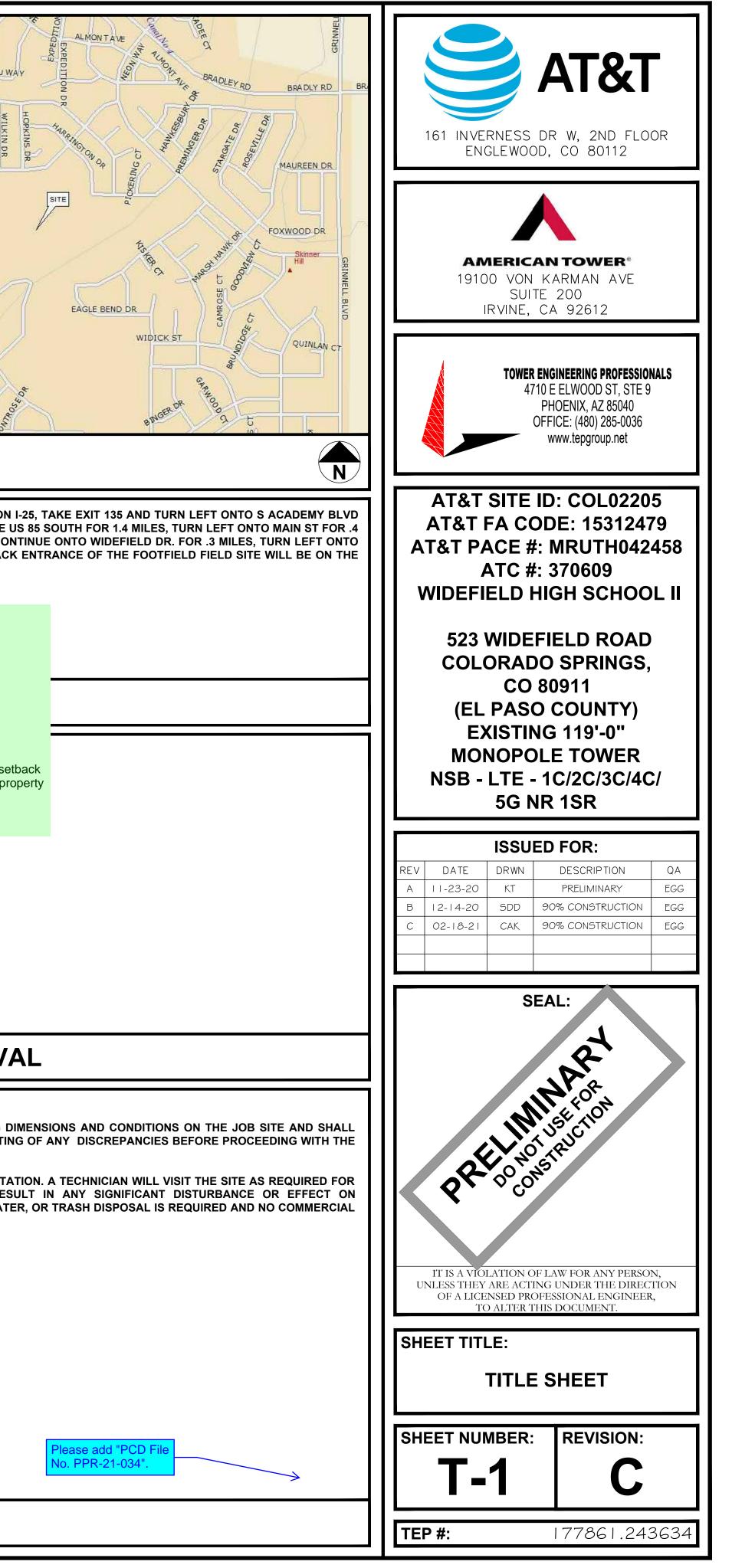
	161 INVERNESS I ENGLEWOO AT&T SITE NAME: WIDE AT&T SITE I AT&T PACE NUME AT&T FA CO USID: NSB - MO LTE 1C/2C/3C	DOR CHOOL CO 2458	ATC SITE NA ATC SITE NU	ME: WI MBER: SS: 523 CO (EL	ACCAN TOWER® DEFIELD HIGH SCHOOL II 370609 WIDEFIELD ROAD LORADO SPRINGS, CO 80911 200000000000000000000000000000000000	Provide and the second of the			
SITE APPLICANT: NAME: OFFICE T-1 TILE S-EET Columber of mails of columber of mails	*LONGITUDE W 104*43 \$0.02 (-104.73056*) *GROUND ELEV. (AMSL) = 5,795'± GOVERNING AUTHORITES. NOTHING IN WORK NOT CONFORMING TO THE LATE *INFORMATION PROVIDED BY ATC INTERNATIONAL CODE COUNCIL *INFORMATION PROVIDED BY ATC INTERNATIONAL CODE COUNCIL AT&T SITE NAME: WIDEFIELD HIGH SCHOOL CO AT&T SITE NAME: WIDEFIELD HIGH SCHOOL CO AT&T SITE ID: COL02205 FA: 15312479 PACE NUMBER: MRUTH042458 ATC SITE NAME: WIDEFIELD HIGH SCHOOL II CURRENT ZONING: A-5			HESE PLANS IS TO BE CONSTRUED EDITIONS OF THE FOLLOWING: 4. NATIONAL ELECTRIC CODE (2020 EDITION) 5. LOCAL BUILDING CODE 6. CITY/COUNTY ORDINANCES	D TO PERMIT	UTILITIES CONTACT: CUSTOMER SERVICE PHONE: (719) 448-4800 METER # NEAR SITE: UNKNOWN TELEPHONE COMPANY: CENTURY LINK CONTACT: CUSTOMER SERVICE PHONE: (866) 915-7181 PHONE # NEAR SITE: (719) 494-7942 PEDESTAL # NEAR SITE: UNKNOWN UTILITY INFORMATION DESIGN PACKAGE BASED ON RF DATA SHEET RFDS NAME: COL02205 REVISION: 1.00 ISSUED: 09/21/2020 5:43:37 P.M. DATE UPDATED: 10/14/2020 11:33:08 A.M. NUMBER OF SECTORS: 3	MILES, TURN RIGHT ONTO NORMAN DR. FOR .1 MILES, CO HACKBERRY DR. FOLLOW THE ROAD TOWARDS THE BAC RIGHT. please add the following to the site plan: Owner email for responsible party Applicant email for responsible party Property address Property tax schedule number Legal description Lot/parcel size Lot area coverage calculation Existing/proposed land use Date, north arrow, and a graphic scale Dimension of the property lines The footprint of all existing and proposed buildings and the se distances from each existing and proposed structure to the property		
NAME: TOWER ENGINEERING PROFESSIONALS E-3 DC SYSTEM DETAILS C ADDRESS: 326 TRYON ROAD CITY, STATE, ZIP: G-1 GROUNDING DETAILS C GOTACT: GRAHAM M, ANDRES, P.E. PHONE: G-2 GROUNDING DETAILS C MAME: WIDEFIELD SCHOOL DISTRICT NO 3 ADDRESS: G-2 GROUNDING DETAILS C NAME: WIDEFIELD SCHOOL DISTRICT NO 3 ADDRESS: 1820 MAIN ST CITY, STATE, ZIP: COMPANDO SCHOOL DISTRICT NO 3 ADDRESS: MAME: MAME:<	NAME:AT&TADDRESS:161 INVERNESS DR W, 2ND FLOORCITY, STATE, ZIP:ENGLEWOOD, CO 80112CONTACT:REID POSTPHONE:(720) 838-4228SITE APPLICANT:NAME:NAME:AT&TADDRESS:4393 S RIVERBOAT RD, 4TH FLOORCITY, STATE, ZIP:SALT LAKE CITY, UT 84123CONTACT:JAN ROBINETTEPHONE:(801) 201-4173CIVIL ENGINEER:NAME:TOWER ENGINEERINGPROFESSIONALSADDRESS:326 TRYON ROADCITY, STATE, ZIP:RALEIGH, NC 27603CONTACT:GRAHAM M. ANDRES, P.E.PHONE:(919) 661-6351	$\begin{array}{c} T-1 \\ T-2 \\ C-1.1 \\ C-1.2 \\ \hline C-2 \\ C-3 \\ \hline C-4 \\ \hline C-5 \\ \hline C-6 \\ \hline C-7 \\ \hline C-8 \\ \hline E-1 \end{array}$	TITLE SHEETGENERAL NOTESSITE SURVEYCOMPOUND DETAILEQUIPMENT & ANTENNEXISTING AND FINAL EEQUIPMENT DETAILSEQUIPMENT DETAILSWIC SHELTER DETAILSGENERATOR DETAILSFOUNDATION DETAILSELECTRICAL PANEL &	ELEVATIONS	C C C C C C C C C C C C C C C C C C C	NUMBER OF TMAS: 0 NUMBER OF RRHs: 9 NUMBER OF FIBER/DC SQUIDS: 0 NUMBER OF DC SQUIDS: 3 NUMBER OF FIBER TRUNK CABLES: 3 NUMBER OF DC TRUNK CABLES: 6 NUMBER OF RF CABLES: 0 RFDS DATA 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	CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRIT WORK OR BE RESPONSIBLE FOR SAME. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABIT ROUTINE MAINTENANCE. THE PROJECT WILL NOT RE DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WAT		
	NAME:TOWER ENGINEERING PROFESSIONALSADDRESS:326 TRYON ROADCITY, STATE, ZIP:RALEIGH, NC 27603CONTACT:GRAHAM M. ANDRES, P.E.PHONE:(919) 661-6351PROPERTY OWNER:NAME:WIDEFIELD SCHOOL DISTRICT NO 3ADDRESS:1820 MAIN ST	E-3 G-1	DC SYSTEM DETAILS GROUNDING DETAILS			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			



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 SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- 6. 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, 11. 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 PROJECT.
- 18. 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 WORK.
- 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 22. 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 23. 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 STEE 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:

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 PRINTOUT OF THAT TEST.

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 EQUAL

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.

THE FOLLOWING MATERIALS SHA	LL 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
WELDED WIRE FABRIC:	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

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.

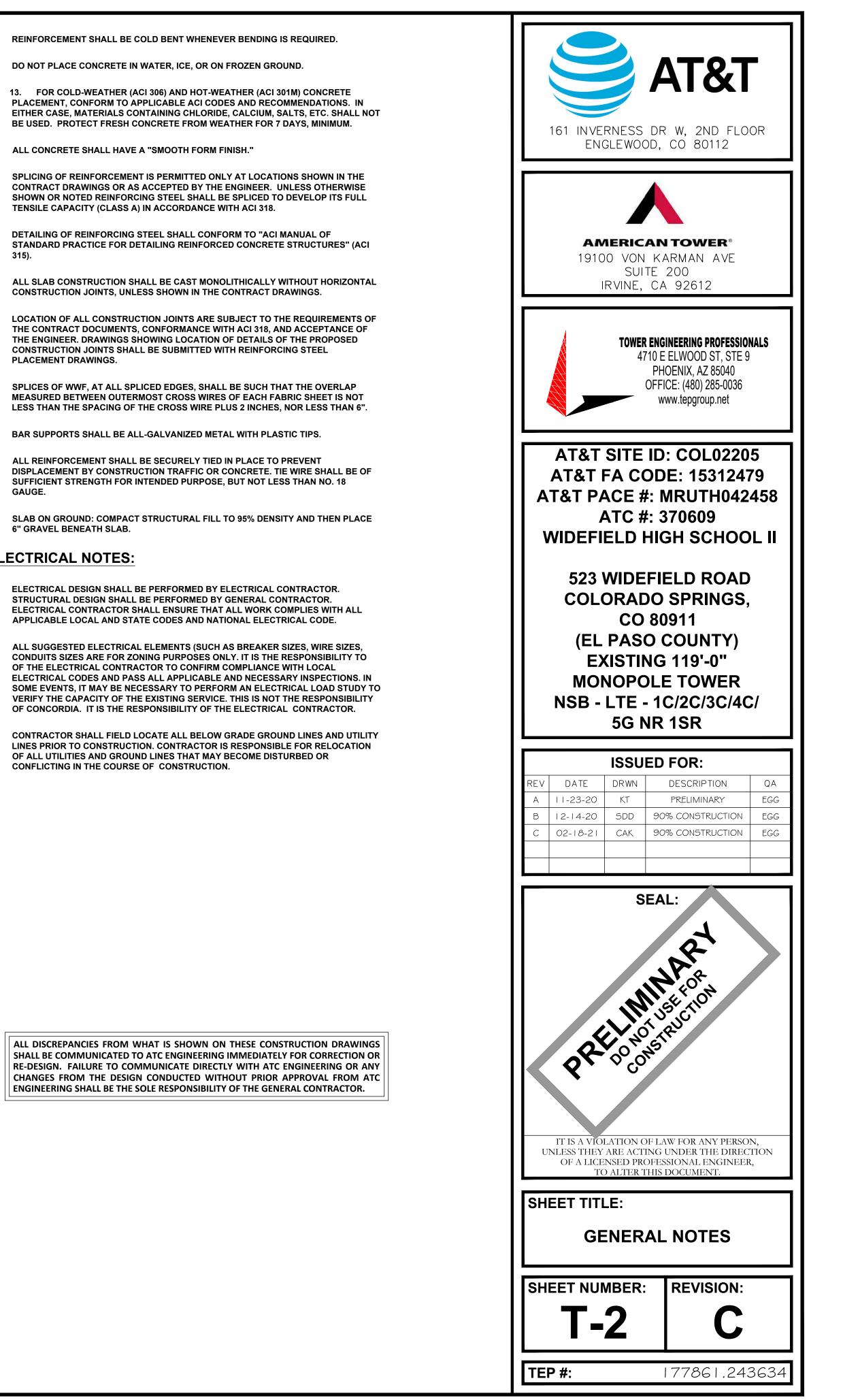
- 11. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- 12. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.

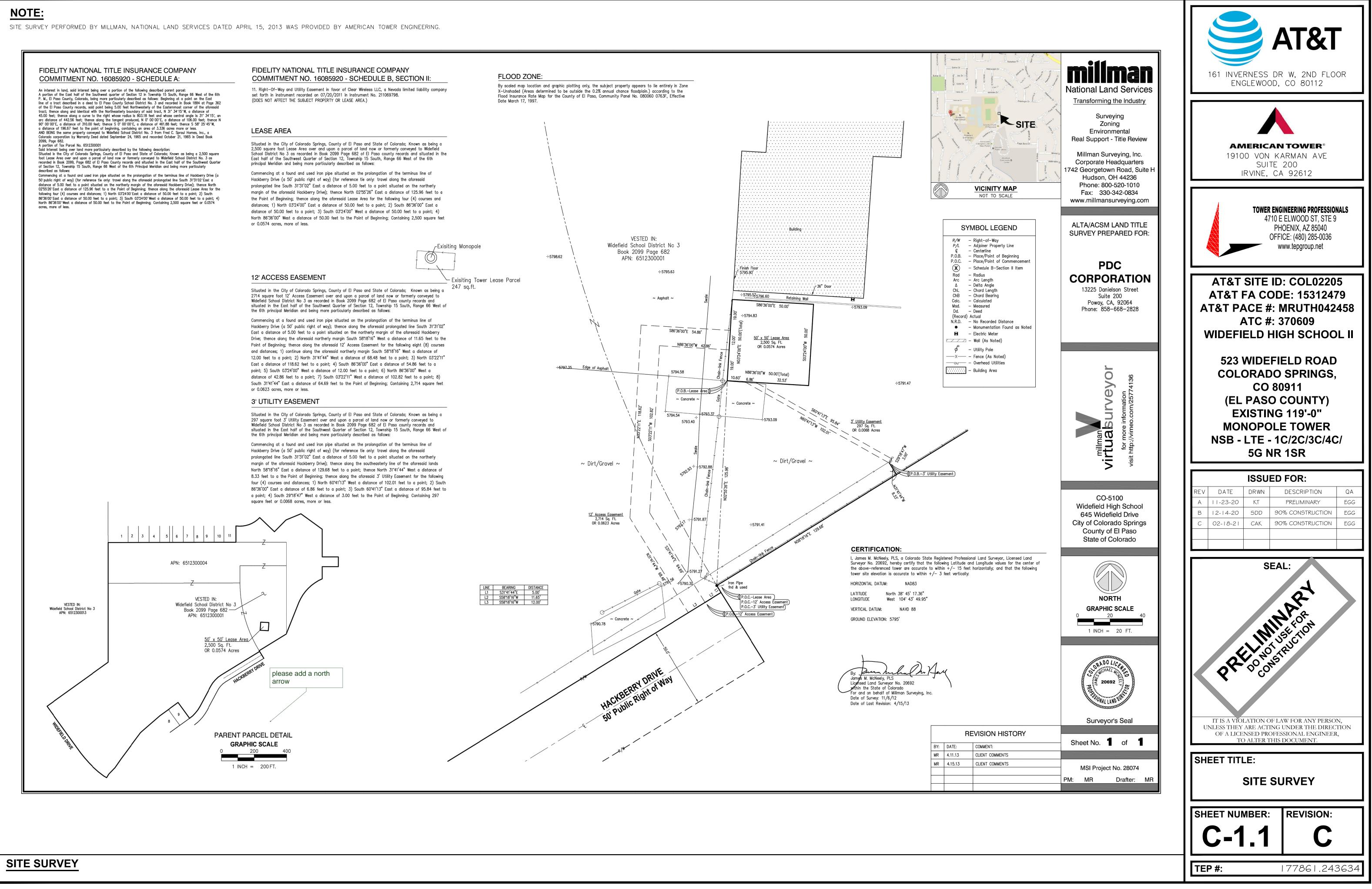
PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.

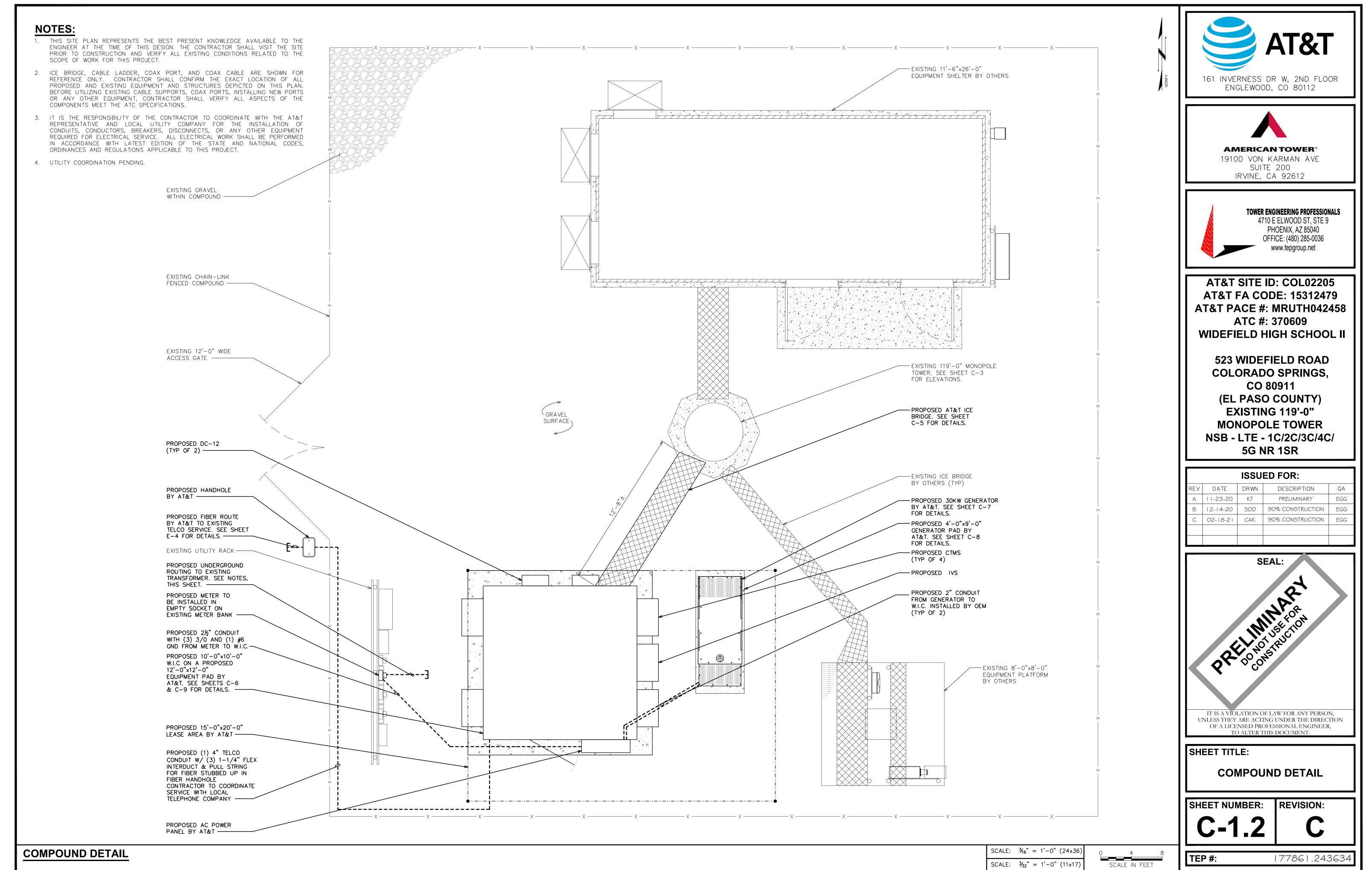
- 14. ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH."
- 15. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
- 16. DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF 315).
- 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 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 SUFFICIENT STRENGTH FOR INTENDED PURPOSE, BUT NOT LESS THAN NO. 18 GAUGE.
- 22. SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6" GRAVEL BENEATH SLAB.

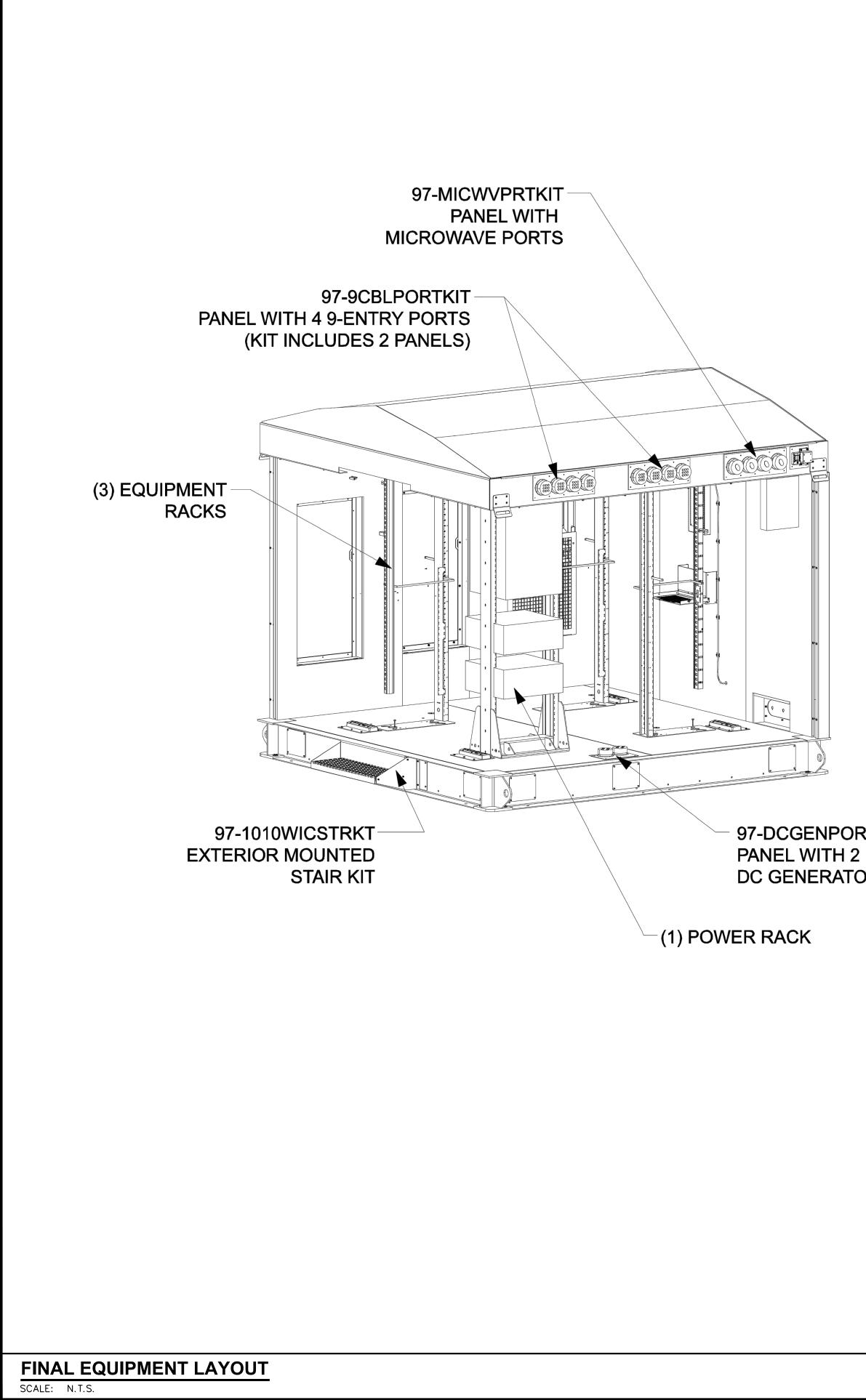
ELECTRICAL NOTES:

- 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.
- 2. OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL OF CONCORDIA. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 3. CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

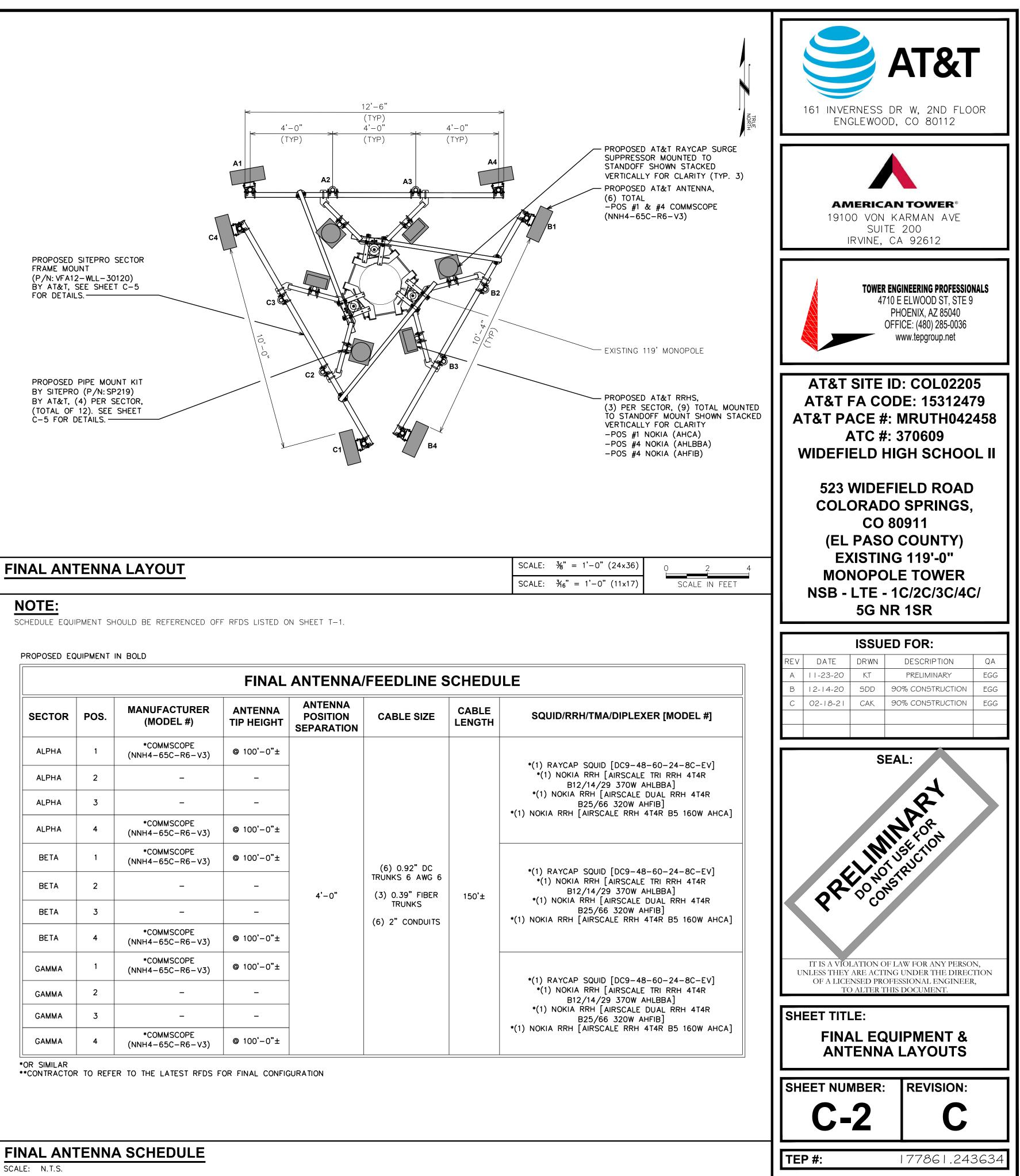






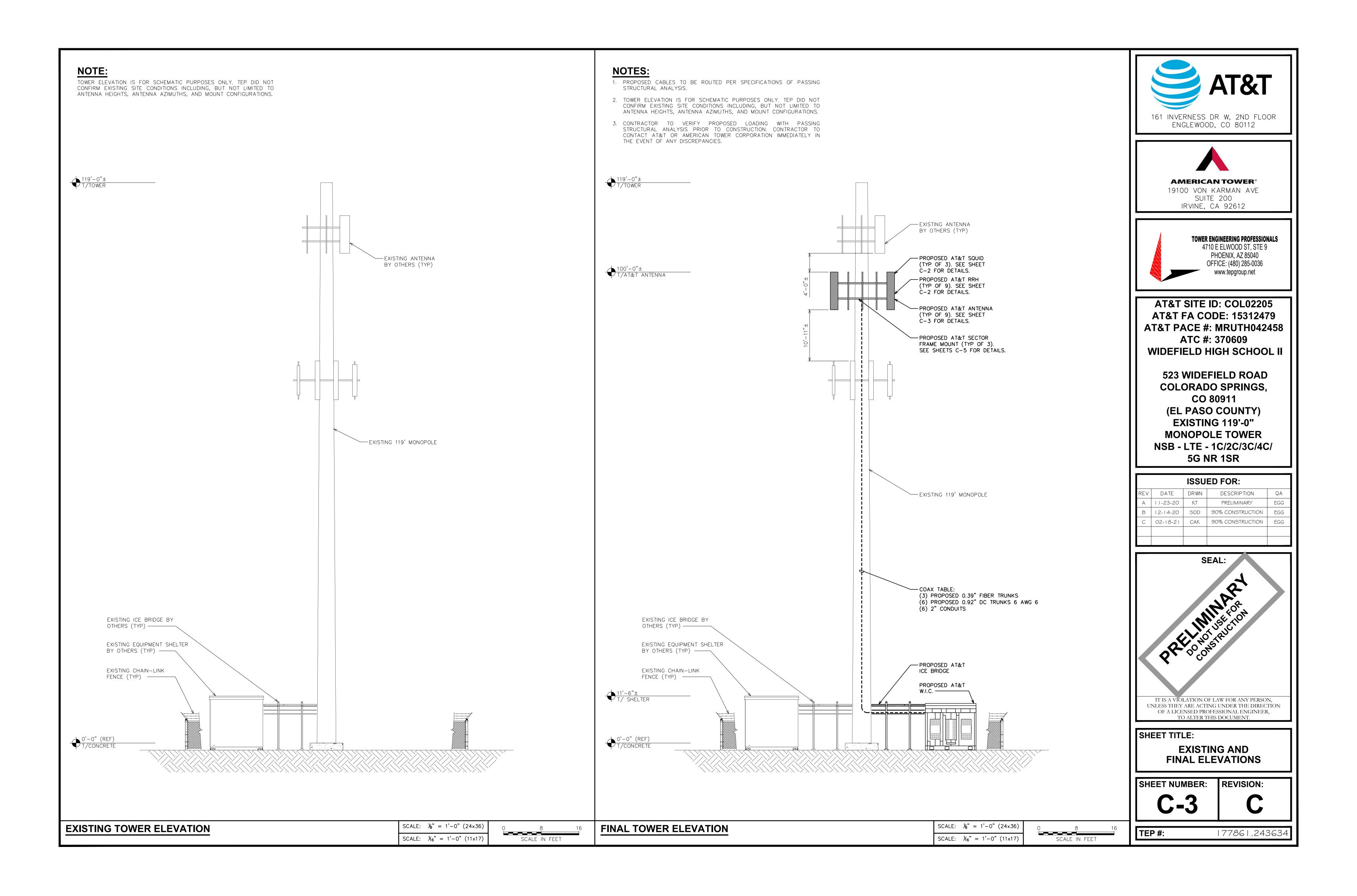


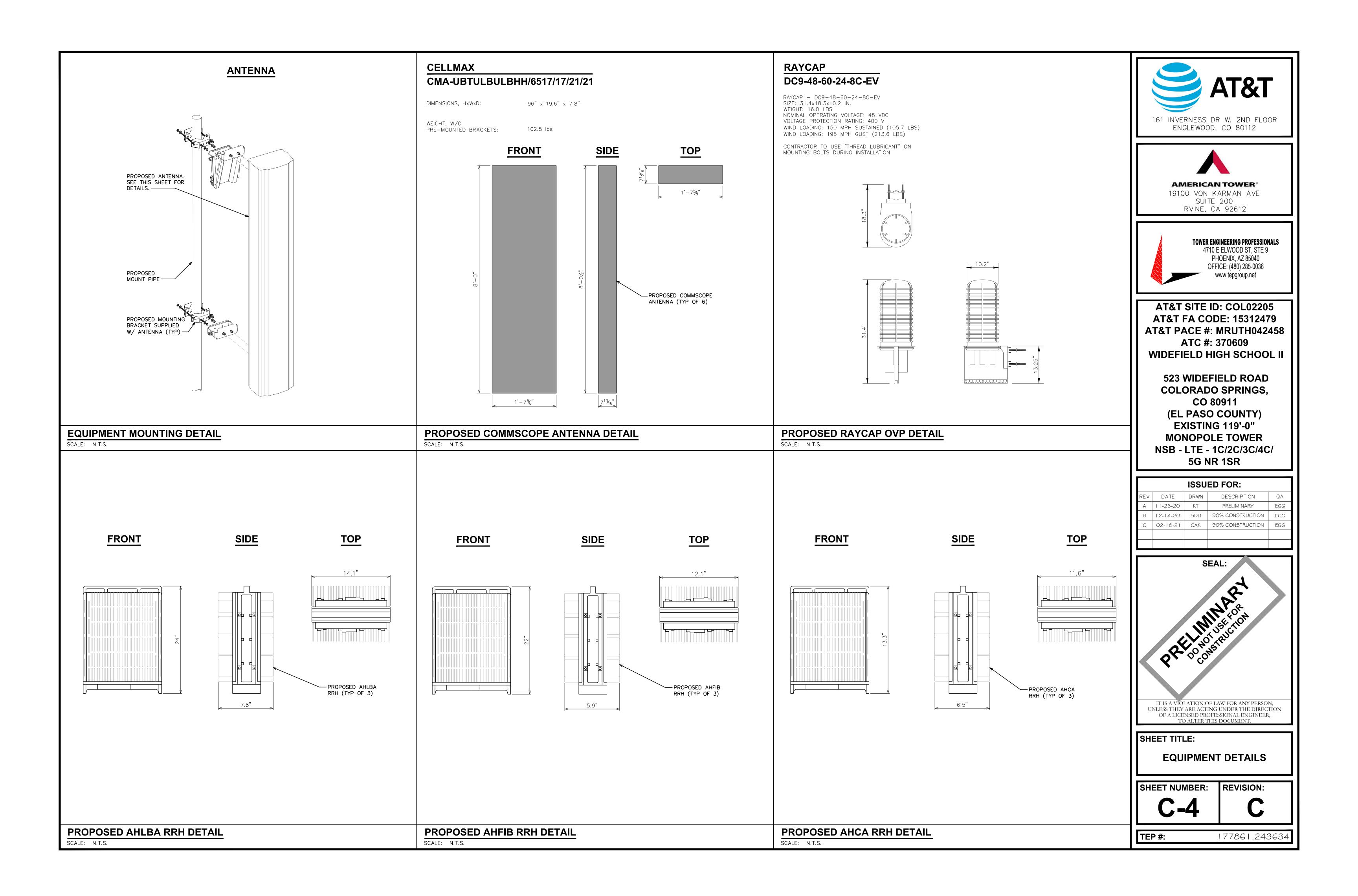
97-DCGENPORTKIT DC GENERATOR PORTS

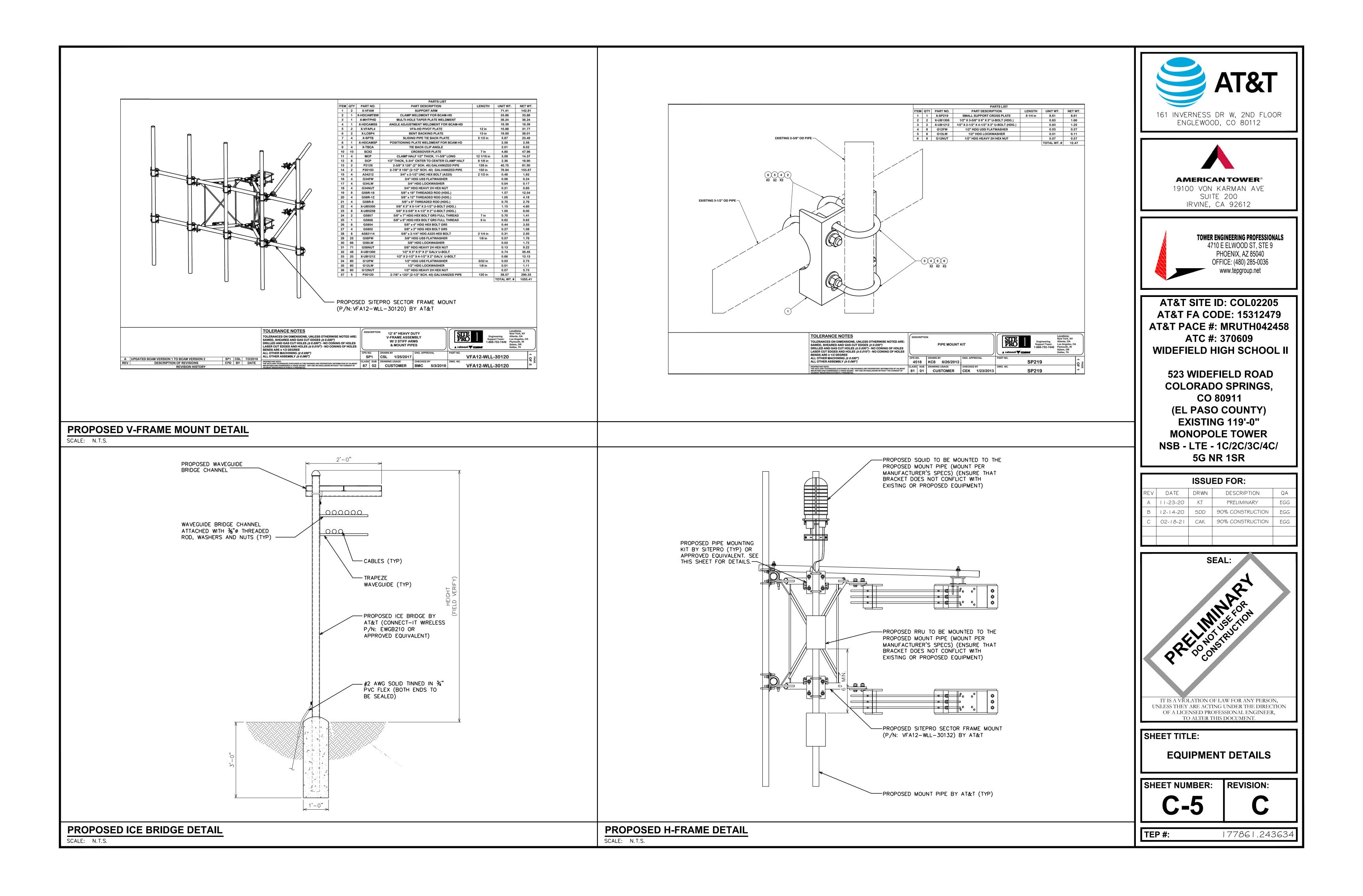


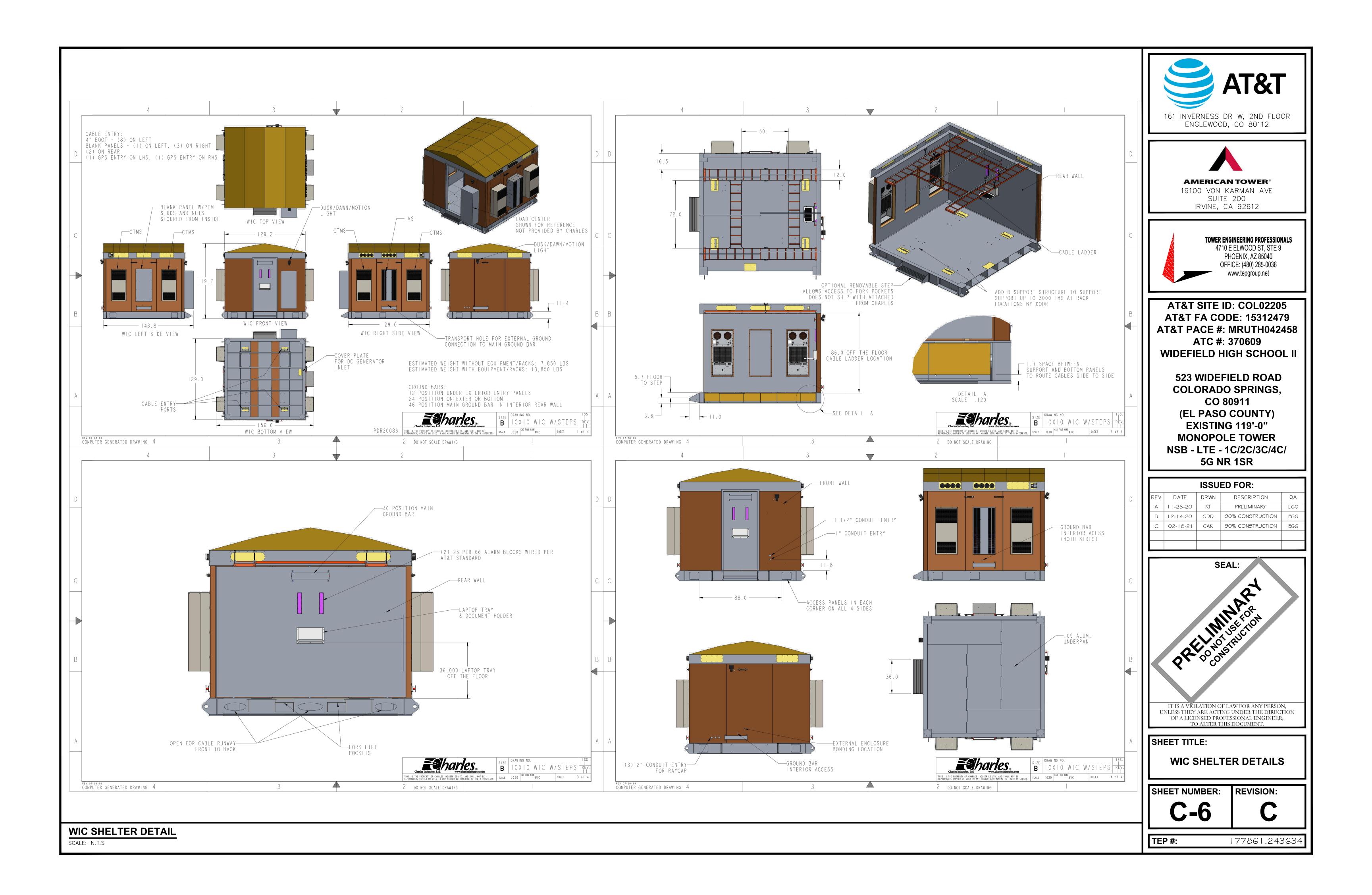
FINAL ANTENNA LAYOUT

SECTOR	POS.	MANUFACTURER (MODEL #)	ANTENNA TIP HEIGHT	ANTENNA POSITION SEPARATION	CABLE SIZE	CABLE LENGTH	
ALPHA	1	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±				
ALPHA	2	_	-				
ALPHA	3	-	-				
ALPHA	4	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±				
BETA	1	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±		(6) 0.92" DC		
BETA	2	_	-	4'-0"	TRÙŃKS 6 AWG 6 (3) 0.39" FIBER	150'±	
BETA	3	_	-		TRUNKS		
BETA	4	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±		(6) 2" CONDUITS		
GAMMA	1	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±				
GAMMA	2	-	_				
GAMMA	3		-				
GAMMA	4	*COMMSCOPE (NNH4-65C-R6-V3)	@ 100'-0"±				











Dil Pump Type I Filter Type Full-Flow Crankcase Capacity - gt (L)

Battery Size 12 VDC Battery Voltage Ground Polarity Negative

See Battery Index 0161970SBN

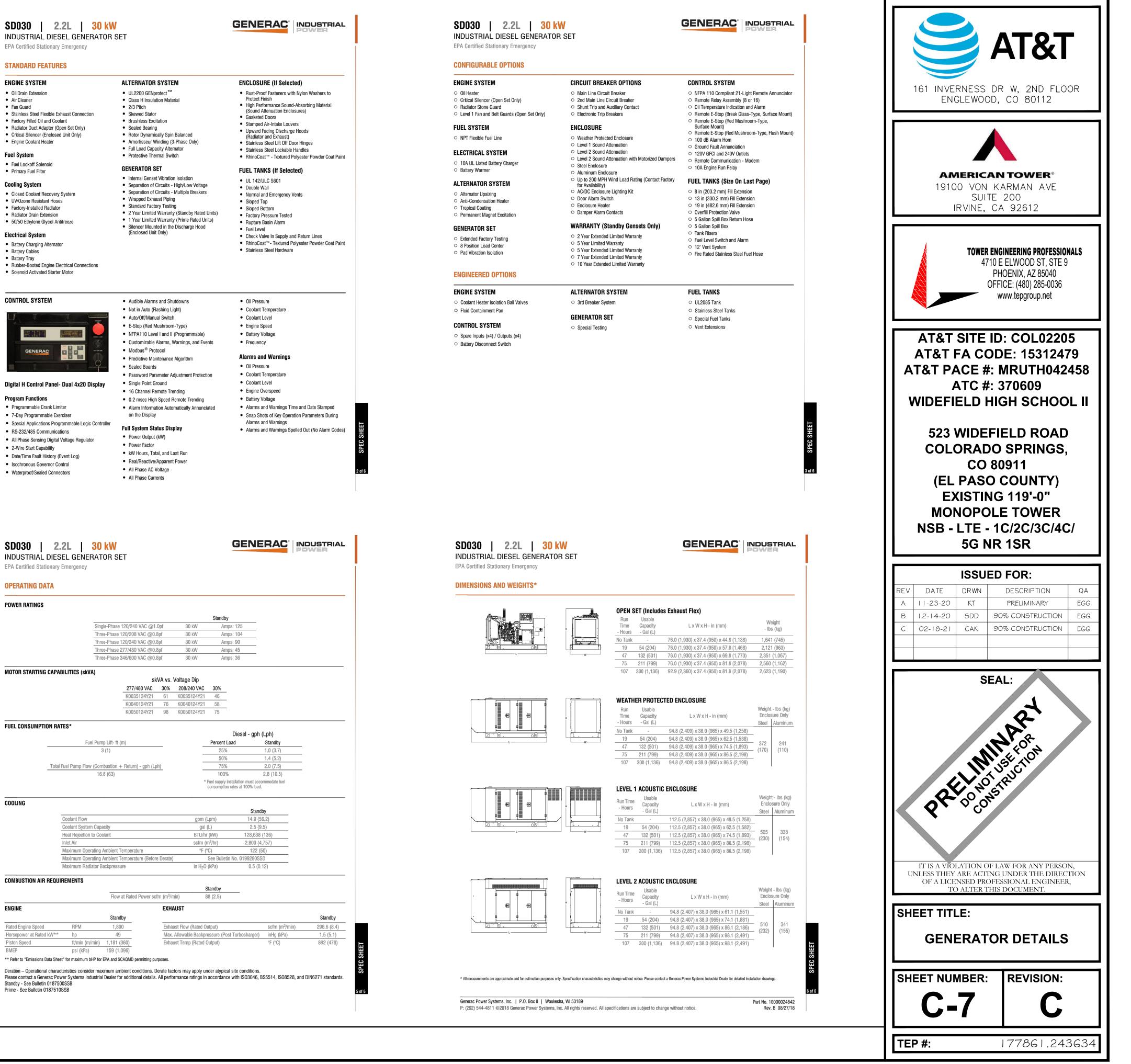
ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21	
Poles	4	
Field Type	Revolving	
nsulation Class - Rotor	Н	
nsulation Class - Stator	Н	
Fotal Harmonic Distortion	<5% (3-Phase)	
Telephone Interference Factor (TIF)	< 50	

Standard Excitation	Brushless					
Bearings	Single Sealed					
Coupling	Direct via Flexible Disc					
Load Capacity - Standby	100%					
Prototype Short Circuit Test	Yes					
Voltage Regulator Type	Digital					
Number of Sensed Phases	All					
Regulation Accuracy (Steady State)	±0.25%					

SD030 2.2L 30kW GENERATOR DETAILS

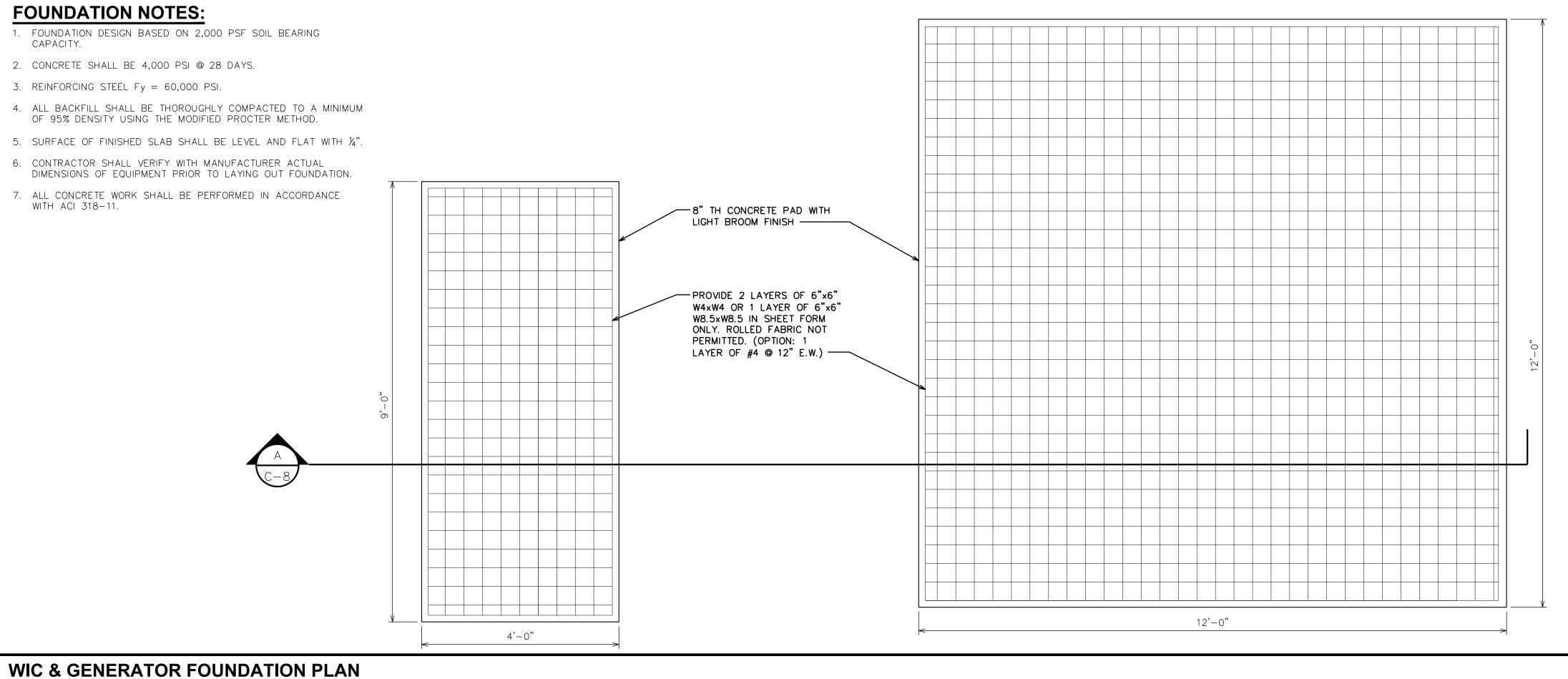
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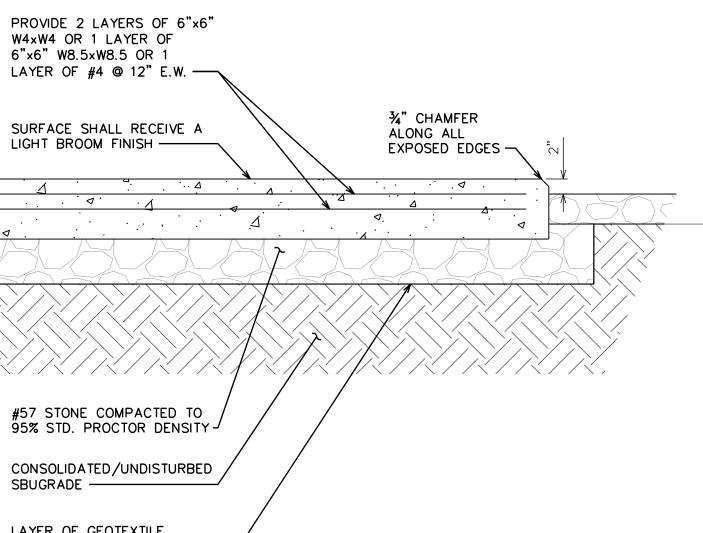


PAD SECTION		$\overline{\mathcal{I}}$
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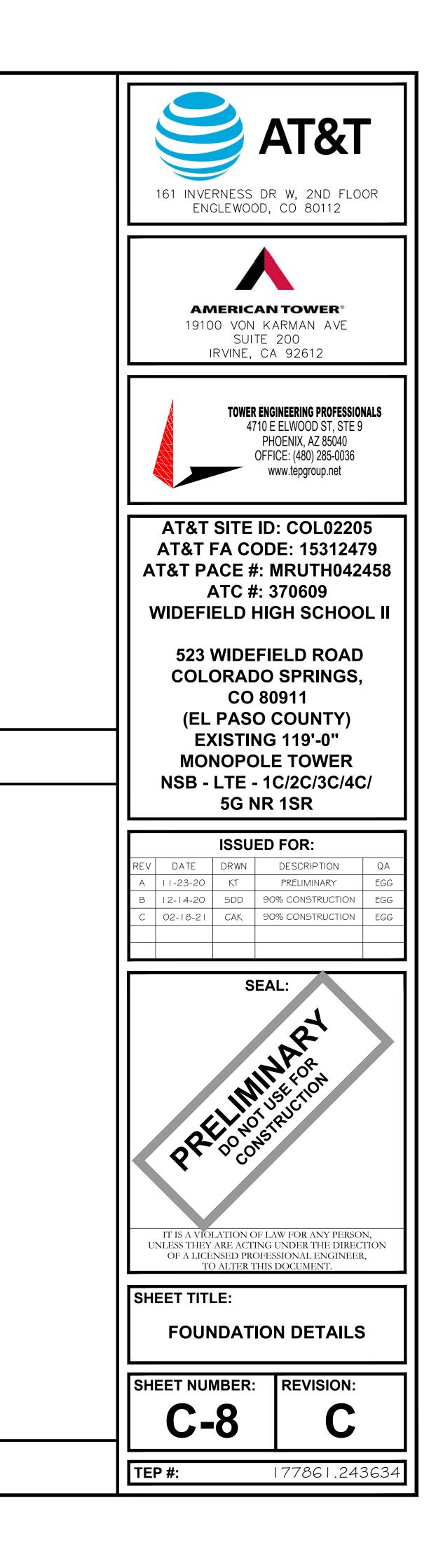
NERATOR FOUNDATION PLAN	





FINISHED GRADE

LAYER OF GEOTEXTILE FABRIC (MIRAFI 500 OR EQUIVALENT) BETWEEN #57 STONE & SUBGRADE



PROPOSED DC-12	<u> </u>
(TYP OF 2)	
PROPOSED CTMS	
(TYP OF 4)	
PROPOSED 10'-0"x10'-0" W.I.C. SHELTER BY AT&T.	
SEE SHEET C-2 FOR	
SHELTER LAYOUT.	
PROPOSED SHELTER	
GROUND RING	T 👘
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LEGEND

EXOTHERMIC CONNECTION MECHANICAL CONNECTION

ANTENNA GROUND BAR

I MGB I MASTER GROUND BAR

EQUIPMENT GROUNDING PLAN

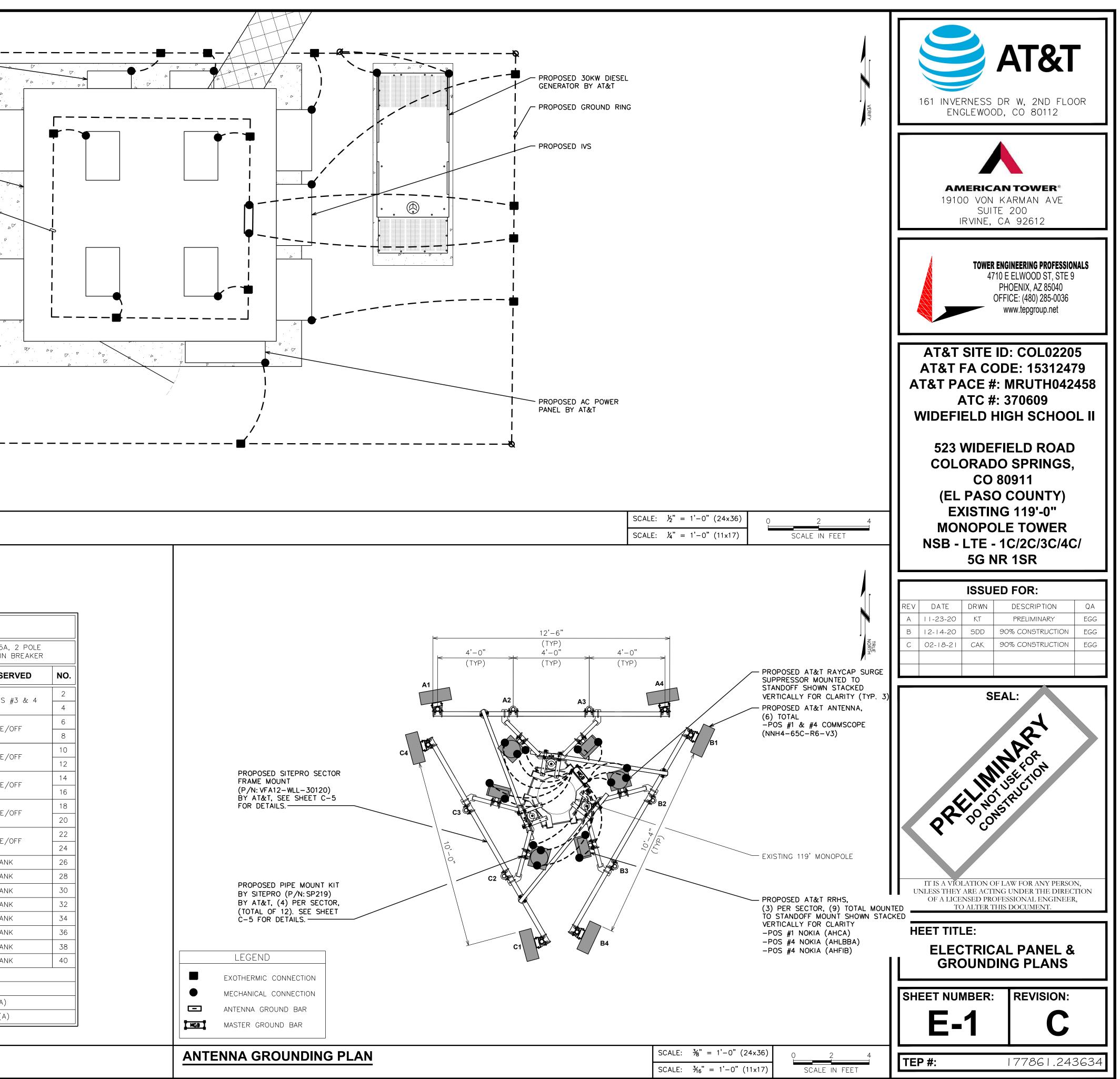
NOTE:

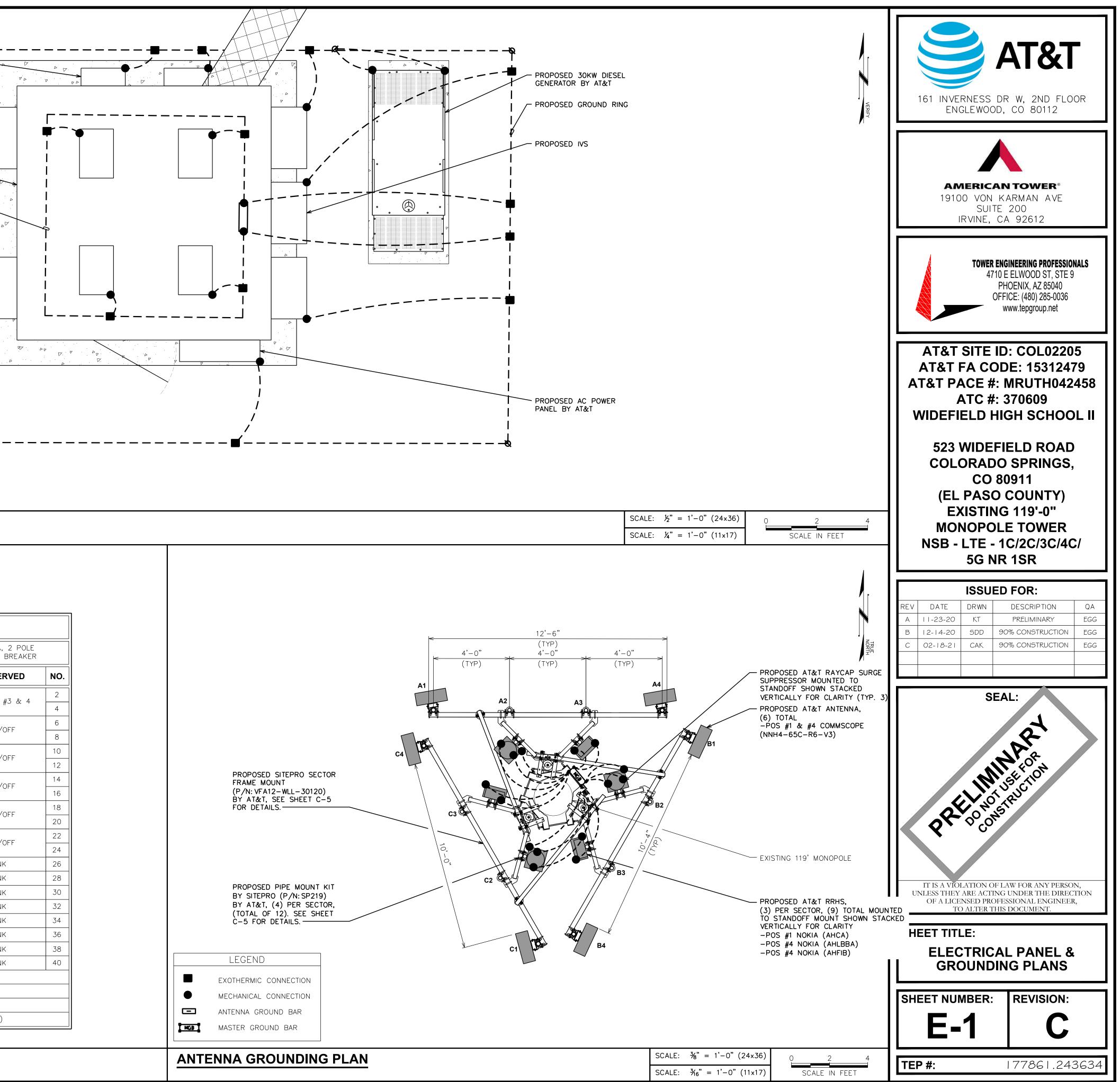
PROPOSED PANEL SCHEDULE VALUES WERE CALCULATED BASED ON MAXIMUM PULL FROM EACH CONNECTED BREAKER. ACTUAL VALUES WILL VARY BASED ON SITE CONDITIONS.

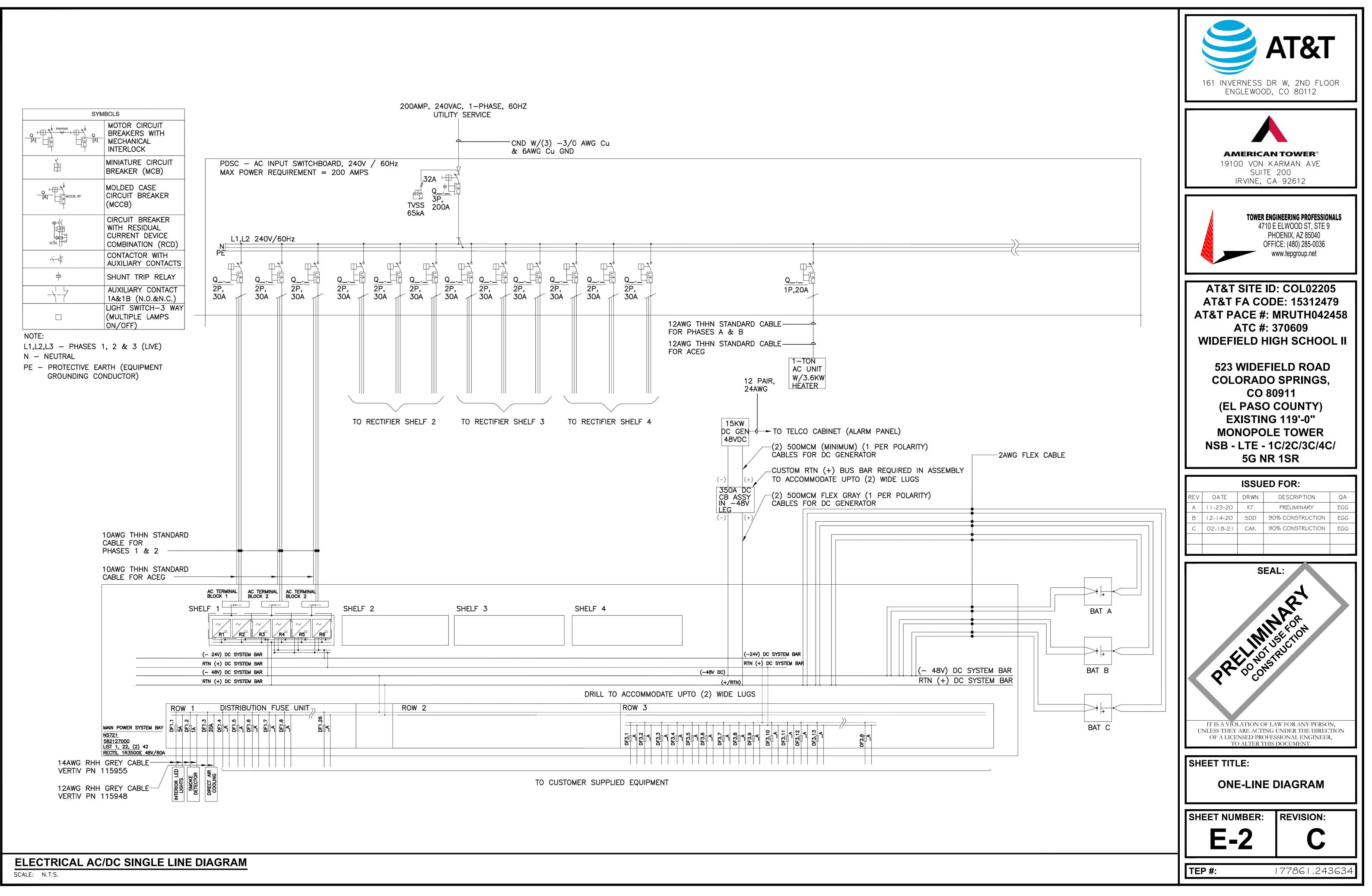
	PROPOSED PANEL SCHEDULE									
	120/240 VOLTS 1 PHASE			SU	3 V RFACE	VIRE MOUN ⁻	ſED			225A MAIN
NO.	LOAD SERVED	ØA VA	ØB VA	AMP / POLE	L1	L2	AMP / POLE	ØA VA	ØB VA	LOAD SE
1		2880	_	70 /0	5760	_	70 /0	2880	_	RECTIFIERS
3	RECTIFIERS #1 & #2	_	2880	30/2	_	5760	30/2	_	2880	REC IIFIERS
5	RECTIFIERS #5 & 6	2880	-	70 /0	2880	-	70 /0	0	-	
7	RECHIFIERS #5 & 0	_	2880	30/2	_	2880	30/2	_	0	SPARE/
9	SPARE/OFF	0	-	30/2	0	-	30 /2	0	_	SPARE/
11	SPARE/UPP	_	0	30/2	_	0	30/2	_	0	SPARE/
13	SPARE/OFF	0	-	30 /2	0	-	30/2	0	-	SPARE/
15	SPARE/UFF	_	0	30/2	_	0		_	0	
17	SPARE/OFF	0	-	30/2	0	-	30/2	0	-	SPARE/
19	SPARE/UPP	_	0	1 50/2	_	0		_	0	
21	SPARE/OFF	0	-	30/2	0	-	30/2	0	-	SPARE/
23	SPARE/ UPP	_	0	1 50/2	_	0		_	0	
25	AC UNIT #1	1920	-	20/1	1920	-	_	_	-	BLAN
27	BLANK	_	-	-	-	0	_	_	-	BLAN
29	BLANK	-	-	-	0	-	_	-	-	BLAN
31	BLANK	_	-	-	-	0	_	_	-	BLAN
33	BLANK	_	-	-	0	-	_	_	-	BLAN
35	BLANK	-	-	-	-	0	-	-	-	BLAN
37	BLANK	_	-	-	0	-	-	-	-	BLAN
39	BLANK	_	-	-	-	0	-	_	-	BLAN
	PHASE TOTALS	(VA)			10560	8640				
	CURRENT PER PHA	SE (A)			88	72				
	PEAK TOTAL (VA)				10560	88			PE	EAK TOTAL (A)
	125% DEMAND (VA)					110			125	5% DEMAND (A

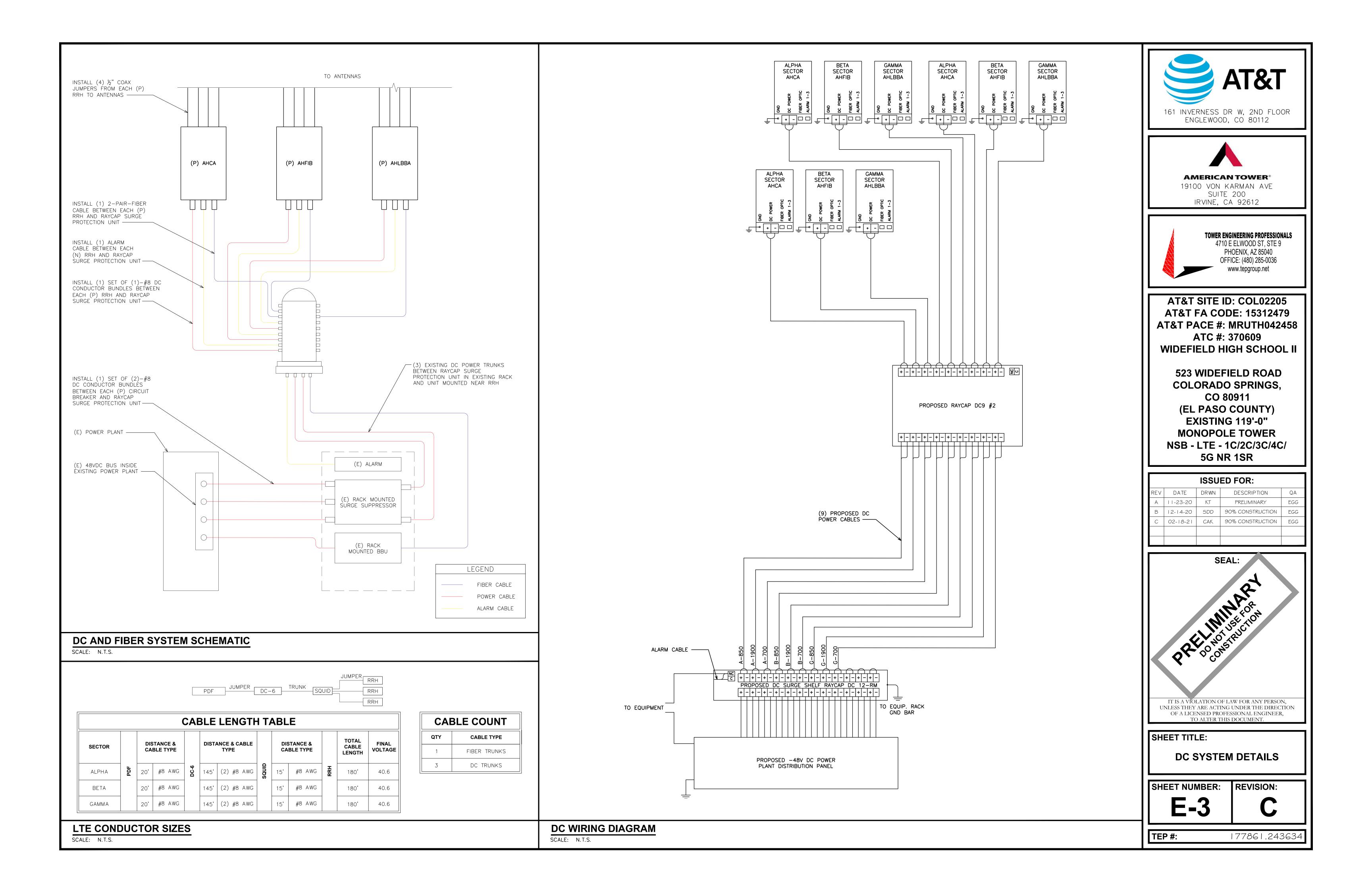
PROPOSED A/C PANEL

SCALE: N.T.S.



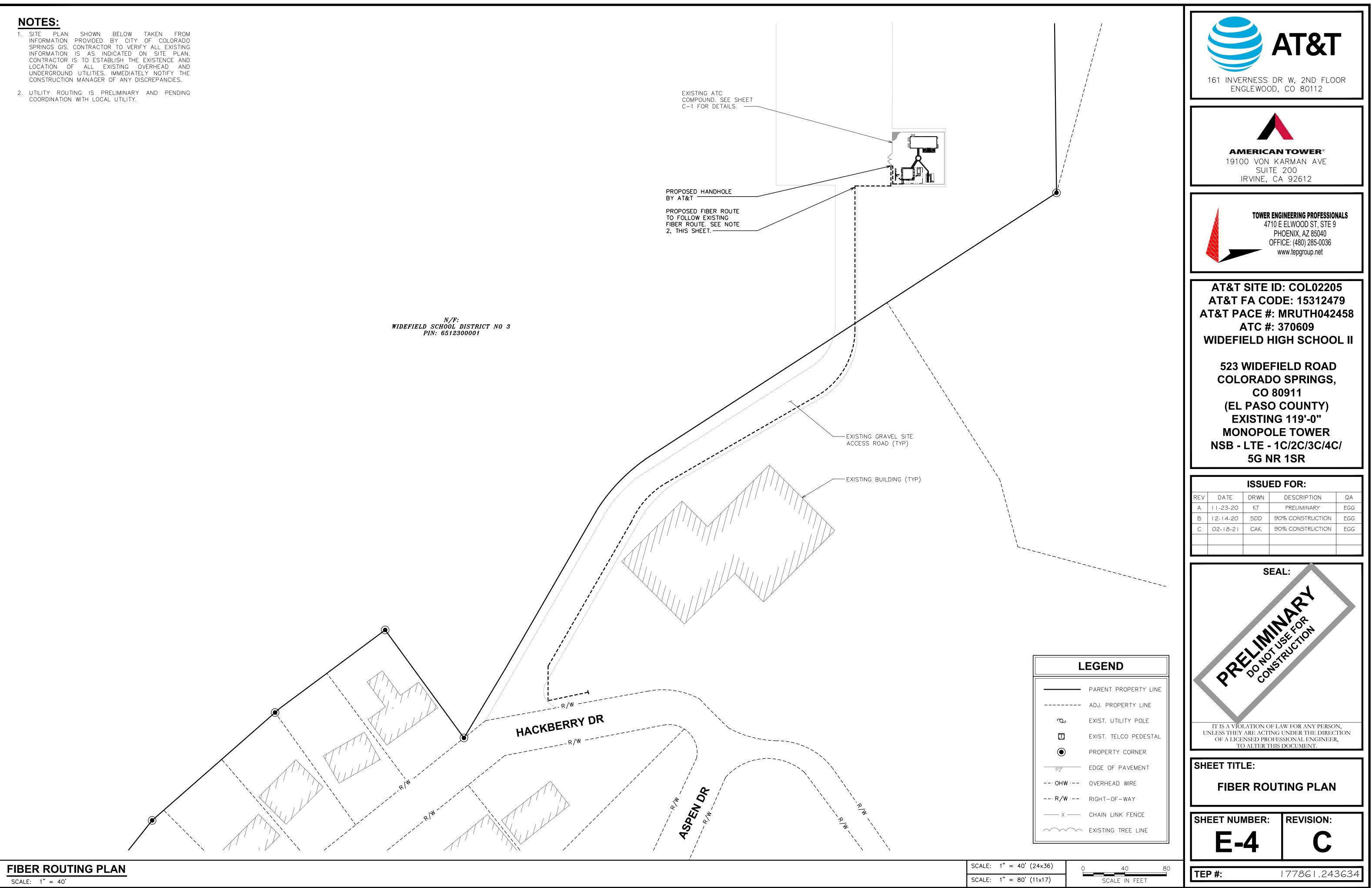






NOTES:

- CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
- 2. UTILITY ROUTING IS PRELIMINARY AND PENDING



SCALE: 1" = 40'

