

161 INVERNESS DR W, 2ND FLOOR ENGLEWOOD, CO 80112

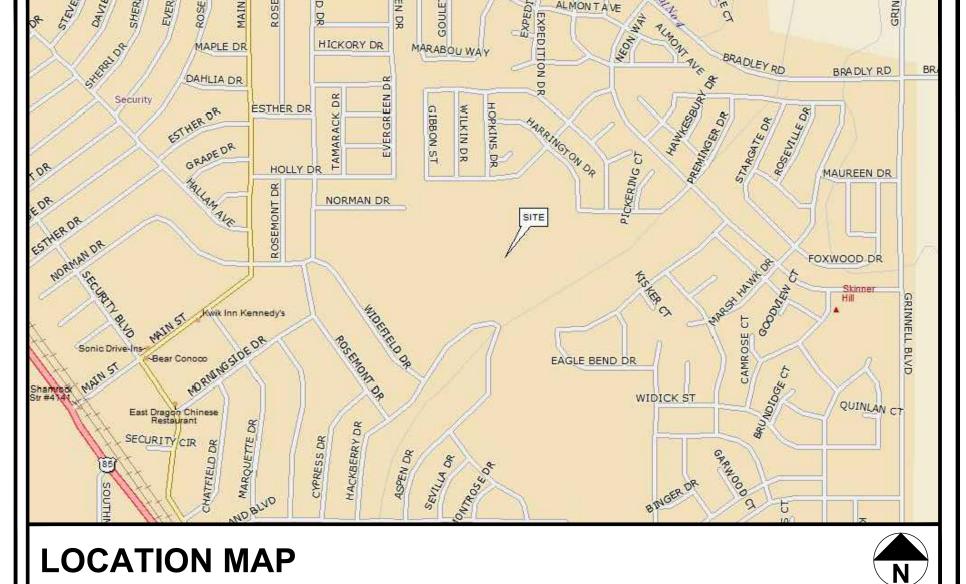
AT&T SITE NAME: WIDEFIELD HIGH SCHOOL CO AT&T SITE ID: COL02205 **AT&T PACE NUMBER: MRUTH042458 AT&T FA CODE: 15312479** USID: 295097 **NSB - MONOPOLE**

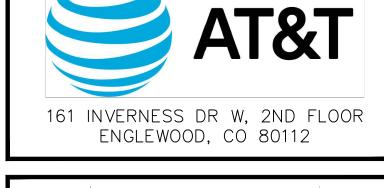
LTE 1C/2C/3C/4C/5G NR 1SR



ATC SITE NAME: WIDEFIELD HIGH SCHOOL II

COLORADO SPRINGS, CO 80911







19100 VON KARMAN AVE SUITE 200 IRVINE, CA 92612



AT&T SITE ID: COL02205 **AT&T FA CODE: 15312479 AT&T PACE #: MRUTH042458** ATC #: 370609 WIDEFIELD HIGH SCHOOL II

527 WIDEFIELD DRIVE COLORADO SPRINGS, CO 80911 (EL PASO COUNTY) **EXISTING 119'-0" MONOPOLE TOWER NSB - LTE - 1C/2C/3C/4C/ 5G NR 1SR**

		ISSU	ED FOR:	
REV	DATE	DRWN	DESCRIPTION	QA
А	11-23-20	KT	PRELIMINARY	EGG
В	12-14-20	SDD	90% CONSTRUCTION	EGG
С	02-18-21	CAK	90% CONSTRUCTION	EGG
0	04-23-21	GV	100% CONSTRUCTION	EGG
1	12-13-21	SRZ	100% CONSTRUCTION	EGG

SEAL:



December 13, 2021 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION

SHEET TITLE:

OF A LICENSED PROFESSIONAL ENGINEER,

TO ALTER THIS DOCUMENT.

TITLE SHEET

SHEET NUMBER:

REVISION:

TEP #:

177861.243634

AMERICAN TOWER®

ATC SITE NUMBER: 370609 SITE ADDRESS: 527 WIDEFIELD DRIVE

(EL PASO COUNTY)

N 38° 45' 17.39" (38.75483°) *LONGITUDE W 104° 43' 50.02" (-104.73056°)

*GROUND ELEV. (AMSL) = 5,795'±

*INFORMATION PROVIDED BY ATC

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL **GOVERNING AUTHORITES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT**

COLLOCATION

119' MONOPOLE

EL PASO COUNTY

300 SQ FT

WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING: 1. INTERNATIONAL BUILDING CODE (2018 EDITION) 2. INTERNATIONAL CODE COUNCIL

3. ANSI/TIA/EIA-222-H

PROJECT DESCRIPTION:

4. NATIONAL ELECTRIC CODE (2020 EDITION) 5. LOCAL BUILDING CODE

6. CITY/COUNTY ORDINANCES CODE COMPLIANCE

FROM COLORADO SPRINGS DOWNTOWN HEAD SOUTH ON 1-25, TAKE EXIT 135 AND TURN LEFT ONTO S ACADEMY BLVD POWER COMPANY: **COLORADO SPRINGS** FOR .8 MILES, TAKE US 85 RAMP TO FOUNTAIN AND TAKE US 85 SOUTH FOR 1.4 MILES, TURN LEFT ONTO MAIN ST FOR .4 UTILITIES MILES, TURN RIGHT ONTO NORMAN DR. FOR .1 MILES, CONTINUE ONTO WIDEFIELD DR. FOR .3 MILES, TURN LEFT ONTO **CUSTOMER SERVICE** CONTACT:

(719) 448-4800 **METER # NEAR SITE:** UNKNOWN

TELEPHONE COMPANY: LEC UNASSIGNED **CONTACT:** UNKNOWN PHONE: UNKNOWN

PHONE # NEAR SITE: UNKNOWN PEDESTAL # NEAR SITE: UNKNOWN

09/21/2020 5:43:37 P.M.

UTILITY INFORMATION

DESIGN PACKAGE BASED ON RF DATA SHEET

1.00

DATE UPDATED: 10/14/2020 11:33:08 A.M.

COL02205

DRIVING DIRECTIONS

PREVIOUS REDLINES

please add the following to the site plan: Owner email for responsible party Applicant email for responsible party Existing/proposed land use

The footprint of all existing and proposed buildings and the setback distances from each existing and proposed structure to the property lines

TOWER COORDINATES

AT&T SITE NAME: WIDEFIELD HIGH SCHOOL CO AT&T SITE ID: COL02205 15312479 **PACE NUMBER:** MRUTH042458

ATC SITE NAME: WIDEFIELD HIGH SCHOOL II **ATC SITE NUMBER:**

CURRENT ZONING: PROPERTY TAX SCHEDULE 6512300001

TOWER TYPE:

JURISDICTION:

LEASE AREA:

PROJECT INFORMATION

PROJECT TEAM

OUTE CONOTRUCTION MANAGED	SHEET:	DESCRIPTION:	REV
SITE CONSTRUCTION MANAGER: NAME: AT&T	T-1	TITLE SHEET	1
ADDRESS: 161 INVERNESS DR W, 2ND FLOOR CITY, STATE, ZIP: ENGLEWOOD, CO 80112	T-2	GENERAL NOTES	0
CONTACT: REID POST PHONE: (720) 838-4228	C-1.1	SITE PLAN	1
	C-1.2	COMPOUND DETAIL	0
SITE APPLICANT: NAME: AT&T	C-2	EQUIPMENT & ANTENNA LAYOUTS	0
ADDRESS: 4393 S RIVERBOAT RD, 4TH FLOOR CITY, STATE, ZIP: SALT LAKE CITY, UT 84123	C-3	EXISTING AND FINAL ELEVATIONS	0
CONTACT: JAN ROBINETTE PHONE: (801) 201-4173	C-4	EQUIPMENT DETAILS	0
	C-5	EQUIPMENT DETAILS	0
CIVIL ENGINEER: NAME: TOWER ENGINEERING	C-6	WIC SHELTER DETAILS	0
PROFESSIONALS ADDRESS: 326 TRYON ROAD	C-7	GENERATOR DETAILS	0
CITY, STATE, ZIP: RALEIGH, NC 27603 CONTACT: GRAHAM M. ANDRES, P.E. PHONE: (919) 661-6351	C-8	FOUNDATION DETAILS	0
PHONE: (919) 661-6351	E-1	ELECTRICAL PANEL & GROUNDING PLANS	0
ELECTRICAL ENGINEER:	E-2	ONE-LINE DIAGRAM	0
NAME: TOWER ENGINEERING PROFESSIONALS	E-3	DC SYSTEM DETAILS	0
ADDRESS: 326 TRYON ROAD CITY, STATE, ZIP: RALEIGH, NC 27603	G-1	GROUNDING DETAILS	0
CONTACT: GRAHAM M. ANDRES, P.E. PHONE: (919) 661-6351	G-2	GROUNDING DETAILS	0
PROPERTY OWNER: NAME: WIDEFIELD SCHOOL DISTRICT NO 3 ADDRESS: 1820 MAIN ST CITY, STATE, ZIP: COLORADO SPRINGS, CO 80911			

SHEET INDEX

RFDS DATA

NUMBER OF RF CABLES: 0

NUMBER OF SECTORS: 3 NUMBER OF ANTENNAS: 6 NUMBER OF TMAs: 0 NUMBER OF RRHs: 9

NUMBER OF DC SQUIDS: 3

NUMBER OF FIBER/DC SQUIDS: 0

NUMBER OF FIBER TRUNK CABLES: 3 NUMBER OF DC TRUNK CABLES: 6

RFDS NAME:

REVISION:

ISSUED:

THE PURPOSE OF THIS PROJECT IS AS FOLLOWS:

TOWER SCOPE OF WORK:

- **INSTALL (3) SECTOR FRAMES INSTALL (6) ANTENNAS**
- INSTALL (9) RRHs INSTALL (3) SQUIDS **INSTALL (3) FIBER TRUNKS**

INSTALL (6) DC TRUNKS

GROUND SCOPE OF WORK:

- INSTALL (1) W.I.C. SHELTER PAD **INSTALL (1) GENERATOR PAD**
- **INSTALL (1) W.I.C SHELTER INSTALL (1) GENERATOR** INSTALL (1) H-FRAME
- **INSTALL METER AND DISCONNECT**
- **INSTALL FIBER BOX**

NSB - MONOPOLE LTE - 1C/2C/3C/4C/5G NR 1SR

JURISDICTIONAL APPROVAL

DO NOT SCALE DRAWINGS.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

PCD FILE NO. PPR-21-034

SCOPE OF WORK

GENERAL NOTES

GENERAL CONSTRUCTION NOTES:

- 1. OWNER FURNISHED MATERIALS, AT&T "THE COMPANY" WILL PROVIDE AND THE 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
- 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 ROD(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 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
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- 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 OTHERWISE NOTED.**
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- 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 REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T REP PRIOR TO PROCEEDING.
- 13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T 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 CONSTRUCTION MANAGER.
- 15. 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 REP AND ENGINEER OF RECORD IMMEDIATELY.
- 17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- 19. 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 ######### AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T 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.**
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T SPECIFICATIONS AND REQUIREMENTS.

- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T 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 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. 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.
- 29. 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.
- 30. 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 AT&T REP. ANY WORK FOUND BY THE AT&T REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
- 31. 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.
- 32. AT&T FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T 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.
- 33. AT&T 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 AT&T OR THEIR ARCHITECT/ENGINEER.

STRUCTURAL STEEL NOTES:

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- 2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
- A. ASTM A-572, GRADE 50 ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
- B. ASTM A-36 ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
- C. ASTM A-500. GRADE B HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
- D. ASTM A-325, TYPE SC OR N ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS

E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE

- 3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- 4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
- 5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- 6. CONNECTIONS:
- A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
- E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, **UNLESS NOTED OTHERWISE.**

- F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE
- G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
- I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE **ENGINEER, AND AT&T PROJECT MANAGER IN WRITING**

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

WORK INCLUDED:

PRINTOUT OF THAT TEST.

- A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
- B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND AT&T SPECIFICATIONS.
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
- D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE
- 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:
- 2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR
- ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF **COAXIAL CABLE (NOT WITHIN BENDS)**

CONCRETE AND REINFORCING STEEL NOTES:

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
- 2. MIX DESIGN SHALL BE APPROVED BY AT&T REP PRIOR TO PLACING CONCRETE.
- 3. CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 1.5%) WITH A SLUMP RANGE OF 3-6" AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI **UNLESS OTHERWISE NOTED.**
- 4. THE FOLLOWING MATERIALS SHALL BE USED: PORTLAND CEMENT: ASTM C150, TYPE 2 REINFORCEMENT: ASTM A185, PLAIN STEEL WELDED WIRE FABRIC REINFORCEMENT BARS: ASTM A615, GRADE 60, DEFORMED NORMAL WEIGHT AGGREGATE: ASTM C33 WATER: **ASTM C 94/C 94M**

ASTM A185

ADMIXTURES: -WATER-REDUCING AGENT: ASTM C 494/C 494M, TYPE A -AIR-ENTERING AGENT: ASTM C 260/C 260M -SUPERPLASTICIZER: ASTM C494, TYPE F OR TYPE G -RETARDING: **ASTM C 494/C 494M, TYPE B**

WELDED WIRE FABRIC:

- 5. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE NO LESS THAN 3".
- 6. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERWISE.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT. DOWEL. OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR APPROVAL FROM AN ATC ENGINEER WHEN DRILLING HOLES IN CONCRETE.
- 8. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN "METHOD 1" OF ACI 301.
- 9. DO NOT WELD OR TACK WELD REINFORCING STEEL.
- 10. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.

- 11. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- 12. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- 13. FOR COLD-WEATHER (ACI 306) AND HOT-WEATHER (ACI 301M) CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.
- 14. ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH."
- 15. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
- 16. DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI
- 17. ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS.
- 18. LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWINGS.
- 19. SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 6".
- 20. BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE OF SUFFICIENT STRENGTH FOR INTENDED PURPOSE, BUT NOT LESS THAN NO. 18
- 22. SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE **6" GRAVEL BENEATH SLAB.**

ELECTRICAL NOTES:

- 1. ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
- ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES. CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 3. CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

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.





SUITE 200

IRVINE, CA 92612



AT&T SITE ID: COL02205 AT&T FA CODE: 15312479 **AT&T PACE #: MRUTH042458** ATC #: 370609 WIDEFIELD HIGH SCHOOL II

527 WIDEFIELD DRIVE COLORADO SPRINGS, CO 80911 (EL PASO COUNTY) **EXISTING 119'-0"** MONOPOLE TOWER **NSB - LTE - 1C/2C/3C/4C/ 5G NR 1SR**

		ISSU	ED FOR:	
REV	DATE	DRWN	DESCRIPTION	QA
Α	11-23-20	KT	PRELIMINARY	EGG
В	12-14-20	SDD	90% CONSTRUCTION	EGG
С	02-18-21	CAK	90% CONSTRUCTION	EGG
0	04-23-21	GV	100% CONSTRUCTION	EGG

SEAL:



April 23, 2021

IT IS A VIOLATION OF LAW FOR ANY PERSON. UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

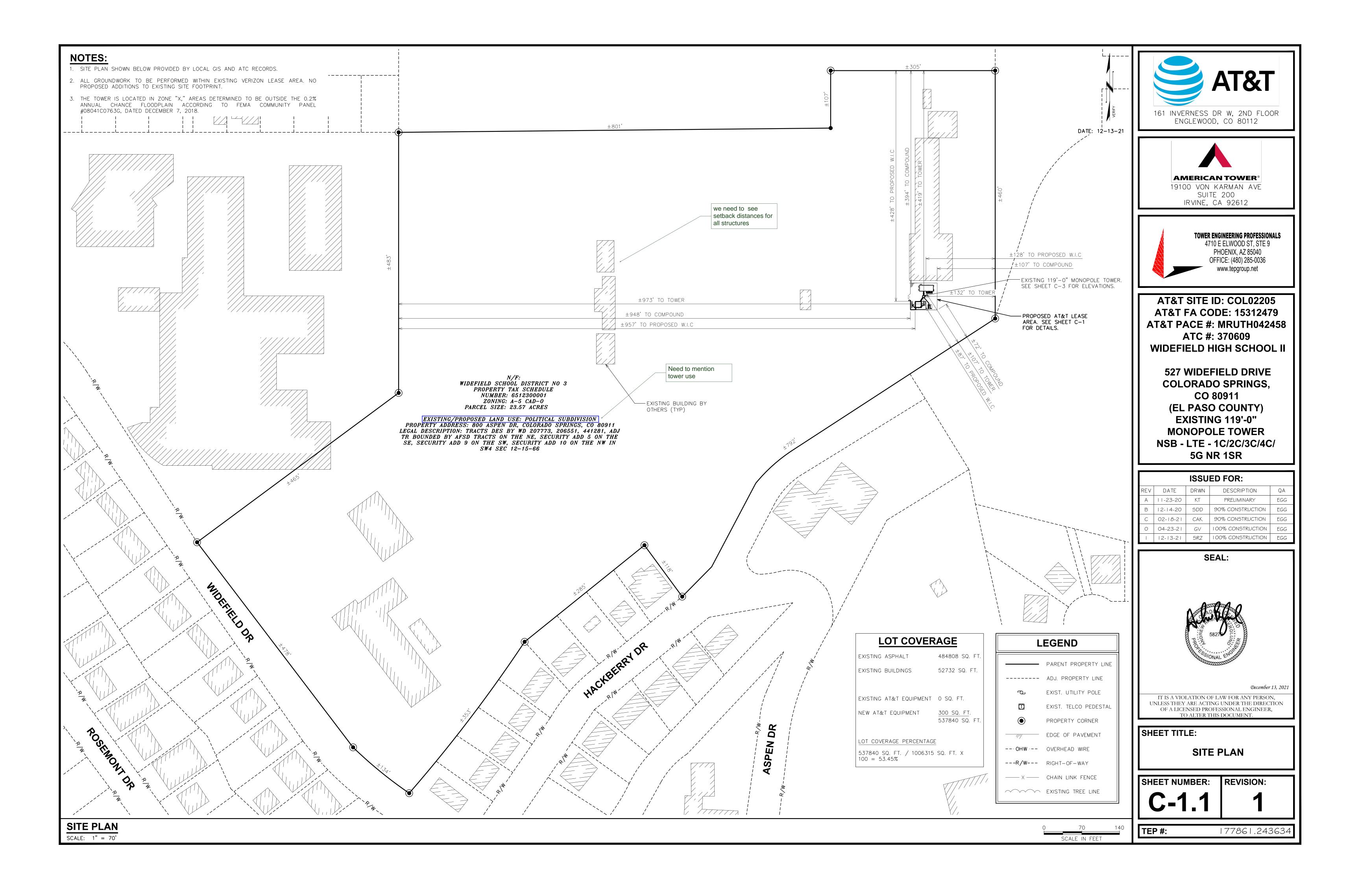
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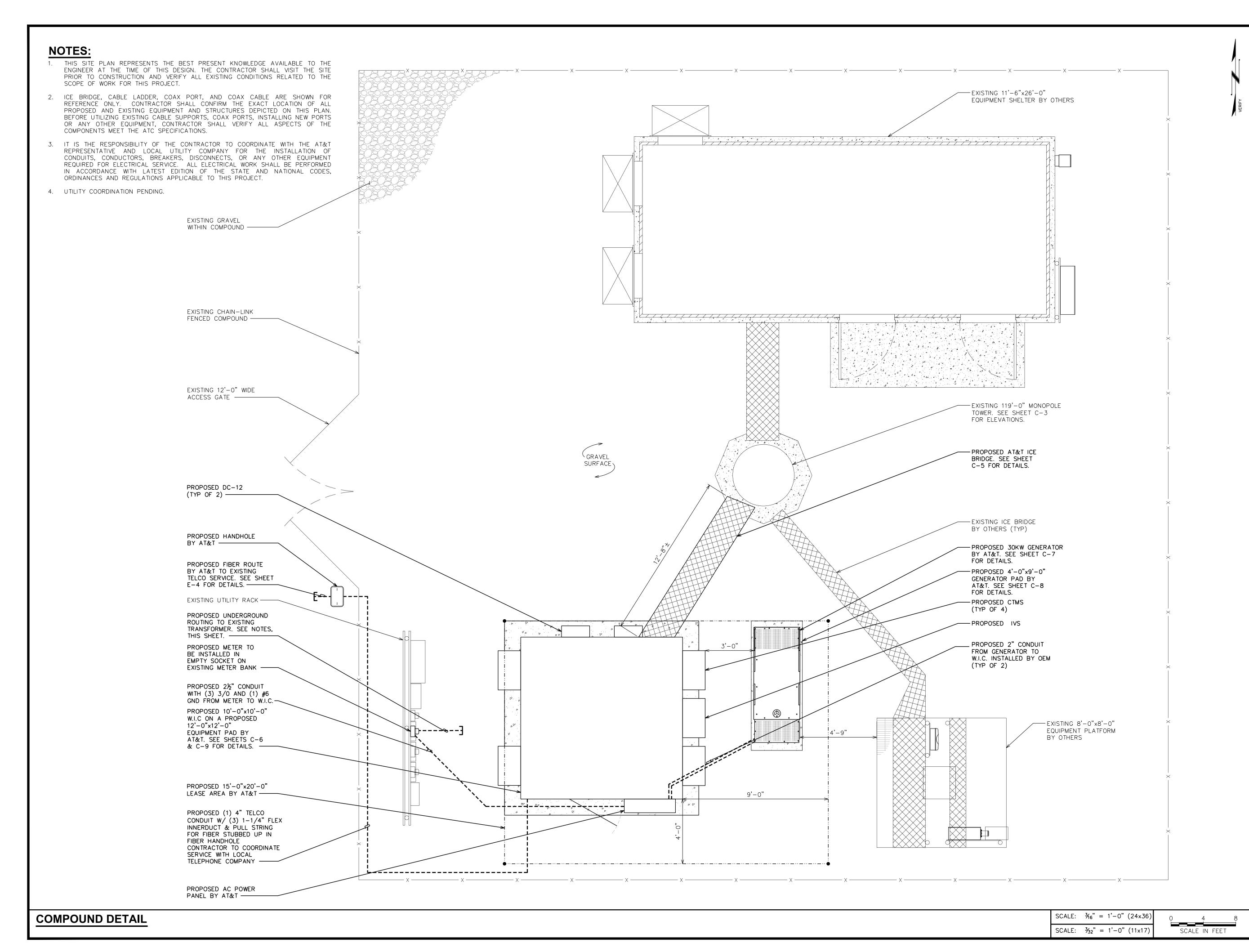
GENERAL NOTES

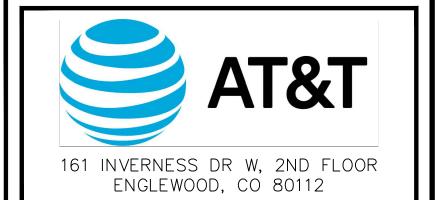
SHEET NUMBER:

REVISION:

TEP #:









19100 VON KARMAN AVE SUITE 200

IRVINE, CA 92612



AT&T SITE ID: COL02205
AT&T FA CODE: 15312479
AT&T PACE #: MRUTH042458
ATC #: 370609
WIDEFIELD HIGH SCHOOL II

527 WIDEFIELD DRIVE
COLORADO SPRINGS,
CO 80911
(EL PASO COUNTY)
EXISTING 119'-0"
MONOPOLE TOWER
NSB - LTE - 1C/2C/3C/4C/
5G NR 1SR

		ISSU	ED FOR:	
REV	DATE	DRWN	DESCRIPTION	QA
Α	11-23-20	KT	PRELIMINARY	EGG
В	12-14-20	SDD	90% CONSTRUCTION	EGG
С	02-18-21	CAK	90% CONSTRUCTION	EGG
0	04-23-21	GV	100% CONSTRUCTION	EGG

SEAL:



April 23, 2021

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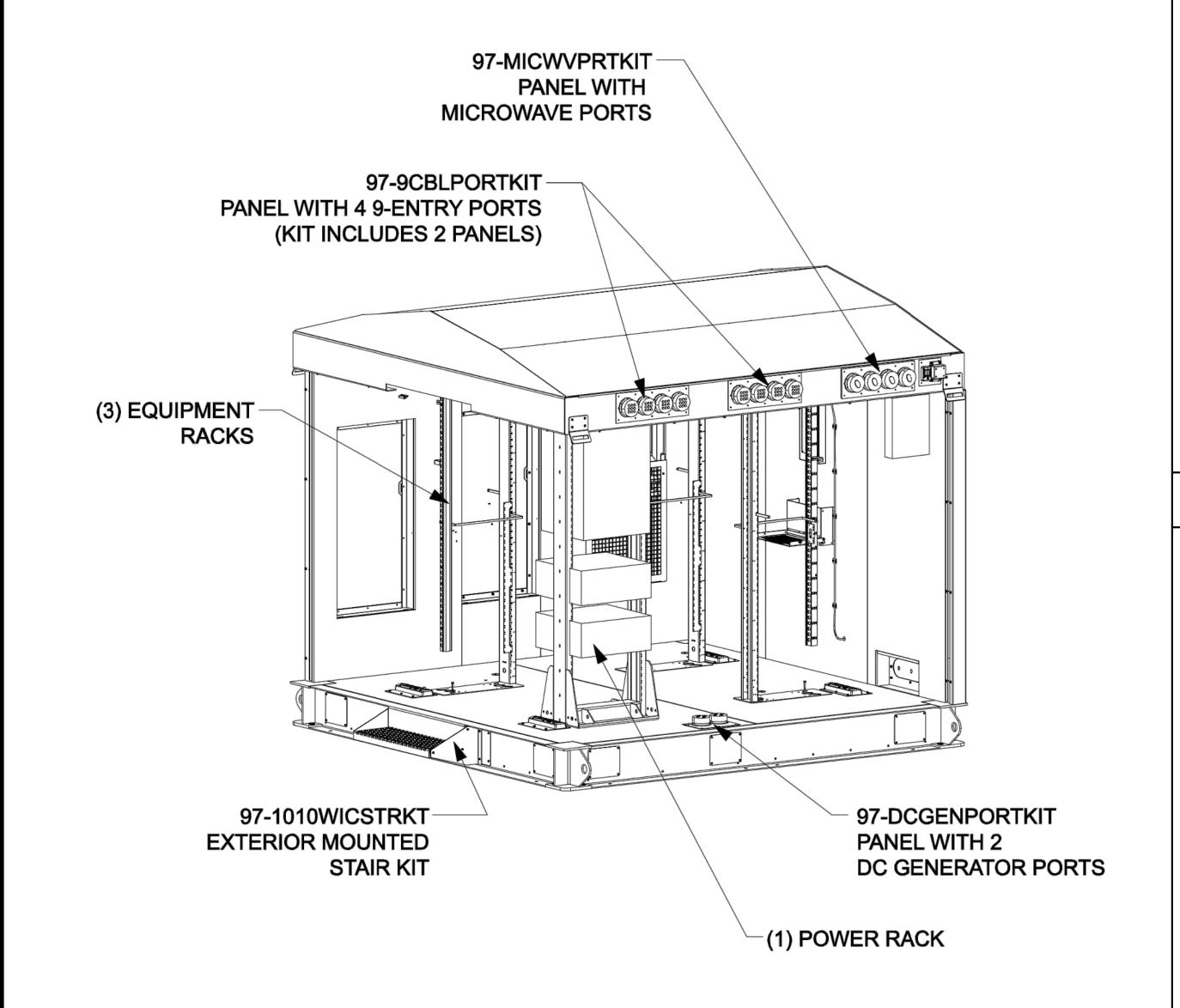
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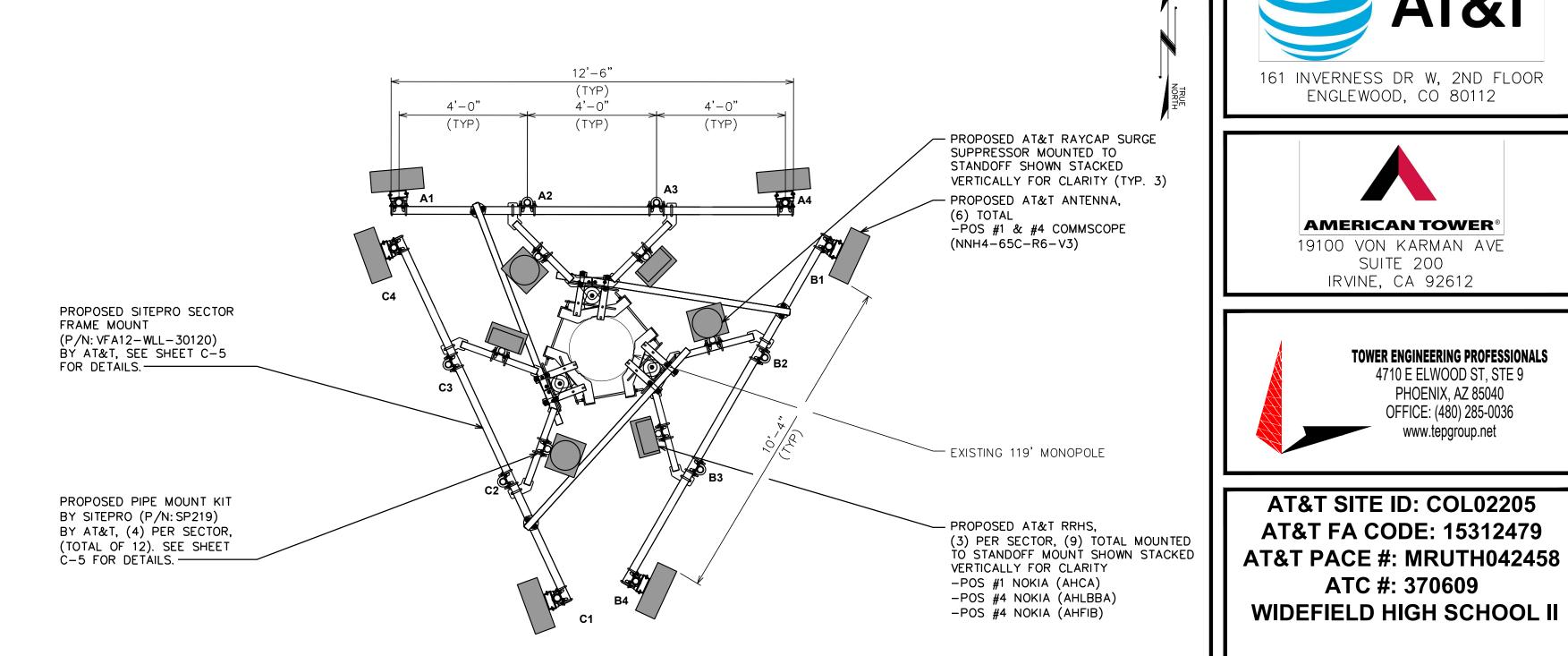
COMPOUND DETAIL

SHEET NUMBER:

REVISION:

TEP #:





FINAL ANTENNA LAYOUT

SCALE: $\frac{3}{8}$ " = 1'-0" (24×36) SCALE: $\frac{3}{16}$ " = 1'-0" (11x17)

SCALE IN FEET

MONOPOLE TOWER **NSB - LTE - 1C/2C/3C/4C/ 5G NR 1SR**

ISSUED FOR: DESCRIPTION EGG PRELIMINARY SDD 90% CONSTRUCTION EGG B 12-14-20 02-18-21 CAK 90% CONSTRUCTION EGG GV 100% CONSTRUCTION EGG 0 04-23-21

SEAL:

161 INVERNESS DR W, 2ND FLOOR

ENGLEWOOD, CO 80112

AMERICAN TOWER® 19100 VON KARMAN AVE SUITE 200 IRVINE, CA 92612

AT&T SITE ID: COL02205

AT&T FA CODE: 15312479

ATC #: 370609

WIDEFIELD HIGH SCHOOL II

527 WIDEFIELD DRIVE

COLORADO SPRINGS,

CO 80911

(EL PASO COUNTY)

EXISTING 119'-0"

TOWER ENGINEERING PROFESSIONALS

4710 E ELWOOD ST, STE 9 PHOENIX, AZ 85040

OFFICE: (480) 285-0036 www.tepgroup.net



April 23, 2021

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET TITLE:

FINAL EQUIPMENT & **ANTENNA LAYOUTS**

SHEET NUMBER: REVISION:

TEP #:

177861.243634

NOTE:

PROPOSED EQUIPMENT IN BOLD

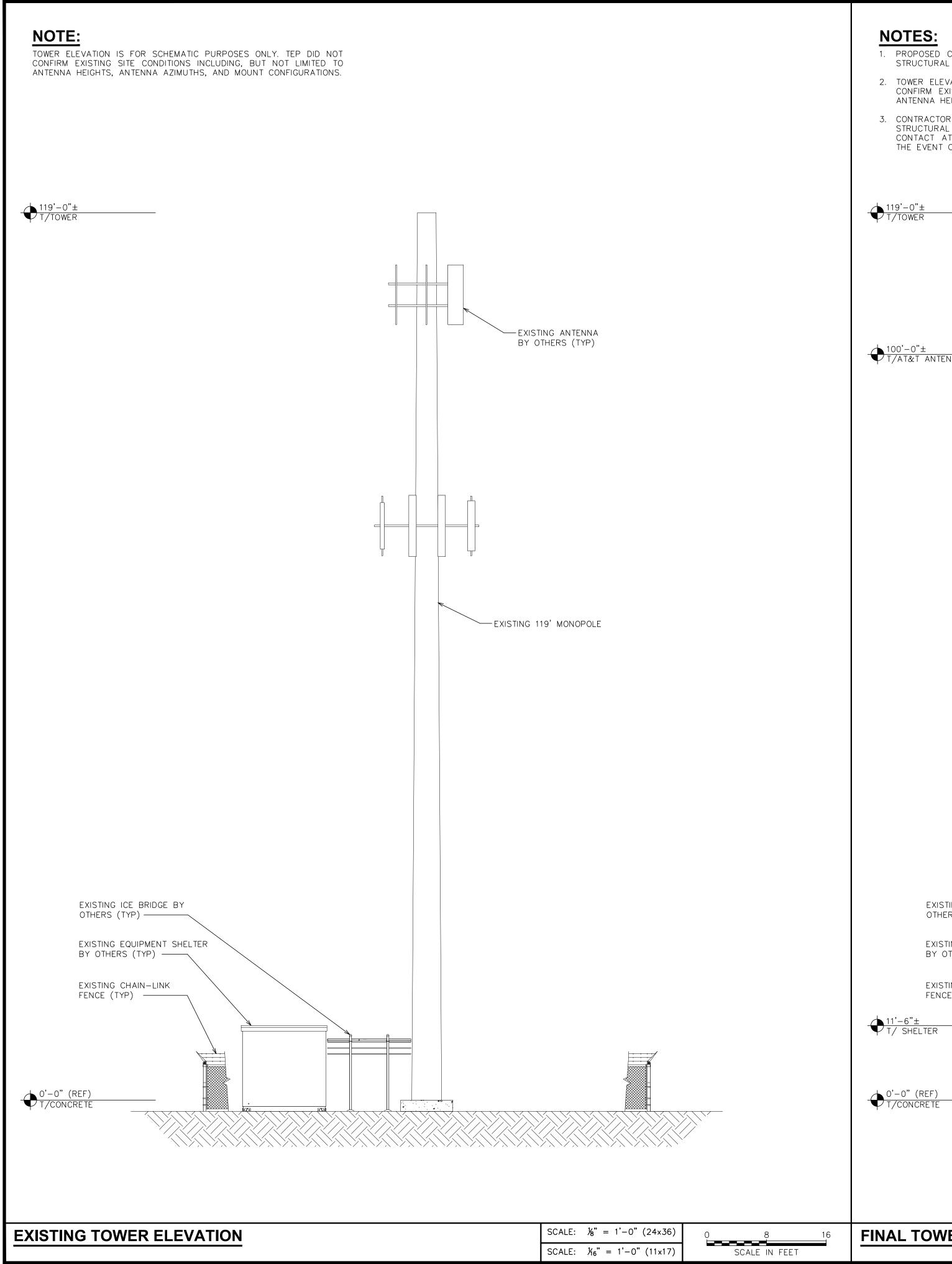
FINAL ANTENNA/FEEDLINE SCHEDULE							
SECTOR	POS.	MANUFACTURER (MODEL #)	ANTENNA TIP HEIGHT	ANTENNA POSITION SEPARATION	CABLE SIZE	CABLE LENGTH	SQUID/RRH/TMA/DIPLEXER [MODEL #]
ALPHA	1	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±				*(1) RAYCAP SQUID [DC9-48-60-24-8C-EV]
ALPHA	2	-	_				*(1) NOKIA RRH [AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA]
ALPHA	3	-	_				*(1) NOKIA RRH [AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB] *(1) NOKIA RRH [AIRSCALE RRH 4T4R B5 160W AHCA]
ALPHA	4	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±				(1) HOMA MAIL [AMOUNTE MAIL TITM BO TOOM AHOA]
ВЕТА	1	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±		(6) 0.92" DC		*(1) RAYCAP SQUID [DC9-48-60-24-8C-EV]
ВЕТА	2	-	_	4'-0"	TRÙNKS 6 AWG 6 (3) 0.39" FIBER	150'±	*(1) RATCAP SQUID [DC9-46-60-24-6C-EV] *(1) NOKIA RRH [AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA] *(1) NOKIA RRH [AIRSCALE DUAL RRH 4T4R
ВЕТА	3	_	_		TRUNKS (6) 2" CONDUITS		B25/66 320W AHFIB] *(1) NOKIA RRH [AIRSCALE DUAL RRH 414R B25/66 320W AHFIB] *(1) NOKIA RRH [AIRSCALE RRH 474R B5 160W AHCA]
ВЕТА	4	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±		(0) 2 CONDOITS		[
GAMMA	1	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±				*(1) RAYCAP SQUID [DC9-48-60-24-8C-EV]
GAMMA	2	-	_				*(1) NOKIA RRH [AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA]
GAMMA	3	_	_				*(1) NOKIA RRH [AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB]
GAMMA	4	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±				*(1) NOKIA RRH [AIRSCALE RRH 4T4R B5 160W AHCA]

*OR SIMILAR
**CONTRACTOR TO REFER TO THE LATEST RFDS FOR FINAL CONFIGURATION

FINAL ANTENNA SCHEDULE

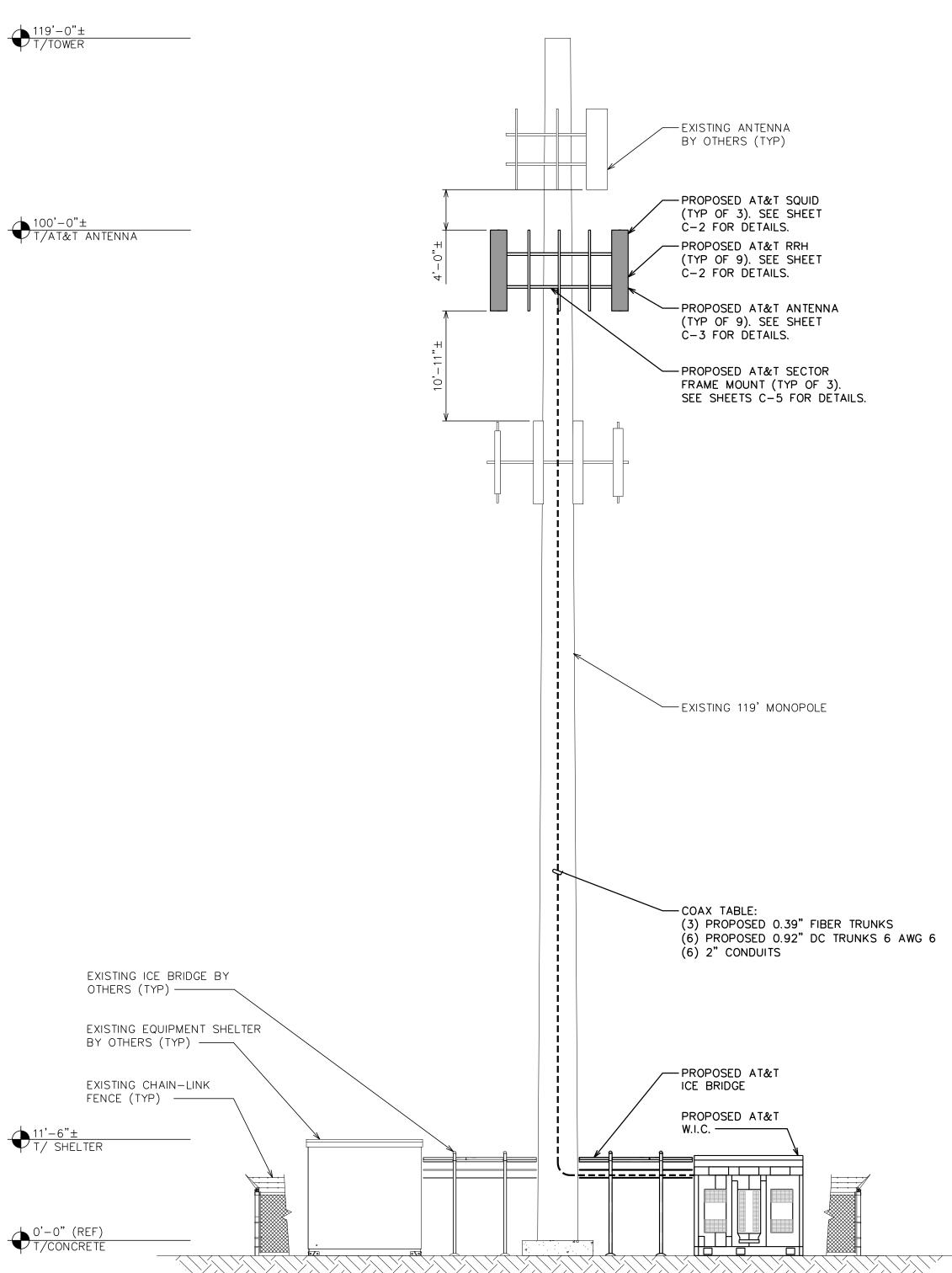
SCALE: N.T.S.

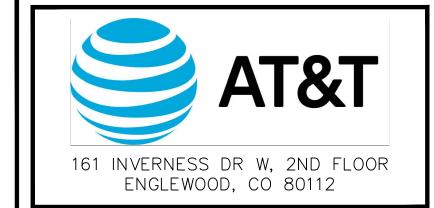
FINAL EQUIPMENT LAYOUT SCALE: N.T.S.



1. PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.

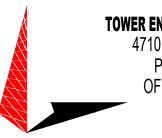
- 2. TOWER ELEVATION IS FOR SCHEMATIC PURPOSES ONLY. TEP DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO ANTENNA HEIGHTS, ANTENNA AZIMUTHS, AND MOUNT CONFIGURATIONS.
- 3. CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT AT&T OR AMERICAN TOWER CORPORATION IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES.







19100 VON KARMAN AVE SUITE 200 IRVINE, CA 92612



TOWER ENGINEERING PROFESSIONALS
4710 E ELWOOD ST, STE 9
PHOENIX, AZ 85040
OFFICE: (480) 285-0036
www.tepgroup.net

AT&T SITE ID: COL02205
AT&T FA CODE: 15312479
AT&T PACE #: MRUTH042458
ATC #: 370609
WIDEFIELD HIGH SCHOOL II

527 WIDEFIELD DRIVE COLORADO SPRINGS, CO 80911 (EL PASO COUNTY) EXISTING 119'-0" MONOPOLE TOWER NSB - LTE - 1C/2C/3C/4C/ 5G NR 1SR

		1991	ED FOR:	
		1330	LD I OK.	
REV	DATE	DRWN	DESCRIPTION	QA
А	11-23-20	KT	PRELIMINARY	EGG
В	12-14-20	SDD	90% CONSTRUCTION	EGG
С	02-18-21	CAK	90% CONSTRUCTION	EGG
0	04-23-21	GV	100% CONSTRUCTION	EGG

SEAL:



April 23, 2021

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SHEET TITLE:

EXISTING AND FINAL ELEVATIONS

SHEET NUMBER:

REVISION:

5-3 0

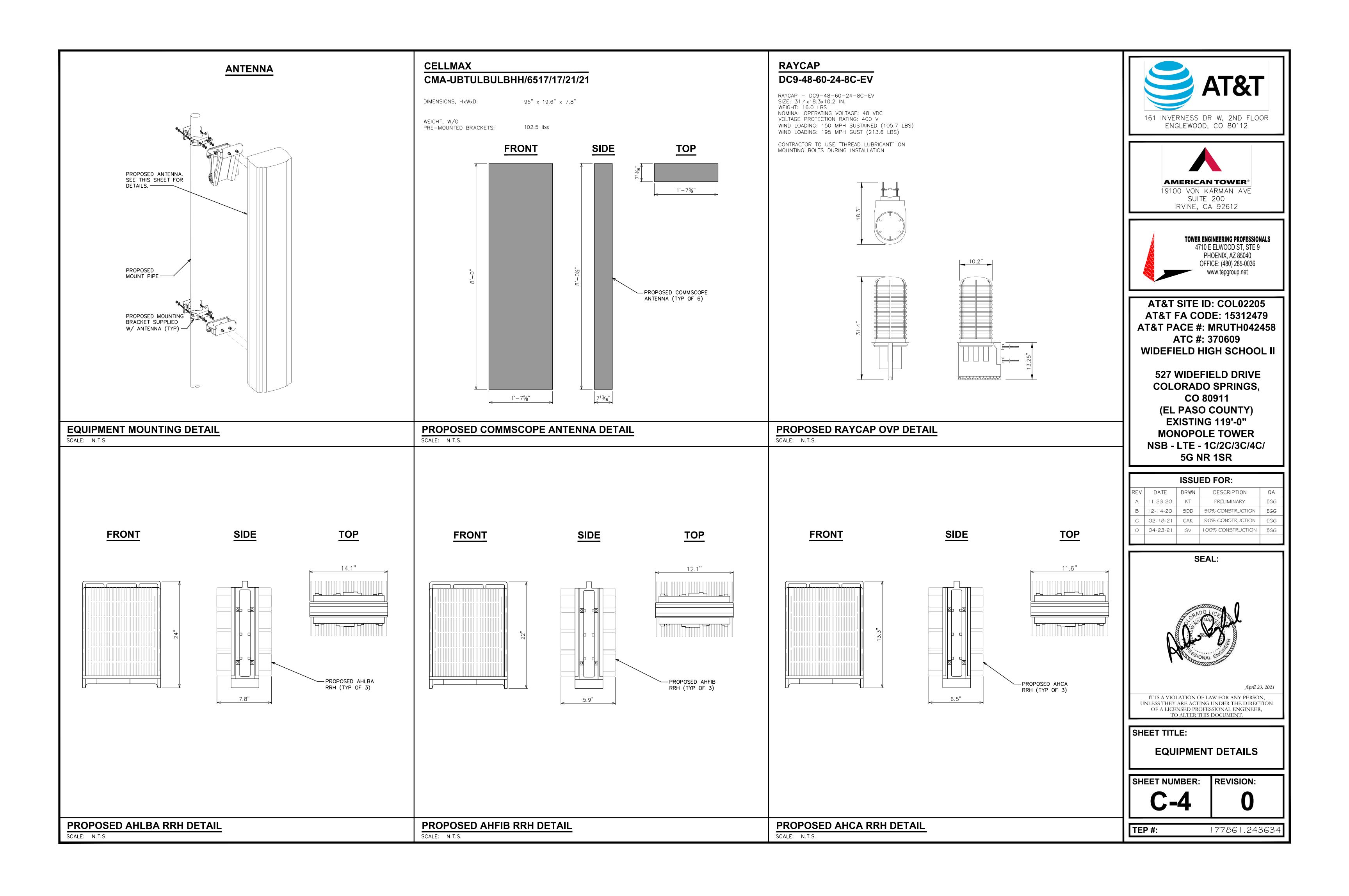
SCALE: $\frac{1}{8}$ " = 1'-0" (24×36)

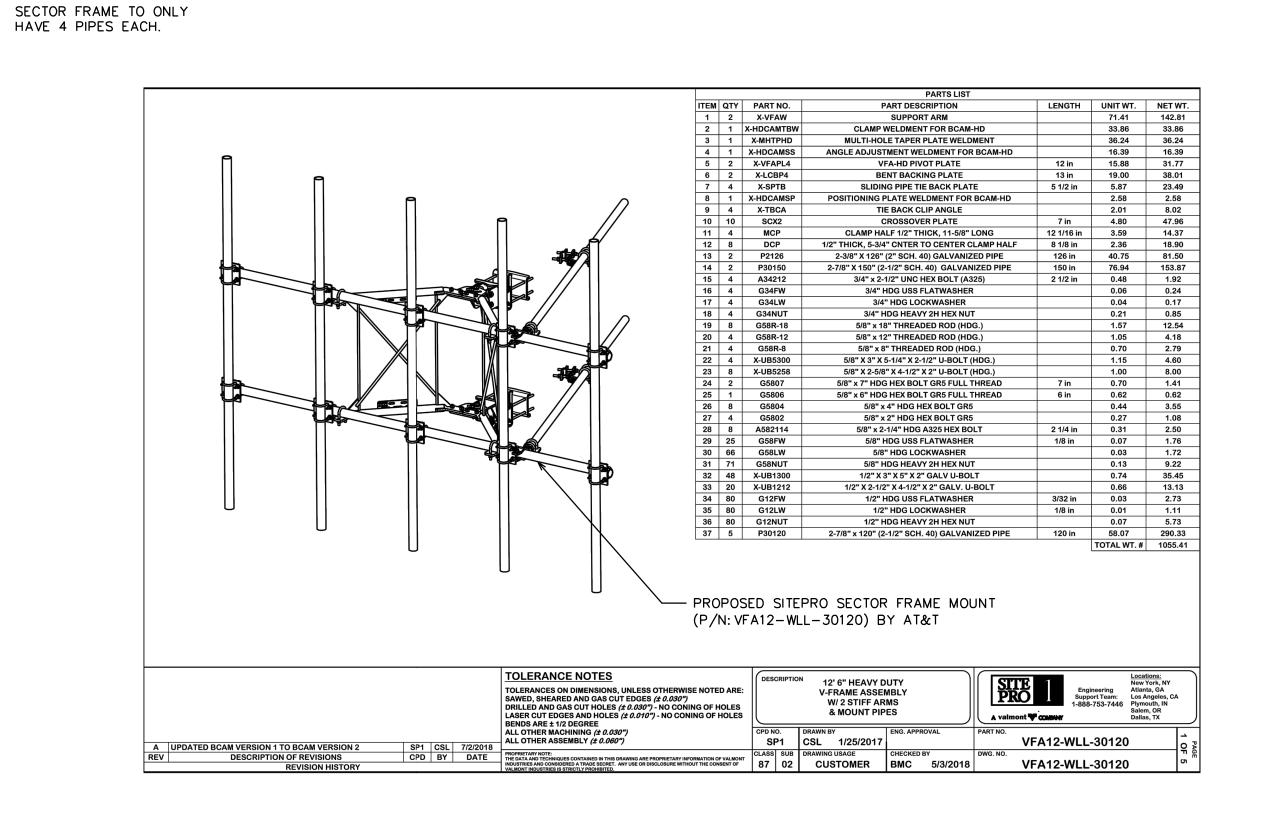
SCALE: $\frac{1}{6}$ " = 1'-0" (11×17)

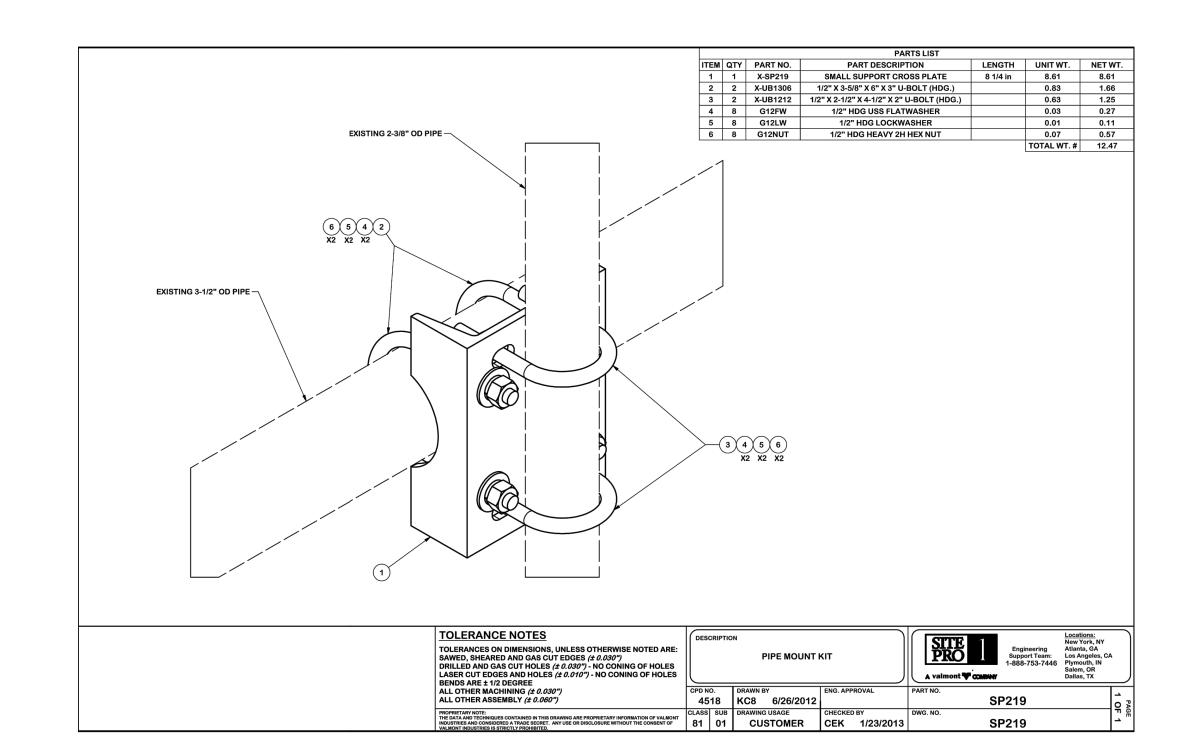
SCALE IN FEET

FINAL TOWER ELEVATION

TEP #:



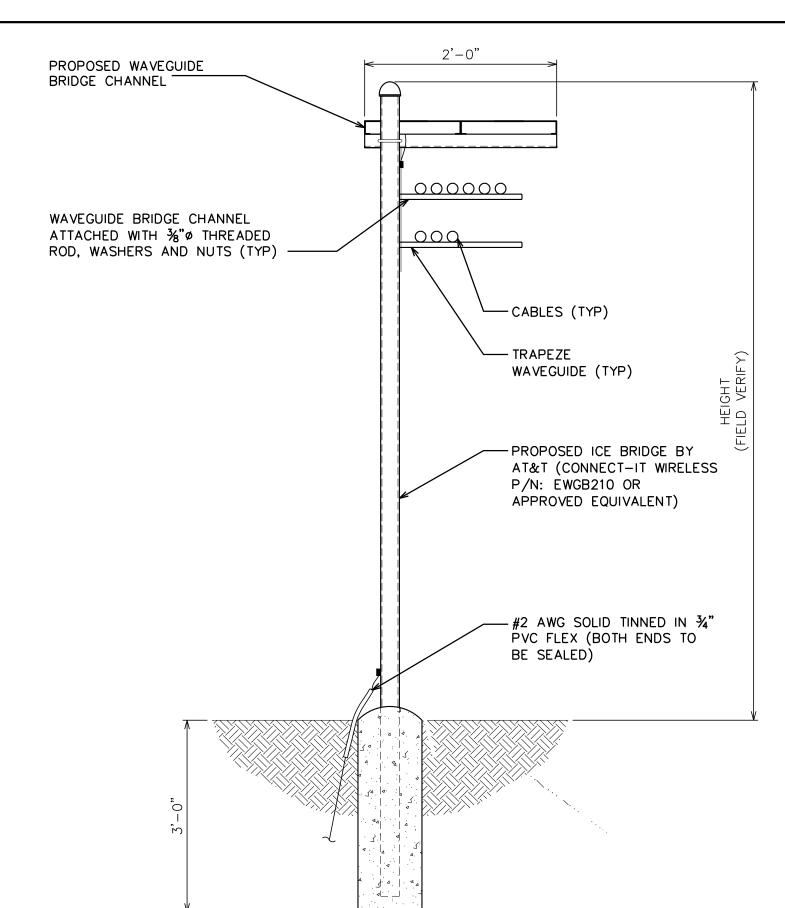




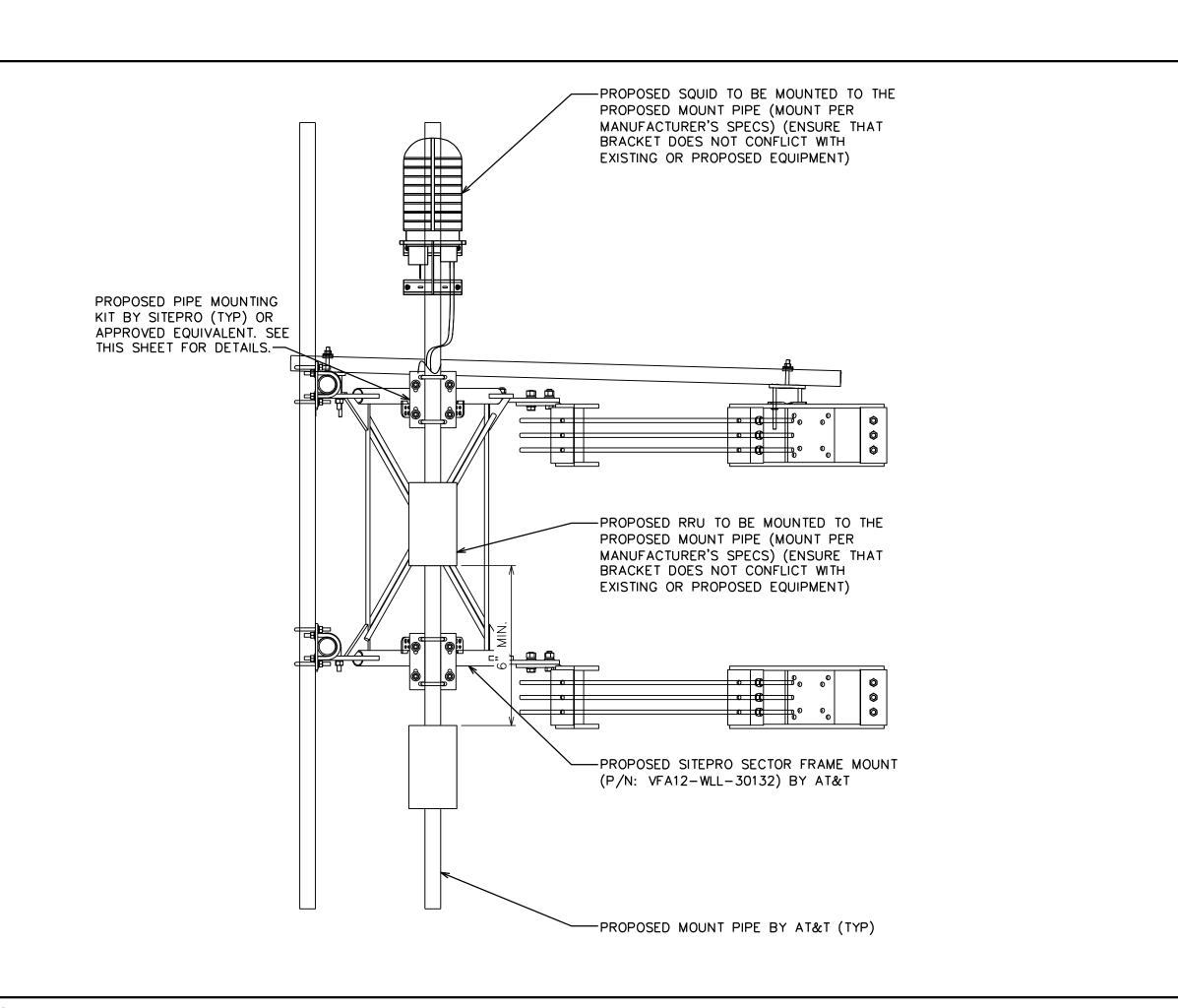


PROPOSED ICE BRIDGE DETAIL

SCALE: N.T.S.



1'-0"









IRVINE, CA 92612

AT&T SITE ID: COL02205
AT&T FA CODE: 15312479
AT&T PACE #: MRUTH042458
ATC #: 370609
WIDEFIELD HIGH SCHOOL II

527 WIDEFIELD DRIVE
COLORADO SPRINGS,
CO 80911
(EL PASO COUNTY)
EXISTING 119'-0"
MONOPOLE TOWER
NSB - LTE - 1C/2C/3C/4C/
5G NR 1SR

-				
		ISSU	ED FOR:	
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0	04-23-21	GV	100% CONSTRUCTION	EGG

SEAL:



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SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER:

REVISION:

TEP #: 177861.243634

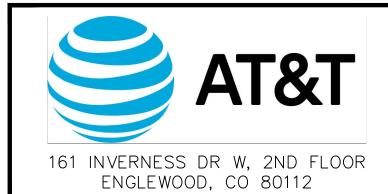
PROPOSED H-FRAME DETAIL

SCALE: N.T.S.



WIC SHELTER DETAIL

SCALE: N.T.S





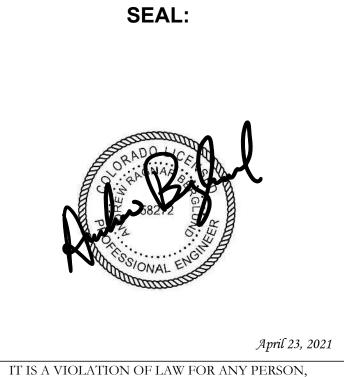
19100 VON KARMAN AVE SUITE 200 IRVINE, CA 92612

TOWER ENGINEERING PROFESSIONALS 4710 E ELWOOD ST, STE 9 PHOENIX, AZ 85040 OFFICE: (480) 285-0036 www.tepgroup.net

AT&T SITE ID: COL02205 **AT&T FA CODE: 15312479 AT&T PACE #: MRUTH042458** ATC #: 370609 WIDEFIELD HIGH SCHOOL II

527 WIDEFIELD DRIVE COLORADO SPRINGS, CO 80911 (EL PASO COUNTY) **EXISTING 119'-0"** MONOPOLE TOWER **NSB - LTE - 1C/2C/3C/4C/ 5G NR 1SR**

			ISSU	ED FOR:	
	REV	DATE	DRWN	DESCRIPTION	QA
-	Α	11-23-20	KT	PRELIMINARY	EGG
	В	12-14-20	SDD	90% CONSTRUCTION	EGG
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	0	04-23-21	GV	100% CONSTRUCTION	EGG



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SHEET TITLE:

WIC SHELTER DETAILS

SHEET NUMBER: | REVISION:

TEP #: 177861.243634 GENERAC INDUSTRIAL

Standby Power Rating 30 kW, 38 kVA, 60 Hz

Prime Power Rating*

27 kW, 34 kVA, 60 Hz

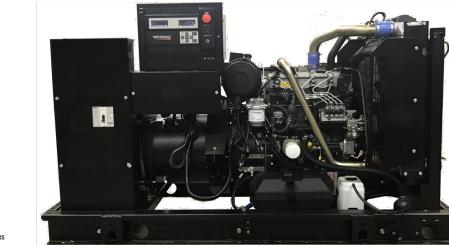


Image used for illustration purposes only

USA ENGINEERED & BUILT! *EPA Certified Prime ratings are not available in the US or its Territories

Codes and Standards Not all codes and standards apply to all configurations. Contact

factory for details. UL2200, UL508, UL489, UL142



CSA C22.2

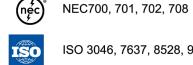
BS5514 and DIN 6271



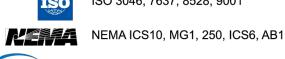
SAE J1349



NFPA 37, 70, 99, 110



ISO 3046, 7637, 8528, 9001



ANSI C62.41

Generac ensures superior quality by designing and manufacturing most of its generator components, systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial

support continues after their generator purchase.

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

including alternators, enclosures and base tanks, control

applications under adverse conditions.

Generac is committed to ensuring our customers' service

GENERAC INDUSTRIAL

APPLICATION AND ENGINEERING DATA

EPA Certified Stationary Emergency

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

General		Cooling System	
Make	Perkins	Cooling System Type	Closed Recovery
EPA Emissions Compliance	Stationary Emergency	Water Pump Type	Pre-Lubed, Self Sealing
EPA Emissions Reference	See Emission Data Sheet	Fan Type	Pusher
Cylinder #	4	Fan Speed - RPM	1,980
Туре	In-Line	Fan Diameter - in (mm)	18 (457)
Displacement - in ³ (L)	135 (2.22)		
Bore - in (mm)	3.3 (84)	Fuel System	
Stroke - in (mm)	3.9 (100)	Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Compression Ratio	23.3:1	Fuel Specifications	ASTM
Intake Air Method	Turbocharged	Fuel Filtering (Microns)	5
Cylinder Head	Cast Iron	Fuel Inject Pump	Distribution Injection Pump
Piston Type	Aluminum	Fuel Pump Type	Engine Driven Gear
Crankshaft Type	Forged Steel	Injector Type	Mechanical
		Fuel Supply Line - in (mm)	0.31 (7.9) ID
Engine Governing		Fuel Return Line - in (mm)	0.2 (4.8) ID
Governor	Electronic Isochronous		
Frequency Regulation (Steady State)	±0.5%	Engine Electrical System	
Lubalestian Custom		System Voltage	12 VDC
Lubrication System		Battery Charger Alternator	Standard
Oil Pump Type	Gear	Battery Size	See Battery Index 0161970SBY

ALTERNATOR SPECIFICATIONS			
Standard Model	K0035124Y21	Standard Excitation	Brushless
Poles	4	Bearings	Single Sealed
Field Type	Revolving	Coupling	Direct via Flexible Disc
Insulation Class - Rotor	Н	Load Capacity - Standby	100%
Insulation Class - Stator	Н	Prototype Short Circuit Test	Yes
Total Harmonic Distortion	<5% (3-Phase)	Voltage Regulator Type	Digital
Telephone Interference Factor (TIF)	< 50	Number of Sensed Phases	All

Regulation Accuracy (Steady State) ±0.25%

ALTERNATOR SYSTEM UL2200 GENprotect[™]

 Oil Drain Extension Air Cleaner Fan Guard

EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

Fuel Lockoff Solenoid

Primary Fuel Filter

Cooling System

Electrical System

Battery Cables

Battery Tray

Battery Charging Alternator

CONTROL SYSTEM

Program Functions

Programmable Crank Limiter

7-Day Programmable Exerciser

RS-232/485 Communications

Date/Time Fault History (Event Log)

Isochronous Governor Control

· Waterproof/Sealed Connectors

2-Wire Start Capability

 Rubber-Booted Engine Electrical Connections Solenoid Activated Starter Motor

Digital H Control Panel- Dual 4x20 Display

Special Applications Programmable Logic Controller

All Phase Sensing Digital Voltage Regulator

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

- Class H Insulation Material 2/3 Pitch Stainless Steel Flexible Exhaust Connection Skewed Stator Factory Filled Oil and Coolant Brushless Excitation Radiator Duct Adapter (Open Set Only)
- Sealed Bearing Rotor Dynamically Spin Balanced Critical Silencer (Enclosed Unit Only) Engine Coolant Heater Amortisseur Winding (3-Phase Only) Full Load Capacity Alternator Fuel System Protective Thermal Switch
 - GENERATOR SET Internal Genset Vibration Isolation Separation of Circuits - High/Low Voltage
- Separation of Circuits Multiple Breakers Closed Coolant Recovery System Wrapped Exhaust Piping UV/Ozone Resistant Hoses Standard Factory Testing Factory-Installed Radiator Radiator Drain Extension • 50/50 Ethylene Glycol Antifreeze
 - 2 Year Limited Warranty (Standby Rated Units) 1 Year Limited Warranty (Prime Rated Units) Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

Audible Alarms and Shutdowns

Not in Auto (Flashing Light)

Auto/Off/Manual Switch

Modbus[®] Protocol

Sealed Boards

Single Point Ground

E-Stop (Red Mushroom-Type)

Predictive Maintenance Algorithm

16 Channel Remote Trending

• NFPA110 Level I and II (Programmable)

- Fuel Level Check Valve In Supply and Return Lines RhinoCoat™- Textured Polyester Powder Coat Paint Stainless Steel Hardware
 - Oil Pressure
- Coolant Temperature Coolant Level Engine Speed Battery Voltage Customizable Alarms, Warnings, and Events Frequency

GENERAC INDUSTRIAL

ENCLOSURE (If Selected)

Stamped Air-Intake Louvers

Upward Facing Discharge Hoods (Radiator and Exhaust)

Stainless Steel Lockable Handles

FUEL TANKS (If Selected)

Normal and Emergency Vents

Factory Pressure Tested

Rupture Basin Alarm

UL 142/ULC S601

Double Wall

Sloped Top

Sloped Bottom

Stainless Steel Lift Off Door Hinges

Rust-Proof Fasteners with Nylon Washers to

High Performance Sound-Absorbing Material

RhinoCoat[™] - Textured Polyester Powder Coat Paint

(Sound Attenuation Enclosures)

Alarms and Warnings Oil Pressure

Alarms and Warnings Spelled Out (No Alarm Codes)

- Password Parameter Adjustment Protection Coolant Temperature Coolant Level Engine Overspeed
- 0.2 msec High Speed Remote Trending Battery Voltage Alarm Information Automatically Annunciated Alarms and Warnings Time and Date Stamped Snap Shots of Key Operation Parameters During on the Display Alarms and Warnings
- Power Factor kW Hours, Total, and Last Run Real/Reactive/Apparent Power All Phase AC Voltage

Full System Status Display

Power Output (kW)

All Phase Currents

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Heater Critical Silencer (Open Set Only) O Radiator Stone Guard
- Level 1 Fan and Belt Guards (Open Set Only) **FUEL SYSTEM**

NPT Flexible Fuel Line **ELECTRICAL SYSTEM**

 10A UL Listed Battery Charger Battery Warmer

ALTERNATOR SYSTEM Alternator Upsizing Anti-Condensation Heater

 Permanent Magnet Excitation **GENERATOR SET**

Tropical Coating

Extended Factory Testing 8 Position Load Center Pad Vibration Isolation

ENGINEERED OPTIONS ENGINE SYSTEM

Coolant Heater Isolation Ball Valves Fluid Containment Pan

SD030 | 2.2L | 30 kW

CONTROL SYSTEM O Spare Inputs (x4) / Outputs (x4) Battery Disconnect Switch

GENERAC INDUSTRIAL

Remote Relay Assembly (8 or 16)

Oil Temperature Indication and Alarm

Remote E-Stop (Red Mushroom-Type,

Surface Mount)

100 dB Alarm Horn

O Ground Fault Annunciation

10A Engine Run Relay

120V GFCI and 240V Outlets

O 8 in (203.2 mm) Fill Extension

13 in (330.2 mm) Fill Extension

O 19 in (482.6 mm) Fill Extension

5 Gallon Spill Box Return Hose

Fuel Level Switch and Alarm

Fire Rated Stainless Steel Fuel Hose

GENERAC INDUSTRIAL

Part No. 10000024842

Rev. B 08/27/18

Overfill Protection Valve

○ 5 Gallon Spill Box

12' Vent System

Tank Risers

FUEL TANKS

O Remote Communication - Modem

FUEL TANKS (Size On Last Page)

O Remote E-Stop (Break Glass-Type, Surface Mount)

Remote E-Stop (Red Mushroom-Type, Flush Mount)

CIRCUIT BREAKER OPTIONS CONTROL SYSTEM O NFPA 110 Compliant 21-Light Remote Annunciator

- Main Line Circuit Breaker O 2nd Main Line Circuit Breaker O Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

ENCLOSURE O Weather Protected Enclosure

- Level 1 Sound Attenuation Level 2 Sound Attenuation Level 2 Sound Attenuation with Motorized Dampers Steel Enclosure
- Aluminum Enclosure Up to 200 MPH Wind Load Rating (Contact Factory O AC/DC Enclosure Lighting Kit
 - Door Alarm Switch Enclosure Heater O Damper Alarm Contacts

WARRANTY (Standby Gensets Only) 2 Year Extended Limited Warranty 5 Year Limited Warranty 5 Year Extended Limited Warranty

7 Year Extended Limited Warranty 10 Year Extended Limited Warranty

ALTERNATOR SYSTEM

3rd Breaker System O UL2085 Tank Stainless Steel Tanks **GENERATOR SET** Special Fuel Tanks Special Testing Vent Extensions

161 INVERNESS DR W, 2ND FLOOR ENGLEWOOD, CO 80112



19100 VON KARMAN AVE

SUITE 200

IRVINE, CA 92612



AT&T SITE ID: COL02205 **AT&T FA CODE: 15312479 AT&T PACE #: MRUTH042458** ATC #: 370609 WIDEFIELD HIGH SCHOOL II

527 WIDEFIELD DRIVE COLORADO SPRINGS, CO 80911 (EL PASO COUNTY) **EXISTING 119'-0" MONOPOLE TOWER** NSB - LTE - 1C/2C/3C/4C/ **5G NR 1SR**

1				
		ISSU	ED FOR:	
REV	DATE	DRWN	DESCRIPTION	QA
Α	11-23-20	KT	PRELIMINARY	EGG
В	12-14-20	SDD	90% CONSTRUCTION	EGG
С	02-18-21	CAK	90% CONSTRUCTION	EGG
0	04-23-21	GV	100% CONSTRUCTION	EGG



SEAL:



April 23, 2021 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION

SHEET TITLE:

GENERATOR DETAILS

OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:

REVISION:

TEP #: 177861.243634

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/240 VAC @1.0pf	30 kW	Amps: 125
Three-Phase 120/208 VAC @0.8pf	30 kW	Amps: 104
hree-Phase 120/240 VAC @0.8pf	30 kW	Amps: 90
Three-Phase 277/480 VAC @0.8pf	30 kW	Amps: 45
Three-Phase 346/600 VAC @0.8pf	30 kW	Amps: 36

MOTOR STARTING CAPABILITIES (skVA) skVA vs. Voltage Dip 277/480 VAC 30% 208/240 VAC 30%
 K0035124Y21
 61
 K0035124Y21
 46

 K0040124Y21
 76
 K0040124Y21
 58
 K0050124Y21 98 K0050124Y21 75

FUEL CONSUMPTION RAT

	Diesel - gph (Lph)		
Fuel Pump Lift- ft (m)	Percent Load	Standby	
3 (1)	25%	1.0 (3.7)	
	50%	1.4 (5.2)	
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	75%	2.0 (7.5)	
16.6 (63)	100%	2.8 (10.5)	
	* Fuel supply installation m consumption rates at 100		

COOLING

Exhaust Flow (Rated Output) Max. Allowable Backpressure (Post Turbocharger) inHg (kPa) Exhaust Temp (Rated Output) psi (kPa) 159 (1,096)

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Prime - See Bulletin 0187510SSB

GENERAC INDUSTRIAL

ATES*			
	Diesel - gph (Lph)		
Fuel Pump Lift- ft (m)	Percent Load	Standby	
3 (1)	25%	1.0 (3.7)	
	50%	1.4 (5.2)	
ll Fuel Pump Flow (Combustion + Return) - gph (Lph)	75%	2.0 (7.5)	
16.6 (63)	100%	2.8 (10.5)	

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

14.9 (56.2) Coolant System Capacity Maximum Operating Ambient Temperature Maximum Operating Ambient Temperature (Before Derate) See Bulletin No. 0199280SSD 0.5 (0.12) Maximum Radiator Backpressure in H₂O (kPa) **COMBUSTION AIR REQUIREMENTS** Flow at Rated Power scfm (m3/min) 88 (2.5) 296.6 (8.4) Rated Engine Speed Horsepower at Rated kW* 892 (478)

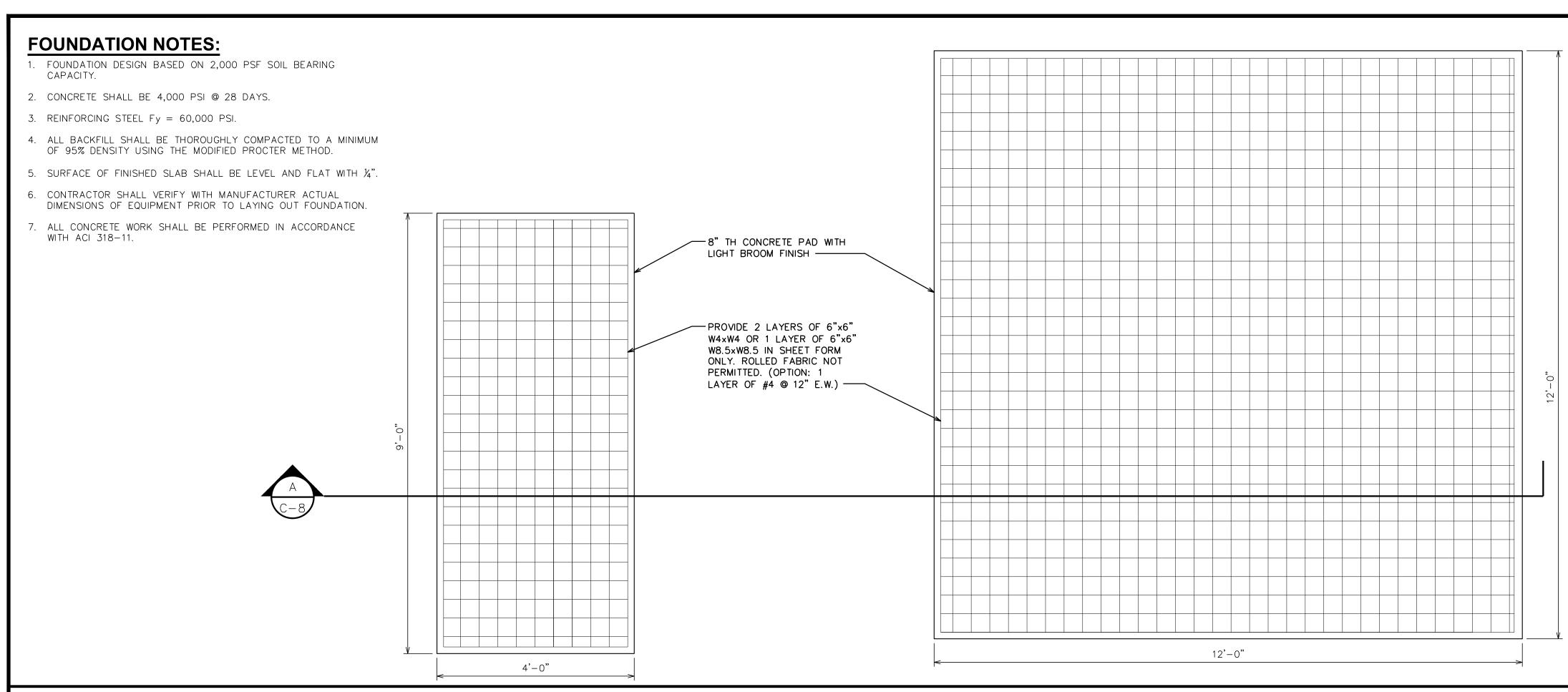
INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency **DIMENSIONS AND WEIGHTS*** LxWxH-in (mm) - lbs (kg) 76.0 (1,930) x 37.4 (950) x 44.8 (1,138) 76.0 (1,930) x 37.4 (950) x 57.8 (1,468) 47 132 (501) 76.0 (1,930) x 37.4 (950) x 69.8 (1,773) 2,351 (1,067) 75 211 (799) 76.0 (1,930) x 37.4 (950) x 81.8 (2,078) 2,560 (1,162) 107 300 (1,136) 92.9 (2,360) x 37.4 (950) x 81.8 (2,078) 2,623 (1,190) **WEATHER PROTECTED ENCLOSURE** Weight - Ibs (kg) Enclosure Only Time Capacity - Hours - Gal (L) Steel Aluminum No Tank 94.8 (2,409) x 38.0 (965) x 49.5 (1,258) 94.8 (2,409) x 38.0 (965) x 62.5 (1,588) 132 (501) 94.8 (2,409) x 38.0 (965) x 74.5 (1,893) 372 (170) (110) 75 211 (799) 94.8 (2,409) x 38.0 (965) x 86.5 (2,198) 107 300 (1,136) 94.8 (2,409) x 38.0 (965) x 86.5 (2,198) LEVEL 1 ACOUSTIC ENCLOSURE Enclosure Only Capacity - Gal (L) L x W x H - in (mm) Steel Aluminum 112.5 (2,857) x 38.0 (965) x 49.5 (1,258) 54 (204) 112.5 (2,857) x 38.0 (965) x 62.5 (1,582) 132 (501) 112.5 (2,857) x 38.0 (965) x 74.5 (1,893) (230) (154) 211 (799) 112.5 (2,857) x 38.0 (965) x 86.5 (2,198) 107 300 (1,136) 112.5 (2,857) x 38.0 (965) x 86.5 (2,198) **LEVEL 2 ACOUSTIC ENCLOSURE** Weight - lbs (kg) Enclosure Only L x W x H - in (mm) Capacity 94.8 (2,407) x 38.0 (965) x 61.1 (1,551) 54 (204) 94.8 (2,407) x 38.0 (965) x 74.1 (1,881) 132 (501) 94.8 (2,407) x 38.0 (965) x 86.1 (2,186) (232) (155) 75 211 (799) 94.8 (2,407) x 38.0 (965) x 98.1 (2,491) 107 300 (1,136) 94.8 (2,407) x 38.0 (965) x 98.1 (2,491)

* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings. Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53189

P: (262) 544-4811 ©2018 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.

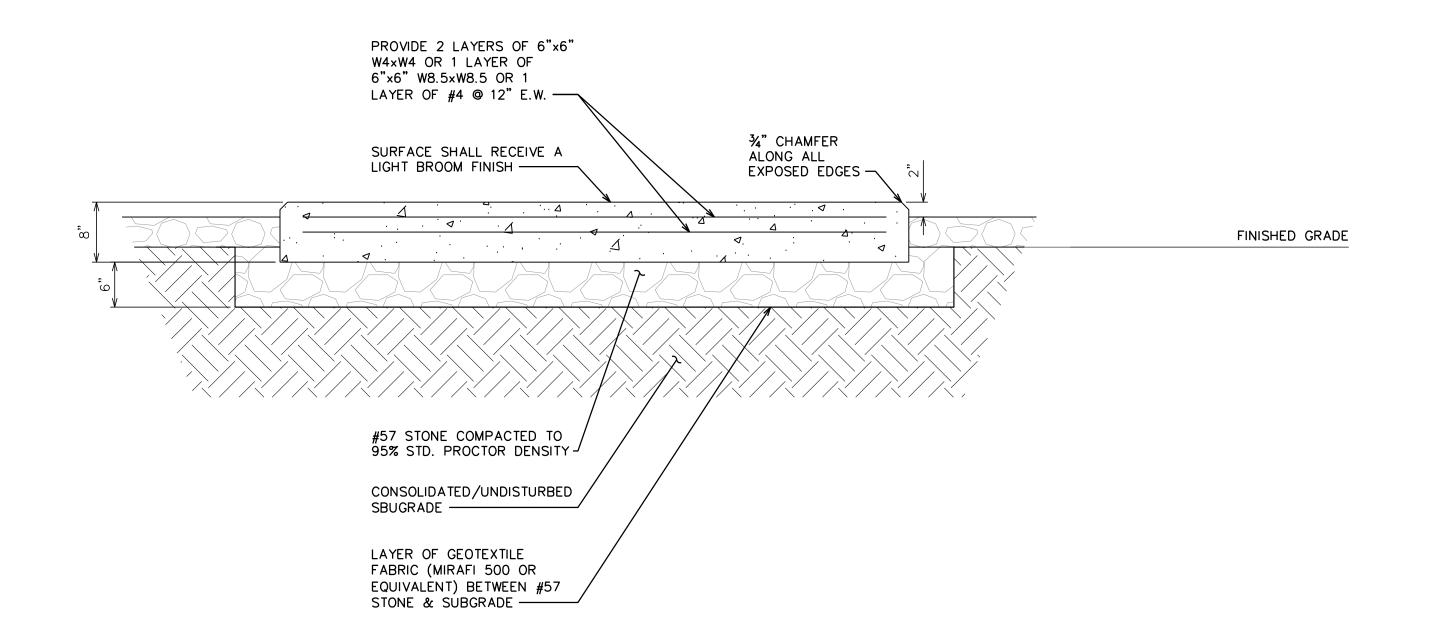
SD030 2.2L 30kW GENERATOR DETAILS

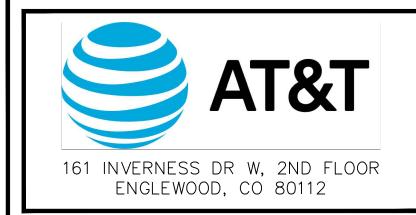
SCALE: N.T.S



WIC & GENERATOR FOUNDATION PLAN

SCALE: N.T.S







19100 VON KARMAN AVE SUITE 200 IRVINE, CA 92612



AT&T SITE ID: COL02205
AT&T FA CODE: 15312479
AT&T PACE #: MRUTH042458
ATC #: 370609
WIDEFIELD HIGH SCHOOL II

527 WIDEFIELD DRIVE COLORADO SPRINGS, CO 80911 (EL PASO COUNTY) EXISTING 119'-0" MONOPOLE TOWER NSB - LTE - 1C/2C/3C/4C/ 5G NR 1SR

ISSUED FOR:					
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0	04-23-21	GV	100% CONSTRUCTION	EGG	

SEAL:



April 23, 2021

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SHEET TITLE:

FOUNDATION DETAILS

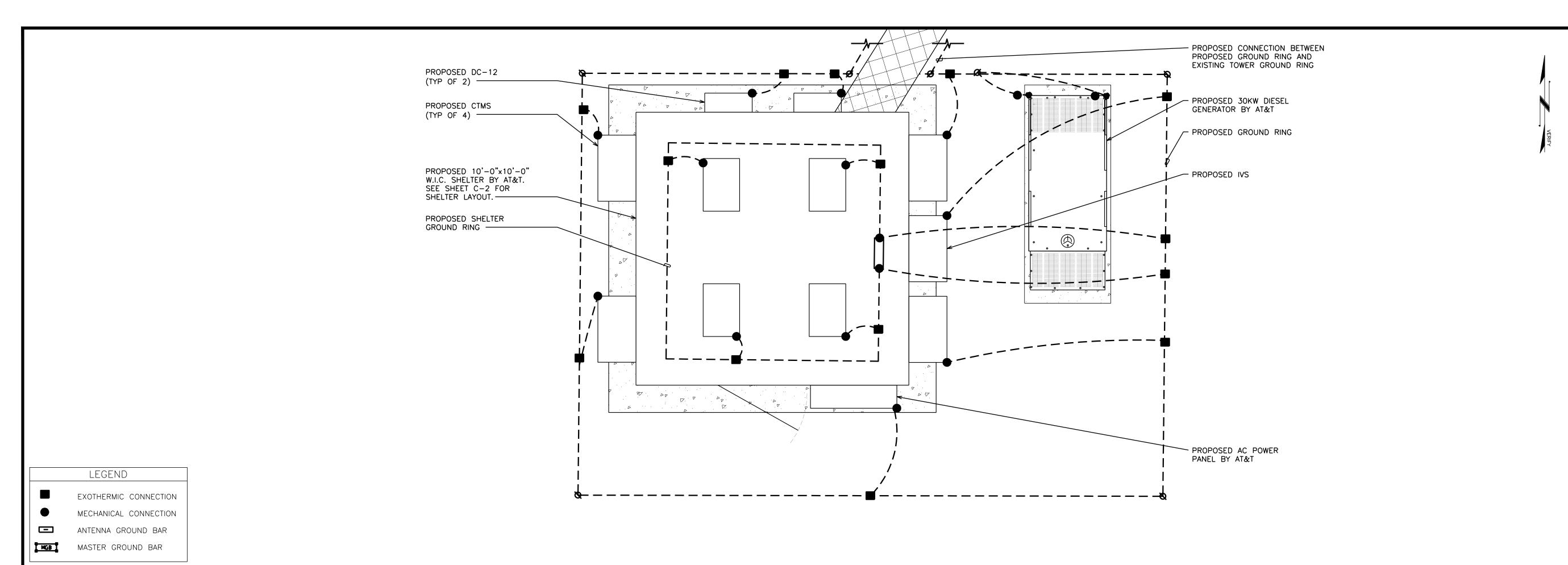
SHEET NUMBER:

REVISION:

177861.243634

PAD SECTION A
SCALE: N.T.S
C-8

ГЕР #:

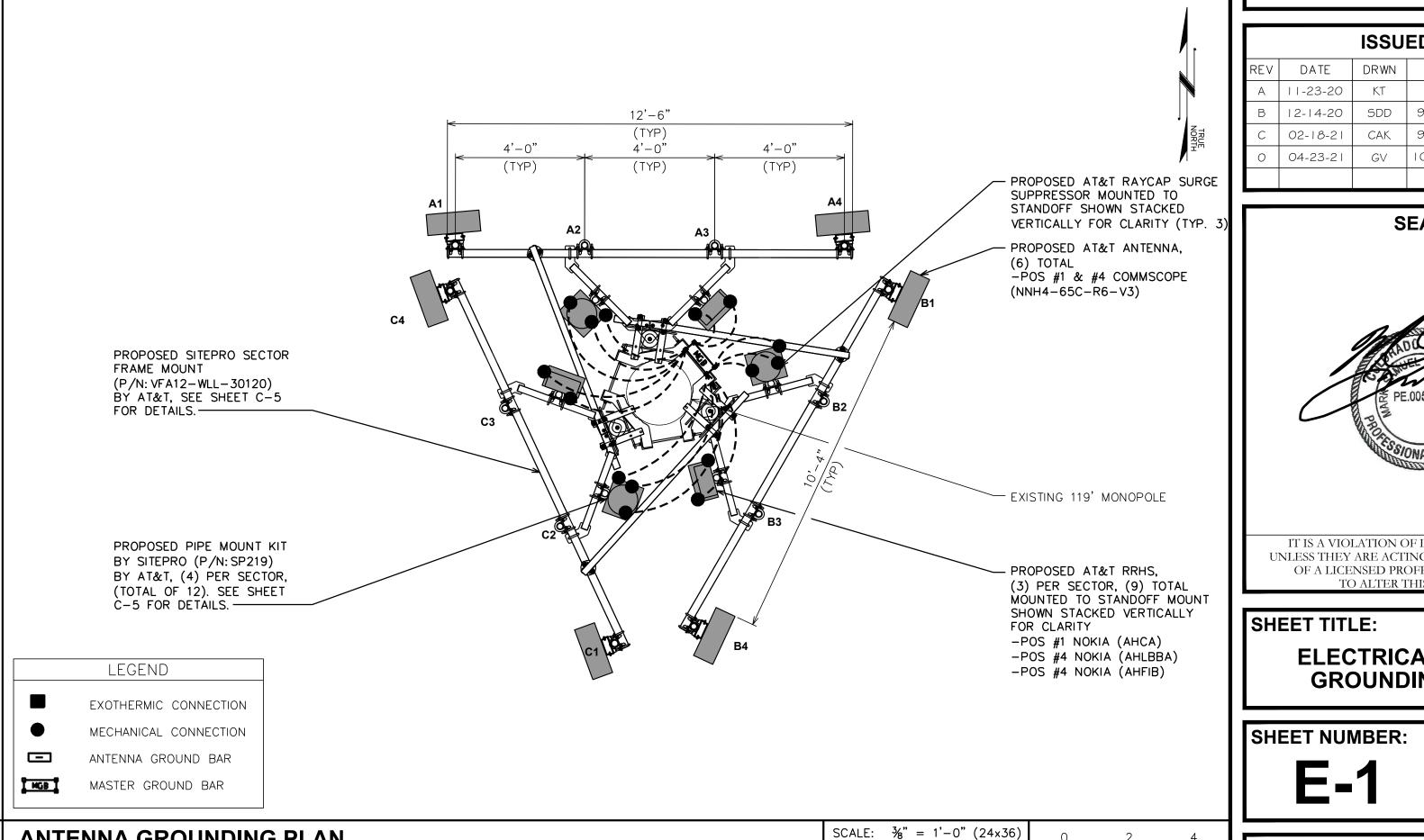


EQUIPMENT GROUNDING PLAN

NOTE:

PROPOSED PANEL SCHEDULE VALUES WERE CALCULATED BASED ON MAXIMUM PULL FROM EACH CONNECTED BREAKER. ACTUAL VALUES WILL VARY BASED ON SITE CONDITIONS.

PROPOSED PANEL SCHEDULE											
120/240 VOLTS 1 PHASE SU						3 WIRE RFACE MOUNTED			225A, 2 POLE MAIN BREAKER		
NO.	LOAD SERVED	ØA VA	ØB VA	AMP / POLE	L1	L2	AMP / POLE	ØA VA	ØB VA	LOAD SERVED	NO.
1		2880	_	70 /0	5760	_	70 /0	2880	_		2
3	RECTIFIERS #1 & #2	_	2880	30/2	_	5760	30/2	30/2 - 2880		RECTIFIERS #3 & 4	4
5		2880	_	70./0	2880	_	70 (0		_	00.105 (055	6
7	RECTIFIERS #5 & 6	_	2880	30/2	_	2880	30/2	_	0	SPARE/OFF	8
9	SDADE /OFF	0	_	70 /0	0	_	70 /2	0	_	CDADE /OFF	10
11	SPARE/OFF	_	0	30/2	_	0	30/2	_	0	SPARE/OFF	12
13	SPARE/OFF	0	_	30/2	0		30/2	0	_	CDADE /OFF	14
15	SPARE/OFF	_	0	30/2	_	0	30/2	_	0	SPARE/OFF	16
17	SPARE/OFF	0	_	30/2	0	-	30/2	0	_	CDADE (OFF	18
19	SPARE/OFF	_	0	30/2	_	0	30/2	_	0	SPARE/OFF	20
21	SPARE/OFF	0	_	30/2	0	_	30/2	0	-	SPARE/OFF	22
23	SPARL/OFF	_	0	30/2	_	0	30/2	_	0	SPARE/OFF	24
25	AC UNIT #1	1920	_	20/1	2570	_	20/1	650	_	GEN BATT CHARGER	26
27	BLANK	_	_	_	_	1000	20/1	_	1000	GEN BLOCK HEATER	28
29	BLANK	_	_	_	0	_	_	_	_	BLANK	30
31	BLANK	_	_	_	_	0	_	_	_	BLANK	32
33	BLANK	_	_	_	0	-	_	_	_	BLANK	34
35	BLANK	_	_	_	_	0	_	_	_	BLANK	36
37	BLANK	_	_	_	0	_	_	_	_	BLANK	38
39	BLANK	_	_	_	_	0	_	_	_	BLANK	40
PHASE TOTALS (VA)					11210	9640					
CURRENT PER PHASE (A)					94	81					
PEAK TOTAL (VA)					11210	94	PEAK TOTAL (A)				
125% DEMAND (VA) 1.						117.5			125	5% DEMAND (A)	



SCALE: $\frac{1}{2}$ " = 1'-0" (24×36)

SCALE: $\frac{1}{4}$ " = 1'-0" (11×17)

SCALE: $\frac{3}{16}$ " = 1'-0" (11x17)

SCALE IN FEET

SCALE IN FEET





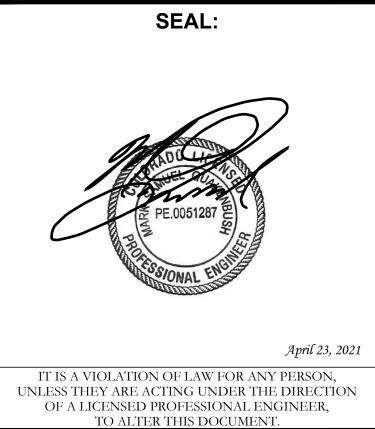
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SHEET TITLE:

ELECTRICAL PANEL & GROUNDING PLANS

REVISION:

TEP #: 177861.243634

PROPOSED A/C PANEL

SCALE: N.T.S.

ANTENNA GROUNDING PLAN

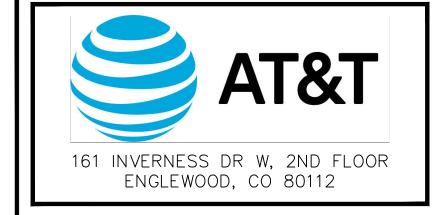
GENERAL NOTES:

- 1. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH POWER COMPANY AND ENSURE ALL ELECTRICAL EQUIPMENT IS SUITABLE FOR AVAILABLE FAULT CURRENT.
- 2. CONTRACTOR SHALL COORDINATE UTILITY SERVICES WITH LOCAL UTILITY COMPANIES. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY STANDARDS.
- 3. ONE-LINE DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY AND IS NOT INDICATIVE OF THE ACTUAL EQUIPMENT LAYOUT.
- 4. CONTRACTOR SHALL LABEL METER SOCKET WITH SERVICE OWNER NAMEPLATE WITH ½" HEIGHT MINIMUM LETTERS.
- 5. ALL EQUIPMENT WILL HAVE A MINIMUM AIC OF 10 KA. CONTRACTOR TO DETERMINE AVAILABLE FAULT CURRENT BEFORE ENERGIZING EQUIPMENT. THE AMOUNT OF AVAILABLE FAULT CURRENT SHALL BE MARKED ON THE SERVICE EQUIPMENT PER NEC 110.24.
- 6. CONTRACTOR WILL NOTIFY UTILITY COMPANY OF CHANGES IN ELECTRICAL LOAD.

ONE-LINE DIAGRAM NOTES:

1. ELECTRICAL SERVICE SHALL BE 200A, 120/240V, 1ø, 3W.

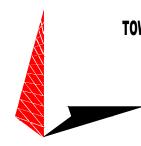
2.FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDOR PRINTS PROVIDED BY EQUIPMENT MANUFACTURER.





AMERICAN TOWER®

19100 VON KARMAN AVE
SUITE 200
IRVINE, CA 92612



TOWER ENGINEERING PROFESSIONALS
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OFFICE: (480) 285-0036
www.tepgroup.net

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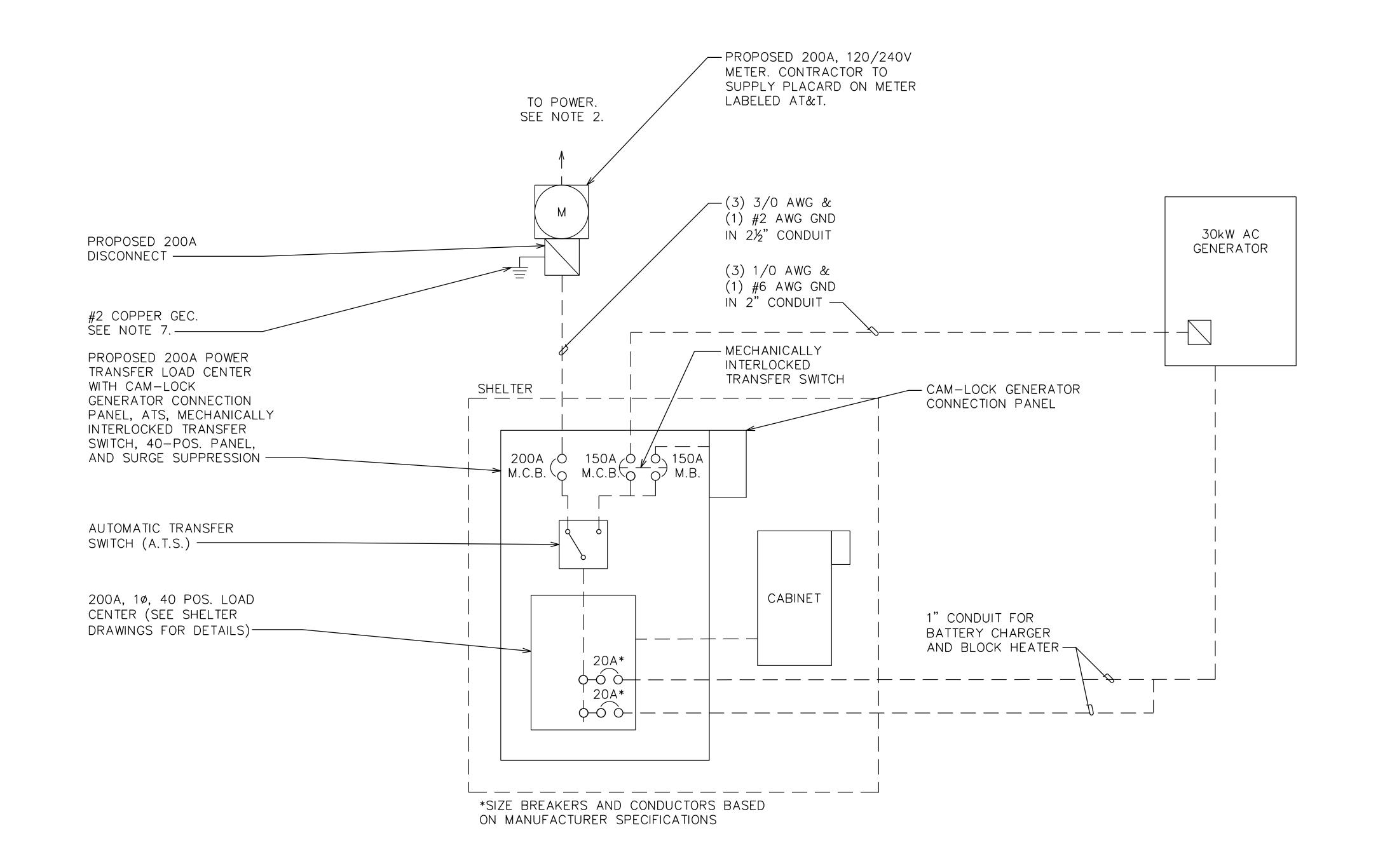
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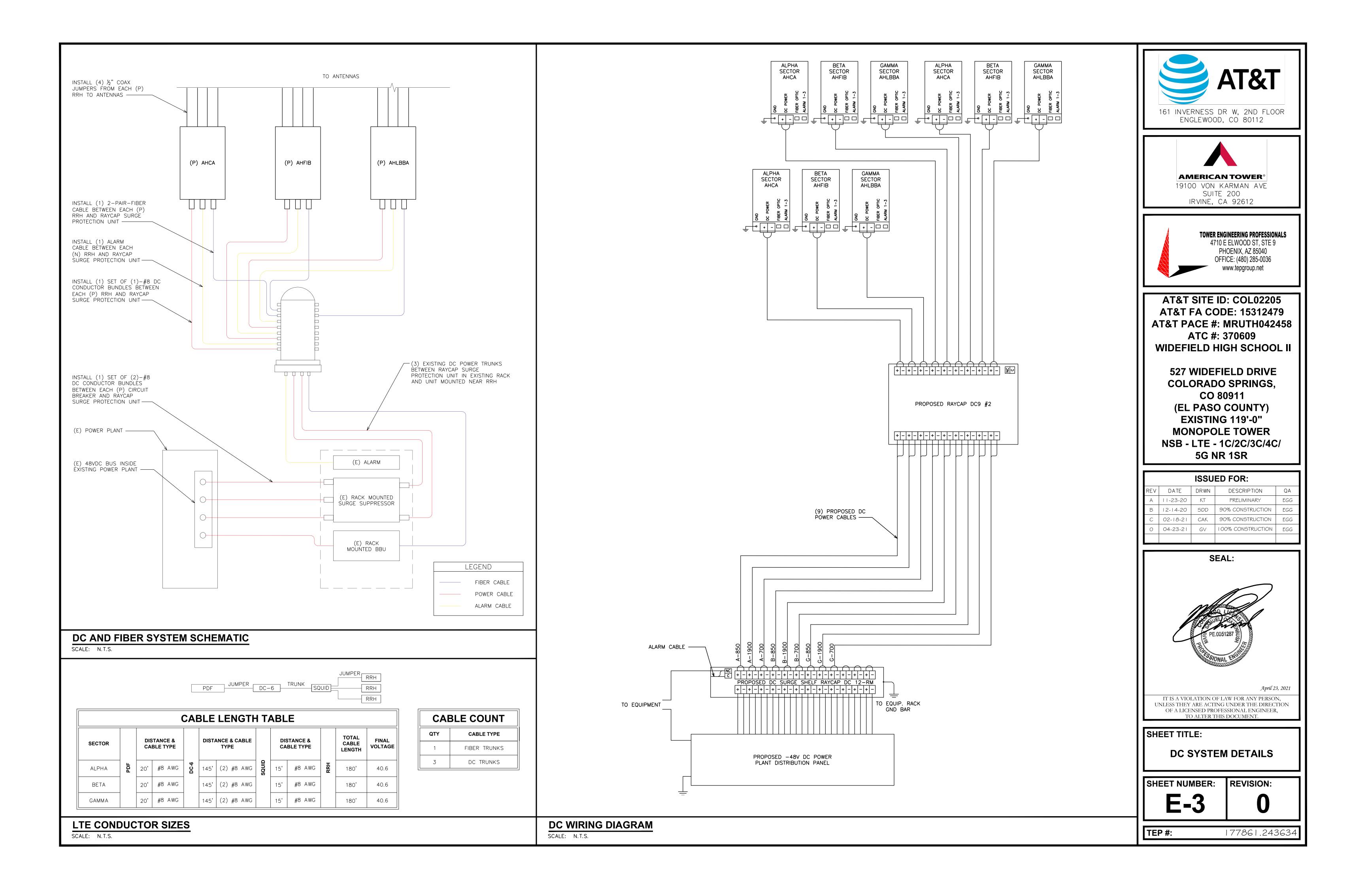
ONE-LINE DIAGRAM

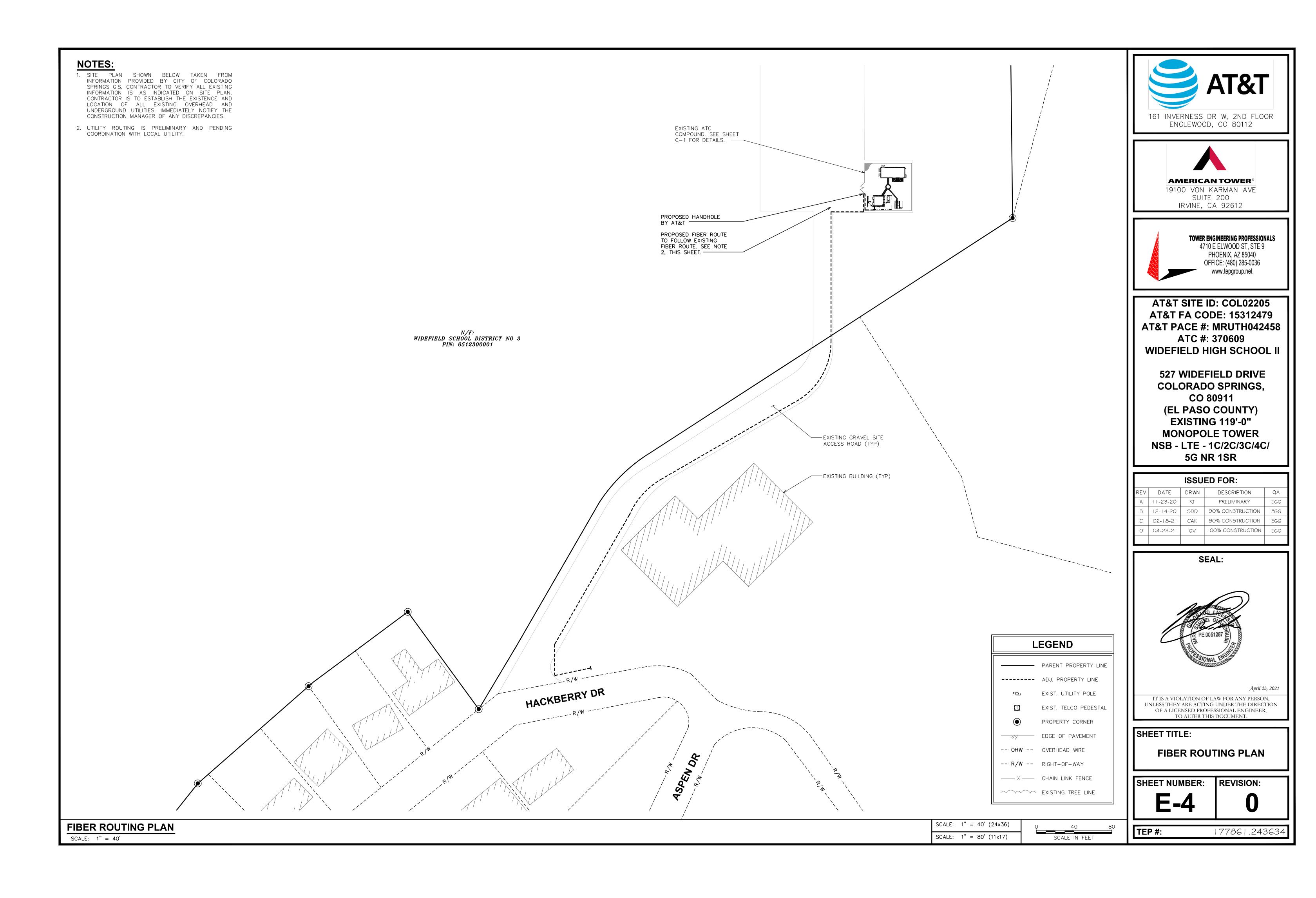
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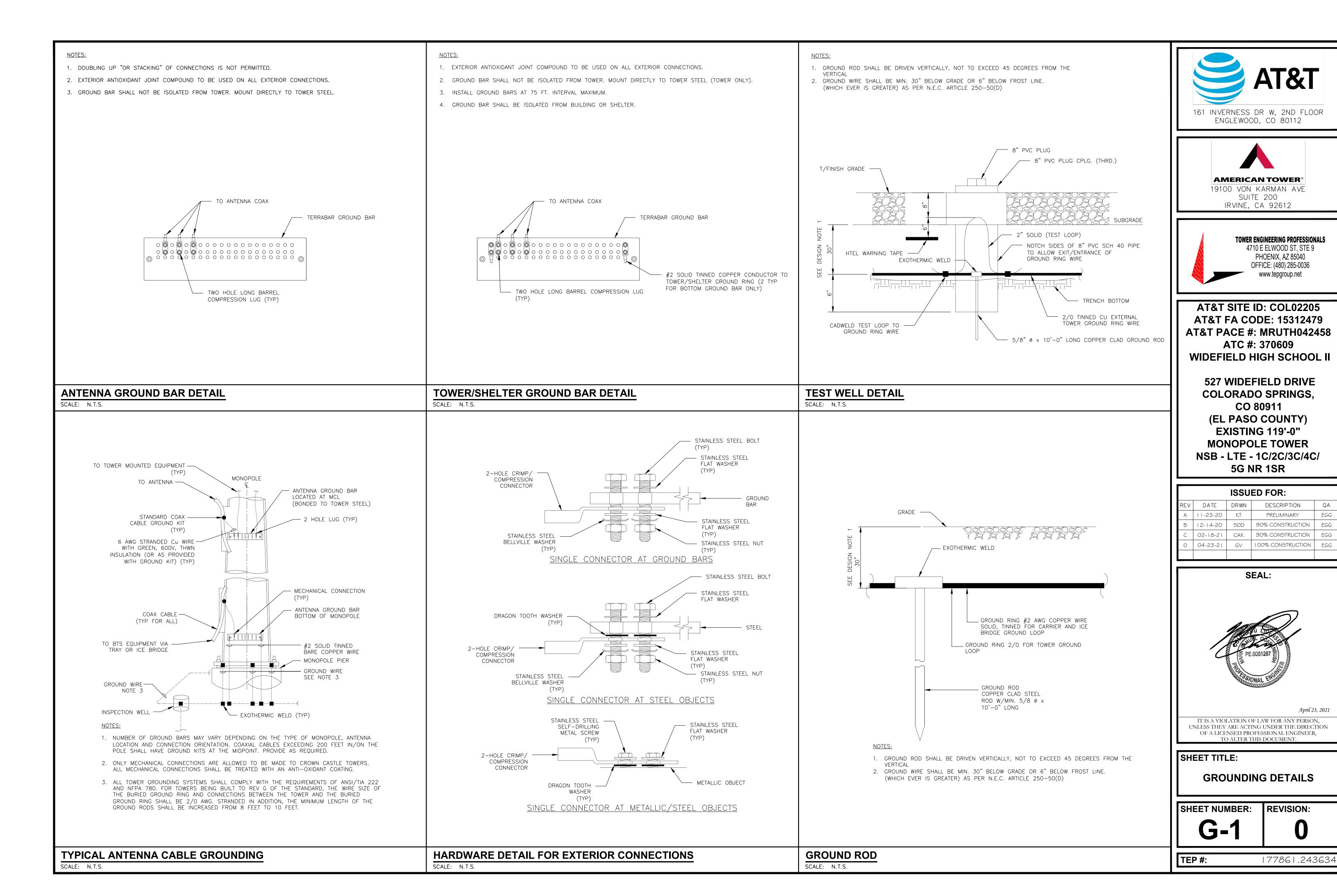
TEP #:

REVISION:









QΑ

EGG

April 23, 2021

