



AT&T FA NUMBER  
**15743282**

AT&T SITE NAME  
**CLAY HOLE CREEK**

CROWN CASTLE SITE NUMBER  
**870209**

CROWN CASTLE SITE NAME  
**LAKE CITY (HWY 47/WESTER RD)**

TOWER TYPE  
**EXISTING 445' GUYED TOWER**  
SITE ADDRESS  
**4604 SOUTHWEST STATE ROAD 47  
LAKE CITY, FL 32055**

THESE CD'S WERE COMPILED IN PART BY UTILIZING 15743282 RFDS UPDATED ON 05/04/2025. ALL AT&T TOWER EQUIPMENT INFORMATION TO BE CONFIRMED WITH LATEST AT&T RF DESIGN PRIOR TO INSTALLATION.

REFER TO THE PROVIDED STRUCTURAL DESIGN REPORT DRAWN BY STANTEC, DATED 03/13/25.

SUBJECT PROPERTY IS LOCATED IN PANEL #12023C038D, DATED 11/02/2018 AND IS IN THE BASE FLOOD ZONE "X" AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.



IWM JOB # 1: 2620A12E2E PACE JOB # 1: WSTFL0029015  
IWM JOB # 2: 2620A16S9H PACE JOB # 2: WSTFL0015505  
IWM JOB # 3: 2620A18BVZ PACE JOB # 3: WSTFL0010296  
IWM JOB # 4: 2620A16BWT PACE JOB # 4: WSTFL0016653  
IWM JOB # 5: 2620A16BX4 PACE JOB # 5: WSTFL0029500  
IWM JOB # 6: 2620A16BXT PACE JOB # 6: WSTFL0028924  
IWM JOB # 7: 2620A16BXV PACE JOB # 7: WSTFL0029422

SNW JOB #24-5408

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LAKE CITY, FL 32055

ISSUED FOR:			
REV	DESCRIPTION	BY	DATE
A	CLIENT REVIEW	DAJ	04/08/25
B	PERMITTING	ZDS	05/27/25



THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED & SEALED BY JEREMY D SHARIT, PE (#751337) USING A DIGITAL SIGNATURE IN ACCORDANCE IN ACCORDANCE WITH FAC 61G15-23.004, WITH A DIGITAL CERTIFICATION ISSUED BY ENTRUST INC. PLEASE REFERENCE SHEET T1 TO VIEW THE SIGNATURE AND VERIFY ITS PROPERTIES. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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TITLE SHEET & PROJECT INFORMATION

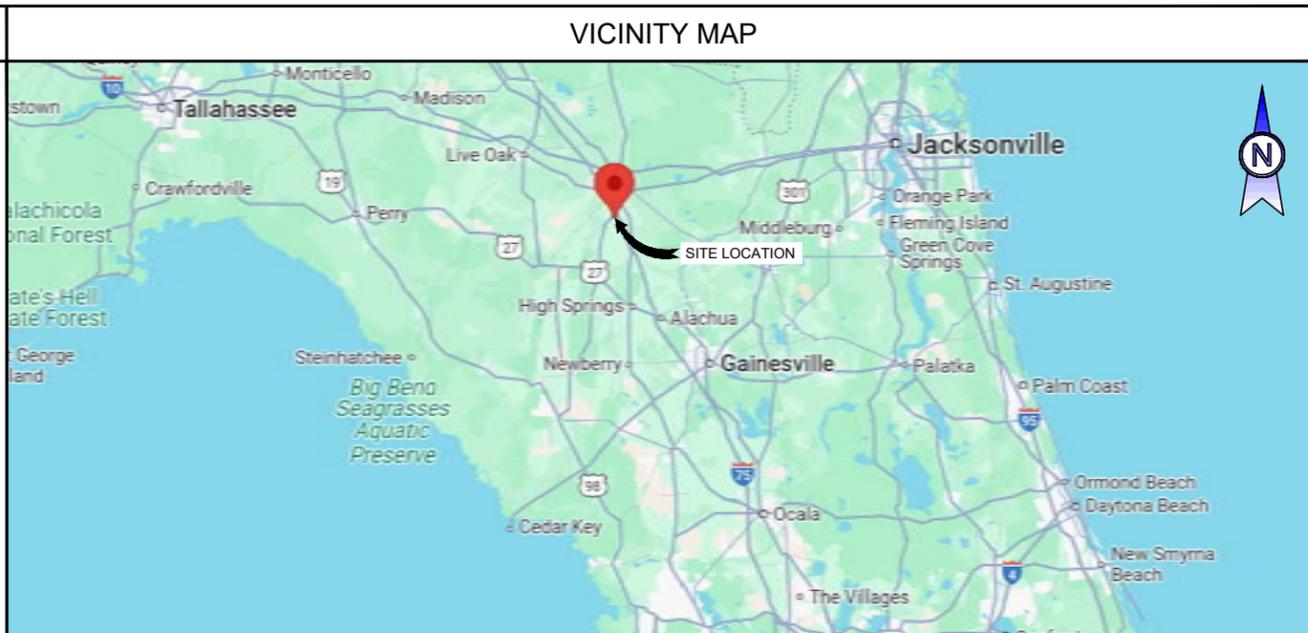
SHEET NUMBER:  
**T-1**

**COMPLIANCE CODE**

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- 2023 FLORIDA BUILDING CODE, 8TH EDITION
- ANSI/TIA-222-H
- 8TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA 70)
- 2020 NATIONAL ELECTRICAL CODE
- BASIC WIND SPEED: 119 MPH (3-SECOND GUST)
- CITY/COUNTY ORDINANCES

SEE STRUCTURAL ANALYSIS FOR WIND SPEEDS PER SITE



**SHEET INDEX**

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E-1	ELECTRICAL NOTES
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G-2	GROUNDING DETAILS & NOTES
--	SUPPLEMENTAL

**PROJECT SUMMARY**

SITE ADDRESS:  
4604 SOUTHWEST STATE ROAD 47  
LAKE CITY, FL 32055  
COUNTY: COLUMBIA  
PARCEL OWNER: PINNACLE TOWERS  
PARCEL ID: 254S603154005

GEOGRAPHIC COORDINATES:  
LATITUDE: 30° 06' 27.30" N / 30.1075866°  
LONGITUDE: 82° 39' 46.00" W / -82.6627778°  
GROUND ELEVATION: 113'

ZONING INFORMATION:  
JURISDICTION: LAKE CITY  
ZONING CLASS: N/A

**UTILITY COMPANIES**

POWER COMPANY: CLAY ELECTRIC  
PHONE: 352-372-8543

TELEPHONE COMPANY: AT&T WIRELINE  
PHONE: 800-638-2822

**PROJECT DESCRIPTION**

THE PROPOSED PROJECT CONSISTS OF:

- NEW AT&T 12'X25' LEASE AREA
- NEW AT&T WUC & GENERATOR ON A RAIL PLATFORM ON CONCRETE PAD
- NEW AT&T ANTENNAS & ASSOCIATED EQUIPMENT ON EXISTING 445' GUYED TOWER

**PROJECT LOCATION DIRECTIONS**

DIRECTIONS FROM 12150 RESEARCH PARKWAY ORLANDO, FL: TAKE FL-408 W. GO 21.7 MILES AND USE THE RIGHT LANES TO TAKE THE FLORIDA TURNPIKE EXIST TOWARDS OCALA. GO 42.6 MILES AND MERGE ONTO I-75 N. GO 95.4 MILES AND TAKE EXIT 423 FOR FL-47 N TOWARDS FT WHITE. GO 0.2 MILES AND TURN LEFT ONTO FL-47 S. SITE WILL BE ON THE RIGHT.

**PROJECT NOTES**

- THE FACILITY IS UNMANNED.
- A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
- THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
- NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
- HANDICAP ACCESS IS NOT REQUIRED.
- THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).

**PROJECT TEAM**

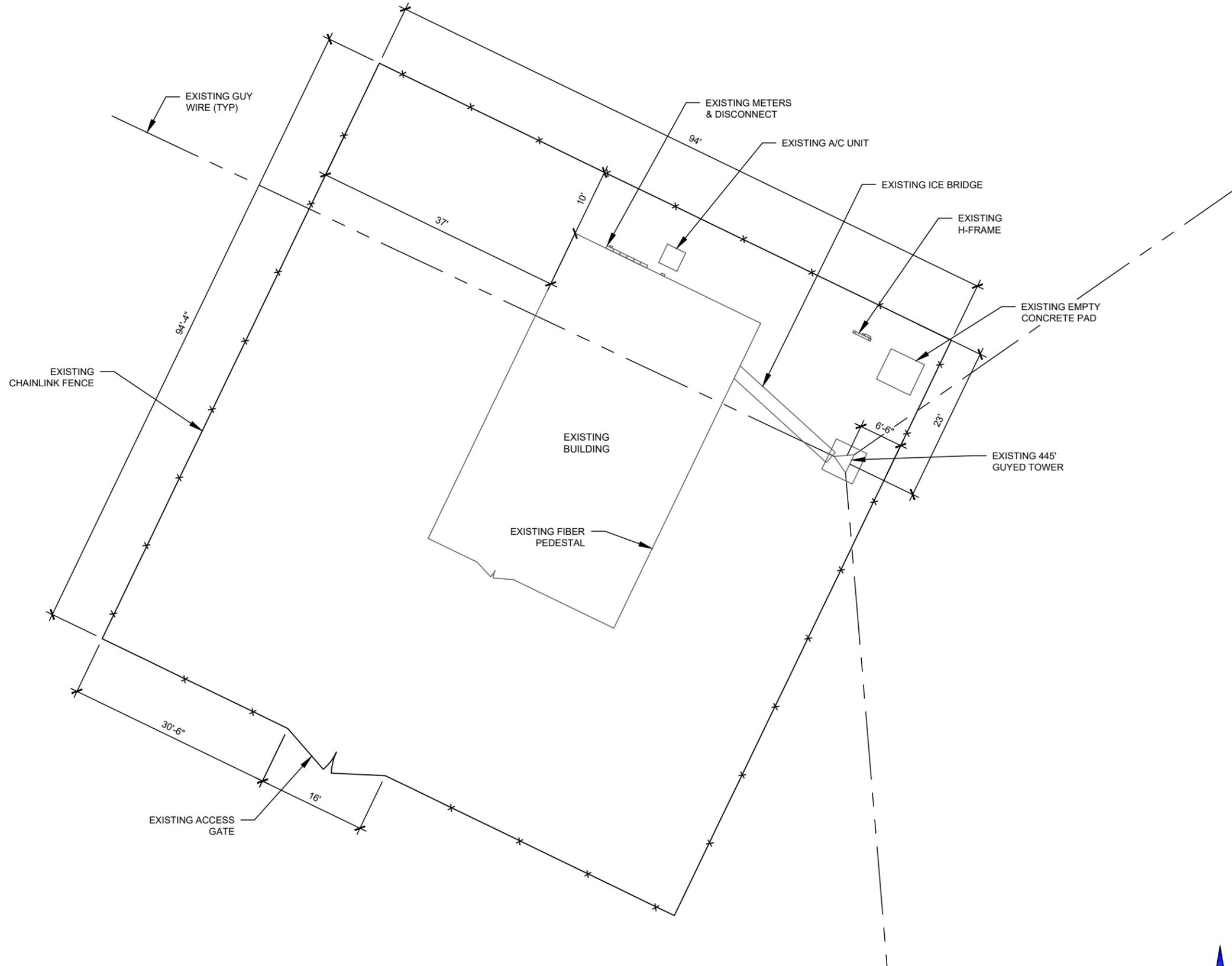
ENGINEER:  
SMW ENGINEERING  
158 BUSINESS CENTER DRIVE  
BIRMINGHAM, AL 35244  
CONTACT: JEREMY SHARIT, PE  
PHONE: 205-397-6781

APPLICANT:  
NEW CINGULAR WIRELESS PCS LLC  
12150 RESEARCH PARKWAY  
ORLANDO, FL 32826

TOWER OWNER:  
CROWN CASTLE  
2000 CORPORATE DRIVE  
CANONSBURG, PA 15317  
CONTACT: CUSTOMER SERVICE  
PHONE: 800-788-7011



SUBJECT PROPERTY IS LOCATED IN PANEL #12023C038D, DATED 11/02/2018 AND IS IN THE BASE FLOOD ZONE "X" AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.



SMW JOB #24-5408

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CA# 33693

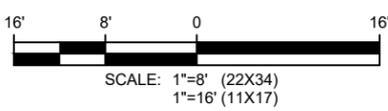
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OVERALL SITE PLAN

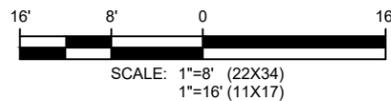
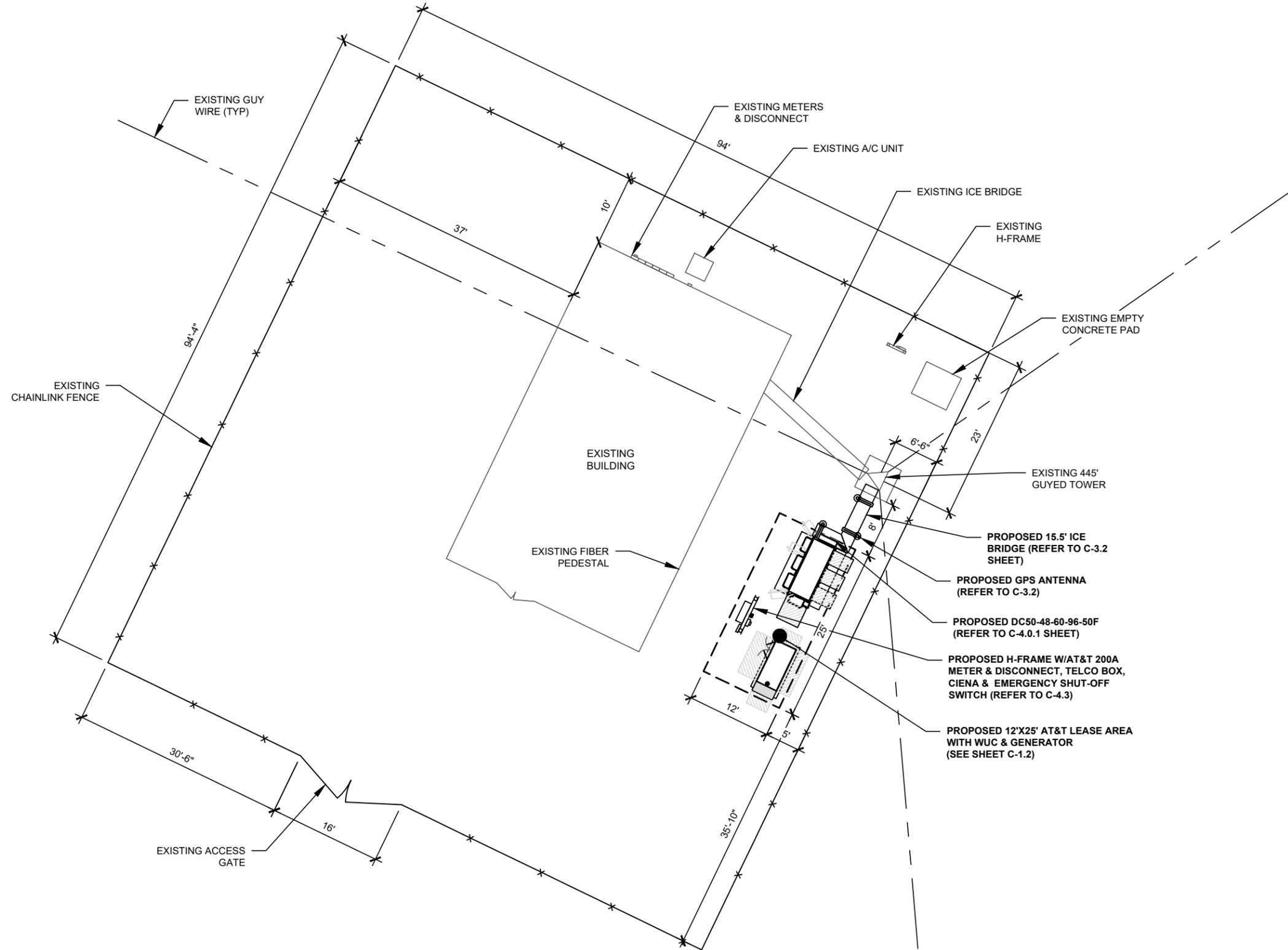
SHEET NUMBER:

C-1



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ENLARGED SITE PLAN

SHEET NUMBER:  
**C-1.1**





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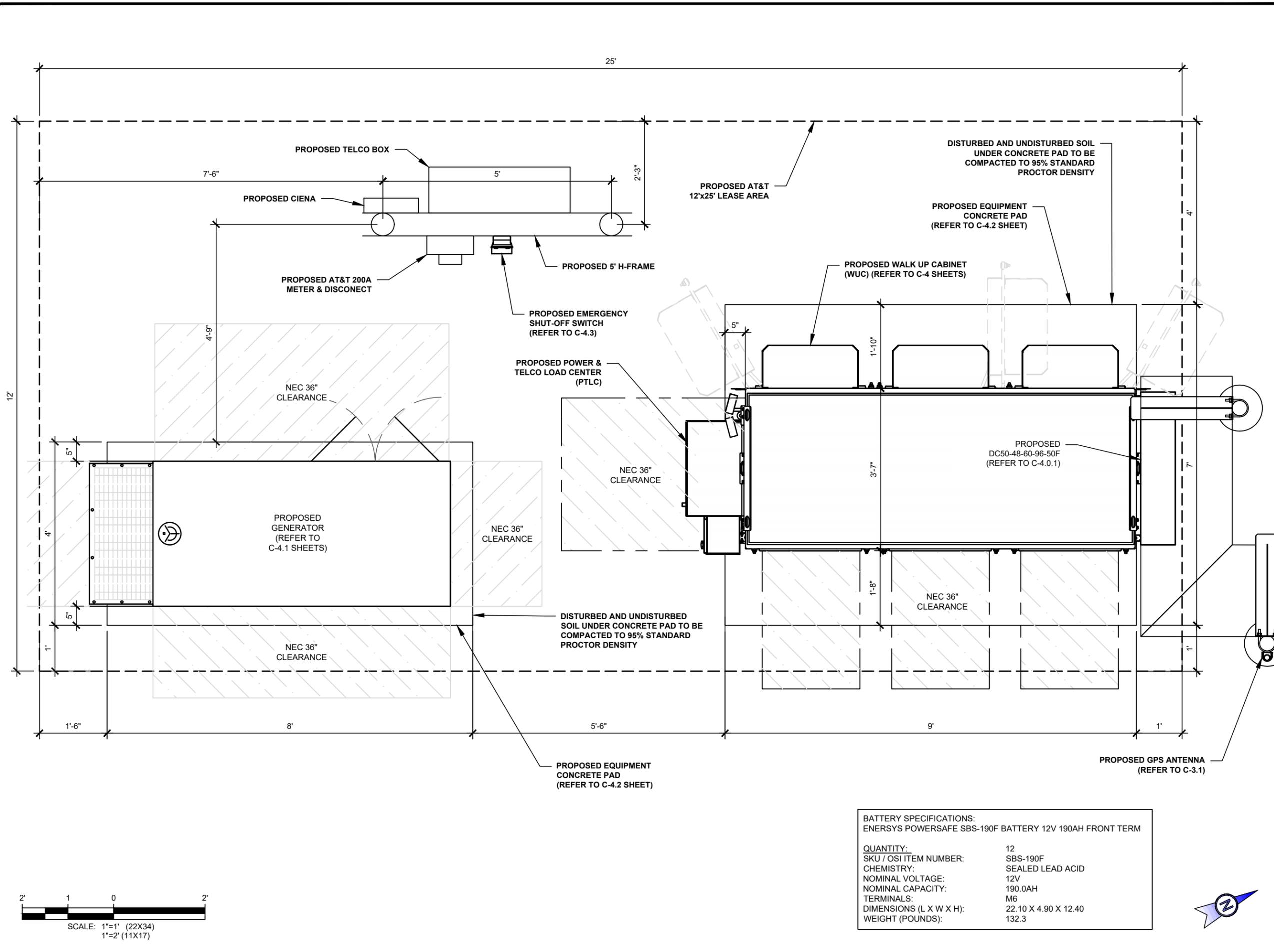
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EQUIPMENT PLAN

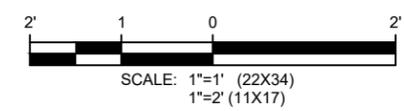
SHEET NUMBER:

C-1.2



BATTERY SPECIFICATIONS:  
ENERSYS POWERSAFE SBS-190F BATTERY 12V 190AH FRONT TERM

QUANTITY: 12  
SKU / OSI ITEM NUMBER: SBS-190F  
CHEMISTRY: SEALED LEAD ACID  
NOMINAL VOLTAGE: 12V  
NOMINAL CAPACITY: 190.0AH  
TERMINALS: M6  
DIMENSIONS (L X W X H): 22.10 X 4.90 X 12.40  
WEIGHT (POUNDS): 132.3





TOGETHER PLANNING A BETTER TOMORROW  
158 BUSINESS CENTER DRIVE  
BIRMINGHAM, AL 35244  
TEL: 205-252-6985 www.smweng.com

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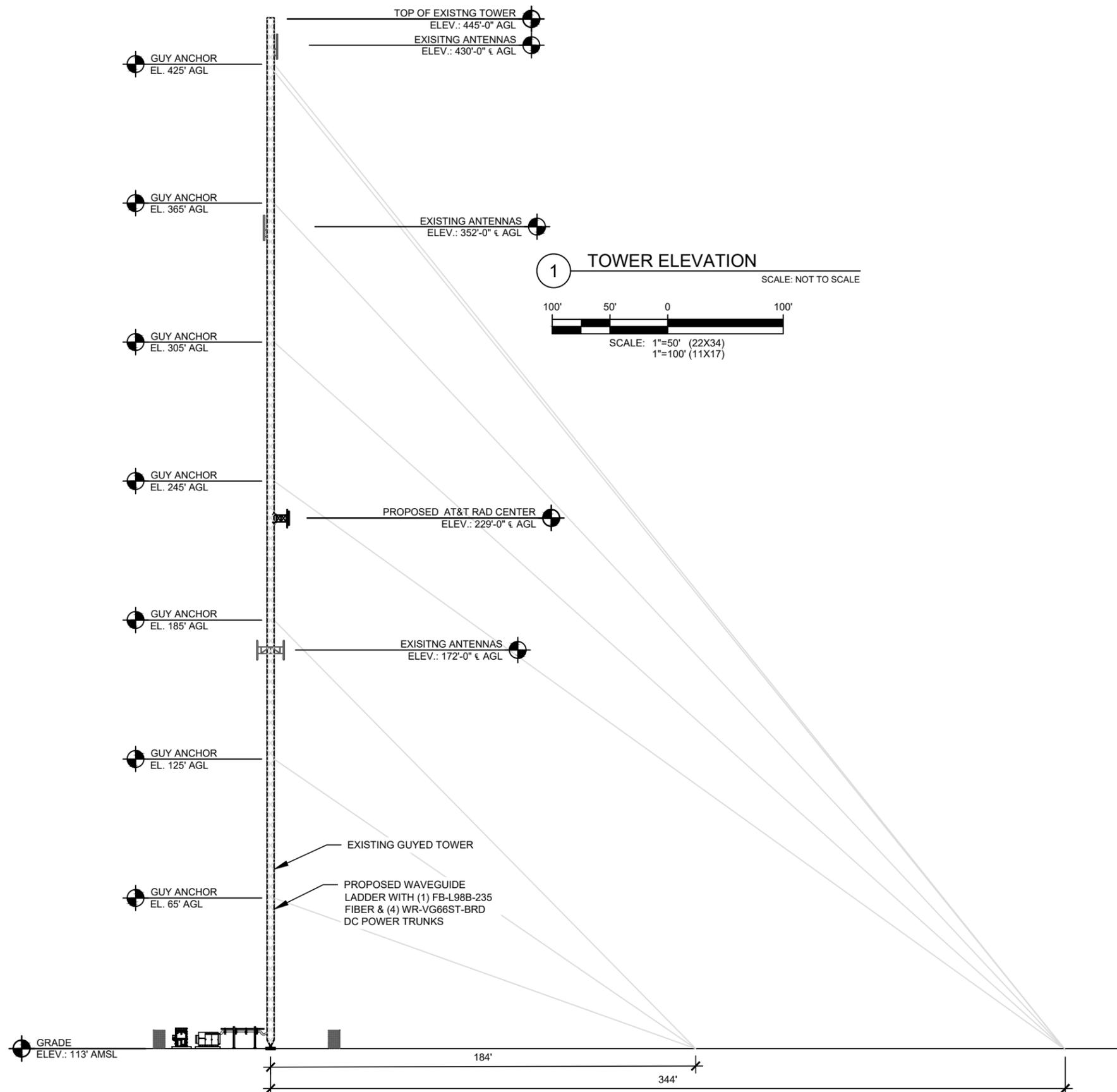
TOWER ELEVATION

SHEET NUMBER:

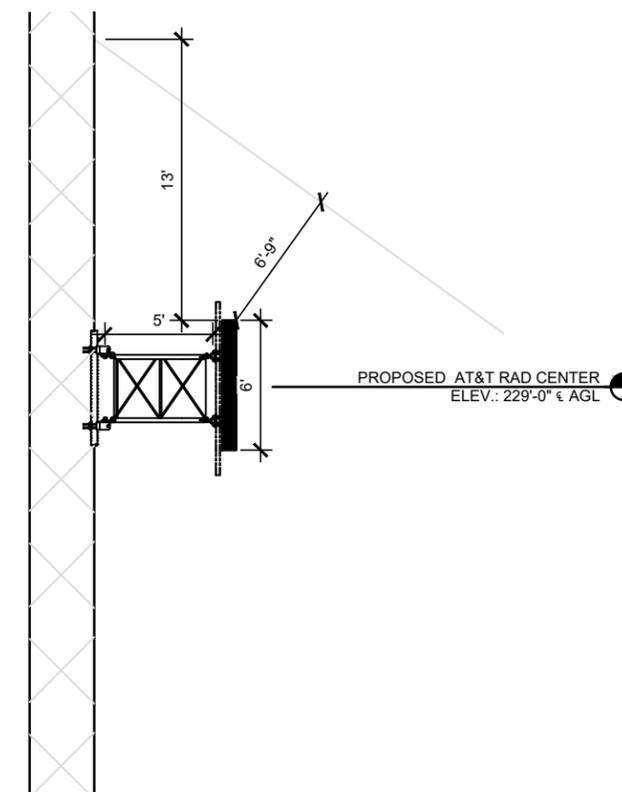
C-2

REFER TO THE PROVIDED STRUCTURAL DESIGN REPORT DRAWN BY STANTEC, DATED 03/13/25.

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1 TOWER ELEVATION  
SCALE: NOT TO SCALE  
SCALE: 1"=50' (22X34)  
1"=100' (11X17)



2 ENLARGED AT&T RAD SPACING  
SCALE: NOT TO SCALE

SMW JOB #24-5408



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ANTENNA PLAN

SHEET NUMBER:

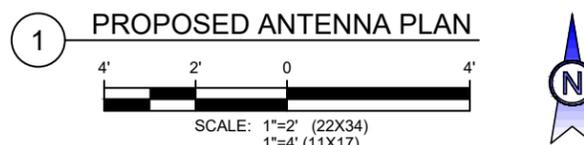
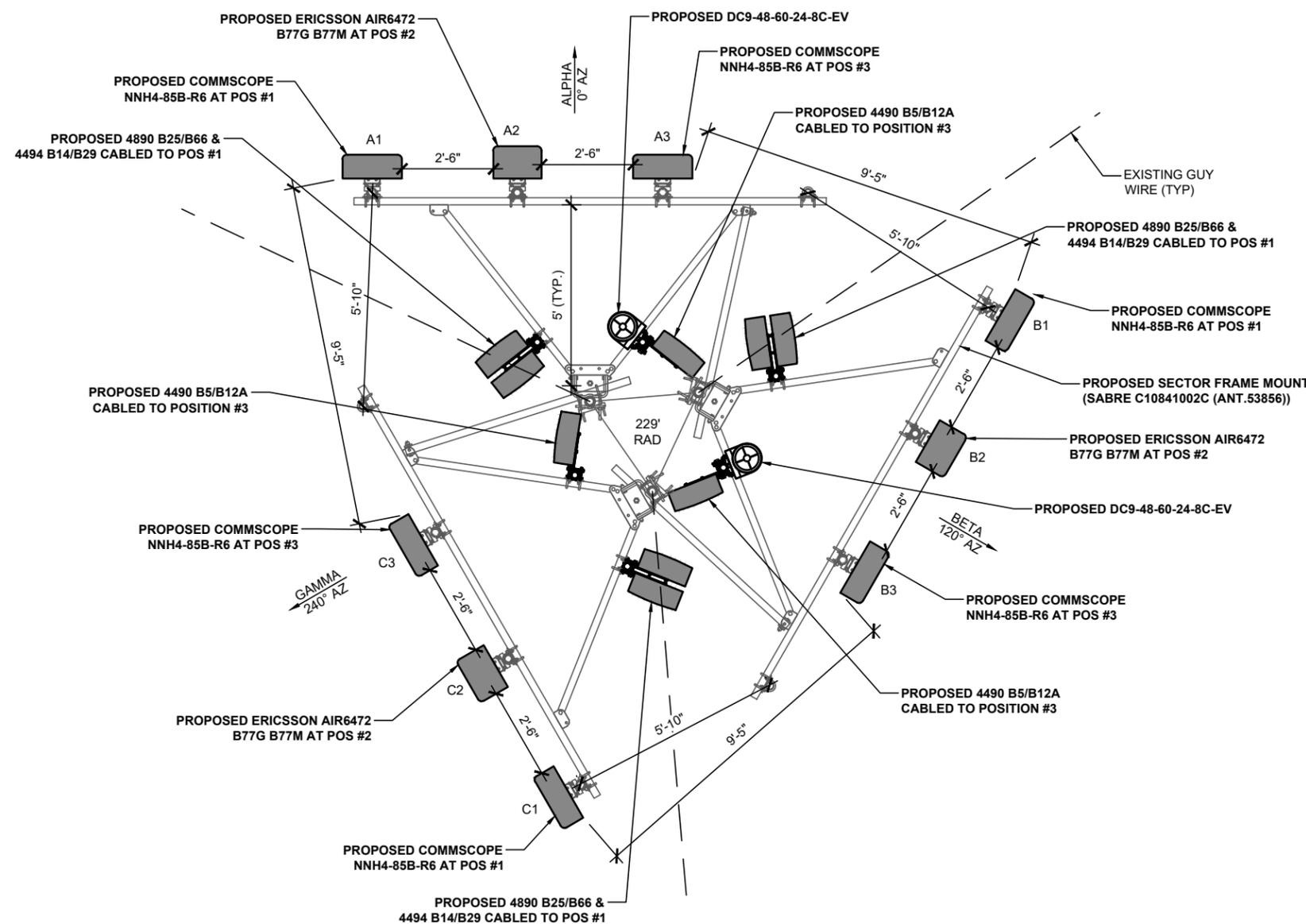
C-2.1

- ANTENNA PLACEMENT AND ALIGNMENT REQUIREMENTS:**  
INSTALL EQUIPMENT PER ATT-790-202-083 MACRO BUILDING STANDARDS, ISSUED 12/14/23:
- ALL ANTENNA HORIZONTAL AND CORNER SPACING AT MINIMUM OF 24" FROM EDGE TO EDGE OF ANTENNAS.
    - MAXIMIZE EDGE TO EDGE ANTENNA SPACING BEYOND 24" WHERE POSSIBLE
  - ALL ANTENNA SKEW TO MOUNT IS NOT APPROVED.
    - SKEW ALIGNMENT ACCURACY IS  $\pm 3^\circ$
  - ALL ANTENNA FACE SURFACES MUST ALIGN IN THE SAME PLANE WITHIN 2".
  - ALL RADIO, DCX, ANCILLARY EQUIPMENT TO BE MOUNTED AT LEAST 12" BEHIND ANTENNA MOUNTING PIPE.
    - JUMPERS ARE NOT RESTRICTED TO THIS REQUIREMENT
    - ROUTE CABLES AWAY FROM THE ANTENNA RATHER THAN UP AND BEHIND THE ANTENNA

**CORNER SPACING  
ANTENNA MOUNTING PIPE SPACING**

MOUNT NOMINAL LENGTH	MAXIMUM ANTENNA LENGTH	PIPE-TO-PIPE SPACING
10' (3 POSITION)	36"	42"
12' (4 POSITION)	24"	36"
14' (4 POSITION)	32"	40"
14' (5 POSITION)	18"	33"

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- NOTES:**
- THESE CDS, PREPARED BY SMW ENGINEERING GROUP, INC., DO NOT SPEAK TO THE STRUCTURAL INTEGRITY OF THE TOWER OR CARRIER EQUIPMENT INSTALLED ON THE TOWER. CONTRACTOR SHALL HAVE THE LATEST STRUCTURAL ANALYSIS AND LATEST MOUNT ANALYSIS IN HAND BEFORE ANY NEW EQUIPMENT INSTALLATION PERFORMED.
  - THIS ANTENNA ORIENTATION PLAN IS A SCHEMATIC. THE CONTRACTOR SHALL VERIFY TOWER ORIENTATION AND FIELD COORDINATE REQUIRED ADJUSTMENTS TO ACHIEVE THE DESIRED ANTENNA AZIMUTHS.
  - ANTENNA CENTERLINE HEIGHT BASED ON TOP OF FOOTING ELEVATION.
  - ALL ANTENNAS, CABLES AND MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWER ENGINEER'S RECOMMENDATIONS IN A MANNER CONSISTENT WITH THE STRUCTURAL ANALYSIS REPORT.
  - ALL ANTENNA BRACKETS PER ANTENNA MANUFACTURER, OR EQUAL CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNTILT WITH AT&T.

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ANTENNA & CABLE SCHEDULE

SHEET NUMBER:

C-2.1.1

DC / FIBER DEMARCATION BOX						
RAYCAP						
MOUNTING HEIGHT	MODEL	QTY.	MODEL	SIZE	QTY.	LENGTH PER LINE
229'	DC9-48-60-24-8C-EV	2	FB-L98B-235 FIBER TRUNK	0.39"	1	
-	-	-	WR-VG66ST-BRD DC POWER TRUNK	0.92"	4	
-	-	-	-	-	-	-

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FINAL ANTENNA SCHEDULE															
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY				CABLES				
SECTOR	RAD	AZ	POS	MAKE	MODEL	QTY.	RADIOS	QTY.	ADDITIONAL TOWER MOUNTED EQUIPMENT	QTY.	MODEL	SIZE	QTY.	LENGTH PER LINE	COLOR CODE
ALPHA	229'	0°	A1	COMMSCOPE	NNH4-85B-R6	1	4890 B25/B66 4494 B14/B29	1 1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 4 2 8	15'-0" 15'-0" 15'-0" 12'-0"	1 RED
	229'	0°	A2	ERICSSON	AIR6472 B787G B77M	1	-	-	-	-	FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 7/16" 1/2"	1 2 8	15'-0" 15'-0" 12'-0"	2 RED
	229'	0°	A3	COMMSCOPE	NNH4-85B-R6	1	4490 B5/B12A	1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 1 2 8	15'-0" 15'-0" 15'-0" 12'-0"	3 RED
	-	-	A4	-	-	-	-	-	-	-	-	-	-	-	-
BETA	229'	120°	B1	COMMSCOPE	NNH4-85B-R6	1	4890 B25/B66 4494 B14/B29	1 1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 4 2 8	15'-0" 15'-0" 15'-0" 12'-0"	1 YELLOW
	229'	120°	B2	ERICSSON	AIR6472 B787G B77M	1	-	-	-	-	FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 7/16" 1/2"	1 2 8	15'-0" 15'-0" 12'-0"	-
	229'	120°	B3	COMMSCOPE	NNH4-85B-R6	1	4490 B5/B12A	1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 1 2 8	15'-0" 15'-0" 15'-0" 12'-0"	3 YELLOW
	-	-	B4	-	-	-	-	-	-	-	-	-	-	-	-
GAMMA	229'	240°	G1	COMMSCOPE	NNH4-85B-R6	1	4890 B25/B66 4494 B14/B29	1 1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 4 2 8	15'-0" 15'-0" 15'-0" 12'-0"	1 GREEN
	229'	240°	G2	ERICSSON	AIR6472 B787G B77M	1	-	-	-	-	FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 7/16" 1/2"	1 2 8	15'-0" 15'-0" 12'-0"	-
	229'	240°	G3	COMMSCOPE	NNH4-85B-R6	1	4490 B5/B12A	1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 1 2 8	15'-0" 15'-0" 15'-0" 12'-0"	3 GREEN
	-	-	G4	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL						9	TOTAL		9						

TOTAL COAX FEEDLINE	0	0'-0"
TOTAL FIBER JUMPER	18	270'-0"
TOTAL DC JUMPER	18	270'-0"
TOTAL COAX JUMPERS	72	864'-0"
TOTAL 3/8" RET JUMPERS	6	90'-0"

SMW JOB #24-5408



SMW JOB #24-5408

AT&T FA  
15743282  
SITE NAME  
CLAY HOLE CREEK  
CROWN CASTLE SITE NUMBER  
870209  
SITE ADDRESS  
4604 SOUTHWEST STATE ROAD 47  
LAKE CITY, FL 32055

ISSUED FOR:

REV	DESCRIPTION	BY	DATE
A	CLIENT REVIEW	DAJ	04/08/25
B	PERMITTING	ZDS	05/27/25

CA# 33693

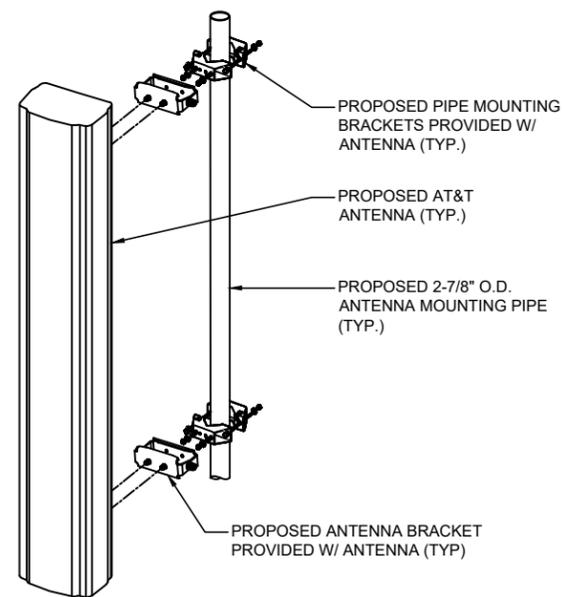
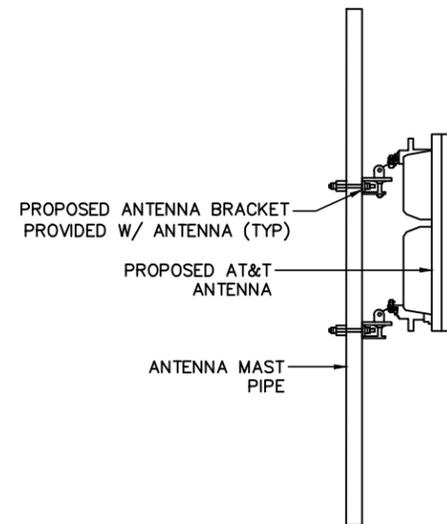
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MOUNTING DETAILS

SHEET NUMBER:

C-2.2



1 ANTENNA MOUNTING DETAIL  
SCALE: NOT TO SCALE



AT&T FA  
15743282  
SITE NAME  
CLAY HOLE CREEK  
CROWN CASTLE SITE NUMBER  
870209  
SITE ADDRESS  
4604 SOUTHWEST STATE ROAD 47  
LAKE CITY, FL 32055

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CA# 33693

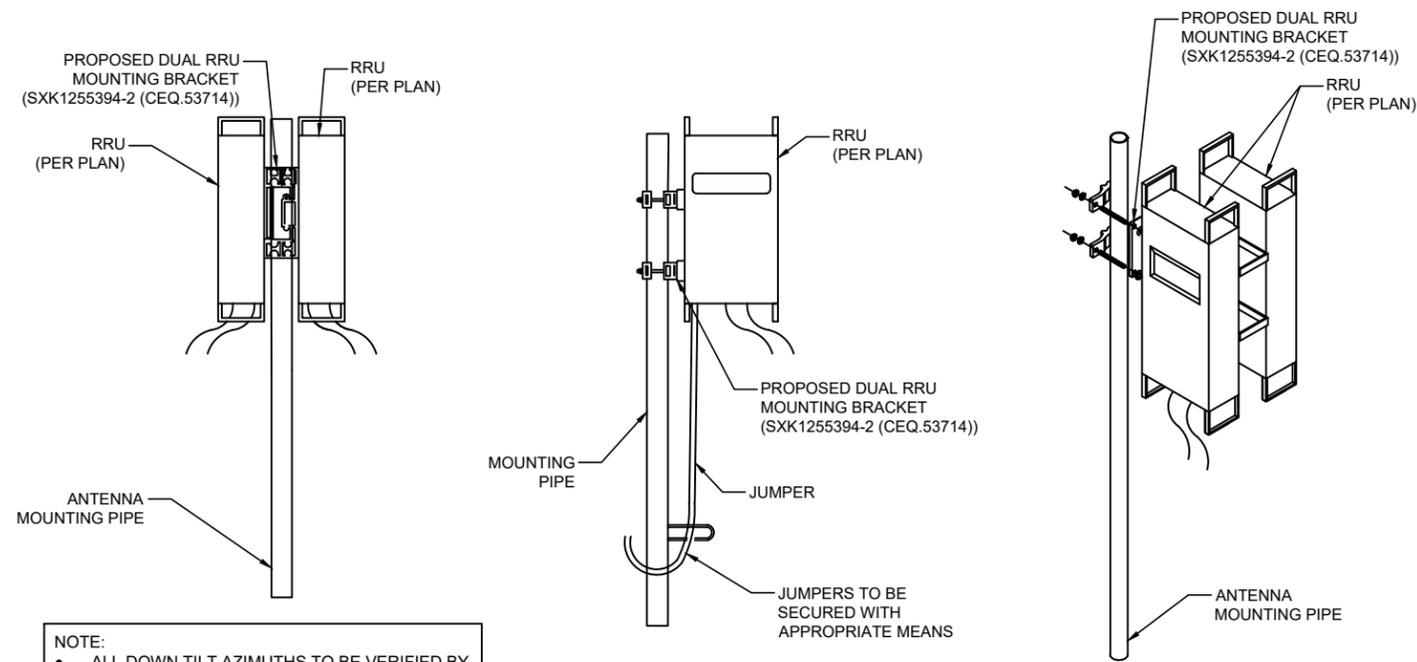
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MOUNTING DETAILS

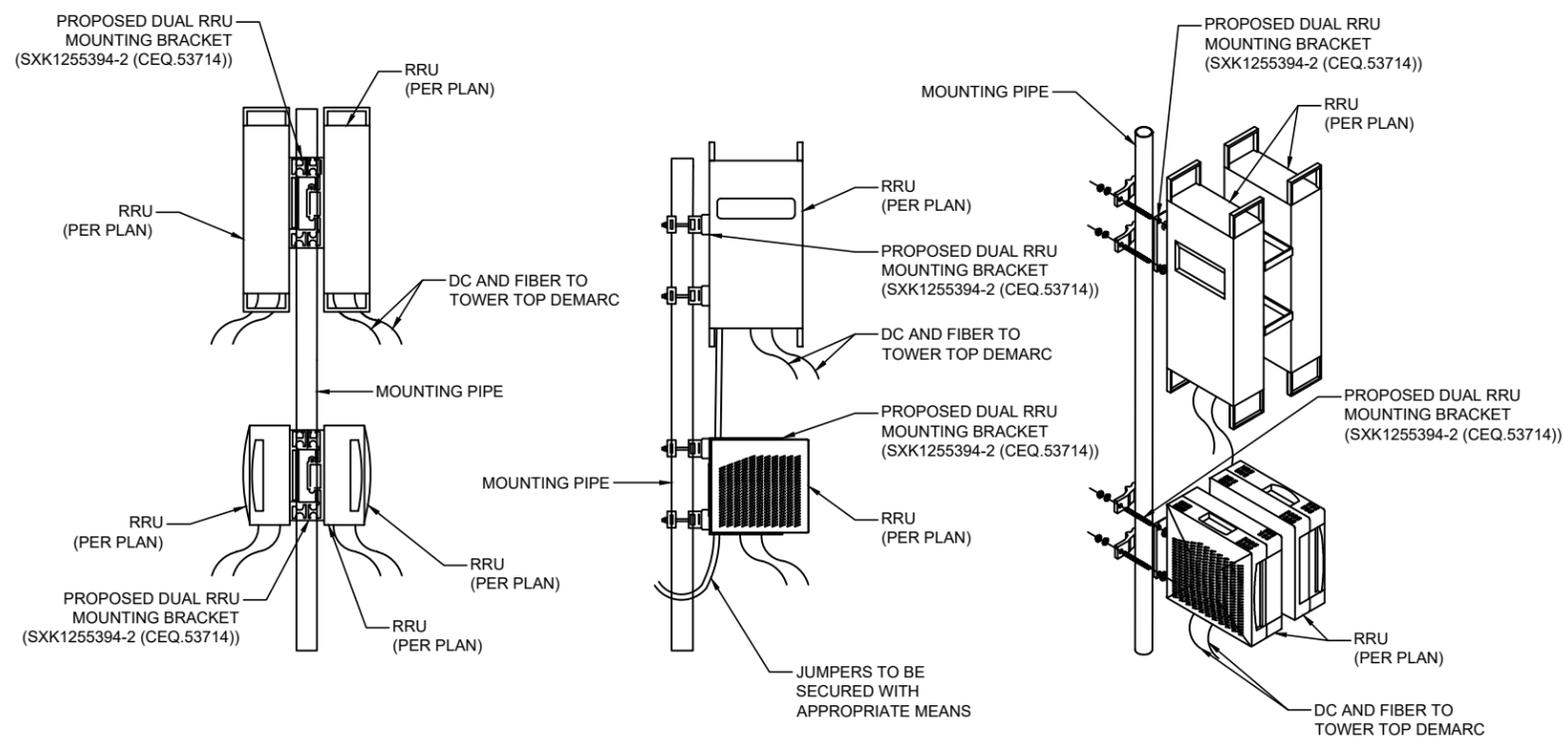
SHEET NUMBER:

C-2.2.1



NOTE:  
• ALL DOWN TILT AZIMUTHS TO BE VERIFIED BY RF SITE DATA SHEET. SEE CONSTRUCTION MANAGER FOR INFORMATION.  
• SEE THE LATEST RFDS FOR RADIO TYPES

1 BACK TO BACK MOUNTING DETAIL  
SCALE: NOT TO SCALE



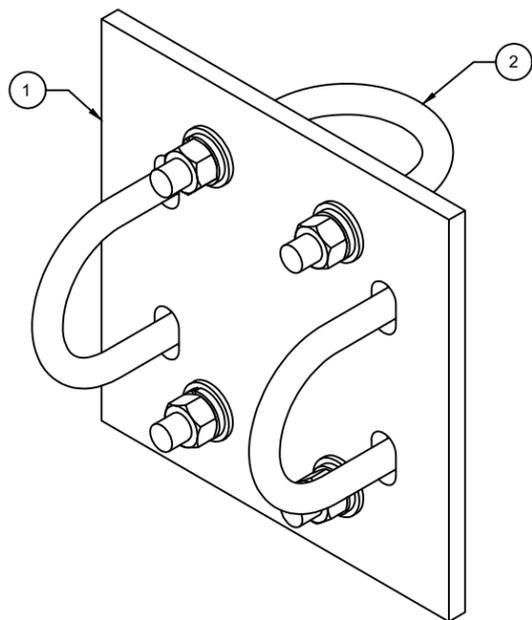
2 STACKED MOUNTING DETAIL  
SCALE: NOT TO SCALE

SMW JOB #24-5408

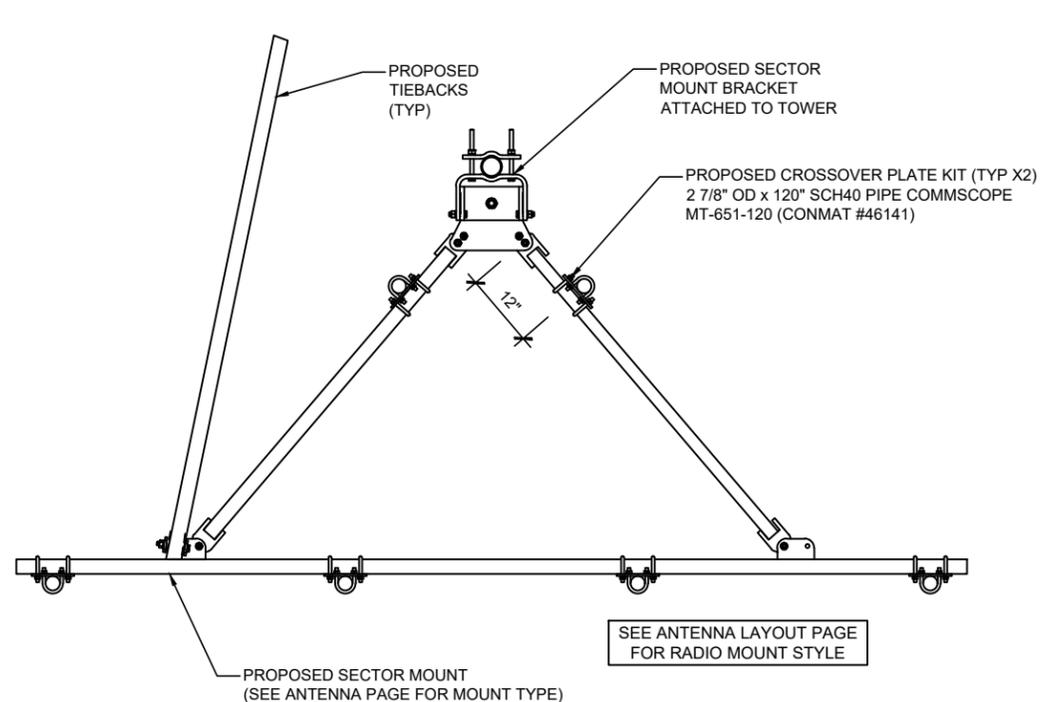
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DESCRIPTION	QTY.	WEIGHT
PLATE 2-3/8" O.D. TO 2-3/8" O.D.	1	6.34 LBS
1/2" X 4" GALV U-BOLT KIT	4	0.57 LBS

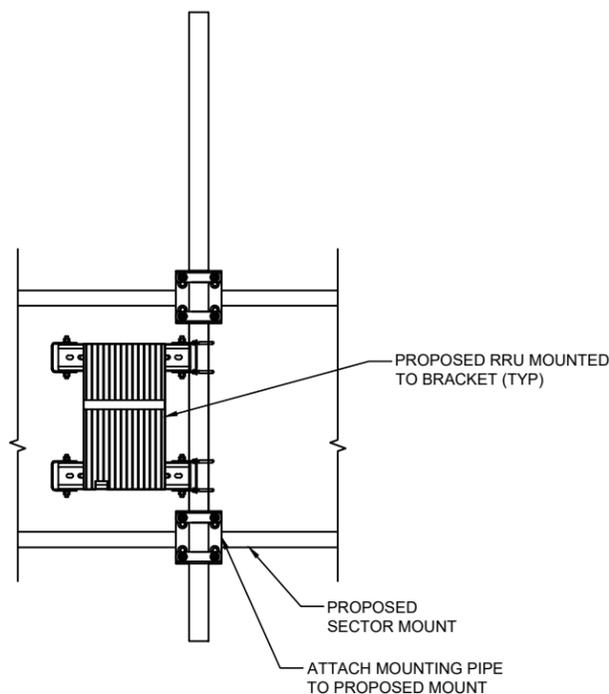
REVISIONS				
REV	ZONE	DESCRIPTION	BY	DATE
A		INITIAL RELEASE	MLO	05/24/99
B		REDRAWN AND ADDED BOM	MA	04/19/01
C		REMOVED 1 VIEW	JTS	06/07/01



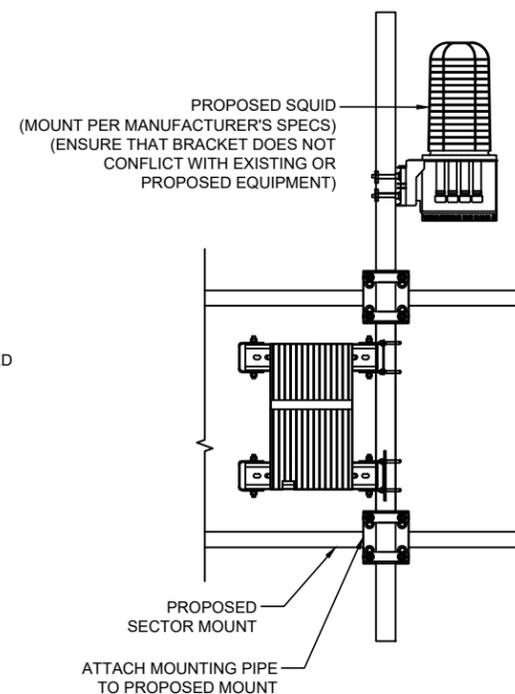
These drawings and specifications are the proprietary property of ANDREW CORPORATION and may be used only for the specific purpose authorized in writing by Andrew Corporation.	REVISED BY: ACG	DATE: 1 of 1	DRAWING NO: XP-2020
ALL DIMENSIONS ARE IN INCHES U.O.S. TOLERANCES UNLESS OTHERWISE SPECIFIED: X = ± .06 ANGLES ±2° XX = ± .03 FRACTIONS ±1/32 XXX = ± .010 REMOVE BURRS AND BREAK EDGES .005 DO NOT SCALE THIS PRINT	DESIGNED BY: TP	SCALE: NTS	DESCRIPTION: CROSSOVER PLATE KIT 2.375" O.D. X 2.375" O.D.
	DATE: 01/07/05	REVISED BY: A36	DESCRIPTION: ASSEMBLY DRAWING
	REVISION: C	DATE: GALV A123	DESCRIPTION: ORLAND PARK, IL. 60462 U.S.A.
		WEIGHT: 9.22 LBS	<b>ANDREW</b> U.S.A.



PLAN VIEW



ELEVATION VIEW



AT&T FA  
 15743282  
 SITE NAME  
 CLAY HOLE CREEK  
 CROWN CASTLE SITE NUMBER  
 870209  
 SITE ADDRESS  
 4604 SOUTHWEST STATE ROAD 47  
 LAKE CITY, FL 32055

ISSUED FOR:

REV	DESCRIPTION	BY	DATE
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B	PERMITTING	ZDS	05/27/25

CA# 33693

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MOUNTING DETAILS

SHEET NUMBER:

C-2.2.2

SMW JOB #24-5408



SMW JOB #24-5408

AT&T FA  
15743282

SITE NAME  
CLAY HOLE CREEK  
CROWN CASTLE SITE NUMBER  
870209  
SITE ADDRESS  
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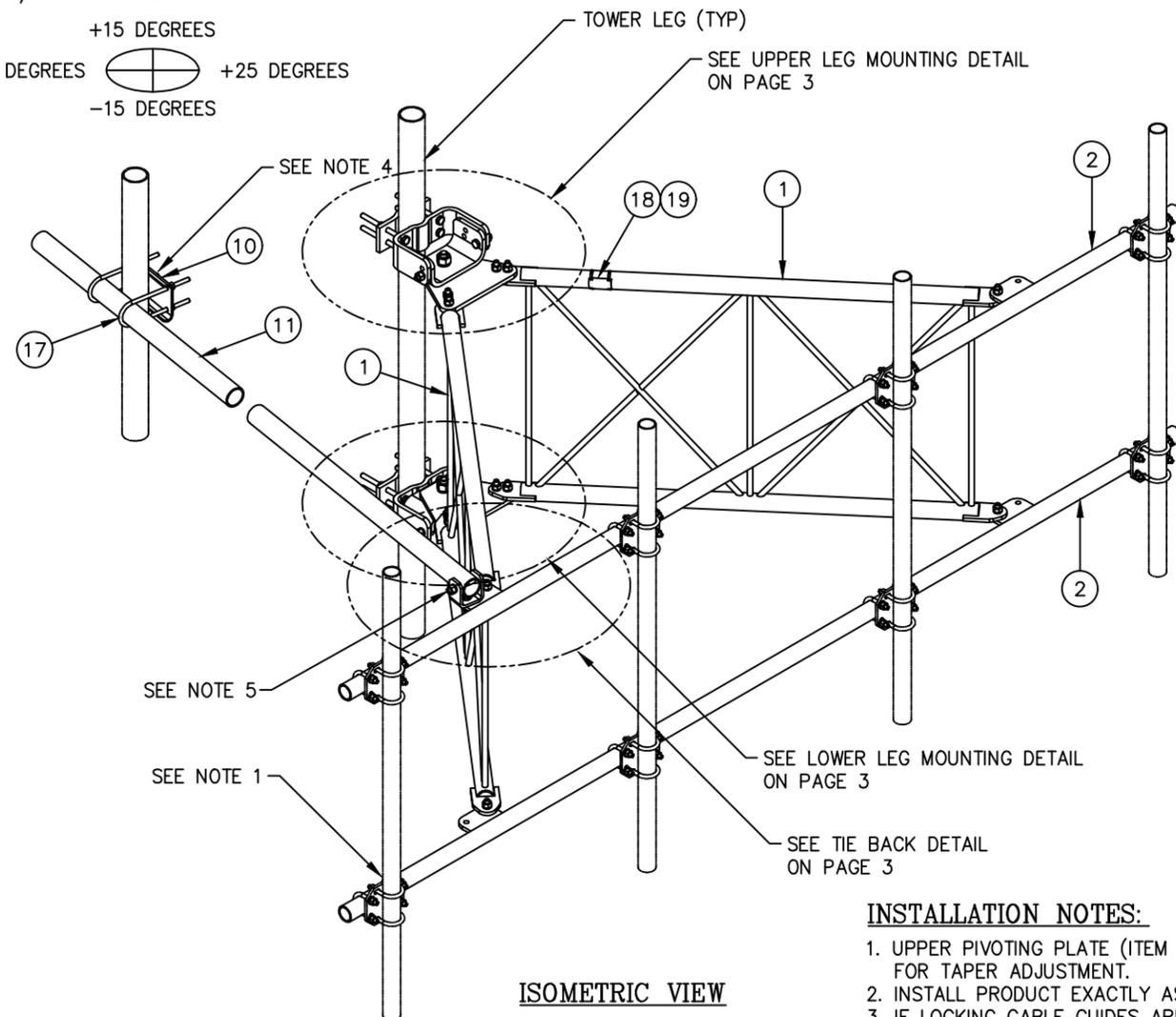
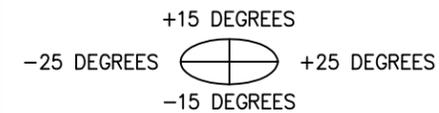
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MOUNT DETAILS

SHEET NUMBER:  
**C-2.2.3**

**TIEBACK ANGLE RANGE DETAIL**

+/- 15 DEGREES VERTICAL  
+/- 25 DEGREES HORIZONTAL



**ISOMETRIC VIEW**

**INSTALLATION NOTES:**

- UPPER PIVOTING PLATE (ITEM 4) HAS THREE HOLES ON EACH SIDE AND UPPER LEG CLAMP PLATE (ITEM 5) HAS TWO HOLES ON EACH SIDE FOR TAPER ADJUSTMENT.
- INSTALL PRODUCT EXACTLY AS SHOWN IN DRAWING, WITH ALL BOLTS FACING UPWARDS.
- IF LOCKING CABLE GUIDES ARE REQUIRED THEY MUST BE PURCHASED SEPARATELY (SEE PAGE 4).

**NOTES:**

- MOUNTING PIPES & CROSSOVER PLATE KITS MUST BE PURCHASED SEPARATELY.
- QUANTITIES SHOWN IN LISTS OF MATERIAL ARE FOR ONE (1) V-BOOM ONLY.
- THIS V-BOOM WILL MOUNT TO THE FOLLOWING: 1 1/2"Ø TO 5 9/16"Ø ROUND LEG.
- TIEBACK MUST BE CONNECTED TO A RIGID MEMBER THAT PROVIDES ADEQUATE SUPPORT WITHIN THE LIMITS NOTED ABOVE IN THE TIEBACK ANGLE RANGE DETAIL UNLESS APPROVED BY THE ENGINEER OF RECORD.
- THE TIEBACK IS SHOWN IN THIS POSITION AS A DEFAULT. THIS TIEBACK CAN BE CONNECTED AT ANY (1) OF THE (4) POSITIONS ON THE TABS ON THE FACE PIPE.

C10841002C 12' V-BOOM ASSEMBLY W/TIEBACK				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	2	CW01556	WELDMENT, STANDOFF ARM	192
2.	2	CW01223	WELDMENT, FACE PIPE	147
3.	2	CS03519	PLATE, ROTATING	35
4.	1	CS03110	PLATE, PIVOTING (UPPER)	16
5.	1	CS03111	PLATE, LEG CLAMP (UPPER)	17
6.	1	CS03112	PLATE, PIVOTING (LOWER)	14
7.	1	CS03113	PLATE, LEG CLAMP (LOWER)	17
8.	2	CS03114	PLATE, LEG CLAMP (BACK)	14
9.	1	CS00096	PLATE, TIEBACK SWIVEL	3
10.	1	CS03518	PLATE, TIEBACK CLAMP	5
11.	1	CS00249	PIPE, TIEBACK 2 7/8" O.D. X 0.203 X 15'-6	93
12.	2	C40026073	BOLT ASSEMBLY, 1 Ø X 3 A325	4
13.	8	C40140004	BOLT ASSEMBLY, 5/8 Ø X 8 A307	13
14.	1	C40026035	BOLT ASSEMBLY, 5/8 Ø X 5 A325	1
15.	12	C40026025	BOLT ASSEMBLY, 5/8 Ø X 2 1/2 A325	6
16.	5	C40026024	BOLT ASSEMBLY, 5/8 Ø X 2 1/4 A325	3
17.	2	C40034201	U-BOLT ASSEMBLY, 1/2 Ø X 3 7/16 C-C	3
18.	1	Z30992044	MOUNT CLASSIFICATION TAG C10841001C/C10841002C	1
19.	2	C40062103	STAINLESS STEEL SELF-LOCKING CABLE TIE	1
TOTAL WEIGHT				585

**PACKAGING NOTE**

- CK00426-INCLUDES ITEM 1
- CK00427-STL INCLUDES ITEMS 2 & 11
- CK00427-HDW INCLUDES ITEMS 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18 & 19.

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

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INNOVATION DELIVERED

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12' V-BOOM ASSEMBLY W/TIEBACK (5' STANDOFF) W/NO ANTENNA MOUNTING PIPES			
DATE	06/07/21	SIZE	B
DRAWN BY	WRF	DRAWING NO.	C10841002C
CHECKED BY	EK	REV	0
SCALE		PAGE	
None		1 OF 4	

DETAILS BY OTHERS NOTE:  
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AT&T FA  
15743282  
SITE NAME  
CLAY HOLE CREEK  
CROWN CASTLE SITE NUMBER  
870209  
SITE ADDRESS  
4604 SOUTHWEST STATE ROAD 47  
LAKE CITY, FL 32055

ISSUED FOR:

REV	DESCRIPTION	BY	DATE
A	CLIENT REVIEW	DAJ	04/08/25
B	PERMITTING	ZDS	05/27/25

CA# 33693

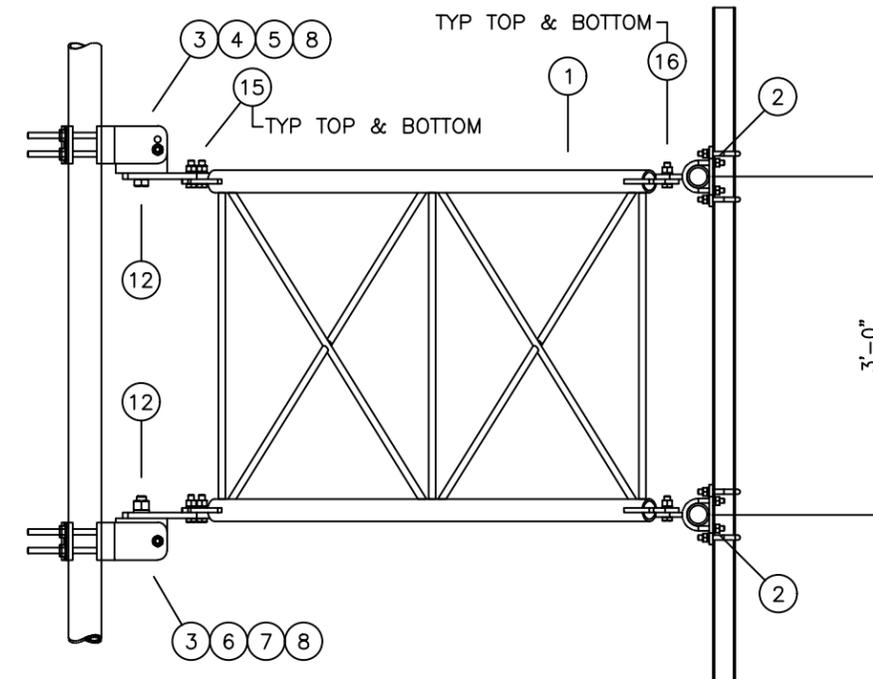
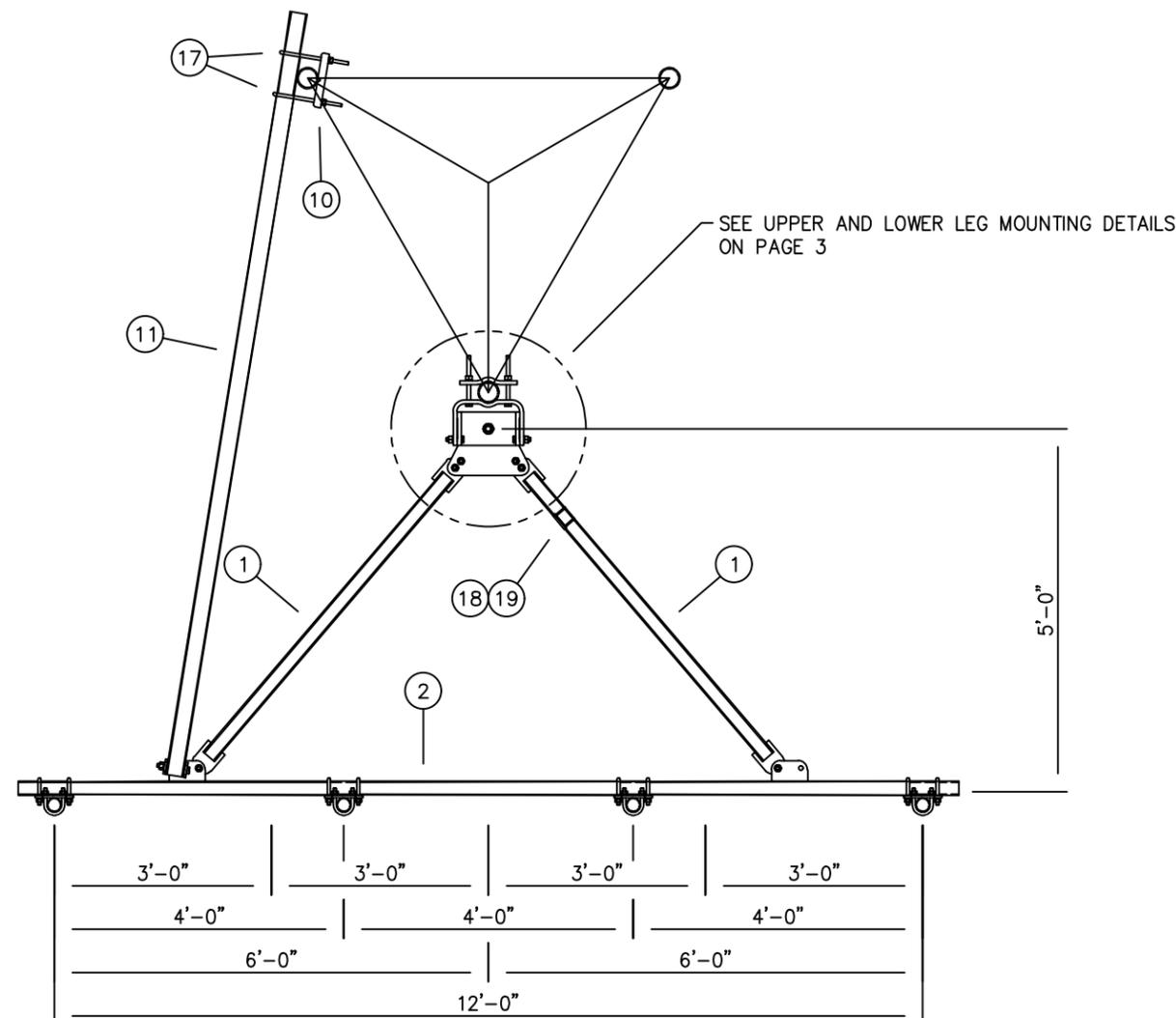
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MOUNT DETAILS

SHEET NUMBER:  
**C-2.2.4**

SMW JOB #24-5408



SIDE VIEW

**MOUNTING OPTIONS**  
SHOWING MOUNTING PIPE PLACEMENTS

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
REV	DATE	DRW/CHK	DESCRIPTION



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12' V-BOOM ASSEMBLY W/TIEBACK  
(5' STANDOFF)  
W/NO ANTENNA MOUNTING PIPES

DATE	06/07/21	SIZE	B	DRAWING NO.	C10841002C	REV	0
DRAWN BY	WRF	SCALE	None	PAGE	2 OF 4		
CHECKED BY	EK						

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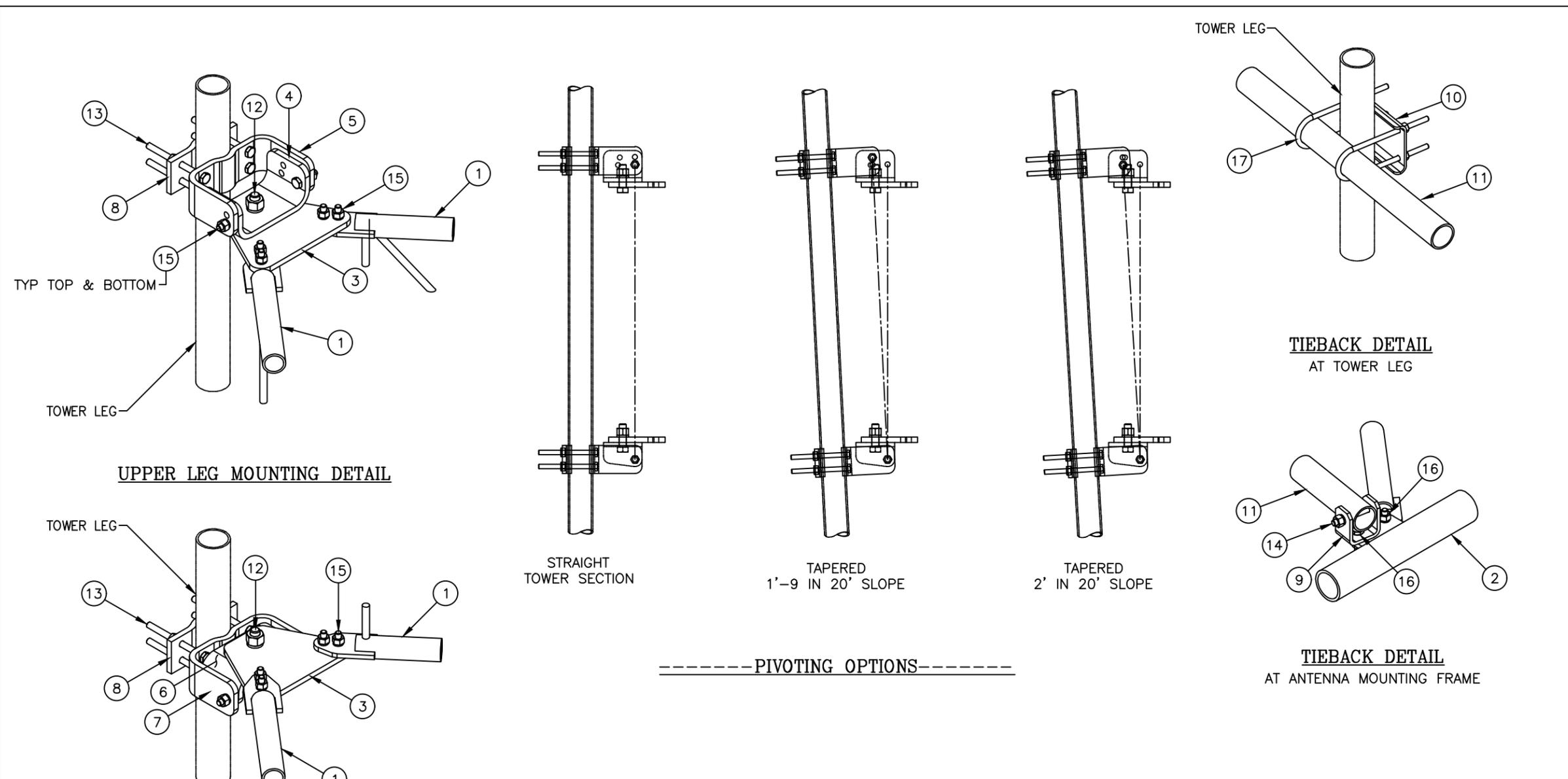
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MOUNT DETAILS

SHEET NUMBER:  
**C-2.2.5**

SMW JOB #24-5408



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TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"  
MATERIAL:  
TOLERANCES DO NOT APPLY TO RAW MATERIAL



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12' V-BOOM ASSEMBLY W/TIEBACK (5' STANDOFF)  
W/NO ANTENNA MOUNTING PIPES

REV	DATE	DRW/CHK	DESCRIPTION

DATE	06/07/21	SIZE	B	DRAWING NO.	C10841002C	REV	0
DRAWN BY	WRF	SCALE	None	PAGE	3 OF 4		
CHECKED BY	EK						

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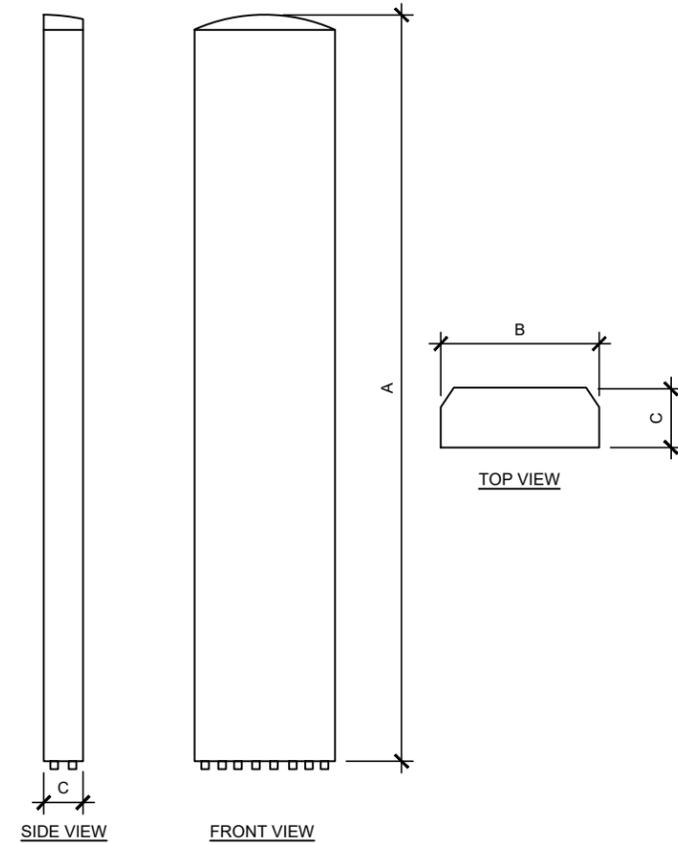
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TOWER EQUIPMENT SPECS

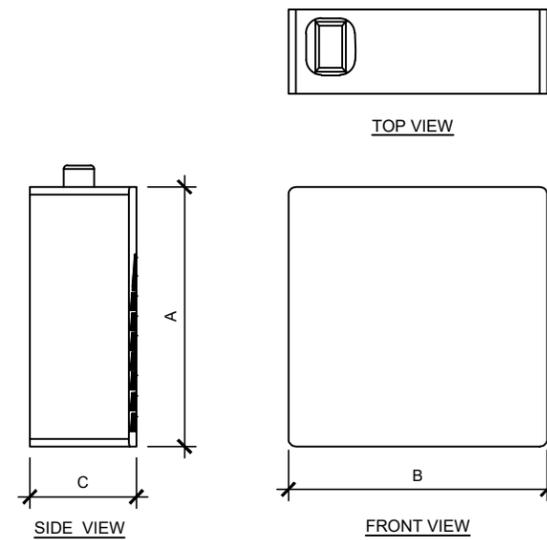
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C-2.3

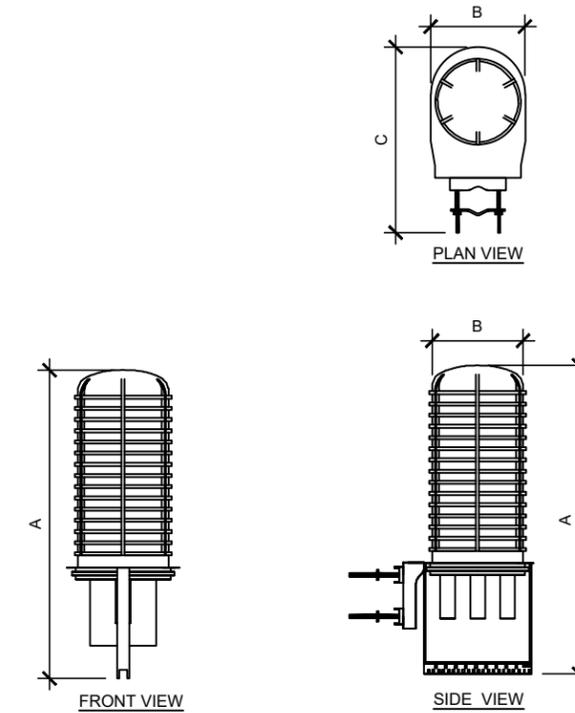
SMW JOB #24-5408



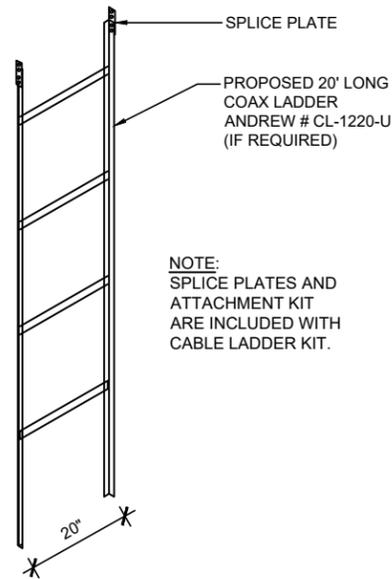
ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
NNH4-65B-R6	72.0"	19.6"	7.8"	72.3
AIR 6472 B77G B77M	36.3"	15.8"	7.4"	67.2



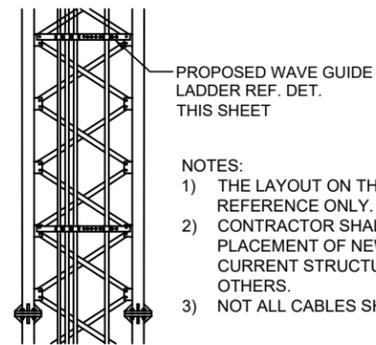
RRU SPECIFICATIONS					
RRU MODEL	A	B	C	WEIGHT (LBS)	
4890 B25 / B66	20.6"	15.7"	8.26"	67.2	
4494 B14/B29	15.0"	13.2"	10.9"	72.0	
4490 B5 / B12A	20.6"	15.6"	7.0"	65.0	



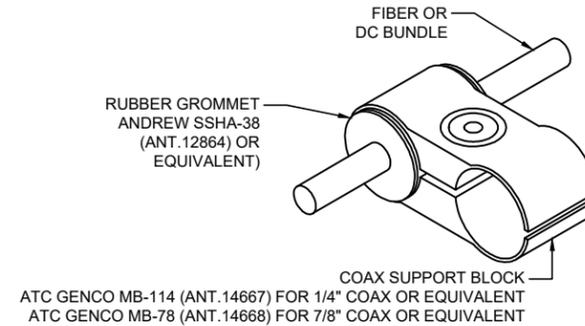
RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC9-48-60-24-8C-EV	31.4"	18.3"	10.2"	16.0



**1 LADDER DETAIL**  
SCALE: NOT TO SCALE



**2 WAVEGUIDE DETAIL**  
SCALE: NOT TO SCALE



**3 CABLE CONFIGURATION DETAIL**  
SCALE: NOT TO SCALE



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TOWER EQUIPMENT DETAILS

SHEET NUMBER:

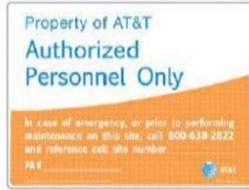
**C-2.4**

SMW JOB #24-5408

**Section 1: Standard Cell Site Signage**

➤ AT&T owned sites require the following signs:

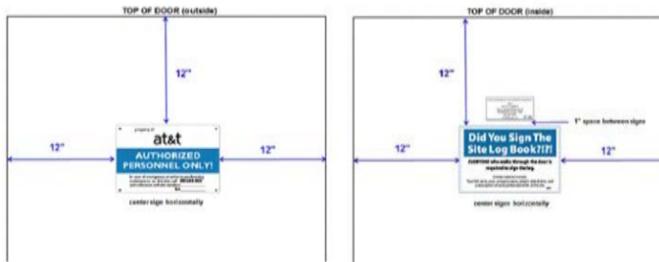
- 1. Gate sign
  - 15" x 20" aluminum gate sign



- 2. Door sign (shelter or tenant improvement room)
  - 8" x 12" door sign



**Recommended layouts for main shelter door**



**NEW INFO-2 SIGN POLICY**

Effective immediately, Information 2 signs shall be retired from AT&T sign inventory and 5"x7" Caution Sign 2C sign will be used instead.

Vendors/AT&T Field technicians shall remove existing "Information Sign 2" signs that currently exist at the site (i.e. parapet mount) and replace them with the following "Caution Sign 2C sign which has 5"x7" dimension.



INFORMATION Sign 2

Caution Sign 2C

**SITE SIGNAGE PLACEMENT:**  
ALL SIGNS SHALL BE SECURED TO THE COMPOUND FENCE LEFT OR RIGHT OR THE MAIN ACCESS GATE AND ON THE SITE OF THE SITE FACING THE ENTRANCE DRIVE. ALL SIGNS SHALL BE SECURED TO THE FENCE AT A HEIGHT SUITABLE FOR EASE OF VIEWING AND REASONABLY LEVEL. ALL SIGNS SHALL BE SECURED TO THE FENCE WITH STEEL HOG RINGS OR METAL TIES, NYLON OR PLASTIC ZIP TIES ARE NOT ALLOWED. SITE IDENTIFICATION SIGNAGE SHALL BE PLACED AT THE ROAD GATE IF NEEDED.

- 3. FCC Custodial License sign (note change in address for FCC Group effective 9/2017)
  - 3" x 6.5"



- 4. No Trespassing signs



➤ AT&T leased sites (not owned by AT&T) only require a door and FCC Custodial License sign

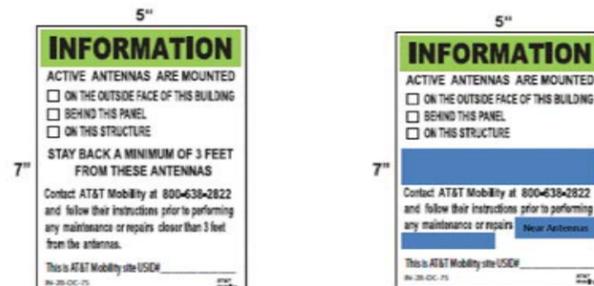
**Combination sign packages for shelters and WIC (Walk-In-Cabinet):**

➤ Available from Excel Signs, item # ATT-SWIC-DC-3KIT. Includes door, log book and FCC Custodial Letter signs



**NEW INFO-2 SIGN POLICY (Existing Historical Signs)**

If Information sign 2 sign/s are not able to be removed (i.e. existing stocks or damage risk to structure, the verbiage will be covered as example on bottom right as well as adding "Near Antenna" with a marker



INFORMATION Sign 2

Covered INFORMATION Sign 2

**Section 4: FCC Signs**

➤ Antenna Structure Registration (ASR) sign

- 1. 8" x 12" sign



➤ FCC custodial letter

- 1. 3" x 6.5" decal sign (available through Excel Sign, part #ATT DC CUS 653)



**OR**

- 2. 8.5" x 11" standard paper



**Section 6: Miscellaneous signs**

The following signs are optional and may be posted as needed:

- Log Book sign
  - 1. Posting on inside of shelter door recommended



- Padlock decal
  - 1. Can be affixed to padlocks to indicate an AT&T lock
  - 2. Can also be used to label items such as electrical disconnect boxes, electrical meters, etc.
  - 3. 1" x 8" decal if ordered from Excel Sign



➤ Gate signs



➤ Door Exit sign

- 1. May be posted on the inside of shelter doors at sites currently not equipped with an Exit sign (or emergency light/exit sign combination) above the door
- 2. Sign has glow in the dark letters and border to aid visibility
- 3. Excel part # EXT-128-DL



AT&T FA  
15743282  
SITE NAME  
CLAY HOLE CREEK  
CROWN CASTLE SITE NUMBER  
870209  
SITE ADDRESS  
4604 SOUTHWEST STATE ROAD 47  
LAKE CITY, FL 32055

**ISSUED FOR:**

REV	DESCRIPTION	BY	DATE
A	CLIENT REVIEW	DAJ	04/08/25
B	PERMITTING	ZDS	05/27/25

CA# 33693

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SITE SIGNAGE

SHEET NUMBER:

C-3

SMW JOB #24-5408

**Section 2: Outdoor Cabinet Site Signage**

Outdoor sites require the same gate and no trespassing signs as indoor sites if owned by AT&T. In place of the door sign the cabinets must have the following signs:

- Single cabinet sites require a sign, such as a door sign, that indicates AT&T as the owner and has provisions for adding the site number along with the MNRRC contact number
  - Sign must be affixed to the side of the cabinet (front, rear or side) which is most visible when approaching the cabinet from the site access point
    - 8" x 12" decal acceptable for outdoor cabinet



- Multiple cabinet sites require the sign specified in the previous bullet attached to the side of each cabinet on the end of the lineup. In addition, a sign indicating AT&T as the owner must be affixed to the front or rear of every cabinet (not both).
  - AT&T identification sign is to be affixed to the most visible area (front or rear) when approaching the cabinets from the site access point
    - 3" x 6.5" decal is acceptable for front or rear of outdoor cabinets



- Example of AT&T identification signs on outdoor cabinets (signs on each end of lineup not shown but are required)



- Miscellaneous enclosures such as AC electrical boxes and meter housings, shall have an AT&T identification sign attached. Acceptable signs are engraved phenolic labels, the 3" x 6.5" sign shown above or the padlock decal shown on page 12 or an equivalent type of sign indicating AT&T ID

- Diesel generators installed outdoors**, such as on a pad in a compound, shall have signs affixed to the tank on both of the long sides of the generator. For belly tank style generators, if signs will not properly adhere to the tank they may be installed on the generator housing (alternate locations shown in yellow boxes below)
  - AT&T identification sign, 8" x 12" or 3" x 6.5"
  - Hazard diamond sign, 15" x 15" with 6" numbers (1-2-0)
  - Yellow EH&S sign, approximately 10" x 10"
  - Diesel Fuel, Combustible, No Smoking (Excel combination sign is recommended)

**Note:** for stand-alone tank style generators (not belly tank) the only required sign on the generator itself is the AT&T identification sign. All 4 signs listed above will be installed on the stand-alone fuel tank

**Belly Type Tank Style Generator**



**NOTE:** if ribs on the generator tank do not allow enough room to place signs, it is acceptable to affix the signs to the generator housing

**Stand-alone Type Tank Style**



**Section 3: Fixed Generator Signage (continued)**

Per AT&T EH&S, fixed generators are required to have the following signage:

- AT&T identification sign, 8" x 12" or 3" x 6.5"



OR



- Yellow EH&S sign



- Fuel type, Combustible (Diesel), Flammable (Propane & Natural Gas) and No Smoking signs (individual signs or the Excel combination sign shown below are acceptable). Fuel tank capacity is optional



- Hazard diamond sign, 15" x 15" with 6" numbers (1-2-0) Diesel only



**Section 3: Fixed Generator Signage (continued)**

Diesel generator signs may be purchased in a kit from Excel Signs (link below). The kit contains 2 of each required sign and provides all of the signage needed for a diesel generator site

**Excel Sign Diesel Generator Combo Pack**



**Diesel Generator Combo Pack**

Consists of:

- (2) Diesel Fuel 15x12 Decals
- (2) EH&S 11x11 Decals
- (2) NFPA Pre-printed 120 15x15 Decals
- (2) ATT Mobility 6.5x3 Logo Decals

Natural gas and propane generators signage requirements are identical to diesel generators with the exception that the Hazard Diamond sign is not required unless mandated by the Authority Having Jurisdiction (AHJ). Combination signs are available for both natural gas and propane through Excel sign. A combo sign pack is also available for propane generators.

**Excel Sign Propane Generator Combo Pack**



**Propane Generator Combo Pack**

Consists of:

- (2) Propane Fuel 15x12 Decals
- (2) EH&S 11x11 Decals
- (2) NFPA Pre-printed 240 15x15 Decals
- (2) ATT Mobility 6.5x3 Logo Decals

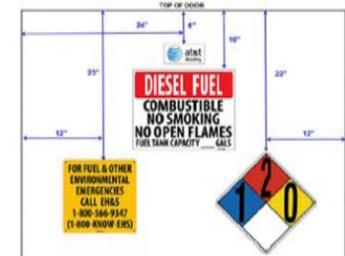
**Section 3: Fixed Generator Signage (continued)**

Per AT&T EH&S, fixed generators are required to have signage posted as follows:

- Diesel generators installed indoors**, such as a shelter generator room, shall have signs affixed to the entrance door to the room the generator is housed in and one of the long sides of the generator tank. If signs will not properly adhere to the tank they may be installed on the end of the generator housing (yellow box on far right photo below)
  - AT&T identification sign, 8" x 12" or 3" x 6.5"
  - Hazard diamond sign, 15" x 15" with 6" numbers (1-2-0)
  - Yellow EH&S sign
  - Diesel Fuel, Combustible, No Smoking signs (Excel combination sign is recommended)



Recommended layout for a 4' x 7' generator room door



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EQUIPMENT & GENERATOR SIGNAGE

SHEET NUMBER:  
**C-3.1**

SMW JOB #24-5408

- ICE BRIDGE NOTE:**
- PRIOR TO CONSTRUCTION FIELD COORDINATE HEIGHT AND ROUTE OF ICE BRIDGE WITH TOWER OWNER
  - ALL SUPPORT POSTS MUST BE GROUNDED



SMW JOB #24-5408

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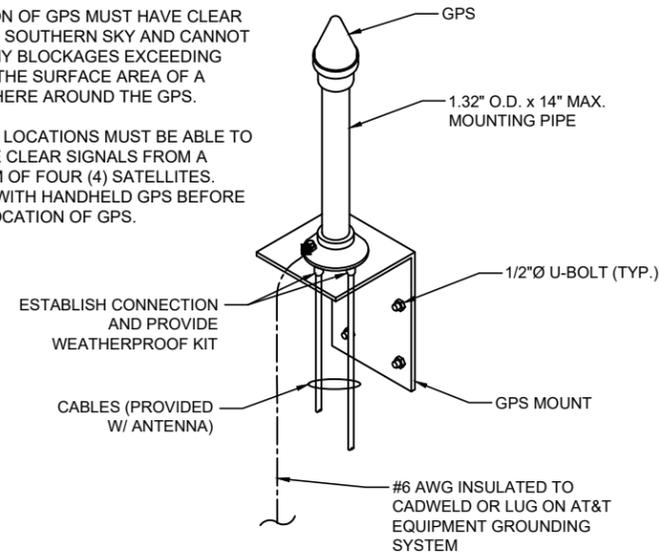
CONSTRUCTION DETAILS

SHEET NUMBER:

C-3.2

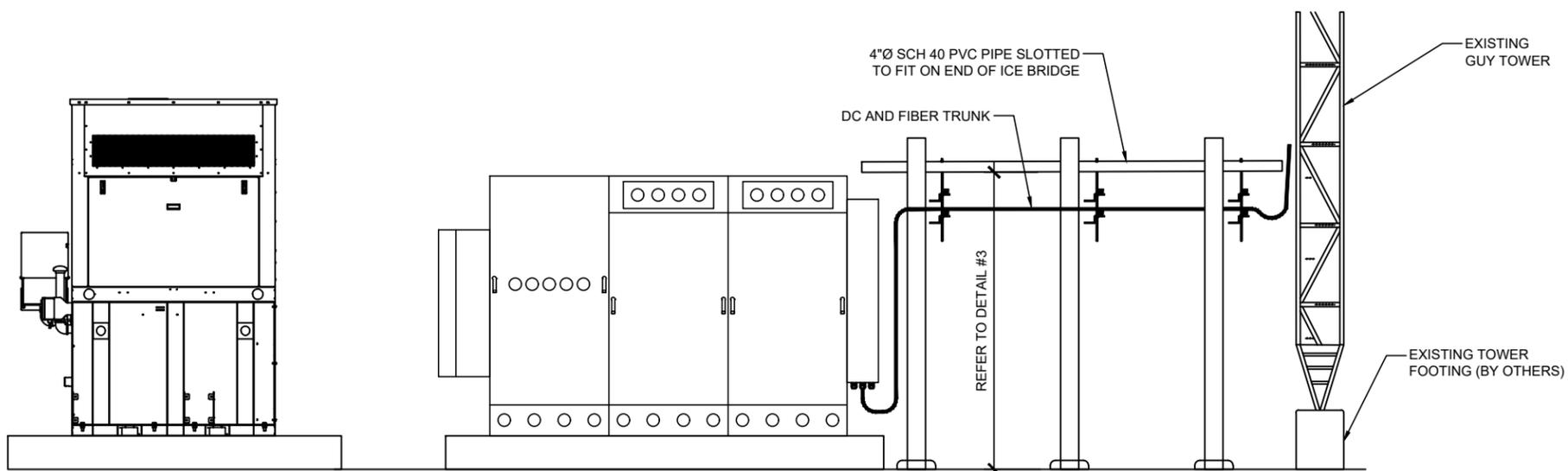
**NOTES:**

1. LOCATION OF GPS MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS.
2. ALL GPS LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS.

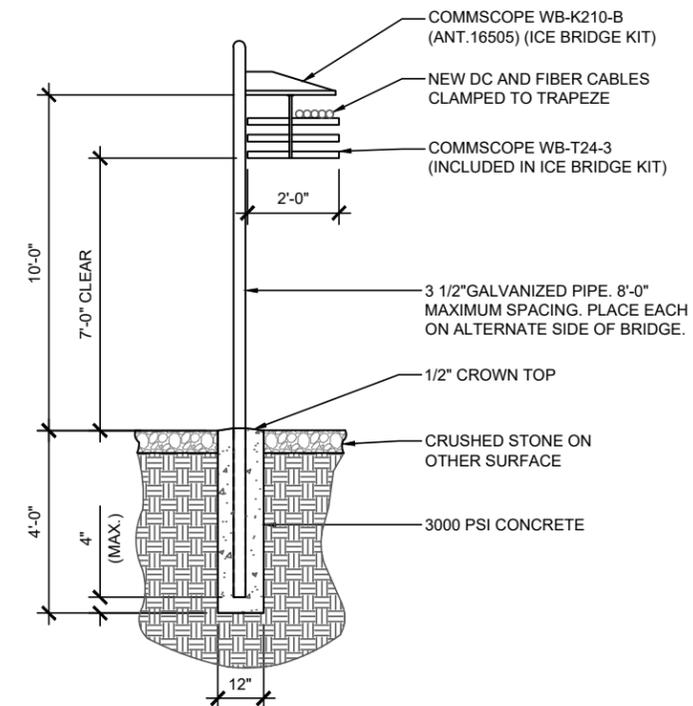


**1 GPS ANTENNA MOUNTING DETAIL**  
SCALE: NOT TO SCALE

**2 NOT USED**



**3 ICE BRIDGE DETAIL**  
SCALE: NOT TO SCALE



**4 SECTION A**  
SCALE: NOT TO SCALE



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 15743282  
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GROUND EQUIPMENT SPECIFICATIONS

SHEET NUMBER:

C-4

SMW JOB #24-5408

FIGURE 2.3 ENCLOSURE DIMENSIONS (F2020030) (3-BAY)

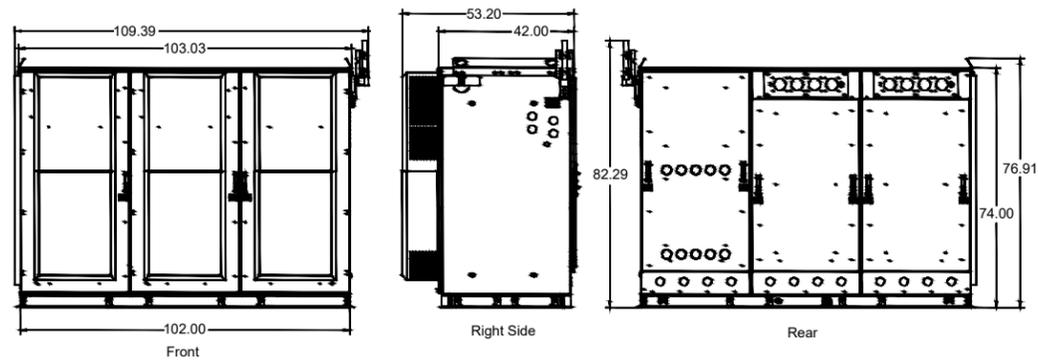
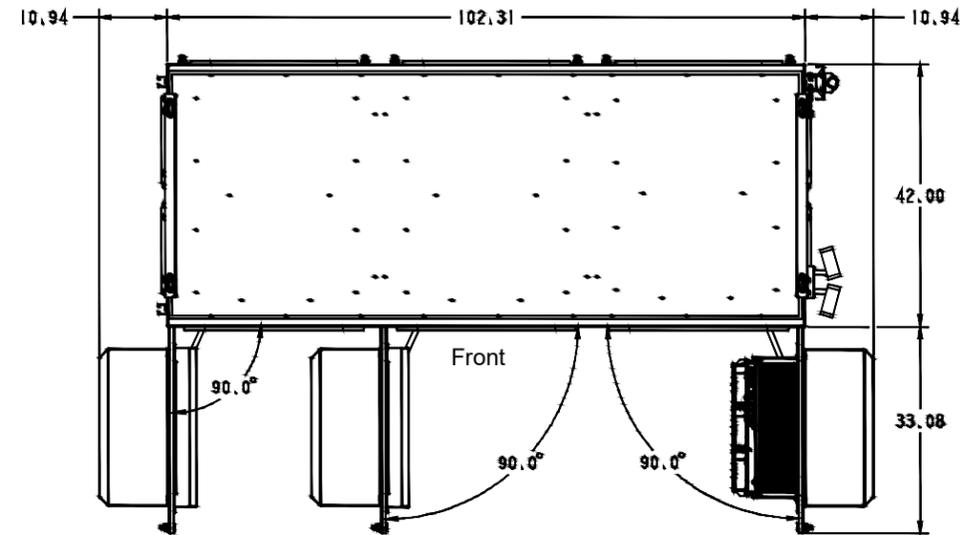
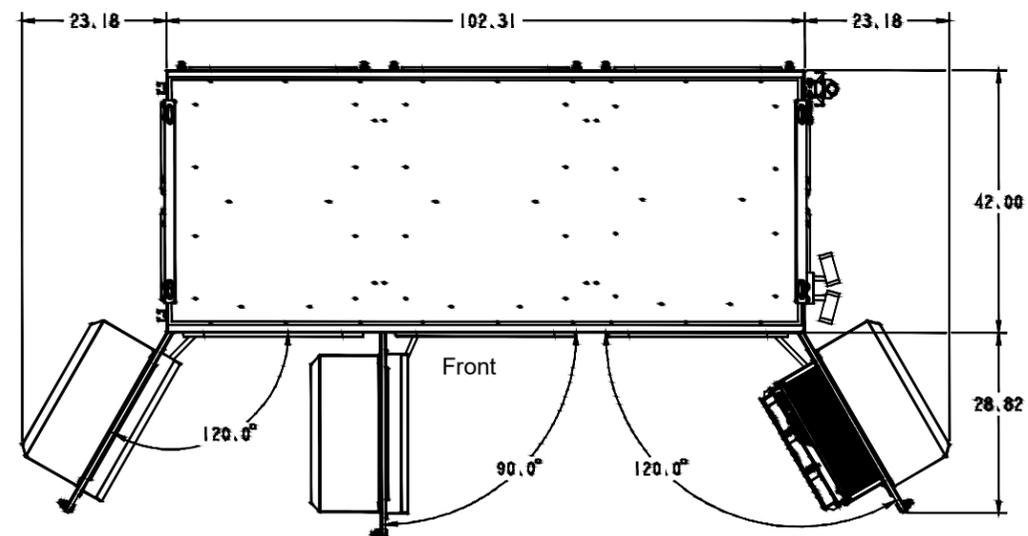


FIGURE 2.5 OVERHEAD VIEW WITH DOOR OPEN (F2020030) (3-BAY)



Notes:  
 1. All dimensions are in inches.



WUC SPECIFICATIONS				
VERTIV MODEL	WIDTH	LENGTH	HEIGHT	WEIGHT (LBS)
NETSURE X701 WUC (3-BAY)	102"	54"	74"	1650

DETAILS BY OTHERS NOTE:  
 DETAILS SHOWN ON THIS PAGE WERE PROVIDED BY OTHERS AND ARE NOT CARRIED UNDER THE SIGNATURE AND SEAL OF SMW AND/OR IT'S ENGINEERS.



### Vertiv™ NetSure™ X701 Walk Up Cabinet (WUC)

#### Description

The Vertiv™ NetSure™ X701 provides room for power, batteries, and other sensitive equipment in a single convenient outdoor enclosure. Its aluminum construction provides protection from both vandalism and harsh environmental conditions while still standing up to high winds and seismic events. With up to 15kW of heat dissipation available, the NetSure™ X701 outdoor enclosure is designed to handle ever-increasing heat load requirements at your base station and network edge sites.

- UL 2416 Certified
- Factory-integrated Vertiv™ NetSure™ 512 DC power system supports -48V and -58V DC load requirements
- Battery trays for (3) strings of VRLA batteries up to 210Ah each
- Up to 74RU of available equipment space
- Convenient cable entry and management throughout the enclosure



#### Technical Specifications

##### Enclosure

Two-Bay	Dimensions (H x W x D)	86" x 68" x 54"
	Weight	1300 lbs.
	Equipment Space	43 RU available
	Color	Cool White
	Cabinet Access	Front door and rear panels
Three-Bay	Security	All handles can accommodate padlock
	Dimensions (H x W x D)	74" x 102" x 54"
	Weight	1650 lbs.
	Equipment Space	76 RU available
	Color	Cool White
Three-Bay	Cabinet Access	Front door and rear panels
	Security	All handles can accommodate padlock

##### Mounting

Mounting Options	Pad; Platform
Racks	Adjustable 19" to 23" racks in each equipment chamber

##### Electrical

Input/Output Voltage	208/240VAC single-phase input; -48VDC primary/-58VDC secondary output
Maximum Input Current	N/A (Generally used w/ customer-provided service entrance transfer switch, generally 200A)

##### Environmental

Operating Temperature	-40°C to 46°C
Relative Humidity	0% to 95% non-condensing

##### Thermal Solutions

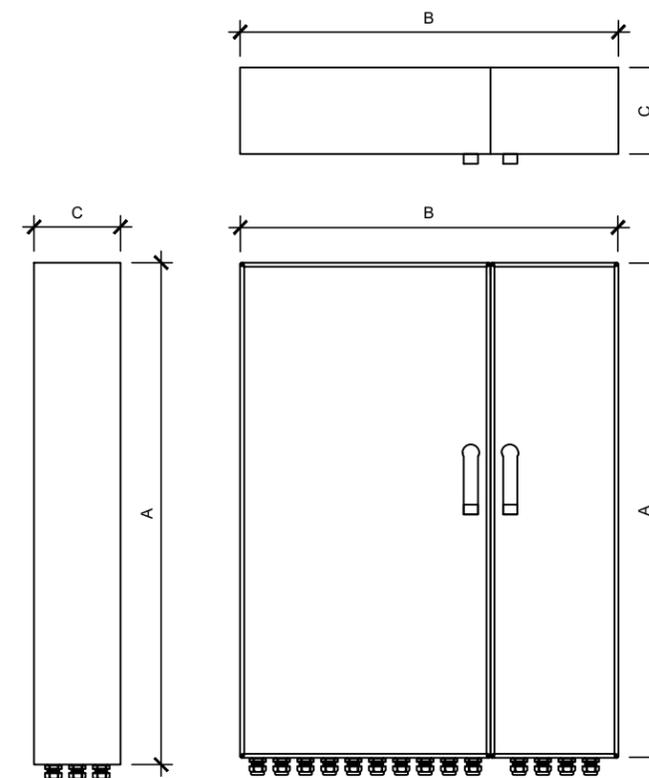
Heat Exchanger	6000 watts in each equipment chamber, 2800 watts in power chamber
----------------	---

##### Equipment Chamber

DC Power	Factory-integrated NetSure 512 system
AC Outlet	GFI
Grounding	Ground bar in each chamber

##### Standards Compliance

Safety	UL 2416
Environment	Designed for Telcordia GR-487



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC50-48-60-96-50F	52.24"	40.0"	9.0"	165.0

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LAKE CITY, FL 32055

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GROUND EQUIPMENT SPECIFICATIONS

SHEET NUMBER:

C-4.0.1

SMW JOB #24-5408



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GENERATOR SPECIFICATIONS

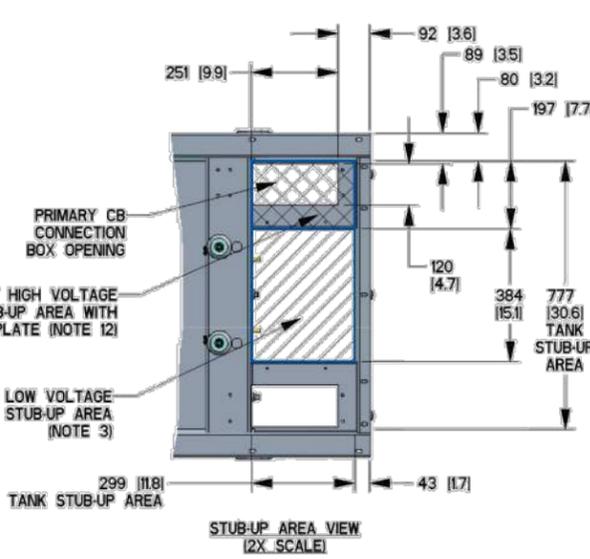
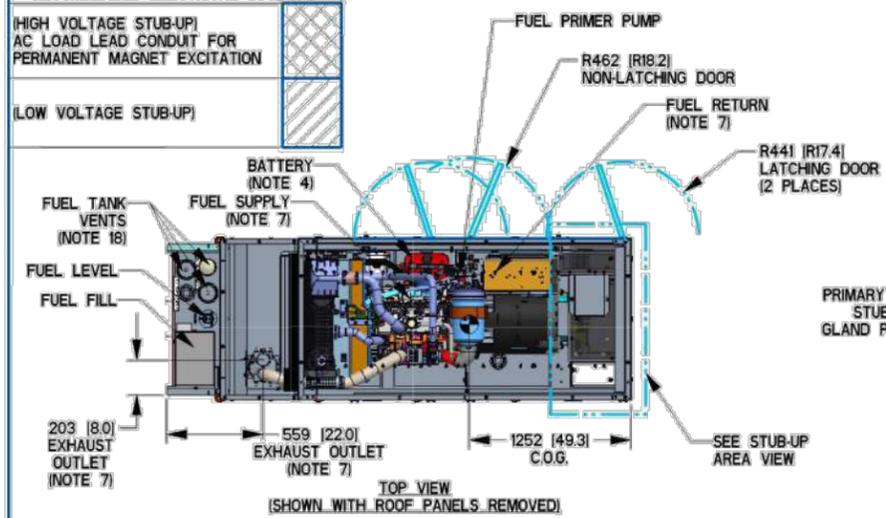
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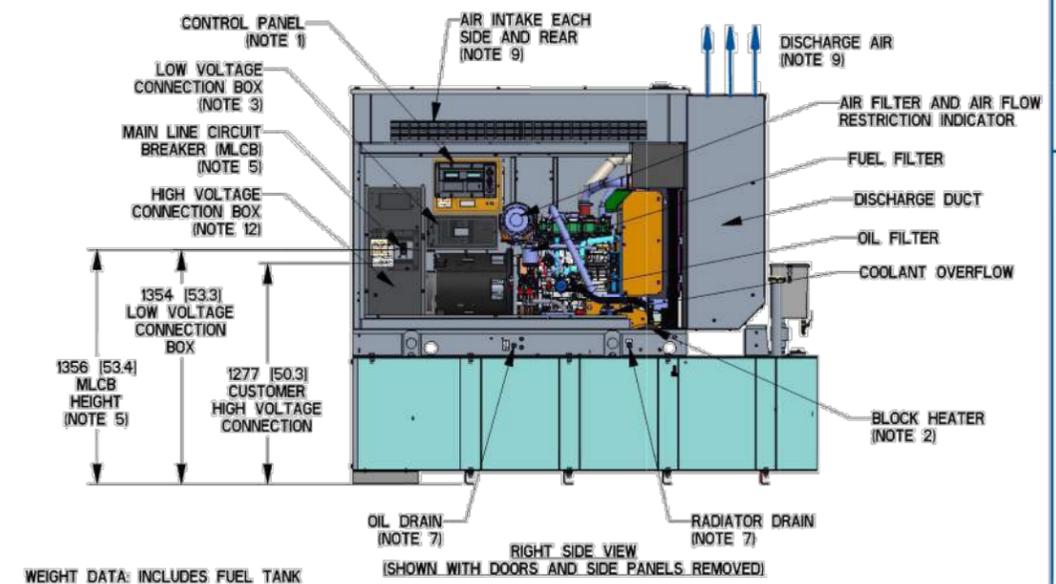
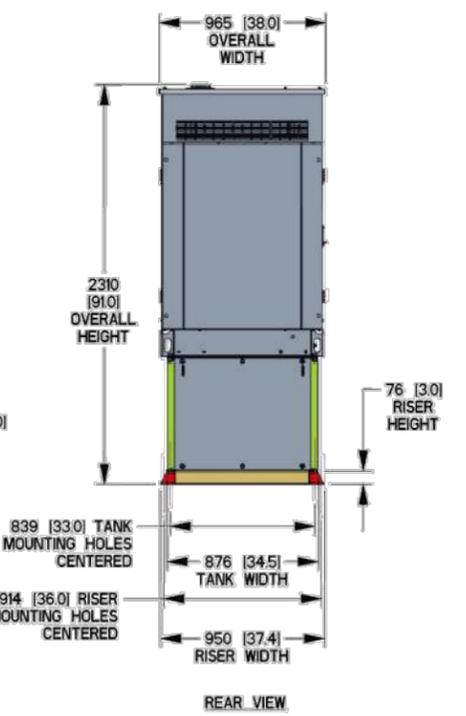
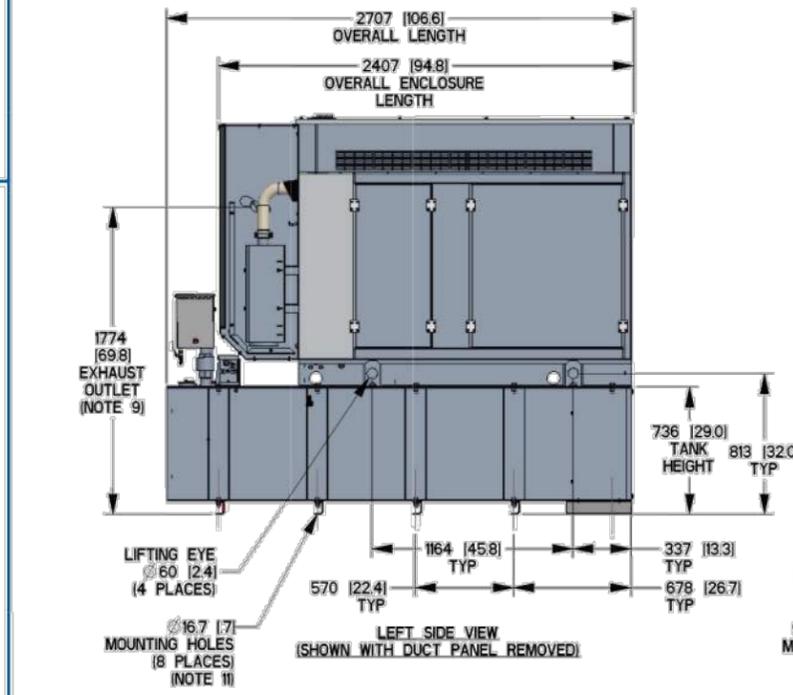
SMW JOB #24-5408

SH 1/1 REV B WINDCHILL VERSION B.4

**RECOMMENDED ELECTRICAL STUB-UPS**  
HIGH VOLTAGE STUB-UP  
AC LOAD LEAD CONDUIT FOR PERMANENT MAGNET EXCITATION  
LOW VOLTAGE STUB-UP



- NOTES:**
- CONTROL PANEL (10A BATTERY CHARGER INSIDE)
  - 120V, 20A GFCI & 250V, 15A OUTLET
  - CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB-UP AREA)
  - BATTERY (12 VOLT NEGATIVE GROUND SYSTEM)
  - MAIN LINE CIRCUIT BREAKER (MLCB) (MLCB HEIGHT MAY VARY WITH CB SELECTION). AC LOAD LEADS CONNECT DIRECTLY TO BOTTOM OF BREAKER.
  - CENTER OF GRAVITY AND WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS
  - ENGINE SERVICE CONNECTIONS:  
FUEL SUPPLY : 3/8" NPT  
FUEL RETURN : 3/8" NPT  
OIL DRAIN : 1/2" NPT  
RADIATOR DRAIN : 1/2" NPT  
EXHAUST OUTLET : 2.5" I.D.
  - STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
  - GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND DISCHARGE AIR IS NOT RECIRCULATED. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
  - BOTTOM OF GENERATOR SET MUST BE CLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
  - BOLTS OR STUDS USED TO MOUNT UNIT TO PAD SHALL BE 5/8-11 GRADE 5. USE STANDARD SAE TORQUE SPECS.
  - HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTIONS TO MLCB, NEUTRAL CONNECTION AND AUXILIARY 120/240V CONNECTION.
  - 190 GALLON USEABLE CAPACITY BASETANK STANDARD WITH GENERATOR
  - 1500W 120 VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
  - FUEL LINES ARE PLUMBED DIRECTLY TO BASE TANK
  - DOORS MUST BE ABLE TO OPEN AT LEAST 90° TO BE REMOVED.
  - GENERATOR MUST BE GROUNDED
  - 12 FOOT VENT IS OPTIONAL



**WEIGHT DATA: INCLUDES FUEL TANK**  
GENERATOR: 1358 [2995]  
GENERATOR WITH SHIPPING SKID: 1424 [3139]

**ENCLOSURES:**  
STEEL L2A: 231 [509]  
ALUMINUM L2A: 77 [170]

**WEIGHT: KG [LBS]**  
**DIMENSIONS: MM [INCHES]**

**GENERAC**

TITLE  
**INSTALL D2.2L G22  
30KW SSS L2A Y01 EXT**

ISSUE DATE: 12/18/17

SIZE B	CAGE NO N/A	DWG NO 1000019290	REV B
--------	-------------	-------------------	-------

SCALE 0.030 WT-KG SEE ABOVE SHEET 1 of 1

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

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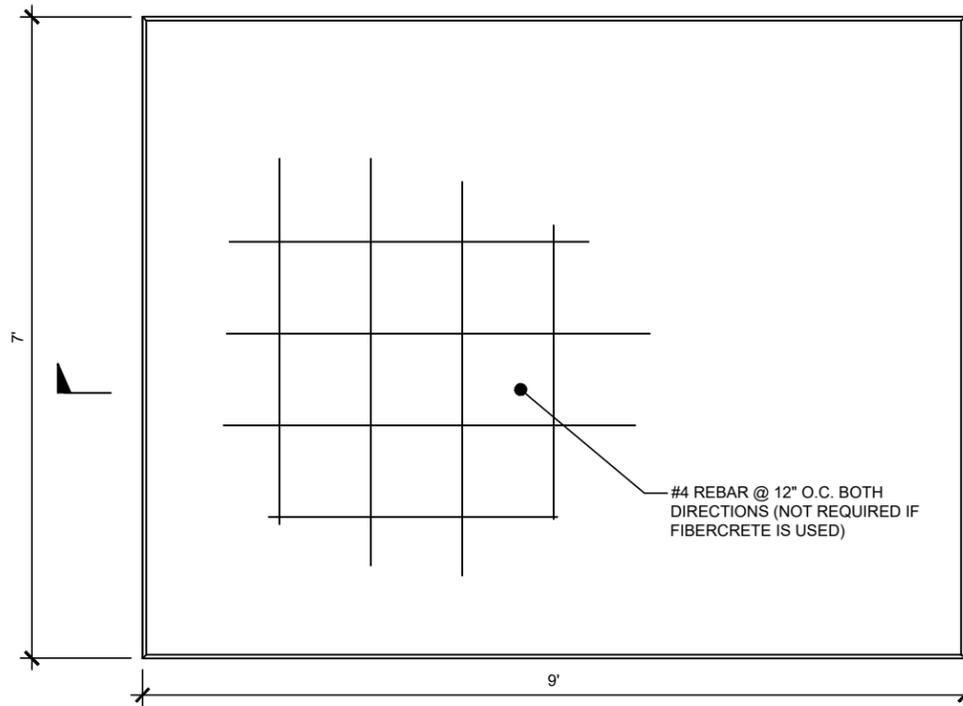
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FOUNDATION DETAILS

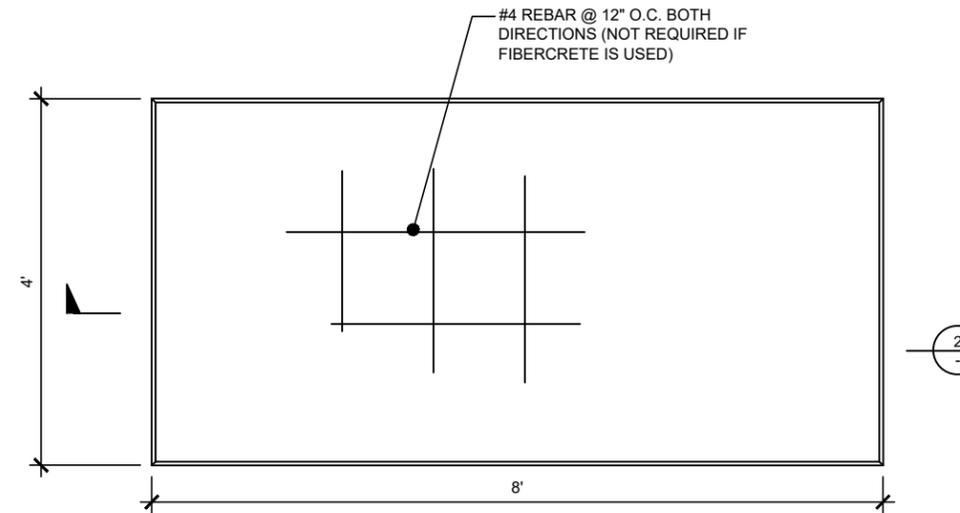
SHEET NUMBER:

C-4.2



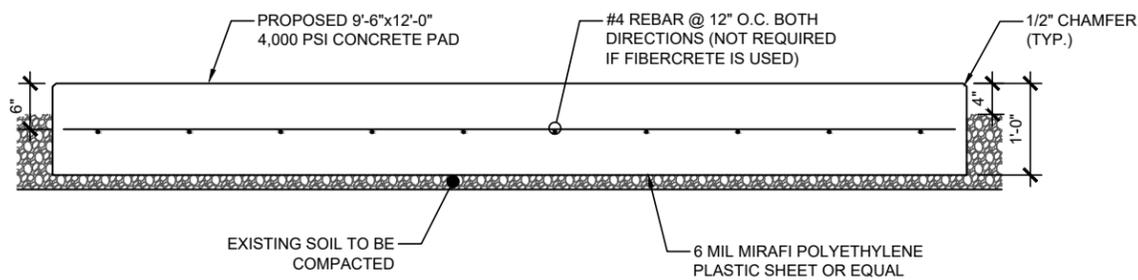
**1** EQUIPMENT FOUNDATION PLAN  
SCALE: NOT TO SCALE

NOTE:  
1. CONTRACTOR TO VERIFY WUC SPECIFICATIONS/LOADING WITH MANUFACTURER PRIOR TO CONSTRUCTION.



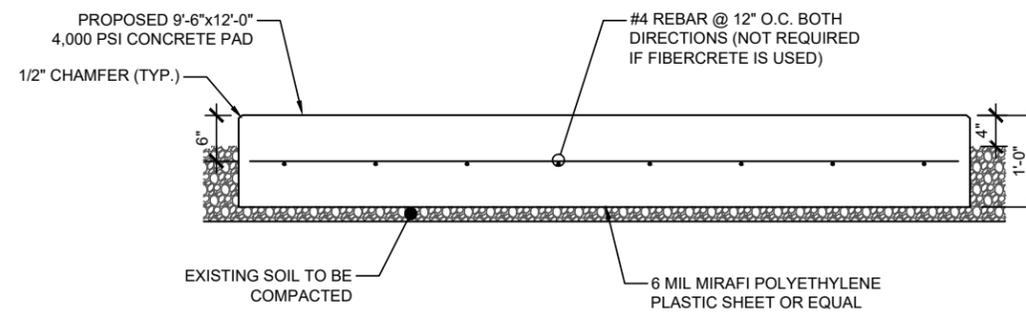
**2** GENERATOR FOUNDATION PLAN  
SCALE: NOT TO SCALE

NOTE:  
1. CONTRACTOR TO VERIFY GENERATOR SPECIFICATIONS/LOADING WITH MANUFACTURER PRIOR TO CONSTRUCTION.



NOTE:  
1. CHOICE OF FIBERCRETE OR CONCRETE PAD TO BE MADE IN THE FIELD BY AT&T CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

**3** EQUIPMENT FOUNDATION SECTION  
SCALE: NOT TO SCALE



NOTE:  
1. CHOICE OF FIBERCRETE OR CONCRETE PAD TO BE MADE IN THE FIELD BY AT&T CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

**4** GENERATOR FOUNDATION SECTION  
SCALE: NOT TO SCALE



SMW JOB #24-5408

AT&T FA  
15743282  
SITE NAME  
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CROWN CASTLE SITE NUMBER  
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SITE ADDRESS  
4604 SOUTHWEST STATE ROAD 47  
LAKE CITY, FL 32055

ISSUED FOR:

REV	DESCRIPTION	BY	DATE
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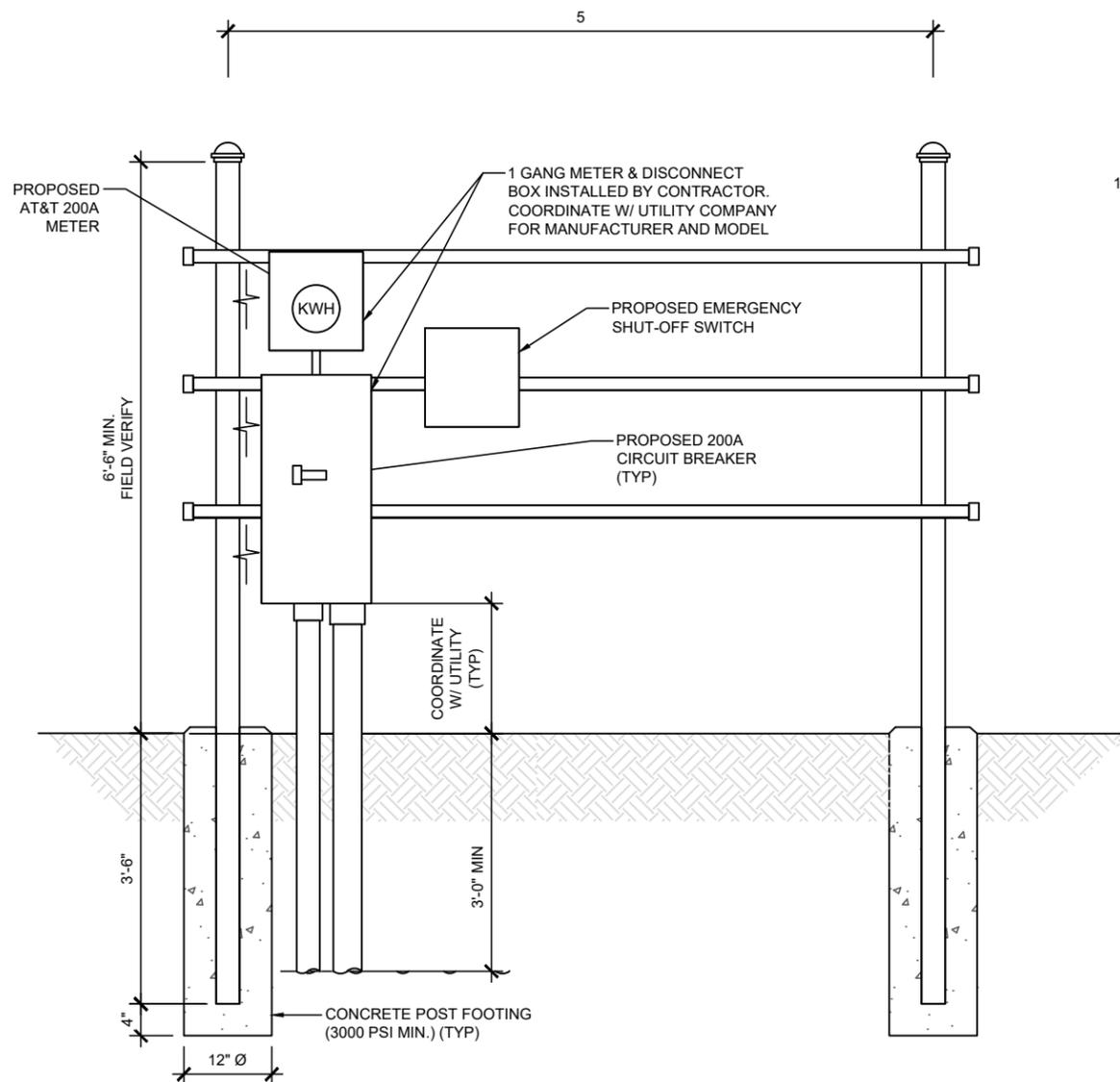
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H-FRAME DETAILS

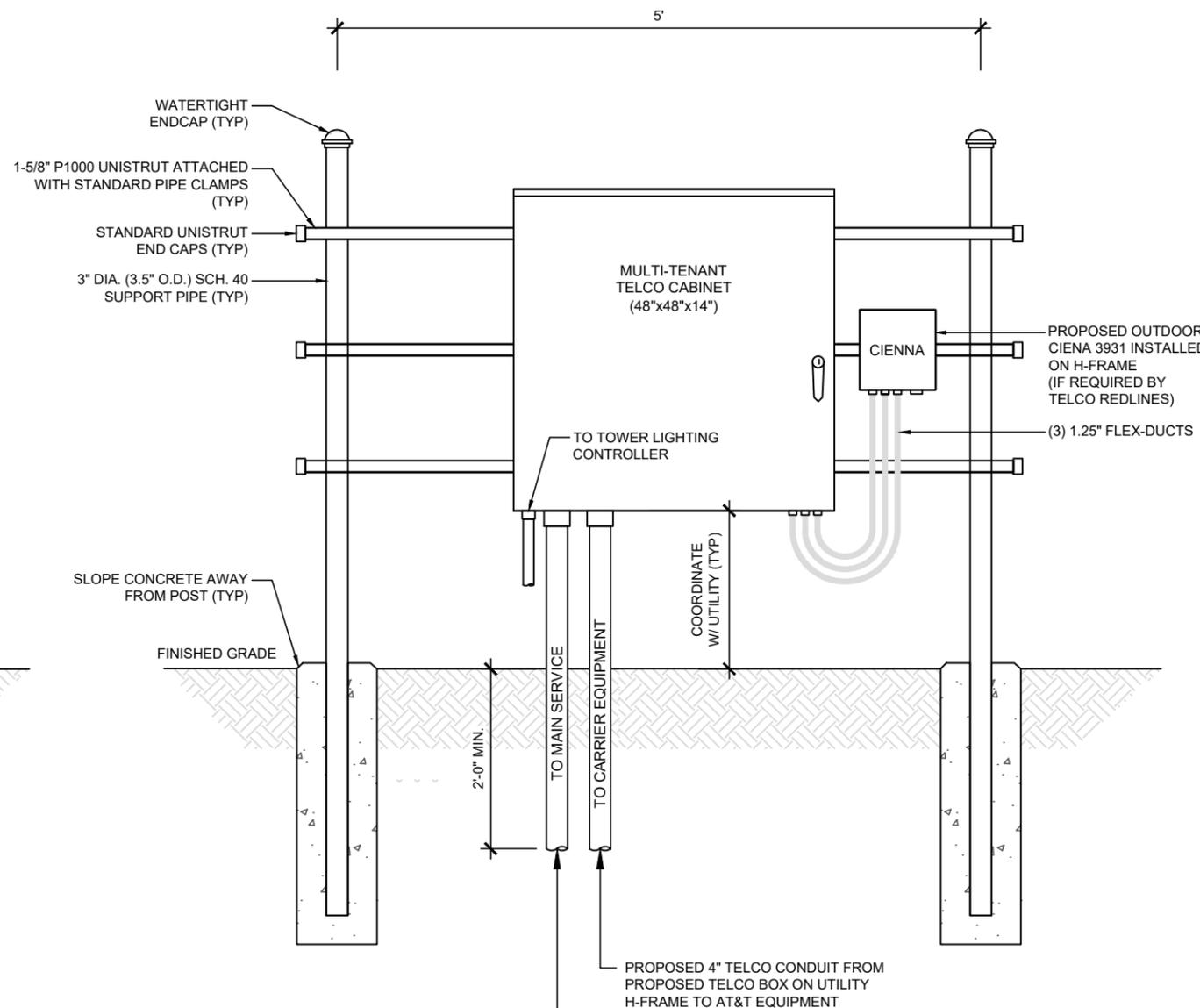
SHEET NUMBER:

C-4.3



NOTES:

- CONTRACTOR SHALL FIELD LOCATE THE METER PEDESTAL AS SHOWN ON SITE PLAN. INSTALL THE METER PEDESTAL NEAR THE PERIMETER OF THE FENCED COMPOUND WITH THE METERS FACING AS SHOWN.
- THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE CONDUIT RUN TO THE MAIN SERVICE CONNECTION OR TRANSFORMER.
- THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR GROUND ROD REQUIREMENTS. IF REQUIRED, THE CONTRACTOR SHALL ORDER AND PAY FOR NECESSARY GROUND TESTS.
- SUPPORT POST AND UNISTRUT SHALL BE GALVANIZED. PIPE CLAMPS AND HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
- TELCO CABINET SHALL BE 48"x48"x12" HOFFMAN OR EQUIVALENT. PROVIDE 3/4" PLYWOOD BACKBOARD INSIDE THE MULTI-TENANT TELCO CABINET.
- ADJUSTMENTS TO THE METER PEDESTAL DESIGN MAY BE REQUIRED DEPENDING ON THE EXACT METER PANEL INSTALLED. CONTRACTOR SHALL FIELD COORDINATE ADJUSTMENTS AND INFORM THE ENGINEER IF ANY UNUSUAL CONDITIONS ARE FOUND TO EXIST.



PROPOSED (1) 4" CONDUIT W/ (2) 1 1/4" INNERDUCTS AND PULL STRING FROM HANDHOLE TO TELCO BOX ON H-FRAME (VERIFY EXACT LOCATIONS W/AT&T CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION).

**ELECTRICAL INSTALLATION NOTES**

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR CAPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
18. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
19. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
21. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS
24. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
28. THE SUBCONTRACTOR SHALL LABEL THE METER BASE PER LOCAL UTILITY REQUIREMENTS.



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ELECTRICAL NOTES

SHEET NUMBER:  
**E-1**

SMW JOB #24-5408

PROPOSED 120/240V, 200A.  
AT&T UTILITY METER TO  
BE INSTALLED UTILITY COMPANY

PROPOSED 120/240V,  
200A. BREAKER

2P-200

3#3/O, 1#4G - 2" C

200A, 1Ø, 240V NEMA 3R FUSIBLE DISCONNECT  
W/200A, 22K AIC FUSES

#4G, 3/4" C

200A, INTEGRATED  
LOAD CENTER

AUTOMATIC  
TRANSFER  
SWITCH (ATS)  
(SEE NOTE 5)

200A, 1Ø, 42-POSITIONS  
PANEL (SEE NOTE 5)

DC POWER PLANT

-48V BUS

PRIMARY LOAD CENTER

(3) #3/O, 1#4G - 2" C FOR  
POWER

AT&T COMPACT GENERATOR  
INTERFACE PANEL (SEE NOTE 1)

SEE NOTES 3 AND 4

GEN

2P-100A

NOTE:  
GENERATOR COMES PRE WIRED FROM FACTORY.  
REFER TO OWNERS MANUAL FOR SPECIFICATIONS

PROPOSED (3) #14 IN 1"Ø CONDUIT FOR ALARM  
WIRING, ANNUNCIATOR DC POWER WIRING,  
E-STOP WIRING & REMOTE START/UTILITY FAIL

PROPOSED (6) #10 IN 1"Ø CONDUIT FOR  
BATTERY CHARGER AND BLOCK HEATER

66-BLOCK (ALARM BLOCK)

PROPOSED 1"Ø CONDUIT FOR  
EMERGENCY SHUT-OFF SWITCH

PROPOSED EMERGENCY  
SHUT-OFF SWITCH

**NOTES:**

1. PROVIDE ARC FLASH WARNING LABELS ON ALL PANELS PER NEC 110.16 AND IN ACCORDANCE WITH SHEET E1.
2. PROVIDE EQUIPMENT IDENTIFICATION LABELS PER NEC 225.37 AND IN ACCORDANCE WITH SHEET E1.
3. CB-N AND CB-E1 ARE 2P-200A MAIN BREAKERS.
4. CB-E1 IS MECHANICALLY INTERLOCKED.
5. POWER TRANSFER LOAD CENTER (PTLC) INCLUDES A CAM-LOC GENERATOR CONNECTION PANEL, AN ATS, A MECHANICALLY INTERLOCKED TRANSFER SWITCH, A 200A 42-POS PANEL AND SURGE SUPPRESSION.
6. ALL ITEMS IN NOTE 5 ARE PRE-WIRED BY MANUFACTURER.



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ELECTRICAL SPECS,  
DETAILS & METER CENTER

SHEET NUMBER:  
**E-1.1**

SMW JOB #24-5408



SMW JOB #24-5408

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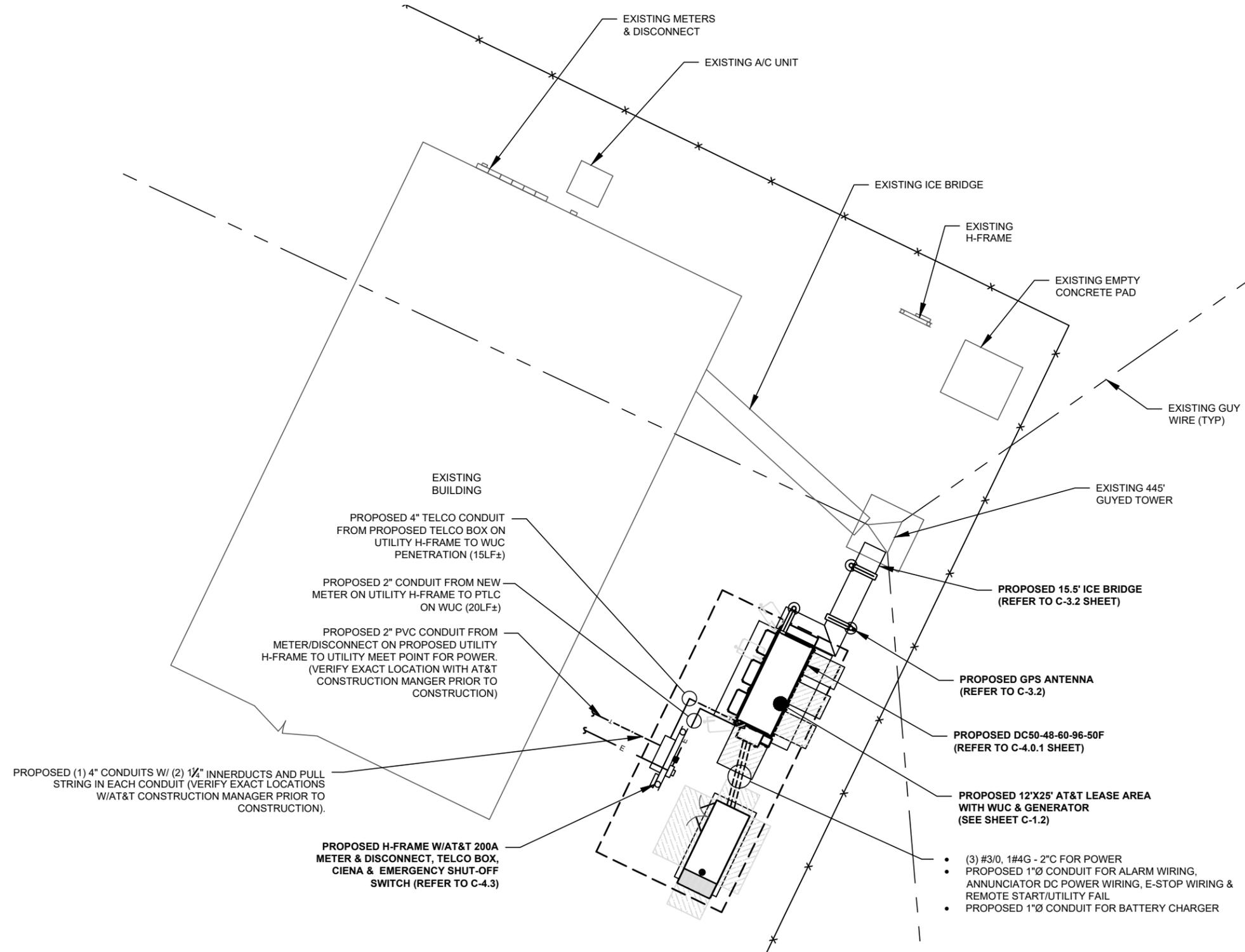
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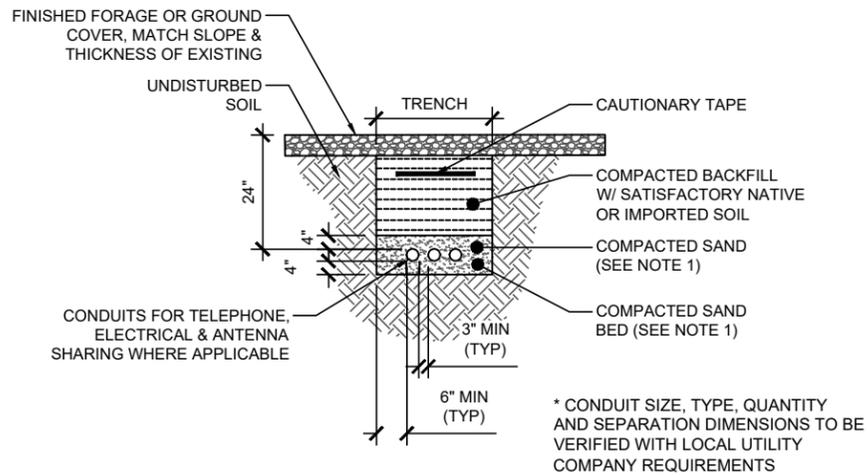
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UTILITY SITE PLAN

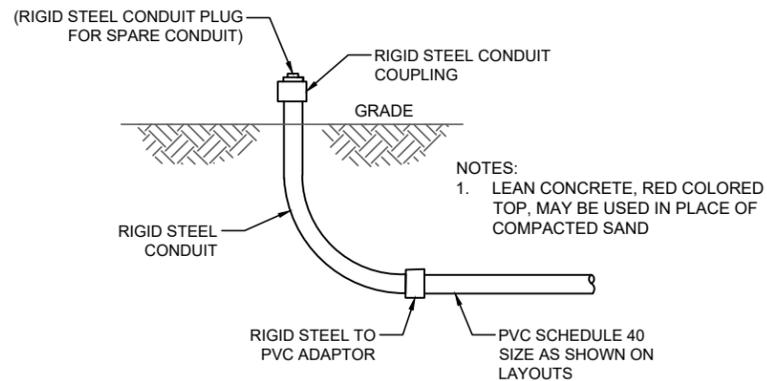
SHEET NUMBER:

E-2





1 DIRECT BURIED CONDUIT  
SCALE: NOT TO SCALE



2 UNDERGROUND CONDUIT STUB-UP  
SCALE: NOT TO SCALE

- 24W X 36L X 24 D POLYMER CONCRETE WITH TIER 15/22 RATED LIDS AND LABEL AS "TELECOMMUNICATIONS"
- THE BOTTOM OF THE HAND HOLE SHOULD BE LINED WITH 2 INCHES OF CLEAN # 57 GRAVEL
- THE CONDUIT SHOULD ENTER AT A 45-DEGREE ANGLE AND BE 3 INCHES FROM THE TOP OF THE GRAVEL, PROVIDING AT LEAST 18 INCHES OF CLEARANCE TO THE BOTTOM OF THE LID.
- SITES BUILT FOR AT&T OR OTHER CARRIERS (1) HH SHOULD BE STENCILED TILLMAN WITH 3-INCH LETTERS AND THE OTHER STENCILED "FUTURE WITH 3-INCH LETTERS.

3 HAND HOLE STANDARDS



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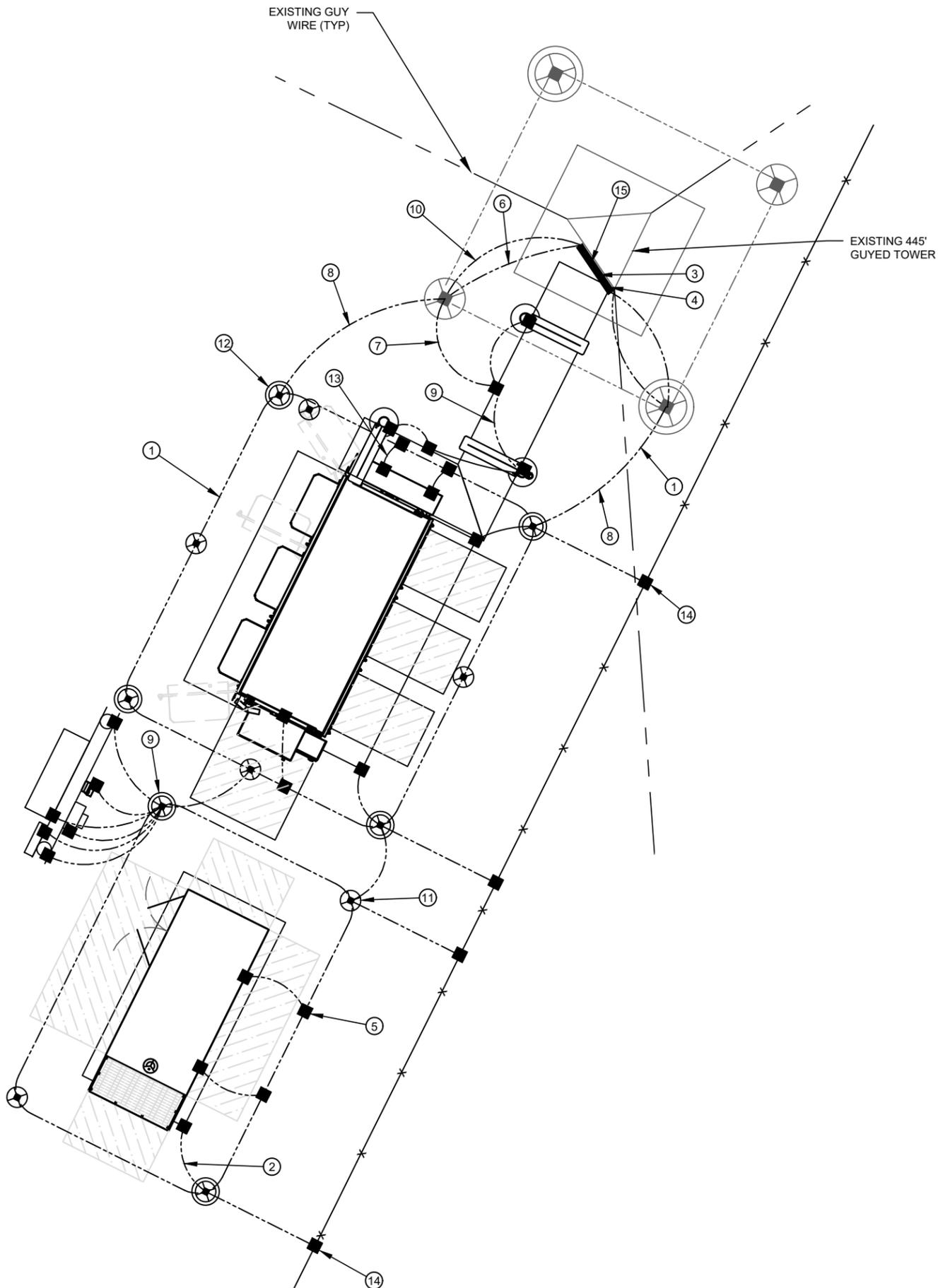
SHEET NUMBER:

E-3

**GROUNDING KEY NOTES:**

1. PROVIDE A #2 AWG SOLID BARE TINNED COPPER GROUND RING AROUND THE EQUIPMENT AS SHOWN. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 30" BELOW GRADE. THE GROUND RING SHALL BE INSTALLED 1'-0" AWAY FROM FOUNDATIONS (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). ALL BONDS TO THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
2. BOND REBAR IN CONCRETE PAD TO THE BURIED GROUND RING. EXOTHERMICALLY WELD #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO THE REBAR (AT THE END OF THE REBAR) AND CONNECT TO THE BURIED GROUND RING.
3. MASTER GROUND BAR.
4. TOWER MOUNTED GROUND BAR.
5. BOND GENERATOR CASE TO GROUND RING W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
6. BOND INSULATED/SOLID COAX GROUND KIT TO TOWER GROUND RING W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
7. BOND TO ANY METAL WITHIN 10' OF PROPOSED GROUND RING W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
8. BOND EQUIPMENT GROUND RING TO TOWER GROUND RING. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 30" BELOW GRADE. THE GROUND RING SHALL BE INSTALLED 1'-0" AWAY FROM FOUNDATIONS (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). ALL BONDS TO THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
9. BOND ICE BRIDGE AND H-FRAME POSTS TO BURIED GROUND RING. EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO EACH POST AT 12" ABOVE GRADE AND CONNECT TO THE BURIED GROUND RING. PROVIDE CONDUCTOR LENGTH AS REQUIRED TO MAKE CONNECTION.
10. INSTALL GROUNDING CONDUCTOR(S) FROM THE BURIED GROUND RING FOR CONNECTION TO THE GROUND BAR AT BOTTOM OF TOWER. VERIFY EXACT LOCATION OF GROUNDING BAR AND PROPER CONDUCTOR LENGTH. EXOTHERMICALLY WELD (2) #2 AWG SOLID BARE TINNED COPPER GROUNDING CONDUCTOR (LENGTH AS REQUIRED) TO THE GROUND BAR. GROUNDING CONDUCTORS MUST BE HELD AWAY FROM TOWER BY USING STANDOFFS OR ROUTING THE CONDUCTORS IN FLEXIBLE PVC CONDUIT.
11. INSTALL 5/8" x 10' LONG COPPER CLAD STEEL GROUND RODS. SPACING BETWEEN RODS MINIMUM OF 10' AND NO MORE THAN 16' (NONLINEAR). TYPICAL FOR ALL GROUND RODS SHOWN, UNLESS NOTED OTHERWISE. SEE GROUND ROD INSPECTION WELL DETAIL, SHEET G-2.1. IF ROCK IS ENCOUNTERED, GROUND ROD MAY BE INSTALLED WITH A MAXIMUM VARIATION OF 30° FROM VERTICAL AND CONTRACTOR SHALL BE PREPARED TO CORE DRILL TO INSTALL GROUND RODS AND BACKFILL WITH GROUND ENHANCEMENT MATERIAL.
12. PROVIDE 8" DIAMETER PVC INSPECTION SLEEVE WITH REMOVABLE COVER IN LOCATION SHOWN. SEE GROUND ROD INSPECTION WELL DETAIL, SHEET G-2.1, FOR TYPICAL GROUND RING INSPECTION SLEEVE. NOTE: INSPECTION SLEEVE CAN BE USED AS A TEST WELL FOR GROUND WATER LEVEL INSPECTION AND GROUND RESISTANCE TESTING.
13. BOND GROUND RING TO EQUIPMENT CASES W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
14. BOND GROUND RING TO FENCE POST, EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR INSTALLED IN A (3/4" DIA) X (18" LONG) LIQUID TIGHT CONDUIT RUNNING AT LEAST 6" ABOVE AND BELOW GRADE AND CAULKED WITH SILICONE BASED SEALANT.
15. RAD CENTER GROUND BAR TO BE MOUNTED TO TOWER WITHOUT INSULATORS.

KEY	
BOND	■
GROUND ROD	⊗
INSPECTION WELL	⊗
GROUNDING CONDUCTOR	----



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GROUNDING SITE PLAN

SHEET NUMBER:

G-1



**GROUNDING NOTES:**

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTI-OXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.), PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A AT&T REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN LIQUID TIGHT CONDUIT 6-8" ABOVE GRADE/GRAVEL AND RUN TO AT LEAST 6-8" BELOW GRADE WITH A TOTAL LENGTH OF 14-18".
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

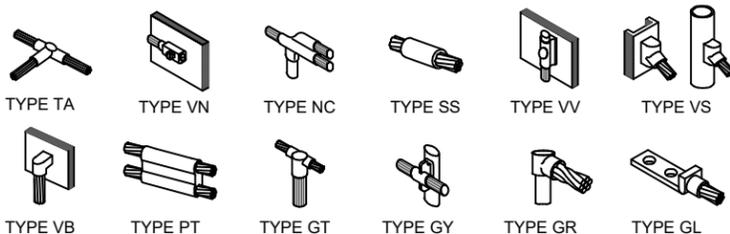
**CABLE COLOR CODING NOTES:**

- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
- THE ANTENNA SYSTEM CABLES SHALL BE LABELED WITH VINYL TAPE EXCEPT IN LOCATIONS WHERE ENVIRONMENTAL CONDITIONS CAUSE PHYSICAL DAMAGE, THEN PHYSICAL TAGS ARE PREFERRED.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES - RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE & VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR SUBCONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLES BY SECTOR AND NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
- WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN GSM/3G AND IS-136 TDMA IS ENCOUNTERED, THE SUBCONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING AND TAGGING STANDARD THAT IS OUTLINED IN THE CURRENT VERSION OF ND-00027. IN THE ABSENCE OF AN EXISTING COLOR CODING TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
- ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE A MINIMUM OF (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- ALL COLOR BANDS INSTALLED AT THE TOP OF TOWER SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE IN BETWEEN EACH COLOR.
- ALL COLOR CODES SHALL BE INSTALLED AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE TO SIDE.
- IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE GSM TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

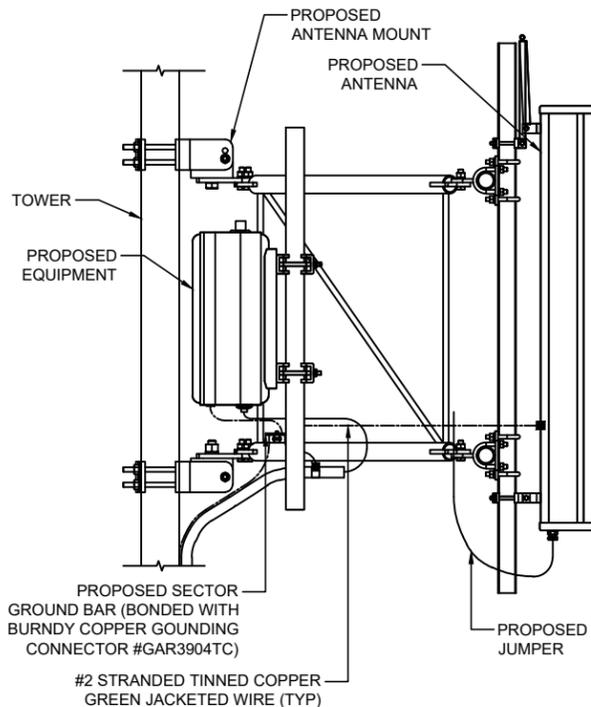
**CABLE MARKING TAGS:**

WHEN USING THE ALTERNATIVE LABELING METHOD, EACH RF CABLE SHALL BE IDENTIFIED WITH A METAL ID TAG MADE OF STAINLESS STEEL OR BRASS. THE TAG SHALL BE 1-1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS INDICATION THE SECTOR, ANTENNA POSITION AND CABLE NUMBER. ID MARKING LOCATIONS SHOULD BE AS PER "CABLE MARKING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH CORROSION PROOF WIRE AROUND THE CABLE AT THE SAME LOCATION AS DEFINED ABOVE. THE TAG SHOULD BE LABELED AS SHOWN ON THE "GSM AND UMTS LINE TAG" DETAIL.

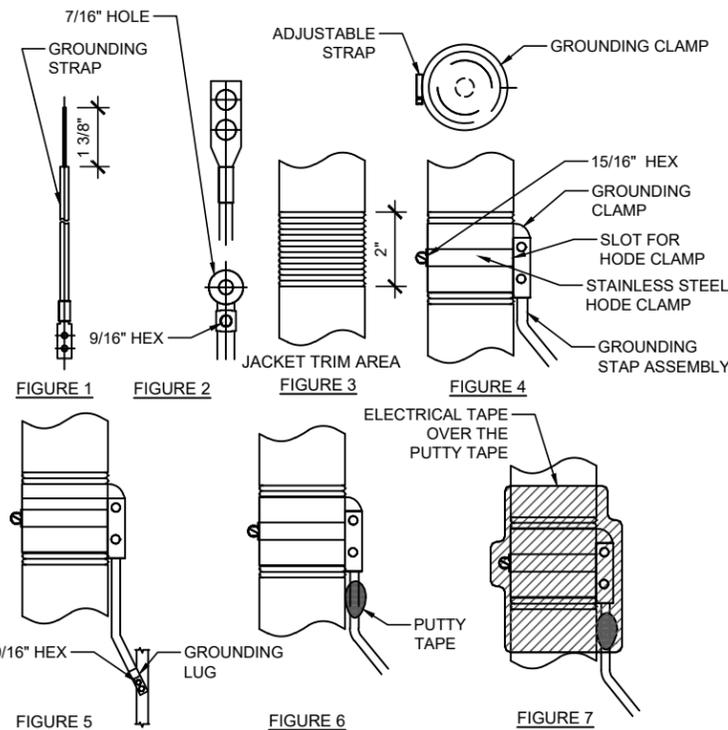
CABLE MARKING LOCATIONS TABLE	
NO.	LOCATIONS
1	EACH JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS AT THE TOP JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS PRIOR TO ENTERING THE BTS OR SHELTER.
3	CABLE ENTRY PORT ON THE INTERIOR OF SHELTER.
4	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
5	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.



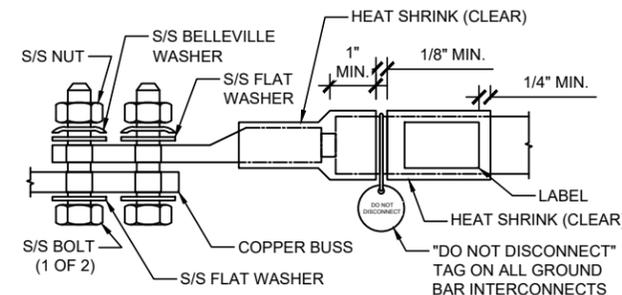
**1 CADWELD GROUNDING CONNECTION DETAILS**  
SCALE: NOT TO SCALE



**2 ANTENNA & CABLE GROUNDING**  
SCALE: NOT TO SCALE



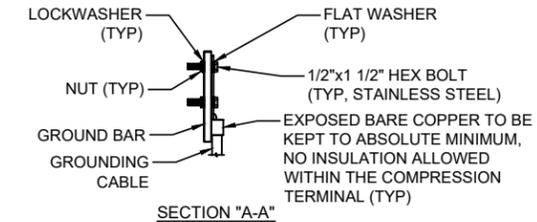
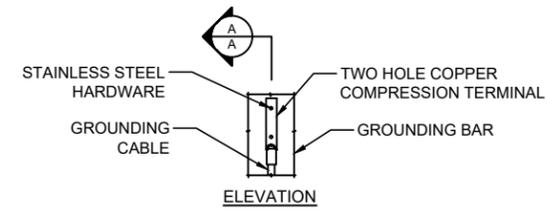
**4 GROUNDING STRAP WEATHERPROOFING DETAIL**  
SCALE: NOT TO SCALE



**NOTES:**

- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND.
- COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.

**3 GENERAL LUG DETAIL**  
SCALE: NOT TO SCALE



**NOTE:**

- "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
- OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

**5 TYP GROUND BAR CONNECTION DETAIL**  
SCALE: NOT TO SCALE



AT&T FA  
15743282  
SITE NAME  
CLAY HOLE CREEK  
CROWN CASTLE SITE NUMBER  
870209  
SITE ADDRESS  
4604 SOUTHWEST STATE ROAD 47  
LAKE CITY, FL 32055

ISSUED FOR:			
REV	DESCRIPTION	BY	DATE
A	CLIENT REVIEW	DAJ	04/08/25
B	PERMITTING	ZDS	05/27/25

CA# 33693

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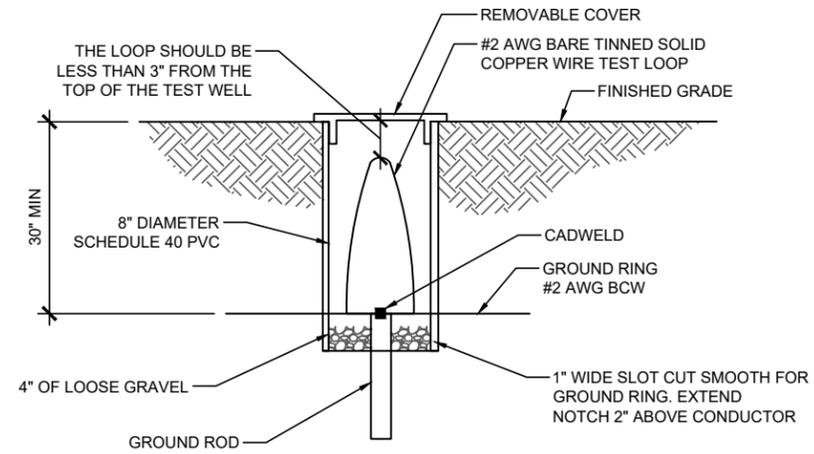
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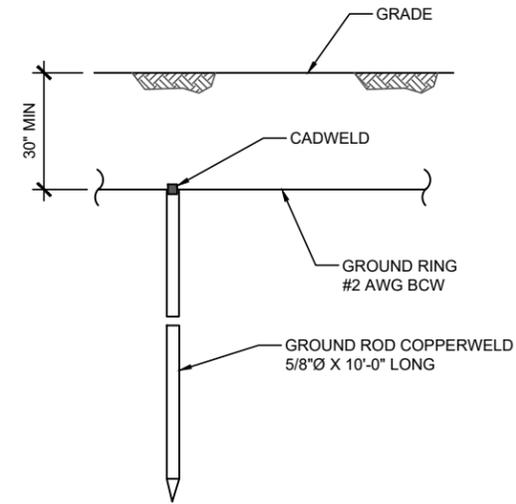
SHEET NUMBER:

G-2

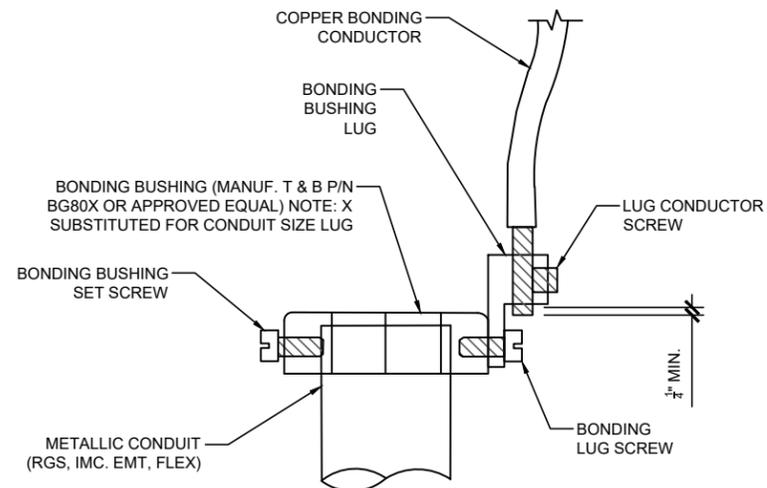
SMW JOB #24-5408



1 8" GROUND ROD INSPECTION WELL  
SCALE: NOT TO SCALE



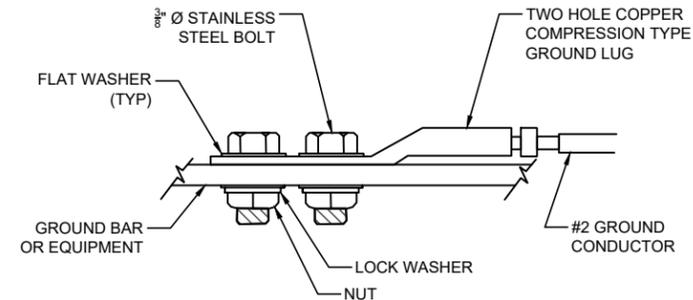
2 GROUND ROD DETAIL  
SCALE: NOT TO SCALE



- DIRECTIONS:
1. MOUNT BONDING BUSHING INTO CONDUIT
  2. TIGHTEN BOND BUSHING SET SCREW
  3. INSERT COPPER CONDUCTOR INTO LUG
  4. TIGHTEN LUG CONDUCTOR SCREW
  5. TIGHTEN BONDING LUG SCREW

NOTE: BONDING BUSHING, SET SCREW, LUG, LUG SCREW, CONDUCTORS, LUG SCREW SHOWN AS COMPLETE UNIT

3 CONDUIT BOND/GROUND BUSHING  
SCALE: NOT TO SCALE



4 MECHANICAL GROUND CONNECTION  
SCALE: NOT TO SCALE



SMW JOB #24-5408

AT&T FA  
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SHEET NUMBER:

G-2.1