

City of Red Bank

BOARD OF COMMISSIONERS WORK SESSION

Work Session Agenda

September 19, 2023

5:00 PM

The purpose(s) of the meeting shall be for the Commission to receive, consider, discuss, deliberate, and debate the matters listed herein below and such other public business as may lawfully be undertaken provided that no formal votes are to occur and no matters or issues will be formally decided upon at this meeting.

- I. **Employee Introduction - James "JB" Allen, Solid Waste Supervisor - PW**
- II. **Award the TDEC non-competitive water infrastructure grant program for professional engineering services to Barge Design Solutions in the amount of \$1,190,000.00 Res No. 23-1615(DPWD Johnson)**
- III. **Present revised Employee Handbook for consideration - provided separately (CR Perry)**
- IV. **Next Commissioner Retreat - February 27 (CM GRanum)**
- V. **Rezone 103 Orlando Drive from R-1 Residential to R-2 Residential ORD No. 23-1246 (CP Pham)**
*****PUBLIC HEARING*****
- VI. **Rezone 119 & 121 West Ridgewood Drive from R-1 Residential to C-1 Commercial ORD No. 23-1247 (CP Pham)**
*****PUBLIC HEARING*****
- VII. **Amending Red Bank Zoning Ordinance and Public Hearing Procedures ORD No. 23-1248 (CP Pham)**
*****PUBLIC HEARING*****
- VIII. **Cell Tower Lease Agreement Res No. 23-1616 (CM Granum)**
- IX. **National HR Day Res No. 23-1617 (CM Granum)**
- X. **Hamilton County School Facilities Recommendations Res No. 23-1618 (CM Granum)**
- XI. **Citizen comments on items on this Work Session Agenda (CM Granum)**
- XII. **Any other business to discuss**

ORDINANCE NO. 23-1245

AN ORDINANCE OF THE CITY OF RED BANK, TENNESSEE AMENDING TITLE 4, CHAPTER 2, SECTIONS 4-201, ET SEQ., OF THE RED BANK CITY CODE TO REVISE AND UPDATE THE CITY'S OCCUPATIONAL SAFETY AND HEALTH PROGRAM PLAN, DEVISE RULES AND REGULATIONS, AND TO PROVIDE FOR A SAFETY DIRECTOR AND THE IMPLEMENTATION OF SUCH PROGRAM PLAN

WHEREAS, in compliance with Public Chapter 561 of the General Assembly of the State of Tennessee for the year 1972, the City of Red Bank, Tennessee hereby updates the Occupational Safety and Health Program Plan for our employees; and

WHEREAS, due to various changes in subsequent years, it has become necessary to amend the program plan to comply with more recent state requirements.

NOW, THEREFORE, BE IT ORDAINED BY THE COMMISSION OF THE CITY OF RED BANK, TENNESSEE, that Red Bank City Code Section 4-201, et seq., i.e., Ordinance 16-1060 are hereby amended as follows:

SECTION 1. Delete Sections 4-201 through 4-208 in its/their entirety and substitute the following:

Section 4-201. TITLE:

This section shall be known as "The Occupational Safety and Health Program Plan" for the employees of the City of Red Bank.

Section 4-202. PURPOSE:

The City of Red Bank will continue to maintain an effective and comprehensive Occupational Safety and Health Program Plan for its employees and shall:

- 1) Provide a safe and healthful place and condition of employment that includes:
 - a) Top Management Commitment and Employee Involvement;
 - b) Continually analyze the worksite to identify all hazards and potential hazards;
 - c) Develop and maintain methods for preventing or controlling the existing or potential hazards;
and
 - d) Train managers, supervisors, and employees to understand and deal with worksite hazards.
- 2) Acquire, maintain, and require the use of safety equipment, personal protective equipment, and devices reasonably necessary to protect employees.
- 3) Record, keep, preserve, and make available to the Commissioner of Labor and Workforce Development, or persons within the Department of Labor and Workforce Development to whom such responsibilities have been delegated, adequate records of all occupational accidents and illnesses and personal injuries for proper evaluation and necessary corrective action as required.
- 4) Consult with the Commissioner of Labor and Workforce Development with regard to the adequacy of the form and content of records.
- 5) Consult with the Commissioner of Labor and Workforce Development, as appropriate, regarding

safety and health problems which are considered to be unusual or peculiar and are such that they cannot be achieved under a standard promulgated by the State.

- 6) Provide reasonable opportunity for the participation of employees in the effectuation of the objectives of this Program Plan, including the opportunity to make anonymous complaints concerning conditions or practices injurious to employee safety and health.
- 7) Provide for education and training of personnel for the fair and efficient administration of occupational safety and health standards, and provide for education and notification of all employees of the existence of this Program Plan.

Section 4-203. COVERAGE:

The provisions of the Occupational Safety and Health Program Plan for the employees of the City of Red Bank shall apply to all employees of each administrative department, commission, board, division, or other agency whether part-time or full-time, seasonal or permanent.

Section 4-204. STANDARDS AUTHORIZED:

The Occupational Safety and Health standards adopted by the City of Red Bank are the same as, but not limited to, the State of Tennessee Occupational Safety and Health Standards promulgated, or which may be promulgated, in accordance with Section 6 of the Tennessee Occupational Safety and Health Act of 1972 (T.C.A. Title 50, Chapter 3).

Section 4-205. VARIANCES FROM STANDARDS AUTHORIZED:

Upon written application to the Commissioner of Labor and Workforce Development of the State of Tennessee, we may request an order granting a temporary variance from any approved standards. Applications for variances shall be in accordance with Rules of Tennessee Department of Labor and Workforce Development Occupational Safety and Health, VARIANCES FROM OCCUPATIONAL SAFETY AND HEALTH STANDARDS, CHAPTER 0800-01-02, as authorized by T.C.A., Title 50. Prior to requesting such temporary variance, we will notify or serve notice to our employees, their designated representatives, or interested parties and present them with an opportunity for a hearing. The posting of notice on the main bulletin board shall be deemed sufficient notice to employees.

Section 4-206. ADMINISTRATION:

For the purposes of this ordinance, the Deputy Fire Chief is designated as the Safety Director of Occupational Safety and Health to perform duties and to exercise powers assigned to plan, develop, and administer this Program Plan. The Safety Director shall develop a plan of operation for the Program Plan in accordance with the Rules of the Tennessee Department of Labor and Workforce Development Occupational Safety and Health, SAFETY AND HEALTH PROVISIONS FOR THE PUBLIC SECTOR, CHAPTER 0800-01-05, as authorized by T.C.A., Title 50.

Section 4-207. FUNDING THE PROGRAM PLAN:

Sufficient funds for administering and staffing the Program Plan pursuant to this ordinance shall be made available as authorized by the City of Red Bank.

Section 4-208. PLAN ADOPTED:

The City hereby adopts the Plan of Operation for the Occupational Safety and Health Program Plan

for the Employees of the City of Red Bank, attached hereto as Exhibit A, the official copy of which, for codification purposes, is of record in the office of the City Recorder, as the Occupational Safety and Health Standards Plan for the Employees of the City of Red Bank.

SEVERABILITY:

SECTION 2. **BE IT FURTHER ORDAINED** that if any section, sub-section, sentence, clause, phrase, or portion of this ordinance is for any reason held invalid or unconstitutional by any court of competent jurisdiction, such portion shall be deemed separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions hereof.

AMENDMENTS, ETC:

SECTION 3. **BE IT FURTHER ORDAINED** that this ordinance shall take effect from and after the date it shall have been passed, properly signed, certified, and has met all other legal requirements, and as otherwise provided by law, the general welfare of the City of Red Bank, Tennessee requiring it.

Mayor Hollie Berry (date)

City Recorder Tracey Perry (date)

September 5, 2023
Approved on First Reading

Approved on Second and Final Reading

APPROVED AS TO FORM:

City Attorney Arnold Stulce, Jr.

PLAN OF OPERATION FOR THE OCCUPATIONAL SAFETY AND HEALTH
PROGRAM PLAN FOR THE EMPLOYEES OF THE CITY OF RED BANK, TENNESSEE

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I. PURPOSE AND COVERAGE

The purpose of this plan is to provide guidelines and procedures for implementing the Occupational Safety and Health

Program Plan for the employees of the City of Red Bank.

This plan is applicable to all employees, part-time or full-time, seasonal or permanent.

The City of Red Bank in electing to update and maintain an effective Occupational Safety and Health Program Plan for its employees,

- a. Provide a safe and healthful place and condition of employment.
- b. Require the use of safety equipment, personal protective equipment, and other devices where reasonably necessary to protect employees.
- c. Make, keep, preserve, and make available to the Commissioner of Labor and Workforce Development, his designated representatives, or persons within the Department of Labor and Workforce Development to whom such responsibilities have been delegated, including the Safety Director of the Division of Occupational Safety and Health, adequate records of all occupational accidents and illnesses and personal injuries for proper evaluation and necessary corrective action as required.
- d. Consult with the Commissioner of Labor and Workforce Development or his designated representative with regard to the adequacy of the form and content of such records.
- e. Consult with the Commissioner of Labor and Workforce Development regarding safety and health problems which are considered to be unusual or peculiar and are such that they cannot be resolved under an occupational safety and health standard promulgated by the State.
- f. Assist the Commissioner of Labor and Workforce Development or his monitoring activities to determine Program Plan effectiveness and compliance with the occupational safety and health standards.
- g. Make a report to the Commissioner of Labor and Workforce Development annually, or as may otherwise be required, including information on occupational accidents, injuries, and illnesses and accomplishments and progress made toward achieving the goals of the Occupational Safety and Health Program Plan.
- h. Provide reasonable opportunity for and encourage the participation of employees in the effectuation of the objectives of this Program Plan, including the opportunity to make anonymous complaints concerning conditions or practices which may be injurious to employees' safety and health.

II. DEFINITIONS

For the purposes of this Program Plan, the following definitions apply:

- a. COMMISSIONER OF LABOR and Workforce Development means the chief executive officer of the Tennessee Department of Labor and Workforce Development. This includes any person appointed, designated, or deputized to perform the duties or to exercise the powers assigned to the Commissioner of Labor and Workforce Development.
- b. EMPLOYER means the City of Red Bank and includes each administrative department, board, commission, division, or other agency of the City of Red Bank.
- c. SAFETY DIRECTOR OF OCCUPATIONAL SAFETY AND HEALTH or SAFETY DIRECTOR means the person designated by the establishing ordinance, or executive order to perform duties or to exercise powers assigned so as to plan, develop, and administer the Occupational Safety and Health Program Plan for the employees of the City of Red Bank.
- d. INSPECTOR(S) means the individual(s) appointed or designated by the Safety Director of Occupational Safety and Health to conduct inspections provided for herein. If no such compliance inspector(s) is appointed, inspections shall be conducted by the Safety Director of Occupational Safety and Health.
- e. APPOINTING AUTHORITY means any official or group of officials of the employer having legally designated powers of appointment, employment, or removal there from for a specific department, board, commission, division, or other agency of this employer.
- f. EMPLOYEE means any person performing services for this employer and listed on the payroll of this employer, either as part-time, full-time, seasonal, or permanent. It also includes any persons normally classified as "volunteers" provided such persons received remuneration of any kind for their services. This definition shall not include independent contractors, their agents, servants, and employees.
- g. PERSON means one or more individuals, partnerships, associations, corporations, business trusts, or legal representatives of any organized group of persons.
- h. STANDARD means an occupational safety and health standard promulgated by the Commissioner of Labor and Workforce Development in accordance with Section VI (6) of the Tennessee Occupational Safety and Health Act of 1972 which requires conditions or the adoption or the use of one or more practices, means,

methods, operations, or processes or the use of equipment or personal protective equipment necessary or appropriate to provide safe and healthful conditions and places of employment.

- i. IMMINENT DANGER means any conditions or practices in any place of employment which are such that a hazard exists which could reasonably be expected to cause death or serious physical harm immediately or before the imminence of such hazard can be eliminated through normal compliance enforcement procedures.
- j. ESTABLISHMENT or WORKSITE means a single physical location under the control of this employer where business is conducted, services are rendered, or industrial type operations are performed.
- k. SERIOUS INJURY or HARM means that type of harm that would cause permanent or prolonged impairment of the body in that:
 - 1. A part of the body would be permanently removed (e.g., amputation of an arm, leg, finger(s); loss of an eye) or rendered functionally useless or substantially reduced in efficiency on or off the job (e.g., leg shattered so severely that mobility would be permanently reduced), or
 - 2. A part of an internal body system would be inhibited in its normal performance or function to such a degree as to shorten life or cause reduction in physical or mental efficiency (e.g., lung impairment causing shortness of breath).

On the other hand, simple fractures, cuts, bruises, concussions, or similar injuries would not fit either of these categories and would not constitute serious physical harm.

- l. ACT or TOSH Act shall mean the Tennessee Occupational Safety and Health Act of 1972.
- m. GOVERNING BODY means the County Quarterly Court, Board of Aldermen, Board of Commissioners, City or Town Council, Board of Governors, etc., whichever may be applicable to the local government, government agency, or utility to which this plan applies.
- n. CHIEF EXECUTIVE OFFICER means the chief administrative official, County Judge, County Chairman, County Mayor, Mayor, City Manager, General Manager, etc., as may be applicable.

III. EMPLOYER'S RIGHTS AND DUTIES

Rights and duties of the employer shall include, but are not limited to, the following provisions:

- a. Employer shall furnish to each employee conditions of employment and a place of employment free from recognized hazards that are causing or are likely to cause death or serious injury or harm to employees.
- b. Employer shall comply with occupational safety and health standards and regulations promulgated pursuant to Section VI (6) of the Tennessee Occupational Safety and Health Act of 1972.
- c. Employer shall refrain from an unreasonable restraint on the right of the Commissioner of Labor and Workforce Development to inspect the employer's place(s) of business. Employer shall assist the Commissioner of Labor and Workforce Development in the performance of their monitoring duties by supplying or by making available information, personnel, or aids reasonably necessary to the effective conduct of the monitoring activity.
- d. Employer is entitled to participate in the development of standards by submission of comments on proposed standards, participation in hearing on proposed standards, or by requesting the development of standards on a given issue under Section 6 of the Tennessee Occupational Safety and Health Act of 1972.
- e. Employer is entitled to request an order granting a variance from an occupational safety and health standard.
- f. Employer is entitled to protection of its legally privileged communication.
- g. Employer shall inspect all worksites to ensure the provisions of this Program Plan are complied with and carried out.
- h. Employer shall notify and inform any employee who has been or is being exposed in a biologically significant manner to harmful agents or material in excess of the applicable standard and of corrective action being taken.
- i. Employer shall notify all employees of their rights and duties under this Program Plan.

IV. EMPLOYEE'S RIGHTS AND DUTIES

Rights and duties of employees shall include, but are not limited to, the following provisions:

- a. Each employee shall comply with occupational safety and health act standards and all rules, regulations, and orders issued pursuant to this Program Plan and the Tennessee Occupational Safety and Health Act of 1972 which are applicable to his or her own actions and conduct.
- b. Each employee shall be notified by the placing of a notice upon bulletin boards, or other places of common passage, of any application for a permanent or temporary order granting the employer a variance from any provision of the TOSH Act or any standard or regulation promulgated under the Act.
- c. Each employee shall be given the opportunity to participate in any hearing which concerns an application by the employer for a variance from a standard or regulation promulgated under the Act.
- d. Any employee who may be adversely affected by a standard or variance issued pursuant to the Act or this Program Plan may file a petition with the Commissioner of Labor and Workforce Development or whoever is responsible for the promulgation of the standard or the granting of the variance.
- e. Any employee who has been exposed or is being exposed to toxic materials or harmful physical agents in concentrations or at levels in excess of that provided for by any applicable standard shall be provided by the employer with information on any significant hazards to which they are or have been exposed, relevant symptoms, and proper conditions for safe use or exposure. Employees shall also be informed of corrective action being taken.
- f. Subject to regulations issued pursuant to this Program Plan, any employee or authorized representative of employees shall be given the right to request an inspection and to consult with the Safety Director or Inspector at the time of the physical inspection of the worksite.
- g. Any employee may bring to the attention of the Safety Director any violation or suspected violations of the standards or any other health or safety hazards.
- h. No employee shall be discharged or discriminated against because such employee has filed any complaint or instituted or caused to be instituted any proceeding or inspection under or relating to this Program Plan.
- i. Any employee who believes that he or she has been discriminated against or discharged in violation of subsection (h) of this section may file a complaint alleging such discrimination with the Safety Director. Such employee may also, within thirty (30) days after such violation occurs, file a complaint with the Commissioner of Labor and Workforce Development alleging such discrimination.
- j. Nothing in this or any other provisions of this Program Plan shall be deemed to authorize or require any employee to undergo medical examination, immunization, or treatment for those who object thereto on religious grounds, except where such is necessary for the protection of the health or safety of others or when a medical examination may be reasonably required for performance of a specific job.
- k. Employees shall report any accident, injury, or illness resulting from their job, however minor it may seem to be, to their supervisor or the Safety Director within twenty-four (24) hours after the occurrence.

V. ADMINISTRATION

- a. The Safety Director of Occupational Safety and Health is designated to perform duties or to exercise powers assigned so as to administer this Occupational Safety and Health Program Plan.
 - 1. The Safety Director may designate person or persons as he deems necessary to carry out his powers, duties, and responsibilities under this Program Plan.
 - 2. The Safety Director may delegate the power to make inspections, provided procedures employed are as effective as those employed by the Safety Director.
 - 3. The Safety Director shall employ measures to coordinate, to the extent possible, activities of all departments to promote efficiency and to minimize any inconveniences under this Program Plan.
 - 4. The Safety Director may request qualified technical personnel from any department or section of government to assist him in making compliance inspections, accident investigations, or as he may otherwise deem necessary and appropriate in order to carry out his duties under this Program Plan.
 - 5. The Safety Director shall prepare the report to the Commissioner of Labor and Workforce Development required by subsection (g) of Section 1 of this plan.
 - 6. The Safety Director shall make or cause to be made periodic and follow-up inspections of all facilities and worksites where employees of this employer are employed. He shall make recommendations to correct any hazards or exposures observed. He shall make or cause to be made any inspections required by complaints submitted by employees or inspections requested by employees.
 - 7. The Safety Director shall assist any officials of the employer in the investigation of occupational accidents or illnesses.

8. The Safety Director shall maintain or cause to be maintained records required under Section VIII of this plan.
 9. **The Safety Director shall, in the eventuality that there is a fatality, ensure that the Commissioner of Labor and Workforce Development receives notification of the occurrence within eight (8) hours. All work-related inpatient hospitalizations, amputations, and loss of an eye must be reported to TOSHA within 24 hours.**
- b. The administrative or operational head of each department, division, board, or other agency of this employer shall be responsible for the implementation of this Occupational Safety and Health Program Plan within their respective areas.
1. The administrative or operational head shall follow the directions of the Safety Director on all issues involving occupational safety and health of employees as set forth in this plan.
 2. The administrative or operational head shall comply with all abatement orders issued in accordance with the provisions of this plan or request a review of the order with the Safety Director within the abatement period.
 3. The administrative or operational head should make periodic safety surveys of the establishment under his jurisdiction to become aware of hazards or standards violations that may exist and make an attempt to immediately correct such hazards or violations.
 4. The administrative or operational head shall investigate all occupational accidents, injuries, or illnesses reported to him. He shall report such accidents, injuries, or illnesses to the Safety Director along with his findings and/or recommendations in accordance with APPENDIX IV of this plan.

VI. STANDARDS AUTHORIZED

The standards adopted under this Program Plan are the applicable standards developed and promulgated under Section VI (6) of the Tennessee Occupational Safety and Health Act of 1972. Additional standards may be promulgated by the governing body of this employer as that body may deem necessary for the safety and health of employees. Note: 29 CFR 1910 General Industry Regulations; 29 CFR 1926 Construction Industry Regulations; and the Rules of Tennessee Department of Labor and Workforce Development Occupational Safety and Health, CHAPTER 0800-01-1 through CHAPTER 0800-01-11 are the standards and rules invoked.

VII. VARIANCE PROCEDURE

The Safety Director may apply for a variance as a result of a complaint from an employee or of his knowledge of certain hazards or exposures. The Safety Director should definitely believe that a variance is needed before the application for a variance is submitted to the Commissioner of Labor and Workforce Development.

The procedure for applying for a variance to the adopted safety and health standards is as follows:

- a. The application for a variance shall be prepared in writing and shall contain:
 1. A specification of the standard or portion thereof from which the variance is sought.
 2. A detailed statement of the reason(s) why the employer is unable to comply with the standard supported by representations by qualified personnel having first-hand knowledge of the facts represented.
 3. A statement of the steps employer has taken and will take (with specific date) to protect employees against the hazard covered by the standard.
 4. A statement of when the employer expects to comply and what steps have or will be taken (with dates specified) to come into compliance with the standard.
 5. A certification that the employer has informed employees, their authorized representative(s), and/or interested parties by giving them a copy of the request, posting a statement summarizing the application (to include the location of a copy available for examination) at the places where employee notices are normally posted and by other appropriate means. The certification shall contain a description of the means actually used to inform employees and that employees have been informed of their right to petition the Commissioner of Labor and Workforce Development for a hearing.

- b. The application for a variance should be sent to the Commissioner of Labor and Workforce Development by registered or certified mail.
- c. The Commissioner of Labor and Workforce Development will review the application for a variance and may deny the request or issue an order granting the variance. An order granting a variance shall be issued only if it has been established that:
 - 1. The employer:
 - i. Is unable to comply with the standard by the effective date because of unavailability of professional or technical personnel or materials and equipment required or necessary construction or alteration of facilities or technology.
 - ii. Has taken all available steps to safeguard employees against the hazard(s) covered by the standard.
 - iii. Has as effective Program Plan for coming into compliance with the standard as quickly as possible.
 - 2. The employee is engaged in an experimental Program Plan as described in subsection (b), section 13 of the Act.
- d. A variance may be granted for a period of no longer than is required to achieve compliance or one (1) year, whichever is shorter.
- e. Upon receipt of an application for an order granting a variance, the Commissioner to whom such application is addressed may issue an interim order granting such a variance for the purpose of permitting time for an orderly consideration of such application. No such interim order may be effective for longer than one hundred eighty (180) days.
- f. The order or interim order granting a variance shall be posted at the worksite and employees notified of such order by the same means used to inform them of the application for said variance (see subsection (a)(5) of this section).

VIII. RECORDKEEPING AND REPORTING

Recording and reporting of all occupational accident, injuries, and illnesses shall be in accordance with instructions and on forms prescribed in the booklet. You can get a copy of the Forms for Recordkeeping from the internet. Go to www.osha.gov and type Recordkeeping Forms in the search box.

The position responsible for recordkeeping is shown on the SAFETY AND HEALTH ORGANIZATIONAL CHART, Appendix IV to this plan.

Details of how reports of occupational accidents, injuries, and illnesses will reach the recordkeeper are specified by ACCIDENT REPORTING PROCEDURES, Appendix IV to this plan. The Rule of Tennessee Department of Labor and Workforce Development Occupational Safety and Health, OCCUPATIONAL SAFETY AND HEALTH RECORD-KEEPING AND REPORTING, CHAPTER 0800-01-03, as authorized by T.C.A., Title 50.

IX. EMPLOYEE COMPLAINT PROCEDURE

If any employee feels that he is assigned to work in conditions which might affect his health, safety, or general welfare at the present time or at any time in the future, he should report the condition to the Safety Director of Occupational Safety and Health.

- a. The complaint should be in the form of a letter and give details on the condition(s) and how the employee believes it affects or will affect his health, safety, or general welfare. The employee should sign the letter but need not do so if he wishes to remain anonymous (see subsection (h) of Section 1 of this plan).
- b. Upon receipt of the complaint letter, the Safety Director will evaluate the condition(s) and institute any corrective action, if warranted. Within ten (10) working days following the receipt of the complaint, the Safety Director will answer the complaint in writing stating whether or not the complaint is deemed to be valid and if not, why not, what action has been or will be taken to correct or abate the condition(s), and giving a designated time period for correction or abatement. Answers to anonymous complaints will be posted upon

bulletin boards or other places of common passage where the anonymous complaint may be reasonably expected to be seen by the complainant for a period of three (3) working days.

- c. If the complainant finds the reply not satisfactory because it was held to be invalid, the corrective action is felt to be insufficient, or the time period for correction is felt to be too long, he may forward a letter to the Chief Executive Officer or to the governing body explaining the condition(s) cited in his original complaint and why he believes the answer to be inappropriate or insufficient.
- d. The Chief Executive Officer or a representative of the governing body will evaluate the complaint and will begin to take action to correct or abate the condition(s) through arbitration or administrative sanctions or may find the complaint to be invalid. An answer will be sent to the complainant within ten (10) working days following receipt of the complaint or the next regularly scheduled meeting of the governing body following receipt of the complaint explaining decisions made and action taken or to be taken.
- e. After the above steps have been followed and the complainant is still not satisfied with the results, he may then file a complaint with the Commissioner of Labor and Workforce Development. Any complaint filed with the Commissioner of Labor and Workforce Development in such cases shall include copies of all related correspondence with the Safety Director and the Chief Executive Officer or the representative of the governing body.
- f. Copies of all complaint and answers thereto will be filed by the Safety Director who shall make them available to the Commissioner of Labor and Workforce Development or his designated representative upon request.

X. EDUCATION AND TRAINING

a. Safety Director and/or Compliance Inspector(s):

1. Arrangements will be made for the Safety Director and/or Compliance Inspector(s) to attend training seminars, workshops, etc., conducted by the State of Tennessee or other agencies. A list of Seminars can be obtained.
2. Access will be made to reference materials such as 29 CFR 1910 General Industry Regulations; 29 CFR 1926 Construction Industry Regulations; The Rules of Tennessee Department of Labor and Workforce Development Occupational Safety and Health, and other equipment/supplies, deemed necessary for use in conducting compliance inspections, conducting local training, wiring technical reports, and informing officials, supervisors, and employees of the existence of safety and health hazards will be furnished.

b. All Employees (including supervisory personnel):

A suitable safety and health training program for employees will be established. This program will, as a minimum:

1. Instruct each employee in the recognition and avoidance of hazards or unsafe conditions and of standards and regulations applicable to the employee's work environment to control or eliminate any hazards, unsafe conditions, or other exposures to occupational illness or injury.
2. Instruct employees who are required to handle or use poisons, acids, caustics, toxicants, flammable liquids, or gases including explosives, and other harmful substances in the proper handling procedures and use of such items and make them aware of the personal protective measures, person hygiene, etc., which may be required.
3. Instruct employees who may be exposed to environments where harmful plants or animals are present, of the hazards of the environment, how to best avoid injury or exposure, and the first aid procedures to be followed in the event of injury or exposure.
4. Instruct all employees of the common deadly hazards and how to avoid them, such as Falls; Equipment Turnover; Electrocution; Struck by/Caught In; Trench Cave In; Heat Stress and Drowning.
5. Instruct employees on hazards and dangers of confined or enclosed spaces.

- i. Confined or enclosed space means space having a limited means of egress and which is subject to the accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere. Confined or enclosed spaces include, but are not limited to, storage tanks, boilers, ventilation or exhaust ducts, sewers, underground utility accesses, tunnels, pipelines, and open top spaces more than four feet (4) in depth such as pits, tubs, vaults, and vessels.

- ii. Employees will be given general instruction on hazards involved, precautions to be taken, and on use of personal protective and emergency equipment required. They shall also be instructed on all specific standards or regulations that apply to work in dangerous or potentially dangerous areas.
- iii. The immediate supervisor of any employee who must perform work in a confined or enclosed space shall be responsible for instructing employees on danger of hazards which may be present, precautions to be taken, and use of personal protective and emergency equipment, immediately prior to their entry into such an area and shall require use of appropriate personal protective equipment.

XI. GENERAL INSPECTION PROCEDURES

It is the intention of the governing body and responsible officials to have an Occupational Safety and Health Program Plan that will ensure the welfare of employees. In order to be aware of hazards, periodic inspections must be performed. These inspections will enable the finding of hazards or unsafe conditions or operations that will need correction in order to maintain safe and healthful worksites. Inspections made on a pre-designated basis may not yield the desired results. Inspections will be conducted, therefore, on a random basis at intervals not to exceed thirty (30) calendar days.

- a. In order to carry out the purposes of this Ordinance, the Safety Director and/or Compliance Inspector(s), if appointed, is authorized:
 - 1. To enter at any reasonable time, any establishment, facility, or worksite where work is being performed by an employee when such establishment, facility, or worksite is under the jurisdiction of the employer and;
 - 2. To inspect and investigate during regular working hours and at other reasonable times, within reasonable limits, and in a reasonable manner, any such place of employment and all pertinent conditions, processes, structures, machines, apparatus, devices, equipment, and materials therein, and to question privately any supervisor, operator, agent, or employee working therein.
- b. If an imminent danger situation is found, alleged, or otherwise brought to the attention of the Safety Director or Inspector during a routine inspection, he shall immediately inspect the imminent danger situation in accordance with Section XII of this plan before inspecting the remaining portions of the establishment, facility, or worksite.
- c. An administrative representative of the employer and a representative authorized by the employees shall be given an opportunity to consult with and/or to accompany the Safety Director or Inspector during the physical inspection of any worksite for the purpose of aiding such inspection.
- d. The right of accompaniment may be denied any person whose conduct interferes with a full and orderly inspection.
- e. The conduct of the inspection shall be such as to preclude unreasonable disruptions of the operation(s) of the workplace.
- f. Interviews of employees during the course of the inspection may be made when such interviews are considered essential to investigative techniques.
- g. Advance Notice of Inspections.
 - 1. Generally, advance notice of inspections will not be given as this precludes the opportunity to make minor or temporary adjustments in an attempt to create misleading impression of conditions in an establishment.
 - 2. There may be occasions when advance notice of inspections will be necessary in order to conduct an effective inspection or investigation. When advance notice of inspection is given, employees or their authorized representative(s) will also be given notice of the inspection.
- h. The Safety Director need not personally make an inspection of each and every worksite once every thirty (30) days. He may delegate the responsibility for such inspections to supervisors or other personnel provided:

1. Inspections conducted by supervisors or other personnel are at least as effective as those made by the Safety Director.
 2. Records are made of the inspections, any discrepancies found and corrective actions taken. This information is forwarded to the Safety Director.
- i. The Safety Director shall maintain records of inspections to include identification of worksite inspected, date of inspection, description of violations of standards or other unsafe conditions or practices found, and corrective action taken toward abatement. Those inspection records shall be subject to review by the Commissioner of Labor and Workforce Development or his authorized representative.

XII. IMMINENT DANGER PROCEDURES

- a. Any discovery, any allegation, or any report of imminent danger shall be handled in accordance with the following procedures:
1. The Safety Director shall immediately be informed of the alleged imminent danger situation and he shall immediately ascertain whether there is a reasonable basis for the allegation.
 2. If the alleged imminent danger situation is determined to have merit by the Safety Director, he shall make or cause to be made an immediate inspection of the alleged imminent danger location.
 3. As soon as it is concluded from such inspection that conditions or practices exist which constitutes an imminent danger, the Safety Director or Compliance Inspector shall attempt to have the danger corrected. All employees at the location shall be informed of the danger and the supervisor or person in charge of the worksite shall be requested to remove employees from the area, if deemed necessary.
 4. The administrative or operational head of the workplace in which the imminent danger exists, or his authorized representative, shall be responsible for determining the manner in which the imminent danger situation will be abated. This shall be done in cooperation with the Safety Director or Compliance Inspector and to the mutual satisfaction of all parties involved.
 5. The imminent danger shall be deemed abated if:
 - i. The imminence of the danger has been eliminated by removal of employees from the area of danger.
 - ii. Conditions or practices which resulted in the imminent danger have been eliminated or corrected to the point where an unsafe condition or practice no longer exists.
 6. A written report shall be made by or to the Safety Director describing in detail the imminent danger and its abatement. This report will be maintained by the Safety Director in accordance with subsection (i) of Section XI of this plan.
- b. Refusal to Abate.
1. Any refusal to abate an imminent danger situation shall be reported to the Safety Director and Chief Executive Officer immediately.
 2. The Safety Director and/or Chief Executive Officer shall take whatever action may be necessary to achieve abatement.

XIII. ABATEMENT ORDERS AND HEARINGS

- a. Whenever, as a result of an inspection or investigation, the Safety Director or Compliance Inspector(s) finds that a worksite is not in compliance with the standards, rules or regulations pursuant to this plan and is unable to negotiate abatement with the administrative or operational head of the worksite within a reasonable period of time, the Safety Director shall:
1. Issue an abatement order to the head of the worksite.
 2. Post or cause to be posted, a copy of the abatement order at or near each location referred to in the

abatement order.

b. Abatement orders shall contain the following information:

1. The standard, rule, or regulation which was found to violated.
2. A description of the nature and location of the violation.
3. A description of what is required to abate or correct the violation.
4. A reasonable period of time during which the violation must be abated or corrected.

c. At any time within ten (10) days after receipt of an abatement order, anyone affected by the order may advise the Safety Director in writing of any objections to the terms and conditions of the order. Upon receipt of such objections, the Safety Director shall act promptly to hold a hearing with all interested and/or responsible parties in an effort to resolve any objections. Following such hearing, the Safety Director shall, within three (3) working days, issue an abatement order and such subsequent order shall be binding on all parties and shall be final.

XIV. PENALTIES

- a. No civil or criminal penalties shall be issued against any official, employee, or any other person for failure to comply with safety and health standards or any rules or regulations issued pursuant to this Program Plan.
- b. Any employee, regardless of status, who willfully and/or repeatedly violates, or causes to be violated, any safety and health standard, rule, or regulation or any abatement order shall be subject to disciplinary action by the appointing authority. It shall be the duty of the appointing authority to administer discipline by taking action in one of the following ways as appropriate and warranted:
 1. Oral reprimand.
 2. Written reprimand.
 3. Suspension for three (3) or more working days.
 4. Termination of employment.

XV. CONFIDENTIALITY OF PRIVILEGED INFORMATION

All information obtained by or reported to the Safety Director pursuant to this plan of operation or the legislation (ordinance, or executive order) enabling this Occupational Safety and Health Program Plan which contains or might reveal information which is otherwise privileged shall be considered confidential. Such information may be disclosed to other officials or employees concerned with carrying out this Program Plan or when relevant in any proceeding under this Program Plan. Such information may also be disclosed to the Commissioner of Labor and Workforce Development or their authorized representatives in carrying out their duties under the Tennessee Occupational Safety and Health Act of 1972.

XVI. DISCRIMINATION INVESTIGATIONS AND SANCTIONS

The Rule of Tennessee Department of Labor and Workforce Development Occupational Safety and Health, DISCRIMINATION AGAINST EMPLOYEES EXERCISING RIGHTS UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1972 0800-01-08, as authorized by T.C.A., Title 50. The agency agrees that any employee who believes they have been discriminated against or discharged in violation of Tenn. Code Ann § 50-3-409 can file a complaint with their agency/safety Safety Director within 30 days, after the alleged discrimination occurred. Also, the agency agrees the employee has a right to file their complaint with the Commissioner of Labor and Workforce Development within the same 30 day period. The Commissioner of Labor and Workforce Development may investigate such complaints, make recommendations, and/or issue a written notification of a violation.

XVII. COMPLIANCE WITH OTHER LAWS NOT EXCUSED

- a. Compliance with any other law, statute, ordinance, or executive order, which regulates safety and health in employment and places of employment, shall not excuse the employer, the employee, or any other person from compliance with the provisions of this Program Plan.
- b. Compliance with any provisions of this Program Plan or any standard, rule, regulation, or order issued pursuant to this Program Plan shall not excuse the employer, the employee, or any other person from compliance with the law, statute, ordinance, or executive order, as applicable, regulating and promoting safety and health unless such law, statute, ordinance, or executive order, as applicable, is specifically repealed.

Signature: Safety Director, Occupational Safety and Health and Date

**APPENDIX - I WORK LOCATIONS
(ORGANIZATIONAL CHART)**

Work Location - Name	Address	Contact Person	Phone #	# Employees
Red Bank City Hall	3105 Dayton Blvd Red Bank, TN 37415	Martin Granum	423-877-1103	11
Red Bank Police Department	3117 Dayton Blvd Red Bank, TN 37415	Chief Dan Seymour	423-875-0167	26
Red Bank Fire Department Station 1	3127 Dayton Blvd Red Bank, TN 37415	Chief Brent Sylar	423-443-8468	22
Red Bank Fire Department Station 2	4901 Dayton Blvd Red Bank, TN 37415	Deputy Fire Chief Eddie Iles	423-385-5781	21
Red Bank Public Works	1801 Pinebreeze Rd Red Bank, TN 37415	Public Works Director Greg Tate	423-266-1035	20
Red Bank Municipal Courts	3117 Dayton Blvd Red Bank, TN 37412	Court Clerk Alicia Donahue	423-874-0055	2
Hamilton County Recycling Center	4851B Dayton Blvd Red Bank, TN 37415	Lessily Carter		1
TOTAL				103

APPENDIX – II NOTICE TO ALL EMPLOYEES

NOTICE TO ALL EMPLOYEES OF THE CITY OF RED BANK, TENNESSEE

The Tennessee Occupational Safety and Health Act of 1972 provides job safety and health protection for Tennessee workers through the promotion of safe and healthful working conditions. Under a plan reviewed by the Tennessee Department of Labor and Workforce Development, this government, as an employer, is responsible for administering the Act to its employees. Safety and health standards are the same as State standards and jobsite inspections will be conducted to ensure compliance with the Act.

Employees shall be furnished conditions of employment and a place of employment free from recognized hazards that are causing or are likely to cause death or serious injury or harm to employees.

Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Program Plan which are applicable to his or her own actions and conduct.

Each employee shall be notified by the placing upon bulletin boards or other places of common passage of any application for a temporary variance from any standard or regulation.

Each employee shall be given the opportunity to participate in any hearing which concerns an application for a variance from a standard.

Any employee who may be adversely affected by a standard or variance issued pursuant to this Program Plan may file a petition with the Safety Director or Human Resources Department.

Any employee who has been exposed or is being exposed to toxic materials or harmful physical agents in concentrations or at levels in excess of that provided for by an applicable standard shall be notified by the employer and informed of such exposure and corrective action being taken.

Subject to regulations issued pursuant to this Program Plan, any employee or authorized representative(s) of employees shall be given the right to request an inspection.

No employee shall be discharged or discriminated against because such employee has filed any complaint or instituted or caused to be instituted any proceedings or inspection under, or relating to, this Program Plan.

Any employee who believes he or she has been discriminated against or discharged in violation of these sections may, within thirty (30) days after such violation occurs, have an opportunity to appear in a hearing before City Manager for assistance in obtaining relief or to file a complaint with the Commissioner of Labor and Workforce Development alleging such discrimination.

A copy of the Occupational Safety and Health Program Plan for the Employees of the City of Red Bank is available for inspection by any employee at City Hall during regular office hours.

Signature: City of Red Bank Mayor Hollie Berry (date)

APPENDIX - III PROGRAM PLAN BUDGET

STATEMENT OF FINANCIAL RESOURCE AVAILABILITY

Be assured that the City of Red Bank has sufficient financial resources available or will make sufficient financial resources available as may be required in order to administer and staff its Occupational Safety and Health Program Plan and to comply with standards.

APPENDIX – IV ACCIDENT REPORTING PROCEDURES

(1-15) Employees shall report all accidents, injuries, or illnesses directly to the Safety Director as soon as possible, but not later than twenty-four (24) hours after the occurrence. Such reports may be verbal or in writing. All fatalities, inpatient hospitalizations, amputations, and losses of an eye shall be reported to the Safety Director and/or record keeper immediately, either by telephone or verbally, and will be followed by a written report within four (4) hours after their occurrence. The Safety Director will ensure completion of required reports and records in accordance with Section VIII of the basic plan.

(16-50) Employees shall report all accidents, injuries, or illnesses to their supervisor as soon as possible, but not later than two (2) hours after the occurrence. All fatalities, inpatient hospitalizations, amputations, and losses of an eye shall be reported to the Safety Director and/or record keeper immediately, either by telephone or verbally, and will be followed by a written report within four (4) hours after their occurrence. The supervisor will investigate the accident or illness, complete an accident report, and forward the accident report to the Safety Director and/or record keeper within twenty-four (24) hours of the time the accident or injury occurred or the time of the first report of the illness.

(51-250) Employees shall report all accidents, injuries, or illnesses to their supervisors as soon as possible, but not later than two (2) hours after the occurrence. The supervisor will provide the Safety Director and/or record keeper with the name of the injured or ill employee and a brief description of the accident or illness by telephone as soon as possible, but not later than four (4) hours, after the accident or injury occurred or the time of the first report of the illness. All fatalities, inpatient hospitalizations, amputations, and losses of an eye shall be reported to the Safety Director and/or record keeper immediately, either by telephone or verbally, and will be followed by a written report within four (4) hours after their occurrence. The supervisor will then make a thorough investigation of the accident or illness (with the assistance of the Safety Director or Compliance Inspector, if necessary) and will complete a written report on the accident or illness and forward it to the Safety Director within seventy-two (72) hours after the accident, injury, or first report of illness and will provide one (1) copy of the written report to the recordkeeper.

(251-Plus) Employees shall report all accidents, injuries, or illnesses to their supervisors as soon as possible, but not later than two (2) hours after their occurrence. The supervisor will provide the administrative head of the department with a verbal or telephone report of the accident as soon as possible, but not later than four (4) hours, after the accident. If the accident involves a fatality, hospitalization, amputation, loss of an eye, loss of consciousness, broken bones, or third degree burns, the Safety Director will be notified by telephone immediately and will be given the name of the injured, a description of the injury, and a brief description of how the accident occurred. The supervisor will then make a thorough investigation of the accident or illness (with the assistance of the Safety Director or Compliance Inspector, if necessary) and will complete a written report on the accident or illness and forward it to the Safety Director within seventy-two (72) hours after the accident, injury, or first report of illness and will provide one (1) copy of the written report to the record keeper.

Since Workers Compensation Form 6A or OSHA NO. 301 Form must be completed; all reports submitted in writing to the person responsible for recordkeeping shall include the following information as a minimum:

1. Accident location, if different from employer's mailing address and state whether accident occurred on premises owned or operated by employer.
2. Name, social security number, home address, age, sex, and occupation (regular job title) of injured or ill employee.
3. Title of the department or division in which the injured or ill employee is normally employed.
4. Specific description of what the employee was doing when injured.
5. Specific description of how the accident occurred.
6. A description of the injury or illness in detail and the part of the body affected.

7. Name of the object or substance which directly injured the employee.
8. Date and time of injury or diagnosis of illness.
9. Name and address of physician, if applicable.
10. If employee was hospitalized, name and address of hospital.
11. Date of report.

NOTE: A procedure such as one of those listed above or similar information is necessary to satisfy Item Number 4 listed under PROGRAM PLAN in Section V. ADMINISTRATION, Part b of the Tennessee Occupational Safety and Health Plan. This information may be submitted in flow chart form instead of in narrative form if desired. These procedures may be modified in any way to fit local situations as they have been prepared as a guide only.

The four (4) procedures listed above are based upon the size of the work force and relative complexity of the organization. The approximate size of the organization for which each procedure is suggested is indicated in parenthesis in the left hand margin at the beginning, i.e., (1-15), (16-50), (51-250), and (251 Plus), and the figures relate to the total number of employees including the Chief Executive Officer but excluding the governing body (County Court, City Council, Board of Directors, etc.).

Generally, the more simple an accident reporting procedure is, the more effective it is. Please select the one procedure listed above, or prepare a similar procedure or flow chart, which most nearly fits what will be the most effective for your local situation. Note also that the specific information listed for written reports applies to all three of the procedures listed for those organizations with sixteen (16) or more employees.



MEMORANDUM

To: Members of the Red Bank Planning Commission

Cc: Michael Pham, Community Development Planner

From: Ashley Gates, Regional Planner

Date: August 8, 2023

Subject: Amendment to Section 14-209 of the Zoning Ordinance regarding the public hearing requirements for amendments to the Zoning Ordinance

Background

The Zoning Ordinance has ambiguous language regarding public hearing requirements. The Zoning Ordinance requires public hearings by “the Commission,” but does not specify whether the Planning Commission or Board of Commissioners should hold the public hearing.

State law requires a public hearing by the Board of Commissioners, and that is standard practice in Tennessee. The proposed amendment follows this standard, and clarifies that public hearings are required by the Board of Commissioners.

Staff Recommended Amendment

SECTION 14-209. Changes and Amendments

- 209.01 The Board of Commissioners of the City of Red Bank, Tennessee, may, from time to time, amend, supplement or change the regulations and zones herein or subsequently established; but no amendment shall become effective unless it be first submitted to and approved by the Planning Commission, or if disapproved, shall receive the favorable vote of a majority of the entire membership of the Board of Commissioners.

209.02 Method of Procedure. A proposed change or amendment may originate with the Board of City Commissioners, with the Planning Commission, or on filing a request by a landowner or by a group of landowners filing a petition. The proposed change or amendment must first be referred to the Planning Commission for a recommendation. The City of Red Bank shall give at least fifteen (15) days' notice of the time and place for a public hearing, which shall be held by the ~~Commission~~Board of Commissioners in regard to the proposed changes or amendments. This notice shall be published in a newspaper of general circulation in the City.

209.03 That a Request to Rezone referred to the Board of Commissioners by the Planning Commission, shall not be heard unless said Request is set for public hearing before the Board of Commissioners within three (3) months of the date when the Planning Commission referred said Request to the Board of Commissioners, and such Request shall not be advertised for a public hearing unless the Petitioner pays to the City Recorder a filing fee, together with the costs of the advertisement.
(Ordinance No. 473, April 3, 1984)

FIRST AMENDMENT TO LEASE AGREEMENT

THIS FIRST AMENDMENT TO LEASE AGREEMENT (the “First Amendment”) is made effective this ____ day of _____, 2023 (“Effective Date”), by and between CITY OF RED BANK, a Tennessee municipal corporation (hereinafter referred to as “Lessor”) and STC TWO LLC, a Delaware limited liability company, by and through its Attorney In Fact, Global Signal Acquisitions II LLC, a Delaware limited liability company (hereinafter referred to as “Lessee”).

RECITALS

WHEREAS, Lessor and SprintCom, Inc., a Kansas corporation (“Original Lessee”) entered into a Lease Agreement dated April 20, 1998, a memorandum of which was recorded in the official records of Hamilton County, Tennessee (“Official Records”) on February 5, 1999 at Instrument No. 1999020500255, In Book GI 5283 Page 565 (the “Agreement”) whereby Original Lessee leased certain real property, together with access and utility easements, located in Hamilton County, Tennessee from Lessor (the “Site”), all located within certain real property owned by Lessor (“Lessor’s Property”); and

WHEREAS, STC Two LLC is currently the Lessee under the Agreement as successor in interest to the Original Lessee; and

WHEREAS, the Site may be used for the purpose of constructing, maintaining and operating a communications facility, including tower structures, equipment shelters, cabinets, meter boards, utilities, antennas, equipment, and additional installations of personal property or fixtures incidental thereto; and

WHEREAS, the Agreement had an initial term that commenced on April 20, 1998 and expired on April 19, 2003. The Agreement provides for four (4) extensions of five (5) years each, all four (4) of which were exercised by Lessee. According to the Agreement, the final extension expired on April 19, 2023; and

WHEREAS, Lessor and Lessee desire to amend the Agreement on the terms and conditions contained herein.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are acknowledged, Lessor and Lessee agree as follows:

1. Recitals; Defined Terms. The parties acknowledge the accuracy of the foregoing recitals. Any capitalized terms not defined herein shall have the meanings ascribed to them in the Agreement. All references in the Agreement to the capitalized term “SprintCom” shall be replaced with “Lessee”. All references in the Agreement to the capitalized term “Red Bank” or “City” shall be replaced with “Lessor”.

2. Ratification. Lessor and Lessee agree that Lessee is the current Lessee under the Agreement, the Agreement is in full force and effect, as it may have been previously amended and as amended herein, and the Agreement contains the entire agreement between Lessor and Lessee

with respect to the Site.

3. Term. Section 2 of the Agreement is hereby deleted in its entirety and the following inserted in its place:

The initial term of this Agreement shall be for a period of five (5) years commencing on April 20, 1998 ("Commencement Date") and expiring on April 19, 2003 (the "Initial Term"). At the conclusion of the Initial Term, Lessee shall be entitled to nine (9) extensions of five (5) years each, with the final lease extension expiring on April 19, 2048 (each extension is referred to as a "Renewal Term"). The Initial Term and any Renewal Term shall be collectively referred to as the "Lease Term". The Lease Term shall automatically be extended for each successive Renewal Term unless Lessee notifies Lessor of its intention not to renew at least ninety (90) days prior to the expiration of the then current five year term.

Lessor and Lessee hereby acknowledge that Lessee has exercised four (4) Renewal Terms, leaving a balance of five (5) Renewal Terms.

4. Rent.

a) One Time Rent Increase. On April 1, 2023 the monthly rent shall increase to Two Thousand Five Hundred and 00/100 Dollars (\$2,500.00) per month. This rent increase replaces and is in lieu of the regular rent increase scheduled to occur pursuant to the Agreement on or about April 20, 2023. Following such increase, the monthly rent shall continue to adjust pursuant to the terms of the Agreement.

b) Rent Escalation. Commencing on April 1, 2024 and on the anniversary of that date each year thereafter (the "Adjustment Date"), the monthly rent shall increase based on the Consumer Price Index published by the Bureau of Labor and Statistics of the United States Department of Labor for all Urban Consumers, US City Average, All Items, Not Seasonally Adjusted, Base Period 1982-84=100 ("CPI-U") indicator and shall be determined by dividing the CPI-U indicator, published three (3) months prior to the Adjustment Date, by the CPI-U indicator published one (1) year and three (3) months prior to the Adjustment Date, and multiplying the resultant number by the monthly lease rental amount of the most recent rent. In no event shall the increase in rent calculated for any one (1) year period fall below three and one-half percent (3.5%) or exceed five percent (5%) of the most recent rent. In the event of a decrease in the CPI-U indicator, the rent will not decrease but will remain the same as in the previous year. Such rent escalations shall replace any rent escalations currently in the Agreement, including those rent escalations set forth in Section 3 of the Agreement.

5. Consent to Sublease. In accordance with Section 5 of the Agreement, Lessor hereby acknowledges and agrees to the sublease of a portion of the Site to Dish Network Corporation or an affiliate or subsidiary (the "Dish Subtenant") for purposes of installation, maintenance and replacement of equipment, antennas, cables, fiber, and related accessories on the Site for the operation of a wireless communications facility thereon. In accordance with Section 6 of the Agreement, Lessor consents to the installation, maintenance and replacement of such improvements reasonably required by the Dish Subtenant to operate on the Site, as depicted in the Construction Drawings attached hereto as Exhibit C. As used herein, the term "sublease" includes

any arrangement by which a third party can collocate its equipment at the Site, whether it is by sublease, license, easement or any other agreement or arrangement.

6. First Additional Lease Area. The existing Site is hereby expanded in size to include additional space, which consists of a seventy seven and one-half (77.5) square foot parcel of real property adjacent to the existing Site at a location more particularly described on Exhibit A-1 attached hereto and shown on the Site Plan attached hereto as Exhibit B (the "First Additional Lease Area"). The Site, as expanded, is described on Exhibit A-2 attached hereto. Notwithstanding anything to the contrary in this First Amendment, Lessee is not relinquishing any rights to any lease area, access easements, and/or utility easements that it possesses prior to the date of this First Amendment. In the event the location of any of Lessee's or its sublessees' existing improvements, utilities, and/or access routes are not depicted or described on the Site Plan and/or legal descriptions, Lessee's leasehold rights and access and utility easement rights over such areas shall remain in full force and effect and the Site shall be deemed to include such areas.

7. First Additional Rent. In consideration of the lease of the First Additional Lease Area, Lessee shall pay to Lessor the amount of Four Hundred Fifty and 00/100 Dollars (\$450.00) per month ("First Additional Rent"), beginning upon the commencement of installation of improvements within the First Additional Lease Area and continuing thereafter until the earlier of (i) the expiration of the Lease Term; or (ii) the "Return of the First Additional Lease Area" as set forth below. The First Additional Rent shall be due and payable concurrently with and shall escalate upon the same terms and at the same time as the monthly Rent set forth in the Agreement, as amended, for so long as such First Additional Rent is payable to Lessor as set forth herein.

8. Right to Return the First Additional Lease Area. Lessee shall have the option, upon thirty (30) days prior written notice to Lessor, in its sole and absolute discretion, to return the First Additional Lease Area to the Lessor and to terminate the lease of the same by removing all improvements from the First Additional Lease Area and returning same to its condition as of the Effective Date, ordinary wear and tear excepted (the "Return of the First Additional Lease Area"). Effective upon removal of all improvements from the First Additional Lease Area, the First Additional Rent shall cease and will no longer be due or payable.

9. Utility Easement Relocation. Lessor shall have the right, upon not less than one hundred eighty (180) days' notice to Lessee, to relocate the existing utility right of way and utility service to a new location, which shall be approved by Lessee which shall not be unreasonably withheld, conditioned or delayed, provided that: 1) Lessee and its sublessees and licensees shall at all times have uninterrupted utility service and access to the Site during and after the relocation work; 2) the relocation does not interfere in any respect with Lessee and its sublessees' use, access, or operations at the Site; 3) there are no conditions, restrictions, encumbrances, easements or third party interests that could result in reduction or termination of Lessee's utility easement if relocated; 4) Lessor, in close coordination with all utilities, shall determine the scope of work to be performed to relocate the utility service and shall select the contractor approved by the utilities or have each utility complete the work, provided, however, that the scope of work is subject to the approval of Lessee which shall not be unreasonably withheld, conditioned or delayed; 5) the new utility service and capacity shall be equal to or better than the existing utility service and capacity and shall be sufficient to meet the power requirements of the wireless communications facilities on the Site; 6)

the relocation work is performed at Lessor's and/or the utility company's sole expense; 7) Lessor provides Lessee with a map showing the size and location of the utility easement, if different than the existing utility easement, at least one hundred eighty (180) days prior to the relocation of the utility service and/or utility easement; and 8) prior to commencement of work, Lessor and/or the utility company shall acquire all necessary consents and approvals of the relocation work from the appropriate utility providers, governmental entities and Lessee's sublessees and licensees. For clarification purposes, the not less than one hundred eighty (180) day time period referenced in the above relocation provisions relates to advance notice, only, and does not govern the time frame within which the construction and relocation work is to be completed. Further, any amendment shall not indicate or imply that the Lessor or Lessee is placing any restrictions whatsoever on the utility providers should they desire to relocate or terminate service. Subject to the provisions as set forth above, Lessor shall be responsible for the coordination of the utility easement relocation.

10. Signing Bonus. Lessee will pay to Lessor a one-time amount of Ten Thousand and 00/100 Dollars (\$10,000.00) for the full execution of this First Amendment, payable within thirty (30) days of the full execution of this First Amendment ("Conditional Signing Bonus"). In the event that this First Amendment (and any applicable memorandum of Agreement and/or amendment) is not fully executed by both Lessor and Lessee for any reason, Lessee shall have no obligation to pay the Conditional Signing Bonus to Lessor.

11. Representations, Warranties and Covenants of Lessor. Lessor represents, warrants and covenants to Lessee as follows:

a) Lessor is duly authorized to and has the full power and authority to enter into this First Amendment and to perform all of Lessor's obligations under the Agreement as amended hereby.

b) Lessee is not currently in default under the Agreement, and to Lessor's knowledge, no event or condition has occurred or presently exists which, with notice or the passage of time or both, would constitute a default by Lessee under the Agreement.

c) Lessor agrees to provide such further assurances as may be requested to carry out and evidence the full intent of the parties under the Agreement as amended hereby, and ensure Lessee's continuous and uninterrupted use, possession and quiet enjoyment of the Site under the Agreement as amended hereby.

d) Lessor acknowledges that the Site, as defined, shall include any portion of Lessor's Property on which communications facilities or other Lessee improvements exist on the date of this First Amendment.

12. Notices. Lessee's notice address as stated in Section 6 of the Agreement is amended as follows:

If to Lessee:

STC Two LLC

c/o Crown Castle USA Inc.

Attn: Legal - Real Estate Department

2000 Corporate Drive

Canonsburg, PA 15317

13. IRS Form W-9. Lessor agrees to provide Lessee with a completed IRS Form W-9, or its equivalent, upon execution of this First Amendment and at such other times as may be reasonably requested by Lessee. In the event the Lessor's Property is transferred, the succeeding Lessor shall have a duty at the time of such transfer to provide Lessee with a completed IRS Form W-9, or its equivalent, and other related paper work to effect a transfer in the rent to the new Lessor. Lessor's failure to provide the IRS Form W-9 within thirty (30) days after Lessee's request shall be considered a default and Lessee may take any reasonable action necessary to comply with IRS regulations including, but not limited to, withholding applicable taxes from rent payments.

14. Counterparts. This First Amendment may be executed in separate and multiple counterparts, each of which shall be deemed an original but all of which taken together shall be deemed to constitute one and the same instrument.

15. Remainder of Agreement Unaffected. In all other respects, the remainder of the Agreement shall remain in full force and effect. Any portion of the Agreement that is inconsistent with this First Amendment is hereby amended to be consistent.

16. Recordation. Lessee, at its cost and expense, shall have the right to record a memorandum of this First Amendment in the Official Records at any time following the execution of this First Amendment by all parties hereto. In addition, Lessee shall have the right in its discretion, to record a notice of lease, affidavit or other form to be determined by Lessee without Lessor's signature in form and content substantially similar to the memorandum, to provide record notice of the terms of this First Amendment.

[Signature pages follow]

Lessor and Lessee have caused this First Amendment to be duly executed on the day and year first written above.

LESSOR:

CITY OF RED BANK, a Tennessee
municipal corporation

By: _____

Print Name: _____

Title: _____

Lessor affirms that this First Amendment was
approved at a duly noticed public meeting
held on _____ 2023

[Lessee Execution Page Follows]

This First Amendment is executed by Lessee as of the date first written above.

LESSEE:

STC TWO LLC, a Delaware limited liability company

By: Global Signal Acquisitions II LLC, a
Delaware limited liability company
Its: Attorney In Fact

By: _____

Print Name: _____

Title: _____

Exhibit A-1
(Legal Description of the First Additional Lease Area)

[See attached]

**875398 – RED BANK
3117A DAYTON BLVD. RED BANK, TN 37415
HAMILTON COUNTY
ADDITIONAL LEASE DESCRIPTION
(AS SURVEYED)**

Situated in Red Bank, Hamilton County, Tennessee, being located approximately 400 feet southwest of the intersection of Dayton Blvd. and Newberry St. W. and being more particularly described as follows:

COMMENCING at a concrete monument located at Tennessee State Plane Coordinates N: 282129.19 E: 2178383.76, thence, South 12 degrees 27 minutes 47 seconds East, 104.01 feet to a point at Tennessee State Plane Coordinates N: 282027.63 E: 2178406.21, this being the **TRUE POINT OF BEGINNING**;

Thence, South 26 degrees 51 minutes 02 seconds East, 8.33 feet to a point;

Thence, South 35 degrees 02 minutes 42 seconds West, 8.50 feet to a point;

Thence, North 26 degrees 51 minutes 02 seconds West, 12.34 feet to a point;

Thence, North 63 degrees 08 minutes 58 seconds East, 7.50 feet to the **POINT OF BEGINNING**. Containing 77.52 square feet, or 0.002 acres, more or less.

OWNER: CITY OF RED BANK

PARCEL ID: 117E K 008

DEED REFERENCE: INST. NO. 10228-0739

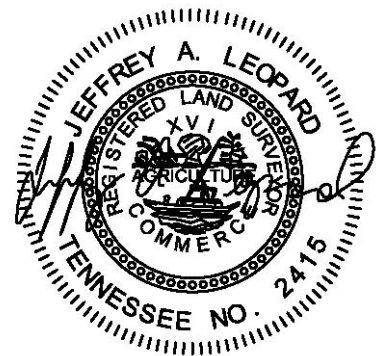


Exhibit A-2
(Legal Description of the Site, as expanded)

[See attached (Site, as expanded (comprised of the Tower Lease and Additional Lease))]

**875398 – RED BANK
3117A DAYTON BLVD. RED BANK, TN 37415
HAMILTON COUNTY
TOWER LEASE DESCRIPTION
(AS SURVEYED)**

Situated in Red Bank, Hamilton County, Tennessee, being located approximately 400 feet southwest of the intersection of Dayton Blvd. and Newberry St. W. and being more particularly described as follows:

COMMENCING at a concrete monument located at Tennessee State Plane Coordinates N: 282129.19 E: 2178383.76, thence, South 15 degrees 10 minutes 45 seconds East, 109.36 feet to a fence post (found) at Tennessee State Plane Coordinates N: 282023.65 E: 2178412.39, this being the **TRUE POINT OF BEGINNING**;

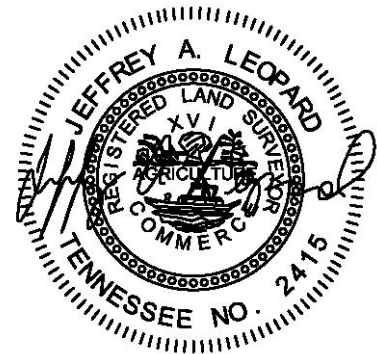
Thence, South 54 degrees 48 minutes 28 seconds East, 11.10 feet to a fence post (found);

Thence, South 34 degrees 23 minutes 43 seconds West, 31.13 feet to a fence post (found);

Thence, North 55 degrees 36 minutes 28 seconds West, 11.45 feet to an iron pin (found);

Thence, North 35 degrees 02 minutes 42 seconds East, 31.29 feet to the **POINT OF BEGINNING**. Containing 351.87 square feet, or 0.01 acres, more or less.

OWNER: CITY OF RED BANK
PARCEL ID: 117E K 008
DEED REFERENCE: INST. NO. 10228-0739



**875398 – RED BANK
3117A DAYTON BLVD. RED BANK, TN 37415
HAMILTON COUNTY
ADDITIONAL LEASE DESCRIPTION
(AS SURVEYED)**

Situated in Red Bank, Hamilton County, Tennessee, being located approximately 400 feet southwest of the intersection of Dayton Blvd. and Newberry St. W. and being more particularly described as follows:

COMMENCING at a concrete monument located at Tennessee State Plane Coordinates N: 282129.19 E: 2178383.76, thence, South 12 degrees 27 minutes 47 seconds East, 104.01 feet to a point at Tennessee State Plane Coordinates N: 282027.63 E: 2178406.21, this being the **TRUE POINT OF BEGINNING**;

Thence, South 26 degrees 51 minutes 02 seconds East, 8.33 feet to a point;

Thence, South 35 degrees 02 minutes 42 seconds West, 8.50 feet to a point;

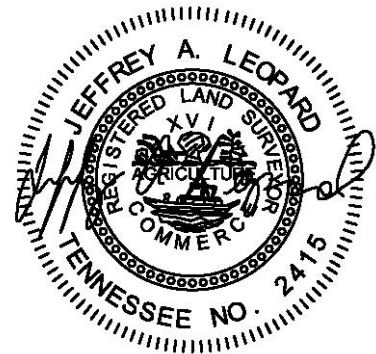
Thence, North 26 degrees 51 minutes 02 seconds West, 12.34 feet to a point;

Thence, North 63 degrees 08 minutes 58 seconds East, 7.50 feet to the **POINT OF BEGINNING**. Containing 77.52 square feet, or 0.002 acres, more or less.

OWNER: CITY OF RED BANK

PARCEL ID: 117E K 008

DEED REFERENCE: INST. NO. 10228-0739



**875398 – RED BANK
3117A DAYTON BLVD. RED BANK, TN 37415
HAMILTON COUNTY
20' ACCESS & UTILITY EASEMENT DESCRIPTION
(AS SURVEYED)**

Situated in Red Bank, Hamilton County, Tennessee, being located approximately 400 feet southwest of the intersection of Dayton Blvd. and Newberry St. W. and being more particularly described as follows:

COMMENCING at a concrete monument located at Tennessee State Plane Coordinates N: 282129.19 E: 2178383.76, thence, South 15 degrees 10 minutes 45 seconds East, 109.36 feet to a fence post (found) at Tennessee State Plane Coordinates N: 282023.65 E: 2178412.39, this being the **TRUE POINT OF BEGINNING**;

Thence, South 35 degrees 02 minutes 42 seconds West, 4.22 feet to a point;

Thence, North 26 degrees 51 minutes 02 seconds West, 8.33 feet to a point;

Thence, South 63 degrees 08 minutes 58 seconds West, 7.50 feet to a point;

Thence, South 26 degrees 51 minutes 02 seconds East, 12.34 feet to a point;

Thence, South 35 degrees 02 minutes 42 seconds West, 18.94 feet to a point;

Thence, North 54 degrees 52 minutes 04 seconds West, 48.76 feet to a point;

Thence, North 34 degrees 12 minutes 42 seconds East, 95.99 feet to a point;

Thence, South 55 degrees 48 minutes 43 seconds East, 145.17 feet to a point;

Thence, South 34 degrees 26 minutes 58 seconds West, 20.00 feet to a point;

Thence, North 55 degrees 48 minutes 43 seconds West, 125.09 feet to a point;

Thence, South 34 degrees 12 minutes 42 seconds West, 56.31 feet to a point;

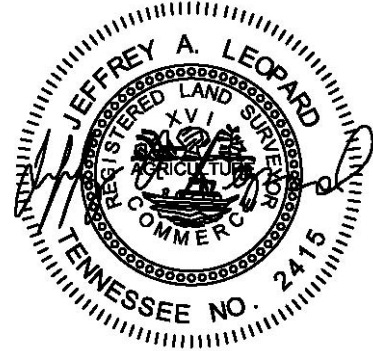
Thence, South 54 degrees 52 minutes 04 seconds East, 1.36 feet to a point;

Thence, North 35 degrees 07 minutes 56 seconds East, 31.67 feet to a point;

Thence, South 54 degrees 05 minutes 04 seconds East, 27.65 feet to a point;

Thence, South 35 degrees 05 minutes 19 seconds West, 20.00 feet to the **POINT OF BEGINNING**, Containing 5,802.16, or 0.13 acres, more or less.

OWNER: CITY OF RED BANK
PARCEL ID: 117E K 008
DEED REFERENCE: INST. NO. 10228-0739



**875398 – RED BANK
3117A DAYTON BLVD. RED BANK, TN 37415
HAMILTON COUNTY
10' UTILITY EASEMENT DESCRIPTION
(AS SURVEYED)**

Situated in Red Bank, Hamilton County, Tennessee, being located approximately 400 feet southwest of the intersection of Dayton Blvd. and Newberry St. W. and being more particularly described as follows:

Being a ten foot wide utility easement and being five feet on either side of and running parallel with the following described centerline:

COMMENCING at a concrete monument located at Tennessee State Plane Coordinates N: 282129.19 E: 2178383.76, thence, South 05 degrees 57 minutes 22 seconds East, 142.81 feet to a point at Tennessee State Plane Coordinates N:281987.43 E:2178401.06, this being the **TRUE POINT OF BEGINNING**;

Thence, North 55 degrees 36 minutes 28 seconds West, 6.51 feet to a point;

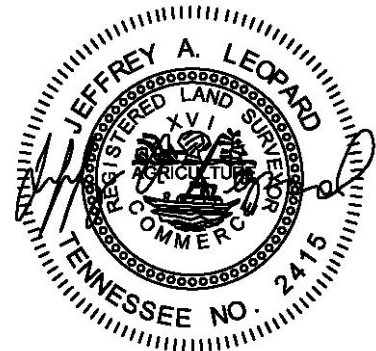
Thence, South 35 degrees 02 minutes 42 seconds West, 0.44 feet to a point;

Thence, North 54 degrees 52 minutes 04 seconds West, 23.55 feet to a point;

Thence, South 34 degrees 12 minutes 04 seconds West, 81.70 feet to a point;

Thence, South 62 degrees 44 minutes 18 seconds East, 115.17 feet to the **POINT OF BEGINNING**, Containing 2,273.75, or 0.05 acres, more or less.

OWNER: CITY OF RED BANK
PARCEL ID: 117E K 008
DEED REFERENCE: INST. NO. 10228-0739



**Exhibit B
(Site Plan)**

[See attached]

TOWER SURVEY

875398

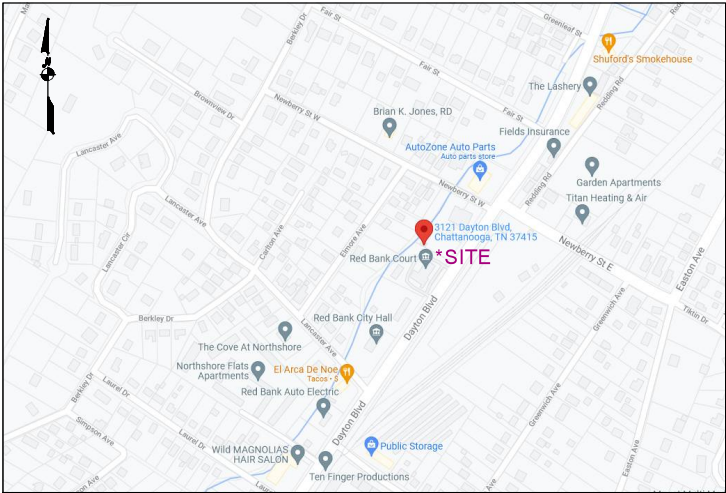
RED BANK

3117A DAYTON BLVD.
RED BANK, TN 37415
HAMILTON COUNTY

LEGEND

Additional Land Building		IP / Rebar Monu		Transformer (Aerial)	
Asphalt Pavement		IP / Rebar Monu- Found		Transformer Pad	
Contour - Major		Cased Monu		Catch Basin	
Contour - Minor		Cased Monu - Found		Inlet	
Easement		Traverse Point		Culvert	
Guiderail		Survey Point		Utility Vault	
Jurisdiction Line		Gravel		Manhole	
Property Line		Dirt		Handhole	
Property Tie		Concrete		Pull box	
Parent Property		Retaining Wall		Pedestal	
Tower Easement		Stairs		Riser	
Right of Way		Door / Gate		Meter	
Setback		Double Door / Gate		Valve	
Treeline		Gate - Sliding		Cleanout	
Wetland		Signs		Junction Box	
Railroad Tracks		Mailbox		Pump Station	
Centerline		Column		Utility Box	
Road Centerline		Utility Pole		Controller	
Stream		Guyed Pole		HVAC	
Stream (Directional)		Pole		Generator	
Ditch		Bollard			
Channel		Fire Hydrant			
Fence		Flag Pole			
Cable UG		Shrub			
Combined Sewer		Tree - Palm			
Cable TV & Elec		Tree - Conferous			
Cable TV & Elec UG		Tree - Deciduous			
Cable, Elec, & Tele		Metal Platform			
Cable, Elec, & Tele UG		Fuel Tanks			
Electric		Traffic Signal Controller			
Electric UG					
Fiber					
Fiber UG					
Gas					
Sewer					
Storm					
Telephone					
Telephone UG					
Unknown Utility					
Water					
Topo - High Point					
Topo - Low Point					
Breakline					
Match line					
Property Tie					

VICINITY MAP
NTS



AREA SUMMARY

AREA	SQ. FT.	ACRES
PARENT PARCEL	92,782.80 +/-	2.13 +/-
TOWER LEASE	351.87	0.01
ACCESS & UTILITY EASEMENT	5,802.16	0.13
ADDITIONAL LEASE	77.52	0.002
10' UTILITY EASEMENT	2,273.75	0.05
TOWER COMPOUND	351.87	0.01

CONTENTS

COVER SHEET
PROPERTY OVERVIEW
EASEMENT OVERVIEW
SITE OVERVIEW
SITE OVERVIEW DETAIL (INTERNAL USE)
LEGAL DESCRIPTIONS

COORDINATES

For internal use

LABEL	NORTHING, EASTING
POC (ALL)	N:282129.19 E:2178383.76
POB TOWER LEASE	N:282023.65 E:2178412.39

ABBREVIATIONS

POC	POINT OF COMMENCEMENT
POB	POINT OF BEGINNING
ROW	RIGHT OF WAY

SURVEY PERFORMED FOR:



SURVEY COORDINATED BY:

GEOLINE SURVEYING, INC.
13430 NW 10th Terrace, Suite A, Alachua, FL 32615
Tele: (386) 418-0500 | Fax: (386) 462-9986

SURVEY PERFORMED BY:

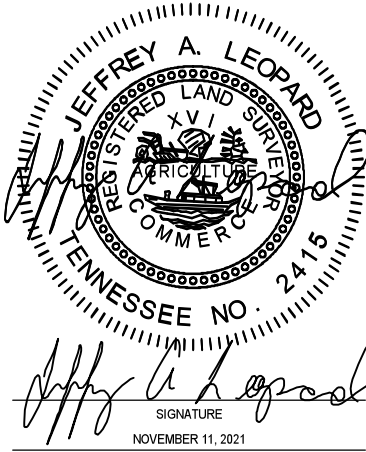
B2L LAND SURVEYORS
1198 Old Pinnacle Rd. Joelton, TN 37080
Tele: (615) 212-5703 | Fax: (615) 751-5316

DRAWN BY: CB | CHK BY: JL | JOB NO.: LS-1384

SURVEYOR'S CERTIFICATION:

I hereby certify to Crown Castle USA Inc., including its parents, subsidiaries, and affiliated entities, and Westcor Land Title Insurance Company.

SURVEYOR NAME: Jeffrey A. Leopard



ZONING: N/A

FLOOD NOTE:

TOWER AREA LIES IN AN AREA DESIGNATED AS A SPECIAL FLOOD HAZARD (ZONE "AE") AS PER MAP PANEL NO. 47065C0331G, BEARING AN EFFECTIVE DATE OF FEBRUARY 3, 2016 ACCORDING TO FEMA.GOV

BEARING BASIS:

BASIS OF BEARING, TENNESSEE STATE PLANE COORDINATE SYSTEM, BASED ON GPS OBSERVATIONS.

NOTES:

- SURVEY PERFORMED ON 11/11/21.
- DATA PROJECTED IN STATE PLANE COORDINATE SYSTEM, T.S.P.C.S., WITH NAVD 88 VERTICAL DATUM. EPSG CODE: 2274
- NO SUBSURFACE INVESTIGATION WAS PERFORMED TO LOCATE UNDERGROUND UTILITIES. UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED EVIDENCE ONLY.
- ALL VISIBLE TOWER EQUIPMENT AND IMPROVEMENTS ARE CONTAINED WITHIN THE DESCRIBED AREA, UNLESS OTHERWISE NOTED HEREON.
- NOT ALL SYMBOLS ARE DEPICTED TO SCALE.
- THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.

REV	DATE	DESCRIPTION	DRWN
-	-	-	-
-	-	-	-
-	-	-	-

SITE INFORMATION:

Name	RED BANK
BUN	875398
Address	3117A DAYTON BLVD. RED BANK, TN 37145
County	HAMILTON

SITE LOCATED IN:
SITUATED IN HAMILTON COUNTY, TENNESSEE

TOWER SURVEY

SHEET: COVER SHEET

PROPERTY INFORMATION

PARENT PARCEL

1 CITY OF RED BANK
PARCEL ID: 117E K 008
INST. NO. 10228-0739

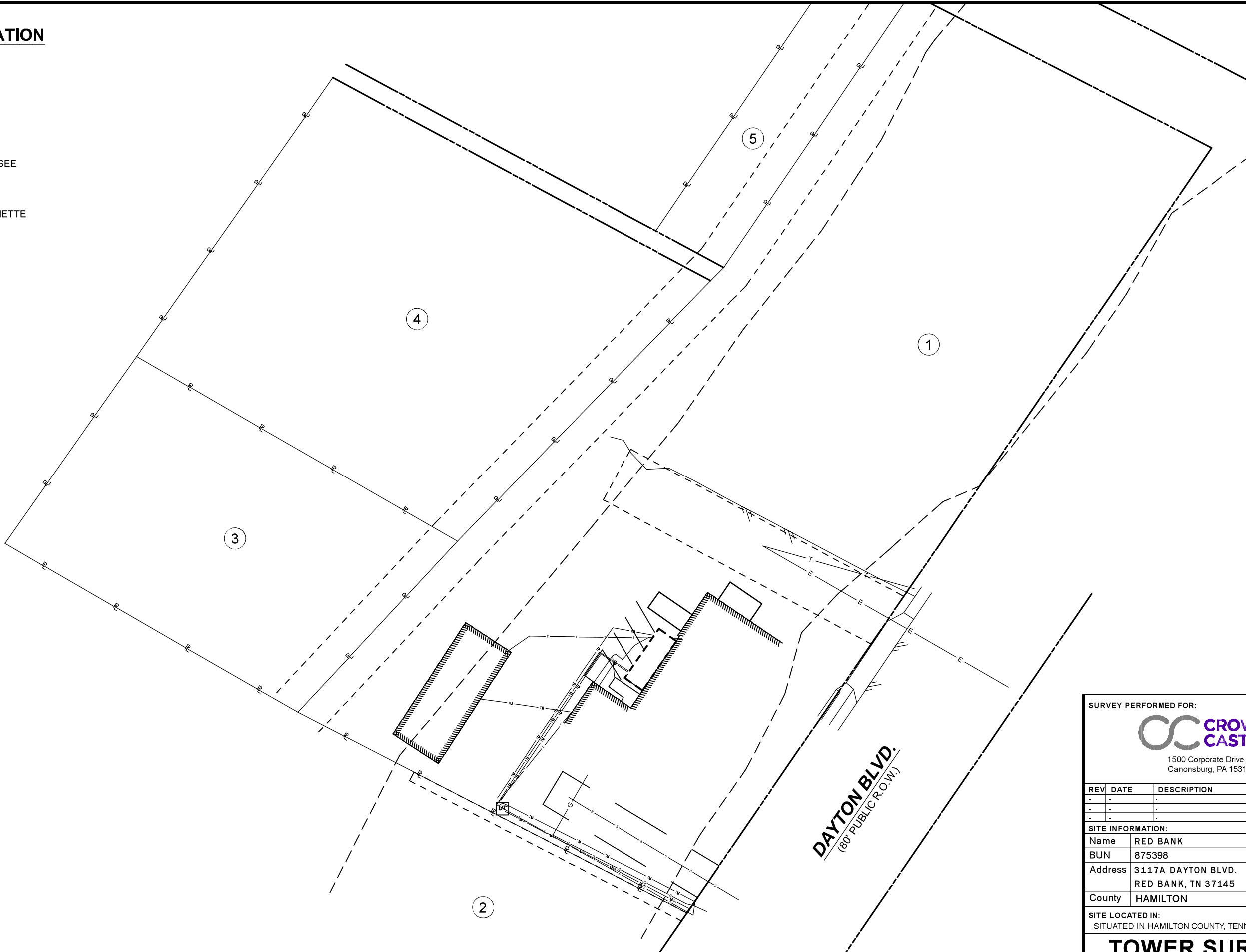
ADJACENT PARCLES

2 CITY OF RED BANK TENNESSEE
PARCEL ID: 117E K 010
INST. NO. 12364-0560

3 LESTER & WILLIE MAE BARNETTE
PARCEL ID: 117E K 017
BOOK 5881 PG 43

4 CITY OF RED BANK
PARCEL ID: 117E K 008.01
INST NO. 10228-0739

5 JAMES E & DORA K BEACH
PARCEL ID: 117E K 004
BOOK 2265 PAGE 870



SURVEY PERFORMED FOR:



1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRWN
-	-	-	-
-	-	-	-
-	-	-	-

SITE INFORMATION:	
Name	RED BANK
BUN	875398
Address	3117A DAYTON BLVD. RED BANK, TN 37145
County	HAMILTON

SITE LOCATED IN:
SITUATED IN HAMILTON COUNTY, TENNESSEE

TOWER SURVEY

SHEET: PROPERTY OVERVIEW

ADDITIONAL LEASE

LINE	BEARING	DISTANCE
L20	S 26°51'02" E	8.33'
L21	S 35°02'42" W	8.50'
L22	N 26°51'02" W	12.34'
L23	N 63°08'58" E	7.50'

20' ACCESS & UTILITY EASEMENT

LINE	BEARING	DISTANCE
L5	S 35°02'42" W	4.22'
L6	N 26°51'02" W	8.33'
L7	S 63°08'58" W	7.50'
L8	S 26°51'02" E	12.34'
L9	S 35°02'42" W	18.94'
L10	N 54°52'04" W	48.76'
L11	N 34°12'42" E	95.99'
L12	S 55°48'43" E	145.17'
L13	S 34°26'58" W	20.00'
L14	N 55°48'43" W	125.09'
L15	S 34°12'42" W	56.31'
L16	S 54°52'04" E	1.36'
L17	N 35°07'56" E	31.67'
L18	S 54°52'04" E	27.65'
L19	S 35°05'19" W	20.00'

30' PUBLIC DRAINAGE
EASEMENT AS PER
PLAT P3 117/16,
HAMILTON COUNTY
REGISTER'S OFFICE

P.O.C. TOWER LEASE,
ADDITIONAL LEASE
AND 20' ACCESS &
UTILITY EASEMENT
N:282129.19
E:2178383.76

30' POWER AND
COMMUNICATION
EASEMENT AS PER
PLAT P3 117/16,
HAMILTON COUNTY
REGISTER'S OFFICE

20' ACCESS & UTILITY EASEMENT
5802.16 Sq. Feet
0.13 Acres

P.O.B.
ADDITIONAL
LEASE
N:282027.63
E:2178406.21

EXISTING
BUILDING

EXISTING
BUILDING

P.O.B. 10' UTILITY
EASEMENT

10' UTILITY EASEMENT
2273.75 Sq. Feet
0.05 Acres

20' SANITARY SEWER
EASEMENT AS PER
PLAT P3 117/16,
HAMILTON COUNTY
REGISTER'S OFFICE

DAYTON BLVD.
(80' PUBLIC R.O.W.)

TOWER LEASE AND
ADDITIONAL LEASE DETAIL
(1" = 60" SCALE)

ADDITIONAL LEASE
77.52 Sq. Feet
0.002 Acres

TOWER LEASE
351.87 Sq. Feet
0.01 Acres

TOWER LEASE

LINE	BEARING	DISTANCE
L1	S 54°48'28" E	11.10'
L2	S 34°23'43" W	31.13'
L3	N 55°36'28" W	11.45'
L4	N 35°02'42" E	31.29'

10' UTILITY EASEMENT

LINE	BEARING	DISTANCE
L24	N 55°36'28" W	6.51'
L25	S 35°02'42" W	0.44'
L26	N 54°52'04" W	23.55'
L27	S 34°12'04" W	81.70'
L28	S 62°44'18" E	115.17'

5' POWER &
COMMUNICATION
EASEMENT AS PER
PLAT P3 117/16,
HAMILTON COUNTY
REGISTER'S OFFICE

P.O.T. 10' UTILITY
EASEMENT

SURVEY PERFORMED FOR:



1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRWN
-	-	-	-
-	-	-	-
-	-	-	-

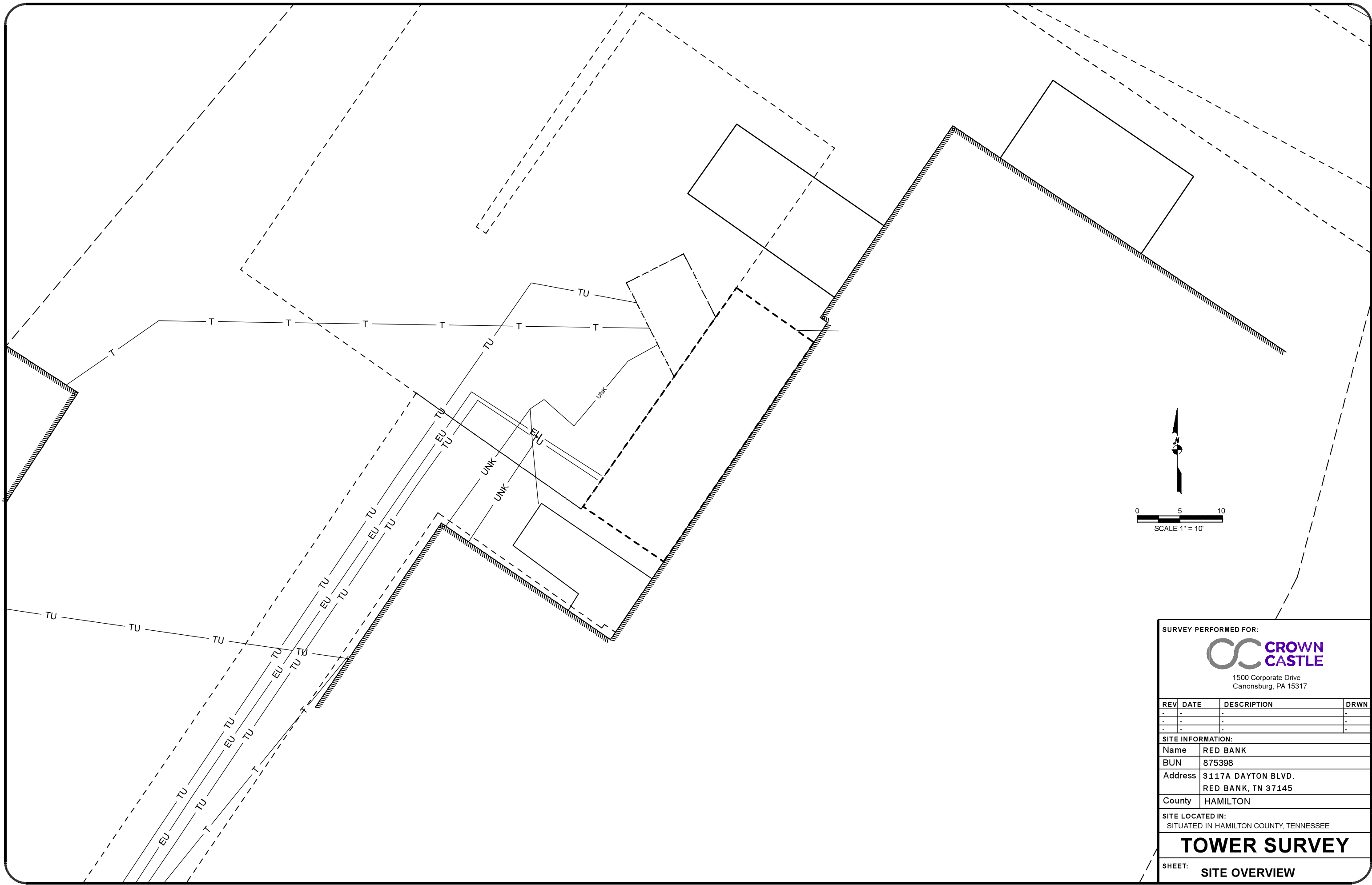
SITE INFORMATION:

Name	RED BANK
BUN	875398
Address	3117A DAYTON BLVD. RED BANK, TN 37145
County	HAMILTON

SITE LOCATED IN:
SITUATED IN HAMILTON COUNTY, TENNESSEE

TOWER SURVEY

SHEET:
EASEMENT ACCESS OVERVIEW



SURVEY PERFORMED FOR:



1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRWN
-	-	-	-
-	-	-	-
-	-	-	-

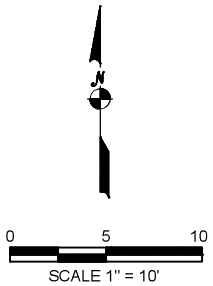
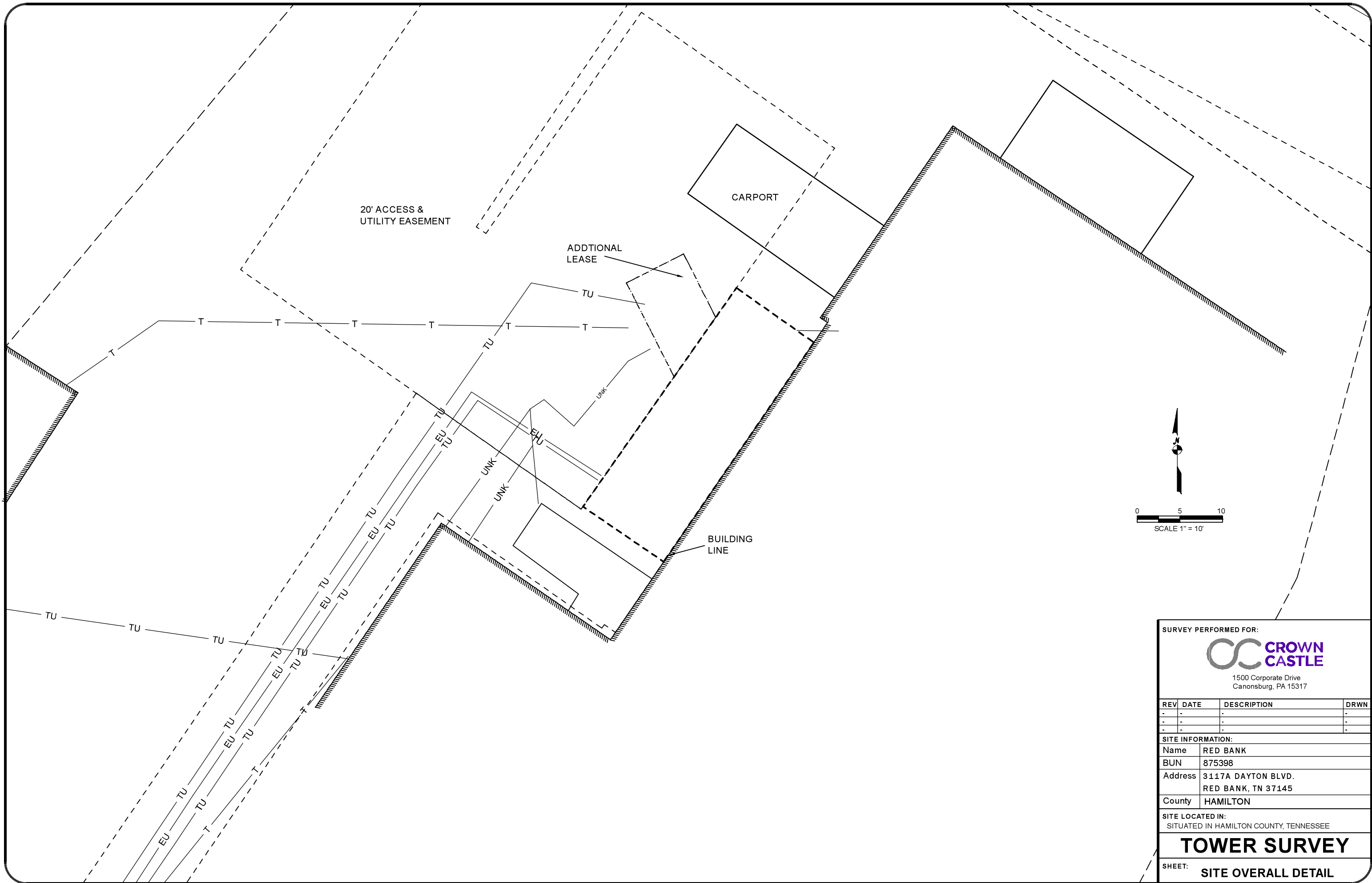
SITE INFORMATION:

Name	RED BANK
BUN	875398
Address	3117A DAYTON BLVD. RED BANK, TN 37145
County	HAMILTON

SITE LOCATED IN:
SITUATED IN HAMILTON COUNTY, TENNESSEE

TOWER SURVEY

SHEET: SITE OVERVIEW



SURVEY PERFORMED FOR:



1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRWN
-	-	-	-
-	-	-	-
-	-	-	-

SITE INFORMATION:

Name	RED BANK
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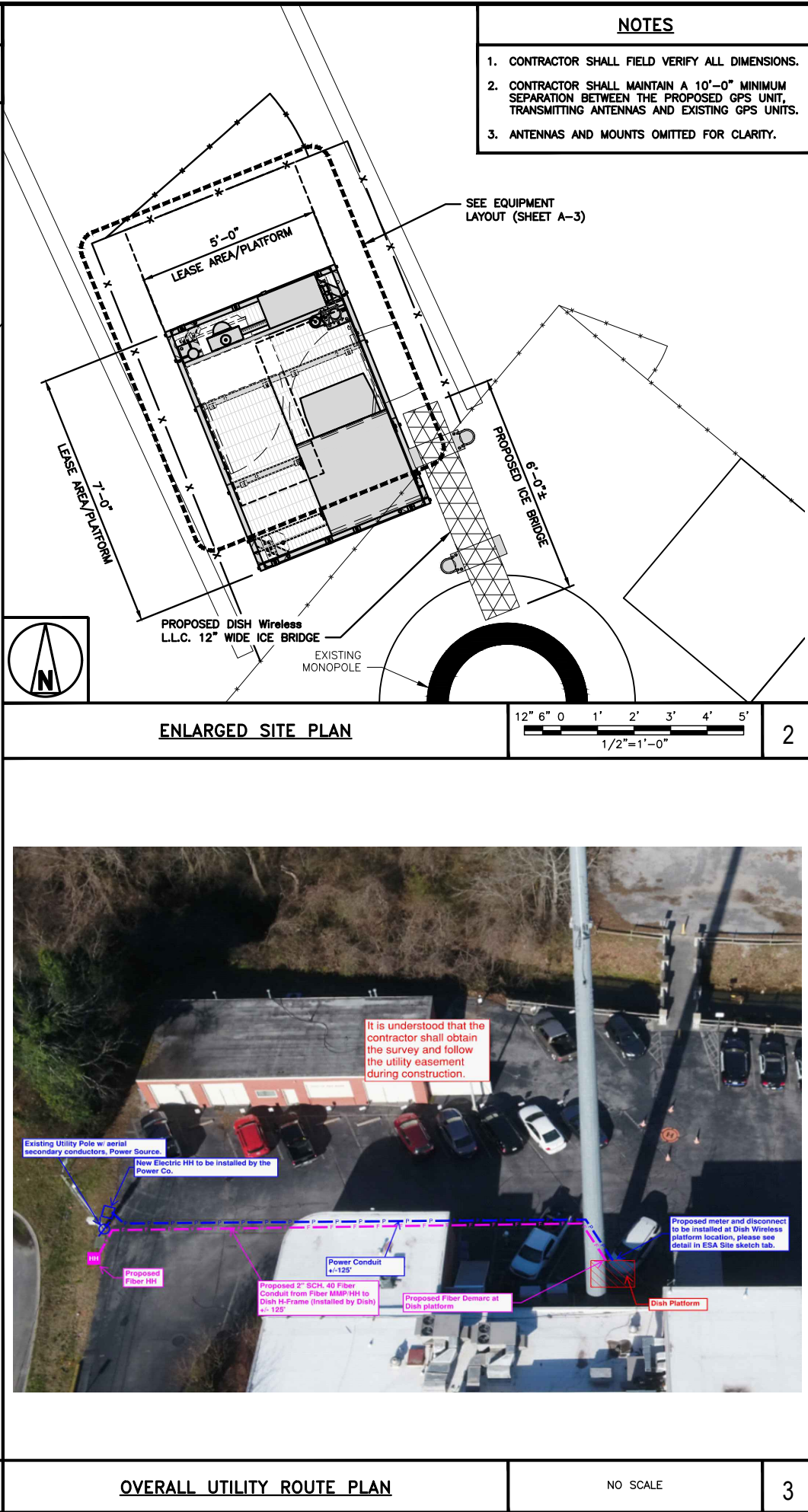
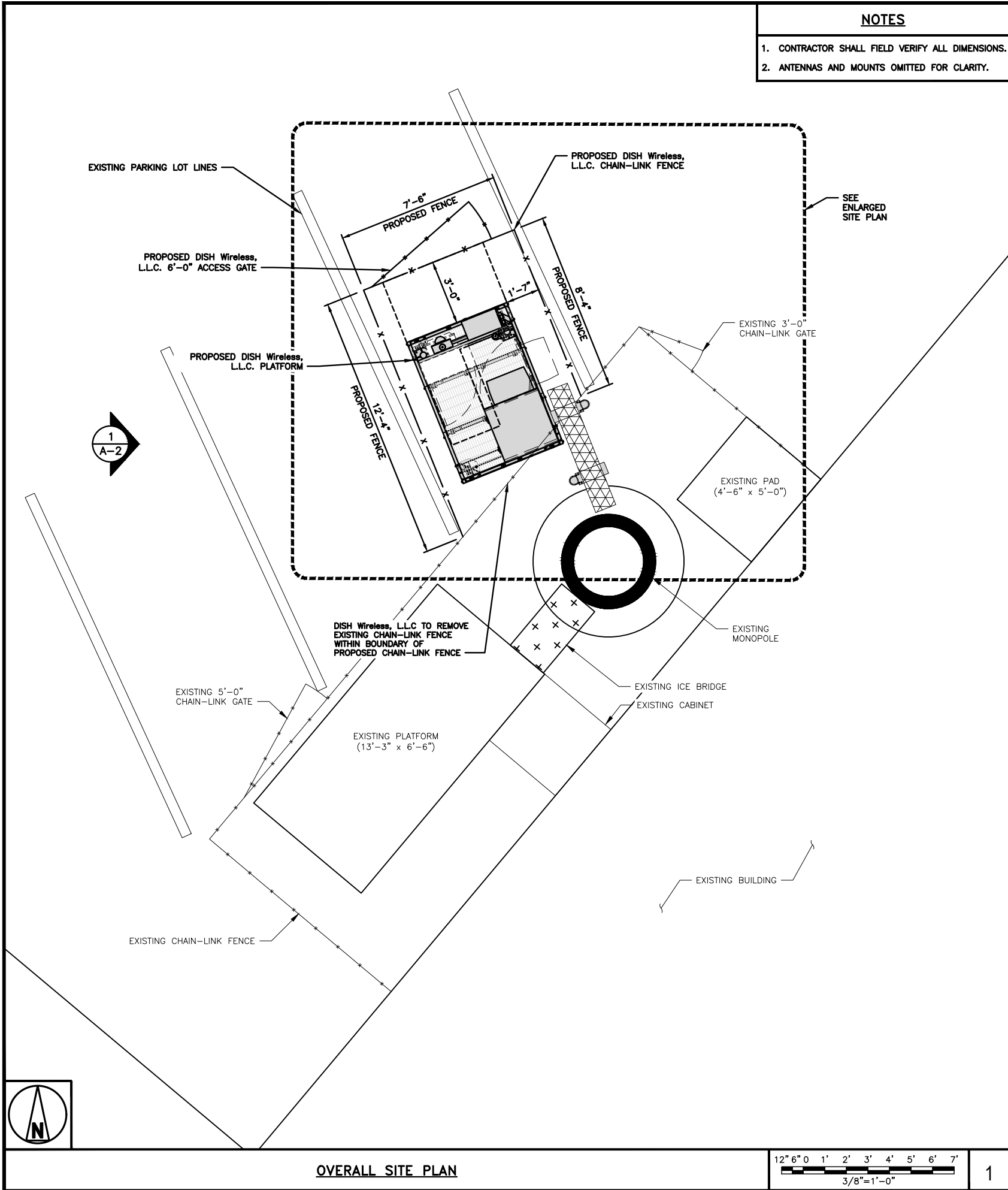
SITE LOCATED IN:
SITUATED IN HAMILTON COUNTY, TENNESSEE

TOWER SURVEY

SHEET: SITE OVERALL DETAIL

Exhibit C
(Construction Drawings)

[See attached]



dish

wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

Kimley»Horn

421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601

SEAL

AVERY VERNON FANN
REGISTERED ENGINEER
No. 118581
STATE OF TENNESSEE

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.

DRAWN BY: GJV

CHECKED BY: MCK

APPROVED BY: ---

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
A	01/17/2022	ISSUED FOR REVIEW
0	02/01/2022	ISSUED FOR CONSTRUCTION
1	06/23/2022	REVISED PER CLIENT
2	08/17/2022	REVISED PER CLIENT
3	01/04/2023	REVISED PER CLIENT

A&E PROJECT NUMBER

KHCLC-19375

DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE

OVERALL AND ENLARGED SITE PLAN

SHEET NUMBER

A-1

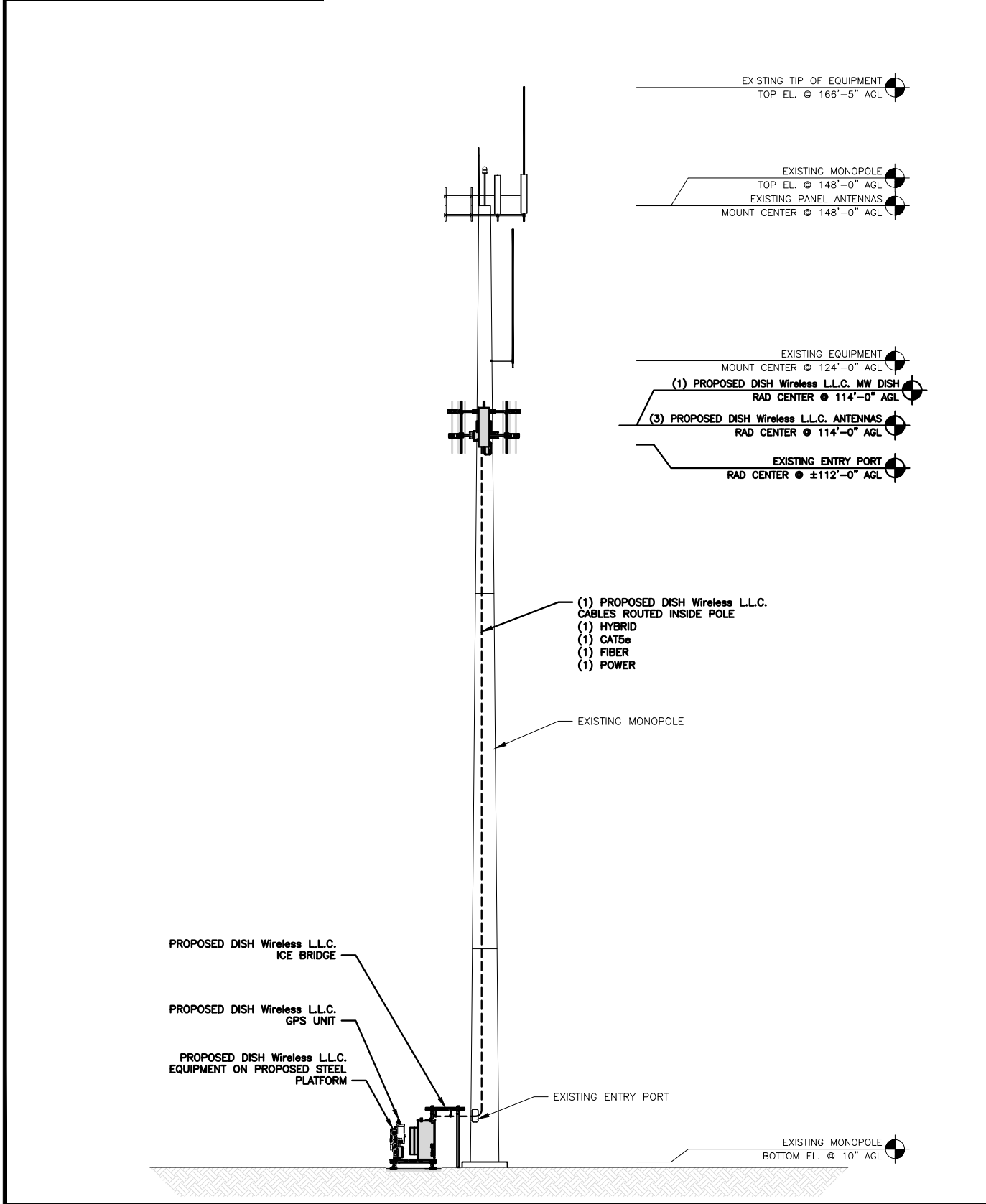
DISH Wireless L.L.C. TEMPLATE VERSION 47 - 12/17/2021

Page 46 of 63

- NOTES
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

2. ANTENNA AND MW DISH SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS

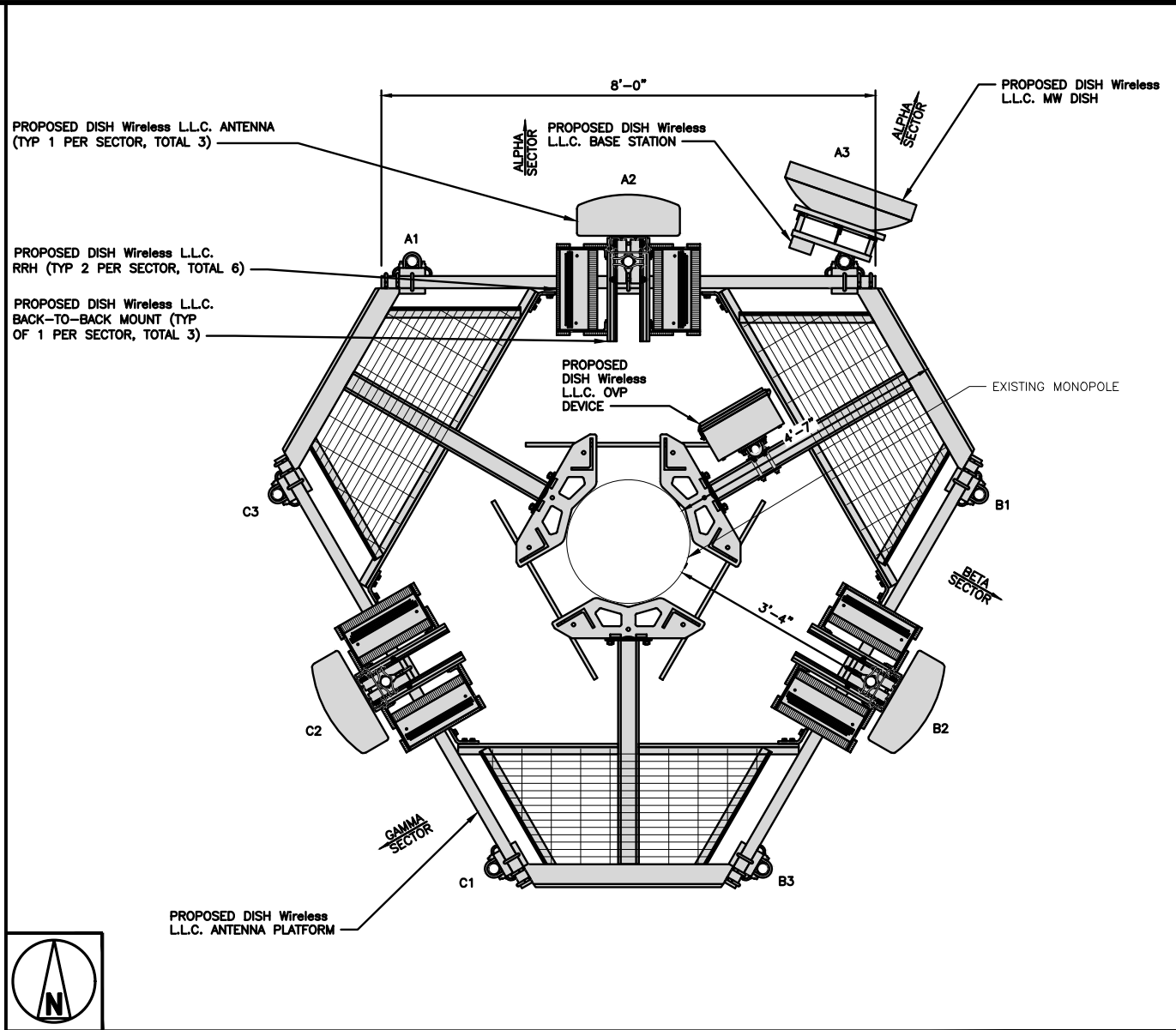
3. EXISTING EQUIPMENT AND FENCE OMITTED FOR CLARITY.



PROPOSED WEST ELEVATION

12' 8' 4' 0 10' 20'
3/32"=1'-0"

1



ANTENNA LAYOUT

12" 6" 0 1' 2' 3'
3/4"=1'-0"

2

SECTOR POS.	ANTENNA					TRANSMISSION CABLE	RRH			OVP
	EXISTING OR PROPOSED	MANUFACTURER - MODEL NUMBER	TECH	AZIMUTH	RAD CENTER	FEED LINE TYPE AND LENGTH	MANUFACTURER - MODEL NUMBER	TECH	POS.	MANUFACTURER MODEL
A1	---	---	---	---	---	(1) HIGH-CAPACITY HYBRID CABLE (155'-0" LONG)	FUJITSU - TA08025-B604	5G	A2	RAYCAP RDIC-9181-PF-48
A2	PROPOSED	JMA - MX08FRO665-21	5G	TBD	114'-0"		FUJITSU - TA08025-B605	5G	A2	
A3	PROPOSED	ANDREW - VHLP2-18	---	19°	114'-0"	(1) CAT5e CABLE (1) POWER CABLE (1) FIBER CABLE (164'-0" LONG)	---	---	---	---
B1	---	---	---	---	---	SHARED W/ALPHA	FUJITSU - TA08025-B604	5G	B2	SHARED W/ALPHA
B2	PROPOSED	JMA - MX08FRO665-21	5G	TBD	114'-0"		FUJITSU - TA08025-B605	5G	B2	
B3	---	---	---	---	---		---	---	---	
C1	---	---	---	---	---	SHARED W/ALPHA	FUJITSU - TA08025-B604	5G	C2	SHARED W/ALPHA
C2	PROPOSED	JMA - MX08FRO665-21	5G	TBD	114'-0"		FUJITSU - TA08025-B605	5G	C2	
C3	---	---	---	---	---		---	---	---	

- NOTES
1. CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS.

2. ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.

ANTENNA SCHEDULE

NO SCALE

3

dish
wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

Kimley»Horn

421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601

AVERY VERNON FANN
REGISTERED ENGINEER
AGRICULTURE
BEAVERBROOK7E497...
No. 118581
STATE OF TENNESSEE

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.

DRAWN BY: GJV

CHECKED BY: MCK

APPROVED BY: ---

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
A	01/17/2022	ISSUED FOR REVIEW
0	02/01/2022	ISSUED FOR CONSTRUCTION
1	06/23/2022	REVISED PER CLIENT
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3	01/04/2023	REVISED PER CLIENT

A&E PROJECT NUMBER

KHCL-19375

DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE

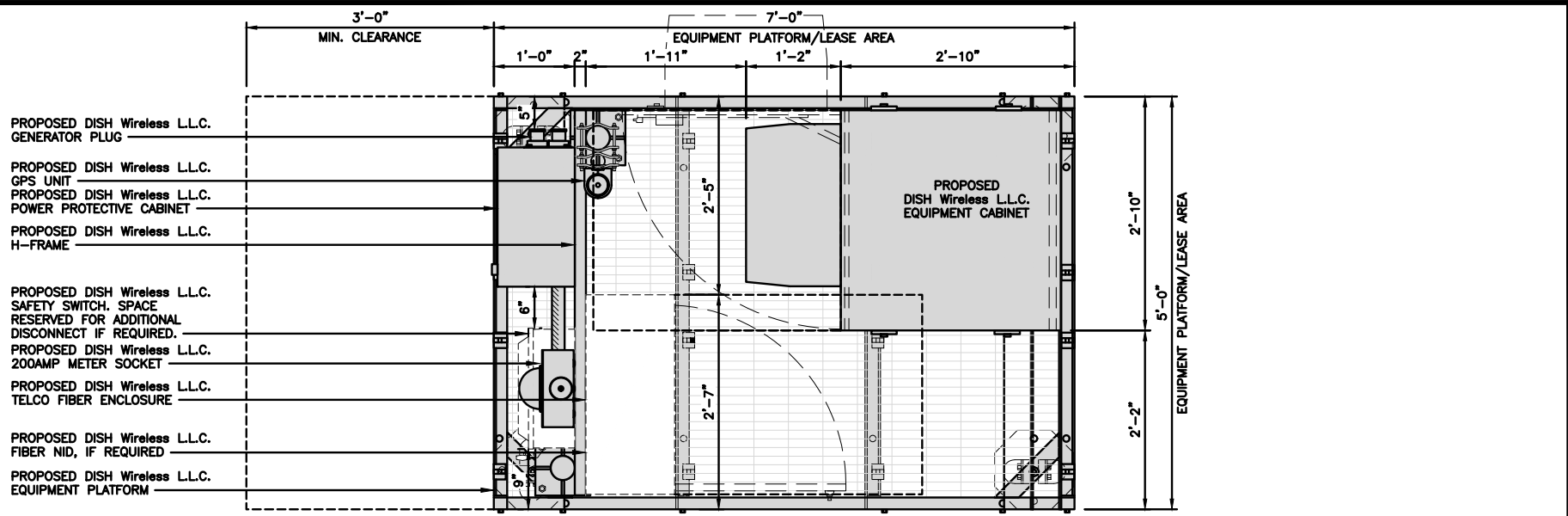
ELEVATION, ANTENNA
LAYOUT AND SCHEDULE

SHEET NUMBER

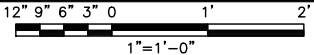
A-2

DISH Wireless L.L.C. TEMPLATE VERSION 47 - 12/17/2021

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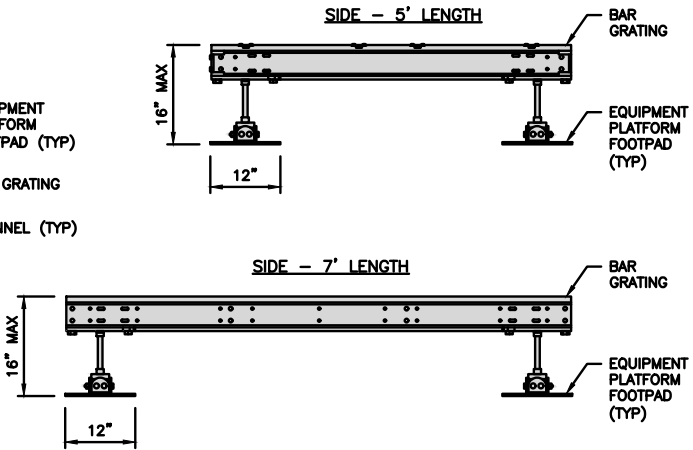
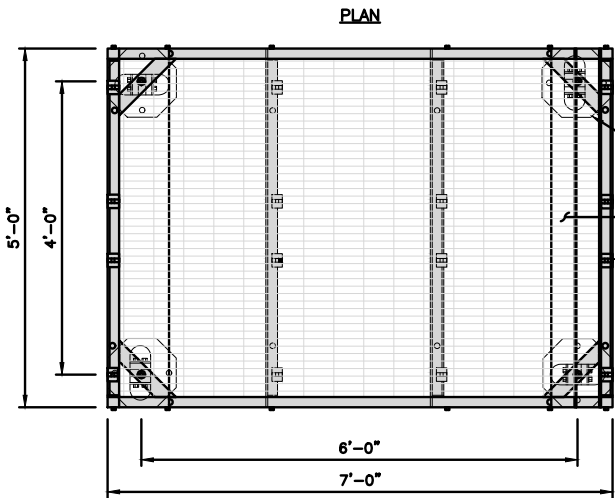
PLATFORM EQUIPMENT PLAN



1

COMMSCOPE MTC4045LP 5X7 PLATFORM	
DIMENSIONS (HxWxD)	16"x84"x60"
TOTAL WEIGHT	423 LBS

NOTE:
1. GC TO PROVIDE EXTENDED THREAD FOR PLATFORM IF REQUIRED HEIGHT EXCEEDS 16"
2. PLATFORM TO BE LEVEL WITHIN 1"

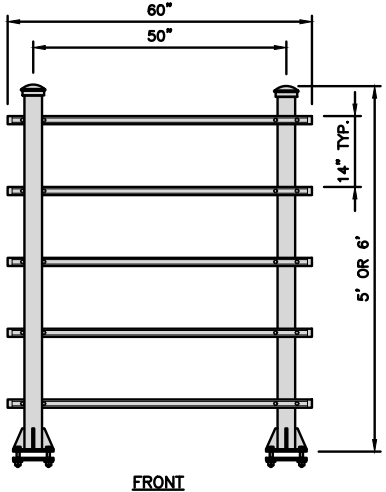
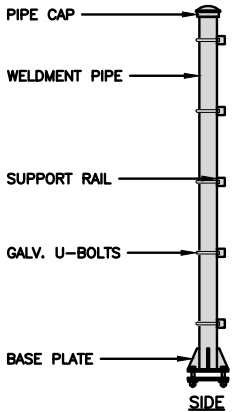


PLATFORM DETAIL

NO SCALE

2

COMMSCOPE MTC4045HFLD H-FRAME	
UNISTRUT/SUPPORT RAILS QTY	5
WEIGHT	59.74 lbs



H-FRAME DETAIL

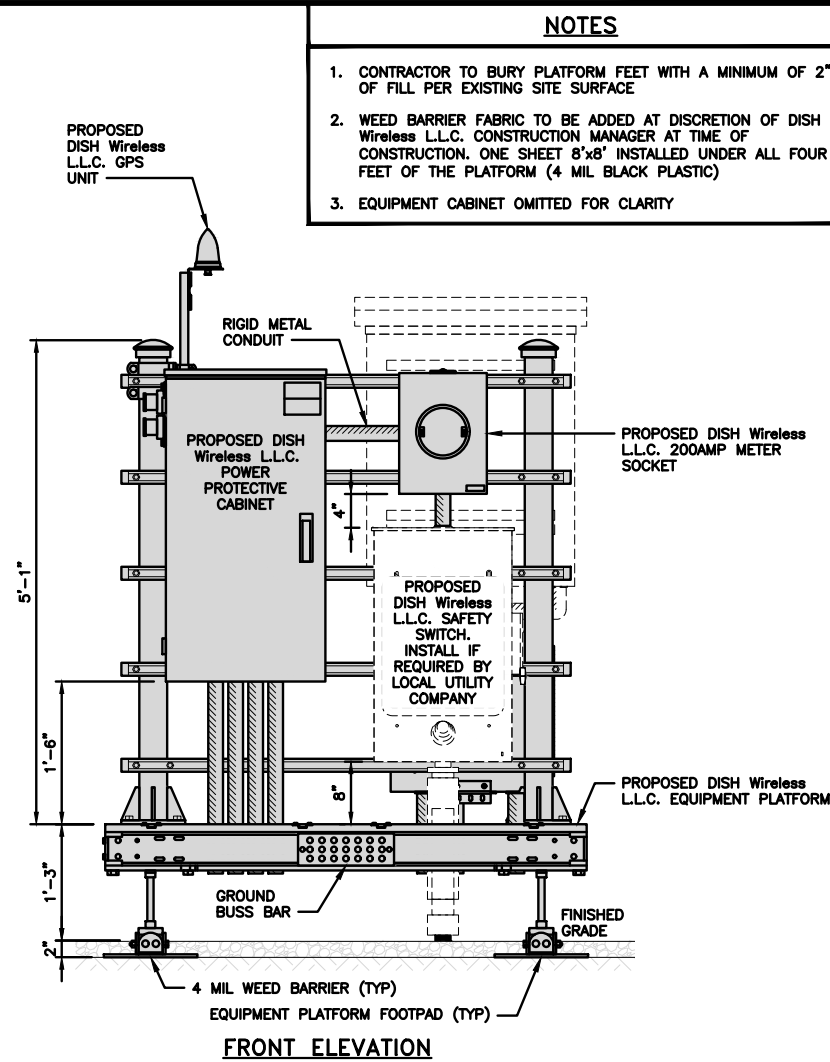
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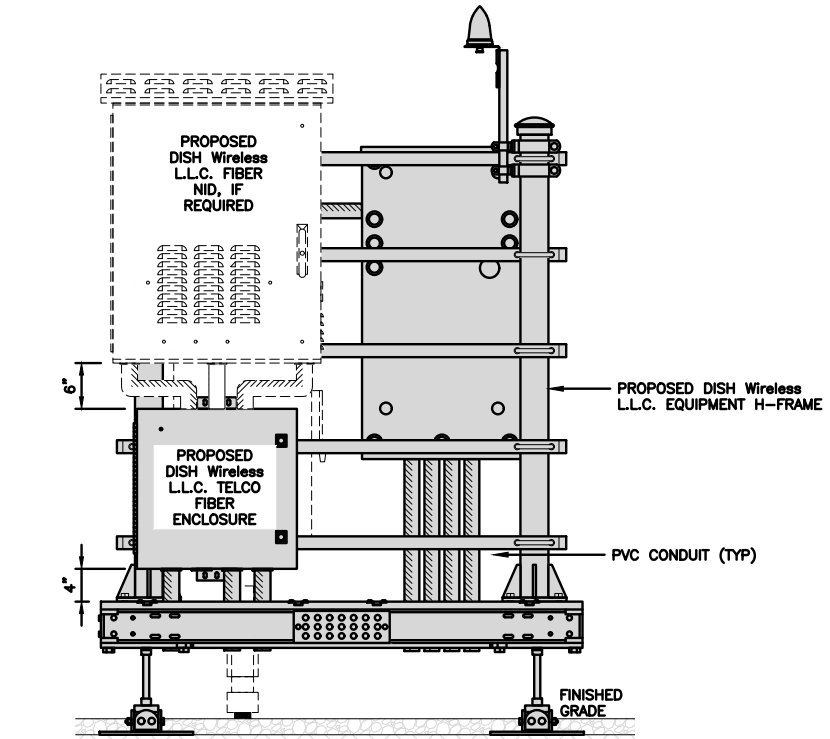
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NO SCALE

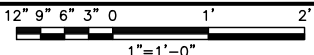
4



FRONT ELEVATION



BACK ELEVATION



5

H-FRAME EQUIPMENT ELEVATION

NOTES

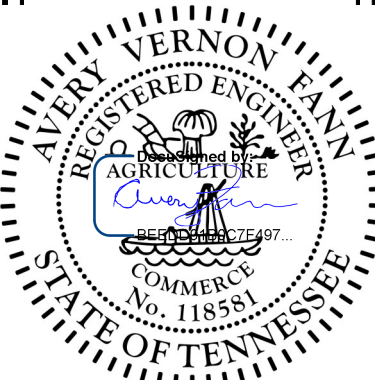
1. CONTRACTOR TO BURY PLATFORM FEET WITH A MINIMUM OF 2" OF FILL PER EXISTING SITE SURFACE
2. WEED BARRIER FABRIC TO BE ADDED AT DISCRETION OF DISH Wireless L.L.C. CONSTRUCTION MANAGER AT TIME OF CONSTRUCTION. ONE SHEET 8'x8' INSTALLED UNDER ALL FOUR FEET OF THE PLATFORM (4 MIL BLACK PLASTIC)
3. EQUIPMENT CABINET OMITTED FOR CLARITY

dish
wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

Kimley»Horn

421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601



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DRAWN BY: CHECKED BY: APPROVED BY:

GJV MCK ---

RFDS REV #: ---

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A&E PROJECT NUMBER

KHCL-19375

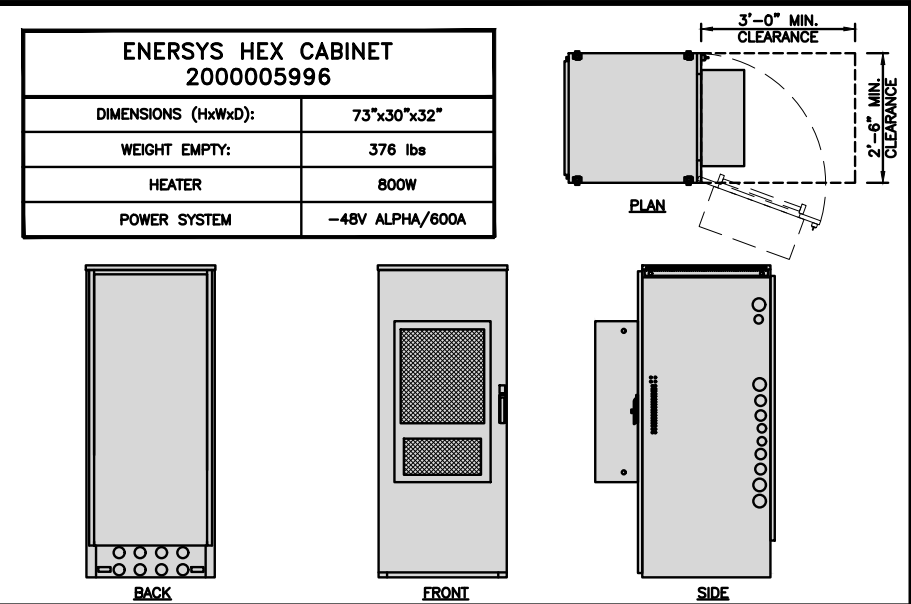
DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE
EQUIPMENT PLATFORM AND
H-FRAME DETAILS

SHEET NUMBER

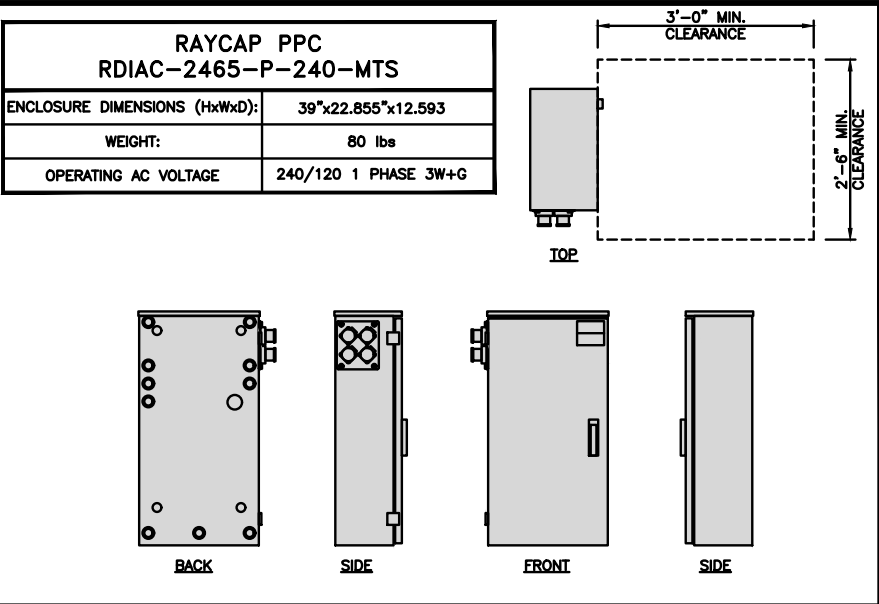
A-3



CABINET DETAIL

NO SCALE

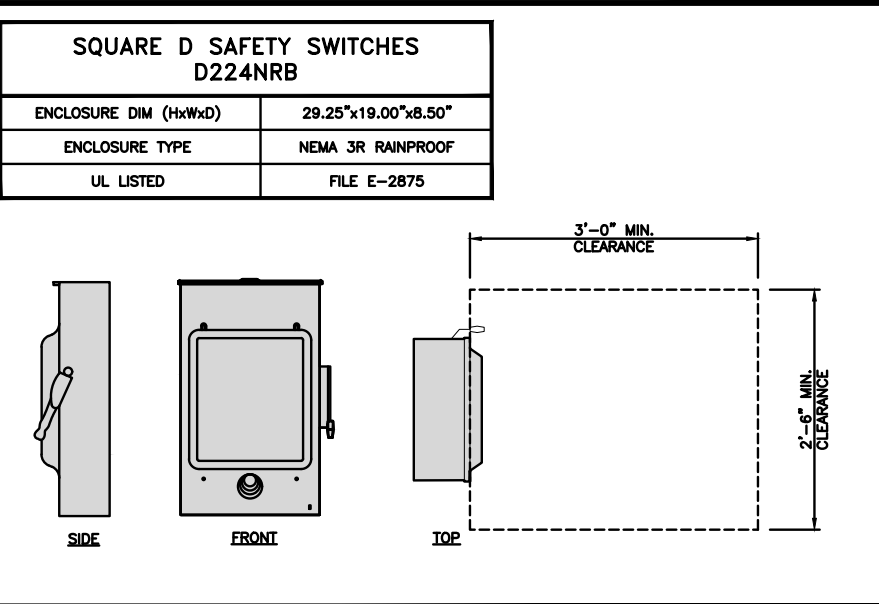
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POWER PROTECTION CABINET (PPC) DETAIL

NO SCALE

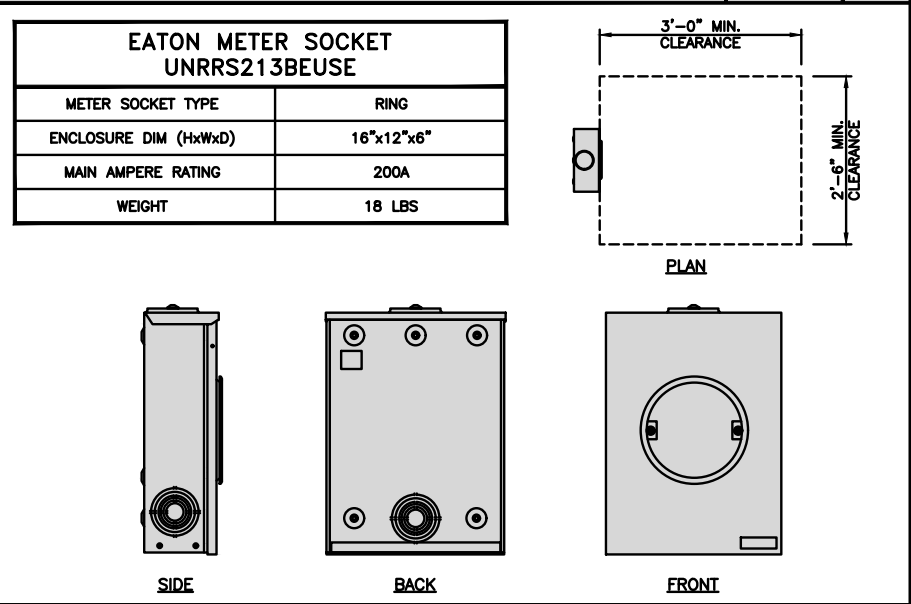
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SAFETY SWITCH DETAIL

NO SCALE

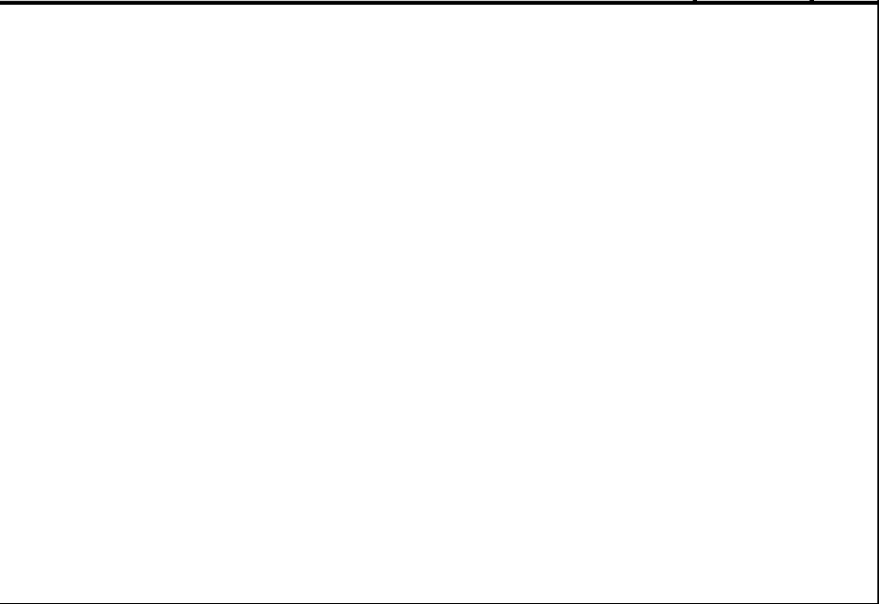
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METER SOCKET DETAIL

NO SCALE

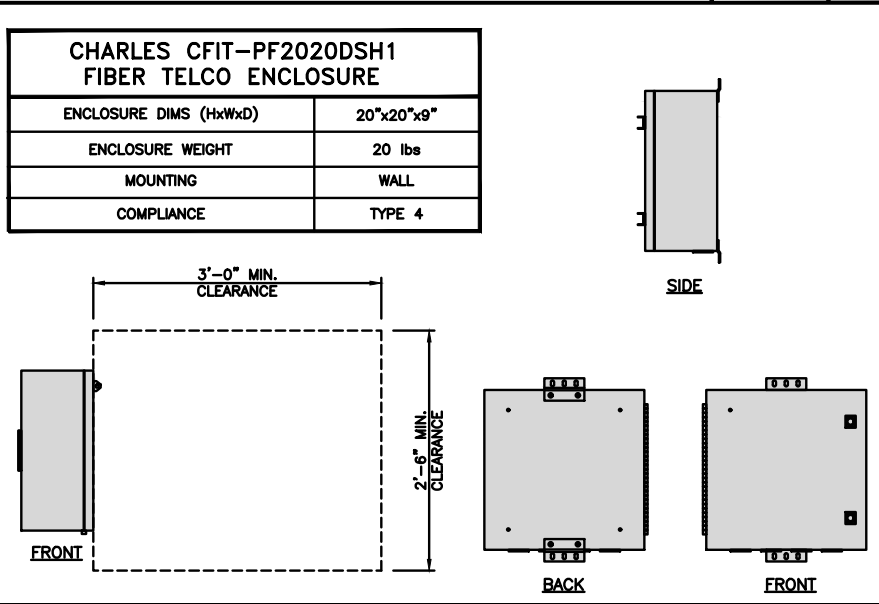
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NOT USED

NO SCALE

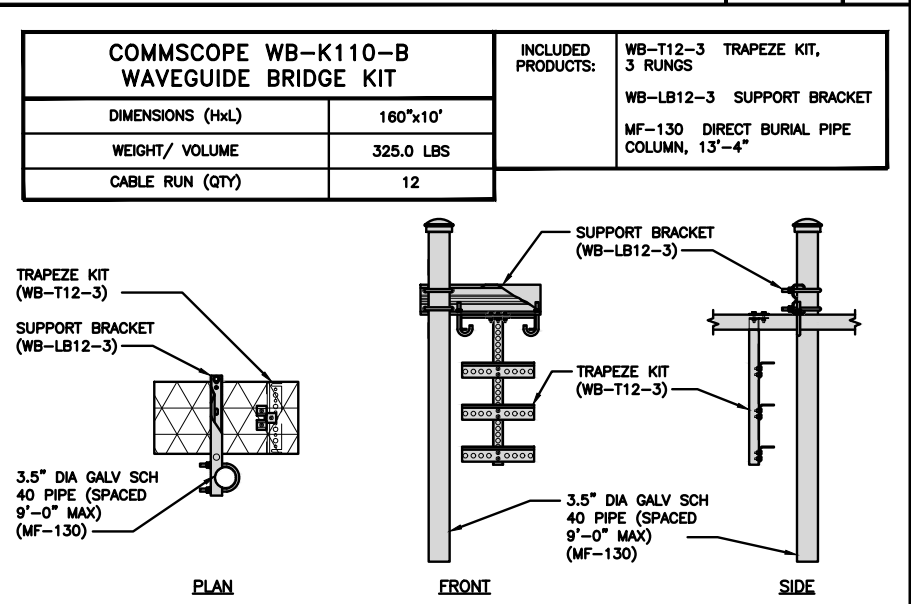
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FIBER TELCO ENCLOSURE DETAIL

NO SCALE

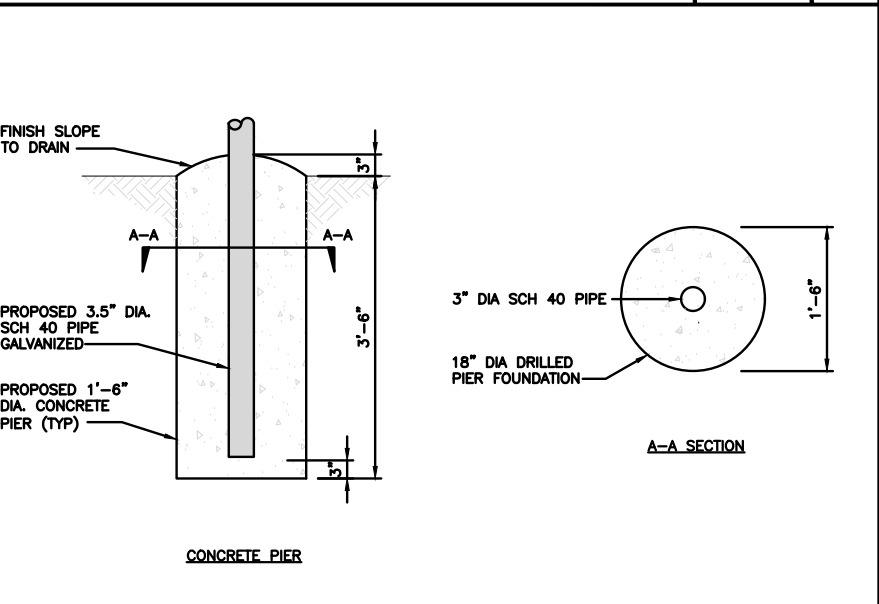
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ICE BRIDGE DETAIL

NO SCALE

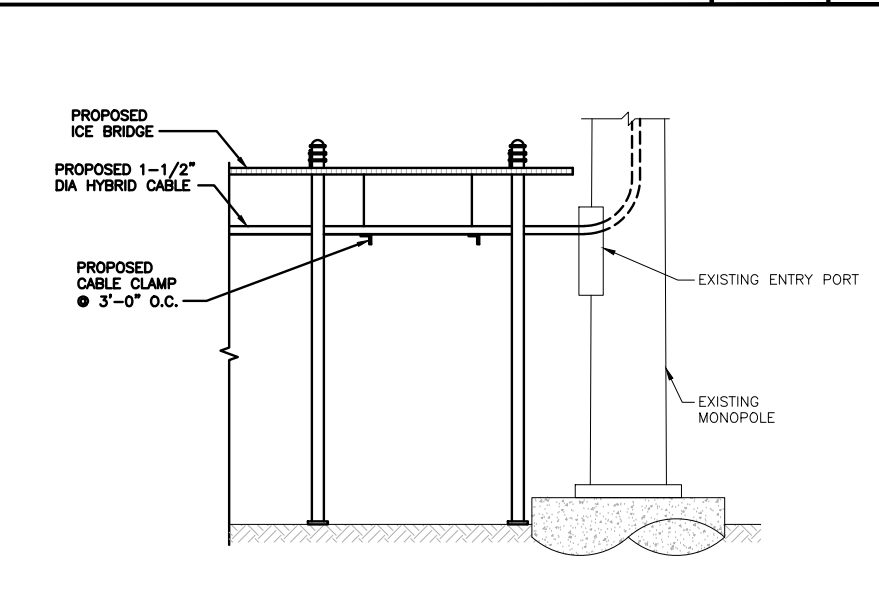
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TYPICAL ICE BRIDGE CONCRETE PIER DETAIL

NO SCALE

8



HYBRID CABLE RUN

NO SCALE

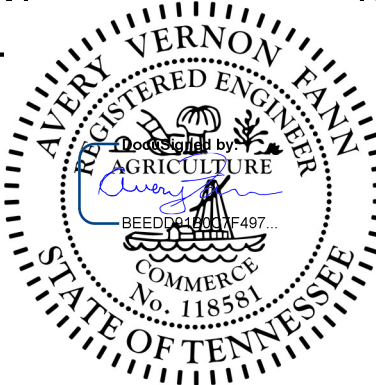
9

dish
wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

Kimley»Horn

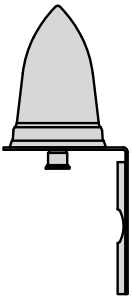
421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601



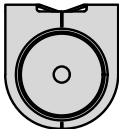
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GJV	MCK	---
RFDS REV #:		

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KHCLC-19375		
DISH Wireless L.L.C. PROJECT INFORMATION		
KNTYS00277A 3117A DAYTON BLVD. RED BANK, TN 37415		
SHEET TITLE		
EQUIPMENT DETAILS		
SHEET NUMBER		
A-4		

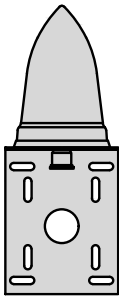
PCTEL GPSGL-TMG-SPI-40NCB	
DIMENSIONS (DIAxH) MM/INCH	81x184mm 3.2"x7.25"
WEIGHT W/ACCESSORIES	075 lbs
CONNECTOR	N-FEMALE
FREQUENCY RANGE	1590 ± 30MHz



BACK



TOP

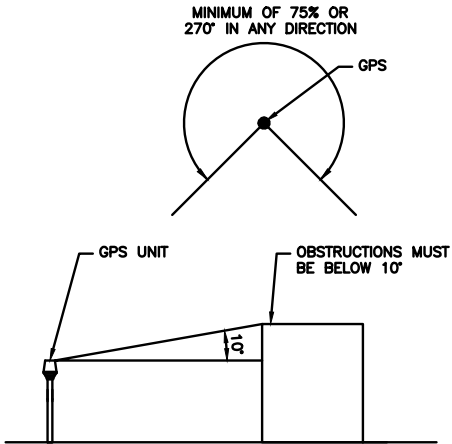


SIDE

GPS DETAIL

NO SCALE

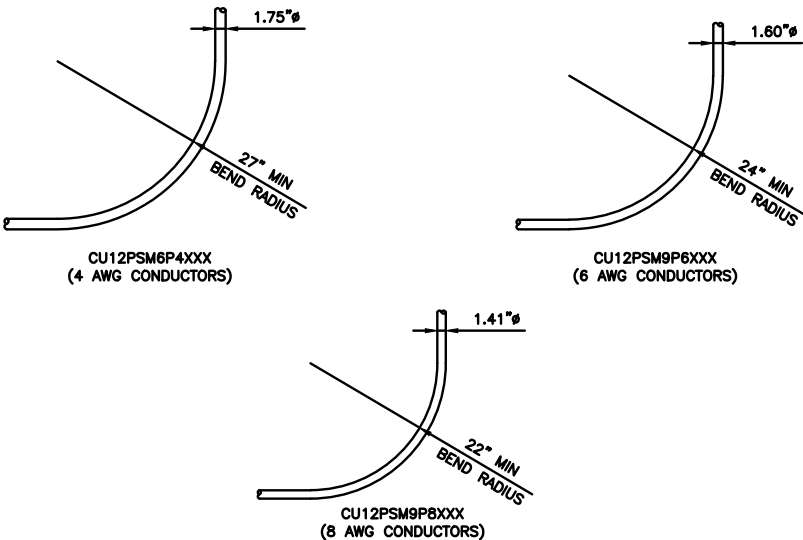
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GPS MINIMUM SKY VIEW REQUIREMENTS

NO SCALE

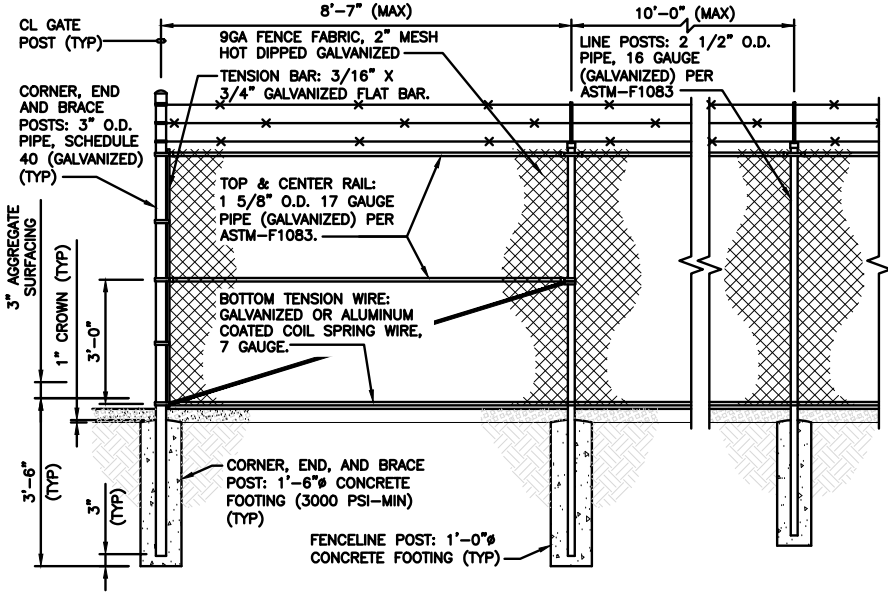
2



CABLES UNLIMITED HYBRID CABLE
MINIMUM BEND RADIUS

NO SCALE

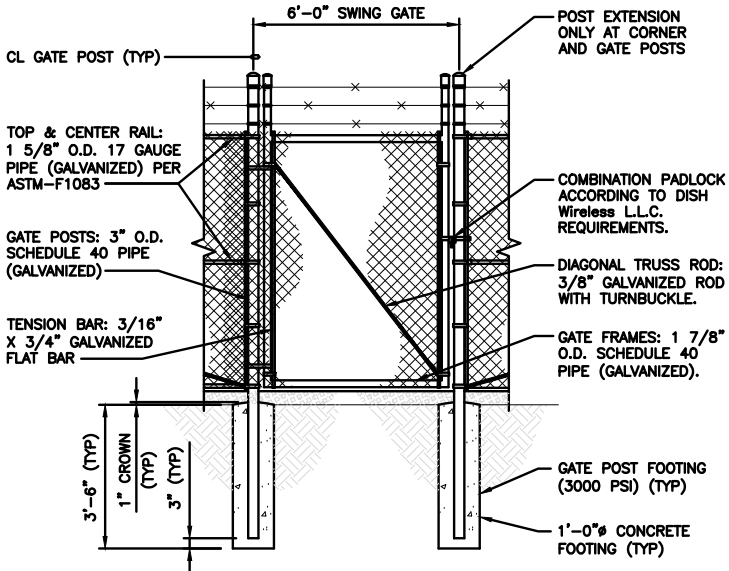
3



TYPICAL FENCE DETAIL

NO SCALE

4



TYPICAL MAN-GATE ELEVATION DETAIL

NO SCALE

5

NOT USED

NO SCALE

6



IP-50C
Universal multicore microwave radio
for all deployment scenarios

SPECIFICATIONS

RADIO

- Supported frequency bands: 6-42GHz
- Supported channel spacing: 3.5-224MHz
- ACM steps: 12, BPSK-4096QAM
- 4x4 LoS MIMO
- Advanced Frequency Reuse
- Advanced Space Diversity
- Remote 2nd carrier activation

INTERFACES

- 1/10GbE (electric)
- 10GbE (SFP+)
- 1/2.5GbE (SFP)
- 10GbE extension port for advanced features or traffic interface (SFP+)

CAPACITY

- Networking capacity: 16Gbps
- System capacity: 8Gbps (in 4+0 configuration)
- Layer-1 carrier bonding: Up to 4+0 in an all-outdoor configuration using a single cable

NETWORKING

Integrated Carrier Ethernet switching capabilities, MEF Carrier Ethernet 2.0 compliant | up to 30% more capacity using header deduplication | carrier-grade service resiliency (G.8032, MSTP) | SyncE and 1588 synchronization | ITU-T Y1731 fault and performance management (MEF 35) | SDN | layer 3 (using IP-50FX)

SECURITY

AES-256 radio encryption | secured protocols and management interfaces (HTTPS, TLS, SSH, SNMPv3) | secured architecture and software design | advanced authentication and identification management

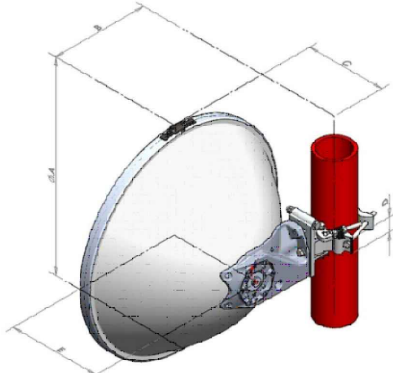
BASE STATION DETAIL

NO SCALE

7

VHLP2-18/C

Antenna Dimensions and Mounting Information



Dimension in Inches (mm)					
Antenna size, ft (m)	A	B	C	D	E
2 (0.6)	26 (660)	11.9 (307)	9.9 (252)	1.8 (45)	11.4 (289)

MW DISH DETAIL

NO SCALE

8

NOT USED

NO SCALE

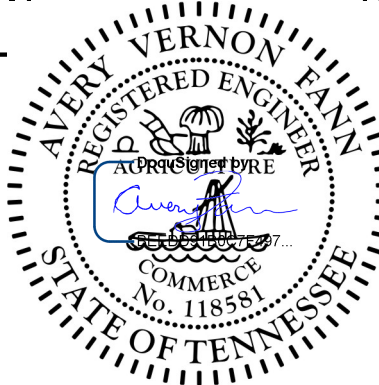
9

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MCK

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A&E PROJECT NUMBER

KHCL-19375

DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER

A-5

FUJITSU TRIPLE BAND
TA08025-B605

DIMENSIONS (HxWxD)	14.9"x15.7"x9"
WEIGHT	74.95 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V

PLAN

BACK

SIDE

FRONT

RRH DETAIL

NO SCALE

1

FUJITSU DUAL BAND
TA08025-B604

DIMENSIONS (HxWxD)	14.9"x15.7"x7.8"
WEIGHT	63.9 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V

PLAN

BACK

SIDE

FRONT

RRH DETAIL

NO SCALE

2

SABRE DOUBLE Z-BRACKET
C10123155

DIMENSIONS (HxWxD) (1 BRACKET)	5"x20"x1-13/16"
WEIGHT (FULL ASSEMBLY)	35.79 lbs
PACKAGE QUANTITY	4

#	DESCRIPTION
1	PLATE, CHANNEL BRACKET
2	RRH Z BRACKET, 3/16"
3	THREADED ROD ASSEMBLY 1/2"x12"

NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT

1

2

3

RRH MOUNT DETAIL

NO SCALE

3

JMA WIRELESS
MX08FRO665-21 ANTENNA

DIMENSIONS (HxWxD)	72.0"x20.0"x8.0"
TOTAL WEIGHT	82.5 LB
RF PORTS, CONNECTOR TYPE	8 x 4.3-10 FEMALE

PLAN

BACK

SIDE

FRONT

ANTENNA DETAIL

NO SCALE

4

JMA ANTENNA MOUNTING BRACKET
#91900318

TOTAL WEIGHT (WITH BRACKETS)	18 lbs (8.18 Kg)
POLE DIAMETER RANGE	2.5 TO 4.5 INCHES

NOTE:
KIT #91900318: TOP AND BOTTOM BRACKETS
FOR 4-,6-, AND 8-FOOT ANTENNAS
ANTENNA BRACKET NOT PART OF KIT

MOUNTING PIPE

ANTENNA BRACKET

TOP MOUNTING BRACKET (TYP)

ANTENNA BRACKET

CENTER MOUNTING BRACKET (TYP)

ANTENNA BRACKET DETAIL

NO SCALE

6

RAYCAP RDIDC-9181-PF-48
DC SURGE PROTECTION (OVP)

DIMENSIONS (HxWxD)	18.98"x14.39"x8.15"
WEIGHT	21.82 LBS

PLAN

SIDE

BACK

FRONT

SURGE SUPPRESSION DETAIL (OVP)

NO SCALE

7

COMMSCOPE XP-2040
CROSSOVER PLATE

DIMENSIONS (HxW)	10"x12"
WEIGHT	11 lbs

NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT

PLAN PLATE

SIDE PLATE

PLAN U-BOLT

SIDE U-BOLT

RRH/OVP MOUNT DETAIL

NO SCALE

8

COMMSCOPE
MC-PK8-DSH

FACE WIDTH	96"
WEIGHT	1373.08 lbs

NOTE: 15" TO 38" O.D.

HORIZONTAL PIPE

ANTENNA PIPE

FACE PIPE

40"

96"

ANTENNA PLATFORM DETAIL

NO SCALE

9

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LITTLETON, CO 80120

Kimley»Horn

421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601

SEAL

AVERY VERNON FANN
REGISTERED ENGINEER
AGRICULTURE
COMMERCIAL
No. 118581
STATE OF TENNESSEE

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CHECKED BY: MCK

APPROVED BY: ---

RFDS REV #:

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KHCL-19375

DISH Wireless L.L.C.
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KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE

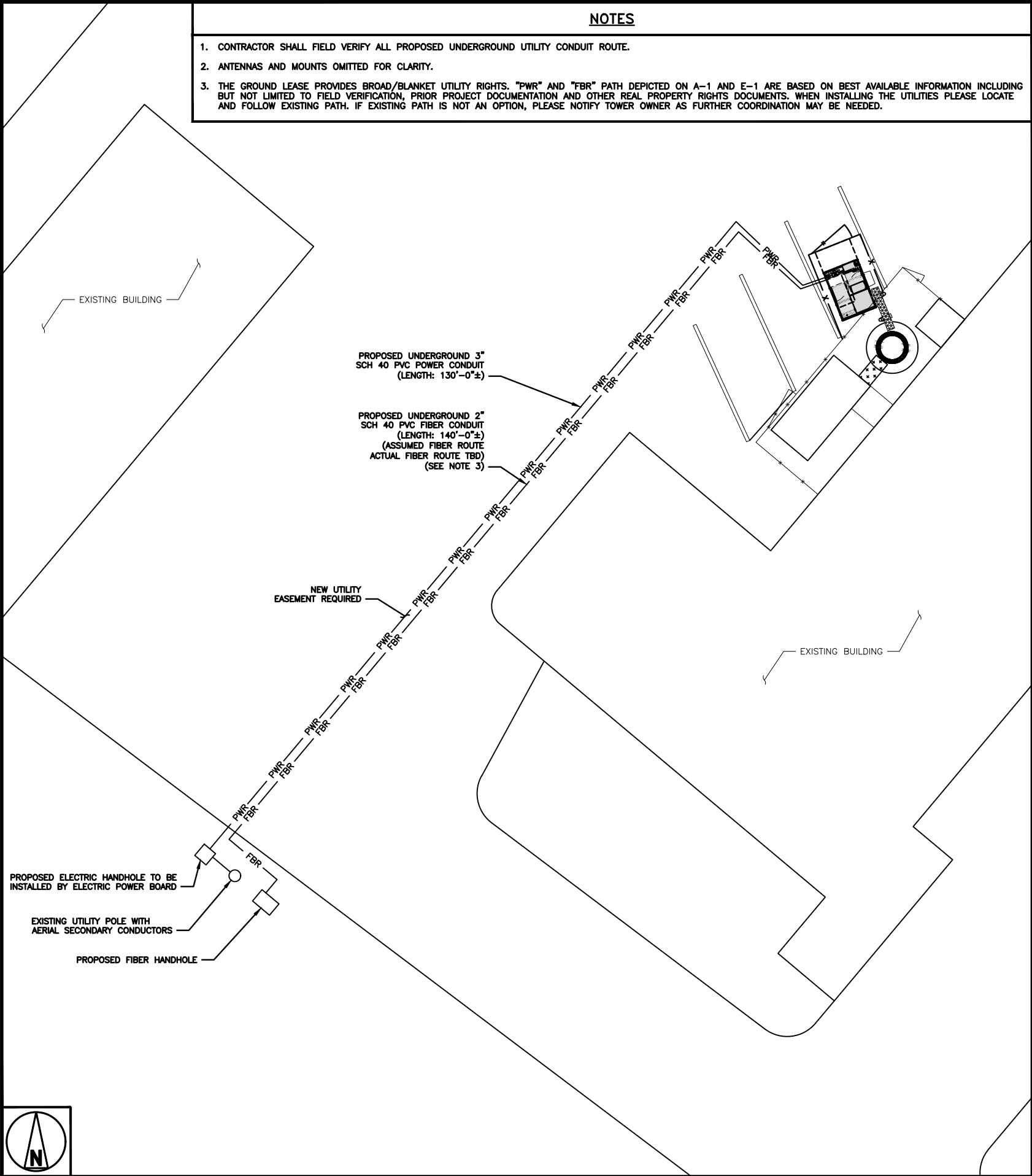
EQUIPMENT DETAILS

SHEET NUMBER

A-6

DISH Wireless L.L.C. TEMPLATE VERSION 47 - 12/17/2021

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DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING +24V AND -48V CONDUCTORS. RED MARKINGS SHALL IDENTIFY +24V AND BLUE MARKINGS SHALL IDENTIFY -48V.

1. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.

2. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL STATE AND LOCAL CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC STANDARDS.

3. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO CONSTRUCTION.

4. CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION CONFLICTS. VERIFY WITH THE MECHANICAL EQUIPMENT CONTRACTOR AND COMPLY AS REQUIRED.

5. CONTRACTOR SHALL PROVIDE ALL BREAKERS, CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETE SYSTEM.

6. CONTRACTOR SHALL PROVIDE PULL BOXES AND JUNCTION BOXES AS REQUIRED BY THE NEC ARTICLE 314.

7. CONTRACTOR SHALL PROVIDE ALL STRAIN RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

8. ALL DISCONNECTS AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM.

9. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC 250. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULL BOXES, AND ALL DISCONNECT SWITCHES, AND EQUIPMENT CABINETS.

10. ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.

11. PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST-CONSTRUCTION EQUIPMENT.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR AS-BUILT PANEL SCHEDULE AND SITE DRAWINGS.

13. ALL TRENCHES IN COMPOUND TO BE HAND DUG

ELECTRICAL NOTES

NO SCALE

2

OVERALL UTILITY ROUTE PLAN

NO SCALE

3

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

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RALEIGH, NC 27601

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3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE
ELECTRICAL/FIBER ROUTE
PLAN AND NOTES

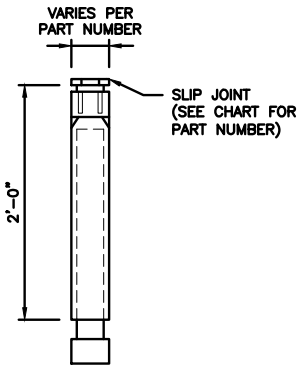
SHEET NUMBER

E-1

DISH Wireless L.L.C. TEMPLATE VERSION 47 - 12/17/2021

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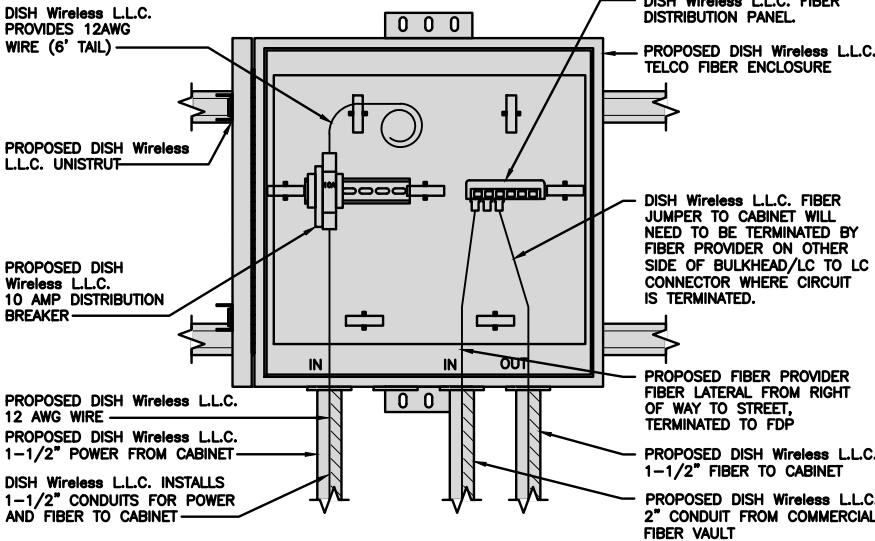
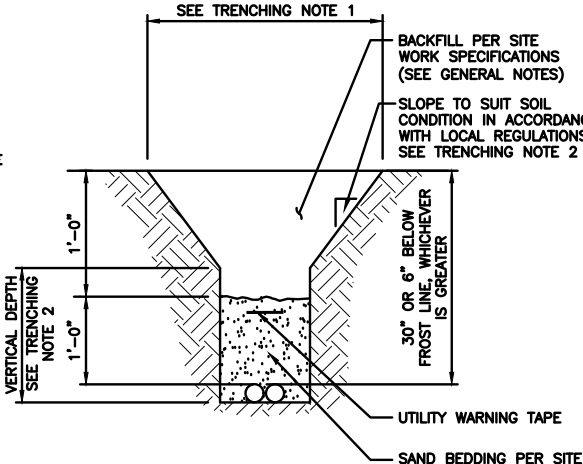
CARLON EXPANSION FITTINGS				
COUPLING END PART#	MALE TERMINAL ADAPTER END PART#	SIZE	STD CTN QTY.	TRAVEL LENGTH
E945D	E945DX	1/2"	20	4"
E945E	E945EX	3/4"	15	4"
E945F	E945FX	1"	10	4"
E945G	E945GX	1 1/4"	5	4"
E945H	E945HX	1 1/2"	5	4"
E945J	E945JX	2"	15	8"
E945K	E945KX	2 1/2"	10	8"
E945L	E945LX	3"	10	8"
E945M	E945MX	3 1/2"	5	8"
E945N	E945NX	4"	5	8"
E945P	E945PX	5"	1	8"
E945R	E945RX	6"	1	8"



NOTE: CONTRACTOR TO INSTALL EXPANSION FITTING SLIP JOINT AT METER CENTER CONDUIT TERMINATION, AS PER LOCAL UTILITY POLICY, ORDINANCE AND/OR SPECIFIED REQUIREMENT.

TRENCHING NOTES

- CONTRACTOR SHALL RESTORE THE TRENCH TO ITS ORIGINAL CONDITIONS BY EITHER SEEDING OR SODDING GRASS AREAS, OR REPLACING ASPHALT OR CONCRETE AREAS TO ITS ORIGINAL CROSS SECTION.
- TRENCHING SAFETY; INCLUDING, BUT NOT LIMITED TO SOIL CLASSIFICATION, SLOPING, AND SHORING, SHALL BE GOVERNED BY THE CURRENT OSHA TRENCHING AND EXCAVATION SAFETY STANDARDS.
- ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT NATIONAL ELECTRIC CODE (NEC) OR AS REQUIRED BY THE LOCAL JURISDICTION, WHICHEVER IS THE MOST STRINGENT.



EXPANSION JOINT DETAIL

NO SCALE

1

TYPICAL UNDERGROUND TRENCH DETAIL

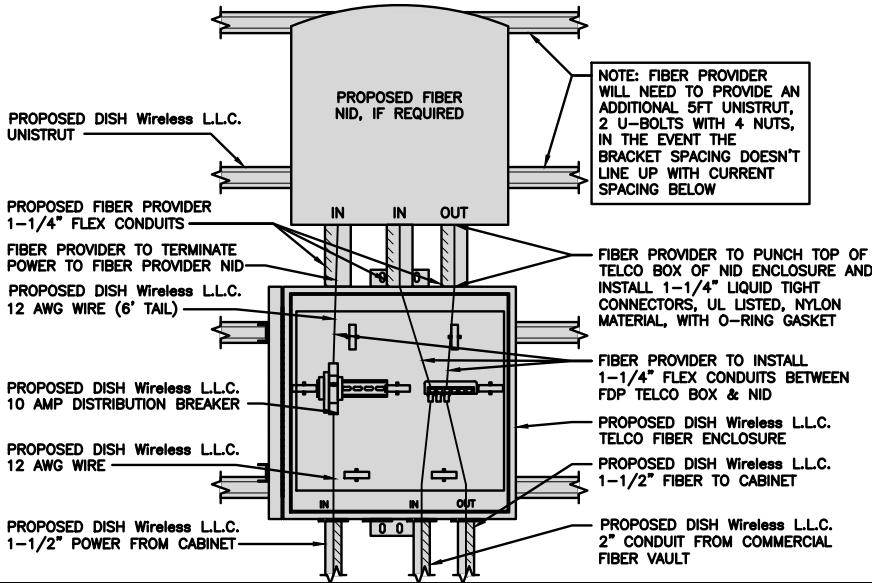
NO SCALE

2

DARK TELCO BOX – INTERIOR WIRING LAYOUT

NO SCALE

3



LIT TELCO BOX – INTERIOR WIRING LAYOUT (OPTIONAL)

NO SCALE

4

NOT USED

NO SCALE

5

NOT USED

NO SCALE

6

NOT USED

NO SCALE

7

NOT USED

NO SCALE

8

NOT USED

NO SCALE

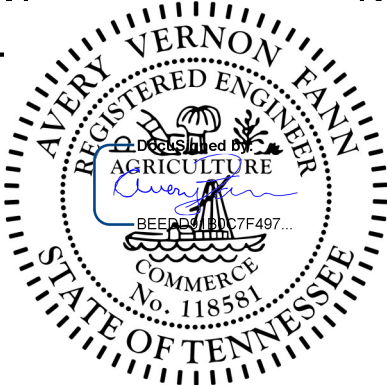
9



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



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RALEIGH, NC 27601



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A&E PROJECT NUMBER
KHCL-19375

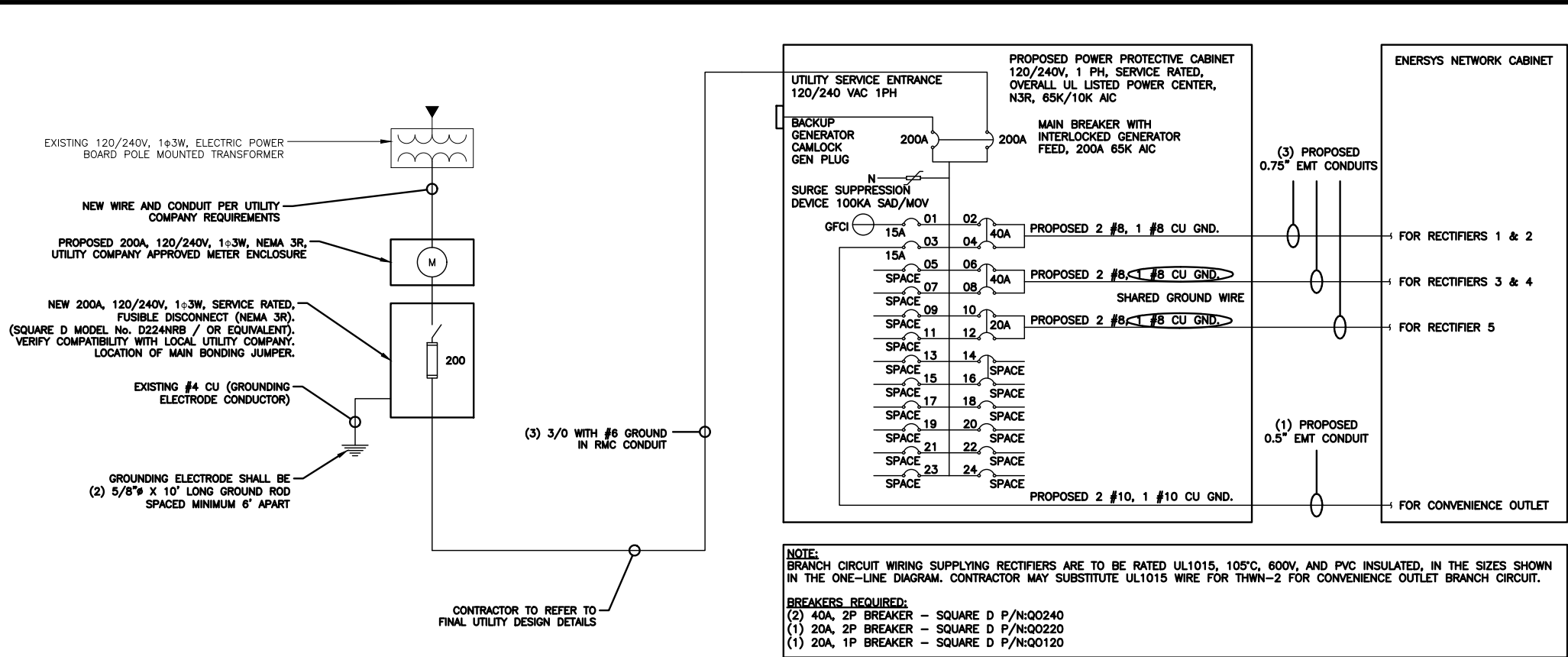
DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE
ELECTRICAL
DETAILS

SHEET NUMBER

E-2



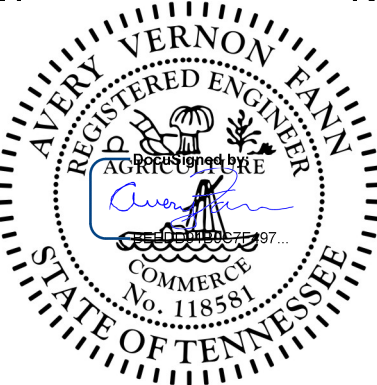
NOTES
THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE AIC RATINGS FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.
THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUIT AND FEEDERS COMPLY WITH THE NEC (LISTED ON T-1) ARTICLE 210.19(A)(1) FPN NO. 4.
CONDUIT SIZING: AT 40% FILL PER NEC CHAPTER 9, TABLE 4, ARTICLE 358. 0.5" CONDUIT - 0.122 SQ. IN AREA 0.75" CONDUIT - 0.213 SQ. IN AREA 2.0" CONDUIT - 1.316 SQ. IN AREA 3.0" CONDUIT - 2.907 SQ. IN AREA
CABINET CONVENIENCE OUTLET CONDUCTORS (1 CONDUIT): USING THWN-2, CU. #10 - 0.0211 SQ. IN X 2 = 0.0422 SQ. IN #10 - 0.0211 SQ. IN X 1 = 0.0211 SQ. IN <GROUND TOTAL = 0.0633 SQ. IN
0.5" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (3) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.
RECTIFIER CONDUCTORS (3 CONDUITS): USING UL1015, CU. #8 - 0.0552 SQ. IN X 2 = 0.1103 SQ. IN #8 - 0.0131 SQ. IN X 1 = 0.0131 SQ. IN <BARE GROUND TOTAL = 0.1234 SQ. IN
0.75" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (3) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.
PPC FEED CONDUCTORS (1 CONDUIT): USING THWN, CU. 3/0 - 0.2679 SQ. IN X 3 = 0.8037 SQ. IN #6 - 0.0507 SQ. IN X 1 = 0.0507 SQ. IN <GROUND TOTAL = 0.8544 SQ. IN
3.0" SCH 40 PVC CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (4) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.



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LITTLETON, CO 80120



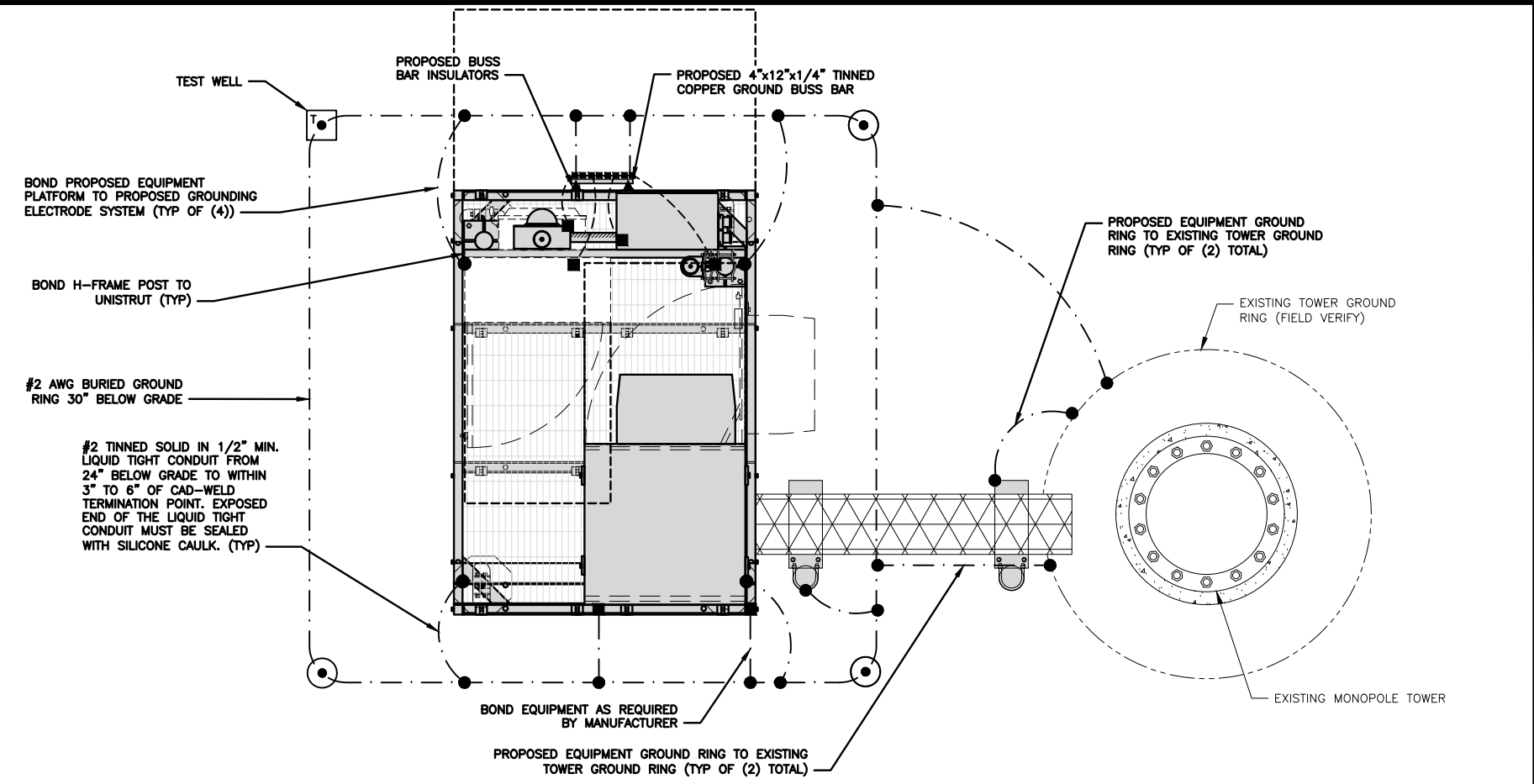
421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601



PPC ONE-LINE DIAGRAM										NO SCALE		1																																																																																																																																																																																																																																											
<table><tr><th colspan="13">PROPOSED ENERSYS PANEL SCHEDULE</th></tr><tr><th rowspan="2">LOAD SERVED</th><th colspan="2">VOLT AMPS (WATTS)</th><th rowspan="2">TRIP</th><th rowspan="2">CKT #</th><th rowspan="2">PHASE</th><th rowspan="2">CKT #</th><th rowspan="2">TRIP</th><th colspan="2">VOLT AMPS (WATTS)</th><th rowspan="2">LOAD SERVED</th></tr><tr><th>L1</th><th>L2</th><th>L1</th><th>L2</th></tr><tr><td>PPC GFCI OUTLET</td><td>180</td><td></td><td>15A</td><td>1</td><td>A</td><td>2</td><td>40A</td><td>3840</td><td></td><td>ENERSYS ALPHA CORDEX RECTIFIERS 1 & 2</td></tr><tr><td>ENERSYS GFCI OUTLET</td><td></td><td>180</td><td>15A</td><td>3</td><td>B</td><td>4</td><td></td><td>3840</td><td>3840</td><td></td></tr><tr><td>-SPACE-</td><td></td><td></td><td></td><td>5</td><td>A</td><td>6</td><td>40A</td><td>3840</td><td></td><td>ENERSYS ALPHA CORDEX RECTIFIER 3 & 4</td></tr><tr><td>-SPACE-</td><td></td><td></td><td></td><td>7</td><td>B</td><td>8</td><td></td><td></td><td>3840</td><td></td></tr><tr><td>-SPACE-</td><td></td><td></td><td></td><td>9</td><td>A</td><td>10</td><td>20A</td><td>1920</td><td></td><td>ENERSYS ALPHA CORDEX RECTIFIER 5</td></tr><tr><td>-SPACE-</td><td></td><td></td><td></td><td>11</td><td>B</td><td>12</td><td></td><td></td><td>1920</td><td></td></tr><tr><td>-SPACE-</td><td></td><td></td><td></td><td>13</td><td>A</td><td>14</td><td></td><td></td><td></td><td>-SPACE-</td></tr><tr><td>-SPACE-</td><td></td><td></td><td></td><td>15</td><td>B</td><td>16</td><td></td><td></td><td></td><td>-SPACE-</td></tr><tr><td>-SPACE-</td><td></td><td></td><td></td><td>17</td><td>A</td><td>18</td><td></td><td></td><td></td><td>-SPACE-</td></tr><tr><td>-SPACE-</td><td></td><td></td><td></td><td>19</td><td>B</td><td>20</td><td></td><td></td><td></td><td>-SPACE-</td></tr><tr><td>-SPACE-</td><td></td><td></td><td></td><td>21</td><td>A</td><td>22</td><td></td><td></td><td></td><td>-SPACE-</td></tr><tr><td>-SPACE-</td><td></td><td></td><td></td><td>23</td><td>B</td><td>24</td><td></td><td></td><td></td><td>-SPACE-</td></tr><tr><td colspan="2">VOLTAGE AMPS</td><td>180</td><td>180</td><td colspan="4"></td><td>9500</td><td>9500</td><td colspan="2"></td></tr><tr><td colspan="2">200A MCB, 1φ, 24 SPACE, 120/240V</td><td colspan="2"></td><td>L1</td><td>L2</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2">MB RATING: 65,000 AIC</td><td colspan="2"></td><td>9680</td><td>9680</td><td colspan="2">VOLTAGE AMPS</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td>81</td><td>81</td><td colspan="2">AMPS</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2">81</td><td colspan="2">MAX AMPS</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2">102</td><td colspan="2">MAX 125%</td><td colspan="2"></td><td colspan="2"></td></tr></table>													PROPOSED ENERSYS PANEL SCHEDULE													LOAD SERVED	VOLT AMPS (WATTS)		TRIP	CKT #	PHASE	CKT #	TRIP	VOLT AMPS (WATTS)		LOAD SERVED	L1	L2	L1	L2	PPC GFCI OUTLET	180		15A	1	A	2	40A	3840		ENERSYS ALPHA CORDEX RECTIFIERS 1 & 2	ENERSYS GFCI OUTLET		180	15A	3	B	4		3840	3840		-SPACE-				5	A	6	40A	3840		ENERSYS ALPHA CORDEX RECTIFIER 3 & 4	-SPACE-				7	B	8			3840		-SPACE-				9	A	10	20A	1920		ENERSYS ALPHA CORDEX RECTIFIER 5	-SPACE-				11	B	12			1920		-SPACE-				13	A	14				-SPACE-	-SPACE-				15	B	16				-SPACE-	-SPACE-				17	A	18				-SPACE-	-SPACE-				19	B	20				-SPACE-	-SPACE-				21	A	22				-SPACE-	-SPACE-				23	B	24				-SPACE-	VOLTAGE AMPS		180	180					9500	9500			200A MCB, 1φ, 24 SPACE, 120/240V				L1	L2							MB RATING: 65,000 AIC				9680	9680	VOLTAGE AMPS										81	81	AMPS										81		MAX AMPS										102		MAX 125%								
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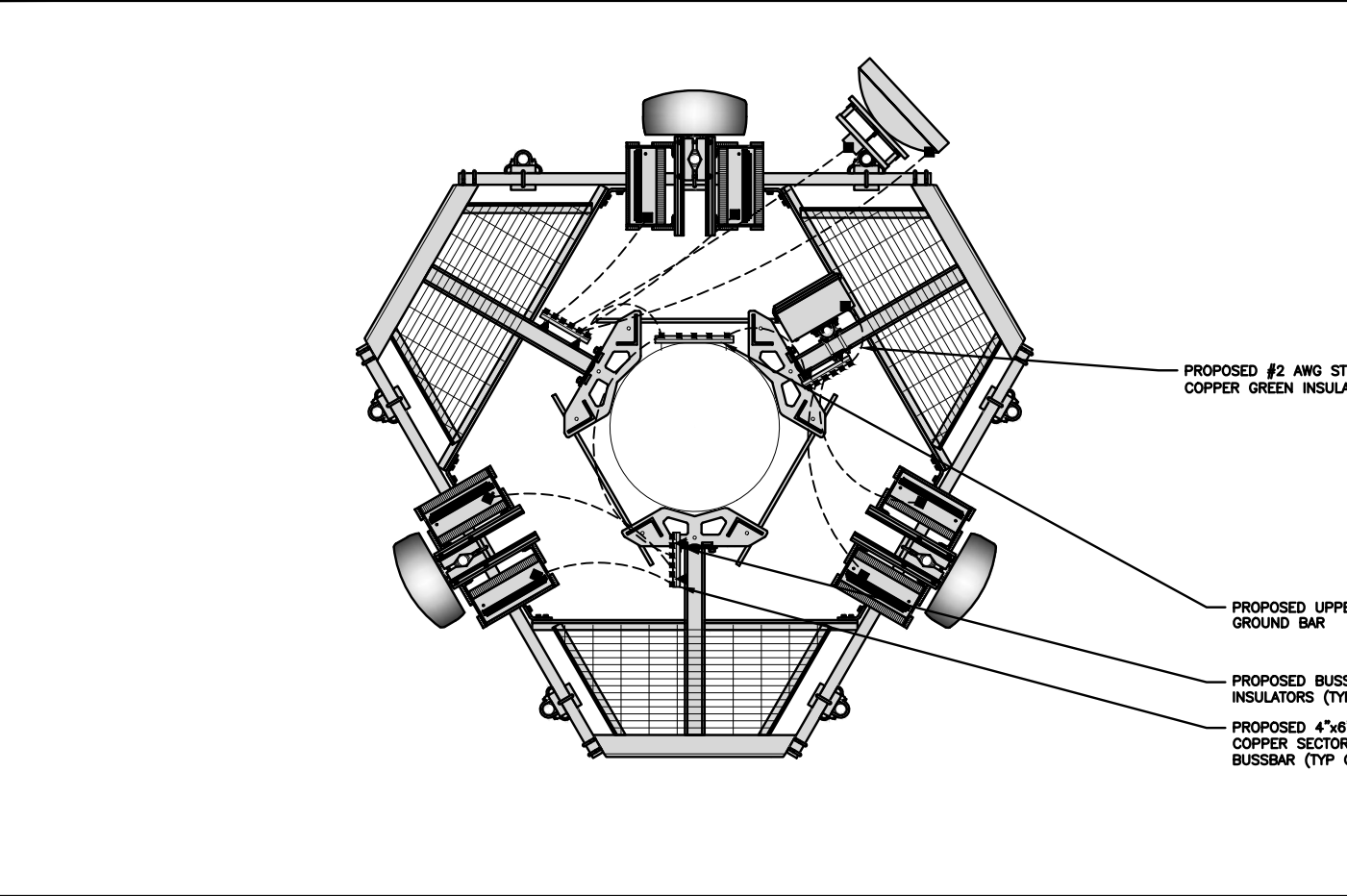
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GJV	MCK	---
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A&E PROJECT NUMBER		
KHCL-19375		
DISH Wireless L.L.C. PROJECT INFORMATION		
KNTYS00277A 3117A DAYTON BLVD. RED BANK, TN 37415		
SHEET TITLE		
ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE		
SHEET NUMBER		
E-3		



TYPICAL EQUIPMENT GROUNDING PLAN

NO SCALE 1



TYPICAL ANTENNA GROUNDING PLAN

NO SCALE 2

- NOTES
1. ANTENNAS AND OVP SHOWN ARE GENERIC AND NOT REFERENCING TO A SPECIFIC MANUFACTURER. THIS LAYOUT IS FOR REFERENCE ONLY

- EXOTHERMIC CONNECTION
MECHANICAL CONNECTION
GROUND BUS BAR
GROUND ROD
TEST GROUND ROD WITH INSPECTION SLEEVE
#6 AWG STRANDED & INSULATED
#2 AWG SOLID COPPER TINNED
BUSS BAR INSULATOR

GROUNDING LEGEND

1. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
2. CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH NEC SECTION 250 AND DISH Wireless L.L.C. GROUNDING AND BONDING REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
3. ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.

GROUNDING KEY NOTES

- A. EXTERIOR GROUND RING: #2 AWG SOLID COPPER, BURIED AT A DEPTH OF AT LEAST 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE AND APPROXIMATELY 24 INCHES FROM THE EXTERIOR WALL OR FOOTING.
- B. TOWER GROUND RING: THE GROUND RING SYSTEM SHALL BE INSTALLED AROUND AN ANTENNA TOWER'S LEGS, AND/OR GUY ANCHORS. WHERE SEPARATE SYSTEMS HAVE BEEN PROVIDED FOR THE TOWER AND THE BUILDING, AT LEAST TWO BONDS SHALL BE MADE BETWEEN THE TOWER RING GROUND SYSTEM AND THE BUILDING RING GROUND SYSTEM USING MINIMUM #2 AWG SOLID COPPER CONDUCTORS.
- C. INTERIOR GROUND RING: #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTOR EXTENDED AROUND THE PERIMETER OF THE EQUIPMENT AREA. ALL NON-TELECOMMUNICATIONS RELATED METALLIC OBJECTS FOUND WITHIN A SITE SHALL BE GROUNDED TO THE INTERIOR GROUND RING WITH #6 AWG STRANDED GREEN INSULATED CONDUCTOR.
- D. BOND TO INTERIOR GROUND RING: #2 AWG SOLID TINNED COPPER WIRE PRIMARY BONDS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING, LOCATED AT THE CORNERS OF THE BUILDING.
- E. GROUND ROD: UL LISTED COPPER CLAD STEEL. MINIMUM 1/2" DIAMETER BY EIGHT FEET LONG. GROUND RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND RING CONDUCTOR.
- F. CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG UNLESS NOTED OTHERWISE. STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUCTORS.
- G. HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CRGB MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS EACH.
- H. EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE.
- I. TELCO GROUND BAR: BOND TO BOTH CELL REFERENCE GROUND BAR OR EXTERIOR GROUND RING.
- J. FRAME BONDING: THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT ISOLATED FROM THE EQUIPMENTS METAL FRAMEWORK.
- K. INTERIOR UNIT BONDS: METAL FRAMES, CABINETS AND INDIVIDUAL METALLIC UNITS LOCATED WITH THE AREA OF THE INTERIOR GROUND RING REQUIRE A #6 AWG STRANDED GREEN INSULATED COPPER BOND TO THE INTERIOR GROUND RING.
- L. FENCE AND GATE GROUNDING: METAL FENCES WITHIN 7 FEET OF THE EXTERIOR GROUND RING OR OBJECTS BONDED TO THE EXTERIOR GROUND RING SHALL BE BONDED TO THE GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTOR AT AN INTERVAL NOT EXCEEDING 25 FEET. BONDS SHALL BE MADE AT EACH GATE POST AND ACROSS GATE OPENINGS.
- M. EXTERIOR UNIT BONDS: METALLIC OBJECTS, EXTERNAL TO OR MOUNTED TO THE BUILDING, SHALL BE BONDED TO THE EXTERIOR GROUND RING. USING #2 TINNED SOLID COPPER WIRE
- N. ICE BRIDGE SUPPORTS: EACH ICE BRIDGE LEG SHALL BE BONDED TO THE GROUND RING WITH #2 AWG BARE TINNED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELDS AT BOTH THE ICE BRIDGE LEG AND BURIED GROUND RING.
- O. DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICE CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH A MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR
- P. TOWER TOP COLLECTOR BUSS BAR IS TO BE MECHANICALLY BONDED TO PROPOSED ANTENNA MOUNT COLLAR. REFER TO DISH Wireless L.L.C. GROUNDING NOTES.

GROUNDING KEY NOTES

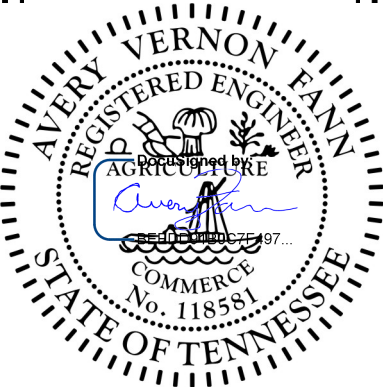
NO SCALE 3

dish
wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

Kimley»Horn

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A&E PROJECT NUMBER

KHCLC-19375

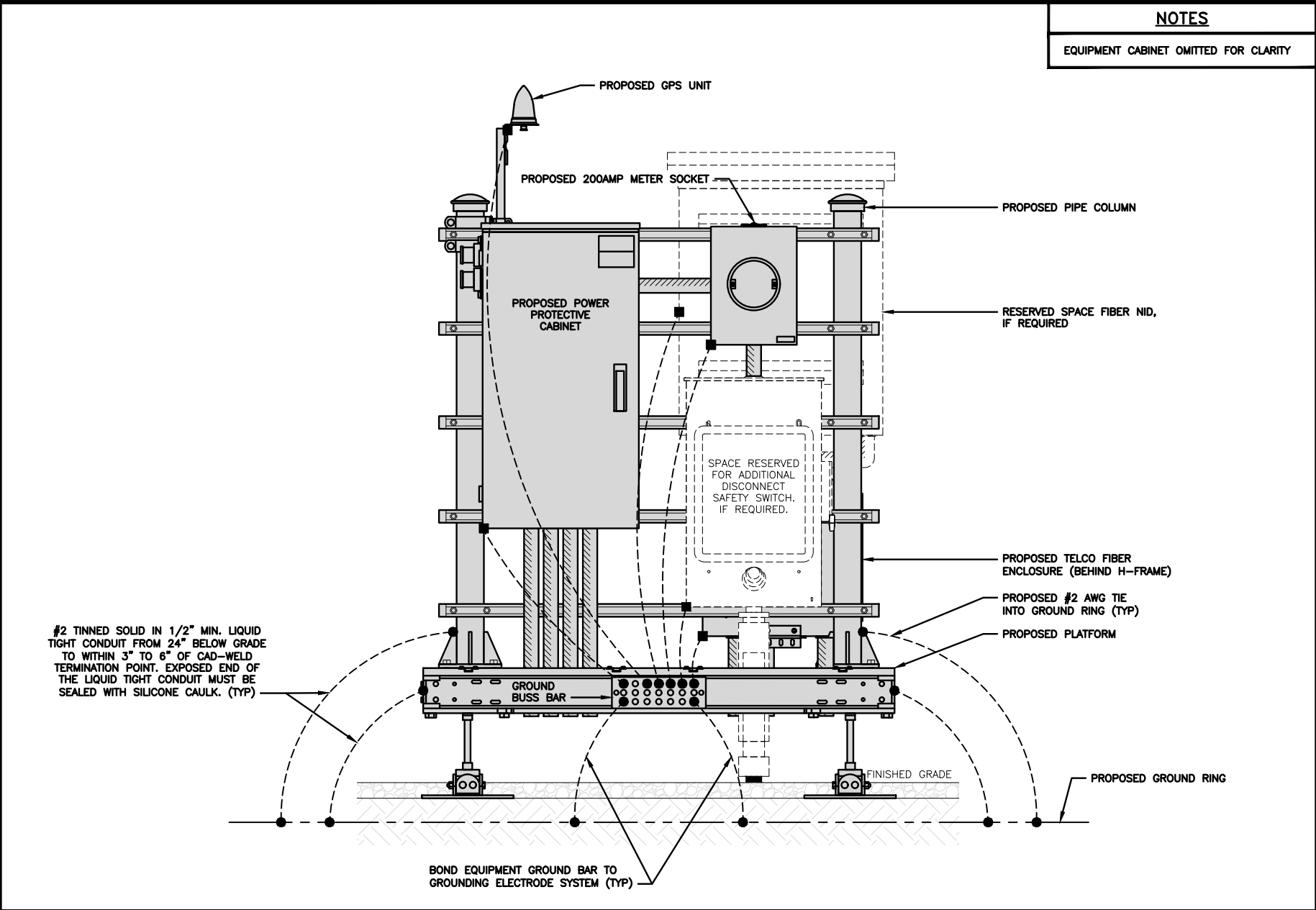
DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE
GROUNDING PLANS
AND NOTES

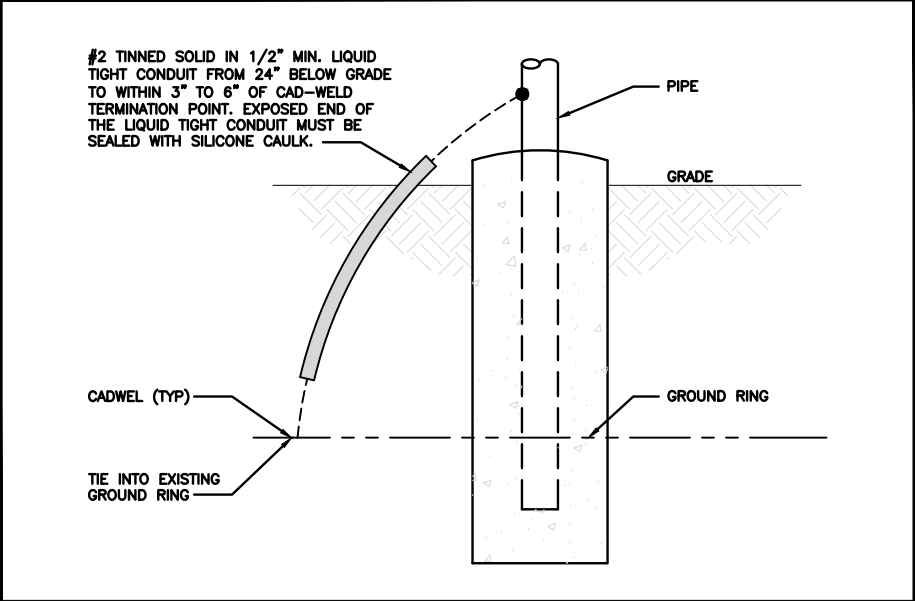
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G-1



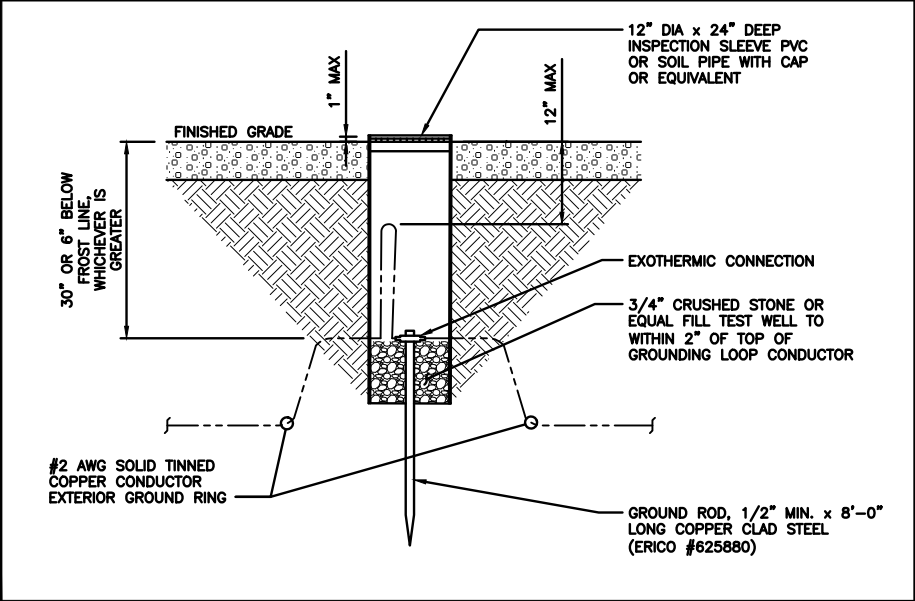
H-FRAME GROUNDING DETAIL

NO SCALE 1



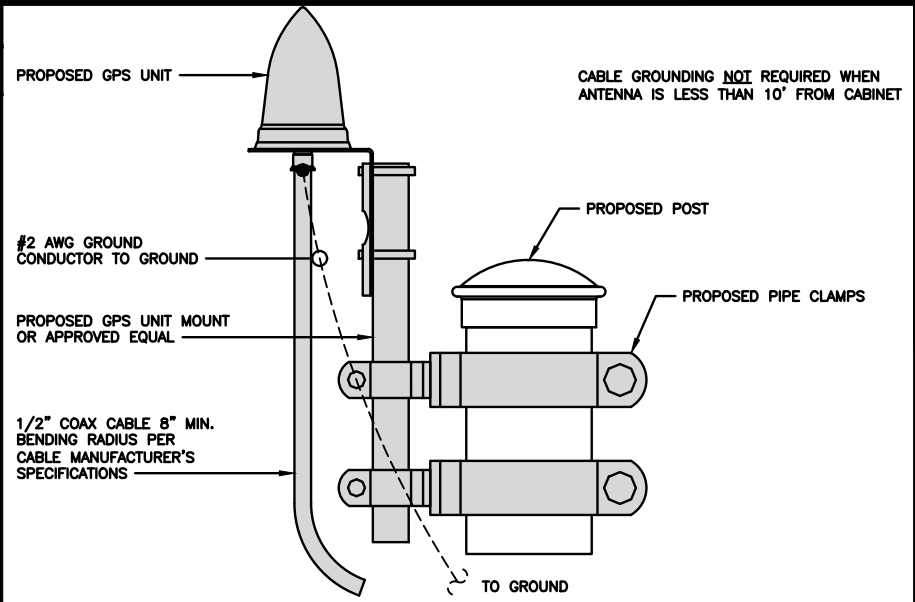
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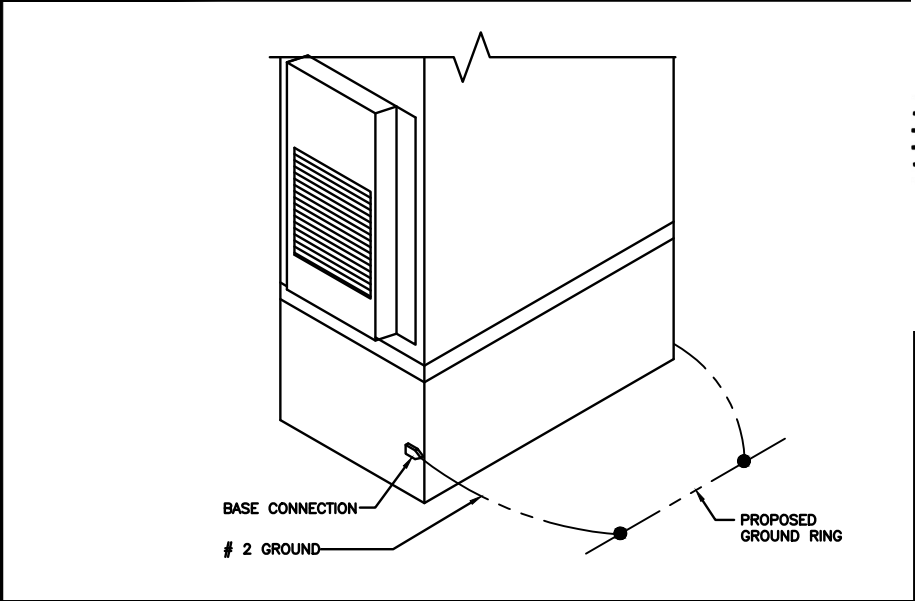
TYPICAL TEST GROUND ROD WITH INSPECTION SLEEVE

NO SCALE 5



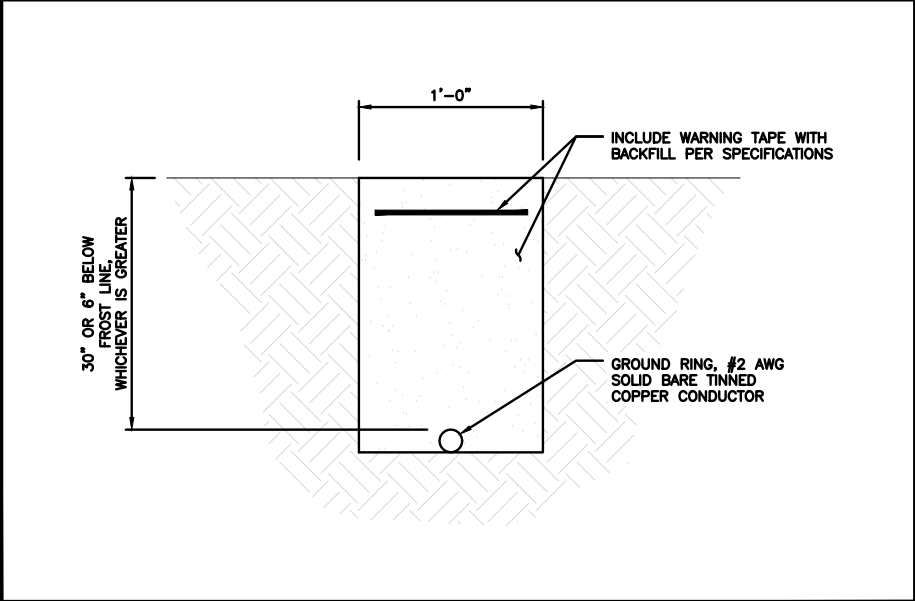
TYPICAL GPS UNIT GROUNDING

NO SCALE 2



OUTDOOR CABINET GROUNDING

NO SCALE 3



TYPICAL GROUND RING TRENCH

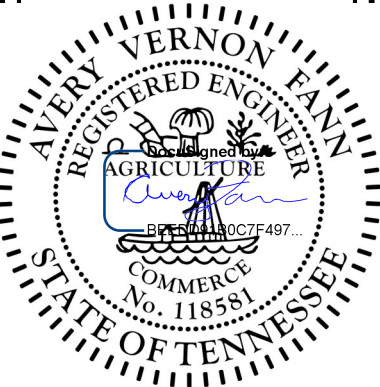
NO SCALE 6

dish wireless.

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A	01/17/2022	ISSUED FOR REVIEW
0	02/01/2022	ISSUED FOR CONSTRUCTION
1	06/23/2022	REVISED PER CLIENT
2	08/17/2022	REVISED PER CLIENT
3	01/04/2023	REVISED PER CLIENT

A&E PROJECT NUMBER

KHCL-19375

DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER

G-2

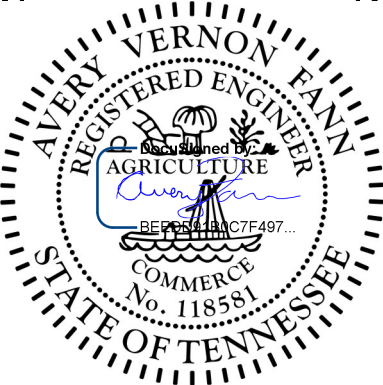
1. EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUND BAR. ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD. 2. ALL EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. 3. FOR GROUND BOND TO STEEL ONLY: COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. 4. DO NOT INSTALL CABLE GROUNDING KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUNDING BUS. 5. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE. 6. ALL GROUNDING PARTS AND EQUIPMENT TO BE SUPPLIED AND INSTALLED BY CONTRACTOR. 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED. 8. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).														
TYPICAL GROUNDING NOTES			NO SCALE	1	TYPICAL EXTERIOR TWO HOLE LUG			NO SCALE	2	TYPICAL INTERIOR TWO HOLE LUG			NO SCALE	3
LUG DETAIL			NO SCALE	4	NOT USED			NO SCALE	5	NOT USED			NO SCALE	6
NOT USED			NO SCALE	7	NOT USED			NO SCALE	8	NOT USED			NO SCALE	9



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601



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DRAWN BY: CHECKED BY: APPROVED BY:

GJV MCK ---

RFDS REV #: ---

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RED BANK, TN 37415

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER

G-3

HYBRID/DISCREET CABLES				3/4" TAPE WIDTHS WITH 3/4" SPACING											
LOW-BAND RRH (600 MHz N71 BASEBAND) + (850 MHz N26 BAND) + (700 MHz N29 BAND) – OPTIONAL PER MARKET ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BAND)				ALPHA RRH				BETA RRH				GAMMA RRH			
				PORT 1 + SLANT	PORT 2 – SLANT	PORT 3 + SLANT	PORT 4 – SLANT	PORT 1 + SLANT	PORT 2 – SLANT	PORT 3 + SLANT	PORT 4 – SLANT	PORT 1 + SLANT	PORT 2 – SLANT	PORT 3 + SLANT	PORT 4 – SLANT
				RED	RED	RED	RED	BLUE	BLUE	BLUE	BLUE	GREEN	GREEN	GREEN	GREEN
				ORANGE	ORANGE	RED	RED	ORANGE	ORANGE	BLUE	BLUE	ORANGE	ORANGE	GREEN	GREEN
					WHITE (-) PORT	ORANGE	ORANGE		WHITE (-) PORT	ORANGE	ORANGE		WHITE (-) PORT	ORANGE	ORANGE
MID-BAND RRH (AWS BANDS N66+N70) ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BANDS)				RED	RED	RED	RED	BLUE	BLUE	BLUE	BLUE	GREEN	GREEN	GREEN	GREEN
				PURPLE	PURPLE	RED	RED	PURPLE	PURPLE	BLUE	BLUE	PURPLE	PURPLE	GREEN	GREEN
					WHITE (-) PORT	PURPLE	PURPLE		WHITE (-) PORT	PURPLE	PURPLE		WHITE (-) PORT	PURPLE	PURPLE
							WHITE (-) PORT				WHITE (-) PORT				WHITE (-) PORT
HYBRID/DISCREET CABLES				EXAMPLE 1	EXAMPLE 2	EXAMPLE 3	CANISTER COAX #2 (ALPHA)								
INCLUDE SECTOR BANDS BEING SUPPORTED ALONG WITH FREQUENCY BANDS. EXAMPLE 1 – HYBRID, OR DISCREET, SUPPORTS ALL SECTORS, BOTH LOW-BANDS AND MID-BANDS. EXAMPLE 2 – HYBRID, OR DISCREET, SUPPORTS CBRS ONLY, ALL SECTORS. EXAMPLE 3 – MAIN COAX WITH GROUND MOUNTED RRHs.				RED	RED	RED	RED								
				BLUE	BLUE										
				GREEN	GREEN										
				ORANGE	YELLOW										
				PURPLE											
FIBER JUMPERS TO RRHs				LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH				
LOW-BAND HHR FIBER CABLES HAVE SECTOR STRIPE ONLY.				RED	RED	BLUE	BLUE	GREEN	GREEN	ORANGE	PURPLE				
				ORANGE	PURPLE	ORANGE	PURPLE	ORANGE	PURPLE						
POWER CABLES TO RRHs				LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH				
LOW-BAND RRH POWER CABLES HAVE SECTOR STRIPE ONLY				RED	RED	BLUE	BLUE	GREEN	GREEN	ORANGE	PURPLE				
				ORANGE	PURPLE	ORANGE	PURPLE	ORANGE	PURPLE						
RET MOTORS AT ANTENNAS				ANTENNA 1 MID BAND	ANTENNA 1 LOW BAND	ANTENNA 1 MID BAND	ANTENNA 1 LOW BAND	ANTENNA 1 MID BAND	ANTENNA 1 LOW BAND	ANTENNA 1 MID BAND	ANTENNA 1 LOW BAND				
RET CONTROL IS HANDLED BY THE MID-BAND RRH WHEN ONE SET OF RET PORTS EXIST ON ANTENNA. SEPARATE RET CABLES ARE USED WHEN ANTENNA PORTS PROVIDE INPUTS FOR BOTH LOW AND MID BANDS.				IN	IN	IN	IN	IN	IN	IN	IN				
				RED	RED	BLUE	BLUE	GREEN	GREEN	PURPLE	ORANGE				
				PURPLE	ORANGE	PURPLE	ORANGE	PURPLE	ORANGE						
MICROWAVE RADIO LINKS				FORWARD AZIMUTH OF 0–120 DEGREES		FORWARD AZIMUTH OF 120–240 DEGREES		FORWARD AZIMUTH OF 240–359 DEGREES							
LINKS WILL HAVE A 1.5–2 INCH WHITE WRAP WITH THE AZIMUTH COLOR OVERLAPPING IN THE MIDDLE. ADD ADDITIONAL SECTOR COLOR BANDS FOR EACH ADDITIONAL MW RADIO. MICROWAVE CABLES WILL REQUIRE P-TOUCH LABELS INSIDE THE CABINET TO IDENTIFY THE LOCAL AND REMOTE SITE ID's.				PRIMARY	SECONDARY	PRIMARY	SECONDARY	PRIMARY	SECONDARY						
				WHITE	WHITE	WHITE	WHITE	WHITE	WHITE						
				RED	RED	BLUE	BLUE	GREEN	GREEN						
				WHITE	WHITE	WHITE	WHITE	WHITE	WHITE						
					RED		BLUE		GREEN						
					WHITE		WHITE		WHITE						

RF CABLE COLOR CODES

1

NOT USED

4

LOW BANDS (N71+N26)
OPTIONAL - (N29)

ORANGE

AWS
(N66+N70+H-BLOCK)

PURPLE

CBRS TECH
(3 GHz)

YELLOW

NEGATIVE SLANT PORT
ON ANT/RRH

WHITE

ALPHA SECTOR

RED

BETA SECTOR

BLUE

GAMMA SECTOR

GREEN

COLOR IDENTIFIER

2

NOT USED

3

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GJV

MCK

RFDS REV #:

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A&E PROJECT NUMBER

KHCL-19375

DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE

RF
CABLE COLOR CODES

SHEET NUMBER

RF-1

EXOTHERMIC CONNECTION MECHANICAL CONNECTION BUSS BAR INSULATOR CHEMICAL ELECTROLYTIC GROUNDING SYSTEM TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM EXOTHERMIC WITH INSPECTION SLEEVE GROUNDING BAR GROUND ROD TEST GROUND ROD WITH INSPECTION SLEEVE SINGLE POLE SWITCH DUPLEX RECEPTACLE DUPLEX GFCI RECEPTACLE FLUORESCENT LIGHTING FIXTURE (2) TWO LAMPS 48-T8 SMOKE DETECTION (DC) EMERGENCY LIGHTING (DC) SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW LED-1-25A400/51K-SR4-120-PE-DDBTXD CHAIN LINK FENCE WOOD/WROUGHT IRON FENCE WALL STRUCTURE LEASE AREA PROPERTY LINE (PL) SETBACKS ICE BRIDGE CABLE TRAY WATER LINE UNDERGROUND POWER UNDERGROUND TELCO OVERHEAD POWER OVERHEAD TELCO UNDERGROUND TELCO/POWER ABOVE GROUND POWER ABOVE GROUND TELCO ABOVE GROUND TELCO/POWER WORKPOINT SECTION REFERENCE DETAIL REFERENCE ● ■ ▲ W.P. XX X-X XX X-X ABANCHOR BOLT ABVABOVE ACALTERNATING CURRENT ADDLADDITIONAL AFFABOVE FINISHED FLOOR AFGABOVE FINISHED GRADE AGLABOVE GROUND LEVEL AICAMPERAGE INTERRUPTION CAPACITY ALUMALUMINUM ALTALTERNATE ANTANTENNA APPROXAPPROXIMATE ARCHARCHITECTURAL ATSAUTOMATIC TRANSFER SWITCH AWGAMERICAN WIRE GAUGE BATTBATTERY BLDGBUILDING BLKBLOCK BLKGBLOCKING BMBEAM BTCBARE TINNED COPPER CONDUCTOR BOFBOTTOM OF FOOTING CABCABINET CANTCANTILEVERED CHGCHARGING CLGCEILING CLRCLEAR COLCOLUMN COMMCOMMON CONCCONCRETE CONSTRCONSTRUCTION DBLDOUBLE DCDIRECT CURRENT DEPTDEPARTMENT DFDOUGLAS FIR DIA DIAMETER DIAGDIAGONAL DIMDIMENSION DWGDRAWING DWLDOWEL EAEACH ECELECTRICAL CONDUCTOR ELELEVATION ELECELECTRICAL EMTELECTRICAL METALLIC TUBING ENGENGINEER EQUEQUAL EXPEXPANSION EXTEXTERIOR EW EACH WAY FABFABRICATION FFFINISH FLOOR FGFINISH GRADE FIFACILITY INTERFACE FRAME FINFINISH(ED) FLRFLOOR FDNFOUNDATION FOCFACE OF CONCRETE FOMFACE OF MASONRY FOSFACE OF STUD FOWFACE OF WALL FSFINISH SURFACE FTFOOT FTGFOOTING GAGAUGE GENGENERATOR GFCIGROUND FAULT CIRCUIT INTERRUPTER GLBGLUE LAMINATED BEAM GLVGALVANIZED GPSGLOBAL POSITIONING SYSTEM GNDGROUND GSMGLOBAL SYSTEM FOR MOBILE HDGHOT DIPPED GALVANIZED HDRHEADER HGRHANGER HVACHHEAT/VENTILATION/AIR CONDITIONING HTHEIGHT IGRINTERIOR GROUND RING ININCH INTINTERIOR LB(S)POUND(S) LF LINEAR FEET LTE LONG TERM EVOLUTION MASMASONRY MAXMAXIMUM MBMACHINE BOLT MECHMECHANICAL MFRMANUFACTURER MGBMASTER GROUND BAR MINMINIMUM MISCMISCELLANEOUS MTLMETAL MTSMANUAL TRANSFER SWITCH MWMICROWAVE NECNATIONAL ELECTRIC CODE NMNEWTON METERS NO. NUMBER #NUMBER NTSNOT TO SCALE OC ON-CENTER OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OPNGOPENING P/C PRECAST CONCRETE PCSPERSONAL COMMUNICATION SERVICES PCUPRIMARY CONTROL UNIT PRCPRIMARY RADIO CABINET PPPOLARIZING PRESERVING PSFPOUNDS PER SQUARE FOOT PSIPOUNDS PER SQUARE INCH PTPRESSURE TREATED PWRPOWER CABINET QTYQUANTITY RADRADIUS RECTRECTIFIER REFREFERENCE REINFREINFORCEMENT REQ'DREQUIRED RETRREMOTE ELECTRIC TILT RF RADIO FREQUENCY RMC RIGID METALLIC CONDUIT RRHREMOTE RADIO HEAD RRURREMOTE RADIO UNIT RWYRACEWAY SCHSCHEDULE SHTSHEET SIADSMART INTEGRATED ACCESS DEVICE SIMSIMILAR SPECSPECIFICATION SQSQUARE SSSTAINLESS STEEL STDSTANDARD STLSTEEL TEMPTEMPORARY THKTHICKNESS TMATOWER MOUNTED AMPLIFIER TNTOE NAIL TOATOP OF ANTENNA TOCTOP OF CURB TOFTOP OF FOUNDATION TOPTOP OF PLATE (PARAPET) TOSTOP OF STEEL TOWTOP OF WALL TVSSTRANSIENT VOLTAGE SURGE SUPPRESSION TYP TYPICAL UGUNDERGROUND ULUNDERWRITERS LABORATORY UNO UNLESS NOTED OTHERWISE UMTS UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM UPS UNINTERRUPTIBLE POWER SYSTEM (DC POWER PLANT) VIFVERIFIED IN FIELD WWIDE W/ WITH WDWOOD WPWEATHERPROOF WTWEIGHT LEGEND ABBREVIATIONS
--

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601

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DRAWN BY: GJV

CHECKED BY: MCK

APPROVED BY: ---

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

REV

DATE

DESCRIPTION

A

01/17/2022

ISSUED FOR REVIEW

0

02/01/2022

ISSUED FOR CONSTRUCTION

1

06/23/2022

REVISED PER CLIENT

2

08/17/2022

REVISED PER CLIENT

3

01/04/2023

REVISED PER CLIENT

A&E PROJECT NUMBER

KHCLC-19375

DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE

LEGEND AND ABBREVIATIONS

SHEET NUMBER

GN-1

SIGN TYPES		
TYPE	COLOR	COLOR CODE PURPOSE
INFORMATION	GREEN	"INFORMATIONAL SIGN" TO NOTIFY OTHERS OF SITE OWNERSHIP & CONTACT NUMBER AND POTENTIAL RF EXPOSURE.
NOTICE	BLUE	"NOTICE BEYOND THIS POINT" RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
CAUTION	YELLOW	"CAUTION BEYOND THIS POINT" RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
WARNING	ORANGE/RED	"WARNING BEYOND THIS POINT" RF FIELDS AT THIS SITE EXCEED FCC RULES FOR HUMAN EXPOSURE. FAILURE TO OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS COULD RESULT IN SERIOUS INJURY. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)

SIGN PLACEMENT:

- RF SIGNAGE PLACEMENT SHALL FOLLOW THE RECOMMENDATIONS OF AN EXISTING EME REPORT, CREATED BY A THIRD PARTY PREVIOUSLY AUTHORIZED BY DISH Wireless L.L.C.
- INFORMATION SIGN (GREEN) SHALL BE LOCATED ON EXISTING DISH Wireless L.L.C. EQUIPMENT.
 - A) IF THE INFORMATION SIGN IS A STICKER, IT SHALL BE PLACED ON EXISTING DISH Wireless L.L.C. EQUIPMENT CABINET.
 - B) IF THE INFORMATION SIGN IS A METAL SIGN IT SHALL BE PLACED ON EXISTING DISH Wireless L.L.C. H-FRAME WITH A SECURE ATTACH METHOD.
- IF EME REPORT IS NOT AVAILABLE AT THE TIME OF CREATION OF CONSTRUCTION DOCUMENTS; PLEASE CONTACT DISH Wireless L.L.C. CONSTRUCTION MANAGER FOR FURTHER INSTRUCTION ON HOW TO PROCEED.

NOTES:

1. FOR DISH Wireless L.L.C. LOGO, SEE DISH Wireless L.L.C. DESIGN SPECIFICATIONS (PROVIDED BY DISH Wireless L.L.C.)
2. SITE ID SHALL BE APPLIED TO SIGNS USING "LASER ENGRAVING" OR ANY OTHER WEATHER RESISTANT METHOD (DISH Wireless L.L.C. APPROVAL REQUIRED)
3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER AS PER DISH Wireless L.L.C. CONSTRUCTION MANAGER RECOMMENDATIONS.
4. CABINET/SHELTER MOUNTING APPLICATION REQUIRES ANOTHER PLATE APPLIED TO THE FACE OF THE CABINET WITH WATER PROOF POLYURETHANE ADHESIVE
5. ALL SIGNS WILL BE SECURED WITH EITHER STAINLESS STEEL ZIP TIES OR STAINLESS STEEL TECH SCREWS
6. ALL SIGNS TO BE 8.5"x11" AND MADE WITH 0.04" OF ALUMINUM MATERIAL

INFORMATION

This is an access point to an area with transmitting antennas.

Obey all signs and barriers beyond this point.
Call the DISH Wireless L.L.C. NOC at 1-866-624-6874

Site ID: _____



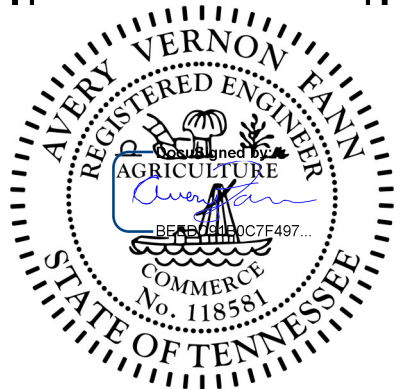
THIS SIGN IS FOR REFERENCE PURPOSES ONLY

dish
wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

Kimley»Horn

421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601



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KHCL-19375

DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-2

NOTICE



Transmitting Antenna(s)

Radio frequency fields beyond this point **MAY EXCEED** the FCC Occupational exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 prior to working beyond this point.

Site ID: _____

dish

THIS SIGN IS FOR REFERENCE PURPOSES ONLY

CAUTION



Transmitting Antenna(s)

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Obey all posted signs and site guidelines for working in radio frequency environments.

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Site ID: _____

dish

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WARNING



Transmitting Antenna(s)

Radio frequency fields beyond this point **EXCEED** the FCC Occupational exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 prior to working beyond this point.

Site ID: _____

dish

THIS SIGN IS FOR REFERENCE PURPOSES ONLY

RF SIGNAGE

SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED – NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR RECEIVING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH Wireless L.L.C. AND TOWER OWNER NOC & THE DISH Wireless L.L.C. AND TOWER OWNER CONSTRUCTION MANAGER.
2. "LOOK UP" – DISH Wireless L.L.C. AND TOWER OWNER SAFETY CLIMB REQUIREMENT:

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

GENERAL NOTES:

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

CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

CARRIER: DISH Wireless L.L.C.

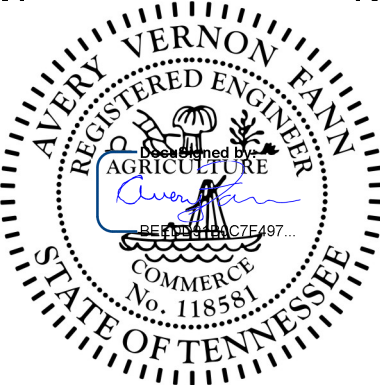
TOWER OWNER: TOWER OWNER
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. 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 CARRIER POC AND TOWER OWNER.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER’S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION, BEFORE SUBMITTING BIDS, 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 DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR’S EXPENSE TO THE SATISFACTION OF DISH Wireless L.L.C. AND TOWER OWNER
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER’S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.



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DRAWN BY:	CHECKED BY:	APPROVED BY:
GJV	MCK	---

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

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A&E PROJECT NUMBER
KHCL–19375

DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE
GENERAL NOTES

SHEET NUMBER

GN-3

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1.

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST–IN–PLACE CONCRETE.
2.

UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3.

ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f’c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
4.

CONCRETE EXPOSED TO FREEZE–THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER–TO–CEMENT RATIO (W/C) OF 0.45.
5.

ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:

#4 BARS AND SMALLER 40 ksi
#5 BARS AND LARGER 60 ksi
6.

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

• CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"

• CONCRETE EXPOSED TO EARTH OR WEATHER:

• #6 BARS AND LARGER 2"

• #5 BARS AND SMALLER 1–1/2"

• CONCRETE NOT EXPOSED TO EARTH OR WEATHER:

• SLAB AND WALLS 3/4"

• BEAMS AND COLUMNS 1–1/2"
7.

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.

ELECTRICAL INSTALLATION NOTES:

1.

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2.

CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3.

WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4.

ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

4.1.

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

4.2.

ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5.

EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6.

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).
7.

PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8.

TIE WRAPS ARE NOT ALLOWED.
9.

ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
10.

SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
11.

POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI–CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12.

POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
13.

ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14.

RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15.

ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16.

ELECTRICAL METALLIC TUBING (EMT) OR METAL–CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

17.

SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18.

LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19.

CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20.

CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21.

WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22.

SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23.

CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON–PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER–ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24.

EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3 (OR BETTER) FOR EXTERIOR LOCATIONS.
25.

METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED OR NON–CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26.

NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27.

THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH Wireless L.L.C. AND TOWER OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28.

THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29.

INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "DISH Wireless L.L.C.".
30.

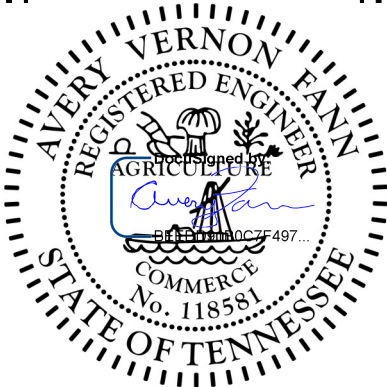
ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

dish
wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

Kimley»Horn

421 FAYETTEVILLE ST, SUITE 600
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A&E PROJECT NUMBER

KHCL–19375

DISH Wireless L.L.C.
PROJECT INFORMATION

KNTYS00277A
3117A DAYTON BLVD.
RED BANK, TN 37415

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-4

GROUNDING NOTES:

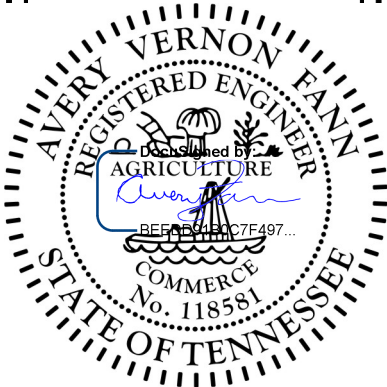
1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES's) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. 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.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.



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