

S:\PROJECTS\LIN DAS, LLC\165625_LAKE NONA POTRAS - TOWER 5\CAD\DWG\TOWER 5_ZDYS (0).DWG - 2023-07-19 - mspeedie

GENERAL NOTES:

1. FOR THE PURPOSE OF THE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – VERIZON WIRELESS
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER’S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER.
8. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, FIBER, T1 CABLES, AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING.
9. 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.
10. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER’S DESIGNATED LOCATION.
11. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
12. CONTRACTOR SHALL HAVE A PRECONSTRUCTION MEETING WITH OWNER TO DISCUSS ALL ASPECTS OF THE CONSTRUCTION SCOPE OF THIS DRAWING TO ENSURE HE IS FAMILIAR AND UNDERSTANDS ALL REQUIREMENTS AND INTENT OF EACH ACTIVITY.
13. THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
14. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORMWORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
15. THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
16. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.

CONCRETE NOTES:

1. SUBGRADE SHALL BE COMPACTED TO UNDER FOUNDATIONS TO 95% MAXIMUM DRY DENSITY PER ASTM D–1557 A MINIMUM OF 2 FEET BELOW BOTTOM OF CONCRETE.
2. BACKFILL MATERIAL SHALL CONSIST OF CLEAN SAND FREE OF ALL ROOTS, LARGE ROCKS OR OTHER DELETERIOUS MATERIAL.
3. CONDUIT, EMBEDDED ITEMS AND PENETRATIONS SHALL BE PROPERLY LOCATED AND COORDINATED PRIOR TO CONCRETE PLACEMENT. CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS.
4. CONCRETE SHALL BE MINIMUM 4,000 PSI (AFTER 28 DAYS) NORMAL WEIGHT FIBERMESH CONCRETE.
5. CONTRACTOR SHALL PERFORM CYLINDER TESTS FOR CONCRETE COMPRESSIVE STRENGTH TESTING (MINIMUM OF 4 CYLINDERS).
6. ALL PERMITS, LICENSES, INSPECTIONS AND ASSOCIATED FEES SHALL BE CONTRACTOR’S RESPONSIBILITY.

SITE WORK NOTES:

1. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. 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 ENGINEER. 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 & EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. 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 OWNER AND/OR LOCAL UTILITIES.
6. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
7. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
8. 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.
9. THE SUB GRADE SHALL BE COMPACTED TO 95% PROCTOR AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
10. 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 IN THE PROJECT SPECIFICATIONS.
11. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
12. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONSTRUCTABILITY ISSUES IN THE PLANS.

STRUCTURAL NOTES:

1. DESIGN: FLORIDA BUILDING CODE 2014, 5TH EDITION. AISC STEEL CONSTRUCTION MANUAL, LOAD AND RESISTANCE FACTOR DESIGN.
2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO ORDERING OR FABRICATING STEEL FRAME, ANCHOR BOLTS, OR ANY REQUIRED HARDWARE.
3. STRUCTURAL STEEL:
MATERIALS: STRUCTURAL WIDE FLANGES SHALL CONFORM TO ASTM A992 GRADE 50. CHANNELS, ANGLES AND PLATES SHALL CONFORM TO ASTM A36 GRADE.
4. CONNECTIONS: DESIGN, FABRICATION AND CONSTRUCTION SHALL CONFORM TO AISC MANUAL OF STEEL CONSTRUCTION.
5. ENGINEER SHALL APPROVE SHOP DRAWINGS PRIOR TO FABRICATION.
6. WELDING: SHALL BE DONE BY AN AWS CERTIFIED WELDER AND IN COMPLIANCE WITH AWS D1.1. ALL WELD SIZES SHALL BE THE MAXIMUM ALLOWED BY THE MATERIAL BEING WELDED WITH E70XX ELECTRODES.
7. BOLTS: SHALL CONFORM TO ASTM A325–X WITH WASHER SIZE AS SHOWN ON PLANS AND BE HOT DIPPED GALVANIZED.
8. HOT DIP GALVANIZE ALL STRUCTURAL STEEL IN ACCORDANCE WITH ASTM A123. HOT DIP GALVANIZE HARDWARE PER ASTM A153. TOUCH UP ALL FIELD WELDS AND ABRADED AREAS WITH TWO COATS OF GALVANIZED PAINT. REPAIR OF ABRADED OR UNCOATED AREAS SHALL CONFORM TO ASTM A780–93A.
9. DESIGN CRITERIA:

• DESIGN CODE: FLORIDA BUILDING CODE, 2017, 6TH EDITION

• ULTIMATE DESIGN WIND SPEED, Vult: 180 mph

• NOMINAL DESIGN WIND SPEED, Vnom: 139 mph

• RISK CATEGORY: II

• EXPOSURE CATEGORY: C

• INTERNAL PRESSURE COEFFICIENT: 0.00

• COMPONENTS & CLADDING WIND PRESSURES:

ZONE 1 = +76.4 PSF

–66.2 PSF

ZONE 2 = +76.4 PSF

–66.2 PSF

ZONE 3 = +76.4 PSF

–66.2 PSF

NOTES:

- ILLUMINATION. COMMUNICATION TOWERS SHALL NOT BE ARTIFICIALLY LIGHTED EXCEPT AS REQUIRED FOR PUBLIC SAFETY PURPOSES, OR BY THE FEDERAL AVIATION ADMINISTRATION (FAA).
- SIGNAGE. NO SIGNAGE SHALL BE ALLOWED ON ANY COMMUNICATION TOWER, EXCEPT AS REQUIRED FOR PUBLIC SAFETY PURPOSES, OR BY THE FEDERAL COMMUNICATIONS COMMISSION (FCC).
- ABANDONMENT. IN THE EVENT THAT THE USE OF ANY COMMUNICATION TOWER HAS BEEN DISCONTINUED FOR A PERIOD OF ONE HUNDRED EIGHTY (180) CONSECUTIVE DAYS, THE TOWER SHALL BE DEEMED TO BE ABANDONED. DETERMINATION OF THE DATE OF ABANDONMENT SHALL BE MADE BY THE ZONING OFFICIAL WHO SHALL HAVE THE RIGHT TO REQUEST DOCUMENTATION AND/OR AFFIDAVITS FROM THE COMMUNICATION TOWER OWNER/OPERATOR REGARDING THE ACTIVE USE OF THE TOWER. THE OWNER/OPERATOR OF THE TOWER SHALL HAVE ONE–HUNDRED EIGHTY (180) DAYS FROM THE DATE OF THE NOTICE OF THE ZONING OFFICIAL’S DETERMINATION OF ABANDONMENT TO EITHER, (1) REACTIVATE THE USE OF THE TOWER OR TRANSFER THE TOWER TO ANOTHER OWNER/OPERATOR WHO MAKES ACTUAL USE OF THE TOWER, OR (2) DISMANTLE AND REMOVE THE TOWER. AT THE EARLIER OF ONE HUNDRED EIGHTY–ONE (181) DAYS FROM THE DATE OF THE NOTICE OF THE ZONING OFFICIAL’S DETERMINATION OF ABANDONMENT WITHOUT REACTIVATION, OR UPON COMPLETION OF DISMANTLING AND REMOVAL, ANY CONDITIONAL USE AND/OR VARIANCE APPROVAL FOR THE TOWER SHALL AUTOMATICALLY EXPIRE.



DAIS TOWER

TOWER 5

LAKE NONA

POTRAS

BOGGY CREEK ROAD

ORLANDO, FL 32827

ORANGE COUNTY

TAX PARCEL 31-24-31-7793-15-001

PROPOSED 147' MONOPINE

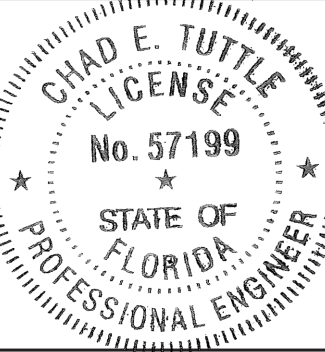
PROJECT NO: G165625.001.01

CHECKED BY: DLS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
B	4/28/23	BCT	PRELIMINARY DRAWINGS
C	4/28/23	MAS	PRELIMINARY DRAWINGS
O	4/28/23	MAS	SUBMITTAL

B&T ENGINEERING, INC.



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.

GENERAL NOTES

SHEET NUMBER:

T-2