

PROJECT:

CO-LOCATION

SHEET

No.

T-1 TITLE SHEET

SP-1 SPECIFICATIONS

SP-2 SPECIFICATIONS

RF-1 RF DATA SHEET

RF-2 RF DATA SHEET

A-1 OVERALL SITE PLAN A-2 EQUIPMENT PLAN

A-5.2 RFDS PLUMBING DIAGRAM

A-5.3 FEEDLINE COLOR CODING
A-6 EQUIPMENT DETAILS

A-8.1 PURCELL EQUIPMENT DETAILS

A-8.2 PURCELL EQUIPMENT DETAILS

A-7 EQUIPMENT DETAILS

A-9 ANTENNA DETAILS

E-3 GROUNDING PLAN

E-5 ELECTRICAL DETAILS

E-6 ELECTRICAL DETAILS

E-8 CIRCUIT SCHEDULE

E-7 PURCELL A/C POWER DISTRIBUTION

E-1 OVERALL UTILITY PLAN

E-2 ENLARGED UTILITY PLAN

A-10 RRU DETAILS

A-3 EQUIPMENT ELEVATIONS & CABLE PLAN

A-4 ANTENNA LAYOUT & MOUNTING DETAILS

A-5.1 RFDS DATA SHEET & EQUIPMENT INFORMATION

E-4 ELECTRICAL DETAILS & TOWER TOP GROUNDING PLAN

SITE NAME:

ATC#36075 LOWENS示E制

SITE CASCADE: KC25XC198 MICHAEL OWENS NUMBER

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DRAWING INDEX

SHEET TITLE

AMERICAN TOWER® 116 HUNTINGTON AVE, 11TH FLOOR BOSTON, MASSACHUSETTS 02116

-SITE OWNER:

- PLANS PREPARED FOR: 6580 Sprint Parkway Overland Park, Kansas 66251

PLANS PREPARED BY:
9900 West 109th Street, Suite 300 Overland Park, Kansas 66210 Phone: 913-438-7700 943-438-7777



- ENGINEERING LICENSE 0 SC/E STATE OF MISSOU STATE CERTIFICATE OF AUTHORIZATION # EF-2791 ENGINEER. 0 SC 0 SC

TMS TERRANCE M. SUPER E-18521 ELECTRICAL SDK SHELTON D. KEISLING E-27323 ELECTRICAL

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LEE S SUMMIT #1B 36075

- APPLICANT SITE NAME & SITE CASCADE: -

ATC#36075 LOWENSTEIN KC25XC198

-SITE ADDRESS: -

2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

SHEET DESCRIPTION: -

TITLE SHEET

- DWG INFORMATION: - SHEET NUMBER: -CHECKED BY:

JURISDICTION COMPLIANCE REGION MAP SITE ADDRESS: ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING SITE CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. LOCATION NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. COUNTY: INTERNATIONAL BUILDING CODE INTERNATIONAL MECHANICAL CODE ANSI/TIA-222 STRUCTURAL STANDARD NFPÁ 780 - LIGHTNING PROTECTION CODE UNIFORM PLUMBING CODE NATIONAL ELECTRICAL CODE

LANDLORD

AERIAL MAP



Know what's below. Call before you dig.

THE UTILITIES AS SHOWN ON THIS SET OF DRAWINGS WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THE INFORMATION PROVIDED IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.

SITE INFORMATION

2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

JACKSON

POWER COMPANY:

KCPL

AAV PROVIDER:

TBD

PROPERTY OWNER:

AMERICAN TOWER CORPORATION 116 HUNTINGTON AVE, 11TH FLOOR BOSTON, MASSACHUSETTS 02116 APPLICATION DATE: 10/18/17

STRUCTURE INFORMATION:

LATITUDE:

38° 55' 59.66"N (NAD 83) 38.93324°

LONGITUDE:

94° 25' 3.29"W (NAD 83)

GROUND ELEVATION: STRUCTURE HEIGHT: STRUCTURE TYPE:

479'-0" AGL GUYED TOWER ANTENNA CENTERLINE: 180'-0" AGL

APPLICANT:

6580 SPRINT PARKWAY OVERLAND PARK, KS 66251

SPRINT CM:

SITE ACQUISITION:

RAY LOPEZ

PHONE: (816) 651-9569 ray.lopez@sprint.com

PYRAMID NETWORK SERVICES LLC JOE COYLE

PHONE: (816) 560-5035

A&E:

BUTCH DOUGHERTY PHONE: (913) 938-7700

PROJECT INFORMATION **APPROVALS**

SIGNER	SIGNATURE	DATE
SPRINT CONSTRUCTION MANAGER		
SPRINT OPERATIONS MANAGER		
SPRINT RF ENGINEER		

. INSTALL (1) EQUIPMENT PLATFORM

INSTALL (1) DO E-CABINET & (1) DO I-CABINET

INSTALL (1) 200A PPC

INSTALL (3) ANTENNA FRAMES

INSTALL (9) RRU'S

INSTALL (42) JUMPERS

CONSULTING TEAM

INSTALL (6) PANEL ANTENNAS

ENGINEERING: SSC, INC.

9900 WEST 109TH STREET, SUITE 300 OVERLAND PARK, KANSAS 66210 PHONE: (913) 438-7700

FAX: (913) 438-7777 H.F. DOUGHERTY - PROJECT MANAGER

M.L. OWENS - LEAD ENGINEER

S.D. KEISLING - LEAD ELECTRICAL

H.E. ERICACAE - LEAD DESIGNER

DRAWN BY:

THESE OUTLINE SPECIFICATIONS IN CONJUNCTION WITH THE SPRINT CONSTRUCTION STANDARDS FOR WIRELESS SITES, INCLUDING CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS, DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.

SECTION 01 100 - SCOPE OF WORK

THE WORK: SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF.

PRECEDENCE

SHOULD CONFLICTS OCCUR BETWEEN THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES INCLUDING THE STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE CONSTRUCTION DRAWINGS, INFORMATION ON THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE.

SITE FAMILIARITY:
CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

DRAWINGS. SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE:
THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION

DRAWINGS AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.

- A. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- CONTRACTOR SHALL NOTIFY SPRINT CONSTRUCTION MANAGER OF ANY VARIATIONS PRIOR TO PROCEEDING WITH THE WORK.DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS NOTED OTHERWISE. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED
- C. MARK THE FIELD SET OF DRAWINGS IN RED, DOCUMENTING ANY CHANGES FROM THE CONSTRUCTION DOCUMENTS.

METHODS OF PROCEDURE (MOPS) FOR CONSTRUCTION: CONTRACTOR SHALL PERFORM WORK AS DESCRIBED IN

- A. COAX COLOR CODING SWEEPS AND FIBER TESTING TS-0200 AND EL-0568
- B. CABLE LABELING EN-2012-00
- C. APPLICABLE INSTALLATION MOPS IDENTIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS

SECTION 01 200 - COMPANY FURNISHED MATERIAL AND EQUIPMENT

COMPANY FURNISHED MATERIAL AND EQUIPMENT IS IDENTIFIED ON THE RF DATA SHEET IN THE CONSTRUCTION DRAWINGS.

CONTRACTOR IS RESPONSIBLE FOR SPRINT PROVIDED MATERIAL AND EQUIPMENT TO ENSURE IT IS PROTECTED AND HANDLED PROPERLY THROUGHOUT THE CONSTRUCTION

CONTRACTOR RESPONSIBLE FOR RECEIPT OF SPRINT FURNISHED EQUIPMENT AT CELL SITE OR CONTRACTORS LOCATION. CONTRACTOR TO COMPLETE SHIPPING AND RECEIPT DOCUMENTATION IN ACCORDANCE WITH COMPANY PRACTICE.

SECTION 01 300 - CELL SITE CONSTRUCTION

NOTICE TO PROCEED:

NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF WORK ORDER.

CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS

SECTION 01 400 - SUBMITTALS & TESTS

AT THE COMPANY'S REQUEST, ANY ALTERNATIVES TO THE MATERIALS OR METHODS SPECIFIED SHALL BE SUBMITTED TO SPRINTS CONSTRUCTION MANAGER FOR APPROVAL. SPRINT WILL REVIEW AND APPROVE ONLY THOSE REQUESTS MADE IN WRITING. NO VERBAL APPROVALS WILL BE CONSIDERED.

TESTS AND INSPECTIONS:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
- CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- COAX SWEEPS AND FIBER TESTS PER TS-0200 REV 4 ANTENNA LINE ACCEPTANCE
- 2. AGL. AZIMUTH AND DOWNTILT PROVIDE AN AUTOMATED REPORT UPLOADED TO SPRINT VISION USING A COMMERCIAL MADE-FOR THE PURPOSE ELECTRONIC ANTENNA ALIGNMENT TOOL (AAT). INSTALLED AZIMUTH, CENTERLINE AND DOWNTILT MUST CONFORM WITH RF CONFIGURATION DATA

- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A
- 4. ALL TESTING REQUIRED BY APPLICABLE INSTALLATION MOPS.
- C. REQUIRED CLOSEOUT DOCUMENTATION INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
 - 1. AZIMUTH, DOWNTILT, AGL FROM SUNSIGHT INSTRUMENTS ANTENNALIGN ALIGNMENT TOOL (AAT)
 - 2. SWEEP AND FIBER TESTS
 - 3. SCALABLE BARCODE PHOTOGRAPHS OF TOWER TOP AND INACCESSIBLE SERIALIZED
 - 4. ALL AVAILABLE JURISDICTIONAL PERMIT AND OCCUPANCY INFORMATION
 - 5. PDF SCAN OF REDLINES PRODUCED IN FIELD
 - 6. A PDF SCAN OF REDLINE MARK-UPS SUITABLE FOR USE IN ELECTRONIC AS-BUILT DRAWING PRODUCTION
 - 7. LIEN WAIVERS
 - 8. FINAL PAYMENT APPLICATION
 - 9. REQUIRED FINAL CONSTRUCTION PHOTOS
 - 10. CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEFICIENT ITEMS
 - 11. APPLICABLE POST NTP TASKS INCLUDING DOCUMENT UPLOADS COMPLETED IN SPRINT VISION (SPRINTS DOCUMENT REPOSITORY OF RECORD).
 - 12. CLOSEOUT PHOTOGRAPHS AND CLOSEOUT CHECKLIST: SPRINT WILL PROVIDE SEPARATE GUIDANCE

SECTION 11 700 - ANTENNA ASSEMBLY, REMOTE RADIO UNITS AND CABLE INSTALLATION

THIS SECTION SPECIFIES INSTALLATION OF ANTENNAS, RRU'S, AND CABLE EQUIPMENT, INSTALLATION, AND TESTING OF COAXIAL FIBER CABLE.

ANTENNAS AND RRU'S:

THE NUMBER AND TYPE OF ANTENNAS AND RRU'S TO BE INSTALLED IS DETAILED ON THE CONSTRUCTION DRAWINGS.

HYBRID CABLE WILL BE DC/FIBER AND FURNISHED FOR INSTALLATION AT EACH SITE. CABLE SHALL BE INSTALLED PER THE CONSTRUCTION DRAWINGS AND THE APPLICABLE MANUFACTURER'S REQUIREMENTS.

JUMPERS AND CONNECTORS:

FURNISH AND INSTALL 1/2" COAX JUMPER CABLES BETWEEN THE RRU'S AND ANTENNAS. JUMPERS SHALL BE TYPE LDF 4, FLC 12-50, CR 540, OR FXL 540. SUPER-FLEX CABLES ARE NOT ACCEPTABLE. JUMPERS BETWEEN THE RRU'S AND ANTENNAS OR TOWER TOP AMPLIFIERS SHALL CONSIST OF 1/2 INCH FOAM DIELECTRIC, OUTDOOR RATED COAXIAL CABLE, MIN LENGTH FOR JUMPER SHALL BE 10"-0".

REMOTE ELECTRICAL TILT (RET) CABLES

INSTALL SPLITTERS, COMBINERS, FILTERS PER RF DATA SHEET, FURNISHED BY SPRINT.

ANTENNA INSTALLATION

THE CONTRACTOR SHALL ASSEMBLE ALL ANTENNAS ONSITE IN ACCORDANCE WITH THE INSTRUCTIONS SUPPLIED BY THE MANUFACTURER. ANTENNA HEIGHT, AZIMUTH, AND FEED ORIENTATION INFORMATION SHALL BE A DESIGNATED ON THE CONSTRUCTION DRAWINGS.

- A. THE CONTRACTOR SHALL POSITION THE ANTENNA ON TOWER PIPE MOUNTS SO THAT THE BOTTOM STRUT IS LEVEL. THE PIPE MOUNTS SHALL BE PLUMB TO WITHIN
- B. ANTENNA MOUNTING REQUIREMENTS: PROVIDE ANTENNA MOUNTING HARDWARE AS INDICATED ON THE DRAWINGS.

HYBRID CABLE INSTALLATION:

- A. THE CONTRACTOR SHALL ROUTE, TEST, AND INSTALL ALL CABLES AS INDICATED ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S
- B. THE INSTALLED RADIUS OF THE CABLES SHALL NOT BE LESS THAN THE MANUFACTURER'S SPECIFICATIONS FOR BENDING RADII.
- C. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE CABLES DURING HANDLING AND INSTALLATION.
- 1. FASTENING MAIN HYBRID CABLES: ALL CABLES SHALL BE INSTALLED INSIDE MONOPOLE WITH CABLE SUPPORT GRIPS AS REQUIRED BY THE MANUFACTURER.
- 2. FASTENING INDIVIDUAL FIBER AND DC CABLES ABOVE BREAKOUT ENCLOSURE (MEDUSA), WITHIN THE MMBS CABINET AND ANY INTERMEDIATE DISTRIBUTION BOXES:
 - FIBER: SUPPORT FIBER BUNDLES USING 1/2" VELCRO STRAPS OF THE REQUIRED LENGTH © 18" OC. STRAPS SHALL BE UV, OIL AND WATER RESISTANT AND SUITABLE FOR INDUSTRIAL INSTALLATIONS AS MANUFACTURED BY TEXTOL OR APPROVED EQUAL.
- b. DC: SUPPORT DC BUNDLES WITH ZIP TIES OF THE ADEQUATE LENGTH. ZIP TIES TO BE UV STABILIZED, BLACK NYLON, WITH TENSILE STRENGTH AT 12,000 PSI AS MANUFACTURED BY NELCO PRODUCTS OR EQUAL.
- 3. FASTENING JUMPERS: SECURE JUMPERS TO THE SIDE ARMS OR HEAD FRAMES USING STAINLESS STEEL TIE WRAPS OR STAINLESS STEEL BUTTERFLY CLIPS.
- 4. CABLE INSTALLATION:
 - a. INSPECT CABLE PRIOR TO USE FOR SHIPPING DAMAGE, NOTIFY THE CONSTRUCTION MANAGER.
 - CABLE ROUTING: CABLE INSTALLATION SHALL BE PLANNED TO ENSURE THAT THE LINES WILL BE PROPERLY ROUTED IN THE CABLE ENVELOP AS INDICATED ON THE DRAWINGS. AVOID TWISTING AND CROSSOVERS
 - c. HOIST CABLE USING PROPER HOISTING GRIPS. DO NOT EXCEED MANUFACTURES RECOMMENDED MAXIMUM BEND RADIUS.
- GROUNDING OF TRANSMISSION LINES: ALL TRANSMISSION LINES SHALL BE GROUNDED AS INDICATED ON DRAWINGS.
- 6. HYBRID CABLE COLOR CODING: ALL COLOR CODING SHALL BE AS REQUIRED IN TS 0200 REV 4.
- 7. HYBRID CABLE LABELING: INDMIDUAL HYBRID AND DC BUNDLES SHALL BE LABELED ALPHA-NUMERICALLY ACCORDING TO SPRINT CELL SITE ENGINEERING NOTICE EN 2012-001, REV 1

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MICHAEL

OWENS

NUMBER

S.



AMERICAN TOWER®

116 HUNTINGTON AVE. 11TH FLOOR

BOSTON, MASSACHUSETTS 02116

- ENGINEERING LICENSE: STATE OF MISSOUR

SITE OWNER:

STATE CERTIFICATE OF AUTHORIZATION # EF-2791 PE#:

MLO MICHAEL L. OWENS KV KEVIN VANMAELE REJ ROBERT E. JENSEN

TMS TERRANCE M. SUPER E-18521 ELECTRICAL SDK SHELTON D. KEISLING E-27323 ELECTRICAL

DISCIPLINE

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ISSUED FOR CONSTRUCTION	12/07/17	DCP	0
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MLA SITE NAME & SITE NUMBER:

LEE S SUMMIT #1B 36075

- APPLICANT SITE NAME & SITE CASCADE: -ATC#36075 LOWENSTEIN

KC25XC198

SITE ADDRESS:

SHEL TON

KEISLING

NUMBER

E-27323

WILLIAM TOWN

34 36

ROX

2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

SHEET DESCRIPTION: -

SPECIFICATIONS

SP-1 DCP CHECKED BY:

- DWG INFORMATION: -- SHEET NUMBER: DRAWN BY:

SIONAL ENTH

SONAL ENGINEER

CONTINUE FROM SP-1

WEATHERPROOFING EXTERIOR CONNECTORS AND HYBRID CABLE GROUND A

- A. ALL FIBER & COAX CONNECTORS AND GROUND KITS SHALL BE WEATHERPROOFED.
- B. ALL INSTALLATIONS MUST BE DONE IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS AND INDUSTRY BEST PRACTICES
- THE PREFERRED METHOD FOR WEATHERPROOFING IS THE 3M SLIM LOCK CLOSURE 716, OR SPRINT APPROVED EQUAL S SUCH AS PRODUCTS BY AMPHENOL AND JMA.
- D. IN LIMITED QUANTITY AS NEED THE FOLLOWING METHODS OF WEATHER PROOFING MAY ALSO BE USED
 - COLD SHRINK: ENCOMPASS CONNECTOR IN COLD SHRINK TUBING AND PROVIDE A DOUBLE WRAP OF 2" ELECTRICAL TAPE EXTENDING 2" BEYOND TUBING. PROVIDE 3M COLD SHRINK CXS SERIES OR EQUAL.
- 2. SELF-AMALGAMATING TAPE: CLEAN SURFACES. APPLY A DOUBLE WRAP OF SELF-AMALGAMATING TAPE 2" BEYOND CONNECTOR. APPLY A SECOND WRAP OF SELF-AMALGAMATING TAPE IN OPPOSITE DIRECTION. APPLY DOUBLE WRAP OF 2" WIDE ELECTRICAL TAPE EXTENDING 2" BEYOND THE SELF-AMALGAMATING TAPE.
- 3. OPEN FLAME ON JOB SITE IS NOT ACCEPTABLE

SECTION 11 800 - INSTALLATION OF MULTIMODAL BASE STATIONS (MMBS) AND RELATED EQUIPMENT

SUMMARY:

- THIS SECTION SPECIFIES MMBS CABINETS, POWER CABINETS, AND INTERNAL EQUIPMENT INCLUDING BY NOT LIMITED TO RECTIFIERS, POWER DISTRIBUTION UNITS, BASE BAND UNITS, SURGE ARRESTORS, BATTERIES, AND SIMILAR EQUIPMENT FURNISHED BY THE COMPANY FOR INSTALLATION BY THE CONTRACTOR (OFCI).
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS MATERIALS AND PROVIDE ALL LABOR REQUIRED FOR INSTALLATION EQUIPMENT IN EXISTING CABINET OR NEW CABINET AS SHOWN ON DRAWINGS AND AS REQUIRE BY THE APPLICABLE INSTALLATION MOPS
- C. COMPLY WITH MANUFACTURERS INSTALLATION AND START-UP REQUIREMENTS

DC CIRCUIT BREAKER LABELING

NEW DC CIRCUIT IS REQUIRED IN MMBS CABINET SHALL BE CLEARLY IDENTIFIED AS TO RRU BEING SERVICED

SECTION 26 100 - BASIC ELECTRICAL REQUIREMENTS

THIS SECTION SPECIFIES BASIC ELECTRICAL REQUIREMENTS FOR SYSTEMS AND COMPONENTS.

QUALITY ASSURANCE:

- A. ALL EQUIPMENT FURNISHED UNDER DIVISION 26 SHALL CARRY UL LABELS AND LISTINGS WHERE SUCH LABELS AND LISTINGS ARE AVAILABLE IN THE INDUSTRY.
- B. MANUFACTURERS OF EQUIPMENT SHALL HAVE A MINIMUM OF THREE YEARS EXPERIENCE WITH THEIR EQUIPMENT INSTALLED AND OPERATING IN THE FIELD IN A USE SIMILAR TO THE PROPOSED USE FOR THIS PROJECT.
- MATERIALS AND EQUIPMENT: ALL MATERIALS AND EQUIPMENT SPECIFIED IN DIVISION 26 OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND SHALL BE NEW, OF THE BEST QUALITY AND DESIGN, AND FREE FROM DEFECTS

SUPPORTING DEVICES:

- A. ALL EQUIPMENT FURNISHED UNDER DIVISION 26 SHALL CARRY UL LABELS AND LISTINGS WHERE SUCH LABELS AND LISTINGS ARE AVAILABLE IN THE INDUSTRY.
- MANUFACTURERS OF EQUIPMENT SHALL HAVE A MINIMUM OF THREE YEARS EXPERIENCE WITH THEIR EQUIPMENT INSTALLED AND OPERATING IN THE FIELD IN A USE SIMILAR TO THE PROPOSED USE FOR THIS PROJECT.
- MATERIALS AND EQUIPMENT: ALL MATERIALS AND EQUIPMENT SPECIFIED IN DIVISION 26 OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND SHALL BE NEW, OF THE BEST QUALITY AND DESIGN, AND FREE FROM DEFECTS

SUPPORTING DEVICES:

- MANUFACTURED STRUCTURAL SUPPORT MATERIALS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE FOLLOWING:
- 1. ALLIED TUBE AND CONDUIT
- 2. B-LINE SYSTEM
- 3. SUNISTRUT DIVERSIFIED PRODUCTS
- 4. THOMAS & BETTS
- B. FASTENERS: TYPES, MATERIALS, AND CONSTRUCTION FEATURES AS FOLLOWS:
 - 1. EXPANSION ANCHORS: CARBON STEEL WEDGE OR SLEEVE TYPE.
 - 2. POWER-DRIVEN THREADED STUDS: HEAT-TREATED STEEL, DESIGNED SPECIFICALLY FOR THE INTENDED SERVICE.
 - 3. FASTEN BY MEANS OF WOOD SCREWS ON WOOD.
 - 4. TOGGLE BOLTS ON HOLLOW MASONRY UNITS.
 - 5. CONCRETE INSERTS OR EXPANSION BOLTS ON CONCRETE OR SOLID MASONRY.
 - 6. MACHINE SCREWS, WELDED THREADED STUDS, OR SPRING-TENSION CLAMPS ON
 - 7. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE SHALL NOT BE PERMITTED.
 - 8. DO NOT WELD CONDUIT, PIPE STRAPS, OR ITEMS OTHER THAN THREADED STUDS TO STEEL STRUCTURES.
 - 9. IN PARTITIONS OF LIGHT STEEL CONSTRUCTION, USE SHEET METAL SCREWS.

SUPPORTING DEVICES:

- A. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC.
- B. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER TRADES.
- C. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTING HARDWARE SECURELY TO THE STRUCTURE IN ACCORDANCE WITH
- D. ENSURE THAT THE LOAD APPLIED BY ANY FASTENER DOES NOT EXCEED 25 PERCENT OF THE PROOF TEST LOAD.
- E. USE VIBRATION AND SHOCK-RESISTANT FASTENERS FOR ATTACHMENTS TO CONCRETE SLABS.

ELECTRICAL IDENTIFICATION:

- A. UPDATE AND PROVIDE TYPED CIRCUIT BREAKER SCHEDULES IN THE MOUNTING BRACKET, INSIDE DOORS OF AC PANEL BOARDS WITH ANY CHANGES MADE TO THE AC SYSTEM.
- B. BRANCH CIRCUITS FEEDING AVIATION OBSTRUCTION LIGHTING EQUIPMENT SHALL BE CLEARLY IDENTIFIED AS SUCH AT THE BRANCH CIRCUIT PANELBOARD.

SECTION 26 200 - ELECTRICAL MATERIALS AND EQUIPMENT

CONDUIT:

- A. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL BE USED FOR EXTERIOR LOCATIONS ABOVE GROUND AND IN UNFINISHED INTERIOR LOCATIONS AND FOR ENCASED RUNS IN CONCRETE. RIGID CONDUIT AND FITTINGS SHALL BE STEEL. COATED WITH ZINC EXTERIOR AND INTERIOR BY THE HOT DIP GALVANIZING PROCESS. CONDUIT SHALL BE PRODUCED TO ANSI SPECIFICATIONS C80.1, FEDERAL SPECIFICATION WW-C-581 AND SHALL BE LISTED WITH THE UNDERWRITERS' LABORATORIES. FITTINGS SHALL BE THREADED - SET SCREW OR COMPRESSION FITTINGS WILL NOT BE ACCEPTABLE. RGS CONDUITS SHALL BE MANUFACTURED BY ALLIED, REPUBLIC OR WHEATLAND.
- UNDERGROUND CONDUIT IN CONCRETE SHALL BE POLYVINYLCHLORIDE (PVC) SUITABLE FOR DIRECT BURIAL AS APPLICABLE. JOINTS SHALL BE BELLED, AND FLUSH SOLVENT WELDED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONDUIT SHALL BE CARLON ELECTRICAL PRODUCTS OR APPROVED EQUAL.
- TRANSITIONS BETWEEN PVC AND RIGID (RGS) SHALL BE MADE WITH PVC COATED C. METALLIC LONG SWEEP RADIUS ELBOWS.
- D. EMT OR RIGID GALVANIZED STEEL CONDUIT MAY BE USED IN FINISHED SPACES CONCEALED IN WALLS AND CEILINGS. EMT SHALL BE MILD STEEL, ELECTRICALLY WELDED, ELECTRO—GALVANIZED OR HOT—DIPPED GALVANIZED AND PRODUCED TO ANSI SPECIFICATION C80.3, FEDERAL SPECIFICATION WW-C-563, AND SHALL BE UL LISTED. EMT SHALL BE MANUFACTURED BY ALLIED, REPUBLIC OR WHEATLAND, OR APPROVED EQUAL FITTINGS SHALL BE METALLIC COMPRESSION. SET SCREW CONNECTIONS SHALL
- E. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR FINAL CONNECTION TO EQUIPMENT. FITTINGS SHALL BE METALLIC GLAND TYPE COMPRESSION FITTINGS, MAINTAINING THE INTEGRITY OF CONDUIT SYSTEM. SET SCREW CONNECTIONS SHALL NOT BE ACCEPTABLE. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED 6-FEET. LFMC SHALL BE PROTECTED AND SUPPORTED AS REQUIRE BY NEC. MANUFACTURERS OF FLEXIBLE CONDUITS SHALL BE CAROL, ANACONDA METAL HOSE OR UNIVERSAL METAL HOSE, OR APPROVED EQUAL.
- F. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH (21MM).

HUBS AND BOXES:

- A. AT ENTRANCES TO CABINETS OR OTHER EQUIPMENT NOT HAVING INTEGRAL THREADED HUBS PROVIDE METALLIC THREADED HUBS OF THE SIZE AND CONFIGURATION REQUIRED. HUB SHALL INCLUDE LOCKNUT AND NEOPRENE O-RING SEAL PROVIDE IMPACT RESISTANT 105 DEGREE C PLASTIC BUSHINGS TO PROTECT CABLE INSULATION.
- B. CABLE TERMINATION FITTINGS FOR CONDUIT
 - 1. CABLE TERMINATORS FOR RGS CONDUITS SHALL BE TYPE CRC BY O-Z/GEDNEY OR
 - 2. CABLE TERMINATORS FOR LFMC SHALL BE ETCO CL2075; OR MADE FOR THE PURPOSE PRODUCTS BY ROXTEC.
- C. EXTERIOR PULL BOXES AND PULL BOXES IN INTERIOR INDUSTRIAL AREAS SHALL BE PLATED CAST ALLOY, HEAVY DUTY, WEATHERPROOF, DUST PROOF, WITH GASKET, PLATED IRON ALLOY COVER AND STAINLESS STEEL COVER SCREWS, CROUSE—HINDS WAB SERIES
- D. CONDUIT OUTLET BODIES SHALL BE PLATED CAST ALLOY WITH SIMILAR GASKETED COVERS. OUTLET BODIES SHALL BE OF THE CONFIGURATION AND SIZE SUITABLE FOR THE APPLICATION. PROVIDE CROUSE—HINDS FORM 8 OR EQUAL.
- E. MANUFACTURER FOR BOXES AND COVERS SHALL BE HOFFMAN, SQUARE "D". CROUSE-HINDS, COOPER, ADALET, APPLETON, O-Z GEDNEY, RACO, OR APPROVED

SUPPLEMENTAL GROUNDING SYSTEM

- A. FURNISH AND INSTALL A SUPPLEMENTAL GROUNDING SYSTEM TO THE EXTENT INDICATED ON THE DRAWINGS, SUPPORT SYSTEM WITH NON-MAGNETIC STAINLESS STEEL CLIPS WITH RUBBER GROMMETS. GROUNDING CONNECTORS SHALL BE TINNED COPPER WIRE, SIZES AS INDICATED ON THE DRAWINGS. PROVIDE STRANDED OR SOLID BARE OR INSULATED CONDUCTORS EXCEPTED AS OTHERWISE NOTED.
- SUPPLEMENTAL GROUNDING SYSTEM: ALL CONNECTIONS TO BE MADE WITH CAD WELDS, EXCEPT AT EQUIPMENT USE LUGS OR OTHER AVAILABLE GROUNDING MEANS AS REQUIRED BY MANUFACTURER; AT GROUND BARS USE TWO HOLE SPADES WITH NO OX.
- C. STOLEN GROUND-BARS: IN THE EVENT OF STOLEN GROUND BARS, CONTACT SPRINT CM FOR REPLACEMENT INSTRUCTION USING THREADED ROD KITS.

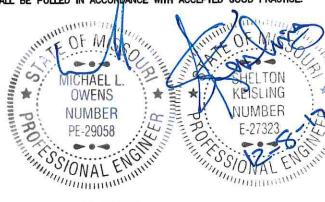
EXISTING STRUCTURE:

A. EXISTING EXPOSED WIRING AND ALL EXPOSED OUTLETS, RECEPTACLES, SWITCHES DEVICES, BOXES, AND OTHER EQUIPMENT THAT ARE NOT TO BE UTILIZED IN THE COMPLETED PROJECT SHALL BE REMOVED OR DE-ENERGIZED AND CAPPED IN THE WALL, CEILING, OR FLOOR SO THAT THEY ARE CONCEALED AND SAFE. WALL, CEILING, OR FLOOR SHALL BE PATCHED TO MATCH THE ADJACENT

CONDUIT AND CONDUCTOR INSTALLATION:

CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES 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 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

B. CONDUCTORS SHALL BE PULLED IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE.



SITE OWNER:



AMERICAN TOWER®

116 HUNTINGTON AVE. 11TH FLOOR BOSTON, MASSACHUSETTS 02116

- PLANS PREPARED FOR:

6580 Sprint Parkway Overland Park, Kansas 66251



- PLANS PREPARED BY: 9900 West 109th Street Suite 300 Overland Park, Kansas 66210



- ENGINEERING LICENSE: STATE OF MISSOURI

STATE CERTIFICATE OF AUTHORIZATION # EF-279

ENGINEER PE#: DISCIPLINE:

MLO MICHAEL L. OWENS KV KEVIN VANMAELE REJ ROBERT E JENSEN

TMS TERRANCE M. SUPER E-18521 SDK SHELTON D. KEISLING E-27323 ELECTRICAL

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11/30/17	HEE	A
12/07/17	DCP	0
		11/30/17 HEE 12/07/17 DCP

MLA SITE NAME & SITE NUMBER:

LEE S SUMMIT #1B 36075

APPLICANT SITE NAME & SITE CASCADE: -ATC#36075 LOWENSTEIN

KC25XC198

- SITE ADDRESS:

2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

- SHEET DESCRIPTION: -

SPECIFICATIONS

DCP

- DWG INFORMATION: -DRAWN BY: HEE

CHECKED BY:

- SHEET NUMBER: -

SP-2

Augment ID: KC25XC198N17.A RFDS ID: 121660

te Mentification		Contact Information		Location Details	
nu ade Alti Schedule ID	ataxitt.	Toringer Fruit	Annaham Contract or 1	iactude	m(x)
ATL Scheetisle (D)	(pitell)	Sprint Hanged &F Engineer	MA DYRIN	(arg tade	-01,5127
MA Schodule Name	#901deps	RF Engineer Grad	ecos kertegigrekters	Market	Leui
10		RF Singlement Phone	4(2)11100	Region	
RUDEM	Erlann ExC	AF Manager	Tri Arma	Oγ	Len Sand
Witch DEM Fith some Data	MARCHANT STREET	RP Manager Phono	and the substitute of the subs	State 2 p Code	No.
705 Bevision Date	237-11-12/22/07/2		Ison	Coursy	SEARNI Search
UDS Revision	1	Carrier Count			Leaven .
V V 2 : 14 114 201		PROTTE	1	Sector Count 23000 Hz	
Star Ara Yth Complete	rra:	1500 LTE 1000 LVUO	li –	1930Alls	
PDS - Issou Data	6/4/2011	1900 Voice	1	SCOOLITE .	5
lesign Status	Circhie	NOTE	-li-	accura.	-12
anter Aratysis Complete	AD .	900 Voice	li .	10	
rolect Description	National supposed the		1.00		
ncillary Cabinett Model		UE Retay Model Mhalai Munder		GPS Antenna Model	NAME OF TAXABLE PARTY.
lotel Number		Wright (thr.)		Welett libs!	
Volumi (Libs.)		Dimensions (In.)		Okusasions (In.)	_
descentions (in.)	_	UE Roby Admits		Manufacturer	
institute.		Marufacturer	1	GPS Antenna seeded at site	_
	-	LIP Reday CL Peright (metran)			
attery Backup Cabinet Mode	DOT TO THE REAL PROPERTY.	E-Miller Commence September 1		Megester Model	
	·				
lodel turnber		Ancillary Cabinet2 Model	LUN ESTE TO	Madel Humber	
Weight (Chr.)		Model Number		Weight (tha.)	
licsonkers (in.)		Weight (Lbs.)		Objectivions (In.)	
directions.		Dirensions (In.)	-	Manufacturer	
AND THE REST OF SERVICE SHAPE AND ADDRESS OF		Minufacturer		Constitution of the last of th	-
unction Box Model	THE RESERVE OF THE PARTY OF THE	Processing and the second		Growth Cabinet Model	STATE OF THE PARTY
Azdel Kurtber		ALU Top Hat Model	The same of the sa	Model Humber	
Weight (Libr.)		Madel Number		Wright (thu)	
Amendors (in.)		Wright (Ubs.)		Manufacturer	
		Dimensions (in.)		Petermen	-
aretion Bones (record at size		Manufacturer Top Hat Quantity		OTS #1 Model	
TS #2 Model		Long and extensive		Model Number	1
Addel Number		Power Protection Cabinat Mo	AND RESIDENCE OF THE PARTY OF T	Wright (i.ks.)	
Addel Number Veight (Lbs.)		Model Rusber	PATENT CATE	Directions (In.)	
Repensions (in.)		Wright (Us.)	01	Marufacturer	
structerium*		Direct ors (in)	G4.00 + 30.10 x 12.33	Number of \$15.91	
Deeder at site		Menufactions		X-000000000000000000000000000000000000	
		Power Protection Cabinet	1	1	
AL Drawing Requirements				•	
		33	-		
ide tional RJ Notes Special Co					
idd tional Ri Notes Special Co	nstruction Requirements				
dd Henal Ri Notes Special G	nstruction Requirements				
uld denai RF Notes Special Co	natrocion Requirements				
deitlenal Ri Notes Special Co	instruction Requirements				
	ns involven Requirements				
	nstruction Requirements				
uderdonal RF Notes Special C	nstruction large/rements	3			

/Islany	哲学智慧					RF Design S
Head: 2500	Alahu	Meta	Garana	Ditta	Texton	Zola
Radio Model	THE WAY	THE RESERVE TO SERVE THE PARTY OF THE PARTY	THE STATE OF			
Model Number	PRUS 62	RRUS 82	IUU3 12	14A	N/A	N/A
Wecht (bs)	62.1	62.1	621	NUA	NCA	N/A
Dimensions	23.81 x 15 x 3.97	23 81 x 15 x 6 87	22.61 x 15 x 4.07	H/A	NCA	NA.
Uanuladera	ERG	ERC	ERC:	IN/A	N/A	N/A
Number of RFBJs resided	1	1	1	0	0	0
ORU to Filter Jumper Make Med						
Model Number	IVA	N/A	N/A	N/A	N/A	NIA
Vingti (tri)	IVA	NA:	XA.	N/A	N/A	N/A
Dimensione	TUA	NA	N/A	N/A	NA	N/A
Manufactions	IVA	NA	NEA	AVA	16A	NA
RRU to Flor Jungor City	0	0	lo	0	0	0
REU to SpilmenTriple por Jumps	r Make Works	E E ESTONIA			HOW BY SHARE	2.0 mm/s 1000000000000000000000000000000000000
Ucrei Nortes	IVA	MA	NA	AVA	NA	BA
Wright (br)	N/A	R/A	INA	NA	N/A	fish.
Dissussing	N/A	HIA	NA .		N/A	N/A
Manufaction	N/A	NA	MA	N/A	N/A	IdA.
Hiru va Egilbo (Tepener Jerger Cir	a	0	u	o o	0	o
Wer Hadel						THE RESERVE
Mode: Number		N/A	NSA	HIA	NA	14/A
Weight (to)		1#A	NA.	MA	MIA	IVA
Dimensions	MA	NA	N/A	N/A	NA.	H'A.
Manufactive	NA	NA	PEA	N/A	NGA	N/A
Ther Model 2						
Model Number	NA	NIA.	MA	N/A	N/A	NA
Which (bt)		N/A	N/A	N/A	TRA .	N/A
Denenations		NA	NA		HUA	R'A
Mara di estano	IVA	NIA	NA	NUN	N/A	NIA
Filter Model 3						No. 100
Model Number		16A	H/A.	M/A	N/A	AVA.
Wantila	IEA	HA	MA	NA	NIA	N/A
Direntin		N/A	MA	NIA	NA AM	N/A
Newstealass	NRA ASK	NA	NEA	NO	NZA	N/A
Frank Cable 1		The second	3,524 1 - 0			5 10 10 10 10 10 10 10 10 10 10 10 10 10
Nicolci Jeundon	NA	NA	MIA	NA	N/A	NA
Www.fc.fila	NA	NIA	NA.	NA	MA	NA
Charge Con (b)	NA	MA	MAX.	NA	NA	NA
Manufacture	N/A	N/A	NA	A/A	THE SAME	NA.

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Bard: 1900	A/pha .	Ceta	Gamma	Octa	Epston	2rts
dia Madel	man and	70.2	THE REAL PROPERTY.	The same of the sa		THE STATE OF THE S
Markel Humber		RRIES 51	16 5038	164	N/A	N/A
Vielata (ho)		29.5	95	HA	N/A	N/A
	205411.5x103	205×11.5×105	205 : 11 / 10 / 10 / 10	NA	N/A	N/A
Merifecture		FRC	ERG	184	N/A	NA.
Skew ber of RHUs mended		1	11	0	n	ā .
IU to Filter Jumper Make/Mode	New York	Market Market Market		THE REAL PROPERTY.		
Model Microba		N/A	N/A	144	N/A	NA
Wells (but		NA	N/A	NA	NIA	IVA
Dinessions		NA	NO.	NA	NJA	H/A
Massfecture		NIA	NA	NA	NUA	N/A
RFIU in Film Junger Cly		0	0	0	0	0
tij to BelitletTriplexor Jumper	Make/Model					
Aleder Harmber		NGA	NA	N/A	RtA	HA
Windy (bs)		NIA	*KA	7UA	N/A	N/A:
Dimesion		MA	NA		N/A	N/A
Marchetter	rain.	NIA	NA	REA	NEA	NUA.
Manuficturer RATU to Science Artistic Coy	0	D	a	o	G	0
ter Model			No. of Concession, Name of Street, or other Persons, Name of Street, or ot	and the same of the same	V. Comment	C 7 / 1 / 1
Veta Hunter	NA	IN/A	N/A	144	ILA	TANK
(cot) arginity	HIA	N/A	NA	R/A	FEA	N/A
Diversors		NIA	N/A	N/A	PUA	N/A
Umsfettere	WA	NA	N/A	NA	NA	N/A
Ster Model 2						
Model Murricor	N/A	NSA.	160	NOA	N/A	IKA
Yieute (but	N/A	NIA	Mil	N/A	N/A	N/A
Dimensions	NA	NUA	NIA		N/A	N/A
Metaflettere	N/A	NIA	14/1	N/A	N/A	N/A
Mar Model 3	Section 1	HAVE HELD IN	COLUMN TAX DE RE			
Model Number	NA.	N'A	NA	N/A	N/A	N/A
Wedt (bu)	NA	NA	NA	N/A	NIA	14/A
Direttaces		N/A	INA	N/A	NA	H/A
Manufacturer	NA	NIA	HA	NO	N/A	N/A
runk Cable 1						
Markifficentes	1900 Hyarid ERC	1900 Hybrid ERC	1900 Hybrki ERG	NO.	N/A	NA
Welfclick	44	4.4	4,4	N/A	N/A	MA
Decreices (in)		3.4	14	N'A	NA	H/A
Verdezen		tric	ENG	NA	N/A	HW.

Report Date: 05/03/2017 Page 2 of 4

Band; 800	Alpha	Bola	Gamma	Delta	Esvilon	Zeta
Radio Model	A STATE OF THE PARTY OF THE PAR	COOL OF THE	H-10-	WWW.	Charles Land Ave.	Section -
Model Numbe	REGES 11	RRUS 11	RAUS 11	NOW	NIA	tva
Winght (los	50.7	50,7	60,7	IRA	NA	N/A
Dingelo	19.88 x 18.97 x 7.16	19.23 x 10.97 x 7.18	19:99 x 10:97 x 7:18	INA	NA	IPA
Manifocitate	ERC	ERG	SEC	18A	NA	NA
Harter of PRUs mode	1	1	1	0	0	0
RRU to Filter Jumper Make/Mor		THE REAL PROPERTY.	avant .	Property and the second		ESTRUMENT OF THE PERSON NAMED IN
Ahodel filumbe	N/A	NA	NA	HA	NA.	RA
Would for	NA.	MIA	NEA	N/A	NGA	16/A
Dinembra	NA AM	MIA	NA	N/A	MA	N/A
Mars/actors	H/A	MIA	tus	N/A	H'A	M/A.
PSIU to Files Acres of	a d	0	0	0	0	0
RRU to Splitter/Triplesor Jump	er Maka/Model					
Void Huntr	H/A	NA	N/A	N/A	NA.	N/A
Weight for	tua.	NVA	MA	NEA	NEA.	N/A
Dinerson	AUI	N/A	NA	1	NIA	N/A
Manufacture	NEA	NA.	NEA	N/A	H/A	H'A
RPU to Represent by the Co	a	0	a	0	0	0
Filter Model	C I E C C C C		XIDS TO THE	The same of the sa	NAME OF TAXABLE PARTY.	
Wodel Number	MA	NA	NA	14%	N/A	TRIA
Weight (b)	HIA	NA.	MA	NA	N/A	NO
Dineralor	e MIA	N/A	HIA	N/A	MA	N/A
Marufactus	N'A	NA	MA	N/A	NA	N/A
Filter Model 2	AND THE RESERVE		THE REAL PROPERTY.			
Vodei Hunte	NA.	NIA	N/A	RIA.	N'A	NA
Weight De	MA	NIA	PLA	NGA	rea	NA
Directable	4 14A	NIA	IVA		N/A	H/A
Mandedo	ANA.	RIA	727A	NEA	REA	N/A
Pitter Model 3				11/00/01		W 10 10 10 10 10 10 10 10 10 10 10 10 10
Modellinte	r HAA	HIA	WA	NA	NEA	1024
Weight (b)	NA.	AUA	NIA	MA	NIA	NEA
Umerers	WA AWA	NA	NA	NIA	NIA	N/A
Marcoche	N/A	N/A	HIA	N/A	NIA	NVA
Trunk Cable 1	Marin San San San San San San San San San Sa		Sein market		Plant In the	
Model Numb	N/A	NUA	HAY	N/A	18A	INA
wightin	: NEA	N/A	N/A	NA	N/A	N/A
Discontration	NIA	N/A	H/A	NA	NEA	N/A

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Report Date: 05/03/2017 Page 2 of 4

Band: 2500	Alpha	Beta	Carrena	Delta	Epillon	Zieta
Time Califol (Dy						
runk Cable 2	MARKET THE					
Alodd Marrien	N/A	N/A	rea.	NA	NÇA	N/A
YHAPA (Lts.)	WA.	NA	NA .	NA	N/A:	N/A
Elveniou (h)		N/A	N/A	N/A	N/A	NA
Handertare	WA	NA	N/A	NEA	NA	IVA
Torri Calin 2 Chy						
Frunk Cable 2	ALC: U					
Mulid Market	HA	IIIA.	HEA	YUA.	NA	MA
V16924(124.)	ITA	N/A	26/A	NOV	N/A	IVA
Direction (n.)	NA	N/A	rca .	PALA	NUA	N'A
Manufacture	PAA	N/A	THEN	THA	MAN	N/A
Truck Cable & City			1000	_11000		
Sottom Jumper Maka/Model			S SPACE III			
Model 18 prése	NA				170	days:
theight (thu)	N/A	PLA:	MA	NA.	MA.	NA
Chromism (bs)	NA	NIA	PAR.	NA.	NA	NA
Umilitare	H/A	N/A	MA	N/A	14A	NA
Wilden Jurger On	a	0	0	n	0	0
Main Bre Coan Make/Model	Se all and	The Part of the Pa	No. of Concession, Name of Street, or other		THE REPORT	
Bleaks Marrier	NEX	NIA	NEA	16A	NUA	IND
Wattobal		N/A	NA.	NA	NEA	INA
Observe Only	AVA	PUA	NEA	SA.	SUA	NIA
Sheuletain	ILA	HA	AVA	AA.	NA.	NIA
Make Care Care	a	o	p	n	q	0
Power Junction Cylinder Model				100 0000		
Model Marrie	N/A	N/A	NA	NUA	NGA	NA.
Wedthia)	H/A	WA.	NA	PUA	NIA	N/A
Wiscowya (In)		NZA	NA	NA	N/A	N/A
Necticine	H/A	NUA	NA	NA	HA	BLA .
Power Arridan Calinder Cay	0	0	c c	0	e	0
Optical Junction Cylinder City no	seded		THE RESERVE OF THE PERSON NAMED IN	1 1000	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN	The second second
Note Market		N/A	lura .	NIA	NA	N/A
Waste (Lba)		NCA.	N'A	NGA	NIA	N/A
Hierankers (In.)	144	N/A	WA.	N/A	NA	IKA
Manufacture		THE STATE OF THE S	WA.	PGA	HCA.	NIA
Cortical Journal on Co. Barba (Str. morror)						

- SITE OWNER:



AMERICAN TOWER®

116 HUNTINGTON AVE, 11TH FLOOR BOSTON, MASSACHUSETTS 02116

-PLANS PREPARED FOR:-

6580 Sprint Parkway





PLANS PREPARED BY:
9900 West 109th Street, Suite 300
Overland Park, Kansas 66210 Overland Park, Kansas 66210 Phone: 913-438-7700 Fax: 913-438-7777

- ENGINEERING LICENSE: -

STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER: PE#: DISCIPLINE:

TMS TERRANCE M. SUPER E-18521 ELECTRICAL SDK SHELTON D. KEISLING E-27323 ELECTRICAL

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MLA SITE NAME & SITE NUMBER:

LEE S SUMMIT #1B 36075

- APPLICANT SITE NAME & SITE CASCADE: -

ATC#36075 LOWENSTEIN KC25XC198

SITE ADDRESS:-

2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

- SHEET DESCRIPTION: -

DRAWN BY:

CHECKED BY:

RF DATA SHEET

DCP

- DWG INFORMATION: 7

Sand: 1820	Apta	Beta	Germa	Detra	Ession	Zeta
Fruit Gette 1 Cts						
Trunk Cable 2	CALL THE AGE	A STREET, SQUARE, SQUA			ALC: N	Children Street
Model/render		N/A	NA	N/A.	16A	NEA
Weight flan		NA.	NA	N/A	N/A	NA
Dimensione Dr.S	NA	N/A	NA	NA	NJA	NIA
Manufacaro	NA	RA.	NSA.	MA	NA.	769
Dunk Calls 1 Ch						
Trunk Cable 3						
Market Namber	N/A	NIA	WA.	N/A	NIA	N'A
Weight Cas I	SIA	N'A	YUA .	NA	NZA	NA.
Disservations (Bo.)	NA	NA	N/A .	MA.	N/A	NA
M araba and	NA.	MIX	V.A	NA	NA	NCA.
Insk Oble Stry	1000	1000	at date	The same		
Dettern Jumper Make/Model	N. St. St. St.	and the second		STATE OF THE	THE PERSONS	
Machil Heunber	IVA					
Weight Day J	IUA	N/A	PEA	NA.	MA	NEA
(Amy sizes (Da.)	H/A	NEA	NA.	NA.	Aug	MA
Standarder.	HIA.	NGA	NGA.	PEA	NA	NA
Bettery Jampar Dog	0	o	0	0	0	0
Main line Coas Make/Model	4		The second second	CALL THE RESERVE		400
Mark Freenics	14A	N/A	NIA	MA	NA	NA.
Wegnital	N/A	NA	N/A	946	NA	N/A
Diameters (h)	NA	N/A	N/A	ALA	NA	NEA
Verstaben	HIA	NO.	WA.	HA.	NA	NA.
Man bre chartife	9	o	Fi	lo .	0	0
Power Junction Cylinder Model			THE REAL PROPERTY.	The same of the sa		100-100
Marki Numles	ASS	N/A	HICA	PEA	NA	IN:A
Weight (Loss)		NA	rus	NA	NA	NIA
Quecepra (In)		N/A	NA	NA	NEA	NA
Variation	N/A	1CA	N/A	MA	NA	N/A
Proceedings (glinder Co)	e e	9	9	n	0	0
Optical Junction Cylinder City to		200		THE RESERVE		LINE LAND
Madd Nerdra	NA	NX	NIA	N/A	NA	N/A
We aft (Los.)		WA.	NA	WA .	WA	N/A
Dimer dane (In)		NEA	n/A	160	NA.	155
Vendacien		WA.	N/A	NA.	NA.	N'A
Option) Leading Cyceller Otypes Act		T .				



SSC

- PLANS PREPARED FOR: -

6580 Sprint Parkway Overland Park, Kansas 66251

AMERICAN TOWER® 116 HUNTINGTON AVE, 11TH FLOOR BOSTON, MASSACHUSETTS 02116

- SITE OWNER: -

PLANS PREPARED BY:
9900 West 109th Street, Suite 300
Overland Park, Kansas 66210 Overland Park, Kansas 66210 Phone: 913-438-7700 Fax: 913-438-7777

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ISSUED FOR REVIEW	11/30/17	HEE	A
ISSUED FOR CONSTRUCTION	12/07/17	DCP	0

MLA SITE NAME & SITE NUMBER:

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ATC#36075 LOWENSTEIN KC25XC198

- SITE ADDRESS: -

2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

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RF DATA SHEET

- DWG INFORMATION: - - SHEET NUMBER: -DRAWN BY: HEE CHECKED BY: DCP

RF-2

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Report Date: 05/03/2017 Page 3 of 4

Rand: 600	Alpha	Bets.	Gentral	Delta	Enston	Zeta
THATCHELON						
Trunk Cable 2				1		
Hadel Hawae	NA.	N/A	N/A	MA.	N/A	NA
Www.gaglas)	N/A	NIA	MA	HA	NA	64A
Decraim (1)		N/A	HIA	PUA	N/A	NA
Variations	N/A	N-A	14/A	MA	NIA	TAN
Trust Cards 2 Co.	1					
Trunk Cable 3						
Madel Buryes	NA	NA	PAIA	N/A	N/A	MA
We'ma Clin.		164	NA	WA.	HA.	NA
Strandon (11)		NAW.	PAN.	WA.	NEA	ELA
Verslaum	N/A	NA	PAYA	NA	ft/A	MA
Trink Carle 3 Co						
Botlem Jumper Make/Model			1000			
Almiel Herabit						
Wedellie	19A	N/A	N/A	N/A	MA	AWA
Door scm (1)	AIA	NA	V/A	NIA .	MEA	MAX.
Vier fature		N/A	NIA	NA .	N/A	NA
Bacom Aurope Co.	0	g .	9		0	a
Main Sne Coss Make/Model	No. of Concession,	Name and Address				23000
Manici Hembro		NW	HA.	EX	N/A	FAIA
the statum	NA	NA	NU	N/A	N/A	NA
Diener does (h.)	NA	N'A	*WA	ISA	N/A	MA
Varsfedme	NA	N/A	MA	NA	N/A	140
Atom In Courty	n	0	b	b	0	a
Power Junction Cylinder Model						THE STATE OF THE S
Manul firmbit		MAN.	N/A	N/A	NA	14/4
We'de (Ue)		NA.	NA	N/A	N/A	NA
Orrests in	NA	NA.	NA	N/A	NA.	MANA
Verstemen	NA	NA	N/A	ica .	R/A	NA
Personal and the College Co.	a	0	9	þ	0	0
Optical Junction Cylinder Qty n						
Macal Heavis	N/A	ISA.	N/A	Tex.	NEA	NA
ere gre Qte	N/A	18A	H/A	N/A	N/A	NA
Olmer.dene (fr.)		144	HIA	N/A	IVA	N/A
Verstetun	MA	144	1CA	CA.	H'A	N/A
Option Language Cylinder City are Sec						

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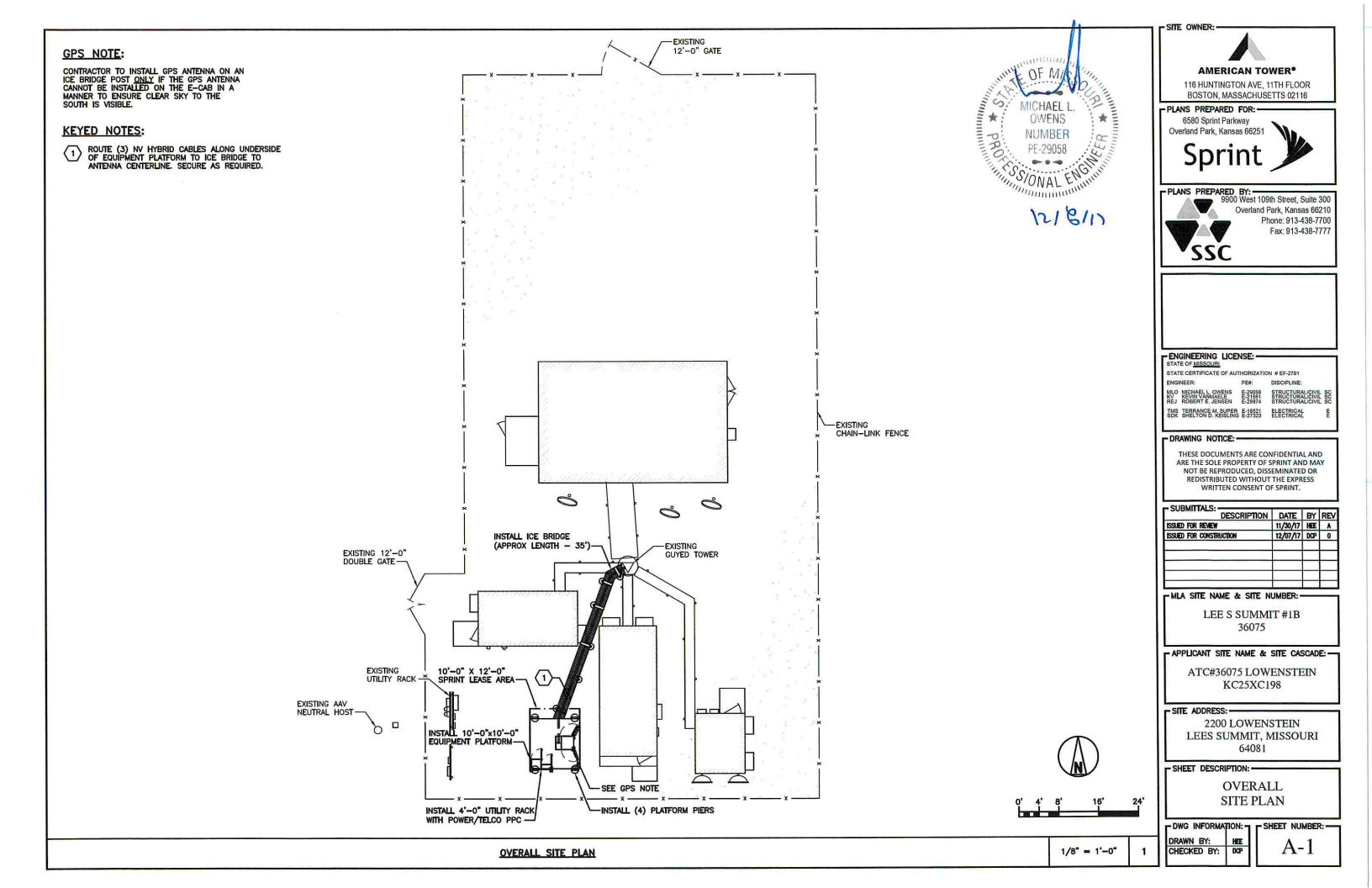
Grain Speinter son speint com Sprint Technologies

Report Date: 05/03/2017 Page 3 of 4

Vision									RF	Design :
Mand: 2500	Alson	Deta		Games		Deta	1	Emilian	1	Zeta
Antennat	THE PERSON	13 73 70 11	1900	CONTRACTOR OF THE PARTY OF THE	20	THE RESERVE TO SERVE THE PARTY OF THE PARTY	-	THE REAL PROPERTY.	CONTROL OF	S III
Variet Number	States or State grant as a sufferior to	ed //emanagedman	Service.	ANTENDER PROPERTY.	F 3#		1		T	
Wegt(t)	0	3		e		NEA	NA		N/A	
Cáramizor	0x0x0	0x9x0		Oxcas		N/A	NA		NIA	
Vandachen	-				_	RIA	MA		N/A	
Wit Top Jurges Maintifection 1949	26 lenger	1 2.5 Augus	11	25 Јигре	1	16/A 11	NA	10	ND	1 4
And 1 RF requested Distrator	MA	NA		N/A		NA	THA		N/A	
And 1 RF empresent Top Jurger Language	N/A	NIX		NA		NA	N/A		NVA	
Ankayer I Astroits	20	122		240		TVA	NEA		N/A	
Advent Maturo 601	D .	g		0		74A	NIA		N/A	
Antonia I Currer Line (10	12/0	160		160		18A	NICA		IVA	
Antenna I Electrical DT	5	4		3		NA	NA		NIA	
Antoren I Finance I DT 2	N/A	NA	NA			rea	AW		PHA	
Askame I (fexical DT II	HIS.	tida .		NEA		NA.	NA		nia.	
Anteresa † Tirrat	NA	HAT.		NA		NA	NA		ANT	
Antanna2						SHAPE WALL	1111			
Makel II enter										-
WolyH (Ex	NIA	H/A		N'A		NA	N/A		NºA.	
Discoulers	MA	NA		NA		SCA	N/A		M/A	
Verefactors	MA	R'A		HZA		NA	NIA		NA	
Net2 Top Arrow Make More City	NA C	N/A	I a	NA.	Þ	165	N/A	2	WA	14
And 2 RF Top Jumper Clauselet	M/X	NA		NIA		NIA	NA	1/4	NIA	
And 2 RF Top Jumper Length (1)	NA	NA		MZA		NA	NA		NIA	
Advesse 2 Artesuity	NA	N/A		NA		NA.	N/A		MA.	
Actorise 2 Machinisti OT	NA.	NA		NA.		N/A	NA.		NIA	
Antonno 2 Contor Lius (fil)	NA	NIA		N/A		NOA	MA		FEA	
Ansens 2 Estates UT	HIA	NA		ASI		NA	N.S.		ANA	
Arlema 2 Eschial DT 2	N/A	NIA		NEA		NEA	MA		ILA	
Anterna 2 Festival D7 h	Han	NA		NOW	П	MA	WA		MA	
Arthurese 2 Thirst	KIK	N/A		NA		H/A	AUA		N/A	

		-			r	
Rand: (/2)	Apha	Rete	Quant	Delta	Epsilon	Zate
Articises 1			TIDX-6516D3-A1M	CHECK PRINT	THE REAL PROPERTY.	15 3440
	LDX-051600-A1M	LDX-6610DS-A1M	10.3	NUA	N/A	NA.
WHITE	101.6 x 10 0 x 6.2	101.5 x 10.6 x 5.2	101.5 x 10.8 x 5.2	MA	N/A	N/A
	ConviSapa	CosmSoon	CommScope	NA.	N'A	NA.
WDetchwish word on the		conscourse 12	(C)/1900 James 1 =	10A 1 =	MA 16	54 I
Ant 1 RF requested Diamoter	McZ Sec 1900 Taitho.	N/A	NA	NUA I	NA I	N/A
And 1 HF convented Top surpour			1407			
Length(ff)	NA.	N/A:	rea.	IPA	NIA	N/A
Asterna 1 Aziruda	50	120	240	NA	NGA	N/A
Antaresa 1 Mechanical DT	3	3	3	H/A	MA	NA
Astonna 1 Corner Line (fi)	120	160	100	WA.	N-A	NA.
Avinna 1 Dentini 07	5	8	2	NA	N/A	MA
Antorea 1 Elephical 072	NA	MA	NA:	NAA ASSI	NA	MA
Asturne 1 Electrical DT 3	IVA	MA	N/A	R/A	MA	H2A
Attrives 1 Twist	NA	NA	NIA	NA	N/A	N/A
Antennat			"CONTRACTOR	THE HELDER		
Matel North						
Weight (to)		NO	NA	NA.	NIA	N/A
Cheritae		NIA	40A	MIN	NIA	N/A
Manufacture	18A	N/A	NA	M/A	NA	
Int2 Top Across Males Node City	100	NIA 2	NA d	N/A I	NIA II	NA
Ani I PF Top Jumper Diameter	NIA	HA	NA	NUA	N/A	N/A
Ast 2 HF Ten Jumper Langingti	N/A	TEA	HA	NIA	NA	NA
Artenno 2 Arenalis	NA	RIA	N.A	NUA	NGA.	NA
Antonna 2 Mochanisa DT	HIA	144	MA	NA	N/A	NA
Axierra: 2 Cente: Line (1)	HIA	NA	MA	N/A	REA:	NA:
Antorna 2 Electrical DT	NA	ILIA	N/A	N/A	YEA	N'A
Antonio I Contribut DT 2	NSA.	NA	NA	N/A	NA.	NA
	DEA.	NIA	N/A	N/A	PCA.	RW.
Artern 2 Test	1925	NIA.	N/A	N/A	NA	16A

Report Nam 04222017 Page 4 of 4

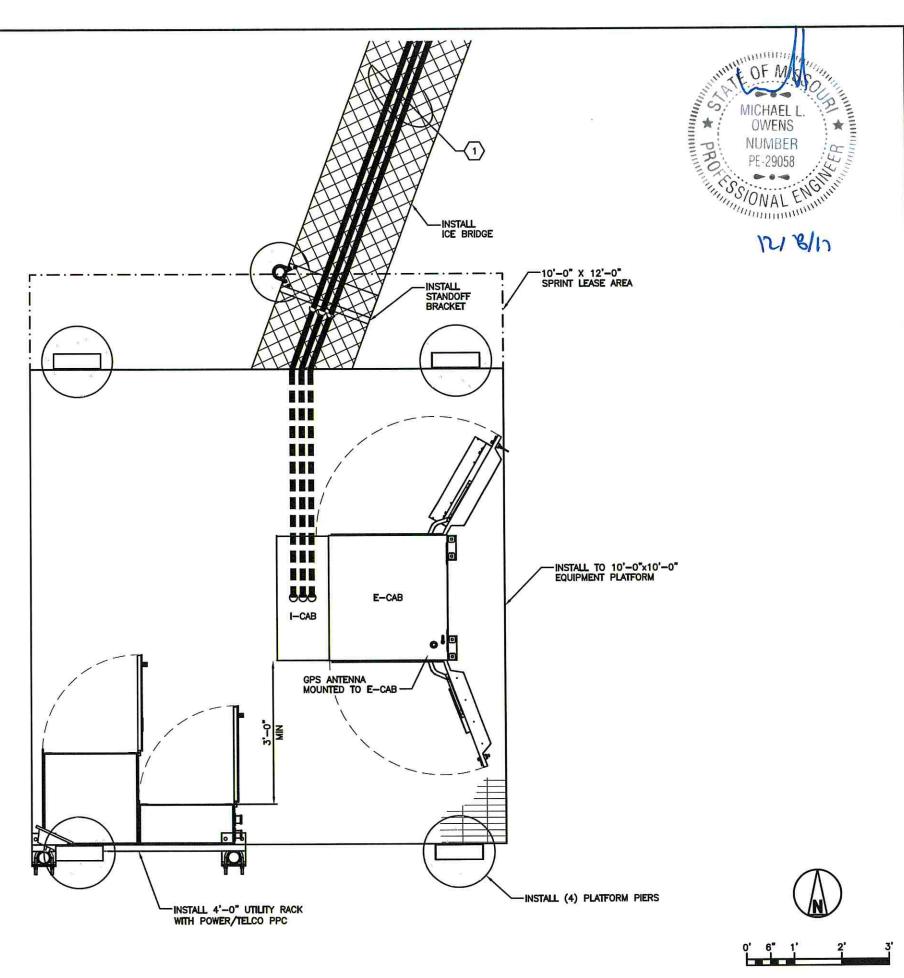


CONDUIT NOTE:

SEE SHEET E-1 FOR CONDUIT ROUTING

KEYED NOTES:

ROUTE (3) NV HYBRID CABLES ALONG UNDERSIDE OF EQUIPMENT PLATFORM TO ICE BRIDGE TO ANTENNA CENTERLINE. SECURE AS REQUIRED.



SITE OWNER:



AMERICAN TOWER®

116 HUNTINGTON AVE, 11TH FLOOR BOSTON, MASSACHUSETTS 02116

- PLANS PREPARED FOR: -

6580 Sprint Parkway Overland Park, Kansas 66251



PLANS PREPARED BY:
9900 West 109th Street, Suite 300

SSC

Overland Park, Kansas 66210 Phone: 913-438-7700 Fax: 913-438-7777

DISCIPLINE:

ENGINEERING LICENSE: -

STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER: PE#:

TMS TERRANCE M. SUPER E-18521 ELECTRICAL SDK SHELTON D. KEISLING E-27323 ELECTRICAL

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	11/30/17	11/30/17 HEE 12/07/17 DCP

MLA SITE NAME & SITE NUMBER:

LEE S SUMMIT #1B 36075

- APPLICANT SITE NAME & SITE CASCADE: -

ATC#36075 LOWENSTEIN KC25XC198

- SITE ADDRESS: -

2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

- SHEET DESCRIPTION: -

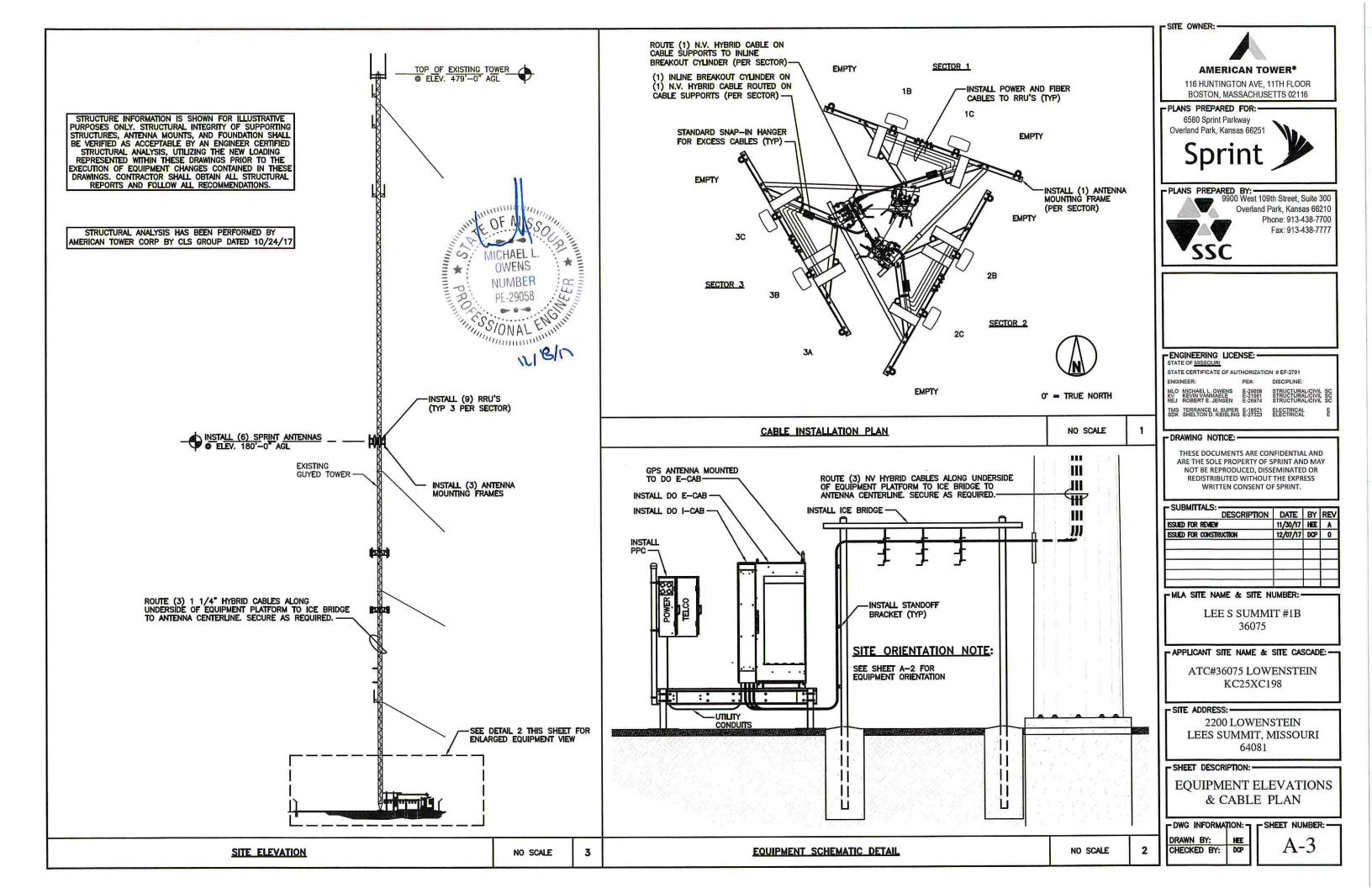
EQUIPMENT PLAN

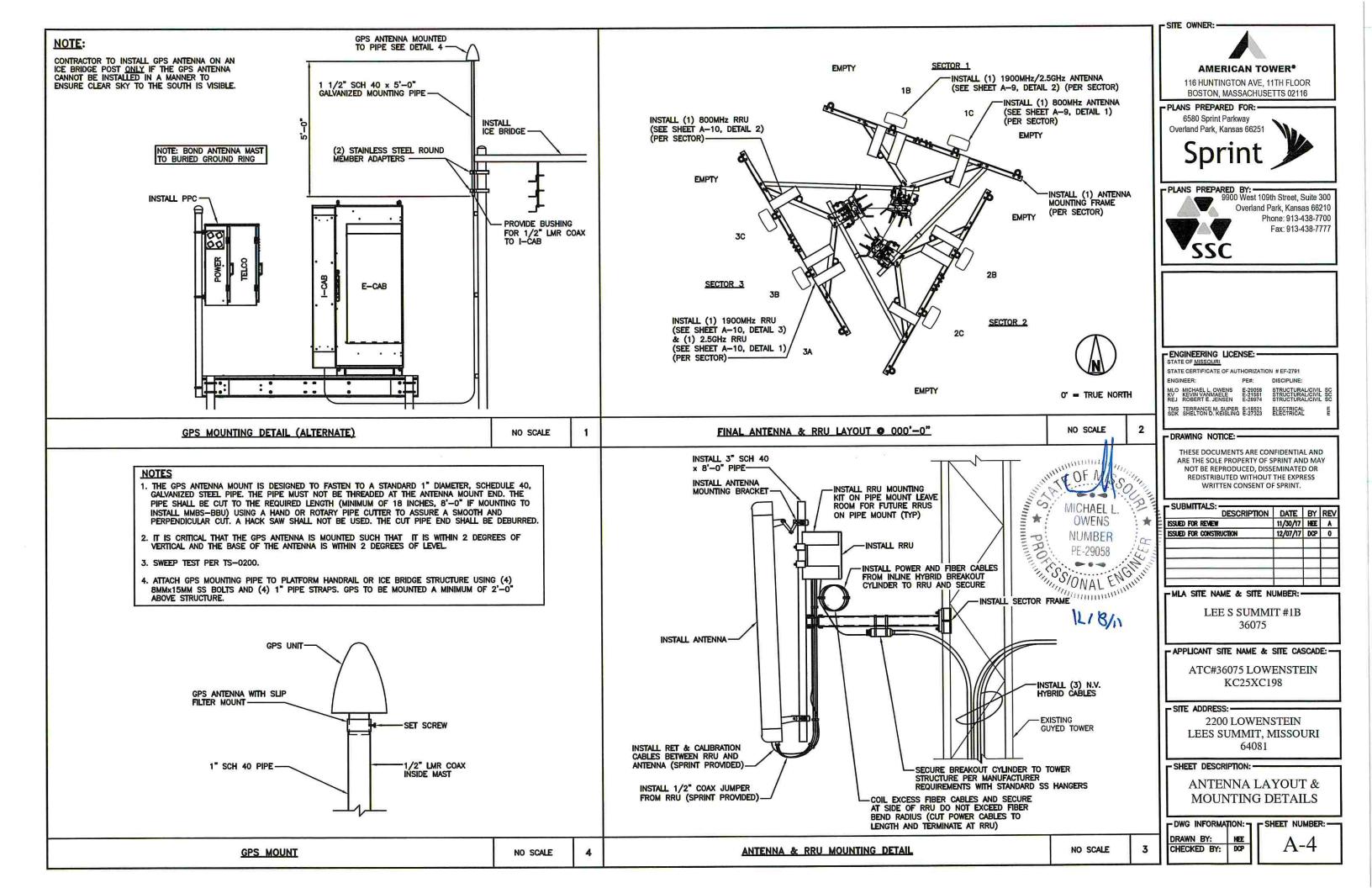
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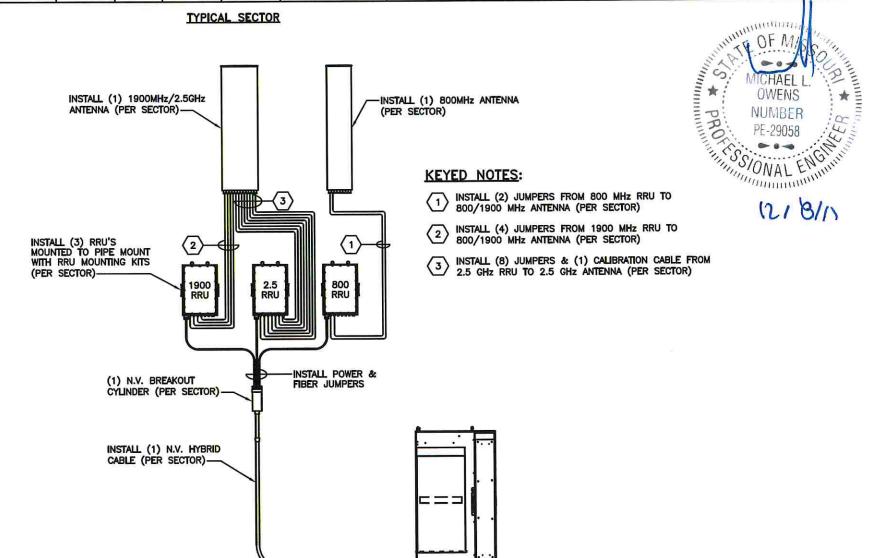
1" = 1'-0"

EQUIPMENT PLAN





						ANTENNA	SCHED	JLE						
SECTOR	ANTENNA MODEL NUMBER	ANTENNA MANUFACTURER	HYBRID CABLES	AZIMUTH	RAD CENTER	ELECT D-TILT	MECH D-TILT	RRU MODEL NUMBER	RRU MANUFACTURER	FILTER MODEL # (IF NEEDED)	FILTER MANUFACTURER	JUMPER SIZE	JUMPER QTY	JUMPER LENGTH
1A	EMPTY	_		-	=	=	-	·-			-		-	96
1B	HHT465B-PF-2XR	COMMSCOPE	(1) N.V. HYBRID CABLE	20*	180'-0"	0,	0°	RRU 31 RRU 82	ERICSSON ERICSSON	-	-	1/2"	- 4 - 8	15'-0" 15'-0"
1C	LDX-6516DS-VTM	COMMSCOPE	SHARED WITH N.V. HYBRID CABLE	20°	180'-0"	3°	0*	RRUS-11	ERICSSON	_	-	1/2"	2	15'-0"
1D	EMPTY	=		-	=	Ā	_	_	_	-	-	-	(-	=
2A	EMPTY	_	-	-	-	-		_	-	; - :	-	:= :	-	-
	INETACED DE OVO	00111100000	(1) MIV HYPPID CAPLE	120°	100' 0"	0.	0*	RRU 31	ERICSSON	-		1/2"	4	15'-0"
2B	HHT465B-PF-2XR	COMMSCOPE	(1) N.V. HYBRID CABLE	120	180'-0"	U	U	RRU 82	ERICSSON	100		1/2"	8	15'-0"
2C	LDX-6516DS-VTM	COMMSCOPE	SHARED WITH N.V. HYBRID CABLE	120°	180'-0"	3°	o	RRUS-11	ERICSSON	1 1	—	1/2"	2	15'-0"
2D	EMPTY	=	-	_	-	-	_	-	-	=	(=	-	_	-
3A	EMPTY	-	-	_	7=1	1	_	_	-	(=	-	-	-	_
0.000		VENEY SUUSSESSAMS	(2) (1) (1)				-	RRU 31	ERICSSON	<u> </u>	-	1/2"	4	15'-0"
3B	HHT465B-PF-2XR	COMMSCOPE	(1) N.V. HYBRID CABLE	240°	180'-0"	O.	0,	RRU 82	ERICSSON	-	-	1/2"	8	15'-0"
3C	LDX-6516DS-VTM	COMMSCOPE	SHARED WITH N.V. HYBRID CABLE	240*	180'-0"	3*	σ	RRUS-11	ERICSSON	(-	-	1/2"	2	15'-0"
3D	EMPTY	_	_	K —	-	_		-	=	.=		_	-	_



SITE OWNER:



AMERICAN TOWER®

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STRUCTURAL/CIVIL SC STRUCTURAL/CIVIL SC STRUCTURAL/CIVIL SC TMS TERRANCE M. SUPER E-18521 ELECTRICAL SDK SHELTON D. KEISLING E-27323 ELECTRICAL

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KC25XC198

- SITE ADDRESS:

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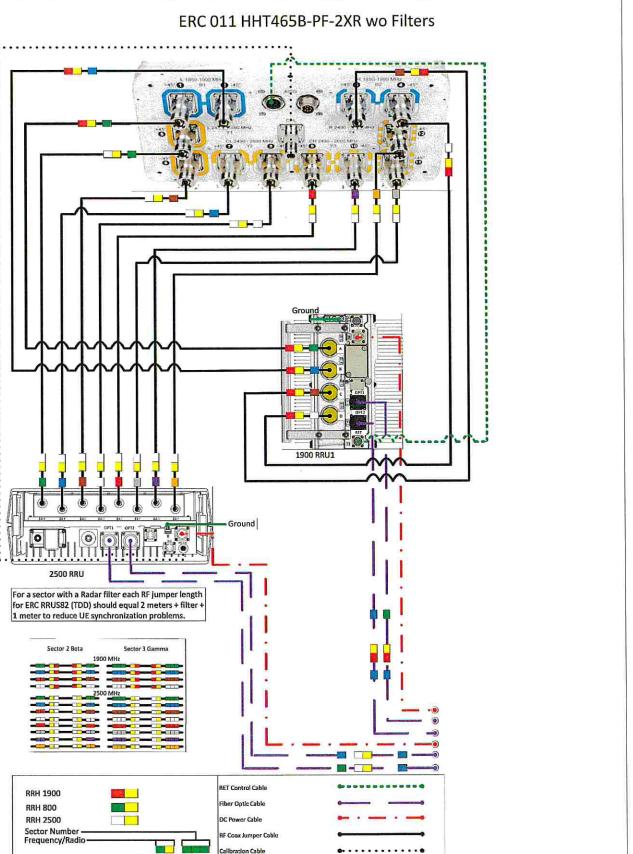
- SHEET DESCRIPTION: -

ANTENNA SCHEDULE & EQUIPMENT INFORMATION

DWG INFORMATION: -

DRAWN BY: HEE CHECKED BY: DCP

Prepared By Revision Number Revision Date Sprint > Mark Elliott December 1, 2017 Approved By Approval Date RAN Hardware & Antenna Teams Final-Macro Generated ERC 011 HHT465B-PF-2XR wo Filters



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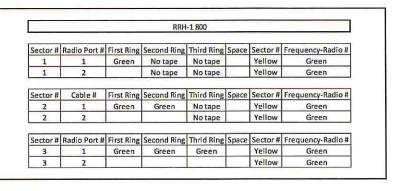
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RFDS PLUMBING DIAGRAM

DWG INFORMA	ION:
DRAWN BY:	HEE
CHECKED BY:	DCP

N: 7 - SHEET NUMBER: -

A-5.2



			RRH	-2 800	-		
Sector #	Radio Port#	First Ring	Second Ring	Third Ring	Space	Sector #	Frequency-Radio #
1	1	Green	No tape	No tape		Yellow	Orange
1	2		No tape	No tape		Yellow	Orange
Sector#	Radio Port#	First Ring	Second Ring	Third Ring	Space	Sector #	Frequency-Radio #
2	1	Green	Green	No tape		Yellow	Orange
2	2			No tape		Yellow	Orange
							7
Sector#	Radio Port #	First Ring	Second Ring	Thrid Ring	Space	Sector#	Frequency-Radio #
3	1	Green	Green	Green		Yellow	Orange
3	2					Yellow	Orange

PROTECTION * PROTECTION	MICHAEL L. OWENS NUMBER PE-29058	MINION STATE OF STATE
	1518	In

			RRH-	1 1900			
Sector#	Radio Port #	First Ring	Second Ring	Third Ring	Space	Sector#	Frequency-Radio #
1	1	Green	No tape	No tape		Yellow	Red
1	2		No tape	No tape		Yellow	Red
1	3	Brown	No tape	No tape		Yellow	Red
1	4	White	No tape	No tape		Yellow	Red
C	Radio Port #	Ciast Diag	Canada Nasa	Third Diam	C	Sector#	Frequency-Radio
		-			Share	100.000.00.000.000.000	The state of the s
2	1	Green	Green	No tape		Yellow	Red
2	2		_	No tape		Yellow	Red
2	3	Brown	Brown	No tape		Yellow	Red
2	4	White	White	No tape		Yellow	Red
Sector#	Radio Port #	First Ring	Second Ring	Thrid Ring	Space	Sector #	Frequency-Radio
3	1	Green	Green	Green	-	Yellow	Red
3	2					Yellow	Red
3	3	Brown	Brown	Brown		Yellow	Red
3	4	White	White	White		Yellow	Red

			RRH-	2 1900			
Sector#	Radio Port #	First Ring	Second Ring	Third Ring	Space	Sector#	Frequency-Radio
1	1	Green	No tape	No tape	1	Yellow	Brown
1	2		No tape	No tape		Yellow	Brown
1	3	Brown	No tape	No tape		Yellow	Brown
1	4	White	No tape	No tape		Yellow	Brown
Sector#	Radio Port#	First Ring	Second Ring	Third Ring	Space	Sector#	Frequency-Radio
2	1	Green	Green	No tape		Yellow	Brown
2	2			No tape		Yellow	Brown
2	3	Brown	Brown	No tape		Yellow	Brown
2	4	White	White	No tape		Yellow	Brown
Sector #	Radio Port #	First Ring	Second Ring	Thrid Ring	Space	Sector#	Frequency-Radio
3	1	Green	Green	Green		Yellow	Brown
3	2					Yellow	Brown
3	3	Brown	Brown	Brown		Yellow	Brown
3	4	White	White	White		Yellow	Brown

			RRH-	3 1900		_	
Sector#	Radio Port #	First Ring	Second Ring	Third Ring	Space	Sector#	Frequency-Radio#
1	1	Green	No tape	No tape		Yellow	
1	2		No tape	No tape		Yellow	
1	3	Brown	No tape	No tape		Yellow	
1	4	White	No tape	No tape		Yellow	
						""	
Sector#	Radio Port #	First Ring	Second Ring	Third Ring	Space	Sector#	Frequency-Radio #
2	1	Green	Green	No tape		Yellow	
2	2			No tape		Yellow	
2	3	Brown	Brown	No tape		Yellow	
2	4	White	White	No tape		Yellow	
Sector#	Radio Port #	First Ring	Second Ring	Thrid Ring	Space	Sector#	Frequency-Radio #
3	1	Green	Green	Green		Yellow	
3	2					Yellow	
3	3	Brown	Brown	Brown		Yellow	
3	4	White	White	White		Yellow	

Sector#	Radio Port il	First Ring	Second Ring	Third Ring	Space	Sector#	Frequency-Radio#
1	1	Green	No tape	No tape		Yellow	White
1	2		No tape	No tape		Yellow	White
1	3	Brown	No tape	No tape		Yellow	White
1	4	White	No tape	No tape		Yellow	White
1	5	Red	No tape	No tape		Yellow	White
1	6	Gray	No tape	No tape		Yellow	White
1	7		No tape	No tape		Yellow	White
1	8	Orange	No tape	No tape		Yellow	White
Sector#	Radio Port #	First Ring	Second Ring	Third Ring	Space	Sector#	Frequency-Radio #
2	1	Green	Green	No tape		Yellow	White
2	2			No tape		Yellow	White
2	3	Brown	Brown	No tape		Yellow	White
2	4	White	White	No tape		Yellow	White
2	5	Red	Red	No tape		Yellow	White
2	6	Gray	Gray	No tape		Yellow	White
2	7			No tape		Yellow	White
2	8	Orange	Orange	No tape		Yellow	White
Sector#	Radio Port #	First Ring	Second Ring	Thrid Ring	Space	Sector#	Frequency-Radio #
3	-1	Green	Green	Green		Yellow	White
3	2					Yellow	White
3	3	Brown	Brown	Brown		Yellow	White
3	4	White	White	White		Yellow	White
3	5	Red	Red	Red		Yellow	White
3	6	Gray	Gray	Gray		Yellow	White
3	7					Yellow	White
3	8	Orange	Orange	Orange		Yellow	White

Sector#	Radio Port #	First Ring	Second Ring	Third Ring	Space	Sector#	Frequency-Radio I
1	1	Green	No tape	No tape		Yellow	
1	2		No tape	No tape		Yellow	
1	3	Brown	No tape	No tape		Yellow	
1	4	White	No tape	No tape		Yellow	
1	5	Red	No tape	No tape		Yellow	
1	6	Gray	No tape	No tape		Yellow	
1	7		No tape	No tape		Yellow	
1	8	Orange	No tape	No tape		Yellow	
Sector#	Radio Port #	First Ring	Second Ring	Third Ring	Space	Sector#	Frequency-Radio
2	1	Green	Green	No tape		Yellow	
2	2			No tape		Yellow	
2	3	Brown	Brown	No tape		Yellow	
2	4	White	White	No tape		Yellow	
2	5	Red	Red	No tape		Yellow	
2	6	Gray	Gray	No tape		Yellow	
2	7			No tape		Yellow	
2	8	Orange	Orange	No tape		Yellow	
			V	//		37	
Sector#	Radio Port #	First Ring	Second Ring	Thrid Ring	Space	Sector#	Frequency-Radio
3	1	Green	Green	Green		Yellow	
3	2					Yellow	
3	3	Brown	Brown	Brown		Yellow	
3	4	White	White	White		Yellow	
3	5	Red	Red	Red		Yellow	
3	6	Gray	Gray	Gray		Yellow	
3	7					Yellow	
3	8	Orange	Orange	Orange		Yellow	

			RRH-	3 2500			
C	Radio Port #	First Diag	Second Ring	Third Ding	Snace	Sector #	Frequency-Radio #
Sector#	1	Green	No tape	No tape	Space	Yellow	Gray
1	2	Green	No tape	No tape		Yellow	Gray
1	3	Brown	No tape	No tape		Yellow	Gray
1	4	White	No tape	No tape		Yellow	Gray
1	5	Red	No tape	No tape		Yellow	Gray
1	6	Gray	No tape	No tape		Yellow	Gray
1	7	Citay	No tape	No tape		Yellow	Gray
1	8	Orange	No tape	No tape		Yellow	Gray
1	0	Orange	NO tape	I Hu tape		10,10,11	3.47
Sector#	Radio Port #	First Ring	Second Ring	Third Ring	Space	Sector#	Frequency-Radio #
2	1	Green	Green	No tape		Yellow	Gray
2	2			No tape		Yellow	Gray
2	3	Brown	Brown	No tape		Yellow	Gray
2	4	White	White	No tape		Yellow	Gray
2	5	Red	Red	No tape		Yellow	Gray
2	6	Gray	Gray	No tape		Yellow	Gray
2	7			No tape		Yellow	Gray
2	8	Orange	Orange	No tape		Yellow	Gray
		le: . n:	le d nt	The state of the	Te	Control #	Frequency-Radio #
			Green	Green	Space	Yellow	Gray
3	2	Green	Green	Green	-	Yellow	Gray
3	3	Danisia	Brown	Brown	-	Yellow	Gray
	4	Brown				Yellow	Gray
3		White	White	White	-	Yellow	
3	5	Red	Red	Red	-	Yellow	Gray
3	6	Gray	Gray	Gray	-	Yellow	Gray
3	7 8	Orange	Orange	Orange	-	Yellow	Gray Gray



AMERICAN TOWER®

116 HUNTINGTON AVE, 11TH FLOOR BOSTON, MASSACHUSETTS 02116

- PLANS PREPARED FOR: -

6580 Sprint Parkway Overland Park, Kansas 66251



PLANS PREPARED BY:
9900 West 109th Street, Suite 300
Overland Park, Kansas 66210

SSC

Overland Park, Kansas 66210 Phone: 913-438-7700 Fax: 913-438-7777

FINGINEERING LICENSE: -

STATE CERTIFICATE OF AUTHORIZATION # EF-2791 ENGINEER: PE#: DISCIPLINE:

TMS TERRANCE M. SUPER E-18521 ELECTRICAL SDK SHELTON D. KEISLING E-27323 ELECTRICAL

- DRAWING NOTICE: -

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11/30/17	HEE	A
12/07/17	DCP	0
	11/30/17	DATE BY 11/30/17 HEE 12/07/17 DCP

MLA SITE NAME & SITE NUMBER:-

LEE S SUMMIT #1B 36075

- APPLICANT SITE NAME & SITE CASCADE: -

ATC#36075 LOWENSTEIN KC25XC198

- SITE ADDRESS: -

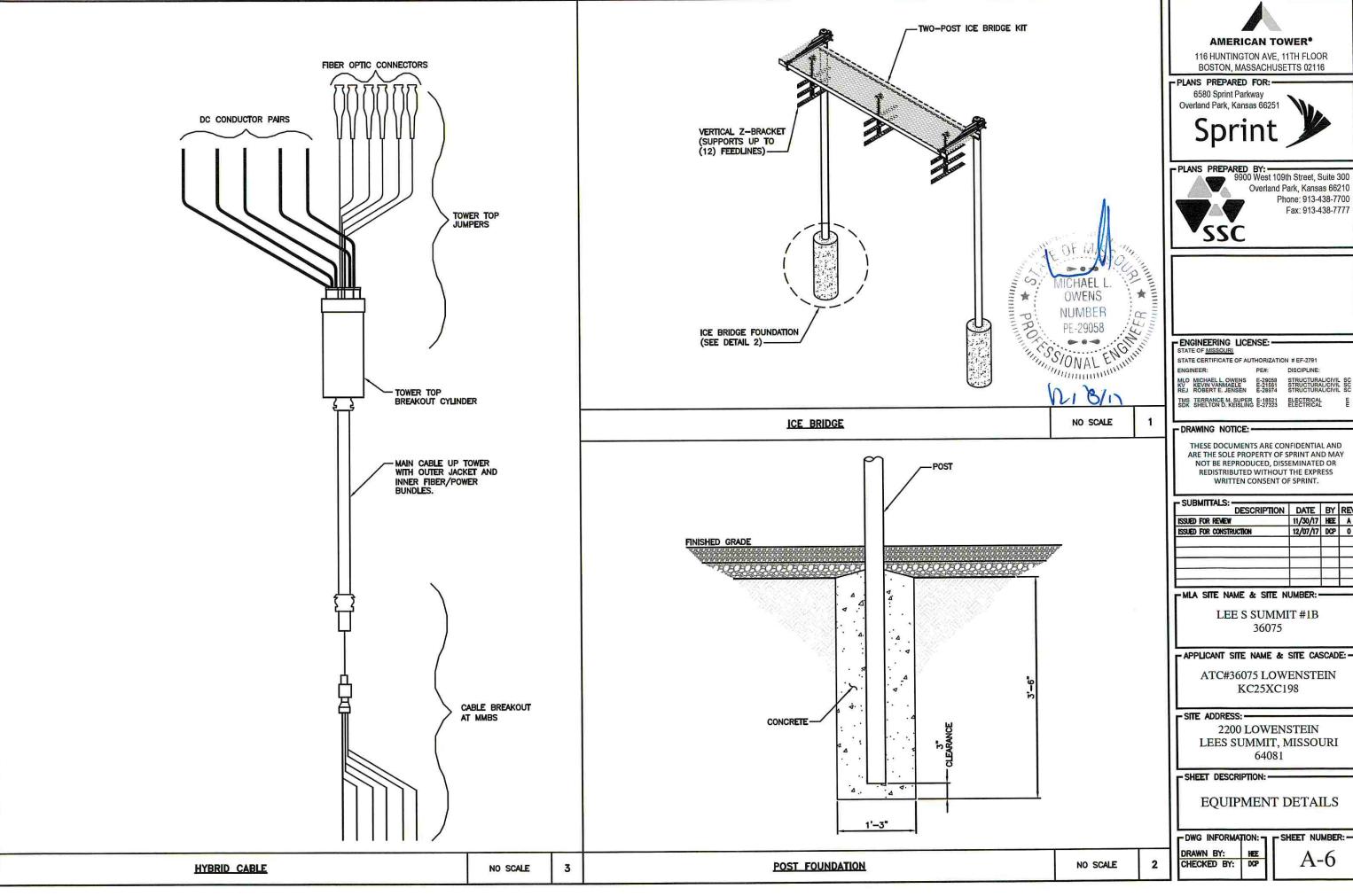
2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

- SHEET DESCRIPTION: -

FEEDLINE COLOR CODING

DWG INFORMATION: - SHEET NUMBER: -

DRAWN BY: HEE CHECKED BY: DCP



- SITE OWNER: -



BOSTON, MASSACHUSETTS 02116



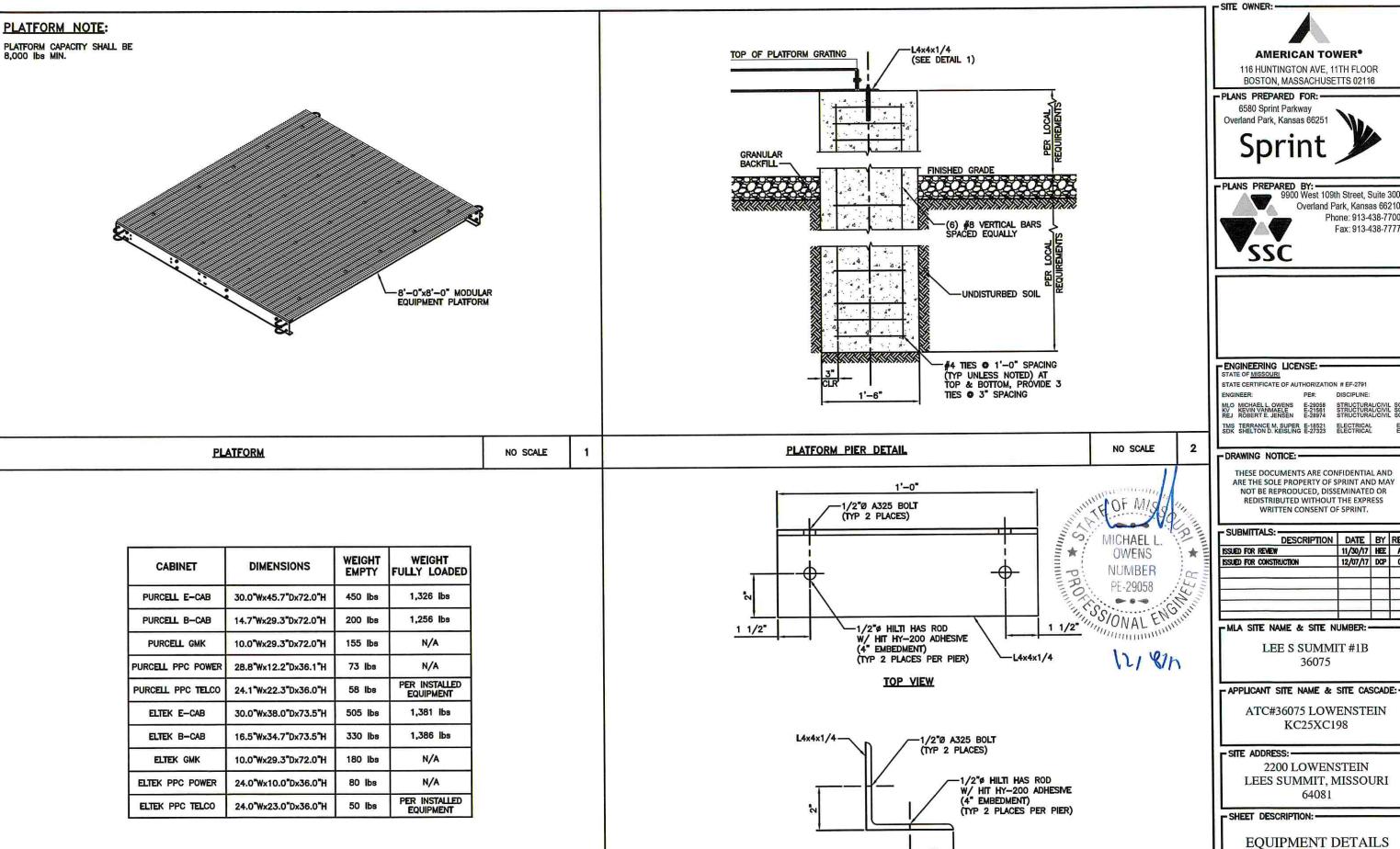
Overland Park, Kansas 66210 Phone: 913-438-7700 Fax: 913-438-7777

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12/07/17	DCP	0
	11/30/17	DATE BY 11/30/17 HEE 12/07/17 DCP

LEES SUMMIT, MISSOURI

EQUIPMENT DETAILS



NO SCALE

PLATFORM EQUIPMENT LOADING

AMERICAN TOWER®

116 HUNTINGTON AVE, 11TH FLOOR BOSTON, MASSACHUSETTS 02116

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6580 Sprint Parkway Overland Park, Kansas 66251



- PLANS PREPARED BY:



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ENGINEERING LICENSE: -

STATE CERTIFICATE OF AUTHORIZATION # EF-2791 DISCIPLINE PF#

ELECTRICAL ELECTRICAL

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LEE S SUMMIT #1B 36075

ATC#36075 LOWENSTEIN KC25XC198

- SITE ADDRESS:

2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

- SHEET DESCRIPTION: -

EQUIPMENT DETAILS

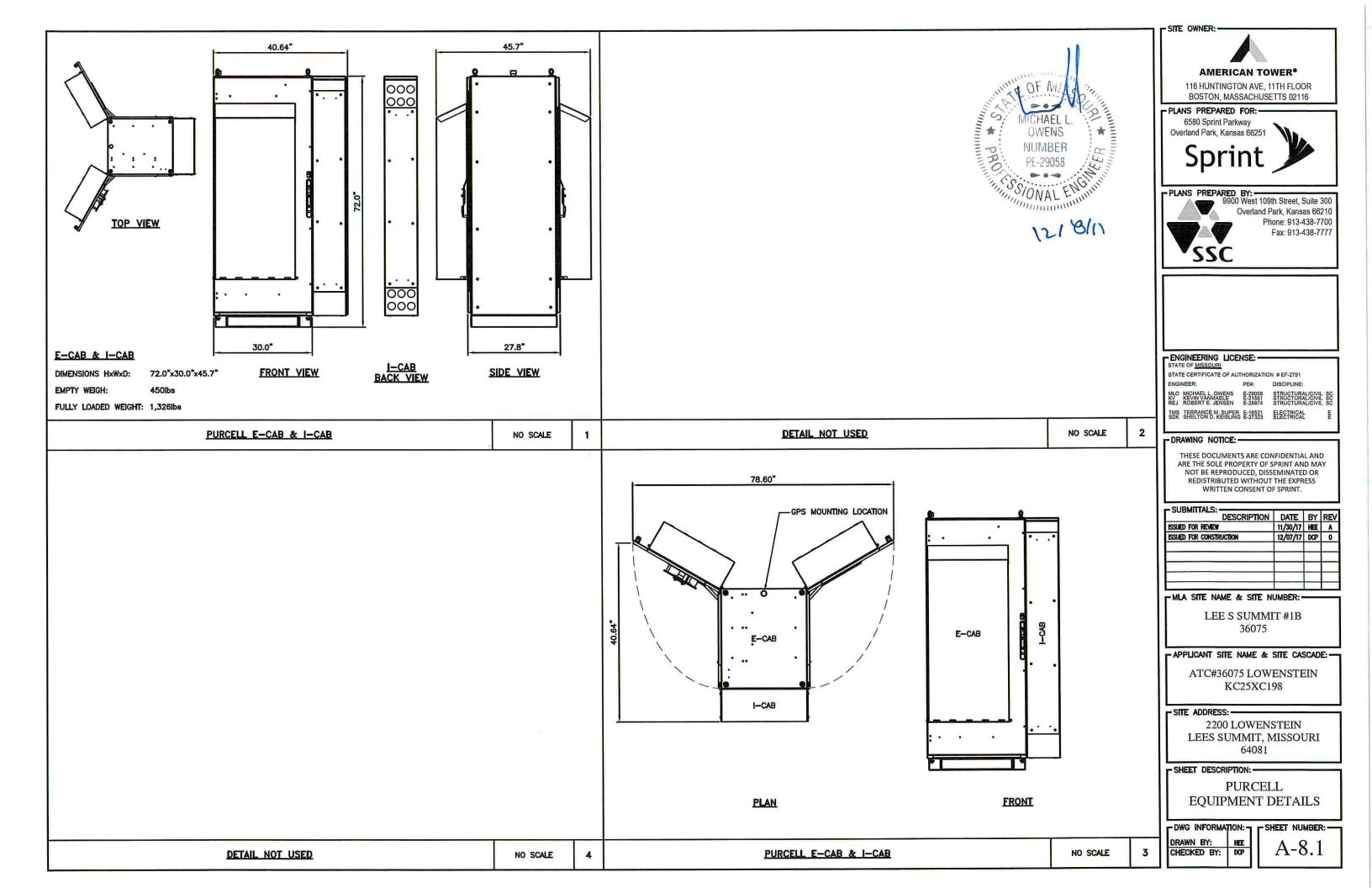
- DWG INFORMATION: 7

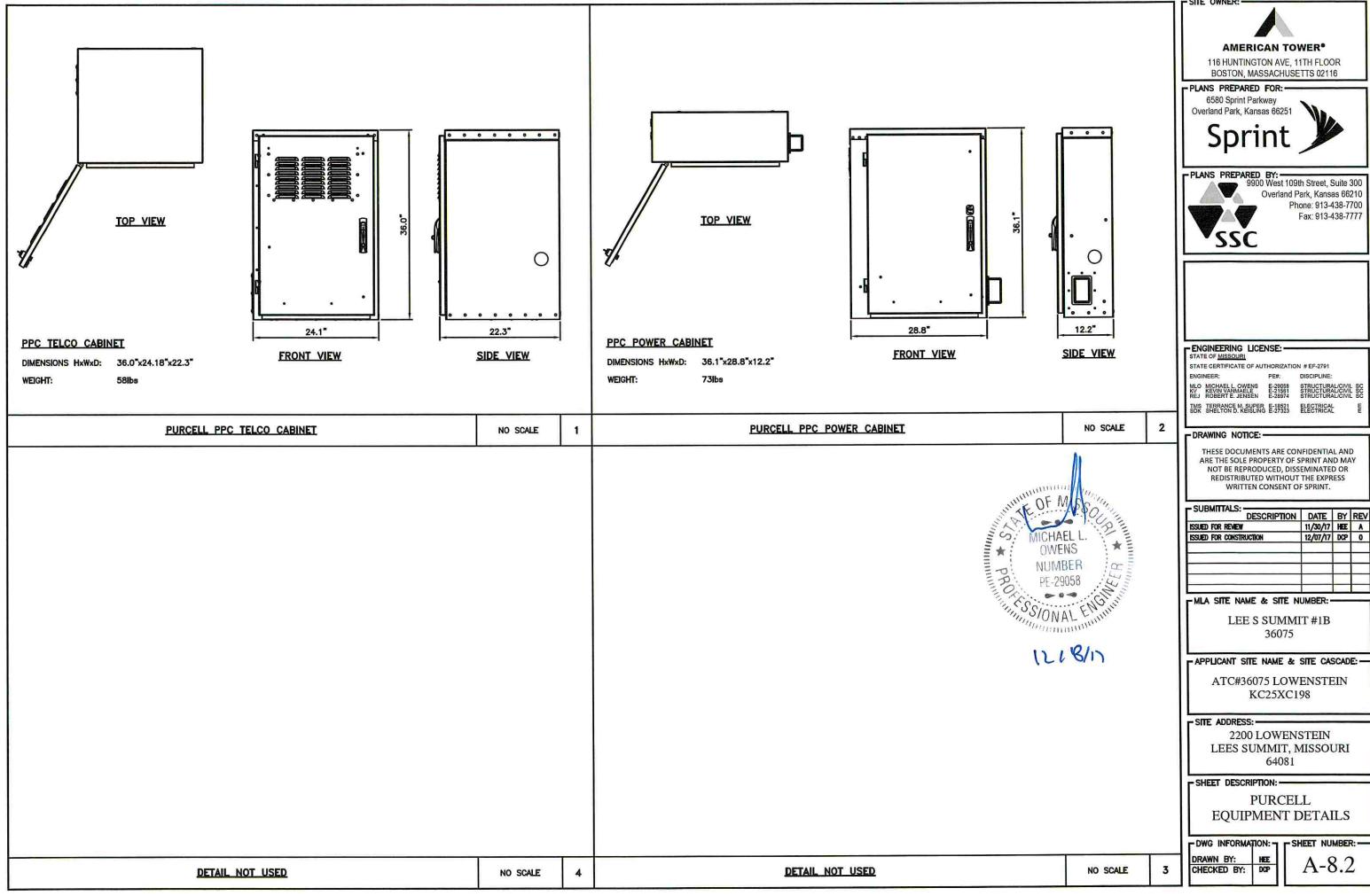
NO SCALE

SIDE VIEW

PLATFORM CONNECTION ANGLE

DRAWN BY: CHECKED BY:





- SITE OWNER:

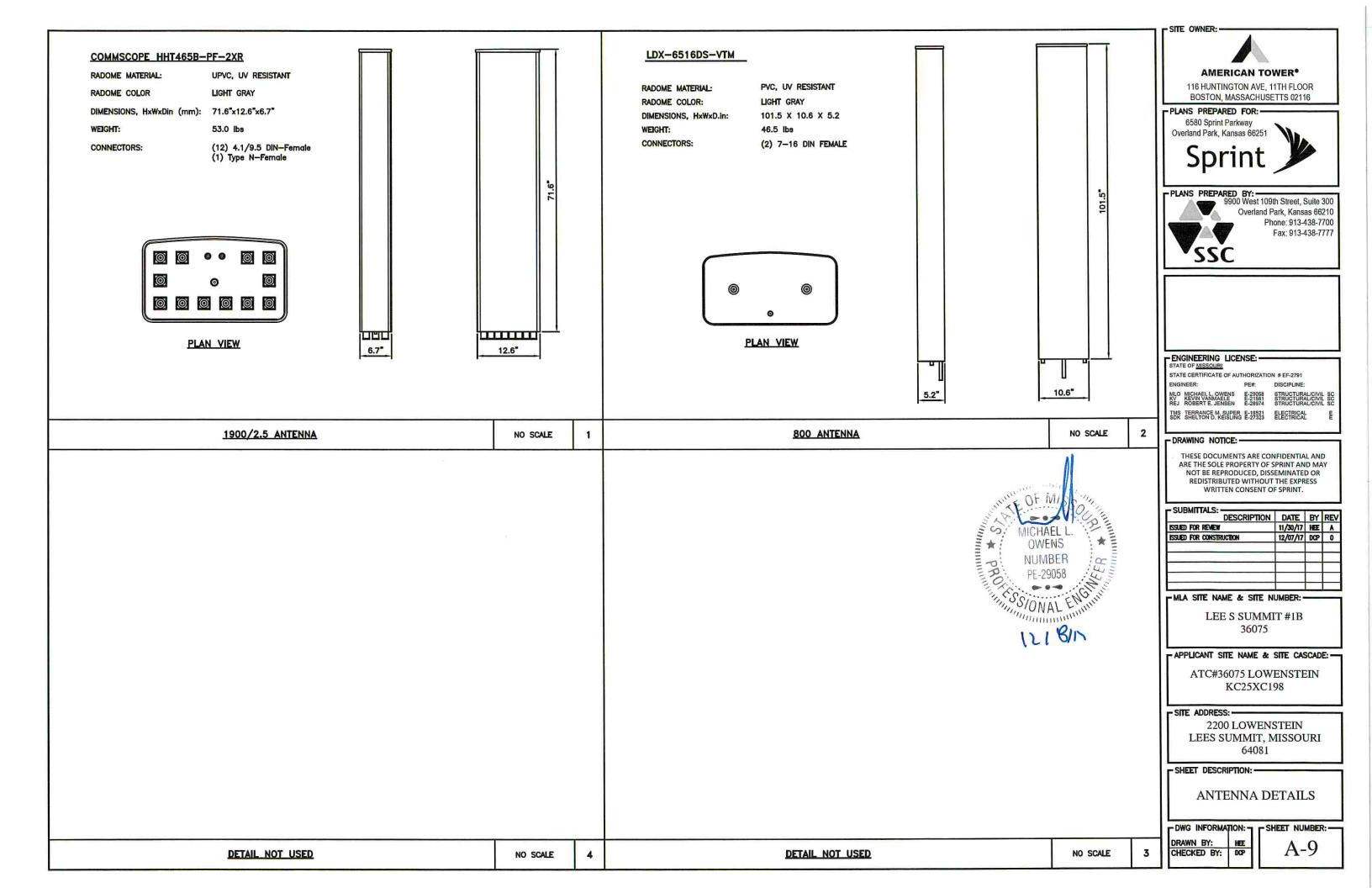
Overland Park, Kansas 66210 Phone: 913-438-7700 Fax: 913-438-7777

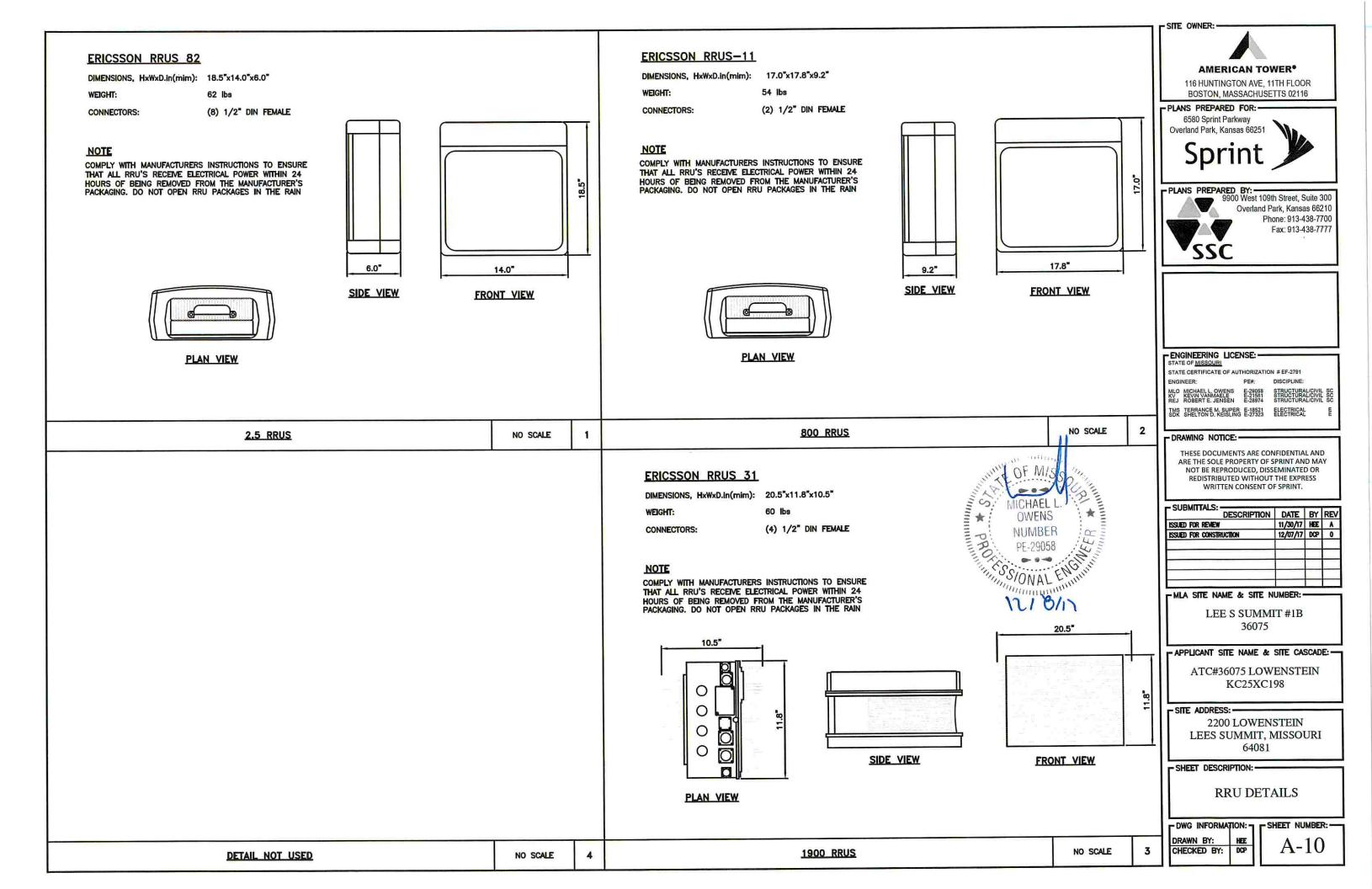
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LEES SUMMIT, MISSOURI

EQUIPMENT DETAILS



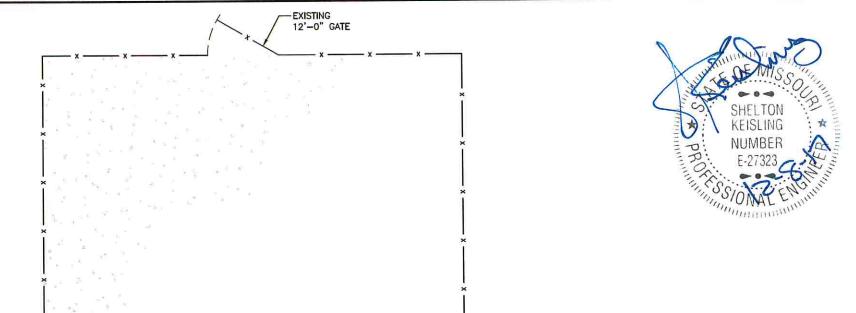


TELCO NOTE:

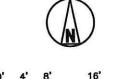
- 1. RUN MULTIMODE FIBER FROM E-CAB, THRU THE INNERCONNECT "TRANSITION" CABINET AND ON TO THE AAV NEUTRAL HOST LOCATION WITHOUT INTERMEDIATE TERMINATIONS. AT INNERCONNECT "TRANSITION" CABINET COIL 3'-0' CABLE AND
- AT PPC AND METER RACK TURN 4" SPARE UTILITY CONDUIT UP 6" ABOVE NODE AND PROVIDE CAP.

KEYED NOTES:

- STUB-UP ACTIVE CONDUIT TO WITHIN 1'-0" OF METER SOCKET. COIL 3'-0" SPARE CONDUCTOR. TAPE WRAP ENDS AND PROTECT CABLE FROM WEATHER. UTILITY WILL MAKE ALL CABLE CONNECTIONS AND ENERGIZE SITE.
- SERIVCE LATERAL TO GANG METER SOCKET 6
 (1) 4" CONDUIT: 3#3/0, 1#2G
 (1) 4" CONDUIT: SPARE
- AT NEUTRAL HOST CONNECT TO EXISTING PVC STUB-UP PULL FIBER AND LEAVE 3'-0" SPARE INSIDE ENCLOSURE.



EXISTING
CHAIN-LINK FENCE



1/8" = 1'-0"

SITE OWNER:



AMERICAN TOWER®

116 HUNTINGTON AVE, 11TH FLOOR BOSTON, MASSACHUSETTS 02116

PLANS PREPARED FOR:

6580 Sprint Parkway

Overland Park, Kansas 66251

- PLANS PREPARED BY: -

SSC

9900 West 109th Street, Suite 300 Overland Park, Kansas 66210 Phone: 913-438-7700 Fax: 913-438-7777

ENGINEERING LICENSE: -

STATE CERTIFICATE OF AUTHORIZATION # EF-2791 PE#: DISCIPLINE:

TMS TERRANCE M. SUPER E-18521 ELECTRICAL SDK SHELTON D. KEISLING E-27323 ELECTRICAL

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		_	_

- MLA SITE NAME & SITE NUMBER: -

LEE S SUMMIT #1B 36075

- APPLICANT SITE NAME & SITE CASCADE: -

ATC#36075 LOWENSTEIN KC25XC198

- SITE ADDRESS: -

2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

- SHEET DESCRIPTION: -

OVERALL UTILITY PLAN

DWG INFORMATION: DRAWN BY:

CHECKED BY:

- SHEET NUMBER: -

Ġ

EXISTING 12'-0"

EXISTING UTILITY RACK

EXISTING AAV

NEUTRAL HOST -

W/ EXISTING MÉTER CENTER

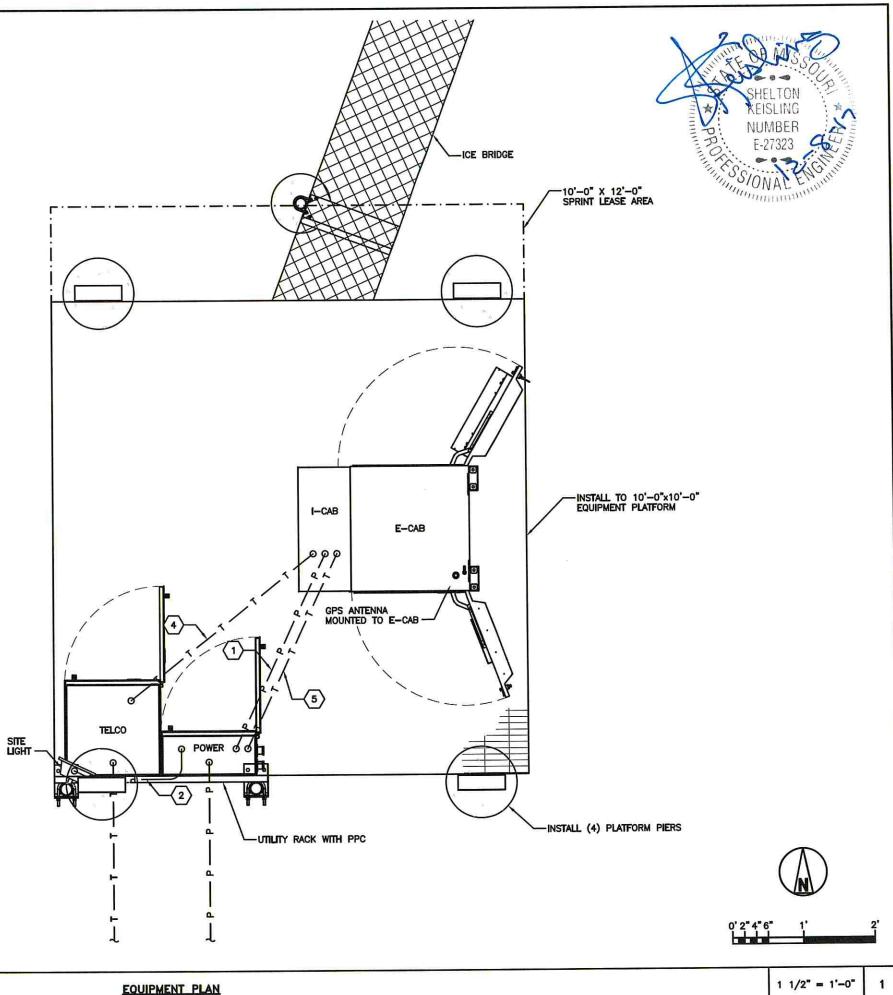
DOUBLE GATE -

-EXISTING

-SEE SHEET E-2 FOR ENLARGED UTILITY PLAN

GUYED TOWER

OVERALL UTILITY PLAN



KEYED NOTES:

1 AC POWER FOR E-CAB 3#2, 1#2G, 1/2"C

FIBER BACKHAUL 1" CONDUIT WITH FACTORY FABRICATED MULTIMODE FIBER AS REQUIRED BY MANUFACTURER

(5) ALARMS 1" CONDUIT, 4PR 24GA CATSE

2 3#12, 3/4°C TO SITE LIGHT

SITE OWNER:



AMERICAN TOWER®

116 HUNTINGTON AVE, 11TH FLOOR BOSTON, MASSACHUSETTS 02116

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Fax: 913-438-7777

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ATC#36075 LOWENSTEIN KC25XC198

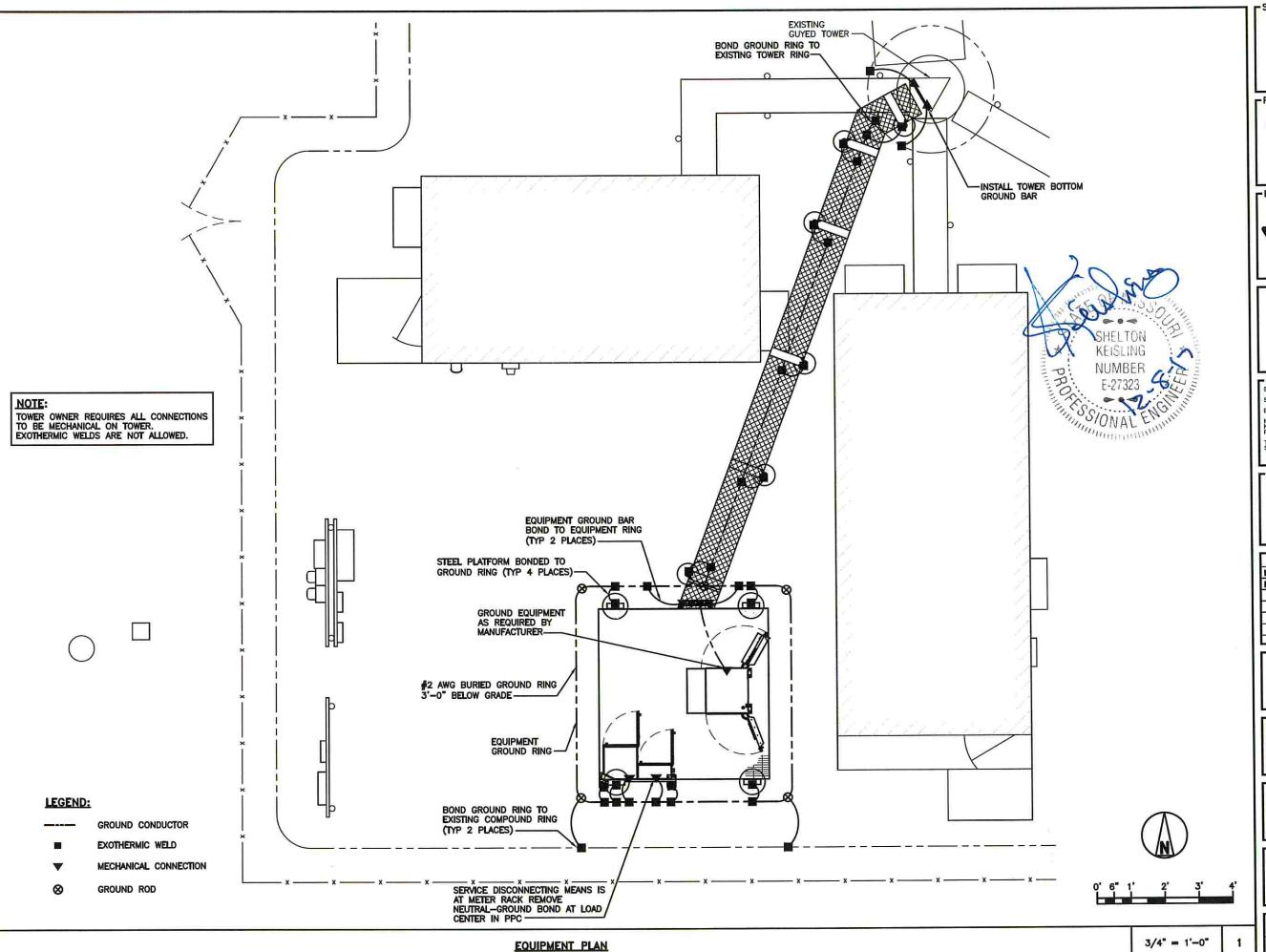
2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

- SHEET DESCRIPTION: -

ENLARGED UTILITY PLAN

- SHEET NUMBER:

CHECKED BY:



SITE OWNER:



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ELECTRICAL

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2/07/17	DCP	0

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2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

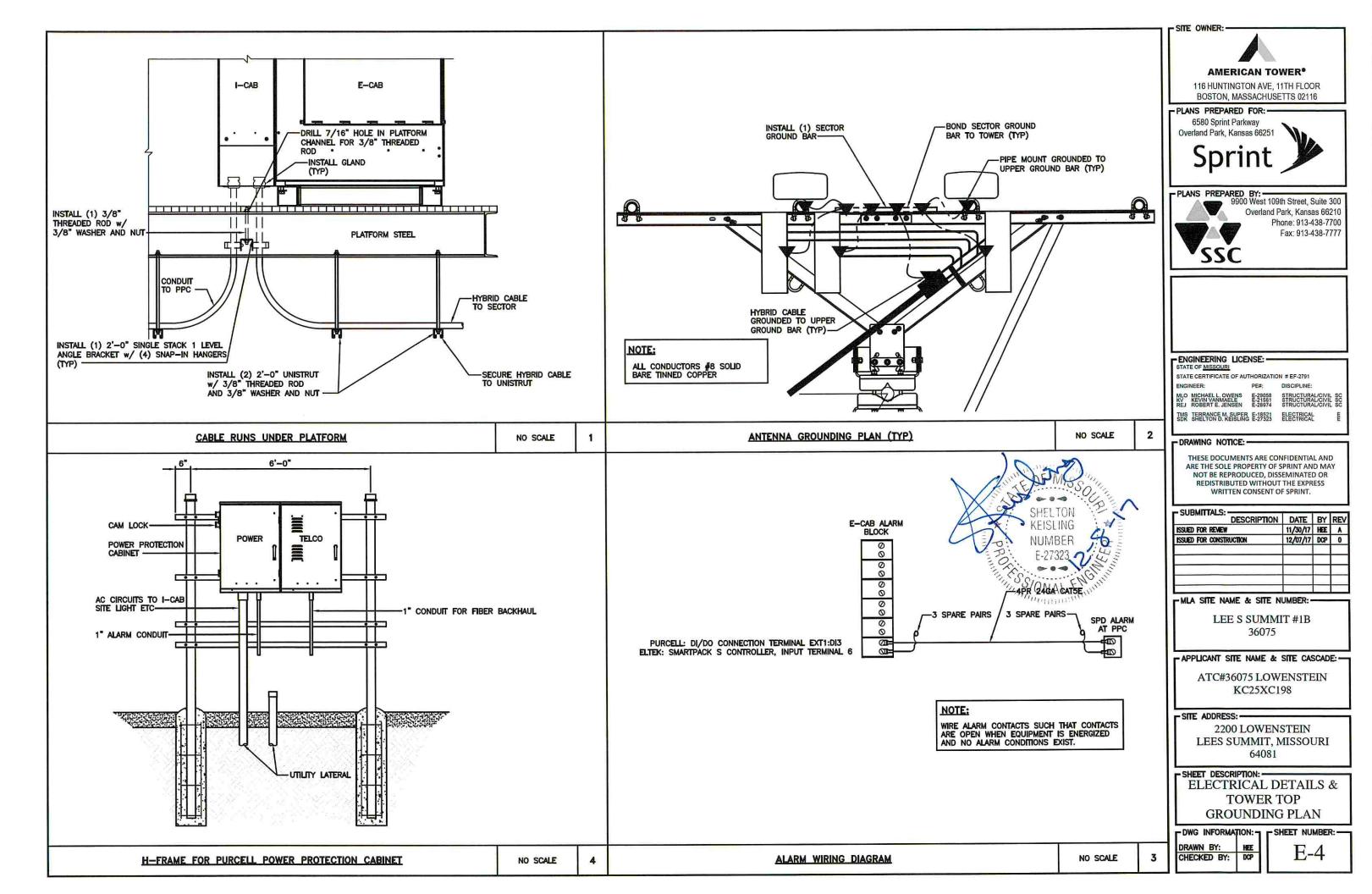
- SHEET DESCRIPTION: -

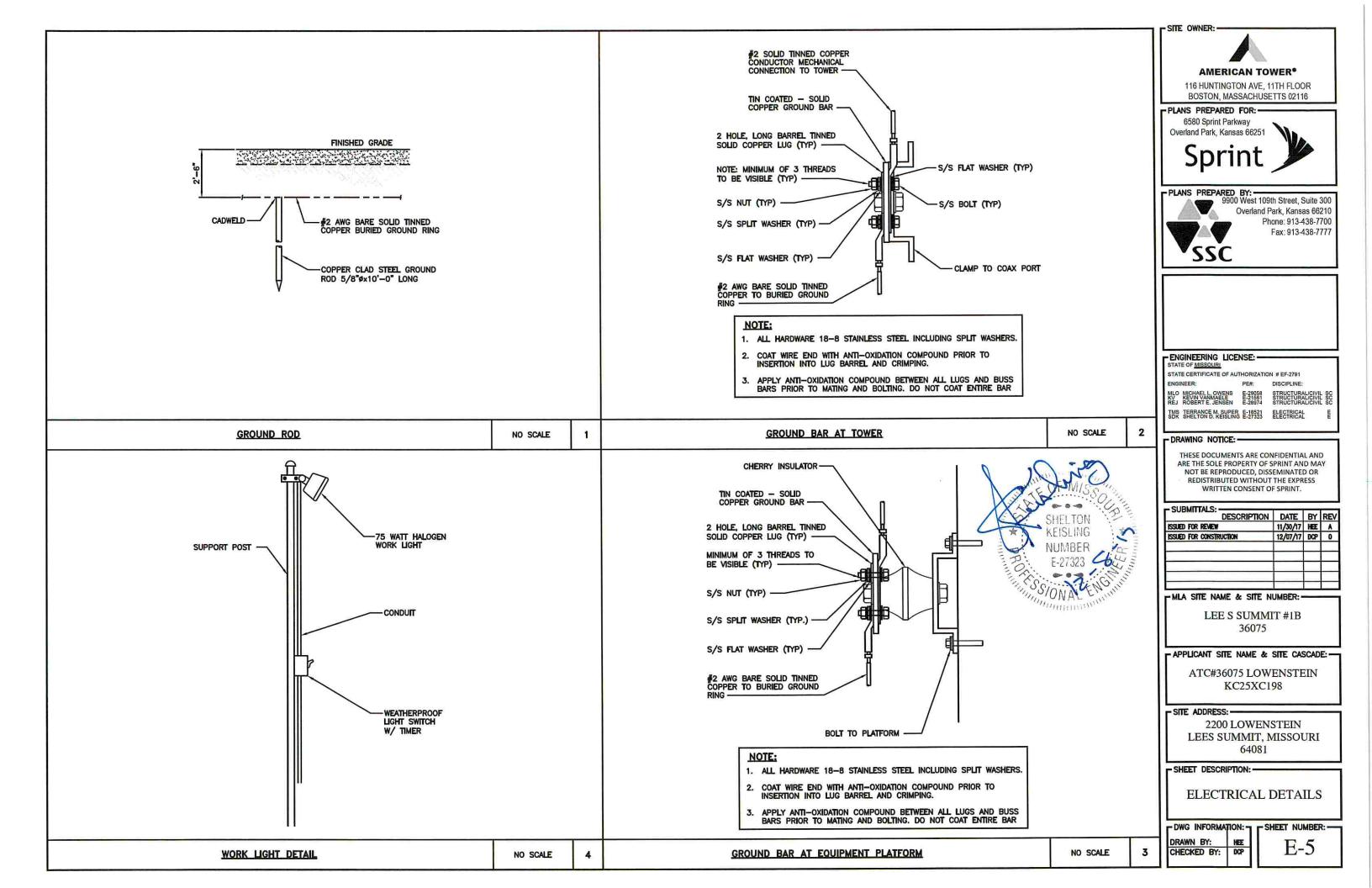
GROUNDING PLAN

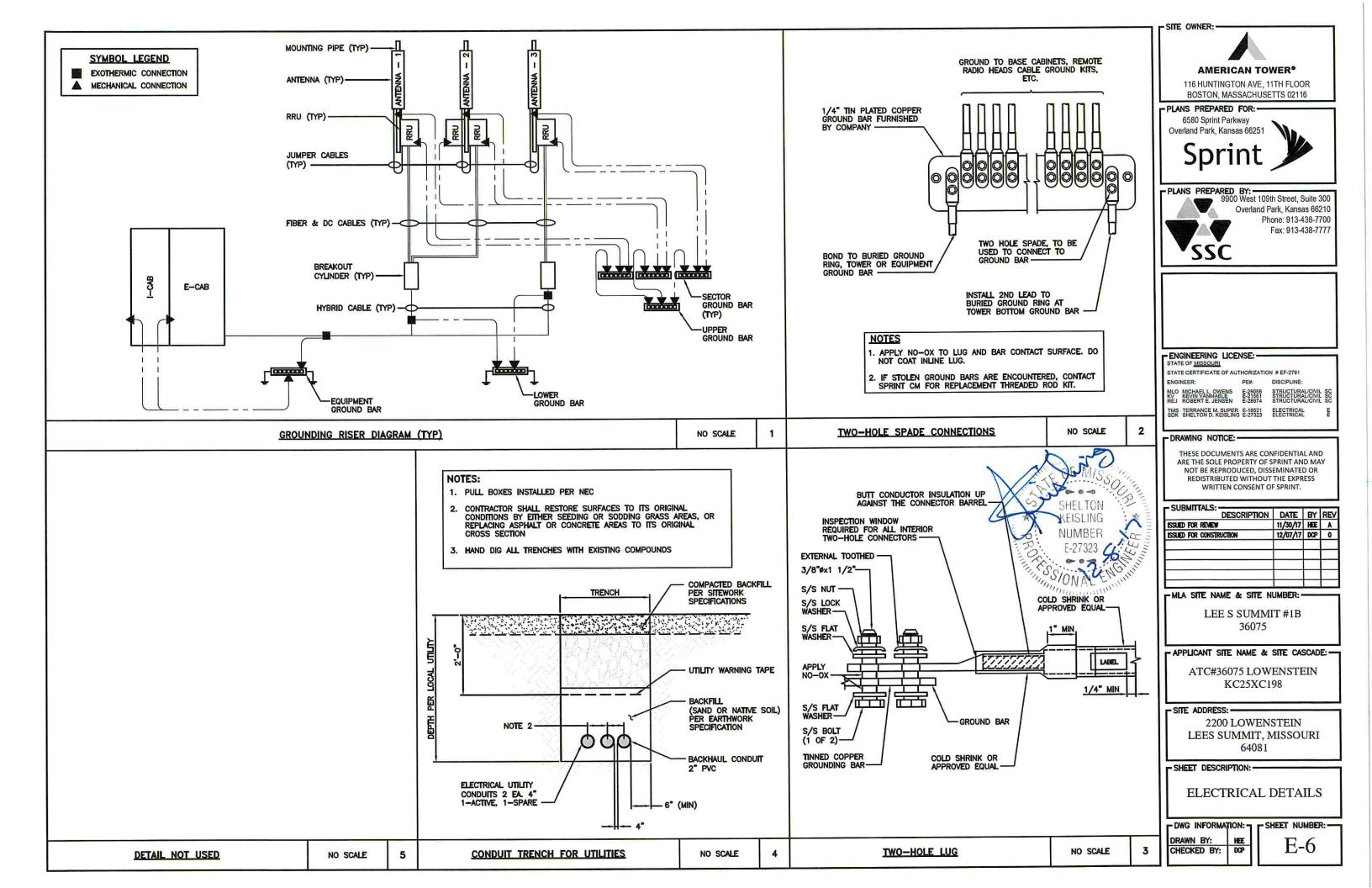
DWG	INFORMATIO	ON: ¬
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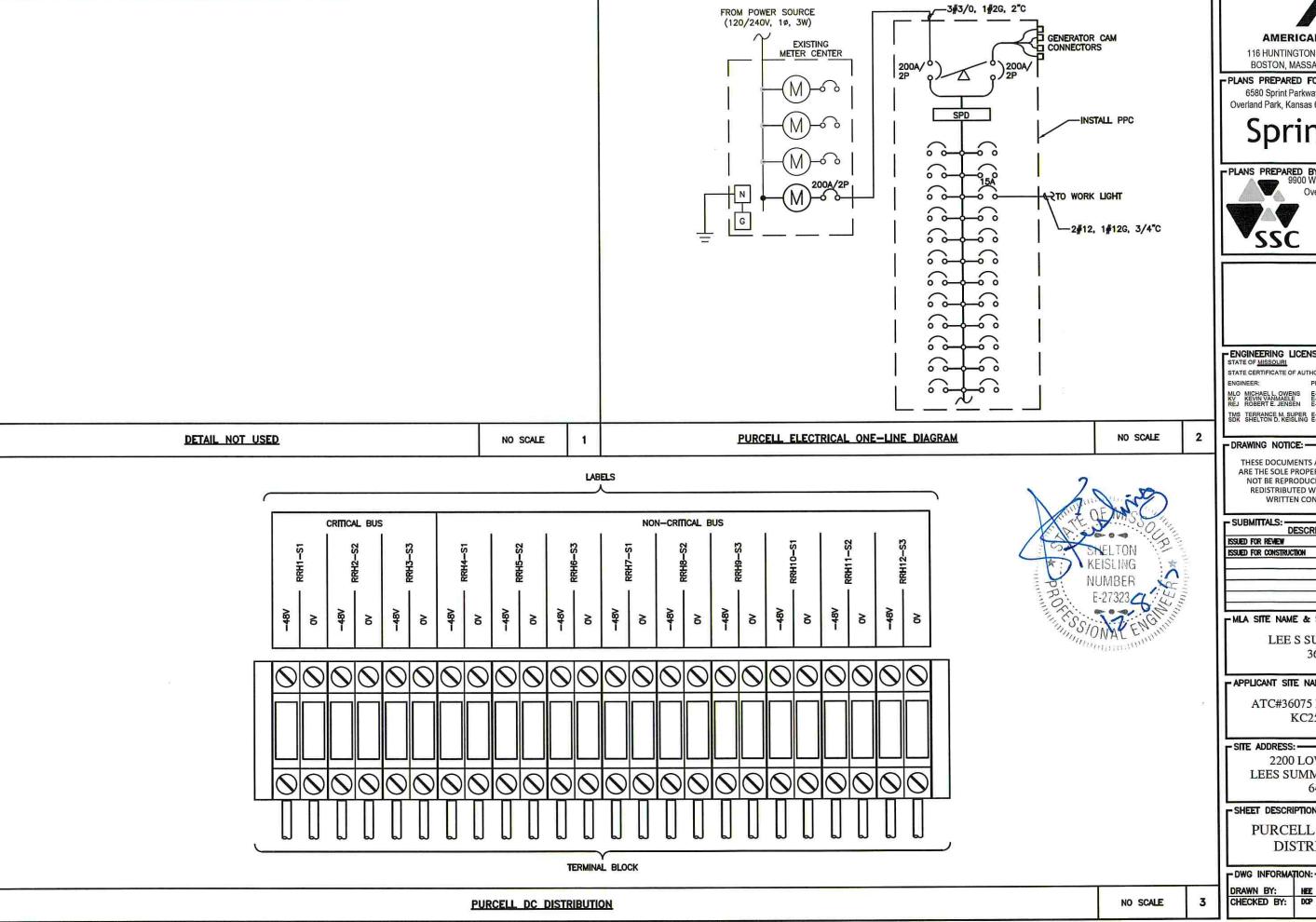
- SHEET NUMBER: -

CHECKED BY:









- SITE OWNER:



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9900 West 109th Street, Suite 300 Overland Park, Kansas 66210 Phone: 913-438-7700 Fax: 913-438-7777 SSC

FENGINEERING LICENSE: -

STATE CERTIFICATE OF AUTHORIZATION # EF-2791

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TMS TERRANCE M. SUPER E-18521 SDK SHELTON D. KEISLING E-27323 ELECTRICAL

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ATC#36075 LOWENSTEIN KC25XC198

SITE ADDRESS:

2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

- SHEET DESCRIPTION: -

PURCELL A/C POWER DISTRIBUTION

_ DWG INFORMATION: _ _ SHEET NUMBER: -

CIRCUIT					DEVICE			
CRITICAL CKT# ELTEK	CRITICAL CKT# PURCELL	LABEL ID	E* Size(A)	P* Size(A)	ERC Equip ID	STA Equip ID	ALU Equip ID	
12	1	RRH1-S1	20	25	1.9 RRU31, SECTOR 1	1.9 RRH-P4, SECTOR 1	1.9 RRH4X45, SECTOR 1	
13	2	RRH2-S2	20	25	1.9 RRU31, SECTOR 2	1.9 RRH-P4, SECTOR 2	1.9 RR4X45, SECTOR 2	
14	3	RRH3-S3	20	25	1.9 RRU31, SECTOR 3	1.9 RRH-P4, SECTOR 3	1.9 RRH4X45, SECTOR 3	
6	4	Router-A Feed	20	25	Router (901,920,903)	Router (901,920,903)	Router (901,920,903)	
7	5	Router-B Feed	20	25	Router (903) ¹	Router (903)	Router (903)	
8,15	6	MW-1 (IDU,PoE)	20	10	MW 1 IDU only	MW 1 IDU only	MW 1 IDU only	
9,16	7	MW-2 (IDU,PoE)	20	10	MW 2 IDU only	MW 2 IDU only	MW 2 IDU only	
10,17	8	MW-3 (IDU,PoE)	20	10	MW 3 IDU only or 1900 DUS+XMU 1900HC	MW 3 IDU only	MW 3 IDU only	
11,18	9	MW-4 (IDU,PoE)	20	10	MW 4 IDU only or 1900 DBA2 for High Cap	MW 4 IDU only	MW 4 IDU only	
1	10	BBU-1	20	25	1.9 CDMA 6601 (DUS+XMU)	800/1.9 CDMA BBU-Primary	800/1.9 CDMA 9927 BBU- Primary	
2	11	BBU-2	20	10	1.9 DBA	800/1.9 CDMA BBU	800/1.9 CDMA 9927 BBU or 1.9/2.5 NSN TDD FSM4 ²	
3	12	BBU-3	20	10	1.9 CEEM	800/1.9 FDD BBU	800/1.9 FDD BBU	
4	13	BBU-4/FAA LIGHT	20	25	Optional FAA Light	Optional FAA Light	Optional FAA Light	
21	14	Ancillary	20	10	Ekinops EDKA	> =	=	
5	29	Spare/TDD Filter	20	25	TDD Filter-Purcell Only	, -	-	
19	PB1	Fan 1	20	20	Cabinet Environmental Ctrl (E and B Cab DAC Purcell)			
20	PB2	Fan 2	20	20	Cabinet Environmental Ctrl (Purcell Spare)			

CIRCUIT					DEVICE			
	NON-CRITICAL CKT# PURCELL	LABEL ID	E* Size(A)	P* Size(A)	ERC Equip ID	STA Equip ID	ALU Equip ID	
10	15	RRH4-S1	20	25	2.5 RRUS82, SECTOR 1	2.5 RRH-B8, SECTOR 1	2.5 RRH8X20 or FZHN, SECTOR 1	
11	16	RRH5-S2	20	25	2.5 RRUS82, SECTOR 2	2.5 RRH-B8, SECTOR 2	2.5 RRH8X20 or FZHN, SECTOR 2	
12	17	RRH6-S3	20	25	2.5 RRUS82, SECTOR 3	2.5 RRH-B8, SECTOR 3	2.5 RRH8X20 or FZHN, SECTOR 3	
13	18	RRH7-S1	20	25	800 RRUS11, SECTOR 1	800 RRH-C2A, SECTOR 1	800 RRH2X50, SECTOR 1	
14	19	RRH8-S2	20	25	800 RRUS11, SECTOR 2	800 RRH-C2A, SECTOR 2	800 RRH2X50, SECTOR 2	
15	20	RRH9-S3	20	25	800 RRUS11, SECTOR 3	800 RRH-C2A, SECTOR 3	800 RRH2X50, SECTOR 3	
16	21	RRH10-S1	20	25	800 RRUS11-XT4R, SECTOR 1	800 RH-C2A-XT4R, SECTOR 1	800 RRH2X50-XT4R, SECTOR 1	
17	22	RRH10-S2	20	25	800 RRUS11-XT4R, SECTOR 2	800 RH-C2A-XT4R, SECTOR 2	800 RRH2X50-XT4R, SECTOR 2	
18	23	RRH11-S3	20	25	800 RRUS11-XT4R, SECTOR 3	800 RH-C2A-XT4R, SECTOR 3	800 RRH2X50-XT4R, SECTOR 3	
8	24	BBU-5	20	25	2.5 LTE 6601 (DUS+DUS) or FSIH	2.5 TDD BBU	2.5 TDD BBUv2	
9	25	Spare	20	10	NSN GPS	:=:	T=	
1	26	BBU-7	20	25	800 CDMA 6601 (DUx+XMU)		-	
2	27	BBU-8	20	25	800 DBA or DBU	1-	=	
3	28	BBU-6	20	25	2.5 LTE 6601 (DUS+DUS)		<u> </u>	
-	30	Spare	-	25		•	<u> </u>	



- SITE OWNER: -



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- SITE ADDRESS: -

2200 LOWENSTEIN LEES SUMMIT, MISSOURI 64081

- SHEET DESCRIPTION: -

CIRCUIT SCHEDULE

DWG INFORMATION: T SHEET NUMBER: -

DRAWN BY: HEE CHECKED BY: DCP