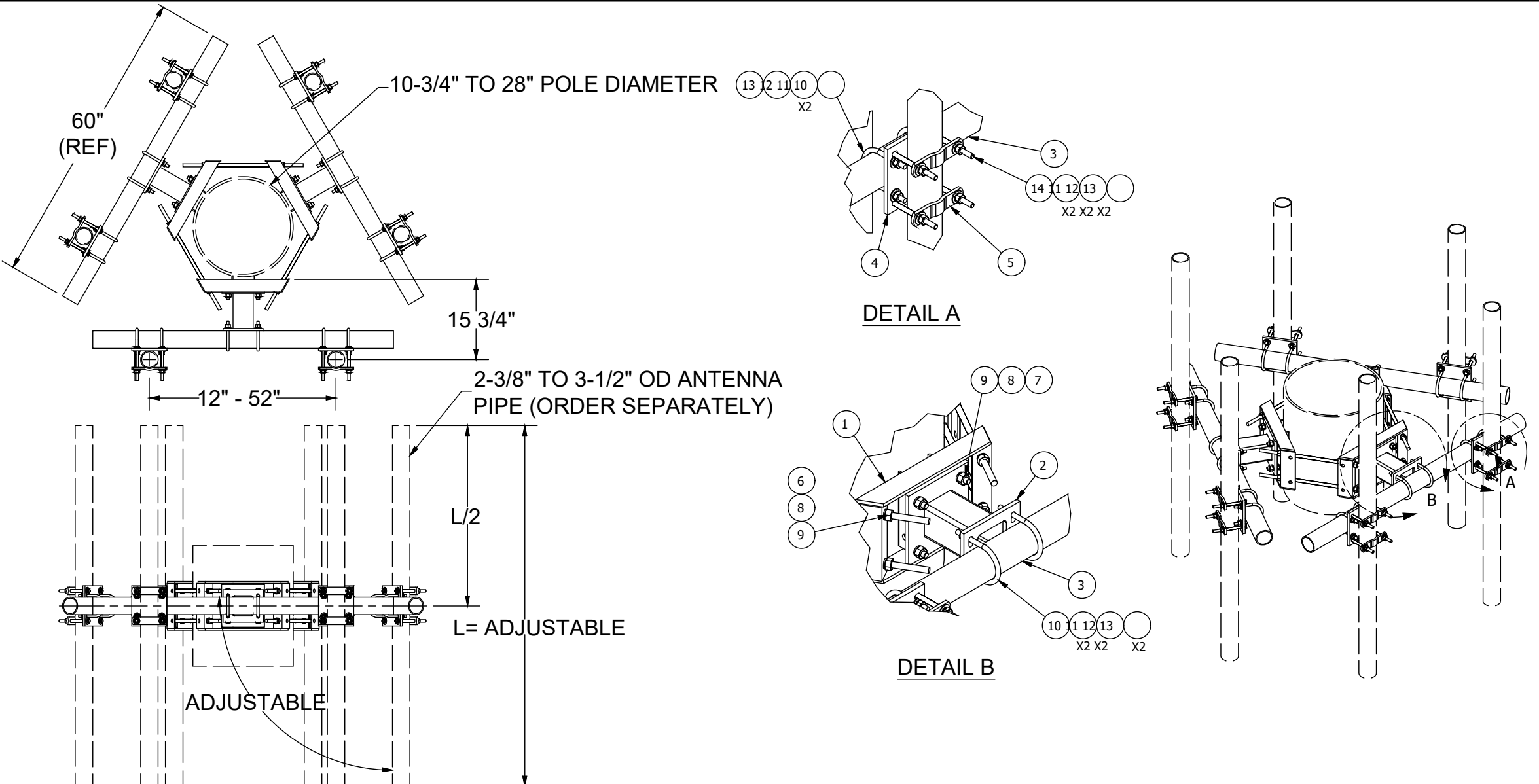


SIDE VIEW

SITE PRO1: UDS-NP (ASSEMBLY)
DUAL POLE RING MOUNT

ITEM QTY		PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-UGLM	MINI RING MOUNT WELDMENT		21.67	65.00
2	3	X-WWM01	8" STAND-OFF ARM / WALL MOUNT		18.12	54.37
3	3	P360	3-1/2" X 60" (3" SCH 40) GALVANIZED PIPE	60 in	37.97	113.90
4	6	SC92	CROSSOVER PLATE	8 in	7.55	45.29
5	12	X-115765	5" V-CLAMP	7 1/16 in	1.03	12.31
6	6	G58R-14	5/8" x 14" THREADED ROD (HDG.)	14 in	0.40	2.39
6	6	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	2.39
7	12	G5802	5/8" x 2" HDG HEX BOLT GR5	2 in	0.27	3.24
8	24	G58LW	5/8" HDG LOCKWASHER		0.03	0.63
9	24	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.12
10	18	X-UB1358	1/2" X 3-5/8" x 5-1/2" X 3" U-BOLT	5 1/2 in	0.77	13.90
11	84	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.86
12	60	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.83
13	60	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	4.30
14	24	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	9.83
14	24	G12045	1/2" x 4-5" HDG HEX BOLT GR5 FULL THREAD	4 1/2 in	0.30	7.15
				TOTAL WT. # 356.53		

NOTE:
FOR POLE SIZES 28" TO 42" DIAMETER
ORDER SEPARATELY
PART# "LP-42"



(N) DC-9 SURGE PROTECTION DETAIL

(N) DUAL POLE MOUNT ASSEMBLY SPECIFICATION

CCL00357
HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE



5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583



4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

PLANS PREPARED BY:



REV	DATE	DESCRIPTION	INT
1	07/11/2022	RFDS UPDATE	GCA
0	6/23/2022	100% CDS	GCA
B	5/17/2022	95% CDS	KD
A	2/18/2022	90% CDS	RAR



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OF A LICENSED PROFESSIONAL ENGINEER,
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SHEET TITLE

DETAILS

SHEET NUMBER

D-6

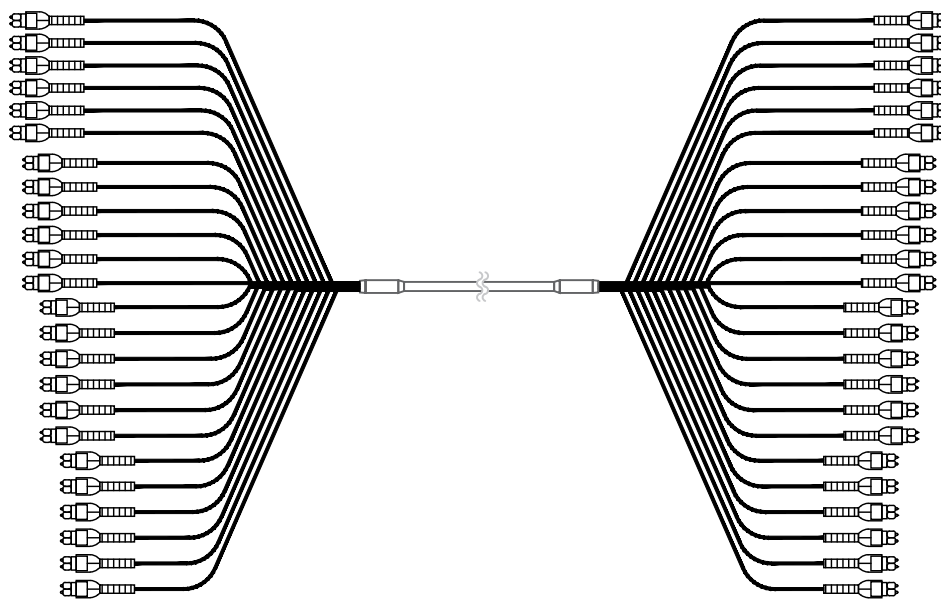



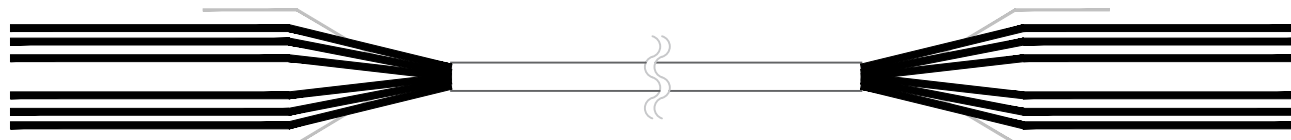
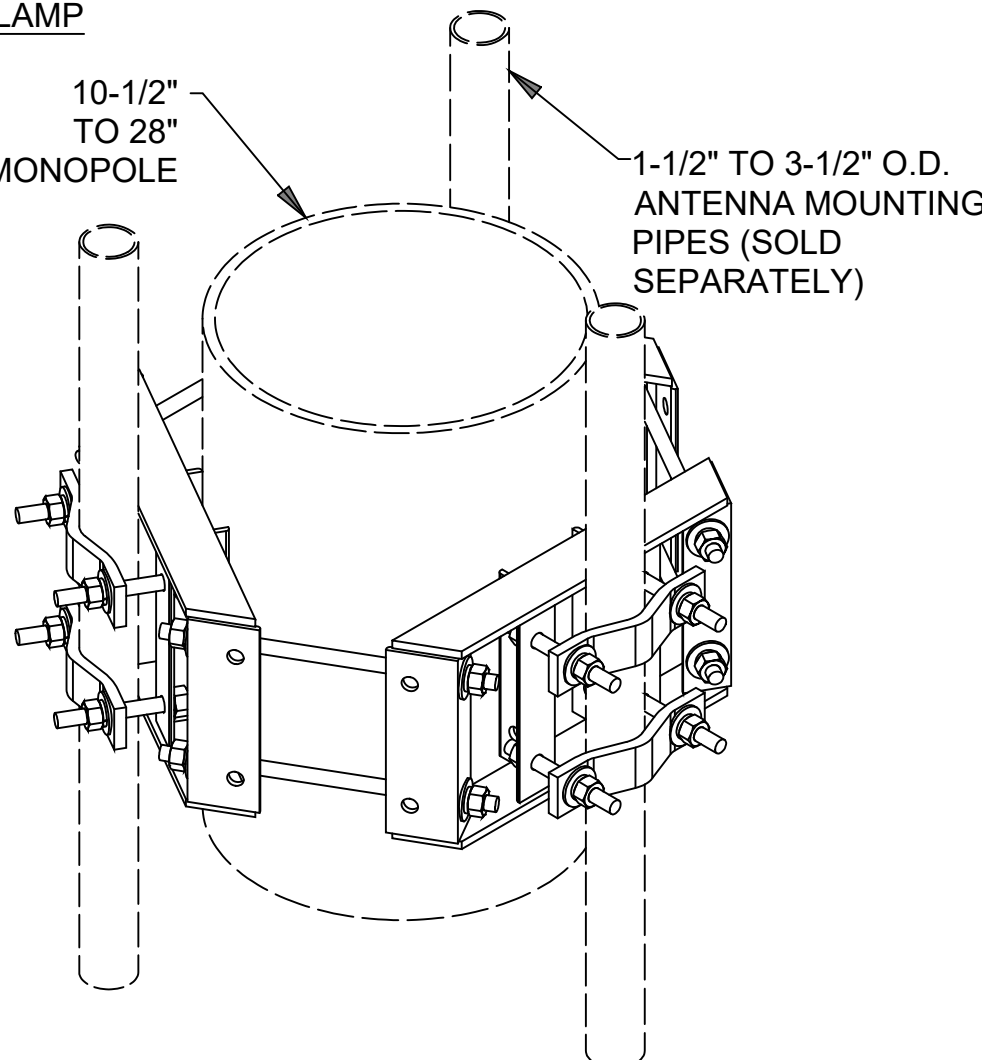
				<div>FIBER CABLE ASSEMBLY: RFFT-48SM-001-50M</div> <div>FIBER TYPE: G.657.A2</div> <div>TOTAL FIBERS: 48</div> <div>JACKET COLOR: BLACK</div> <div>CORD LENGTH: 50.00 m 164.04 ft</div> <div>CABLE WEIGHT: 91.0 kg/km</div> <div>DIAM. OVER JACKET: 10.28 mm 0.40 in</div> <div>CONSTRUCTION TYPE: DISCRETE FIBER TRUNK</div> <div>MIN. BEND RADIUS: 10.3 cm 4.0 in</div> <div>MIN. BEND RADIUS, FURCATION: 30.0 mm 1.2 in</div> <div></div>		<div>CCL00357</div> <div>HAMPTON</div> <div>1594 HAMPTON</div> <div>SANTA ROSA, CA 95407</div> <div>75'–0" MONOPOLE</div> <div></div> <div>5001 EXECUTIVE PKWY.</div> <div>SAN RAMON, CA 94583</div> <div></div> <div>ERICSSON</div> <div>4120 DUBLIN BLVD STE</div> <div>450 DUBLIN,</div> <div>CALIFORNIA 94568</div> <div>PLANS PREPARED BY:</div> <div></div> <div>Pramira</div> <div>ARCHITECTURAL & ENGINEERING SERVICES</div> <table><tr><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>07/11/2022</td><td>RFDS UPDATE</td><td>GCA</td></tr><tr><td>0</td><td>6/23/2022</td><td>100% CDS</td><td>GCA</td></tr><tr><td>B</td><td>5/17/2022</td><td>95% CDS</td><td>KD</td></tr><tr><td>A</td><td>2/18/2022</td><td>90% CDS</td><td>RAR</td></tr><tr><td>REV</td><td>DATE</td><td>DESCRIPTION</td><td>INT</td></tr></table>					1	07/11/2022	RFDS UPDATE	GCA	0	6/23/2022	100% CDS	GCA	B	5/17/2022	95% CDS	KD	A	2/18/2022	90% CDS	RAR	REV	DATE	DESCRIPTION	INT
1	07/11/2022	RFDS UPDATE	GCA																											
0	6/23/2022	100% CDS	GCA																											
B	5/17/2022	95% CDS	KD																											
A	2/18/2022	90% CDS	RAR																											
REV	DATE	DESCRIPTION	INT																											
NOT USED	7	NOT USED	4	(N) FIBER CABLE ASSEMBLY - RFFT-48SM-001-50M	1																									
				<div>POWER CABLE: PWRT-606-S</div> <div>CABLE TYPE: POWER</div> <div>TOTAL CONDUCTORS: 6</div> <div>JACKET COLOR: BLACK</div> <div>DIAM. OVER CONDUCTOR: 0.1790 in per 19 strands</div> <div>DIAM. OVER DIELECTRIC: 6.325 mm 0.249 in</div> <div>DIAM. OVER DRAIN WIRE: 2.5700 in per 7 strands</div> <div>CABLE WEIGHT: 1324.466 kg/km 890 lb/kft</div> <div></div>																										
NOT USED	8	NOT USED	5	(N) POWER CABLE - PWRT-606-S	2																									
				<div>SITE PRO1: UGLM-DCP</div> <div>LIGHTWEIGHT RING MOUNT AND 5-3/4" V-CLAMP</div> <div>10-1/2" TO 28" MONOPOLE</div> <div>1-1/2" TO 3-1/2" O.D. ANTENNA MOUNTING PIPES (SOLD SEPARATELY)</div> <div></div>																										
NOT USED	9	NOT USED	6	(N) COLLAR MOUNT	3																									

Diagram - Sector A
Diagram File Name - 79583-CNU0357-4495599_CBand_DoD_v2.vsd
Atoll Site Name - CNU0357
Location Name - HAMPTON
Market - SAN FRANCISCO
Market Cluster - SAN FRANCISCO/SACRAMENT O

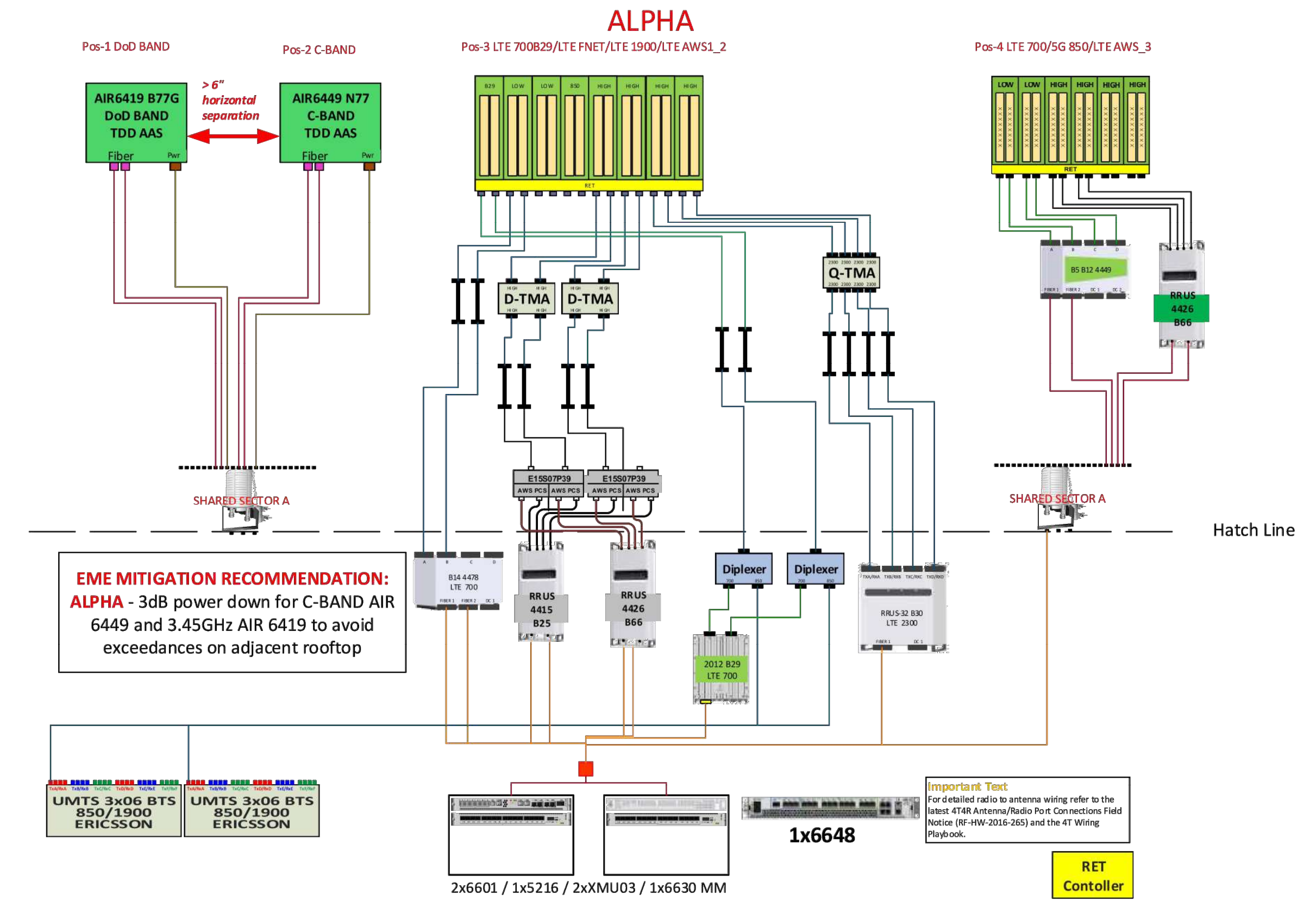


Diagram - Sector A
Diagram File Name - 79583-CNU0357-4495599_CBand_DoD_v2.vsd
Atoll Site Name - CNU0357
Location Name - HAMPTON
Market - SAN FRANCISCO
Market Cluster - SAN FRANCISCO/SACRAMENT O

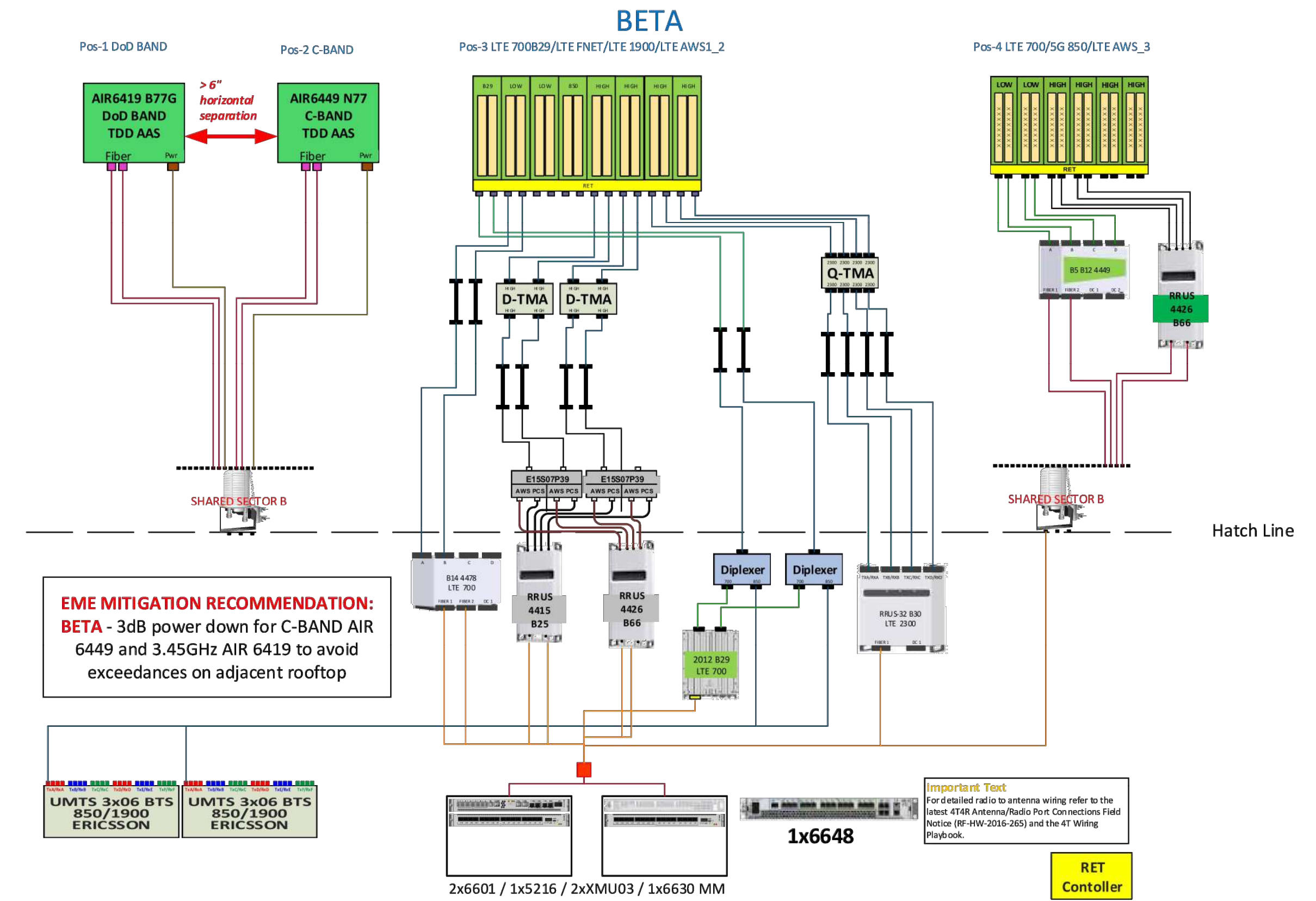
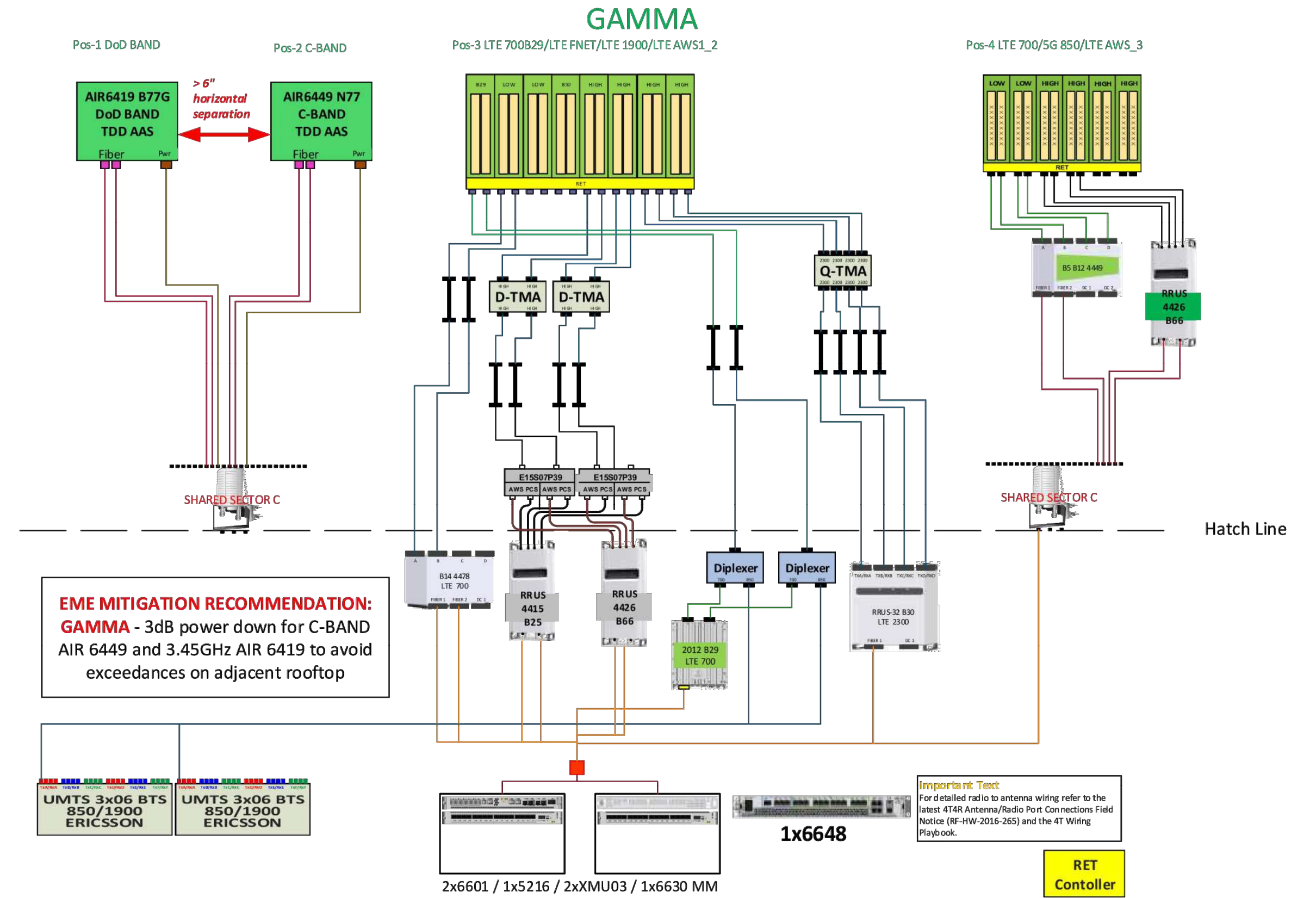


Diagram - Sector A
Diagram File Name - 79583-CNU0357-4495599_CBand_DoD_v2.vsd
Atoll Site Name - CNU0357
Location Name - HAMPTON
Market - SAN FRANCISCO
Market Cluster - SAN FRANCISCO/SACRAMENT O



CCL00357
HAMPTON
1594 HAMPTON
SANTA ROSA, CA 95407
75'-0" MONOPOLE



5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583



4120 DUBLIN BLVD STE
450 DUBLIN,
CALIFORNIA 94568

PLANS PREPARED BY:



REV	DATE	DESCRIPTION	INT
1	07/11/2022	RFDS UPDATE	GCA
0	6/23/2022	100% CDS	GCA
B	5/17/2022	95% CDS	KD
A	2/18/2022	90% CDS	RAR



IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET TITLE

RFDS

SHEET NUMBER

RF-1