

CONSTRUCTION DRAWING

- LTE 1C LTE 5C FN
- LTE 2C LTE 6C FN
- LTE 3C 4TXRX
- LTE 4C



Approved

By: Craig Dossey, Executive Director
Date: 06/22/2020



El Paso County Planning & Community Development

at&t

PROJECT SUMMARY

AT&T SITE NAME: SCHREIVER AFB
AT&T SITE #: COL02065
AT&T FA SITE #: 10099187
RFDs ID: 3130541, REV 2.00
SITE ADDRESS: 15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930
COUNTY: EL PASO
LATITUDE: 38° 50' 23.4" N (NAD 83)
 38.839833
LONGITUDE: 104° 32' 13.6" W (NAD 83)
 -104.537111
PROJECT MANAGER: MD7
 10590 W OCEAN AIR DR., STE. 300
 SAN DIEGO, CA 92130
CONTACT: HAILEE PERUCCI
 (858) 799-7886
APPLICANT: AT&T MOBILITY
 188 INVERNESS DRIVE WEST
 ENGLEWOOD, CO 80112
ENGINEER: INFINIGY ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
CONTACT: NANCY HERNANDEZ
 (847) 648-4068
SITE ACQUISITION CONTACT: RAYMOND TAYLOR
 (720) 220-8954
CONSTRUCTION MANAGER: DEREK BONK
 (775) 750-5818
BUILDING CODE: 1. INTERNATIONAL BUILDING CODE (2018 IBC)
 2. 11A-EA-222-C OR LATEST EDITION
 3. 2017 NFPA 780 - LIGHTNING PROTECTION CODE
 4. ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES, MOST RECENT EDITIONS
 5. CO BUILDING CODE
 6. LOCAL BUILDING CODE
 7. CITY/COUNTY ORDINANCES
ELECTRIC CODE: 2017 NATIONAL ELECTRIC CODE OR LATEST EDITION

PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
 JOB NUMBER: 674-003

PROJECT MANAGER:

 10590 W. OCEAN AIR DRIVE, SUITE 300
 SAN DIEGO, CA 92130

ENGINEERING LICENSE:

DRAWING NOTICE:
 THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF AT&T AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF AT&T.

REVISIONS:	DESCRIPTION	DATE	BY	REV
REVISED PER JK		06/12/20	CAP	1
ISSUED FOR CONSTRUCTION		04/03/20	CAP	0
REVISED/ISSUED FOR REVIEW		02/23/20	CAP	0
REVISED/ISSUED FOR REVIEW		11/27/19	CAP	C
REVISED/ISSUED FOR REVIEW		11/26/19	CAP	B
ISSUED FOR REVIEW		10/18/19	CAP	A

AT&T SITE NAME:
SCHREIVER AFB

AT&T SITE NUMBER:
COL02065

AT&T FA NUMBER:
10099187

SITE ADDRESS:
**15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930**

SHEET DESCRIPTION:
**TITLE SHEET
 PCD #PPR2019**

SHEET NUMBER:
T-1

DRIVING DIRECTIONS

FROM:
 158 INVERNESS DRIVE WEST
 ENGLEWOOD, CO 80122

- DEPART SOUTHEAST ON INVERNESS DR W
- TURN LEFT ONTO INVERNESS PKWY
- TURN LEFT ONTO S JAMAICA ST
- TAKE RAMP LEFT AND FOLLOW SIGNS FOR E-470TOLLWAYNORTH
- ROAD RESTRICTED AT YOUR PLANNED TRAVEL TIME
- AT EXIT 5, TAKE RAMP RIGHT AND FOLLOW SIGNS FOR CO-83 SOUTH
- PASS CONOCO/7-ELEVEN
- ROAD RESTRICTED AT YOUR PLANNED TRAVEL TIME
- TURN LEFT ONTO CO-86 / E HIGHWAY 86
- PASS SHELL ON THE LEFT IN 8.4 MI
- TURN RIGHT ONTO COUNTY ROAD 17
- KEEP STRAIGHT ONTO COUNTY ROAD 17-21
- ROAD NAME CHANGES TO COUNTY ROAD 21
- TURN LEFT ONTO COUNTY ROAD 106
- TURN RIGHT ONTO N ELBERT RD
- ROAD NAME CHANGES TO CO-217 / ELBERT RD
- TURN RIGHT ONTO US-24 / E US HIGHWAY 24
- TURN LEFT ONTO STAPLETON DR
- TURN LEFT ONTO CO-94
- ARRIVE AT 15640 HIGHWAY 94

DO NOT SCALE DRAWINGS

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

VICINITY MAP



AT&T SITE NAME
SCHREIVER AFB
 AT&T SITE NUMBER

COL02065

AT&T PACE ID

MRUTH035610

MRUTH035586

AT&T FA NUMBER

10099187

SITE ADDRESS

15640 HIGHWAY 94

COLORADO SPRINGS, CO 80930

STRUCTURE TYPE

MONOPOLE

SITE PHOTO



PROJECT DESCRIPTION

AT&T PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATION FACILITY BASED ON RFDs 3130541 REV 2.00:

- REMOVE & REPLACE (6) PANEL ANTENNAS
- REMOVE AND REPLACE (3) RRHS
- INSTALL (3) NEW RRHS
- INSTALL (1) NEW RRH COLLAR MOUNT
- INSTALL (1) NEW NOKIA 5G NR (ASIK C-1) FSM4 BBU [CEQ.20975]
- INSTALL (4) EA. NEW RECTIFIERS [NEQ.15930] FOR REVISED TOTAL OF (13) TO SATISFY N+1.
- REMOVE (1) 9412 eNodeB CABINET
- INSTALL (1) EA. NEW -48VDC PURCELL FLX21-2520 CABINET [CEQ.18306] & TRANSFER ALL COMPONENTS FROM 9412 CABINET.
- REMOVE (24) EXISTING GNB M12V155FT BATTERIES FROM SITE
- INSTALL (24) NEW GNB S12V170 BATTERIES FOR 6 STRINGS OF 170AH FOR A TOTAL OF 4.13 HOURS
- INSTALL (2) 50A BREAKERS FOR FSM4, (3) 50A BREAKERS FOR THE ALHBA & (3) 25A BREAKERS FOR THE AHCA
- INSTALL (1) VERITY POWER REGULATOR
- REMOVE EXISTING COMPOUND CHAIN LINK FENCE AND GATES
- INSTALL NEW COMPOUND WOODEN FENCE WITH GATES

PROJECT TEAM

mdj **INFINIGY ENGINEERING, PLLC**
 10590 W. OCEAN AIR DRIVE, SUITE 300 SAN DIEGO, CA 92130 2500 W. HIGGINS RD, SUITE 500 HOFFMAN ESTATES, IL 60169 OFFICE # (847) 648-4068
 PROJECT MANAGER ENGINEER

PROJECT NOTES

- NOTES:
- HANDICAP ACCESS REQUIREMENTS ARE NOT REQUIRED.
 - FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
 - FACILITY HAS NO PLUMBING OR REFRIGERANTS.
 - THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS.

MOUNT ANALYSIS BY:
 VENDOR: INFINIGY
 DATE: 11-06-2019

STRUCTURAL ANALYSIS BY:
 VENDOR: SBA
 DATE: 02-27-2020



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GENERAL CONSTRUCTION NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR
SUBCONTRACTOR - CONTRACTOR (CONSTRUCTION)
OWNER - AT&T
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
- GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL 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 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.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT CONDITIONS AND/OR REQUIREMENTS. ALL SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE SPACE FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
- WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B-C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, D) TRENCHING & EXCAVATION.

- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE ARCHITECT/ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNER'S 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. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE IS TO BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
- NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION OF AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING" IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- NO WHITE STROBE LIGHTS ARE PERMITTED. ANY REQUIRED LIGHTING MUST MEET FAA STANDARDS AND REQUIREMENTS.
- ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- NO SIGNIFICANT NOISE, SMOKE, DUST OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DISREGARD THIS NOTE IF THIS SITE HAS A GENERATOR)
- NO ADDITIONAL PARKING TO BE PROPOSED. EXISTING ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
- NO LANDSCAPING IS PROPOSED AT THIS SITE, UNLESS NOTED OTHERWISE.

ELECTRICAL NOTES:

- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY "CONSTRUCTION MANAGER" AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE "CONSTRUCTION MANAGER" HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT LIMITED TO:
C - NATIONAL FIRE CODES
A. UL - UNDERWRITERS LABORATORIES
E. NEC - NATIONAL ELECTRICAL CODE
C. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
E. SBC - STANDARD BUILDING CODE

- DO NOT SCALE ELECTRICAL DRAWINGS: REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH CONSTRUCTION MANAGER ANY SIZES AND LOCATIONS WHEN NEEDED.
- EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS, AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
- CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS, SUCH AS THE LOG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC.. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THIN INSULATION.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDING, AS REQUIRED BY SPECIFICATIONS, SET FORTY BY AT&T.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION & APPROVAL BY CONSTRUCTION MANAGER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
- ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND DEVICES FOR ALL OUTLETS AS INDICATED.
- DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION, BACKFILLING AND COMPACTION. REFER TO FOUNDATION, EXCAVATION, AND BACKFILLING NOTES.
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA, AND ETC.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURERS CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES, AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE "CONSTRUCTION MANAGER" UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY, HEAVY-DUTY, QUICK-MADE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
- RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA T22 - 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 90 DEGREE. RIGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIG CONDUIT. COAT ALL THREADS WITH "BRITE ZINC" OR "GOLD CALV".
- CONDUCTORS OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- CONDUCTORS FOR WIRE ABOVE NO. 8 AWG. USE 98% CONDUCTIVITY COPPER WITH TYPE THIN INSULATION, 800 VOLT, COIL CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE GROUNDING CONDUCTORS FOR WIRE ABOVE NO. 8 AWG. USE CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TIGHT INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AND LARGER.
- SERVICES: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.

- TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
- CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTION TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM."
- ALL BOLTS SHALL BE STAINLESS STEEL.

GROUNDING NOTES:

- COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "T") WITH "1" LETTERS.
- ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" INCH DIAMETER OR LARGER.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM PLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE.
- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER. ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
- WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
- ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

FOUNDATION, EXCAVATION, & BACKFILL NOTES:

- ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL.
- ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL, AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
- CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL. IF INADEQUATE BEARING CAPACITY IS REACHED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
- ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL, SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SLASH, FREE FROM CLODS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS. ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.
- NEWLY PLACED CONCRETE FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM 6" THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557.
- NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HOURS PRIOR TO BACK FILLING.
- FINISHED GRADES SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PADS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE ELEVATIONS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
- NEWLY GRADED SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE: TYPAR-3401 AS MANUFACTURED BY "CONSTRUCTION MATERIALS-1-800-235-8417" OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENT OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERIMETER WHICHEVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED. I.E. FDOT TYPE NO.57 FOR FENCED COMPOUND; FDOT TYPE NO. 67 FOR ACCESS DRIVE AREA.
- IN ALL AREAS TO RECEIVE FILL, REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE. FLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BOND WITH EXISTING/PREPARED SOIL SURFACE.

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REVISED/ISSUED FOR REVIEW		11/27/19	CAP	0
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SHEET DESCRIPTION:
GENERAL NOTES

SHEET NUMBER:
GN-1

- WHEN SUBGRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR AERATE THE SOILS AND RE-COMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.
- IN AREAS WHICH EXISTING GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO SAME THICKNESS AND COMPACTION AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.
- EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED WITH THE CONDITION THAT ANY UNFAVORABLE AMOUNTS OF ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ANY ADDITIONAL GRAVEL RESURFACING MATERIAL AS NEEDED TO PROVIDE A FULL DEPTH COMPACTED SURFACE THROUGHOUT SITE.
- GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUBGRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE.
- PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING "MATS" OR OTHER SUITABLE PROTECTION DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUB GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS.
- DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACTOR. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISTROPHED OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACTOR.

ENVIRONMENTAL NOTES:

- ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
- CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
- CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
- NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
- CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
- SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
- CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PREVENT EROSIONS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
- RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRAGILE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES.

CONCRETE MASONRY NOTES:

- CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (F_m=1,500 PSI), MEDIUM WEIGHT (115).
- MORTAR SHALL BE TYPE "S" (MINIMUM 1,800 PSI AT 28 DAYS).
- GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.
- ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE SOLID GROUTED.
- ALL HORIZONTAL REINFORCING STEEL SHALL BE PLACED IN BOND BEAM OR UNTEL BEAM UNITS.
- WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
- ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
- PROVIDE INSPECTION AND CLEAN-OUT HOLES IN CASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
- ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR. CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.
- REINFORCING BARS - SEE NOTES UNDER "REINFORCING STEEL" FOR REQUIREMENTS.

- PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
- LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
- LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND SECTION 2104.6.1 OF CURRENT BUILDING CODE.
- ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
- CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
- REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.
- SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKAU OR ORGANIC MATERIAL.
- BRICK SHALL CONFORM TO ASTM C-62 AND SHALL BE GRADE MW OR BETTER.

STRUCTURAL CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI-301-10
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH 1c-2,500 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH	3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 AND LARGER	2 IN.
#4 AND SMALLER & WWF	1-1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER, NOR CAST AGAINST THE GROUND:	
SLAB AND WALL	3/4 IN.
BEAMS AND COLUMNS	1-1/2 IN.
- A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE U.N.O. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLD, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
- USE AND INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER ISBO & MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. STEEL SECTIONS SHALL BE IN ACCORDANCE WITH ASTM AS INDICATED BELOW:
 - W-SHAPES: ASTM A992, 50 KSI
 - ANGLES, BARS CHANNELS: ASTM A36, 36 KSI
 - HSS SECTIONS: ASTM 500, 46 KSI
 - PIPE SECTIONS: ASTM A53- E, 35 KSI
- ALL EXTERIOR EXPOSED STEEL AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION." PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE 3/4" Ø CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" Ø ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
- FIELD MODIFICATIONS ARE TO BE COATED WITH ZINC ENRICHED PAINT.

SITE UTILS & DRAINAGE:

- PART 1 - GENERAL**
- CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

- REFERENCES:
 - DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR WAY CONSTRUCTION - LATEST EDITION)
 - ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
 - OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION)
- INSPECTION AND TESTING:
 - FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS
 - ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.3 SITE MAINTENANCE AND PROTECTION:

- PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
- AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- KEEP SITE FREE OF OBSTRUCTIONS AND DEBRIS.
- PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.
- PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER, AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

PART 2 - PRODUCTS

- SUITABLE BACKFILL: ASTM D2321 (CLASS I, II, III, OR IVA) FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- NON-POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS III, IVA OR IVB) COARSE AGGREGATE, FREE FROM FROZEN LUMPS, REFUSE, STONES, OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS IA, IB, OR II) COARSE AGGREGATE FREE FROM FROZEN LUMPS, REFUSE, STONES, OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- SELECT STRUCTURAL FILL: GRANULAR FILL MATERIAL MEETING THE REQUIREMENTS OF ASTM F850-95. FOR USE AROUND AND UNDER STRUCTURES WHERE STRUCTURAL FILL MATERIAL ARE REQUIRED.
- GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).
- COARSE AGGREGATE FOR ACCESS ROAD SUB BASE COURSE SHALL CONFORM TO ASTM D2940.
- UNSATURABLE MATERIAL: AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.
- GEOTEXTILE FABRIC: MIRA1 5000 OR APPROVED EQUAL.
- PLASTIC MARKING TAPE: SHALL BE BLACK AND ALKALI RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES, 6 INCHES WIDE WITH A MINIMUM THICKNESS OF 0.004 INCH. TAPE SHALL HAVE MINIMUM STRENGTH OF 1500 PSI IN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL CONDUCTORS, FOL BACKING OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3 FEET DEEP. THE METALLIC CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR PROVIDED WITH OTHER MEANS TO PROTECT IT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION UTILITIES.

PART 2 - EXECUTION

- GENERAL:
 - BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH A CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ANY TIME.
 - BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
 - CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
 - REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
 - REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNSUITABLE MATERIALS.
 - EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING, AND DEMOLITION WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.
 - BURNING WILL NOT BE PERMITTED.

- PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER.

3.2 BACKFILL:

- AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
- WHenever the density testing indicates that the contractor has not obtained the specified density, the succeeding layer shall not be placed until the specification requirements are met unless otherwise authorized by the geotechnical engineer. The contractor shall take whatever appropriate action is necessary, such as disk and drying, adding water, or increasing the compactive effort to meet the minimum compaction requirements.
- THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

- UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, BACKFILL AT THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS.
- PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.5 FINISH GRADING:

- PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- ACHIEVE FINISHED GRADE BY PLACING A MINIMUM OF 4 INCHES OF 1/2" - 3/4" CRUSHED STONE ON TOP SOIL STABILIZER FABRIC.
- REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

PLANS PREPARED FOR:

PLANS PREPARED BY:

INFINIGY8
ENGINEERING, PLLC

2500 W. HIGGINS RD, SUITE 500
HOFFMAN ESTATES, IL 60169
Office # (847) 648-4068

JOB NUMBER: 674-003

PROJECT MANAGER:

mdj

10590 W. OCEAN AIR DRIVE, SUITE 300
SAN DIEGO, CA 92130

ENGINEERING LICENSE:



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REVISION/ISSUED FOR REVIEW		11/27/19	CAP	0
REVISION/ISSUED FOR REVIEW		11/26/19	CAP	0
ISSUED FOR REVIEW		10/18/19	CAP	A

AT&T SITE NAME:

SCHREIVER AFB

AT&T SITE NUMBER:

COL02065

AT&T FA NUMBER:

10099187

SITE ADDRESS:

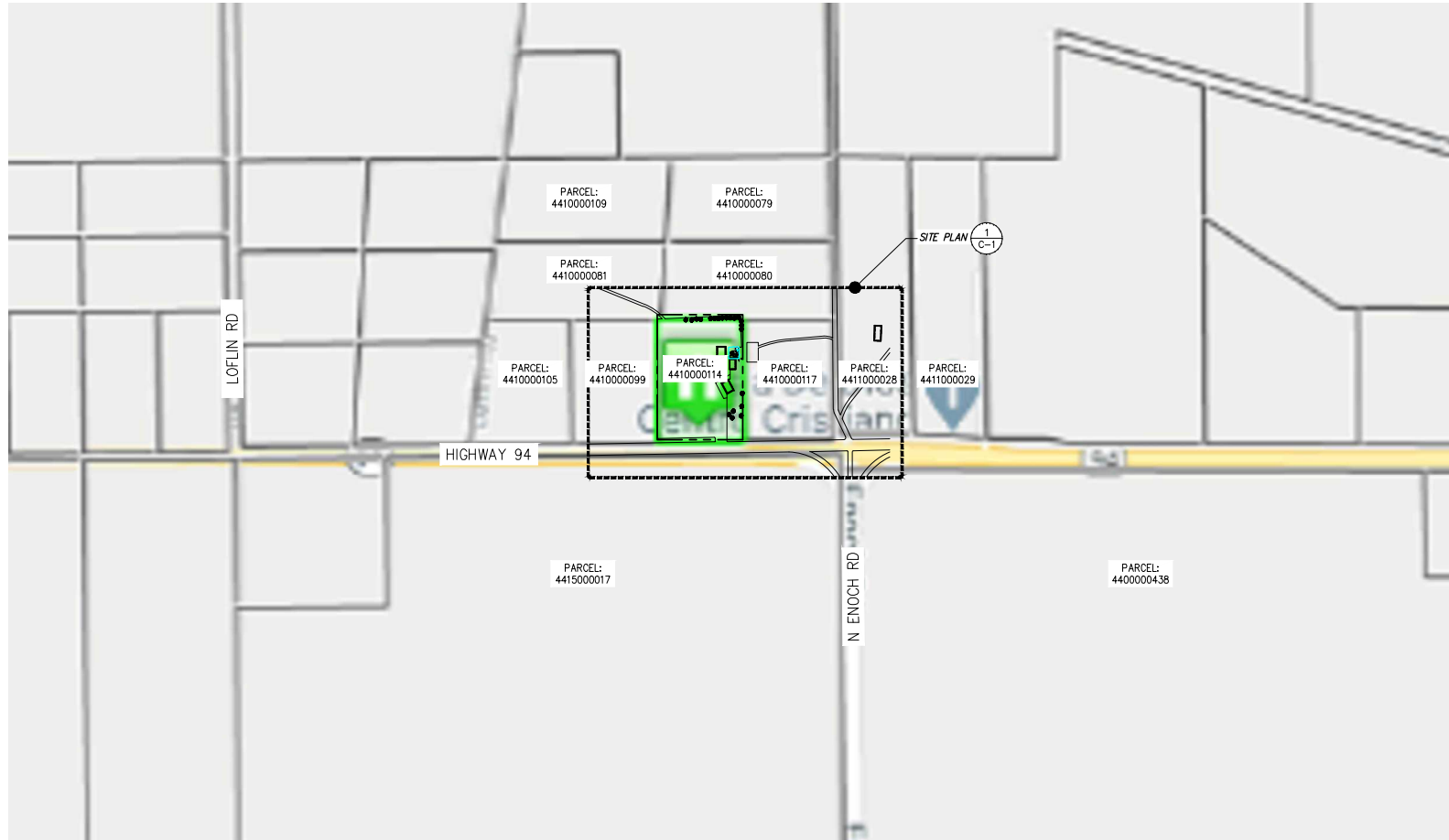
**15640 HIGHWAY 94
COLORADO SPRINGS, CO 80930**

SHEET DESCRIPTION:

GENERAL NOTES

SHEET NUMBER:

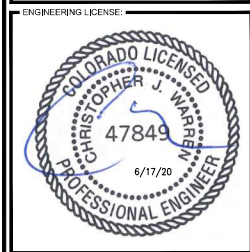
GN-2



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PLANS PREPARED BY:
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 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
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ISSUED FOR REVIEW	10/18/19	CAP	A

AT&T SITE NAME:
SCHREIVER AFB

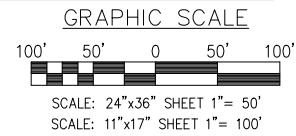
AT&T SITE NUMBER:
COL02065

AT&T FA NUMBER:
10099187

SITE ADDRESS:
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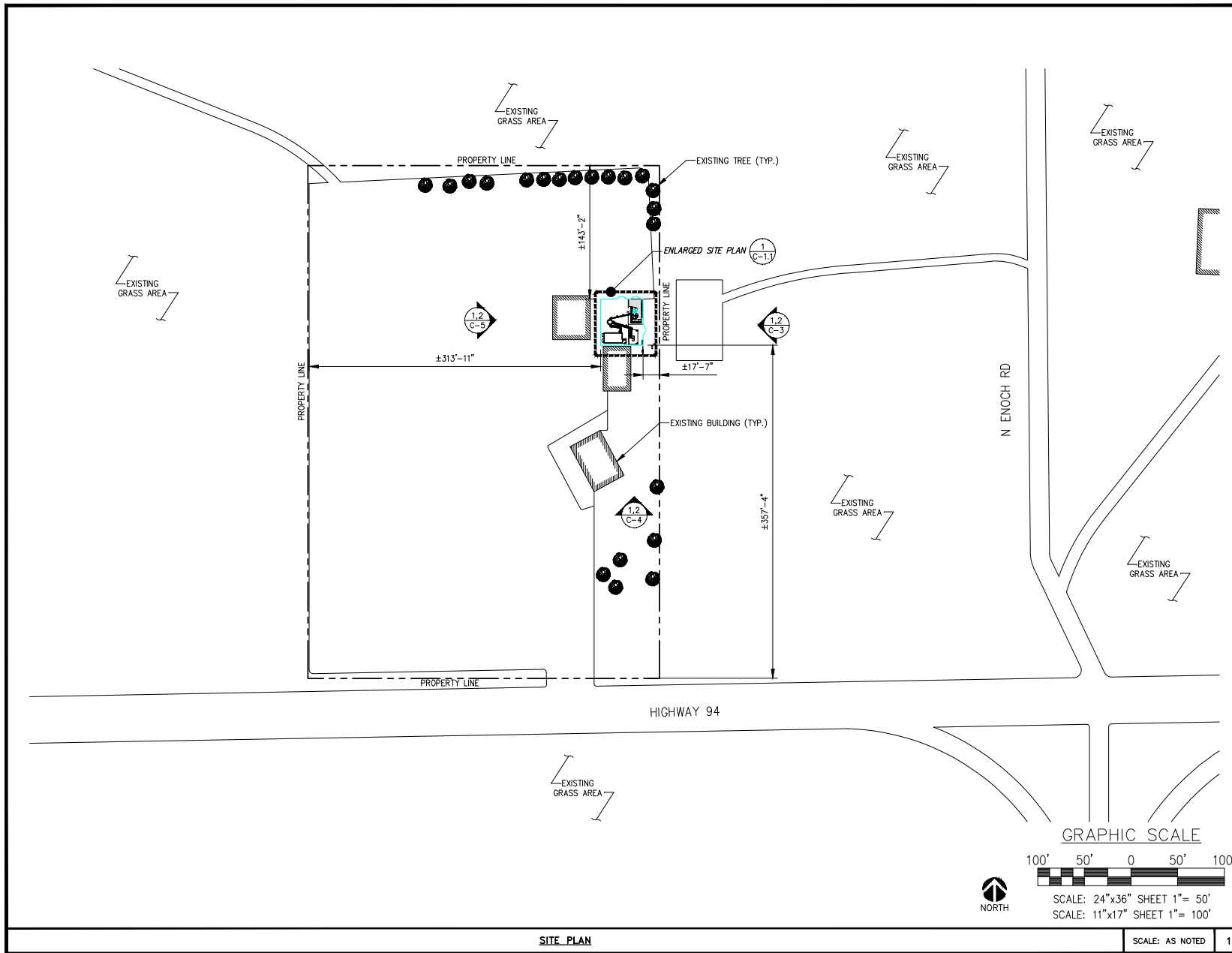
SHEET DESCRIPTION:
**PARCEL PLAN
 PCD #PPR2019**

SHEET NUMBER:
P-1



PARCEL PLAN

SCALE: AS NOTED 1



PLANS PREPARED FOR:

PLANS PREPARED BY:
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 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
 JOB NUMBER: 674-003

PROJECT MANAGER:
mdj
 10590 W. OCEAN AIR DRIVE, SUITE 300
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ISSUED FOR REVIEW	10/18/19	CAP	A

AT&T SITE NAME:
SCHREIVER AFB

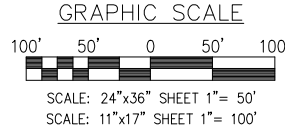
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COL02065

AT&T FA NUMBER:
10099187

SITE ADDRESS:
**15640 HIGHWAY 94
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SHEET DESCRIPTION:
**SITE PLAN
 PCD #PR2019**

SHEET NUMBER:
C-1



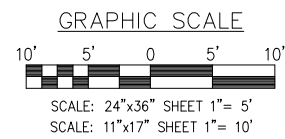
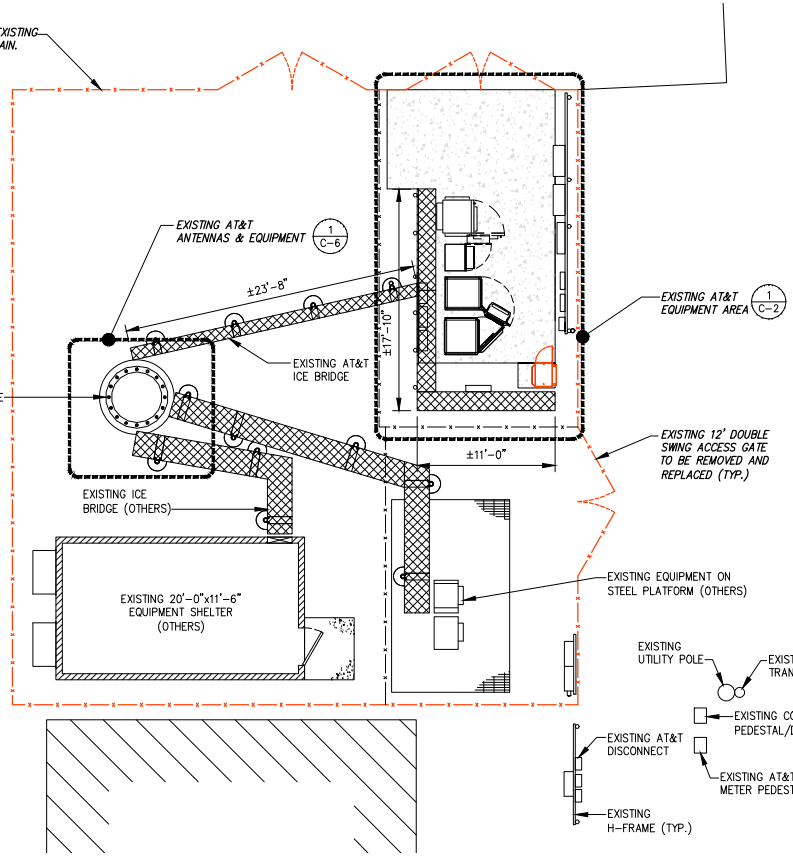
SITE PLAN

SCALE: AS NOTED 1

REMOVE ALL EXISTING
BARBED WIRE
REMOVE WIRE MESH. EXISTING
FENCE POSTS TO REMAIN.



EXISTING MONOPOLE



EXISTING ENLARGED SITE PLAN

SCALE: AS NOTED 1

PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY8
ENGINEERING, PLLC
2500 W. HIGGINS RD, SUITE 500
HOFFMAN ESTATES, IL 60169
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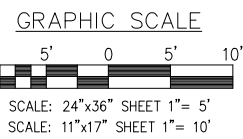
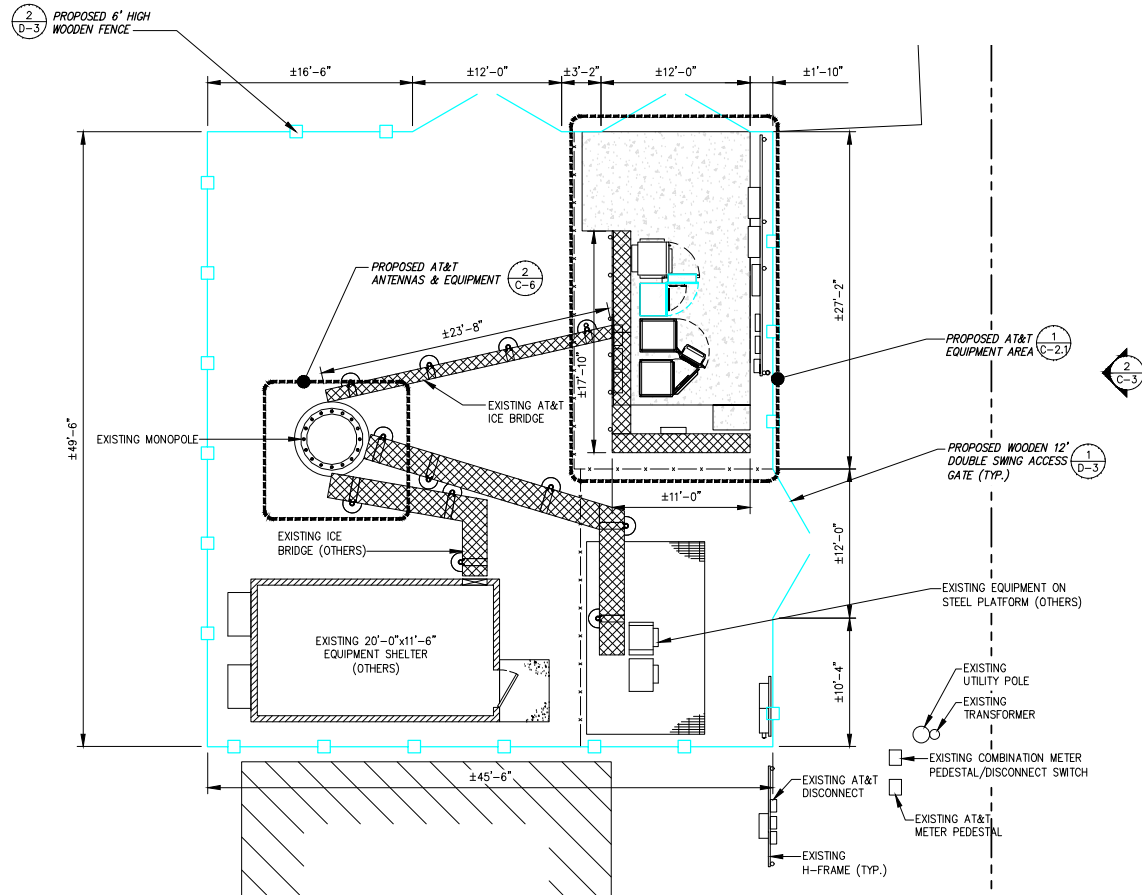
AT&T SITE NUMBER:
COL02065

AT&T FA NUMBER:
10099187

SITE ADDRESS:
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COLORADO SPRINGS, CO 80930**

SHEET DESCRIPTION:
**EXISTING ENLARGED
SITE PLAN**

SHEET NUMBER:
C-1.1



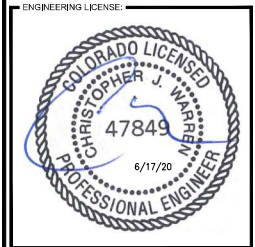
PROPOSED ENLARGED SITE PLAN

SCALE: AS NOTED 1

PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY8
 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
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AT&T SITE NUMBER:
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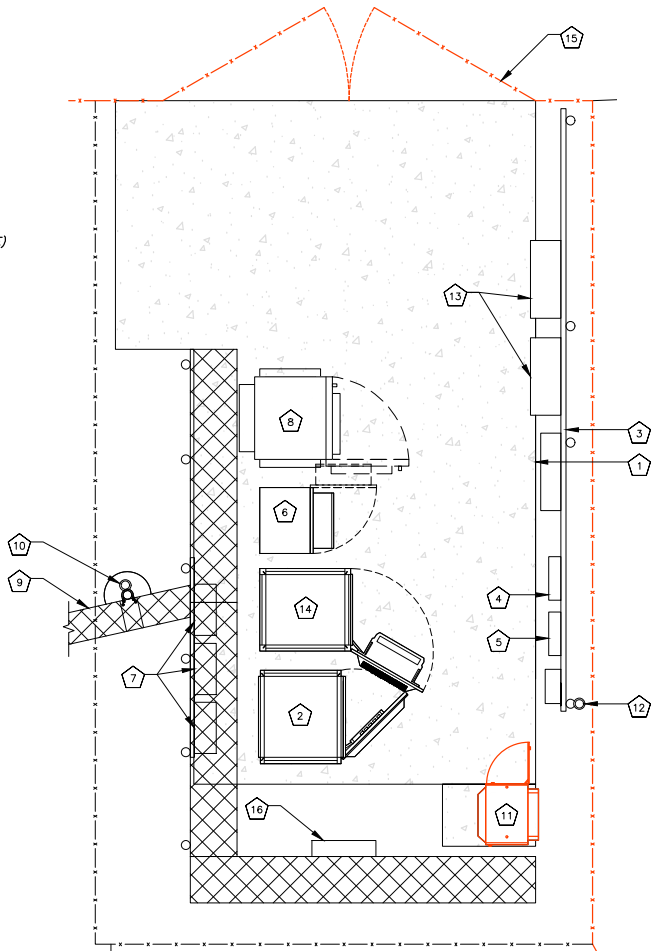
SITE ADDRESS:
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SHEET DESCRIPTION:
**PROPOSED ENLARGED
 SITE PLAN**

SHEET NUMBER:
C-1.2

CODED DRAWING NOTES:

- 1 EXISTING CONCRETE PAD
- 2 EXISTING EMERSON OUTDOOR POWER PLANT
(REMOVE (4) EXISTING M12V155FT BATTERIES FROM SITE)
- 3 EXISTING H-FRAME
- 4 EXISTING AC LOAD CENTER
- 5 EXISTING GENERATOR RECEPTACLE
- 6 EXISTING PURCELL EQUIPMENT CABINET
- 7 EXISTING DC12 SURGE SUPPRESSORS ON EXISTING H-FRAME
- 8 EXISTING OUTDOOR UMTS NODE B
- 9 EXISTING ICE BRIDGE
- 10 EXISTING GPS ANTENNA
- 11 EXISTING 9412 BBU CABINET TO BE REMOVED
- 12 EXISTING LTE GPS ANTENNA
- 13 EXISTING HOFFMAN BOX
- 14 EXISTING EMERSON BATTERY CABINET
(REMOVE (20) EXISTING GNB M12V155FT BATTERIES FROM SITE)
- 15 EXISTING DOUBLE SWING ACCESS GATE
- 16 EXISTING FIBER SLACK BOX



EXISTING EQUIPMENT LAYOUT

SCALE: AS NOTED 1

PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY8
 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
 JOB NUMBER: 674-003

PROJECT MANAGER:

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 SAN DIEGO, CA 92130

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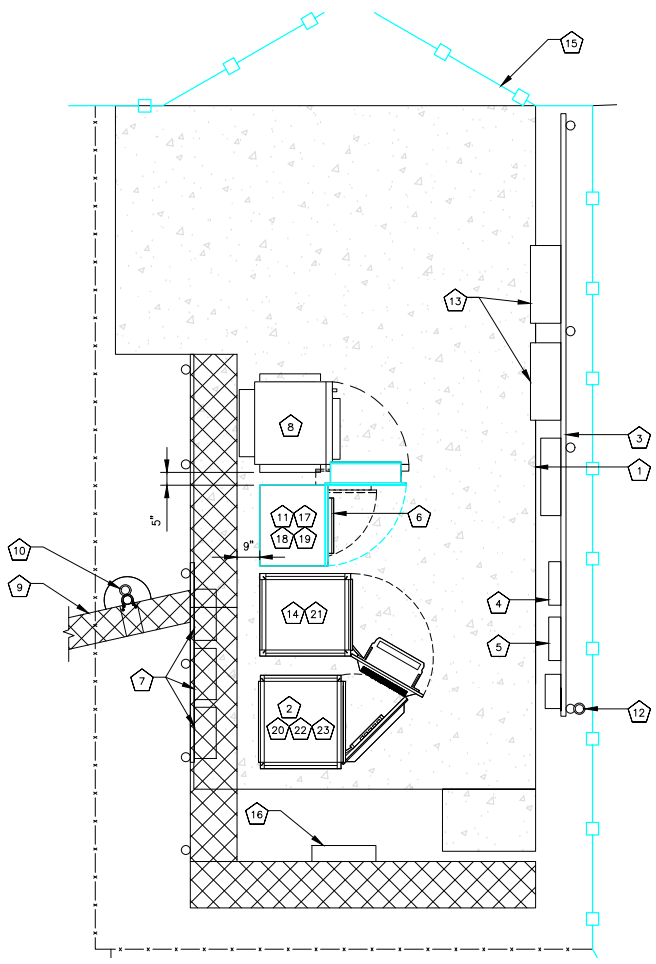
SITE ADDRESS:
 15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930

SHEET DESCRIPTION:
EXISTING EQUIPMENT LAYOUT

SHEET NUMBER:
C-2

CODED DRAWING NOTES:

- 1 EXISTING CONCRETE PAD
- 2 EXISTING EMERSON OUTDOOR POWER PLANT
- 3 EXISTING H-FRAME
- 4 EXISTING AC LOAD CENTER
- 5 EXISTING GENERATOR RECEPTACLE
- 6 EXISTING PURCELL EQUIPMENT CABINET (BELOW)
- 7 EXISTING DC12 SURGE SUPPRESSORS ON EXISTING H-FRAME
- 8 EXISTING OUTDOOR UMTS NODE B
- 9 EXISTING ICE BRIDGE
- 10 EXISTING GPS ANTENNA
- 11 PROPOSED PURCELL FLX21-2520 CABINET MOUNTED ON TOP OF EXISTING PURCELL CABINET
- 12 EXISTING LTE GPS ANTENNA
- 13 EXISTING HOFFMAN BOX
- 14 EXISTING EMERSON BATTERY CABINET
- 15 EXISTING DOUBLE SWING ACCESS GATE
- 16 EXISTING FIBER SLACK BOX
- 17 INSTALL (1) NEW NOKIA 5GNR (ASIK C-1) FSM4 BBU [CEQ.20975]
- 18 INSTALL (4) EA. NEW RECTIFIERS [NEQ.15930] FOR REVISED TOTAL OF (13) TO SATISFY N+1.
- 19 TRANSFER EXISTING COMPONENTS FROM EXISTING 9412 CABINET TO NEW PURCELL CABINET
- 20 INSTALL (2) 50A BREAKERS FOR FSM4, (3) 50A BREAKERS FOR AHLBA & (3) 25A BREAKERS FOR AHCA
- 21 INSTALL (20) NEW GNB S12V170 BATTERIES
- 22 INSTALL (4) NEW GNB S12V170 BATTERIES
- 23 INSTALL (1) NEW VERTIV POWER REGULATOR



Summary:

DC POWER PLANT, RECTIFIERS & CONVERTERS:

1. **FAILS RECTIFIER CAPACITY;** EXISTING EMERSON O.D. NETSURE 512 -48V DCPP [NEQ.19341] IS EQUIPPED WITH (9) EA. 2 KW HE -48VDC RECTIFIERS. **INSTALL (4) EA. NEW RECTIFIERS [NEQ.15930] FOR A REVISED TOTAL OF (13) TO SATISFY N+1.**
2. **PASSES CONVERTER CAPACITY;** EXISTING EMERSON 512 -48V DCPP IS EQUIPPED WITH (5) EA. HE 1.5 KW -48VDC/+24VDC CONVERTER MODULES [NEQ.15929]. **ONLY (4) REQUIRED FOR N+1.**

GENERATOR:

1. **NO PERMANENT STANDBY GENERATOR**

BATTERIES:

1. **FAILS BATTERY RESERVE CAPACITY @ 3.49 HRS;** EXISTING EMERSON 512 -48V DCPP [NEQ.19341] AND -48VDC NETEXTEND FLEX BATTERY CABINET [NEQ.15918]. **Remove the 155ah Batteries. INSTALL (6) NEW 170ah BATTERIES TO HAVE A COLLECTIVE TOTAL OF (24) GNB GNB MARATHON S12V170 BATTERIES i.e. (6) 170 Ahr STRINGS EACH CONFIGURED @ -48VDC NOMINAL FOR 4.13 hrs of backup**

HVAC:

1. **HVAC TONNAGE CAPACITY N/A; OUTDOOR CABINETS.**

ELECTRICAL SERVICE:

1. **PASSES 120/240VAC 200A (48KW) ELECTRICAL SERVICE;** MAXIMUM TOTAL CONNECTED LOAD ESTIMATED @ **29.92 KVA** [125A per phase].

REQUIRED ADDITIONAL EQUIPMENT:

- Flex 21 Purcell required. (1) Vertiv Power Regulator
1. **NOKIA 5GNR (ASIK C-1) FSM4 BBU [CEQ.20975].**
 2. **Breakers needed for:**
 - o 5GNR Asik C1 - (2) 50 Amp Breakers
 - o AHLBA RRH - (3) 50 Amp Breakers
 - o AHCA RRH - (3) 25 Amp Breakers

PLANS PREPARED FOR:

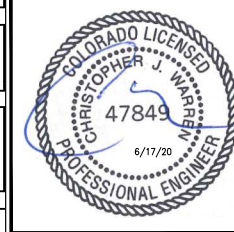
PLANS PREPARED BY:

INFINIGY8
ENGINEERING, PLLC
2500 W. HIGGINS RD, SUITE 500
HOFFMAN ESTATES, IL 60169
Office # (847) 648-4068
JOB NUMBER: 674-003

PROJECT MANAGER:

mdj
10590 W. OCEAN AIR DRIVE, SUITE 300
SAN DIEGO, CA 92130

ENGINEERING LICENSE:



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REVISED/ISSUED FOR REVIEW		11/26/19	CAP	B
ISSUED FOR REVIEW		10/18/19	CAP	A

AT&T SITE NAME:

SCHREIVER AFB

AT&T SITE NUMBER:

COL02065

AT&T FA NUMBER:

10099187

SITE ADDRESS:

15640 HIGHWAY 94
COLORADO SPRINGS, CO 80930

SHEET DESCRIPTION:

PROPOSED EQUIPMENT LAYOUT

SHEET NUMBER:

C-2.1

GRAPHIC SCALE



SCALE: 24"x36" SHEET 1"= 2'
SCALE: 12"x18" SHEET 1"= 4'



PROPOSED EQUIPMENT LAYOUT

SCALE: AS NOTED 1



DIPLEXER

NO SCALE

1



BATTERY CABINET

NO SCALE

2



HOFFMAN_BOX

NO SCALE

3



UMTS CABINET

NO SCALE

5



DC_POWER_PLANT

NO SCALE

6

9412_BBU_CABINET

NO SCALE

4

PLANS PREPARED FOR:

PLANS PREPARED BY:
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 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
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ISSUED FOR REVIEW		10/18/19	CAP	A

AT&T SITE NAME:
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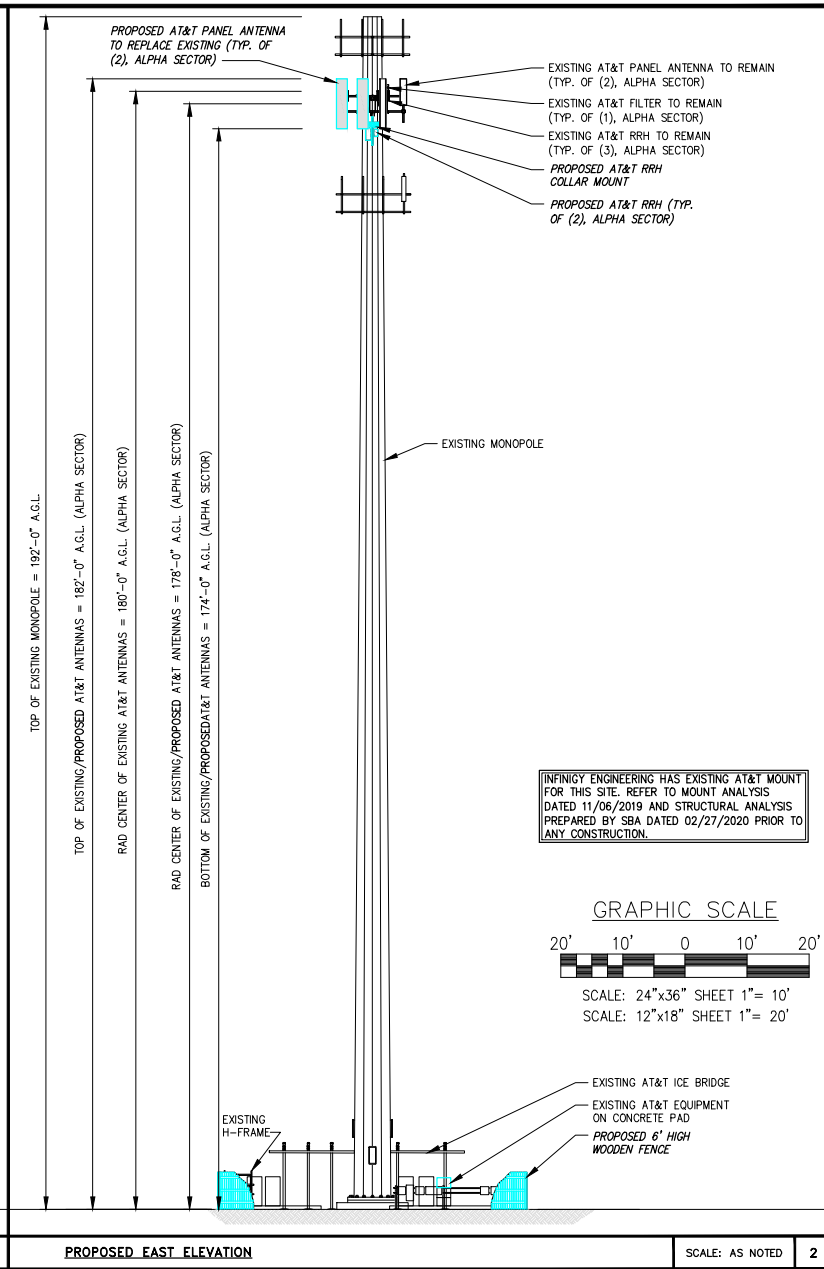
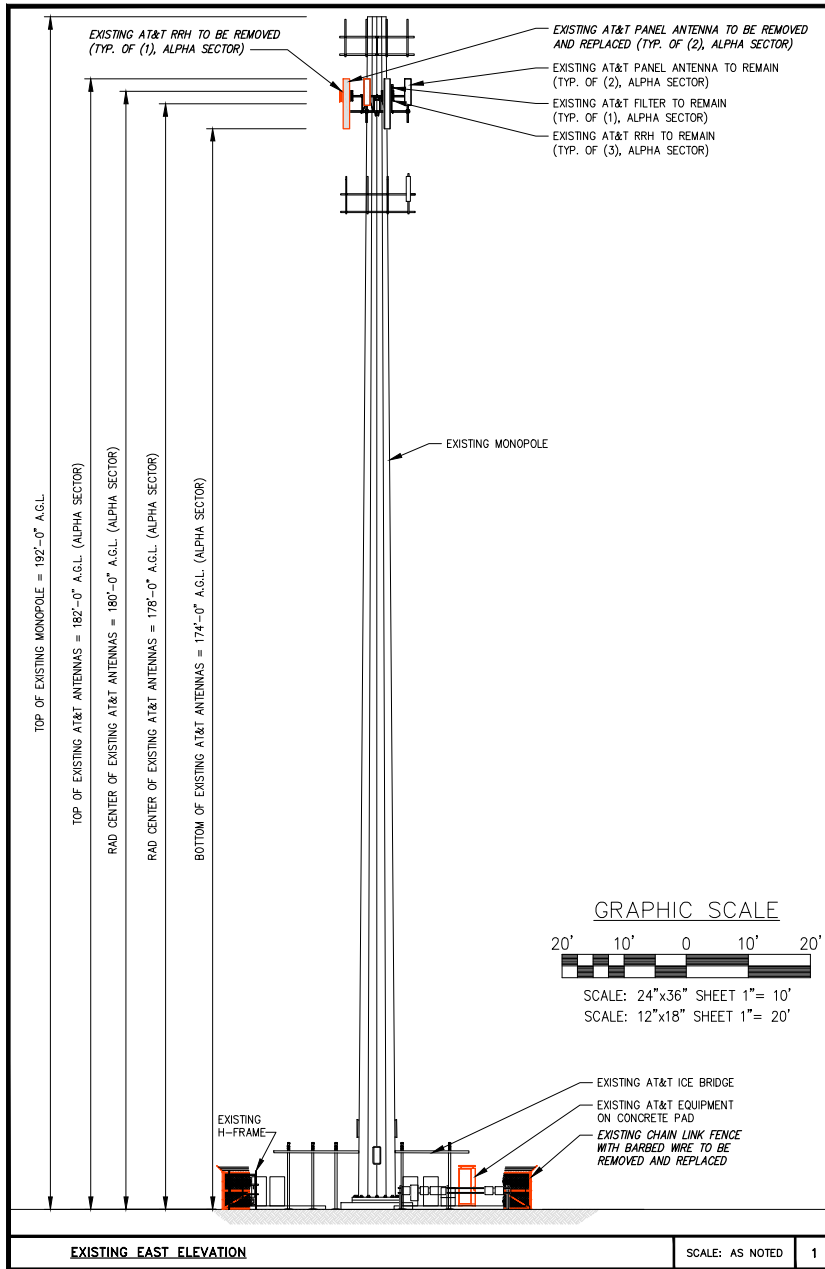
AT&T SITE NUMBER:
COL02065

AT&T FA NUMBER:
10099187

SITE ADDRESS:
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SHEET DESCRIPTION:
EQUIPMENT PHOTOS

SHEET NUMBER:
C-2.2



INFINIGY ENGINEERING HAS EXISTING AT&T MOUNT FOR THIS SITE. REFER TO MOUNT ANALYSIS DATED 11/06/2019 AND STRUCTURAL ANALYSIS PREPARED BY SBA DATED 02/27/2020 PRIOR TO ANY CONSTRUCTION.

PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
 JOB NUMBER: 674-003

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 SAN DIEGO, CA 92130



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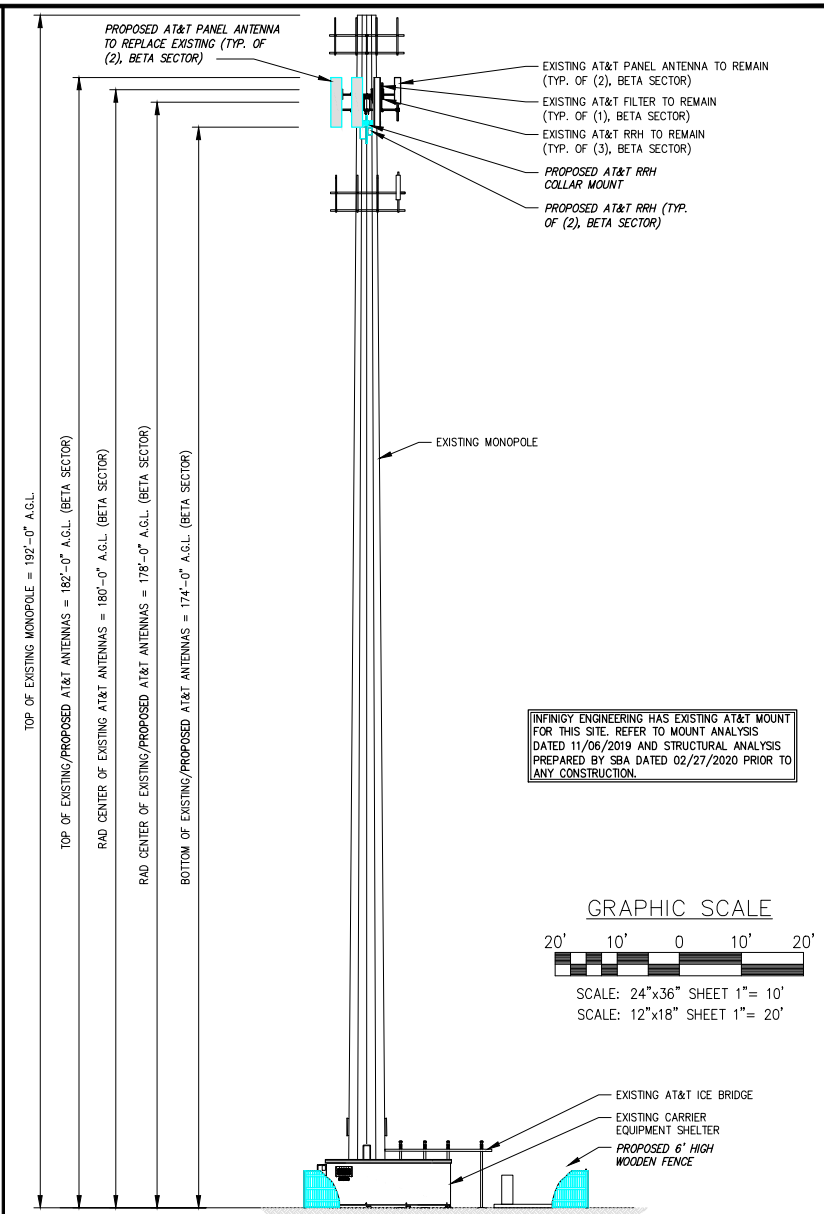
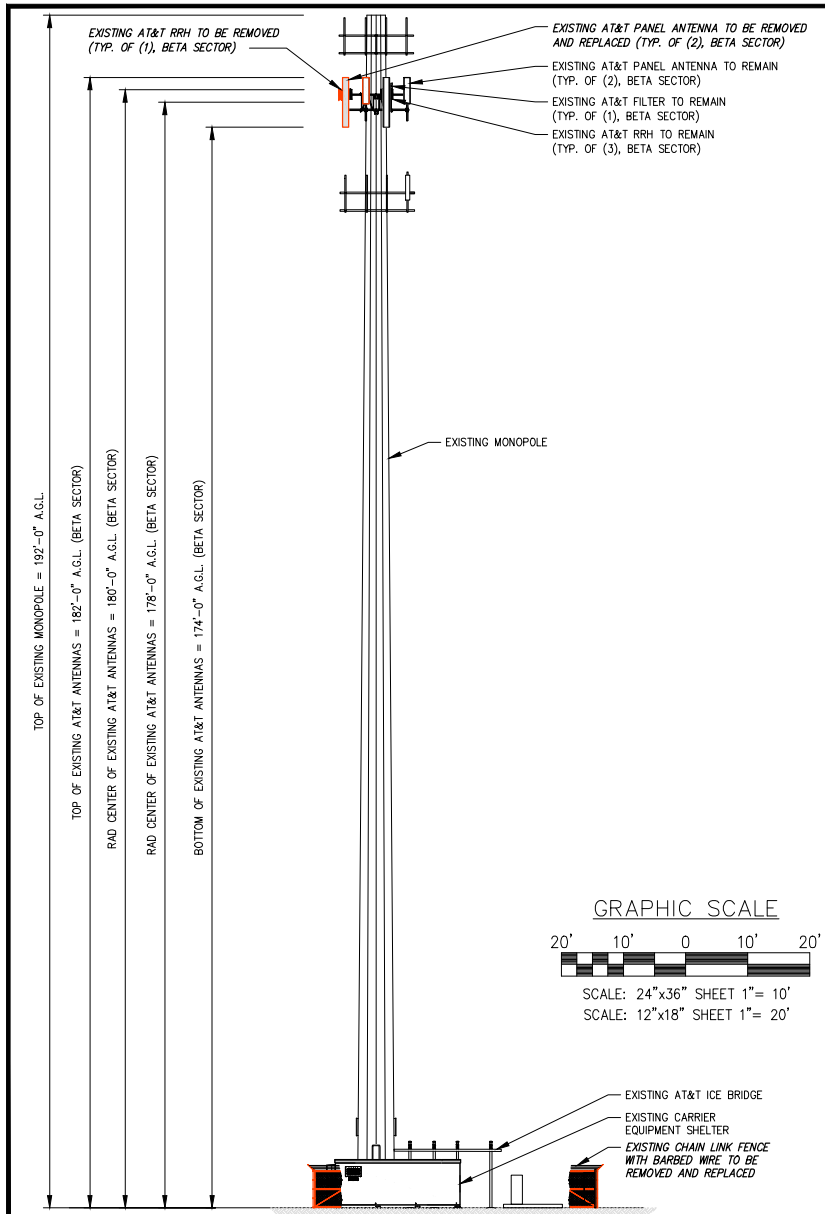
SITE ADDRESS:
**15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930**

SHEET DESCRIPTION:
**EAST
 ELEVATION
 POD #PPR2019**

SHEET NUMBER:
C-3

EXISTING EAST ELEVATION SCALE: AS NOTED 1

PROPOSED EAST ELEVATION SCALE: AS NOTED 2



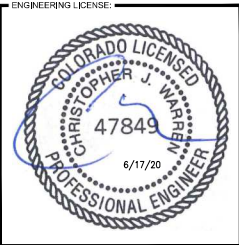
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PLANS PREPARED FOR:

PLANS PREPARED BY:
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 HOFFMAN ESTATES, IL 60169
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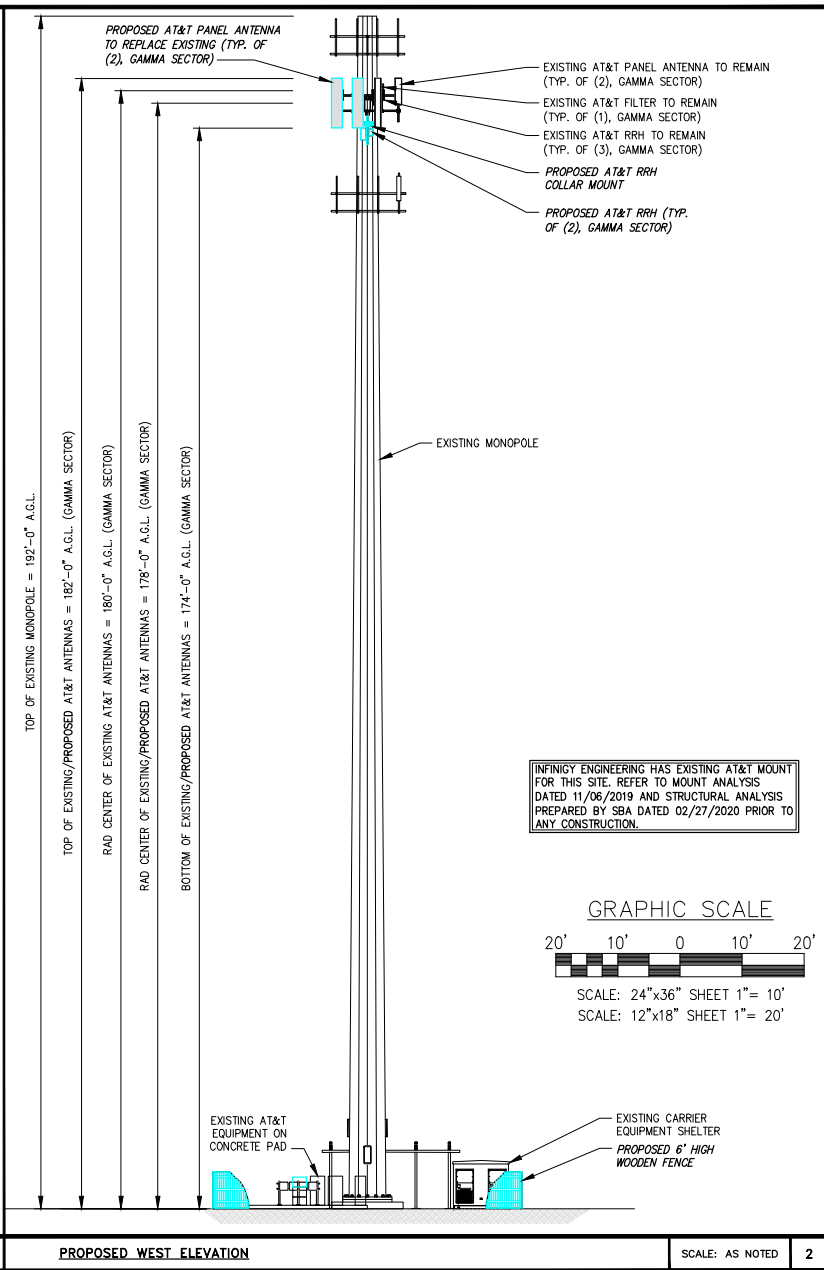
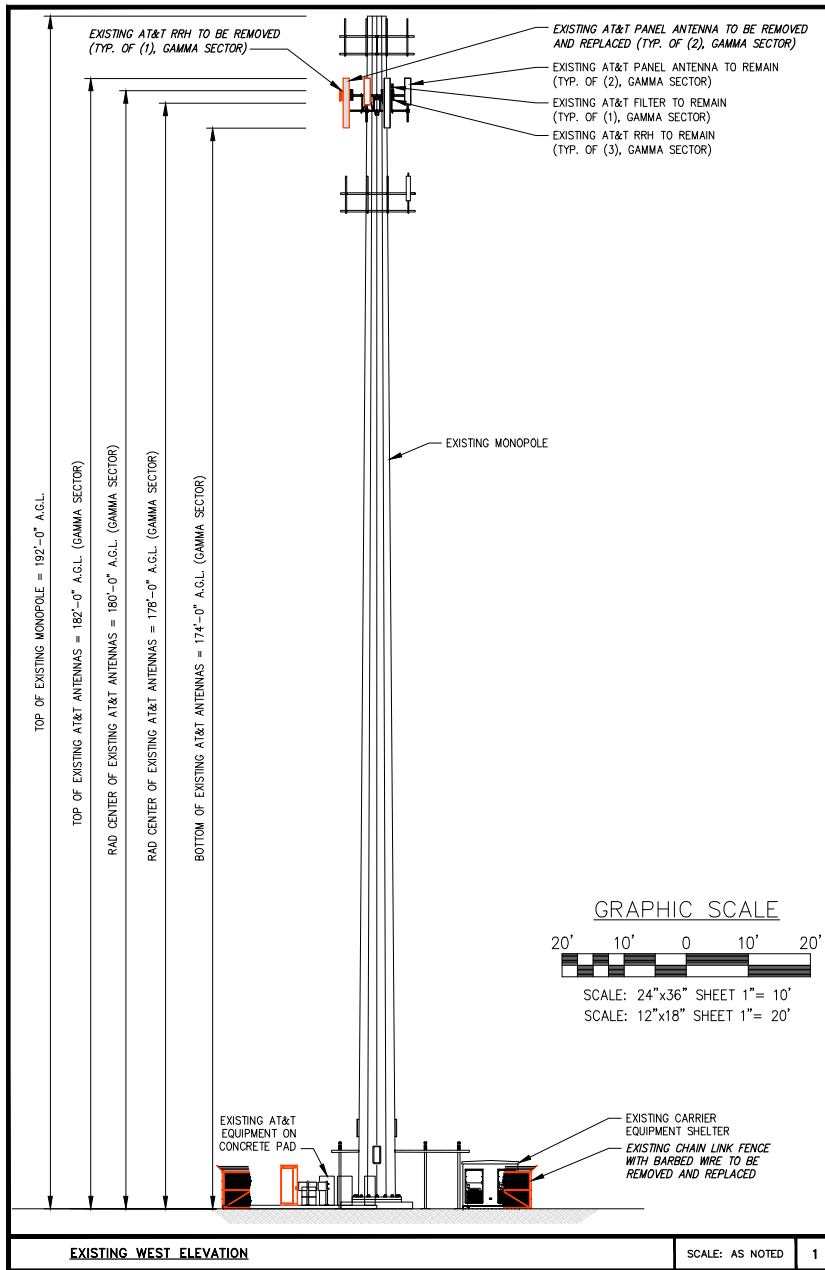
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SHEET DESCRIPTION:
**SOUTH ELEVATION
 POD #PPR2019**

SHEET NUMBER:
C-4

EXISTING SOUTH ELEVATION SCALE: AS NOTED 1

PROPOSED SOUTH ELEVATION SCALE: AS NOTED 2

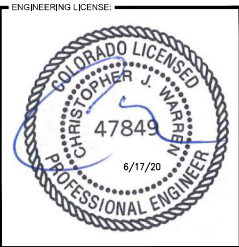


INFINIGY ENGINEERING HAS EXISTING AT&T MOUNT FOR THIS SITE. REFER TO MOUNT ANALYSIS DATED 11/06/2019 AND STRUCTURAL ANALYSIS PREPARED BY SBA DATED 02/27/2020 PRIOR TO ANY CONSTRUCTION.

PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY
 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
 JOB NUMBER: 674-003

PROJECT MANAGER:
mdj
 10590 W. OCEAN AIR DRIVE, SUITE 300
 SAN DIEGO, CA 92130



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ISSUED FOR CONSTRUCTION		04/03/20	CAP	0
REVISED/ISSUED FOR REVIEW		02/27/20	CAP	0
REVISED/ISSUED FOR REVIEW		11/27/19	CAP	C
REVISED/ISSUED FOR REVIEW		11/26/19	CAP	B
ISSUED FOR REVIEW		10/16/19	CAP	A

AT&T SITE NAME:
 SCHREIVIER AFB

AT&T SITE NUMBER:
 COL02065

AT&T FA NUMBER:
 10099187

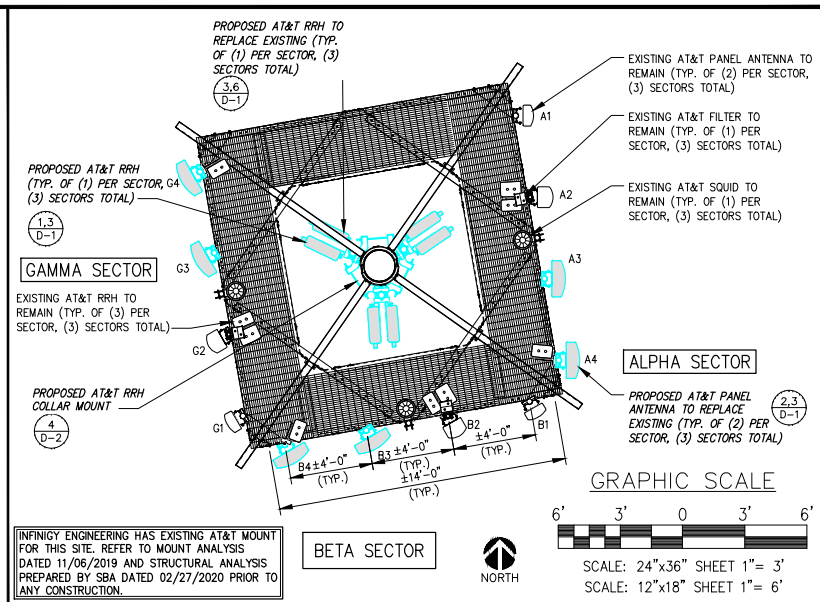
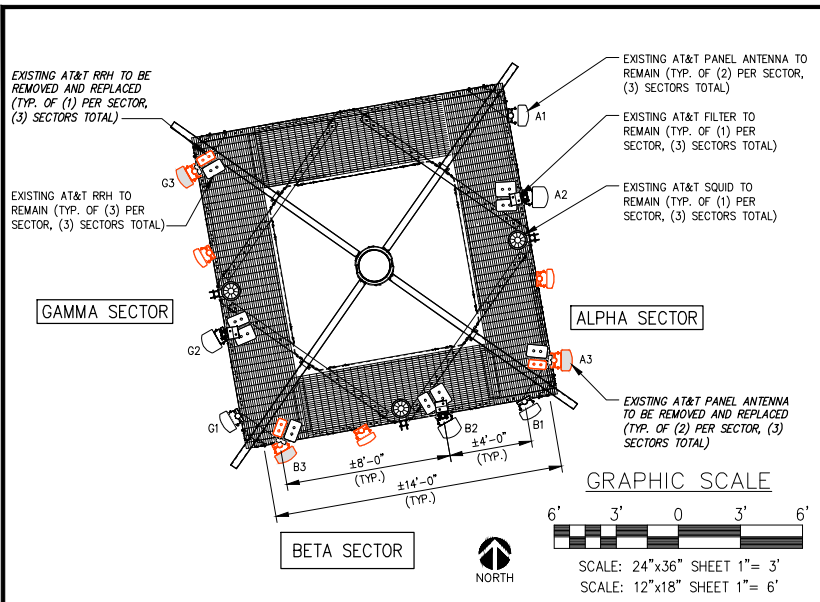
SITE ADDRESS:
 15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930

SHEET DESCRIPTION:
 WEST
 ELEVATION
 POD #PPR2019

SHEET NUMBER:
C-5

EXISTING WEST ELEVATION SCALE: AS NOTED 1

PROPOSED WEST ELEVATION SCALE: AS NOTED 2



INFINIGY ENGINEERING HAS EXISTING AT&T MOUNT FOR THIS SITE. REFER TO MOUNT ANALYSIS DATED 11/06/2019 AND STRUCTURAL ANALYSIS PREPARED BY SBA DATED 02/27/2020 PRIOR TO ANY CONSTRUCTION.

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PLANS PREPARED BY:
INFINIGY ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
 JOB NUMBER: 674-003

PROJECT MANAGER:

 10590 W. OCEAN AIR DRIVE, SUITE 300
 SAN DIEGO, CA 92130

ENGINEERING LICENSE:

EXISTING ANTENNA LAYOUT (GAMMA)

SCALE: AS NOTED 1

PROPOSED ANTENNA LAYOUT (GAMMA)

SCALE: AS NOTED 2

ANTENNA SCHEDULE

SECTOR	POSITION	ANTENNA	TECHNOLOGY	RAD CENTER	RRH (QTY/TYP)	TMA/SQUID/DIPLEXER/FILTER (QTY/TYP)
ALPHA	1	(E) POWERWAVE P65-15-XLH-RR	UMTS 850/1900	180°-0"	--	--
ALPHA	2	(E) KMW EPBQ-654LBH8	LTE AWS/WCS	178°-0"	(E) 1/RRH4x25-WCS-4R (E) 1/B66A RRH4x45-4R	(E) (1) WCS-IMFQ-AMT
ALPHA	3	(N) CCI TPA65R-BUBDA-K	LTE 850, 5G 850	178°-0"	(N) 1/AHCA	--
ALPHA	4	(N) CCI TPA65R-BUBDA-K	LTE 700/1900	178°-0"	1/AHLBA (AT ANTENNA) (E) 1/B25 RRH4X30-4R	(E) (1) DC6-48-60-18-8F
BETA	1	(E) POWERWAVE P65-15-XLH-RR	UMTS 850/1900	180°-0"	--	--
BETA	2	(E) KMW EPBQ-654LBH8	LTE AWS/WCS	178°-0"	(E) 1/RRH4x25-WCS-4R (E) 1/B66A RRH4x45-4R	(E) (1) WCS-IMFQ-AMT
BETA	3	(N) CCI TPA65R-BUBDA-K	LTE 850, 5G 850	178°-0"	(N) 1/AHCA	(E) (1) DC6-48-60-18-8F
BETA	4	(N) CCI TPA65R-BUBDA-K	LTE 700/1900	178°-0"	1/AHLBA (AT ANTENNA) (E) 1/B25 RRH4X30-4R	--
GAMMA	1	(E) POWERWAVE P65-15-XLH-RR	UMTS 850/1900	180°-0"	--	--
GAMMA	2	(E) KMW EPBQ-654LBH8	LTE AWS/WCS	178°-0"	(E) 1/RRH4x25-WCS-4R (E) 1/B66A RRH4x45-4R	(E) (1) WCS-IMFQ-AMT
GAMMA	3	(N) CCI TPA65R-BUBDA-K	LTE 850, 5G 850	178°-0"	(N) 1/AHCA	(E) (1) DC6-48-60-18-8F
GAMMA	4	(N) CCI TPA65R-BUBDA-K	LTE 700/1900	178°-0"	1/AHLBA (AT ANTENNA) (E) 1/B25 RRH4X30-4R	--

CABLE INVENTORY

CABLE TYPE	CABLE AMOUNT	CABLE LENGTH
3	FIBER	±230'
3	2" INNERDUCT	±230'
6	DC LINES	±230'
6	LDF5-50A_850	±300'

- NOTES:
 1. INFORMATION BASED ON PROVIDED RFDS CURRENT AT THE TIME DRAWINGS WERE ISSUED. CONTRACTOR SHALL BASE CONSTRUCTION ON FINAL APPROVED RFDS. IN CASE OF CONFLICT, FINAL APPROVED RFDS SUPERSEDES THIS INFORMATION.
 2. SEE RFDS FOR EXISTING AND PROPOSED ANTENNA MODEL/DIMENSIONS/AZIMUTHS/RAD CENTERS/TILTS.
 3. CONTRACTOR TO VERIFY REQUIRED CABLE LENGTHS PRIOR TO CONSTRUCTION.
 4. CONTRACTOR TO REMOVE UNUSED GSM COAX CABLES AS NECESSARY TO ACCOMMODATE PROPOSED DC & FIBER TRUNKS

LOADING CHART

NO SCALE 3

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REVISED/ISSUED FOR REVIEW		11/26/19	CAP	B
ISSUED FOR REVIEW		10/18/19	CAP	A

AT&I SITE NAME:
SCHREIVER AFB

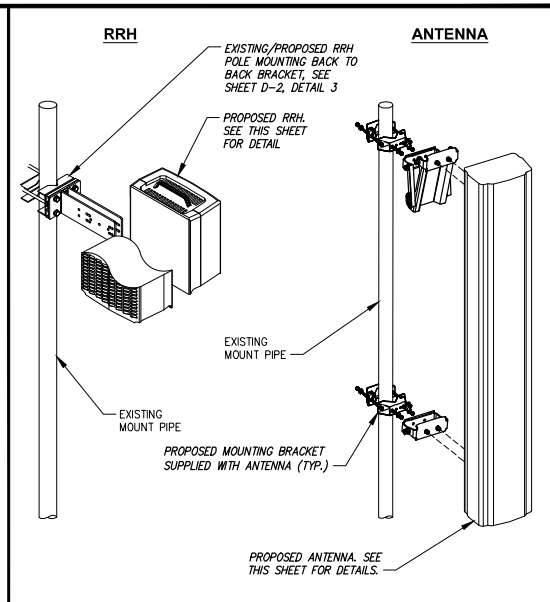
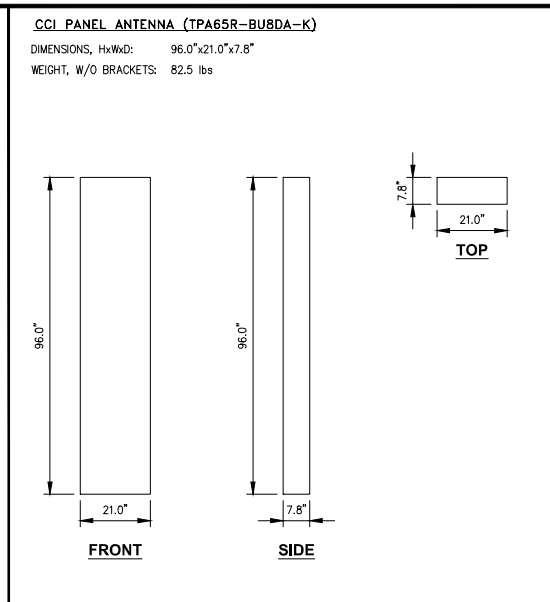
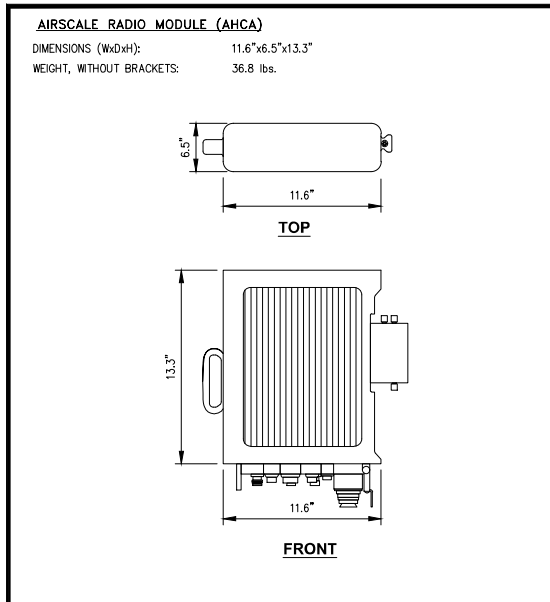
AT&I SITE NUMBER:
COL02065

AT&I FA NUMBER:
10099187

SITE ADDRESS:
**15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930**

SHEET DESCRIPTION:
**ANTENNA LAYOUTS
 & LOADING CHART**

SHEET NUMBER:
C-6



PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY8
 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
 JOB NUMBER: 674-003

PROJECT MANAGER:

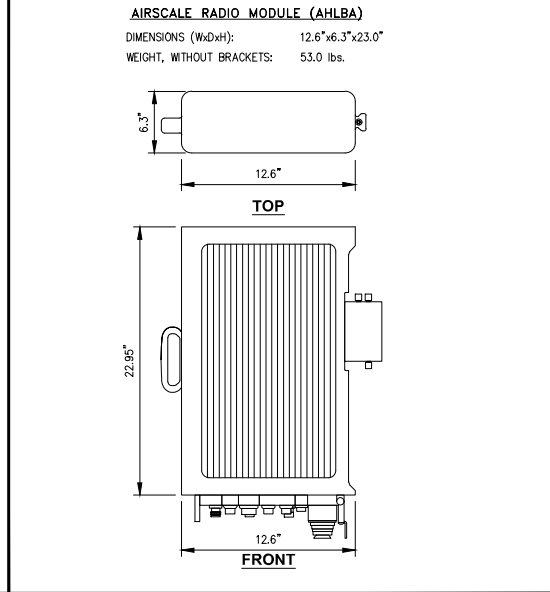
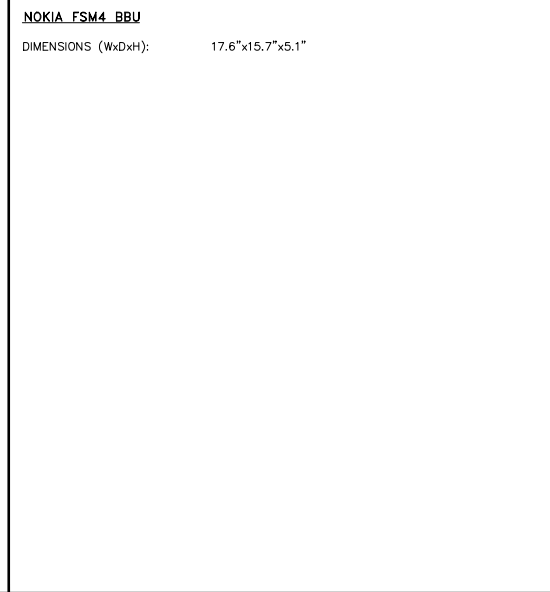
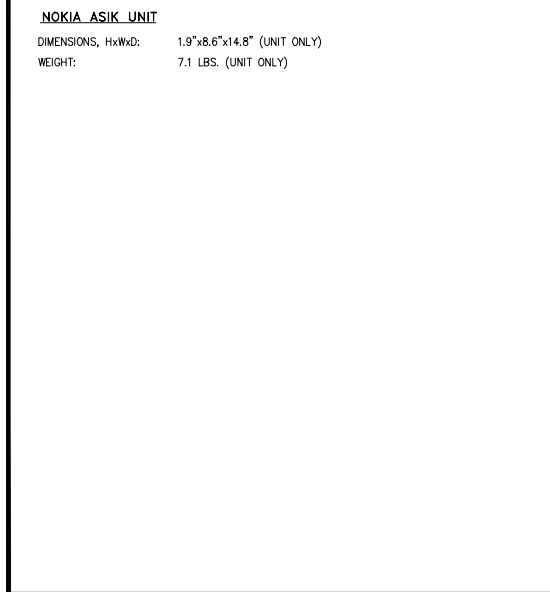
 10590 W. OCEAN AIR DRIVE, SUITE 300
 SAN DIEGO, CA 92130

ENGINEERING LICENSE:

REMOTE RADIO HEAD SPECIFICATIONS (OR SIMILAR) NO SCALE 1

PANEL ANTENNA SPECIFICATIONS (OR SIMILAR) NO SCALE 2

EQUIPMENT MOUNTING DETAIL NO SCALE 3



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AT&T SITE NUMBER:
COL02065

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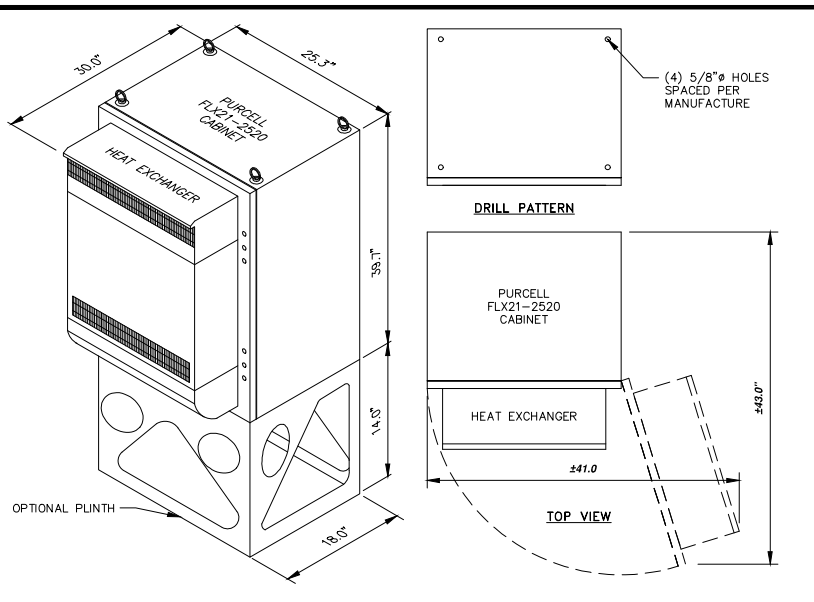
SHEET DESCRIPTION:
EQUIPMENT DETAILS

SHEET NUMBER:
D-1

ASIK SPECIFICATIONS NO SCALE 4

FSM4 BBU SPECIFICATIONS NO SCALE 5

REMOTE RADIO HEAD SPECIFICATIONS (OR SIMILAR) NO SCALE 6



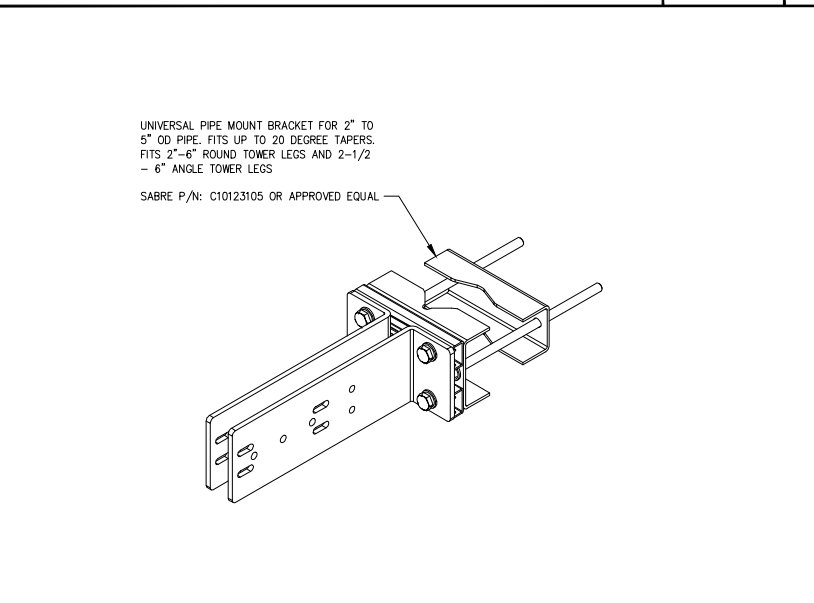
PURCELL CABINET DETAIL

NO SCALE 1



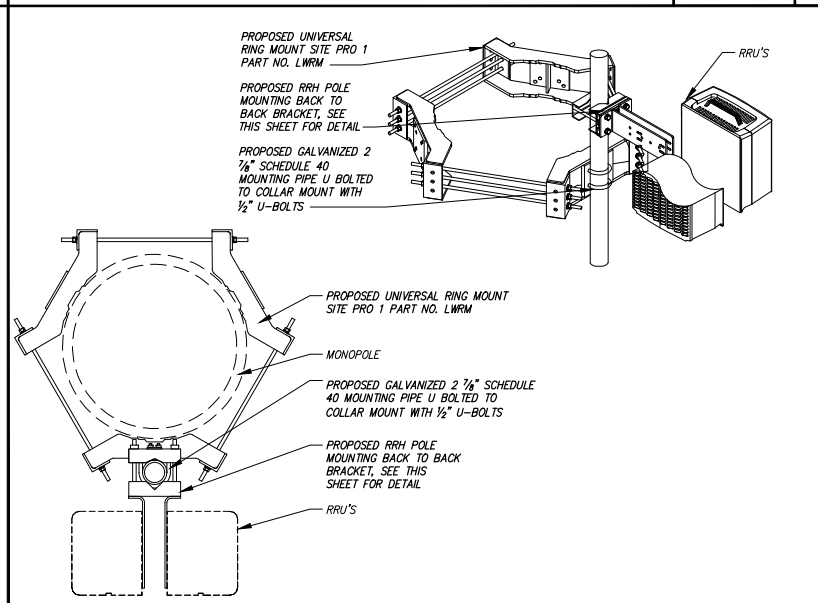
RECTIFIER SPECIFICATIONS

NO SCALE 2



BACK TO BACK MOUNT DETAIL

NO SCALE 3



RRH MOUNT DETAIL

NO SCALE 4

PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY8
 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
 JOB NUMBER: 674-003

PROJECT MANAGER:
mdj
 10590 W. OCEAN AIR DRIVE, SUITE 300
 SAN DIEGO, CA 92130



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SCHREIVER AFB

AT&T SITE NUMBER:
COL02065

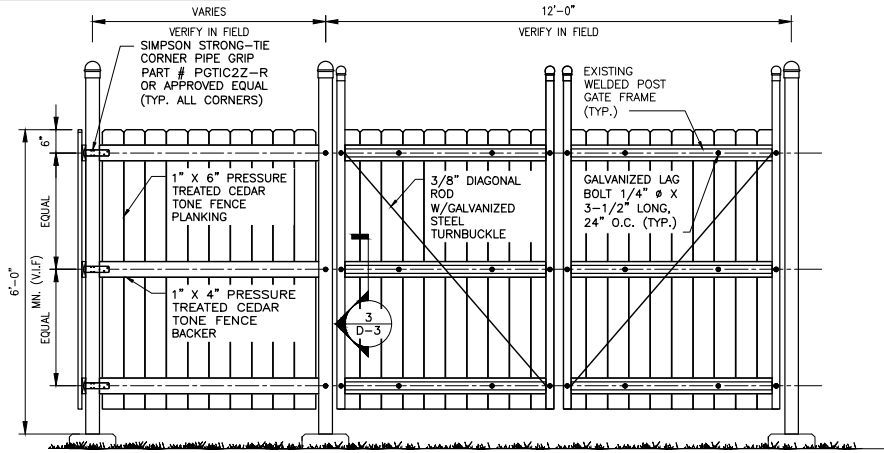
AT&T FA NUMBER:
10099187

SITE ADDRESS:
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 COLORADO SPRINGS, CO 80930**

SHEET DESCRIPTION:
EQUIPMENT DETAILS

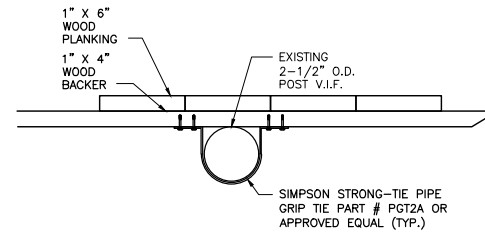
SHEET NUMBER:
D-2

NOTE:
FENCE DETAIL ARE FOR ATTACHMENT OF
WOOD FRAMING TO EXISTING STEEL POSTS.
VERIFY POST STRUCTURAL INTEGRITY IN
FIELD PRIOR TO CONSTRUCTION. NOTIFY
ENGINEER IMMEDIATELY IF FIELD CONDITIONS
DIFFER FROM PLAN



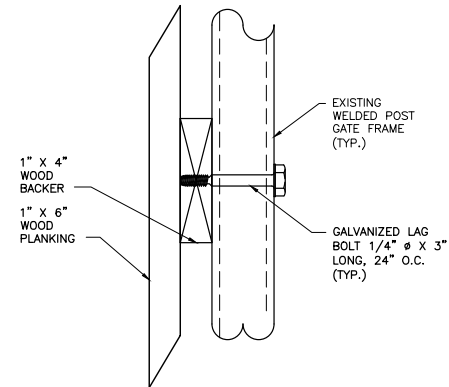
WOOD_GATE_DETAIL

NO SCALE 1



WOOD_FENCE_SECTION

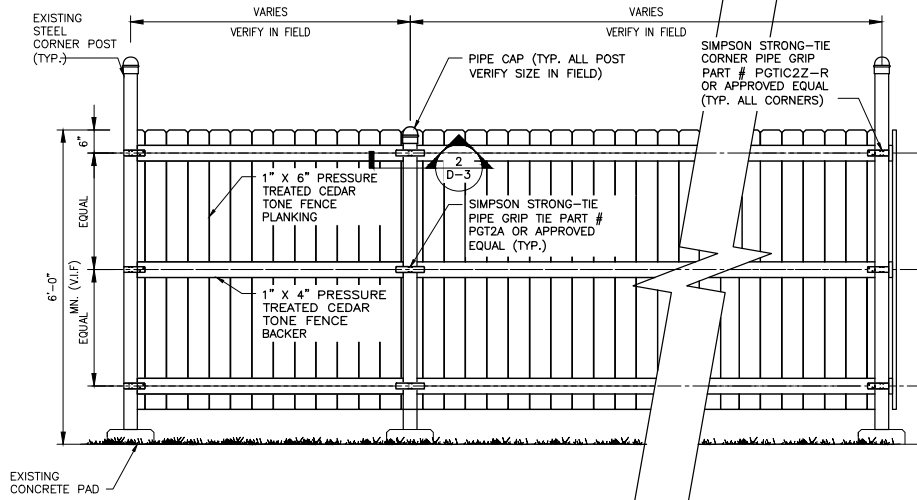
NO SCALE 2



WOOD_GATE_SECTION

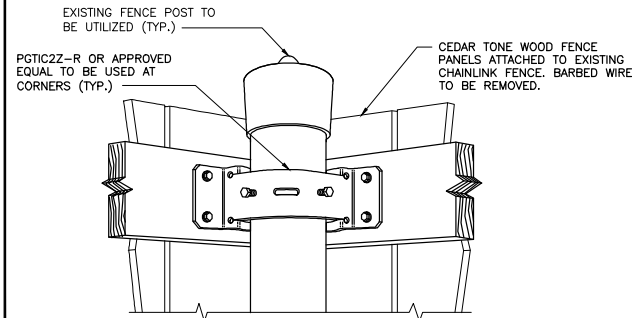
NO SCALE 3

NOTE:
FIELD LOCATE AND THRU DRILL
EXISTING POST 5/16" Ø HOLES,
AS REQUIRED FOR LAG BOLT



WOOD_FENCE_DETAIL

NO SCALE 4



CORNER_PIPE_GRIP_TIE

NO SCALE 5

PLANS PREPARED FOR:

PLANS PREPARED BY:

INFINIGY8
ENGINEERING, PLLC

2500 W. HIGGINS RD, SUITE 600
HOFFMAN ESTATES, IL 60169
Office # (847) 648-4068

JOB NUMBER: 674-003

PROJECT MANAGER:

mdj

10590 W. OCEAN AIR DRIVE, SUITE 300
SAN DIEGO, CA 92130

ENGINEERING LICENSE:



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	ISSUED FOR REVIEW	10/18/19	CAP	A

AT&T SITE NAME:

SCHREIVER AFB

AT&T SITE NUMBER:

COL02065

AT&T FA NUMBER:

10099187

SITE ADDRESS:

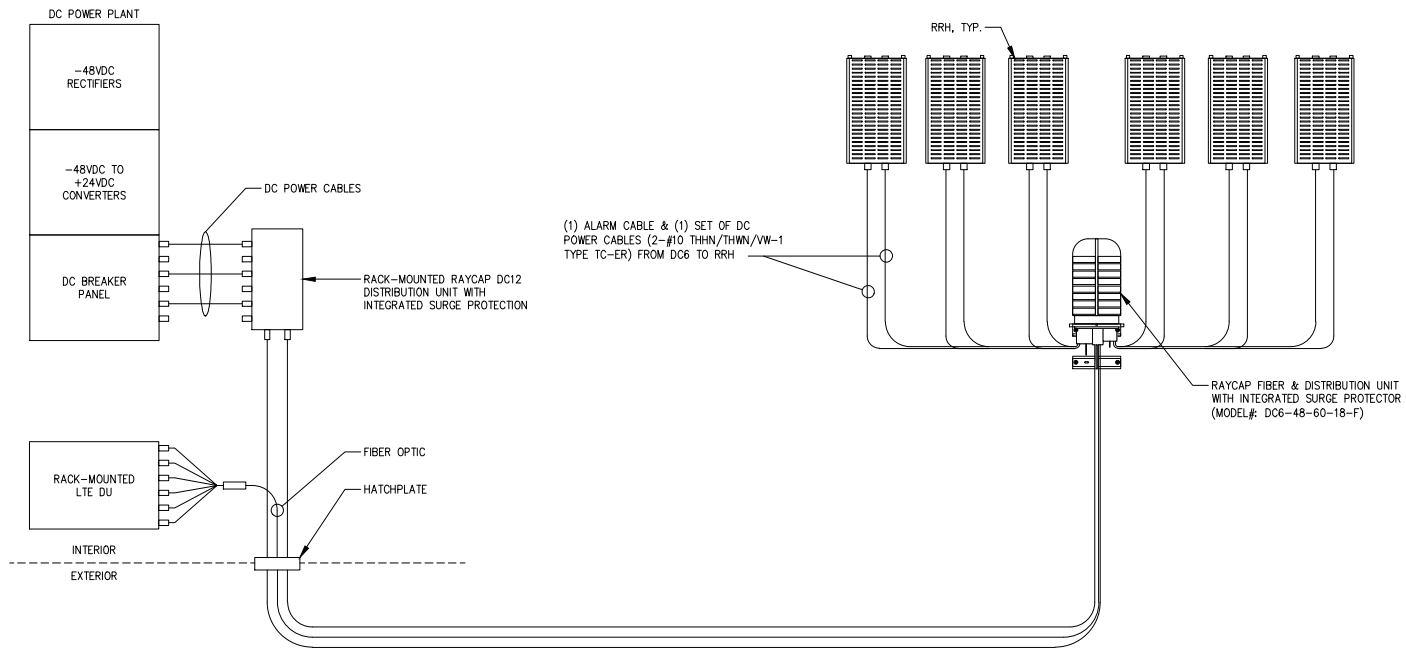
15640 HIGHWAY 94
COLORADO SPRINGS, CO 80930

SHEET DESCRIPTION:

EQUIPMENT DETAILS

SHEET NUMBER:

D-3



- NOTE:**
- DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING +24V AND -48V CONDUCTORS. RED MARKINGS SHALL IDENTIFY +24V AND BLUE MARKINGS SHALL IDENTIFY -48V. REFER TO ATT-002-290-701.
 - NON-LTE DC POWER WIRING SIZE 14AWG TO 10AWG SHALL BE TELCOFLEX L2I. DC POWER WIRING 8AWG AND LARGER SHALL BE TELCOFLEX L2. ALL TELCOFLEX MUST BE L2 IF REPLACED.
 - LTE POWER WIRING SHALL BE IN ACCORDANCE WITH ATT-002-290-531.
 - DC ELECTRICAL LOAD DEMAND FOR PROPOSED ADDITIONS WERE INCLUDED IN PRIOR AC LOAD CALCULATIONS.
 - ALL UPGRADES TO EXISTING SERVICE IS RESPONSIBILITY OF THE OWNER.

PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY8
 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
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 JOB NUMBER: 674-003

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mdj
 10590 W. OCEAN AIR DRIVE, SUITE 300
 SAN DIEGO, CA 92130



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ISSUED FOR REVIEW		10/18/19	CAP	A

AT&T SITE NAME:
SCHREIVER AFB

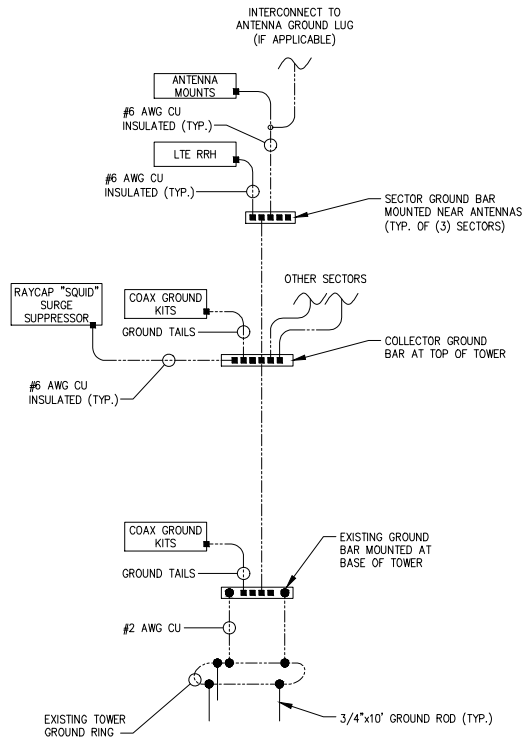
AT&T SITE NUMBER:
COL02065

AT&T FA NUMBER:
10099187

SITE ADDRESS:
 15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930

SHEET DESCRIPTION:
DC SCHEMATIC DIAGRAM

SHEET NUMBER:
E-1



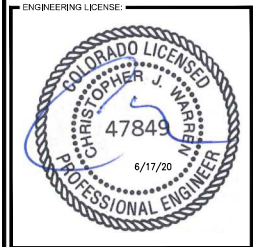
LEGEND:

- EXOTHERMIC
- COMPRESSION TYPE CONNECTIONS
- GROUNDING CONDUCTOR

PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY8
 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
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REVISED/ISSUED FOR REVIEW	11/26/19	CAP	B
ISSUED FOR REVIEW	10/18/19	CAP	A

AT&T SITE NAME:
SCHREIVER AFB

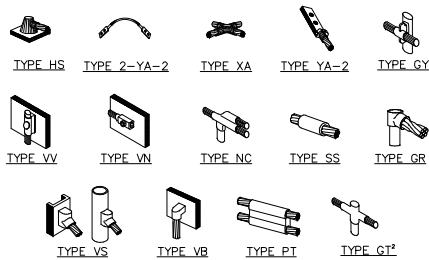
AT&T SITE NUMBER:
COL02065

AT&T FA NUMBER:
10099187

SITE ADDRESS:
 15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930

SHEET DESCRIPTION:
GROUNDING SCHEMATIC DIAGRAM

SHEET NUMBER:
G-1

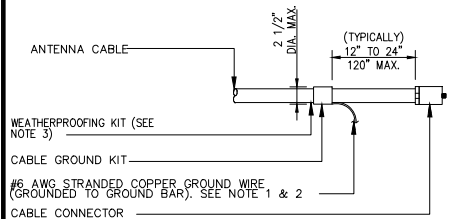


NOTE:
 1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
 2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

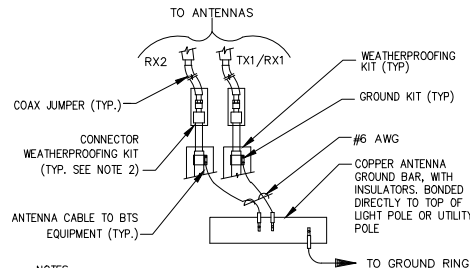
EXOTHERMIC WELD GROUNDING CONNECTIONS

NO SCALE

1



NOTES:
 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.



NOTES:
 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
 2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

CABLE GROUND KIT CONNECTION

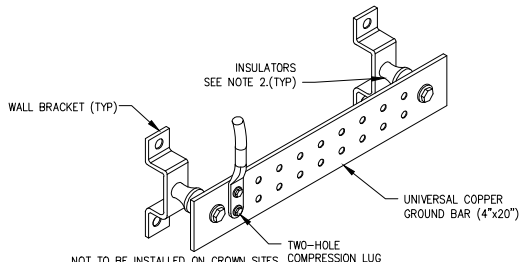
NO SCALE

3

GROUND CABLE CONNECTION

NO SCALE

4

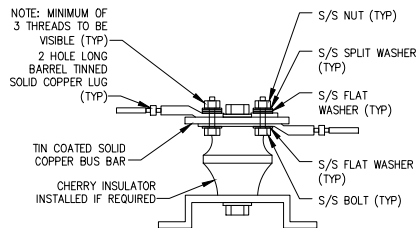


NOTES:
 1. DOWN LEAD (HOME RUN) CONDUCTORS PER THE GROUNDING DOWN CONDUCTOR POLICY GAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. EXOTHERMIC WELDS ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.
 2. NOT TO BE INSTALLED ON CROWN SITES

GROUND BAR DETAIL

NO SCALE

6



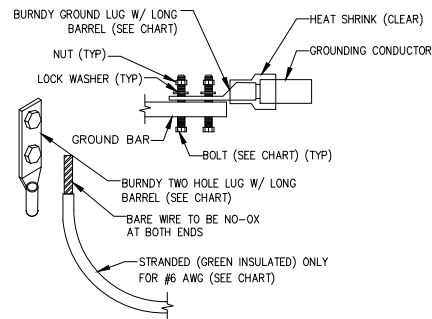
NOTE: MINIMUM OF 3 THREADS TO BE VISIBLE (TYP)
 2 HOLE LONG BARREL TINNED COPPER LUG (TYP)

LUG DETAIL

NO SCALE

7

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED YA6C-2TC38	3/8"	16 NC S 2 BOLT
#2 AWG SOLID TINNED YA3C-2TC38	3/8"	16 NC S 2 BOLT
#2 AWG STRANDED YA2C-2TC38	3/8"	16 NC S 2 BOLT
#2/0 AWG STRANDED YA26-2TC38	3/8"	16 NC S 2 BOLT
#4/0 AWG STRANDED YA28-2N	1/2"	16 NC S 2 BOLT

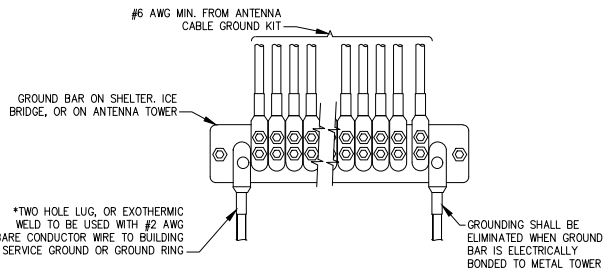


NOTES :
 1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

MECHANICAL LUG CONNECTION

NO SCALE

2



GROUND WIRE INSTALLATION

NO SCALE

5

NOT USED

NO SCALE

8

PLANS PREPARED FOR:

PLANS PREPARED BY:

INFINIGY
 ENGINEERING, PLLC

2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068

JOB NUMBER: 674-003

PROJECT MANAGER:

mdj

10590 W. OCEAN AIR DRIVE, SUITE 300
 SAN DIEGO, CA 92130

ENGINEERING LICENSE:



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DESCRIPTION	DATE	BY	REV
REVISED PER JK	06/12/20	CAP	1
ISSUED FOR CONSTRUCTION	04/03/20	CAP	0
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REVISED/ISSUED FOR REVIEW	11/27/19	CAP	C
REVISED/ISSUED FOR REVIEW	11/26/19	CAP	B
ISSUED FOR REVIEW	10/18/19	CAP	A

AT&T SITE NAME:

SCHREIVER AFB

AT&T SITE NUMBER:

COL02065

AT&T FA NUMBER:

10099187

SITE ADDRESS:

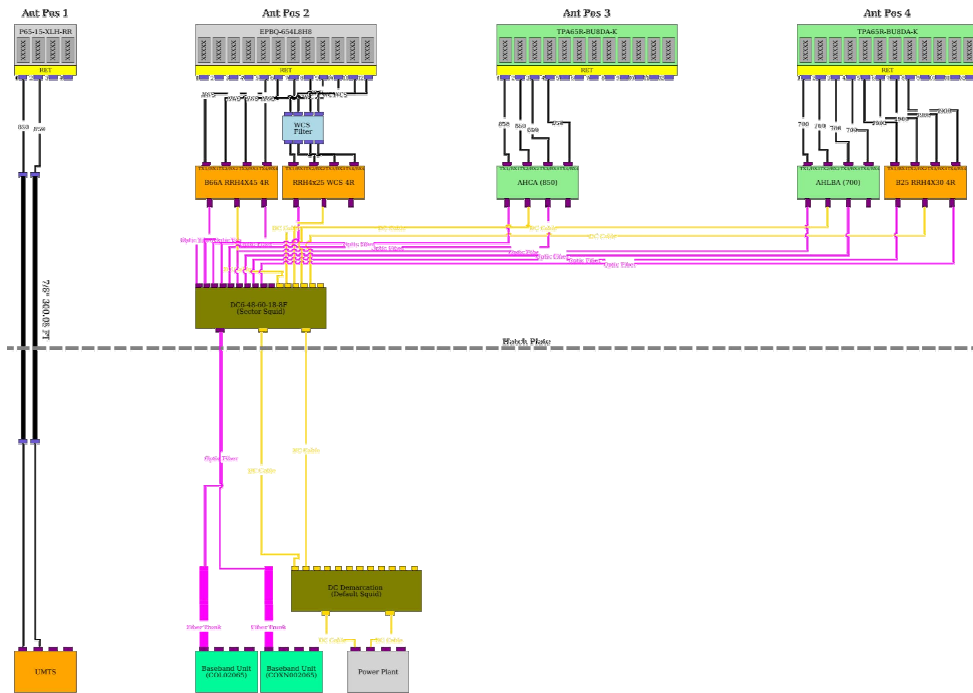
15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930

SHEET DESCRIPTION:

GROUNDING DETAILS

SHEET NUMBER:

G-2



PLANS PREPARED FOR:

PLANS PREPARED BY:
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 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
 JOB NUMBER: 674-003

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ISSUED	FOR REVIEW	10/18/19	CAP	A

AT&T SITE NAME:
 SCHREIVIER AFB

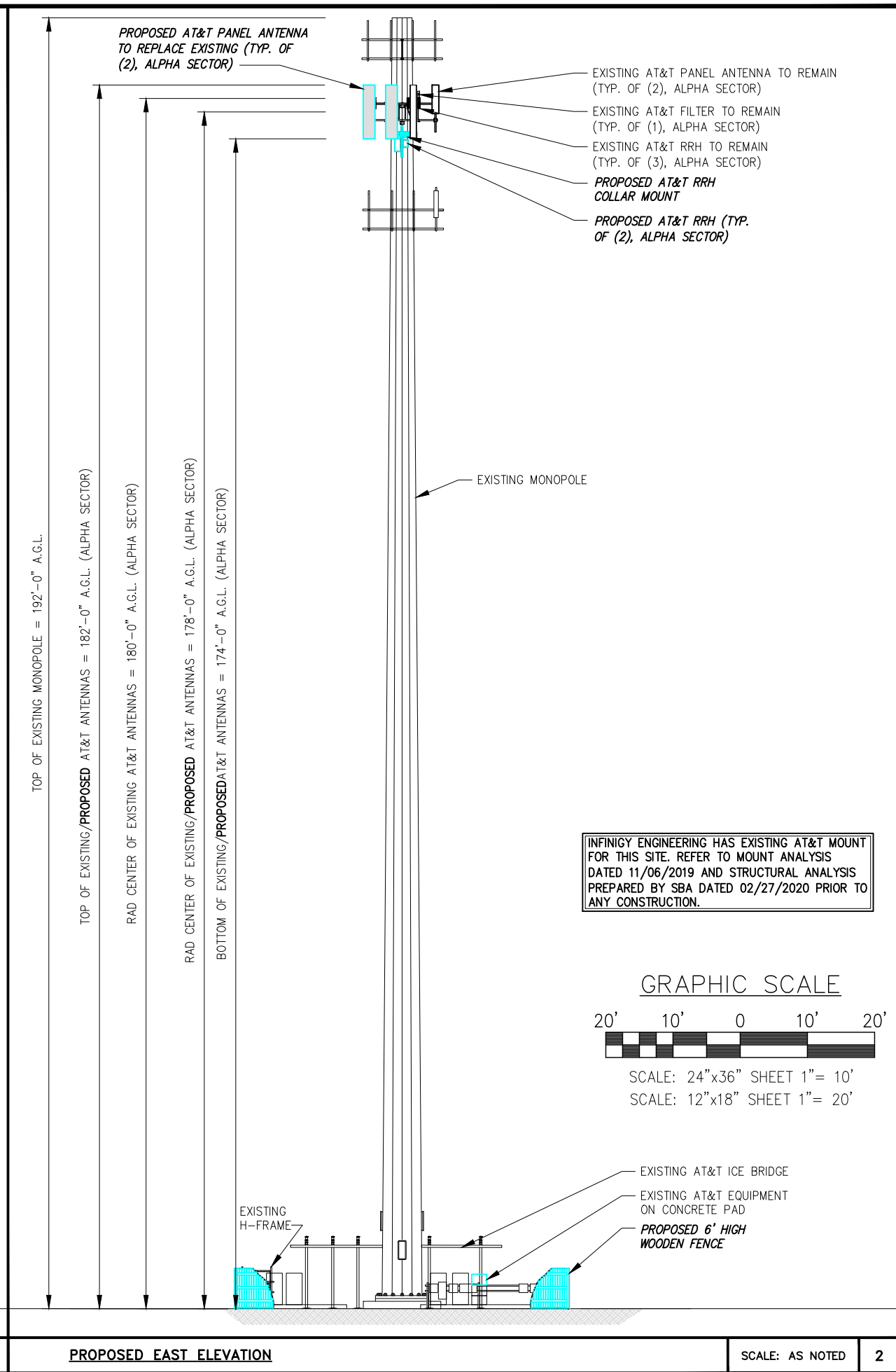
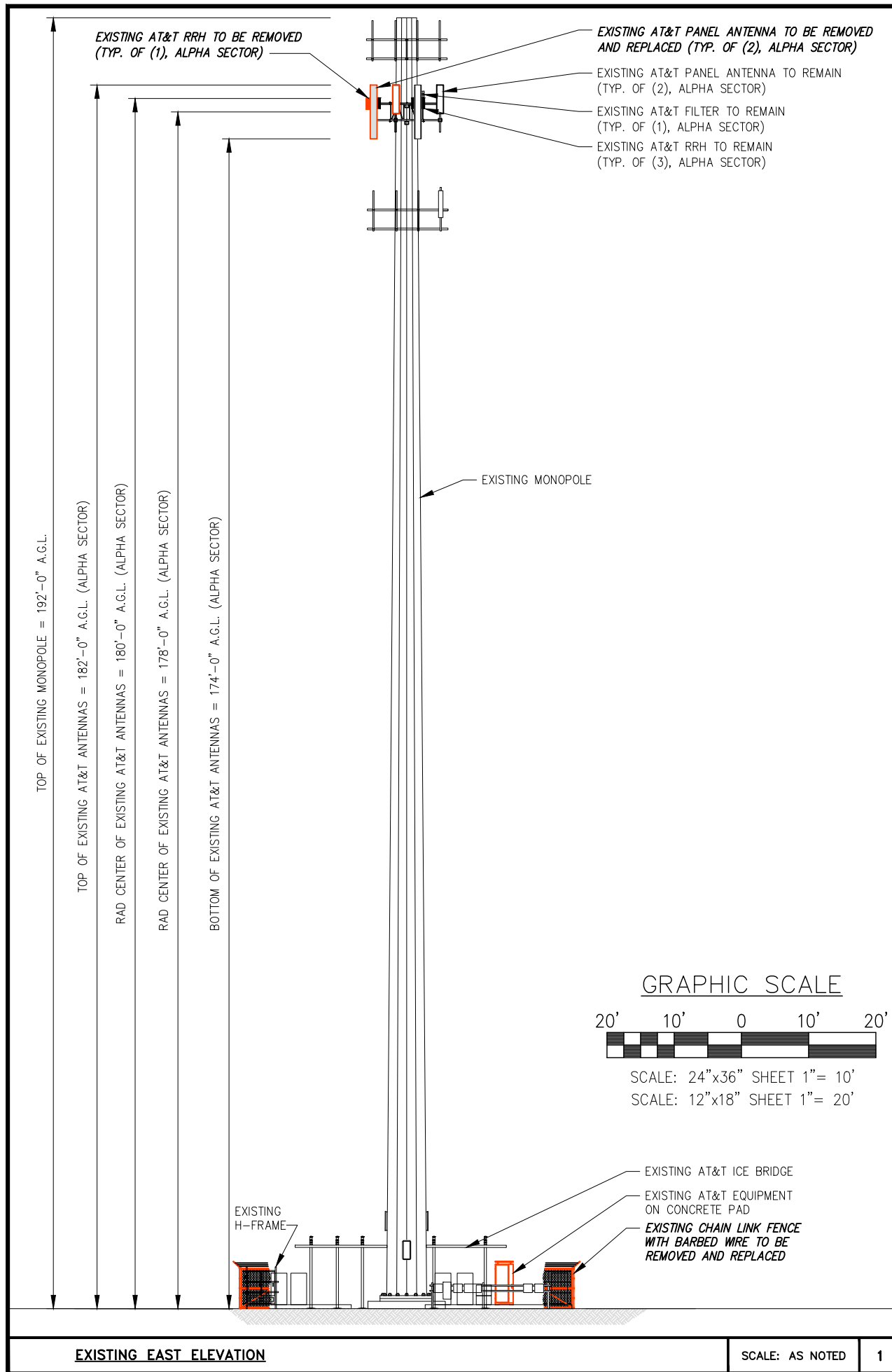
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 COL02065

AT&T FA NUMBER:
 10099187

SITE ADDRESS:
 15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930

SHEET DESCRIPTION:
 PLUMBING DIAGRAM

SHEET NUMBER:
 RF-1



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PLANS PREPARED BY:
INFINIGY
 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
 JOB NUMBER: 674-003

PROJECT MANAGER:

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REVISED/ISSUED FOR REVIEW		11/26/19	CAP	B
ISSUED FOR REVIEW		10/18/19	CAP	A

AT&T SITE NAME:
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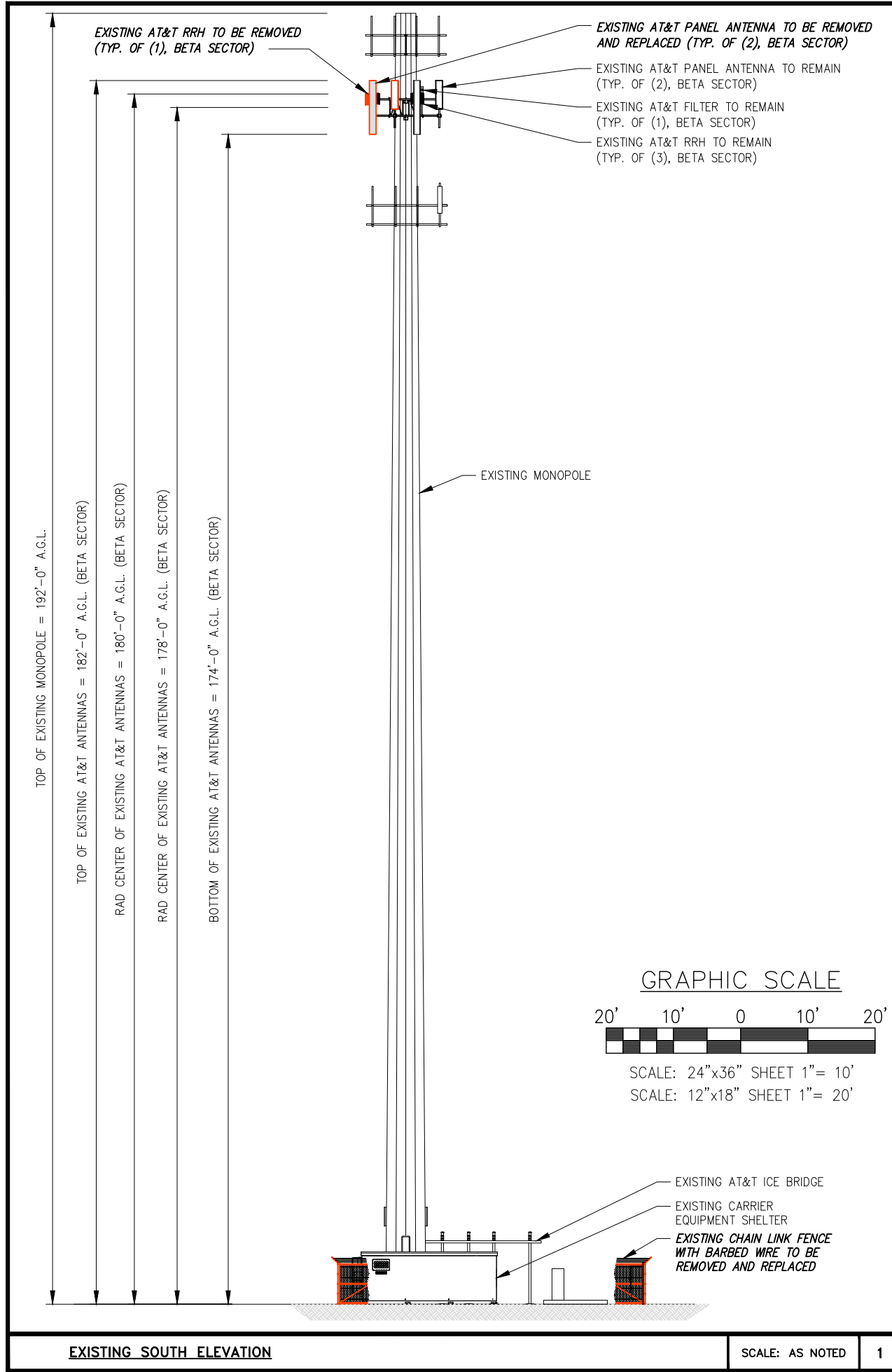
AT&T SITE NUMBER:
COL02065

AT&T FA NUMBER:
10099187

SITE ADDRESS:
**15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930**

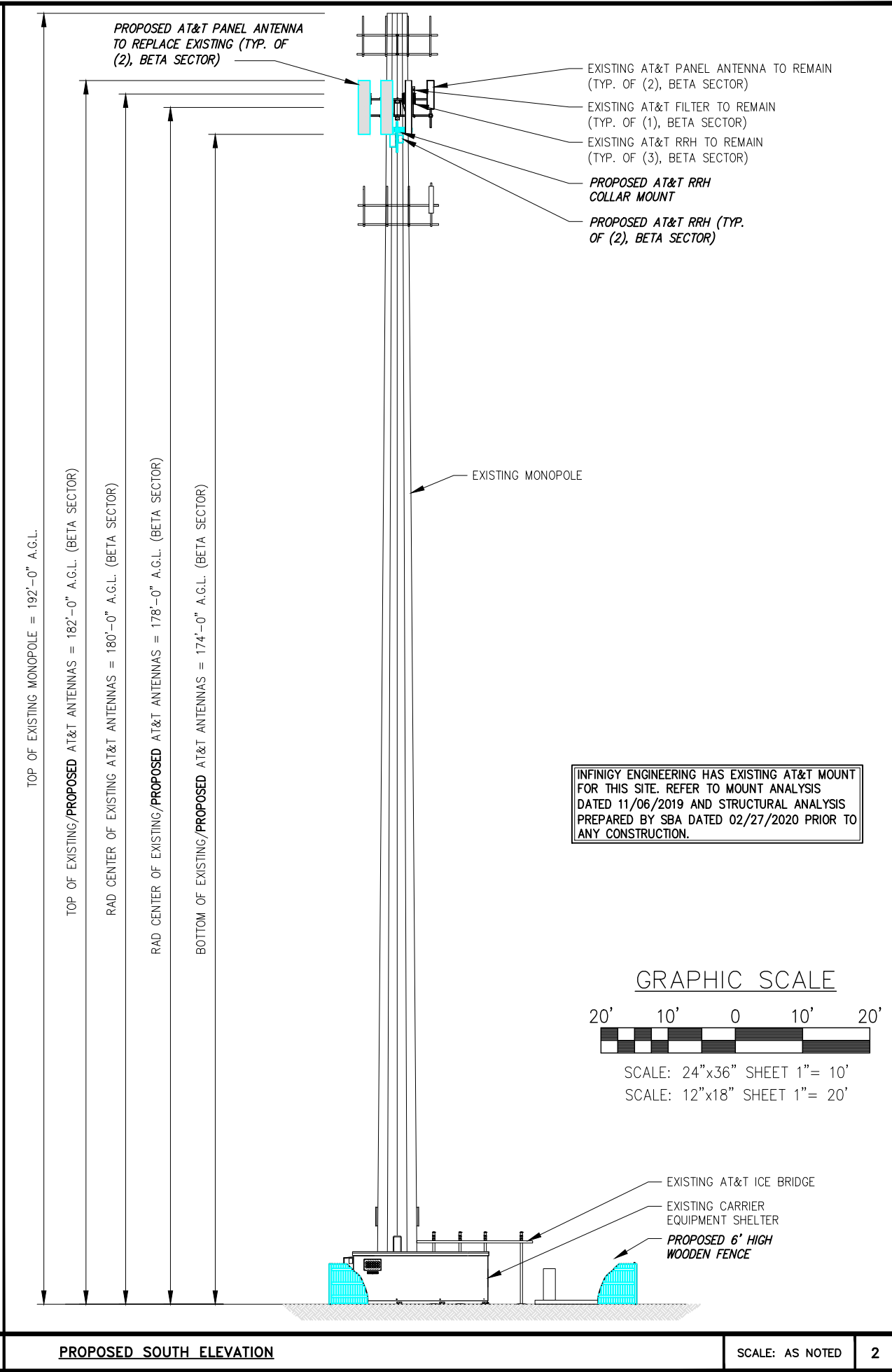
SHEET DESCRIPTION:
**EAST
 ELEVATION
 PCD #PPR2019**

SHEET NUMBER:
C-3



EXISTING SOUTH ELEVATION

SCALE: AS NOTED 1



PROPOSED SOUTH ELEVATION

SCALE: AS NOTED 2

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PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY
 ENGINEERING, PLLC
 2500 W. HIGGINS RD, SUITE 500
 HOFFMAN ESTATES, IL 60169
 Office # (847) 648-4068
 JOB NUMBER: 674-003

PROJECT MANAGER:

 10590 W. OCEAN AIR DRIVE, SUITE 300
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AT&T SITE NAME:
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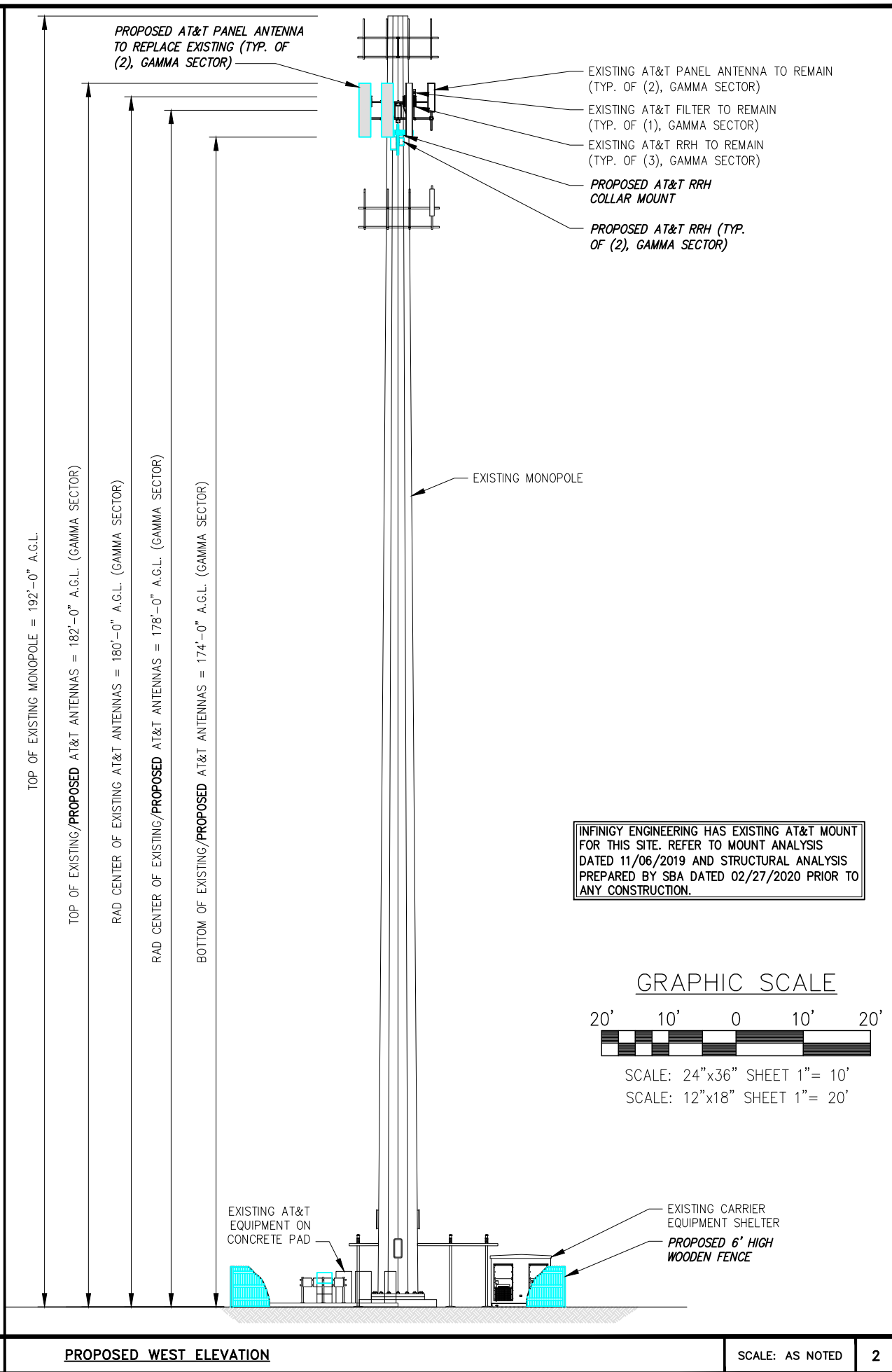
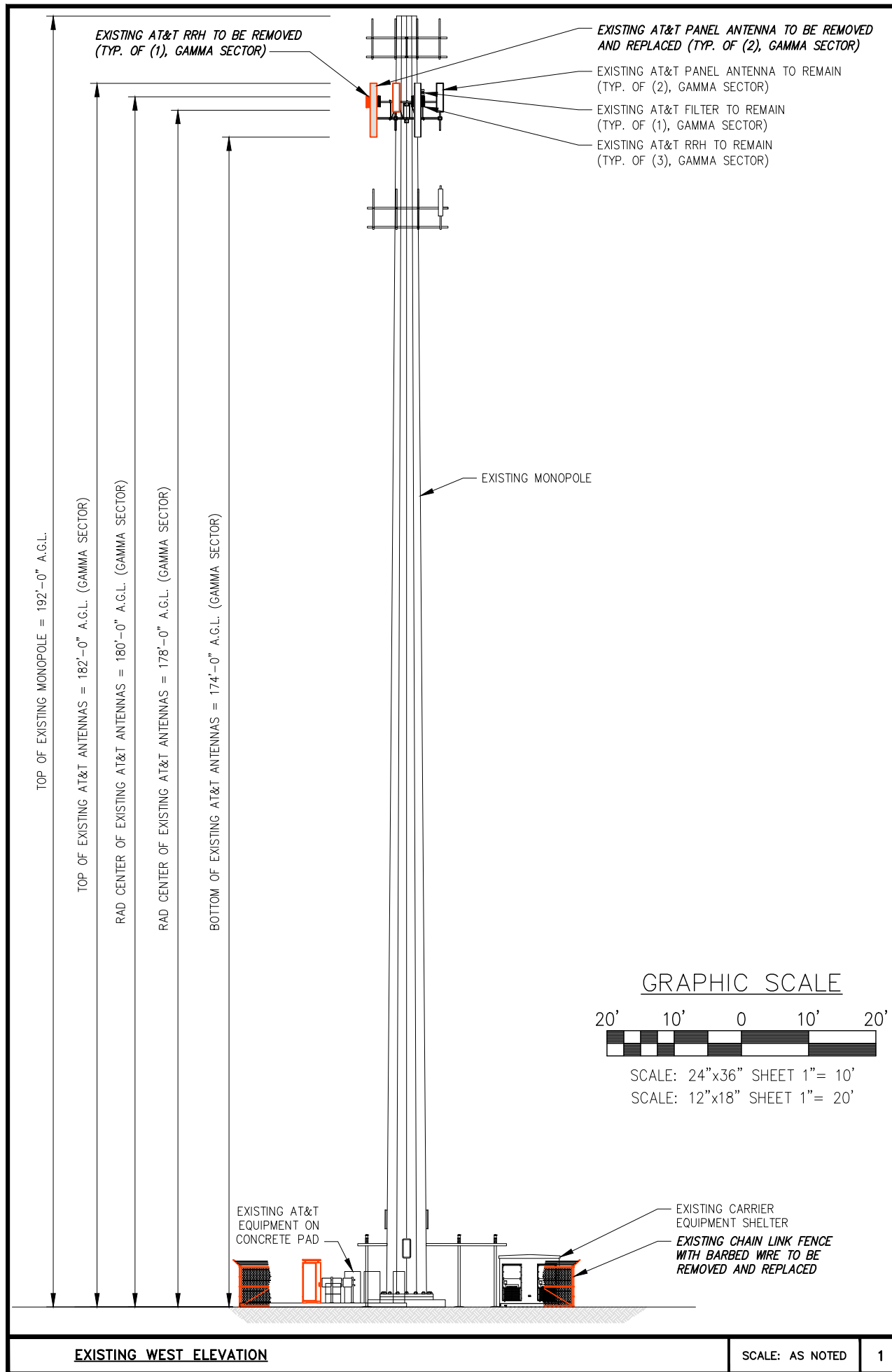
AT&T SITE NUMBER:
COL02065

AT&T FA NUMBER:
10099187

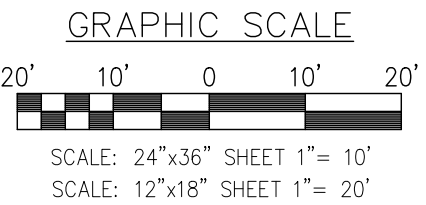
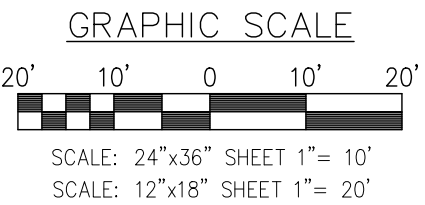
SITE ADDRESS:
**15640 HIGHWAY 94
 COLORADO SPRINGS, CO 80930**

SHEET DESCRIPTION:
**SOUTH ELEVATION
 PCD #PPR2019**

SHEET NUMBER:
C-4



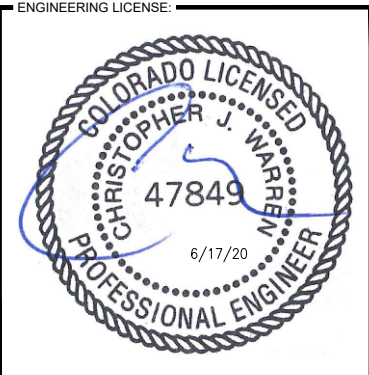
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PLANS PREPARED FOR:

PLANS PREPARED BY:
INFINIGY
ENGINEERING, PLLC
2500 W. HIGGINS RD, SUITE 500
HOFFMAN ESTATES, IL 60169
Office # (847) 648-4068
JOB NUMBER: 674-003

PROJECT MANAGER:
mdh
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SAN DIEGO, CA 92130



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ISSUED FOR REVIEW	10/18/19	CAP	A

AT&T SITE NAME:
SCHREIVER AFB

AT&T SITE NUMBER:
COL02065

AT&T FA NUMBER:
10099187

SITE ADDRESS:
**15640 HIGHWAY 94
COLORADO SPRINGS, CO 80930**

SHEET DESCRIPTION:
**WEST
ELEVATION
PCD #PPR2019**

SHEET NUMBER:
C-5

EXISTING WEST ELEVATION

SCALE: AS NOTED 1

PROPOSED WEST ELEVATION

SCALE: AS NOTED 2