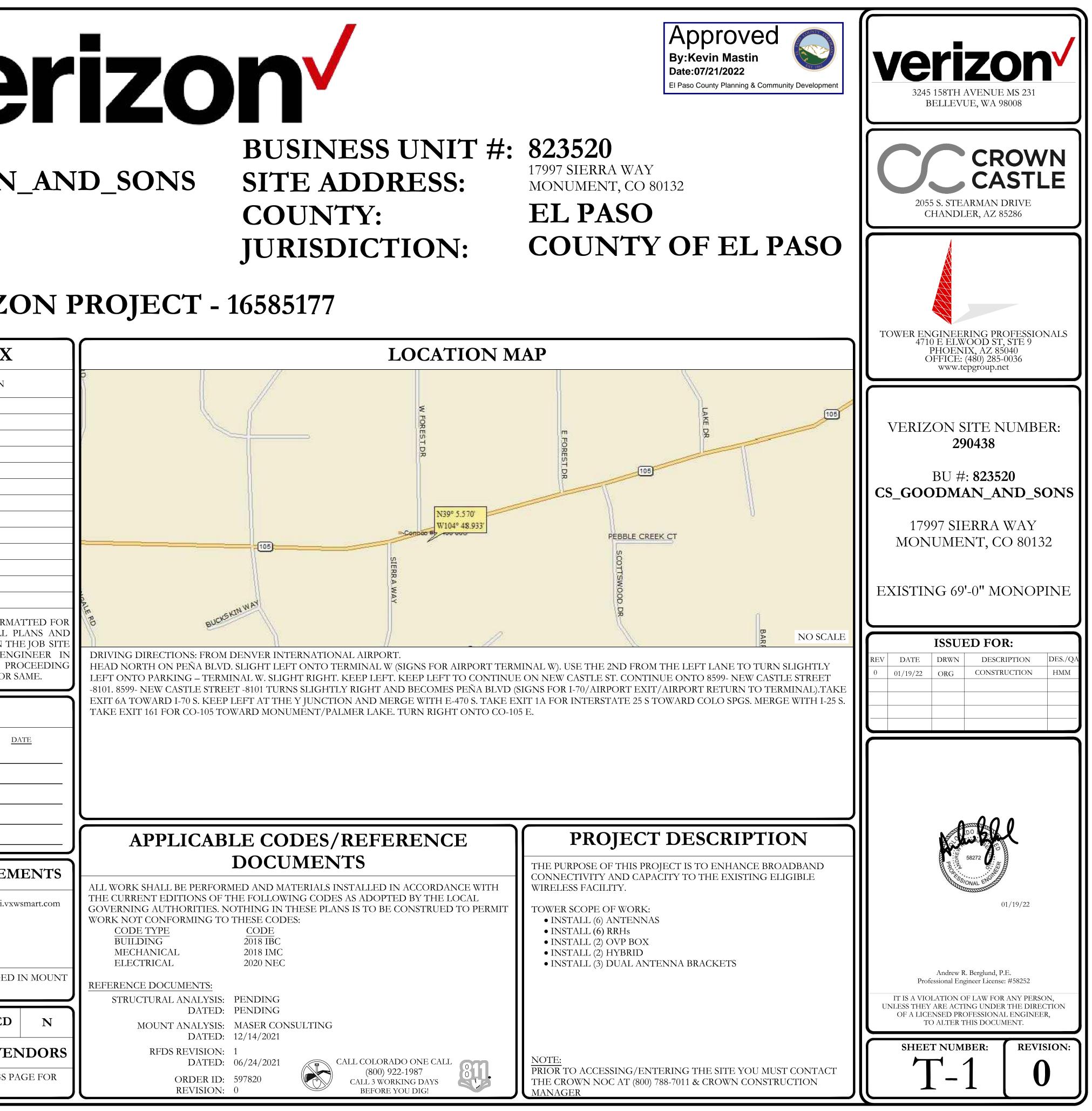


# **VERIZON SITE NUMBER: 290438 VERIZON SITE NAME:** SITE TYPE: **69'-0'' TOWER HEIGHT:**

SIT	<b>E INFORMATION</b>		DRAWING INDEX		
CROWN CASTLE USA IN SITE NAME:	C. CS_GOODMAN_AND_SONS	SHEET #	SHEET DESCRIPTION		
SITE ADDRESS:	17997 SIERRA WAY	T-1	TITLE SHEET		
	MONUMENT, CO 80132	T-2	GENERAL NOTES		
COUNTY:	EL PASO	C-1	SITE PLAN		
MAP/PARCEL #:	6118009003	C-2	TOWER ELEVATIONS		
AREA OF CONSTRUCTIO	DN: EXISTING	C-3	ANTENNA PLANS		
LATITUDE:	39° 49' 40.52"	C-4	FINAL EQUIPMENT SCHEDULE		
LONGITUDE:	-105° 07' 02.92"		EQUIPMENT DETAILS		
LAT/LONG TYPE: GROUND ELEVATION:	NAD83 7490 FT ±	C-5			
CURRENT ZONING:	RR-2.5	C-6	PLUMBING DIAGRAM		
JURISDICTION:	CITY OF ARVADA	G-1	GROUNDING DETAILS		
, OCCUPANCY CLASSIFIC	ATION: U	G-2	GROUNDING DETAILS		
TYPE OF CONSTRUCTIO	DN: IIC				
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION				
PROPERTY OWNER:	BOILEAU ROBERT J III 2700 YOUNGFIELD STE 280 LAKEWOOD, CO 80215		VINGS CONTAINED HEREIN ARE FOR		
TOWER OWNER:	CROWN CASTLE 17995 SIERRA	EXISTING AND SHA	E. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON T LL IMMEDIATELY NOTIFY THE EN		
	MONUMENT, CO 80132-8424		OF ANY DISCREPANCIES BEFORE F H THE WORK OR BE RESPONSIBLE FOR		
CARRIER/APPLICANT:	VERIZON WIRELESS 3245 158TH AVENUE MS 231 BELLEVUE, WA 98008				
	DEEELVCE, WIT JOOOD		APPROVALS		
ELECTRIC PROVIDER:	MOUNTAIN VIEW ELECTRIC (800) 388-9881		SIGNATURE		
TELCO PROVIDER:	CENTURYLINK (866) 642-0444				
I	PROJECT TEAM	$\exists l = $			
	TOWER ENGINEERING PROFESSIONALS	CONT	<b>FRACTOR PMI REQUIRE</b>		
	-710 E ELWOOD ST, STE 9 PHOENIX, AZ 85040				
	DFFICE: (480) 285-0036	PMI ACCH	ESSED AT https://pmi.v		
	2055 S. STEARMAN DRIVE		OOL VENDOR		
USA INC. DISTRICT ( CONTACTS:	CHANDLER, AZ 85286	5	NUMBER _		
	PROJECT MANAGER 	VzW LOC.	ATION CODE (PSLC) 280313		
	CONSTRUCTION MANAGER 		AND REQUIREMENTS ALSO EMBEDDE Lysis report		
	ABRINA LANCASTER ABRINA. LANCASTER@CROWN CASTLE.COM	MOUN	MOUNT MODIFICATION REQUIRED		
		VzW A	PPROVED SMART KIT VE		
		REFER TO	O MOUNT MODIFICATION DRAWINGS		



# CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- 1. NOTICE TO PROCEED- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CÓNTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
- 2. "LOOK UP" CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED-STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION)
- 5. ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED-STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION. 10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
- 11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
- 12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY
- 13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES
- 14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
- 15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS. 16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED
- RFACE APPLICATION. 17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER,
- EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS. 18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL
- MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL. 19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND
- STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- 21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
- 22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

# GREENFIELD GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- 4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED
- WITH THE POWER CIRCUITS TO BTS EQUIPMENT. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED
- COPPER FOR OUTDOOR BTS. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. 11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- 12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- 13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- 14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR. 15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- 17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC. 18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR. 19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS,
- METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT. 20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION
- POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL). 21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING. TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

# GENERAL NOTES:

- CONTRACTOR: CARRIER: VERIZON TOWER OWNER: CROWN CASTLE USA INC.
- MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

- CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
- ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.

- WITH ANY SUCH CHANGE OF INSTALLATION.
- DRAWINGS
- DESIGNATED LOCATION.
- A DAILY BASIS.

# CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE. 2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- 3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT
- CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
- ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
- #5 BARS AND LARGER .... THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE
- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ... CONCRETE EXPOSED TO EARTH OR WEATHER:
- SLAB AND WALLS ....
- OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- #6 BARS AND LARGER ... #5 BARS AND SMALLER ...

- BEAMS AND COLUMNS ..

- #4 BARS AND SMALLER..... ON DRAWINGS:
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER:

## FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR

THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER

SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE

CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE

PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE

ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING

11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN

12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.

14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON

13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S

40 ksi

..60 ksi

# ELECTRICAL INSTALLATION NOTES:

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.

CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED. 3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC. 4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO

REQUIREMENT OF THE NATIONAL ELECTRICAL CODE. 4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.

EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE

CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).

PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS

8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER)

WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED. 10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED. 11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS

OTHERWISE SPECIFIED.

TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED. BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).

12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH 13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND 14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE

AND NEC. 15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS

16. ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS. 17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT

18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE. 20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND

THE NEC.

21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).

22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL). 23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE 24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR

BETTER) FOR EXTERIOR LOCATIONS.

METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.

26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS. 27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC

BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.

29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON". 30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

COND	UCTOR COL	_OR CODE					
SYSTEM	CONDUCTOR	COLOR					
	A PHASE	BLACK					
120/240V, 1Ø	B PHASE	RED					
120/2400, 10	NEUTRAL	WHITE					
	GROUND	GREEN					
	A PHASE	BLACK					
	B PHASE	RED					
120/208V, 3Ø	C PHASE	BLUE					
	NEUTRAL	WHITE					
	GROUND	GREEN					
	A PHASE	BROWN					
	B PHASE	ORANGE OR PURPL					
277/480V, 3Ø	C PHASE	YELLOW					
	NEUTRAL	GREY					
	GROUND	GREEN					
DC VOLTAGE	POS (+)	RED**					
DU VULIAGE	NEG (-)	BLACK**					

<u>A</u>	<u>P</u>
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ANIT 

ABBREVIATIONS:

\*\* POLARITY MARKED AT TERMINATION

ANT	ANTENNA
(E)	EXISTING
FIÉ	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NÉC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
Ρ́Ρ́	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RFDS	RADIO FREQUENCY DATA SHEET
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
ТМА	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL

UMTS UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM W.P. WORK POINT

.1-1/2" 3/4' ...1 - 1/2" 7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED

# APWA UNIFORM C<u>olor code</u>

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
ELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
RANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
URPLE	RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
REEN	SEWERS AND DRAIN LINES

CHANDLER, AZ 85286 TOWER ENGINEERING PROFESSIONALS

2055 S. STEARMAN DRIVE

verizon

6245 158TH AVENUE MS 231

CROWN

CASTLE

BELLEVUE, WA 98008

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

# **VERIZON SITE NUMBER:** 290438

BU #: 823520 CS\_GOODMAN\_AND\_SONS

> 17997 SIERRA WAY MONUMENT, CO 80132

EXISTING 69'-0" MONOPINE

# **ISSUED FOR:** DES./Q REV | DATE | DRWN | DESCRIPTION CONSTRUCTION | HMM 01/19/22 ORG



01/19/22

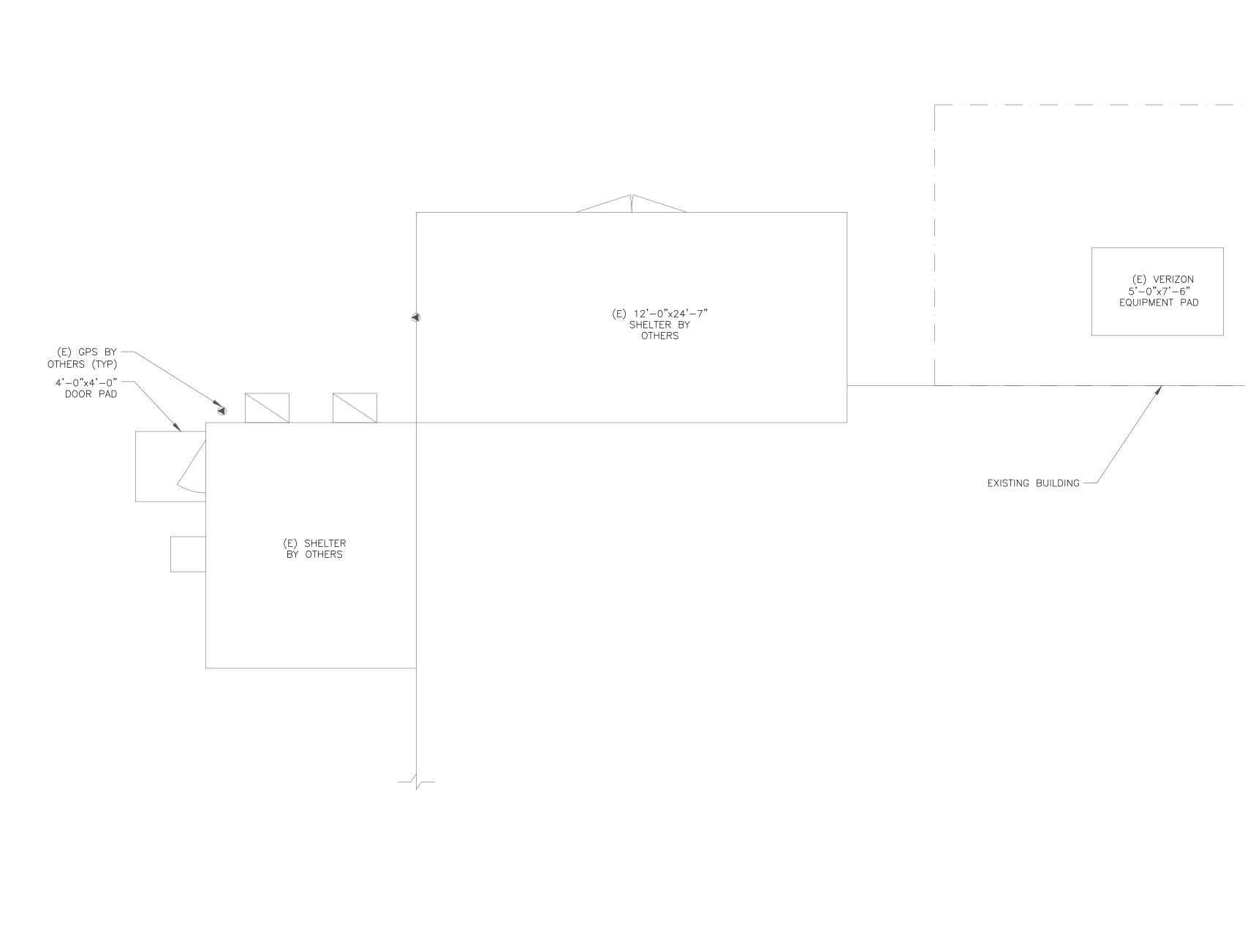
**REVISION:** 

Andrew R. Berglund, P.E. Professional Engineer License: #58252

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.

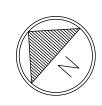
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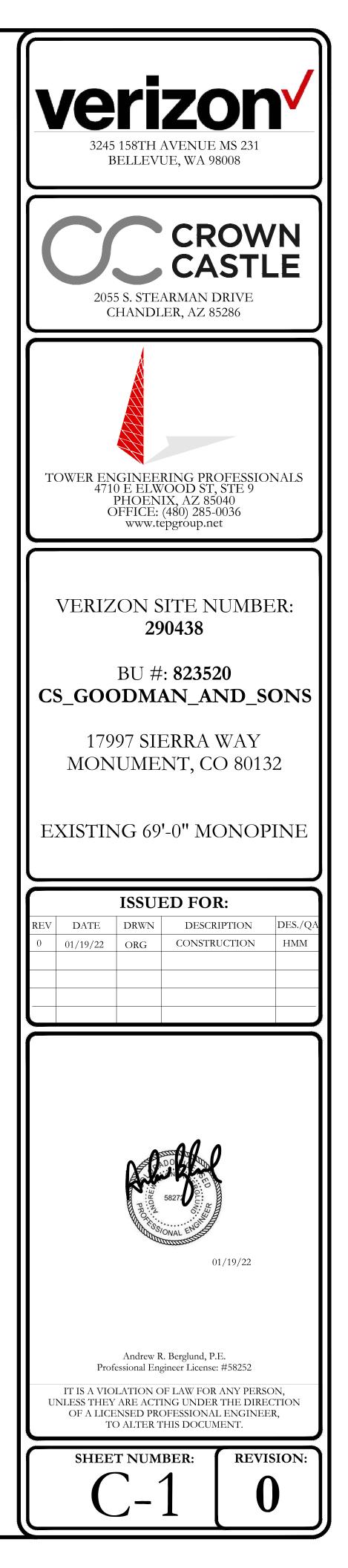
FLOODPLAIN NOTE: THE TOWER IS LOCATED IN ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO FEMA COMMUNITY PANEL #08041C0279G, EFFECTIVE ON 12/07/2018. — (E) 6'-0"ø FND PIER — (E) 69'—0" MONOPINE (E) DOG HOUSE

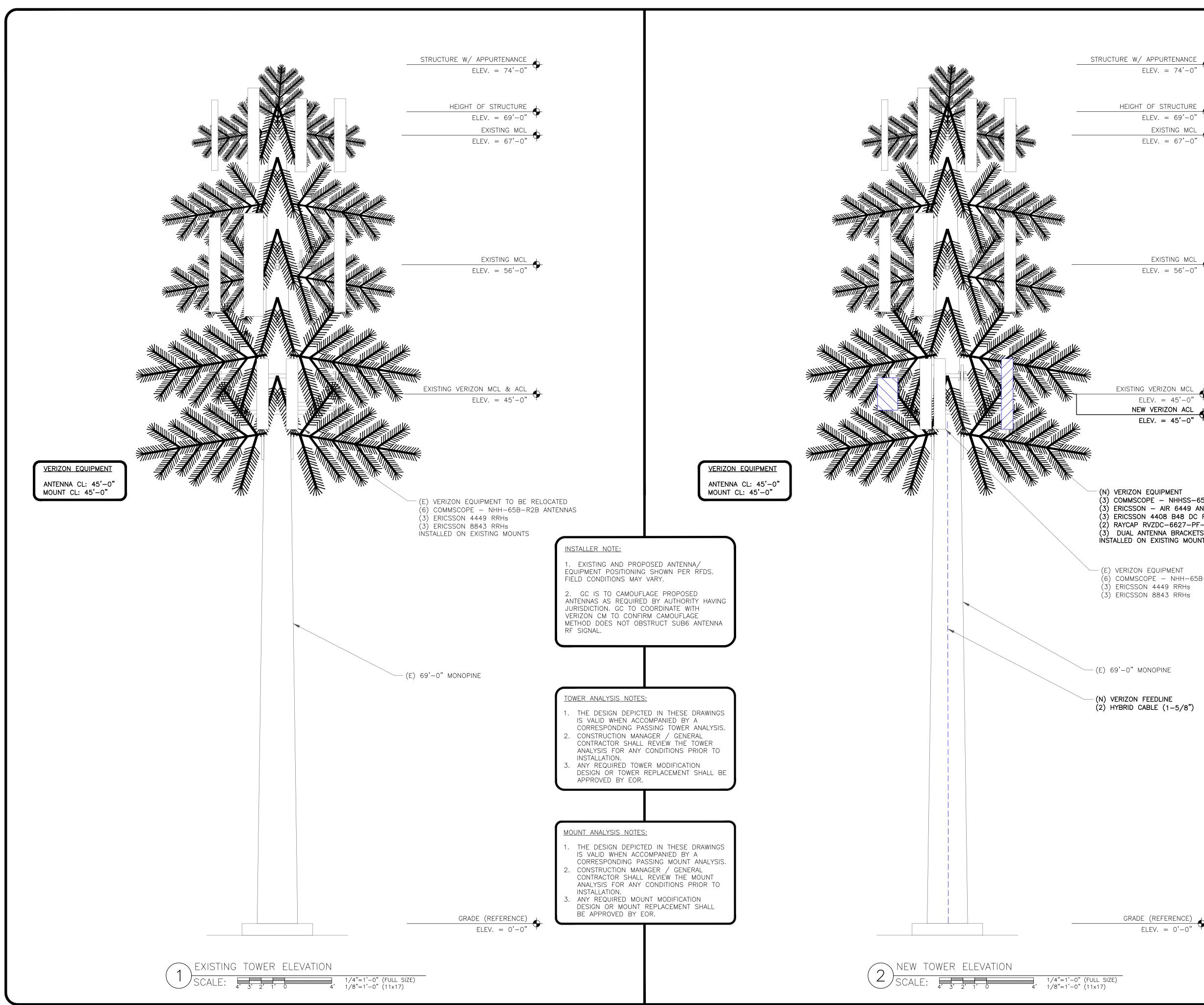


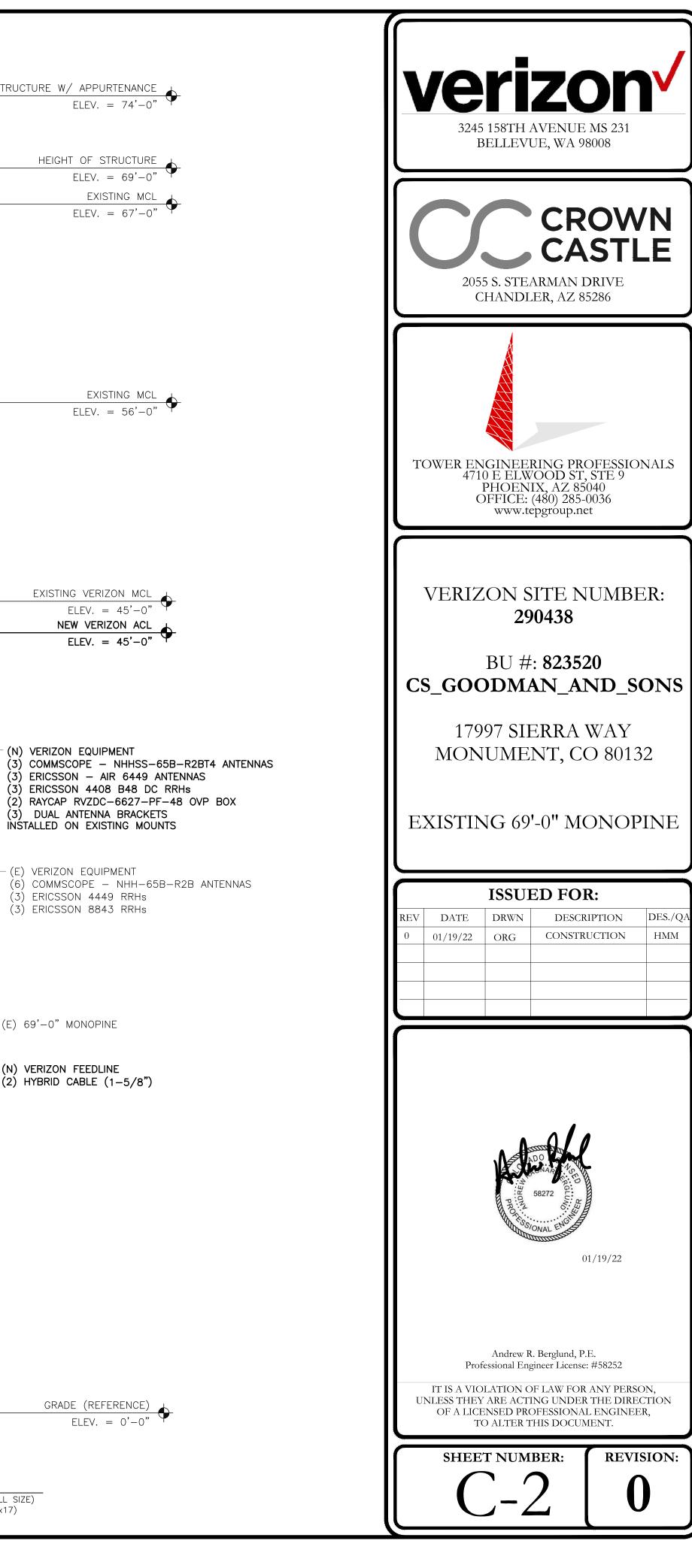


1/2"=1'-0" (FULL SIZE) 1/4"=1'-0" (11x17) 









DES./Q

HMM

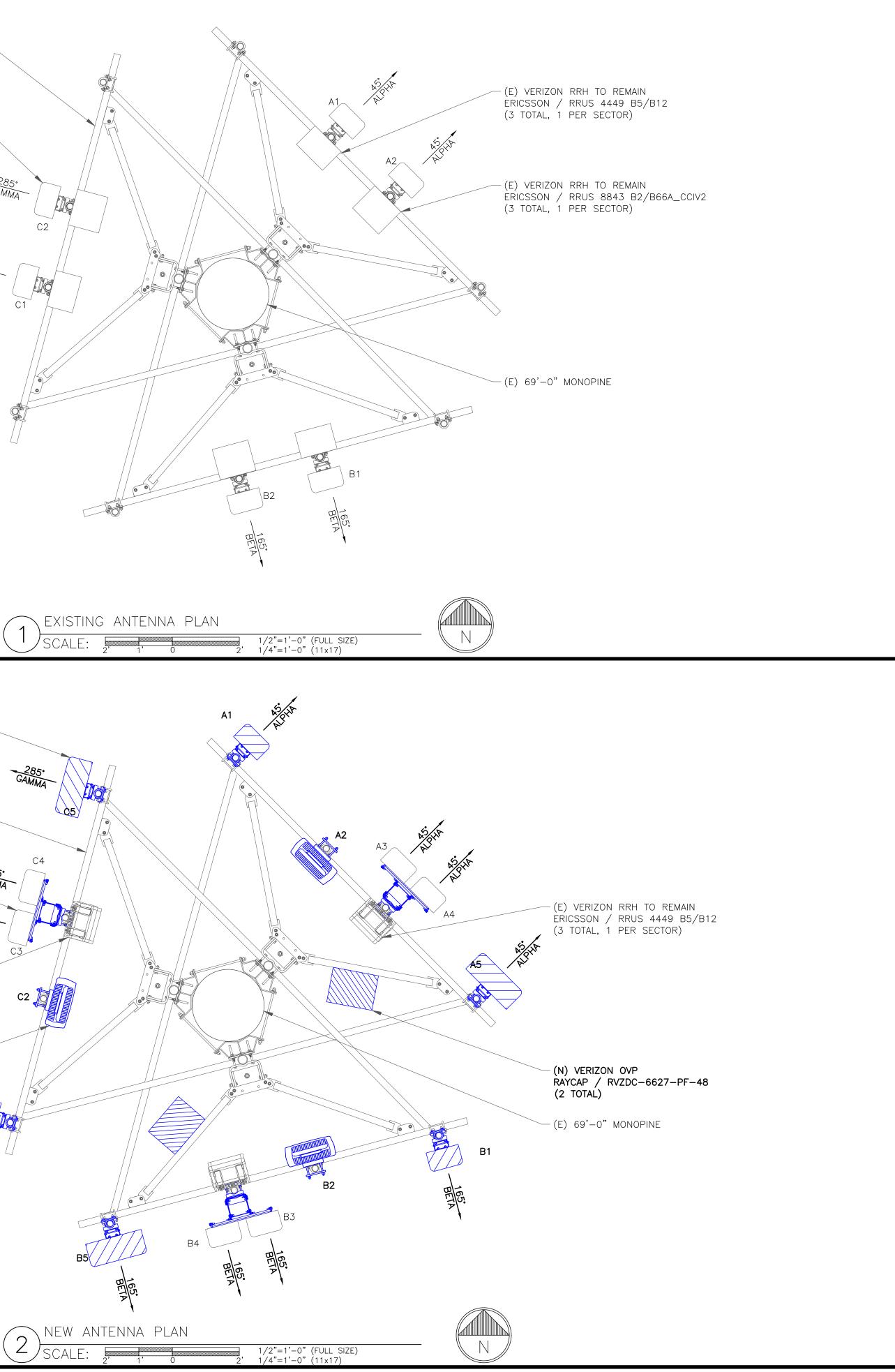
**REVISION:** 

(E) SECTOR MOUNT TO REMAIN — (TYP OF 3)

(E) VERIZON ANTENNA TO REMAIN COMMSCOPE / NHH-65B-R2B ANTENNA (6 TOTAL, 2 PER SECTOR)

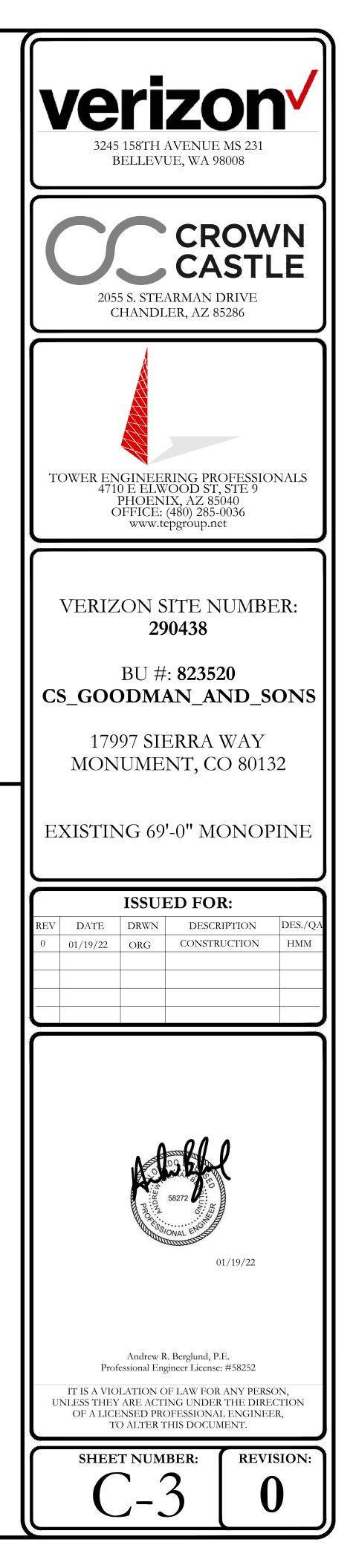
> -285° GAMMA

U SCALE
(N) VERIZON ANTENNA (3) ERICSSON – AIR 6449 (3 TOTAL, 1 PER SECTOR)
(E) SECTOR MOUNT (TYP OF 3)
(E) VERIZON ANTENNA COMMSCOPE / NHH-65B-R2B (6 TOTAL, 2 PER SECTOR)
(E) VERIZON RRH ERICSSON / RRUS 8843 B2/B66A_CCIV2 (3 TOTAL, 1 PER SECTOR)
(N) VERIZON RRH ERICSSON – RADIO 4408 B48 DC (3 TOTAL, 1 PER SECTOR)
(N) VERIZON ANTENNA (3) COMMSCOPE – NHHSS–65B–R2BT4 (3 TOTAL, 1 PER SECTOR)



INSTALLER NOTE: EXISTING AND PROPOSED ANTENN

EXISTING AND PROPOSED ANTENNA/ EQUIPMENT POSITIONING SHOWN PER RFDS. FIELD CONDITIONS MAY VARY.

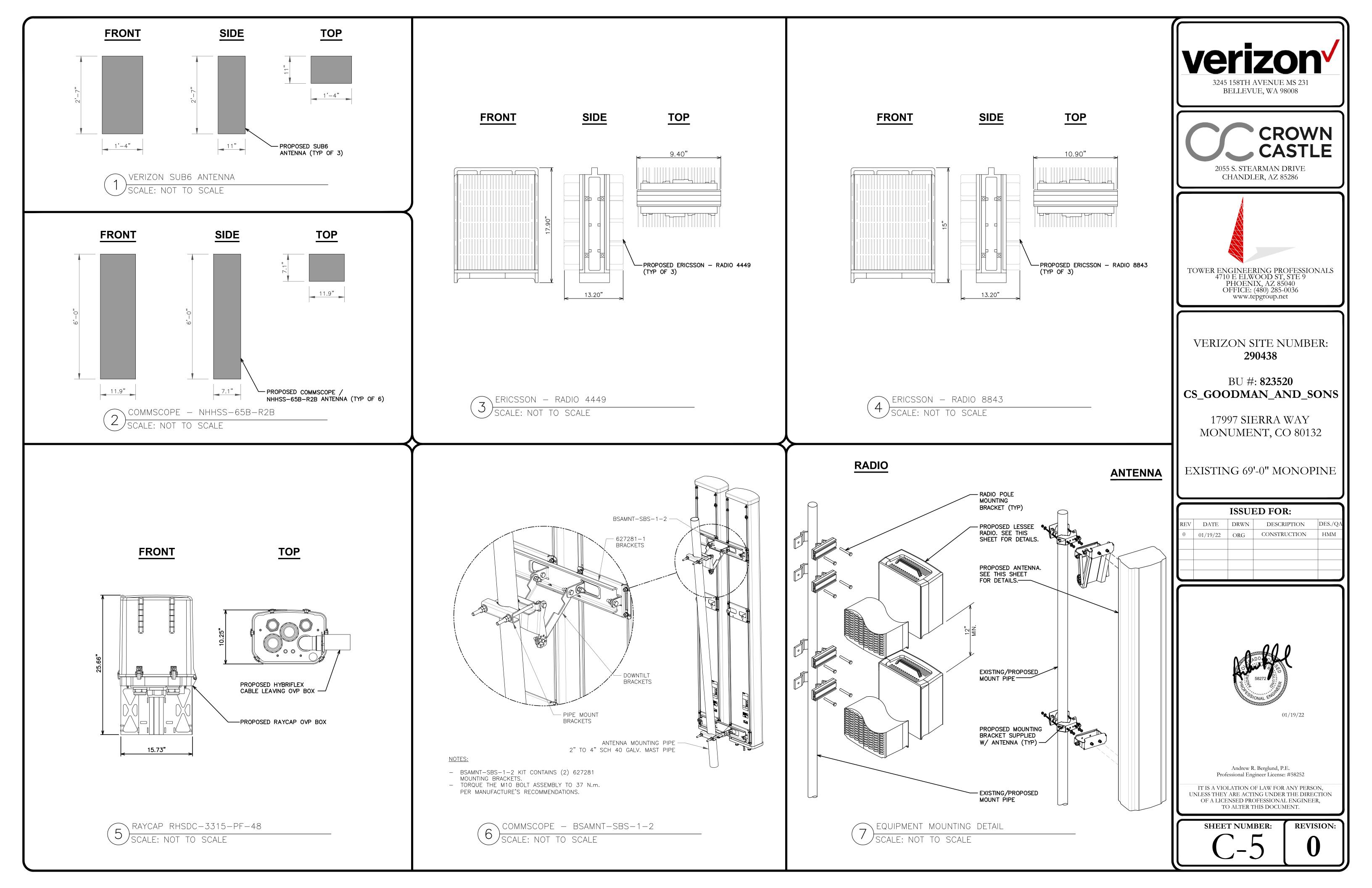


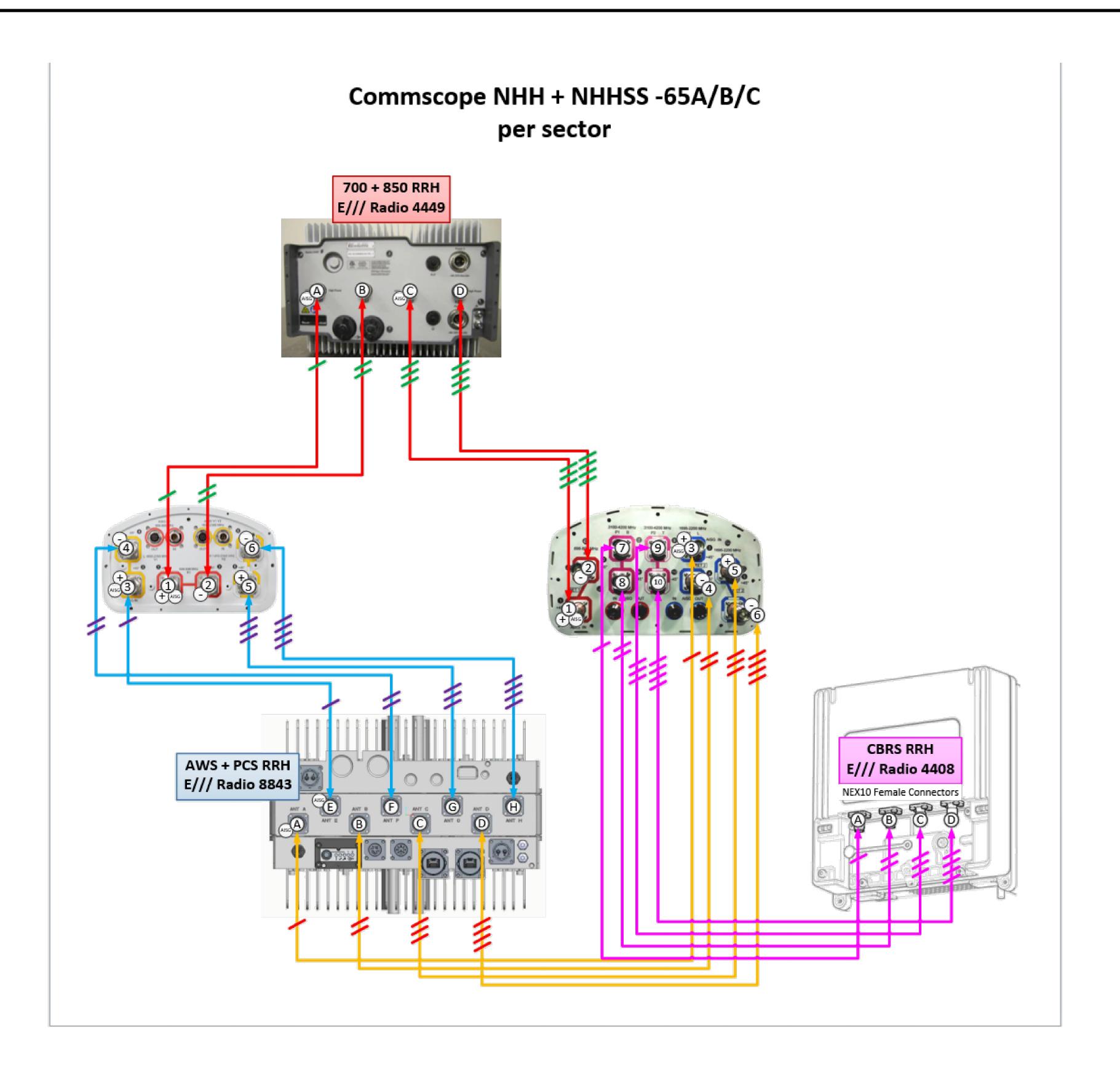
ANTENNA/RRH SCHEDULE											
SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL		
A1	NEW	COMMSCOPE	NHHSS-65B-R2BT4	45'-0"	45 <b>°</b>	0°	0.	_	_		
A2	_	_	_	45'-0"	45°	0.	0.	ERICSSON	(1) 4408 B48 DC RADIO		
A3	EXISTING	COMMSCOPE	NHH-65B-R2B	45'-0"	45°	0,	0°	ERICSSON	(1) RADIO 4449		
A4	EXISTING	COMMSCOPE	NHH-65B-R2B	45'-0"	45°	0,	0°	<b>RAYCAP</b> ERICSSON	(1) RVZDC-6627-PF-48 (1) RRUS 8843		
A5	NEW	ERICSSON	AIR 6449	45'-0"	45°	0.	0.	_	_		
B1	NEW	COMMSCOPE	NHHSS-65B-R2B	45'-0"	165 <b>°</b>	0.	0.	ERICSSON	(1) 4408 B48 DC RADIO		
B2	_	_	_	45'-0"	165 <b>°</b>	0.	0.	ERICSSON	(1) 4408 B48 DC RADIO		
В3	EXISTING	COMMSCOPE	NHH-65B-R2B	45'-0"	165°	0°	0°	ERICSSON	(1) RADIO 4449		
B4	EXISTING	COMMSCOPE	NHH-65B-R2B	45'-0"	165°	0,	0.	<b>RAYCAP</b> ERICSSON	<b>(1) RVZDC-6627-PF-48</b> (1) RRUS 8843		
B5	NEW	ERICSSON	AIR 6449	45'-0"	165 <b>°</b>	0.	0.	_	_		
C1	NEW	COMMSCOPE	NHHSS-65B-R2B	45'-0"	285 <b>'</b>	0*	0.	_	_		
C2	_		_	45'-0"	285 <b>'</b>	0.	0.	ERICSSON	(1) 4408 B48 DC RADIO		
C3	EXISTING	COMMSCOPE	NHH-65B-R2B	45'-0"	285°	0.	0.	ERICSSON	(1) RADIO 4449		
C4	EXISTING	COMMSCOPE	NHH-65B-R2B	45'-0"	285°	0,	0°	ERICSSON	(1) RRUS 8843		
C5	NEW	ERICSSON	AIR 6449	45'-0"	285 <b>'</b>	0.	0.	_	_		

С	ABLE S	CH
STATUS	CABLE TYPE	v,
NEW	HYBRID	1–
TOTAL CABLE QTY:		

	245 158TH BELLEV		MS 231	
	055 S. STE CHANDI	CA		
	ENGINEE 710 E ELW PHOEN OFFICE: www.t		STE 9 040 0036	NALS
VERI	ZON S		UMBE	ER:
CS_GC	BU #	00438 : 82352 AN AT	-	
17	7997 SII NUME	ERRA `	WAY	
EXIST		ŕ		
	ISSU	ED FOI	R:	$\overline{}$
REV         DATE           0         01/19/22		DESCR CONSTR	IPTION UCTION	DES./QA HMM
	State of the state	58272 ONAL ENGINE	<b>K</b> 1/19/22	
	Andrew P	ONAL ENGLASS	Е.	
IT IS A V UNLESS TH	Professional En /IOLATION C IEY ARE ACT ICENSED PRO	R. Berglund, P. gineer License DF LAW FOR ING UNDER	E. : #58252 ANY PERSC THE DIREC L ENGINEE	CTION

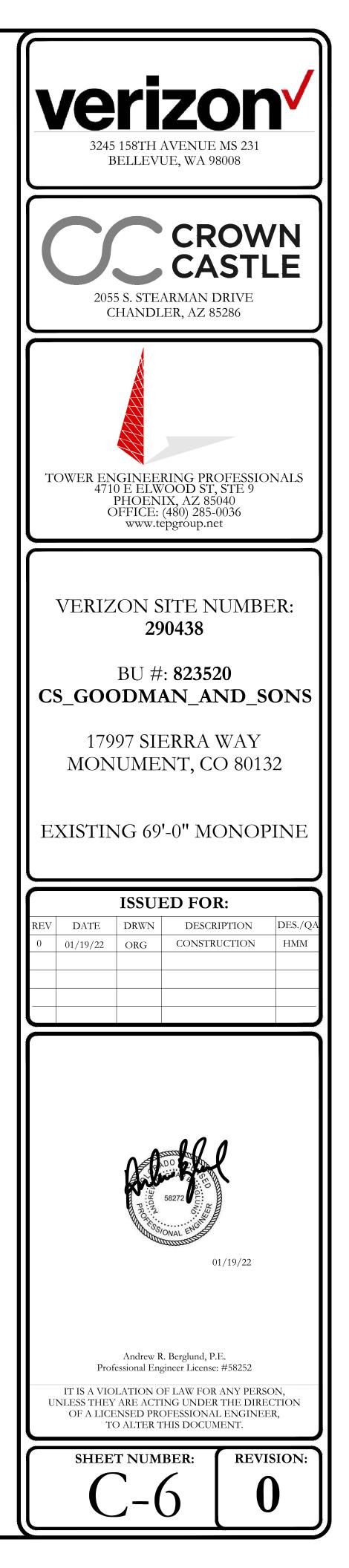
# HEDULE SIZE LENGTH QTY 1-5/8" 95'-0"± 2 1 1

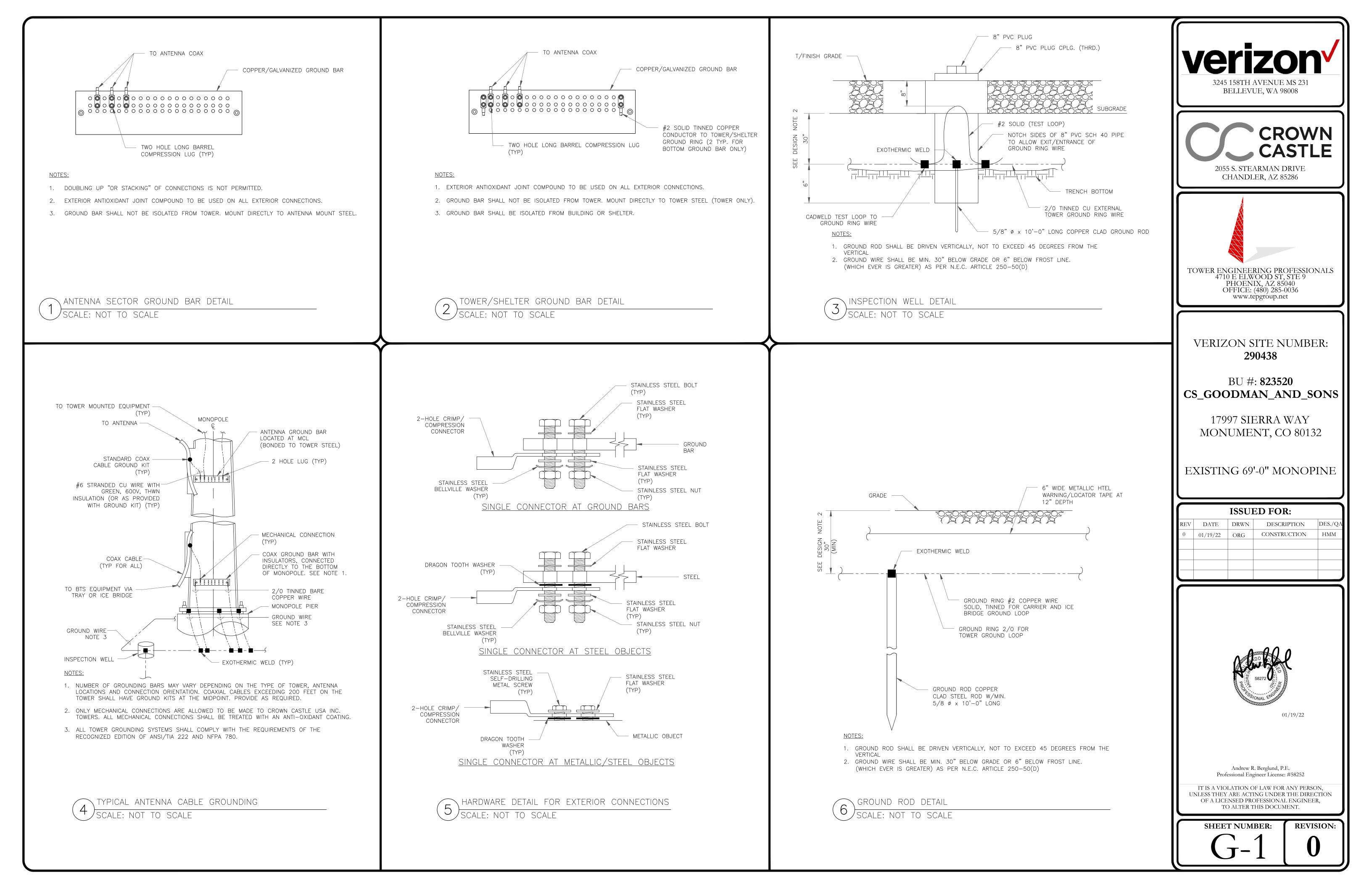


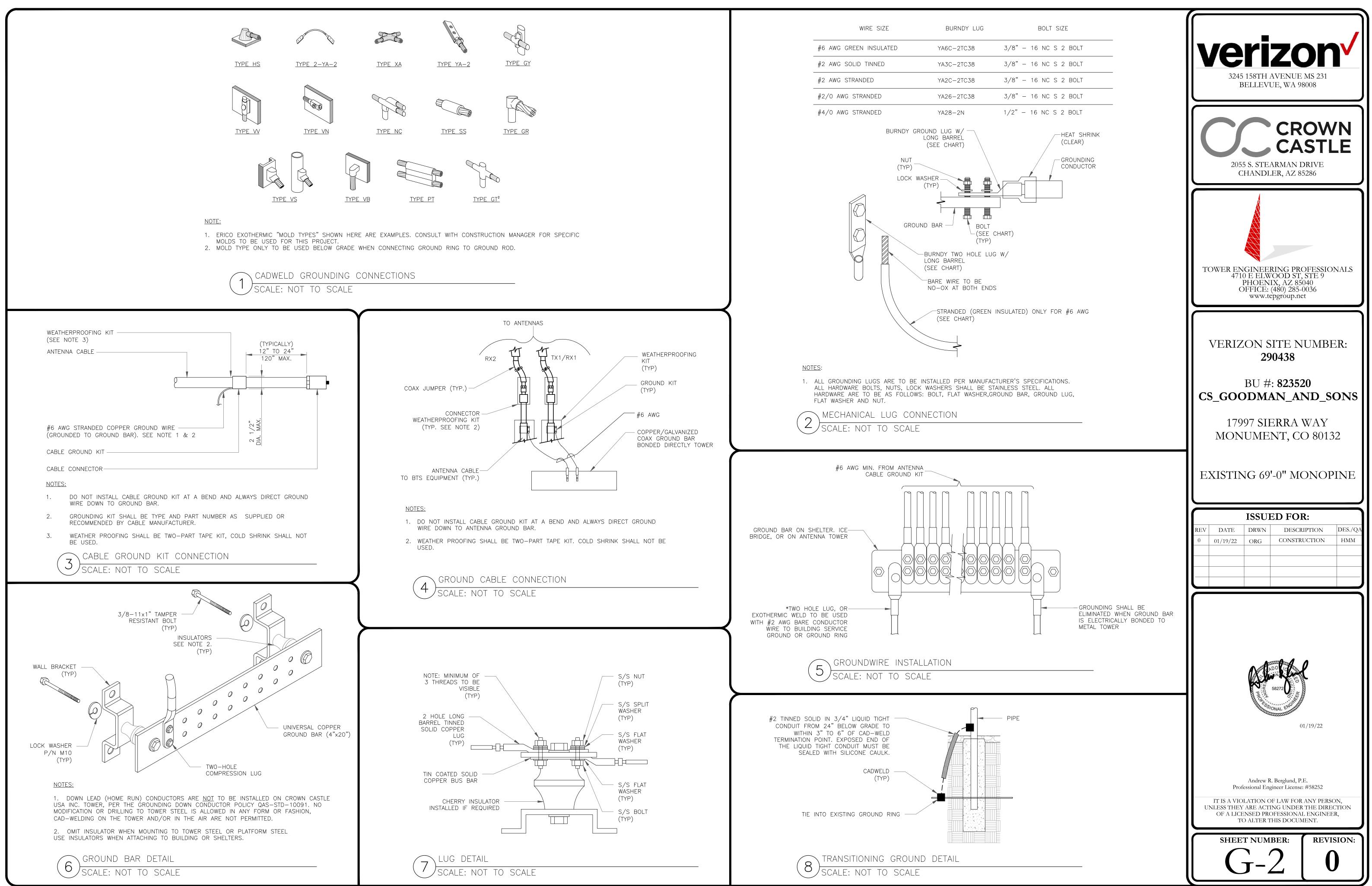


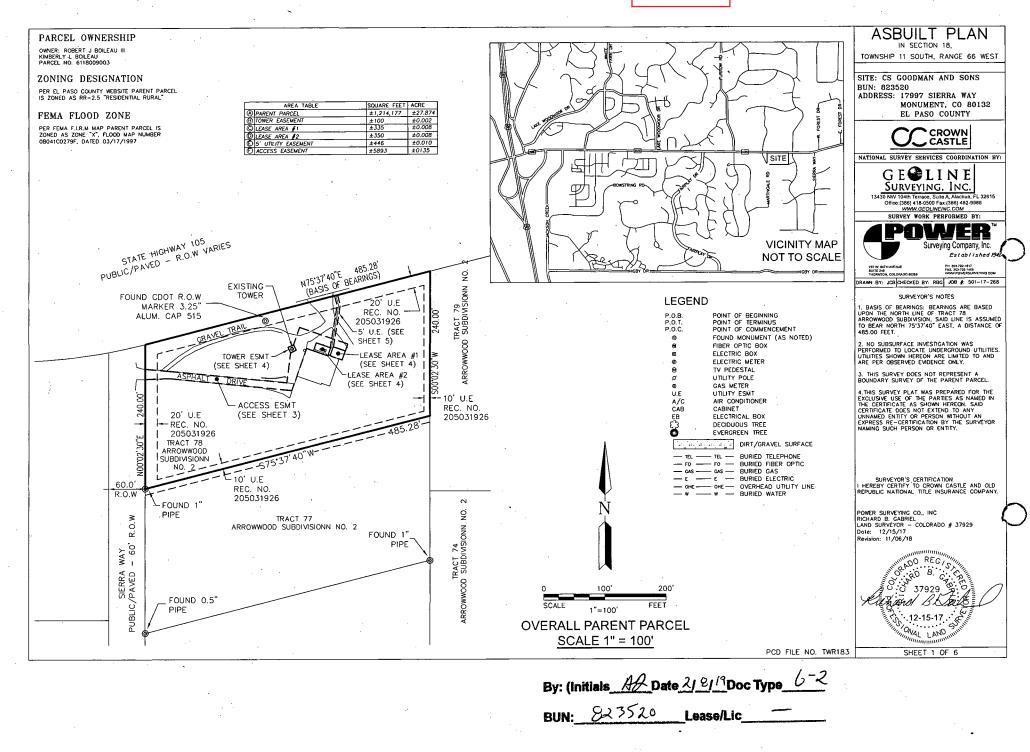
# FOR REFERENCE ONLY

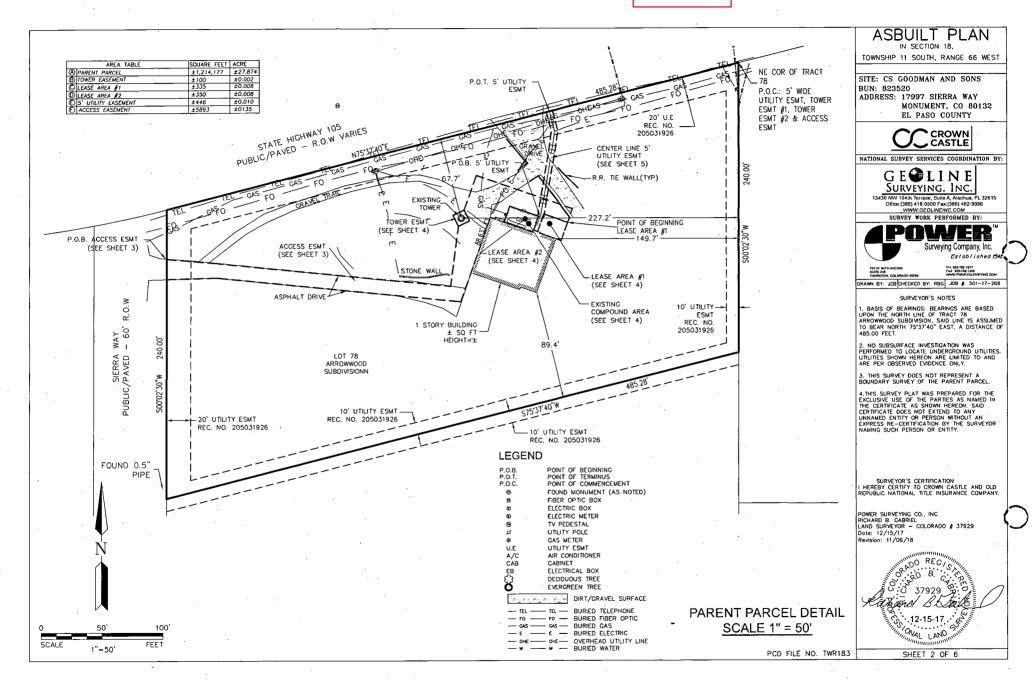
PLUMBING DIAGRAM SCALE: NOT TO SCALE

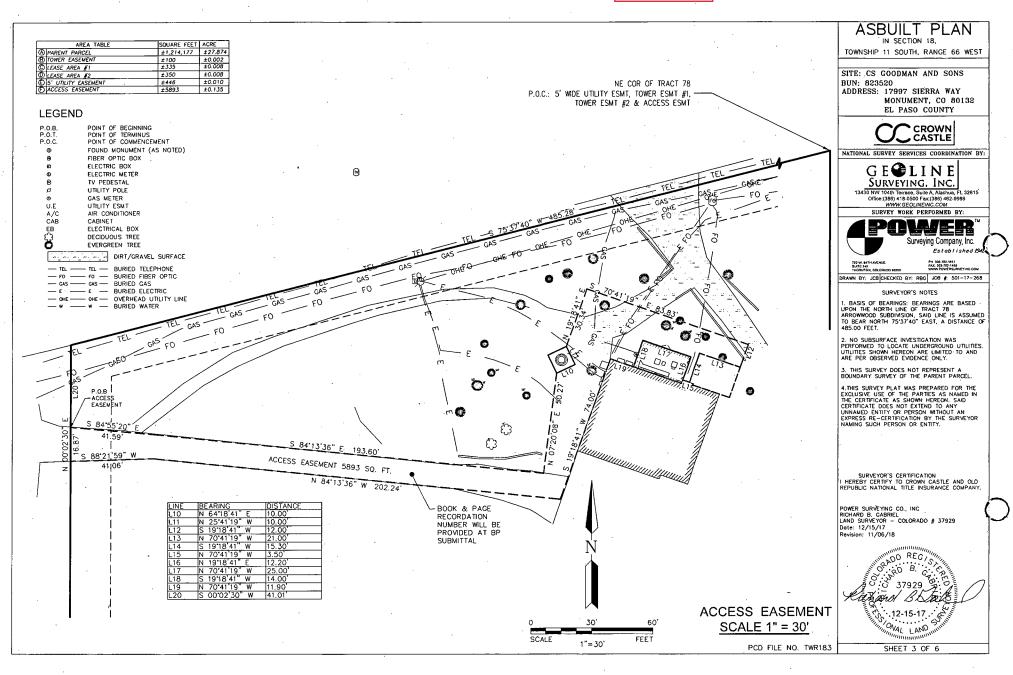




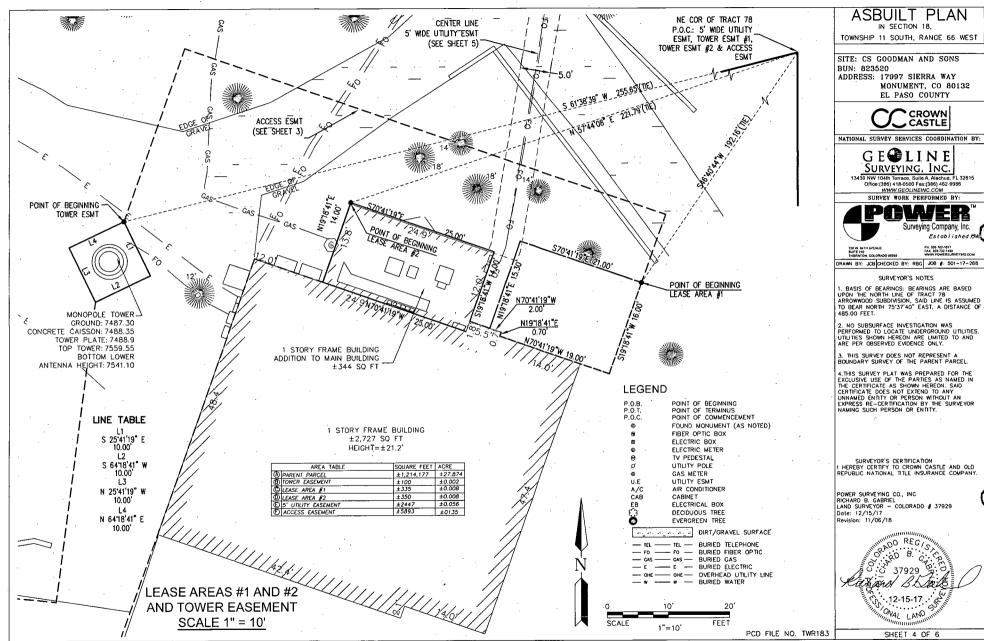






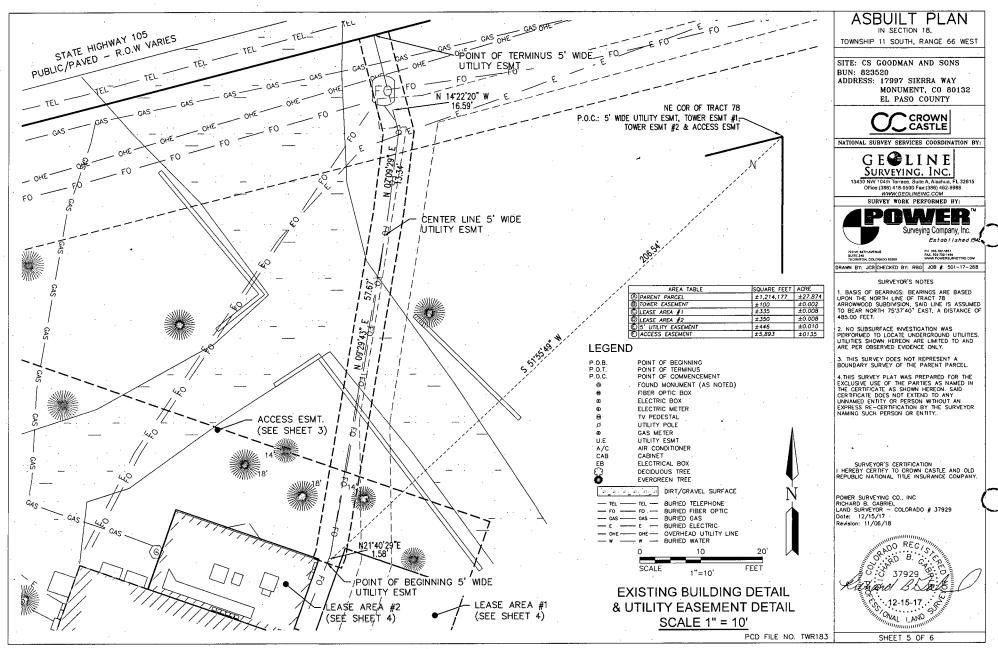


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PCD FILE NO. TWR183





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#### PARCEL OWNERSHIP

OWNER: ROBERT J BOILEAU III KIMBERLY L BOILEAL PARCEL NO. 6118009003

#### PARENT PARCEL DESCRIPTION

(THE FOLLOWING LEGAL DESCRIPTION IS THE SAME AS THAT IN OLD REPUBLIC TITLE INSURANCE COMPANY'S COMMITMENT NO. 01-17068604-015, EFFECTIVE SEPTEMBER 18, 2017)

TRACT 78, ARROWWOOD SUBDIVISION NO 2, EL PASO COUNTY, COLORADO ACCORDING TO THE PLAT THEREFORE RECORDED ON PLAT BOOK A-2 AT PAGE 66.

ALSO KNOWN AS 17995 SIERRA WAY, MONUMENT, CO 80132

#### SCHEDULE B-II EXCEPTIONS

(THE FOLLOWING SCHEDULE B-II EXCEPTIONS ARE THE SAME AS THOSE IN OLD REPUBLIC TITLE INSURANCE COMPANY'S OWNERSHIP AND ENCUMBRANCE REPORT NO, 01-1706B604-01S, EFFECTIVE SEPTEMBER 18, 2017, ITEM NUMBER 1 IS NON-SURKY RELATED AND NOT ADDRESSED HEREON)

(2) ARROWWOOD PLAT MAP, AS RECORDED IN PLAT BOOK A2, PAGE(S) 66 OF EL PASO COUNTY RECORDS.

## AFFECTS SUBJECT PROPERTY. PLOTTED AND SHOWN HEREON.

(3) CO-LOCATION DOCUMENT, RECORDED 10/27/2005, AS INSTRUMENT NO. 20512071 OF EL PASO COUNTY RECORDS. AFFECTS SUBJECT PROPERTY, NOT PLOTED AND SHOWN HEREON AS THE CUENT. REQUESTED ALL LEASES AND EASEMENTS BE REVISED AND RE-WRITEN.

(4) MEMORANDUM OF LEASE BY AND BETWEEN ROBERT J. BOILEAU, III AND KIMBERLY L. BOILEAU, LESSOR(S) AND NEW CINCULAR WIRELESS PCS, LLC, LESSE(S), RECORDED 08/28/2012, AS INSTRUMENT NO. 212100008 OF THE EL PASO COUNTY RECORDS

#### NO DOCUMENT PROVIDED FOR REVIEW.

(5) MEMORANDUM OF MASTER PREPAID LEASE AND MANAGEMENT AGREEMENT BY (3) MEMOKANDOM OF MASIER THEFAIL LABE AND MAINLEMENT LABILITY AND BETWEEN TMOBILE WEST TOWER LLC. A DELAWARE LIMITED LABILITY COMPANY, LESSEE, RECORDED 09/29/2013, AS INSTRUMENT NO. 213110878 OF THE EL PASO COUNTY RECORDS

#### AFFECTS SUBJECT PROPERTY, PLOTTED AND SHOWN HEREON.

(6) MEMORANDUM OF LEASE BY AND BETWEEN ROBERT J. BOILEAU, III AND (6) MEMURANDUM OF LEASE BY AND BE VIECN HODERI'S BOLEAG, IN KIMBERLY L. BOLEAJ, LANDLORO, AND NEW CINCULAR WIRELESS PCS. LLC, A DELAWARE LIMITED LIABILITY COMPANY, TENANT, RECORDED, 11/25/2013, AS INSTRUMENT NO. 213142265 OF THE L PASO COUNTY RECORDS. AFFECTS SUBJECT PROPERTY. NOT PLOTED AND SHOWN HERCON AS THE CUENT. REQUESTED THE LEASES AND EASEMENTS BE REVISED AND RE-WRITTEN.

#### ACCESS EASEMENT DESCRIPTION

(CREATED BY THIS OFFICE)

A PORTION OF TRACT 78 OF ARROWWOOD SUBDIVISION NO. 2. LYING WITHIN THE EAST HALF (E1/2) OF SECTION 18, TOWNSHIP 11 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL WERTIGNAL COUNTY OF EL PASO, STATE OF COLORADO, AND BEING MARE DESCRIBED AS

COMMENCING AT THE NORTHEAST CORNER OF SAID TRACT 78, FROM WHENCE THE NORTHWEST CORNER OF SAID TRACT 78 BEARS SOUTH 75'37'40' WEST A DISTANCE OF 485.28 FEEL, WITH ALL BEARINGS HEREIN RELATED HERETO,

THENCE SOUTH 75"37"40" WEST ALONG THE NORTH LINE OF SAID TRACT 78. A DISTANCE OF

485.28 FEET, JOINT DE TRUST ALCHO THE WEST LINE OF SAID TRACT 78, A DISTANCE OF THENCE SOUTH NOR23'OF WEST ALCHO THE WEST LINE OF SAID TRACT 78, A DISTANCE OF 41.01 FEET TO THE POINT OF BEGINNING. THENCE DEPARTING SAID WEST LINE, SOUTH 84'55'20' EAST A DISTANCE OF 41.59 FEET;

		8413'36"												
THENCE	NORTH	07'20'08'	EAST	A DIS	STANCE	OF	50.27	FEET;						
THENCE	NORTH	64'18'41"	EAST /	A DIS	TANCE	OF	10.00	FEET;						
THENCE	NORTH	25*41'19*	WEST /	A DIS	TANCE	OF	10.00	FEET;						
THENCE	NORTH	19"18'41"	EAST A	DIS	TANCE	OF	30.34	FEET;						
THENCE	SOU TH	70'41'19"	EAST #	DIS	TANCE	OF	83.83	FEET;						
THENCE	SOU TH	19"18'41"	WEST A	DIS	TANCE	OF	12.00	FEET;						
THENCE	NORTH	70*41*19*	WEST /	A DIS	TANCE	OF	21.00	FEET;						
		1918 41												
		70'41'19"												
		19'18'41'												
		70'41'19"												
		1918411												
		70.41.18.												
		19'18'41"												
		8413361							r:					
		88'21'59'												
THENCE	NORTH	00.05.30.	EAST .	A DIS	STANCE	OF	16.87	FEET	TO	THE	POINT	OF	BECINNING.	

CONTAINING ±5.893 SQUARE FEET OR ±0.135 ACRES MORE OR LESS

#### LEASE AREA #1 DESCRIPTION (CREATED BY THIS OFFICE)

A PORTION OF TRACT 78 OF ARROWWOOD SUBDIVISION NO. 2, LYING WITHIN THE EAST HALF (E 1/2) OF SECTION 18, TOWNSHIP II SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID TRACT 78, FROM WHENCE THE NORTHWEST CORNER OF SAID TRACT 78 BEARS SOUTH 75 3740° WEST A DISTANCE OF 485.28 FEET, WITH ALL BEARINGS HEREIN RELATED THERETO; THENCE SOUTH 4842'36° WEST, 192.16 FEET TO THE POINT OF BEGINNING;

THENCE SOUTH 1918'41" WEST, A DISTANCE OF 16.00 FEET TO A POINT; THENCE NORTH 70'41'19" WEST, A DISTANCE OF 19.00 FEET TO A POINT; THENCE NORTH 19118'41" EAST, A DISTANCE OF 15.00 FEET TO A POINT. THENCE NORTH 19118'41" EAST, A DISTANCE OF 2.00 FEET TO A POINT. THENCE NORTH 19118'41" EAST, A DISTANCE OF 15.30 FEET TO A POINT. THENCE NORTH 19118'41" EAST, A DISTANCE OF 15.30 FEET TO A POINT. THENCE SOUTH 70'41'19" EAST, A DISTANCE OF 21.00 FEET TO THE POINT OF RECINIMUM

CONTAINING ±335 SQUARE FEET OR ±0.008 ACRES OF LAND, MORE OR LESS.

### LEASE AREA #2 DESCRIPTION

(CREATED BY THIS OFFICE)

A PORTION OF TRACT 78 OF ARROWWOOD SUBDIVISION NO. 2. LYING WITHIN THE A PORTION OF INAUL72 OF ANNOWNOOD SUBURISION NO. 2, LING WITHIN THE EAST HALF (E 1/2) OF SECTION 18, TOWNSHIP 11 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID TRACT 78, FROM WHENCE THE NORTHWEST CORNER OF SAID TRACT 78 BEARS SOUTH 75'37'40" WEST A DISTANCE OF 485.28 FEET, WITH ALL BEARINGS HEREIN RELATED THERETO; THENCE SOUTH 57"44'08" WEST, 221.79 FEET TO THE POINT OF BEGINNING

THENCE SOUTH 70'41'19" EAST, A DISTANCE OF 25.00 FEET TO A POINT; THENCE SOUTH 1918'41" WEST, A DISTANCE OF 14.00 FEET TO A POINT; THENCE NORTH 1918'41" EAST, A DISTANCE OF 25.00 FEET TO A POINT; THENCE NORTH 1918'41" EAST, A DISTANCE OF 14.00 FEET TO THE POINT OF RECINNING

CONTAINING ±350 SQUARE FEET OR ±0.008 ACRES OF LAND, MORE OR LESS.

#### 5' UTILITY EASEMENT DESCRIPTION

(CREATED BY THIS OFFICE)

A PORTION OF TRACT 78 OF ARROWWOOD SUBDIVISION NO. 2, LYING WITHIN THE EAST HALF (E 1/2) OF SECTION 18, TOWNSHIP 11 SOUTH. RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, AND BEING A S-FOOT WIDE STRIP OF LAND LYING 2.5 FEET ON EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

Commencing at the northeast corner of said tract 78, from whence the northwest corner of said tract 78 bears south 75'3'4'0' west a distance of 485.28 feet, with all bearns herein related therefor. HENCE SOUTH 51'55'49" WEST, A DISTANCE OF 206.54 FEET TO THE POINT OF

THENCE NORTH 21'40'29" EAST, A DISTANCE OF 1.58 FEET TO A POINT; THENCE NORTH 09'29'43" EAST, A DISTANCE OF 57.67 FEET TO A POINT; HENCE NORTH 09/29/3 EAST, A DISTANCE OF 37.07 FEET TO A POWN; THENCE NORTH 10709/29 EAST, A DISTANCE OF 13.34 FEET TO A POWN; THENCE NORTH 14/22/20 WEST, A DISTANCE OF 16.59 FEET TO A POWNT ON THE SOUTH RIGHT OF WAY LINE OF STATE HIGHWAY 50, THE NORTH LINE OF SAID TRACT 78 AND THE POWNT OF TERMINUS.

THE SIDELINES OF SAID EASEMENT SHALL BE MADE TO EXTEND TO OR TRIM TO THE BOUNDARY OF SAID STATE HIGHWAY

CONTAINING ±446 SQ. FEET OR ±0.010 ACRES OF LAND, MORE OR LESS.

#### TOWER EASEMENT (CREATED BY THIS OFFICE)

A PORTION OF TRACT 78 OF ARROWWOOD SUBDIVISION NO. 2. LYING WITHIN THE EAST HALF (E1/2) OF SECTION 18, TOWNSHIP 13 SOUTH, RANGE 68 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID TRACT 78, FROM WHENCE THE NORTHWEST CORNER OF SAID TRACT 78 BEARS SOUTH 75'37'40" WEST A DISTANCE OF 483.28 FEET, WITH ALL BEARINGS HEREIN RELATED THERETO; THENCE SOUTH 61'38'39" WEST, 255.65 FEET TO THE POINT OF BEGINNING:

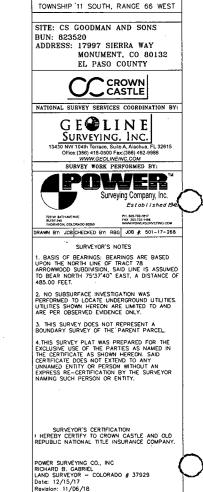
THENCE SOUTH 25'41'19" EAST, A DISTANCE OF 10.00 FEET TO A POINT

THENCE SOUTH 64"18'41" WEST, A DISTANCE OF 10.00 FEET TO A POINT:

THENCE NORTH 25'41'19" WEST, A DISTANCE OF 10.00 FEET TO A POINT

THENCE NORTH 64"18'41" EAST, A DISTANCE OF 10.00 FEET TO THE POINT OF BEGINNING:

CONTAINING ±100 SQUARE FEET OR ±0.002 ACRES OF LAND, MORE OR LESS.



ASBUILT PLAN IN SECTION 18.



PCD FILE NO. TWR183