



AMERICAN TOWER®

ATC SITE NAME: COTOPAXI II ATC SITE NUMBER: 370593

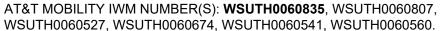
AT&T MOBILITY SITE NAME: COTOPAXI AT&T MOBILITY SITE ID: SICO001561

AT&T MOBILITY FA LOCATION CODE: 10547898

AT&T MOBILITY USID: 132303

SITE ADDRESS: 345 FREMONT COUNTY RD 012

COTOPAXI, CO 81223





LOCATION MAP

AT&T MOBILITY ANTENNA AMENDMENT PLAN COMPLIANCE CODE

WSUTH0060527, WSUTH0060674, WSUTH0060541, WSUTH0060560.

COMPLIANCE CODE	PROJECT	T SUMMARY	PROJECT DESCRIPTION		SHEET INDEX	<		l
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE		ADDRESS:	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO		COUNTY RD 012	TOWER WORK:	G-001	TITLE SHEET	0	06/26/25	RMJ
BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.	COTOPAXI, CO 81223		REMOVE (6) ANTENNA(S), (6) RRU(s), (3) TMA(s), (1) SQUID(S), (1) 0.39" (10mm) FIBER TRUNK(S), AND (6) 7/8" COAX CABLE(S).	G-002	GENERAL NOTES	0	06/26/25	RMJ
1. 2018 INTERNATIONAL BUILDING CODE (IBC)		C COORDINATES:	INSTALL (6) ANTENNA(S), (9) RRU(s), (3) BACK-TO-BACK PIPE MOUNT	C-001	OVERALL SITE PLAN	0	06/26/25	RMJ
2018 INTERNATIONAL ENERGY CONSERVATION CODE		DE: 38.37418	KIT(S), (6) MOUNTING PIPE(S), (3) BACK TO BACK RRU BRACKET(S), (1) SQUID(S), (1) HOISTING ANCHOR(S), (2) CABLE HOISTING	C-101	DETAILED SITE PLAN	0	06/26/25	RMJ
(IECC) 3. LOCAL BUILDING CODE		DE: -105.69099	GRIP(S),(1) 0.41" (10.3mm) FIBER TRUNK(S), (1) 0.96" (24.3mm) 6 AWG 6 DC POWER TRUNK(S), AND (1) 2" CARFLEX NON-METALLIC	C-102	DETAILED EQUIPMENT LAYOUT	0	06/26/25	RMJ
CITY/COUNTY ORDINANCES	GROUND ELEV	ATION: 6,423' AMSL	CONDUIT(S).			-		
	ZONING II	NFORMATION:	EXISTING (2) 0.88" (22.4mm) 8 AWG 6 DC POWER TRUNK(S) AND (2) 2" CARFLEX NON-METALLIC CONDUIT(S) TO REMAIN.	C-201	TOWER ELEVATION	0	06/26/25	RMJ
	JURISDICTION:	FREMONT COUNTY	(2) 2 CARFLEX NON-METALLIC CONDUTT(S) TO REMAIN. GROUND WORK:	C-401	ANTENNA INSTALLATION	0	06/26/25	RMJ
	PARCEL ID: R033491		REMOVE (1) ALPHA STD 1430A +24VDC PLANT(S), (1) BATTERY	C-402	ANTENNA SCHEDULE	0	06/26/25	RMJ
	PROJECT TEAM TOWER OWNER: APPLICANT:	OT TEAN	RACK(S), (6) 24-48/2KW CONVERTER(S), (9) 24-3.6KW RECTIFIER(S), (3) 15A LTE 700 DC BREAKER(S), (3) 20A LTE 2100 DC BREAKER(S),	C-501	CONSTRUCTION DETAILS	0	06/26/25	RMJ
		(1) 20A LTE BBU DC BREAKER(S), AND (1) 5A SMMI DC BREAKER(S).	E-101	ELECTRICAL PANELS	0	06/26/25	RMJ	
		APPLICANT:	INSTALL (1) VERTIV NETSURE 7100 -48VDC/-58VDC POWER PLANT(S), (1) VERTIV CONVERTER FOR LEGACY +24VDC LOAD(S), (8) HE 2KW	E-102	ONE-LINE DIAGRAM	0	06/26/25	RMJ
	AMERICAN TOWER	AT&T MOBILITY	-48VDC RECTIFIER(S), (4) GS PORTALAC PYL12V185FT BATTERY(IES), (2) 6651 BBU(s), (1) 6672 BBU(s), (1) 6601 SITE CONTROLLER(S),	E-103	GROUNDING PLANS	0	06/26/25	RMJ
	10 PRESIDENTIAL WAY WOBURN, MA 01801		(1) FIBER SLACK BOX(ES), (3) 35A 4494 B14/B29 DC BREAKER(S),	E-501	GROUNDING DETAILS	0	06/26/25	RMJ
UTILITY COMPANIES			(3) 50A 4890 B25/B66 DC BREAKER(S), (3) 50A 4490 B5/B12A DC BREAKER(S), (2) 15A 6651 BBU DC BREAKER(S), (1) 15A 6672 BBU DC			0	00/20/25	RIVIJ
UTILITY COMPANIES	ENGINEER:	PROPERTY OWNER:	BREAKER(S), AND (1) 25A 6601 SITE CONTROLLER DC BREAKER(S).	R-601 - R-610	SUPPLEMENTAL			
POWER COMPANY: SANGRE DE CRISTO ELECTRIC ASSOC PHONE: (719) 395-2412	TEP	COTOPAXI CONSOLIDATED	PROJECT NOTES					
TELEPHONE COMPANY: CENTURYLINK	326 TRYON RD	SCHOOLS P O BOX 10	THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A					
PHONE: (800) 244-1111	RALEIGH, NC 27603	COTOPAXI, CO 81223-0010	MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.					
000	PROJECT LOCA	TION DIRECTIONS	THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.					
811 .			4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.					+
	FROM COTOPAXI TAKE CR 12 TO THE NORTH, GO PAST THE RAILROAD TRACKS AND THE SCHOOLS. ONCE PAST		HANDICAP ACCESS IS NOT REQUIRED. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN					
	THE SCHOOL ON THE LEF	T THERE IS A GRAVEL ROAD	ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED					+
Know what's below.		TAKE THAT TO THE SITE IN THE THE SCHOOL.	REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE					
Call before you dig.			COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL					
Call sololo jou algi			CHANGE UNDER CFR § 1.61000 (B)(7).					





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REV.	DESCRIPTION	BY	DATE
A.	PRELIMINARY	<u>APM</u>	05/29/25
△.	100% CONSTRUCTION	RMJ	06/26/25
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SITE ADDRESS: 345 FREMONT COUNTY RD 012 COTOPAXI, CO 81223





	DATE DRAWN:	06/26/25
П	ATC JOB NO:	15312118
П	CUSTOMER NAME:	COTOPAXI
П	CUSTOMER ID:	SICO001561
ı		·

TITLE SHEET

G-001

REVISION:

GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, AT&T MOBILITY "THE COMPANY" WILL PROVIDE AND THE 22. CONTRACTOR WILL INSTALL
- A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
- B. AC/TELCO INTERFACE BOX (PPC)
- C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
- D. TOWERS, MONOPOLES
- E. TOWER LIGHTING
- F. GENERATORS & LIQUID PROPANE TANK
- G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
- H. ANTENNAS (INSTALLED BY OTHERS)
- I. TRANSMISSION LINE
- J. TRANSMISSION LINE JUMPERS
- K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
- L. TRANSMISSION LINE GROUND KITS
- M. HANGERS
- N. HOISTING GRIPS
- O. BTS EQUIPMENT
- 2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROO(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF AT&T MOBILITY TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
- 4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- 7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS
- 8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS. FTC.
- 11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- 12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T MOBILITY REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T MOBILITY REP PRIOR TO
- 13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T MOBILITY REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- 14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T MOBILITY CONSTRUCTION MANAGER.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- 16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY REP AND ENGINEER OF RECORD MATCHATELY.
- 17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- 18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- 20. CONTRACTOR SHALL FURNISH AT&T MOBILITY AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WOOD!
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL

ALL ITEMS PROVIDED.

- 22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MOBILITY MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T MOBILITY SPECIFICATIONS AND REQUIREMENTS.
- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T MOBILITY SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN.
 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION
 MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR
 COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 27. CONTRACTOR SHALL NOTIFY AT&T MOBILITY REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
- 28. WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
- COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFFTY CI IMB.
- 30. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
- 31. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
- 32. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE ATA MOBILITY REP. ANY WORK FOUND BY THE AT&T MOBILITY REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
- 33. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
- 34. AT&T MOBILITY FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T MOBILITY WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP
- 35. AT&T MOBILITY OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- WORK INCLUDED:
 - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.
 - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND AT&T MOBILITY SPECIFICATIONS
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.

- F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS, WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
- G. ANTENNA AND COAXIAL CABLE GROUNDING:
- ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
- ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE
CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC
ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN.
FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR
ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR
APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE
RESPONSIBILITY OF THE GENERAL CONTRACTOR.



LANS PREPARED BY:



326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net

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SEAL:

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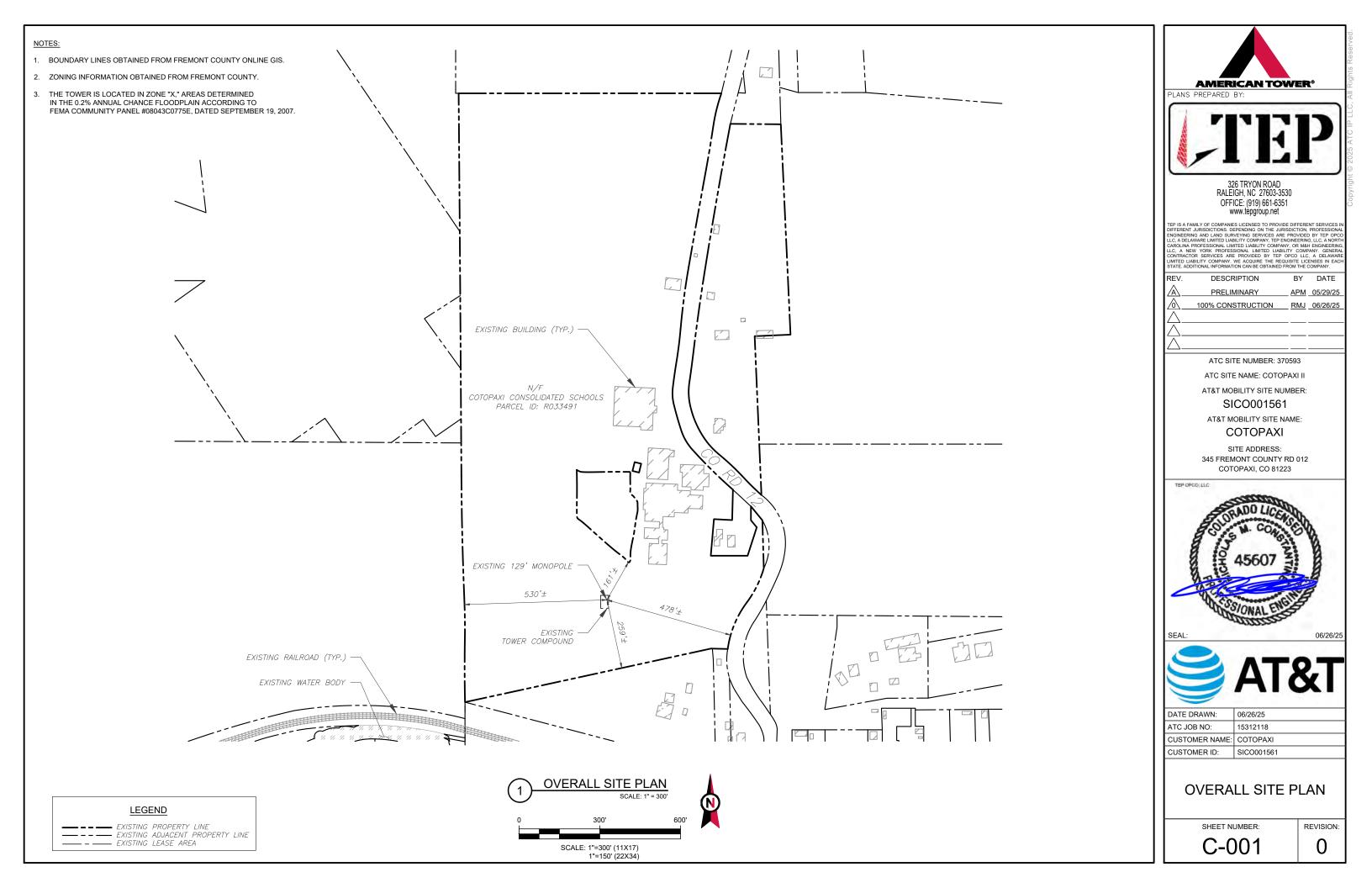
GENERAL NOTES

SHEET NUMBER:

OWIDEIX.

G-002

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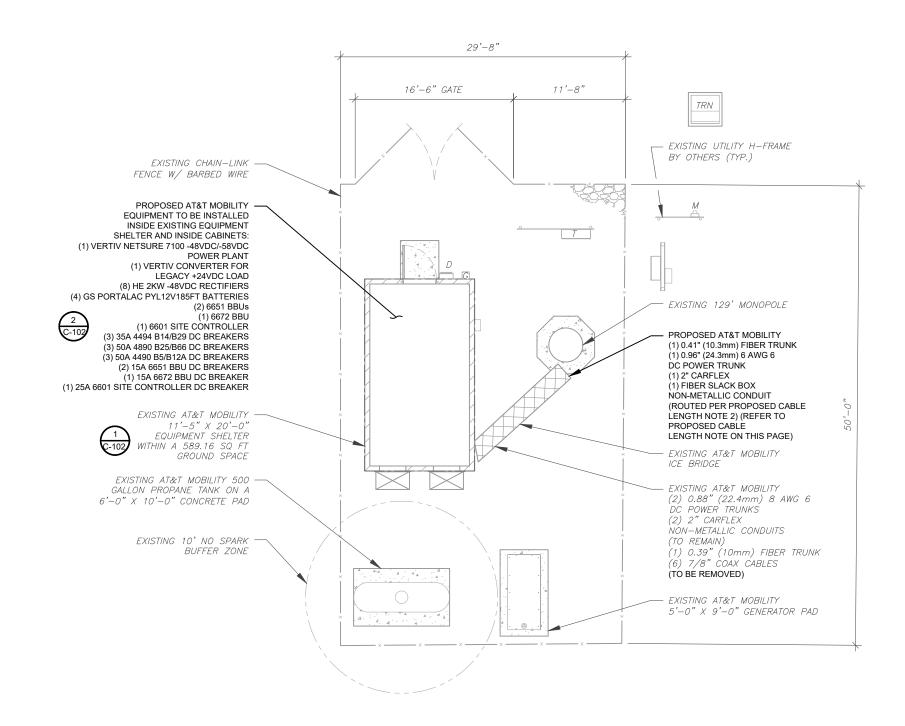
SITE PLAN NOTES:

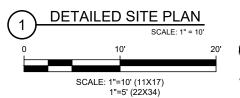
- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN BEFORE LITHIZING EXISTING CABLE SUPPORTS. COAX PORTS. INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

	LEGEND
8	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
В	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
×	CHAINLINK FENCE

PROPOSED CABLE NOTES:

- ESTIMATED LENGTH OF PROPOSED CABLE IS 160'. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES LISING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.









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TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCC LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENDINEERING LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, GENERAL CONTRACTOR SERVICES ARE PROVIDED BY EP OPCOL LLC, A DELAWARE LIMITED LIABILITY COMPANY, GENERAL STATE, ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

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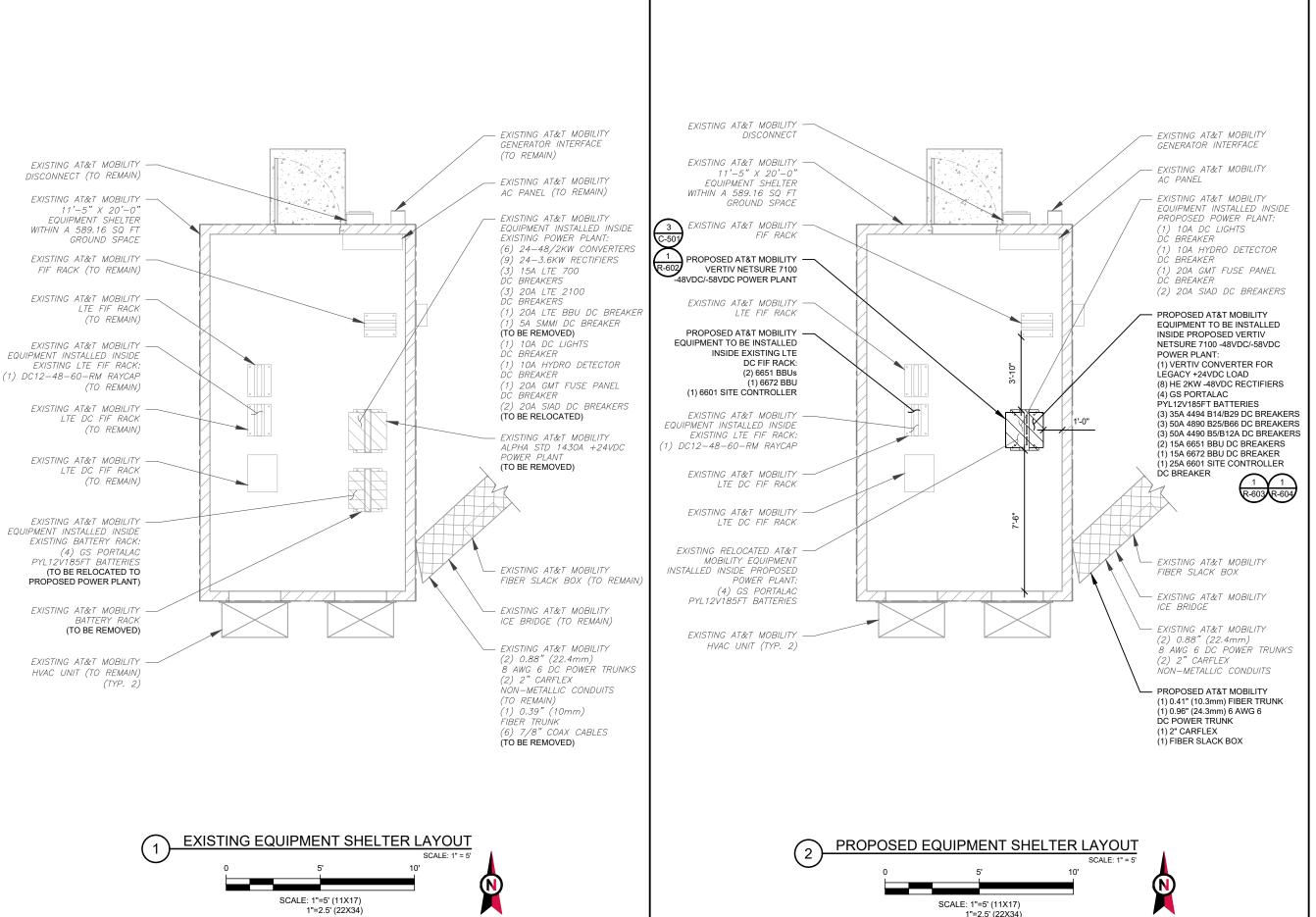
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DETAILED SITE PLAN

SHEET NUMBER:

C-101

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P IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICE FERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIO IFFERENT JURISDICTIONS, DEPENDING ON THE JURISDICTION, PROFESSIONAI MONIBERRING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPC. IC., A DELAWARE LIMITED LUBILITY COMPANY, TEP FAIGNEERING, LLC, A NORTH ARCOLLINA PROFESSIONAL LIMITED LIBILITY COMPANY, GR MAIR HENSINEERING LC, A NEW YORK PROFESSIONAL LIMITED LIBILITY COMPANY, GREAT MAIR CONTRACTOR SERVICES ARE PROVIDED IS THE POOP LLC, A DELAWARE MITTED LABILITY COMPANY, WE ACCURE THE PROVIDED IS THE POOP LICE, A DELAWARE THE ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

ı	REV.	DESCRIPTION	BY	DATE
ı	A.	PRELIMINARY	APM	05/29/25
l	\wedge	100% CONSTRUCTION	RMJ	06/26/25
l	$\overline{\wedge}$			
l	$\overline{\wedge}$			
	<u>~</u> .			

ATC SITE NUMBER: 370593

ATC SITE NAME: COTOPAXI II

AT&T MOBILITY SITE NUMBER:

SICO001561

AT&T MOBILITY SITE NAME: COTOPAXI

SITE ADDRESS:

345 FREMONT COUNTY RD 012 COTOPAXI, CO 81223





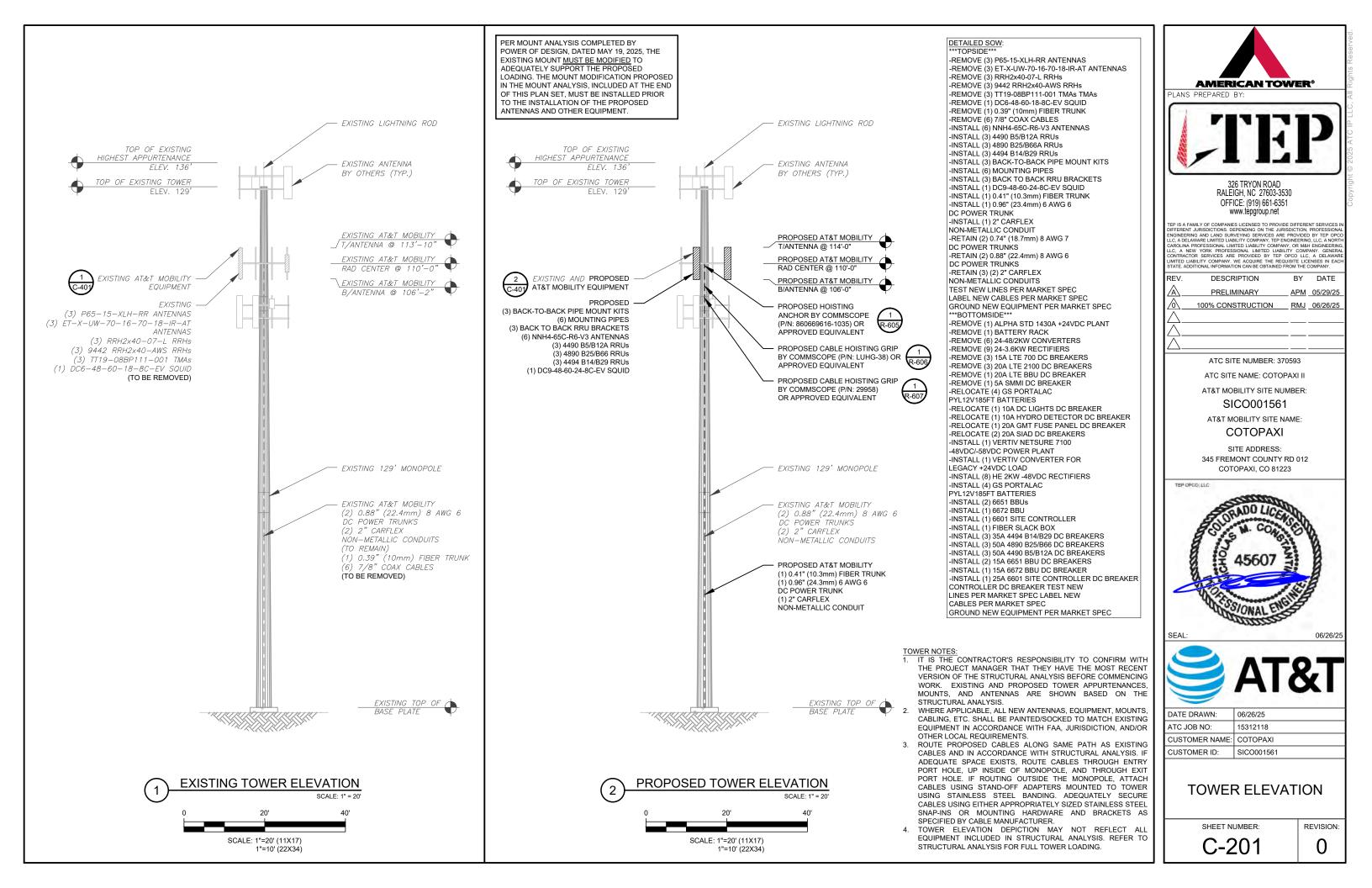
DATE DRAWN:	06/26/25
ATC JOB NO:	15312118
CUSTOMER NAME:	COTOPAXI
CUSTOMER ID:	SICO001561

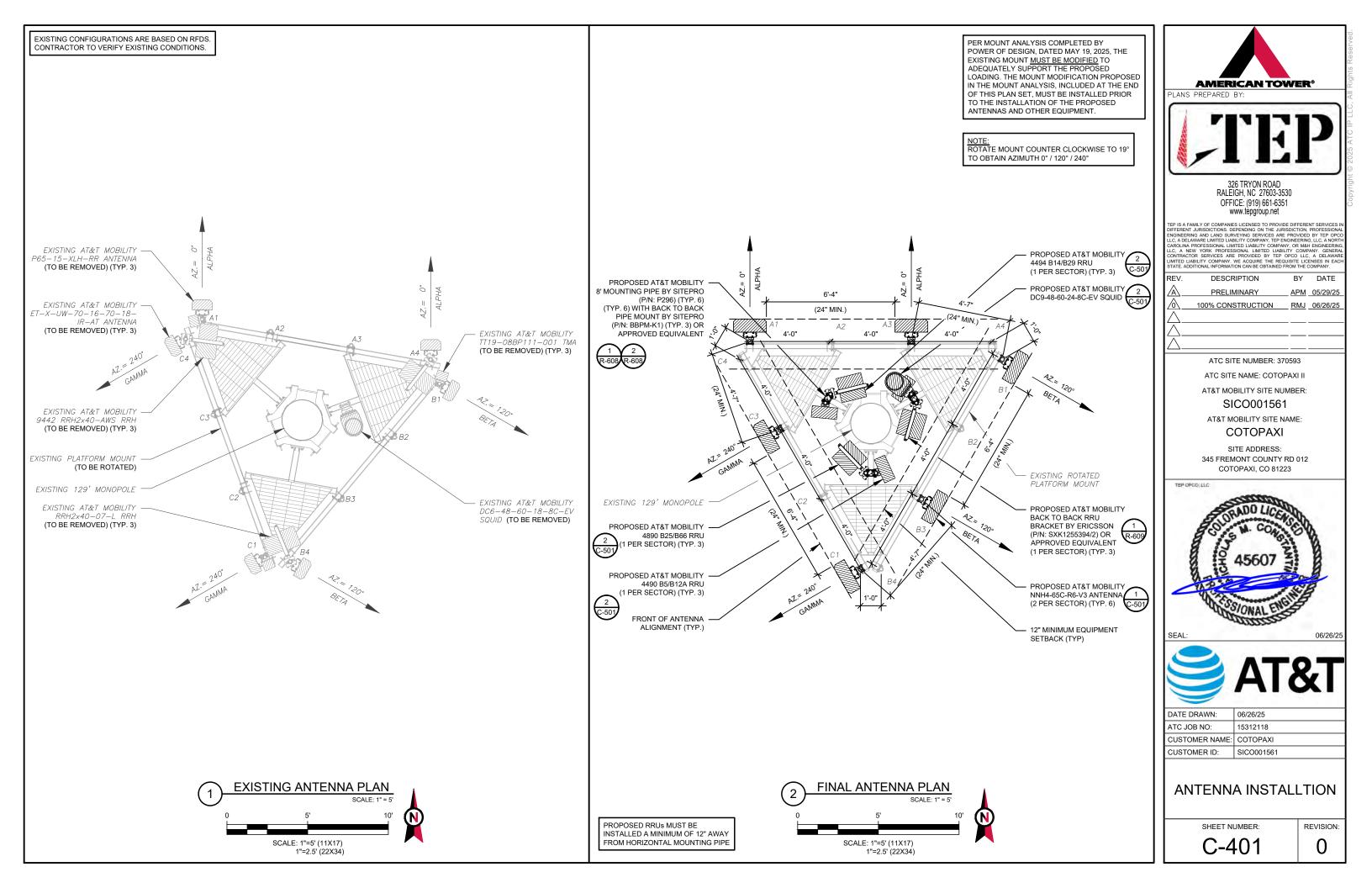
DETAILED EQUIPMENT LAYOUT

SHEET NUMBER:

C-102

0





EXISTING ANTENNA SCHEDULE							NOTES				Г	FINAL ANTENNA SCHEDULE														
		ANTENNA S	SUMMARY			NON ANTENNA SUMMAI	RY	. GC TO VERIFY THE FINAL RFDS	LO	CATION			ANT	ENNA SUMMARY			NON ANTENNA SUM	MARY								
AZ	POS	ANTENNA	BAND	MECH. D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY	SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH. D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS								
	A1	P65-15-XLH-RR	_	_	RMV	(1) TT19-08BP111-001	RMV	DISCREPANCY PRIOR TO																		
	A2	-	_	_	-	-	-					A1	NNH4-65C-R6-V3	-	-	ADD	(1) 4490 B5/B12A	ADD								
0°	A3	-	_	-	-	1	-	B. CONFIRM SPACING OF PROPOSED				A2	-	-	-	-	=	-								
	A4	ET-X-UW-70-16-70-18-IR-AT	-	_	RMV	(1) 9442 RRH2X40-AWS (1) RRH2X40-07-L	RMV RMV	CONFLICTS NOR IMPEDE TOWER	ALPHA	110'	10' 0°	А3	NNH4-65C-R6-V3	-	-	ADD	(1) 4890 B25/B66 (1) 4494 B14/B29	ADD ADD								
	R1	P65-15-XI H-RR	_	_	RMV	(1) TT19-08BP111-001	RMV	THE ANTENNA ORIENTATION PLAN				A4	-	-	-	-	-	-								
		1 00 10 111111				()						B1	NNH4-65C-R6-V3	-	-	ADD	(1) 4490 B5/B12A	ADD								
120°		-		_	-	_	-	CONDITIONS INCLUDING, BUT NOT				B2	-	-	-	-	-	-								
		ET Y I IIW 70 16 70 18 IP AT			- DM\/	- (1) 9442 RRH2X40-AWS	- RMV	MOUNT CONFIGURATIONS AND	BETA	BETA	BETA	BETA	BETA	BETA	BETA	BETA 1	TA 110'	110' 120°	120°	В3	NNH4-65C-R6-V3	-	-	ADD	(1) 4890 B25/B66 (1) 4494 B14/B29	ADD ADD
	D4	E1-X-0W-70-10-70-18-IR-A1			TXIVI V	(1) RRH2X40-07-L	RMV	SHOWN ARE FOR REFERENCE				B4	-	-	-	-	-	-								
	C1	P65-15-XLH-RR	_	_	RMV	(1) TT19-08BP111-001	RMV	ONLY AND EXISTING DIMENSIONS				C1	NNH4-65C-R6-V3	-	-	ADD	(1) 4490 B5/B12A	ADD								
	C2	_	_	-	_	-	_					C2	-	-	-	-	-	-								
240°	C3	_	_	_	-	Ī	_	EXISTING CONDITIONS PRIOR TO	GAMMA	110'	240°	-00	NNUL 050 B0 1/0			400	(1) 4890 B25/B66	ADD								
	C4	ET-X-UW-70-16-70-18-IR-AT	-	_	RMV	(1) 9442 RRH2X40-AWS (1) RRH2X40-07-L	RMV RMV	OF ANY DISCREPANCIES.						<u> </u>	-		(1) 4494 B14/B29	ADD								
	0°	0°	AZ POS ANTENNA A1 P65-15-XLH-RR A2 - A3 - A4 ET-X-UW-70-16-70-18-IR-AT B1 P65-15-XLH-RR B2 - B3 - B4 ET-X-UW-70-16-70-18-IR-AT C1 P65-15-XLH-RR C2 - C3 - C3 -	A1 P65-15-XLH-RR — A2 — — — — A3 — — — — A4 ET-X-UW-70-16-70-18-IR-AT — B1 P65-15-XLH-RR — — B3 — — — — B4 ET-X-UW-70-16-70-18-IR-AT — C1 P65-15-XLH-RR — — C2 — — — — — 240° C3 — — — —	AZ POS ANTENNA BAND MECH. D-TILT A1 P65-15-XLH-RR	AZ POS ANTENNA BAND MECH. D-TILT STATUS A1 P65-15-XLH-RR — RMV A2 — — — — — A3 — — — — — A4 ET-X-UW-70-16-70-18-IR-AT — RMV B1 P65-15-XLH-RR — — RMV B2 — — — — — B3 — — — — — B4 ET-X-UW-70-16-70-18-IR-AT — RMV C1 P65-15-XLH-RR — RMV C2 — — — — — C3 — — — — — — — — — — — — — — — — — — —	AZ POS ANTENNA BAND MECH. D-TILT STATUS ADDITIONAL TOWER MOUNTED EQUIPMENT A1 P65-15-XLH-RR - RMV (1) TT19-08BP111-001 A2	AZ POS ANTENNA BAND MECH. D-TILT STATUS ADDITIONAL TOWER MOUNTED EQUIPMENT STATUS A1 P65-15-XLH-RR - RMV (1) TT19-08BP111-001 RMV A2	AZ POS ANTENNA BAND MECH. D-TILT STATUS EQUIPMENT STATUS EQUIPMENT STATUS EQUIPMENT STATUS EQUIPMENT STATUS EQUIPMENT STATUS EQUIPMENT STATUS CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT. A1 P65-15-XLH-RR RMV (1) TT19-08BP111-001 RMV DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT. B1 P65-15-XLH-RR RMV (1) RRH2X40-07-L RMV CONFILCTS NOR IMPEDE TOWER CLIMBING PEGS. B2	AZ POS ANTENNA BAND MECH. D-TILT STATUS ADDITIONAL TOWER MOUNTED EQUIPMENT STATUS EQUIPMENT STATUS EQUIPMENT STATUS EQUIPMENT STATUS CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO NOTIFY ATC ON PANY DISCREPANCY PRIOR TO NOTIFY ATC OF ANY DISCREPANCY PRIOR TO NOTIFY ATC ON PANY DISCREPANCIES.	AZ POS ANTENNA BAND MECH. D-TILT STATUS ADDITIONAL TOWER MOUNTED EQUIPMENT STATUS EQUIPMENT STATUS CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT. A1 P65-15-XLH-RR - RMV (1) TT19-08BP111-001 RMV DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT. C1 P65-15-XLH-RR - RMV (1) P442 RRH2X40-AWS (1) RRH2X40-07-L RMV (1) RRH2	AZ POS ANTENNA BAND MECH. D-TILT STATUS ADDITIONAL TOWER MOUNTED EQUIPMENT STATUS (CONSTRUCTION DRAWNINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT. A1 P65-15-XLH-RR RMV (1) TT19-08BP111-001 RMV DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT. C0 A3	AZ POS ANTENNA BAND MECH. D-TILT STATUS ADDITIONAL TOWER MOUNTED EQUIPMENT STATUS CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO NOTIFY ATC PM OF ANY DISCREPANCES.	AZ POS ANTENNA BAND MECH. D-TILT STATUS ADDITIONAL TOWER MOUNTED EQUIPMENT STATUS EQUIPMENT STATUS CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO NOTIFY ATC PM OF ANY DISCREPANCIES. 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D-TILT STATUS ADDITIONAL TOWER MOUNTED EQUIPMENT STATUS AT P65-15-XLH-RR RMV (1) TT19-08BP111-001 RMV DISCREPANCY PRIOR TO INSTALLINIS THE EQUIPMENT. 2. GC TO CAP ALL UNUSED PORTS: AZ	AZ POS ANTENNA BAND MECH. D-TILT STATUS ADDITIONAL TOWER MOUNTED EQUIPMENT STATUS AT P65-15-XLH-RR RMV (1)TT19-08BP111-001 RMV AZ RMV (1)TT19-08BP111-001 RMV AZ ET-X-UW-70-16-70-18-IR-AT RMV (1)TT19-08BP111-001 RMV BZ	AZ POS ANTENNA BAND MECH. D-TILT STATUS DECLORAGE MOUNTED EQUIPMENT STATUS AT P65-15-XLH-RR	AZ POS ANTENNA BAND MECH. D-TILT STATUS ADDITIONAL TOWER MOUNTED EQUIPMENT STATUS CONSTRUCTION DEAWNINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCES. GO TO ALIES THE FINAL CONSTRUCTION DEALWRINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCES. GO TO ALIES THE FINAL CONSTRUCTION DEALWRINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCES. GO TO ALIES THE FINAL CONSTRUCTION DEALWRINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCES. GO TO ALIES THE FINAL CONSTRUCTION DEALWRINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCES. 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STATUS ABBREVIATIONS
RMV: TO BE REMOVED

RMN: TO BE REMOVED

RMN: TO REMAIN

REL: TO BE RELOCATED

ADD: TO BE ADDED

FIRSTNET REQUIREMENTS.

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15' RRU TO ANTENNA: 10'

EXISTING FIBER DISTRIBUTION	N/SQUID	EXISTING CABLING SUMMARY						
MODEL NUMBER	STATUS	COAX/CONDUIT	DC/CONTROL/RET	FIBER	STATUS			
(1) DC6-48-60-18-8C-EV	RMV	(2) 2" CONDUIT	(2) 0.88" (22.4mm) 8 AWG 6	_	RMN			
-	-	(6) 7/8"	_	(1) 0.39" (10mm)	RMV			



FINAL FIBER DISTRIBUTION/	SQUID	FINAL CABLING SUMMARY						
MODEL NUMBER	STATUS	COAX/RET	DC/CONTROL	FIBER	STATUS			
-	-	(2) 2" CONDUIT	(2) 0.88" (22.4mm) 8 AWG 6	-	RMN			
(1) DC9-48-60-24-8C-EV	ADD	(1) 2" CONDUIT	(1) 0.96" (24.3mm)	(1) 0.41" (10.3mm)	ADD			



ANS PREPARED BY:



326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO. LIC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LIC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENGINEERING, LIC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENGINEERING, CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LIC, A DELAWARE LIMITED LIABILITY COMPANY, WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

TE
9/25
6/25

ATC SITE NUMBER: 370593

ATC SITE NAME: COTOPAXI II

AT&T MOBILITY SITE NUMBER:

SICO001561

AT&T MOBILITY SITE NAME: COTOPAXI

SITE ADDRESS:

345 FREMONT COUNTY RD 012 COTOPAXI, CO 81223

TEP OPCO: LLC



EAL:

06/26



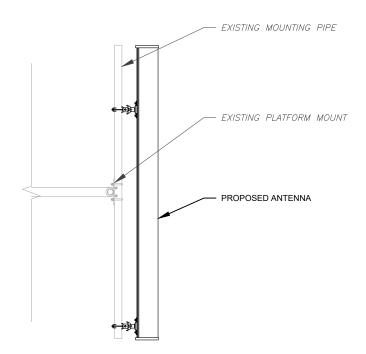
DATE DRAWN:	06/26/25
ATC JOB NO:	15312118
CUSTOMER NAME:	COTOPAXI
CUSTOMER ID:	SICO001561

ANTENNA SCHEDULE

SHEET NUMBER:

C-402

0



PROPOSED ANTENNA MOUNTING DETAIL

PROPOSED RRU (TYP.)

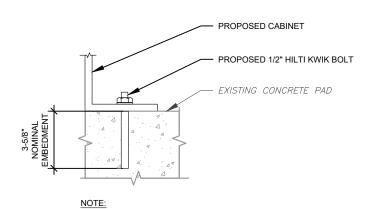
PROPOSED
BACK TO BACK RRU BRACKET

PROPOSED MOUNTING PIPE (TYP.)

PROPOSED SQUID

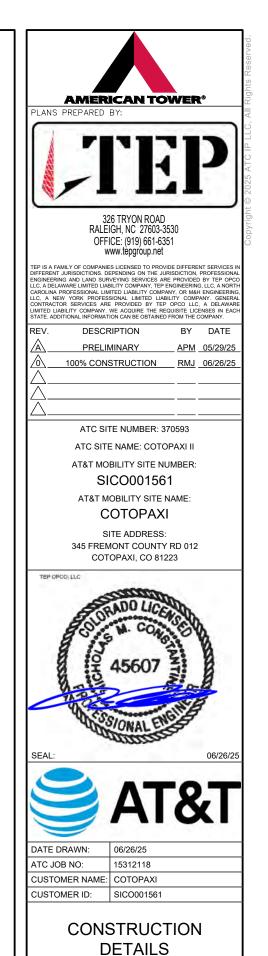
PROPOSED SQUID & RRU MOUNTING DETAIL

SCALE: N.T.S.



INSTALL HILTI KWIK BOLT ANCHORS STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.US.HILTI.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.





SHEET NUMBER:

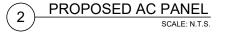
C-501

REVISION:

						OWER PAN OLTS, 1-PH	the state of the s		Α		
	MA	N BRE	AKER RA	TING (A):	20			TEM VO		(V):	240
DESCRIPTION VA c/nc BKR POSN					L1	L2	POSN	POSN BKR	c/nc	VA	DESCRIPTION
RECTIFIER 1	140	C	40/2	1	3390		2	60/2	C	3250	HVAC #1
RECTIFIER I	140	С	4012	3		3390	4	00/2	C	3250	TIVAC #1
RECTIFIER 2	140	C	40/2	5	3390		6	60/2	C	3250	HVAC #2
REGIII IER 2	140	C	4012	7		3390	8	0012	C	3250	TIVAC #2
RECTIFIER 3	140	C	40/2	9	140		10	15/2	С	0	POWER FAIL RELAY
KEOTII IEK 3	140	C	4012	11		140	12		C	0	TOWERTAIL RELAT
RECTIFIER 4	140	С	40/2	13	860		14	20/1	nc	720	DUPLEX / QUAD RECEPT COORD REEL RECEPT
REOM IERC4	140	C	4012	15		1040	16	20/1	nc	900	INTERIOR / EMERGENCY LIGHTS
RECTIFIER 5	140	C	40/2	17	440		18	20/1	nc	300	EXTERIOR LIGHT
KEO III IEK 3	140	C	4012	19		140	20	40/2	nc	0	SPARE / OFF
RECTIFIER 6	140	c	40/2	21	140		22	4012	nc	0	OF ARE TO IT
KEOTII IEKO	140	C	4012	23		140	24	40/2	nc	0	SPARE / OFF
RECTIFIER 7	140	C	40/2	25	140		26	4012	nc	0	OF ARE FOLL
KEOTII IEK I	140	C	4012	27		140	28	40/2	nc	0	SPARE / OFF
RECTIFIER 8	140	C	40/2	29	140		30	4012	nc	0	OF TAKE TO IT
KEG III IEK G	140	C	4012	31		140	32	40/2	nc	0	SPARE / OFF
RECTIFIER 9	140	C	40/2	33	140		34	4012	nc	0	OFARE FOR
1177 17 17 17 1	140	C		35		140	36	40/2	nc	0	SPARE / OFF
GENERATOR	1650	nc	20/1	37	1650		38	4012	nc	0	of Mile 7 of 1
BLANK				39		0	40	40/2	nc	0	SPARE / OFF
GFCI RECEPTACLE	180	nc	20/1	41	180		42	TOIL	nc	0	OF METOT
			SE TOTA		10610 88	8660					
PHASE TOTALS (A):						72					
CURRENT PER PHASE W/ 125% Continuous Loads (A):							Amperes/	ohase car	not ex		reaker rating
PANEL TOTAL (VA):						70	Legend: c = continuous, nc = non-continuous				

1	EXISTING AC PANEL
$\bigcup_{i} \mathcal{I}_{i}$	SCALE: N.T.S.

						WER PANE OLTS, 1-PI			A		
8. T./T.A.T.T.	MAI	ING (A):	20	0	SYSTEM VOLTAGE (V)				240		
DESCRIPTION VA c/nc BKR POSN					L1	L2	POSN				DESCRIPTION
VERTIV RECTIFIER 1&2	1360	C	40/2	1	4610		2	60/2	C	3250	HVAC #1
VERTIV RECTIFIER 182	1360	C	40/2	3		4610	4	00/2	C	3250	IIVAC#I
VERTIV RECTIFIER 3&4	1360	C	40/2	5	4610		6	60/2	C	3250	HVAC #2
VERTIV RECTIFIER 36.4	1360	C	4012	7		4610	8	00/2	C	3250	110/10/112
VERTIV RECTIFIER 5&6	1360	C	40/2	9	1360		10	15/2	C	0	POWER FAIL RELAY
VERTIVICE THIER 300	1360	C	4012	11		1360	12		C	0	
VERTIV RECTIFIER 7&8	1360	C	40/2	13	2080		14	20/1	nc	720	DUPLEX / QUAD RECEPT COORD REEL RECEPT
VERTIVICE THIER TOO	1360	C	4012	15		2260	16	20/1	nc	900	INTERIOR / EMERGENCY LIGHTS
SPARE / OFF	0	nc	40/2	17	300		18	20/1 - 40/2 - 40/2	nc	300	EXTERIOR LIGHT
STARLETOTT	0	nc	7072	19		0	20		nc	0	SPARE / OFF
SPARE / OFF	0	nc	40/2	21	0		22		nc	0	J. T. T. C.
STARLETOTT	0	nc	4012	23		0	24		nc	0	SPARE / OFF
SPARE / OFF	0	nc	40/2	25	0		26	40/2	nc	0	OF PIRE / OF I
STANLIGHT	0	nc	4012	27		0	28	40/2	nc	0	SPARE / OFF
SPARE / OFF	0	nc	40/2	29	0		30	40/2	nc	0	OF THE FORT
STARLET STI	0	nc	4012	31		0	32	40/2	nc	0	SPARE / OFF
SPARE / OFF	0	nc	40/2	33	0		34	10/2	nc	0	STARLET STE
	0	nc		35		0	36	40/2	nc	0	SPARE / OFF
GENERATOR	1650	nc	20/1	37	1650		38		nc	0	5171127 511
BLANK				39		0	40	40/2	nc	0	SPARE / OFF
GFCI RECEPTACLE	180	nc	20/1	41	180		42	75.2	nc	0	37782737
			SE TOTAL		14790	12840					
			ASE TOTA		123	107	0				1-0-2
CURRENT PER PH	ASE W/ 12!				148		32 Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA): PANEL TOTAL W/ 125% Continuous Loads (VA):					276	30	Legend: c = continuous, nc = non-continuous				







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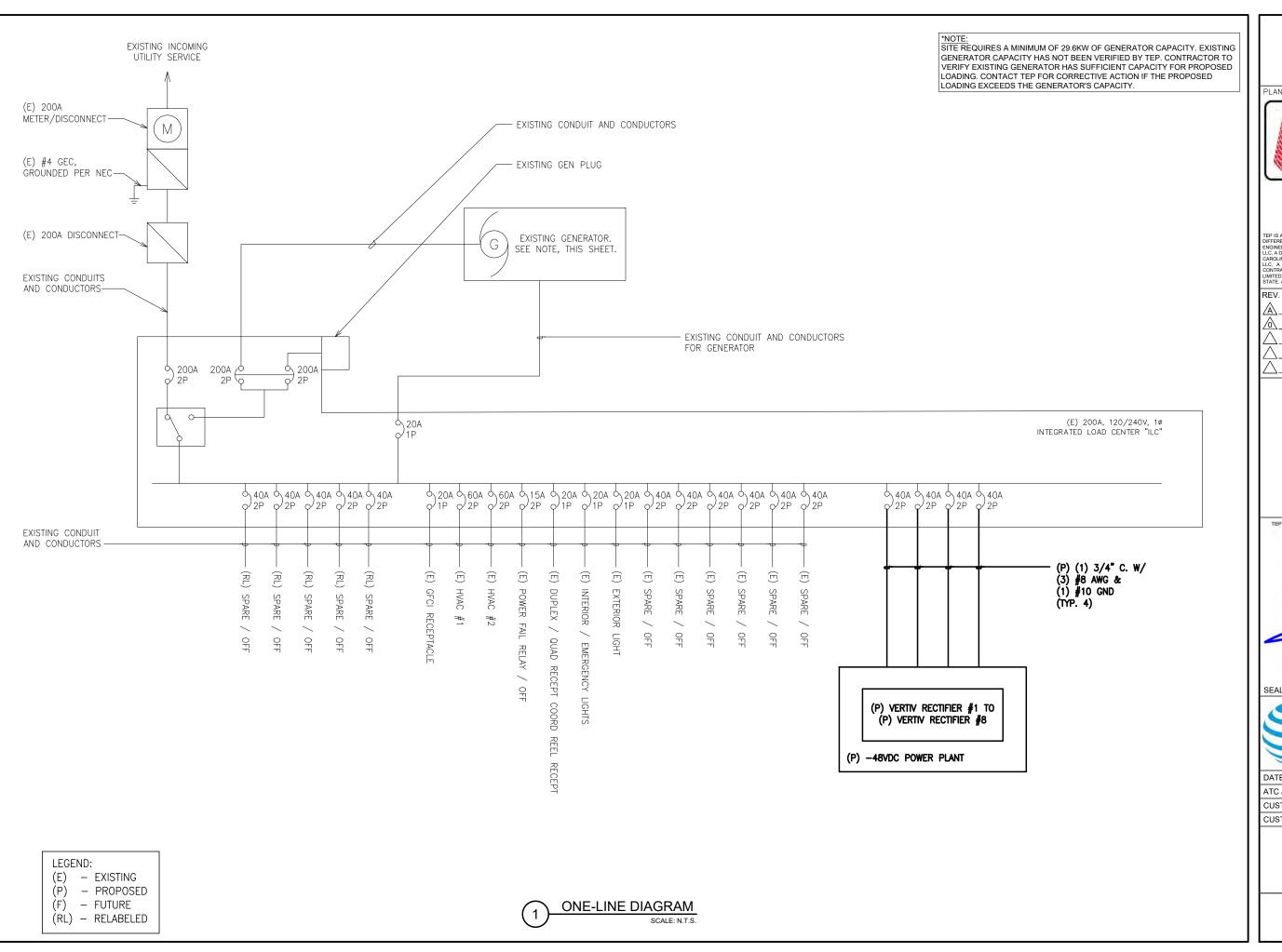


ı	DATE DRAWN:	06/26/25
ı	ATC JOB NO:	15312118
l	CUSTOMER NAME:	COTOPAXI
l	CUSTOMER ID:	SICO001561

ELECTRICAL PANELS

SHEET NUMBER:

E-101





LANS PREPARED BY:



326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net

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REV.	DESCRIPTION	BY	DATE
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SITE ADDRESS: 345 FREMONT COUNTY RD 012 COTOPAXI, CO 81223

TEP OPCO; LLC



SEAL:

06/26/



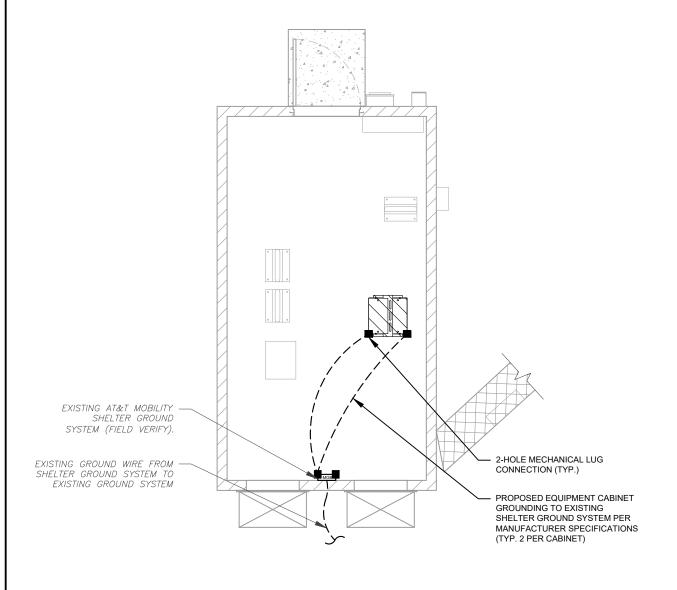
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CUSTOMER NAME:	COTOPAXI
CUSTOMER ID:	SICO001561

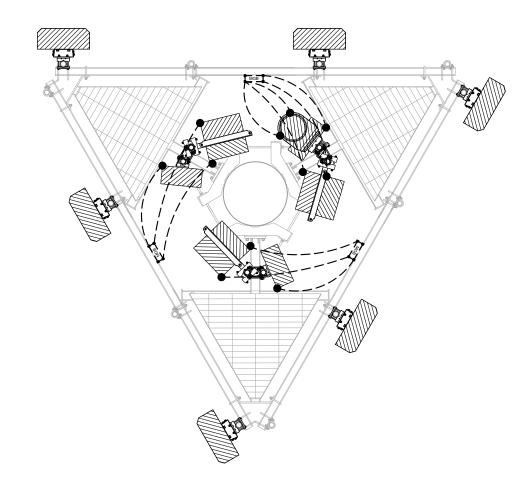
ONE-LINE DIAGRAM

SHEET NUMBER:

REVISION:

E-102

















326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tèpgroup.net

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REV.	DESCRIPTION	BY	DATE
\mathbb{A}_{-}	PRELIMINARY	APM	05/29/25
\wedge _	100% CONSTRUCTION	RMJ	06/26/25
$\overline{\wedge}$			
$\overline{\wedge}$			
$\overline{\wedge}$			

ATC SITE NUMBER: 370593

ATC SITE NAME: COTOPAXI II

AT&T MOBILITY SITE NUMBER:

SICO001561

AT&T MOBILITY SITE NAME:

COTOPAXI

SITE ADDRESS: 345 FREMONT COUNTY RD 012 COTOPAXI, CO 81223



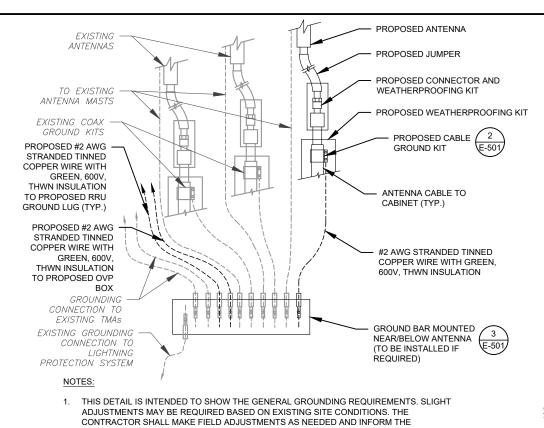


Ш	DATE DRAWN:	06/26/25
	ATC JOB NO:	15312118
Ш	CUSTOMER NAME:	COTOPAXI
	CUSTOMER ID:	SICO001561
		ATC JOB NO: CUSTOMER NAME:

GROUNDING PLANS

SHEET NUMBER:

REVISION: E-103



2. SITE GROUNDING SHALL COMPLY WITH AT&T MOBILITY GROUNDING STANDARDS, LATEST

GOVERN.
TYPICAL ANTENNA GROUNDING DIAGRAM

EDITION, AND COMPLY WITH AT&T MOBILITY GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL

TO EQUIPMENT

<u>GROUND KIT NOTES:</u>

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

TO ANTENNA

 \bigcirc

2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

ANTENNA CABLE 2 1/2"Ø MAX

GROUNDING KIT PER CABLE

#2 AWG STRANDED TINNED

(GROUNDED TO GROUND BAR)

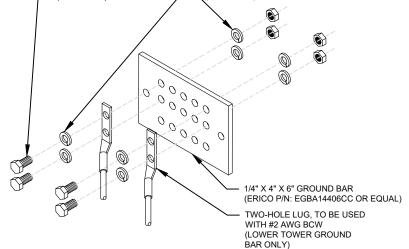
COPPER GROUND WIRE

TO GROUND BAR

(ANDREW OR APPROVED EQUAL)

MANUFACTURER'S RECOMMENDATIONS

CABLE GROUND KIT CONNECTION DETAIL



3/8" SS LOCK WASHER

(EACH SIDE)

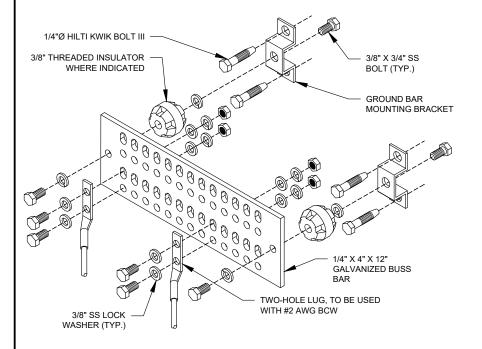
GROUND BAR NOTES:

3/8" X 1-1/2" SS BOLT

(EACH SIDE)

- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.





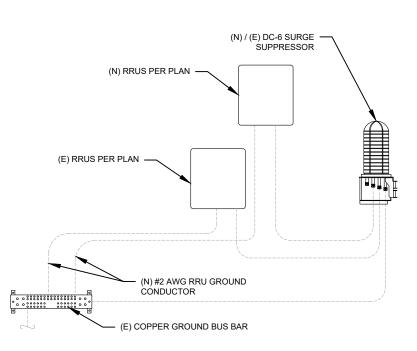
CONSTRUCTION MANAGER OF ANY CONFLICTS.

GROUND BAR NOTES

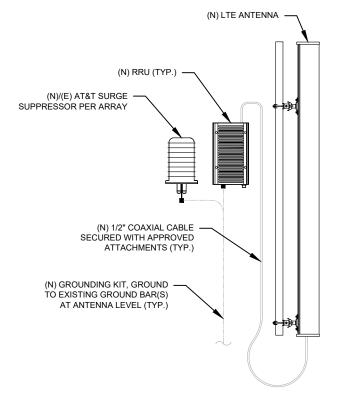
GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S)

MAIN GROUND BAR DETAIL

2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.



RRU GROUNDING



6

ANTENNA/RRU GROUNDING



RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net

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REV	. DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	05/29/25
\triangle	100% CONSTRUCTION	RMJ	06/26/25
$I \overline{\wedge}$			
$I \overline{\wedge}$			
$\overline{\wedge}$			
	\triangle	A PRELIMINARY	PRELIMINARY APM

ATC SITE NUMBER: 370593

ATC SITE NAME: COTOPAXI II

AT&T MOBILITY SITE NUMBER:

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SITE ADDRESS: 345 FREMONT COUNTY RD 012 COTOPAXI, CO 81223



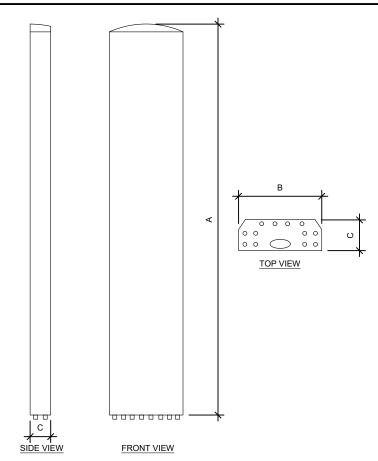


DATE DRAWN: 06/26/25 ATC JOB NO: 15312118 CUSTOMER NAME: COTOPAXI CUSTOMER ID: SICO001561

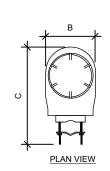
GROUNDING DETAILS

SHEET NUMBER:

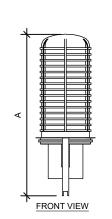
REVISION E-501



ANTENNA SPECIFICATIONS									
ANTENNA MODEL	А	В	С	WEIGHT (LBS)					
NNH4-65C-R6-V3	96.0"	19.6"	7.8"	102.5					



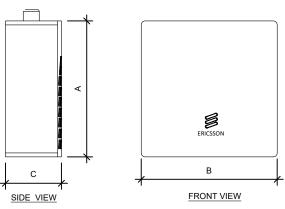
SIDE VIEW



RAYCAP SPECIFICATIONS										
RAYCAP MODEL	А	В	С	WEIGHT (LBS)						
DC9-48-60-24-8C-EV	25.9"	12.4"	9.7"	18.5						



TOP VIEW



RRU SPECIFICATIONS										
RRU MODEL	Α	В	С	WEIGHT (LBS)						
4490 B5/B12A	17.5"	15.1"	6.8"	68.3						
4890 B25/B66	17.5"	15.1"	6.9"	68.3						
4494 B14/B29	17.5"	15.1"	5.6"	57.3						

SUPPLEMENTAL

SHEET NUMBER:

R-601

REVISION:

EQUIPMENT SPECIFICATIONS
SCALE: N.T.S.

KEY FEATURES

Stand Alone DC Power System

- Developed for ease of use, enabling safe and quick power and load adjustments on live
- System features world leading power density rectifiers, enabling up to 63 kW applications with plenty of distribution space, all In a single footprint
- · Individual current measurement feature displays current reading for each fuse/circuit breaker
- · Remote IO terminals are easily and safely accessible for adding new alarm signals
- Cabinet efficiency >99,7% from rectifier output to distribution output enabling maximum system efficiency >96,2% from grid to load
- Remote battery management and load control functions minimize the dependency of reactive site call-outs



Highly scalable DC Power system with system range from 3,5 kW to 63 kW in a single cabinet that utilize minimal space. The NetSure 7100 series delivers affordable high power density with outstanding efficiency and system reliability.

Improving reliability

Where constant migration and change is the norm

The NetSure 7100 Series of -48V DC power systems delivers outstanding reliability within a modular, scalable stand-alone cabinet. Power can be scaled in 3,5 kW increments up to 63 kW, alternative up to 21 kW with room for battery back up in the same cabinet. Distribution units can be added, swapped or removed on live sites, making system expansions a standard procedure. Power supply extensions can be made safe-and-easy, without compromising reliability.

Minimizing energy loss

Save operating costs and non-renewable resources

The NetSure 7100 Series minimizes power conversion energy losses, reducing heat dissipation and lowering energy consumption — both on the power supply and the cooling system. Cabinet infrastructure efficiency is greater than 99,7% from rectifier output to breaker output with maximum system efficiency just over 96,2% from grid to load.

Securing availability

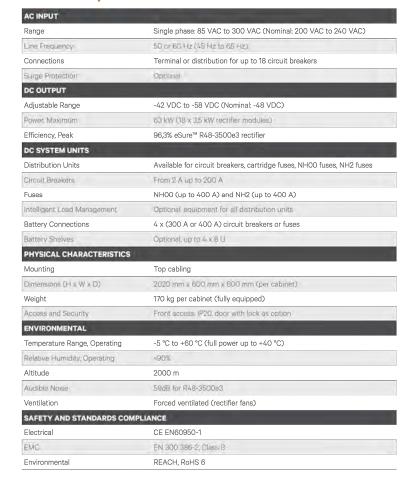
Instead of deploying costly excess capacity up-front

With intelligent load management there is no need to install excess capacity up-front to cover for load build-ups and potential overloads. Each load can be monitored and measured down to the distribution, fuse or circuit breaker level. Our NetSure controller displays actual load current utilization in relation to fuse/circuit breaker threshold levels. Site power and load can be added incrementally, at an optimal investment pace, without compromising system reliability and power availability.

Application

The stand-alone NetSure 7100 Series is the ideal solution for small telecom central office and data center sites requiring reliability and power availability in a small footprint. This single cabinet with embedded battery backup is well suited for replacing less power efficient solutions and wherever frequent load changes require continuous monitoring of individual loads.

Technical Specifications



Ordering Information

MODEL NUMBER	PART NUMBER	DESCRIPTION	
_	BMK220A11	Stand Alone NetSure 7100 DC power system, 42 kW	
-	BMK220A12	Stand Alone NetSure 7100 DC power system, 63 kW	
1R483500E3	BML440068/1	3.5 kW eSure rectifier, high efficiency	
MBSIOD	BMP903100/2	NetSure control unit (2 x 2 U front)	



VertivCo.com | Emerson Network Power Limited, George Curl Way, Southampton, SO18 2RY, VAT Number: GB188146827

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EN328DRD-NS7100S / August 2018

SHEET NUMBER:

SUPPLEMENTAL

R-602

PROPOSED -48VDC NETSURE 7100 POWER PLANT DETAIL

R48-2000e3

 Optimize the amount of energy delivered and reduce power consumption with over 96% efficiency.

Benefits

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

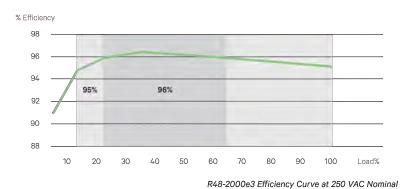
In addition to reducing power consumption and lowering operating cost, eSure $^{\text{TM}}$ high-efficiency rectifiers offer superior performance and uncompromised reliability.

Description

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

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





Technical Specifications

eSure™ Rectifier

AC Input	R48-2000E3							
Voltage	85 VAC to 300 VAC (see figure 1), 187 VAC to 264 VAC (nominal)							
Frequency	45 Hz to 65 Hz							
Maximum Current	12 A							
Power Factor	>0.99 from 50 to 100% load							
Protection	High and low voltage protection, surge and lightning protection Adapts to poor quality grid (voltage dip, weak mains) Disconnection at 415 VAC Mains fuses in both lines							

DC Output		
Voltage	-42 VDC to -58 VDC	
Maximum Power	2000 W	
Maximum Current	42 A @ -48 VDC, limit set point 0 to 42 A (see figure 2)	
Peak Efficiency	96.2%	
	Fuse for reverse connection and back feeding protection	
Protection	High voltage shutdown	
	High temperature protection	

Control and Monitoring	
Converter Alarm and Signaling	Alarm and status reported via CAN bus to system controller
	Green LED: Normal Operation
Visual Indications	Yellow LED: Alarm
	Red LED: Failure

Environmental

Operating	-40°C to 80°C / -40°F to +176°F (see figure 3 for derating)						
Temperature Derating	Full output power up to +65°C at input voltage range 200 to 250 VAC (see figure 3)						
Storage	-40°C to +70°C / -40°F to +158°F						
Relative Humidity	O to 95%						
Altitude	Full output power up to +65°C at input voltage range @200~ 250 VAC						

Safety 60950-1 (EN, IEC and UL) EMC EN55022, CISPR22, ETSI EN300 286: 2005, FCC CFR etc.	
EN55022, CISPR22, ETSI EN300 286: 2005, FCC CFR	
Telcordia GR-1089-CORE issue 6 (Class B conducted a	
Environment REACH, RoHS, WEEE	

Mechanics	
Dimensions (H x W x D)	41 x 84.5 x 252.5 (mm) / 1.61 x 3.33 x 9.94 (inches)
Weight	1.13 kg / 2.49 lbs

Ordering Information

Model Number	Description
1R482000E3	eSure™ rectifier, -48 VDC, 2000 W



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R48-2000E3 (R06/20)

Figures

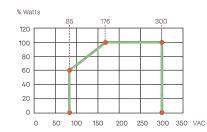


Figure 1: Output Power vs. Input Voltage and Vo > 48 V at Tamb <55°C

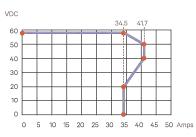


Figure 2: Output Voltage vs. Output Current at Maximum Output Power 2000 W

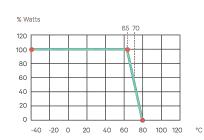


Figure 3: Output Power vs. Temperature at Uin > 200VAC

SUPPLEMENTAL

SHEET NUMBER:

R-603

PROPOSED -48V RECTIFIER DETAIL



PYLI2VI85FT

12V 185Ah-8Hr

Proven in the real world, the PYL Series of telecom batteries provides security and long life in extreme climates where other VRLA batteries just don't survive. The PYL technology utilizes proprietary Jead alloys and active material additives. The PYL Series is the most cost effective battery solution over the total life cycle and for initial installation in your network.

- Primary lead for Long Life
- UL94 V-0 flame retardant case
- High temperature, long life design
- AGM and spill-proof construction
- Harnesses/connecting bars available
- No maintenance required
- 10+ years design life
- GR-4228 compliant
- UL recognized
- ABS plastic case for durability

SPECIFICATIONS

* Maximum Charge Current is 25% of the 8 Hr. Rate

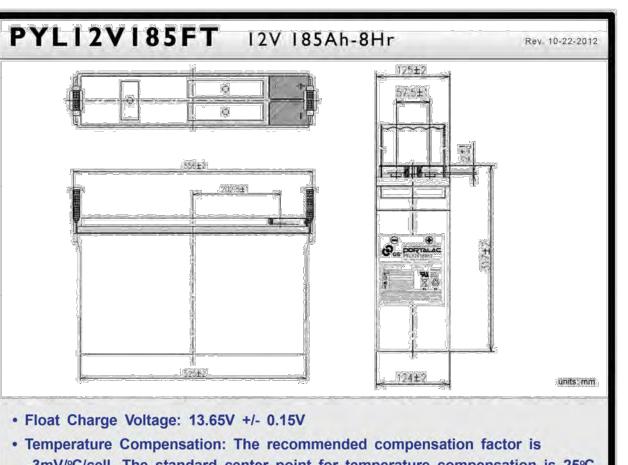
Nominal	Nominal Rated Capacity Ambient Temperature		Outer Dimensions							Weight				
Voltage	Rate In Ah	Charge /	Storage		L	V	٧		H	T	Ή	110	igint	
(V)	8 Hr	Discharge	Storage	mm	in.	mm	in.	mm	in.	mm	in.	kg	lbs.	Terminal
12	185 Ah	-15 to 50°C (5 to 122°F)	-15 to 45°C (5 to 113°F)	556	21.9	125	4.9	317	12.5	317	12.5	60.7	133.8	Front-M8 Bolt

Amperes to Final voltage: 1.75V per cell @ 25°C (77°F)

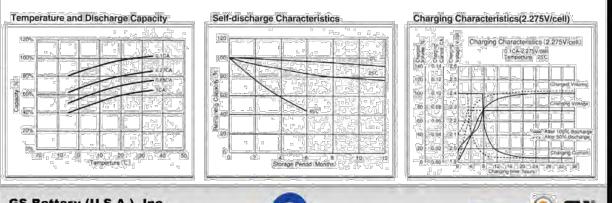
	_			DISC	HARGE TIM	E (Hr)	_			
2	3	4	5	6	7	8	9	10	12	20
71.2	52.0	41.3	34.4	30.0	26.0	23.1	21.0	19.3	17.7	10.2

Watts to Final voltage: I.75V per cell @ 25°C (77°F)

DISCHARGE TIME (Hr)										
2	3	4	5	6	7	8	9	10	12	20
829	609	487	407	351	315	275	250	232	215	123



- -3mV/°C/cell. The standard center point for temperature compensation is 25°C.
- Internal Resistance: Approximately 3.5 mΩ measured with 1kHz AC bridge
- Terminal Torque: 90 in.lbs. (13mm, top); 43.5 in.lbs. (10mm, front)



GS Battery (U.S.A.), Inc.

1150 Northmeadow Parkway, Suite 110 Roswell, GA 30076

800-472-2879



International Certification

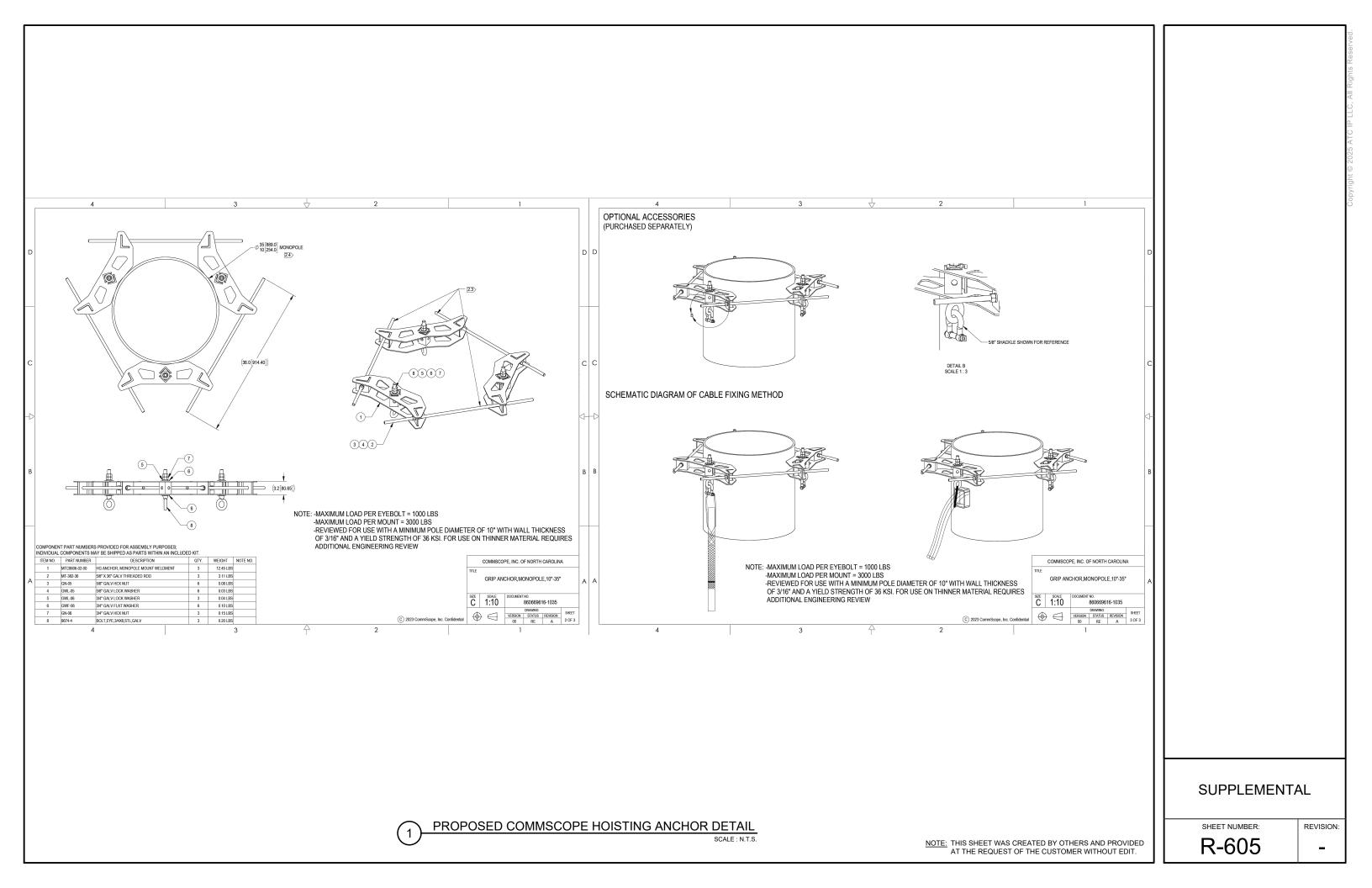
(1) ISO 9001, TS16949 (2) UL approval; Code: MH12970

SUPPLEMENTAL

SHEET NUMBER:

REVISION:

PROPOSED GS PORTALAC PYL12V185FT BATTERY DETAIL



LUHG-38



Lace-up Hoisting Grip for HELIAX® 0.40-0.56 in (10.2-14.2 mm) cable including all RFFT discrete trunk series cables

Product Classification

Product Type Hoisting grip **Product Brand HELIAX®**

Ordering Note CommScope® standard product (Global)

General Specifications

60.96 m | 200 ft **Attachment Spacing Intervals Hoisting Grip Type** Lace-up hoisting grip Installation Tool Required, not included

Support Clamp Not included **Tool Type** Hoisting grip

Dimensions

Grip Length, minimum 152.4 mm | 6 in Leader Length, minimum 165.1 mm | 6.5 in Compatible Diameter, maximum 14.2 mm | 0.559 in Compatible Diameter, minimum 10.2 mm | 0.402 in

Nominal Size 3/8 in

Electrical Specifications

Return Loss Effect, maximum 0.1 dB DTF Effect, maximum 0.1 dB

Material Specifications

Material Type Stainless steel

Mechanical Specifications

Pull Load Capacity 90.718 kg | 200 lb

LUHG-38

Packaging and Weights

Height, packed 55.88 mm | 2.2 in Width, packed 266.7 mm | 10.5 in Length, packed 266.7 mm | 10.5 in

Packaging quantity

Weight, gross 0.04 kg | 0.088 lb

Regulatory Compliance/Certifications

Classification Agency

CHINA-ROHS Below maximum concentration value

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



Page 2 of 2

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COMMSCOPE®

Page 1 of 2

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COMMSCOPE®

SUPPLEMENTAL

SHEET NUMBER:

R-606

PROPOSED COMMSCOPE CABLE HOISTING GRIP DETAIL

29958



Lace-up Hoisting Grip for HELIAX® 0.75-0.99 in (19-25.1 mm) cables and elliptical waveguide 85, 90, 127A, 132-144, PWRT-606-S

Product Classification

Hoisting grip **Product Type Product Brand HELIAX®**

Ordering Note CommScope® non-standard product

General Specifications

Attachment Spacing Intervals 60.96 m | 200 ft **Hoisting Grip Type** Lace-up hoisting grip

Support Clamp Not included Tool Type Hoisting grip

Dimensions

Grip Length, minimum 508 mm | 20 in 152.4 mm | 6 in Leader Length, minimum Compatible Diameter, maximum 25.1 mm | 0.988 in Compatible Diameter, minimum 19 mm | 0.748 in

Nominal Size 5/8 in

Electrical Specifications

Return Loss Effect, maximum 0.1 dB DTF Effect, maximum 0.1 dB

Material Specifications

Material Type Stainless steel

Mechanical Specifications

226.796 kg | 500 lb **Pull Load Capacity**

29958

Packaging and Weights

Height, packed 55.88 mm | 2.2 in Width, packed 236.22 mm | 9.3 in Length, packed 236.22 mm | 9.3 in

Packaging quantity

0.3 kg | 0.661 lb Weight, gross

Regulatory Compliance/Certifications

Agency Classificatio

CHINA-ROHS Below maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



Page 2 of 2

Page 1 of 2

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COMMSC PE°

 $\frac{\text{NOTE:}}{\text{AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.}}$

SUPPLEMENTAL

SHEET NUMBER:

R-607

PROPOSED COMMSCOPE CABLE HOISTING GRIP DETAIL

Pxxx: Bulk Pipe



art#	Length	OD x Length (in)
	Schedu	le 40
P260	5'-0"	2-3/8" x 60"
P263	5'-3"	2-3/8" x 63"
P272	6'-0"	2-3/8" x 72"
P284	7'+0"	2-3/8" x 84"
P296	8'-0"	2-3/8" x 96"
P2108	9'-0"	2-3/8" x 108"
P2120	10'-0"	2-3/8" x 120"
P2126	10'-6"	2-3/8" x 126"
P2150	12'-6"	2-3/8" x 150"
P2174	14'-6"	2-3/8" x 174"
P2252	21'-0"	2-3/8" x 252"
P3072	6'-0"	2-7/8" x 72"
P3084	7'-0"	2-7/8" x 84"
P3096	8'-0"	2-7/8" x 96"
P30108	9'-0"	2-7/8" x 108"
P30120	10'-0"	2-7/8" x 120"
P30126	10'-6"	2-7/8" x 126"
P30150	12'-6"	2-7/8" x 150"
P30174	14'-6"	2-7/8" x 174"
P30252	21'-0"	2-7/8" x 252"
P360	5'-0"	3-1/2" x 60"
P372	6'-0"	3-1/2" x 72"
P384	7′-0″	3-1/2" x 84"
P396	8'-0"	3-1/2" x 96"
P3150	12'-6"	3-1/2" x 150"
P3160	13'-4"	3-1/2" x 160"
P3174	14'-6"	3-1/2" x 174"
P3216	18'-0"	3-1/2" x 216"
P3252	21'-0"	3-1/2" x 252"
P472	6'-0"	4-1/2" x 72"
P4126	10'-6"	4-1/2" x 126"
P4252	21'-0"	4-1/2" x 252"



Features:

Factory cut end, hot-dip galvanized pipe

Construction:

- ASTM A53 Grade B
- Schedule 40 or Schedule 80

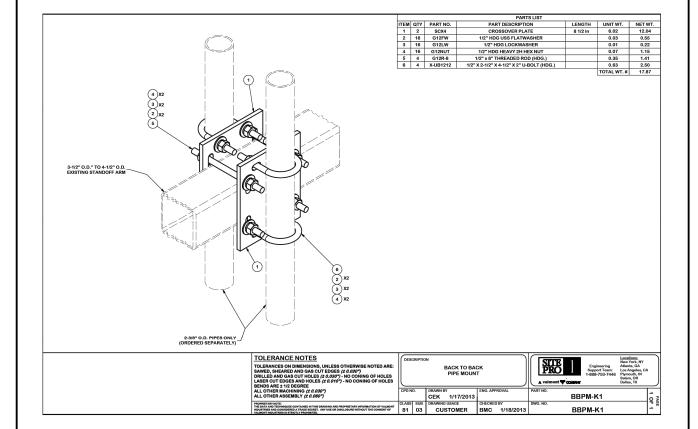
Design Criteria:

- ASTM A53 Grade B (Yield Fy = 35 ksi [240 MPa]/ Tensile Fu = 60 ksi [415 MPa])
- Hot dip galvanized in accordance with ASTM A123 requirements

Part#	Length	OD x Length (in)				
Schedule 80						
P2252-80	21'	2-1/2" x 252"				
P30126-80	10'-6"	2-7/8" x 126"				
P30252-80	21′	2-7/8" x 252"				
P3252-80	21'	3-1/2" x 252"				

SitePro1.com

888-438-7761



PROPOSED BACK TO BACK PIPE MOUNT DETAIL

 $\frac{\text{NOTE:}}{\text{AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.}} \\$

SUPPLEMENTAL

SHEET NUMBER:

REVISION: R-608

PROPOSE MOUNTING PIPE DETAIL

SXK 125 5394/2

Universal B2B Bracket CC110

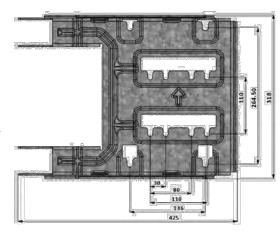
Universal B2B Bracket CC110 is designed for installation of back to back ERS on any supporting structure i.e. pole, mast, tower leg etc. It is Low PIM bracket. When installed properly, it meets the requirements of installation in High Risk PIM Zones. Static and dynamic testing was conducted as per IEC 61000-4-3: 2020 PRV and ITU-R SM-329.

Robustness

The Universal B2B Bracket CC110 kit supports for installation of back to back ERS weight upto 50 kg on each side simultaneously. It supports the ERS mounting on pole, mast, tower leg or square tube. Easy installation due to use of carriage bolts for mounting on the supporting structure and key holes for ERS in the bracket. Bush separators has been provided to avoid any contact of arms with each other.

Quality

All components of the assembly are made of galvanized High Tensile Steel, which supports corrosion resistance.





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Technical specification

Functional Description SXK 125 5394/2

Universal B2B Bracket CC110 kit supports installation of ERS back to back with Centre to Centre distance of 30mm x 110mm, 80mm x 110mm and 110mm x 110mm. It also supports two RRUs (back to back) with Centre to Centre distance of 146mm x 264.5 mm (old generation ERS). ERS or RRU are mounted back to back in portrait position on any supporting structure with ERS or RRU weight up to 50kg on each side.







May 2021 2

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Product	Universal B2B Bracket CC110						
Product number	SXK 125 5394/2						
Mounting range	Profile	Mi	nimum	Maximum			
	Circular tube		25 mm inch)	Ø120 mm (4.7 inch)			
	60º Angle	35	mm Openir 4 inch)	` ,	ing		
	90º Angle	35	x 35 mm 4 X 1.4 inch	112 x 112 mm	-		
	Square tube	35	x 35 mm .4 X 1.4 inch	80 x 80 mm	•		
Mechanical specification							
	Brackets	Н	igh Tensile S	Steel, Galvanized			
	Fasteners	G	rade 8.8 Ga	lvanized & A4			
	Bush Separat	ors C	omposite m	aterial(PBT+PET)-0	GF30		
Recommended tools							
	M8 ISO, 13mi	n torqu	n torque wrench (10-22 Nm)				
	M10 ISO, 16mm & 17mm to			wrench (15-25 Nm)		
Performance							
	Maximum wir	nd spee	d	67 m/s (240 km/l	n, 149 mph)		
	Survival wind	speed		90 m/s (324 Km/	h, 201 mph)		
	Maximum eq	Jipmen	t weight	2 x 50 Kg (2 x 11	0.2 lbs)		
Packaging dimension	Length W	idth	Height	Package Weight	Product Weight		
Universal B2B Bracket CC110	480 mm 36	60 mm	80 mm	10.4 Kg	10.0 Kg		
(SXK 125 5394/2)	(18.9 in) (1	4.2 in)	(3.2 in)	(22.9 lbs)	(22.0 lbs)		

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287 01-SXK 125 5394/2, Rev. A ©Ericsson AB 2021

 $\frac{\text{NOTE:}}{\text{AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.}}$

SUPPLEMENTAL

SHEET NUMBER:



This report was prepared for American Tower Corporation by



Antenna Mount Analysis Report

Mount Type : 12.5 ft Platform

ATC Asset Name : Cotopaxi II

: 370593 **ATC Asset Number**

Engineering Number : 15312118_C8_01

Mount Elevation : 109.5 ft

Carrier : AT&T Mobility

Carrier Site Name : COTOPAXI

: WSUTH0060835 **Carrier Site Number**

Site Location : 345 Fremont County Road 012

Cotopaxi, CO 81223-0010

38.374178, -105.690958

: Fremont County

: May 19, 2025 Date

Max Usage : 60 %

Jason G : Contingent

Digitally signed by Jason G

Cheronis

neron | S Date: 2025.05.20

09:07:38 -04'00'

Prepared By:

Result

Vice President of Structural Engineering

POD ENGINEERING GROUP - 1033 E. Turkeyfoot Lake Road, Suite 206 - Akron, OH 44312 - 330-961-7432 - www.podgrp.com



Eng. Number 15312118_C8_01 May 19, 2025 Page 1

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 109.5 ft.

Supporting Documents

Spec. Sheet	Spec Sheet for SitePro1 Part #: RMQP-NP			
Structural Analysis	ATC Engineering #: OAA787850_C3_06, dated: September 19, 2024			
RFDS	RFDS dated April 28, 2025, FA #: 10547898			
Photos	Site photos from 2020			

<u>Analysis</u>

This antenna mount was analyzed using RISA-3D v21 analysis software

Basic Wind Speed:	105 mph, Vult (3-Second Gust)				
Basic Wind Speed w/ Ice:	55 mph (3-Second Gust) w/ 0.18" Radial Ice (Escalating)				
Codes:	TIA-222-I				
Structure Class:	II				
Exposure Category:	С				
Topographic Factor Procedure:	Method 1				
Topographic Feature:	Flat				
Crest Height:	0ft				
Crest Length:	0 ft				
Spectral Response:	$S_{MS} = 0.37, S_{M1} = 0.18$				
Site Class:	D (assumed)				
Live Loads:	Lm = 500 lbs*, Lv = 250 lbs*				

^{*}Live load(s) reduction confirmed to either not control or not be applicable.

Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above provided the modifications listed below are completed:

- Mount pipes to be connected at 0'-3", 4'-3", 8'-3" and 12'-3" respectively from right outside edge when looking at the mount from front and mounted with a 110'-0" centerline using the existing crossover
- Install 8'-0" P2 STD mount pipe (SitePro1 P296, 2 per sector, total of 6, CONMAT #: ANT. 55983) connected 1'-0" from the collar along the standoff and mounted with a 110'-0" centerline using SitePro1 BBPM-K1 crossover kits (1 per sector, total of 3, CONMAT #: ANT. 58963).

No structural failures were addressed with the noted contingencies. Contingencies address Carrier's antenna spacing requirements.

If you have any questions or require additional information, please contact American Tower at MountAnalysis@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

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> NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE

CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO

VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

MOUNT ANALYSIS

SUPPLEMENTAL