

STAFF REPORT

Planning Commission Meeting: June 10, 2024

SU23-0007: Request for approval of a Special Use Permit for a Application:

compound expansion of existing

telecommunications facility.

Location: 15201 S. Mur-Len Road

Owner: Global Signal Acquisitions IV, LLC

Justin Davis, Crown Castle Applicant:

Staff Contact: Andrea Fair, AICP; Planner II

Site Area: **Proposed Use:** Expansion of an Existing 7.43 acres

Telecommunications Facility

Plat: CP-3 (Planned <u>Unplatted</u> **Existing**

Community/ Corridor Zoning: **Business District**)

Plan Olathe **Existing Use Existing Zoning Land Use Category** CP-3 (Planned Conventional Commercial & Site Community/Corridor Neighborhood **Telecommunications Business**) Community Commercial North Commercial, Retail C-2 (Community Center) Center Conventional Residential, Single-C-O (Office)/R-1 (Single-South Neighborhood Family Family) Conventional Residential, Single-C-O (Office)/R-1 (Single-East Neighborhood Family) Family Conventional Residential, Single-West R-1 (Single-Family) Neighborhood Family

1. Introduction

The applicant is requesting a special use permit for the expansion of an existing compound area housing ground mounted utilities for a Verizon Wireless telecommunications facility located at 15201 S. Mur-Len Road. The applicant is proposing a 348 square foot expansion to accommodate a 264 square foot equipment shelter and accessory ground equipment. New antenna for Verizon will also be installed on the existing 100-foot tall tower. The increase in compound area is considered a major modification per Unified Development Ordinance (UDO) Section 18.15.220.F.2 which requires approval of a special use permit.

2. History

The property was zoned to the CP-3 (Planned Community/Corridor Business) District in 1978 (RZ78-0023). There is an existing building directly west of the telecommunications facility that was constructed in 1969 for commercial warehouse uses. In 2000, a 60-foot tall telecommunications tower was constructed, which was the maximum height allowed without the need for a special use permit. In 2019, a special use permit (SU19-0007) was approved to increase the total height of the tower to 100 feet and an expansion of the compound area of 660 square feet.

3. Existing Conditions

The subject property contains existing commercial warehouse structures that were built in 1969 and have contained various uses over the past 50 years. The existing telecommunications facility was constructed in 2000 and an additional antenna was approved for a second provider in 2010 (PAR10-0004). The City owns the property directly south which currently contains a fiber equipment facility for Google.



View of the subject property looking northeast.



Site location map – outlined in yellow.

Location of compound area – outlined in red.

4. Zoning Standards

- a. <u>Land Use</u> No changes to existing land uses are proposed. The existing telecommunications tower and proposed expansion of the compound area require approval of a special use permit; no other uses are requested at this time.
- b. <u>Height</u> The equipment building is 10 feet tall and complies with the 12-foot maximum height requirement. New antenna will be mounted on the existing tower at a centerline of 75 feet, co-located on the existing 100-foot tower that was approved under application SU19-0007.
- c. <u>Setbacks</u> The proposed structure exceeds all minimum setback requirements from the property line and nearby residential properties. The ground equipment is setback 160 feet from the north property line, 155 feet from the south property line, 110 feet from the east property line, and 190 feet from the west property line.

5. Development Standards

 a. <u>Access/Streets</u> – The facility maintains access from an existing driveway that connects to S. Mur-Len Road. Portions of the drive consist of asphalt while other portions of the existing access are gravel just north of the buildings.

- b. <u>Accessory Equipment</u> The applicant is requesting an expansion of the existing compound area to install additional necessary ground equipment and a 264 square foot equipment building. The equipment includes a generator, ice bridge and other accessory components which will be contained within a fenced enclosure to screen all ground-level components from view. All cables and power trunks will be run through the inside of the tower to limit the visibility of accessory components on the monopole structure. The equipment building is a prefabricated structure that is 264 square feet, 10 feet tall and will complement the colors of the existing structures on site. The equipment building meets all UDO requirements.
- c. <u>Landscaping</u> Screening of the ground-level equipment will be provided through the planting of a row of staggered evergreen trees east and south of the compound area. The chain-link fencing surrounding the existing compound area will be removed and replaced with black vinyl coated fabric fencing along the entire perimeter of the compound area. The plans currently show barbed wire along the top of the fence which is not permitted in commercial districts and staff has stipulated that all barbed wire must be removed from plans prior to building permit submittal.

6. Public Notification and Neighborhood Meeting

The applicant mailed the required public notification letters to surrounding property owners within 200-feet and posted a sign on the subject property per UDO requirements. A neighborhood meeting was also held in accordance with the UDO on April 5th, 2024 and no members of the public attended the meeting. Staff has received correspondence from one individual and responded to their inquiries.

7. Time Limit

According to UDO 18.50.220, special use permits for telecommunications facilities are approved for an initial time limit of 10 years with subsequent renewals of 10 years each. This special use permit will replace the existing special use permit (SU19-0007).

8. UDO Special Use Criteria

The Future Land Use Map of the PlanOlathe Comprehensive Plan identifies the subject property as a Conventional Neighborhood. The site is currently zoned CP-3 (Planned Community/Corridor) and the site is surrounded by residential, and commercial uses. A SUP is required for telecommunication facilities in any zoning district to ensure adequate precautions are taken to ensure compatibility with the surrounding area. The proposed special use meets the following policy elements of the Comprehensive Plan:

CF-2.3 Service Provider Coordination: Coordinate with other service providers on development requests to ensure that necessary services not provided by the City should be made available for planned new development and redevelopment.

Staff reviewed the application against UDO criteria for considering all special use applications, as listed in UDO Section 18.40.100.F. Staff finds the request meets the criteria as detailed below.

A. The conformance of the proposed use to the Comprehensive Plan and other adopted planning policies.

PlanOlathe promotes that the installation and extension of all utilities will be consistent with the provisions of the comprehensive plan and with the responsibilities of the respective utility providers. The proposed use will conform with comprehensive plan principles and other planning policies adopted by the City.

B. The character of the neighborhood including but not limited to: land use, zoning, density (residential), architectural style, building materials, height, structural mass, siting, open space and floor-to-area ratio (commercial and industrial).

The property is surrounding by commercial uses to the north, and traditional single-family residential uses of one and two-story heights to the west, south and east. The proposed use is located interior to the site to provide the greatest extent of separation from the surrounding neighborhoods and is partially screened by the existing commercial/warehouse structure. The proposal meets the minimum height and setback requirements that are permitted for telecommunications facilities in a nonresidential district.

C. The zoning and uses of nearby properties, and the extent to which the proposed use would be in harmony with such zoning districts and uses.

The surrounding properties contain R-1 and C-2 zoning districts which are both considered low-intensity, residential and commercial districts. The regulations for telecommunications facilities ensure that residents and businesses have reliable access to wireless telecommunications networks while also protecting the health, safety, welfare, and aesthetic character of the community.

D. The suitability of the property for the uses to which it has been restricted under the applicable zoning district regulations.

The property is suitable for the permitted uses to which it has been restricted within the CP-3 District; however, a special use permit is required in all districts to further evaluate the compatibility of telecommunications facilities in regard to existing conditions in the surrounding area.

E. The length of time the property has remained vacant as zoned.

The subject property is not currently vacant and was zoned CP-3 Planned Commercial District in 1978. A special use permit for a telecommunications facility was originally approved in 2019 and the facility has been operational since that time.

F. The extent to which approval of the application would detrimentally affect nearby properties.

The compound expansion is not anticipated to detrimentally affect nearby properties. The proposed expansion to the telecommunications facility is located within the interior of the site with considerable setbacks to minimize visual impact from the arterial roadway and surrounding properties. The ground mounted equipment is completely screened from view from Mur-Len Road by the existing building. Additional landscaping will be planted to provide screening of the ground equipment from residential properties located to the east and south.

G. The extent to which development under the proposed district would substantially harm the value of nearby properties.

The compound expansion is not anticipated to harm the value of nearby properties. The proposed expansion to the telecommunications facility is located within the interior of the site to minimize visual impact from the arterial roadway and surrounding properties. Additional landscaping will be planted to provide screening of the ground equipment from residential properties located to the east and south.

H. The extent to which the proposed use would adversely affect the capacity or safety of that portion of the road network influenced by the use, or present parking problems in the vicinity of the property.

The proposed use will have no impact on the surrounding road network or parking available on the property.

I. The extent to which the proposed use would create air pollution, water pollution, noise pollution or other environmental harm.

Staff is not aware of any potential for unlawful levels of air, water, or noise pollution with the proposed expansion. Landscaping is being added to the site and there is no increase in impervious surface. The use is subject to all local, state, and federal environmental guidelines.

J. The economic impact of the proposed use on the community.

The proposed telecommunications facility compound expansion accommodates additional coverage for current and future wireless customers in the surrounding vicinity.

K. The gain, if any, to the public health, safety and welfare due to denial of the application as compared to the hardship imposed upon the landowner, if any, as a result of denial of the application.

There is no gain or detriment to the public health, safety, or welfare if the application were denied. If the application were denied, the applicant would not be able to expand the compound area to accommodate the additional equipment.

9. Staff Recommendation

Staff recommends approval of the special use permit (SU23-0007) with the following stipulations:

- 1. The special use permit for the Telecommunication Facility and expanded compound area is approved for a ten (10) year period effective from the date of the Resolution.
- 2. All landscaping must be installed per plans dated May 28, 2024 prior to certificate of completion.
- 3. Barbed wire is prohibited in commercial districts and must be removed from all plans with building permit submittals.



verizon

KCYC HERITAGE SQUARE

VERIZON SITE LOCATION CODE: 661221

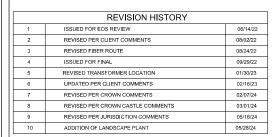
MARKET: KSMO

TOWER OWNER INFO# CROWN CASTLE

15201 MUR-LEN **OLATHE, KS 66062**

UPDATED PER CLIENT COMMENTS

03/01/2024



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FIBER CONTACT

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VERIZON NETWORK COMPLIANCE VERIZON WIRELESS

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VERIZON NETWORK COMPLIANCE VERIZON WIRELESS

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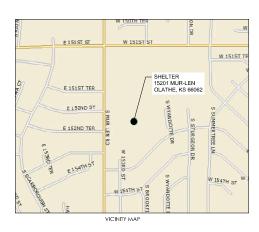
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GENERAL DRAWINGS

G002 GENERAL NOTES VERIZON STANDARDS

CIVIL DRAWINGS

CIVIL GENERAL NOTES CIVIL SITE DEMOLITION PLAN PROPOSED SITE PLAN CD101 C101 CIVIL DETAILS

CIVIL DETAILS C503 FENCE MATERIAL DATA LANDSCAPE PLAN

ANTENNA DRAWINGS

ANTIO2 ANTENNA SCHEMATIC FOUNDATION DETAILS

ANT501 ANTENNA PLUMBING DIAGRAM & RF PARTS LIST ANT502 ANTENNA MOUNTING DETAILS ANT503 ANTENNA MOUNTING DETAILS

ARCHITECTURAL DRAWINGS

GENERAL NOTES & LEGEND PROPOSED FLOOR PLAN REFLECTED CEILING PLAN **ELEVATIONS & SECTIONS** CABLE TRAY DETAILS

STRUCTURAL DRAWINGS

STRUCTURAL GENERAL NOTES

MECHANICAL DRAWINGS

MECHANICAL GENERAL NOTES MECHANICAL FLOOR PLAN MECHANICAL DETAILS M50 MECHANICAL DETAILS MECHANICAL SCHEDULES

BUILDING AUTOMATION SYSTEM

BADDL RUILDING AUTOMATION GENERAL NOTES BUILDING AUTOMATION NOC ALARM

ELECTRICAL DRAWINGS

ELECTRICAL GENERAL NOTES ENLARGED UTILITY ROUTING PLAN UTILITY ROUTING PLAN ELECTRICAL FLOOR PLAN POWER & LIGHTING PLAN INTERIOR GROUNDING PLAN EXTERIOR GROUNDING PLAN GROUNDING DETAILS GROUNDING DETAILS
ONE LINE DIAGRAM & LOAD ANALYSIS

ATTACHMENT DRAWINGS

* SHELTER SPECIFICATIONS (BY OTHERS)

PROJECT GENERAL NOTES:

THE FOLLOWING GENERAL NOTES ARE INTENDED TO SUMMARIZE REQUIREMENTS OF THE PROJECT.

DRAWINGS & SPECIFICATIONS:

- A. THE DRAWINGS, SPECIFICATIONS, REFERENCED STANDARDS, OWNER WIRELESS STANDARDS, OTHER REP ATTACHMENTS AND THE TERMS AND CONDITIONS ARE COMPLIMENTARY OF ONE ANOTHER. IN THE EVENT OF CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, REFERENCED STANDARDS, OWNER WIRELESS STANDARDS, OTHER REP ATTACHMENTS OR TERMS AND CONDITIONS, THE ARCHITECT/ENGINEER SHALL BE CONTACTED FOR FORMAL INTERPRETATION OF THE REQUIREMENT. THE CONTRACTOR SHALL BE DEEMED TO HAVE PROVIDED THE MOST DETAILED AND EXPENSIVE INTERPRETATION OF THE REQUIREMENT. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECT/ENGINEER INTERPRETATION SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO EXPENSE TO OWNER.
- THE INTENT OF THE DRAWINGS IS TO SHOW GENERAL SCOPE AND INTENT OF THE WORK, METHODS AND MATERIALS NOT EXPLICIT BUT IMPLIED ARE INTENDED TO BE BUILDER DESIGNED, FURNISHED AND INSTALLED.

COORDINATION:

- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE WORK. THE PROJECT GENERAL NOTES PERTAIN TO ALL DIVISIONS OF THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING WORK BETWEEN ALL TRADES AND WEEN CONSTRUCTION ACTIVITIES AND THE OCCUPANTS OF THE BUILDING SUCH THAT WORK IS COMPLETED IN A TIMELY MANNER.
- C. CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. EACH DIVISION SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL RELATED DIVISIONS WHOSE WORK INTERFERES WITH THEIR OWN.
- CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL OPENINGS FOR EQUIPMENT WITH APPROVED SHOP DRAWINGS BEFORE PROCEEDING WITH WORK.
- CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL EQUIPMENT PADS AND BASES. CONTRACTOR SHALL VERIFY POWER, WATER AND DRAIN INSTALLATION W/EQUIPMENT MANUFACTURERS BEFORE PROCEEDING WITH THE WORK. PATCH AND REPAIR AFFECTED EXISTING EQUIPMENT/SURFACES AS REQUIRED.
- WHERE INSTALLATION AND/OR CONNECTION OF EQUIPMENT IS NOT SPECIFIED BUT SUCH CONNECTION AND/OR INSTALLATION IS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SUCH CONNECTION AND/OR INSTALLATION, THIS WORK SHALL INCLUDE ALL UTILITY
- ASSIGNMENT OF WORK SEE PROJECT SCOPE AND RFP.

ABBREVIATIONS:

PROVIDED IS NOT INTENDED TO BE COMPLETE OR REPRESENTATIVE OF ALL CONDITIONS OR MATERIALS ACTUALLY USED ON THE PROJECT. THE ARCHITECT WILL DEFINE THE INTENT OF ANY, IN QUESTION.

ALL WORK SHALL BE PERFORMED IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES, STANDARDS AND ALL APPLICABLE AMENDMENTS. IN CASE OF ANY CONFLICT WHEREIN THE METHODS OR STANDARDS OF INSTALLATION OR THE MATERIALS SPECIFIED DO NOT EQUAL OR EXCEED THE REQUIREMENTS OF THE LAWS OR ORDINANCES, THE LAWS AND ORDINANCES WILL GOVERN. NOTIFY ARCHITECT OF ALL CONFUL PRIOR TO COMMENCING ANY WORK. WHERE REQUIRED BY THE AHJ, THE CONTRACTOR SHALL ISSUE PUBLIC NOTICES.

PROVIDE ALL REQUIRED PERMITS:

- CONTRACTOR IS RESPONSIBLE TO PAY FOR AND OBTAIN PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
- B. ALL POSSIBLE RIGHT OF WAY WORK TO BE PER CITY DEPARTMENT OF ENGINEERING STANDARDS.
- WORKING HOURS FOR THE USE OF LOUD EQUIPMENT SHALL BE LIMITED TO TIMES ESTABLISHED BY THE LOCAL JURISDICTION. THIS EQUIPMENT SHALL INCLUDE BUT IS NOT LIMITED TO GENERATORS, COMPRESSORS, GRADERS, DRILLS, COMPACTORS, RADIOS, AND OTHER SIMILAR EQUIPMENT

QUALITY OF MATERIALS AS SPECIFIED SHALL BE CONSIDERED MINIMUM AND ANY CHANGE SHALL BE OF DEMONSTRATED BETTER QUALITY UNLESS SPECIFICALLY RELEASED BY OWNER AND APPROVED BY THE BUILDING DEPARTMENT, MATERIALS NOT SPECIFIED SHALL BE OF A HIGH QUALITY INTENDED FOR COMMERCIAL USE PROVIDE ADEQUATE HEAT AND SHELTER ACCORDING TO MANUFACTURERS STANDARDS AND MATERIAL PRIOR TO, DURING EXECUTION OF THE WORK, AND UNTIL OWNER ACCEPTANCE, TO MAINTAIN DIMENSIONAL STABILITY AND MATERIAL QUALITY. STORED MATERIALS NOT INSTALLED SHALL BE OF A MOISTURE CONTENT THAT WILL NOT ALTER GENERAL APPEARANCE OR INTEGRITY OF ASSEMBLY WHEN MOISTURE CONTENT DECREASES TO SERVICEABLE LEVELS. MATERIALS ARE TO BE INSTALLED IN A PROFESSIONAL MANNER TO THE HIGHEST INDUSTRY STANDARDS.

BUILDING AND EQUIPMENT:

- MAINTAIN AREAS FREE OF DEBRIS ACCUMULATION, KEEP WORK AREAS NEAT AND ORDERLY AS MUCH AS REASONABLY POSSIBLE.
- B. CONTRACTOR TO REMOVE ALL MATERIALS NOT RELATED TO THE FINISHED PRODUCT FROM THE SITE, DO NOT
- 10. CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION, BRACING AND SHORING OF EQUIPMENT OR MATERIALS UNTIL SUCH TIME IT IS PERMANENTLY SUPPORTED OR IS READY FOR REMOVAL DURING CONSTRUCTION
- 11. TOP OF CONCRETE DATUM FLEVATION IS 0'-0". ALL OTHER SLAB HEIGHTS AND RAISED FLOORS ARE SHOWN.

12. CONTRACTOR OPTIONS: WHERE ONLY ONE MANUFACTURER'S EQUIPMENT OR ITEM IS LISTED OR SPECIFIED, OR THE EQUIPMENT OR ITEM IS LISTED AS THE BASIS OF DESIGN PRODUCT, BUT NO OTHER MANUFACTURERS ARE LISTED AS ACCEPTABLE, THEIR PRODUCTS SHALL BE TREATED AS A SUBSTITUTION AND SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN SPECIFICATION SECTION INCLUDED.

13. SUBSTITUTION REQUESTS

ALL SUBSTITUTION REQUESTS MUST BE SUBMITTED TO THE A&E OF RECORD FOR REVIEW AND APPROVAL.

SAFETY:
THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF ALL PERSONNEL BY ADEQUATELY PROTECTING THEM FROM CONSTRUCTION HAZARDS AND ACTIVITIES THROUGHOUT THE COURSE OF THIS WORK. ALL WORK AREAS SHALL BE PROPERLY MARKED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE BARRIERS, BARRICADES, SIGNAGE AND PROPERLY SECURE ALL WORK AREAS, COMMON AREAS, PUBLIC WAS, AND/OR OTHER AREAS A CCESSIBLE TO NON-CONSTRUCTION PERSONNEL SHALL BE FREE OF HAZARDOUS CONDITIONS RESULTING FROM THIS PROJECT AT ALL TIMES. ANY LINSAFE CONDITION ORSERVED SHALL BE REPORTED IMMEDIATELY TO THE OWNER

PROJECT GENERAL NOTES CONTINUED:

15. EMERGENCIES, EVACUATION PROCEDURES, & JOB SITE ACCIDENTS:
IN THE EVENT OF A FACILITY EMERGENCY. THE CONTRACTOR SHALL ADHERE AND ASSIST IN THE COORDINATION
OF THE FOLLOWING EMERGENCY PROCEDURES:

A. ASSURE PERSONNEL SAFETY

- ACCOUNT FOR ALL ON-SITE CONSTRUCTION PERSONNEL AND VISITORS.
- C. EVACUATE OR RECOVER
- D. SUMMON ASSISTANCE

UPON RESTORATION OF ORDER, THE CONTRACTOR'S ON-SITE SUPERINTENDENT SHALL PROVIDE A WRITTEN REPORT DETAILING THE CAUSE OF, AND RECOVERY FROM, THE INCIDENT.

AS REQUIRED FOR MANNED FACILITIES A VISITOR'S BADGE SHALL BE WORN BY ALL PERSONNEL AT ALL TIMES WHILE ON OWNER PROPERTY, WITHOUT EXCEPTION. ALL FORCES SHALL SIGN IN & OUT OF EACH DAY WITH THE OWNER REPRESENTATIVE TO RECEIVE THE BADGE. AT THE DISCRETION OF THE OWNER REPRESENTATIVE, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE DAILY SIGN-IN/OUT OF THE CONTRACTOR FORCES. A VALID DRIVER'S LICENSE OR STATE ID SHALL BE PRESENTED EVERY DAY IN ORDER TO ORTAIN THE RADGE. THE LISTING SHALL INCLUDE THE NAME AND BADGE NUMBER OF ALL PERSONNEL AND BE PROVIDED TO THE OWNER REPRESENTATIVE ON THE FOLLOWING DAY AND SHALL CLEARLY INDICATE THE COMPANY NAME, INDIVIDUAL'S NAME AND BADGE NUMBER OF ALL PERSONNEL ON THE SITE. FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY RESULT IN PERSONNEL BEING ESCORTED OFF THE SITE.

UNDERGROUND UTILITIES:
UNDERGROUND UTILITY LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES. THE CONTRACTOR SHALL CONFIRM THAT UTILITY LOCATE SERVICES HAVE BEEN COMPLETED BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING IS DEMOLISHED, DRILLED, OR CUT, REGARDLESS OF THE LOCATION ON THE PROPERTY. SOME UTILITIES MAY NOT BE PUBLICLY OWNED AND MAINTAINED, THEREFORE IT WILL BE NECESSARY FOR THE CONTRACTOR TO LOCATE IN ADVANCE OF ANY EXCAVATIONS CONTRACTOR SHALL HAVE SUBSURFACE UTILITY INVESTIGATION PERFORMED IN ADVANCE OF ANY EXCAVATIONS IN AREAS POSSIBLY CONTAINING FIBER OR OTHER TELCO SERVICES ENTRANCES AND AREAS NOT COVERED BY THE PUBLIC UTILITY LOCATING SERVICE, GROUND PENETRATING RADAR IS THE PREFERRED SUBSURFACE UTILITY LOCATING METHOD TO BE USED. RESULTS OF THIS SUBSURFACE EXPLORATION SHALL BE SUBMITTED TO OWNER AND THE A/E FOR REVIEW AND APPROVAL PRIOR TO ANY EXCAVATIONS. HAND EXCAVATION SHALL BE PERFORMED IN THE AREAS WITHIN 10 FEET HORIZONTALLY IN ANY DIRECTION FROM POSSIBLE TELCO ENTRANCE UNDERGROUND UTILITIES. HAND EXCHANGE SHALL ALSO BE PERFORMED ELSEWHERE AS DIRECTED BY THE A/E AND/OR OWNER

HAZARDOUS MATERIALS- CALL VZW ENVIRONMENTAL COMPLIANCE HOTLINE (800)-386-9639 IF THE CONTRACTOR UNCOVERS OR ENCOUNTERS ANY MATERIAL THAT IS BELIEVED TO BE HAZARDOUS IN NATURE (ASSESTOS LEAD PAINT SPILLED CHEMICALS OF OTHERWISE). THE CONTRACTOR SHALL NOTIFY OWNER (ASSESTOS), LEAD FAIRT, STILLED CHEMICADS, OR CHEMINED; THE CONTRACTOR SHALL NOTIFF OWNER. IMMEDIATELY AND SHALL NOT ABATE, REMOVE, SAMPLE, DISTURB, OR OTHERWISE HANDLE THE MATERIAL WITHOUT WRITTEN AUTHORIZATION FROM OWNER. THE UNCONTROLLED RELEASE OF ANY SUCH SUBSTANCE SHALL ALSO BE REPORTED TO THE LOCAL FIRE DEPARTMENT BY THE CONTRACTOR. DISPOSAL OF ANY SUCH MATERIAL SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, AND DOCUMENTATION OF DISPOSAL SHALL BE PROVIDED BY THE CONTRACTOR TO THE OWNER REPRESENTATIVE.

19. ASBESTOS: CONTAINING MATERIALS (ACM)
THE CONTRACTOR SHALL NOT USE ANY MATERIAL THAT CONTAINS ASBESTOS (ACM) FOR ANY APPLICATION ON THIS PROJECT.

20. SITE SURVEY AND HELD-ENCOUNTERED OBSTACLES
NETHER THE AJE NOR OWNER ARE GUARANTEENG THE ACCURACY OF THE INFORMATION DEPICTED IN THESE
DOCUMENTS, THERE ARE NO IMPHIED WARRANTIES ASSOCIATED WITH THESE DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY CONDITIONS PRIOR TO BIDDING THE WORK. ALL DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SHOW ALL DETAILS REQUIRED TO CLEAR FIELD-ENCOUNTERED OBSTRUCTIONS. WHERE MINOR DEVIATIONS IN SYSTEMS ARE REQUIRED DURING CONSTRUCTION THE CONTRACTOR SHALL MAKE SUCH ACCOMMODATIONS AT NO ADDITIONAL COST TO OWNER, THE CONTRACTOR SHALL ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE BID AND PRIOR TO PERFORMING THE WORK.

SCALE OF DRAWINGS

MEASUREMENTS AND/OR LOCATIONS SHALL NOT BE SCALED FROM THE CONSTRUCTION DRAWINGS CONTRACTORS SHALL USE POSTED DIMENSIONS ONLY, CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING IF ANY DIMENSION(S) ARE IN QUESTION.

22. PROJECT RECORD DRAWINGS

PROJECT RECORD DRAWINGS SHALL BE UPDATED ON A DAILY BASIS IN ACCORDANCE WITH THE DIVISION SPECIFICATIONS.

<u>WORK HOURS</u>
REGULAR WORK HOURS ARE FROM 7:00 AM TO 5:00 PM. THIS MAY BE ADJUSTED TO ACCOMMODATE IRREGULAR CIRCUMSTANCES BUT REQUIRES THE APPROVAL OF OWNER, MAINTENANCE-WINDOW WORK HOURS ARE 12:00 AM TO 5:00 AM, LOCAL TIME. THE CONTRACTOR SHALL DETERMINE ANY WORK-HOUR RESTRICTIONS AFFECTING THE SCOPE OF WORK AND ALL COSTS SHALL BE INCLUDED IN THE BID.

24. QUALITY OF WORK CONTRACTOR SHALL PERFORM ALL WORK AND INSTALL ALL COMPONENTS IN A PROFESSIONAL AND WORKMANIJKE MANNER, ALL FINISH WORK SHALL BE TRUE LEVEL AND PLUMB, ALL JOINTS SHALL BE TIGHT AND CLEAN

CONTRACTOR SHALL PROVIDE DETAILS OF ITS WARRANTY POLICIES AND PROCEDURES INCLUDING, BUT NOT LIMITED TO A CLEAR STATEMENT OF THE DURATION AND CONDITIONS OF WARRANTIES OF SUPPLIER'S SUPPLIERS CONTRACTOR TO PROVIDE A ONE-YEAR FITNESS AND SUITABILITY WARRANTY FOR ALL WORK, THE PERIOD TO BEGIN WITH FINAL ACCEPTANCE BY THE OWNER REPRESENTATIVE.

26. DRILLING AND CUTING-FIRE PROTECTION SYSTEM, AND DUST/WATER CONTROL. OWNER SHALL BE NOTIFIED BEFORE BEGINNING ANY DRILLING OR CUTTING OF CONCRETE, GYPSUM BOARD, OR OTHER DUST-PRODUCING MATERIALS, ALL EQUIPMENT IN AFFECTED ARES SHALL BE PROTECTED TO THE SATISFACTION OF THAT OWNER REPRESENTATIVE. PRIOR TO ANY DUST-PRODUCING WORK, THE CONTRACTOR SHALL DISARM THE FIRE-DETECTION SYSTEM(S) AND COVER ALL SMOKE DETECTORS WITHIN FITTY (S0) FEET OF THE WORK AREA AND ENSURE THAT THE SYSTEM IS RETURNED TO NORMAL OPERATION AT THE END OF EACH WORK DAY, ALL GAS SUPPRESSION DUMPED AS A RESULT OF THE CONTRACTOR NOT FOLLOWING THIS REQUIREMENT WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE, ALL SUCH WORK LOCATIONS SHALL BE APPROVED IN ADVANCE BY OWNER. WHEN DRILLING OR CUTTING IS REQUIRED IN AN AREA WITH TELECOMMUNICATIONS EQUIPMENT INSTALLED, A HEPA VACUUM CLEANER SHALL BE EMPLOYED TO CONTAIN DUST AND PARTICULATE MATTER DURING THE OPERATION. ALL AREAS ABOVE THE CELLING SHALL BE VACUUMED CLEAN AFTER THE WORK. IS COMPLETE. ALL VACUUM CLEANERS SHALL BE APPROVED FOR USE BY THE OWNER REPRESENTATIVE, WHEN WET CORING, ALL PRECAUTIONS SHALL BE TAKEN TO CONFINE WATER TO WORK AREA.

PROJECT GENERAL NOTES CONTINUED:

27. FLOORING/FLOOR

ALL CUTTING AND DRILLING OF ACCESS FLOOR SHALL OCCUR IN AREAS DESIGNATED BY THE OWNER REPRESENTATIVE, FOR WORK REQUIRING THE REMOVAL OF FLOOR TILES, THE CONTRACTOR SHALL PROVIDE CON BARRIERS AROUND ALL FLOOR OPENINGS FOR THE DURATION OF THESE ACTIVITIES. ADDITIONAL HAZARD LIGHTING SHALL ALSO BE PROVIDED, IF NECESSARY, THAT SUFFICIENTLY ILLUMINATES THE AREA AT ALL TIMES. THESE BARRIERS AND LIGHTING SHALL BE LEFT IN PLACE UNTIL THE PENETRATIONS ARE CLOSED FLUSH, REMOVAL OF FLOOR TILES AGAINST A WALL OR DOOR JAMB SHALL NOT BE DONE WITHOUT THE PERMISSION OF THE OWNER REPRESENTATIVE. UPON COMPLETION OF THE PROJECT, ALL FLOOR AREAS SHALL BE COMPLETELY CLEANED TO THE SATISFACTION OF THE OWNER REPRESENTATIVE. ALL METAL SHAVINGS SHALL BE COMPLETELY REMOVED from the tile and all sharp or rough edges filled smooth, cut/drilled floor tiles shall have their EXPOSED CONCRETE AND METAL EDGES SEALED WITH TWO COATS OF CLEAR SPRAY SEALANT PRIOR TO RE-INSTALLATION TO PREVENT FUTURE "CONCRETE DUSTING" AND CORROSION. SPRAY SEALANT SHALL BE APPLIED IN THE DESIGNATED AREAS. ALL RAISED FLOOR CUTS MUST BE LINED WITH THE APPROPRIATE GROMMET OR PLASTIC TRIM TO ENSURE THAT NO ROUGH EDGES ARE EXPOSED.

OWNER-FURNISHED EQUIPMENT

MAJOR EQUIPMENT IDENTIFIED IN THE CONSTRUCTION DRAWINGS FOR THIS PROJECT WILL BE FURNISHED BY OWNER FOR STORAGE AND INSTALLATION BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE INDICATING ALL REQUIRED OWNER-FURNISHED EQUIPMENT AND DELIVERY DATE REQUIRED TO CONFORM WITH THE CRITICAL PATH SCHEDULE. OWNER WILL CONTACT THEIR VENDORS AND RESPOND TO THE CONTRACTOR LIST. OWNER-FURNISHED EQUIPMENT WILL BE DELIVERED TO THE FACILITY. LINLES OTHER ARRANGEMENTS HAVE BEEN MADE. THE CONTRACTOR, IN COORDINATION WITH THE OWNER REPRESENTATIVE SHALL INSPECT FACH PIECE OF FOLIPMENT, OWNER WILL NOT BE PROVIDING STORAGE SPACE WITHIN THE FACILITY FOR USE BY THE CONTRACTOR UNLESS PRIOR ARRANGEMENTS ARE MADE AND APPROVED IT WRITING. REFER TO SHEET GO11 FOR DETAILS.

MATERIALS AND EQUIPMENT

ALL MATERIALS AND EQUIPMENT USED IN THIS INSTALLATION SHALL BE NEW, UNLESS OTHERWISE AUTHORIZED BY THE OWNER REPRESENTATIVE, AND HAVE THE APPROPRIATE ULLISTING AND FACTORY MUTUAL (FM) APPROVAL ALL MATERIALS SHALL COMPLY WITH ALL APPLICABLE LOCAL AND NATIONAL CODES, STANDARDS, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

30. SAFETY AND DATA SHEETS (SDS DOCUMENTATION)

THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN ALL MSDS AND RELATED INFORMATION FOR ALL MATERIAL AND EQUIPMENT DELIVERED AND/OR STORED AT THE SITE. THE MSDS SHALL IDENTIFY THE LOCATION OF THE PRODUCT WITHIN THE FACILITY AND SHALL BE MADE AVAILABLE FOR REVIEW BY ANY PARTY FOR THE DURATION OF THE PROJECT. WALL-MOUNTED MSDS HOLDERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR THE MSDS AND RELATED INFORMATION, INCLUDING ROOM NUMBER LOCATIONS, SHALL BE INCLUDED IN THE PROJECT MANUALS TO BE DELIVERED BEFORE FINAL APPLICATION FOR PAYMENT.

FIELD OFFICE

OWNER WILL NOT BE PROVIDING SPACE WITHIN THE FACILITY FOR A FIELD OFFICE OR A JOB-SITE TRAILER,

32. DELIVERIES

OWNER WILL NOT RECEIVE ANY TYPE OF DELIVERY ON THE CONTRACTOR'S BEHALF UNLESS PRIOR ARRANGEMENTS ARE MADE WITH OWNER. THE CONTRACTOR SHALL BE PRESENT TO RECEIVE PROJECT DELIVERIES. THE CONTRACTOR SHALL NOTIFY THE SITE RECEIVING AGENT AT LEAST ONE (1) DAY IN ADVANCE TO SCHEDULE ACTIVITIES ON THE LOADING DOCK. OWNER DELIVERIES TAKE PRIORITY AT ALL OWNER LOADING DOCKS. ALL SHIPPING COSTS ARE THE RESPONSIBILITY OF THE CONTRACTOR, WITH THE EXCEPTION OF OWNER-FURNISHED EQUIPMENT.

OWNER WILL NOT BE PROVIDING SPACE WITHIN THIS FACILITY FOR USE BY THE CONTRACTOR AS STORAGE AND/OR STAGING UNLESS PRIOR ARRANGEMENTS ARE MADE AND APPROVED IN WRITING. THIS WRITTEN APPROVAL SHALL INCLUDE A CLEAR DESCRIPTION IDENTIFYING THE LIMITS OF THE AREA(S) ALLOWED. THE CONTRACTOR SHALL SECURE WRITTEN APPROVAL IN ADVANCE FOR NECESSARY STORAGE OUTSIDE THE OWNER LEASEHOLD OR OWNED PREMISES FROM THE OWNER OF THE PROPERTY IN QUESTION. THE CONTRACTOR SHALL BE COVERED WITH UL LISTED FIRE RETARDANT TARPAULINS DURING NON-WORKING PERIODS.

34. CLEANLINESS

WORK AREAS ARE TO BE KEPT CLEAN AT ALL TIMES.

35. TRASH AND REFUSE DISPOSAL

THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL PROJECT-RELATED TRASH, WASTE, AND/OR GARBAGE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A DUMPSTER FOR THE DURATION OF THE PROJECT IF REQUIRED. COORDINATE WITH VERIZON FOR THE DUMPSTER LOCATION. THE DURATION OF THE PROJECT IN REQUIRED, COORDINATE WITH VERICON FOR THE DURATER TO CATION. THE DURATER TO CATION. THE DURATER TO CONSTRUCT ON THE STORY OF THE STORY

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36. SALVAGE ITEMS

THE FOLLOWING ITEMS SHALL BE SALVAGED BY THE CONTRACTOR

A. ANY ITEMS AS FIELD DIRECTED BY OWNER.





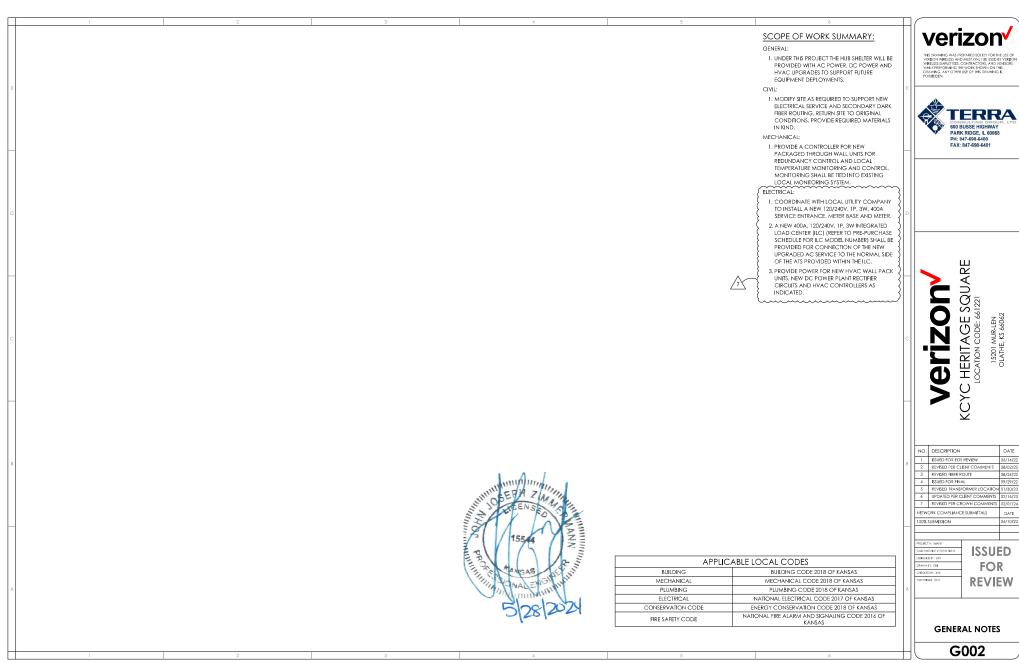


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I		NO.	DESCRIPTION	DATE
ı		1	ISSUED FOR EOS REVIEW	06/14/22
ı	Ш	2	REVISED PER CLIENT COMMENTS	08/02/22
ı		3	REVISED FIBER ROUTE	08/24/22
ı		4	ISSUED FOR FINAL	09/29/22
ı	Ш	5	REVISED TRANSFORMER LOCATION	01/30/23
ı		6	UPDATED PER CLIENT COMMENTS	02/16/23
ı	Ш	7	REVISED PER CROWN COMMENTS	02/07/24
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GENERAL NOTES

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Ш	3	REVISED FIBER ROUTE	08/24/2
Ш	4	ISSUED FOR FINAL	09/29/2
Ш	5	REVISED TRANSFORMER LOCATION	01/30/2
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Ш	7	REVISED PER CROWN COMMENTS	02/07/2
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	ELOW ARE PROVIDED UPON REQUEST. ANY PUBLIC CODES LISTED ARE NOT PF ADILY AVAILABLE. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARDS. CELL GENERAL	
NADV1220	SEPARATION CLEARANCE ISSUES FOR LIQUID PROPANE AS STORAGE	6/14/2012
NC-EOS-ST-09-0001	PHYSICAL SECURITY STANDARDS FOR CELL SITES	11/30/200
NSTD1500	CELL SITE CODE COMPLIANCE	8/1/2015
NSTD2020	CELL SITE SHELTER STANDARD	8/1/2015
NSTD2030	CELL SHELTER MAINTENANCE & INSPECTION STANDARD	2/1/2016
NSTD305	CELL SITE SHELTER SUPPLIER EQUIPMENT INSTALLATION STANDARD	8/1/2015
OTHR135101	FACILITY AUDIT PROCEDURE FOR LIQUID PETROLEUM (PROPANE) FUELED SYSTEMS	6/1/2012
	CELL - MECHANICAL	
NSTD1000	CELL SITE HVAC STANDARD	2/1/2016
NDIR700C	CELL SITE HVAC REPLACEMENTS & INSTALLATIONS - CONTRACTOR EDITION	5/15/2015
OTHR238113	CELL SITE HVAC SPECIFICATION	2/1/2012
OTHR238114	WALL PACK UNIT REPLACEMENT	8/1/2015
OTHR238115		2/1/2016
	CELL SITE HVAC MAINTENANCE	
OTHR238116	CELL SITE HVAC PRE-INSPECTION & INSTALLATION CHECKLIST	10/9/2012
	CELL - AC POWER, DC POWER, & GROUNDING	
NSTD1517	AC POWER AND STANDBY POWER AT CELL SITES STANDARD	2/8/2016
	CELL - TOWER INSPECTIONS	
NSTD444	PERIODIC TOWER INSPECTION STANDARD	8/1/2015
OTHR444	TOWER INSPECTION REPORT TEMPLATE	8/1/2015
	MSC - GENERAL CONSTRUCTION & PLANNING STANDARDS	
NSTD388	ARCHITECTURAL SYSTEMS IN SWITCHING CENTER DESIGN	8/1/2015
NSTD389	STRUCTURAL SYSTEMS IN SWITCHING CENTER DESIGN	8/1/2015
N31D309		0/1/2013
	MECHANICAL DESIGN STANDARDS	
NSTD385	MECHANICAL SYSTEMS IN SWITCHING FACILITY DESIGN	2/1/2016
NSDT398	BUILDING AUTOMATION SYSTEMS IN NETWORK FACILITY DESIGN	8/1/2015
NSTD391	PLUMBING SYSTEMS IN SWITCHING CENTER DESIGN	8/1/2015
NSTD410	TEMPORARY HVAC INSTALLATIONS IN SWITCHING DESIGN	8/1/2014
	NETWORK EQUIPMENT AND INSTALLATION STANDARDS	
NSTD119	NETWORK INSTALLATION STANDARDS	8/1/2015
NADV1505	IMPACT OF DUST, DIRT, & AIR POLLUTANTS ON ELECTRONIC EQUIPMENT	11/15/200
INALI V 1303	FIRE PROTECTION STANDARDS	11/13/200
NSTD169	FIRE PROTECTION SYSTEMS IN NETWORK FACILITY DESIGN	2/1/2016
	COMMISSIONING STANDARDS	
NSTD169	POWER SYSTEM TEST REQUIREMENTS	2/1/2016
NSTD401	COMMISSIONING STANDARDS FOR NETWORK EQUIPMENT LOCATIONS	2/1/2016
	AC POWER STANDARDS	
NSTD516	AC ELECTRICAL SYSTEMS IN NETWORK EQUIPMENT LOCATIONS	2/1/2016
NSTD517	AC STANDBY POWER SYSTEMS IN NETWORK EQUIPMENT LOCATION	
		2/1/2016
NSTD518	TASK LIGHTING FOR NETWORK FOLIRMENT LOCATIONS	
NSTD518	TASK LIGHTING FOR NETWORK EQUIPMENT LOCATIONS	8/1/2012
NSTD518 OTHR361	VZW ENERGIZED ELECTRICAL WORK PERMIT	2/1/2016 8/1/2012 8/1/2010
OTHR361	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS	8/1/2012 8/1/2010
OTHR361 NSTD397	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN	8/1/2012 8/1/2010 2/1/2016
OTHR361	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS	8/1/2012 8/1/2010
OTHR361 NSTD397	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN	8/1/2012 8/1/2010 2/1/2016
OTHR361 NSTD397	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWOORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS	8/1/2012 8/1/2010 2/1/2016 2/1/2016
OTHR361 NSTD397 NSTD400 NSTD30	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATTERY INSTALLATION AND MAINTENANCE	8/1/2012 8/1/2010 2/1/2016 2/1/2016
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATTERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION SCOPE OF SERVICES	8/1/2012 8/1/2010 2/1/2016 2/1/2016 2/1/2016 3/19/201-
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30B	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATTERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION AND POED OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES	8/1/2012 8/1/2016 2/1/2016 2/1/2016 3/19/201- 3/14/201-
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30B OTHR10569	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IS SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATTERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES	8/1/2010 8/1/2010 2/1/2016 2/1/2016 2/1/2016 3/19/201- 3/14/201- 8/1/2013
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30B OTHR10569 NSTD33	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATIERY INSTALLATION AND MAINTENANCE BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES MATTERY MAINTENANCE SCOPE OF SERVICES MATTERY MAINTENANCE SCOPE OF SERVICES MATTERY INSTALLATION AND INITIALIZATION PRESENTATION MOBILE SWITCHING CENTER GROUNDING SYSTEMS	8/1/2010 8/1/2010 2/1/2016 2/1/2016 2/1/2016 3/19/201- 3/14/201- 8/1/2013 2/1/2014
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30B OTHR10569 NSTD33 NSTD34	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATTERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY INSTALLATION AND INITIALIZATION PRESENTATION MOBILE SWITCHING CENTER GROUNDING SYSTEMS AC SERVICE GROUNDING - ENGINEERING APPLICATIONS	8/1/2012 8/1/2010 2/1/2016 2/1/2016 3/19/201- 3/14/201- 8/1/2013 2/1/2014 2/1/2011
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30B OTHR10569 NSTD33 NSTD34	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATIERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION AND MAINTENANCE BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES MAINTENANCE SCOPE OF SERVICES ACTION AND INITIALIZATION PRESENTATION MOBILE SWITCHING CENTER GROUNDING SYSTEMS AC SERVICE GROUNDING - ENGINEERING APPLICATIONS MOBILE SWITCHING CENTER GROUNDING OF TRANSMISSION EQUIPMENT	8/1/2012 8/1/2010 2/1/2016 2/1/2016 3/19/201- 3/14/201- 8/1/2013 2/1/2014 2/1/2011
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30B OTHR10569 NSTD33 NSTD34 NSTD34	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATTERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY INSTALLATION AND INITIALIZATION PRESENTATION MOBILE SWITCHING CENTER GROUNDING SYSTEMS AC SERVICE GROUNDING - ENGINEERING APPLICATIONS	8/1/2012 8/1/2010 2/1/2016 2/1/2016 2/1/2016 3/19/201- 3/14/201- 8/1/2013 2/1/2014 8/1/2013 8/20/200
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30B OTHR10569 NSTD33	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATTERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION AND MAINTENANCE BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY INSTALLATION AND INITIALIZATION PRESENTATION MOBILE SWITCHING CENTER GROUNDING SYSTEMS AC SERVICE GROUNDING - ENGINEERING APPLICATIONS MOBILE SWITCHING CENTER GROUNDING OF TRANSMISSION EQUIPMENT INSPECTING MOBILE SWITCHING CENTERS, MICROWAVE RADIO SITES,	8/1/2012 8/1/2016 2/1/2016 2/1/2016 2/1/2016 3/19/2014 3/14/2014 8/1/2013 2/1/2014 8/1/2013 2/1/2014 8/1/2013
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30B OTHR30B NSTD33 NSTD34 NSTD34 NSTD35 NSTD36 NSTD36 NSTD36	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IS SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATTERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES CALLED STANDARD MITIALIZATION PRESENTATION MOBILE SWITCHING CENTER GROUNDING SYSTEMS AC SERVICE GROUNDING FORGINEERING APPLICATIONS MOBILE SWITCHING CENTER GROUNDING OF TRANSMISSION EQUIPMENT INSPECTING MOBILE SWITCHING CENTERS, MICROWAVE RADIO SITES, AND CELL SITES FOR GROUNDING AND ELEC, PROTECTION	8/1/2012 8/1/2016 2/1/2016 2/1/2016 3/19/201 3/14/201 8/1/2013 2/1/2014 8/20/200 2/1/2013 12/6/2003
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30B OTHR30B OTHR30B NSTD33 NSTD34 NSTD34 NSTD35	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATIERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION AND MAINTENANCE BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES ANTERY INSTALLATION AND INITIALIZATION PRESENTATION MOBILE SWITCHING CENTER GROUNDING SYSTEMS AC SERVICE GROUNDING - ENGINEERING APPLICATIONS MOBILE SWITCHING CENTER GROUNDING OF TRANSMISSION EQUIPMENT INSPECTING MOBILE SWITCHING CENTERS, MICROWAVE RADIO SITES, AND CELL SITES FOR GROUNDING AND ELEC, PROTECTION ENGINEERING FUNDAMENTALS OF ELECTRODE GROUND MEASUREMENTS FUNDAMENTALS OF ELECTRODE GROUND MEASUREMENTS ILCHTHING PROTECTION ASSESSMENT RISK ASSESSMENT GROUNDERS.	8/1/2012 8/1/2010 2/1/2016 2/1/2016 2/1/2016 3/19/2014 3/14/2014 8/1/2013 2/1/2014
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30A OTHR10569 NSTD33 NSTD34 NSTD35 NSTD34 NSTD35 NSTD36 NSTD36 NSTD37 NSTD36 NSTD37 NSTD36 NSTD37 NSTD37 NSTD37 NSTD38	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATTERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION AND MAINTENANCE BATTERY MAINTENANCE SCOPE OF SERVICES ATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES ATTERY MAINTENANCE SCOPE OF SERVICES BATTERY INSTALLATION AND INITIALIZATION PRESENTATION MOBILE SWITCHING CENTER GROUNDING SYSTEMS AC SERVICE GROUNDING - ENGINEERING APPLICATIONS MOBILE SWITCHING CENTER GROUNDING OF TRANSMISSION EQUIPMENT INSPECTING MOBILE SWITCHING CENTERS, MICROWAVE RADIO SITES, AND CELL SITES FOR GROUNDING AND ELEC. PROTECTION ENGINEERING FUNDAMENTALS OF ELECTRODE GROUND MEASUREMENTS FUNDAMENTALS OF CONSIDERATIONS	8/1/2012 8/1/2016 2/1/2016 2/1/2016 2/1/2016 3/19/201 3/19/201 3/19/201 3/1/2018 8/1/2013 2/1/2014 2/1/2013 12/6/2003 8/2/2008
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OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30B OTHR30B OTHR10589 NSTD33 NSTD34 NSTD34 NSTD36 NSTD34 NSTD41 NSTD47 NSTD47 NSTD47 NSTD47	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IN SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATIERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION AND MAINTENANCE BATTERY MAINTENANCE SCOPE OF SERVICES ATTERY MAINTENANCE SCOPE OF SERVICES ANTERY MAINTENANCE SCOPE OF SERVICES AND SELVENT OF SERVICES AND SERVICES SERVICES AND SERVICES AND SERVICES OF SERVICES AND	8/1/2012 8/1/2016 2/1/2016 2/1/2016 2/1/2016 2/1/2016 3/19/201- 8/1/2018 2/1/2018 8/20/2009 2/1/2018 8/2/2008 2/1/2018 2/1/2018 2/1/2018 2/1/2018 2/1/2018 2/1/2018
OTHR361 NSTD397 NSTD400 NSTD30 OTHR30A OTHR30B OTHR0569 NSTD33 NSTD34 NSTD34 NSTD34 NSTD35 NSTD36 NSTD36 NSTD36 NSTD37 NSTD38	VZW ENERGIZED ELECTRICAL WORK PERMIT NETWORK SECURITY STANDARDS SECURITY SYSTEMS IS SWITCHING CENTER DESIGN MAINTENANCE STANDARDS FOR SWITCHING CENTERS NETWORK SECURITY STANDARDS BATTERY INSTALLATION AND MAINTENANCE BATTERY INSTALLATION AND MAINTENANCE BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES BATTERY MAINTENANCE SCOPE OF SERVICES AC SERVICE GROUNDING - ENGINEERING APPLICATIONS MOBILE SWITCHING CENTER GROUNDING OF TRANSMISSION EQUIPMENT INSPECTING MOBILE SWITCHING CENTERS., MICROWAVE RADIO SITES, AND CELL SITES FOR GROUNDING AND ELEC, PROTECTION ENGINEERING FUNDAMENTALS OF ELECTRODE GROUND MEASUREMENTS FUNDAMENTALS OF ELECTRODE GROUND MEASUREMENTS LUGHTING PROTECTION ASSESSMENT RISK ASSESSMENT GUIDELINES - ENGINEERING CONDERANT DESIGN	8/1/2012 8/1/2016 2/1/2016 2/1/2016 2/1/2016 3/19/201 3/14/2013 3/1/2013

VERIZON STANDARDS

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	VERIZON STANDARDS CONTINUED	
	PROJECT MANAGEMENT - MISCELLANEOUS DOCS/ APPROVALS	
OTHR42164	RFP PROCESS - SCOPE MATRIX PARTICIPANTS (COMPANION TO NPRC809)	2/1/2016
	RUCTION GC OR CM - PM SUPPORT	
NPRC901	GC/CM INVOICE PROCEDURE	2/1/2013
OTHR901	VZW BILLING FORMS	6/3/2014
OTHR903B	CHANGE ORDER - CONTRACTOR CHECK UST	2/1/2014
OTHR903C	POTENTIAL CHANGE ORDER - REVIEW STATUS	2/1/2014
	AGREEMENT TEMPLATES	
NSTD387	CIVIL SYSTEMS IN SWITCHING CENTER DESIGN	11/6/2009
	BIDDING, CONSTRUCTION & PROJECT APPROVALS	
1. MUST BE USED	ON ALL MSC DESIGN PROJECTS AFTER 02/03/2006	
	Y BE REFERENCED FOR NETWORK EQUIPMENT CENTERS	
3. SHOULD ONL	Y BE DISTRIBUTED TO FIRMS CONDUCTING THIS SCOPE OF WORK	
NFPA 101	LIFE SAFETY CODE	LATEST EDITION
NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY	LATEST EDITION
NFPA 1018	CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES	LATEST EDITION
NFPA 110	STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS	LATEST EDITION
NFPA 203	GUIDE ON ROOF COVERINGS AND ROOF DECK CONSTRUCTIONS	LATEST EDITION
NFPA 214	STANDARD ON WATER-COOLING TOWERS	LATEST EDITION
NFPA 220	STANDARD ON TYPES OF BUILDING CONSTRUCTION	LATEST EDITION
NFPA 221	STANDARD FOR FIRE WALLS AND FIRE BARRIER WALLS	LATEST EDITION
NFPA 230	STANDARD FOR THE FIRE PROTECTION OF STORAGE	LATEST EDITION
NFPA 241	STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERNATION, AND	LATEST EDITION
11171211	DEMOLITION OPERATIONS	D TIEST ESTITION
NFPA 262	STANDARD METHOD OF TEST FOR FLAME TRAVEL AND SMOKE OF WIRES AND CABLES FOR USE IN AIR-HANDLING SPACES	LATEST EDITION
NFPA 329	RP FOR HANDLING RELEASES OF FLAMMABLE AND COMBUSTIBLE LIQUIDS AND GASES	LATEST EDITION
NFPA 551	GUIDE FOR THE EVALUATION OF FIRE RISK ASSESSMENTS	LATEST EDITION
NFPA 730	GUIDE FOR PREMISES SECURITY	LATEST EDITION
NFPA 731	INSTALLATION OF ELECTRONIC SECURITY SYSTEMS	LATEST EDITION
NFPA 780	STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS	LATEST EDITION
NFPA 900	BUILDING ENERGY CODE	LATEST EDITION
NFPA 1600	STANDARD ON DISASTER/EMERGENCY MANAGEMENT AND BUSINESS CONTINUITY PROGRAMS	LATEST EDITION
NFPA 1620	RECOMMENDED PRACTICE FOR PRE-INCIDENT PLANNING	LATEST EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	LATEST EDITION
NFPA 5000	BUILDING CONSTRUCTION AND SAFETY CODE	LATEST EDITION
ASCE 7-02	MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES	LATEST EDITION
ACI 318-03	BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE	LATEST EDITION
UL STDS	ALL REFERENCED UL STANDARDS IN THE IBC	LATEST EDITION
ASTM STDS	ALL REFERENCED ASTM STANDARDS IN THE IBC	LATEST EDITION
ADA GUIDELINES	ACCESSIBILITY CODE FOR BUILDINGS AND FACILITIES	LATEST EDITION
ASHRAE 90.1	ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RES. BUILDINGS	LATEST EDITION
ASHRAE 62.1	VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY	LATEST EDITION
ASHRAE 111	PRACTICES FOR MEASUREMENT, TESTING, ADJUSTING, BALANCING OF BUILDING HVAC SYSTEMS	LATEST EDITION
ASHRAE 127	METHOD OF TESTING FOR RATING COMPUTER AND DATA PROCESSING ROOM UNITARY AIR-CONDITIONERS	LATEST EDITION
ASHRAE 135	BACNET - A DATA COMMUNICATION PROTOCOL FOR BUILDING	LATEST EDITION
ASHRAE	AUTOMATION AND CONTROL NETWORKS THE COMMISSIONING PROCESS	LATEST EDITION
GUIDELINE 0 ASHRAE	THE HVAC COMMISSIONING PROCESS	
GUIDELINE 1 ASHRAE	PREPARATION OF OPERATING AND MAINTENANCE DOCUMENTATION	LATEST EDITION
GUIDELINE 4 ASHRAE	FOR BUILDING SYSTEMS	LATEST EDITION
GUIDELINE 13	SPECIFYING DIRECT DIGITAL CONTROL SYSTEM	LATEST EDITION
ASHRAE	THERMAL GUIDELINES FOR DATA PROCESSING ENVIRONMENTS	LATEST EDITION
ASHRAE	DATACOM EQUIPMENT POWER TRENDS AND COOLING APPLICATIONS	LATEST EDITION
SMACNA	FIRE, SMOKE AND RADIATION DAMPER INSTAL. GUIDE FOR HVAC SYSTEMS	LATEST EDITION
SMACNA	GUIDELINES FOR ROOF MOUNTED OUTDOOR AIR-CONDITIONER INSTAL.	LATEST EDITION
	SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS	LATEST EDITION

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PORTABLE GENERATOR			OWNER		CONTRACTOR
DC POWER PLANT		OWNER		CONTRACTOR	CONTRACTOR
BATTERY RACKS & CONTAINMENT		OWNER		CONTRACTOR	CONTRACTOR
EMERGENCY EYE WASH STATION		CATINGE	CONTRACTOR		CONTRACTOR
FIBER CONDUIT & VAULTS			CONTRACTOR		CONTRACTOR
FIBER TRAY		OWNER		CONTRACTOR	OWNER
CABLING			CONTRACTOR		OWNER
WATER, SEWER, STORM, A/C ELECTRIC			CONTRACTOR		CONTRACTOR
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CONTRACTOR EQUIPMENT TESTING/COMMISSIONING (HVAC, ELECTRICAL, ETC.)			CONTRACTOR		CONTRACTOR
NOTES: 1. FURNISH: PURCHASE AND SHIP ITEM 2. PROVIDE: PURCHASE, SHIP AND INST 3. INSTALL: INSTALL FURNISHED ITEM.	TO SITE.	и.			
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VERIZON STANDARDS

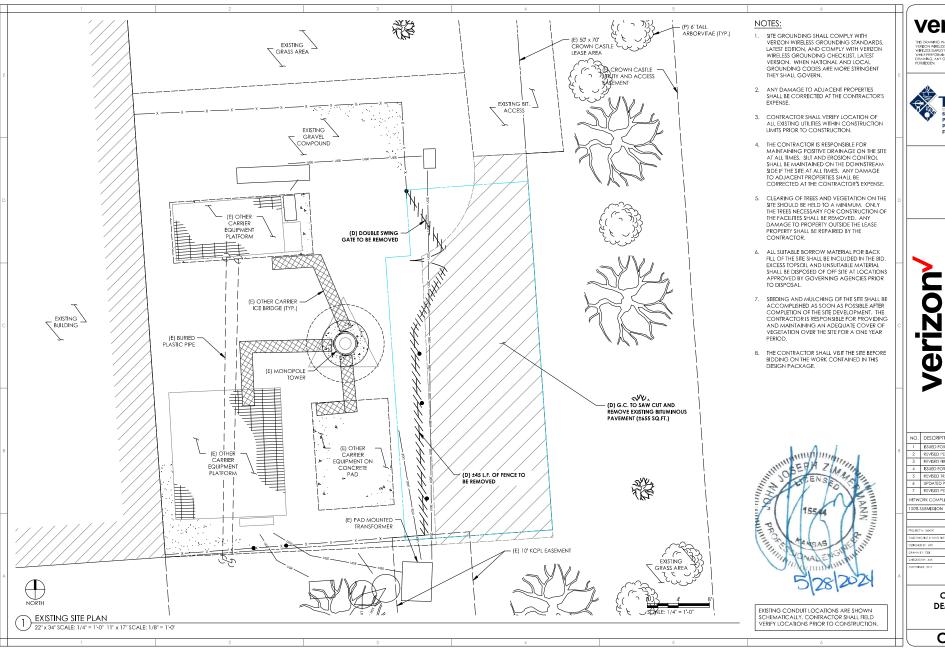
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#### GENERAL NOTES: EXCAVATION & GRADING NOTES (IF APPLICABLE): 1. THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING 1. ALL CUT AND FILL SLOPES SHALL BE 3:1 MAXIMUM. WORK, ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK, ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN 2. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUND WATER. ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED IF REQUIRED. 2. If is the intention of these drawings to show the completed installation. The contractor shall be responsible for all temporary bracing shoring, files, form work, etc. In accordance with 3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH. THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH. ALL NATIONAL, STATE AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES. AND WITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BI FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. 3. THE CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED 4 ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH FITHER MECHANICALLY COMPACTED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHOD NEEDED FOR PROPER PERFORMANCE OF THE WORK. GRANULAR MATERIAL OF CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS 600 BUSSE HIGHWAY PARK RIDGE, IL 60068 PH: 847-698-6400 FAX: 847-698-6401 4. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE COMPILING CONCRETE THICKNESS 5. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE AND BEFORE BACK RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY FILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH. CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT. 6. BACK FILL SHALL BE - APPROVED MATERIALS CONSISTING OF FARTH LOAM SANDY CLAY SAND, GRAVEL OR SOFT SHALES 5. SITE GROUNDING SHALL COMPLY WITH VERIZON WIRELESS GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON WIRELESS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL - FREE FROM CLODS OR STONES OVER 2 1/2" MAXIMUM DIMENSIONS; GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN - IN LAYERS AND COMPACTED 6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION 7. SITE FILL MATERIAL AND FOUNDATION BACK FILL SHALL BE PLACED IN LAYERS, MAXIMUM 6" DEEP BEFORE INSTALLATION. IF TEMPORARY LIGHTING AND MARKING IS REQUIRED BY THE FEDERAL AVIATION COMPACTION. EACH LAYER SHALL BE SPRINKLED IF REQUIRED AND COMPACTED BY HAND OPERATED OR ADMINISTRATION (FAA), IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND MACHINE TAMPERS TO 9.5% OF MAXIMUM DENSITY, AT THE OPTIMUM MOISTURE CONTENT 2% AS DETERMINED NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM. BY ASTM DESIGNATION D-698, UNLESS OTHERWISE APPROVED. SUCH BACK FILL SHALL NOT BE PLACED BEFORE 3 DAYS AFTER PLACEMENT OF CONCRETE. 7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE FOUNDATION AREA SHALL BE GRADED TO PROVIDE WATER RUNGER AND PREVENT WATER FROM THE CODE REQUIREMENTS STANDING, THE FINAL GRADE SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE FOUNDATION AND SHALL QUARE THEN BE COVERED WITH 4" DEEP COMPACTED STONE OR GRAVEL 8. ANY DAMAGE TO ADJACENT PROPERTIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. 9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL CITY, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS 9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 24 HOURS ON NOTICE SHALL BE AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE ō GIVEN AND THE BUILDING INSPECTION DEPARTMENTS HAVE REQUESTED THAT GROUPS OF TWO OR THREE SITES CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS BE SCHEDULED AT ONE TIME IF POSSIBLE. AND CHECK DAMS. HERITAGE SLOCATION CODE: 66 10. CONSTRUCTION MANAGER WILL CONFIRM FAA APPROVAL OF TOWER LOCATION BY ISSUING TOWER RELEASE FORM. SI SSUED TO THE CONTRACTOR. 10. FILL PREPARATION: REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS FORM STRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW STRIFT OBSTRUCTIONS. AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW STRIFT OBSTRUCTIONS. OR BREAK UP SLOPED SURFACES STEEPER THAT I VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND 11. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE FINAL REDESIGN. WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY AND TOWER STRUCTURAL ANALYSIS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE LESS THAN THAT REQUIRED FOR FILL BREAK UP GROUND SURFACE TO DEPTH REQUIRED. PULL VERIFE PRIOR TO BID SUBMITTAL MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY Ð 12. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO 11. REPLACE THE EXISTING WEARING SURFACE ON AREAS, WHICH HAVE BEEN DAMAGED OR REMOVED DURING CONSTRUCTION OPERATIONS, SURFACE SHALL BE REPLACE TO MATCH EXISTING ADJACENT SURFACING AND SHALL BE OF THE SAME THICKNESS. NEW SURFACE SHALL BE FREE FROM CORRUGATIONS AND WAVES. 13. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND OSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE IF THE SITE AT ALL TIMES. ANY DAMAGE EXISTING SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH. ORGANIC MATERIAL, OF OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL RESURFACING MATERIAL AS REQUIRED. BEFORE SURFACING IS REPLACED, SUBGRADE SHALL BE TO ADJACENT PROPERTIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. 14. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO PROPERTY OUTSIDE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. SURFACING SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE THE LEASE PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR. 15. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS WILL OPERATE. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE AGENCIES PRIOR TO DISPOSAL ICE BRIDGE 16. SEEDING AND MULCHING OF THE SITE SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD 13. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE - FENCE REPAIRED / REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE. 17. PERMITS: OBTAIN AND PAY FOR REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC. 14. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID 18. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS. POWER METER 15. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION. OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT. 19. THE CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING ON THE WORK CONTAINED IN THIS DESIGN PACKAGE. 16. RIPRAP SHALL BE CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY AND FREE OF ANY DETRIMENTAL QUANTITY OF SORT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC H-FRAME 20. ALL EQUIPMENT AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH VERIZON WIRELESS MATTER, OIL, ALKALI OR OTHER DELETERIOUS SUBSTANCE. ---- GAS LINE -- GAS VALVE UTILITY POLE G■· UNDERGROUND ELECTRIC LINE REMOTE RADIO UNIT (RRU) -- OVERHEAD ELECTRIC LINE UNDERGROUND CONDUIT OVERVOLTAGE PROTECTION (OVP) --- F --- FIRER/TELECOM CONDUIT **CIVIL GENERAL NOTES** CIVIL LINETYPES CIVIL SYMBOLS C001



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2	REVISED PER CLIENT COMMENTS	08/02/22		
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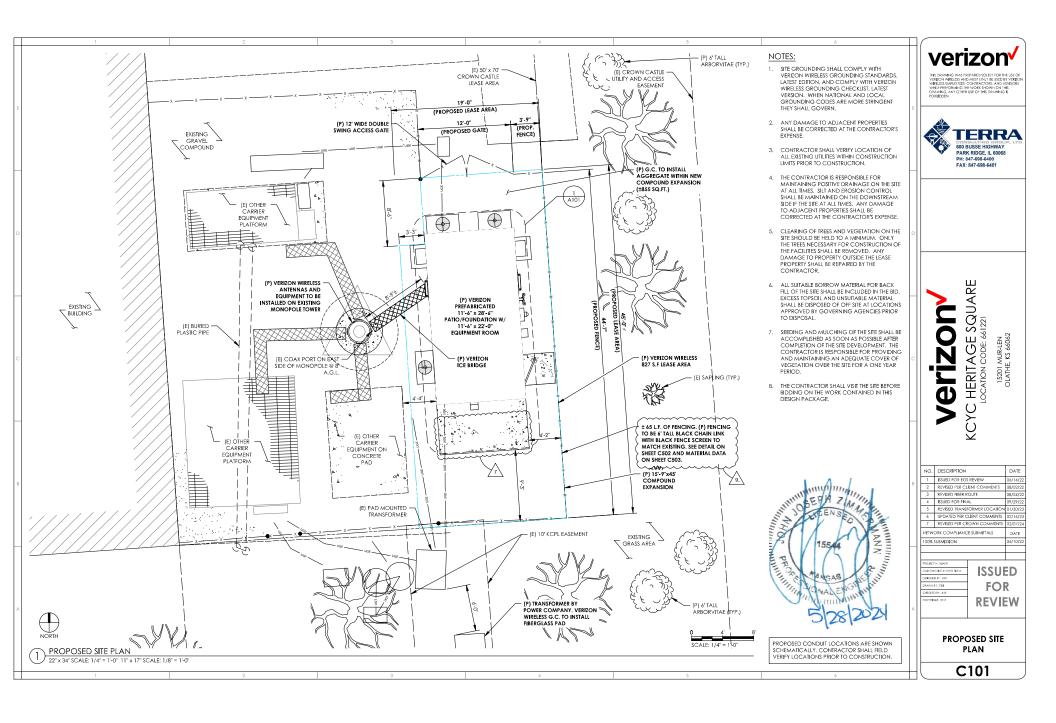
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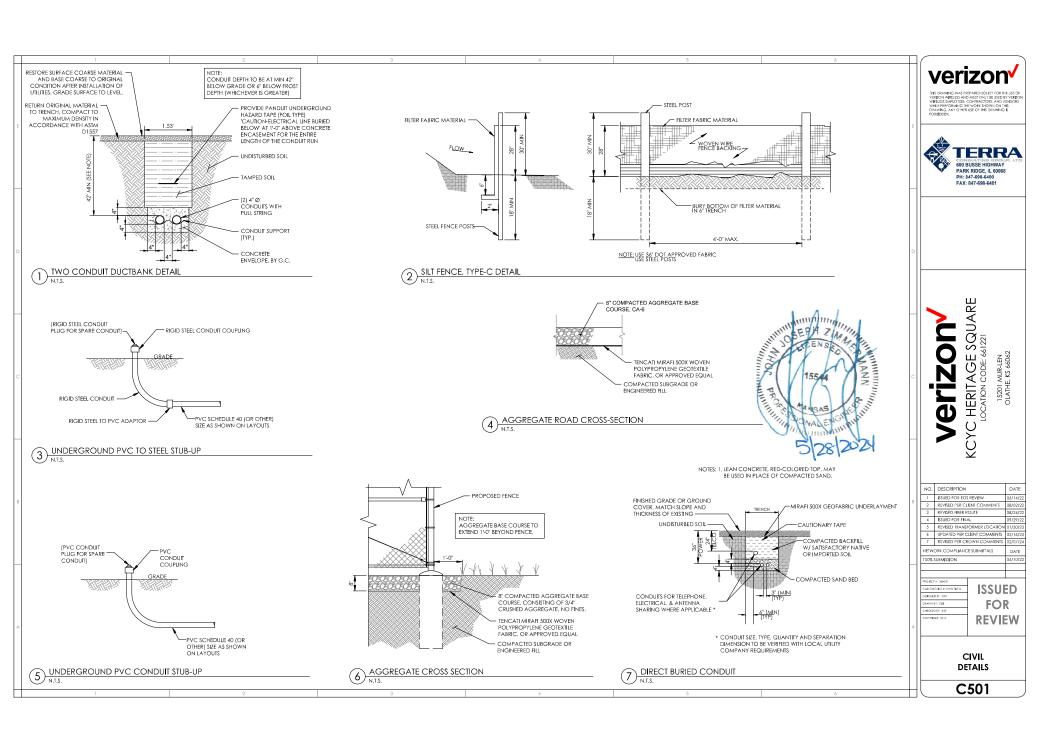
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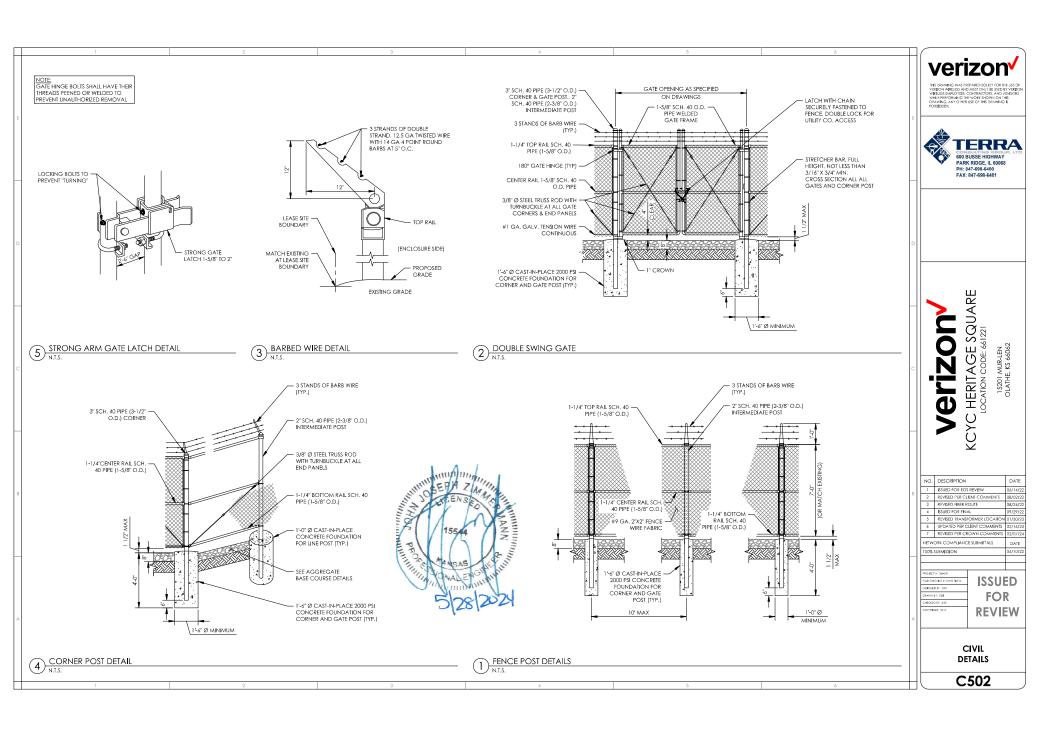
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CIVIL SITE DEMOLITION PLAN

**CD101** 









#### Poly( Vinyl Chloride) (PVC)- Coated Steel Chain Link Fence Fabric

Class 2b - Fused and Adhered ASTM F668, Federal Specification RR-F-191 Type IV, AASHTO M-181 Type IV

#### PRODUCT NAME

SPSV Fused and Bonded Poly (Vinyl Chloride)- PVC Coated Steel Chain L ink Fence Fabric

#### MANUFACTUR E R

#### Stephens Pipe and Steel, LLC Manufacturing Locations:

Stephens Pipe and Steel, LLC 1413 Steve Warriner Drive Russell Springs, Kentucky 42642

Stephens Pipe and Steel, LLC 4301 46th Street Bladensburg, Maryland 20710

Stephens Pipe and Steel 2891 State Hwy 160 Warrior, Alabama 35180

#### PRODUCT DESCRIPTION

#### Basic Use:

Fused and adhered fabric is a bonded vinyl, high strength galvanized steel, chain link fence fabric for industrial, commercial and institutional application. Fused and adhered fabric is the highest quality available and is used in numerous federal, state, civil, and military specifications.

#### Com position and Materials:

The galvanized steel core wire for producing fused and adhered PV Coated steel chain link fence fabric is produced by cold-drawing good commercial grade steel rod into wire of the appropriate diameter. The steel rod from which the wire is drawn is produced by the open hearth, electric furnace or basic oxygen process. The galvanized coating is produced by passing the cleaned wire through a bath of molten zinc which conforms to ASTM B6.

The fused and adhered PVC coating is produced by first applying a thermoset bonding agent to the galvanized core wire to which the PVC is bonded. A coating of PVC up to 0.010 in. (0.25 mm) is then fused and bonded to the wire.

#### Standards:

ASTMB 6 Slab Zinc AST M F567 Installation of Chain Link Fence ASTM F668 Poly(Vinyl Chloride) (PVC ) and Other Organic Polymer-Coated Steel Chain Link Fence Fabric,

C lass 2b Federal Specification RR-F-19 1 K/1 D

Fencing, Wire and Post Metal (Chalir-L ink Fence Fabric), Type IV America n Association of State Highway Transportation Officials (AASHTO) M-18I Chain Link Fence, Type IV, C lass A

#### TECHNICAL DATA

#### General:

The manufacturer, if requested, will supply samples and certification that all materials furnished fully comply with the appropriate specifications.

#### Chain Link Fence Fabric:

The base metal of the chain link fence fabric s composed of commercial quality, medium-carbon galvanized (zinc coated) steel wire, The vinyl coating is thermally bonded to a thermoset bonding layer over a galvanized steel wire. This process ensures a tightly bonded coating free of voids, as well as a sm oot h surface appearance. Vinyl coating thickness, galvanized coating weight, and wire tensile stength conform to Federal Specification RR-F-191, ASTM F668, Class 2a, and AA HTO M-181 Type IV, Class A, as shown in Table 1. The wire is PVC coated before wearing and is free and flexible at all joints. Unless otherwise specified, fabric woven in 2 in. (50 mm) mesh, under 72' (1,830 mm) in height, is knuckled at both selvages; fabric 72'' (1,830 mm) migh and over is knuckled at one selvage and twisted at the other. All fabrics woven into meshes under 2 (1,50 mm) have both selvages knuckled.

#### Wire Coating:

Only plasticized poly(vinyl chloride) (PVC) with a low temperature (-20 °C; -4°F) plasticizer and no extenders or extraneous matter other than the necessary stabilizers and pigments, is used. The PVC coating resist s attack from prolonged exposure to dillute solutions of most common mineral acids, seawater, and dilute solutions of most suits and alkali.

#### ASTM Color System:

Standard colors conform to ASTM F934 and include:

Ensor		
Green	Bro wn	B lac
28.61	27.76	22.3
-12.59	3 .37	-0.09
1 .95	4.28	-0.85

Other colors are available by special order.

Coating Adhesion: The PVC coated wire shall pass the test for adhesion contained in ASTM F668 for Class 2b chain link fabric.

#### INSTALLATION

Install fence in accordance with ASTM Practice 567. Handle all PVC coated material with care. If PVC coating is damaged during installation, contractor must replace o r repair the material at own expense.

#### AVAILABILITY AND COST

Availability: PVC-coated steel chain link fence fabric is available for shipment throughout the United States and worldwide.

Cost: Material costs may vary depending on specific requirements. Costs may be obtained through all Stephens Pipe Service Centers.

#### WARRANTY

Fused and adhered P VC coated steel chain link fence fabric is warranted for 15 years against failure due to rust or corrosion.

#### MAINTENANCE

Periodic inspection is recommended but no routine maintenance is required.

#### TECHNICAL SERVICES

Technical services are available. Call your sales representative for assistance.

#### NO.

MATERIAL DATA IS SUPPLIED BY FENCE MANUFACTURER AND IS PROVIDED FOR REFERENCE GO TO CONTACT AMERIFENCE CORPORATION FOR ORDERING AND INSTALLATION INFORMATION: CHAD CHRISTENSEN AMERIFENCE CORPORATION (815IN 883-291)



THIS DRAWING WAS PREPARED SOLELY FOR THE USE OF VERZON WELLESS AND MUST ONLY BE USED BY VERICE WHELESS EMPLOYES, CONTRACTORS, AND VENDORS WHILE PERFORMING THE WORK SHOWN ON THIS DRAWING, ANY OTHER USE OF THIS DRAWING IS





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4	ISSUED FOR FINAL	09/29/22
5	REVISED TRANSFORMER LOCATION	01/30/23
6	UPDATED PER CLIENT COMMENTS	02/16/23
7	REVISED PER CROWN COMMENTS	02/07/24
NETW	ORK COMPLIANCE SUBMITTALS	DATE
100%	SUBMISSION	06/10/22

ı	PROJECT 1: 1604011	
ı	CAD DWG RLE F: DWG RLE F	ISSUFD
ı	DESIGNED BY: XIX	100010
ı	DRAWN SY: CES	FOR.
ı	CHECKED BY: XXX	101
l	COPYRIGHE 2017	REVIEW

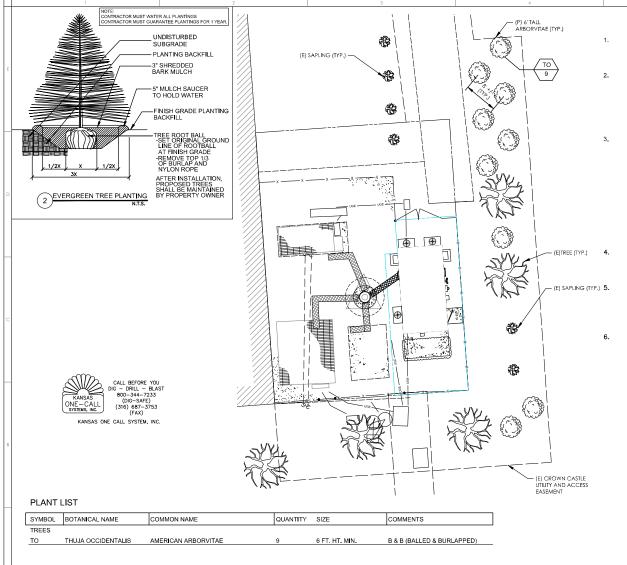
FENCE MATERIAL DATA

C503



800.451.2612

ONE SOURCE



SCALE: 1/4" = 1'-0"

#### **GENERAL LANDSCAPE NOTES**

PRUNE NEWLY INSTALLED SHRUBS. WORK SHALL BE DONE BY EXPERIENCED PERSONNEL TO THE ACCEPTED HORTICULTURAL AND ARBORICULTURAL STANDARDS. PRUNING SHALL RESULT IN A LOOSE OUTLINE CONFORMING TO THE GENERAL SHAPE OF THE SHRUB TYPE. DO NOT USE HEDGE SHEARS.

ALL PLANTING STOCK SHALL BE NURSERY-GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. PLANTS SHALL BE FREE OF DISEASE, INSECTS EGGS, LARVAE AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS OR DISFIGUREMENT. THEY SHALL HAVE SOUND, HEALTHY VIGOROUS AND UNIFORM GROWTH TYPICAL OF THE SPECIES AND VARIETY, WELL-FORMED, FREE FROM IRREGULARITIES, WITH THE MINIMUM QUALITY AND SIZE CONFORMING TO AMERICAN STANDARD FOR NURSERY STOCK

GUARANTEE: WARRANT ALL PLANT MATERIAL TO BE TRUE TO BOTANICAL NAME AND SPECIFIED SIZE. AFTER COMPLETION OF PLANTING, ALL PLANT MATERIALS SHALL BE WARRANTED AGAINST DEFECTS, INCLUDING DEATH AND UNSATISFACTORY GROWTH FOR A WARRANTY PERIOD OF ONE YEAR. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR DEFECTS RESULTING FROM NEGLECT ABUSE, DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS BEYOND THE CONTRACTORS CONTROL WHICH RESULT FROM NATURAL CAUSES SUCH AS FLOODS STORMS, FIRES OR VANDALISM.

REPLACEMENTS: DURING THE WARANITY PERIOD, REPLACE ONE TIME, AT NO ADDITIONAL COST TO THE OWNER, PLANT MATERIALS THAT ARE DEAD, OR IN THE OPINION OF THE LANDSCAPE ARCHITECT, IN AN UNHEALTHY OR UNSIGHTLY CONDITION. REJECTED PLANT MATERIALS SHALL BE REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE. REPLACEMENTS ARE TO BE MADE NO LATER THAN THE SUBSEQUENT PLANTING SEASON, RESTORE AREAS DISTURBED BY REPLACEMENT OPERATIONS.

MULCHING SHALL BE DONE WITHIN 48 HOURS AFTER PLANTING. MULCH SHRUB BEDS TO A UNIFORM DEPTH OF THREE INCHES. MULCH SHALL BE CLEAN COMPOSTED PINE BARK MULCH FREE OF FOREIGN MATERIAL AND LARGE PIECES OVER THREE INCHES LONG. DO NOT MULCH TREE AND SHRUB PLANTING PITS.

TOPSOIL SHALL CONSIST OF FERTILE FRIABLE NATURAL LOAM, CONTAINING A LIBERAL AMOUNT OF HUMUS AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL. IT SHALL BE FREE OF ADMIXTURES OF SUBSOIL AND FREE OF CRAB GRASS, ROOTS, STICKS AND OTHER EXTRANEOUS MATTER, AND SHALL NOT BE USED FOR PLANTING OPERATIONS WHILE IN A FROZEN OR MUDDY CONDITIONS

REPAIR ALL TURF AREAS BY SEEDING. SEEDING INSTALLATION SHALL BE EXECUTED ONLY AFTER ALL FINISH GRADING HAS BEEN COMPLETED. NO SEEDING WORK SHALL BE DONE PAST SEPTEMBER 15, UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.

SEED: SEED MIX SHALL MATCH EXISTING TURF, OR BE A 50/50 MIX OF CERTIFIED IMPROVED BLEND OF BLUEGRASS AND CERTIFIED IMPROVED PERENNIAL RYE. MIX SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING. SEEDING SHALL BE APPLIED AT A MINIMUM RATE OF 120 POUNDS PER ACRE. FUTERRA BLANKET, OR EQUAL, SHALL BE USED FOR EROSION CONTROL MULCH WHERE NECESSARY IN LIEU OF HYDRO MULCH.



PROPOSED CONDUIT LOCATIONS ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL FIELD VERIFY LOCATIONS PRIOR TO CONSTRUCTION.

verizon /

THIS DRAWING WAS PREPARED SOLELY FOR THE USE O VERTION WRELESS AND MIST ONLY SE USED BY VERY WIRELESS EMPLOYEES, CONTRACTORS, AND VENDORS WHILE PERFORMING THE WORK SHOWN OF THIS DRAWING, ANY OTHER USE OF THIS DRAWING IS



# Verizon KCYC HERITAGE SQUARE LOCATION CODE: 661221

15201 MUR-LEN OLATHE, KS 66062

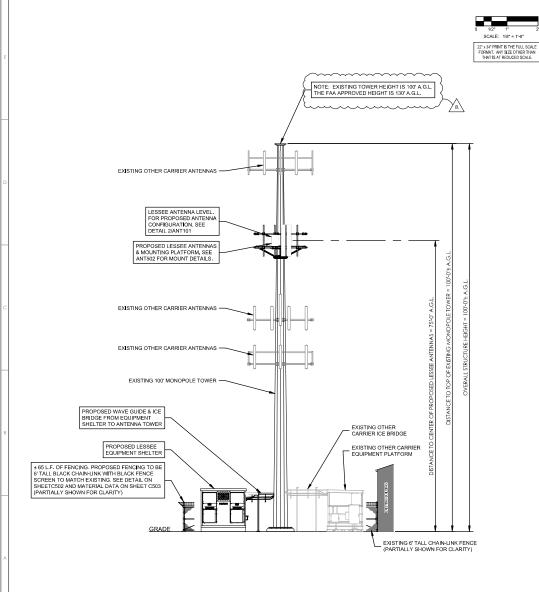
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100%	SUBMISSION	06/10/22

ı	PROJECT 1: 160-011	
ı	CAD DWG RLE F: DWG RLE F	ISSUFD
ı	DESIGNED BY: XIX	100010
ı	DRAWN BY: CEB	FOR.
ı	CHECKED BY: XXX	101
l	COPYNGHE 2017	REVIEW

LANDSCAPE PLAN

C504

PROPOSED LANDSCAPE PLAN
22" x 34" SCALE: 1/4" = 1"-0" 11" x 17" SCALE: 1/8" = 1"-0"







PROPOSED SHELTER RENDERING
SCALE: N.T.S.





INS DRAWING WAS PREPARED SOLDET FOR THE USE OF VERTICON WRELESS AND MIST ONLY BE USED BY VERICH WIRELESS EMPLOYEES, CONTRACTORS, AND VENDORS WHILE PERFORMING THE WORK SHOWN ON THIS DRAWING, ANY OTHER USE OF THIS DRAWING IS FORNICODEN.



# Verizon CCYC HERITAGE SQUARE LOCATION CODE: 661221

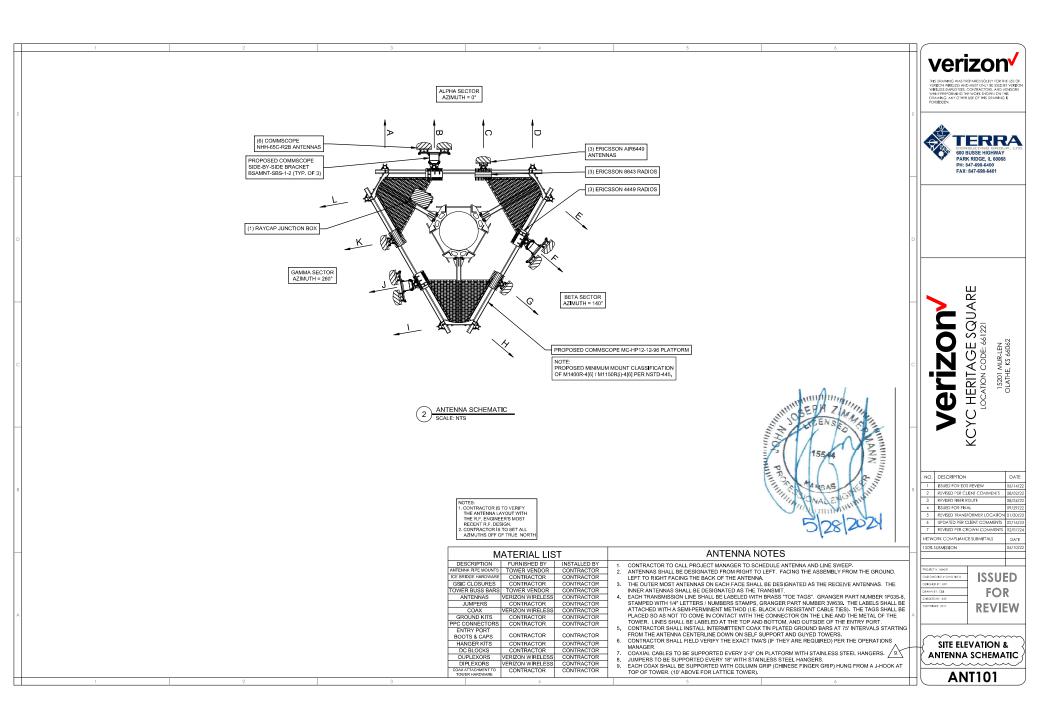
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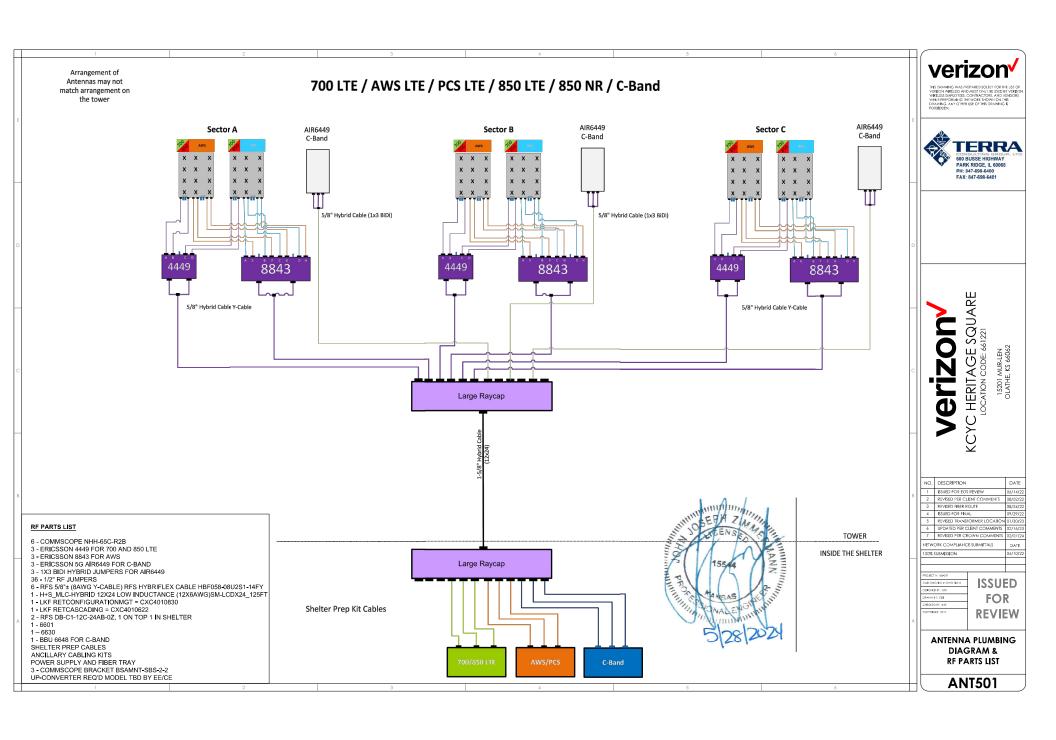
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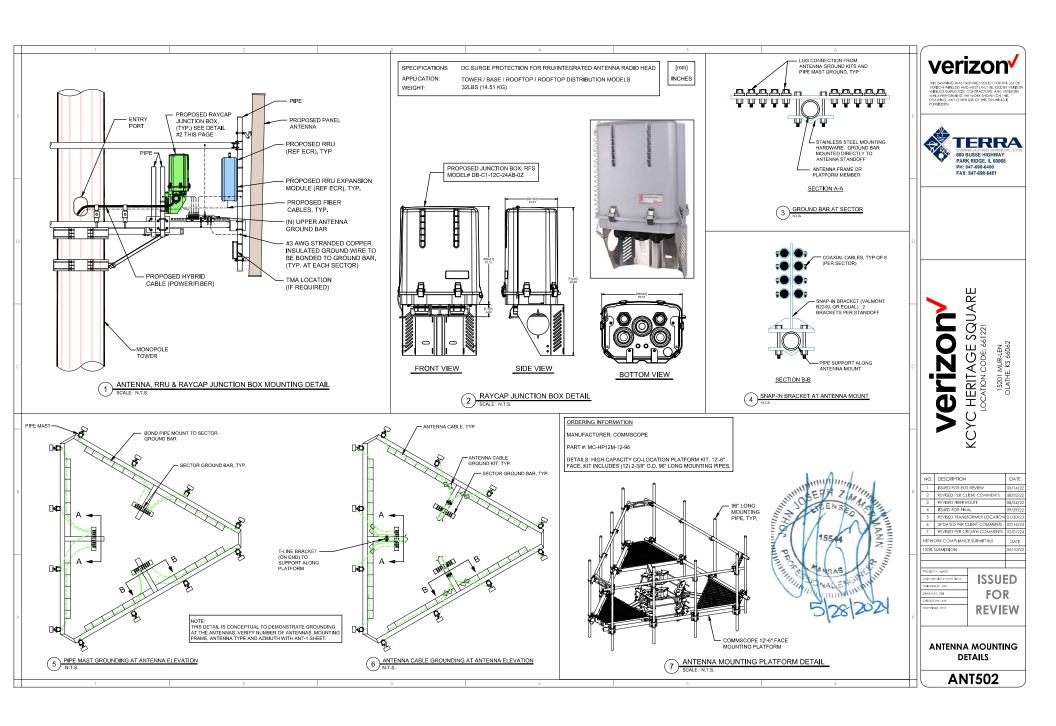
SITE ELEVATION & ANTENNA SCHEMATIC

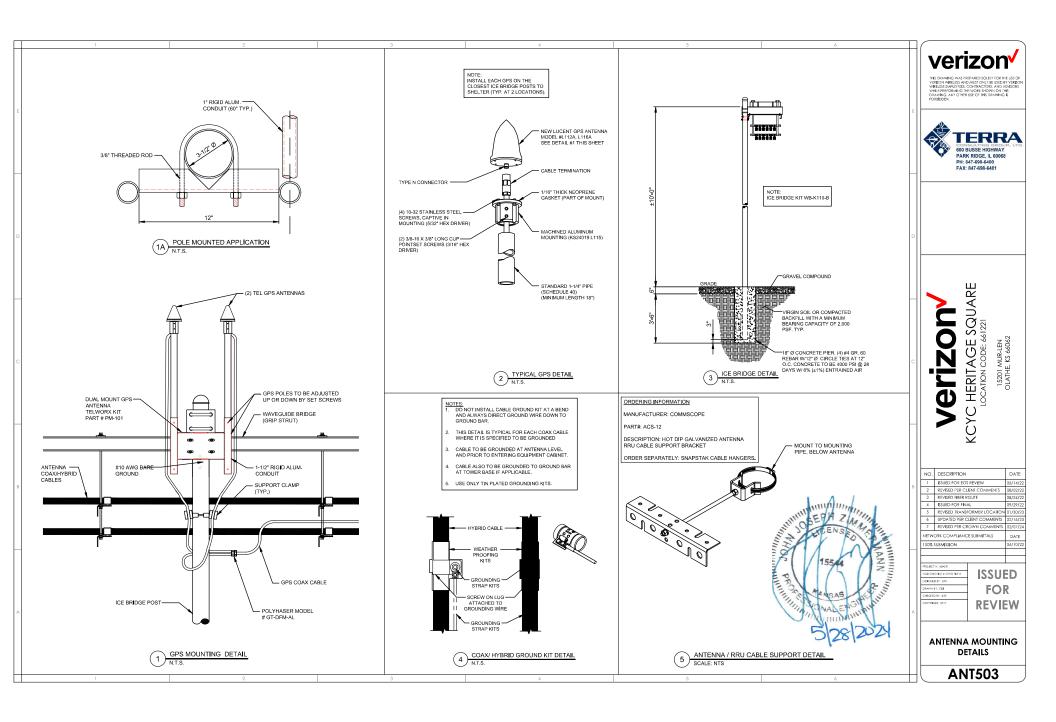
1 NORTH ELEVATION SCALE: 1/8" = 1'-0"

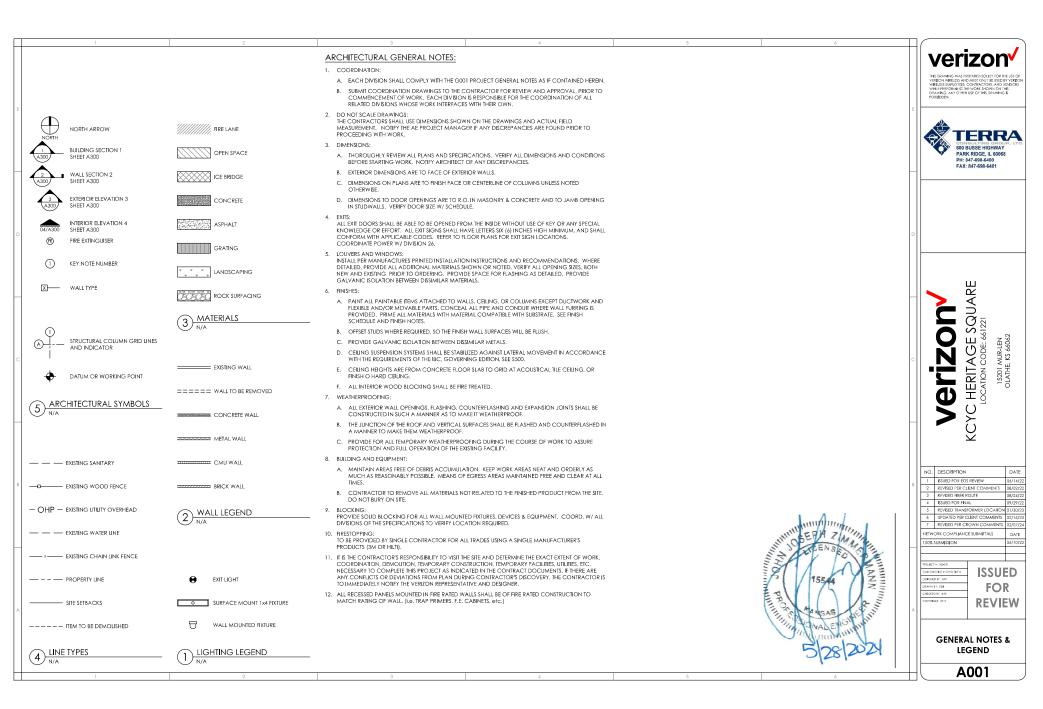
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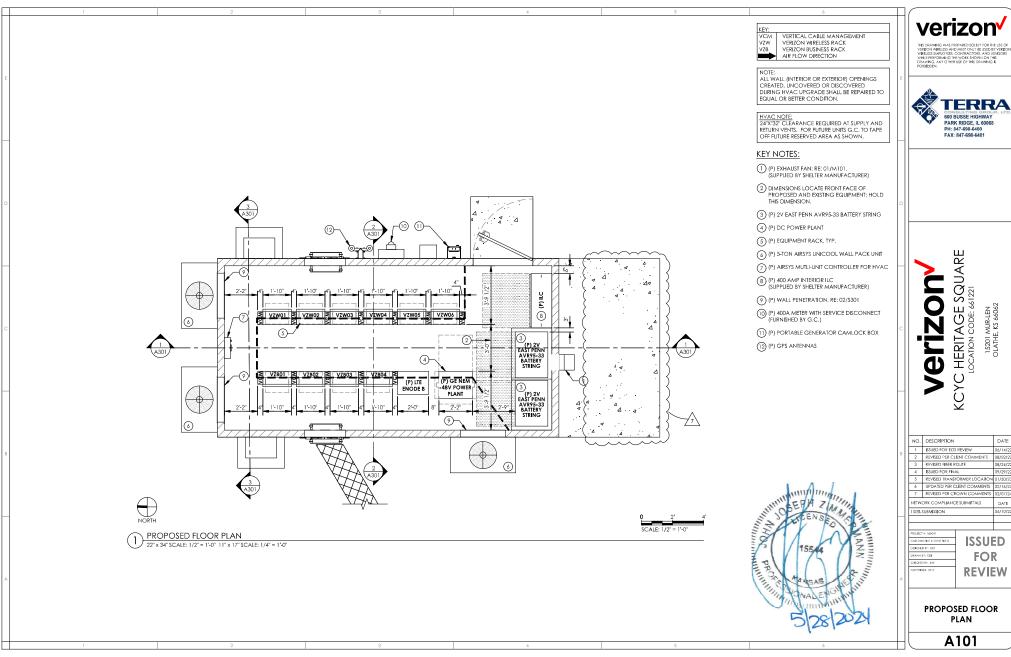




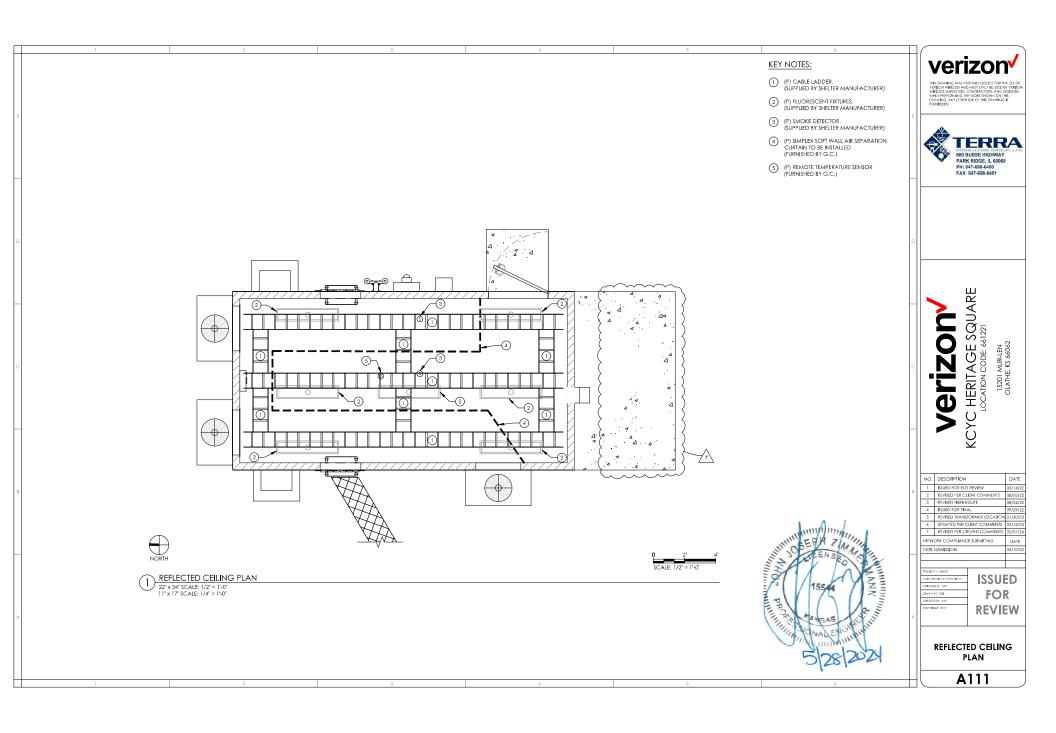


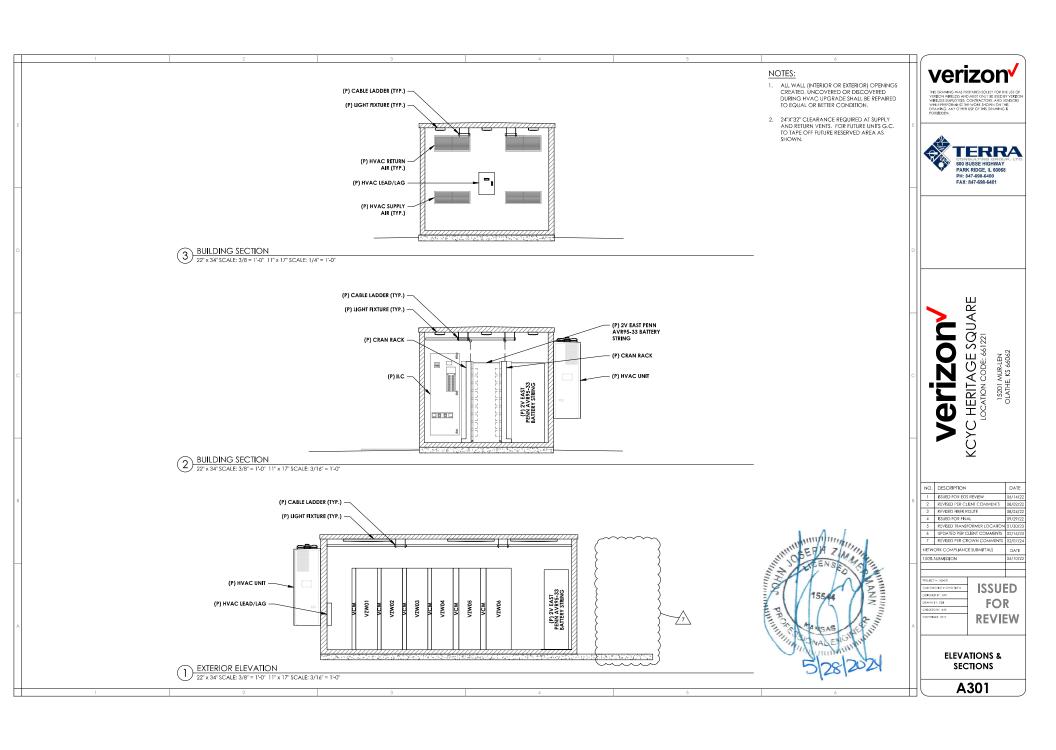


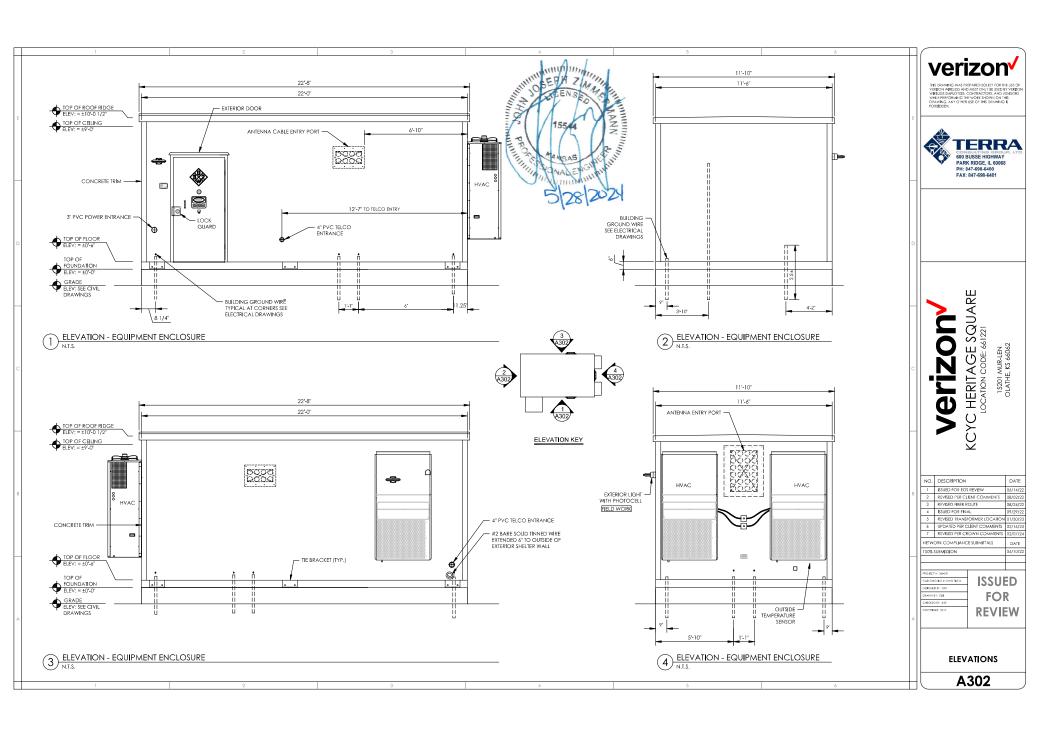


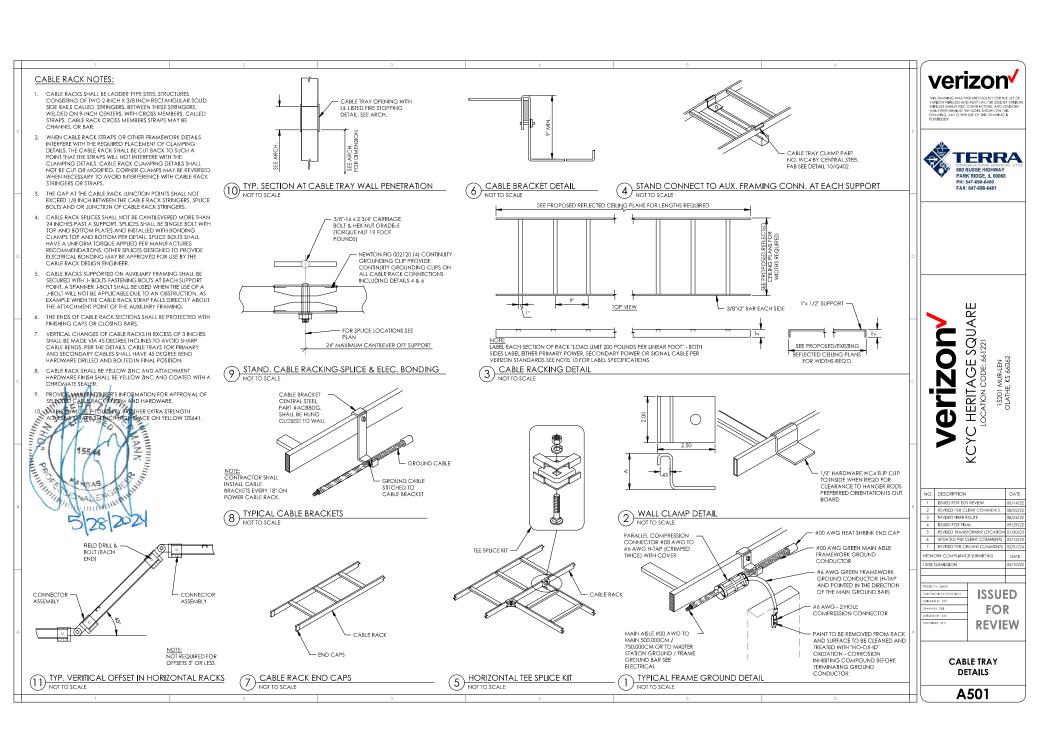


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NETWORK COMPLIANCE SUBMITTALS		DATE
100%	SUBMISSION	06/10/22









#### ANCHORAGE:

- ALL ANCHORS SHALL HAVE A CURRENTICC ES EVALUATION REPORT
- ADHESIVE ANCHORS SHALL CONSIST OF ALL-THREAD ANCHOR ROD, NUT, WASHER AND EPOXY INJECTION GEL OR ADHESIVE CAPSULE SYSTEM. STATE MATERIAL TYPE AND STRENGTH FOR ANCHOR RODS.
- NOTATIONS ON DRAWNICS RELATING TO EXPANSION, SLEEVE, FLUSH OR ADHESIVE ANCHORS AND
  OTHER CONNECTING DEVICES REFER TO CONNECTORS MANUFACTURED BY HILT. EQUIVALENT DEVICES
  BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THAT THEY HAVE ICC ES EVALUATION
  REPORT FOR EQUAL OR GREATER LOAD CAPACITIES AND ARE REVIEWED BY THE ARCHITECT AND
  STRUCTURAL HIGHER.
- ALL ANCHORS SHALL HAVE A CURRENT ICC ES EVALUATION REPORT

#### CONCRETE:

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF AMERICAN CONCRETE INSTITUTE ACI 318 AND ACI 301.
- ALL CONCRETE SHALL BE NORMAL WEIGHT AND SHALL ACHIEVE A COMPRESSIVE STRENGTH, I'c = 4000
  PSI AT 28 DAYS, UNLESS NOTED OTHERWISE, CEMENT SHALL CONFORM TO ASTM C150 TYPE II.
- MIX AND DELIVER CONCRETE IN ACCORDANCE WITH ASTM C94, ALTERNATE NO. 2. CONTRACTOR SHALL SUBMIT MIX DESIGN TO THE ENGINEER FOR REVIEW PRIOR TO PLACEMENT OF CONCRETE.
- MAXIMUM AGGREGATE SIZE SHALL NOT EXCEED 3/4".
- SLUMP OF CONCRETE SHALL BE 2" TO 5".
- . NO ADMIXTURES SHALL BE USED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER.
- ALL CONSTRUCTION AND EXPANSION JOINTS SHALL BE INSTALLED PER THE DRAWINGS.
- ALL EXPOSED CORNERS OF CONCRETE WORK SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE ALL REINFORCING STEEL SHALL BE LAPPED PER ACI CODE 318.
- ALL FORMWORK SHALL BE RIGID, TIGHT, LEVEL, PLUMB AND SUFFICIENTLY SHORED TO RESIST CONSTRUCTION LOAD CONDITIONS.
- CURING OF CONCRETE SHALL BE PER ACI 308, STANDARD PRACTICE FOR CURING CONCRETE.
- PLACE CONCRETE IN ACCORDANCE WITH ACI 304
- HOT WEATHER CONCRETE SHALL BE PER ACI 305R. COLD WEATHER CONCRETING SHALL BE PER ACI 306R.
- PRIOR TO THE PLACEMENT OF THE CONCRETE, THE CONTRACTOR SHALL PROVIDE A MINIMUM 24 HOUR
  WRITTEN NOTICE TO THE OWNER'S REPRESENTATIVE AND THE TESTING AGENCY.
- PROVIDE TEST CYLINDERS FOR EQUIPMENT SLAB AND FOUNDATION AS FOLLOWS:
   1 CYLINDER AT 7 DAYS 1 CYLINDER AT 28 DAYS

#### STRUCTURAL STEEL, MISC. METAL:

- THE FABRICATION AND ERECTION OF STEEL SHALL CONFORM WITH "AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST ADDITION.
- 2. STRUCTURAL STEEL AND FASTENERS SHALL MEET THE FOLLOWING ASTM STANDARD SPECIFICATION

A. B.	WIDE FLANGE BEAMS STEEL PLATES, ANGLES, CHANNELS, AND ALL OTHER STEEL U.N.O.	ASTM SPEC A992 A36	YIELD 50 KSI 36 KSI
C.	PIPE	A53 GR.B	35 KSI
D.	HSS RECTANGULAR	A500 GR.B	46 KSI
E.	HSS ROUND	A500 GR.B	42 KSI
F.	BOLTS	A325	
G.	THREADED RODS	A36	

- ALL NEW EXTERIOR STRUCTURAL STEEL AND FASTENERS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND ASTM A153.
- 4. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
- 5. ALL WELDS SHALL BE PREQUALIFIED.
- WELDED CONNECTIONS SHALL BE MADE BY CERTIFED WELDERS AND SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY AWS DOI. 1, ELECTRODS SHALL BE FOR SHEIS, ALL STEEL SURFACES SHALL BE PREPARED FOR FIELD WELDING PER AWS, AFTER WELDING ALL WELDED SURFACES SHALL BE WIRE BRUSHED AND COATED WITH COLD GALVANIUM COMPOUND.
- 7. CONNECTION SHALL BE DESIGNED BY THE ENGINEER OF RECORD.

#### DEMOLITION:

- ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A MANNER AS NOT TO DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN A PART OF THE FINISHED STRUCTURE.
- EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE
  TO A MINIMUM.
- ALL ELEMENTS OF THE STRUCTURE WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST.

#### FOUNDATIONS:

- MINIMUM BEARING BELOW LOWEST ADJACENT FINAL FINISH FLOOR OR GRADE. EXPOSED SOIL SHALL BE INSPECTED FOR COMPLIANCE WITH THE SOILS REPORT
- . FOOTING DEPTHS ARE MINIMUM DIMENSIONS, AND MAY BE CHANGED BY THE SOILS ENGINEER
- ALL RETAINING WALLS SHALL HAVE FREE DRAINING OR GRAVELY BACKFILL, OR DRAINAGE MATTING FULL HEIGHT OF WALL.
- ALL WALKWAYS AND OTHER EXTERIOR SLABS ON GRADE MAY NOT BE SHOWN ON THE STRUCTURAL PLANS. SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT, UNLESS SHOWN OTHERWISE
- THE OWNER HAS CAUSED A GEOTECHNICAL EXPLORATION TO BE PERFORMED AT THE SITE. COPIES OF
  THE REPORT ARE AVAILABLE TO THE CONTRACTOR FOR REFERENCE ONLY. NETHER THE OWNER NOR THE
  ENGINEER GURAANTEE THE ACCURACY OF THE VALID TY OF THE DATA CONTAINED THEREIN, NOR DO
  THEY ASSUME ANY RESPONSIBILITY FOR THE CONTRACTOR'S USE OF INTERPRETATION OF THE DATA
  CONTAINED THEREIN. THE CONTRACTOR SHALL AMILLARIZE HIMSELF WITH THE CONTENTS OF THE ABOVE
  REFERENCED REPORT PRIOR TO SUBMITTAL OF HIS BIDS.
- THE CONTRACTOR SHALL EXCAVATE 8" BELOW GRADE AND SPRAY WITH WEED CONTROL AND PLACE GEOTEXTILE FABRIC, CLASS 2 AGGREGATE BASE AND CLEAN ROCK AROUND ENTIRE FENCE AREA.
- ENGINEERED FILL SHOULD CONSIST OF ENVIRONMENTALLY CLEAN APPROVED MATERIAL, FREE OF LUMPS, FROZEN SOIL, TOPSOIL OR OTHER DELETERIOUS MATERIAL.
- ALL FILL MATERIALS REQUIRING COMPACTION SHALL BE PLACED IN LIFTS NOT EXCEEDING 9 INCHES AND COMPACTED TO A MINIMUM OF 95 FERCENT OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTIM DI 1557 (MODIFIED PROCTOR) FILL MATERIALS NOT REQUIRING COMPACTION SHALL BE FLACED IN LIFTS NOT TO EXCEED TO:
- CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING FOR THE EXCAVATION WORK IN ACCORDANCE WITH THE APPLICABLE SAFETY ORDINANCES.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE
- CONTRACTOR IS RESPONSIBLE FOR ALL COLD WEATHER EQUIPMENT SUCH AS GROUND THAWING GOUPMENT AND FROST IERHOLDERS TO AVOID COLD WEATHER DELAYS. THESE SHALL BE INCLUDED IN THE ORIGINAL BID FOR THIS PROJECT, CHANGE ORDER REQUESTS AFTER CONSTRUCTION HAS STARTED SHALL BE COMPLETED AT THE CONTRACTORS EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING COSTS ASSOCIATED WITH THIS PROJECT, WHETHER
  WATER IS SHOWN AS BEING PRESENT ON THE SOIL REPORT OR NOT, DEWATERING COSTS, MIST BE
  INCLIDED IN THE ORIGINAL BID FOR THIS PROJECT, CHANGE ORDERS SUBMITTED FOR DEWATERING
  COSTS AFFER CONSTRUCTION HAS STARTED SHALL BE COMPRETED AT THE CONTRACTORS EXPENSE.

#### REINFORCING STEEL:

- REINFORCING STEEL SHALL CONFORM TO ASTM A-615 OR A-706, GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE VERTICAL REINFORCING
- WELDING OF REINFORCEMENT IS PROHIBITED

#### GENERAL NOTES:

#### COORDINATION

- A. EACH DIVISION SHALL COMPLY WITH THE GOOT PROJECT GENERAL NOTES AS IF CONTAINED HEREIN.
- B. CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ASSEMBLY AND COORDINATION OF WORK WITHIN ALL DIVISIONS AND TRADES INTO A SINGLE PACKAGE.
- C. THE STRUCTURE IS DESIGNED TO BE STABLE AND SELF-SUPPORTING AT THE COMPLETION OF CONSTRUCTION. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY TO DETERMINE THE METHOD AND MEANS OF CONSTRUCTION. PRECITION PROCEDURE. AND SEQUENCE TO ENSURE THE STABILITY AND SAFTY OF THE STRUCTURE AND ITS COMPONENT PARTS. AND THE ADECUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF ANY TEMPORARY OR INCOMPLETE CONNECTIONS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT INTERED TO, THE ADDITION OF ANY TEMPORARY BACKNICK OR GUTS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT INDICATED ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED, AS CONDITIONS PERMIT. AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- D. IT IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF THIS WORK.
- E. DO NOT SCALE DRAWINGS: THE CONTRACTOR SHALL USE DIMENSIONS SHOWN ON THE DRAWINGS AND ACTUAL FIELD MEASUREMENT. NOTIFY THE AE PROJECT MANAGER IF ANY DISCREPANCIES ARE FOUND PRIOR TO PROCEEDING WITH WORK.
- F. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE EXACT EXTENT OF WORK, COORDINATION, DEMOLITION, TEMPORARY CONSTRUCTION, TEMPORARY FACILITIES, ECT. NECESSARY TO COMPLETE THIS PROJECT AS INDICATED IN THE CONTRACT DOCUMENTS.
- DETAILS AND NOTES SHALL TAKE PRECEDENCE OVER GENERAL NOTES. IF A CONFLICT EXISTS, THE MOST STRINGENT SHALL APPLY.
- MANUFACTURED MATERIALS SHALL BE APPROVED BY THE CHECKING AGENCY PRIOR TO THEIR USE.
   ALL STRUCTURAL SYSTEMS ARE TO BE COMPOSED OF MANUFACTURED COMPONENTS TO BE FIELD EPECTED SHALL BE APPROVED BY THE CHECKING AGENCY PRIOR TO THEIR USE.
- ALL REFERENCED SPECIFICATIONS, CODES, AND STANDARDS SHALL BE THE LATEST APPROVED ISSUE, UNLESS NOTED OTHERWISE.

#### DESIGN CRITERIA:

CODE: 2018 INTERNATIONAL BUILDING CODE

ROOF SNOW LOAD - PER APPROPRIATE CODE SECTION		
GROUND SNOW LOAD, PG	20	PSF BASIC
FLAT ROOF SNOW LOAD, PF	20	PSF
SNOW EXPOSURE FACTOR, CE	1.0	
IMPORTANCE FACTOR, IS	1.0	
THERMAL FACTOR, CT	1.0	
FLOOR - PER APPROPRIATE CODE SECTION AND NSTD 389		
BATTERY AND RECTIFIER		6250 LBS
GENERATOR AND TANK		3250 LBS

#### WIND DESIGN - PER APPROPRIATE CODE SECTION

BASIC WIND SPEED - 3 SECOND GUST	110	MPH
EXPOSURE CATEGORY	С	
MPORTANCE FACTOR, IW	1.0	

MAXIMUM WIND VELOCITY	CORNER UPLIFT DESIGN PRESSURE	REQUIRED FM RATIN
(THREE-SECOND GUST)		
85 MPH	33 PSF	75
90 MPH	37 PSF	75
110 MPH	55 PSF	120
120 MPH	65 PSF	135

#### SEISMIC DESIGN - PER APPROPRIATE CODE SECTION

BASIC LATERAL FORCE RESISTING SYSTEM - PROVIDE CODE DEFINED SYSTEM

SHORT PERIOD ACCELERATION, SS = 0.096g
MAXIMUM CONSIDERED EARTHQUAKE, SMS = 0.153g
DAMPED SHORT PERIOD ACCELLERATION, SDS = 0.102g

ONE SECOND PERIOD ACCELERATION, S1 = 0.069g MAXIMUM CONSIDERED EARTHQUAKE, SMI = 0.166g SIDE COEFFICIENT, FV = 2.4 DAMPED ONE SECOND PERIOD ACCELERATION, SDI = 0.111g

RESPONSE MODIFICATION FACTOR, R = 4.0 SEISMIC RESPONSE COEFFICIENT, CS = 0.059 FUNDAMENTAL BUILDING PERIOD, T = 0.011 IMPORTANCE FACTOR, IS = 1.5

SEISMIC OCCUPANCY CATEGORY - IV SEISMIC DESIGN CATEGORY - B SITE CLASS D



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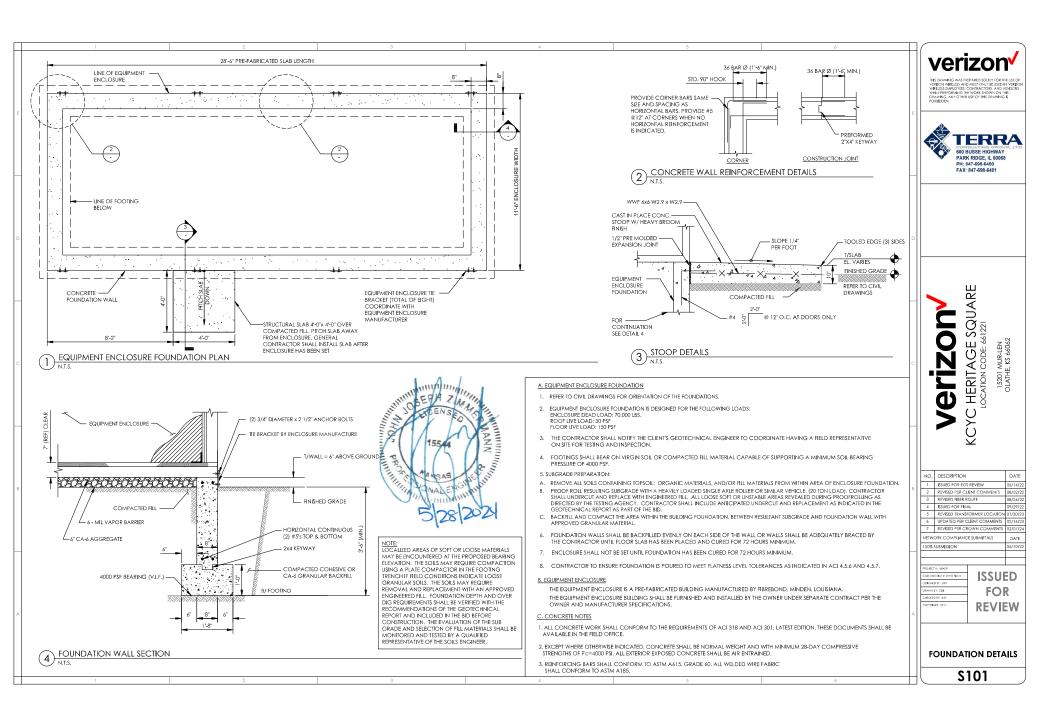


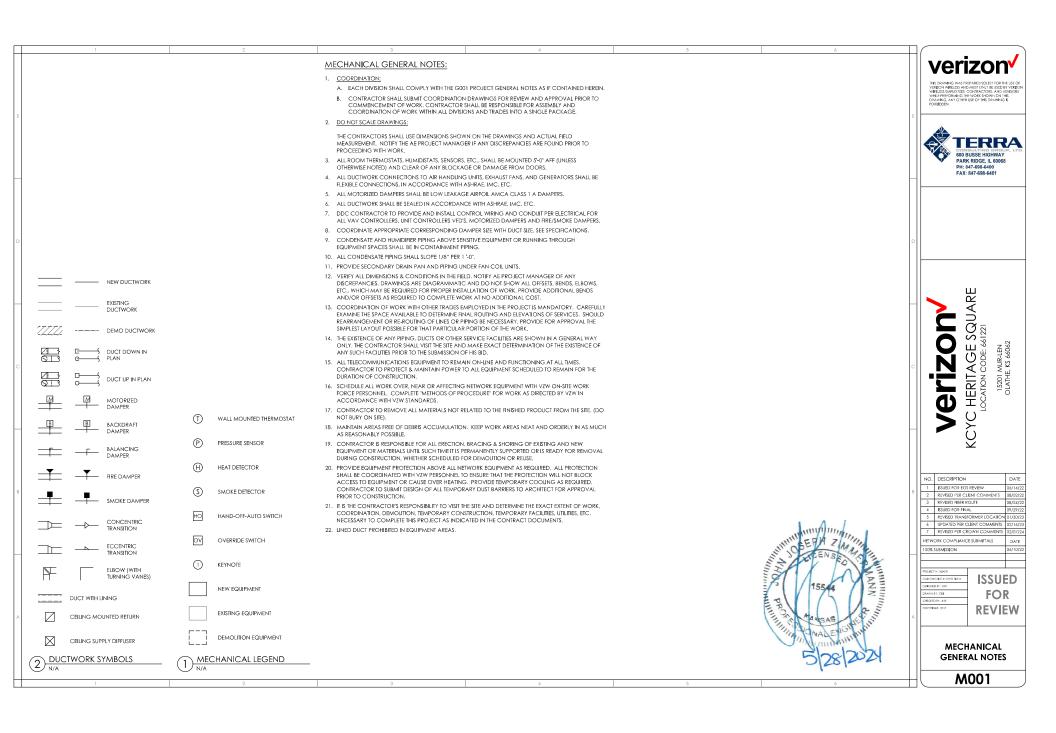
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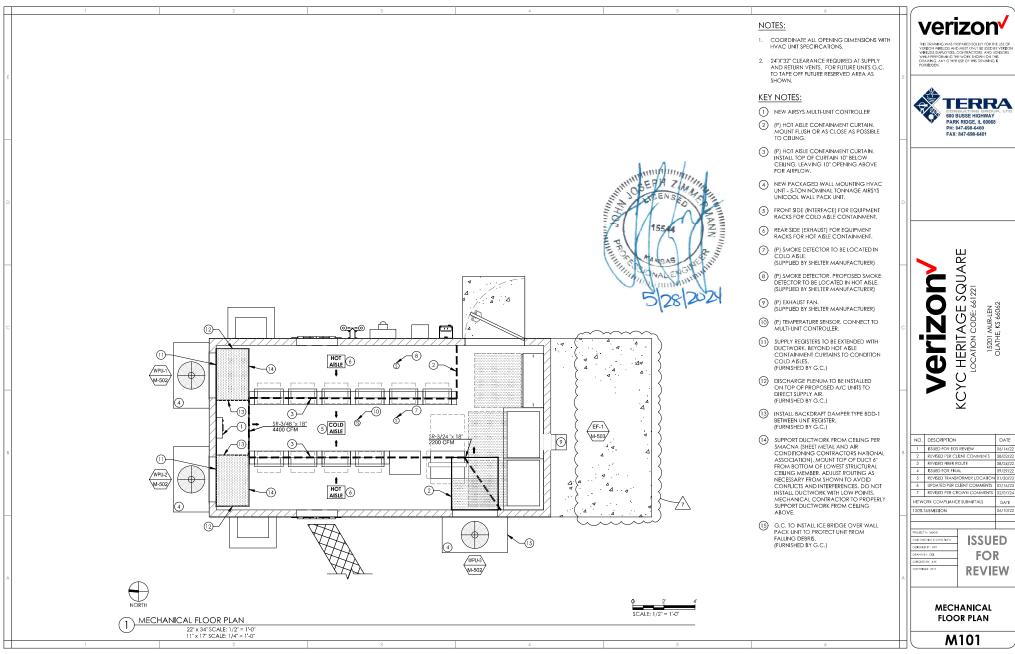
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STRUCTURAL GENERAL NOTES

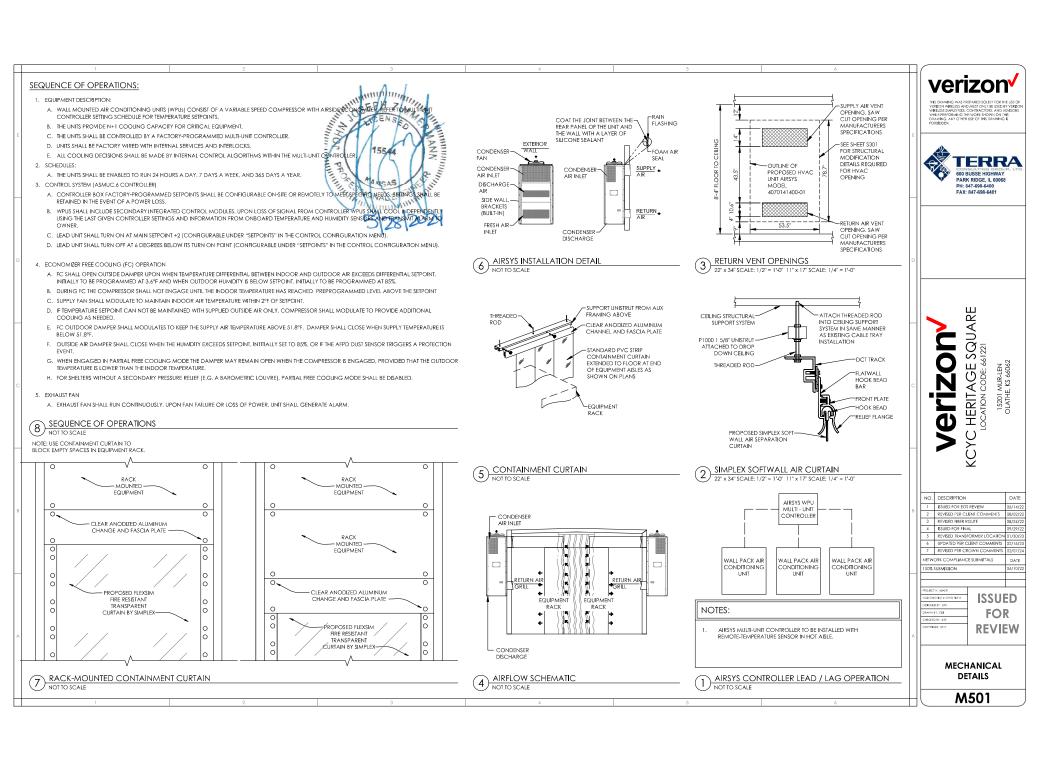
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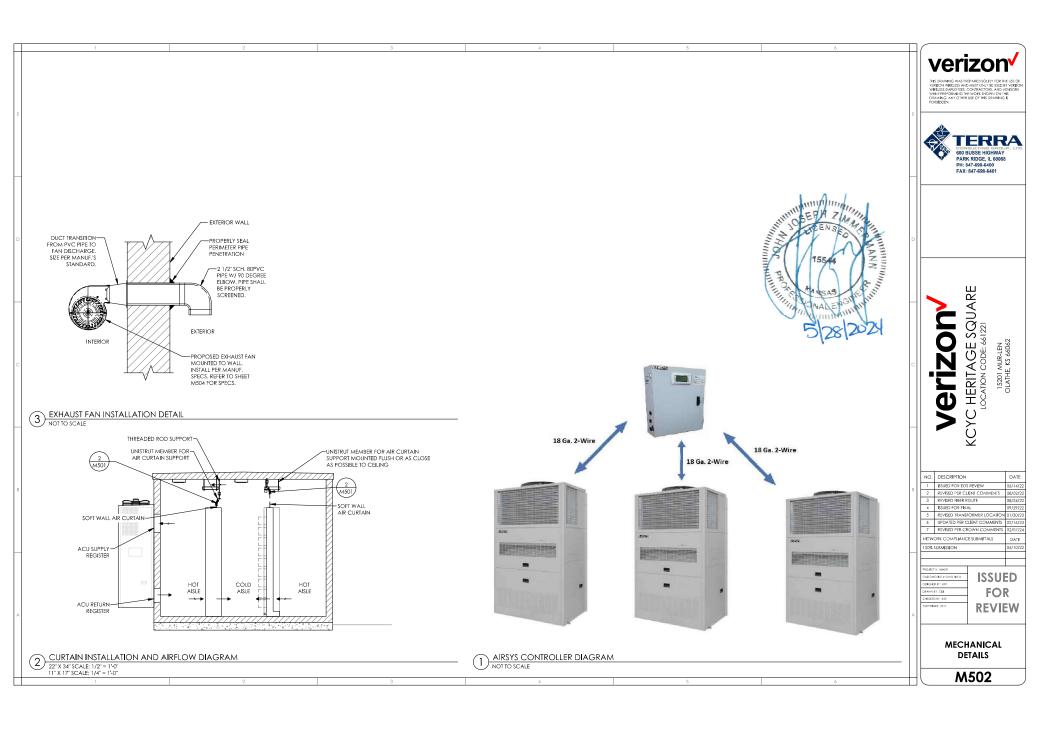






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	WALL PACK UNIT (WPU) SCHEDULE																
TAG	LOCATION	CAPACITY		CAPACITY	CAPACITY	COOLING	CFM	ELECT	FRICA	L	EDB °F	EWB °F	H	IEAT	WEIGHT (LBS)	REMARKS	BASIS OF DESIGN
		(BTUH)	(BTUH)	(BTUH)	(BTUH)			VOLT/ Ø/HZ	MCA	MOCP			KW	STAGES	(250)		
WPU-1	SHELTER	38200	65200	36800	63000	3 - 6 Ton/Variable	2200	240 / 1 / 60	45	60	95	72	5	1	858	1,2,3	AIRSYS 15V1T4M
WPU-2	SHELTER	38200	65200	36800	63000	3 - 6 Ton/Variable	2200	240 / 1 / 60	45	60	95	72	5	1	858	1,2,3	AIRSYS 15V1T4M
WPU-3	SHELTER	ER 38200 65200 36800 63000 3 - 6 Ton/Variable 2200 240 / 1 / 60 45 60 95 72 5 1 858 1,2,3 AIRSYS 15V1T4M															
	1. COOLING CAPACITY IS BASED ON AMBIENT TEMPERATURE OF 95 F AND 72 F RETURN TEMPERATURE.																
NO.	2. UNIT UTILIZES R410A REFRIGERANT.																
INC	NOTES: 3. UNIT TO BE PROVIDED WITH FACTORY MOUNTED ECONOMIZER.																
	4. WPUs TO REMAIN OPERATIONAL DURING SMOKE / FIRE SIGNAL																
	5. UNITS TO BE CONTROLLED BY SUPPLY AIR TEMPERATURE																

I
S BASIS OF DESIGN
DAYTON #1TDN3

REGISTER SCHEDULE						
TAG	TYPE	MATERIAL	FINISH	MANUFACTURER	MODEL	
SR-3	DUCT-MOUNTED ADJUSTABLE SUPPLY REGISTER	AL	MFR STANDARD	TITUS	272FL	
NOTES:						

airsys multi-controlle	R LEAD/ LAG COM	1MANDS
MODBUS PERAMETER	LEAD UNIT	LAG UNIT
ROOM TEMPERATURE SET-POINT	79 DEG F	82 DEG F
COOLING DIFFERENTIAL	3	3
WPU CONTROLLER SI	TTING REQUIREME	NTS
SETTING	LEAD UNIT	LAG UNIT
LEAD/ LAG CHANGEOVER	7 DAYS	7 DAYS
COOLING SETPOINT	79 DEG F	79 DEG F
HEATING SETPOINT	50 DEG F	50 DEG F
CONTINUOUS BLOWER	ON	OFF
MINIMUM COMPRESSOR RUNTIME	3 MINUTES	3 MINUTES
MINIMUM UNIT OFF TIME	5 MINUTES	5 MINUTES
AVERAGE MULTIPLE SENSORS	YES	YES







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NETW	ORK COMPLIANCE SUBMITTALS	DATE
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PROJECT 1: 169-011	
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MECHANICAL SCHEDULES

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MECHANICAL SCHEDULES
NOT TO SCALE

#### BUILDING AUTOMATION GENERAL NOTES:

- 1. THESE NOTES SHALL COMPLEMENT THE DIVISION 1 SPECIFICATIONS. THE DIVISION 1 SPECIFICATIONS SHALL TAKE PRIORITY OVER THESE NOTES WHEN NECESSARY.
- 2. DIVISION 25 IS COMPOSED OF BOTH THESE DRAWINGS AND THE ASSOCIATED DIVISION 25 CONTROL M SPECIFICATIONS. BOTH DRAWINGS AND SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. SPECIFICATIONS AND BRAWINGS ARE COMPLEMENTARY, AND AS SUCH, ITEMS CALLED FOR IN ONE SHALL BE CONSTRUED AS REQUIRED BY SOOTH DRAWINGS AND SPECIFICATIONS. THE GENERAL CONDITIONS (DIV 01) ARE ALSO INCLUDED IN THESE CONTRACT DOCUMENTS, REFER TO G SHEETS FOR ADDITIONAL PROLIFEMENT.
- 3. THE CONTRACT DRAWINGS INDICATE APPROXIMATE LOCATIONS OF EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL COMPONENT LOCATIONS BASED UPON THE INTENT OF THE DESIGN. SPECIFICATIONS. AND DRAWINGS. MODIFICATION OF PANEL LOCATIONS SHALL BE APPROVED BY ARCHITECT AND COORDINATED WITH ELECTRICAL TRADES.
- 4. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL COMPONENT, MATERIALS, EXACT CABLE ROUTINE, CONDUIT, AND OTHER CONSIDERATIONS THAT MAY BE REQUIRED FOR PROPER SYSTEM OPERATION.
- 5. ALL MATERIAL AND EQUIPMENT USED IN THIS INSTALLATION SHALL BE NEW, AND SHALL HAVE THE APPROPRIATE ULUSTING AND FACTORY MUTUAL [FM] APPROVAL. ALL MATERIALS SHALL COMPLY WITH ALL APPLICABLE LOCAL AND NATIONAL CODES, STANDARDS, REGULATIONS, AND ORDINANCES, CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNITES SPECIFICALLY STATED OTHERWISE.
- 6. CONTRACTOR SHALL PERFORM ALL WORK AND INSTALL ALL COMPONENTS IN A PROFESSIONAL AND WORKMANLIKE MANNER. ALL FINISH WORK TO BE TRUE, LEVEL, AND PLUMB. ALL JOINTS TO BE TIGHT AND CIFEAN
- 7. ALL WORK SHALL BE PERFORMED IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES, STANDARDS AND ALL APPLICABLE AMENDMENTS. WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION THE CONTRACTOR SHALL ISSUE PUBLIC NOTICES.
- 8. ALL EIA-485 MS/TP SEGMENTS SHALL BE DOUBLY TERMINATED BUS TOPOLOGY. PROVIDE CONDUIT AS REQUIRED IN DIVISION 25 SPECIFICATIONS AND WIRE ROUTES TO ACCOMMODATE.
- 9. DEVICES SHALL BE INTERCONNECTED AS SHOWN ON THE NETWORK ARCHITECTURE DIAGRAM.
- 10. 22 AWG BELDEN 3106A OR EQUIVALENT BE UTILIZED FOR ALL MSTP/BACNET NETWORK WIRING. CATSE OR CAT6 SHALL BE USED FOR BACNET IP.
- 11. ALL CONTROL M LOCAL OPERATING NETWORK WIRING INCLUDING BUT NOT LIMITED TO MS/TP AND MODBUS NETWORK CABLE SHALL INCLUDE ONE DESIGNATED SPARE CABLE TO BE PULLED ALONG SIDE THE PRIMARY CABLE.
- 12. USE 18 GAUGE, STRANDED, SHIELDED, TWISTED PAIR WIRE FOR ALL TWO CONDUCTOR SENSOR WIRING.
- 13. SPLICING OF COMMUNICATION CABLE BETWEEN DEVICES IS NOT ALLOWED.
- 14. ALL INTELLIGENT CONTROLLERS RESIDING ON THE BACNET NETWORK SHALL BE BTL COMPLIANT FOR COMPLETE INTEROPERABILITY.
- 15. INSTALL THE QUI OF BIA-485 MS/TP / ETHERNET JACKS AS INDICATED ON THE FLOOR PLAN AND ARCHITECTURE DIAGRAM. EXACT PLACEMENT MAY VARY FROM WHAT IS SHOWN. NETWORK JACKS SHOULD BE LOCATED TO ALLOW EASY ACCESS TO FIELD BUS FOR TROUBLESHOOTING OF DIGITAL CONTROLLERS. INSTALL JACKS WITHIN DCP. NCP OR OTHER ENCLOSURE. THERMOSTATS WITH INTEGRAL MS JACKS MAY BE USED HOWEVER MAY NOT USE THE MS BUS FOR TRANSMISSION OF TEMPERATURE/HUMIDITY DATA TO ASSOCIATED EQUIPMENT (VAV BOX. AHU. ETC).
- 16. INSTALL NETWORK TERMINATORS WITHIN CONTROL PANELS OF ADJACENT END OF LINE CONTROLLERS.
- 17. CONTROL PANELS SHALL HAVE SUFFICIENT QUANTITY OF CONTROLLERS. CONTROL POINTS. AND NETWORK VARABLE RESOURCE COUNT TO SUPPORT BOTH THE PHYSICAL AND NETWORK 1/0 REQUIREMENTS OF EACH DEVICE DESIGNATED FOR THAT PANEL
- 18. STAND ALONE OPERATION IS REQUIRED FOR ALL EQUIPMENT, SEQUENCE OF OPERATION MUST NOT BE DEPENDENT ON LOCAL OPERATING NEWOORE COMMUNICATIONS EXCLUDING OUTSIDE AIR CONDITIONS VARIBALES REQUIRED FOR USE BY MULTIPLE CONTROLLES, BACH PIECE OF MECHANICAL EQUIPMENT MUST BE CONTROLLED BY A SINGLE BACNET CONTROLLER, REMOTE 1/0 MODULES SHALL NOT BE ALLOWED FOR CONTROL POINTS OR POINTS WHICH ARE REQUIRED TO ACHIEVE THE SEQUENCE OF OPERATION WITHOUT THE USE OF A BAC NET ROUTER AND SEPARATE USU NET.
- 19. CONTROL PANELS SHOWN ON DRAWING ARE SCHEMATIC ONLY AND ARE NOT TO SCALE. CONTROLS CONTRACTOR SHALL PROVIDE PANELS AS NECESSARY TO HOUSE THE REQUIRED CONTROL EQUIPMENT. CONTRACTOR SHALL COORDINATE EXACT PLACEMENT OF PANELS WITH SURROUNDING EQUIPMENT.
- 20. CONTROLS CONTRACTOR SHALL VERIFY NODE COUNT PER NETWORK AND CONFORM TO THE ARCHITECTURE GUIDELINES SPECIFIED BY THE MANUFACTURER OF THE NETWORK CONTROLLER AND BY ANSI / ASHRAE BACKNET STANDARDS 135.
- 21. INSTALL THE CENTER OF ALL CONTROL PANELS AT 60" TYPICAL ELEVATION WHEN FEASIBLE.
- 22. GROUND ALL SHIELDS AT ONE END ONLY TO AVOID GROUND LOOPS. TERMINATE GROUND CONDUCTORS FIRST. TERMINATE AT EQUIPMENT WHEN FEASIBLE.
- 23. INDICATED ROUTING OF EIA-485 MS/TF NETWORK WIRING IS SCHEMATIC IN ROUTING ONLY. ACTUAL ROUTING OF WIRING SHALL BE DETERMINED IN THE FILE BY CONTRIOLS CONTRACTOR. RESTORE ALL PROVIDE LABOR NORMATERIAL FOR ALL DRYWALL FLOOR, CONCRETE, CARPET, PAINT AND SIMILAR "FINSH" SURFACES AND MATERIAL FOR ALL DRYWALL FLOOR, CONCRETE, CARPET, PAINT AND SIMILAR "FINSH" SURFACES AFFECTED BY THE SCOPE OF THIS PROJECT.
- 24. FIELD VERIFY ALL THERMOSTAT LOCATIONS FOR FIELD CONFLICTS INCLUDING UNFORESEEN WALL SPACE RESTRICTIONS, WIRING RESTRICTIONS, AND THERMAL INTERFERENCE FROM EQUIPMENT AND OR SUNLIGHT. NOTIFY OWNER OF ALL CONFLICTS PRIOR TO INSTALLATION.
- 25. THE TERMS CONTRACTOR, SI CONTRACTOR, AND CONTROLS CONTRACTOR SHALL BE CONSTRUED ON THE SAME CONTRACTOR FOR THE SCOPE DEFINED IN THE BAS DRAWINGS AND DIVISION 25 SPECIFICATIONS.

#### BUILDING AUTOMATION GENERAL NOTES CONT .:

- ALL BAS CONTROL DEVICES INCLUDING NETWORK CONTROLLERS, DIGITAL CONTROL PANELS, 24Y
  POWER SUPPLIES, AND WORKSTATIONS SHOWN ON BASOT TO BE ON THE CRITICAL COMMUNICATION
  BUS SHALL BE ON CRITICAL/INVERTER POWER CIRCUITS.
- ALL WIRING SHALL BE IN 3/4" EMT REGARDLESS OF LOCATION.
- 28. ALL CONTROLLERS AND RELATED CONTROL EQUIPMENT USED TO CONTROL DAMPERS, FANS, AND AHUS DURINGS SMOKE CONTROL SEQUENCES SHALL BE U. 864/JUKL LISTED FOR SMOKE CONTROL UL 555 DAMPERS SHALL BE PURCHASED WITH APPROVED UL LISTED ACTUATORS.
- 29. ALL DAMPER ACTUATORS SHALL BE BELIMO.

HUB DESIGN EXAMPLE NOT TO SCALE

- 30. CRITICAL POINTS AND ALARMS SHALL BE WIRED NORMALLY CLOSED SO THAT A LOSS OF POWER WILL INDICATE AN ALARM CONDITION OR RELEASE TO NORMAL OPERATION.
- CONTRACTOR SHALL COORDINATE EQUIPMENT PURCHASES WITH THE POINT LISTS IN THESE
  DOCUMENTS. CONTRACTOR SHALL BE REQUIRED TO ADD HARDWARE AND LOGIC TO MEET THE
  POINTS IN THESE DOCUMENTS.
- 32. ALL NEW CONDUIT AND WIRING SHALL NOT BE RAN OVER TECHNICAL SPACES. UTILIZE HALLWAYS AND NON-TECHNICAL SPACES FOR ROUTING OF ALL NEW CONDUIT AND WIRE PATHS.
- 33. THE DIVISION 25 CONTRACTOR SHALL PROVIDE CONTROL RELAYS, AND MAKE 120V POWER CONNECTIONS TO COMBINATION REPSAMCE DAMPERS PROVIDED BY OTHERS, POWER WIRING HOME RUNS AND DISCONNECTS FOR DAMPERS ARE PROVIDED BY DIVISION 26. THE CONTROL OF THE COMBINATION REPSAMCE DAMPERS BY THE B.A.S.
- THE BAS CONTRACTOR SHALL BE REQUIRED TO PROVIDE 120V POWER TO ALL FIELD DEVICES (ACTUATORS, SENSORS, ETC.) WHICH REQUIRE SUCH POWER.
- 35. THE BAS CONTRACTOR IS 100% RESPONSIBLE FOR PROVIDING OR COORDINATING WITH PURCHASING TRADE THE SUPPLY OF NETWORK OR RELAY INTERFACE CARDS, GATEWAYS, MICROPROCESSORS, ETC. TO ACCOMPLISH THE CONTROL AND MONITORING INTENT OF THOSE DRAWINGS.





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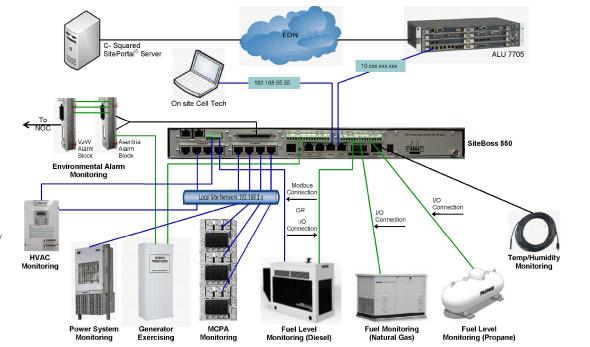
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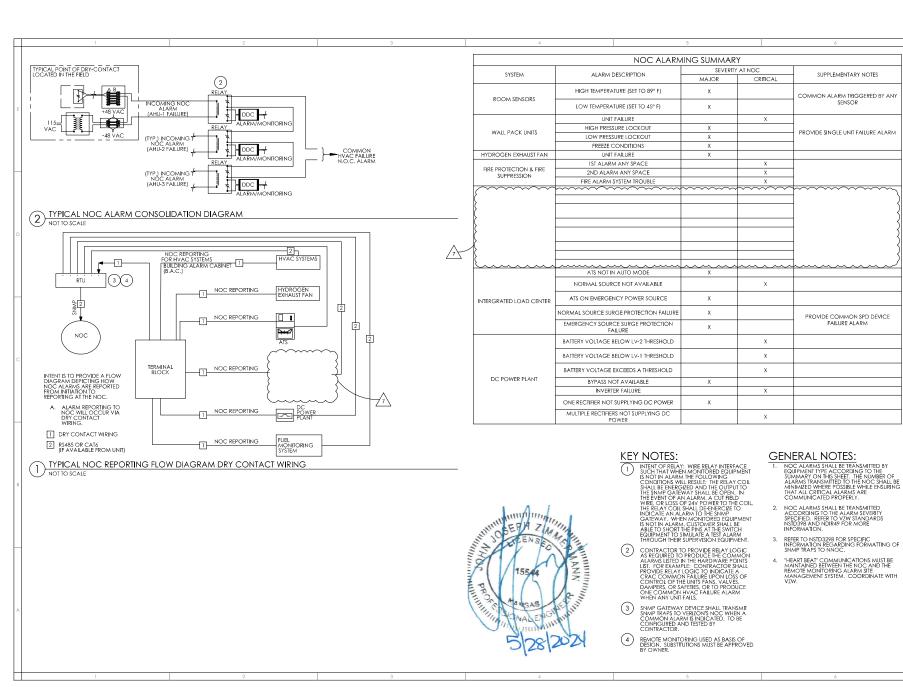
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BUILDING AUTOMATION GENERAL NOTES

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BUILDING AUTOMATION NOC ALARM

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ELECTRICAL
GENERAL NOTES

### GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GESS) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND BI) FOR GROUND ELECTRODE SYSTEMS. TESTING SHALL BEIN ACCORDANCE WITH SPECIFICATION 24782-000-39S-EG00-00001. USE OF OTHER METHODS MUST BE PRE-APPROVED BY CONTRACTOR IN WRITING.
- 3. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TERSULT OF 5 OHMS OR LESS. WHEN ADDING ELECTRODES, CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE BETWEN THE ADDED ELECTRODE AND ANY OTHER EXISTING ELECTRODE EQUAL TO THE BURRED LENGTH OF THE ROD. IDEALLY. CONTRACTOR SHALL STRIVE TO KEEP THE SUPPLANTION DISTANCE EQUAL TO TIME OF THE SUPPLANTION TO SHALL STRIVE TO KEEP THE SUPPLANTION DISTANCE EQUAL TO TIME OF THE BURRED LENGTH OF THE ROUNDED LIGHT OF THE FORMAL STRIVE TO KEEP THE SUPPLANTION DISTANCE EQUAL TO TIME OF THE BURRED LIGHT OF THE FORMAL STRIVE TO KEEP THE SUPPLANTION TO SHALL STRIVE TO KEEP THE SUPPLANTION TO SHALL STRIVE TO ME.
- THE SUBCONTRACTOR 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.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE AND UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR.

  STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC,

  SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BITS EQUIPMENT.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK-TO-BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
- 8. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. IN ALL CASES, BENDS SHALL BE MADE WITH A MINIMUM BEND RADIUS OF 8 INCHES
- 10. EACH INTERIOR BTS CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH #6 AWS STRANDED, GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, EACH OUTDOOR CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE BURIED GROUND RING WITH #2 AWS SOLID TIME JAFED COPPER WIRE.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TIN-PLATED COPPER UNLESS OTHERWISE INDICATED.
- 12. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE. CONNECTIONS TO ABOVE GRADE EXTERIOR UNITS SHALL BE MADE WITH EXOTHERMIC WELDS WHERE PRACTICAL OR WITH 2 HOLE MECHANICAL TYPE BRASS CONNECTIONS WITH STANLESS SIEEL HARDWARE, INCLUDING SET SCREWS. HIGH PRESSURE CRIMP CONNECTIONS MAY ONLY BE USED WITH WRITTEN PERMISSION FROM VERGION MARKET REPRESENTATIVE.
- EXOTHERMIC WELDS SHALL BE PERMITTED ON TOWERS ONLY WITH THE EXPRESS APPROVAL OF THE TOWER MANUFACTURER OR THE CONTRACTORS STRUCTURAL ENGINEER.
- 14. ALL WIRE TO WIRE GROUND CONNECTIONS TO THE INTERIOR GROUND RING SHALL BE FORMED USING HIGH PRESS CRIMPS OR SPLIT BOLT CONNECTORS WHERE INDICATED IN THE DETAILS.
- 15. ON ROOFTOP SITES WHERE EXOTHERMIC WELDS ARE A FIRE HAZARD COPPER COMPRESSION CAP CONNECTORS MAY BE USED FOR WIRE TO WIRE CONNECTORS. 2 HOLE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS SHALL BE USED FOR CONNECTION TO ALL ROOFTOP BIS EQUIPMENT AND STRUCTURAL STEEL.
- 16. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR USING TWO HOLED MECHANICAL TYPE BRASS CONNECTORS AND STANLESS STEEL HARDWARE.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 18. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT OF THE BURIED GROUND RING WITH #2 SOLID AWG TIN-PLATED COPPER GROUND CONDUCTOR.
- 21. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTINING 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 CONDUITONS, NON-METALLIC MATERIAL USED AS PAYOF LASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUITS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE ONDED TO EACH END OF THE METAL CONDUIT WITH LISTED BROWNING FITTINGS.



COMMON VzW DC PLANT RECTIFIER REQUIREMENTS			
RECTIFIER	INPUT FLA CURRENT AT 240 VAC (EACH RECTIFIER)	2 RECT / BRANCH CIRCUIT (PREFERRED APPROACH)	1 RECT / BRANCH CIRCUIT (ALT APPROACH)
VERTIV 3500W (r48-3500E3 or sim)	15.5 AMPS	40A/2P (or 45A/2P) #8 THHN	30A/2P #10 THHN
GE 75A (NE075AC48xxxx or sim)	22 AMPS (MAX)	60A/2P #6 THHN	30A/2P #10 THHN
OTHER - COORD W/ VENDOR	REFER TO CUT SHEETS	REFER TO CUT SHEETS	REFER TO CUT SHEETS



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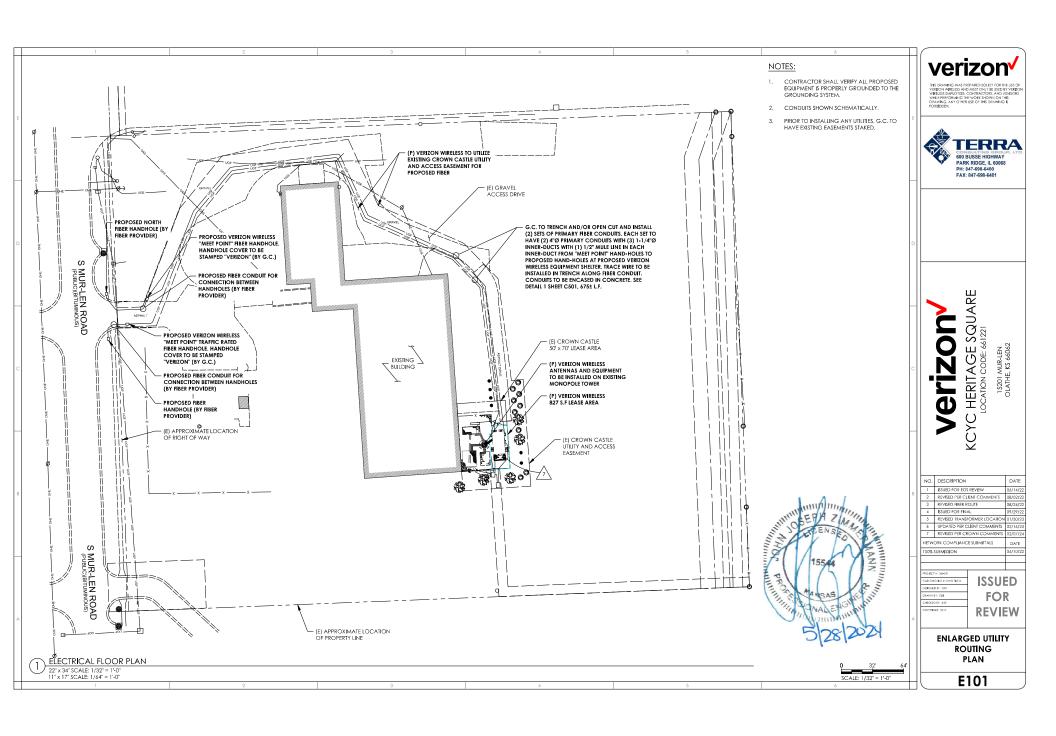


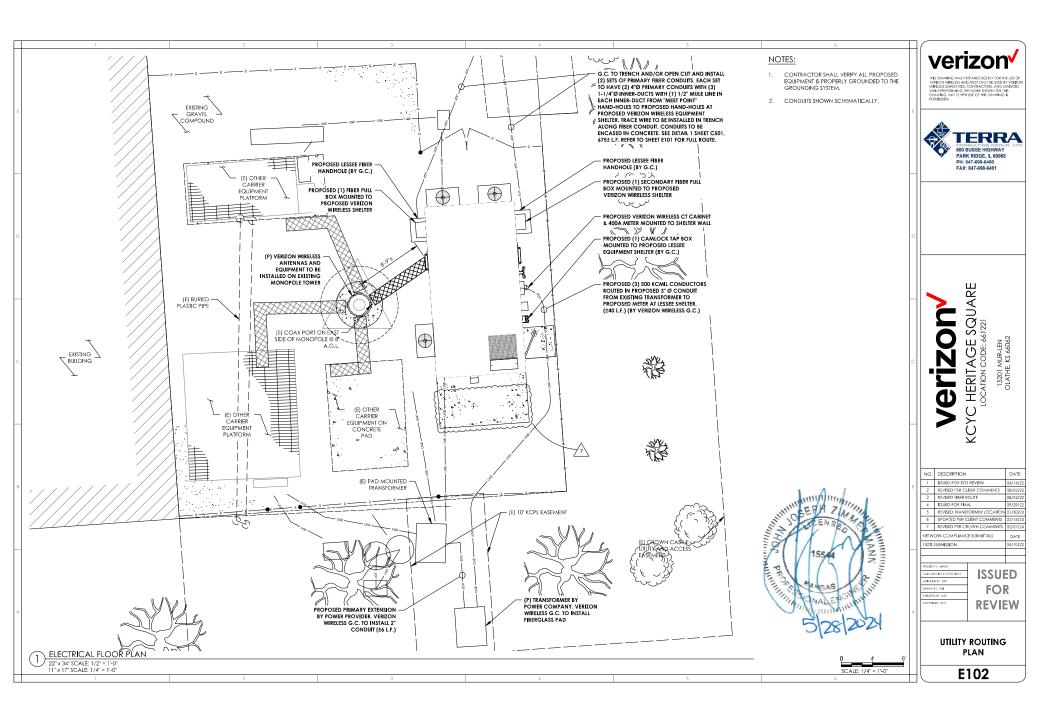


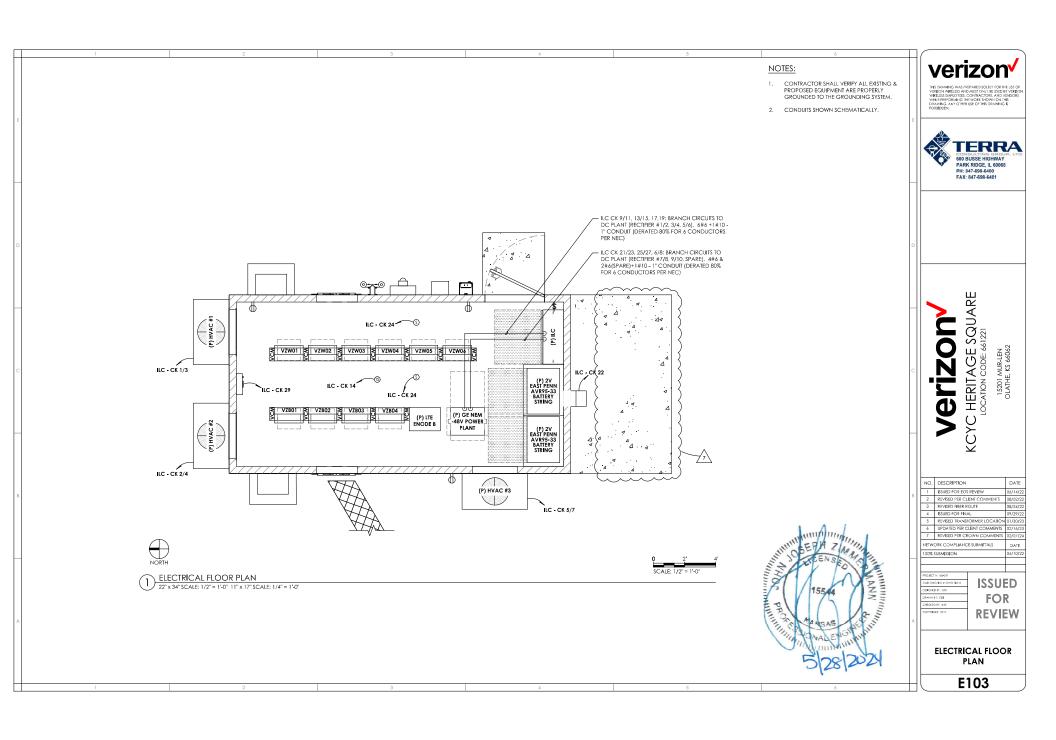
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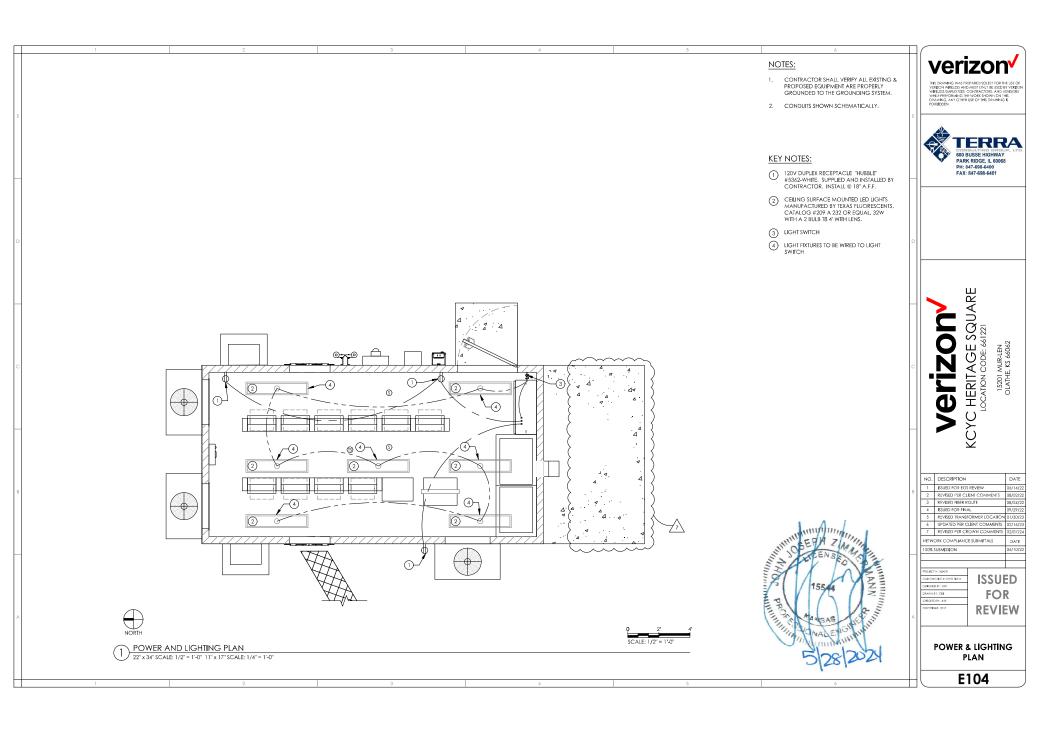
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ELECTRICAL GENERAL NOTES









# KEY NOTES:

- 4"X20"X1/4" TNND INSULATED COPPER GROUND BAR, NON ISOLATED W/ 10' LONG #2 AWG TNND SOLID COPPER WIRE WELDED TAILS (HARGER GBIT 14420VW)
- (2) PROPOSED #2 AWG STRANDED GREEN INSULATED COPPER WIRE FROM LEAD/LAG CONTROLLER TO THE PROPOSED GROUND SYSTEM. GROUND EQUIPMENT PER MANUFACTURERS'S SPECIFICATIONS.
- (3) PROPOSED #2 AWG STRANDED GREEN INSULATED COPPER WIRE FROM PROPOSED EQUIPMENT RACK 10 THE PROPOSED GROUNDING SYSTEM. TYPICAL FOR ALL EQUIPMENT RACKS. GROUND PER MANUFACTURERS SPECIFICATIONS.
- 4 PROPOSED #2 AWG STRANDED GREEN INSULATED COPPER WIRE FROM WALL PACK HVAC UNITS TO THE EXISTING BURIED GROUND RING PER MANUFACTURER'S SPECIFICATIONS.
- (5) PROPOSED #2 AWG SBTC GROUND WIRE FROM THE DC POWER PLANT EQUIPMENT TO THE GROUNDING SYSTEM PER MANUFACTURER'S SPECIFICATIONS.

# KEY NOTES:

- PROPOSED #2 AWG STRANDED GREEN INSULATED COPPER WIRE FROM PROPOSED BATTERY RACK TO GROUNDING SYSTEM PER MANUFACTURER'S SPECIFICATIONS.
- GROUND TOP AND BOTTOM LOUVERS WITH #6 AWG STRANDED GREEN INSULATED TO COPPER WIRE.
- PROPOSED #6 AWG STRANDED GREEN INSULATED COPPER WIRE TO CABLE TRAYS PER MANUFACTURE SPECIFICATIONS.
- 9 #2 TINNED SOLID COPPER CONDUCTOR TO GROUND RING, 2 PLACES
- (10) ELECTRICAL SERVICE ENTRY GROUND
- TWO #2 LEADS FROM THE EGR TO THE MGB LOCATED IN THE SHELTER, CADWELD EGR & DOUBLE HOLE LUGS IN SHELTER.

# NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR
   TO VISIT THE SITE AND UNDERSTAND THE
   EXTENT OF THE GROUNDING WORK AS
   INDICATED BY THE CONTACT DOCUMENTS.
- 2. FIELD LOCATE UNDERGROUND PUBLIC AND OWNER UTILITIES OF ALL TRADES AND GROUNDING PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR REWORK OF ANY DAMAGED UTILITIES AND GROUNDING SYSTEMS.
- ALL CONDUIT AND GROUNDING CONDUCTORS SHALL BE A MINIMUM OF 36" BELOW GRADE UNLESS OTHERWISE NOTED.
- 4. CONNECT TO ALL METALLIC OBJECTS WITHIN
  6' OF EXTERIOR BURIED GROUND RING WITH
  #2 AWG SBTC GROUND WIRE.
- 5. CONNECT ALL MECHANICAL EQUIPMENT BASES AND PIPING SUPPORTS TO BURIED GROUND RING WITH #2 SBTC GROUND WIRE.
- ALL GROUNDING CONDUCTORS SHALL BE SUPPORTED BY NONMETALLIC SUPPORTS.
- 7. GROUNDING LEADS FROM BUILDING EXTERIOR, AND CONNECTIONS TO RING ARE SHOWN FOR REFERENCE ONLY. COORDINATE WITH ALL OTHER DIVISION TO ENSURE THAT ALL METALLIC OBJECTS ON BUILDING, AND BUILDING EXTERIOR RECEIVE GROUND CONNECTION. COORDINATE WITH ALL OTHER TRADES.
- 8. PROVIDE LABELS ON ALL GROUNDING CONDUCTORS IN INSPECTION BOXES INDICATING LEAD NUMBER AND TERMINATION LOCATION AT OPPOSITE END.
- BOND ALL EXTERIOR METALLIC OBJECTS THAT ARE ATTACHED TO THE BUILDING TO THE EXTERIOR RING VIA A #2 SBTC.
- BOND ALL EXTERIOR METALLIC OBJECTS ON THE SITE TO THE EXTERIOR RING VIA A #2
- ALL BURIED CONNECTIONS SHALL BE MADE WITH #2 SBTC.
- 11. G.C. IO ENSUER HAT SHELTER
  MANUFACTURER SUPPLIES SHELTER WITH
  INTERIOR GROUND HALO AND EXISTING
  INSTALLED CABLE TRAY, CONDUITS, LOUVERS,
  DOORS, ETC ARE BONDED TO GROUND
  SYSTEM, NOTIFY VERZION WIRELESS
  IMPLEMENTATION ENGINEER IF THIS IS NOT
  PERFORMED.





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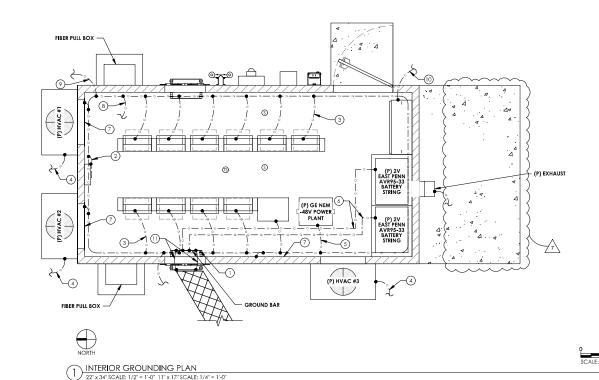




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100%	06/10/22		

ı	PROJECT 1: 160-011	
ı	CAD DWG RLE F: DWG RLE F	ISSUFD
	DESIGNED BY: XIX	100010
	DRAWN BY: CEB	FOR.
	CHECKED BY: XXX	101
	COPYNGHE 2017	REVIEW

INTERIOR GROUNDING PLAN



LEGEND		
SYMBOL	DESCRIPTION	
8	5/8" DIAMETER × 10'-0" LONG COPPER CLAD GROUND ROD (HARGER-5810)	
0	5/8" DIAMETER X 10"-0" LONG COPPER CLAD GROUND ROD WITH INSPECTION WELL	
	#2 AWG TNND SOLID BARE COPPER WIRE MINIMUM 42" BELOW GRADE (HARGER-L2)	
UE	UNDERGROUND ELECTRICAL	
ut	UNDERGROUND TELEPHONE	
F	UNDERGROUND FIBER	
<b></b> -	EXOTHERMIC WELD	
OE	OVERHEAD ELECTRICAL SERVICE	
—от—	OVERHEAD TELEPHONE SERVICE	

# KEY NOTES:

- 1 #2 AWG TNND SOLID BARE COPPER CONDUCTOR 42" BELOW GRADE (TYPICAL) MINIMUM 24" BENDING RADIUS
- ENCLOSURE GROUND (TYP.) IN 1/2"

  DIAMETER SCHEDULE 40 PVC CONDUIT
- GROUND EQUIPMENT ENCLOSURE HVAC WITH MECHANICAL CLAMP (SEE DETAIL, SHEET E502).
- #2 AWG TNND SOLID BARE COPPER CONDUCTOR 42" BELOW GRADE (SEE DETAIL, SHEET E502)
- MAINTAIN TWO FOOT DISTANCE OFF OF STRUCTURES.
- GROUND TELEPHONE SERVICE ENTRANCE (SEE DETAIL, SHEET E502).
- ELECTRIC METER AND ELECTRIC SERVICE GROUNDING (SEE DETAIL SHEET E503), COORDINATE ALTERNATE WITH PM

# KEY NOTES:

- (8) 4"X20"X1/4" TNND INSULATED COPPER GROUND BAR, NON ISOLATED WITH 10.0" LONG #2 AWG TNND SOLID COPPER WIRE WELDED TAILS (HARGER GBIT 14420VW)
- 5/8" DIAMETER X 10'-0" LONG COPPER CLAD GROUND ROD (HARGER-5810) (SEE DETAIL, SHEET E501) WITH EXOTHERMIC CONNECTION
- (B) GROUND CHAIN LINK FENCE (TYPICAL) EXOTHERMIC CONNECTION [TYPE VS] GROUND FENCE POSTS WITHIN 6 FEET OF ENCLOSURE AND 25 FEET OF TOWER. (SEE DETAIL. SHEET ESOI)
- (1) GATE JUMPERS (SEE DETAIL, SHEET E501)
- (2) BOND SERVICE DISCONNECT TO GROUND ROD AND EQUIPMENT GROUND RING (SEE DETAIL, SHEET E501)

# KEY NOTES:

- (3) TWO #2 LEADS FROM THE EGR TO THE MGB LOCATED IN THE SHELTER, CADWELD AT EGR AND DOUBLE HOLE LUGS IN SHELTER.
- (14) ELECTRIC SERVICE ENTRY GROUND
- (15) INSPECTION WELL (SEE DETAIL, SHEET E501
- #2 TINNED SOLID COPPER CONDUCTOR TO GROUND RING, 2 PLACES
- BOND TOWER GROUND RING TO EQUIPMENT GROUND RING WITH #2AWG TIND SOLID COPPER CONDUCTOR IN 2

# NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND UNDERSTAND THE EXTENT OF THE GROUNDING WORK AS INDICATED BY THE CONTACT DOCUMENTS.
- FIELD LOCATE UNDERGROUND PUBLIC AND OWNER UTILITIES OF ALL
  TRADES AND GROUNDING PRIOR TO ANY EXCAVATION. CONTRACTOR
  SHALL BE RESPONSIBLE FOR REPLACEMENT OR REWORK OF ANY
  DAMAGED UTILITIES AND GROUNDING SYSTEMS.
- 3. ALL CONDUIT AND GROUNDING CONDUCTORS SHALL BE A MINIMUM OF 36" BELOW GRADE UNLESS OTHERWISE NOTED.
- CONNECT TO ALL METALLIC OBJECTS WITHIN 6' OF EXTERIOR BURIED
- CONNECT ALL MECHANICAL EQUIPMENT BASES AND PIPING SUPPORTS TO BURIED GROUND RING WITH #2 SBTC GROUND WIRE.
- ALL GROUNDING CONDUCTORS SHALL BE SUPPORTED BY
  NONMETALLIC SUPPORTS
- GROUNDING LEADS FROM BUILDING EXTERIOR, AND CONNECTIONS TO RING ARE SHOWN FOR REFERENCE ONLY. CORDINATE WITH ALL OTHER DIVISION TO ENSURE THAT ALL METALLIC OBJECTS ON BUILDING, AND BUILDING EXTERIOR RECEIVE GROUND CONNECTION. COORDINATE WITH ALL OTHER TRADES.
- BOND ALL EQUIPMENT SHELTER EXTERIOR METALLIC OBJECTS THAT ARE ATTACHED TO THE BUILDING TO THE EXTERIOR RING VIA A #2 SBTC.
- BOND ALL EXTERIOR METALLIC OBJECTS ON THE SITE TO THE EXTERIOR RING VIA A #2 SBTC.
- 10. ALL BURIED CONNECTIONS SHALL BE MADE WITH #2 SBTC.
- 11. ALL GROUNDING CONNECTIONS SHALL BE MADE BY THE EXCITIERMIC PROCESS CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPILES, ETC. ALL CABLE TO GROUND RODS, GROUND RODS SPILES AND LIGHTNING PROTECTION SYSTEM AS INDICATED, GROUND FOUNDATION ONLY AS INDICATED BY MA. ALL MATERIALS USED (MOLDS, WELDING, METAL, TOOLS, ETC.) SHALL BE BY EXCITIERMIC PROCESS AND INSTALLED FER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES, GROUND CONDUCTOR SHALL HAVE A MINIMUM 24 BROWNER ADULS.
- 12. ALL EXOTHERMIC CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (2) TWO COATS OF SHERWIN-WILLIAMS CALVITE (WHITE) PARTI 5,800% (OR EQUAL) OR SHERWIN-WILLIAMS SILVERBRITE (ALUMINUM) B59S11 (OR
- ALL ELECTRICAL & MECHANICAL GROUND CONNECTIONS SHALL HAVE ANTI-OXIDANT COMPOUND APPLIED TO CONNECTION.
- 14. FENCE/GATE: GROUND FENCE POSTS WITHIN 6 FEET OF ENCLOSURE AND 25 FEET OF TOWER AS INDICATED ON DRAWINGS. GROUND EACH GATE POST AND CORNER POST, GROUND CONNECTIONS TO FENCE POSTS SHALL BE MADE BY THE ENDIFFENCE POSTS SHALL BE MADE BY THE ENDIFFENCE POSTS SHALL BE MADE TO STEED FER MANUFACTURERS' RECOMMENDATIONS AND PROCEDURES. ALL OTHER CONNECTIONS FOR THE GROUND GRID SYSTEM SHALL BE MADE BY THE EXCHERNIC PROCESS. AND INSTALLED FER MANUFACTURERS' SEPCOMAGNITATIONS AND BYSTALLED FER MANUFACTURERS'
- AFTER INSTALLATION OF THE CANOPY AT THE DOOR, GC/EC IS TO BOND
  THE CANOPY TO THE DOOR FRAME WITH A #2 CONDUCTOR. USE
  DOUBLE-LUG CONNECTION. PREP AND PAINT SURFACE TO MATCH
- 16. UTILITY COMPANY COORDINATION: ELECTRICAL CONTRACTOR SHALL CONFIRM THAT ALL WORK IS NA CCORDANCE WITH THE RULES OF THE LOCAL UTILITY COMPANY BEFORE SUBMITTING THE BID. THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES SUPPLYING SERVICE TO THIS PROJECT AND SHALL DEFERMINE FROM THEM ALL EQUIPMENT AND CHARGES WHICH THEY WILL REQUIRE AND SHALL INCLIDE THE COST IN THE RID.
- GROUND TEST: GROUND TESTS SHALL BE PERFORMED AS REQUIRED BY LESSEE STANDARD PROCEDURES. GROUND GRID RESISTANCE SHALL NOT EXCEED 5 OHMS.
- 18. CONTRACTOR SHALL SUBMIT THE GROUND RESISTANCE TEST REPORT AS
- FOLLOWS:

  1. ONE (1) COPY TO OWNER REPRESENTATIVE
- ONE (1) COPY TO OWNER REPI
   ONE (1) COPY TO ENGINEER
- 3. ONE (1) COPY TO KEEP INSIDE EQUIPMENT ENCLOSURE



THIS DRAWING WAS PREPARED SOLLEY FOR THE USE O VERTION WRELESS AND MUST ONLY BE USED BY VERTION WIRELESS EMPLOYEES, CONTRACTORS, AND VENDORS WHELE PERFORMING THE WORK SHOWN ON THIS DRAWING, ANY OTHER USE OF THIS DRAWING IS PROMICED.

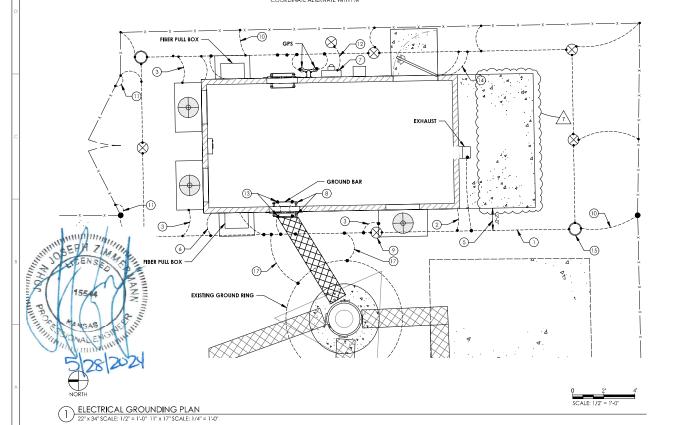


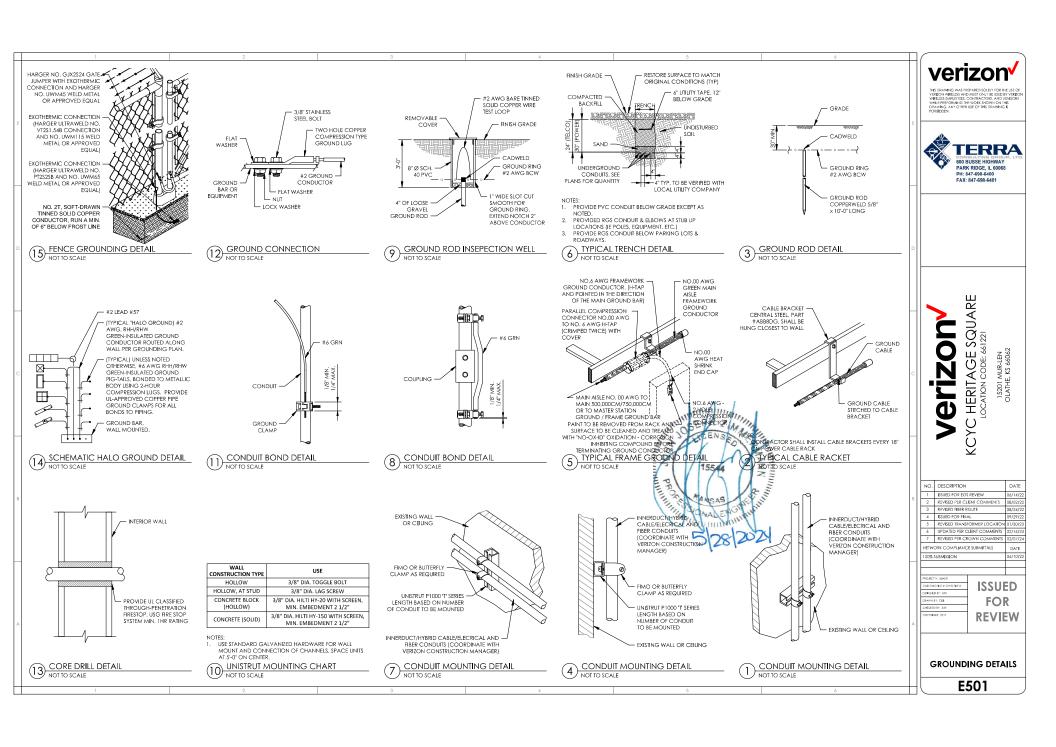


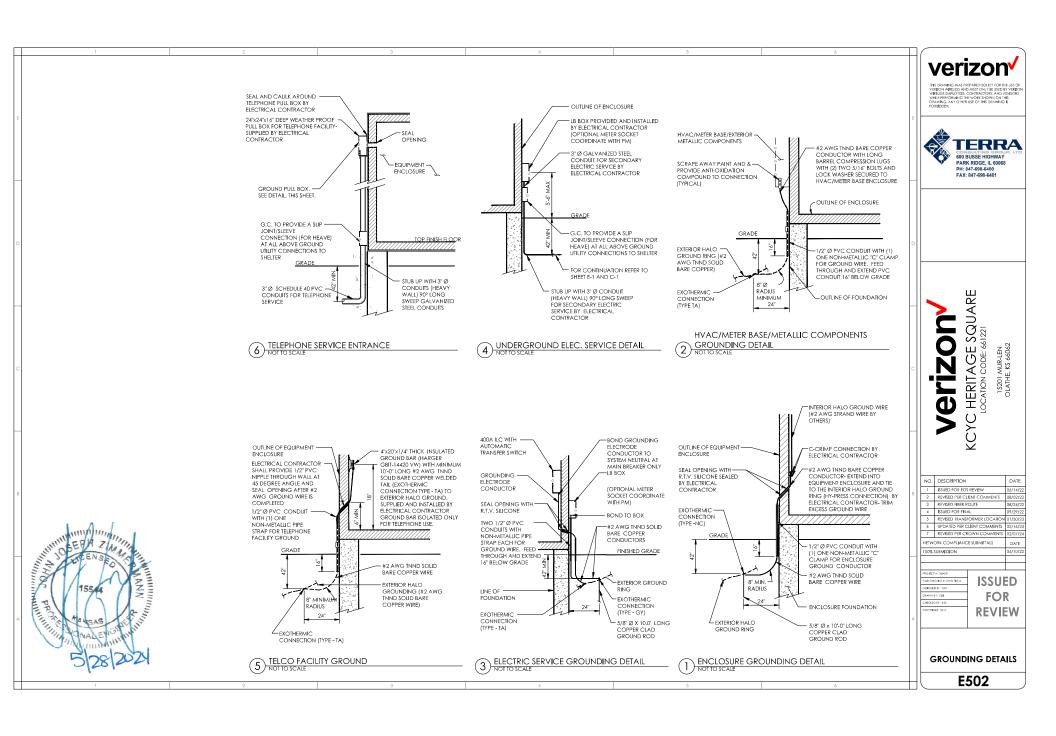
NO.	DESCRIPTION	DATE
1	ISSUED FOR EOS REVIEW	06/14/22
2	REVISED PER CLIENT COMMENTS	08/02/22
3	REVISED FIBER ROUTE	08/24/22
4	ISSUED FOR FINAL	09/29/22
5	REVISED TRANSFORMER LOCATION	01/30/23
6	UPDATED PER CLIENT COMMENTS	02/16/23
7	REVISED PER CROWN COMMENTS	02/07/24
NETW	ORK COMPLIANCE SUBMITTALS	DATE
100% SUBMISSION		06/10/22

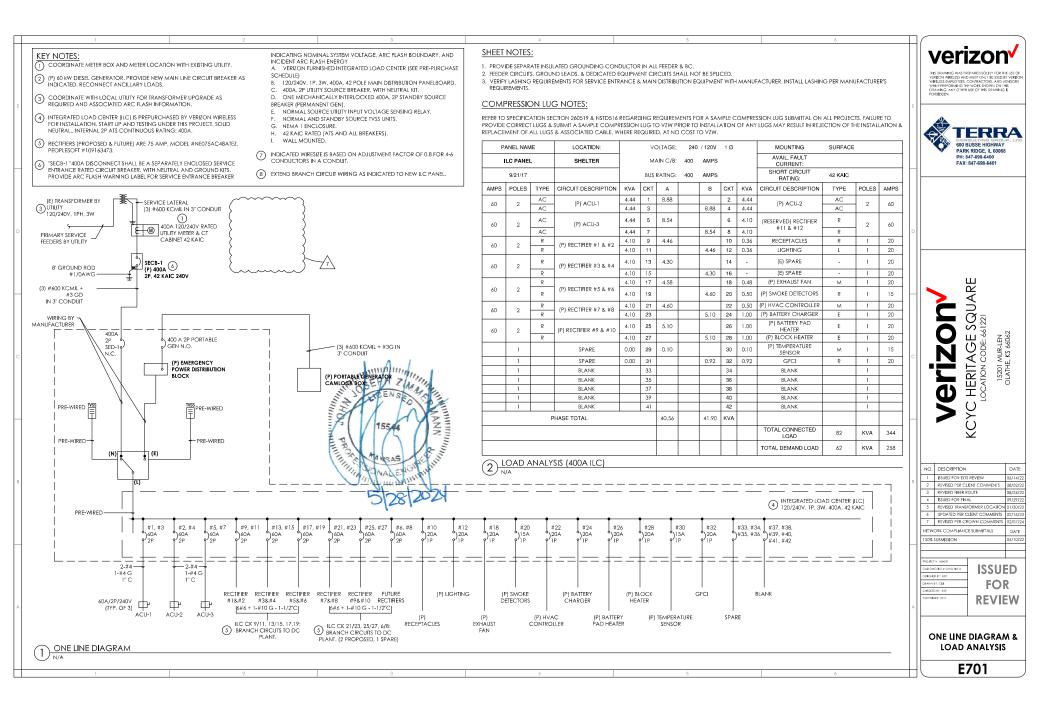
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DOWG BLE F: DWG BLE F	ISSUED
IGNED BY: XIX	100010
AWN SY: CES	FOR
ECKED BY: XXX	1010
PYNGHE: 2017	REVIEW

EXTERIOR GROUNDING PLAN











May 30, 2024

RE: Special Use Permit – SU23-0007

On Friday April 5, 2024, Selective Site Consultants on behalf of Verizon Wireless conducted a neighborhood meeting to learn about the development proposal by Verizon Wireless to expand an existing cell tower compound at 15201 South Mur-Len Road.

SSC along with Verizon Wireless were present at the neighborhood meeting held at First Baptist Church of Olathe (2024 East 151st Street Olathe, KS 66062) on April 5, 2024, from 5:30-6:30.

No property owners showed up regarding the tower compound expansion.

Sincerely,

Rob Goetz | SSC |

7171 W. 95th Street, Suite 600 Overland Park, Kansas 66212 O 913.438.7700 c 913.961.0995 f 913.438.7777