

SHEET INDEX

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	DETAILED SITE POWER CALCULATION ATTACHED

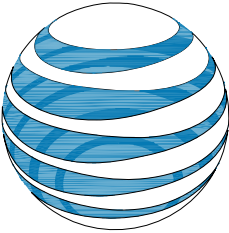
DRIVING DIRECTIONS

SCAN QR CODE FOR LINK TO SITE LOCATION MAP



SITE LOCATION MAP





AT&T

mobility corp.

PRODUCT GROUP

CELL SITE RF MODIFICATIONS

PRODUCT SUB GROUP

5G NR RRH SWAP

JOB ID

WSKSL0044575

ORACLE PTN

3202A1CSMY

CELL SITE RF MODIFICATIONS

LTE RRH SWAP

WSKSL0043299

3202A1CW4S

CELL SITE RF MODIFICATIONS

5G NR RRH SWAP

WSKSL0042270

3202A1CTG3

CELL SITE RF MODIFICATIONS

LTE 1C RRH SWAP

WSKSL0039361

3202A1D185

CELL SITE RF MODIFICATIONS

LTE RRH SWAP

WSKSL0043516

3202A1CSX7

MOKS MARKET

NOKIA MARKET MODERNIZATION

SITE NAME

GREEN

SITE NUMBER

KSL04130

FA LOCATION CODE:

10000343

IWM #:

WSKSL0039361

SITE ADDRESS

202 EAST THIRD STREET
LEES SUMMIT, MO 64063

STRUCTURE TYPE

MONOPOLE



AT&T

mobility corp.

12930 OLIVE BLVD
CREVE COEUR, MO 63141

PROJECT MANAGER



CIVIL SUPPLIER



Network
Real Estate LLC

5055 Hwy N, Suite 200
St. Charles, MO 63304

SITE ACQUISITION



Fullerton

DESIGN DEVELOP CONSTRUCT

1100 E. WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173
TEL: 847-908-8400
www.fullerton-us.com

ENGINEER

PROJECT SUMMARY

SITE NAME:

GREEN

SITE NO:

KSL04130

FA LOCATION CODE:

10000343

SITE ADDRESS:

202 EAST THIRD STREET
LEES SUMMIT, MO 64063
JACKSON

COUNTY:

JACKSON

SITE COORDINATES

(FROM RFDS)

LATITUDE:

38.91389°

LONGITUDE:

-94.37417°

GROUND ELEVATION:

1043' (AMSL)

STRUCTURE TYPE:

MONOPOLE

JURISDICTION:

CITY OF LEE'S SUMMIT MO

APPLICANT:

AT&T
12930 OLIVE BLVD
CREVE COEUR, MO 63141

TOWER OWNER:

HOSIER TOWERS

TOWER OWNER SITE ID:

HTMO1589

CODE COMPLIANCE

BUILDING CODE:

2018 INTERNATIONAL BUILDING CODE

ELECTRICAL CODE:

2014 NATIONAL ELECTRICAL CODE

SCOPE OF WORK

WARM SWAP
TOWER WORK:

- EXISTING PLATFORM TO BE REMOVED
- (6) EXISTING QUINTEL QS86512-2 ANTENNAS TO BE REMOVED
- (3) EXISTING SBNHH-ID65C ANTENNAS TO BE REMOVED
- (3) EXISTING AEQK ANTENNAS TO BE REMOVED
- (3) EXISTING AHLBBA RRH UNITS TO BE REMOVED
- (3) EXISTING AHCA RRH UNITS TO BE REMOVED
- (3) EXISTING B25 RRH4X30-4R RRH UNITS TO BE REMOVED
- (3) EXISTING B66 RRH4X45-4R RRH UNITS TO BE REMOVED
- (3) EXISTING RRH4X25-WCS-4R RRH UNITS TO BE REMOVED
- (3) EXISTING TT08-19DB111-001 TMA UNITS TO BE REMOVED
- (2) EXISTING DC6-48-60-18-8C RAYCAP UNITS TO BE RELOCATED
- (1) EXISTING DC6-48-60-0-8C RAYCAP UNIT TO BE RELOCATED
- (2) EXISTING 18 PAIR FIBER TRUNKS TO REMAIN
- (6) EXISTING 8 AWG DC TRUNKS TO REMAIN
- (6) NEW NNH4-65C-R6-V4 ANTENNAS
- (3) NEW AIR6472 B77G B77M ANTENNAS
- (3) NEW 4490 B5/B12A, 4471 B30, 4494 B14/B29 AND 4890 B25/B66 RRH UNITS

GROUND WORK:

- EXISTING (2) C48/24-1500 CONVERTERS TO BE REMOVED
- EXISTING (1) VERTIV 5100 TO REMAIN
- EXISTING (8) R48-2000E3 RECTIFIERS TO REMAIN
- EXISTING (12) 190F BATTERIES TO REMAIN
- EXISTING (2) DC12-48-60-0-RM RAYCAP UNITS TO REMAIN
- INSTALL (1) -58V CONVERSION KIT
- INSTALL (7) C48/58-2000P3 CONVERTERS
- INSTALL (2) R48-2000E3 RECTIFIERS
- INSTALL (1) 6610 SITE CONTROLLER, (1) 6672 BBU

APPROVALS

AT&T CONST.		DATE
AT&T RF		DATE
AT&T OPS		DATE
LANDLORD		DATE

DRAWING SCALED TO 11"x17"



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12930 OLIVE BLVD
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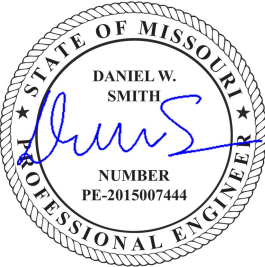
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SITE NAME

GREEN

SITE NO.

KSL04130

SITE ADDRESS

202 EAST THIRD STREET
LEES SUMMIT, MO 64063

SHEET NAME

TITLE SHEET

SHEET NUMBER

T-1

NOTES:

- HANDICAP ACCESS REQUIREMENTS ARE NOT REQUIRED
- FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
- FACILITY HAS NO PLUMBING OR REFRIGERANTS
- THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS
- ALL NEW MATERIAL SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE. CABINETS, ANTENNAS/RRU AND CABLES FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR

PROJECT# 2024.0078.0006

GENERAL NOTES:

- A. PURPOSE AND INTENT:
- 1. THE DRAWING AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY, HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED, OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED, OR SPECIFIED IN BOTH. SHOULD THERE BE ANY DISCREPANCIES BETWEEN REQUIREMENTS SHOWN IN BOTH, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
 - 2. THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
- B. CONFLICTS:
- 1. VERIFY ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIAL OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS OR DIMENSIONS SHOWN ON PLANS. SUBMIT NOTICE OF ANY DISCREPANCY IN DIMENSIONS OR OTHERWISE TO AT&T FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
 - 2. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OF CONDITIONS THAT MAY BE ENCOUNTERED, OR OF ANY OTHER RELEVANT MATTER CONCERNING THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS GOVERNING THE WORK.
- C. CLEANING: KEEP THE SITE FREE FROM ACCUMULATION OF WASTE AND RUBBISH CAUSED BY EMPLOYEES. AT THE COMPLETION OF THE WORK, REMOVE ALL WASTE AND NON-CONSTRUCTION MATERIAL, INCLUDING ALL CONTRACTOR TOOLS, SCAFFOLDING, AND SURPLUS MATERIAL AND LEAVE SITE CLEAN AND READY FOR USE.
- D. CODES: CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL LAWS, REGULATIONS, AND RULES PROMULGATED BY FEDERAL STATE AND LOCAL AUTHORITIES WITH JURISDICTION OVER THE PROJECT. THIS RESPONSIBILITY IS IN EFFECT REGARDLESS OF WHETHER THE LAW, ORDINANCE, REGULATION OR RULE IS MENTIONED IN THESE SPECIFICATIONS.
- E. LICENSING: CONTRACTOR SHALL HAVE AND MAINTAIN A VALID CONTRACTOR'S LICENSE FOR THE LOCATION IN WHICH THE WORK IS TO BE PERFORMED. FOR JURISDICTIONS THAT LICENSE INDIVIDUAL TRADES, THE TRADESMAN OR SUBCONTRACTOR PERFORMING THOSE TRADES SHALL BE LICENSED. RESEARCH AND COMPLY WITH THE LICENSING LAWS, PAY LICENSE FEES, AND SELECT AND INFORM SUBCONTRACTORS REGARDING THESE LAWS.
- F. OSHA: FOLLOW ALL APPLICABLE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS AND STATE LAWS BASED IN THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT. THESE REGULATIONS INCLUDE, BUT ARE NOT LIMITED TO, REGULATIONS DEALING WITH TOWER CONSTRUCTION AND SAFETY, EXCAVATIONS AND TRENCHING, AND WORK IN CONFINED SPACES. ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES DURING CONSTRUCTION.
- G. PHOTOS: PROVIDE PHOTOGRAPHIC EVIDENCE OF ALL FOUNDATION INSTALLATION, GROUNDING, AND TRENCHING AFTER PLACEMENT OF UTILITIES PRIOR TO BACKFILL.
- H. BUILDING PERMITS: CONTRACTOR WILL SUBMIT CONSTRUCTION DOCUMENTS TO THE JURISDICTIONAL AUTHORITY FOR PLAN CHECK AND REVIEW. CONTRACTOR WILL SUBMIT LICENSING AND WORKMAN'S COMPENSATION INFORMATION TO THE JURISDICTION AS REQUIRED TO OBTAIN THE BUILDING PERMIT. CONTRACTOR SHALL COORDINATE AND SCHEDULE REQUIRED INSPECTIONS AND POST REQUIRED PERMITS AT THE JOB SITE. COMPLY WITH SPECIFIC PROJECT-RELATED REQUESTS AND SUGGESTION MADE BY BUILDING INSPECTOR, AND INFORM CONSTRUCTION MANAGER OF ANY SUCH WORK THAT MAY BE BEYOND THE SCOPE OF THE CONTRACT OR DEVIATE FROM THE CONSTRUCTION DOCUMENTS, AT&T WILL REIMBURSE THE CONTRACTOR FOR FEES, FOR PLAN REVIEW, BUILDING PERMIT, CONNECTIONS, AND INSPECTION. (INCLUDED IN THE BASE PROPOSAL)
- I. ZONING REGULATIONS AND CONDITIONAL USE PERMITS: CONTRACTOR WILL SUBMIT FOR AND OBTAIN ALL ZONING AND CONDITIONAL USE PERMITS, SOME USE PERMITS MAY HAVE SPECIFIC REQUIREMENTS FOR THE SITE RELATED TO CONSTRUCTION, SUCH AS NOISE REGULATIONS, HOURS OF WORK, ACCESS LIMITATIONS, ETC. THE CONSTRUCTION MANAGER WILL INFORM THE CONTRACTOR OF THESE REQUIREMENTS AT THE PRE-BID MEETING OR AS SHOWN IN THE CONSTRUCTION DOCUMENTS.
- J. FAA PERMIT AND TOWER LIGHTING: REFER TO CONSTRUCTION DOCUMENTS AND CONSTRUCTION MANAGER FOR FAA AND STATE LIGHTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE TEMPORARY FM APPROVED LIGHTING UNTIL PERMANENT LIGHTING IS OPERATIONAL.
- K. TOWER SECURITY: IF REQUIRED, TOWER MUST BE FENCED, TEMPORARILY OR PERMANENTLY WITHIN 24 HOURS OF ERECTION. DO NOT ALLOW THE GATE ACCESSING THE TOWER AREA TO REMAIN OPEN OR UNATTENDED ANY TIME FOR ANY REASON. KEEP THE GATE CLOSED AND LOCKED WHEN NOT IN USE.
- L. SITE CONTROL:
- 1. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENT AND CONTROL OF EROSION AT THE SITE. ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO AT&T.
 - 2. THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE.
 - 3. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY THE CONSTRUCTION MANAGER AND IN ACCORDANCE WITH JURISDICTIONAL AUTHORITIES.

GENERAL NOTES

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS. CONTRACTOR SHALL REMOVE AND DISPOSE OFF SITE ALL RUBBISH, WASTE MATERIALS, LITTER AND ALL FOREIGN SUBSTANCES. REMOVE PETROCHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN-TEXTURED SURFACE.
- 3. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA. EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED, IN PARTICULAR. THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATIONS OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXCAVATION ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST CALL LOCAL UTILITY LOCATOR COMPANY.
- 4. THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER OR THE OWNER'S REPRESENTATIVE.
- 5. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT
- 6. THE CONTRACTOR SHALL RESTORE ALL DAMAGED, PUBLIC OR PRIVATE, PROPERTY TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE
- 7. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
- 8. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED.
- 9. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA REGULATIONS FOR CONSTRUCTION.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
- 11. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
- 12. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- 13. ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS AS DEFINED BY THE OWNER OR OWNER'S REPRESENTATIVE ON THE DRAWINGS OR GEOTECHNICAL REPORT RECOMMENDATIONS
- 14. CONTRACTOR TO GRADE ALL AREAS OF THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING OR EQUIPMENT PAD AND THE TOWER.
- 15. IF NECESSARY, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND REGRADING ROADWAY AND ANY DISTURBED AREAS FOLLOWING INSTALLATION OF UTILITIES.
- 16. NO COMMERCIAL MESSAGES TO BE DISPLAYED ON TOWER
- 17. WATER AND SEWER SERVICES ARE NOT REQUIRED FOR THIS DEVELOPMENT
- 18. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS UNLESS NOTED.



AT&T
mobility corp.

12930 OLIVE BLVD
CREVE COEUR, MO 63141





DESIGN DEVELOP CONSTRUCT

1100 E. WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173
TEL: 847-908-8400
COA# E2019038761
www.fullerton-us.com

#	DATE	DESCRIPTION	INT.
A	04/04/25	90% REVIEW	BH
B	04/14/25	95% REVIEW	BH
0	06/05/25	FINAL	BH

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SITE NAME

GREEN

SITE NO.

KSL04130

SITE ADDRESS

202 EAST THIRD STREET
LEES SUMMIT, MO 64063

SHEET NAME

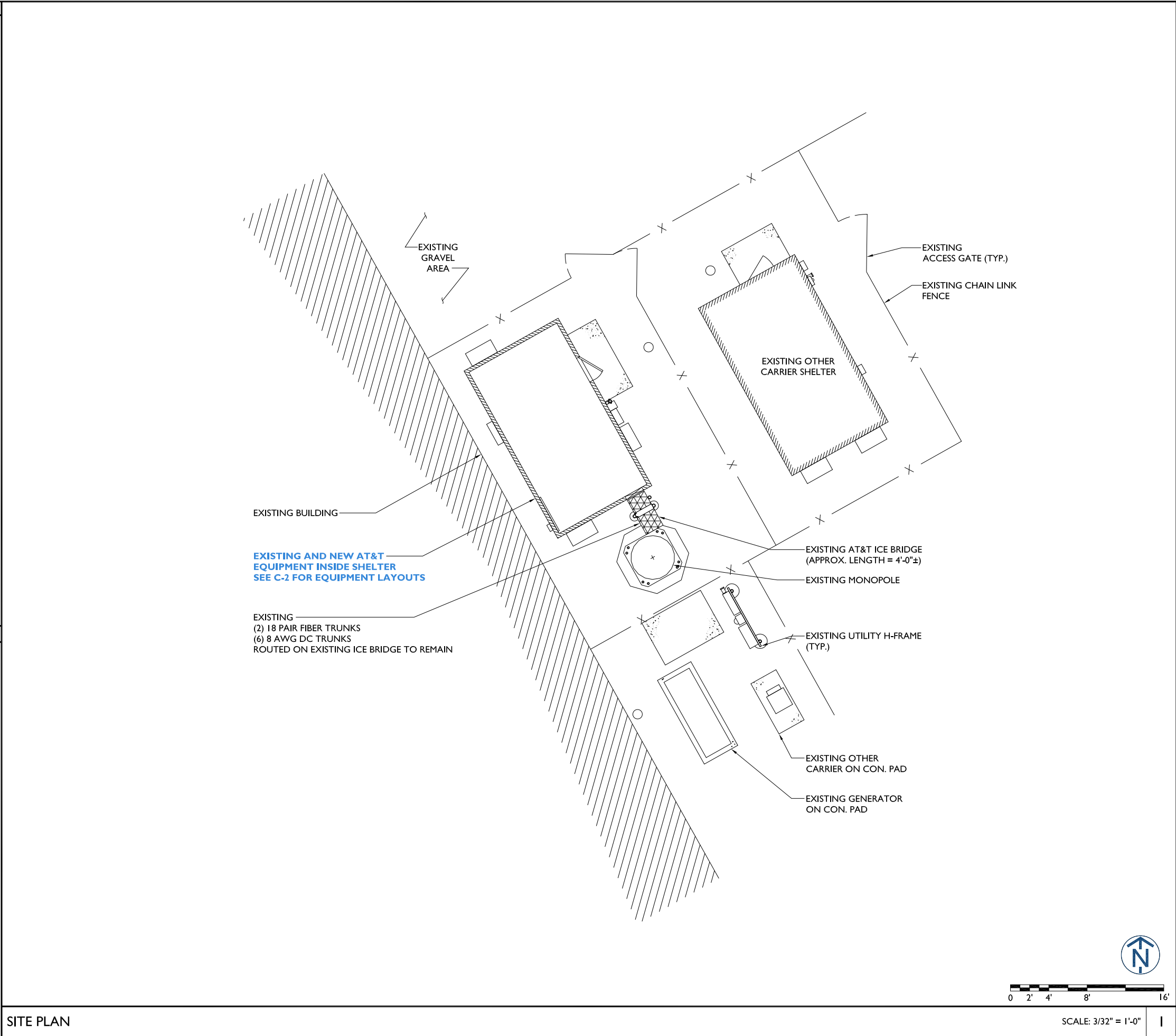
GENERAL NOTES

SHEET NUMBER

T-2

ABBREVIATIONS	
2C	2ND CARRIER
3C	3RD CARRIER
4C	4TH CARRIER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGL	ABOVE GROUND LEVEL
AMSL	ABOVE MEAN SEA LEVEL
APPROX	APPROXIMATE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BBU	BASE BAND UNIT
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CND	CONDUIT
CSRF	CROSS SECTOR REDUNDANCY FEATURE
DWVG	DRAWING
FT	FOOT(FEET)
EGB	EQUIPMENT GROUND BAR
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
ELEV	ELEVATION
EQUIP	EQUIPMENT
(E)	EXISTING
EXT	EXTERIOR
FND	FOUNDATION
F	FIBER
FIF	FACILITY INTERFACE FRAME
GA	GAUGE
GALV	GALVANIZED
GPS	GLOBAL POSITIONING SYSTEM
GND	GROUND
GSM	GLOBAL SYSTEM FOR MOBILE COMMUNICATION
LTE	LONG TERM EVOLUTION
MAX	MAXIMUM
MCPA	MULTI-CARRIER POWER AMPLIFIER
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MIN	MINIMUM
MTS	MANUAL TRANSFER SWITCH
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
PPC	POWER PROTECTION CABINET
PL	PROPERTY LINE
RBS	RADIO BASED STATION
RRH	REMOTE RADIO HEAD
RGS	RIGID GALVANIZED STEEL
IN	INCH(ES)
INT	INTERIOR
LB(S), #	POUND(S)
SF	SQUARE FOOT
STL	STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UMTS	UNIVERSAL MOBILE TELE-COMMUNICATION SYSTEM
VIF	VERIFY IN FIELD
W/	WITH
XFMR	TRANSFORMER

SYMBOLS	
	REVISION
	WORK POINT
	UTILITY POLE
	BRICK
	COMPRESSED STONE
	CONCRETE
	EARTH
	GRAVEL
	MASONRY
	STEEL
	CENTERLINE
	PROPERTY LINE
	LEASE LINE
	EASEMENT LINE
	FENCE
	CHAINLINK
	WOOD
	WROUGHT IRON
	ELECTRIC OVERHEAD
	UNDERGROUND
	FIBER OVERHEAD
	UNDERGROUND
	TELEPHONE OVERHEAD
	UNDERGROUND
	DC POWER
	SECTION REFERENCE



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SITE ADDRESS

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LEES SUMMIT, MO 64063

SHEET NAME

SITE PLAN

SHEET NUMBER

C-I



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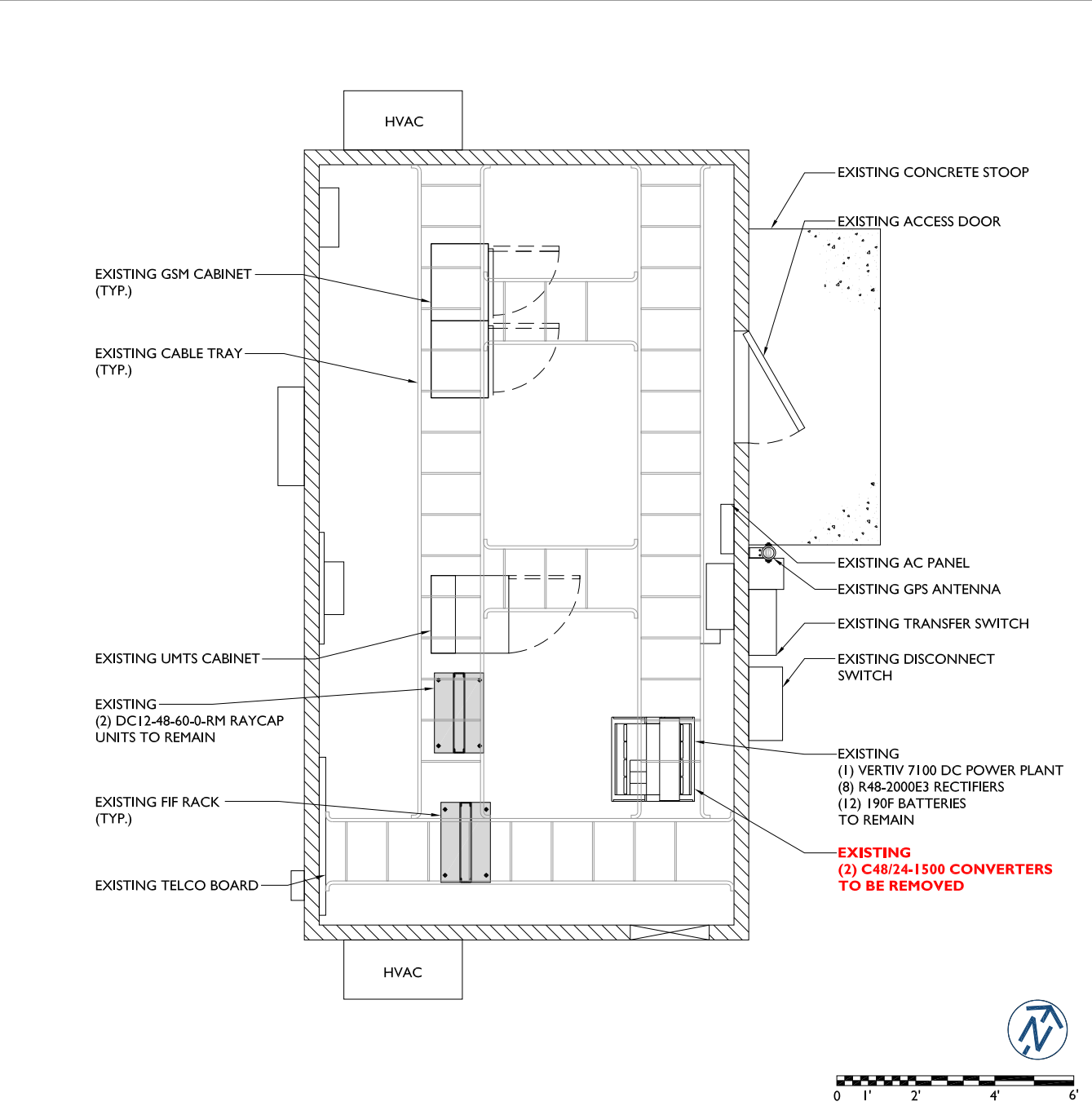
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SITE NO.
KSL04130
SITE ADDRESS
202 EAST THIRD STREET LEES SUMMIT, MO 64063
SHEET NAME
EQUIPMENT LAYOUTS AND SITE PHOTOS
SHEET NUMBER
C-2

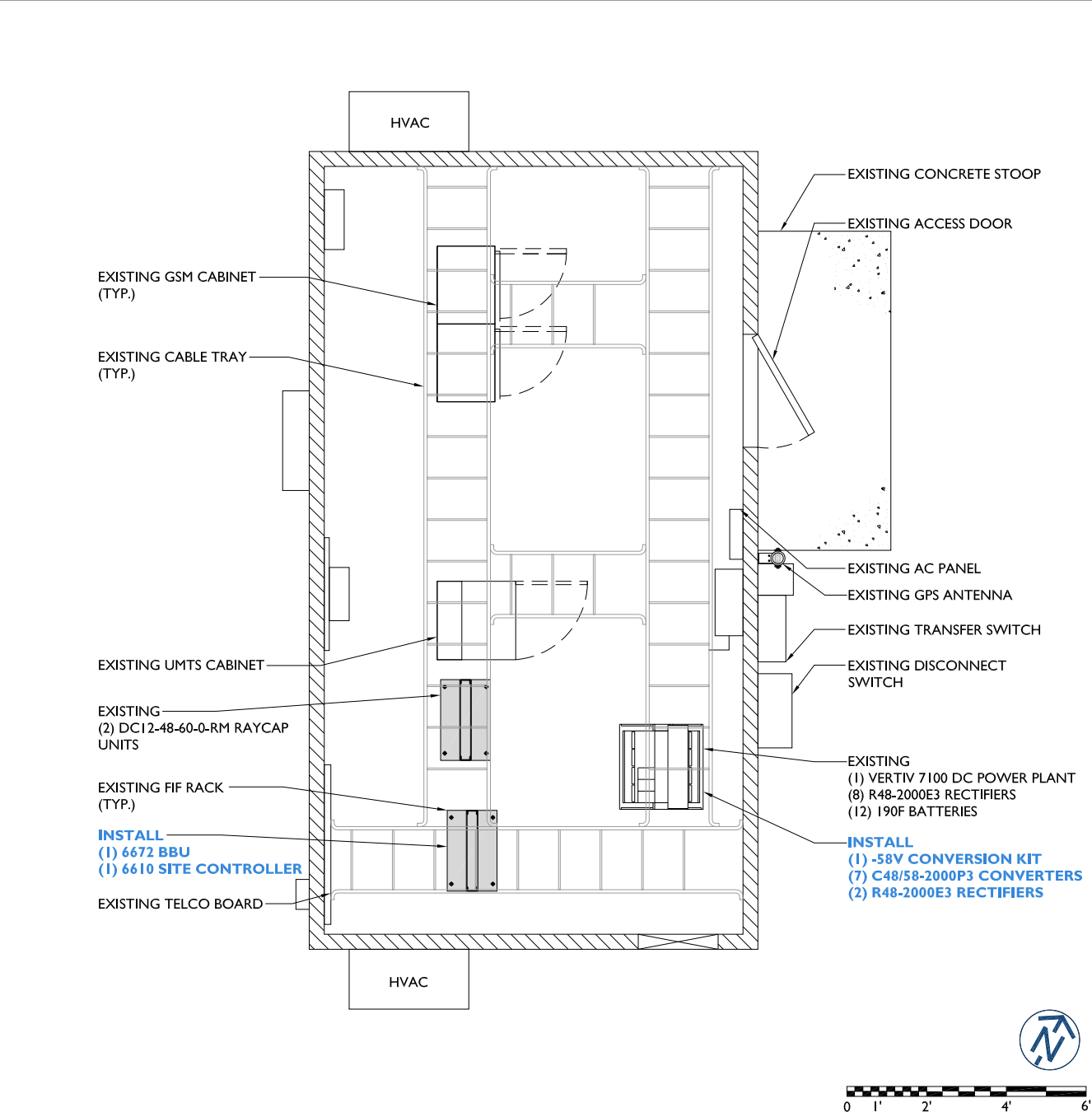
SITE PHOTOS - EXISTING EQUIPMENT

SCALE: N.T.S. 3



EXISTING EQUIPMENT LAYOUT

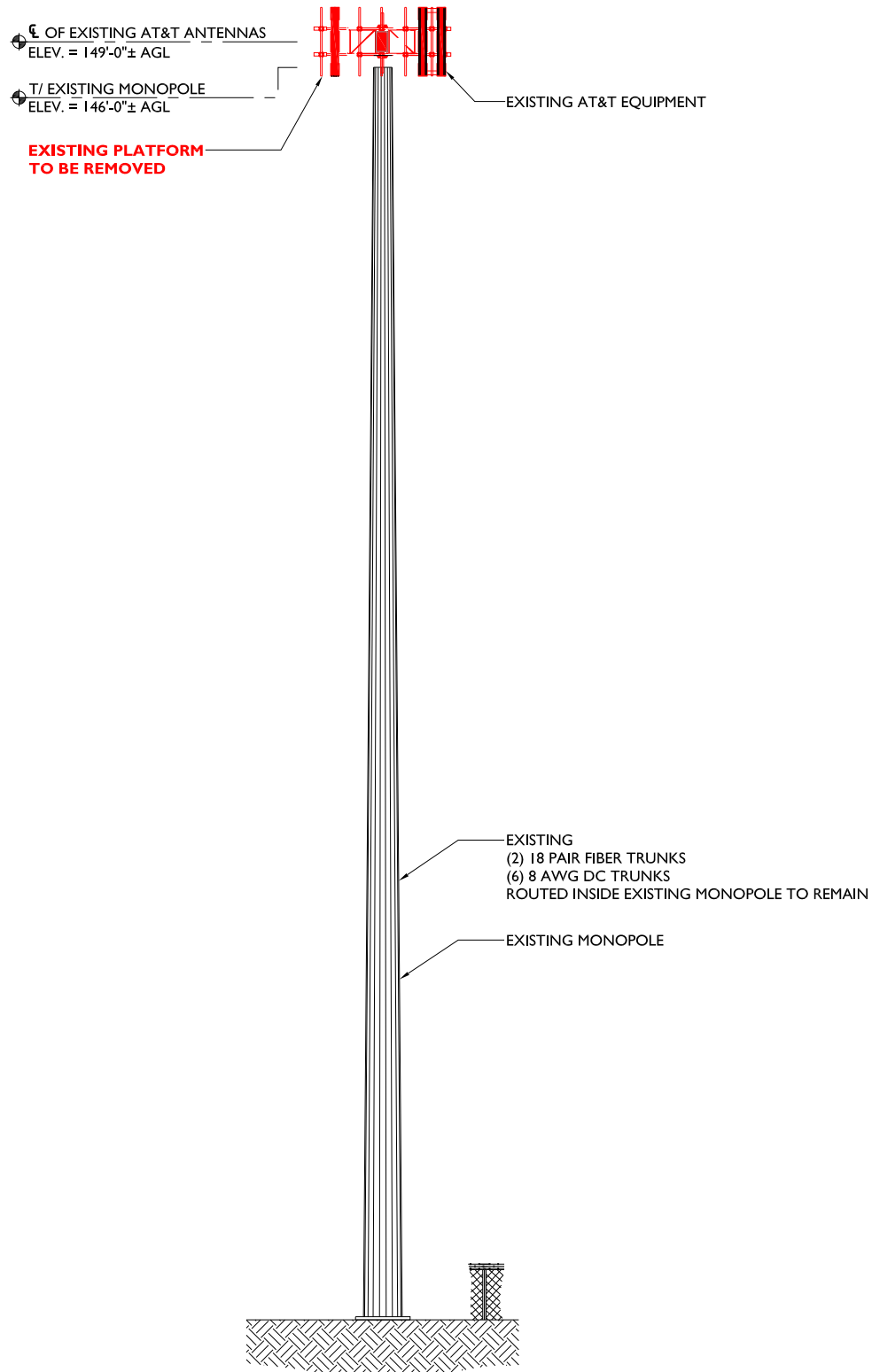
SCALE: 1/4" = 1'-0" 1



FINAL EQUIPMENT LAYOUT

SCALE: 1/4" = 1'-0" 2

NOTE:
EXISTING ANTENNAS NOT
CENTERED ON MOUNT

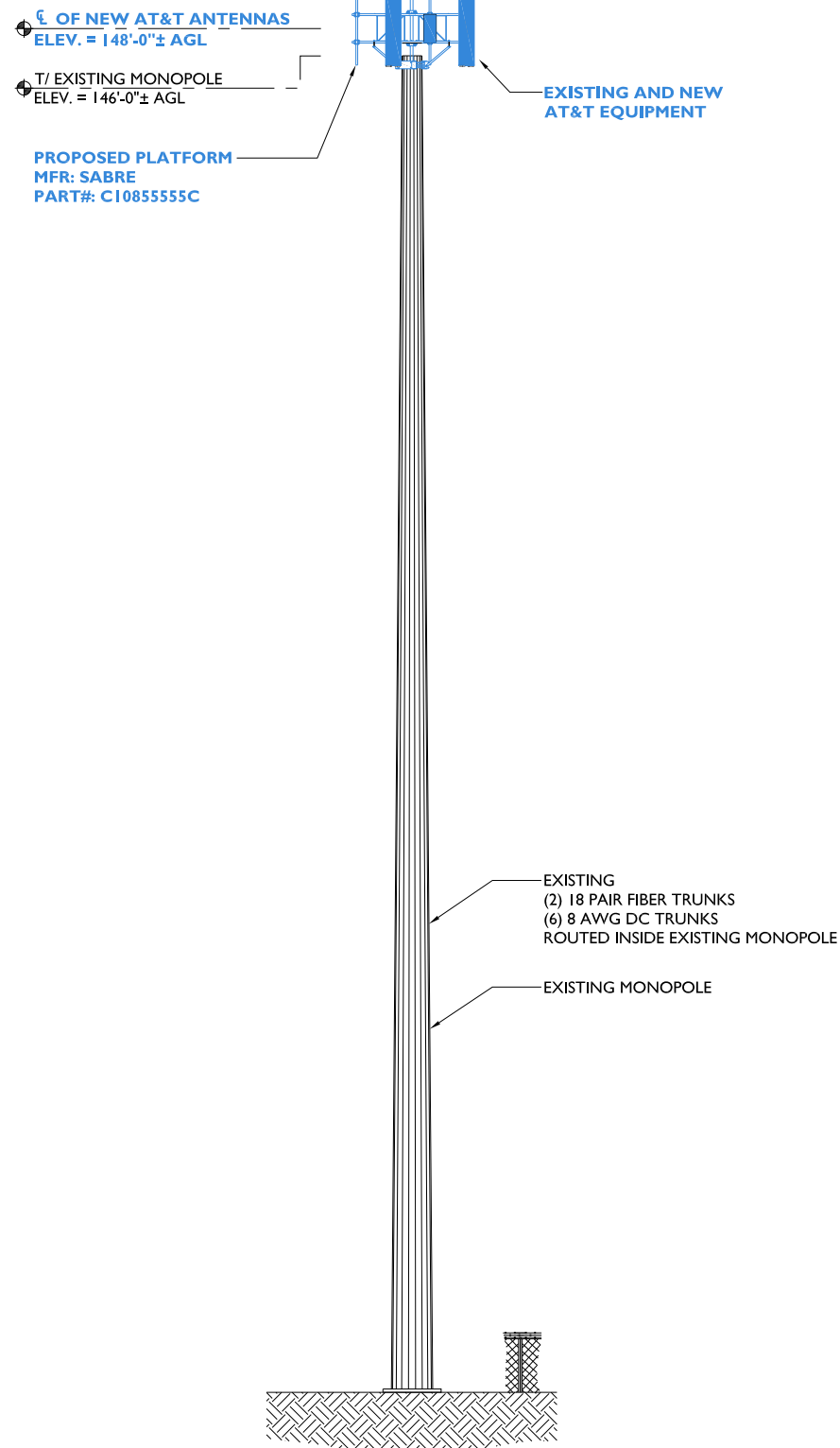


EXISTING ELEVATION

SCALE: N.T.S.

1

NOTE:
AT&T ANTENNAS TO BE
CENTERED ON MOUNT



FINAL ELEVATION

SCALE: N.T.S.

2

NOTES:

1. CALCULATIONS FOR THE STRUCTURE WERE PREPARED BY OTHERS AND THOSE CALCULATIONS CERTIFY THE CAPACITY OF THE STRUCTURE TO SUPPORT THE NEW EQUIPMENT
2. CALCULATIONS FOR THE ANTENNA MOUNTS WERE PREPARED BY FULLERTON ENGINEERING AND THOSE CALCULATIONS CERTIFY THE CAPACITY OF THE STRUCTURE TO SUPPORT THE NEW EQUIPMENT
3. CABLES NOT SHOWN FOR CLARITY



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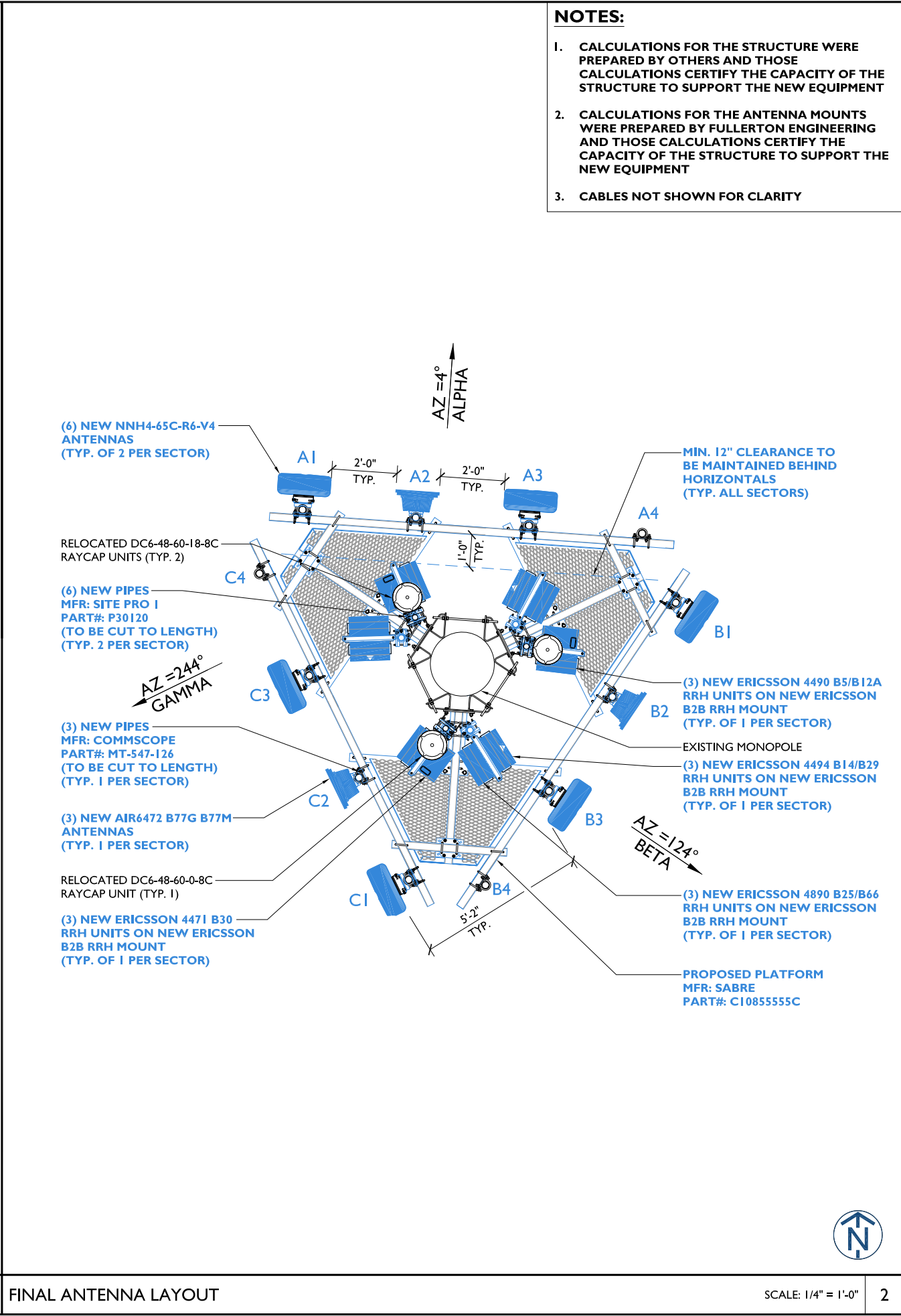
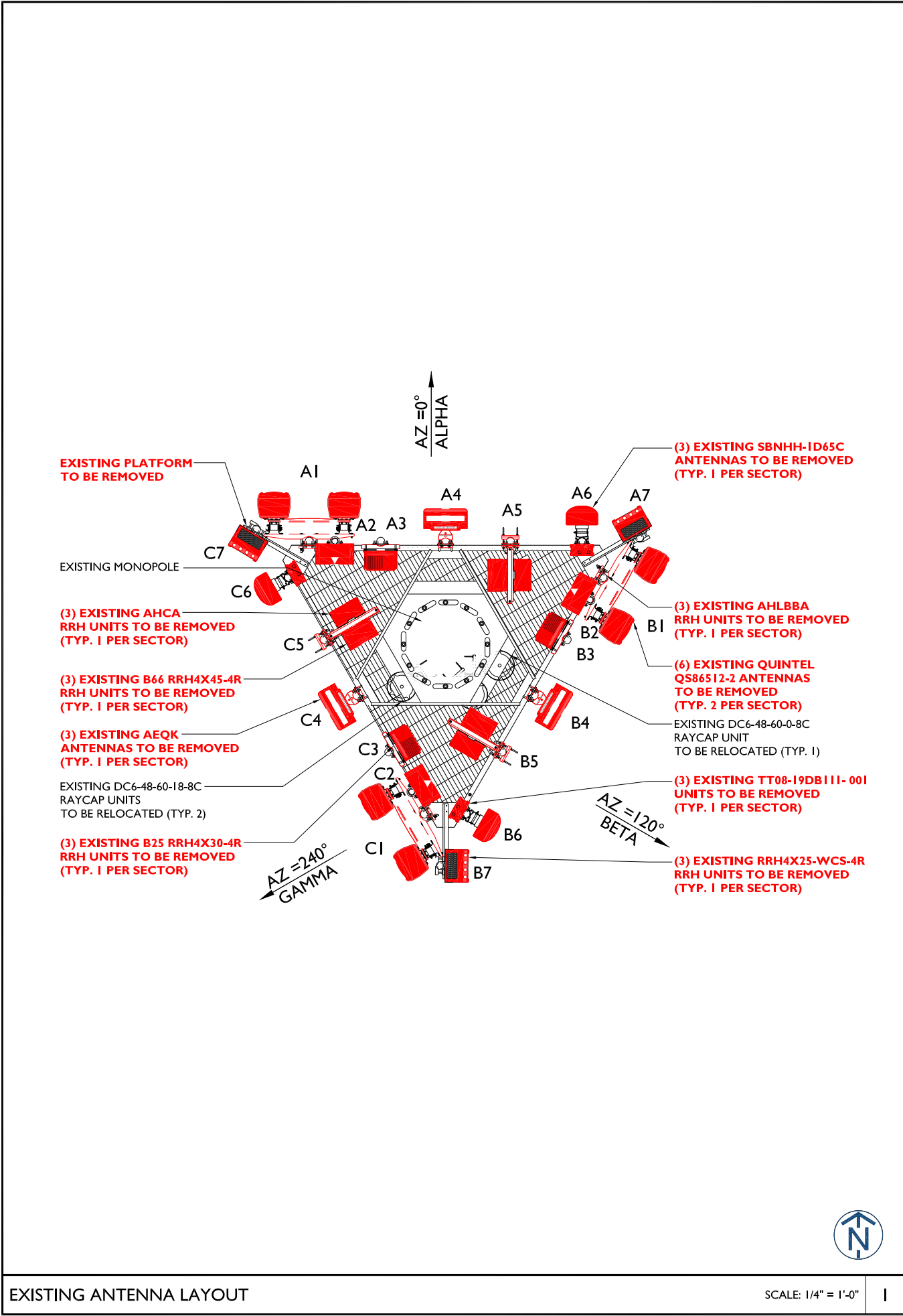
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SHEET NAME

ELEVATIONS

SHEET NUMBER

C-3



- NOTES:**
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 - CALCULATIONS FOR THE ANTENNA MOUNTS WERE PREPARED BY FULLERTON ENGINEERING AND THOSE CALCULATIONS CERTIFY THE CAPACITY OF THE STRUCTURE TO SUPPORT THE NEW EQUIPMENT
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KSL04130
SITE ADDRESS
202 EAST THIRD STREET LEES SUMMIT, MO 64063
SHEET NAME
ANTENNA LAYOUTS
SHEET NUMBER
C-4

EXISTING ANTENNA SCHEDULE									EXISTING FIBER DISTRIBUTION/SQUID																
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		MODEL NUMBER	STATUS	DC TRUNK	FIBER TRUNK	STATUS												
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	(2) DC6-48-60-18-8C (1) DC6-48-60-0-8C	REL REL	(6) 8 AWG	(2) 18 PAIR	RMN												
ALPHA	149'	0°	A1	(2) QUINTEL QS86512-2	-	RMV	-	-																	
			A2	-	-	-	AHLBBA	RMV																	
			A3	-	-	-	B25-RRH4X30-4R	RMV																	
			A4	(1) AEQK	-	RMV	-	-																	
			A5	-	-	-	RRH4X45-4R AHCA	RMV RMV																	
			A6	(1) SBNHH-1D65C	-	RMV	TT08-19DB111- 001	RMV																	
			A7	-	-	-	RRH4X25-WCS-4R	RMV																	
BETA	149'	120°	B1	(2) QUINTEL QS86512-2	-	RMV	-	-																	
			B2	-	-	-	AHLBBA	RMV																	
			B3	-	-	-	B25-RRH4X30-4R	RMV																	
			B4	(1) AEQK	-	RMV	-	-																	
			B5	-	-	-	RRH4X45-4R AHCA	RMV RMV																	
			B6	(1) SBNHH-1D65C	-	RMV	TT08-19DB111- 001	RMV																	
			B7	-	-	-	RRH4X25-WCS-4R	RMV																	
GAMMA	149'	240°	C1	(2) QUINTEL QS86512-2	-	RMV	-	-																	
			C2	-	-	-	AHLBBA	RMV																	
			C3	-	-	-	B25-RRH4X30-4R	RMV																	
			C4	(1) AEQK	-	RMV	-	-																	
			C5	-	-	-	RRH4X45-4R AHCA	RMV RMV																	
			C6	(1) SBNHH-1D65C	-	RMV	TT08-19DB111- 001	RMV																	
			C7	-	-	-	RRH4X25-WCS-4R	RMV																	
STATUS ABBREVIATIONS RMV: TO BE REMOVED RMN: TO REMAIN REL: TO BE RELOCATED ADD: TO BE ADDED																									
FINAL ANTENNA SCHEDULE									FINAL FIBER DISTRIBUTION/SQUID																
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		MODEL NUMBER	STATUS	DC TRUNK	FIBER TRUNK	STATUS												
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	(2) DC6-48-60-18-8C (1) DC6-48-60-0-8C	REL REL	(6) 8 AWG	(2) 18 PAIR	RMN												
ALPHA	148'	4°	A1	(1) NNH4-65C-R6-V4	-	ADD	ERICSSON 4490 B5/B12A ERICSSON 4471 B30	ADD ADD	RRH UNITS GAUGE AND VOLTAGE <table><tr><th>RRH MODEL</th><th>WIRE GAUGE / VOLTAGE</th></tr><tr><td>AIR6472 B77G B77M</td><td>8 AWG / -48V</td></tr><tr><td>ERICSSON 4490 B5/B12A</td><td>8 AWG / -48V</td></tr><tr><td>ERICSSON 4471 B30</td><td>8 AWG / -48V</td></tr><tr><td>ERICSSON 4890 B25/B66</td><td>8 AWG / -48V</td></tr><tr><td>ERICSSON 4494 B14/B29</td><td>8 AWG / -48V</td></tr></table>					RRH MODEL	WIRE GAUGE / VOLTAGE	AIR6472 B77G B77M	8 AWG / -48V	ERICSSON 4490 B5/B12A	8 AWG / -48V	ERICSSON 4471 B30	8 AWG / -48V	ERICSSON 4890 B25/B66	8 AWG / -48V	ERICSSON 4494 B14/B29	8 AWG / -48V
			RRH MODEL	WIRE GAUGE / VOLTAGE																					
			AIR6472 B77G B77M	8 AWG / -48V																					
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ERICSSON 4890 B25/B66	8 AWG / -48V																								
ERICSSON 4494 B14/B29	8 AWG / -48V																								
A2	AIR6472 B77G B77M	-	ADD	-	-																				
A3	(1) NNH4-65C-R6-V4	-	ADD	ERICSSON 4890 B25/B66 ERICSSON 4494 B14/B29	ADD ADD																				
A4	-	-	-	-	-																				
BETA	148'	124°	B1	(1) NNH4-65C-R6-V4	-	ADD	ERICSSON 4490 B5/B12A ERICSSON 4471 B30	ADD ADD																	
			B2	AIR6472 B77G B77M	-	ADD	-	-																	
			B3	(1) NNH4-65C-R6-V4	-	ADD	ERICSSON 4890 B25/B66 ERICSSON 4494 B14/B29	ADD ADD																	
			B4	-	-	-	-	-																	
GAMMA	148'	244°	C1	(1) NNH4-65C-R6-V4	-	ADD	ERICSSON 4490 B5/B12A ERICSSON 4471 B30	ADD ADD																	
			C2	AIR6472 B77G B77M	-	ADD	-	-																	
			C3	(1) NNH4-65C-R6-V4	-	ADD	ERICSSON 4890 B25/B66 ERICSSON 4494 B14/B29	ADD ADD																	
			C4	-	-	-	-	-																	



12930 OLIVE BLVD
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SITE NAME

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SITE NO.

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SITE ADDRESS

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LEES SUMMIT, MO 64063

SHEET NAME

ANTENNA SCHEDULES

SHEET NUMBER

C-5

Vertiv™ eSure™ Converter

C48/58-2000P3



Key Benefits

Converter, 48 to 58 VDC,
2000 W Peak / 1600 W Average

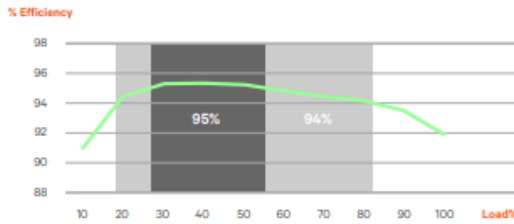
- Reduce power consumption and lower operating costs with 95% peak efficiency.
- Easily add capacity with hot pluggable interchangeable components.
- Ensure high availability with wide input voltage range from 41 VDC to 58 VDC.
- Power your 5G sites in the harsh environments with operation from -40°C to +65°C.
- Enjoy peace of mind with high quality UL recognized design.

Easily support higher power 5G remote radios on cell towers with modular 2000 watt eSure™ power extend converters.

Description

The Vertiv™ eSure™ C48/58-2000P3 high-efficiency converter is designed to operate from a nominal -48 VDC source to provide nominal -58 VDC load power, which is adjustable to application needs up to 2000 watts peak, 1600 watts average. This constant power converter designed with the latest patented switchmode technology, uses digital signal processing (DSP) for efficient operation.

The eSure C48/58-2000P3 DC to DC converter is ideal for feeding high power remote radio heads (RRHs). 58 VDC is regulated over a wide input range to minimize voltage drop in the cable feeding the RRH and sustain operation to end of battery discharge. When redundancy is critical or loads are high, multiple eSure C48/58-2000P3 converters can be connected in parallel to support a variety of telecom applications. Unified remote management and control of the power system is enabled when combined with a Vertiv™ NetSure™ controller.



C48/58-2000P3 Efficiency Curve at 53.5 VDC Nominal Input

Vertiv™ NetSure™ Converter System

-48V DC to -58V DC



Benefits

- Modular design**
Provides for system redundancy and easy expansion of operating capacity in small increments
- Expandable**
Optional converter shelves and distribution panel allow for system growth as site needs dictate
- Hot insertion capability**
Allows for system expansion without disruption
- Surge Protection**
Built-in surge protection protects equipment from damages
- Load Shedding**
Optional load disconnect contactor allows for shedding non-critical loads

Standard Features

- Safety compliance - NEBS, UL
- Nine (9) Form-C alarm outputs
- Current limiting
- Over-voltage protection
- Over-temperature protection
- Load sharing for parallel operation
- Easily accessible input and output connections for simplified installation
- Emergency Power Off

The Vertiv™ NetSure™ Converter System is ideal for powering remote radios over long cable lengths.



Description

The Vertiv™ NetSure™ Converter System provides up to 600 amps at -58 volts DC via high frequency switch mode converters, each rated at 2000 watts peak, 1600 watts average. The modular design allows the converter's capacity to expand as your system expands. The base system can accept eleven individual, plug-in converter modules that can be easily installed live without system interruption. Up to two six-expansion converter shelves can be added for increased capacity. The distribution panel is available with four large GJ/218 type circuit breaker positions or twenty-six bullet type device positions. The large positions accommodate up to a 250 amp breaker per position and up to an 800 amp breaker in four positions. The bullet type panel accommodates devices from 1 amp to 300 amps. A second 26-position bullet type panel can be added for expansion. The NetSure NCU controller provides system management, monitoring and alarming.

Application

The Vertiv™ NetSure™ Converter System is compact and easy to expand, making it ideal for radio base station sites requiring -58 VDC output.

Ordering Information

Part Number	Model Number	Description
58464100001	DC548/58-600	Converter System, (26) Bullet Positions, without Contactor
58464100002	DC548/58-600	Converter System, (26) Bullet Positions, with Contactor
58464100003	DC548/58-600	Converter System, (4) GJ/218 CB Positions, without Contactor
58464100004	DC548/58-600	Converter System, (4) GJ/218 CB Positions, with Contactor
58464100010	DC548/58-600	Expansion Converter Shelf, six positions
584641000AL	DC548/58-600	Expansion Distribution Panel, (26) Bullet Positions, without Contactor
584641000CL	DC548/58-600	Expansion Distribution Panel, (26) Bullet Positions, with Contactor
1M8308NA10044525	M8308	NCU Controller, 10044525 Configuration
1C48582000P3	C48/58-2000P3	eSure DC/DC converter, -48VDC to -58VDC, 2000 watts Peak

C48/58-2000P3 Converter Unit

Vertiv™ eSure™ Rectifier

R48-2000e3



Benefits

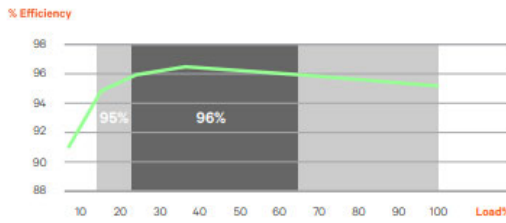
- Optimize the amount of energy delivered and reduce power consumption with over 96% efficiency.
- Increase space for revenue generating equipment with modules that pack more power in a small space with high power density.
- Facilitate easy maintenance, expansion and system changes with hot swappable capabilities.
- Enjoy increased reliability and active load sharing with Digital Signal Processing (DSP) which translates into fewer components and optimized operation.
- Appreciate the flexibility to utilize in a variety of applications with a wide input voltage range of 85 VAC to 300 VAC and full power output at temperatures from -40°C to +65°C.

In addition to reducing power consumption and lowering operating cost, eSure™ high-efficiency rectifiers offer superior performance and uncompromised reliability.

Description

The 2000 watt high-efficiency eSure rectifier (model R48-2000e3) converts standard AC supply voltages into stable nominal -48 VDC voltage that is adjustable to application needs. This constant power rectifier designed with the latest patented switch-mode technology, uses DSP (Digital Signal Processing) for efficient operation.

The R48-2000e3 can be connected in parallel with other rectifiers and converters to support a variety of telecom applications. Unified remote management and control of the power system is enabled when combined with a Vertiv™ controller.



R48-2000e3 Efficiency Curve at 250 VAC Nominal



12930 OLIVE BLVD
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SITE NO.

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SITE ADDRESS

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SHEET NAME

EQUIPMENT
DETAILS

SHEET NUMBER

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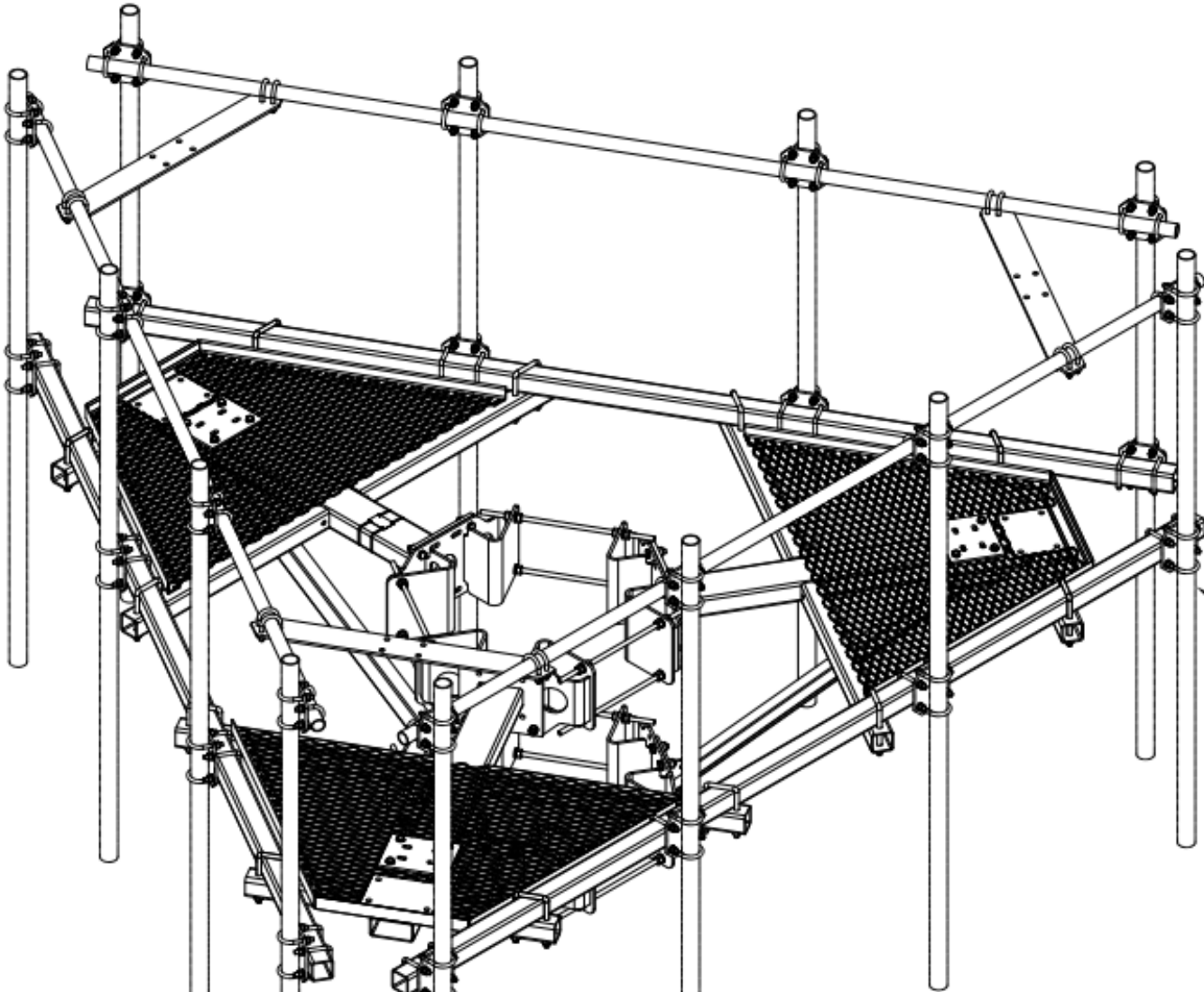
SHEET NUMBER

C-8



C10855555C 12' HD PLATFORM W/COLLARS & SUPPORT RAIL

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	2	C10112377	TRI-COLLAR BRACKET ASSEMBLY (10"-40" MONOPOLE)	416
2.	3	CW01320	WELDMENT, PLATFORM CORNER	612
3.	3	CS03348	SQUARE TUBE, 3 X 3 X 3/16 X 12'-6	268
4.	3	CS03354	PLATE, UPPER CONNECTION	22
5.	3	CW01322	WELDMENT, KICKER SUPPORT	31
6.	3	CW01291	WELDMENT, KICKER SUPPORT	32
7.	6	CS03372	ANGLE, KICKER	82
8.	3	CS03349	PLATE, CONNECTION 3/8 X 4 3/8 X 3'-6 1/16	56
9.	3	CS02229	PIPE, 1.9 O.D. X .145 X 12'-6	106
10.	18	C40026024	BOLT ASSEMBLY, 5/8 Ø X 2 1/4 A325	9
11.	12	C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	6
12.	12	C40024106	BOLT ASSEMBLY, 1/2 Ø X 6 1/2 GR5 FULL THD	5
13.	12	C40031003	FLATWASHER, 5/8 Ø HARDENED ASTM F436	1
14.	24	C40031002	FLATWASHER, 1/2 Ø HARDENED ASTM F436	1
15.	12	C40035017	SQ. U-BOLT ASSEMBLY, 5/8 Ø X 4 1/4 C-C	25
16.	12	C40034060	U-BOLT ASSEMBLY, 1/2 Ø X 2 9/16 C-C	9
17.	1	Z30992015	MOUNT CLASSIFICATION TAG C10855555C	1
18.	2	C40062104	STAINLESS STEEL SELF-LOCKING CABLE TIE	1
TOTAL WEIGHT				1683



MOUNTING PIPES & CROSSOVER PLATE KITS
MUST BE PURCHASED SEPARATELY

ISOMETRIC VIEW
SEE PAGES 2 & 3 FOR ADDITIONAL DETAILS

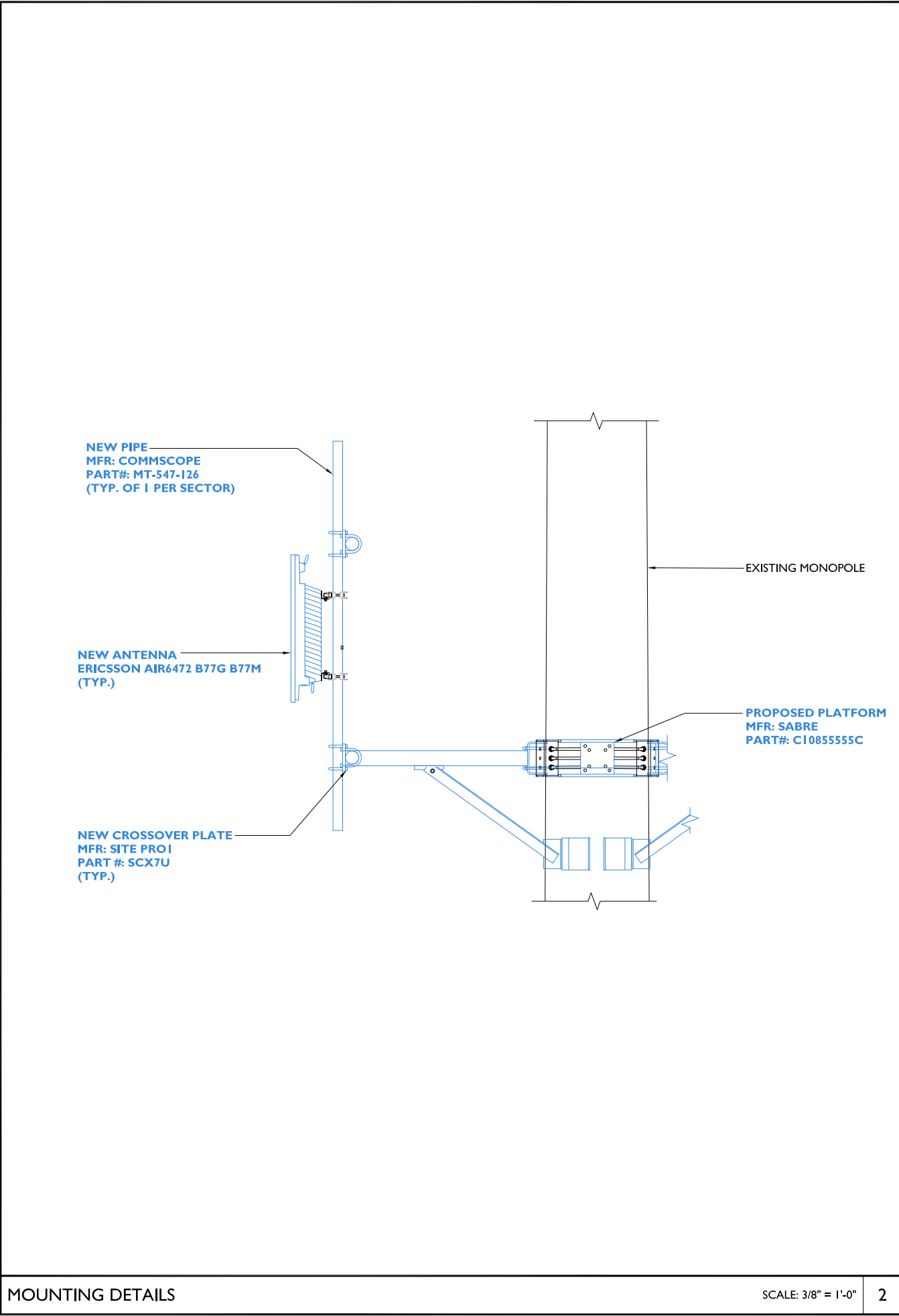
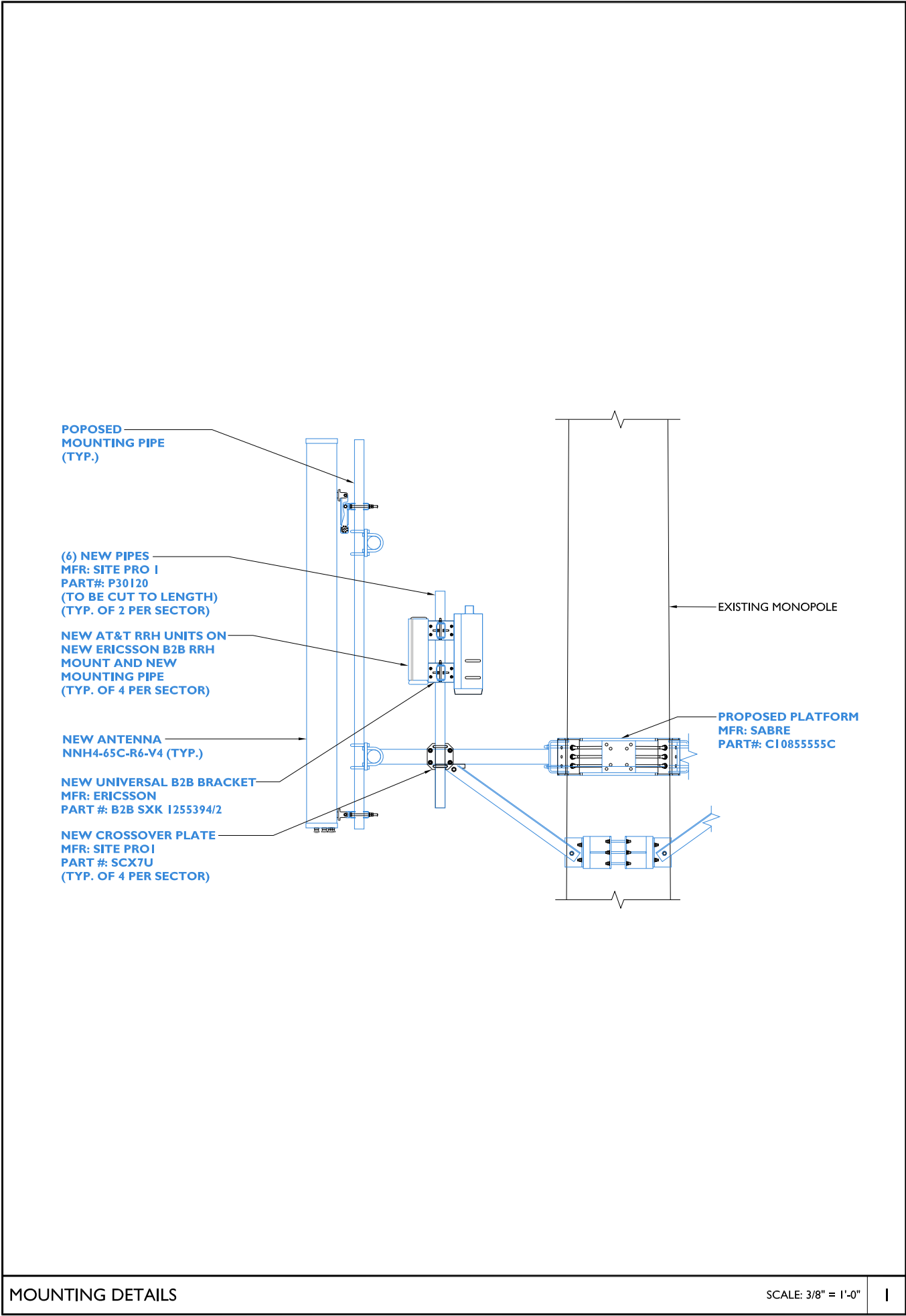
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
1	04/18/16	WRF	KLE DESIGN UPDATE
REV	DATE	DRW	CHK
			DESCRIPTION



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12' HD PLATFORM WITH COLLARS
& SUPPORT RAIL
FITS 10"Ø TO 40"Ø MONOPOLES

DATE	02/16/16	SIZE	B	DRAWING NO.	C10855555C	REV	1
DRAWN BY	WRF	SCALE	None	PAGE	1 OF 3		
CHECKED BY	KLE						



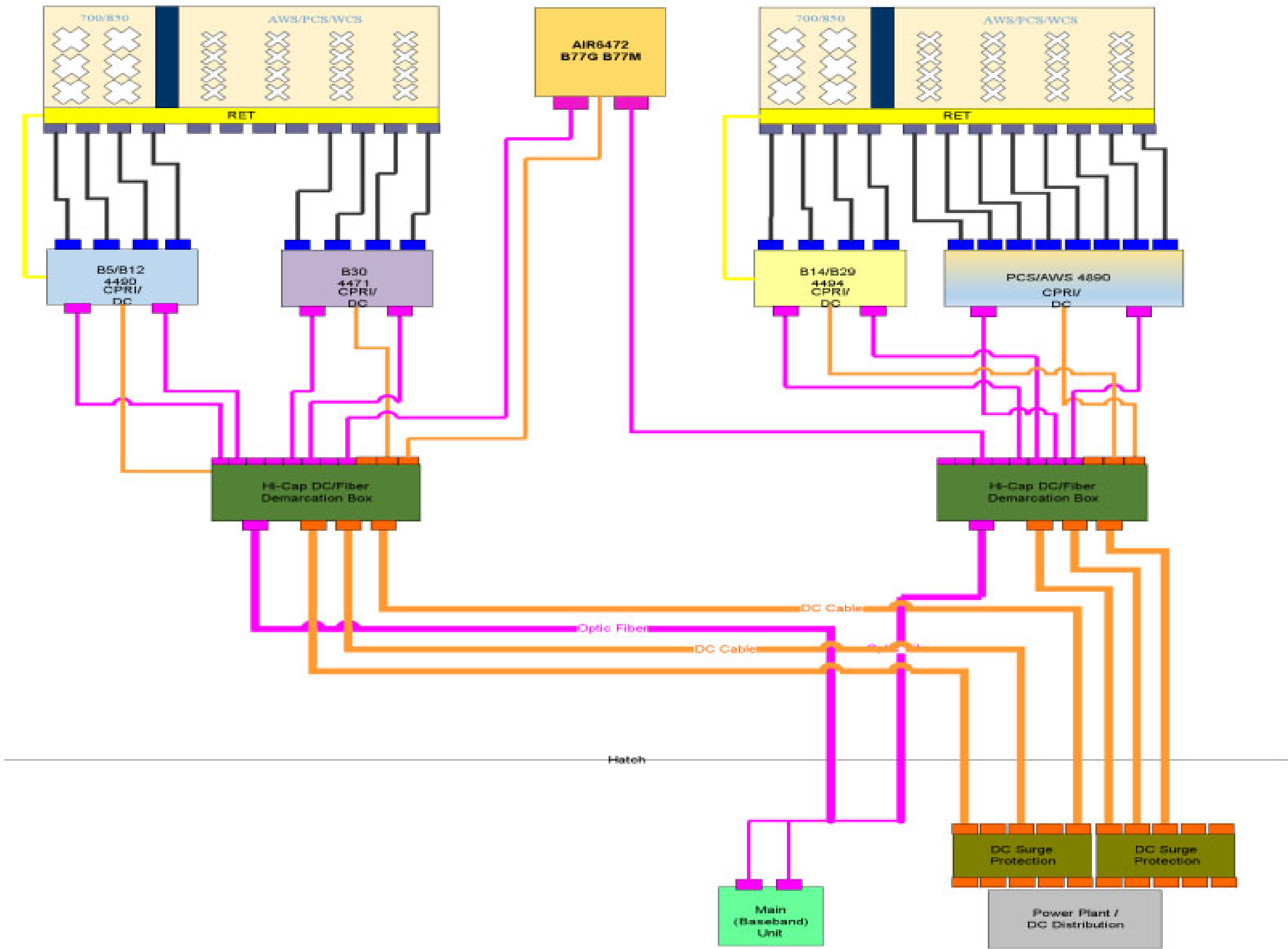
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SITE NO.
KSL04130
SITE ADDRESS
202 EAST THIRD STREET LEES SUMMIT, MO 64063
SHEET NAME
MOUNTING DETAILS
SHEET NUMBER
C-9



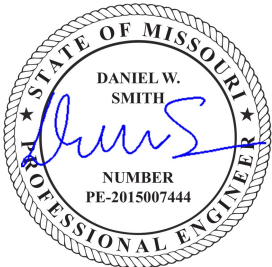
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SHEET NAME

PLUMBING
DIAGRAM

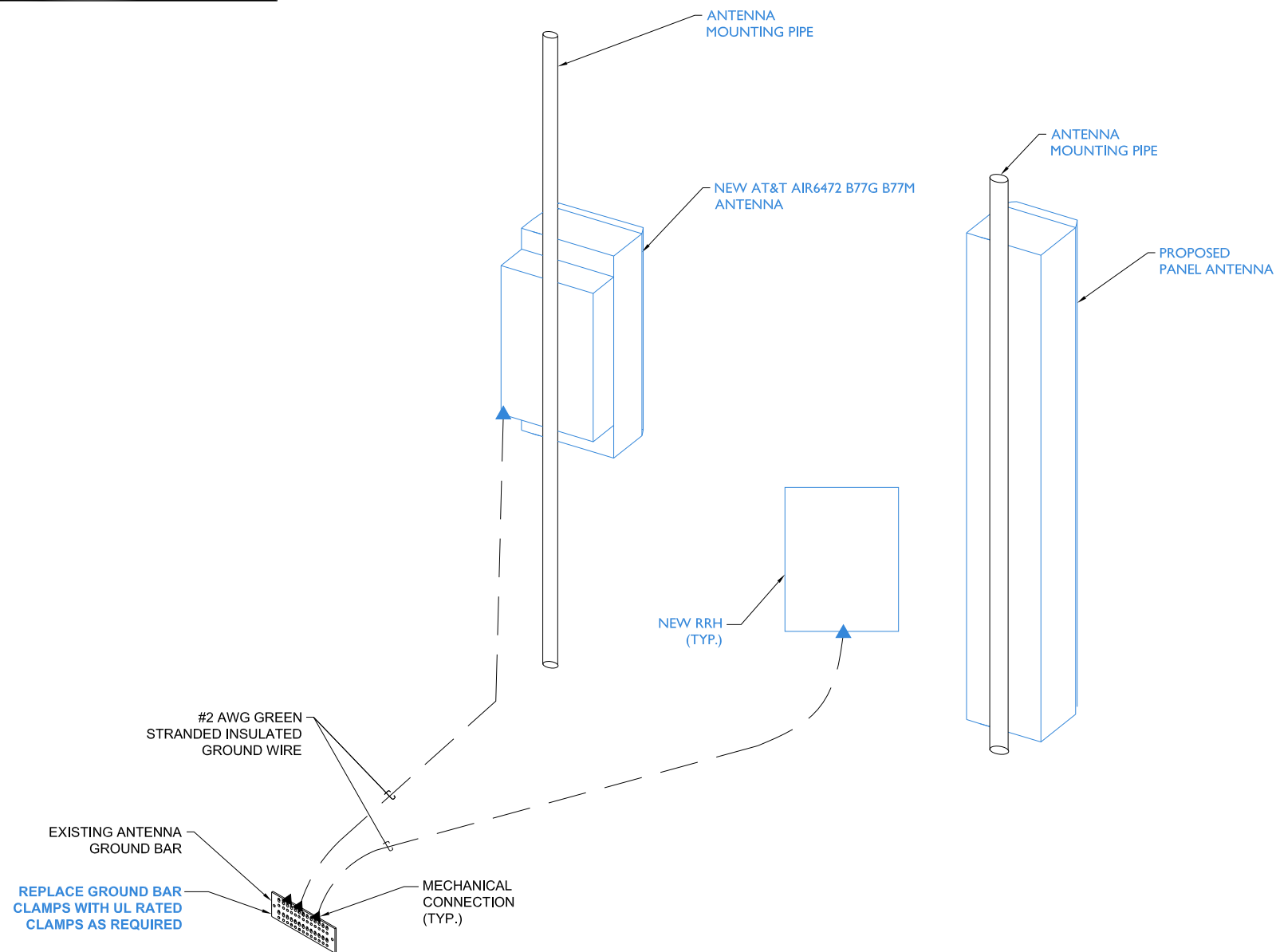
SHEET NUMBER

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SYMBOL LEGEND:

- EXOTHERMIC CONNECTION
- ▲ MECHANICAL CONNECTION

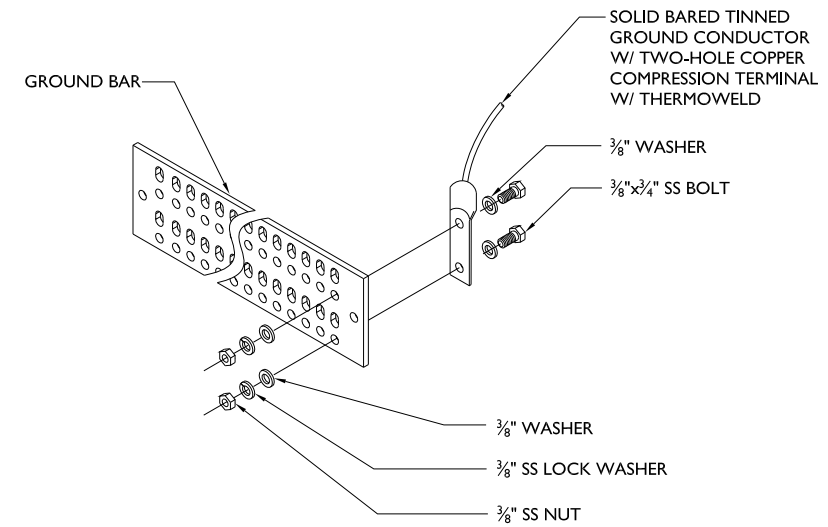
- ## SYMBOL LEGEND:
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 - ▲ MECHANICAL CONNECTION



NOTES:

1. CONTRACTOR SHALL REFER TO AT&T GROUNDING AND BONDING PRACTICE TP-76416. ALL EXOTHERMIC CADWELDS SHALL BE PERFORMED BY CERTIFIED TECHNICIAN.
2. PROVIDE WEATHER PROOFING AND GROUNDING KIT TO BOND DC POWER CABLE SHIELD TO MASTER GROUND BAR AT EQUIPMENT.
3. CONTRACTOR SHALL USE THEFT RESISTANT GROUND WIRES AND BARS WHEN FEASIBLE.
4. CONTRACTOR SHALL MAINTAIN A 12" MINIMUM GROUND WIRE BEND RADIUS.
5. GROUND LUGS, HEATSHRINK AND CLAMPS DEVICES SHALL COMPLY WITH AT&T GROUNDING AND BONDING PRACTICE TP-76416.

- NOTES:**
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NOTES:

1. UTILIZE EXISTING AT&T GROUND BARS AND GROUNDING.
2. ADD GROUND BARS IF THERE ARE INSUFFICIENT LUG POSITIONS.
3. REFERENCE AT&T BONDING & GROUNDING PRACTICE TP76416.

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TYPICAL GROUND BAR CONNECTION DETAIL

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SITE ADDRESS

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LEES SUMMIT, MO 64063

SHEET NAME

GROUNDING DETAILS

SHEET NUMBER

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