verizon

VERIZON SITE NUMBER:

VERIZON SITE NAME:

SITE TYPE:

SELF-SUPPORT TOWER HEIGHT: 254'-0"

585456

LAKE CITY WEST

DRAWING INDEX

SHEET DESCRIPTION

SELF-SUPPORT TOWER

TITLE SHEET

COMPOUND SITE PLAN

EROSION CONTROL PLAN

EROSION CONTROL NOTES

EQUIPMENT ELEVATIONS

ICE BRIDGE DETAILS

FIBER EQUIPMENT SCHEMATIC

EQUIPMENT SPECIFICATION:

GROUNDING DETAILS

GROUNDING DETAILS

ELECTRICAL & GROUNDING SITE PLAN

ELECTRICAL RISER & ONE-LINE DIAGRAM

EOUIPMENT LAYOUT & CONDUIT PLAY

EQUIPMENT SLAB FOUNDATION DETAILS & NOTE

OVERALL SITE PLAN EQUIPMENT SITE PLAN

SURVEY GN-1 GENERAL NOTE

SHEET #

7-1

BUSINESS UNIT #:

COUNTY:

JURISDICTION:

SITE ADDRESS:

809328

555 HACKNEY LANE, LAKE CITY, FL 32055

COLUMBIA COUNTY COLUMBIA COUNTY

VERIZON: NEW SITE BUILD

SITE INFORMATION

BOOK 882, PAGE 469

CROWN CASTLE USA INC

LAKE CITY W J-FL-012-058 SITE NAME

SITE ADDRESS:

555 HACKNEY LANE COUNTY-COLUMBIA COUNTY

MAP/PARCEL# AREA OF CONSTRUCTION:

EXISTING LATITUDE 30° 10' 56.44" LONGITUDE -82° 39' 38 01' LAT/LONG TYPE: NAD83

GROUND ELEVATION: CURRENT ZONING:

N/A COLUMBIA COUNTY TURISDICTION:

OCCUPANCY CLASSIFICATION: U TYPE OF CONSTRUCTION:

A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

PROPERTY OWNER:

CROWN CASTLE

TOWER OWNER:

CROWN CASTLE USA, INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317

VERTZON WIRELESS CARRIER/APPLICANT:

168 FT

7701 E. TELECOM PKWY. TEMPLE TERRACE, FL 33637

ANTHONY MERCER - VZW PROJECT MANAGER ANTHONY.MERCER@VERIZONWIRELESS.COA

ELECTRIC PROVIDER

FLORIDA POWER & LIGHT

1-800-226-3545 TELCO PROVIDER:

FIBER PROVIDER TBD

1000 HOLCOMB WOODS PKWY - SUITE 210

PROJECT TEAM

P. MARSHALL & ASSOCIATES, LLC.

WITH THE WORK OR BE RESPONSIBLE FOR SAME PROJECT SCOPE

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR

11' X 17'. CONTRACTOR SHALL VERIFY ALL PLANS AND

EXISTING DIMENSIONS AND CONDITIONS ON THE IOB SITE

AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN

WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING

SENIOR ENGINEER - PATRICK MARSHALL, P.E. PROJECT ENGINEER - CHAD WILLIOTT, P.E.

678-280-2325

ROSWELL, GA 30076

CROWN CASTLE USA INC. DISTRICT

A&E FIRM:

4511 N HIMES AVE, SUITE 210

TAMPA, FL 33614

DEREK SMITH - PROJECT MANAGER DEREK.SMITH@CROWNCASTLE.COM N/A - CONSTRUCTION MANAGER

- FINAL TOWER CONFIG:

 INST M.L. (6) JM. WIRELESS MINOFRORGO ANTENNAS

 INST M.L. (9) FRICKSON AIRGHP ANTENNAS

 INST M.L. (9) FRICKSON AIRGHP ANTENNAS

 INST M.L. (9) FRICKSON 840 RRUS

 INST M.L. (9) INST MRID JM. (7) FIFIR C VMI ES

 INST M.L. (9) STEP PRO 1 12-67 HEAVY DUTY V-FRAME ASSEMBLY,

 MODEL: VELY MIN

- NAU GREUND CUNTER:

 (NST ALL #XIO CONCRETE PAD FOR VERIZON EQUIPMENT CABINETS

 (NST ALL #XIO CONCRETE PAD FOR VERIZON GENERATOR

 (NST ALL #XIO CONCRETE PAD FOR VERIZON LP GIST VAN

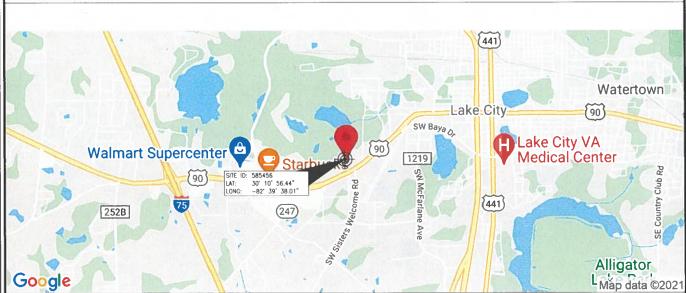
 (NST ALL #XIO CONCRETE PAD FOR VERIZON LP GIST VAN

 (NST ALL ETILITY FRAME FOR VERIZON UTILITY EQUIPMENT

NO EQUIPMENT PROPOSED WITHIN THE PROJECT SCOPE SHALL BE USED FOR EMERGENCY RESPONSE.

PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER

LOCATION MAP



APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES, NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE

MECHANICAL ELECTRICAL

2020 FLORIDA BUILDING CODE, 7TH EDITION

2017 NEC (NFPA 70)

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: BY: N/A; PROJECT #: N/A

DATED: N/A

MOUNT ANALYSIS: N/A DATED:

ORDER ID: 565094

CALL FLORIDA ONE CALL (800) 432-4770 CALLAWORKING DAYS







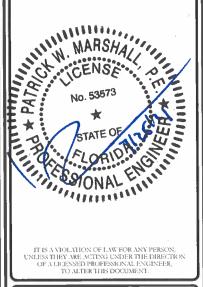
VERIZON SITE NUMBER: 585456

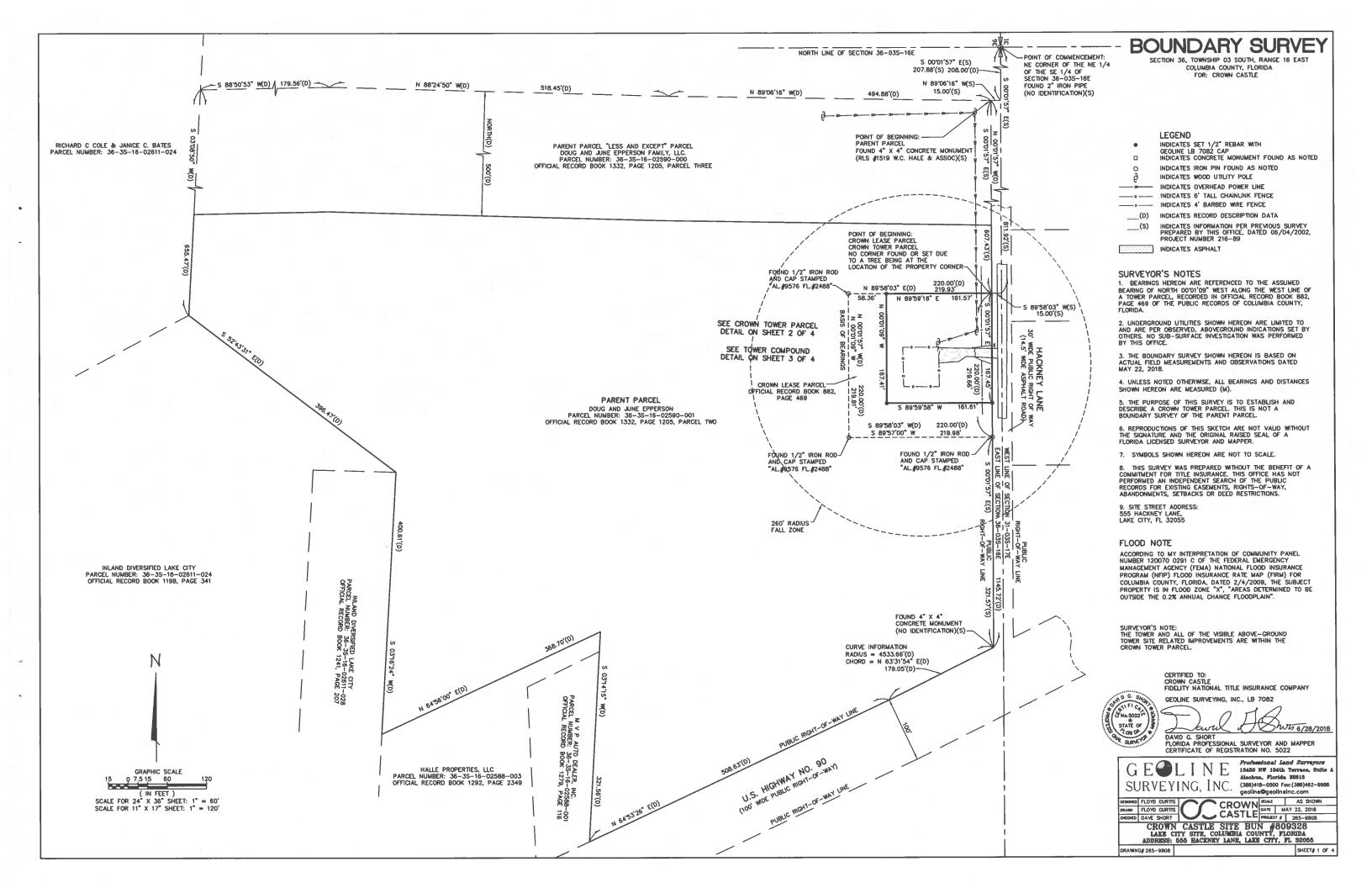
BU #: 809328 LAKE CITY W J-FL-012-058

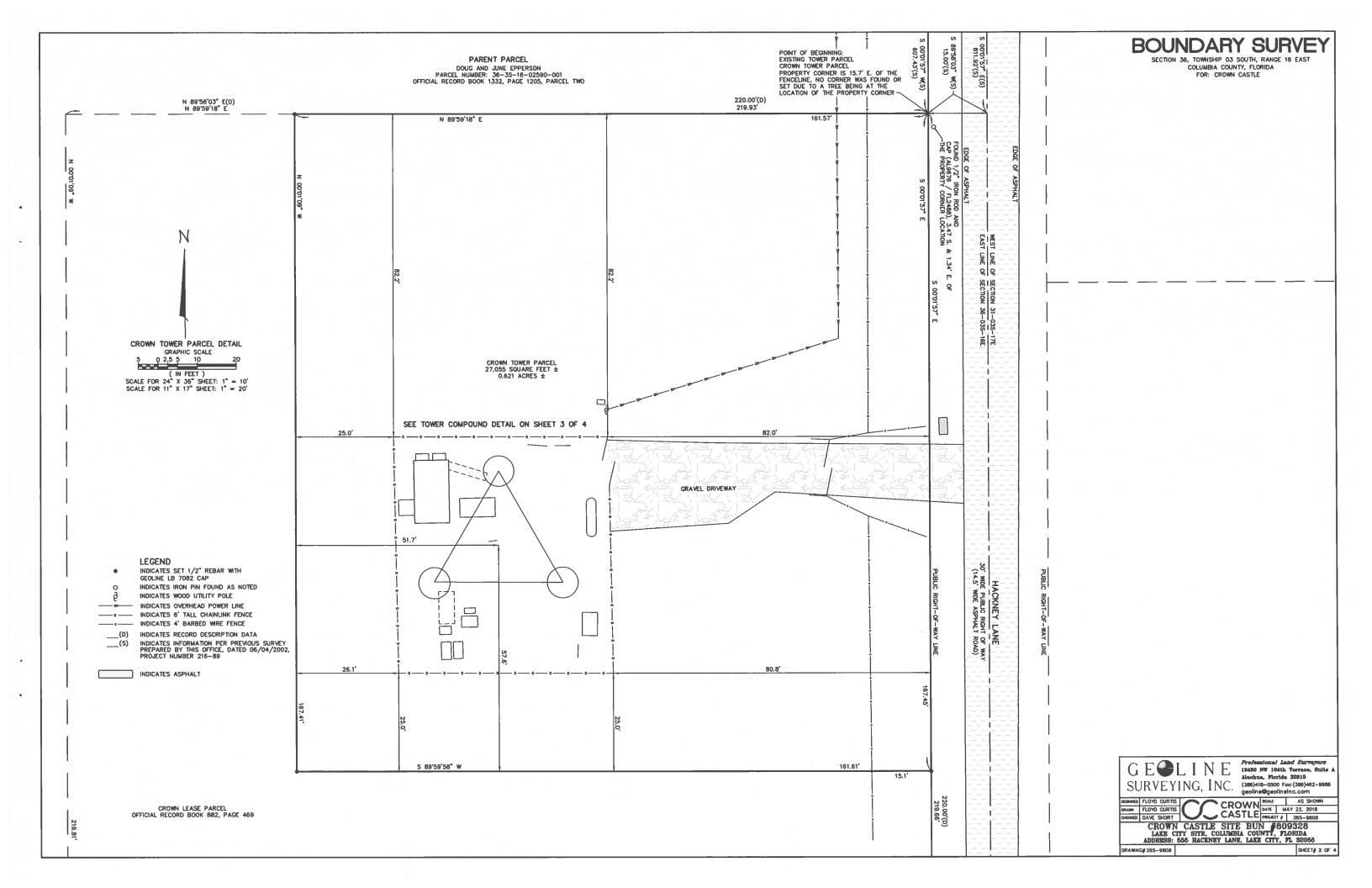
> 555 HACKNEY LANE LAKE CITY, FL 32055

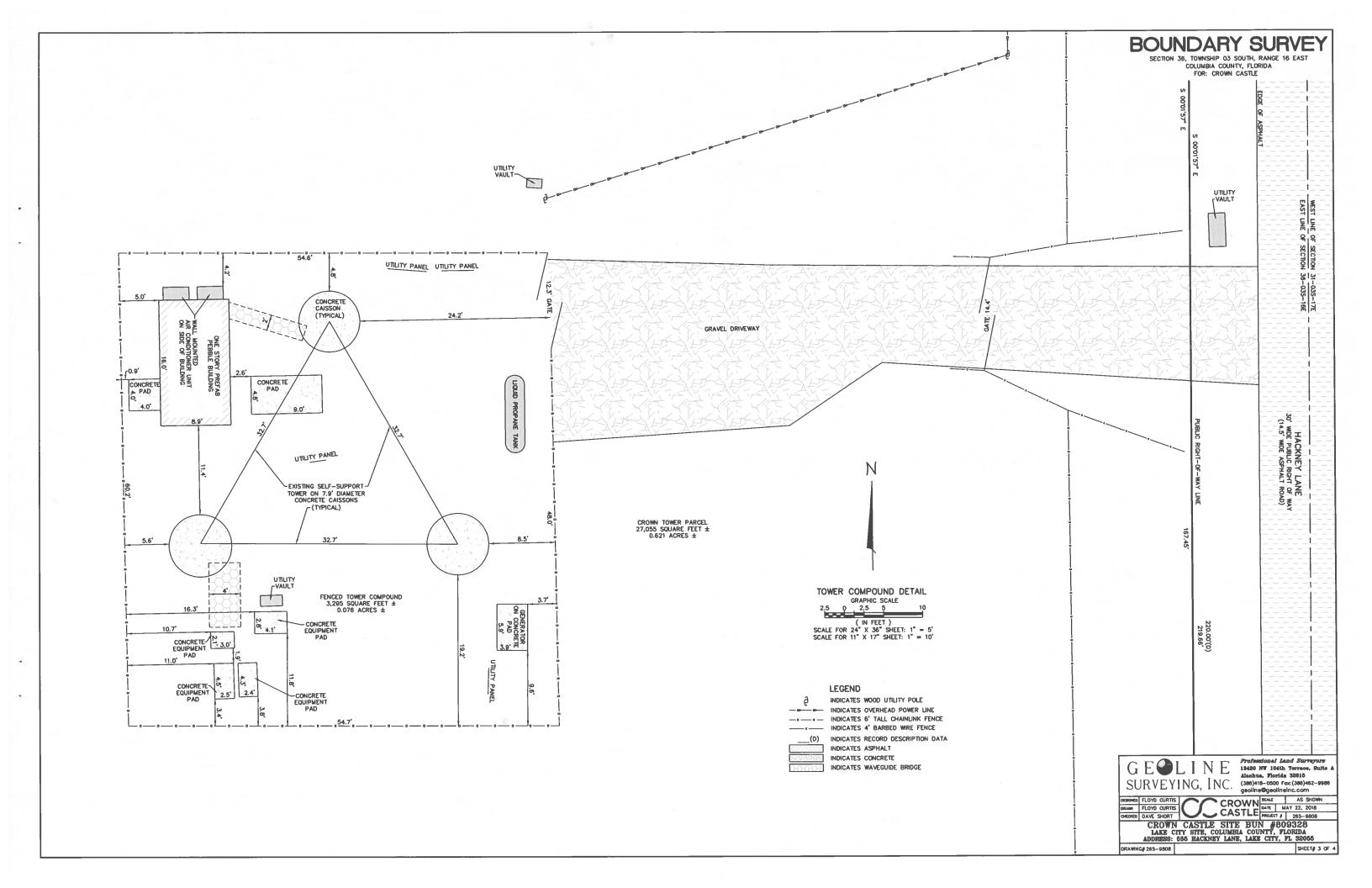
EXISTING 254'-0" SELF-SUPPORT TOWER

RHY.	DATE	DRWN	DESCRIPTION	DES./Q
A	5/27/2021	CW.	LEASE EXHIBIT ISSUE	CW.
0	6/10/2021	CH.	ISSUED FOR PRELIMS	CW.
1	7/23/2021	CIL.	ISSUED FOR FINALS	C/II/









BOUNDARY SURVEY

SECTION 36, TOWNSHIP 03 SOUTH, RANGE 16 EAST COLUMBIA COUNTY, FLORIDA

PROPERTY DESCRIPTIONS

PARENT PARCEL (OFFICIAL RECORD BOOK 1332, PAGE 1205, PARCEL TWO)

COMMENCE AT THE NORTHEAST CORNER OF THE NE 1/4 OF SE 1/4, SECTION 36, TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, AND RUN THENCE S 0'01'57" E ALONG THE EAST LINE OF SAID SECTION 36, 208.00 FEET, THENCE N 89'06'16" W, 15.00 FEET TO A FENCE CORNER AND THE POINT OF BEGINNING, THENCE CONTINUE N 89'06'16" W ALONG SAID FENCE, 494.88 FEET, THENCE N 88'24'50" W ALONG SAID FENCE, 518.45 FEET, THENCE S 88'50'53" W ALONG SAID FENCE, 179.56 FEET, THENCE S 3705'00" W, 655.47 FEET, THENCE S 52'43'31" E, 396.47 FEET, THENCE S 316'24" W, 400.61 FEET, THENCE N 64'56'00" E, 368.70 FEET, THENCE S 314'15" W, 321.56 FEET TO THE NORTH RIGHT—0F—WAY LINE OF STATE ROAD NO. 10 (U.S. HIGHWAY 90), THENCE N 64'53'26" E ALONG SAID NORTH RIGHT-OF-WAY LINE, 508.63 FEET TO A POINT OF CURVE, THENCE N 63'31'54" E ALONG A CHORD OF A CURVE CONCAVE TO THE LEFT HAVING A RADIUS OF 4533.66 FEET, 179.05 FEET TO THE WEST LINE OF A 30-FOOT EASEMENT FOR HACKNEY LANE, THENCE N 001'57" W
ALONG SAID WEST LINE AND PARALLEL TO THE EAST LINE OF SAID
SECTION 36, 1145.72 FEET TO THE POINT OF BEGINNING. LESS AND
EXCEPT THE NORTH 500 FEET THEREOF. SAID LANDS BEING A PART OF THE NE 1/4 OF SE 1/4 AND OF THESE 1/4 OF SE 1/4 OF SAID LANDS BEING A PART OF THE NE 1/4 OF SE 1/4 AND OF THESE 1/4 OF SE 1/4 OF SAID SECTION 38.

PARCEL NUMBER: 38-3S-18-02590-001

CROWN LEASE PARCEL

(OFFICIAL RECORD BOOK 882, PAGE 469)

A PARCEL OF LAND DESCRIBED AS FOLLOWS: COMMENCING AT AN EXISTING 3" GALVANIZED PIPE FOUND BY SURVEY OF W.C. HALE AND ASSOCIATES 1-7083 (SET BY SURVEY OF B.G. MORE 2-11-48) AT THE NORTHEAST CORNER OF THE NE 1/4 OF THE SE 1/4 OF SECTION 36, TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN S 00-01-57 E ALONG THE EAST LINE OF THE NE 1/4 OF AND RUN'S 00-01-57 & ALONG INE EAST LINE OF THE NE 1/4 OF THE SE 1/4, A DISTANCE OF 811.92 FEET; THENCE S 89-58-03 W, A DISTANCE OF 15.00 FEET TO THE WEST SIDE OF HACKNEY LANE TO THE POINT OF BEGINNING; THENCE S 00-01-57 E, ALONG SAID LANE, A DISTANCE OF 220.00 FEET; THENCE N 00-01-57 W, A DISTANCE OF 220.00 FEET; THENCE N 00-01-57 W, A DISTANCE OF 220.00 FEET; THENCE N 00-01-57 W, A DISTANCE OF 220.00 FEET; THENCE N 00-56'03 E, A DISTANCE OF 220.00 FEET TO THE POINT OF BEGINNING AND CONTAINING 1.11 ACRES, MORE OR LESS.

SAID LAND LYING IN THE NE 1/4 OF THE SE 1/4 OF SECTION 36, TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.

CROWN TOWER PARCEL (PREPARED BY GEOLINE SURVEYING, INC.)

THAT PART OF THE "DOUG AND JUNE EPPERSON FAMILY, LLC."
PARCEL, AS PER DESCRIPTION RECORDED IN OFFICIAL RECORD BOOK
1332, PAGE 1205 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY,
FLORIDA, SITUATED IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4
OF SECTION 36, TOWNSHIP 3 SOUTH, RANGE 18 EAST, COLUMBIA
COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS

COMMENCE AT THE NORTHEAST CORNER OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 36, TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA; THENCE SOUTH 00'01'57" EAST ALONG THE EAST LINE OF SAID NORTHEAST 1/4 OF THE SOUTHEAST 1/4 FOR 811.92 FEET; THENCE SOUTH 89'58'03" WEST FOR 15.00 FEET TO AN INTERSECTION WITH THE WEST RIGHT-OF-WAY LINE OF HACKNEY LANE (30 FOOT WIDE PUBLIC RIGHT-OF-WAY) AND THE EASTERLY LINE OF THE "DOUG AND JUNE EPPERSON FAMILY, LLC."

PARCEL, AS PER DESCRIPTION OF PARCEL TWO RECORDED IN OFFICIAL RECORD BOOK 1332, PAGE 1205 OF THE PUBLIC RECORDS OF SAID COLUMBIA COUNTY AND THE POINT OF BEGINNING, SAID POINT OF BEGINNING BEING SOUTH 00701'57" EAST, A DISTANCE OF 607.43 FEET FROM THE NORTHEASTERLY CORNER OF THE "DOUG AND JUNE EPPERSON FAMILY, LLC." PARCEL, AS PER DESCRIPTION OF PARCEL THREE RECORDED IN SAID OFFICIAL RECORD BOOK 1332, PAGE 1205; THENCE SOUTH 00'01'57" EAST ALONG SAID WEST RIGHT-OF-WAY LINE AND SAID EASTERLY LINE FOR 167.45 FEET; THENCE SOUTH 89'59'58" WEST FOR 161.61 FEET; THENCE NORTH 00'01'09" WEST FOR 167.41 FEET; THENCE NORTH 89'59'18" EAST FOR 161.57 FEET TO SAID POINT OF BEGINNING.

CONTAINING 27,055 SQUARE FEET (0.621 ACRES), MORE OR LESS.



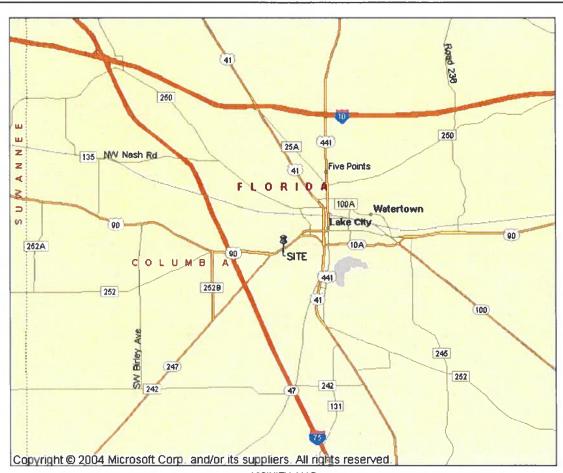
18480 NW 104th Terrace, Suite hua, Florida 32615 (386)418-0500 Fax (386)462-9986

SHEET# 4 OF 4

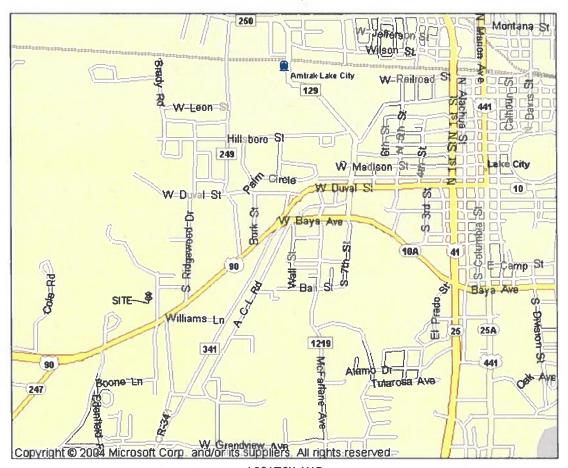
CROWN | SALE | AS SHOWN | DATE | MAY 22, 2018 | PROJECT # | 265–9808 DAVE SHORT

CROWN CASTLE SITE BUN #809328 LAKE CITY SITE, COLUMBIA COUNTY, FLORIDA ADDRESS: 666 HACKNEY LANE, LAKE CITY, FL 32056

RAWNG# 265-9808



VICINITY MAP NOT TO SCALE



LOCATION MAP NOT TO SCALE

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- NOTICE TO PROCEED. NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER
- "LOOK UP" CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING A.

 STACES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, WOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE WHICH SHAPE OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDIGATION TO THE OWNER OF WHICH MAY COMPONENTED ANTEROPE WHICH MAY COMPONENTED ANTERY CLIMB AND EPODECK TO A VALUE COMMY. COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LUMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING, ATTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESOUR PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE AIO.48 (LATEST EDITION); FEDERAL, STATE, AND LOCA REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED, ALL RIGGING PLANS SHALL ADHERE TO ANNI/ASSE AIO.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED-STO-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED FENGREE FOR CLASS. CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
- ALL SITE WORK TO COMPLY WITH GAS—STID—10688 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE" AND LATEST VERSION OF ANSI/TIA—1019—A—2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
- THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE I ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANG ALL WATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS
- AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND WATERIALS IN ACCORDANCE WITH WANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

 THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
- CONSTRUCTION SAFETY PROCEDURES.

 ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
- CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION 12 OF THE WORK, IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE STIE AND UNSPOSED OF LEGALIT.
 ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER
- 15.
- THE SUB CRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE
- APPLICATION.

 THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.

 CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING STIE DURING CONSTRUCTION. EROSION CONTROL WEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 20 CONTRACTOR SHALL LEGALLY AND PROPERTY DISPOSE OF ALL SCRAP MATERIALS SLICH AS COASIAL CARLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY
- 22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT

GENERAL NOTES:

FOR THE PURPOSE OF CONSTRUCTION DRAWING. THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION VERIZON CARRIER-

TOWER OWNER CROWN CASTLE LISA INC.

THESE DEARINGS HAVE ELEMP PREPARED USING STANDARDS OF PROFESSIONAL CÂRE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALIFES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWELDEG IF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR

CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR VISCELLANEOUS WORK NOT EXPLICITLY SHOWN. MISCELLARCOUS TORK NOT EAR-DOILD SHOWN.
HEESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THI

- INCISE DIMINIORS AND PROCEDURES. THE USE OF THE CONSTRUCTION MEANS, METHODS, TO VER METHODS OF VENERAL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LUTTED 10, BRANCIAGE, FORWARDER, SHORING, ETC. SITE VISTS THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE.
- ONLI. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. AS MERCE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SHIULAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARRICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD.
- VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR
- VERIET THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWNINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION DELECTION. IT IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWNINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.

 PRIOR TO THE SUBMISSION OF BIDD. THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPUSINGE OA SHOWN ON THE CONSTRUCTION DRAWNINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.

 ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY RECARDING THE PERFORMANCE OF THE WORK ALL WORK PARTED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT STALL 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, APPURTEMANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

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

- SPECIFICALLY STATED OTHERWISE IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF
- INSTALLATION.
- INSTALLATION.

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

 THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAZIMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART
- SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
 CONTRACTOR SHALL LEGALLY AND PROPERTY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED
 FROM THE EXISTING FACILITY. ANTENINAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
 CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION, TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST—IN-PLACE CONCRETE. UNLESS MOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STEAD FOR DESIGN OF 2000 ps it and foundations is assumed to be found psi.

 HAN 30 MINITES SHALL FALVE A MINIMUM COMPRESSIVE STERNOTH (FC) OF 3000 ps it AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE
 THAN 30 MINITES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD.

 TEMPERATURE OF CONCRETE SHALL NOT EXCEED 901 AT TIME OF PLACEMENT.

 CONCRETE EXPOSED TO FREEZE—THAM CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED
- ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.

 ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPUCES
- SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
- BARS AND SMALLER #5 BARS AND LARGER
 THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH CONCRETE EXPOSED TO EARTH OR WEATHER:

6 BARS AND LARGER 1-1/2 SLAB AND WALLS BEAMS AND COLUMNS

A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

GREENFIELD GROUNDING NOTES:

- ALL GROWING EFFTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL PURNISH AND INSTALL SUPPLIES AND ELECTRODES AS NEEDED TO ACHIEVE A TEST
- RESULT OF 5 OHMS OR LESS.

 THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

 METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER FOR INDOOR BTS: #2 BARE SOUD TINNED COPPER FOR OUTDOOR BTS
- EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH CREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED. ALL EXTEROR GROUND CONDUCTORS SHETWERN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOUD THIND COPPER DILESS OTHERWISE INDICATED. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTORS SHALL BE LAVED WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS.

 LES OF 90' BENDS IN THE PROTECTION GROUNDING CONNECTIONS BELOW GRADE.

 ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

 CEDIPMENSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD SONNECTIONS.

 LES BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLITED TO THE BRIDGE AND THE TOWER GROUND CONNECTIONS.

 LES BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLITED TO THE BRIDGE AND THE TOWER GROUND CONNECTIONS.

- ICE BRODE BOUNDERONS CONDUCTIONS SHALL BE EXCHEMBRIALLY BOUNDED OF MEDICEN OF THE BRODE AND THE CHORD BAR.

 APPROVED ANTIOXIDANT CORDININS (i.e. CONDUCTIVE GET, OR PASTS) SHALL BE USED ON ALL COMPRESSION AND BOILTED GROUND CONNECTIONS.

 ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

 MISCELLANDOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

 BOND ALL METALLIC OBJECTS WITHIN 6 IT OF MAIN GROUND RING WITH (1)

 BOND ALL METALLIC OBJECTS WITHIN 6 IT OF MAIN GROUND RING WITH (1)

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 BOND ALL METALLIC OBJECTS WITHIN 6 IT OF MAIN GROUND RING WITHIN 6 IT OF MAIN GROUND RING WITHIN RING ROUND RING WITHIN RING ROUND
- ALL GROUNDS THAT TRANSTION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
 BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING SYSTEM, THE GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDINGS WAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

ELECTRICAL INSTALLATION NOTES:

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

 CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ALEIJANIATED.

- ELIMINATED.

 WIRNIC, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

 ALL CIRCUITS SHALL BE SEGRECATED AND MANTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

 1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.

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

 EACH END OF EVERY POWER PHASE CONDUCTOR, GROWNING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR—CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONSECURE WITH METHOR SHALL CONSECUR
- METHOD SHALL CONFORM WITH NEC AND OSHA.
 ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE
- CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).

- CONFIGURATION, POWER OR AMPACITY MATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PARLE BOARD AND CIRCUIT ID 5).

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

 ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

 ALL POWER AND EQUIPMENT GROUND WRITING IN TUBBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW.

 THYNN, THWN-2, XHHW, XHHW-2, THW, THW-2, RSHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

 SUPPLEMENTAL EQUIPMENT GROUND WRITING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTING (#6 OR LARGER) WITH TYPE THHW,

 THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

- HIMM-Z, KHMW, KHMW-Z, HMW, HMW-Z, KHM, ON KHM-Z INSULATION UNLESS DIFFERMSE SPECIFIED.

 POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE WULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.

 POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE WULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHM, THAN, THAN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

 ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL).

 HICS AND WIRE MIJES SHALL BE PATTE FOR OPERATION DATE IS TO THAN THE COMPRESSION WIRE LUGS AND WIRE NOT BE THE MADE TO TH
- LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE). RACEWAY AND CARLE TRAY SHALL BE LISTED OR LARFLED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL. ANSI/IEEE AND NEG
- RICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR
- ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS
- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY !!
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- ACCEPTION.

 CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEWA, UL, ANSI/IEEE AND THE NEC.
 WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE
- WIREWAY). SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
- SLOTTED WRING DUCT SHALL BE PYC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).

 CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERWITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANCES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUITS SHALL BE INSTALLED IN A NEAT AND WORKMANILKE MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CELLING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGOLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE RION BUSHINGON INSIDE AND GALVANIZED MALLEABLE RION BUSHINGON INSIDE AND GALVANIZED MALLEABLE RION DISCHINGON INSIDE AND GALVANIZED MALLEABLE RION DISCHINGON INSIDE AND GALVANIZED CONTROL OF CONTROL AND STRUCTURE SHALL MEET OR PROXYCOATED SHALL BE STRUCTURED OR PROXYCOATED SHEET STEEL. SHALL MEET OR PROXYCOATED SHALL BE AND DE REPORT COATIONS.
- EXCEED U. SO AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERNOR LOCATIONS.

 METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED U. 514A AND

 NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS. AND WEATHER PROTECTED FOR DETERNOR LOCATIONS.

 NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER).
- FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS. FOR INTERIOR LOCATIONS AND WEATHER PROTECTIED (WP OR BELIEK) FOR EXTENDIN LOCATIONS CONTINUED.

 THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

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

 INSTALL LAMBGOOD LABEL ON THE METER CENTER TO SHOW "VERIZON".

 ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

APWA UNIFORM COLOR CODE:

PINK TEMPORARY SURVEY MARKINGS

ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES YELLOW GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS

OR CONDUIT AND TRAFFIC LOOP

PURPLE RECLAIMED WATER, IRRIGATION, AND SLURRY

WHITE PROPOSED EXCAVATION

BLUE POTABLE WATER

GREEN SEWERS AND DRAIN LINES

CONDUCTOR COLOR CODE						
SYSTEM	CONDUCTOR	COLOR				
	A PHASE	BLACK				
120/240V, 1Ø	B PHASE	RED				
120/2404, 10	NEUTRAL	WHITE				
	GROUND	GREEN				
	A PHASE	BLACK				
	B PHASE	RED				
120/208V, 3Ø	C PHASE	BLUE				
	NEUTRAL	WHITE				
	GROUND	GREEN				
	A PHASE	BROWN				
	8 PHASE	ORANGE OR PURPLE				
277/480V, 3Ø	C PHASE	YELLOW				
	NEUTRAL	GREY				
	GROUND	GREEN				
DC VOLTAGE	POS (+)	RED**				
DC VOLIAGE	NEG (-)	BLACK**				

CONDUCTOR COLOR CODE

SEE NEC 210.5(C)(1) AND (2)

POLARITY WARKED AT TERMINAT

ABBREVIATIONS

2011	MULCHAN
(E)	EXISTING
ĤÉ	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTE
GSM	GLOBAL SYSTEM FOR MOBI
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
WW	MICROWAVE
(N)	NEW
ŇĚC	NATIONAL ELECTRIC CODE

- QUANTITY

 RECHIETE

 RADIO BASE STATION

 REMOTE ELECTRIC TILT

 RADIO FREQUENCY DATA SHEET

 REMOTE RADIO HEAD

 REMOTE RADIO HEAD

 REMOTE RADIO UNIT

 SHABET INTEGRATED DEVOCE
- SMART INTEGRATED DEVICE TOWER MOUNTED AMPLIFIER
- TIFICAL UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM WORK POINT

7701 E. TELECOM PKWY. TEMPLE TERRACE, FL 33637





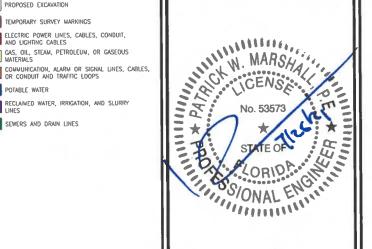
VERIZON SITE NUMBER: 585456

BU #: 809328 LAKE CITY W J-FL-012-058

> 555 HACKNEY LANE LAKE CITY, FL 32055

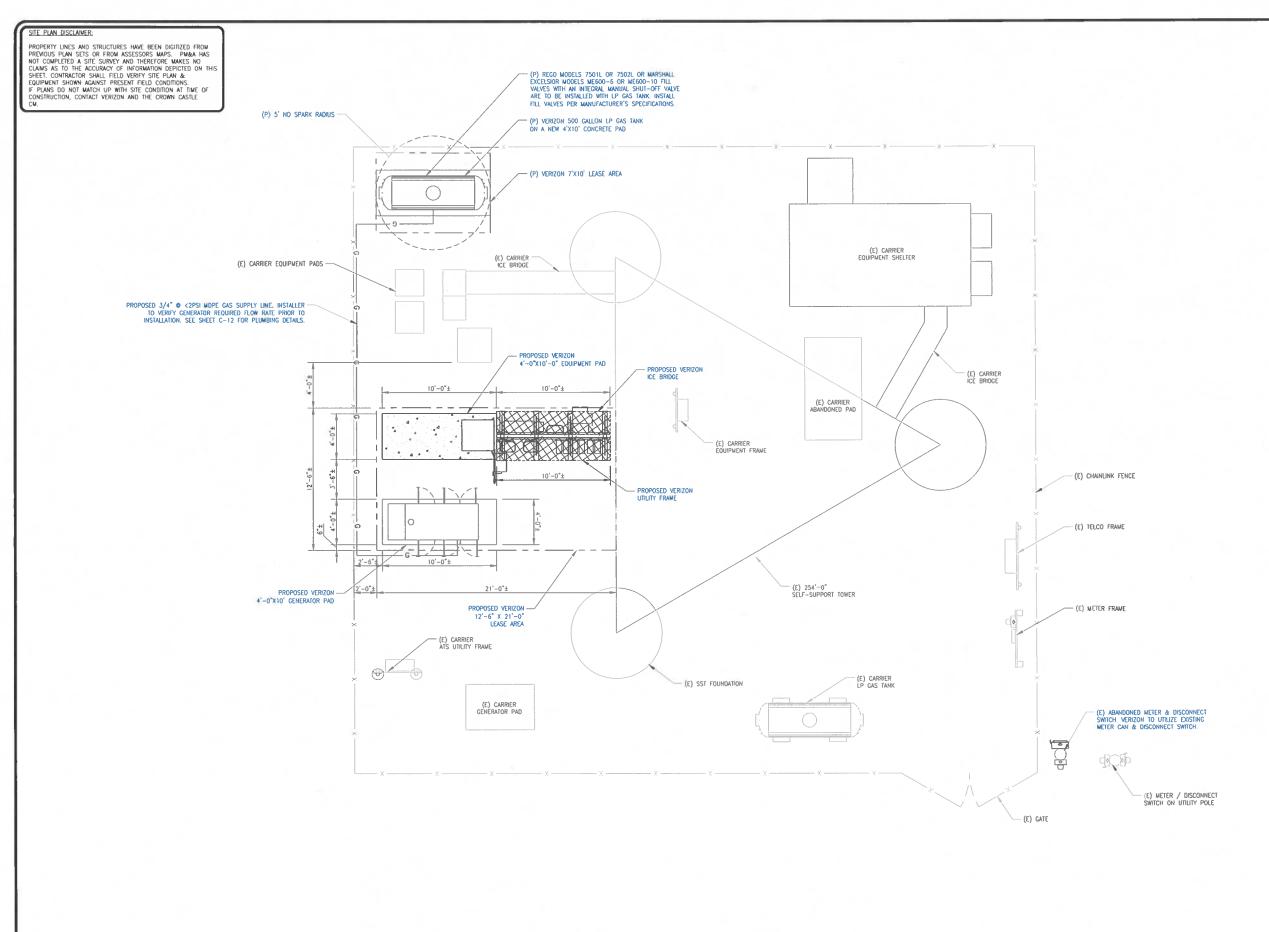
EXISTING 254'-0" SELF-SUPPORT TOWER

ISSUED FOR:						
REV	DATE	DRWN	DESCRIPTION	DES /		
A	5/27/2021	CW.	LEASE EXHIBIT ISSUE	C#,		
0	6/10/2021	CW.	ISSUED FOR PRELIMS	C/II'		
ī	7/23/2021	C.K.	ISSUED FOR FINALS	C/L		



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

SHEET NUMBER:







TAMPA, FL 33614



P. MARSHALL & ASSOCIATES 1000 HOLCOMB WOODS PKWY, STE 210, ROSWELL, GA 30076 OFFICE 678-230-2325

VERIZON SITE NUMBER: 585456

BU #: **809328 LAKE CITY W J-FL-012-058**

> 555 HACKNEY LANE LAKE CITY, FL 32055

EXISTING 254'-0" SELF-SUPPORT TOWER

ISSUED FOR:						
REV	DATE	DRWN	DESCRIPTION	DES./QA		
А	5/27/2021	CW.	LEASE EXHIBIT ISSUE	CW.		
0	6/10/2021	C.M.	ISSUED FOR PRELIMS	C/II'		
1	7/23/2021	CM.	ISSUED FOR FINALS	C/Z.		



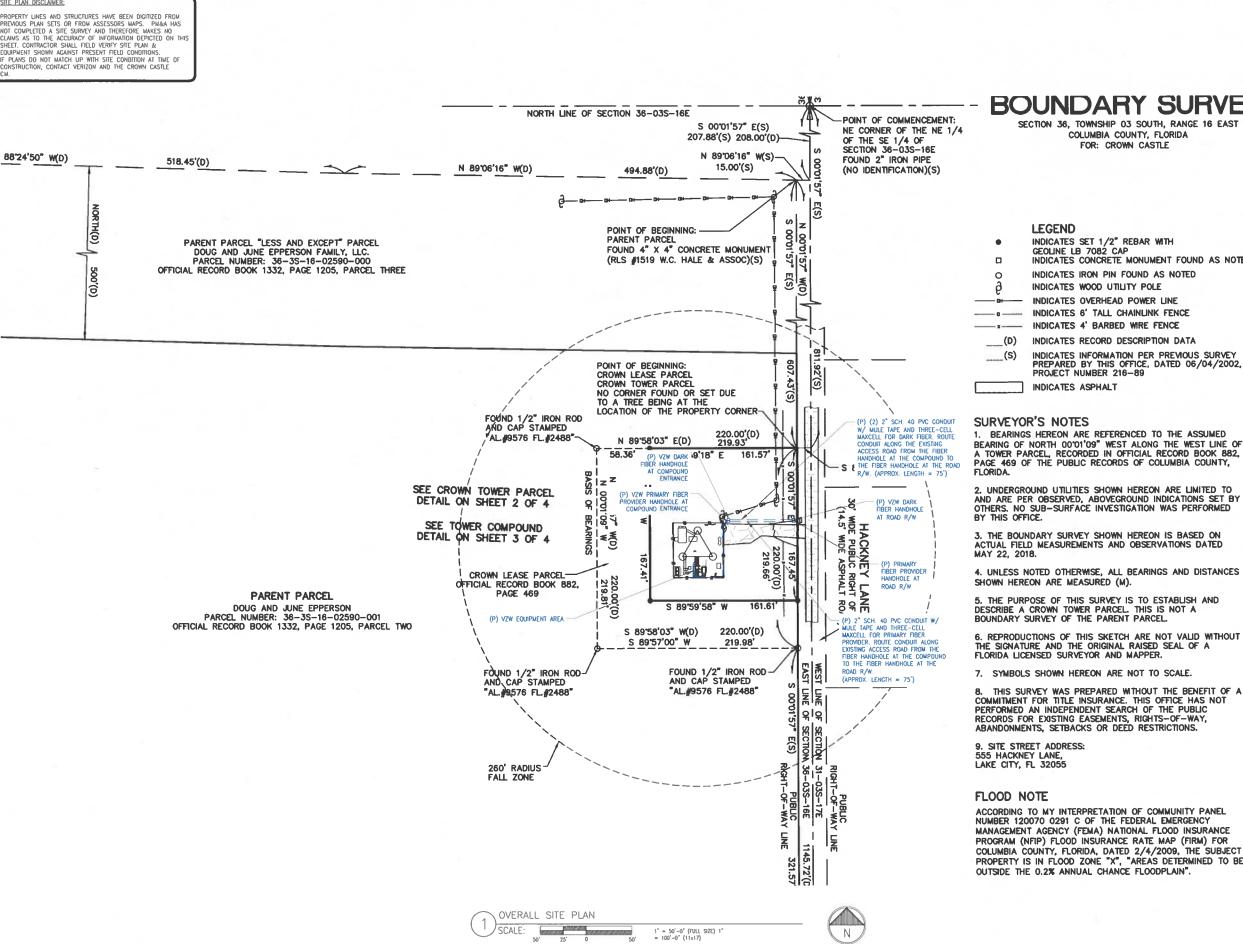
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SHEET NUMBER:

revision:









SECTION 36, TOWNSHIP 03 SOUTH, RANGE 16 EAST COLUMBIA COUNTY, FLORIDA

- INDICATES CONCRETE MONUMENT FOUND AS NOTED
- INDICATES IRON PIN FOUND AS NOTED

- INDICATES INFORMATION PER PREVIOUS SURVEY PREPARED BY THIS OFFICE, DATED 06/04/2002,

1. BEARINGS HEREON ARE REFERENCED TO THE ASSUMED BEARING OF NORTH 00'01'09" WEST ALONG THE WEST LINE OF A TOWER PARCEL, RECORDED IN OFFICIAL RECORD BOOK 882, PAGE 469 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY,

2. UNDERGROUND UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED, ABOVEGROUND INDICATIONS SET BY OTHERS. NO SUB-SURFACE INVESTIGATION WAS PERFORMED

- 3. THE BOUNDARY SURVEY SHOWN HEREON IS BASED ON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS DATED MAY 22, 2018.
- 4. UNLESS NOTED OTHERWISE, ALL BEARINGS AND DISTANCES
- DESCRIBE A CROWN TOWER PARCEL. THIS IS NOT A
- 6. REPRODUCTIONS OF THIS SKETCH ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A
- COMMITMENT FOR TITLE INSURANCE. THIS OFFICE HAS NOT PERFORMED AN INDEPENDENT SEARCH OF THE PUBLIC RECORDS FOR EXISTING EASEMENTS, RIGHTS-OF-WAY, ABANDONMENTS, SETBACKS OR DEED RESTRICTIONS.

NUMBER 120070 0291 C OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM) FOR COLUMBIA COUNTY, FLORIDA, DATED 2/4/2009, THE SUBJECT PROPERTY IS IN FLOOD ZONE "X", "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN".







VERIZON SITE NUMBER: 585456

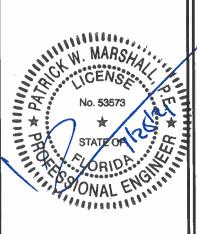
OFFICE 678-230-2325

BU #: 809328 LAKE CITY W J-FL-012-058

> 555 HACKNEY LANE LAKE CITY, FL 32055

EXISTING 254'-0" SELF-SUPPORT TOWER

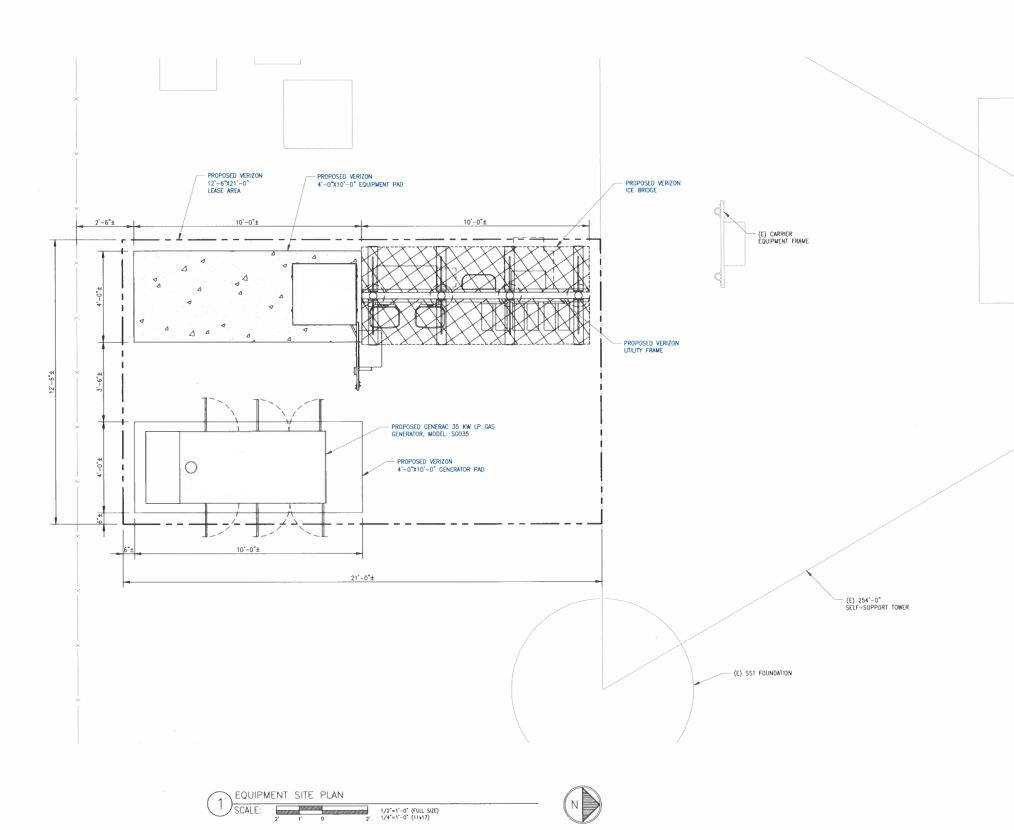
REV	DATE	DRWN	DESCRIPTION	DES./Q
Α	5/27/2021	CW.	LEASE EXHIBIT ISSUE	C/L,
0	6/10/2021	C/K,	ISSUED FOR PRELIMS	C/L
i	7/23/2021	CW	ISSUED FOR FINALS	C/L



SHEET NUMBER:

SITE PLAN DISCLAIMER:

PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM PREVIOUS PLAN SETS OR FROM ASSESSORS MAPS. PM&A HAS NOT COMPLETE A SITE SURVEY AND THEREFORE MAKES NO CLAIMS AS TO THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET. CONTRACTOR SHALL FIELD VERIFY SITE PLAN & COUPPLEATS HOWN ACAINST PRESENT FIELD CONDITIONS. IF PLANS DO NOT MATCH UP WITH SITE CONDITION AT TIME OF CONSTRUCTION, CONTACT VERIZON AND THE CROWN CASTLE CM.





7701 E. TELECOM PKWY. TEMPLE TERRACE, FL 33637



TAMPA, FL 33614



P. MARSHALL & ASSOCIATES 1000 FIGLCOMB WOODS PKWY. STE 210, ROSWELL, GA 30076 OFFICE 678-230-2325

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ISSUED FOR:						
REV	DATE	DRWN	DESCRIPTION	DES./Q3		
Α	5/27/2021	CW.	LEASE EXHIBIT ISSUE	CW		
0	6/10/2021	C.M.	ISSUED FOR PRELIMS	CW		
-1	7/23/2021	C.K.	ISSUED FOR FINALS	C/L,		
		A 5/27/2021 0 6/10/2021	REV DATE DRWN A 5/27/2021 CW O 6/10/2021 CW	REV DATE DRWN DESCRIPTION A 5/27/2021 CW LEASE EXHIBIT ISSUE 0 6/10/2021 CW ISSUED FOR PRELIMS		

M. MARSHA

No. 53573

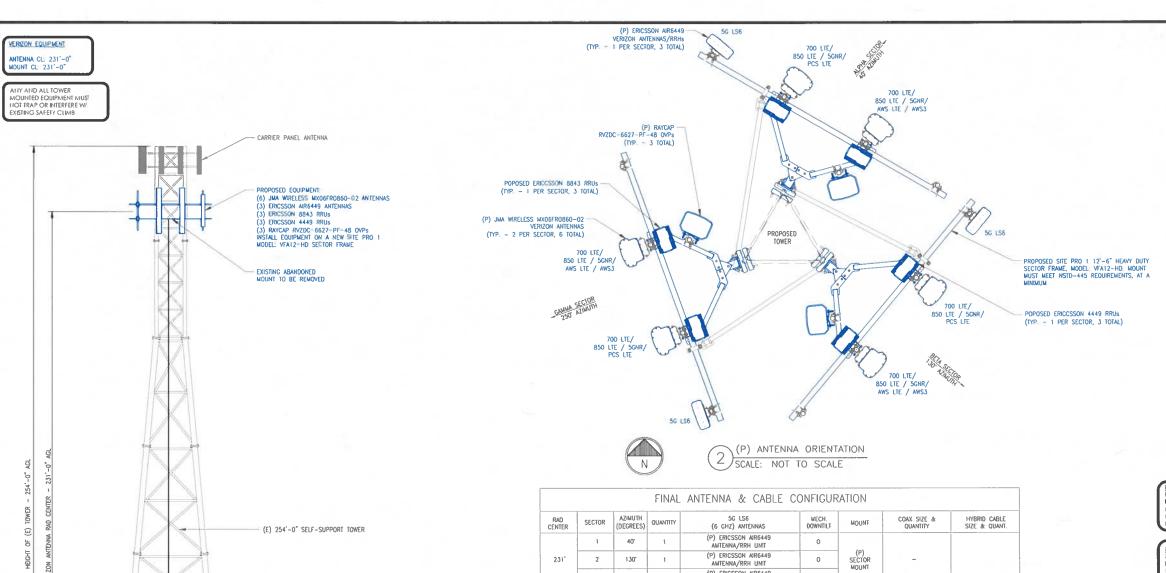
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STATE OF LANGE AND A

SONAL ENGINEER

SONAL ENGINEER

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SHEET NUMBER:



(P) VERIZON FEEDLINES

(P) VERIZON ELEVATED EQUIPMENT PAD

TOWER ELEVATION

1) SCALE: NOT TO SCALE

(3) 12X24 (1-5/8") HYBRID DC / FIBER CABLES

GROUND ELEVATION: 168 FT AWSL

			FINAL	ANTENNA & CABLE	CONFIGUR	RATION		
RAD CENTER	SECTOR	AZIMUTH (DEGREES)	QUANTITY	5G LS6 (6 GHZ) ANTENNAS	MECH. DOWNTILT	MOUNT	COAX SIZE & QUANTITY	HYBRID CABLE SIZE & QUANT.
	1	40"	1	(P) ERICSSON AR6449 AMTENNA/RRH UNIT	0			
231*	2	130*	1	(P) ERICSSON AR6449 AMTENNA/RRH UNIT	0	(P) SECTOR MOUNT	_	
	3	250°	1	(P) ERICSSON AIR6449 AMTENNA/RRH UNIT	0	4		
RAD CENTER	SECTOR	AZIMUTH (DEGREES)	QUANTITY	AWS LTE / AWS3 (2100 MHZ) ANTENNAS	MECH. DOWNTILT	MOUNT	COAX SIZE & QUANTITY	(P) (3) 12X24 HYBRID DC /
	1	40"	1	(P) JMA MX06FR0860-02	0	(n)		FIBER CABLES
231'	2	130	1	(P) JMA MX06FR0860-02	0	(P) SECTOR MOUNT	-	
	3	250°	1	(P) JMA MX06FR0860-02	0			
RAD CENTER	SECTOR	AZIMUTH (DEGREES)	QUANTITY	850 LTE / 850 5CNR (850 MHZ) ANTENNAS	MECH. DOWNTILT	MOUNT	COAX SIZE & QUANTITY	(P) (3) 1X2 HYBRID DC / FIBER JUMPERS FOR 8843 RRHs
	1	40"	SHARED	SHARED W/ 700 LTE/ 850 LTE	0	(-)	-	
231"	2	130"	SHARED	SHARED W/ 700 LTE/ 850 LTE	0	(P) SECTOR MOUNT		
	3	250°	SHARED	SHARED W/ 700 LTE/ 850 LTE	0			(P) (3) 1X2 HYBRID
RAD CENTER	SECTOR	AZIMUTH (DEGREES)	QUANTITY	700 LTE (700 MHZ) ANTENNAS	MECH. DOWNTILT	MOUNT	COAX SIZE & QUANTITY	DC / FIBER JUMPER FOR 4449 RRHs
	1	40"	1	(P) JMA MX06FR0860-02	0	(0)		
231'	2	130	1	(P) JMA MX06FR0860-02	0	SECTOR MOUNT		
	3	250	1	(P) JMA MX06FR0860-02	0			(P) (3) 1X4 HYBRID
RAD CENTER	SECTOR	AZIMUTH (DEGREES)	QUANTITY	PCS LTE (1900 MHZ) ANTENNAS	MECH. DOWNTILT	MOUNT	COAX SIZE & QUANTITY	FOR AIR6449 ANTENNA / RRHs
	1	40°	SHARED	SHARED W/ 700 LTE/ 850 LTE	0	(0)		
231'	2	1 30°	SHARED	SHARED W/ 700 LTE/ 850 LTE	0	(P) SECTOR MOUNT		
	3	250*	SHARED	SHARED W/ 700 LTE/ 850 LTE	0			
			QUANTITY	0VPs				
			3	(P) RAYCAP RCMDC-6627-PF-48 O	VP (EQUIP. LEVEL)		
			3	(P) RAYCAP RCMDC-6627-PF-48 O	VP (ANTENNA LEV	EL)		
			QUANTITY	RRHs				

3 (P) ERICSSON 4449 RRU (ANTENNA LEVEL)

3 (P) ERICSSON 8843 RRU (ANTENNA LEVEL)





TAMPA, FL 33614



P. MARSHALL & ASSOCIATES 1000 HOLCOMB WOODS PKWY, STE 210. ROSWELL GA 30076 OFFICE 678 230 2325

VERIZON SITE NUMBER: 585456

BU #: 809328 LAKE CITY W J-FL-012-058

> 555 HACKNEY LANE LAKE CITY, FL 32055

EXISTING 254'-0" SELF-SUPPORT TOWER

ISSUED FOR:							
ŒV	DATE	DRWN	DESCRIPTION	DES./Q			
A	5/27/2021	CW	LEASE EXHIBIT ISSUE	CW,			
0	6/10/2021	C/L,	ISSUED FOR PRELIMS	CW,			
1	7/23/2021	CW	ISSUED FOR FINALS	C/Z;			
		1					

W. MARSHALL No. 53573 ONAL ENGINEER STATE OF THE STATE

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

SHEET NUMBER:

REVISION:

NOTE:
DIRECT TOWER MOUNTED EQUIPMENT
MUST NOT TRAP OR INTERFERE WITH
CLIMBING PEGS/STEPS AND SAFETY
CLIMB. DO NOT OBSTRUCT BEACON
IF TOWER LIT. NOTE: NEW EQUIPMENT CANNOT BE MOUNTED TO TOWER RELOCATE EXISTING TOWER MOUNTED EQUIPMENT TO CUSTOMER MOUNT.

TOWER & ANTENNA STANDARD NOTES:

- TOWER STRUCTURAL ANALYSIS BY N/A, DATED N/A, PROJECT $\|$ N/A, NO NEW ANTENNAS OR EQUIPMENT INSTALLED WITHOUT APPROVAL OF STRUCTURAL ENGINEER AND CROWN CASTLE.
- . MOUNT ANALYSIS BY N/A, DATED N/A, PROJECT ∦ N/A. NO NEW MOUNTS OR MOUNT REINFORCEMENT INSTALLED WITHOUT APPROVAL OF STRUCTURAL ENGINEER AND CROWN CASTLE.
- INSTALLED EQUIPMENT MUST HAVE A WATCHING CROWN APPLICATION AND
- . VERIFY AZIMUTHS WITH RFDS.
- 2' ANTENNA SEPARATION REQUIRED. CONTRACTOR TO MOVE (E) ANTENNAS TO ENDS OF MOUNT AS REQUIRED.
- MOUNT COMPLANCE IS BY OTHERS. NO NEW ANTENNAS OR EQUIPMENT INSTALLED ON MOUNTS WITHOUT THE APPROVAL OF A STRUCTURAL ENGINEER.
- PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, (E) TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE PROPOSED LOADS. REFER TO STRUCTURAL ANALYSIS BY OTHERS
- PROPOSED ANTENNA PLACEMENT LOCATION TO BE FIELD VERIFIED BY GENERAL CONTRACTOR PRIOR TO CONSTRUCTION TO AVOID ANY INTERFERENCE OR SHADOWING OF EXISTING ANTENNAS. IF INTERFERENCE OR SHADOWING OF EXISTING ANTENNAS IS DISCOVERED DURING FIELD VERIFICATION, PLEASE CONTACT (A&E VENDOR) FOR DESIGN REVISION PRIOR TO ANY NEW ANTENNA INSTALLATION.
- DURING INSTALLATION, THE RADIOS ARE NOT TO EXCEED 5' FROM THE WORKING SURFACE TO THE TOP OF RADIOS.

APPLIES TO STEALTH/CONCEALMENT CANISTER TOWERS ONLY; HURRICANE BANDING REQUIRED. 3RD PARTY INSPECTOR REQUIRED. MUST BE SCHEDULED FOR SAME DAY AS PLANNED COMPLETE DATE. PRE-CONSTRUCTION PHOTOS ARE REQUIRED FOR SHROUDS.

APPLIES TO FLAG POLES ONLY:
LOAD PATH CONSIDERATION SHALL BE MADE AND CRITICAL COMPONENTS
ANALYZED WHEN FLAG AND ROPE ARE DIRECTLY ATTACHED TO

HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS IS NOT REQUIRED.

PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM PREVIOUS PLAN SETS OR FROM ASSESSORS MAPS. PM&A HAS NOT COMPLETED A SITE SURVEY AND THEREFORE MAKES NO CLAIMS AS TO THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET. CONTRACTOR SHALL FIELD VERIFY SITE PLAN & EQUIPMENT SHOWN AGAINST PRESENT FIELD CONDITIONS. IF PLANS DO NOT MARCH UP WITH SITE CONDITION AT TIME OF CONSTRUCTION, CONTACT VERIZON AND THE CROWN CASTLE

CONSTRUCTION EXIT - TO REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION AREA ONTO PUBLIC RIGHT-OF-WAYS, STREETS, ALLEYS, SIDEWALKS, OR PARKING AREAS.

TYPE C SEDIMENT BARRIER — TO PREVENT ANY SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE SITE AND ENTERING NATURAL DRAINAGE WAYS OR STORM DRAINAGE SYSTEMS.

DISTURBED AREA STABILIZATION (TEMPORARY) - TO ESTABLISH A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDLINGS ON DISTURBED AREAS.

DISTURBED AREA STABILIZATION (PERMANENT) - TO ESTABLISH A PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTNIRBED AREAS.

DISTURBED AREA DUST CONTROL — TO CONTROL THE SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADWAYS, AND SIMILAR SITES.

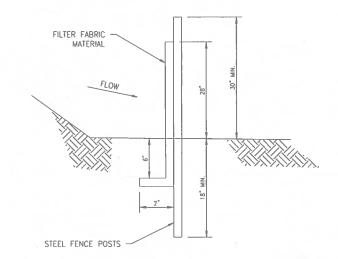
FLOOD PLAIN NOTE:

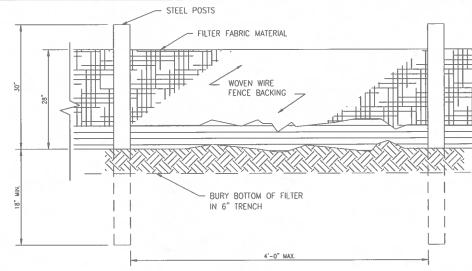
SITE APPEARS TO LIE WITHIN THE AREA SHOWN AS FLOOD ZONE "X". AREA OF MINIMAL FLOOD HAZARD PER THE FEMA NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE PROGRAM FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP FOR COMMUNITY PANEL NO.: 12023C0291D, DATED 11/2/2018.

DISTURBED AREAS LEFT IDLE SHALL BE STABILIZED WITH TEMPORARY VEGETATION AFTER 14 DAYS; AFTER 30 DAYS PERMANENT VEGETATION SHALL BE ESTABLISHED

EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN AND REPAIRED BY THE GENERAL

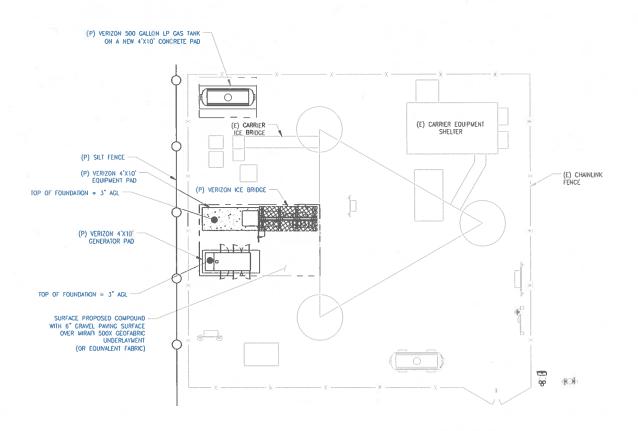
ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION





NOTE: USE 36" DOT APPROVED FABRIC USE STEEL POSTS

SILT FENCE, TYPE-C SCALE: NOT TO SCALE





7701 E. TELECOM PKWY. TEMPLE TERRACE, FL 33637



TAMPA, FL 33614



1000 HOLCOMB WOODS PKWY, STE 210, ROSWELL GA 30076 OFFICE 678-230-2325

VERIZON SITE NUMBER: 585456

BU #: 809328 LAKE CITY W J-FL-012-058

> 555 HACKNEY LANE LAKE CITY, FL 32055

EXISTING 254'-0" SELF-SUPPORT TOWER

ISSUED FOR:					
DATE	DRWN	DESCRIPTION	DES /Q		
5/27/2021	CW	LEASE EXHIBIT ISSUE	CW		
6/10/2021	C.R.	ISSUED FOR PRELIMS	C/L,		
7/23/2021	C.K.	ISSUED FOR FINALS	C/f/		
7/25/2021		ISSUED FOR PINALS	CI		
	5/27/2021 6/10/2021	DATE DRWN 5/27/2021 CW 6/10/2021 CW	DATE DRWN DESCRIPTION 5/27/2021 CW LEASE EXHIBIT ISSUE 6/10/2021 CW ISSUED FOR PRELIMS		



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SHEET NUMBER:

REVISION:

EROSION CONTROL PLAN

SCALE:





PIEDMONT VEGETATIVE COVERS

С	ALENDAR MONTH	TEMPORARY SEED	APPLICATION RATE/ACRE	PERMANENT SEED	APPLICATION RATE/ACRE
1.	JANUARY	RYE GRASS	40-50 LB.	UNHULLED BERMUDA SERICEA LESPEDEZA	2 8-10 LB. 1 30-40 LB. 1
2.	FEBRUARY			UNHULLED BERMUDA SERICEA LESPEDEZA FESCUE	8-10 LB. 30-40 LB. 30-50 LB.
3.	MARCH	RYE ANNUAL LESPEDEZA WEEPING LOVE GRASS	2-3 BU. 20-25 LB. 4-6 LB.	UNHULLED BERMUDA SERICEA LESPEDEZA FESCUE	8-10 LB. 30-40 LB. 30-50 LB.
4.	APRIL	RYE BROWN TOP MILLET ANNUAL LESPEDEZA SUDAN ANNUAL	2-3 BU. 30-40 LB. 20-25 LB. 35 LB.	WEEPING LOVE GRASS HULLED BERMUDA BAHIA	4-6 LB. 5-6 LB. 40-60 LB.
5.	MAY	WEEPING LOVE GRASS SUDAN GRASS BROWN TOP MILLET	4-6 LB. 35 LB. 30-40 LB.	WEEPING LOVE GRASS HULLED BERMUDA BAHIA	4-6 LB, 5-6 LB, 40-60 LB.
6.	JUNE	WEEPING LOVE GRASS SUDAN GRASS BROWN TOP MILLET	4-6 LB 35 LB 30-40 LB.	WEEPING LOVE GRASS HULLED BERMUDA BAHIA	4-6 LB. 5-6 LB. 40-60 LB.
7.	JULY	WEEPING LOVE GRASS SUDAN GRASS BROWN TOP MILLET	4-6 LB. 35 LB. 30-40 LB.		
8.	AUGUST	RYE GRASS WEEPING LOVE GRASS	40-50 LB. 4-6 LB.		
9.	SEPTEMBER			TALL FESCUE	30-50 LB.
10.	OCTOBER	WHEAT	2-3 BU.	UNHULLED BERMUDA SERICEA LESPEDEZA FESCUE	2 8-10 LB. 30-40 LB. 30-50 LB.
11.	NOVEMBER	WHEAT	2-3 BU.	UNHULLED BERMUDA SERICEA LESPEDEZA FESCUE	8-10 LB. 30-40 LB. 30-50 LB.
12	DECEMBER	RYE RYE GRASS WHEAT	2-3 BU. 40-50 LB. 2-3 BU.	UNHULLED BERMUDA SERICEA LESPEDEZA FESCUE	8-10 LB 30-40 LB. 30-50 LB.

¹ USE A MINIMUM OF 40 LBS. SCARIFIED SEED. THE REMAINDER MAY BE UNSCARIFIED, CLEAN HULLED SEED.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

GENERAL

THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES, SHOULDERS, AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

SOIL CONDITIONS

DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOIL AND SUBSTRATES. FERTILITY IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL ARE UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS.

TREATMENT SPECIFICATIONS

HYDRAULIC SEEDING EQUIPMENT: WHEN HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED, NO GRADING AND SHAPING OR SEEDBED PREPARATION WILL BE REQUIRED. THE FERTILIZER, SEED AND WOOD CELLULOSE FIBER MULCH WILL BE MIXED WITH WATER AND APPLIED IN A SLURRY. ALL SLURRY INGREDIENTS MUST BE COMBINED TO FORM A HOMOGENOUS MIXTURE, AND SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER MIXTURE IS MADE. STRAW OR HAY MULCH AND ASPHALT EMULSION WILL BE APPLIED WITH BLOWER-TYPE MULCH SPREADING EQUIPMENT WITHIN 24 HOURS AFTER SEEDING. THE MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

A. SEEDING WITH MULCH: (HYDRAULIC SEEDING EQUIPMENT ON SLOPES 3:1 AND STEEPER)

AGRICULTURAL LIMESTONE ∦75 FERTILIZER, 5-10-15 MULCH (STRAW OR HAY) OR	1500 5000	LBS./ACRE LBS./ACRE LBS./ACRE
WOOD CELLULOSE FIBER MULCH		LBS./ACRE

SEED SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
SERICEA LESPEDEZA, SCARIFIED WEEPING LOVE GRASS, OR COMMON BERMUDA, HULLED	60 LBS. 4 LBS. 6 LBS.	3/1 - 6/15
FESCUE SERICEA LESPEDEZA, UNSCARIFIED	40 LBS. 60 LBS.	9/1 - 10/3
FESCUE SERICEA LESPEDEZA, UNSCARIFIED RYE	40 LBS. 75 LBS. 50 LBS.	11/1 - 2/28
HAY MULCH FOR TEMPORARY COVER	5000 LBS.	6/15 - 8/3

B. TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL

FERTILIZER (AMMONIUM NITRATE 33.5%) 300 LBS./ACRE

C. SECOND-YEAR TREATMENT:

FERTILIZER (0-20-20 OR EQUIVALENT) 500 LBS./ACRE

GENERAL

THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES, SHOULDERS, AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

SOIL CONDITIONS

DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOIL AND SUBSTRATES. FERTILITY IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL ARE UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS.

TREATMENT SPECIFICATIONS

CONVENTIONAL SEEDING EQUIPMENT: GRADE, SHAPE, AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED, AND FIRMED. SEEDING WILL BE DONE WITH A CULTIPACKER—SEEDER, DRILL, ROTARY SEEDER, OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY. WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER—TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

A. SEEDING WITH MULCH: (CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1)

AGRICULTURAL LIMESTONE #75 FERTILIZER, 5-10-15 MULCH (STRAW OR HAY) 4000 LBS./ACRE 1500 LBS./ACRE 5000 LBS./ACRE

SEED SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
HULLED COMMON BERMUDA GRASS	10 L8S.	3/1 - 6/15
FESCUE	50 LBS.	9/1 - 10/31
FESCUE RYE GRASS	50 LBS. 50 LBS.	11/1 - 2/28
HAY MULCH FOR TEMPORARY COVER	5000 LBS.	6/15 - 8/31

B. TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL

FERTILIZER (AMMONIUM NITRATE 33.5%) 300 LBS./ACRE

C. SECOND-YEAR TREATMENT:

FERTILIZER (5-10-15 OR EQUIVALENT)

800 LBS./ACRE

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)







VERIZON SITE NUMBER: 585456

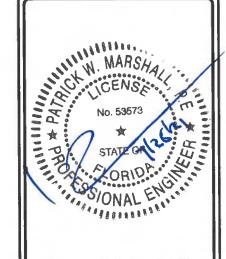
OFFICE 678-230-2325

BU #: 809328 LAKE CITY W J-FL-012-058

555 HACKNEY LANE LAKE CITY, FL 32055

EXISTING 254'-0" SELF-SUPPORT TOWER

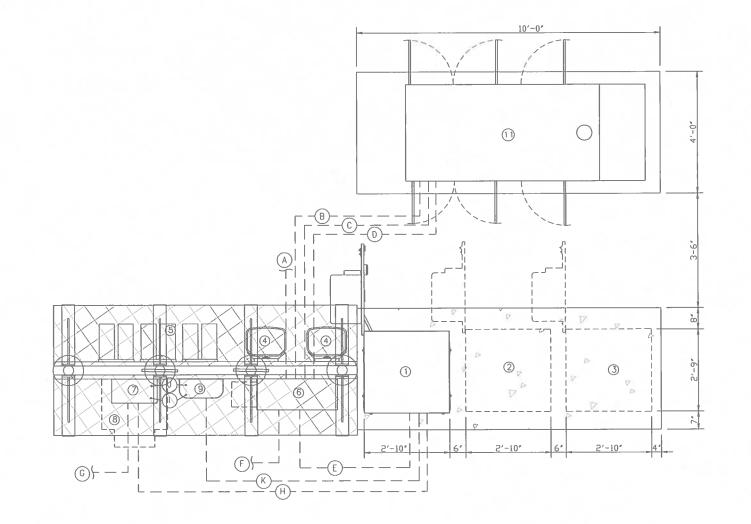
DES./QA
SUE CW
1712 C.M.
ILS CW



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² USE EITHER COMMON SERALA OR INTERSTATE SERICEA LESPEDEZA.



		UNDERGROUND CONDUIT SC	CHEDULE	
NO.	SIZE	FROM	ТО	FOR
Α	2"	METER	200A DISCONNECT SWITCH	POWER
8	2"	200A DISCONNECT SWITCH	200A ILC PANEL	POWER
В	1 ½"	ILC	GENERATOR ATS	POWER
С	1"	ILC	GENERATOR	POWER, HEATER & BATT
D	1"	ILC	GENERATOR	CONTROL / ALARMS
Ε	1"	ILC	PRIMARY CABINET	GEN. ILC ALARMS
F	1"	ILC	GFCI / LIGHT	POWER
G	2"	TELCO BOX	VZW DARK FIBER H.H.	TELCO
Н	2"	TELCO BOX	EQUIPMENT CABINETS	TELCO
-	1-1/4"	TELCO BOX	FIBER (N.I.U)	TELCO
J	1-1/4"	TELCO BOX	FIBER (N.I.U)	TELCO
K	1-1/4"	EQUIPMENT CABINET	FIBER (N.I.U)	POWER

LEGEND

1) PRIMARY CABINET

BATTERY CABINET
 GROWTH CABINET
 OVP (PROPOSED)

(6) ILC CABINET

GENERATOR

LP GAS TANK

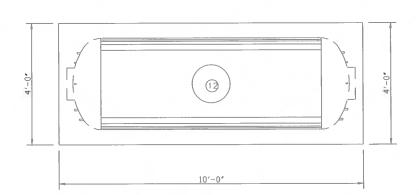
(S) (RESERVE SPACE FOR FUTURE GROUND RADIOS)

7 DARK FIBER JUNCTION BOX

CABINET IF NECESSARY)

(B) RESERVE PLACE FOR CHARLES TELCO
(G) FIBER DEMARC FOR TELCO (AS REQUIRED)
(TO METER & DISCONNECT SWITCH (AS REQUIRED))

(RESERVE SPACE FOR CHARLES TELCO









P. MARSHALL & ASSOCIATES 1000 HOLCOMB WOODS PKWY, STE 210, ROSWELL, GA 30076 OFFICE 678-230-2325

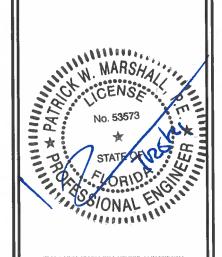
VERIZON SITE NUMBER: 585456

BU #: 809328 LAKE CITY W J-FL-012-058

> 555 HACKNEY LANE LAKE CITY, FL 32055

EXISTING 254'-0" SELF-SUPPORT TOWER

REV	DATE	DRWN'	DESCRIPTION	DES/Q
A	5/27/2021	CW.	LEASE EXHIBIT ISSUE	€#C
0	6/10/2021	CW	ISSUED FOR PRELIMS	C/L,
1	7/23/2021	CR.	ISSUED FOR FINALS	CW

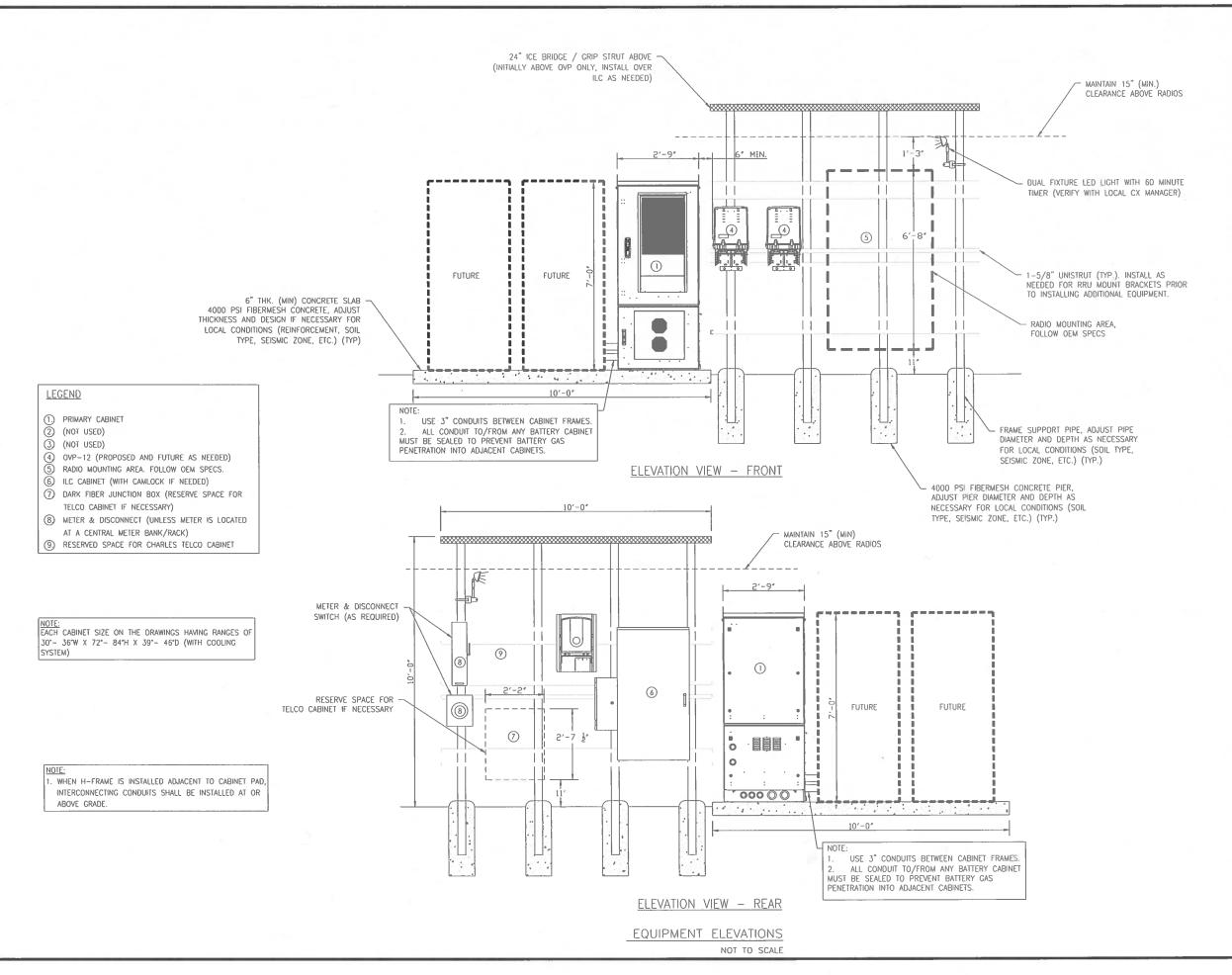


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REVISION:

SHEET NUMBER:

EQUIPMENT LAYOUT & CONDUIT PLAN SCALE:









ROSWELL, GA 30076

OFFICE 678-230-2325

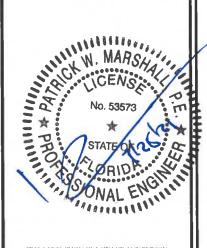
VERIZON SITE NUMBER: 585456

BU #: **809328** LAKE CITY W J-FL-012-058

> 555 HACKNEY LANE LAKE CITY, FL 32055

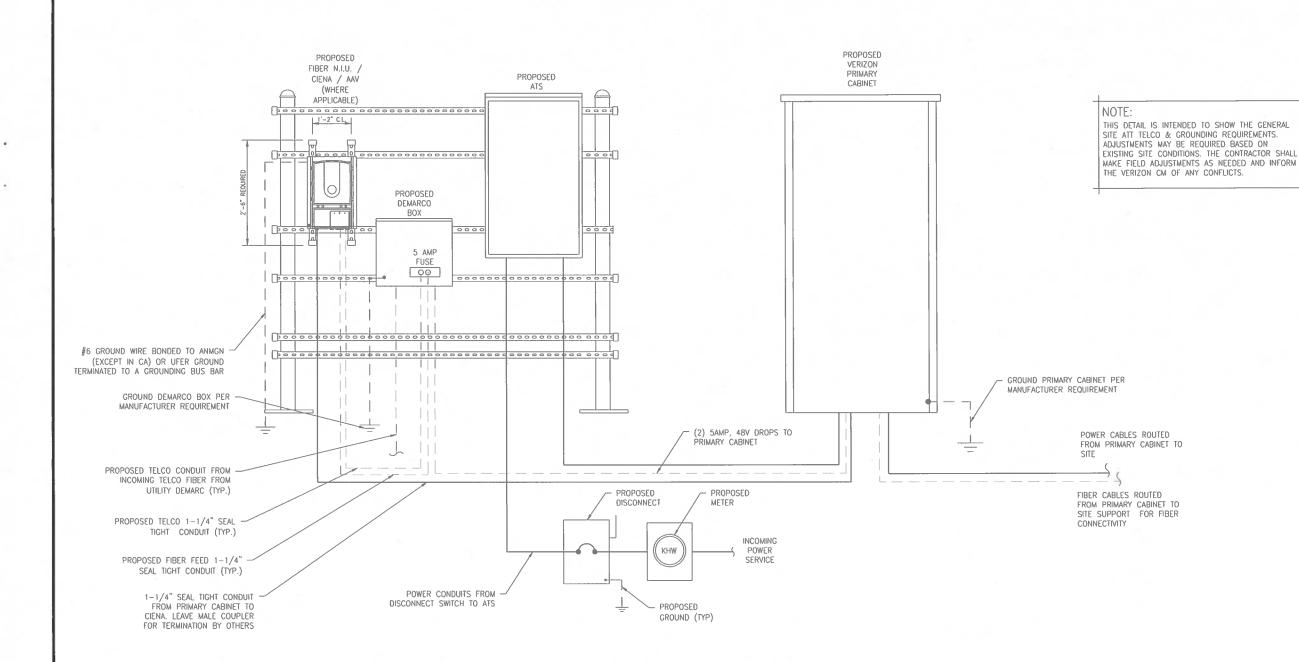
EXISTING 254'-0" SELF-SUPPORT TOWER

REV	DATE	DRWN	DESCRIPTION	DES/Q:
A	5/27/2021	CW	LEASE EXHIBIT ISSUE	C/II/
0	6/10/2021	CW.	ISSUED FOR PRELIMS	C/II'
1	7/23/2021	C/L.	ISSUED FOR FINALS	C/L,



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SHEET NUMBER:



EQUIPMENT POWER, TELCO & GROUNDING SCHEMATIC

NOT TO SCALE





TAMPA, FL 33614



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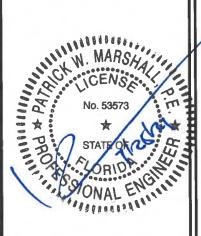
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555 HACKNEY LANE LAKE CITY, FL 32055

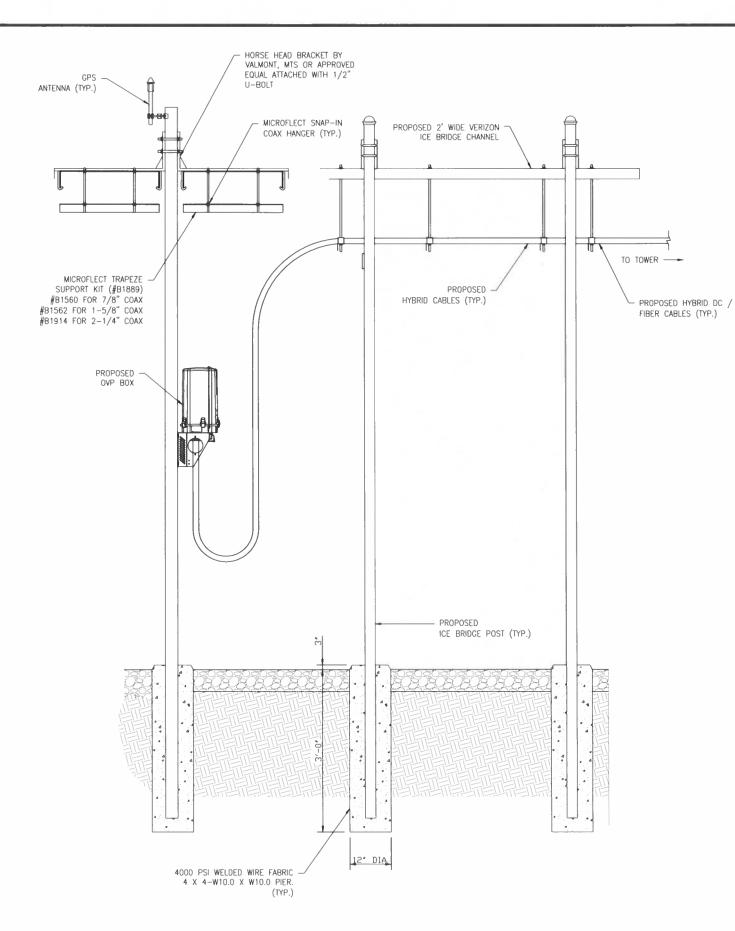
EXISTING 254'-0" SELF-SUPPORT TOWER

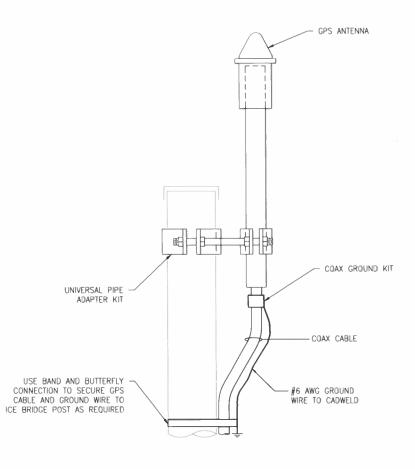
REV	DATE	DRWN	DESCRIPTION	DFS/Q/
Α	5/27/2021	CW	LEASE EXHIBIT ISSUE	CW.
0	6/10/2021	CW.	ISSUED FOR PRELIMS	C/K,
1	7/23/2021	CW,	ISSUED FOR FINALS	C/L,



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SHEET NUMBER:





GPS ANTENNA MOUNTING DETAIL

NOT TO SCALE





TAMPA, FL 33614



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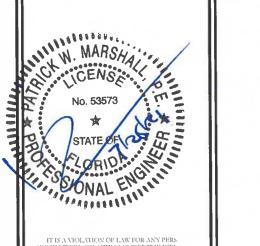
VERIZON SITE NUMBER: 585456

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> 555 HACKNEY LANE LAKE CITY, FL 32055

EXISTING 254'-0" SELF-SUPPORT TOWER

	ISSUED FOR:							
REV	DATE	DRWN	DESCRIPTION	DES/QA				
Α	5/27/2021	CW.	LEASE EXHIBIT ISSUE	C/L.				
0	6/10/2021	CW.	ISSUED FOR PRELIMS	C/II'				
1	7/23/2021	CW.	ISSUED FOR FINALS	C/L.				



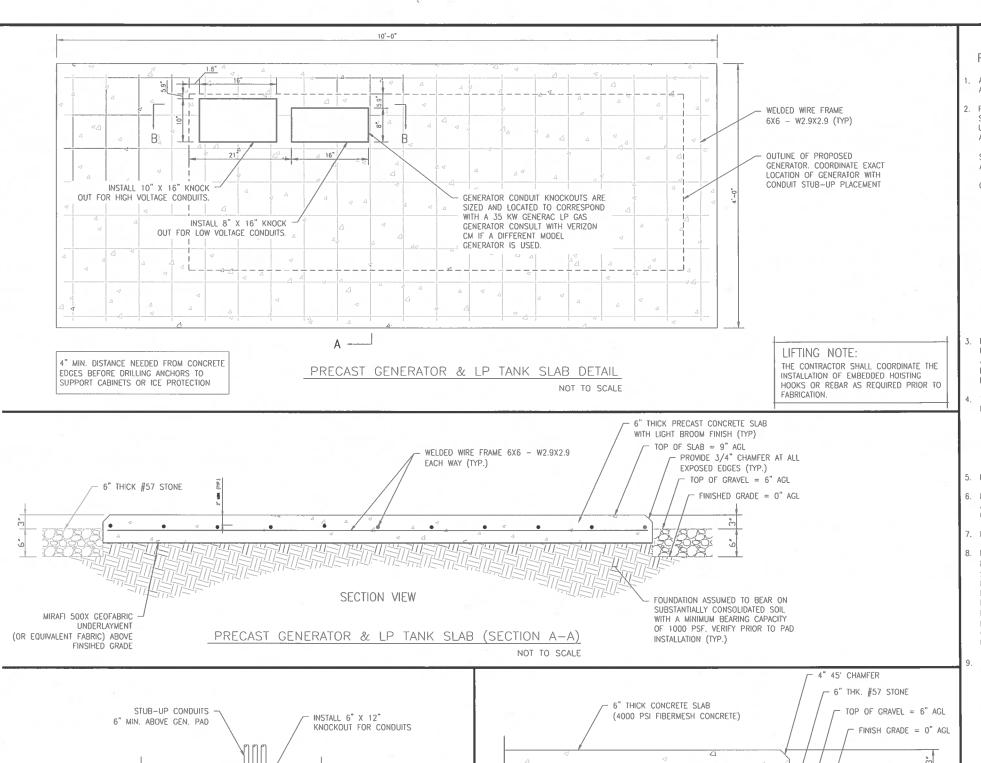
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SHEET NUMBER:

REVISION:

ICE BRIDGE DETAILS

NOT TO SCALE



CONDUIT STUB-UP FOR GENERATOR SLAB (SECTION B-B)

NOT TO SCALE

MIRAFI 500X GEOFABRIC PREPARED SUBGRADE COMPACTED UNDERLAYMENT TO 95% MAXIMUM DRY DENSITY (OR EQUIVALENT FABRIC) ABOVE (PER MODIFIED PROCTOR ASTM FINSIHED GRADE D1557/AASHTO T180) EQUIPMENT CONCRETE SLAB SECTION NOT TO SCALE

REINFORCED CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185, IBC 2006.
- PRECAST CONCRETE FOR SLABS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE TESTING IS NOT REQUIRED UNLESS NOTED OTHERWISE OR REQUIRED BY THE JURISDICTION HAVING

SLUMP - 4" MIN. / 6" MAX. AIR ENTRAINMENT - 2% TO 3% BY VOLUME

CLASSES OF CONCRETE

CLASS	28 DAY STRENGTH (PSI)	MAX WATER/CEMENT RATIO	PLACEMENT LOCATION	NOTES
TYPE I	3000	0.55	PRECAST SLABS	NORMAL WEIGHT
TYPE III *	5000	0.45	SITE CAST SLABS & POST FOOTINGS	HIGH EARLY STRENGTH

- * IF REQUIRED BY THE CONSTRUCTION SCHEDULE THE CONTRACTOR MAY SUBSTITUTE TYPE III HIGH EARLY STRENGTH CONCRETE WITH THE APPROVAL OF THE CONSTRUCTION MANAGER.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES FOR REBAR SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO. LAPS FOR WELDED WIRE FABRIC SHALL BE AT LEAST 8 INCHES, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE	CAST AGAINST EARTH	
CONCRETE	EXPOSED TO EARTH OR WEATHER	
#6 AND	LARGER	2"
#5 AND	SMALLER & W.W.F1-1,	/2"

- MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4"
- MAINTAIN THE TEMPERATURE OF CAST IN PLACE CONCRETE AT BETWEEN 50 AND 90 DEGREES FAHRENHEIT. IF COLDER OR HOTTER CONDITIONS EXIST, THE CONCRETE MIX DESIGN SHALL BE ADJUSTED ACCORDINGLY.
- . DO NOT USE RETEMPERED CONCRETE.
- INSTALLATION OF CONCRETE ANCHORS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO THE ANCHOR MANUFACTURER'S SPECIFICATIONS FOR MATERIAL STRENGTH, EMBEDMENT DEPTH, SPACING, AND EDGE DISTANCE OR AS DETAILED ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD, HILTI, OR APPROVED EQUAL. IF THE MANUFACTURER'S SPECIFICATIONS AND DETAILS ARE FOUND TO CONFLICT WITH THAT SHOWN HEREIN, THE ENGINEER SHALL BE NOTIFIED
- THE CONTRACTOR SHALL VERIFY FROST LINE AND FOOTING DEPTH REQUIREMENTS WITH THE JURISDICTION HAVING AUTHORITY PRIOR TO CONSTRUCTION.





TAMPA, FL 33614



1000 HOLCOMB WOODS PKWY, STE 210, ROSWELL GA 30076 OFFICE 678-230-2325

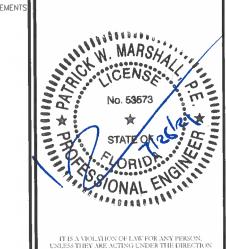
VERIZON SITE NUMBER: 585456

BU #: 809328 LAKE CITY W J-FL-012-058

> 555 HACKNEY LANE LAKE CITY, FL 32055

EXISTING 254'-0" SELF-SUPPORT TOWER

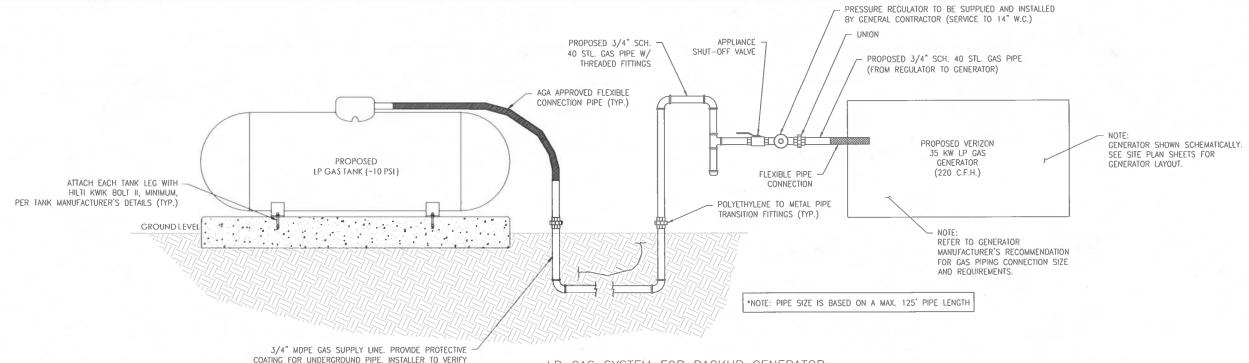
REV	DATE	DRWN'	DESCRIPTION	DES/Q
A	5/27/2021	C.W.	LLASE EXHIBIT ISSUE	CW.
0	6/10/2021	CM.	ISSUED FOR PRELIMS	C/L,
1	7/23/2021	C/K.	ISSUED FOR FINALS	C/I



SHEET NUMBER:

REVISION:

OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.



GENERAL NOTES:

- 1. MAINTAIN MINIMUM 1'-0" VERTICAL AND 1'-0" HORIZONTAL SEPARATION OF GAS LINE FROM OTHER UTILITIES.
- 2. CONNECTION POINT MAY VARY WITH GENERATOR MANUFACTURER.
- 3. MAINTAIN 3' SERVICE CLEARANCE ON ALL SIDES OF GENERATOR.
- 4. GENERAL CONTRACTOR SHALL ANCHOR GENERATOR BASE4 TO SLAB OR PLATFORM WITH
- 5. CONTRACTOR SHALL VERIFY LOCATION OF ALL EQUIPMENT PRIOR TO INSTALLATION
- 6. CONTRACTOR SHALL COORDINATE INSTALLATION WITH GAS COMPANY & OTHER DISCIPLINES.
- 7. CONTRACTOR SHALL ADHERE TO APPLICABLE STATE & LOCAL CODES.
- 8. COORDINATE LOCATION OF GAS PIPE WITH OTHER UTILITIES.
- 9. FLEXIBLE CONNECTION TO BE SAME SIZE AS PIPING TIE-IN THAT IS PROVIDED BY THE GENERATOR SUPPLIER.
- 10. CONTRACTOR TO VERIFY GAS PRESSURE PER NOTE ON "GAS PIPE SIZING SCHEDULE".
- 11. GENERATOR TO BE LOCATED A SUITABLE DISTANCE FROM ANY ROOF PENETRATIONS IN ACCORDANCE WITH NEPA
- 12. CONTRACTOR TO PROVIDE LOW POINT DRAINS AND HIGH POINT VENTS PER NFPA AND AGA CODES.

SPECIFICATIONS:

1. PIPE (LOW-PRESSURE): STEEL PIPE; ASTM A53, TYPE OR S, ELECTRIC-RESISTANCE WELDED OR SEAMLESS, GRADE A OR B. SCHEDULE 40 GALVANIZED STEEL, PAINTED YELLOW.

GENERATOR REQUIRED FLOW RATE PRIOR TO INSTALLATION.

SUPPLY LINE SHALL BE BURIED 3' MIN. BELOW GRADE

AND MARKED WITH BURIED FLAGGING AT 3' O.C. 12"

BELOW GRADE

- A. GRAY-IRON THREAD FITTINGS: ASME B16.4, CLASS 125, CALVANIZED STANDARD PATTERN.
 B. UNIONS: ASME B16.39, CLASS 150, BLACK MALLEABLE IRON, FEMALE PATTERN, BRASS TO IRON SEAT, GROUND JOINT.
- TRANSITION FITTINGS: TYPE, MATERIAL, AND END CONNECTIONS TO MATCH PIPING BEING JOINED.
- D. PROVIDE DI-ELECTRIC UNIONS WHERE REQUIRED BETWEEN DIFFERENT METALLIC PIPE MATERIALS.
- 3. PIPE (UNDERGROUND): POLYETHYLENE PIPE; ASTM D 2513, SDR 11 OR IN ACCORDANCE WITH LOCAL CODES AND REGULATIONS.
- 4. POLYETHYLENE FITTINGS (UNDERGROUND): ASTM D 2683, SOCKET TYPE OR ASTM D 3261, BUTT TYPE WITH DIMENSIONS MATCHING ASTM D 2513, SDR 11, POLYETHYLENE PIPE.
- 5. TRANSITION FITTINGS: MANUFACTURED PIPE FITTING FOR CONNECTION TO POLYETHYLENE PIPE AND WITH ONE ASTM A 533 / A 53M. SCHEDULE 40, GALVANIZED STEEL PIPE END FOR THREADED CONNECTION TO GALVANIZED STEEL PIPE.
- 6. SERVICE-LINE RISER: MANUFACTURED PIPE FITTING WITH POLYETHYLENE PIPE INLET FOR CONNECTION TO UNDERGROUND POLYETHYLENE PIPE RISER SECTION WITH PROTECTIVE-COATED, ANODES, STEEL CASING AND THREADED OUTLET FOR THREADED CONNECTION TO ABOVE GROUND STEEL PIPING.

LP GAS SYSTEM FOR BACKUP GENERATOR

NOT TO SCALE

GENERATOR INSTALLATION RESPONSIBILITIES:

. DELIVERY AND SET UP OF GENERATOR.

GENERAL CONTRACTOR:

- RUNS STUB-UPS FOR LP GAS TO GENERATOR.
- COORDINATE DELIVERY OF LP GAS LINE TO THE SITE.
- PULLS ALARM WIRES, START CIRCUIT WIRES, CONTROL CIRCUIT WIRES, AND LINE VOLTAGE WIRES FROM THE PPC TO THE
- ATS AND TO THE GENERATOR. HOME RUNS WIRES BACK TO THE ATS.
- 4. GROUNDS FOR GENERATOR.

GENERATOR MANUFACTURER CERTIFIED ELECTRICIAN:

- COMPLETES FUEL CONNECTIONS.
 TERMINATES ALARMS AND CONTROL CIRCUITS TO THE GENERATOR.
- INSTALL FUEL REGULATORS.
- 4. FINAL INSPECTION AND START UP.
- 5. NOTIFY OPERATIONS (CELL TECHS) TWO DAYS PRIOR TO START-UP SCHEDULE, PLAN ON CELL TECH ARRIVAL EARLY
- AFTERNOON, IF START-UP PROBLEMS OCCUR, NOTIFY CELL TECH OF DELAY BEFORE NOON.
- 6. RUN LOAD TEST (ADDITIONAL COST TO VERIZON) AS REQUIRED, MOSTLY IN CORE.
- 7. EMAIL COPY OF START-UP CHECK OFF LIST TO VERIZON.

- 1. CELL TECH TO PUNCH DOWN ALL ALARMS IN CROSS CONNECT AND BTS.
- CELL TECH TO VERIFY START-UP AND SIGN OFF ACCEPTING GENERATOR.
 CELL TECH TO NOTIFY VIA TEXT MESSAGING OF ACCEPTANCE.

GENERATOR MANUFACTURER / VERIZON WIRELESS START-UP PROCEDURES:

NOTE: BEFORE RUNNING GENERATOR OR INTERRUPTING POWER, NOTIFY THE NETWORK OPERATIONS CENTER (NOC) AND APPROPRIATE CELL TECH.

- 1. INSPECT ALL CONNECTING CIRCUITS (GROUND LEADS START LEADS BLOCK HEATER BATTERY CHARGER POWER OUTLET LEADS) AND ANCHORING OF THE GENERATOR.
- 2, VERIFY ALL CIRCUITS ARE TERMINATED CORRECTLY AND CORRECT WIRE SIZES ARE USED, THE BATTERY IS CONNECTED, THE CHARGER ACTIVATED AND 3. CHECK ALL LIQUID LEVELS
- 4 PLACE ATS IN THE MANUAL MODE AND PROGRAMMED TO SET THE EXERCISER CLOCK TO OPERATE EVERY TWO WEEKS FOR ONE HOUR UNDER LOAD. 5. FLIFT SYSTEM IS INSPECTED AND CHECKED FOR LEAKS, VERIFY CORRECT PRESSURE (4 TO 6 OUNCES) AND VERIFY PIPE SIZE.
- 6. DOCUMENT THE MODEL AND SERIAL NUMBER (SEND INFORMATION TO OPS AND BTS ENGINEER).
- 7. PREPARE FOR A NO LOAD (MANUAL) START-UP IF REQUIRED.
- 8. VERIFY ATS IS IN MANUAL CONTROL POSITION.
- START UP GENERATOR MANUALLY AND VERIFY VOLTAGE AND FREQUANCY. SET VOLTAGE FOR 230 VOLTS AND FREQUANCY FOR 60 HERTZ.
- 10. VERIFY ENGINE RUN ALARM IS ACTIVATED AND THERE IS CONTINUITY TO TELCO BOX.
- 11. INDUCE LOW OIL PRESSURE, HIGH WATER TEMP, OVER/UNDER VOLTAGE/FREQUANCY FAULTS SEPARATELY AND VERIFY THE ALARM IS ACTIVATED AND HAS CONTINUITY TO TELCO BOX.
- 12. PLACE ATS CONTROLS IN AUTOMATIC
- 13. MANUALLY DISCONNECT COMMERCIAL POWER AND VERIFY GENERATOR TRANSFER.
- 14. ALLOW GENERATOR TO RUN UNDER LOAD FOR ONE HOUR IF REQUIRED AND RECORD LOAD, COOLANT TEMPERATURE AND VOLTAGE (SEND INFORMATION TO OPS).
- 15. RESTORE COMMERCIAL POWER AND CHECK FOR TRANSFER, GENERATOR WILL REMAIN RUNNING FOR APPROXIMATELY 5 MINUTES FOR COOL DOWN. 16. COMPLETE ALL REQUIRED START-UP DOCUMENTATION LOCATED IN THE MANUAL, SCAN INTO JOB FILE AND EMAIL COPY TO KATOLIGHT AND OPS.
- 17. CONTACT OPS TWO DAYS PRIOR TO TESTING.







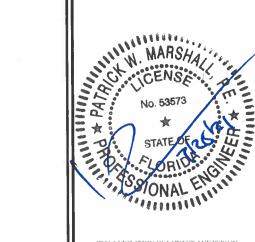
VERIZON SITE NUMBER: 585456

BU #: 809328 LAKE CITY W J-FL-012-058

> 555 HACKNEY LANE LAKE CITY, FL 32055

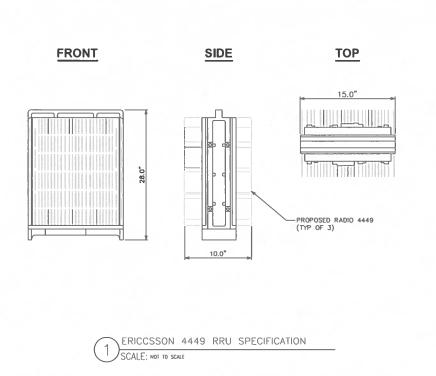
EXISTING 254'-0" SELF-SUPPORT TOWER

REV	DATE	DRWN	DESCRIPTION	DES/O
DALL				
A	5/27/2021	CW	LEASE EXHIBIT ISSUE	C.R.
0	6/10/2021	C.M.	ISSUED FOR PRELIMS	C/II/
1	7/23/2021	C.M.	ISSUED FOR FINALS	C/L,



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SHEET NUMBER:



ERICSSON RADIO 4449

ERICSSON

RADIO 4449 B13/B5 28.0"x15.0"x10.0" 70.0 lbs

MAKE: MODEL:

ERICSSON RADIO 8843

RADIO 8843 B2/B66A 28.0"x15.0"x10.0" 75.0 lbs

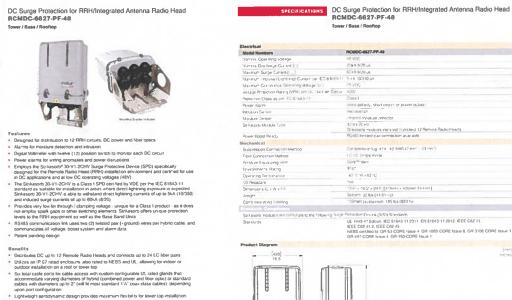
MAKE:

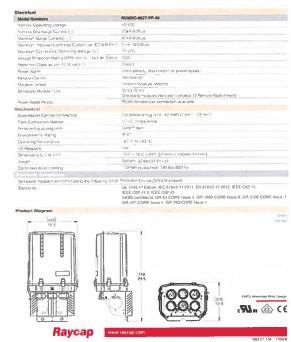
DIMENSIONS, HxWxD: WEIGHT:

DIMENSIONS, HxWxD: WEIGHT:

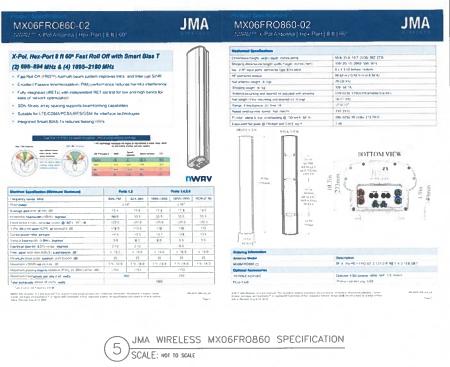


Raycap www.reycap.com















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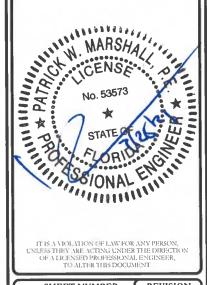
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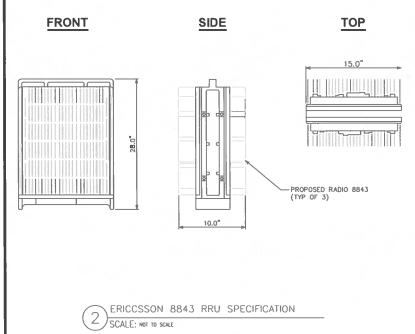
555 HACKNEY LANE LAKE CITY, FL 32055

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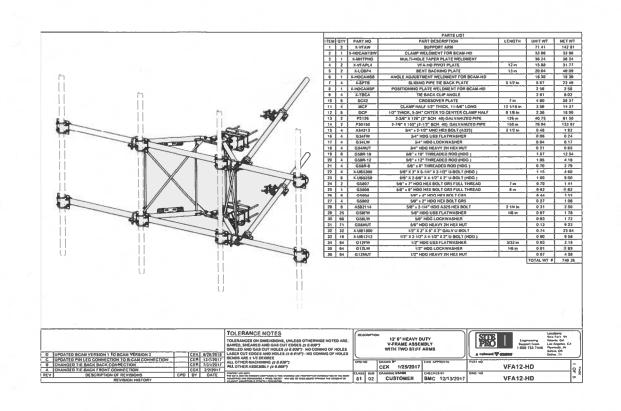
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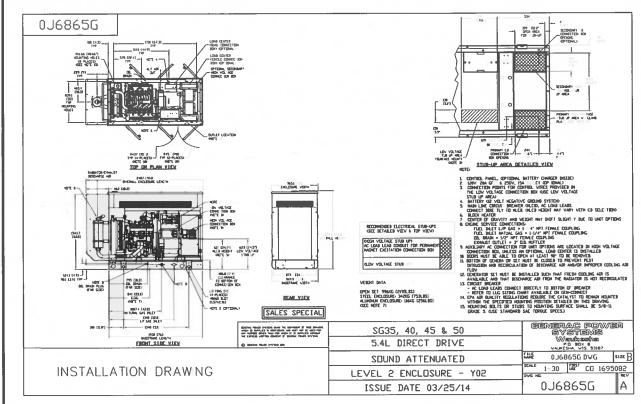






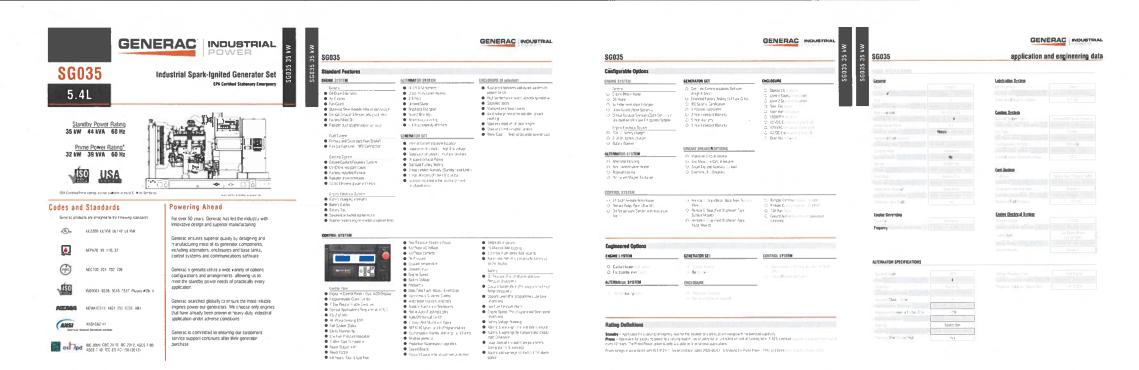
SITE PRO 1 VFA12-HD SECTOR MOUNT SPECIFICATION

SCALE: NOT TO SCALE



GENERAC SG035 LP GAS GENERATOR ENCLOSURE SPECIFICATIONS

SCALE: NOT TO SCALE







4511 N HIMES AVE, SUITE 210 TAMPA, FL 33614



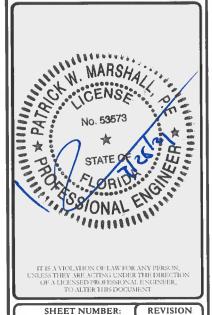
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EXISTING 254'-0" SELF-SUPPORT TOWER

ISSUED FOR:							
DRWN	DESCRIPTION	DIST					
CW	LILASE EXHIBIT ISSUE	CIT					
20123	ISSUED FOR PREMINS	30.77					
	ISSURB FOR PISALS	C//					
	DRWN CW	CW LEASE EXHIBIT ISSUE GW: ISSUED FOR PRELIMS					



SHEET NUMBER:

13

SITE PLAN DISCLAIMER

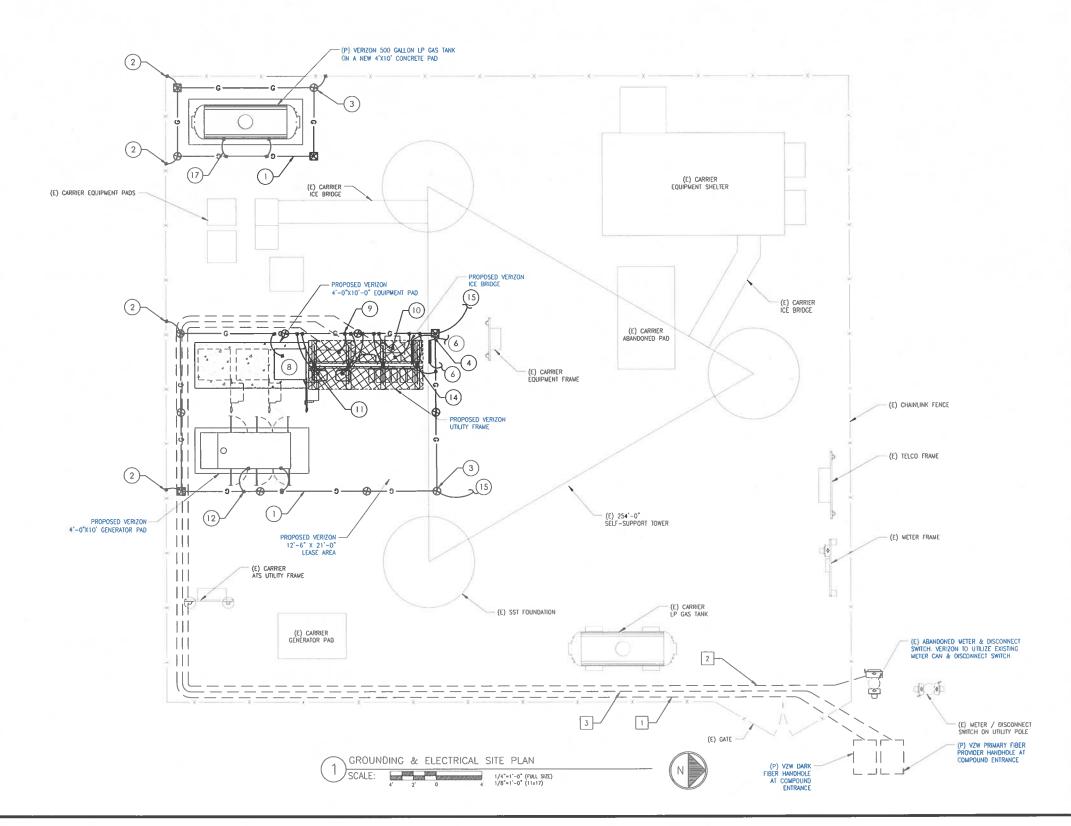
PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM PREVIOUS PLAN SETS OR FROM ASSESSORS MAPS. PM&A HAS NOT COMPLETED A SITE SURVEY AND THEREFORE MAKES NO CLAMS AS TO THE ACCURACY OF INFORMATION DEPORTED ON THIS SHEET. CONTRACTOR SHALL FIELD VERIFY SITE PLAN & EQUIPMENT SHOWN AGAINST PRESENT FIELD CONDITIONS IF PLANS DO NOT MATCH UP WITH SITE CONDITION AT TIME OF CONSTRUCTION, CONTACT VERIZON AND THE CROWN CASTLE CM.

GROUNDING KEY NOTES

- 1 #2 AWG BARE TINNED SOLID COPPER GROUND RING BURIED 30" BELOW GRADE (TYP)
- GROUND ALL FENCE POSTS TO GROUND RING WITH CADWELD CONNECTION (AS REQUIRED).
- PROPOSED GROUND ROD (TYP.)
- PROPOSED GROUND ROD WITH INSPECTION WELL (TYP.)
- (5) N/A
- 6 BOND TOWER MOUNTED GROUND BAR TO EXISTING TOWER GROUND RING (TYP. 2).
- GROUND BATTERY CABINET TO NEW GROUND RING PER MANUFACTURER'S SPECIFICATIONS.
- B GROUND EQUIPMENT CABINET TO NEW GROUND RING PER MANUFACTURER'S SPECIFICATIONS
- GROUND 200A ILC TO GROUND BAR PER MANUFACTURER'S SPECIFICATIONS.
- GROUND TELCO CABINET & BUSS BAR TO GROUND BAR PER MANUFACTURER'S SPECS.
- GROUND OVP TO GROUND RING PER MANUFACTURER'S SPECS.
- PROPOSED #2 AWG BARE TINNED SOLID COPPER WIRE: 2-HOLE LUG CONNECTION TO GENERATOR BASE FRAVE, CADWELD CONNECTION TO NEW GROUND RING (TYP.)
- (13) BOND EACH ICE BRIDGE SECTION TOGETHER WITH JUMPERS. BOND FIRST AND LAST SECTION TO CROUND RING.
- BOND COAX GROUND BAR TO GROUND RING WITH \$2 AWG SOLID BARE TINNED COPPER WIRE (TYP 2 PLACES)
- BOND EVERY ICE BRIDGE / UTILITY FRAME POST BASE TO GROUND RING WITH CADWELD.
- GROUND EQUIPMENT GROUND RING TO ALL ADJACENT GROUND RINGS (TYP. OF 2 PLACES)
- PROPOSED #2 AWG BARE TINNED SOUD COPPER GROUND WIRE FROM LP GAS TANK TO GROUND RING. (TYP OF 2 PLACES)

ELECTRICAL KEY NOTES

- 1 PROPOSED (2) 2" SCH. 40 PVC CONDUIT W/ THREE-CELL MAXCELL & MULE TAPE FOR VERIZON DARK FIBER ROUTED FROM THE VZW EQUIPMENT FRAME TO THE FIBER HANDHOLE AT THE COMPOUND ENTRANCE (APPROX. 120" LONG)
- 2 PROPOSED 2" SCH. 40 PVC CONDUIT FROM THE VERIZON METER / DISCONNECT SWITCH TO THE VZW AC PANEL. COORDINATE THAN MEET POINT FOR VZW METER & DISCONNECT SWITCH WITH LOCAL UTILITY COMPANY (APPROX. 110" LONG, AS SHOWN)
- PROPOSED 2" SCH. 40 PVC CONDUIT W/
 THREE-CELL MAXCELL & MULE TAPE FOR PRIMARY FIBER PROMDER ROUTED FROM THE PROPOSED FIBER HANDHOLE AT THE COMPOUND ENTRANCE TO THE VERIZON EQUIPMENT FRAME INSTALL AS REQUIRED. (APPROX. 120' LONG, AS SHOWN)









P. MARSHALL & ASSOCIATES 1000 FIOLCOMB WOODS PKWY: STE 210, ROSWELL, GA 30076 OFFICE 678-230-2325

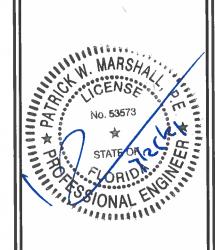
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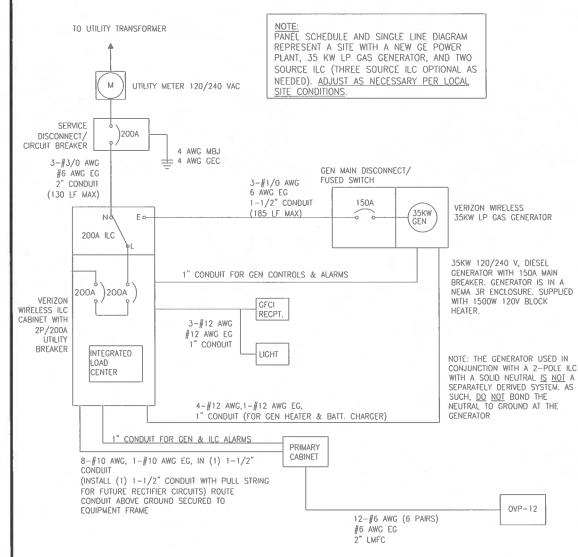
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ă.	7/23/2021	C.IL.	ISSUED FOR FINALS	CIL,



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SHEET NUMBER:

COMMON V2W DC PLANT RECTIFIER REQUIREMENTS						
RECTIFIER	INPUT FLA CURRENT AT 240 VAC (EACH RECTIFIER)	2 RECT / BRANCH CIRCUIT (PREFERRED_APPROACH)	1 RECT / BRANCH CIRCUI (ALT APPROACH)			
GE 75A NE075AC48xxxx or sim)	22 AMPS (MAX)	60A/2P #3 THHN	30A/2P #10 THHN			



ELECTRICAL SINGLE LINE DIAGRAM

NOTES:
1. ALL EQUIPMENT SHALL BE NEMA 3R RATED.

- ALL EQUIPMENT SHALL BE LIGHTNING PROTECTED IN ACCORDANCE WITH TIA-222-G AND VERIZON WIRELESS STANDARDS
- CONDUCTOR SIZES AND DISTANCES HAVE BEEN SIZED FOR 3% MAX VOLTAGE DROP (TOTAL SYSTEM VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST DEMAND SHALL NOT EXCEED 5%).
- WIRE SIZING AND MAXIMUM DISTANCE FROM GENERATOR TO ILC ASSUMES POWER FACTOR OF 0.9. BELOW GRADE CONDUIT SHALL BE SCHEDULE 80 PVC. ABOVE GRADE CONDUIT SHALL BE GALVANIZED RIGID CONDUIT. BELOW GRADE PVC CONDUIT SHALL TRANSITION TO GRC PRIOR TO RISING ABOVE GRADE, ALL BENDS SHALL HAVE A MINIMUM 24" RADIUS, ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. VERIFY CONDUIT TYPE WITH LOCAL CONSTRUCTION MANAGER AND ADJUST IF NECESSARY. ALL CONDUIT SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS AS

LOAD CALCULAT	TION				
LOAD	AMPS				
PROPOSED LOAD:	123.0				
TOTAL DEMAND:	129.0				
VOLTAGE: 120/240V SINGLE PHASE 3W 200A					

PANE		VZW II	LC		MODEL NUMBER		INT	ERSE	CT AA30	10G-1PH	-3R				
RATE()	240	120	VOLTS	PHASE/\	VIRE:	1	3							
MAIN BREA		200	AMPS		BUS RAT	TING:	20	00			KEY DOOR LATCH:	YES			
MOUN	fT:	SURFA	CE		NEUTRAL	UTRAL BAR: YES I		HENGED DOOR:	YES						
ENCL:	OSURE	NEMA	3R		AIC:		6	5K							
000	USAGE	BUS	AMPS	LOAD	POLES	AMPS	L1	L2	AMPS	POLES	LOAD	BUS /	AMPS	USAGE	PO
POS	FACTOR	L1	L2	LUAU	POLES	AWPS	LI	LZ	AMPS	FULES	LOAU	L1	L2 FACTOR		
1	1	18		DECTIFIED		704			30A	2	FUTURE	18		1	
3	1		18	RECTIFIER	2	30A			JUA		RECTIFIER		18	1	
5	1	18		RECTIFIER		704	/		30A		FUTURE	18		1	
7	1		18		2	30A			JUA	2	RECTIFIER		18	1	
9	1	18		5507555		701								1	
11	1		18	RECTIFIER	2	30A								1	
13	1	18		0.507/5/50											1
15	1		18	RECTIFIER	2	30A									1
17	1.25	12		GFI RECEPT	1	20A									1
19	1.25		12	. BLOCK HEATER	1	20A									_ 2
21	1.25	5		BATT, CHARGER	1	20A									2
23															2
25															1
27															:
29]
		93.25	87	:SUB TOTAL AMPS							SUB TOTAL AMPS:	36	36		
											FACTORED TOTAL AMPS:	129.25	123		

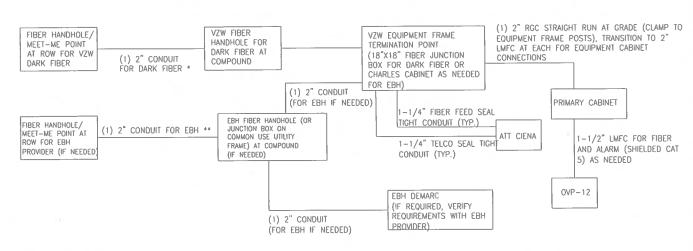
ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER.
MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50FT.

INTERSECT/ GENERAC INTEGRATED LOAD CENTER INCLUDES 200 AMP MAIN DISCONNECT AND TRANSFER SWITCH FOR PORTABLE OR PERMANENT

RECTIFIER LOADS ARE CONSIDERED TO BE NON-CONTINUOUS.

IF ADDITIONAL FUTURE LOADS ARE ADDED WHICH CAUSE TOTAL DEMAND TO EXCEED GENERATOR BREAKER SIZE, BACKUP POWER SYSTEM SHALL BE EVALUATED AND UPGRADED AS NECESSARY.

PANEL SCHEDULE



FIBER SINGLE LINE DIAGRAM

- * ADD (1) ADDITIONAL 2" CONDUIT FOR DARK FIBER (2 TOTAL) IF REQUIRED BY LOCAL MARKET FACILITIES, VERIFY PRIOR TO CONSTRUCTION. (ADD 2 PULL STRINGS TO EACH CONDUIT)
- ** VERIFY EBH REQUIREMENTS WITH TELCO PROVIDER PRIOR TO CONSTRUCTION. (ADD 2 PULL STRINGS TO EACH CONDUIT)



CROWN CASTLE 4511 N HIMES AVE, SUFFE 210



TAMPA, FL 33614

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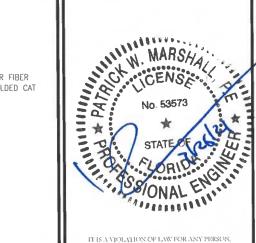
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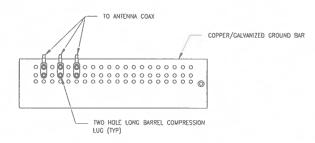
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ISSUED FOR:								
REV	DATE	DRWN	DESCRIPTION	DES/Q				
A	5/27/2021	CM.	LEASE EXHIBIT ISSUE	CW.				
0	6/10/2021	CW	ISSUED FOR PRELIMS	CIL.				
	7/23/2021	CW.	ISSUED FOR FINALS	C/L,				

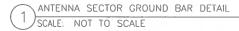


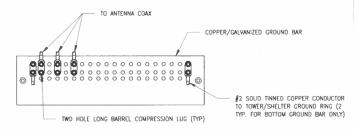
UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFISSIONAL ENGINEER TO ALTER THIS DOCUMENT

SHEET NUMBER:



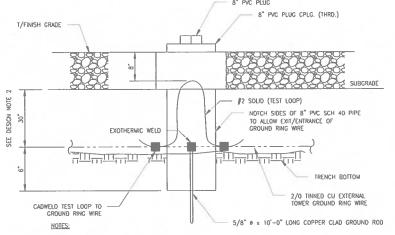
- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS
- GROUND BAR SHALL NOT BE ISOLATED FROM TOWER MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.





- 1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- 2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
- 3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

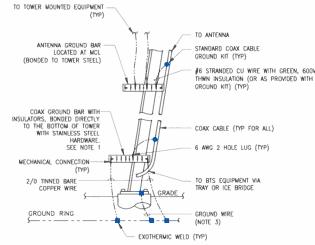
TOWER/SHELTER GROUND BAR DETAIL



1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(0)

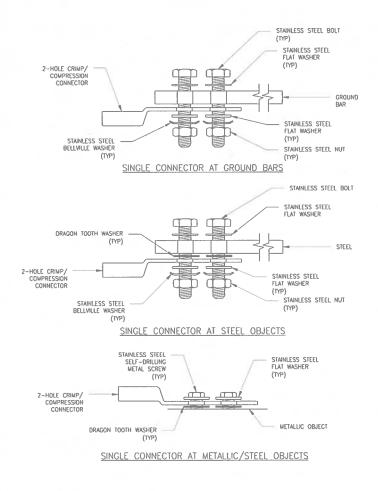
INSPECTION WELL DETAIL SCALE: NOT TO SCALE

(2) SCALE: NOT TO SCALE

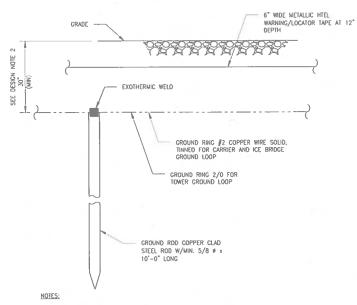


- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COMMAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
- ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
- ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

TYPICAL ANTENNA CABLE GROUNDING (4) SCALE: NOT TO SCALE



HARDWARE DETAIL FOR EXTERIOR CONNECTIONS SCALE: NOT TO SCALE



GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL

GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(0)

GROUND ROD DETAIL SCALE: NOT TO SCALE







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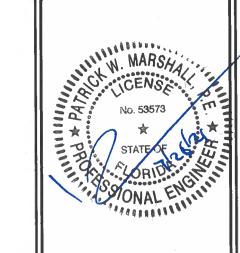
VERIZON SITE NUMBER: 585456

BU #: 809328 LAKE CITY W J-FL-012-058

555 HACKNEY LANE LAKE CITY, FL 32055

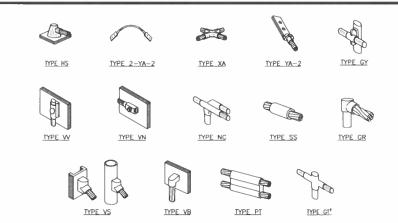
EXISTING 254'-0" SELF-SUPPORT TOWER

REV	DATE	DRWN	DESCRIPTION	DES /Q
A	5/27/2021	CW.	LEASE EXHIBIT ISSUE	CW.
0	6/10/2021	CM.	ISSUED FOR PRELIMS	C/L
1	7/23/2021	CM.	ISSUED FOR FINALS	C/L



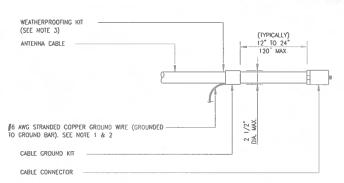
IT IS A VIOLATION OF LAW FOR ANY PERSON LESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: (J-.)



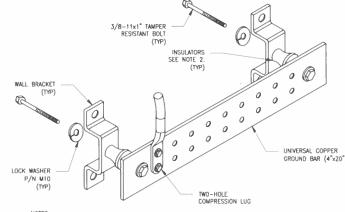
- ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
 MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

CADWELD GROUNDING CONNECTIONS 1) SCALE: NOT TO SCALE



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



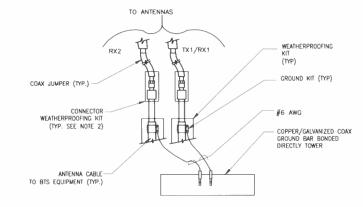


NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE <u>NOT</u> TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY DAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE ARR ARE NOT PERMITTED.

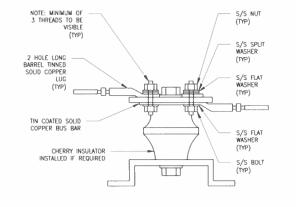
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

GROUND BAR DETAIL (6) SCALE: NOT TO SCALE



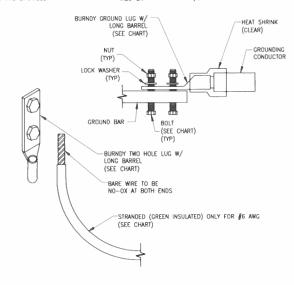
- 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO
- 2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

GROUND CABLE CONNECTION (4) SCALE: NOT TO SCALE



LUG DETAIL SCALE: NOT TO SCALE

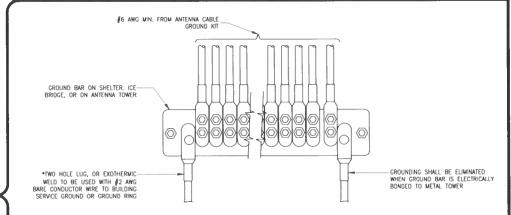
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8° - 16 NC S 2 BOLT
#2 AWG STRANDED	YAZC-ZTC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



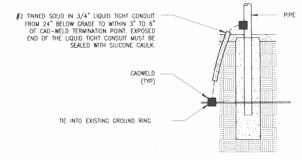
NOTES:

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 SCALE: NOT TO SCALE



GROUNDWIRE INSTALLATION (5) SCALE: NOT TO SCALE



TRANSITIONING GROUND DETAIL (8) SCALE: NOT TO SCALE







4000 HOLCOMB WOODS PKWY, STE 210, ROSWELL, GA 30076 OFFICE 678-230-2325

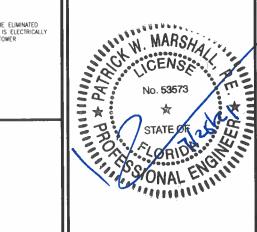
VERIZON SITE NUMBER: 585456

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EXISTING 254'-0" SELF-SUPPORT TOWER

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REV	DATE	DRWN	DESCRIPTION	DES /Q3			
Α	5/27/2021	CW	LEASE EXHIBIT ISSUE	C/Z,			
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. 1	7/23/2021	C/L.	ISSUED FOR FINALS	C/Z.			
	17 207 21721						



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