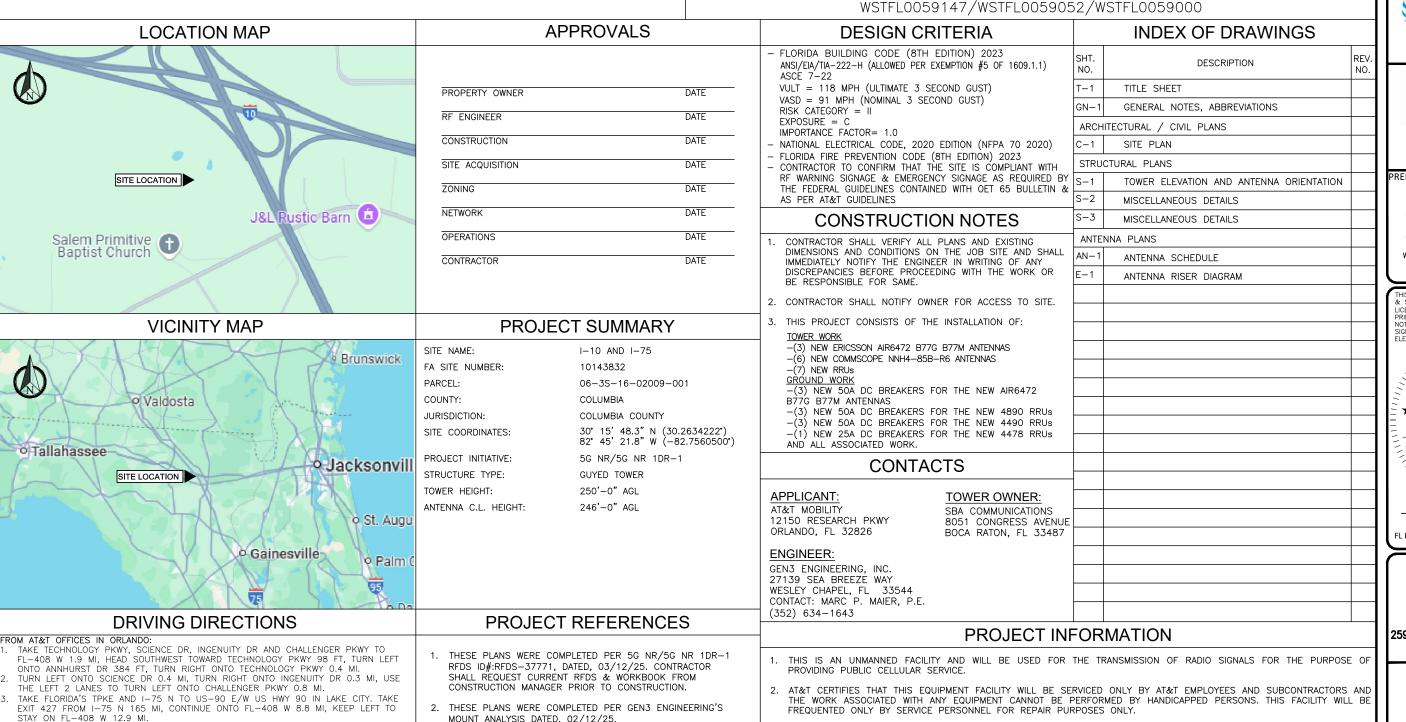


I-10 AND I-75 FA #10143832 SBA SITE# FL15359

259 NORTHWEST SERENE COURT LAKE CITY. FL 32055

TOWER UPGRADE - 5G NR/5G NR 1DR-1

IWM#: WSTFL0059057/WSTFL0059023/WSTFL0058969/WSTFL0059225/ WSTFL0059147/WSTFL0059052/WSTFL0059000



DESCRIPTION A 02/17/25 PRELIMINARY CDs REV 0 06/26/25 FINAL CDs ISSUED 1 07/16/25 MASTEC REDLINES DRAWN BY: CHECKED BY: MM



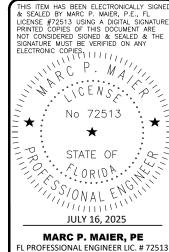
12150 RESEARCH PARKWAY ORLANDO, FL 32826

MasTec **Network Solutions**

800 S. DOUGLAS ROAD 10TH FLOOR CORAL GABLES, FL 33134



(813)917-2671



I-10 AND I-75 FA #10143832

259 NORTHWEST SERENE COURT LAKE CITY, FL 32055

SHEET DESCRIPTION

TITLE SHEET

SHEET NUMBER

T-1

USE THE RIGHT 2 LANES TO TAKE THE FLORIDA'S TURNPIKE EXIT TOWARD OCALA 0.6 MI, MERGE WITH FLORIDA'S TPKE 42.6 MI, MERGE WITH I-75 N 100 MI, TAKE EXIT 427 TO MERGE WITH US-90 E/W US HWY 90 0.3 MI.
TAKE NW LAKE JEFFERY RD TO NW SERENE CT 9.6 MI

RRIVE 259 NORTHWEST SERENE COURT LAKE CITY, FL 32055

MOUNT ANALYSIS DATED, 02/12/25.

- 3. NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION
- 4. NO WASTEWATER WILL BE GENERATED AT THIS LOCATION.
- 5. 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 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.
- 3. 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.
- 9. 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 A26. 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 F70XX

- 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.
- 5. ALL REINFORCING STEEL SHALL CONFORM TO ASTM 615 GRADE 60, DEFORMED 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 MATERIAL.
- 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 BE 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 FOLIAL.
- 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 ORDER.

١	REV	DATE	DESCRIPTION
	Α	02/17/25	PRELIMINARY CDs REV "A"
	0	06/26/25	FINAL CDs ISSUED
	1	07/16/25	MASTEC REDLINES
	2		
I			

DRAWN BY:

ME

S ΔΤ&Τ

CHECKED BY:

MM

12150 RESEARCH PARKWAY ORLANDO, FL 32826

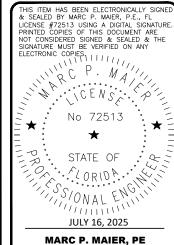
MasTec
Network Solutions

800 S. DOUGLAS ROAD 10TH FLOOR CORAL GABLES, FL 33134

PREPARED BY:



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



FL PROFESSIONAL ENGINEER LIC. # 72513

I-10 AND I-75 FA #10143832

259 NORTHWEST SERENE COURT LAKE CITY, FL 32055

SHEET DESCRIPTION

GENERAL NOTES, ABBREVIATIONS

SHEET NUMBER

GN-1

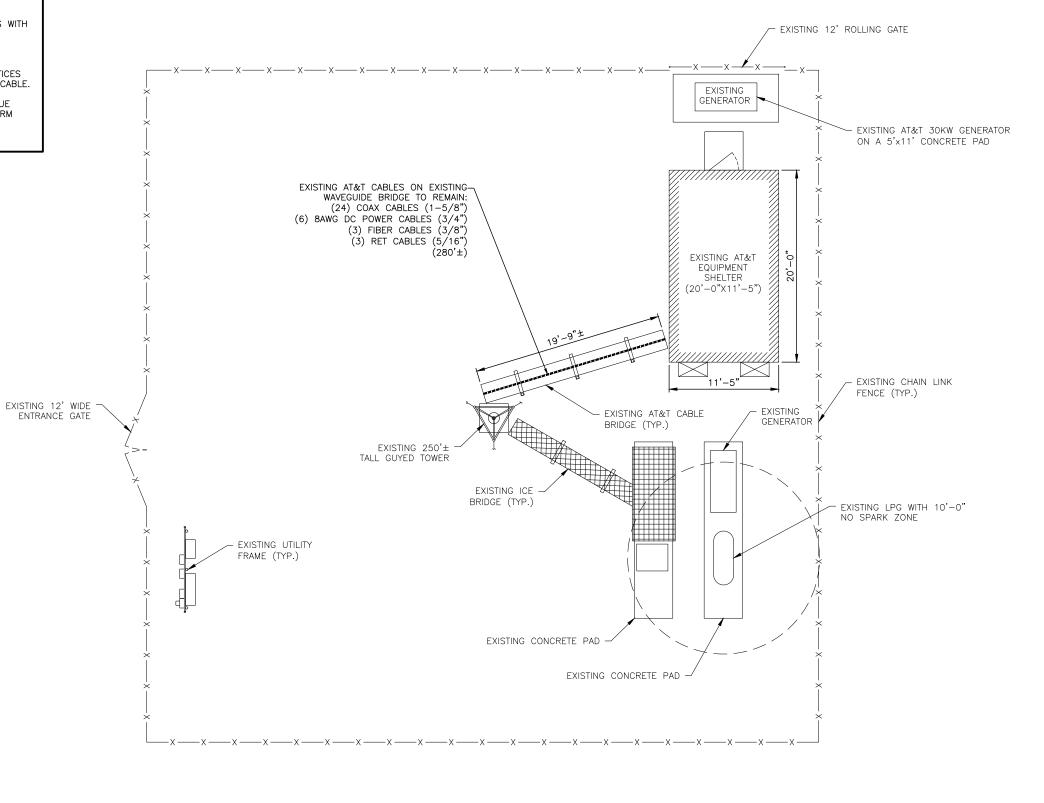
3 Engineering — C:\Users\mpm17\Downloads\10020431_l-10 AND 1-75_56 NR RADIO CD.dwg July 16, 2025 6:59:01 PM mpm17

NOTES:

- CONTRACTOR TO FILL ANY EXISTING GRAVEL AREAS THAT ARE DISTURBED DURING THE COURSE OF CONSTRUCTION, GRAVEL TO MATCH EXISTING.
- 2. THE CONTRACTOR TO ENSURE THAT NO DAMAGE OR DEBRIS OCCURS ON THE ADJACENT PROPERTIES.
- THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITH LOW MAINTENANCE NATIVE GRASS AND COVER WITH APPROVED STRAW.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED EROSION CONTROL TECHNIQUES AND BEST MANAGEMENT PRACTICES PER LOCAL AND AND STATE REQUIREMENTS AS APPLICABLE.
- NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.

CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE RAYCAP INSTALL ON THE TOWER TO ACCOMMODATE THE QUANTITY OF RRU'S.

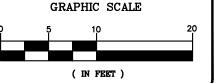
THE CONTRACTOR MUST FIELD VERIFY ALL MEASUREMENTS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.





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DRAWN BY:

ME

12150 RESEARCH PARKWAY ORLANDO, FL 32826

CHECKED BY:

MM

MasTec Network Solutions

800 S. DOUGLAS ROAD 10TH FLOOR CORAL GABLES, FL 33134

REPARED BY:



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

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*

STATE OF

JULY 16, 2025

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

I-10 AND I-75 FA #10143832

259 NORTHWEST SERENE COURT LAKE CITY, FL 32055

SHEET DESCRIPTION

SITE PLAN

SHEET NUMBER

C-1

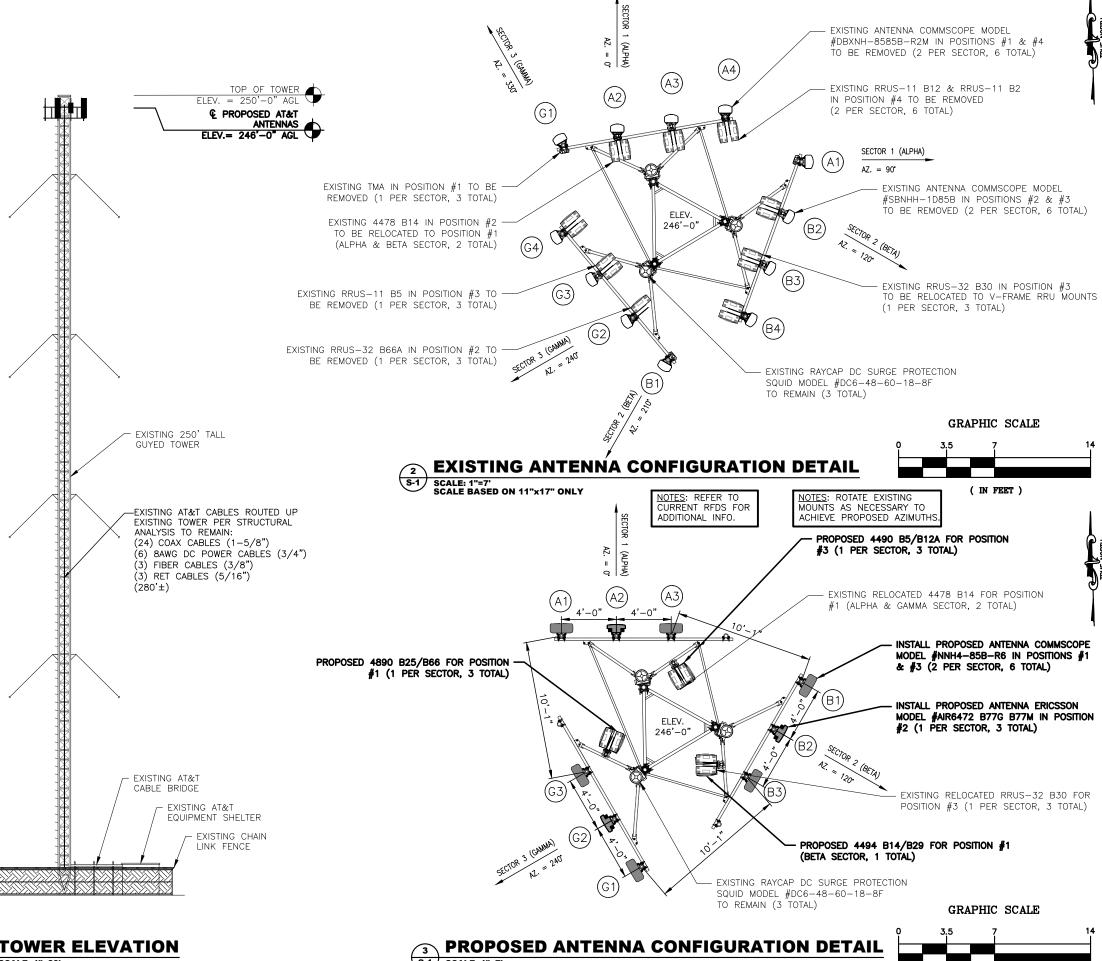
- 2. IF ANY WORK IS PERFORMED AT THIS SITE THAT REQUIRES THE SITE TO BE OFF AIR OR TURNED DOWN, THE SWITCH IS TO BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION VIA NCR/CTS.
- 3. INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES, AND SUPPORT STRUCTURES. ANTENNA WORK TO BE INSTALLED PER THE REQUIREMENTS OF THE TOWER MANUFACTURER'S SPECIFICATION.
- ANTENNA AND MOUNT DESIGN MUST COMPLY WITH TIA-EIA-222-H AND ALL LOCAL CODES.
- CONTRACTOR TO PROVIDE THE PROPER COAX JUMPER SUPPORT ATTACHMENTS TO THE TOWER AND ANTENNA MOUNT.

CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE RAYCAP INSTALLED ON THE TOWER TO ACCOMMODATE THE QUANTITY OF RRU'S.

THE CONTRACTOR MUST FIELD VERIFY ALL MEASUREMENTS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

NOTES:

- REFER TO CURRENT RFDS FOR ADDITIONAL INFO.
- ADJUST ANTENNA MOUNTS AS REQUIRED TO ACHIEVE THE AZIMUTH SPECIFIED AND LIMIT RF
- UNLESS NOTED OTHERWISE THE CONTRACTOR MUST PROVIDE ALL MATERIAL NECESSARY.
- CONTRACTOR TO RETURN ALL EXISTING ANTENNAS BEING REMOVED TO AT&T.



DESCRIPTION A 02/17/25 PRELIMINARY CDs REV "/ 0 06/26/25 FINAL CDs ISSUED 1 07/16/25 MASTEC REDLINES



CHECKED BY:

ORLANDO, FL 32826

***M**asTec **Network Solutions**

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

I-10 AND I-75 FA #10143832

259 NORTHWEST SERENE COURT LAKE CITY, FL 32055

SHEET DESCRIPTION

TOWER ELEVATION AND ANTENNA ORIENTATION

SHEET NUMBER

(IN FEET)

S-1

TOWER ELEVATION SCALE: 1"=30' SCALE BASED ON 11"x17" ONLY

SCALE: 1"=7" SCALE BASED ON 11"x17" ONLY

AIR 6472 B77G B77M, Wide band Product Spec

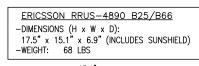
TRX Branches 64T64R Antenna Elements Antenna configuration (4x1)x(4x8)

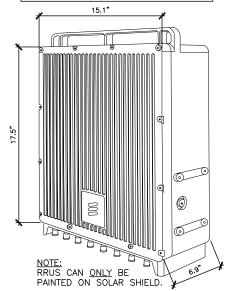
B77G (3450-3550 MHz) + B77M (3840-3980 MHz) Operation band

Weight 42 kg

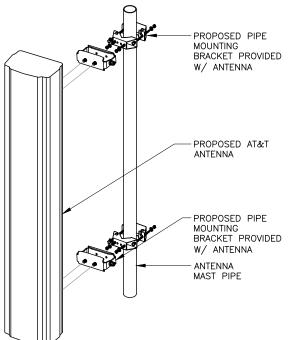
925Hx410Wx190D mm, 72 L





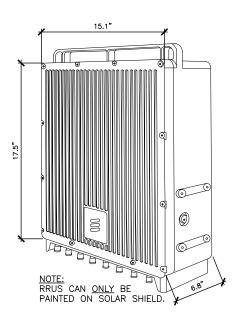


5 RRUS 4890 B25/B66 DETAIL SCALE: N.T.S.

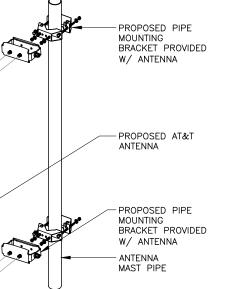


3 ANTENNA MOUNTING DETAIL SCALE: N.T.S.

ERICSSON RRUS-4490 B5/B12A -DIMENSIONS (H \times W \times D): 17.5" x 15.1" x 6.8" (INCLUDES SUNSHIELD) -WEIGHT: 68 LBS



6 RADIO 4490 B5/B12A S-2 SCALE: N.T.S.



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DESCRIPTION

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MM

A 02/17/25 PRELIMINARY CDs REV "A 0 06/26/25 FINAL CDs ISSUED 1 07/16/25 MASTEC REDLINES

12150 RESEARCH PARKWAY

ORLANDO, FL 32826

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800 S. DOUGLAS ROAD 10TH FLOOR CORAL GABLES, FL 33134

27139 SEA BREEZE WAY WESLEY CHAPEL, FLORIDA 33544

(813)917-2671

COA # 35409

DRAWN BY:

I-10 AND I-75 FA #10143832

259 NORTHWEST SERENE COURT LAKE CITY, FL 32055

SHEET DESCRIPTION

MISCELLANEOUS DETAILS

SHEET NUMBER

S-2

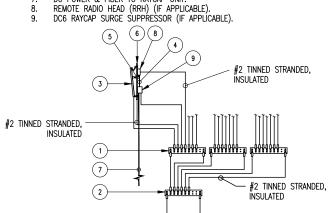
SECTOR GROUND BAR (TYP).
COLLECTOR GROUND BAR.

NEW ANTENNA.

SINGLE PAIR FIBER & DC POWER.

JUMPER CABLE, 1/2" (TYP). PIPE MOUNT.

DC POWER & FIBER TO RAYCAP UNIT.

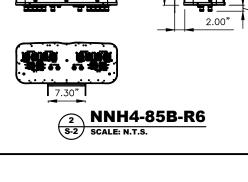


1. UTILIZE EXISTING AT&T GROUND BARS AND GROUNDING.

ADD GROUND BARS IF THERE ARE INSUFFICIENT LUG POSITIONS.

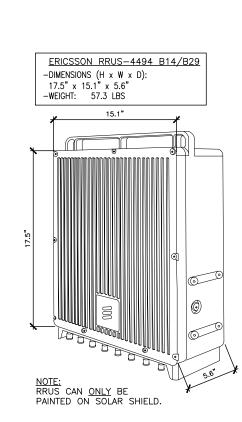
3. REFERENCE AT&T BONDING & GROUNDING PRACTICE TP76416.

ANTENNA GROUNDING SCHEMATIC 4 ANTEN S-2 SCALE: N.T.S.



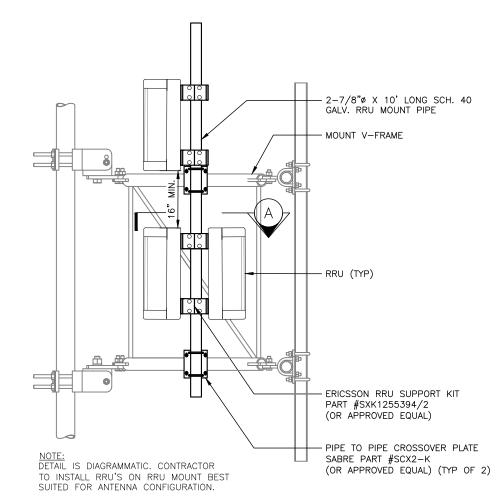
19.61"

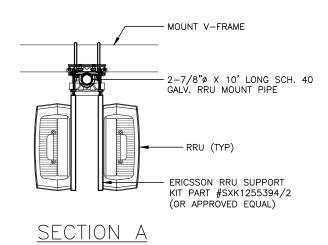




4494 B14/B29 DETAIL

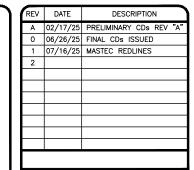
1 4494 B' S-3 SCALE: N.T.S.











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JULY 16, 2025 MARC P. MAIER, PE FL PROFESSIONAL ENGINEER LIC. # 72513

I-10 AND I-75 FA #10143832

259 NORTHWEST SERENE COURT LAKE CITY, FL 32055

SHEET DESCRIPTION

MISCELLANEOUS DETAILS

SHEET NUMBER

S-3

١	REV	DATE	DESCRIPTION
	Α	02/17/25	PRELIMINARY CDs REV "A"
ı	0	06/26/25	FINAL CDs ISSUED
	1	07/16/25	MASTEC REDLINES
	2		
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CHECKED BY:





I-10 AND I-75 FA #10143832

9 NORTHWEST SERENE COURT LAKE CITY, FL 32055

SHEET DESCRIPTION

ANTENNA SCHEDULE

SHEET NUMBER

AN-1

ANTENNA AND COAX SCHEDULE												12150 RESEARCH PARKWAY ORLANDO, FL 32826									
	ANTENNAS					CABLES				RRU			DIPLEXER/DIP	DIPLEXER/DIPLEXER/FILTER			ORLANDO, FL 32828				
		RAD		ANTENNA		APPROXIMATE		N TILT	Same Star		· · · · · · · · · · · · · · · · · · ·	LENGTH/	COLOR	Name and A		GRND		TWR GRND			M
SECTOR	AZ	CENTER	MAKE	MODEL	(QTY)	ANTENNA SPECS	ELEC	MECH	MODEL	SIZE	(QTY)	LINE	CODE	MODEL	(QTY) (QTY)	MODEL	(QTY) (QTY)	MODEL	(QTY)	l™asTed
ALPHA (A1)	0°	246'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.9" x W=19.6" x D=7.7"	-	-	POSENIARED CER FIRER LINARED (DOC TO RRUI)	2 (011	-	451.00	4.050	-	-	-	-		-	-	
									ROSENBERGER FIBER JUMPER (DC6 TO RRU) ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU)	3/8" 7/16"	3	15'-0" 15'-0"	1 RED 1 RED	4890 B25/B66 4478 B14	1		-		-	- 1	Network Solution
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	1 RED	4476 614	1		-		-		800 S. DOUGLAS ROAD
ALPHA (A2)	O°	246'-0"	ERICSSON	AIR6472 B77G B77M	1	H=36.3" x W=15.8" x D=7.4"		-	-		-	-	-	-		-	-		-	-	10TH FLOOR
,									ROSENBERGER FIBER JUMPER (DC6)	3/8"	2	15'-0"	2 RED	Η.	-	-	-		×	=	CORAL GABLES, FL 3313
									ROSENBERGER SINGLE PAIR DC CABLE (DC6)	7/16"	1	15'-0"	2 RED	-	-	-	-		-	-	EPARED BY:
ALPHA (A3)	0°	246'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.9" x W=19.6" x D=7.7"	-	-	-	-	-	-	-	-	-	-	-	-	-	- '	AIRED DI.
									ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	4	15'-0"	3 RED	RRUS-32 B30	1	-	-		-	- '	
									ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU)	7/16"	2	15'-0"	3 RED	4490 B5/B12A	1	-	[=]	H H	Ξ	= 1	IJE/Y
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	3 RED	-	-	-	-		-	-	ENGINEERING -
ALPHA (A4)	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-		-		
BETA (B1)	120°	246'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.9" x W=19.6" x D=7.7"	-	*	-	-	×		-	-	-	-	-		-	- '	27139 SEA BREEZE WAY WESLEY CHAPEL, FLORIDA 33
									ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	4	15'-0"	1 BLUE	4890 B25/B66	1	Ξ.	-	H H	=	-	(813)917-2671
									ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU)	7/16"	3	15'-0"	1 BLUE	4494 B14/B29	1	-	-		-	- '	COA # 35409
BETA (B2)	120°	246'-0"	ERICSSON	AIR6472 B77G B77M	1	H=36.3" x W=15.8" x D=7.4"	-		1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	1 BLUE	-	-	-	-			-	IIS ITEM HAS BEEN ELECTRONICALLY
BETA (BZ)	120	246 -0	ERICSSON	AIR04/2 B//G B//W	1	H=36.5 X W=15.8 X D=7.4	-	-	ROSENBERGER FIBER JUMPER (DC6)	3/8"	2	15'-0"	2 BLUE	_	-		-		-		SEALED BY MARC P. MAIER, P.E., F CENSE #72513 USING A DIGITAL SIG
									ROSENBERGER SINGLE PAIR DC CABLE (DC6)	7/16"	1	15'-0"	2 BLUE		-		-		-		INTED COPIES OF THIS DOCUMENT
BETA (B3)	120°	246'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.9" x W=19.6" x D=7.7"	-	-	-	-	-	-	-	-	-	-	-		-	-	DT CONSIDERED SIGNED & SEALED (GNATURE MUST BE VERIFIED ON AN
									ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	4	15'-0"	3 BLUE	RRUS-32 B30	1	-	-		-	- '	ECTRONIC COPIES
									ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU)	7/16"	2	15'-0"	3 BLUE	4490 B5/B12A	1	-	-		-	=	I NOC P. MALL
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	3 BLUE	-	-	-	-		-	-	The second secon
BETA (B4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	'	L. 4 / CFN 2 , 4
GAMMA (G1)	240°	246'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.9" x W=19.6" x D=7.7"	-	-	-	-	-	-	-	U	-	-	U.		-	- '	No 72513
									ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	4	15'-0"	1 GREEN	4890 B25/B66	1	-	-		-	-	★ : No /2313
									ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU)	7/16"	3	15'-0"	1 GREEN	4478 B14	1	-	-		-	-	: ★
			100 pt 10 pp 100 200 pt 100						1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	1 GREEN	-	-	-	-		-	-	TO: STATE OF !
GAMMA (G2)	240°	246'-0"	ERICSSON	AIR6472 B77G B77M	1	H=36.3" x W=15.8" x D=7.4"	-	*		- (-1)	-	-	-	-	-	-	-		-	-	STATE OF :
									ROSENBERGER FIBER JUMPER (DC6)	3/8"	2	15'-0"	2 GREEN	-	-	-	-		-	-	ORIDA
GAMMA (G3)	240°	246'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.9" x W=19.6" x D=7.7"	_	-	ROSENBERGER SINGLE PAIR DC CABLE (DC6)	7/16"	1	15'-0"	2 GREEN	-	-	-	-		-		
GAIVIIVIA (G3)	240	240 -0"	CONTINISCOPE	07-806-PDVIVI	1	U=11.9 X AA=13.0 X D=1.1	_	-	- ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	4	15'-0"	3 GREEN	RRUS-32 B30	1		-		-		SONAL ENGLY
									ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU)	7/16"	2	15'-0"	3 GREEN	4490 B5/B12A	1				_	'	JULY 16. 2025
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	3 GREEN	-		_	-		_		JULY 10, 2025
GAMMA (G4)	-	-	-	-	-	-	- 6	-	-	-	-	-	-	-	-	-	-			-	MARC P. MAIER, PE
				TOTAL	9		•		TOTAL 1-5/8" COAX CABLES (INACTIVE)		24	6720'-0"		TOTAL	12	0	TOTAL	0 0	TOTAL	0	PROFESSIONAL ENGINEER LIC. # 1
					-				TOTAL FIBER JUMPERS		30	450'-0"									

18 270'-0"

60 600'-0"

840'-0"

TOTAL DC JUMPERS TOTAL 1/2" JUMPERS

TOTAL 5/16" RET CABLES

TOTAL 5/16" RET JUMPERS

* ANTENNA AND COAX INFORMATION PROVIDED FROM THE 5G NR/5G NR 1DR-1 RFDS ID #RFDS-37771, DATED 03/12/25

 * CONTRACTOR TO VERIFY RF INFO WITH CLIENT PRIOR TO CONSTRUCTION.

BOTTOM OF TOWER, AND INSIDE SHELTER ON MAIN COAX.

* ALL QUANTITIES GIVEN ARE TOTAL EXISTING AND PROPOSED

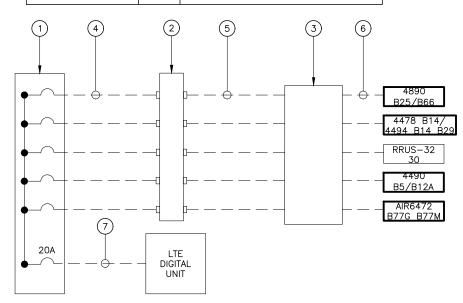
AT THE PORT AND AT THE ANTENNA.

* 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

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

ERICSSON RRU BREAKER REQUIREMENTS TECHNOLOGY ERICSSON RADIO BREAKER RRUS 32 B66 AWS (2100) WCS (2300) RRUS 32 B30 20 AMP PCS (1900) RRUS 32 B2 30 AMP VARIOUS BANDS (700 [B12] , 850 [B5], 1900 [B2], 2100 [B4]) RRUS 11 25 AMP RRUS12 + A2 25 AMP VARIOUS BANDS (850 [B5], 1900 [B2], 2100 [B4]) PCS (1900), AWS (2100) RRUS 4402 B66/B25 10 AMP RRII 4415 R25 25 AMP RRU 4415 B30 25 AMP 2300 RRU 4426 B66 30 AMP RRU 4455 15A AC 1900/2100 RRU 4478 B12 25 AMP 700 RRU 4478 B14 25 AMP 5 AMP RRU 4478 B5 RRUS E2 B29 25 AMP 700 (B29 Tx ONLY) RRUS 4449 B5/B12 2x25 AMP 700/850 RRUS 8843 B2/B66 1900/2100 2x30 AMP RRUS 4460 B2/B66 2x40 AMF 1900/2100 AIR6488 B48 35 AMP CBRS 3.55-3.7 GHz AIR6449 B77 50 AMP C BAND 3.3-4.2 GHz AIR6419 B77 50 AMP B77G DOD SUB BAND 3.4-3.6 GHz RRU8863 B77 50 AMP BAND 3.8-4.2 GHz DUAL AIR6464 BAND 3.4 GHz RADIO 4467 45 AMP N77 DUAL C-BAND 3.45 GHz RADIO 4490 50 AMP B5/B12 DUAL BAND 10A AC 15A DC RADIO 4408 3.45 GHz PICO RADIO RADIO 4890 50 AMP B2-B5/B66 B77G/B77M 6472 B77G/B77M 50 AMP 4471 B30 20 AMP B30 4494 B14/B29 35 AMP B14/B29



- 1. -48V DC POWER PLANT. CONTRACTOR TO VERIFY CORRECT BREAKER SIZE IS INSTALLED FOR EACH RRU PER CHART.
 2. (1) RACK MOUNTED RAYCAP DC SURGE PROTECTOR.
- 3. RAYCAP FIBER AND DC DISTRIBUTION UNIT TOWER MOUNTED.
- 4. #8 AWG SHIELDED CONDUCTORS.
- PROVIDE (2) 6-CONDUCTOR #6 AWG BUNDLES FOR DC POWER FROM RACK MOUNTED RAYCAP SURGE PROTECTION UNIT TO THE RAYCAP FIBER AND DISTRIBUTION UNIT ON TOWER.
- 6. DC CABLE ROUTED TO RRH UNITS.
- 7. #12 AWG SHIELDED CONDUCTORS (WR-VG122ST-BRDA).



						_
REV	DATE		DESC	RIPTIO	N	
Α	02/17/25	PREL	MINARY	CDs	REV	"A"
0	06/26/25	FINAL	. CDs I	SSUEC)	
1	07/16/25	MAST	EC RED	LINES		
2						
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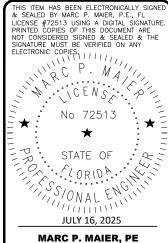
12150 RESEARCH PARKWAY ORLANDO, FL 32826



800 S. DOUGLAS ROAD 10TH FLOOR CORAL GABLES, FL 33134



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



FL PROFESSIONAL ENGINEER LIC. # 72513

I-10 AND I-75 FA #10143832

259 NORTHWEST SERENE COURT LAKE CITY, FL 32055

SHEET DESCRIPTION

ANTENNA ONE-LINE DIAGRAM

SHEET NUMBER

E-1

