

Merge onto US-90 E/W US Hwy 90 Turn right onto SW Commerce Dr

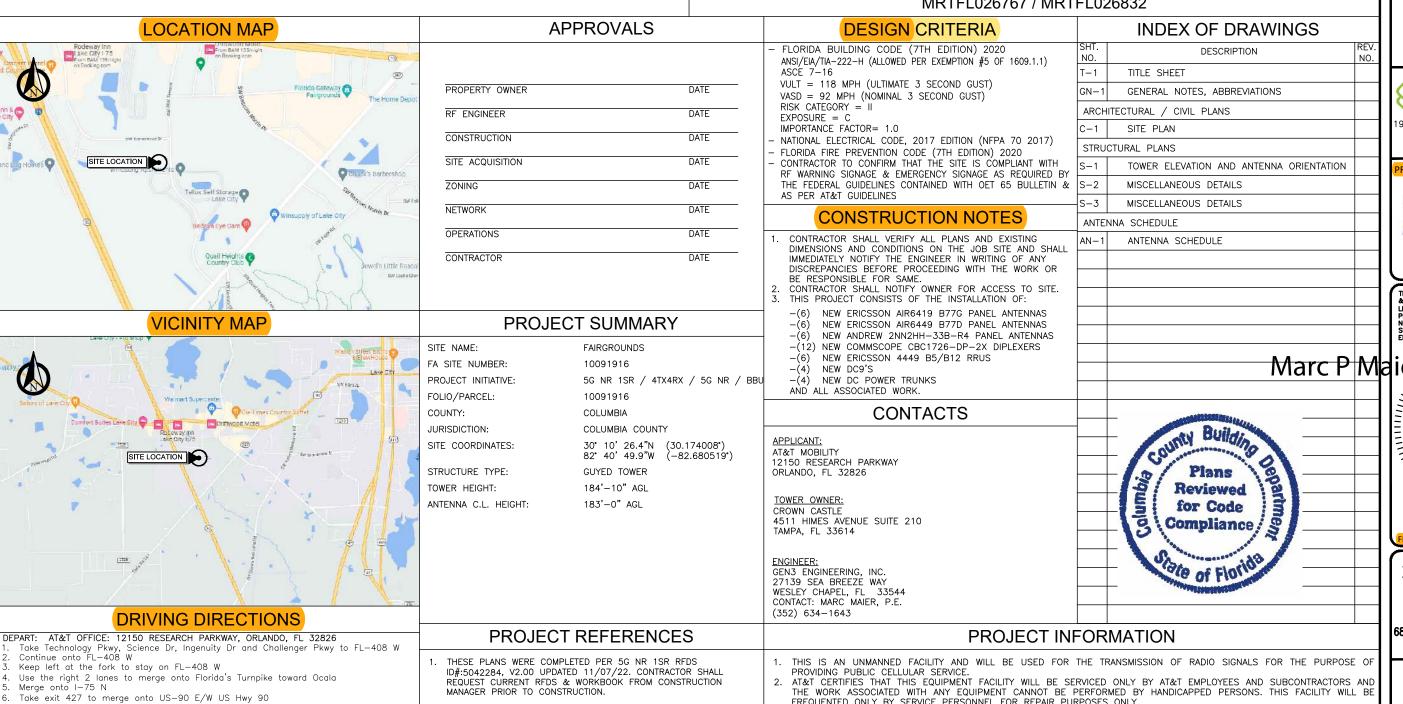
Destination will be on the right in about 0.6mi

rive at 682 SOUTHWEST COMMERCE DRIVE LAKE CITY, FL 32024

FAIRGROUNDS FA# 10091916 **CROWN CASTLE BU# 846219**

682 SOUTHWEST COMMERCE DRIVE LAKE CITY, FL 32024

TOWER UPGRADE - 5G NR 1SR / 4TX4RX / 5G NR / BBU PACE JOB# MRTFL026630 / MRTFL025754 / MRTFL025758 / MRTFL026836 / MRTFL025807 MRTFL026767 / MRTFL026832



1	REV	DATE	DATE DESCRIPTION								
	Α	12/07/22	PREL	IMINAF	YY	CDs	REV	"A"			
	0	01/12/23	F	FINAL CDs ISSUED							
	1										
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	3										
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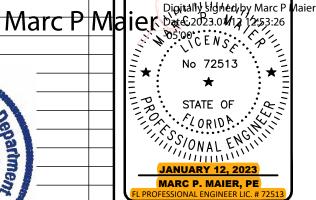


1997 ANNAPOLIS EXCHANGE PKWY SUITE 200 ANNAPOLIS, MD 21401



27139 SEA BREEZE WAY WESLEY CHAPEL, FLORIDA 33544 (813)917-2671

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED & SEALED BY MARC P. MAIER, P.E., FL. LICENSE #72513 USING A DIGITAL SIGNATURE PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED & THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



FAIRGROUNDS FA#10091916

682 SOUTHWEST COMMERCE DRIVE LAKE CITY, FL 32024

SHEET DESCRIPTION

TITLE SHEET

SHEFT NUMBER

T-1

- 2. THESE PLANS WERE COMPLETED PER TOWER ENGINEERING PROFESSIONALS MOUNT ANALYSIS, COMPLETED ON 11/30/22.
- FREQUENTED ONLY BY SERVICE PERSONNEL FOR REPAIR PURPOSES ONLY.
- NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.

 NO WASTEWATER WILL BE GENERATED AT THIS LOCATION.

 NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.

GENERAL NOTES:

- 1. ALL REFERENCES TO OWNER HEREIN SHALL BE CONSTRUED TO MEAN AT&T OR IT'S DESIGNATED REPRESENTATIVE.
- 2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS 5. ALL REINFORCING STEEL SHALL CONFORM TO ASTM 615 GRADE 60, DEFORMED ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE AND/OR COUNTY IN WHICH IT IS TO BE PERFORMED.
- UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS. OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
- 4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
- 5. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND THE TESTING AGENCY PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS. METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
- 6. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
- 8. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCAL BUILDING CODE.
- ALL PROPOSED CELLULAR EQUIPMENT AND FIXTURES SHALL BE FURNISHED BY OWNER FOR INSTALLATION BY THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.
- 10. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL

STRUCTURAL STEEL NOTES:

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE A.I.S.C. SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS- ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCLUDING THE COMMENTARY AND THE A.I.S.C. CODE OF STANDARD PRACTICE.
- 2. STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO ASTM A36. ALL STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B. ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B. ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
- 3. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D.1.1/D1.1M:2010. STRUCTURAL WELDING CODE-STEEL WELD ELECTRODES SHALL BE E70XX

- 4. ALL COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE AS SPECIFIED BY THE OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE GRADE 304 STAINLESS STEEL.
- BILLET STEEL BARS. WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A185
- 6. THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST A.I.S.C. SPECIFICATIONS.
- 7. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.
- 8. HOT-DIP GALVANIZE ITEMS SPECIFIED TO BE ZINC-COATED, AFTER FABRICATION WHERE PRACTICAL. GALVANIZING: ASTM A 123, ASTM, A 153/A 153M OR ASTM A 653/A 653M, G90, AS APPLICABLE.
- 9. REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A 780 OR BY APPLICATION OF STICK OR THICK PASTE MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED, AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS. IN STICK OR PASTE. SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS
- 10. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS IF NO INFORMATION IS CONTAINED IN THESE PLANS OR IF THE MANUFACTURER'S SPECIFICATIONS ARE STRICTER.

PERMITS:

- 1. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENTAL AGENCIES.
- 2. ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- 3. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND THE ACI 318-14, "BUILDING REQUIREMENTS FOR STRUCTURAL CONCRETE".
- 4. THE CONTRACTOR SHALL NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 5. ALL DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE OWNER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED. THE CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS

MISCELLANEOUS:

- 1. ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLES SHALL CONFORM TO ASTM A307 OR ASTM 36. ALL STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. FASTENERS SHALL 5/8" MIN. DIA. BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE PLANE. ALL EXPOSED FASTENERS, NUTS, AND WASHERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. ALL ANCHORS INTO CONCRETE SHALL BE STAINLESS STEEL
- 2. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
- 3. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND NOTIFY CONSULTANT OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.
- 4. PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE GRADE 304 STAINLESS STEEL HARDWARE THROUGHOUT.
- 5. THOROUGHLY REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTIONS.

- 6. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS TO BE A MIN. OF 8" RADIUS.
- 7. FOR GROUNDING TO BUILDING FRAME AND HATCH PLATE GROUND BARS, USE A TWO-BOLT HOLE NEPA DRILLED CONNECTOR SUCH AS T&B 32007 OR APPROVED
- 8. FOR ALL EXTERNAL GROUND CONNECTIONS. CLAMPS AND CADWELDS. APPLY A LIBERAL PROTECTIVE COATING OR AN ANTI-OXIDE COMPOUND SUCH AS 'NO-OXIDE A' BY DEARBORN CHEMICAL COMPANY.
- 9. REPAIR ALL METAL SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING ANY EXISTING RUST AND APPLYING COLD GALVANIZATION.
- 10. ANTENNA CABLE LENGTHS HAVE BEEN DETERMINED BASED ON THESE PLANS. CABLE LENGTHS LISTED ARE APPROXIMATED AND ARE NOT INTENDED TO BE USED FOR FABRICATION. DUE TO FIELD CONDITIONS, ACTUAL CABLE LENGTHS VARY. CONTRACTOR MUST FIELD VERIFY ANTENNA CABLE LENGTHS PRIOR TO

1	1	REV	DATE	DESCRIPTION
		Α	12/07/22	PRELIMINARY CDs REV "A"
		0	01/12/23	FINAL CDs ISSUED
		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		

DRAWN BY: CHECKED BY: DΡ MM



12150 RESEARCH PARKWAY ORLANDO, FL 32826



1997 ANNAPOLIS EXCHANGE PKWY SUITE 200 ANNAPOLIS, MD 21401



27139 SEA BREEZE WAY WESLEY CHAPEL, FLORIDA 33544 (813)917-2671

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CC E N S ... P ... No 72513 : = No 72513 \star SONAL ENGLISH STATE OF . Q: SONAL ENGINE MARC P. MAIER, PE FL PROFESSIONAL ENGINEER LIC # 72513

FAIRGROUNDS FA#10091916

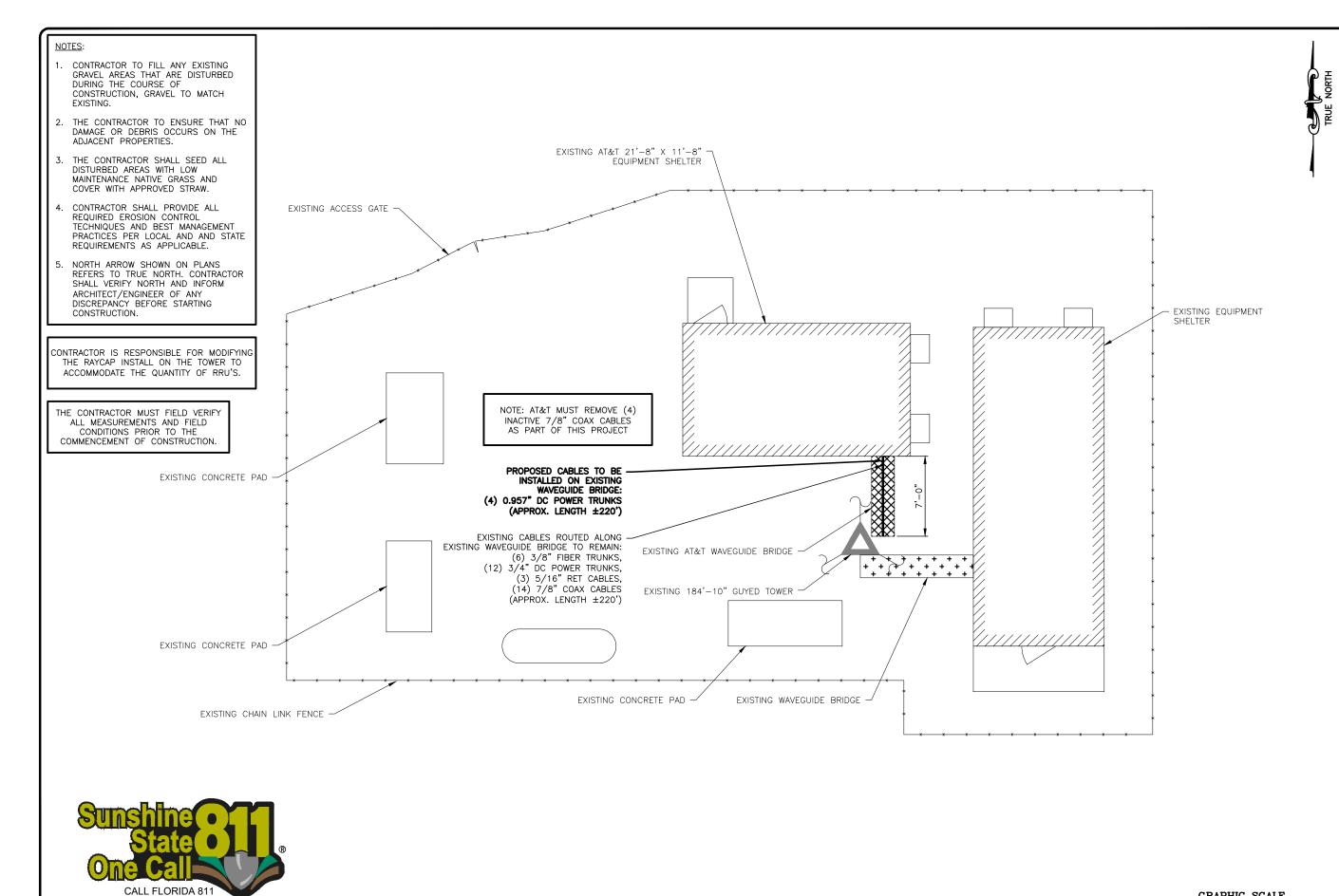
682 SOUTHWEST COMMERCE DRIVE LAKE CITY, FL 32024

SHEET DESCRIPTION

GENERAL NOTES

SHEET NUMBER

GN-1



SITE PLAN

SCALE BASED ON 11"x17" ONLY

SCALE: 1" = 8'

ONE CALL - DIAL 811 CALL 3 WORKING DAYS BEFORE YOU DIG

1-800-638-4097

GRAPHIC SCALE (IN FEET)

DESCRIPTION A 12/07/22 PRELIMINARY CDs REV "A" 0 01/12/23 FINAL CDs ISSUED 8



CHECKED BY:





1997 ANNAPOLIS EXCHANGE PKWY SUITE 200 ANNAPOLIS, MD 21401

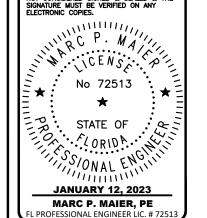
PREPARED BY:

DRAWN BY:



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FAIRGROUNDS FA#10091916

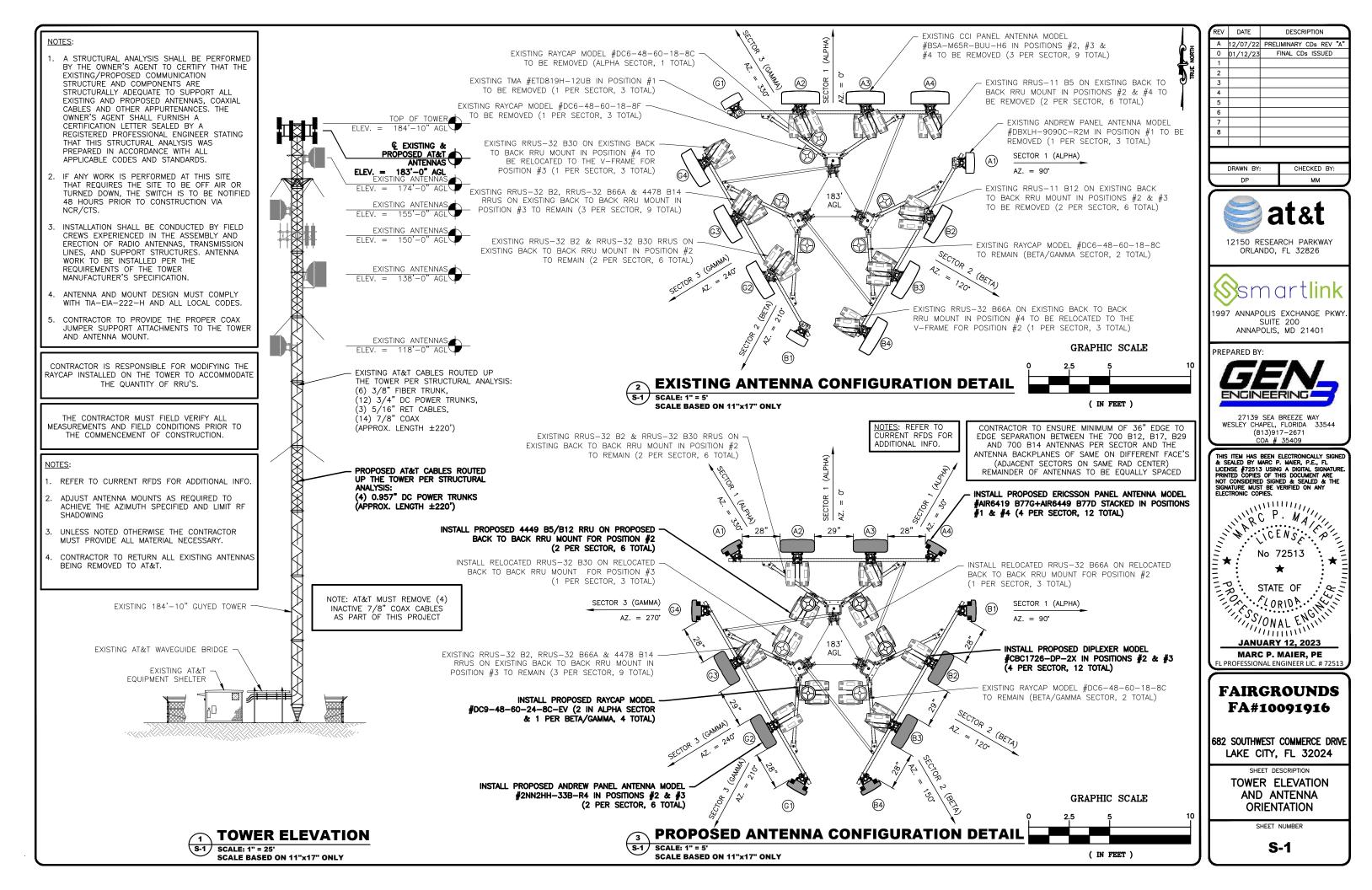
682 SOUTHWEST COMMERCE DRIVE LAKE CITY, FL 32024

SHEET DESCRIPTION

SITE PLAN

SHEET NUMBER

C-1



AIR 6419 B77G (320W) Candidate

Not to exceed figures

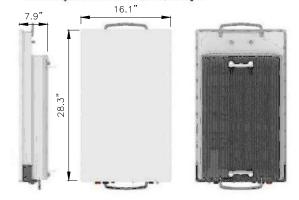
 Antenna Elements TRX Branches 64T64R Antenna configuration (3x1)x(4x8)

3450~3550 MHz Operation band: · IBW 100 MHz TCBW 100MHz 320W Output Power · Peak EIRP 79dBm

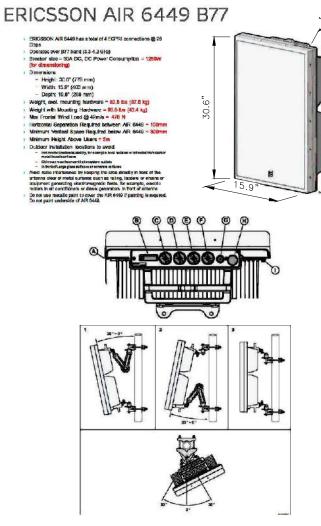
· PSD 4W/MHz (Target 8W/MHz for rural) 720x410x200mm (28.3x16.1x7.9 in) Size(HxWxD)

30kg (66.1 lbs) · Weight · Type of cooling Passive • eCPRI link 2*25G

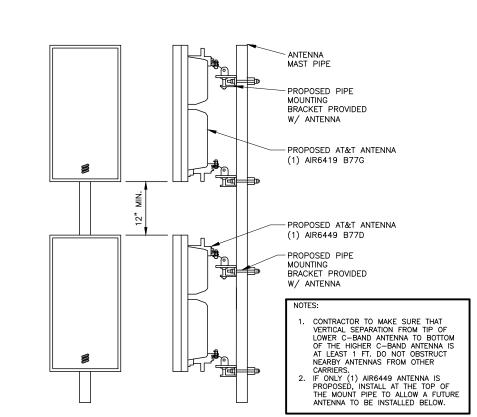
· Power Supply -48V VDC 3-wires · Multi-layer MU MIMO: 16/8 DL/UL layer



ERICSSON AIR 6419 B77G S-2 SCALE: N.T.S.



ERICSSON AIR 6449 B77D \$-2) SCALE: N.T.S.



AIR ANTENNA MOUNTING DETAIL

KEYNOTE LEGEND:

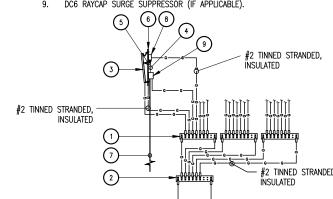
1. SECTOR GROUND BAR (TYP). COLLECTOR GROUND BAR.

SINGLE PAIR FIBER & DC POWER.

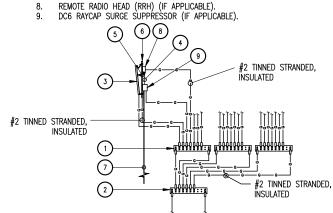
JUMPER CABLE, 1/2" (TYP).

PIPE MOUNT.

DC POWER & FIBER TO RAYCAP UNIT.



ANTENNA GROUNDING SCHEMATIC



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

DESCRIPTION A 12/07/22 PRELIMINARY CDs REV "A" 0 01/12/23 FINAL CDs ISSUED 8 DRAWN BY: CHECKED BY: ММ



12150 RESEARCH PARKWAY ORLANDO, FL 32826



1997 ANNAPOLIS EXCHANGE PKWY SUITE 200 ANNAPOLIS, MD 21401

PREPARED BY:



27139 SEA BREEZE WAY WESLEY CHAPEL, FLORIDA 33544 (813)917-2671

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FAIRGROUNDS FA#10091916

MARC P. MAIER. PE

FL PROFESSIONAL ENGINEER LIC. # 72513

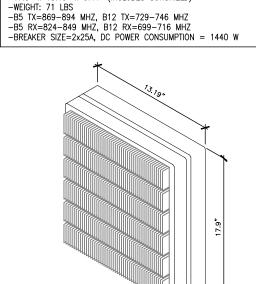
682 SOUTHWEST COMMERCE DRIVE LAKE CITY, FL 32024

SHEET DESCRIPTION

MISCELLANEOUS **DETAILS**

SHEFT NUMBER

S-2



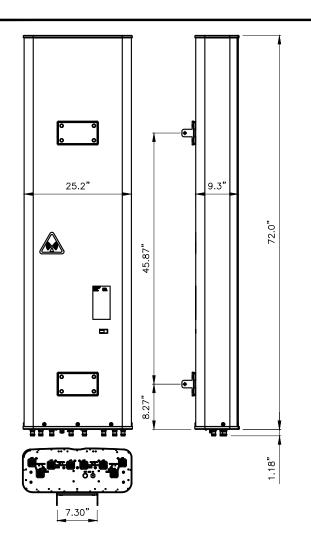
ERICSSON RRUS-4449 B5/B12

17.9" x 13.19" x 9.44" (INCLUDES SUNSHIELD)

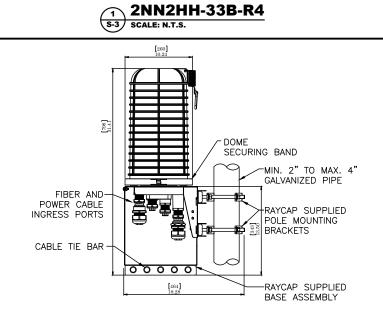
-DIMENSIONS (H \times W \times D):

NOTE: RRUS CAN ONLY BE PAINTED ON SOLAR SHIELD.

RRUS 4449 B5/B12 DETAIL
S-2 SCALE: N.T.S.

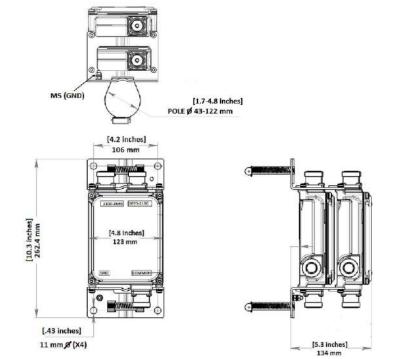


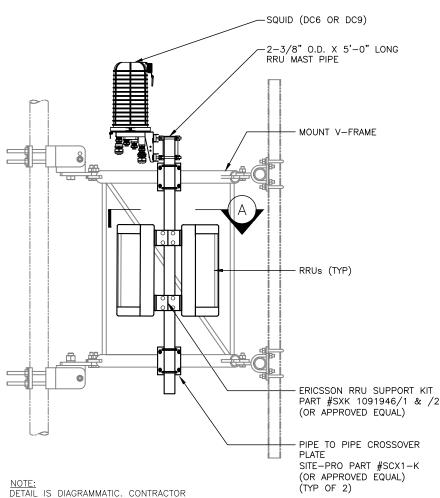


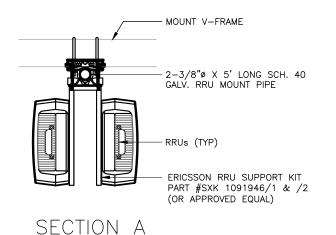


- NOTES:
 1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
- 2. CONTRACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG
- TIGHT" CONDITION AS DEFINED BY AISC.
 3. CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRH'S.

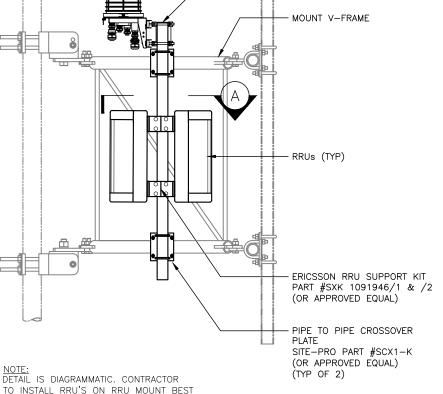
3 DC9-48-60-24-8C-EV MOUNT DETAIL SCALE: N.T.S.







FRU MOUNTING DETAIL
S-3 SCALE: N.T.S.





MARC P. MAIER, PE
FL PROFESSIONAL ENGINEER LIC. # 72513

DESCRIPTION

FINAL CDs ISSUED

CHECKED BY:

MM

at&t

12150 RESEARCH PARKWAY ORLANDO, FL 32826

1997 ANNAPOLIS EXCHANGE PKWY. SUITE 200 ANNAPOLIS, MD 21401

27139 SEA BREEZE WAY WESLEY CHAPEL, FLORIDA 33544

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No 72513

STATE OF

SONAL ENGLISH

A 12/07/22 PRELIMINARY CDs REV "A"

0 01/12/23

DRAWN BY:

PREPARED BY:

8

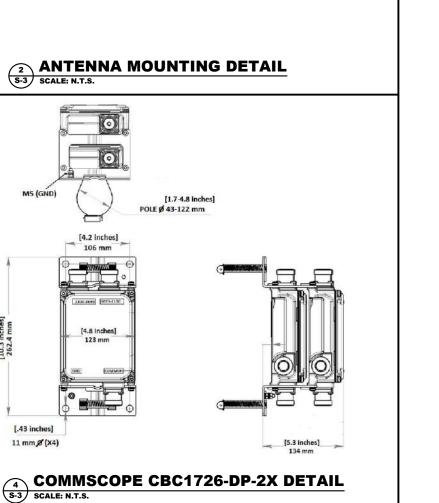
682 SOUTHWEST COMMERCE DRIVE LAKE CITY, FL 32024

SHEET DESCRIPTION

MISCELLANEOUS DETAILS

SHEET NUMBER

S-3



SUITED FOR ANTENNA CONFIGURATION.

PROPOSED PIPE MOUNTING

PROPOSED AT&T

PROPOSED PIPE MOUNTING

BRACKET PROVIDED W/ ANTENNA ANTENNA

ANTENNA

MAST PIPE

W/ ANTENNA

BRACKET PROVIDED

	DC / FIBER DEMARCATION BOX									
RAYCAP DO	FIBER DEMARCATION BOX		CABLES	NOTES						
MOUNTING HEIGHT	MODEL	дту	MODEL	SIZE	QTY	LENGTH PER LINE				
183'-0"	DC6-48-60-18-8C	2	ROSENBERGER (18) PAIR FIBER TRUNK	3/8"	6	220'-0"				
183'-0"	DC9-48-60-24-8C-EV	4	(6)- #8 AWG TINNED COPPER CONDUCTORS	3/4"	12	220'-0"				
			(6)- #6 AWG TINNED COPPER CONDUCTORS	0.957"	4	220'-0"				

									ANTENNA AND COAX SCHEDULE												
		ANTENNAS						CABLES			RRU				COMPONENT			TMA			
CECTOR	AZ	RAD CENTER	MAKE	ANTENNA MODEL	(QTY)	APPROXIMATE ANTENNA SPECS		/N TILT	*****	SIZE	(OT)(LENGTH/	COLOR	MODEL		GRND	MODEL	TWR	GRND	MODEL	(QTY
SECTOR	-						ELEC	IVIECH		_	(QTY)			MODEL	(QTY)	(QTY)	MODEL	(QTY)	(QTY)	MODEL	(QI)
LPHA (A1)	330"	183'-0"	ERICSSON	AIR6419 B77G	1	H=28.3" x W=16.1" x D=7.9"	~	2	ROSENBERGER FIBER JUMPER (DC9 TO ANTENNA)	3/8"	4	15'-0"	1 RED	1.61	20	(2)	-	32	8		123
LONA (AC)	O°	183'-0"	ANDREW	AIR6449 B77D 2NN2HH-33B-R4	1	H=30.6" x W=15.9" x D=10.6" H=72" x W=25" x D=9.3"	4/2	-	ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO ANT)	7/16"	2	15'-0"	1 RED	2	-				-		-
LPHA (A2)	Ü.	183 -0	ANDREW	ZNN2HH-33B-K4	1	H=72 X W=25 X D=9.3	4/2	- 5	ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	7	15'-0"	2 RED	4449 B5/B12	2		CBC1726-DP-2X	2	3	13	- 35
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	7	15'-0"	2 RED	RRUS-32 B2	1	50	CBC1726-DP-2X	2			
									1/2" COAX JUMPER (RRU TO DIPLEXER)	1/2"	8	6'-0"	2 RED	RRUS-32 B66A	1						
									1/2" COAX JUMPER (DIPLEXER TO ANTENNA)	1/2"	4	6'-0"	2 RED	RRUS-32 B30	1	188					
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	2 RED	1111303 02 3000							
LPHA (A3)	O°	183'-0"	ANDREW	2NN2HH-33B-R4	1	H=72" x W=25" x D=9.3"	4/2	8	-			2	128	7.51	-	143	S41	-	2	-	1 5
	55	DESCRIBATION	NO MERCINO DE		100		- Carrier		RÖSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	5	15'-0"	3 RED	4478 B14	1	100	CBC1726-DP-2X	2			
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	4	15'-0"	3 RED	RRUS-32 B2	1	0.00	CONTRACTOR AND CONTRACTOR OF CONTRACTOR	5.615			
									1/2" COAX JUMPER (RRU TO DIPLEXER)	1/2"	8	6'-0"	3 RED	RRUS-32 B66A	1	340					
									1/2" COAX JUMPER (DIPLEXER TO ANTENNA)	1/2"	4	6'-0"	3 RED	RRUS-32 B30	1	(20)					
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	3 RED								
LPHA (A4)	30°	183'-0"	ANDREW	AIR6419 B77G	1	H=28.3" x W=16.1" x D=7.9"	*		ROSENBERGER FIBER JUMPER (DC9 TO ANTENNA)	3/8"	4	15'-0"	4 RED	: ** 3	-5.	(+ 0			*		
				AIR6449 B77D	1	H=30.6" x W=15.9" x D=10.6"			ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO ANT)	1/2"	2	15'-0"	4 RED								
ETA (B1)	90°	183'-0"	ERICSSON	AIR6419 B77G	1	H=28.3" x W=16.1" x D=7.9"	12	-	ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	1 BLUE	-	-		12		-2	-	
	3 46977	1.000	2020-000-000	AIR6449 B77D	1	H=30.6" x W=15.9" x D=10.6"			ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	2	15'-0"	1 BLUE								
ETA (B2)	120°	183'-0"	ANDREW	2NN2HH-33B-R4	1	H=72" x W=25" x D=9.3"	4/2	2	-	2	12	- 2	150	121	-	148	848	-	- 2	- 2	0 5
	7.00 C.O.	10000000000	E-MARKETON RE-		252		CHRIST		ROSENBERGER FIBER JUMPER (DC9 TO ANTENNA)	3/8"	7	15'-0"	2 BLUE	4449 B5/B12	2		CBC1726-DP-2X	2	-		
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO ANT)	7/16"	7	15'-0"	2 BLUE	RRUS-32 B2	1	923		_			
									1/2" COAX JUMPER (RRU TO DIPLEXER)	1/2"	8	6'-0"	2 BLUE	RRUS-32 B66A	1						
									1/2" COAX JUMPER (DIPLEXER TO ANTENNA)	1/2"	4	6'-0"	2 BLUE	RRUS-32 B30	-1	020					
									1/2" COAX JUMPER (BIFLEXEN TO ANTENNA)	1/2"	12	10'-0''	2 BLUE	MK03-32 530	-						
ETA (B3)	120°	183'-0"	ANDREW	2NN2HH-33B-R4	1	H=72" x W=25" x D=9.3"	4/2	-	-	IJ C	.12	10-0	-					-	-		- 18
LIM (DS)	120	103 0	ANDILLY	ZINIZIII 335 IN		11-72 X 11-23 X 3-3.3	-1/2		ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	5	15'-0"	3 BLUE	4478 B14	1	028	CBC1726-DP-2X	2	2		
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	4	15'-0"	3 BLUE	RRUS-32 B2	1		CDC1720-D1-2X	*			
									1/2" COAX JUMPER (RRU TO DIPLEXER)	1/2"	8	6'-0"	3 BLUE	RRUS-32 B66A	1	170					
									1/2" COAX JUMPER (DIPLEXER TO ANTENNA)	1/2"	4	6'-0"	3 BLUE	RRUS-32 B30	1	140					
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	3 BLUE								
BETA (B4)	150°	183'-0"	ANDREW	AIR6419 B77G	1	H=28.3" x W=16.1" x D=7.9"		-	ROSENBERGER FIBER JUMPER (DC9 TO ANTENNA)	3/8"	4	15'-0"	4 BLUE		-			-	-	1.5	
			PACE OF ELECTRON	AIR6449 B77D	1	H=30.6" x W=15.9" x D=10.6"			ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO ANT)	1/2"	2	15'-0"	4 BLUE						-20		
AMMA (G1)	210°	183'-0"	ERICSSON	AIR6419 B77G	1	H=28.3" x W=16.1" x D=7.9"	-	-	RÓSENBERGER FIBER JUMPER (DC9 TÓ RRU)	3/8"	4	15'-0"	1 ĠREEN		- 5	-	-	-	-	-	
35 - 35				AIR6449 B77D	1	H=30.6" x W=15.9" x D=10.6"			ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	2	15'-0"	1 GREEN								
MMA (G2)	240°	183'-0"	ANDREW	2NN2HH-33B-R4	1	H=72" x W=25" x D=9.3"	6/3	- 5	5		376			1/5)	5.	130	127			12	1
									RÖSENBERGER FIBER JUMPER (DC9 TO ANTENNA)	3/8"	7	15'-0"	2 GREEN	4449 B5/B12	2	0.00	CBC1726-DP-2X	2			
									ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO ANT)	7/16"	7	15'-0"	2 GREEN	RRUS-32 B2	1	949					
									1/2" COAX JUMPER (RRU TO DIPLEXER)	1/2"	8	6'-0"	2 GREEN	RRUS-32 B66A	1	528					
									1/2" COAX JUMPER (DIPLEXER TO ANTENNA)	1/2"	4	6'-0"	2 GREEN	RRUS-32 B30	1	558					
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	2 GREEN								
MMA (G3)	240°	183'-0"	ANDREW	2NN2HH-33B-R4	1	H=72" x W=25" x D=9.3"	6/3	-	-	-		- 21	555	2	20	628	-	G.	22	2	- 1
									ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	5	15'-0"	3 GREEN	4478 B14	1	878	CBC1726-DP-2X	2			
								1	ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	4	15'-0"	3 GREEN	RRUS-32 B2	1	198			1 1		
								1	1/2" COAX JUMPER (RRU TO DIPLEXER)	1/2"	8	6'-0"	3 GREEN	RRUS-32 B66A	1	-			1 1		
								1	1/2" COAX JUMPER (DIPLEXER TO ANTENNA)	1/2"	4	5'-0"	3 GREEN	RRUS-32 B30	1	-			1 1		
	2542				40.54			1	1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	3 GREEN			g) g			\vdash		-
MMA (G4)	270°	183'-0"	ANDREW	AIR6419 B77G	1	H=28.3" x W=16.1" x D=7.9"	39	-	ROSENBERGER FIBER JUMPER (DC9 TO ANTENNA)	3/8"	4	15'-0"	4 GREEN	(e)	- 89	- 20	=	i e	- 1		3
				AIR6449 B77D	1	H=30.6" x W=15.9" x D=10.6"		1	ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO ANT)	1/2"	2	15'-0"	4 GREEN			d 8					8
				TOTAL	18				TOTAL 7/8"COAX (INACTIVE TO REMAIN)		14	3080'-0"		TOTAL	27	0	TOTAL	12	0	TOTAL	

- ANTENNA AND COAX INFORMATION PROVIDED FROM THE 5G NR 1SR RFDS V2.00 DATED 11/07/22.

- CONTRACTOR TO VERIFY REINFO WITH CLIENT PRIOR TO CONSTRUCTION.

- COAX LENGTHS ARE APPROXIMATE AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.

-ALL COAX SHALL BE COLOR CODED AT TOP AN BOTTOM JUMPER AND AT TOP OF TOWER

BOTTOM OF TOWER, AND INSIDE SHELTER ON MAIN COAX.

-EACH MAIN COAX SHALL HAVE CORROSION PROOF "ID TAGS" INSTALLED INSIDE THE SHELTER

AT THE PORT AND AT THE ANTENNA.

QUANTITIES GIVEN ARE TOTAL EXISTING AND PROPOSED.

TOTAL 7/8"COAX (INACTIVE TO REMAIN)	14	3080'-0"
TOTAL FIBER JUMPER	60	900'-0"
TOTAL DC JUMPER	45	675'-0"
TOTAL 1/2" COAX JUMPERS	132	1032'-0"
TOTAL 5/16" RET JUMPERS	6	90'-0"
TOTAL 5/16" RET CABLES	3	660'-0"

NOTE: AT&T MUST REMOVE (4)
INACTIVE 7/8" COAX CABLES
AS PART OF THIS PROJECT



١	REV	DATE	DESCRIPTION
	Α	12/07/22	PRELIMINARY CDs REV "A"
	0	01/12/23	FINAL CDs ISSUED
ı	1		
ı	2		
ı	3		
	4		
ı	5		
ı	6		
ı	7		
ı	8		
ı			

DRAWN BY: CHECKED BY:

DP MM



12150 RESEARCH PARKWAY ORLANDO, FL 32826



1997 ANNAPOLIS EXCHANGE PKWY. SUITE 200 ANNAPOLIS, MD 21401



27139 SEA BREEZE WAY WESLEY CHAPEL, FLORIDA 33544 (813)917-2671 COA # 35409

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STATE OF

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JANUARY 12, 2023

MARC P. MAIER, PE

FL PROFESSIONAL ENGINEER LIC. # 72513

FAIRGROUNDS FA#10091916

682 SOUTHWEST COMMERCE DRIVE LAKE CITY, FL 32024

SHEET DESCRIPTION

ANTENNA SCHEDULE

SHEET NUMBER

AN-1