



To: Franklin County Board of County Commissioners
From: Pat Toth
Department: Planning & Building
Date: Wednesday, January 7, 2026

AGENDA ITEM NARRATIVE

Consider approval of Special Use Permit Application #2511-0011 (Selective Site Consultants) to allow for the construction, operation and maintenance of a 305-foot high telecommunication tower in an A-1 (Agriculture) Zoning District. The current use of the property is for agricultural with an existing residential dwelling.

BACKGROUND

Said property is currently known as 3751 Nevada Road and is located on the East side of Nevada Road, approximately one-half (1/2) mile North of Sand Creek Road, in the Northwest Quarter (NW ½) of the Southwest Quarter (SW ¼) of Section 16, Township 16 South, Range 20 East.

The proposed tower structure is 305 feet high with five (5) additional feet in height for the lightning rod and other related apparatus. The tower would be a guyed tower with antennas and related equipment for a wireless communication site. The tower is being built for use by Verizon Wireless to provide broadband services. There would be space available at 290' elevation and 280' elevation for future carriers.

The lease site is approximately 100'x100' in size and would be surrounded with a 70'x70' chain-link fence for all the equipment. A new 12' wide gravel access road from Eisenhower Road to the compound will be added. The power and fiber will run underground from the site to the nearest utility pole to the fenced lease area.

Said property is currently known as 3751 Nevada Road and is located on the East side of Nevada Road, approximately one-half (1/2) mile North of Sand Creek Road, in the Northwest Quarter (NW ½) of the Southwest Quarter (SW ¼) of Section 16, Township 16 South, Range 20 East.

The Planning Commission recommended the following conditions for approval of the Special Use Permit:

1. That the tower base be enclosed with a 70'x70' chain link fence with security barbed wire. Access to the enclosed area shall be locked at all times except when being used by company employees.
2. That lighting on the tower shall be in compliance with Federal Aviation Administration lighting standards.
3. That the communication facilities comply with all requirements of the Federal Communication Commission.
4. That a sign be placed on the security fence around the tower base to include a telephone number of a responsible party in the event of an emergency.
5. That the tower base and access easement be kept free of noxious weeds, litter and debris.
6. That the tower and related facilities comply with the County Building Codes and Permits.
7. Two (2) on-site parking spaces shall be provided and maintained on an all-weather surfaced area in accordance with the standards set forth in Article 21 of the County Zoning Regulations.

8. That the tower be located 310 feet from any property line or buildings.
9. The location of the entrance must be approved through the Public Works Department.
10. That the Special use permit shall be null and void by operation of law if said permit has not been initiated and utilized by commencing the activity or use at the site specified in said permit within one (1) year of the date of approval.

Notice of the hearing letters were sent to six (6) surrounding property owners as required by K.S.A 12-757(b). The Planning Department had not received any comments for or against the proposed special use permit request and no one appeared at the Public Hearing.

The Planning Commission has recommended approval of the Special Use Permit to allow for construction, operation and maintenance of a 305-foot high telecommunication tower in an A-1 (Agriculture) Zoning District based on the findings and subject to the ten (10) conditions listed in the Resolution by a unanimous vote of those members present.

STAFF RECOMMENDATION

Staff recommends that the Board of County Commissioners approve Special Use Permit Application #2511-0011 (Selective Site Consultants) to allow for construction, operation and maintenance of a 305-foot high telecommunication tower in an A-1 (Agriculture) Zoning District based on the findings and subject to the ten (10) conditions cited in the Resolution recommended by the Planning Commission.

SPECIFIC ACTION REQUESTED

An Affirmative motion in support of this item would read as follows: "I make a motion approve Special Use Application #2511-0011 (Selective Site Consultants) to allow for construction, operation and maintenance of a 305-foot high telecommunication tower in an A-1 (Agriculture) Zoning District based on the findings and subject to the ten (10) conditions cited in the attached Resolution".

ATTACHMENTS

Applicant Submittals (52)
Countywide Map
Zoning Map
Floodplain and Road Classification Map
Aerial Photo (2)



10/27/2025

Franklin County Planning and Building
1428 S. Main, Suite 5
Ottawa, KS 66067

**RE: STC Towers (Verizon Wireless - Anchor Tenant):
Parcel ID: 030-095-16-00-003.01-0(Franklin County, KS)**

To Whom it May Concern,

Selective Site Consultants, Inc., as a consultant to STC Towers and on behalf of Verizon Wireless did review and did provide to Verizon all collocation opportunities that were available in the area of Verizon's coverage needs

Regards,

A handwritten signature in black ink that reads "Jeffrey M. Konkol".

Jeff Konkol | SSC |
7171 W. 95th Street, Suite 600
Overland Park, Kansas 66212
p 913.340.8578
www.ssc.us.com



Via Federal Express and uploaded into the portal

November 06, 2025

Pat Toth, Planning & Building Director
Franklin County
315 S. Main
Ottawa, KS 66067

RE: Special Use Permit

Dear Mr. Toth,

Please find enclosed and Application for a Special Use Permit we are filing on behalf of and as agent for STC Towers, LLC ("STC Towers").

Please consider this letter as supplemental to the Application. We have also provided an additional (11) copies as we ask you to provide a copy to each member of the Franklin County Planning Commission Meeting.

Cell Site Name: Nevada HRR
Cell Site Number: STC202-KS
Cell Site Address: 3751 NEVADA ROAD, OTTAWA, KS 66067

Tower Information:

Latitude: 38° 39' 29.90" N (NAD 83)
Longitude: 95° 12' 37.49" W (NAD 83)
Ground Elevation: 936' AMSL
Overall Structure Height: 310'-0" AGL
Tower Height: 305'-0" AGL
Tower Type: GUYED TOWER
Applicant Center Line: 300'-0" AGL

Landlord:

Robert G. & Donita L. Callahan
3751 Nevada Road, Ottawa, KS, 66067

State Law:

In 2021 Kansas enacted K.S.A. 66-2019 (copy attached) addressing siting of wireless infrastructure and states:

(a) The Kansas legislature finds and declares that:

- (1) The permitting, construction, modification, maintenance and operation of wireless facilities are critical to ensuring that all citizens in the state have true access to broadband and other advanced technology and information;
- (2) these facilities are critical to ensuring that businesses and schools throughout the state remain competitive in the global economy;
- (3) wireless telecommunications facilities that enable broadband services have a significant economic benefit; and
- (4) the permitting, construction, modification, maintenance and operation of these facilities, to the extent specifically addressed in this section, are declared to be matters of statewide concern and interest.

STC Towers is a “wireless infrastructure provider” as that term is defined in K.S.A. 66-2019(b)(20), in that it builds wireless support structures (which means a freestanding tower as defined in 66-2019(b)(20)) but is not a wireless service provider. It is proposing to build this tower for use by Verizon Wireless, which is a wireless service provider, to provide broadband services. The Franklin County Planning Commission is considered an “Authority” as defined in K.S.A. 66-2019(b)(5) in that is a “commission” that is authorized to make decisions concerning an application for a new wireless support structure.

Per Zoning Regulations of Franklin County, Section S.3a General Provisions for Towers, please note that Selective Site Consultants, Inc., as a consultant to STC Towers and on behalf of Verizon Wireless, did review and provide to Verizon all collocation opportunities that were available in Verizon’s coverage needs. Please accept our written statement to that effect. Kansas State Statute 66-2019 states an authority cannot deny an application because there are other locations available or collocation alternatives.

Special Use Permit Criteria

Article 19 Special Use Permits

Section 19-2. Application for Special Use Permit

19-2.01 An application for a Special Use Permit may be initiated by a property owner or agent representing a property owner to the County Planning and Building Office on forms available from the Planning Director.

19-2.02 The application shall include the following:

- a. Filing fee as established by the County Commissioners.

Applicant Response: \$270.00 fee paid.

b. Legal description of the property.

Applicant Response: Please refer to the Kansas Quit-Claim Deed dated December 18, 2017. N.W. ¼ of the S.W. ¼ of Sec. 16, Twp. 16, Rng. 20, Franklin County, Kansas

c. Names of all property owners having a legal interest in the property.

Applicant Response: Robert G. & Donita L. Callahan with an address at 3751 Nevada Road, Ottawa, KS 66067

d. Description of the proposed activity.

Applicant Response: STC Towers requests a special use permit to install a 305'0" guyed tower with antennas and related equipment for a wireless communications site. The overall structure height will be 310'0" with a lease space of 100' x 100'. This facility will be surrounded with a 70' x 70' chain-link fence for all equipment. STC Towers has met the setback requirements stated in the Zoning Regulations of Franklin County, Kansas section S. Radio, Television, Telecommunication and Microwave Towers 4 Development Standards For Towers a) *"The location of a ground-mounted tower must be such that it is setback at least equal to the height of the tower to the nearest property line measured from the center of the tower."* Please refer to the construction drawings Overall Site Plan Sheet: C-1.0.

e. Composite site plan showing the major details of the proposed development, including the location of all structures, fences, driveways, utilities, drainages, slopes, parking, landscaping and other physical features.

Applicant Response: Please refer to the construction drawings Overall Site Plan Sheet # C-1.0 and Enlarged Site Plan Sheet # C-1.1.

f. A statement from the utility services regarding their capabilities to serve the development.

Applicant Response: Pat Toth, Planning & Building Director, confirmed this is not applicable for water resources. Evergy: 888.471.5275 is servicing the site.

g. If private on-site sanitation is proposed, a description of the sanitation system, including size and location of the proposed facility

Applicant Response: Pat Toth confirmed this is not applicable; no sanitation is proposed.

19-3.04 In considering any application for a Special Use Permit, the Planning Commission

shall give consideration that the proposed use is in conformance with the Comprehensive Plan, complies with other adopted standards, is in the interest of the public health, safety and general welfare and the following additional factors:

a. The character of the neighborhood.

Applicant Response: The character of the neighborhood of the proposed site's location is consistent with the zoning and use district designation of A-1 (Agricultural District).

b. The zoning and uses of nearby properties.

Applicant Response: This proposed site's location and the nearby properties are zoned: A-1 (Agriculture District). Per Zoning Regulations of Franklin County, Kansas Section S.4e) "*All towers may be located in areas zoned commercial, industrial or agricultural.*"

c. The suitability of the subject property to the proposed use.

Applicant Response: This site's location meets the engineering needs of Verizon Wireless's communication network.

d. Mitigation measures to minimize impacts to surrounding properties or services.

Applicant Response: The applicant will follow all zoning and permitting requirements to remain in compliance with the Franklin County Ordinance and Comprehensive Plan to minimize the impact on surrounding areas. IE: STC Towers has met the setback requirements and will meet any required landscaping or screening requirements.

19-3.09 In approving a Special Use Permit, the Board of County Commissioners may require such reasonable conditions as deemed necessary to mitigate impacts to the community, maintain the character of the neighborhood and to protect the public health, safety and general welfare.

Applicant Response: Acknowledged

Additional Information

All work shall be performed, and materials installed in accordance with the current editions of the codes adopted by Franklin County. Nothing in the plans is to be construed to permit work not conforming to these codes:

1. International Building Code
2. International Mechanical Code
3. ANSI/TIA-222 Structural Standard
4. NFPA 780 – lightning protection code
5. National Electric Code

There is room for two (2) future tenants:

1. Proposed anchor tenant, Verizon Wireless Antennas and Sector Frame Mounts to be located at the 300' elevation.
2. Proposed Future Carrier antennas and sector frame mounts to be located at the 290' elevation.
3. Proposed Future Carrier antennas and sector frame mounts to be located at the 280'.

In consideration of the foregoing, we respectfully request that the Special Use Permit be granted.

Very truly yours,

Tricia Becker

Tricia Becker
Selective Site Consultants, Inc.



10/27/2025

Franklin County Planning and Building
1428 S. Main, Suite 5
Ottawa, KS 66067

RE: Special Use Permit Application
Wireless Telecommunications Tower
Franklin County Parcel ID: 030-095-16-00-003.01-0
Address: 3751 Nevada Road, Ottawa, KS 66067

To Whom It May Concern,

STC Towers, LLC and SSC, Inc. are authorized to submit the Special Use Permit Application for the above project on behalf of Robert G. and Donita L. Callahan.

Sincerely,


Signature

Robert G. Callahan

NEW/VM
UTILITY
EASEMENT

ACCESS/UTILITY
EASEMENT

VZWLANDSPACE

PENETRATIONS

RR/BBU

ANTENNAS

FIBER

POWER/
GROUNDING

HYBRID A
COAX CABLES



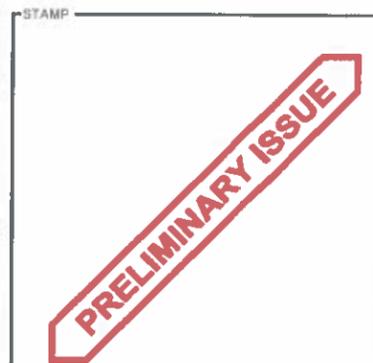
APPLICANT SITE NAME:
MTPL NEVADA
RELHR

MDG LOCATION ID:
TBD

APPLICANT PROJECT #:
TBD

PROJECT:
RAWLAND

DRAWING DESCRIPTION:
PRELIMINARY CD



ENGINEERING LICENSE
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	18098	CIVIL
CG CHRISTOPHER GIANNOTTI	26673	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	6250	ELECTRICAL

AERIAL MAP

SITE INFORMATION

DRAWING INDEX



PROJECT: RAWLAND
CELL SITE NAME: MTPL NEVADA RELHR
CELL SITE ADDRESS: 3751 NEVADA ROAD
OTTAWA, KS 66067
LANDLORD: ROBERT G. & DONITA L. CALLAHAN
3751 NEVADA ROAD
OTTAWA, KS 66067
CONTACT: ROBERT G. & DONITA L. CALLAHAN
PHONE: (913) 980-6373
TOWER INFORMATION:
LATITUDE: 38° 39' 29.90" N (NAD 83)
LONGITUDE: 95° 12' 37.49" W (NAD 83)
GROUND ELEV: 936' AMSL
OVERALL STRUCTURE HT: 310'-0" AGL
TOWER HEIGHT: 305'-0" AGL
TOWER TYPE: GUYED TOWER
APPLICANT CL: 300'-0" AGL
CONTACT: NETWORK REAL ESTATE MANAGER
PHONE: (913) 344-2896 (VERIZON WIRELESS)

SHEET NO.	SHEET TITLE	DISC.
T-1.0	TITLE SHEET	C/E
	SURVEY (BY OTHERS)	
C-0.0	GRADING PLAN	C
C-1.0	OVERALL SITE PLAN	C
C-1.1	ENLARGED SITE PLAN	C
C-2.0	EQUIPMENT LAYOUT	C/E
C-2.1	EQUIPMENT ELEVATIONS	C
C-3.0	DETAILS	C
C-3.1	UTILITY H-FRAME EQUIPMENT PLACEMENT	C/E
C-3.2	METER CENTER RACK DETAIL	C/E
C-4.0	EQUIPMENT PAD DETAILS	C/E
C-5.0	COMPOUND FENCE DETAILS	C
C-5.1	ACCESS GATE DETAILS	C
C-5.2	GUY WIRE FENCE DETAILS	C
C-5.3	CANOPY DETAILS	C
C-6.0	SIGNAGE DETAILS	C
EQ-1.0	EQUIPMENT CABINET DETAILS	C
EQ-1.1	DETAILS (1 OF 2)	C
EQ-1.2	DETAILS (2 OF 2)	C
ANT-1.0	TOWER ELEVATION & ANTENNA INFORMATION	C
ANT-2.0	RF DIAGRAM	C
ANT-3.0	EQUIPMENT DETAILS (1 OF 3)	C
ANT-3.1	EQUIPMENT DETAILS (2 OF 3)	C
ANT-3.2	EQUIPMENT DETAILS (3 OF 3)	C
E-1.0	OVERALL UTILITY PLAN	E
E-1.1	ENLARGED UTILITY PLAN	E
E-2.0	UTILITY RISER DIAGRAM	E
E-2.1	ELECTRICAL ONE-LINE DIAGRAM	E
E-2.2	FIBER ONE-LINE DIAGRAM & UTILITY DETAILS	E
E-2.3	UTILITY DETAILS	E
G-1.0	COMPOUND GROUNDING PLAN	E
G-1.1	GUY WIRE GROUNDING DETAIL	E
G-2.0	EQUIPMENT GROUNDING LAYOUT	E
G-3.0	GROUNDING RISER DIAGRAM	E
G-4.0	GROUNDING DETAILS (1 OF 3)	E
G-4.1	GROUNDING DETAILS (2 OF 3)	E
G-4.2	GROUNDING DETAILS (3 OF 3)	E
GN-1.0	GENERAL NOTES	C/E
SP-1.0	SPECIFICATIONS (1 OF 7)	C
SP-1.1	SPECIFICATIONS (2 OF 7)	C
SP-1.2	SPECIFICATIONS (3 OF 7)	C
SP-1.3	SPECIFICATIONS (4 OF 7)	C
SP-1.4	SPECIFICATIONS (5 OF 7)	C
SP-2.0	SPECIFICATIONS (6 OF 7)	E
SP-2.1	SPECIFICATIONS (7 OF 7)	E

PROJECT INFORMATION:
INSTALL COMMUNICATIONS EQUIPMENT & TOWER FOR A COMMUNICATIONS SITE.

SITE LOCATION QR CODE

CONSULTING TEAM

JURISDICTION COMPLIANCE



ENGINEERING:
SSC, INC
7171 WEST 95TH STREET, SUITE 600
OVERLAND PARK, KANSAS 66212
PHONE: (913) 438-7700
FAX: (913) 438-7777
SSC SITE ID: SSC-29747
PROJECT ID: P-042655
CLIENT MANAGER:
JEFF KONKEL
A&E PROJECT MANAGER:
TYSEN WEISHAAR
LEAD ENGINEER:
ROBERT JENSEN
LEAD ELECTRICAL:
SHELTON KEISLING

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

- INTERNATIONAL BUILDING CODE
- INTERNATIONAL MECHANICAL CODE
- ANSI/TIA-222 STRUCTURAL STANDARD
- NFPA 780 - LIGHTNING PROTECTION CODE
- NATIONAL ELECTRICAL CODE



Know what's below.
Call before you dig.
www.call811.com

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

APPLICANT



PLANS PREPARED FOR



PLANS PREPARED BY



DRAWING NOTICE

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SUBMITTALS

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	09/30/25	AWD	A
REISSUED PER CLIENT COMMENTS	11/04/25	AWD	B

MLA SITE NAME

STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR
TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

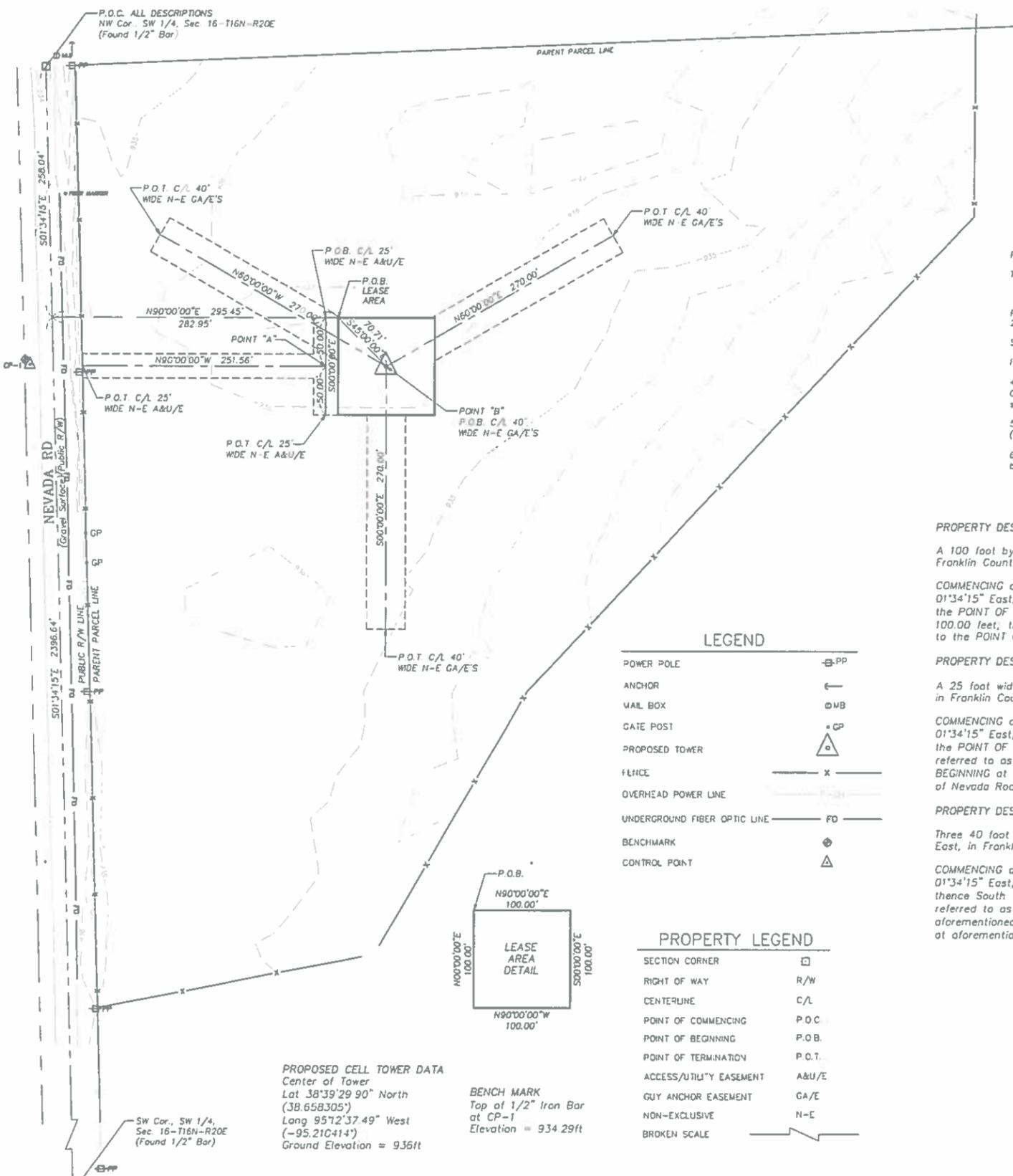
SHEET DESCRIPTION

TITLE SHEET

SHEET #

T-1.0

STC202-KS NEVADA
PART OF THE SW 1/4, SECTION 16-T16S-R20E,
IN FRANKLIN COUNTY, KANSAS



P.O.C. ALL DESCRIPTIONS
 NW Cor., SW 1/4, Sec. 16-T16S-R20E
 (Found 1/2" Bar)

P.O.T. C/L 25'
 WIDE N-E A&U/E

P.O.B. C/L 25'
 WIDE N-E A&U/E

P.O.B. LEASE AREA

P.O.T. C/L 40'
 WIDE N-E GA/E'S

P.O.T. C/L 40'
 WIDE N-E GA/E'S

P.O.T. C/L 25'
 WIDE N-E A&U/E

PROPOSED CELL TOWER DATA
 Center of Tower
 Lat 38°39'29.90" North
 (38.658305)
 Long 95°12'37.49" West
 (-95.210414)
 Ground Elevation = 936ft

BENCH MARK
 Top of 1/2" Iron Bar
 at CP-1
 Elevation = 934.29ft

LEGEND

POWER POLE	PP
ANCHOR	MB
MAIL BOX	MB
GATE POST	GP
PROPOSED TOWER	△
FENCE	X
OVERHEAD POWER LINE	OP
UNDERGROUND FIBER OPTIC LINE	FO
BENCHMARK	⊕
CONTROL POINT	△

PROPERTY LEGEND

SECTION CORNER	□
RIGHT OF WAY	R/W
CENTERLINE	C/L
POINT OF COMMENCING	P.O.C.
POINT OF BEGINNING	P.O.B.
POINT OF TERMINATION	P.O.T.
ACCESS/UTILITY EASEMENT	A&U/E
GUY ANCHOR EASEMENT	GA/E
NON-EXCLUSIVE	N-E
BROKEN SCALE	— —

Notes:
 Bearings shown herein are referenced to Grid North of the Kansas State Plane Coordinate System of 1983 (NAD 83), (2011 ADJ.), North Zone. They are obtained by static GPS observations and Rinex File submittals for NGS Opus solutions.
 Vertical Datum = NAVD83 using GEOID12B
 This survey's purpose is to establish and describe a Lease Area and associated Easements. It is not a boundary survey of the Parent Parcel.
 The Lease Area and associated Easements lie entirely within the Parent Parcel.
 During this survey's fieldwork, there were no visible encroachments in the Lease Area or associated Easements.
 The Non-Exclusive Access/Utility Easements terminates at Public Right of Way.
 ** An utility locate was requested on 8-18-2025, as Ticket No. 25423228.
 The utilities shown on this drawing were developed from the information available (existing utility maps, aboveground observations, and/or surface markings placed on the ground by the utility company or a representative thereof). This company has not attempted to excavate or go below the surface to locate utilities. It does not extend or imply a guarantee or warranty on the exact location of or complete inventory of utilities in this area. The contractor shall be responsible for verifying the location and depth of all utilities (whether shown or not) before excavation or construction and protecting them from damage.

PROPERTY DESCRIPTION: PARENT PARCEL (AS PROVIDED)
 The Northwest Quarter of the Southwest Quarter of Section 16, Township 16, Range 20, Franklin County, Kansas.
 Property information shown herein was provided by Stewart Title Guaranty Company, Commitment No. 2697967, effective August 11, 2025 at 8:00am.
 Schedule B-ii information:
 Items 1 thru 3, and Items 8, thru 10, are general exceptions and are therefore not the type to be depicted herein.
 4. Deed of Trust executed by Robert G. Callahan 1/4/a Robbie G. Callahan and Donita L. Callahan, a married person to Frontier Farm Credit, FLCA, dated 09/25/2018 and recorded 10/01/2018 as Document No. 201803295 in Book 595 at Page 304, stating that it secures \$67,000.00 and interest (Real Estate Mortgage, not the type to be depicted hereon)
 5. Easement granted to Rural Water District No. 5, as more fully set forth in the document recorded as in Misc. Book 154 at page 216. (Blanket in nature, unable to plot hereon.)
 6. Affidavit of Affiliation of Manufactured/Mobile Home recorded 06/14/2006 under, in Misc. Book 230, at Page 761 (Not the type to be depicted hereon)

PROPERTY DESCRIPTION: LEASE AREA (AS SURVEYED)
 A 100 foot by 100 foot Lease Area, situated in the Southwest Quarter of Section 16, Township 16 South, Range 20 East, in Franklin County, Kansas, more particularly described as follows:
 COMMENCING at the Northwest Corner of said Southwest Quarter; thence along the West line of said Southwest Quarter, South 01°34'15" East, a distance of 258.04 feet; thence leaving said West line, North 90°00'00" East, a distance of 295.45 feet to the POINT OF BEGINNING; thence North 90°00'00" East, a distance of 100.00 feet; thence South 00°00'00" East, a distance of 100.00 feet; thence North 90°00'00" West, a distance of 100.00 feet; thence North 00°00'00" East, a distance of 100.00 feet to the POINT OF BEGINNING. Containing 10,000 square feet.
PROPERTY DESCRIPTION: NON-EXCLUSIVE ACCESS/UTILITY EASEMENT (AS SURVEYED)
 A 25 foot wide Access/Utility Easement, situated in the Southwest Quarter of Section 16, Township 16 South, Range 20 East, in Franklin County, Kansas, lying 12.50 feet on each side of the following described centerline:
 COMMENCING at the Northwest Corner of said Southwest Quarter; thence along the West line of said Southwest Quarter, South 01°34'15" East, a distance of 258.04 feet; thence leaving said West line, North 90°00'00" East, a distance of 295.45 feet to the POINT OF BEGINNING; thence South 00°00'00" East, a distance of 50.00 feet to a point hereinafter referred to as POINT "A"; thence continuing South 00°00'00" East, a distance of 50.00 feet to the POINT OF TERMINATION; BEGINNING at aforementioned POINT "A"; thence North 90°00'00" West, a distance of 251.56 feet to the East Right of Way line of Nevada Road (Public Right of Way) and the POINT OF TERMINATION.
PROPERTY DESCRIPTION: NON-EXCLUSIVE GUY ANCHOR EASEMENTS (AS SURVEYED)
 Three 40 foot wide Guy Anchor Easements, situated in the Southwest Quarter of Section 16, Township 16 South, Range 20 East, in Franklin County, Kansas, lying 20.00 feet on each side of the following described centerlines:
 COMMENCING at the Northwest Corner of said Southwest Quarter; thence along the West line of said Southwest Quarter, South 01°34'15" East, a distance of 258.04 feet; thence leaving said West line, North 90°00'00" East, a distance of 295.45 feet; thence South 45°00'00" East, a distance of 70.71 feet to the POINT OF BEGINNING of said centerlines, said point hereinafter referred to as POINT "B"; thence North 60°00'00" West, a distance of 270.00 feet to the POINT OF TERMINATION; BEGINNING at aforementioned POINT "B"; thence North 60°00'00" East, a distance of 270.00 feet to the POINT OF TERMINATION; BEGINNING at aforementioned POINT "B"; thence South 00°00'00" East, a distance of 270.00 feet to the POINT OF TERMINATION.

CERTIFICATION:
 I HEREBY CERTIFY THAT A SURVEY WAS MADE BY ME, OR UNDER MY DIRECT SUPERVISION, ON THE GROUND OF THE LEASE AREA, AND ASSOCIATED EASEMENT PREMISES HEREIN DESCRIBED, AND THE RESULTS OF SAID SURVEY ARE REPRESENTED HEREON TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.
PRELIMINARY
 BRADLEY D. HARKIN KS-LS1604
 DATE: _____

SITE

LOVELACE & ASSOCIATES
 Land Surveying - Land Planning
 Telecommunications Surveys
 929 SE 3rd Street Lee's Summit, Missouri 64063
 Phone: (816) 347-9997 Fax: (816) 347-9979

SURVEY PROVIDED BY:

SURVEY PROVIDED FOR:

SCALE 1" = 60'
 60' 0 60' 120'

FLOOD NOTE:
 According to my interpretations of Community Panel No. 20059C0090E of the Flood Insurance Rate Map for Franklin County, Kansas, the subject property is in Flood Zone "X", i.e. "areas determined to be Outside the 0.2% annual chance floodplain".

SITE ID: STC202-KS
 SITE NAME: NEVADA
 SITE LOCATION:
 3751 NEVADA RD
 OTTAWA, KS 66067
 LA PROJECT NO: 25150
 DRAWN BY: B.D.H.
 CHECKED BY: J.B.L.
 DATE: 9-23-25
 FIELDWORK DATE: 9-8-25

Certificate of Authority:
 Kansas - LS-154

SHEET NUMBER
 1 OF 1

NEW/EXISTING UTILITY EASEMENT
 ACCESSIBILITY EASEMENT
 VZM LANDSPACE
 PENETRATIONS
 RR/MBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES

NOTE:
 SLOPES SHALL NOT EXCEED 3:1
 (3 FEET HORIZONTAL TO 1 FOOT VERTICAL)

GRADING NOTES:

1. STRIP THE GROUND OF ALL VEGETATION AND DEBRIS.
2. PROOF ROLL WITH LOADED TANDEM TO IDENTIFY SOFT SPOTS.
3. REMOVE SOFT SPOT MATERIAL AND COMPACT TO 95% AT STRUCTURE, 90% ELSEWHERE.
4. INSTALL GEOTEXTILE FABRIC ON PREPARED SUBGRADE.
5. PLACE AND COMPACT 6" AGGREGATE SURFACING.
6. SEE SPECIFICATIONS DRAWINGS FOR REQUIREMENTS OF BACKFILL MATERIAL.
7. MAINTAIN REASONABLE DUST CONTROL METHODS DURING CONSTRUCTION.
8. ENTIRE DRIVE LENGTH SHALL BE POSITIVE DRAINING DURING, AND AT COMPLETION OF CONSTRUCTION.
9. CONTRACTOR SHALL OBTAIN ANY SITE SPECIFIC SOILS REPORTS AND FOLLOW ALL RECOMMENDATIONS. A DISCREPANCY BETWEEN CONSTRUCTION DRAWINGS AND SOILS REPORT, THE GEOTECHNICAL REPORT SHALL GOVERN. SSC TO BE NOTIFIED OF DISCREPANCY.

SILTATION NOTES:

1. SILTATION CONTROL DEVICES TO REMAIN IN PLACE UNTIL ADEQUATE VEGETATION GROWTH INSURES NO FURTHER EROSION.
2. SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENTATION WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 FENCE HEIGHT.
3. ATTACHMENT OF GEOTEXTILE FABRIC TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. SILT FENCING TO BE USED AT ALL AREAS OF EXCAVATION.

PRELIMINARY ISSUE

ENGINEERING LICENSE
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KM V KEVIN M. VANMAELE	22195	CIVIL
RE J ROBERT E. JENSEN	18996	CIVIL
CG CHRISTOPHER GIANNOTTI	26673	CIVIL
PJD PATRICK J. DAVIS	25067	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
DW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT



PLANS PREPARED FOR



PLANS PREPARED BY



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SUBMITTALS

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	09/30/25	AWD	A
REISSUED PER CLIENT COMMENTS	11/04/25	AWD	B

MLA SITE NAME

STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR
 TBD

SITE ADDRESS

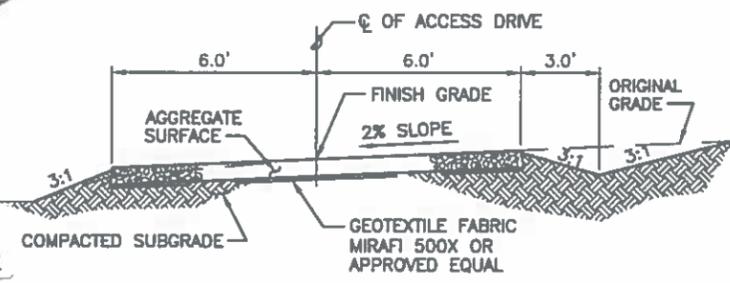
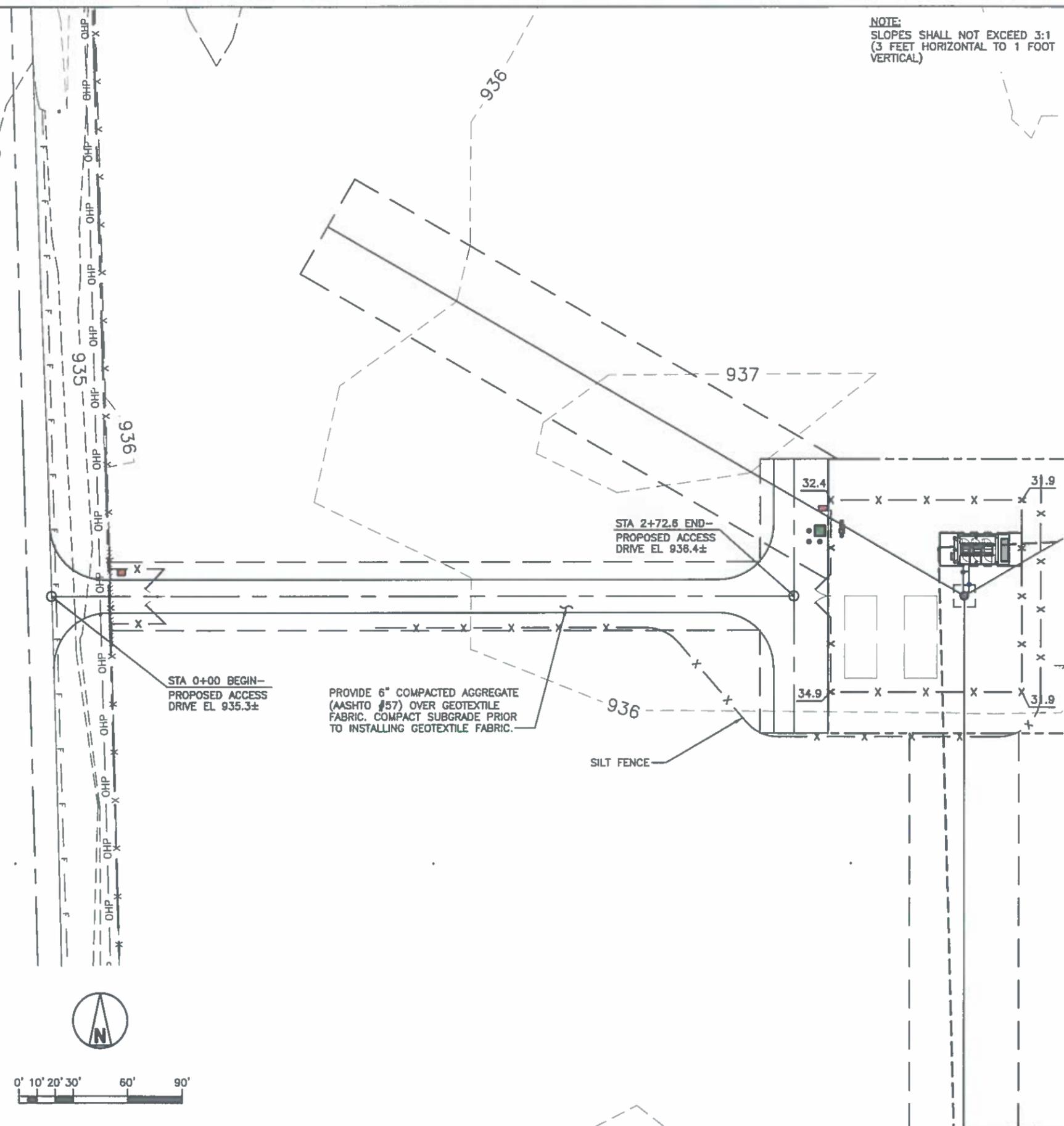
3751 NEVADA ROAD
 OTTAWA, KS 66067

SHEET DESCRIPTION

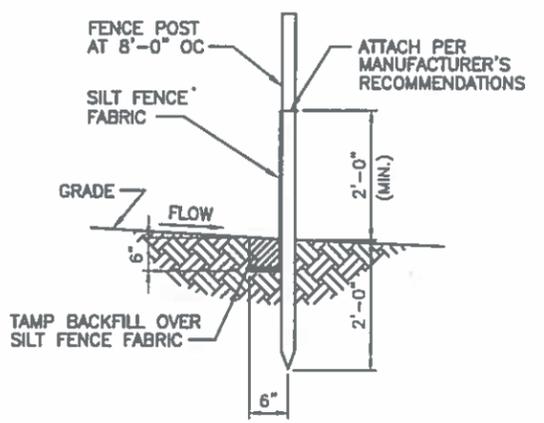
GRADING PLAN

SHEET #

C-0.0



TYPICAL DRIVE SECTION
 NO SCALE



SILT FENCE DETAIL
 NO SCALE



SCALE: 1:30 (22"x34")
 SCALE: 1:60 (11"x17")

GRADING PLAN

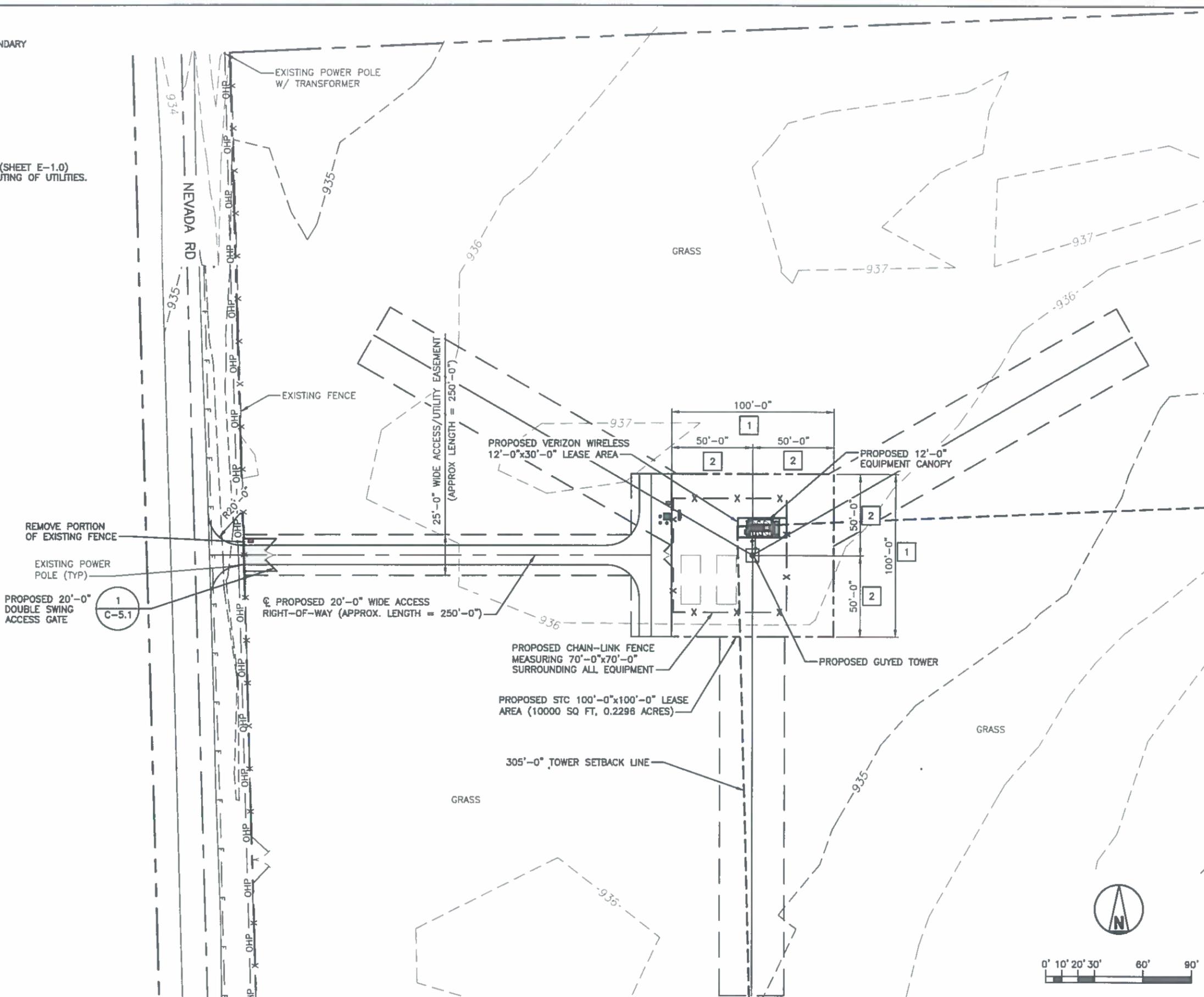
- NEW/VZW UTILITY EASEMENT
- ACCESS/UTILITY EASEMENT
- VZW LANDSPACE
- PENETRATIONS
- RR/BBU
- ANTENNAS
- FIBER
- POWER/ GROUNDING
- HYBRID & COAX CABLES

KEYED NOTES:

- 1 PROPOSED LEASE BOUNDARY
- 2 CENTER OF TOWER

NOTE:

SEE OVERALL UTILITY PLAN (SHEET E-1.0) FOR SIZES, LENGTHS & ROUTING OF UTILITIES.



STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE

STATE OF KANSAS

PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	18096	CIVIL
CG CHRISTOPHER GIANNOTTI	29673	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DWW DAVID W. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	8250	ELECTRICAL

APPLICANT



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MLA SITE NAME:

STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR
TBD

SITE ADDRESS:

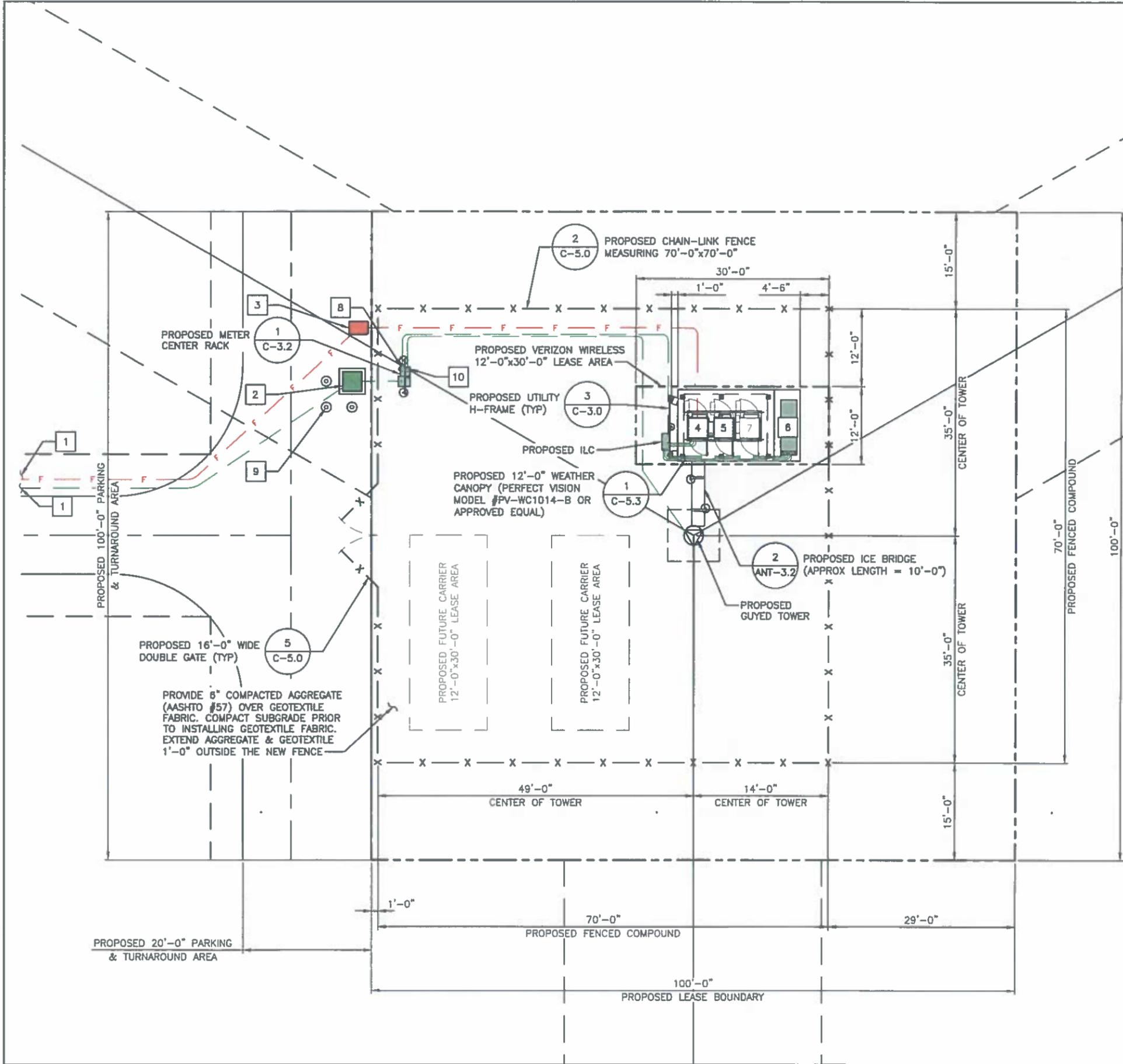
3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION:	SHEET #
OVERALL SITE PLAN	C-1.0

Scale: 1:30 (22"x34")
Scale: 1:60 (11"x17")

OVERALL SITE PLAN

NEW/2W UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZV LANDSPACE
 PENETRATIONS
 RR/HGBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



KEYED NOTES:

- 1 SEE ENLARGED UTILITY PLAN (SHEET E-1.1) FOR ROUTING OF UTILITIES.
- 2 PROPOSED PAD MOUNTED UTILITY TRANSFORMER
- 3 PROPOSED 3'-0"x2'-0"x2'-0" TRAFFIC RATED FIBER HANDHOLE (COVER SHALL BE STAMPED "VERIZON")
- 4 PROPOSED EQUIPMENT CABINET
- 5 PROPOSED BATTERY CABINET
- 6 PROPOSED GENERATOR
- 7 FUTURE CABINET
- 8 PROPOSED METER CENTER
- 9 PROPOSED BOLLARD (SEE SHEET EQ-1.2, DETAIL 1)
- 10 PROPOSED TOWER LIGHTING CONTROLLER

STAMP
PRELIMINARY ISSUE

ENGINEERING LICENSE
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	18058	CIVIL
CG CHRISTOPHER GIANNOTTI	25073	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT



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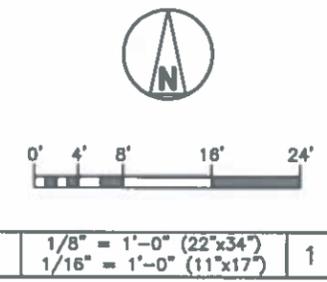
MLA SITE NAME
 STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
 MTPL NEVADA RELHR
 TBD

SITE ADDRESS
 3751 NEVADA ROAD
 OTTAWA, KS 66067

SHEET DESCRIPTION
 ENLARGED SITE PLAN

SHEET #
 C-1.1

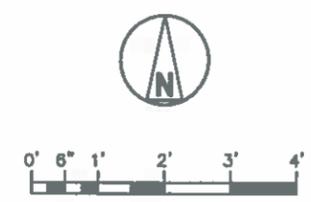
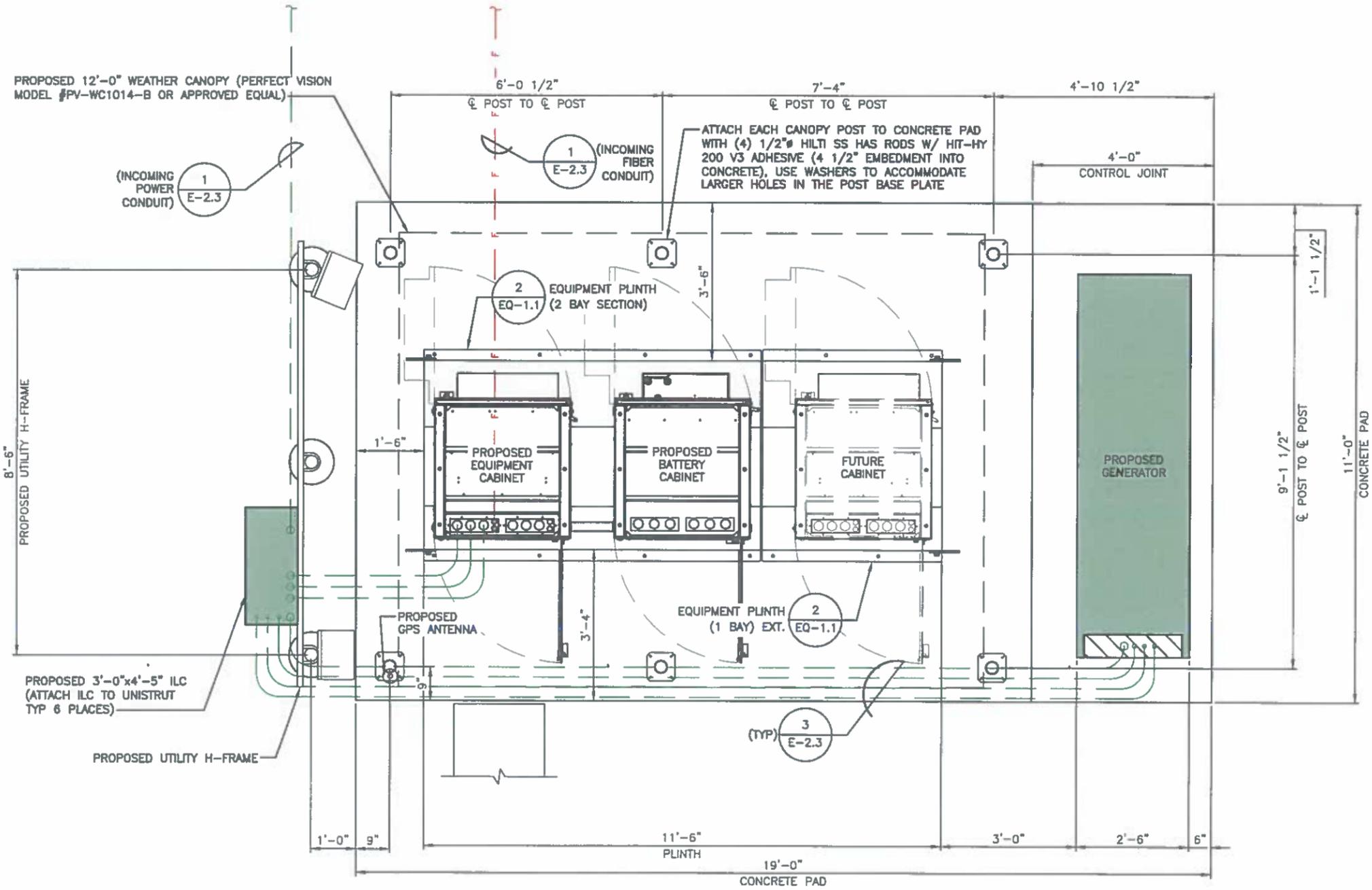


ENLARGED SITE PLAN

1/8" = 1'-0" (22"x34")
 1/16" = 1'-0" (11"x17")

NEW VZW UTILITY EASEMENT
 ACCESSIBILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RRHBBU
 ANTENNAS
 FIBER
 POWER & GROUNDING
 HYBRID & COAX CABLES

- NOTES:**
1. SEE OVERALL UTILITY PLAN (SHEET E-1.0) FOR ORIENTATION & CONTINUATION OF CONDUITS.
 2. EQUIPMENT LAYOUT MAY BE ROTATED AS REQUIRED.
 3. INSTALL ICE BRIDGE PER ENLARGED SITE PLAN (SHEET C-1.1).



EQUIPMENT LAYOUT

3/4" = 1'-0" (22"x34")
 3/8" = 1'-0" (11"x17")

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE

STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	18096	CIVIL
COJ CHRISTOPHER GIANNOTTI	29873	CIVIL
PJD PATRICK J. DAVIS	23687	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT



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APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR
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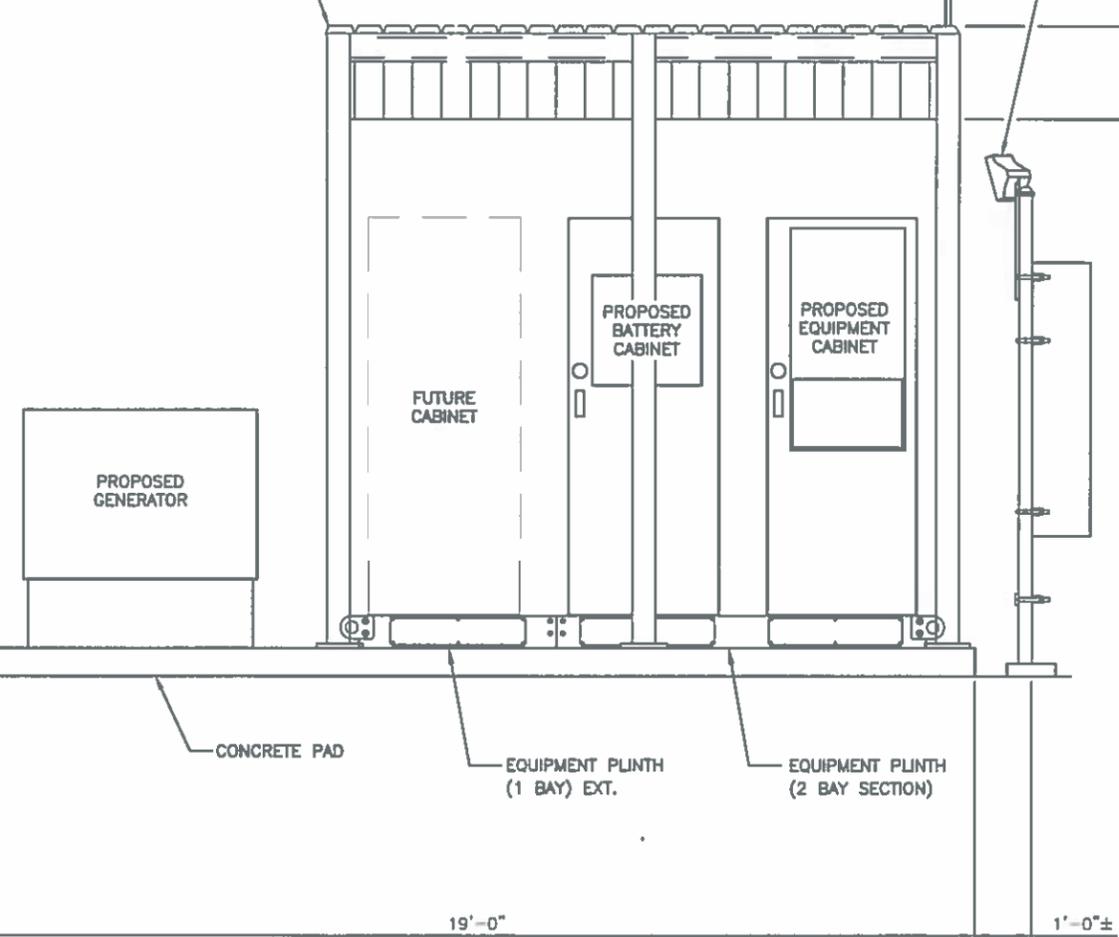
SITE ADDRESS

3751 NEVADA ROAD
 OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
EQUIPMENT LAYOUT	C-2.0

NEW/2W UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZWLANDSPACE
 PENETRATIONS
 RR/HBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES

WEATHER CANOPY PERFECT VISION PV-WC1014-B OR EQUAL

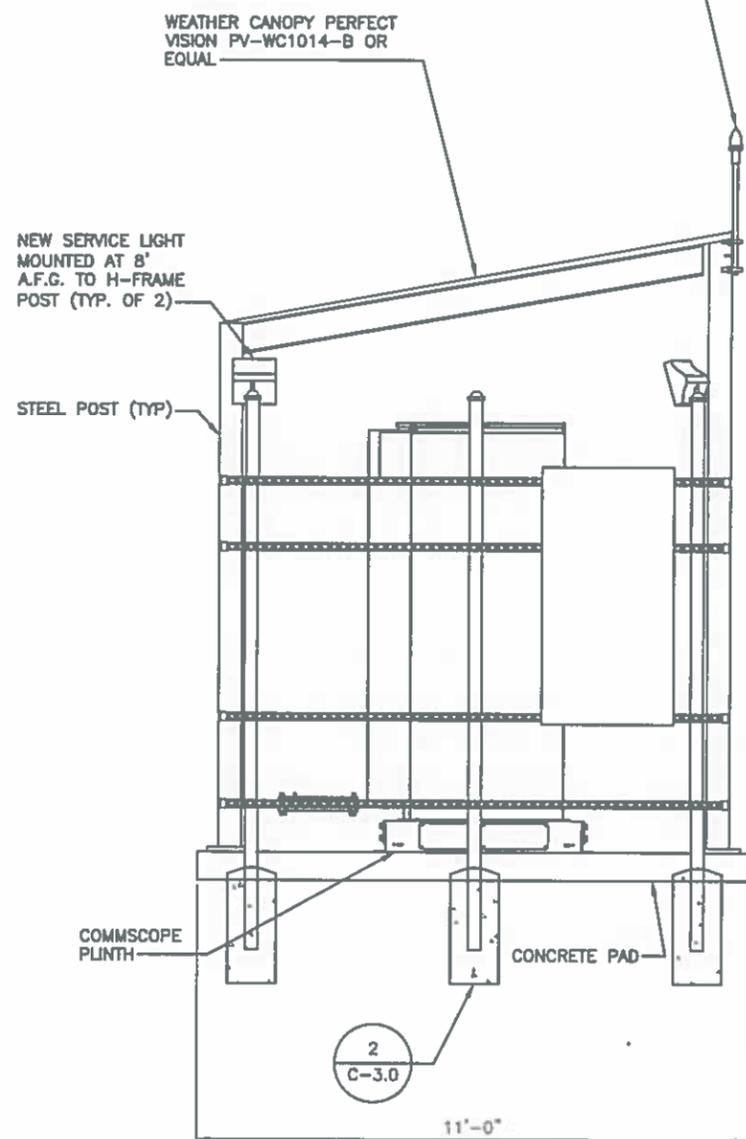


FRONT EQUIPMENT ELEVATION

NO SCALE

2

MOUNT THE GPS ANTENNA ON THE SIDE OF THE CANOPY CLOSEST TO THE EQUIPMENT TO SHORTEN THE CABLE LENGTH



SIDE EQUIPMENT ELEVATION

NO SCALE

1

STAMP
PRELIMINARY ISSUE

ENGINEERING LICENSE
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16098	CIVIL
CG CHRISTOPHER GIANNOTTI	28673	CIVIL
PJD PATRICK J. DAVIS	25067	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	W250	ELECTRICAL

APPLICANT
verizon

PLANS PREPARED FOR

PLANS PREPARED BY

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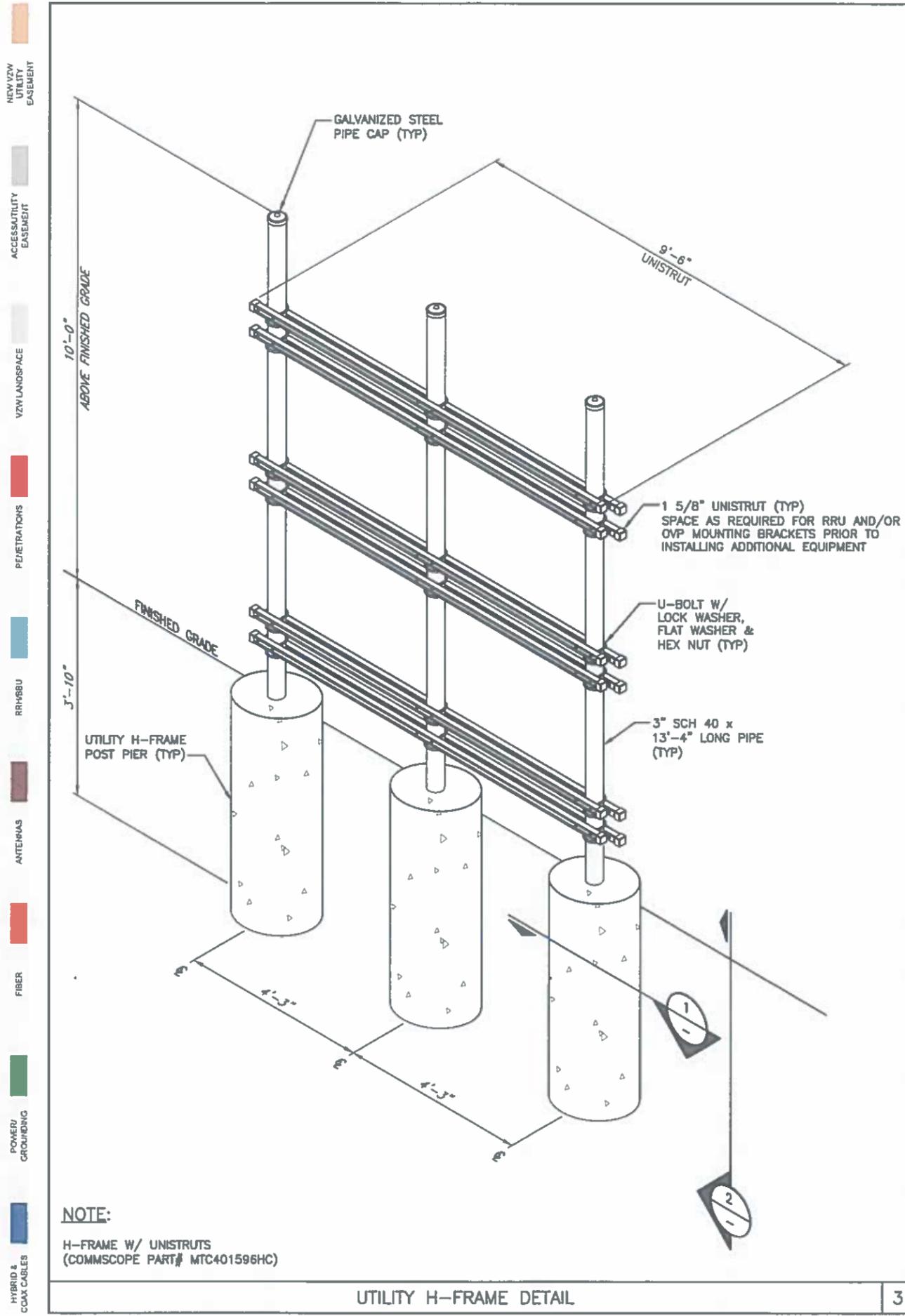
SUBMITTALS	DESCRIPTION	DATE	BY	REV
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MLA SITE NAME
 STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
 MTPL NEVADA RELHR
 TBD

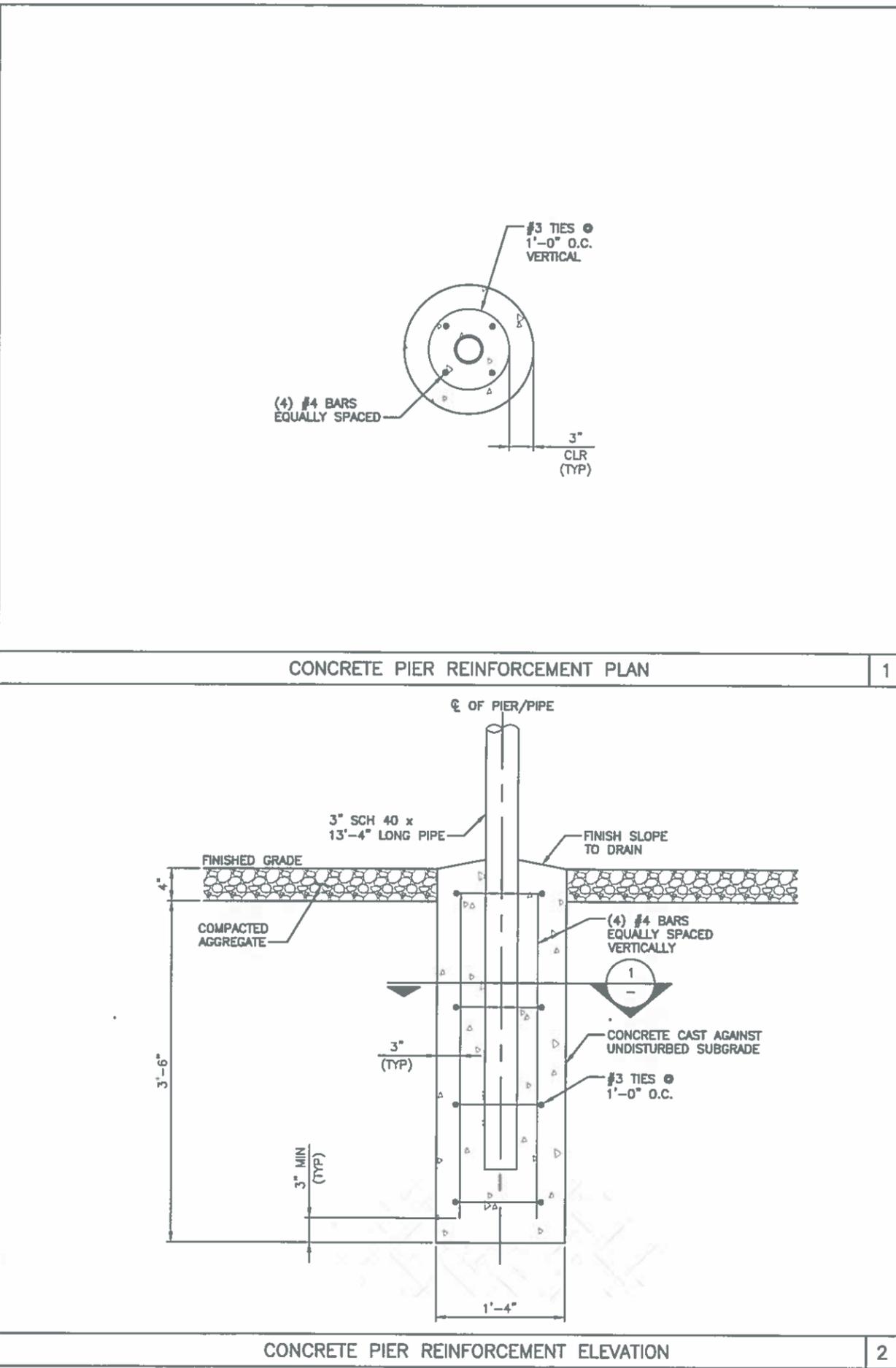
SITE ADDRESS
 3751 NEVADA ROAD
 OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
EQUIPMENT ELEVATIONS	C-2.1



UTILITY H-FRAME DETAIL

3



CONCRETE PIER REINFORCEMENT ELEVATION

2

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE

STATE OF KANSAS

PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CG CHRISTOPHER GIANNOTTI	29873	CIVIL
PJD PATRICK J. DAVIS	29857	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT

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PLANS PREPARED BY

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MLA SITE NAME

STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

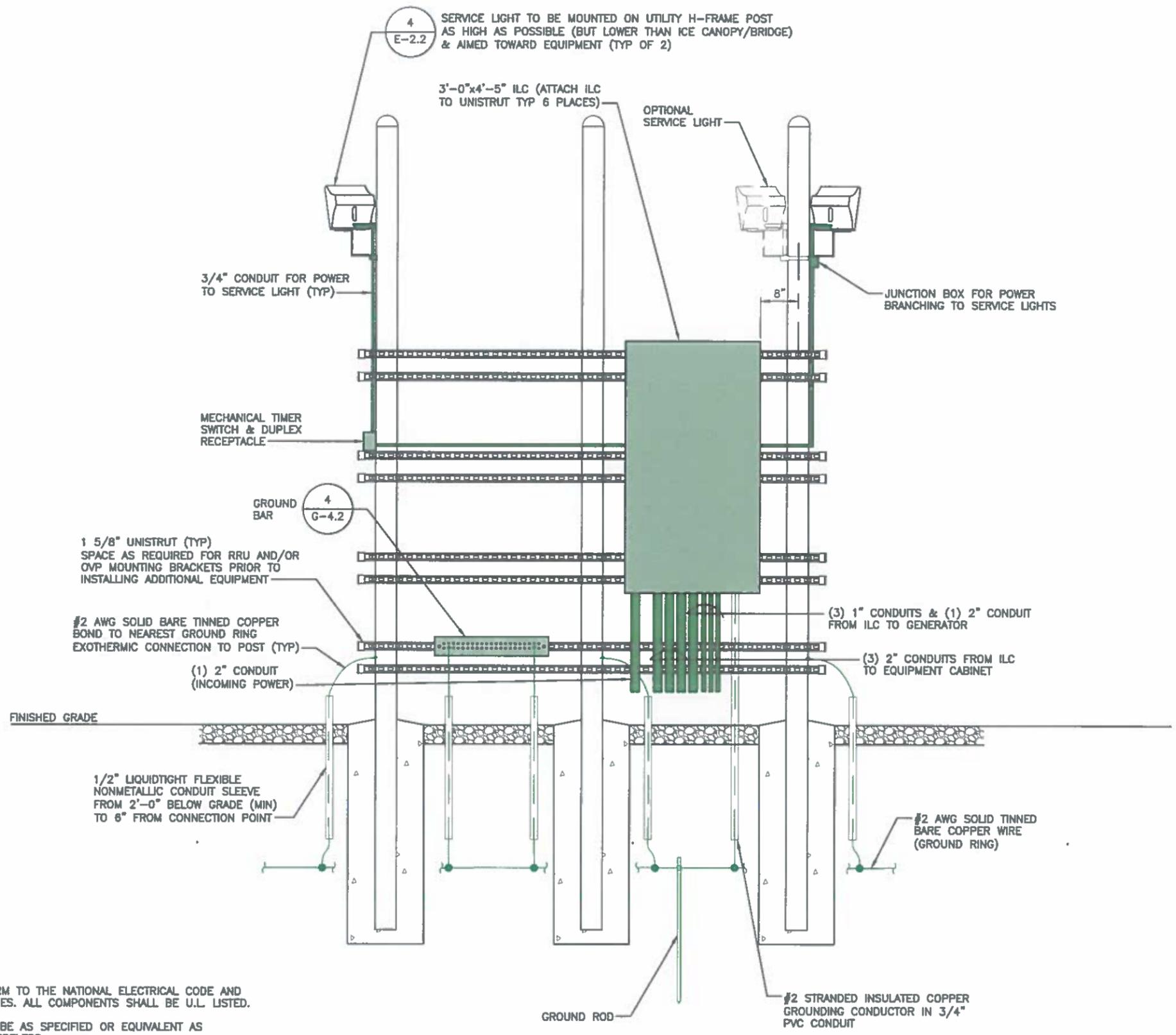
MTPL NEVADA RELHR
TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
DETAILS	C-3.0

NEW/UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZWLANDSPACE
 PENETRATIONS
 RRHBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



ELECTRICAL NOTES:

1. ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND THE LOCAL BUILDING CODES. ALL COMPONENTS SHALL BE U.L. LISTED.
2. ALL COMPONENTS SHALL BE AS SPECIFIED OR EQUIVALENT AS APPROVED BY VERIZON WIRELESS.
3. BELOW GRADE EXOTHERMIC CONNECTIONS ARE TYPE-TA.
4. CONTRACTOR SHALL INSTALL SJP JOINTS ON ALL CONDUITS (SEE SHEET E-2.2, DETAIL 3).

UTILITY H-FRAME EQUIPMENT PLACEMENT

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CG CHRISTOPHER GIANNOTTI	28673	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT

verizon

PLANS PREPARED FOR

STC

PLANS PREPARED BY

SSC

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TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION

UTILITY H-FRAME EQUIPMENT PLACEMENT

SHEET #

C-3.1

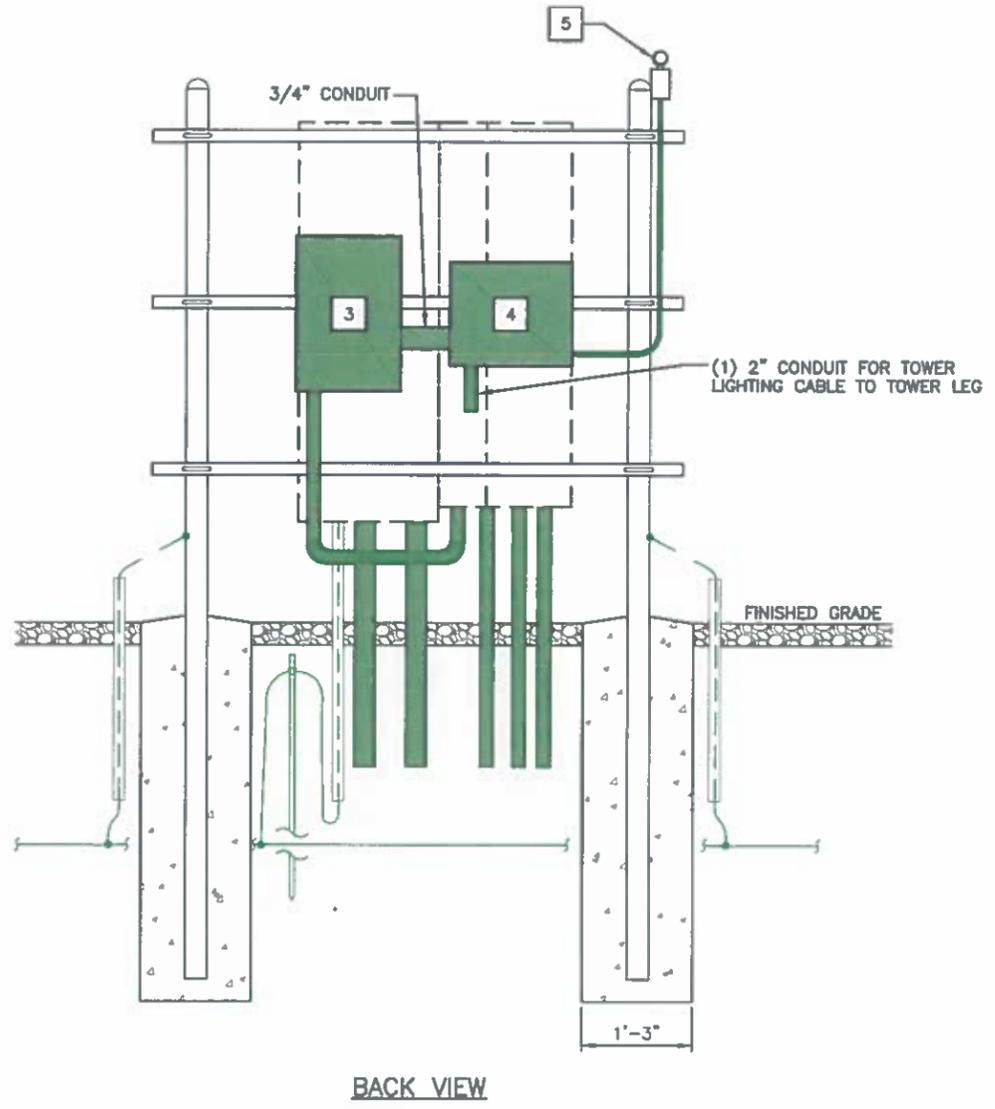
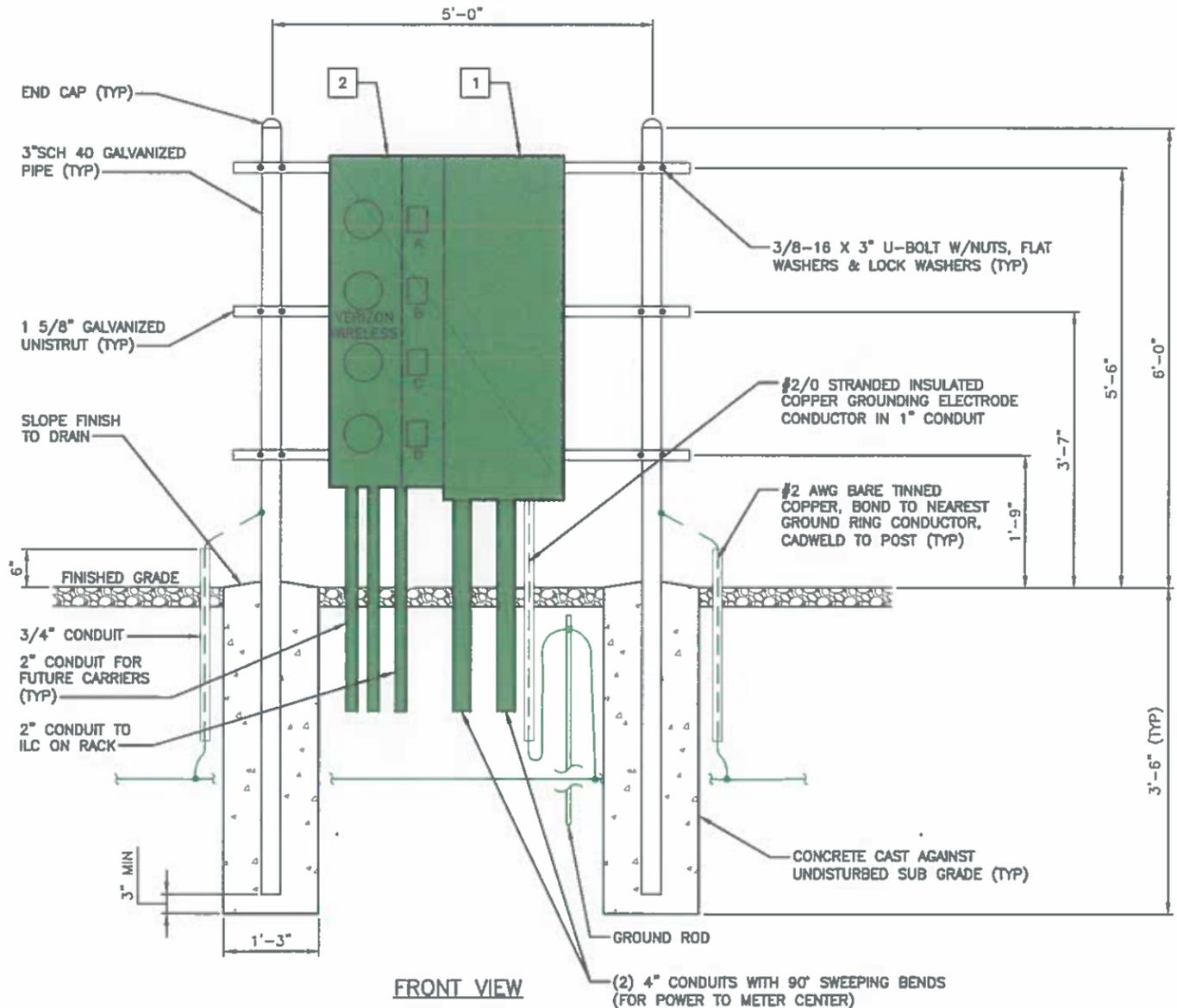
NEW/VOV UTILITY EASEMENT
ACCESSIBILITY EASEMENT
VZV LANDSPACE
PENETRATIONS
RR/HBBU
ANTENNAS
FIBER
POWER/ GROUNDING
HYBRID & COAX CABLES

GENERAL

- UNLESS OTHERWISE NOTED, ALL UNDERGROUND CONDUIT TO BE SCH 40 PVC. 90° SWEEPING BENDS SHALL BE SCH 80.
- UNLESS OTHERWISE NOTED, ALL ABOVE GRADE CONDUIT TO BE RGS. ALL CONNECTIONS TO BE RGS OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT. VERIFY WITH CONSTRUCTION MANAGER PRIOR TO BID.
- ALL WIRE CONNECTIONS & CONDUITS TO BE SUPPLIED BY CONTRACTOR UNLESS OTHERWISE NOTED OR SPECIFIED BY CONSTRUCTION MANAGER.
- REFER TO DETAIL 1 SHEET E-2.1 FOR CIRCUIT IDENTIFICATION & ENCIRCLED NUMBERS.
- ADDITIONAL ANGLE ADAPTERS (NOT SHOWN) ARE USED TO MOUNT SERVICE BOXES TO THE VERTICAL MEMBERS.

KEYNOTES

- FURNISH & INSTALL A CUTLER-HAMMER MAIN SERVICE MODULE CATALOG NUMBER: 1MTB800RC, 800A, 120/240V, 1φ, 3W.
- FURNISH & INSTALL ONE (1) CUTLER-HAMMER 4 GANG, 5 JAW METER STACK MODULE, CATALOG NUMBER: 35MM420R12, 225A, 120/240V, 1φ.
- 12-POSITION, 100A, 120/240V, 1φ, 3W LOAD CENTER W/ (1) 100A/2P MAIN CIRCUIT BREAKER.
- TOWER LIGHTING CONTROLLER (COORDINATE WITH MANUFACTURER FOR SPECS).
- PHOTOCELL (PART# MT-6503) MOUNTED 6" ABOVE POST FACING NORTH.



SLIP JOINT NOTE:
CONTRACTOR SHALL INSTALL SLIP JOINTS ON ALL CONDUITS. (SEE SHEET E-2.2, DETAIL 3)

METER CENTER RACK DETAIL

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	18096	CIVIL
CS CHRISTOPHER GIANNOTTI	29613	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
DWV DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	6250	ELECTRICAL

APPLICANT



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STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
MTPL NEVADA RELHR
TBD

SITE ADDRESS
3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
METER CENTER RACK DETAIL	C-3.2

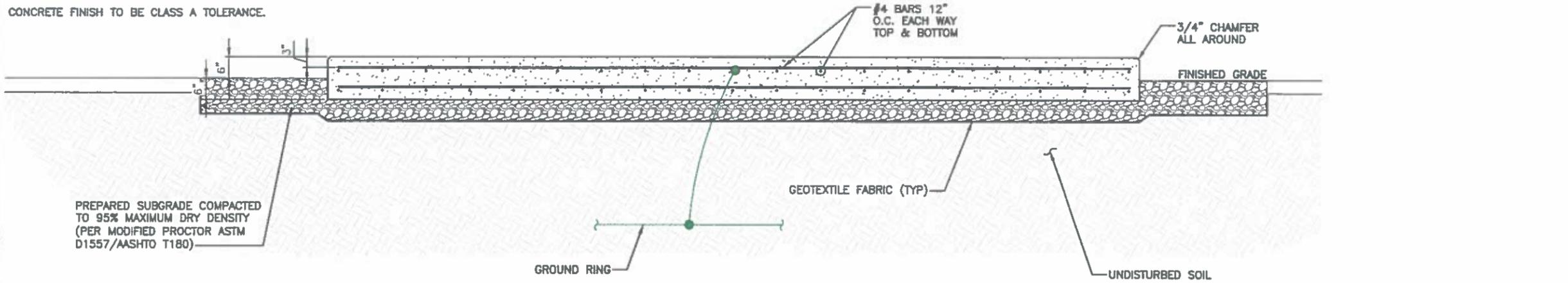
NEW/2VW UTILITY EASEMENT
ACCESSIBILITY EASEMENT
V2W LANDSPACE
PENETRATIONS
RR/MSU
ANTENNAS
FIBER
POWER/ GROUNDING
HYBRID & COAX CABLES

SLIP JOINT NOTE:

CONTRACTOR SHALL ALWAYS INSTALL CONDUIT SLIP JOINTS WHEN USING THIS FOUNDATION (SEE SHEET E-2.2, DETAIL 3).

NOTE:

CONCRETE FINISH TO BE CLASS A TOLERANCE.



CONCRETE EQUIPMENT PAD (3 CABINETS) – ELEVATION VIEW

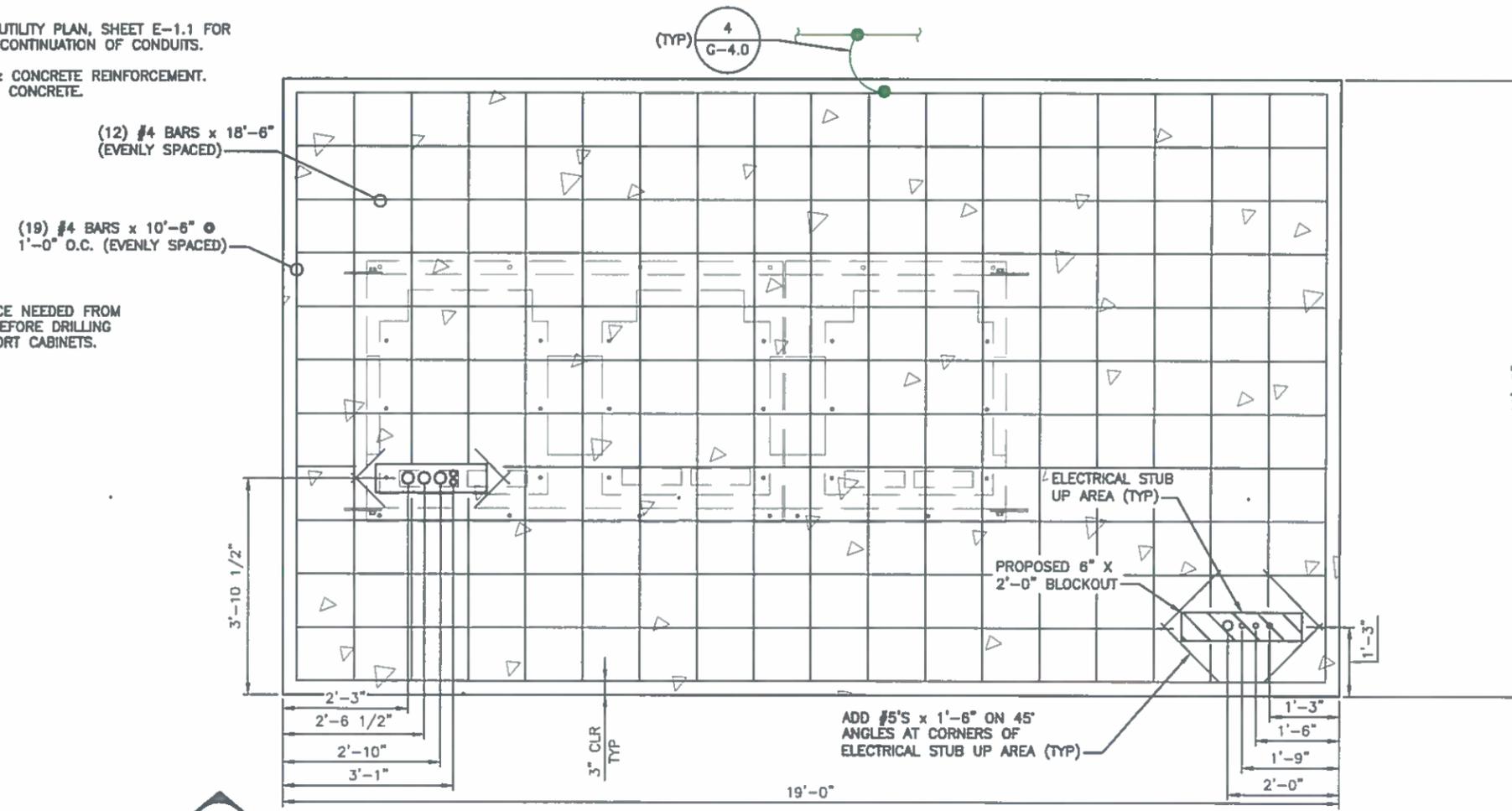
3/4" = 1'-0" (22"x34")
3/8" = 1'-0" (11"x17") 1

NOTES:

- SEE ENLARGED UTILITY PLAN, SHEET E-1.1 FOR ORIENTATION & CONTINUATION OF CONDUITS.
- PLACE FORMS & CONCRETE REINFORCEMENT. PLACE & FINISH CONCRETE.

NOTE:

4" MINIMUM DISTANCE NEEDED FROM CONCRETE EDGES BEFORE DRILLING ANCHORS TO SUPPORT CABINETS.



CONCRETE EQUIPMENT PAD (3 CABINETS) – PLAN VIEW

3/4" = 1'-0" (22"x34")
3/8" = 1'-0" (11"x17") 2

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CG CHRISTOPHER GIANNOTTI	29873	CIVIL
PJO PATRICK J. DAVIS	25067	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT



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SUBMITTALS

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	09/30/25	AWD	A
REISSUED PER CLIENT COMMENTS	11/04/25	AWD	B

MLA SITE NAME
STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
MTPL NEVADA RELHR
TBD

SITE ADDRESS
3751 NEVADA ROAD
OTTAWA, KS 66067

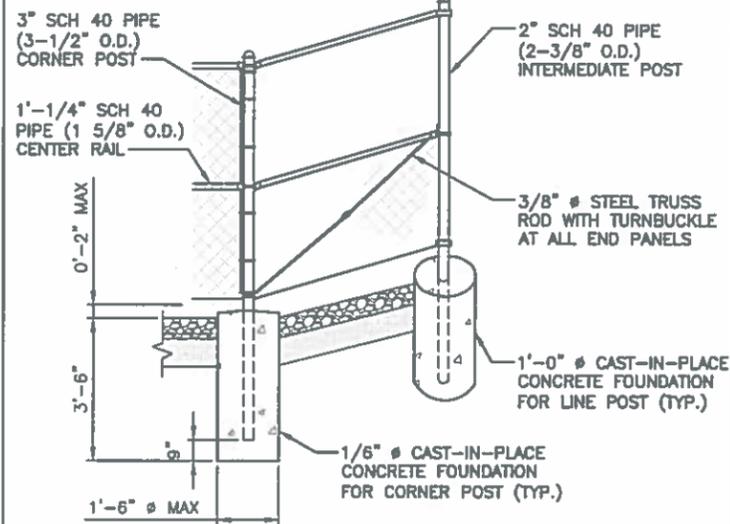
SHEET DESCRIPTION

EQUIPMENT PAD DETAILS	SHEET # C-4.0
-----------------------	------------------

NEW/UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZWLANDSPACE
 PENETRATIONS
 RR/BBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES

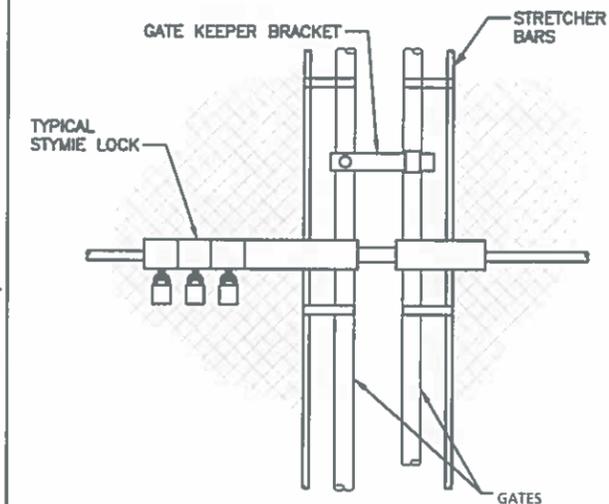
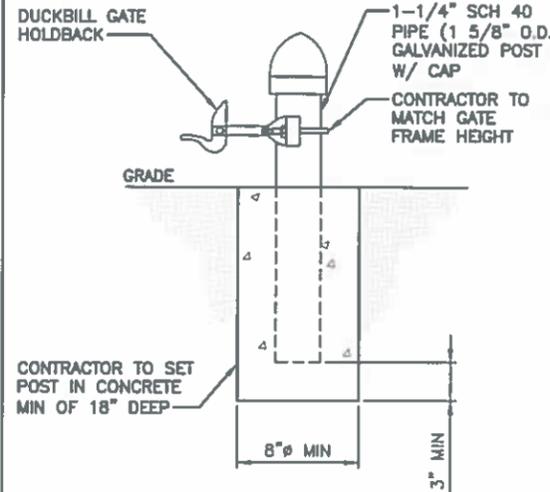
FENCING NOTES:

1. ALL STEEL MATERIAL SHALL BE HOT-DIPPED GALVANIZED AND CONFORM TO FEDERAL SPECIFICATION RR-F-191.
2. GATE HINGE BOLTS SHALL HAVE THEIR THREADS PEENED OR WELDED TO PREVENT UNAUTHORIZED REMOVAL.
3. THE FENCE SHALL BE GROUNDED AS SHOWN IN ELECTRICAL DETAILS.
4. ALL FENCING AND RELATED ASSEMBLIES SHALL BE GALVANIZED ZINC FINISH (FABRIC-ASTM A392-84 FRAME WORK-ASTM F669-81).
5. ALL CONCRETE FOOTINGS SHALL BE 6. 1 BAG MIX 3000 PSI CONCRETE.
6. ALL GATE FABRIC, POSTS, AND HARDWARE SHALL HAVE A GALVANIZED FINISH CONFORMING TO ASTM A153 (OR 120/123).



NOTE:

INSTALL MAXIMUM OF 2'-0" FROM FACE OF COMPOUND FENCE



STANDARD COMBINATION LOCK SPEC:

ALL LOCKS SHOULD HAVE A MARINE GRADE BRASS BODY WITH A STAINLESS STEEL SHACKLE.

SOLID BRASS BODY PROVIDES STRENGTH AND CORROSION RESISTANCE.

STAINLESS STEEL SHACKLES RESIST HACKSAWS, BOLT CUTTER, AND CORROSIVE WEATHER CONDITIONS.

ALL LOCKS SHOULD BE A PROGRAMMABLE COMBINATION LOCK THAT IS STRONG, DURABLE AND HIGHLY WEATHER RESISTANT.

FENCE NOTES

6

CORNER POST DETAIL

4

GATE KEEPER DETAIL

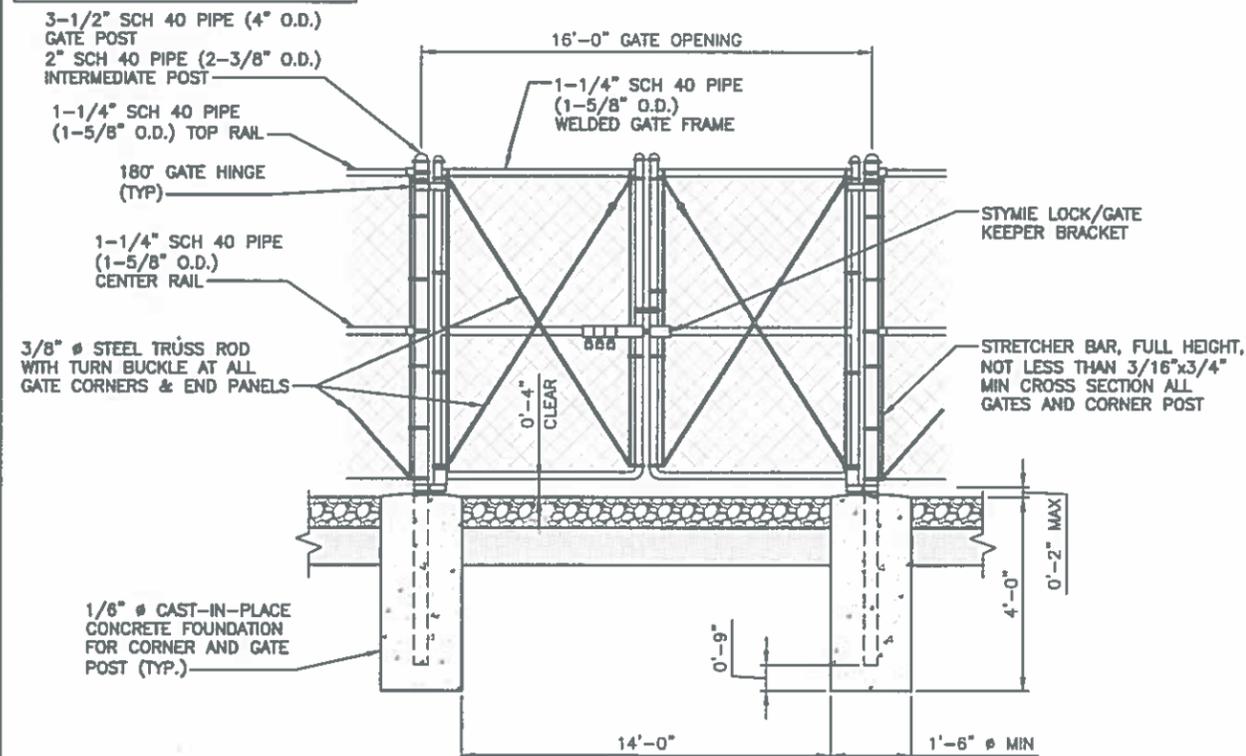
3

STYMIE LOCK DETAIL

1

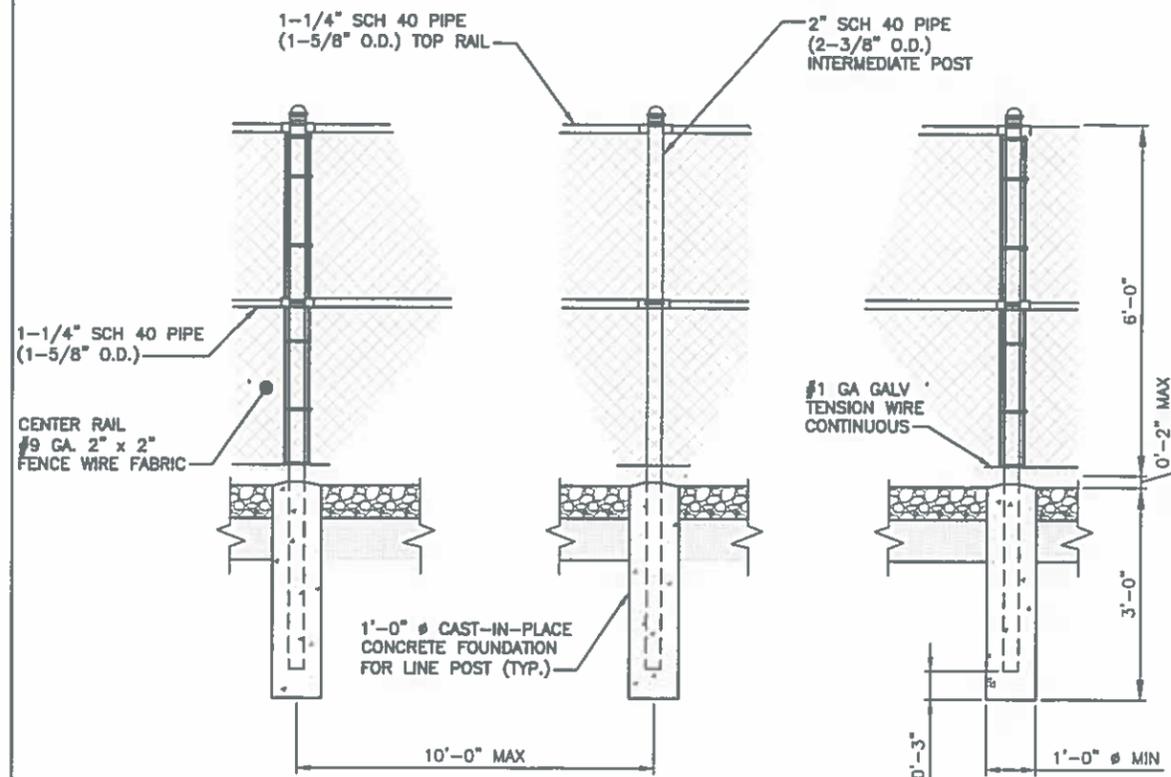
NOTE:

GATE HINGE BOLTS SHALL HAVE THEIR THREAD PEENED OR WELDED TO PREVENT UNAUTHORIZED REMOVAL



16'-0" DOUBLE SWING GATE DETAIL

5



FENCE POST DETAILS

2

STAMP

PRELIMINARY ISSUE

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STATE OF KANSAS

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APPLICANT

PLANS PREPARED FOR

PLANS PREPARED BY

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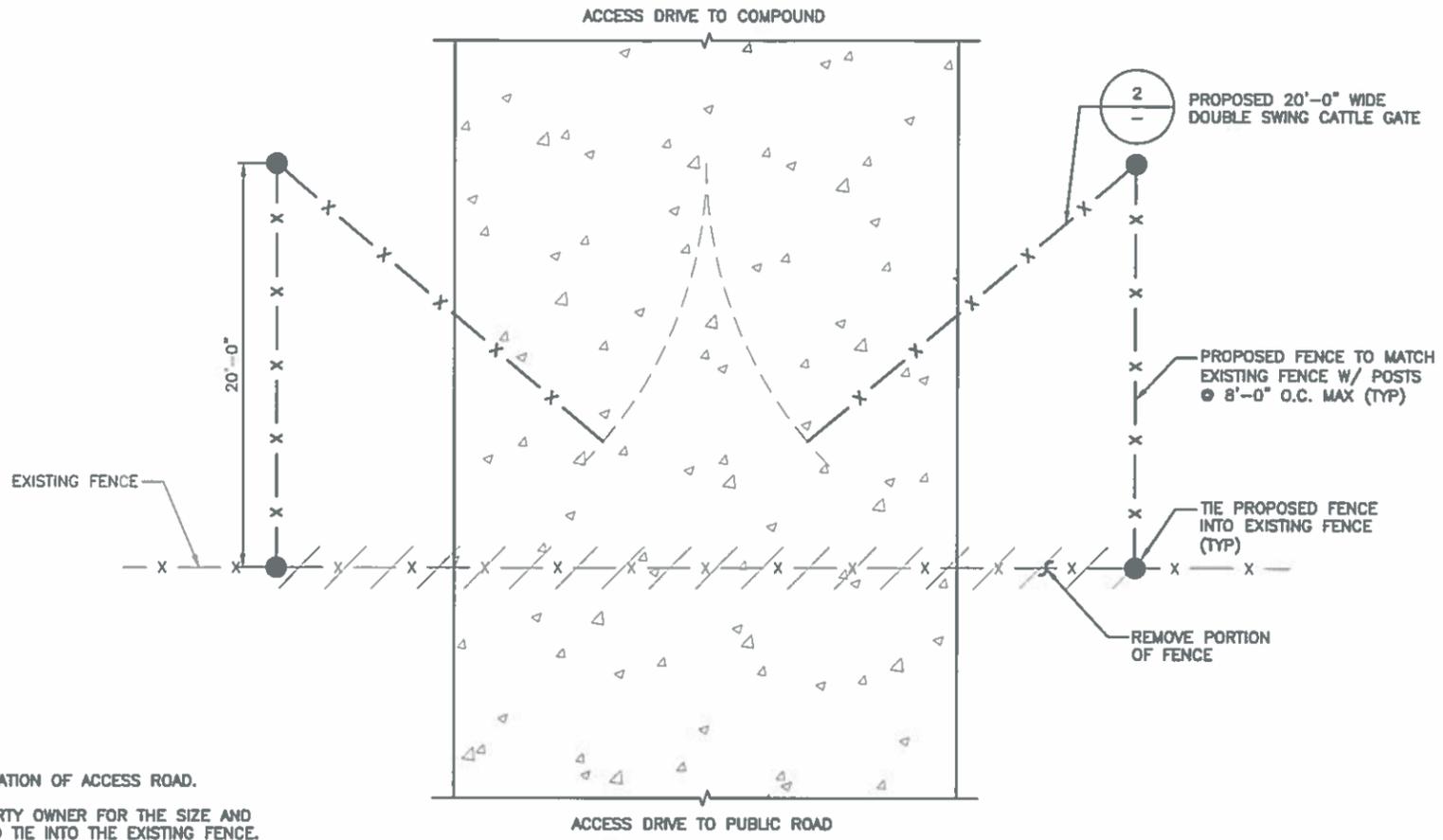
MTPL NEVADA RELHR
TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

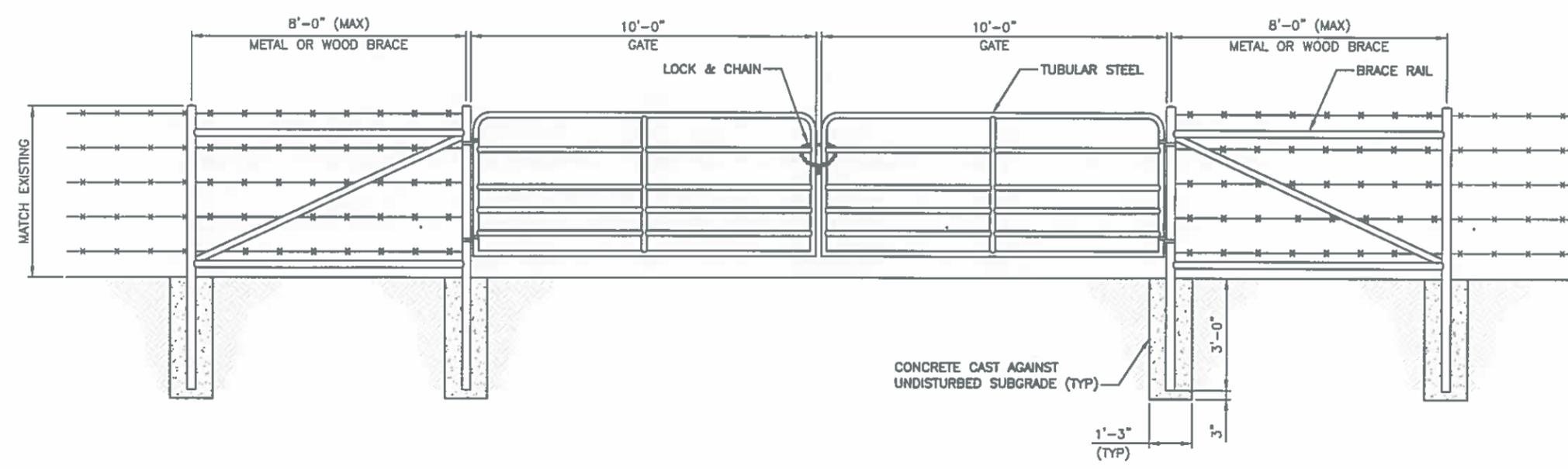
SHEET DESCRIPTION	SHEET #
COMPOUND FENCE DETAILS	C-5.0

NEW VZW UTILITY EASEMENT
 ACCESS UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RRRHBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



- NOTES:**
- SEE SHEET C-1.0 FOR CONTINUATION AND ORIENTATION OF ACCESS ROAD.
 - CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER FOR THE SIZE AND TYPE OF GATE POSTS & BRACING TO BE USED TO TIE INTO THE EXISTING FENCE.

ACCESS GATE PLAN



- NOTE:**
- CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER FOR THE SIZE AND TYPE OF GATE POSTS & BRACING TO BE USED TO TIE INTO THE EXISTING FENCE.

ACCESS GATE DETAIL

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APPLICANT

verizon

PLANS PREPARED FOR

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PLANS PREPARED BY

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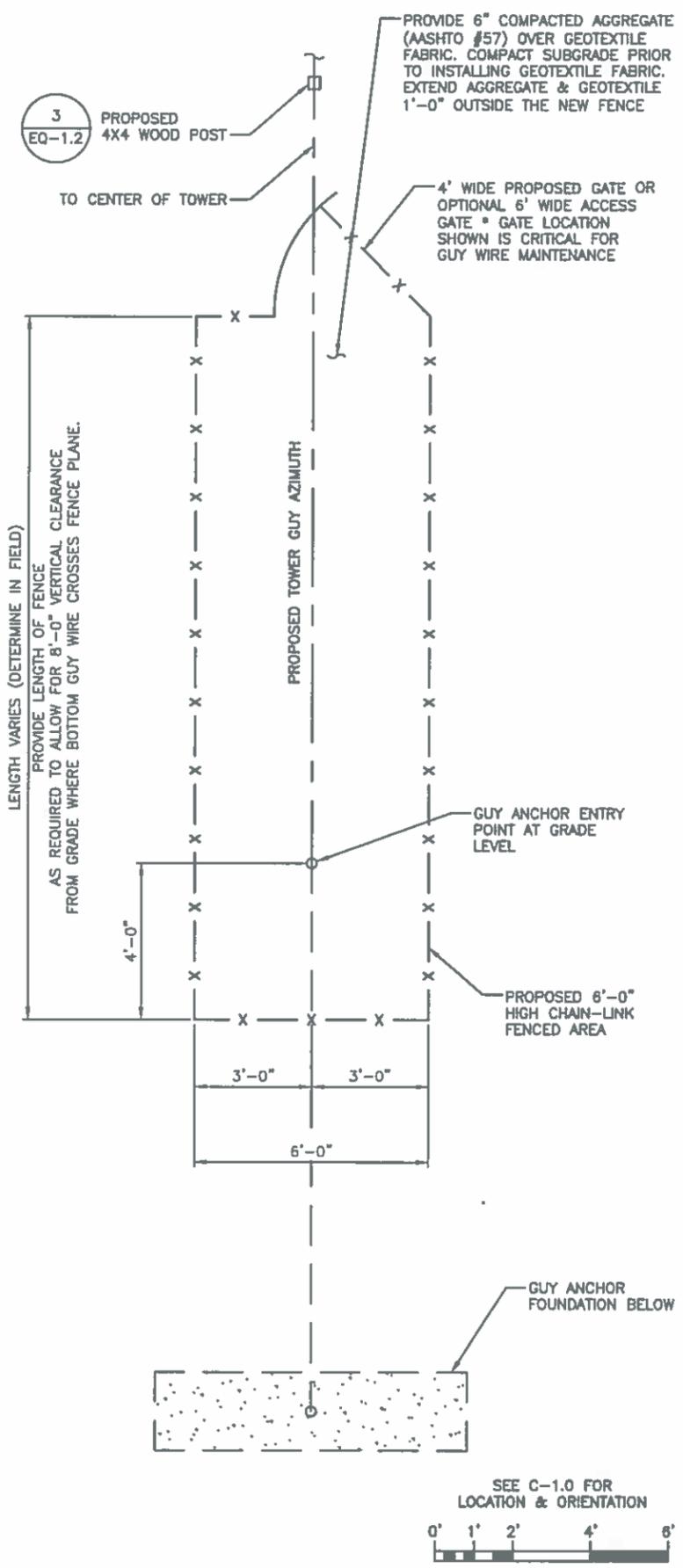
3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
ACCESS GATE DETAILS	C-5.1

1

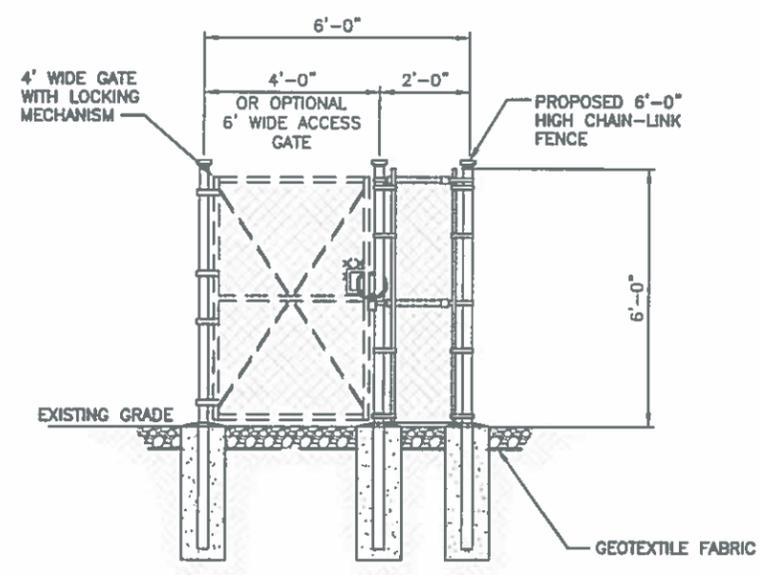
2

NEW/2W UTILITY EASEMENT
ACCESSIBILITY EASEMENT
V2W LANDSPACE
PENETRATIONS
RR/48BU
ANTENNAS
FIBER
POWER/ GROUNDING
HYBRID & COAX CABLES



GUY WIRE FENCE PLAN

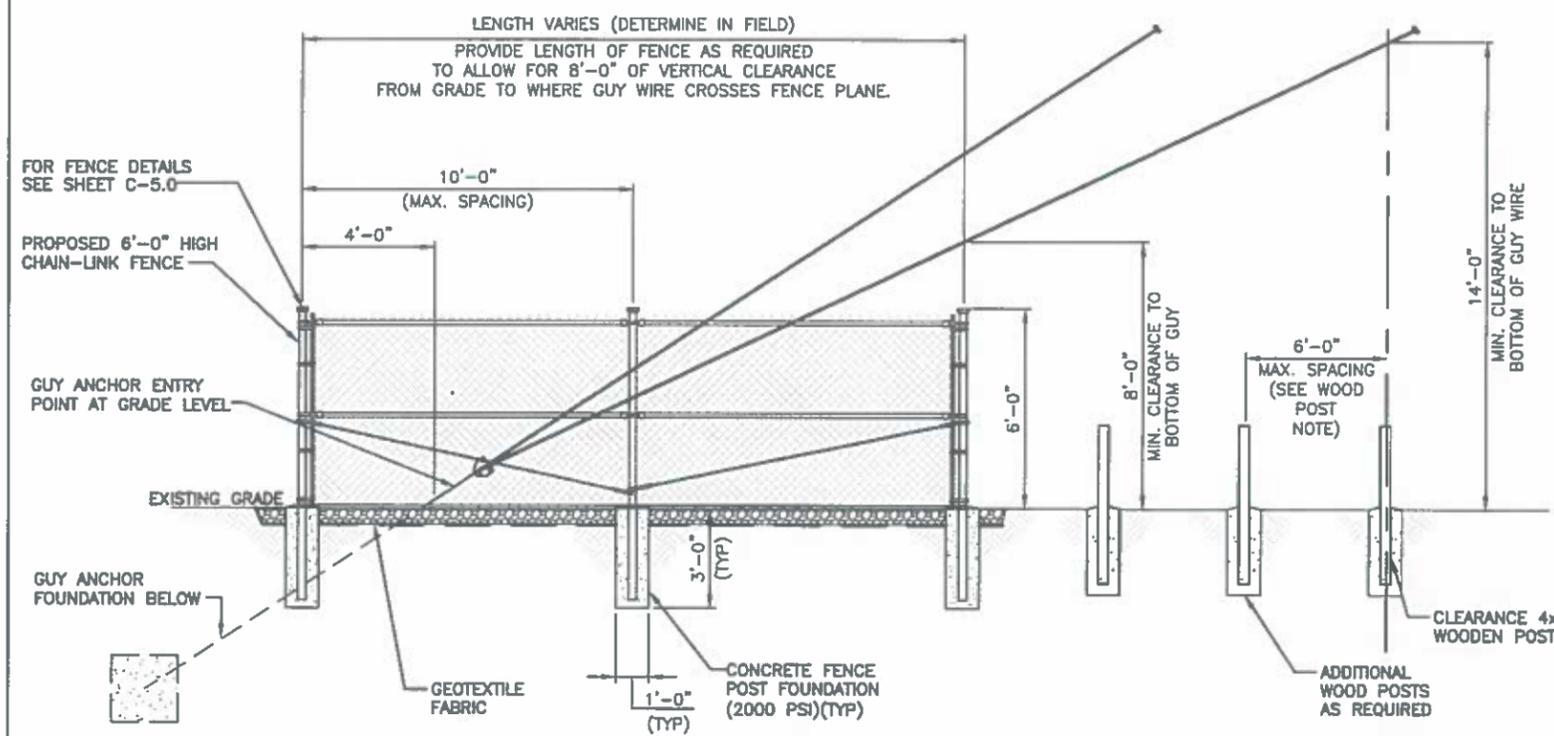
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*NO GATE ON OPPOSITE END

GUY WIRE FENCE END PROFILE

2



GUY WIRE FENCE SIDE PROFILE

4

WOOD POST INSTALLATION

1. INSTALL FIRST WOOD POST DIRECTLY UNDER GUY AZIMUTH WHERE BOTTOM GUY WIRE REACHES A 14' MIN. CLEARANCE.
2. INSTALL ADDITIONAL WOOD POSTS BETWEEN THE 14'-0" CLEARANCE WOOD POST & THE 8'-0" FENCING CLEARANCE POINT AS REQUIRED. EQUALLY SPACE (MAX. 6'-0").

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SDK SHELTON D. KEISLING	13654	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT



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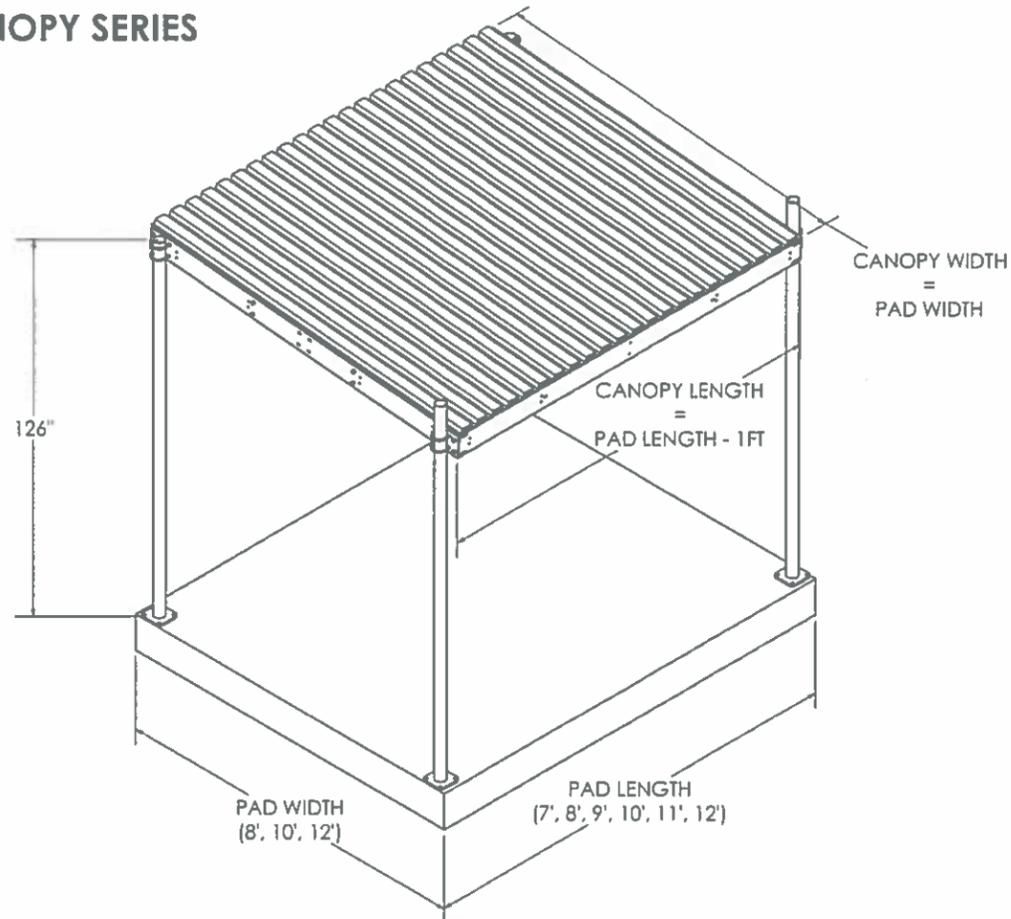
SITE ADDRESS
**3751 NEVADA ROAD
OTTAWA, KS 66067**

SHEET DESCRIPTION	SHEET #
GUY WIRE FENCE DETAILS	C-5.2

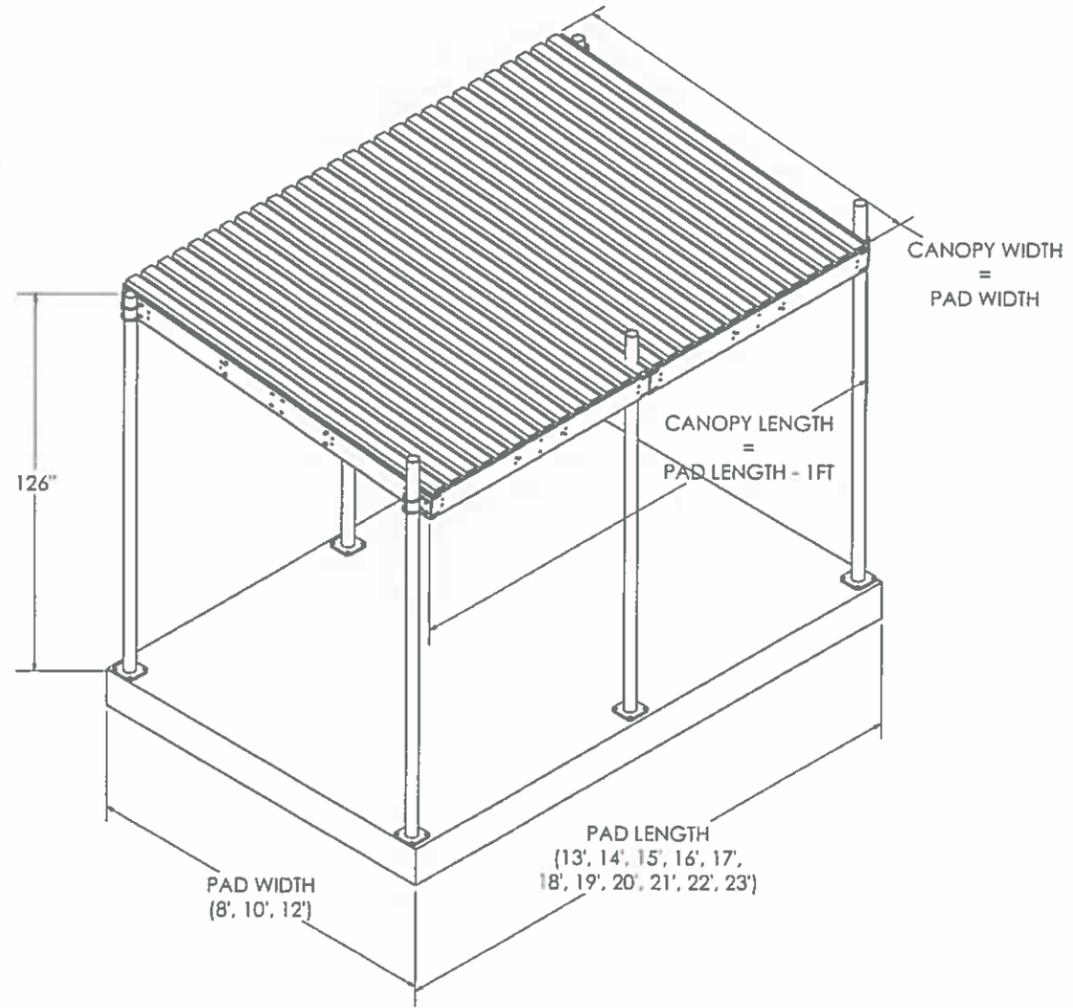
NEW/2VZV UTILITY EASEMENT
ACCESS/UTILITY EASEMENT
VZV LANDSPACE
PENETRATIONS
RR/HBBU
ANTENNAS
FIBER
POWER/ GROUNDING
HYBRID & COAX CABLES

WEATHER CANOPY SERIES

SERIES OVERVIEW



4 POST WEATHER CANOPY



6 POST WEATHER CANOPY

Weather Canopy Size Options

Pad Length	Pad Width (Roof Slope Direction)		
	8'	10'	12'
7'	PV-WC0807-B 809 lbs	PV-WC1007-B 935 lbs	PV-WC1207-B 1061 lbs
8'	PV-WC0808-B 857 lbs	PV-WC1008-B 997 lbs	PV-WC1208-B 1137 lbs
9'	PV-WC0809-B 904 lbs	PV-WC1009-B 1057 lbs	PV-WC1209-B 1211 lbs
10'	PV-WC0810-B 950 lbs	PV-WC1010-B 1117 lbs	PV-WC1210-B 1284 lbs
11'	PV-WC0811-B 998 lbs	PV-WC1011-B 1179 lbs	PV-WC1211-B 1361 lbs
12'	PV-WC0812-B 1045 lbs	PV-WC1012-B 1240 lbs	PV-WC1212-B 1436 lbs
13'	PV-WC0813-B 1355 lbs	PV-WC1013-B 1584 lbs	PV-WC1213-B 1815 lbs
14'	PV-WC0814-B 1404 lbs	PV-WC1014-B 1648 lbs	PV-WC1214-B 1893 lbs
15'	PV-WC0815-B 1450 lbs	PV-WC1015-B 1708 lbs	PV-WC1215-B 1966 lbs
16'	PV-WC0816-B 1496 lbs	PV-WC1016-B 1766 lbs	PV-WC1216-B 2038 lbs
17'	PV-WC0817-B 1545 lbs	PV-WC1017-B 1830 lbs	PV-WC1217-B 2116 lbs
18'	PV-WC0818-B 1591 lbs	PV-WC1018-B 1890 lbs	PV-WC1218-B 2190 lbs
19'	PV-WC0819-B 1636 lbs	PV-WC1019-B 1949 lbs	PV-WC1219-B 2262 lbs
20'	PV-WC0820-B 1685 lbs	PV-WC1020-B 2012 lbs	PV-WC1220-B 2340 lbs
21'	PV-WC0821-B 1732 lbs	PV-WC1021-B 2072 lbs	PV-WC1221-B 2414 lbs
22'	PV-WC0822-B 1777 lbs	PV-WC1022-B 2131 lbs	PV-WC1222-B 2492 lbs
23'	PV-WC0823-B 1829 lbs	PV-WC1023-B 2198 lbs	PV-WC1223-B 2568 lbs

SHEET: 1 OF 11	3/30/2018	SCALE: 1:40	CATEGORY: 07_Equipment Platforms & Canopies	5	UPDATED MEMBER LAYOUT, ADDED PLATFORM SIZES, ADDED JACK LEG	2/15/18
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ± 1/4", BEND ± 2" ALL OTHERS: ± 1/16"			SERIES: 01_Equipment Platforms & Canopies	4	EQ USABLE AREA TABLE	2/2/17
			TYPE: PV-WC / PV-EQ Series	3	ADDED PV-EQ-STEP	1/25/17
STATUS: APPROVED			BY: DJN	2	UPDATED PV-WC-BRACE	9/19/16
			CHECKED: SJS	1	ADDED POST KITS	4/7/16
REVISIONS			REV	DESCRIPTION	DATE	REV
			5	WCEQ-ENG-01-R5		5

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APPLICANT
verizon

PLANS PREPARED FOR:
STC

PLANS PREPARED BY:
SSC

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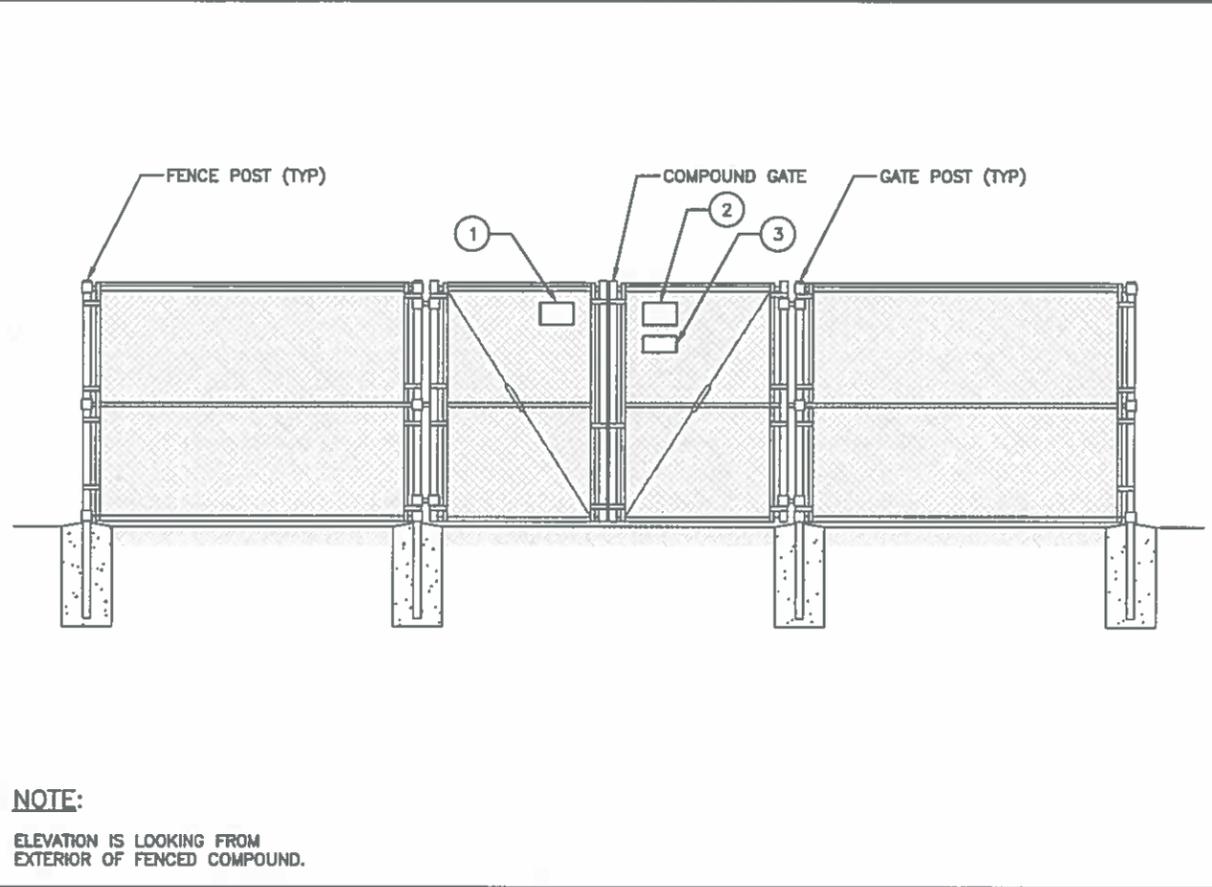
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MTPL NEVADA RELHR
TBD

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OTTAWA, KS 66067

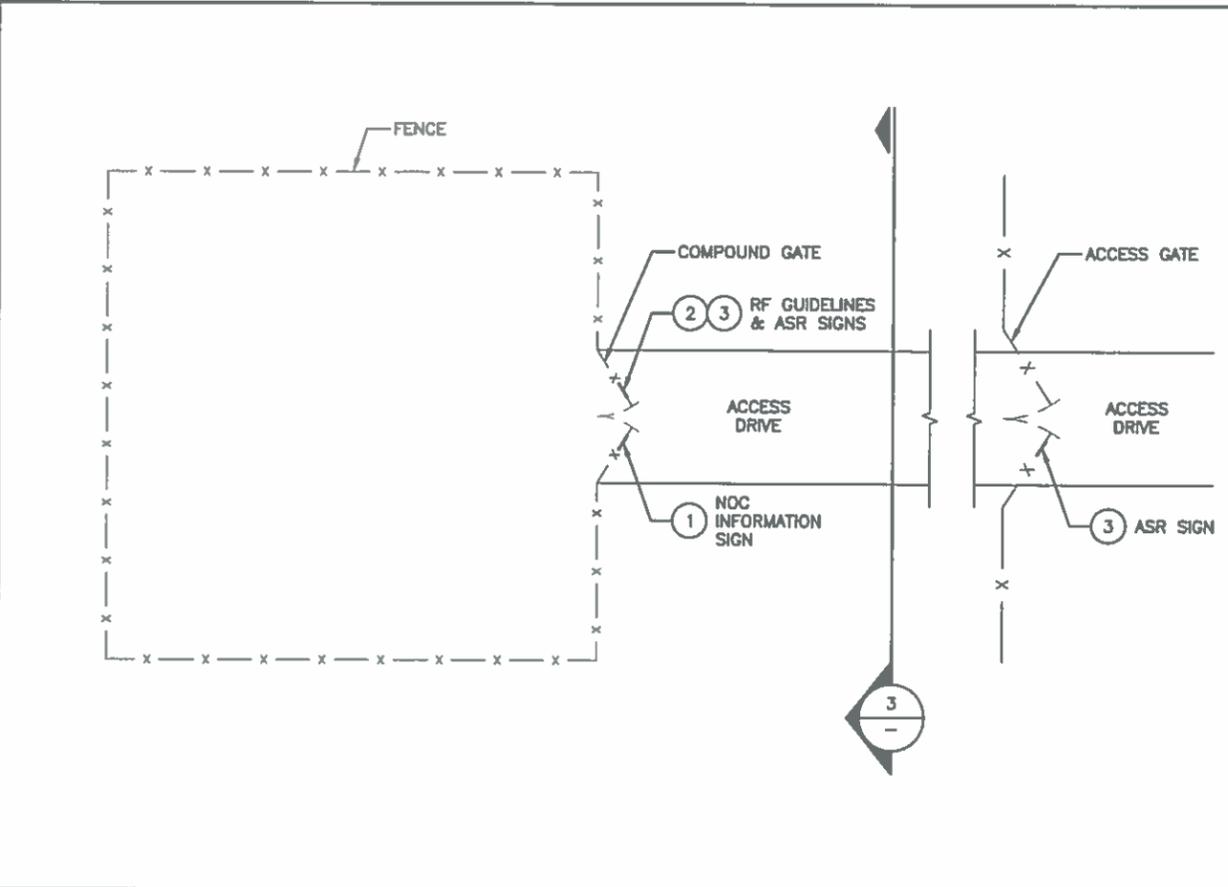
SHEET DESCRIPTION
CANOPY DETAILS

SHEET #
C-5.3

NEW/20W UTILITY EASEMENT
 ACCESSIBILITY EASEMENT
 V2W LANDSPACE
 PENETRATIONS
 RR/BBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



FENCE SIGNAGE PLACEMENT 3



FENCE SIGNAGE PLAN 1

GREEN BACKGROUND W/ WHITE LETTERING

INFORMATION

This is an ACCESS POINT to an area with transmitting antennas.

Obey all postings and boundaries beyond this point.

Call Verizon at 1-800-264-5620 for more information.

STATE: _____ SWITCH: _____

SITE ID: _____

NOC INFORMATION SIGN
 1'-0" WIDE x 8" HIGH ①

YELLOW BACKGROUND W/ BLACK LETTERING

NOTICE

General Radio Frequency (RF) Safety Guidelines

Until ALL applicable antennas have been deactivated, please observe the following:

- ⚠ Obey all posted signs.
- ⚠ Assume all antennas are transmitting.
- ⚠ Do not touch any antenna.
- ⚠ Do not stand in front of any antenna.
- ⚠ Do not walk in front of any antenna.
- ⚠ Do not walk beyond any signs, barriers, or visual markers towards any antenna.
- ⚠ Contact antenna owner or property owner if there are any questions or concerns.

RF GUIDELINES SIGN
 1'-0" WIDE x 8" HIGH ②

FCC REG. NO
 XXXXXXXX

WHITE BACKGROUND W/ BLACK LETTERING

FCC TOWER REGISTRATION NUMBER

ASR SIGN
 1'-0" WIDE x 6" HIGH ③

FENCE SIGNAGE 2

STAMP

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PLANS PREPARED BY

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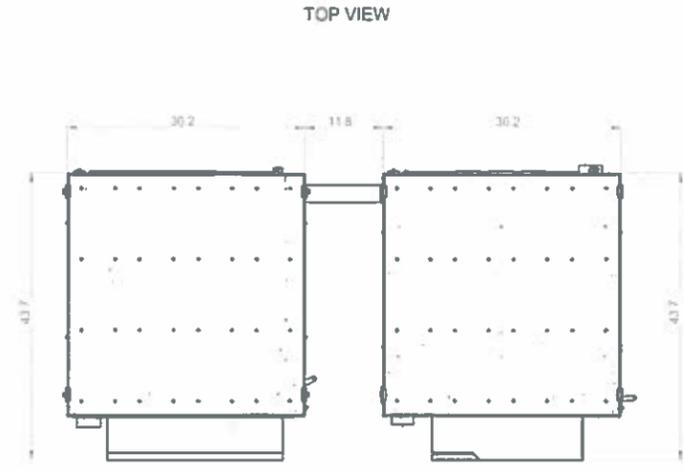
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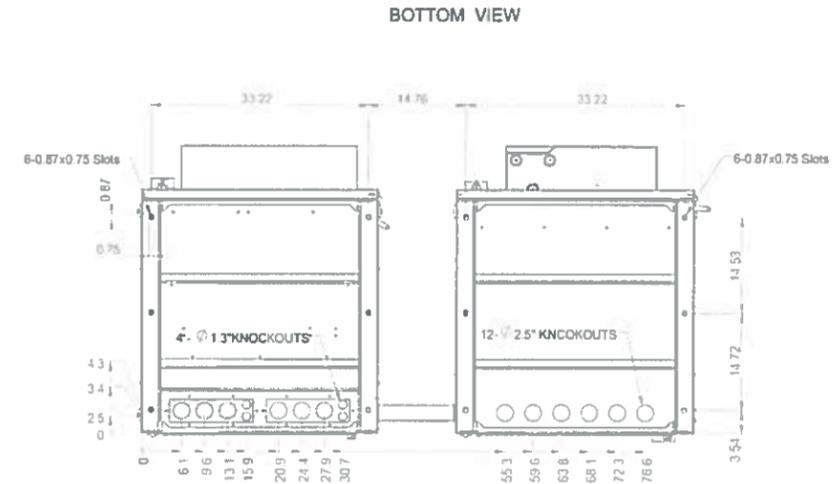
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 OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
SIGNAGE DETAILS	C-6.0

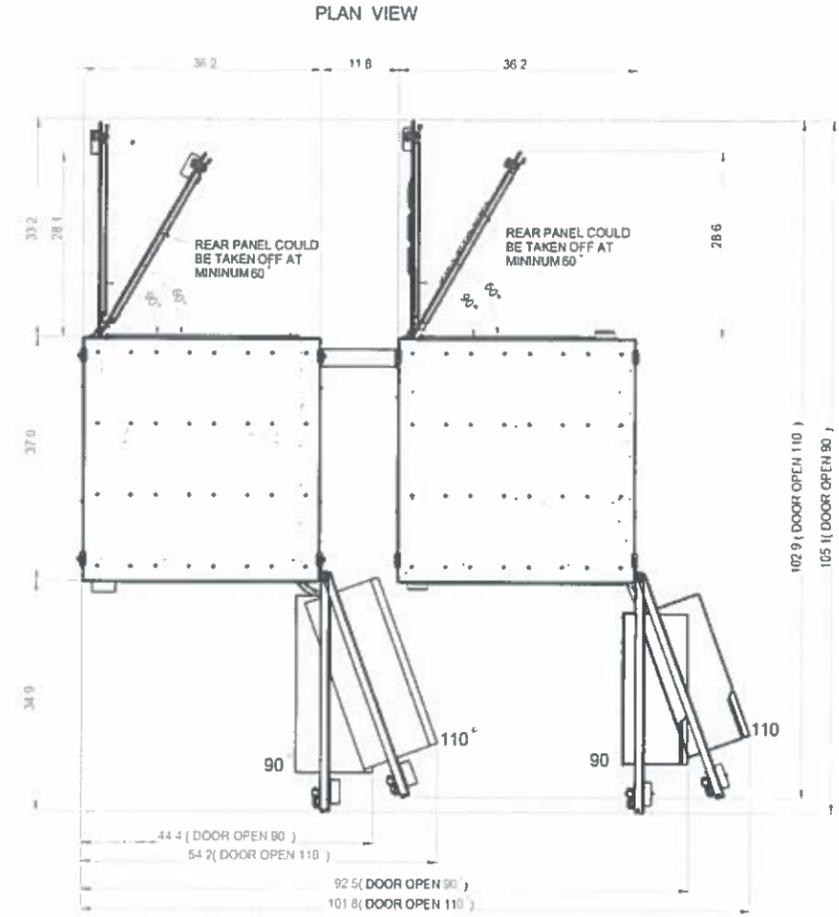
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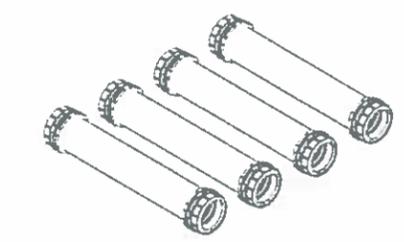
Main equipment cabinet (CMC74-36E) Battery cabinet (CMC74-36B)



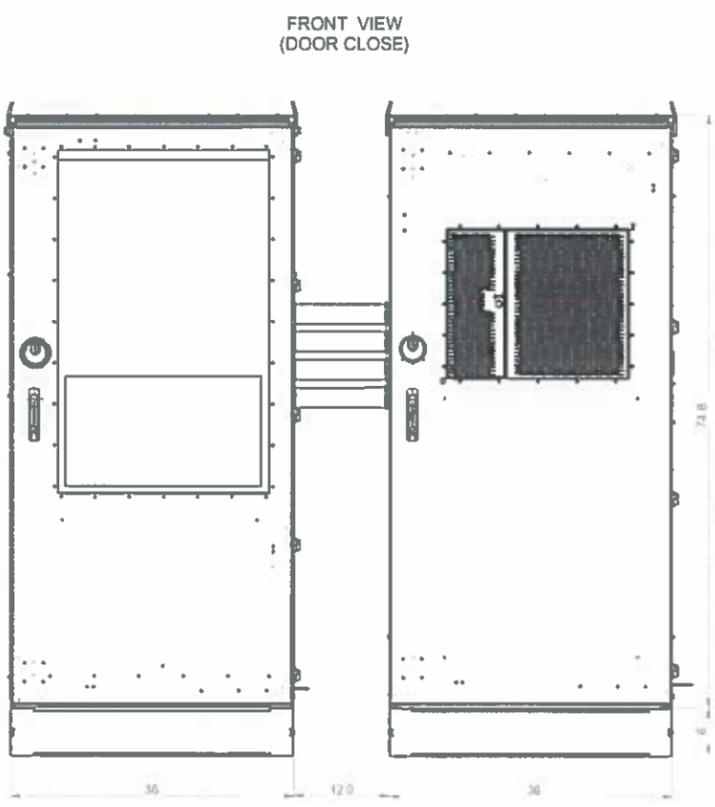
Main equipment cabinet (CMC74-36E) Battery cabinet (CMC74-36B)



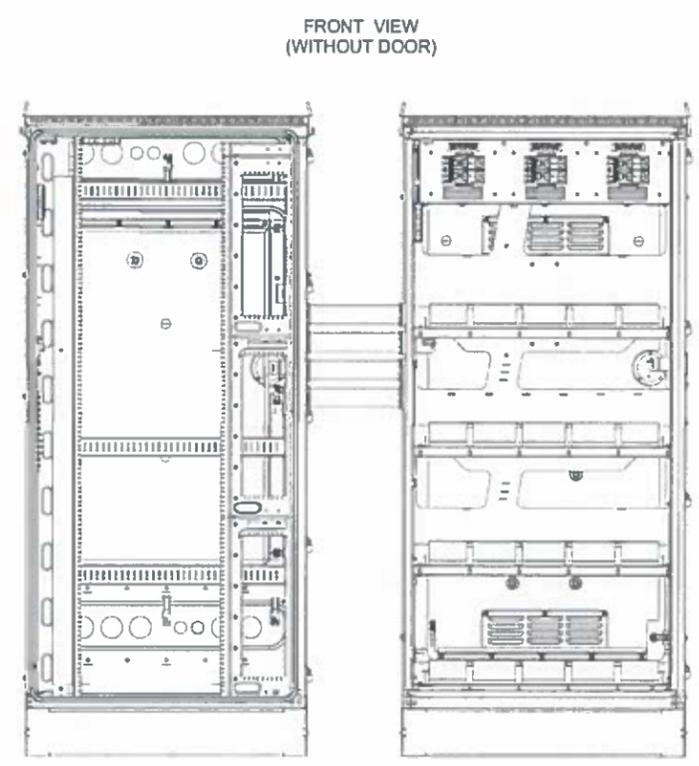
Main equipment cabinet (CMC74-36E) Battery cabinet (CMC74-36B)



TWO CMC74-36 CONNECTION CONDUIT KIT



Main equipment cabinet (CMC74-36E) Battery cabinet (CMC74-36B)



Main equipment cabinet (CMC74-36E) Battery cabinet (CMC74-36B)

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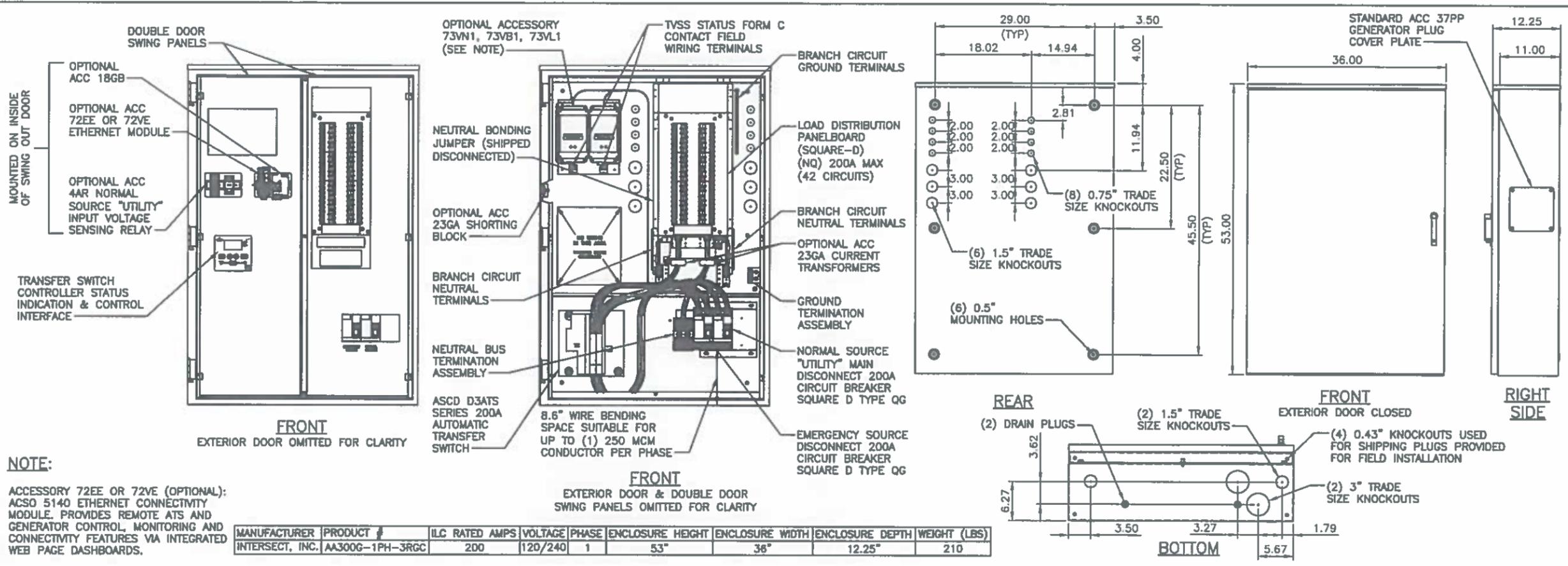
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 3751 NEVADA ROAD
 OTTAWA, KS 66067

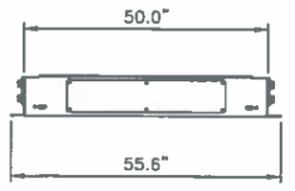
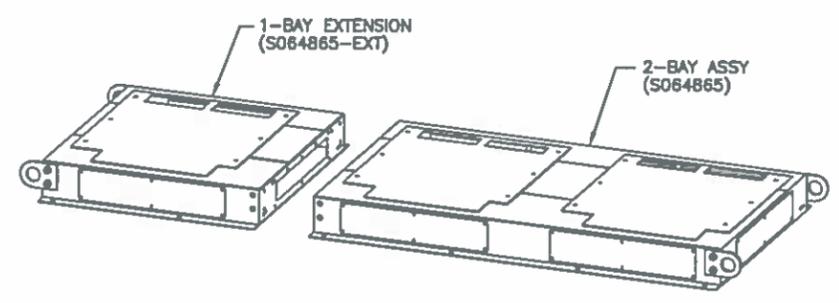
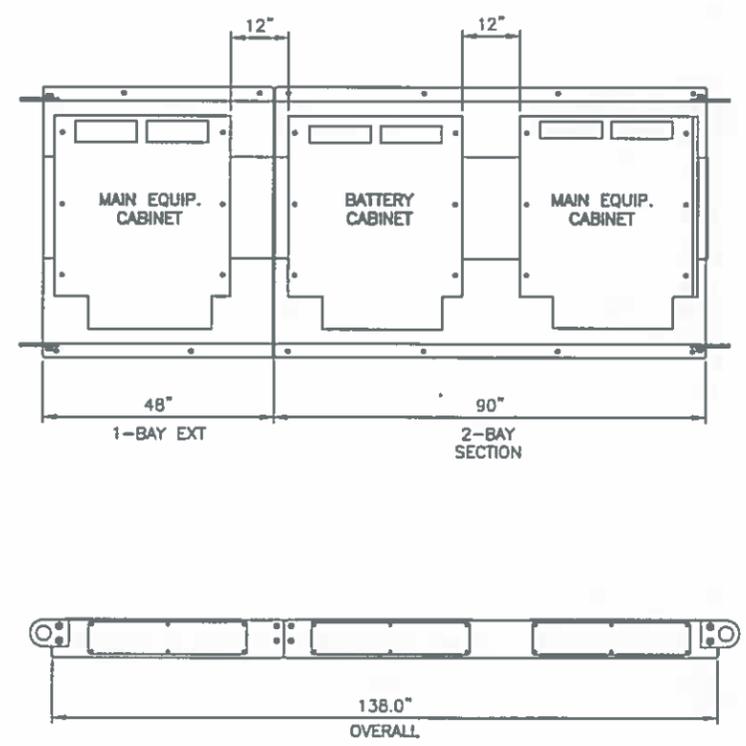
SHEET DESCRIPTION SHEET #
 EQUIPMENT CABINET DETAILS EQ-1.0

NEW VZW UTILITY EASEMENT
ACCESSIBILITY EASEMENT
VZW LANDSPACE
PENETRATIONS
RRHBBU
ANTENNAS
FIBER
POWER & GROUNDING
HYBRID & COAX CABLES



ILC DETAILS

1



NAME: PLINTH 3-BAY COMMSCOPE
DWG: S064865
AGT: 02/23/2021

PLINTH 3 BAY-COMMSCOPE

2

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMY KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CC CHRISTOPHER GUANNOTTI	25673	CIVIL
PJD PATRICK J. DAVIS	25687	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
D/W DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT

verizon

PLANS PREPARED FOR

STC

PLANS PREPARED BY

SSC

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SUBMITTALS	DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW		09/30/25	AWD	A
REISSUED PER CLIENT COMMENTS		11/04/25	AWD	B

MLA SITE NAME

STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR
TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

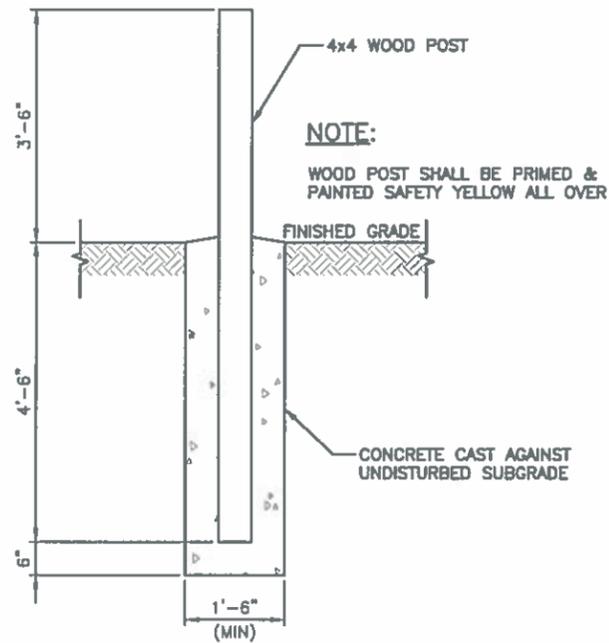
SHEET DESCRIPTION

DETAILS (1 OF 2)

SHEET #

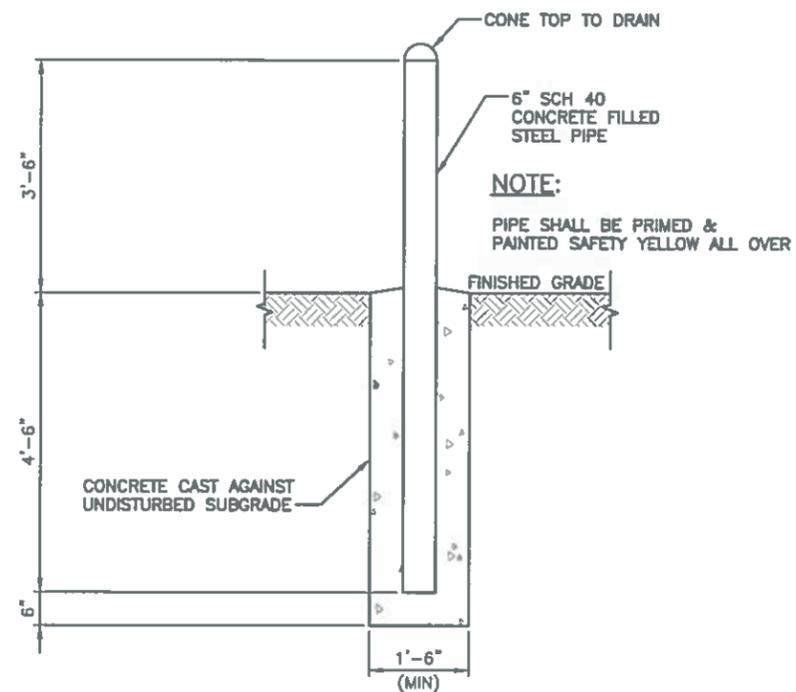
EQ-1.1

NEW/UTILITY EASEMENT
 ACCESSIBILITY EASEMENT
 VZM/LANDSPACE
 PENETRATIONS
 RR/HBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



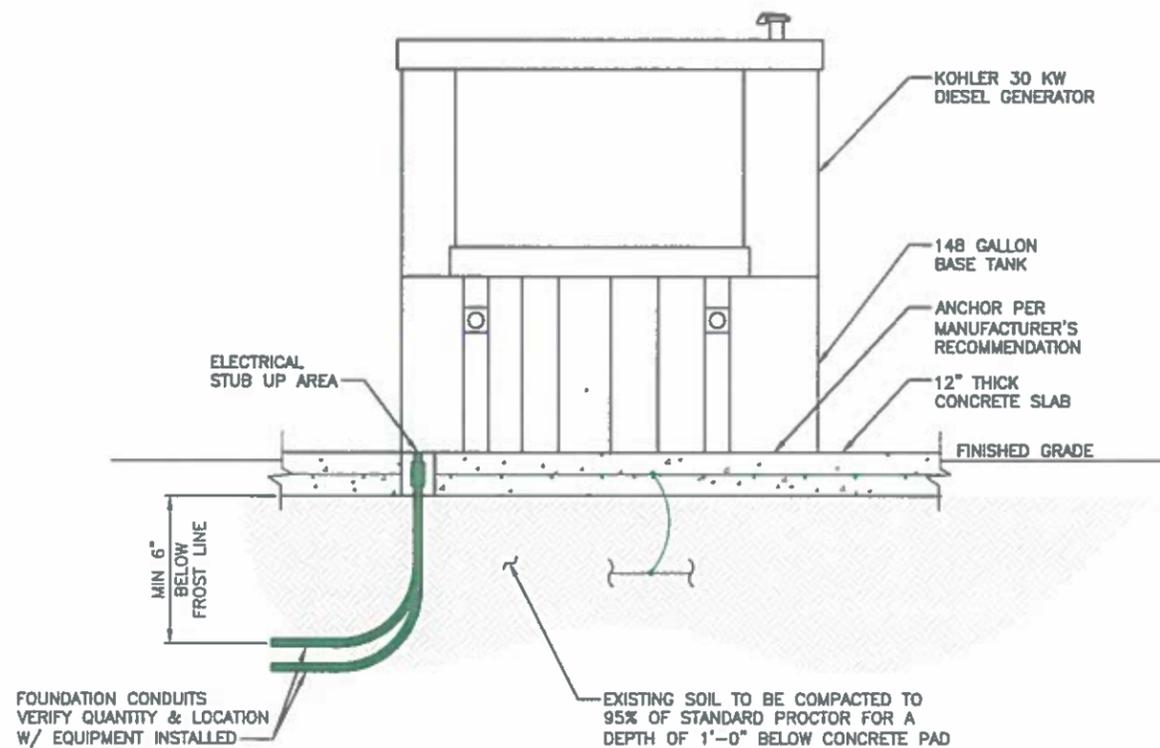
WOOD POST DETAIL

3



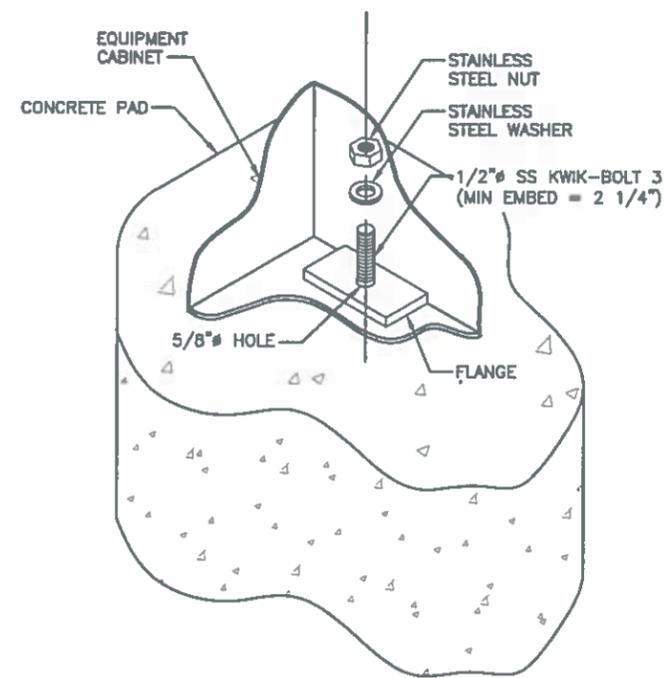
CONCRETE FILLED BOLLARD DETAIL

1



GENERATOR ELEVATION

4



NOTES:

1. VERIFY LOCATION & QUANTITY OF ANCHORS WITH EQUIPMENT CABINET INSTALLATION MANUAL.
2. PLACE CABINET GASKET & RUBBER WASHERS AS REQUIRED BY CABINET MANUFACTURER.

CABINET ANCHORING DETAIL

2

STAMP
PRELIMINARY ISSUE

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 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION #E-671

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	18096	CIVIL
CS CHRISTOPHER GIANNOTTI	28673	CIVIL
PJD PATRICK J. DAVIS	25067	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
DW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	6250	ELECTRICAL

APPLICANT
verizon

PLANS PREPARED FOR

PLANS PREPARED BY

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 TBD

SITE ADDRESS
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 OTTAWA, KS 66067

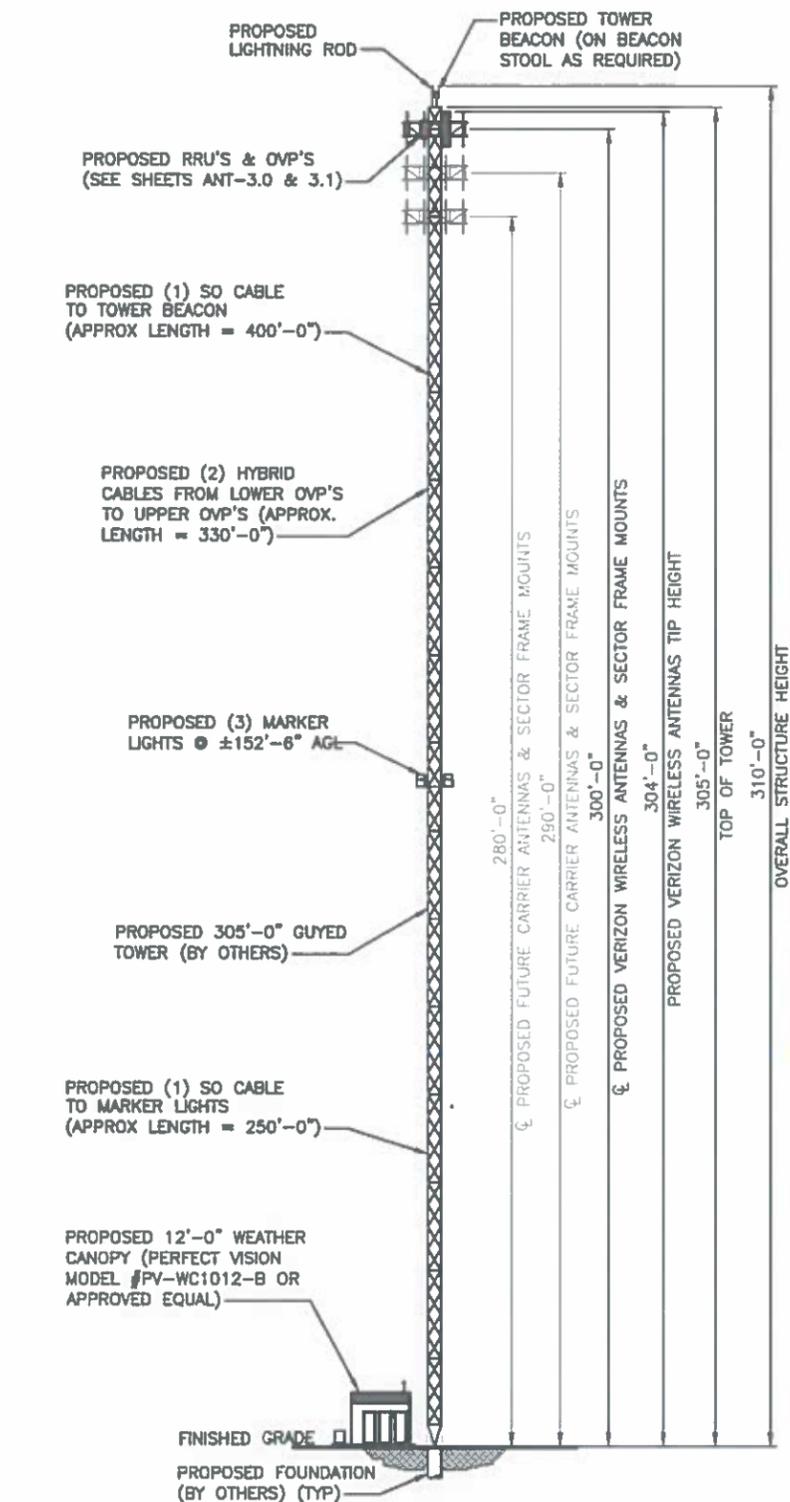
SHEET DESCRIPTION
 DETAILS (2 OF 2)

SHEET #
 EQ-1.2

NEW/2VZV UTILITY EASEMENT
ACCESS/UTILITY EASEMENT
VZV LANDSPACE
PENETRATIONS
RR/HBBU
ANTENNAS
FIBER
POWER/ GROUNDING
HYBRID & COAX CABLES

TOWER LIGHTING NOTE:

PROPOSED TOWER BEACON/MARKER LIGHTS @ TOP OF TOWER TO COMPLY WITH FAA TYPE E1 FROM 200'-0" - 350'-0" AGL (FTS PART# F1702010 OR EQUIVALENT).



TOWER ELEVATION

NOTE:

GC TO REFER TO THE "FINAL RFDS" FOR RF CONFIGURATION DETAIL

GENERAL NOTES:

1. ANTENNAS SHALL BE DESIGNATED FROM RIGHT TO LEFT, FACING THE ASSEMBLY FROM THE GROUND. LEFT TO RIGHT FACING THE BACK OF THE ANTENNA.
2. THE OUTERMOST ANTENNAS ON EACH FACE SHALL BE DESIGNATED AS THE RECEIVER ANTENNAS. THE INNER ANTENNAS SHALL BE DESIGNATED AS THE TRANSMIT ANTENNAS.
3. ALL TRANSMISSION LINES SHALL BE COLOR CODED AT EACH END WITH COLORED TAPE OF COLLARS TO IDENTIFY TECHNOLOGY AND SECTOR. COLOR CODE SHALL BE IN COMPLIANCE WITH THE VERIZON COLOR SCHEME.
4. IN TWO-ANTENNA CONFIGURATION WHERE ONE ANTENNA WILL BE DIPLEXED, THE DIPLEXED ANTENNA SHALL BE LABELED AS RECEIVE.
5. CONTRACTOR SHALL FIELD VERIFY THE EXACT TMA'S (IF THEY ARE REQUIRED) PER THE OPERATIONS MANAGER.
6. FEEDLINE LENGTHS INDICATED ARE APPROXIMATE. CONTRACTOR TO VERIFY ACTUAL LENGTHS BEFORE ORDERING.
7. CONTRACTOR SHALL INSTALL PLATFORM OR MOUNTING BRACKETS AND HARDWARE FOR ALL ANTENNAS AND SHALL BE INSTALLED PER THE TOWER MANUFACTURER'S STANDARD DETAILS OR APPROVED EQUAL.
8. PIM DEVICE SHALL BE INSTALLED WITHIN 10'-0" OF ANTENNAS

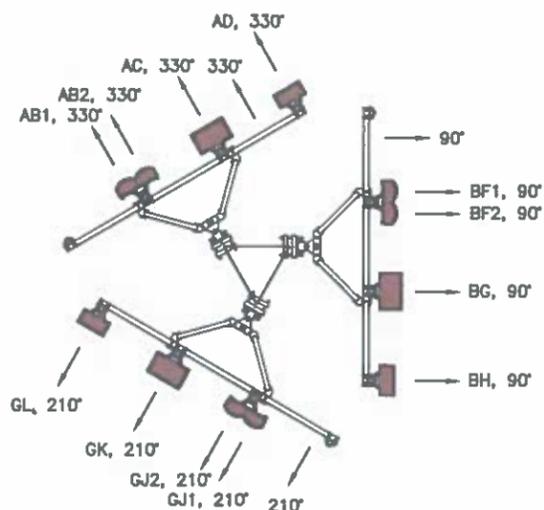
EQUIPMENT FURNISHED AND/OR INSTALLED BY:

DESCRIPTION	FURNISHED	INSTALLED
ANCHOR BOLTS FOR TOWER	TOWER VENDOR	STC
ANTENNA MOUNTS	TOWER VENDOR	CONTRACTOR
ANTENNAS	VERIZON WIRELESS	CONTRACTOR
FEEDLINE CABLES	VERIZON WIRELESS	CONTRACTOR
CONNECTORS	CONTRACTOR	CONTRACTOR
ENTRY PORT BOOTS	CONTRACTOR	CONTRACTOR
GPS ANTENNA	VERIZON WIRELESS	CONTRACTOR
GROUND KITS	CONTRACTOR	CONTRACTOR
HANGAR KITS	CONTRACTOR	CONTRACTOR
ICE BRIDGE MATERIAL	CONTRACTOR	CONTRACTOR
RF JUMPERS (TOP)	CONTRACTOR	CONTRACTOR
EQUIPMENT PLATFORM/CANOPY	VERIZON WIRELESS	CONTRACTOR
TOWER	STC	STC
TOWER BUS BARS	CONTRACTOR	CONTRACTOR
OVP'S	VERIZON WIRELESS	CONTRACTOR
RRU'S	VERIZON WIRELESS	CONTRACTOR

NOTE:

LOCATIONS OF ANTENNAS AS SHOWN HAVE BEEN APPROVED BY CLIENT AND/OR CLIENT'S RADIO FREQUENCY ENGINEERS. SSC ASSUMES NO RESPONSIBILITY FOR, NOR HAS SSC PERFORMED ANY INVESTIGATIONS OR STUDIES CONCERNING, THE COMPLIANCE OR NONCOMPLIANCE OF SAID ANTENNA LOCATIONS WITH ANY FCC RADIO FREQUENCY EXPOSURE REGULATIONS.

ALL STRUCTURE INFORMATION SHOWN IS FOR ILLUSTRATION PURPOSES ONLY, AND MAY DIFFER FROM THE FINAL DESIGN PROVIDED BY THE STRUCTURE MANUFACTURER. THE CONTRACTOR SHALL CONSTRUCT THE STRUCTURE, FOUNDATION, AND ALL OTHER RELATED COMPONENTS IN ACCORDANCE WITH THE STRUCTURE MANUFACTURER'S DRAWINGS AND SPECIFICATIONS.



NOTES:

1. ANTENNAS MUST BE SPACED WITHIN 13.5" CENTER-TO-CENTER
2. THE ANTENNA LAYOUT IS FOR ANTENNA ORIENTATION ONLY. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE PER TOWER MANUFACTURER'S STANDARD DETAILS.

ANTENNA LAYOUT NOT TO SCALE

ANTENNA PLAN & GENERAL NOTES

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE

STATE OF KANSAS

PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CG CHRISTOPHER GIANNOTTI	29873	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT

PLANS PREPARED FOR

PLANS PREPARED BY

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MLA SITE NAME

STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION

TOWER ELEVATION & ANTENNA INFORMATION

SHEET #

ANT-1.0

- NEW VZW UTILITY EASEMENT
- ACCESSIBILITY EASEMENT
- VZW LANDSPACE
- PENETRATIONS
- RR/BBU
- ANTENNAS
- FIBER
- POWER/ GROUNDING
- HYBRID & COAX CABLES

NOTE:
GC TO REFER TO THE "FINAL RFDS" FOR RF CONFIGURATION DETAIL

RF DIAGRAM

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

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KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16090	CIVIL
CG CHRISTOPHER GIANNOTTI	29871	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SOK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT



PLANS PREPARED FOR



PLANS PREPARED BY



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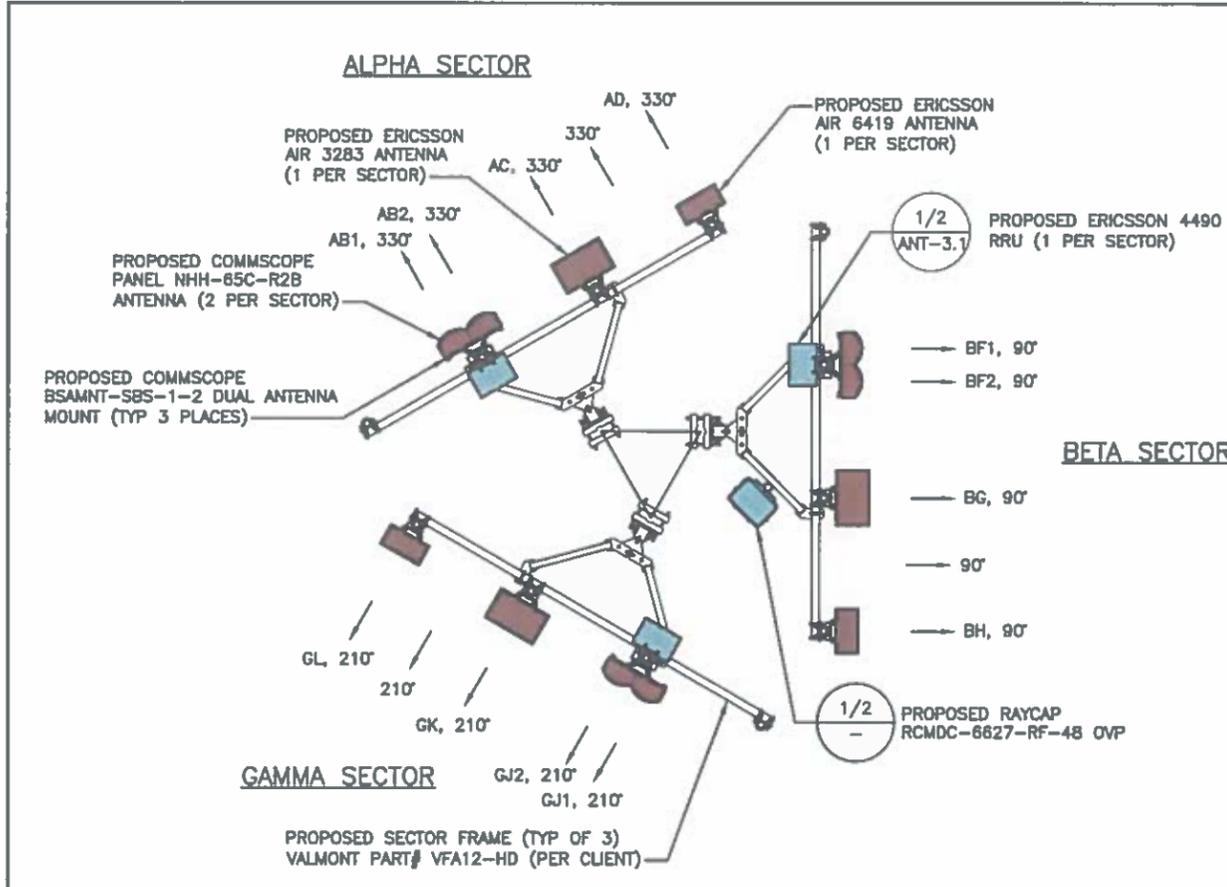
MTPL NEVADA RELHR
TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

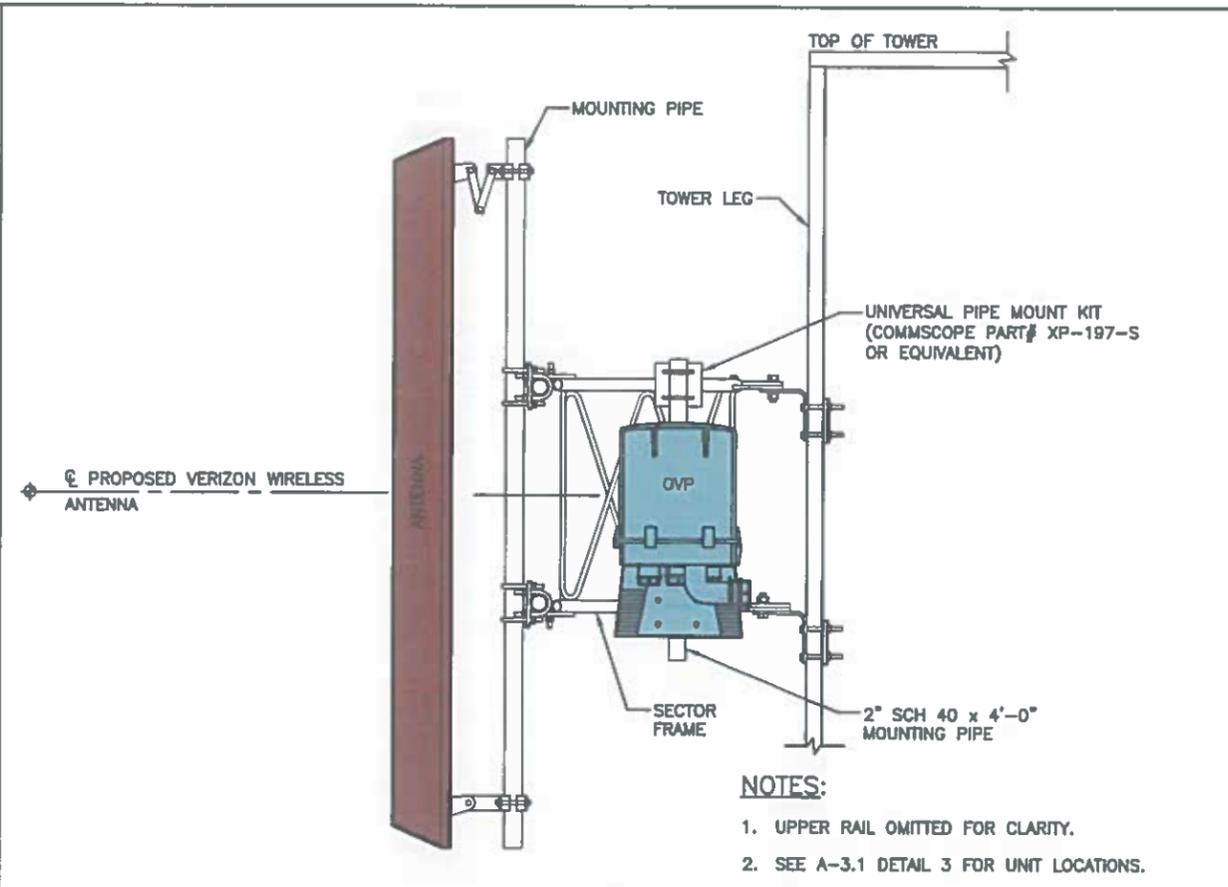
SHEET DESCRIPTION	SHEET #
RF DIAGRAM	ANT-2.0

NEW/VZW UTILITY EASEMENT
 ACCESSIBILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/HBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



SECTOR EQUIPMENT LAYOUT

3



OVP MOUNTING DETAIL

1

Procedure Mounting Procedures

4.1 A mounting base is delivered with the unit. The base allows either wall/ladder or pole mounted installation. See picture to identify the holes for each installation method.



4.2 **Option 1: Pole Mount**
Using supplied hardware, mount Bracket to 2" to 4" diameter pole.

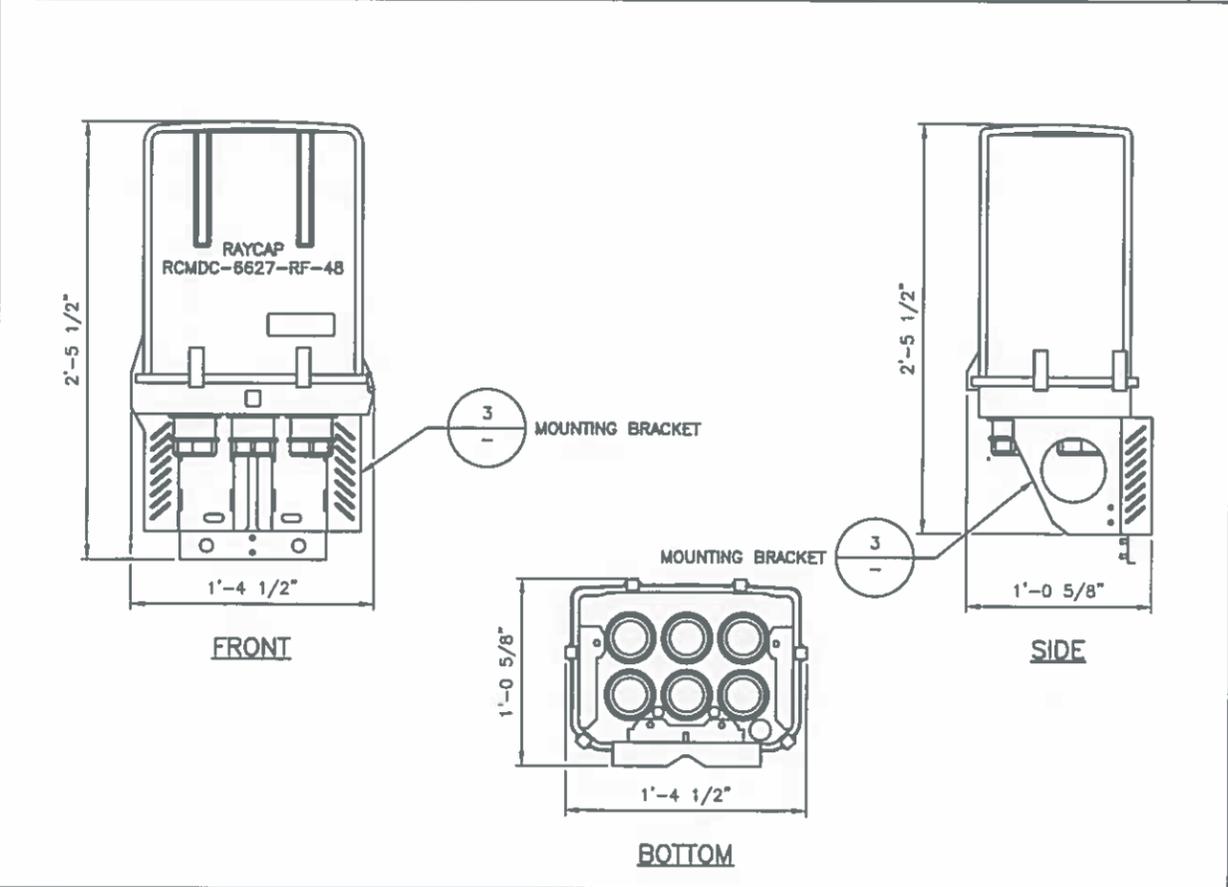
4.3 **Option 2: Unistrut**

4.4 **Option 3: Monopole**
Use 1" stainless steel bands (not supplied) through slots on bracket to mount to Monopole.

- Pole Mount
- Unistrut
- Monopole

OVP MOUNT DETAIL

4



OVP DETAIL

2

STAMP

PRELIMINARY ISSUE

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STATE OF KANSAS

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PJD PATRICK J. DAVIS	25087	CIVIL
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APPLICANT

verizon

PLANS PREPARED FOR

STC

PLANS PREPARED BY

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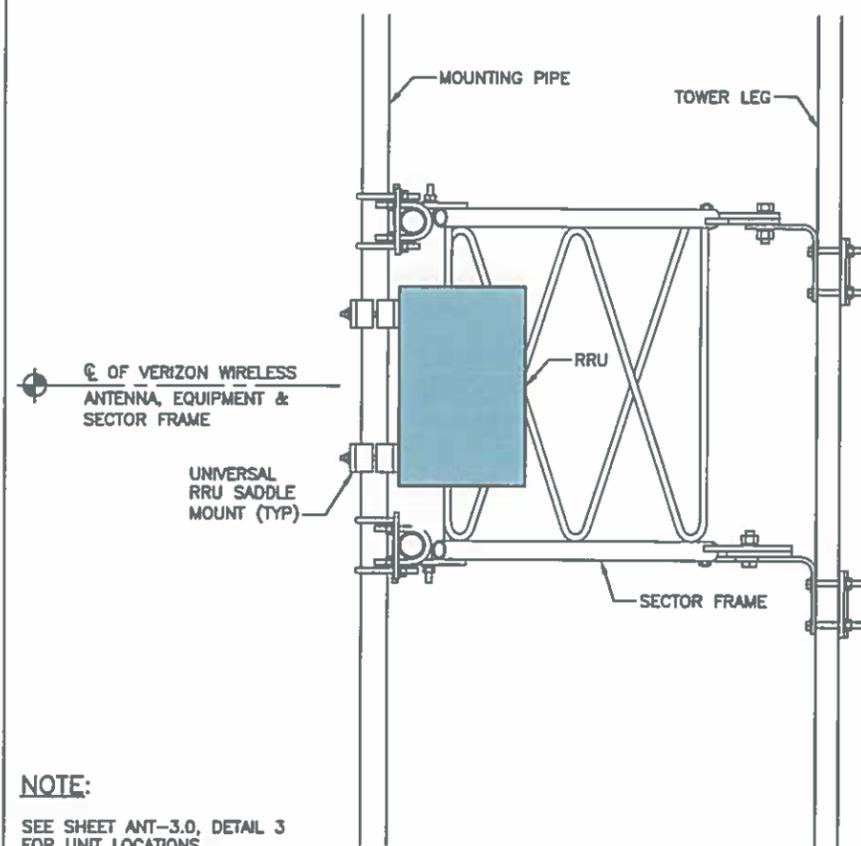
SHEET DESCRIPTION

EQUIPMENT
DETAILS
(1 OF 3)

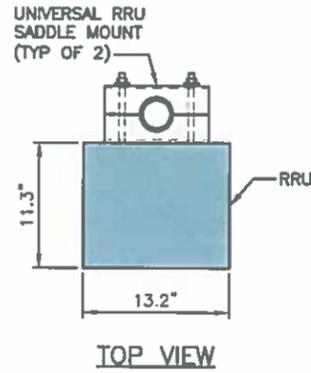
SHEET #

ANT-3.0

NEW VZW UTILITY EASEMENT
 ACCESS UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RRH/BBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



NOTE:
 CONTRACTOR SHALL INSTALL RRU'S
 W/ MOUNTING INSTRUCTIONS PER
 MANUFACTURER'S SPECIFICATIONS.



NOTE:
 SEE SHEET ANT-3.0, DETAIL 3
 FOR UNIT LOCATIONS.

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P-AD PATRICK J. DAVIS	25087	CIVIL
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SHEET DESCRIPTION
 EQUIPMENT
 DETAILS
 (2 OF 3)

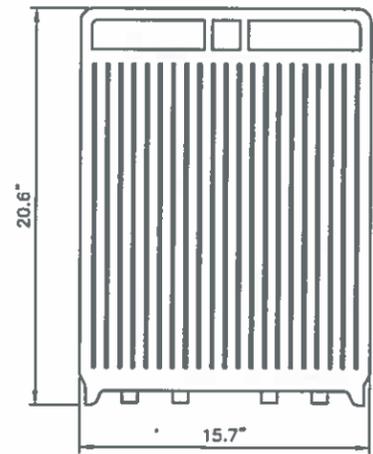
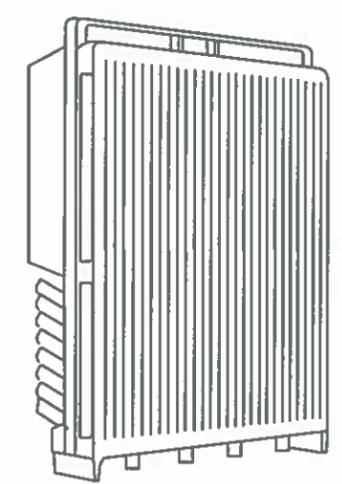
SHEET #
 ANT-3.1

DETAIL NOT USED

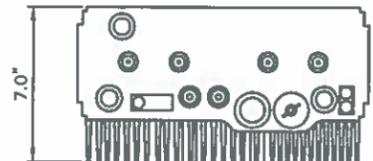
3

RRU SECTOR FRAME MOUNTING DETAILS

1



FRONT



BOTTOM

NOTE:
 CONTRACTOR SHALL INSTALL RRU
 WITH MOUNTING INSTRUCTIONS PER
 MANUFACTURER'S SPECIFICATION.

SPECIFICATIONS:
 VENDOR: ERICSSON
 MODEL#: 4490
 DIMENSIONS (HxWxD): 20.6" x 15.7" x 7.0"
 WEIGHT: 68.4 LBS

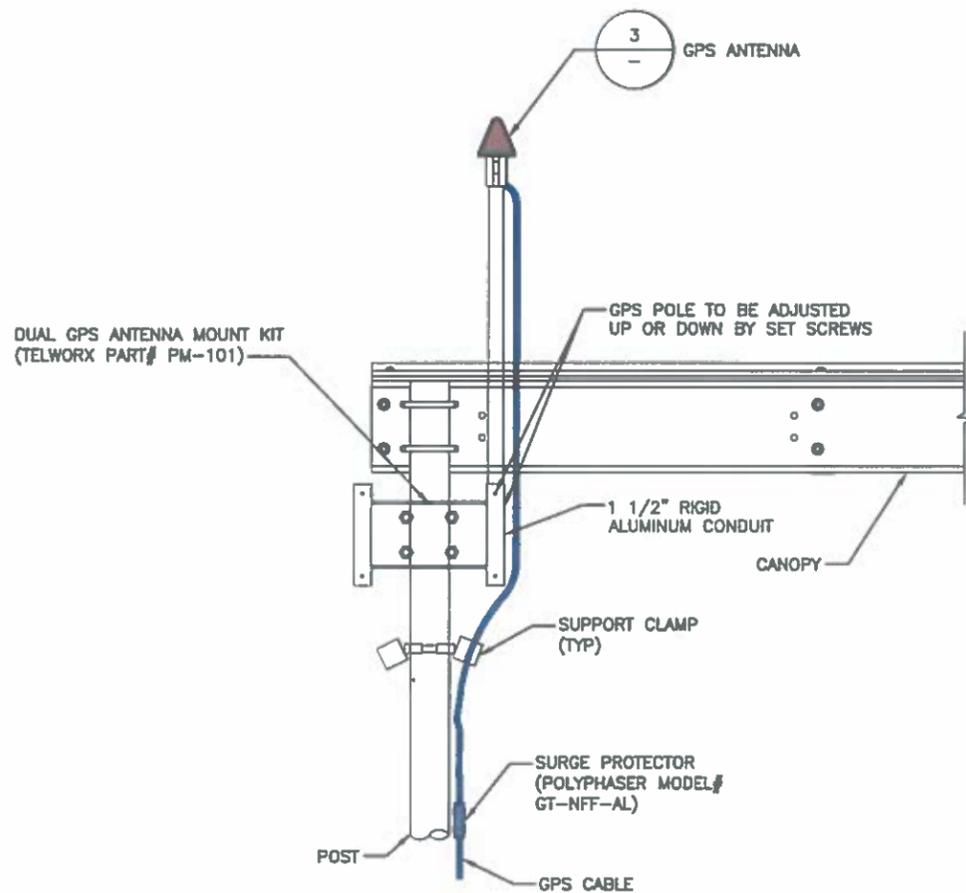
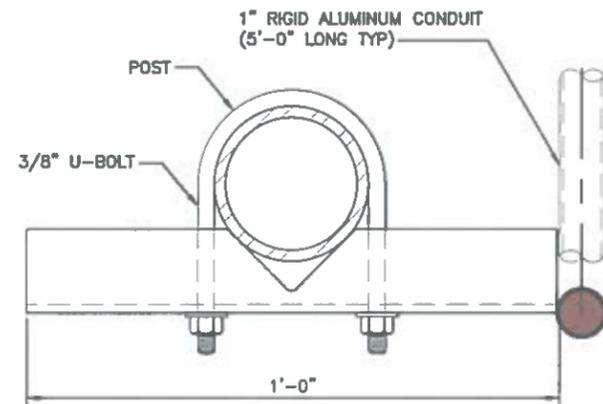
DETAIL NOT USED

4

ERICSSON 4490 RRU DETAIL

2

NEW/UTILITY EASEMENT
ACCESS/UTILITY EASEMENT
VZV LANDSPACE
PENETRATIONS
RR/HBBU
ANTENNAS
FIBER
POWER/ GROUNDING
HYBRID & COAX CABLES

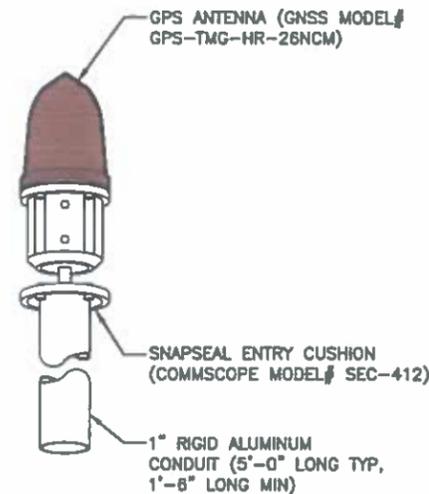


GPS ANTENNA MOUNTING DETAIL

5

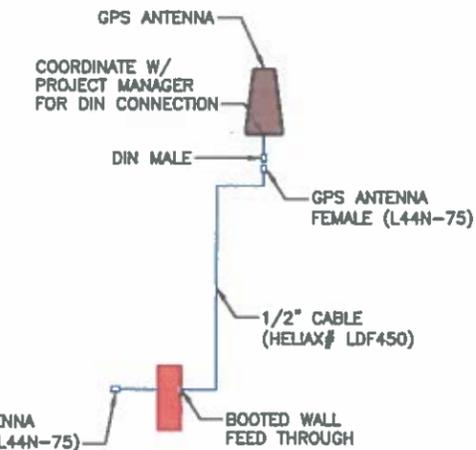
NOTE:

INSTALL GPS ON THE CANOPY POST OR UTILITY H-FRAME POST TO AVOID OBSTRUCTIONS (TYP OF 2)



GPS ANTENNA DETAIL

3



GPS ANTENNA CABLE RUN DIAGRAM

1

MOUNT GPS ANTENNA TO POST

1. ICE BRIDGE POST - IF THERE ARE NO TREES OR OBSTRUCTIONS BLOCKING THE SOUTHERN HEMISPHERE USE BACK TO BACK CLAMPS ON TO ICE BRIDGE POST OR UTILITY RACK POST.
 - A. USING DUAL MOUNT GPS ANTENNA KIT (TELWORX # PM-101 KIT OR APPROVED EQUAL) THE KIT INCLUDES (2) PC TELWORX GPS ANTENNAS, THE DUAL MOUNT, 2 SURGE ARRESTORS, AND COAX PORT BOOT THAT CAN HOLD 4 1/2" COAX.
 - B. MOUNT GPS ANTENNA MOUNT (BOTTOM) 7'-0" OFF GROUND. THE GPS POLES CAN BE ADJUSTED UP/DOWN BY SET SCREW ON BASE THAT HOLDS POLES. WHEN EXTENDED UP THE GPS ANTENNAS SHOULD BE JUST ABOVE THE CANOPY LINE. WHEN LOWERED THEY SHOULD BE APPROXIMATELY 8'-8" OFF THE GROUND AND REACHABLE FROM A 6'-0" LADDER.

MOUNT GPS ANTENNAS TO WALL OR TOWER

1. BUILDING - IF THERE ARE NO TREES OR OBSTRUCTIONS BLOCKING THE SOUTHERN HEMISPHERE AND IF THERE ARE NO EQUIPMENT RACK PIPES:
 - A. USING DUAL MOUNT GPS ANTENNA KIT (TELWORX # PM-101 KIT OR APPROVED EQUAL) WALL MOUNTED APPLICATION SHALL USE OFFSET BRACKETS.
2. TOWER - IF THERE ARE NEARBY TREES, BUILDINGS OR OTHER OBSTRUCTIONS, (2) ANTENNAS, COAX, AND MOUNTS WILL BE NEEDED (1) INSTALLED FOR REDUNDANCY, (1) WILL BE ATTACHED AT SAME LEVEL AS CELLULAR ANTENNAS USING EXISTING MOUNTS IF POSSIBLE WITH BACK TO BACK CLAMPS.

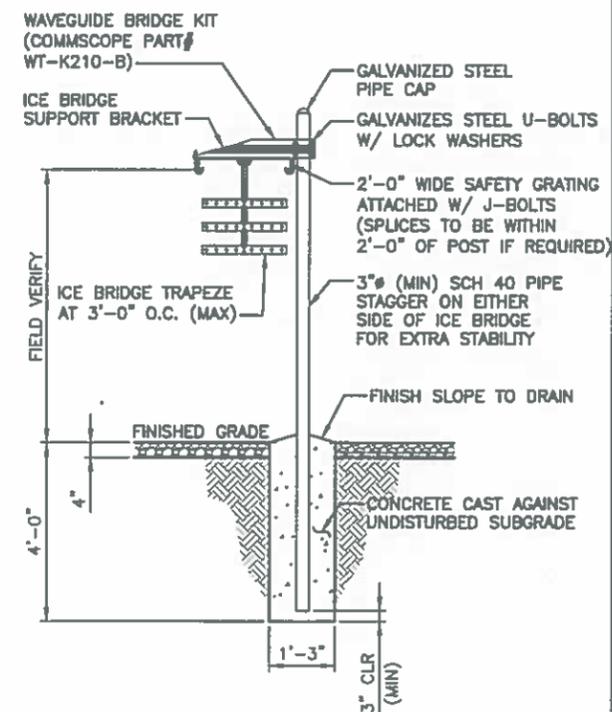
CONTRACTORS SHALL ORDER DUAL TELWORX GPS ANTENNAS FROM THE FOLLOWING CONTACT PERSON:

EARL J. OSTERTAG
SR. EQUIPMENT ENGINEER --
KSMO (816) 868-0009

TELWORX COMMUNICATIONS, LLC
BUSINESS DEVELOPMENT DIRECTOR
CENTRAL REGION
239 WELCOME CENTER BLVD
LEXINGTON, N.C. 27295
P.O.C. ANDREW TRIPP
WORK: (773) 706-0107
WWW.TELWORX.NET
WWW.TOWERWORX.NET

GPS MOUNTING INSTRUCTIONS

4



NOTE:

FURNISHED & INSTALLED BY CONTRACTOR.

ICE BRIDGE SUPPORT POST DETAIL

2

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16098	CIVIL
CG CHRISTOPHER GIANNOTTI	29873	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
BDK SHELTON D. KEISLING	13854	ELECTRICAL
DWY DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL



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SUBMITTALS

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	09/30/25	AWD	A
REISSUED PER CLIENT COMMENTS	11/04/25	AWD	B

MLA SITE NAME
STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
MTPL NEVADA RELHR
TBD

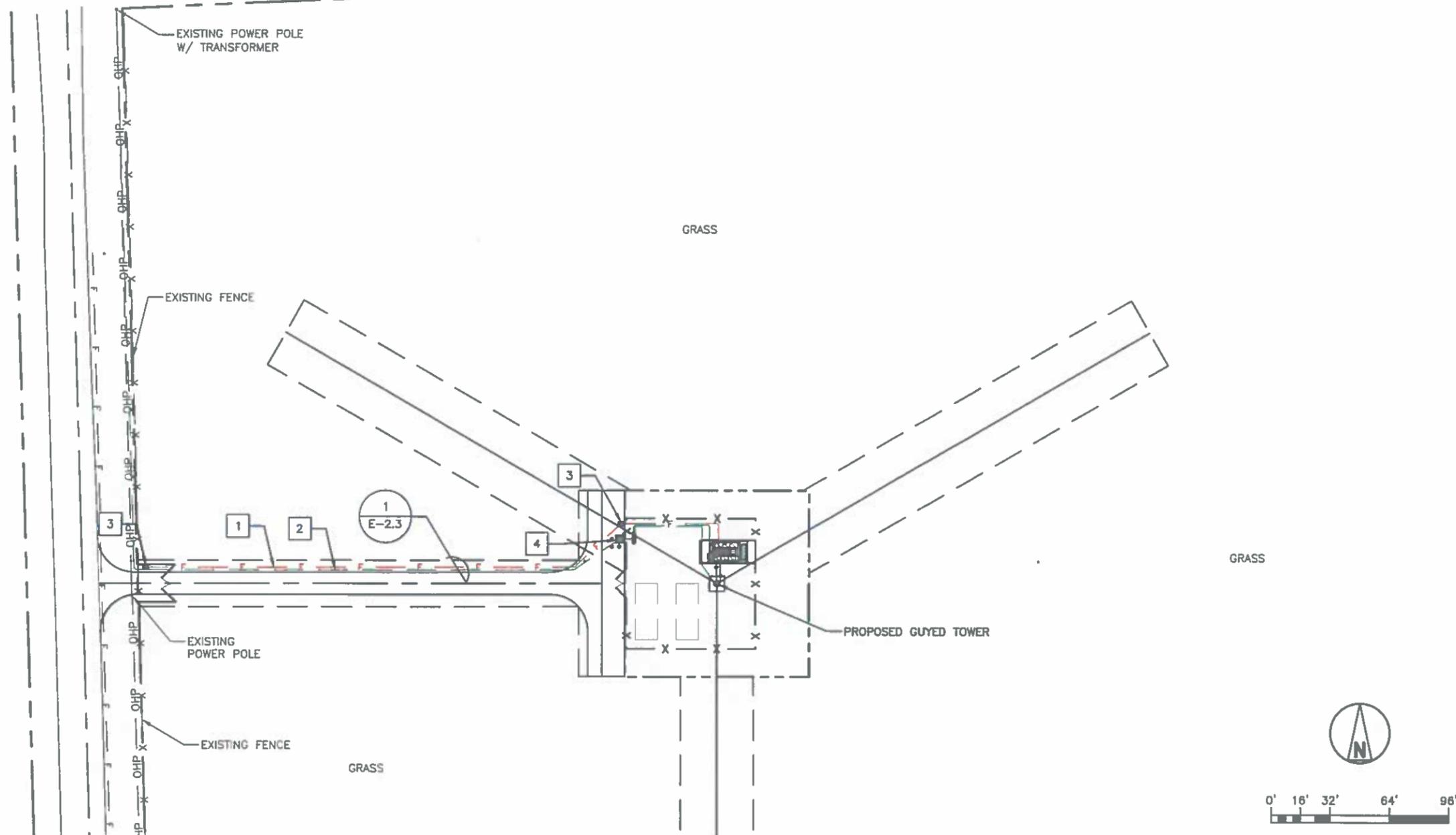
SITE ADDRESS
3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
EQUIPMENT DETAILS (3 OF 3)	ANT-3.2

NEW/VZV UTILITY EASEMENT
 ACCESSIBILITY EASEMENT
 VZV LANDSPACE
 PENETRATIONS
 RH/RBLU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES

KEYED NOTES:

- 1 PROPOSED 4" CONDUIT W/ (3) 1" INNERDUCTS, PULL ROPE & TRACE WIRE FOR FIBER FROM TRAFFIC RATED FIBER HANDHOLE AT RIGHT-OF-WAY TO TRAFFIC RATED FIBER HANDHOLE AT COMPOUND. (APPROX. LENGTH = 275'-0")
- 2 PROPOSED 2" CONDUIT WITH PULL ROPE FOR PRIMARY POWER FROM SOURCE TO PAD MOUNTED TRANSFORMER (APPROX. LENGTH = 575'-0") (CONTRACTOR SHALL FIELD VERIFY & COORDINATE CONNECTION POINT W/ LOCAL UTILITY COMPANY)
- 3 PROPOSED 3'-0"x2'-0"x2'-0" TRAFFIC RATED FIBER HANDHOLE (COVER SHALL BE STAMPED "VERIZON")
- 4 PROPOSED PAD MOUNTED UTILITY TRANSFORMER (BY UTILITY COMPANY) ON CONCRETE PAD (BY CONTRACTOR PER UTILITY COMPANY STANDARDS)



OVERALL UTILITY PLAN

1/32" = 1'-0" (22"x34")
 1/64" = 1'-0" (11"x17")

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	15098	CIVIL
CG CHRISTOPHER GIANNOTTI	25073	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT



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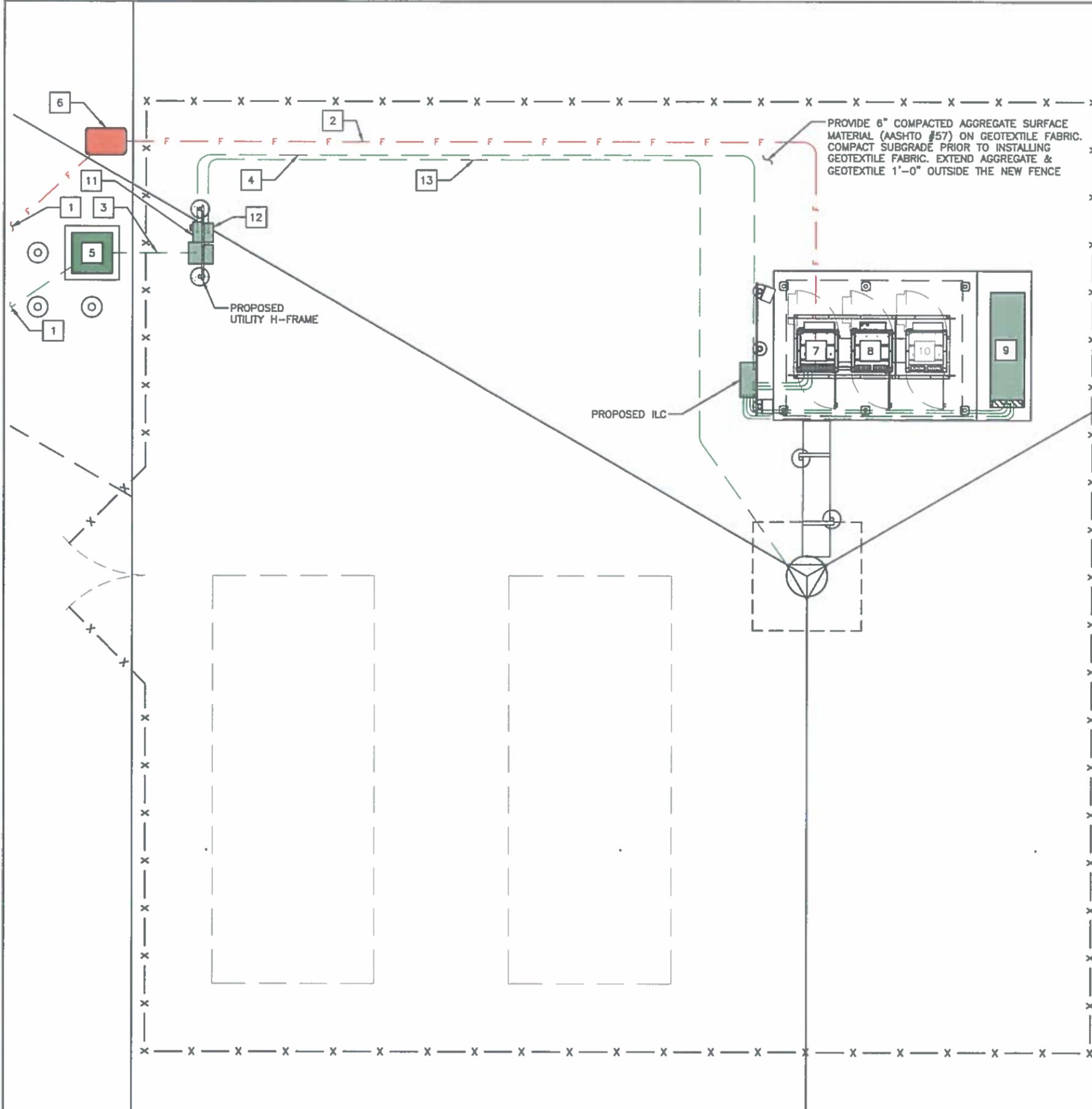
MLA SITE NAME
 STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
 MTPL NEVADA RELHR
 TBD

SITE ADDRESS
 3751 NEVADA ROAD
 OTTAWA, KS 66067

SHEET DESCRIPTION OVERALL UTILITY PLAN	SHEET # E-1.0
---	------------------

NEW VZW UTILITY EASEMENT
 ACCESSIBILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/WBUB
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



KEYED NOTES:

- 1 SEE OVERALL UTILITY PLAN (SHEET E-1.0) FOR SIZES, LENGTHS & CONTINUATION OF UTILITIES.
- 2 PROPOSED 2" CONDUIT W/ PULL ROPE AND TRACE WIRE FOR FIBER FROM TRAFFIC RATED FIBER HANDHOLE AT COMPOUND TO EQUIPMENT CABINET. (APPROX. LENGTH = 80'-0")
- 3 PROPOSED (2) 4" CONDUITS FOR POWER FROM PAD MOUNTED TRANSFORMER TO METER CENTER ON UTILITY H-FRAME (APPROX. LENGTH = 15'-0")
- 4 PROPOSED 2" CONDUIT W/ PULL ROPE FOR POWER FROM METER CENTER TO ILC ON UTILITY H-FRAME (APPROX. LENGTH = 75'-0")
- 5 PROPOSED PAD MOUNTED UTILITY TRANSFORMER
- 6 PROPOSED 3'-0"x2'-0"x2'-0" TRAFFIC RATED FIBER HANDHOLE (COVER SHALL BE STAMPED "VERIZON")
- 7 PROPOSED EQUIPMENT CABINET
- 8 PROPOSED BATTERY CABINET
- 9 PROPOSED GENERATOR
- 10 FUTURE CABINET
- 11 PROPOSED METER CENTER
- 12 PROPOSED TOWER LIGHTING CONTROLLER
- 13 PROPOSED 2" CONDUIT FOR TOWER LIGHTING CABLE FROM TOWER LIGHTING CONTROLLER TO TOWER LEG (APPROX. LENGTH = 80'-0")

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-471

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CG CHRISTOPHER GIANNOTTI	25873	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
DLW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	8250	ELECTRICAL

APPLICANT

verizon

PLANS PREPARED FOR



PLANS PREPARED BY



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STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR
TBD

SITE ADDRESS

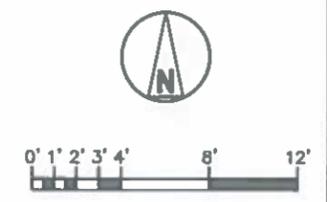
3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION

ENLARGED UTILITY PLAN

SHEET #

E-1.1



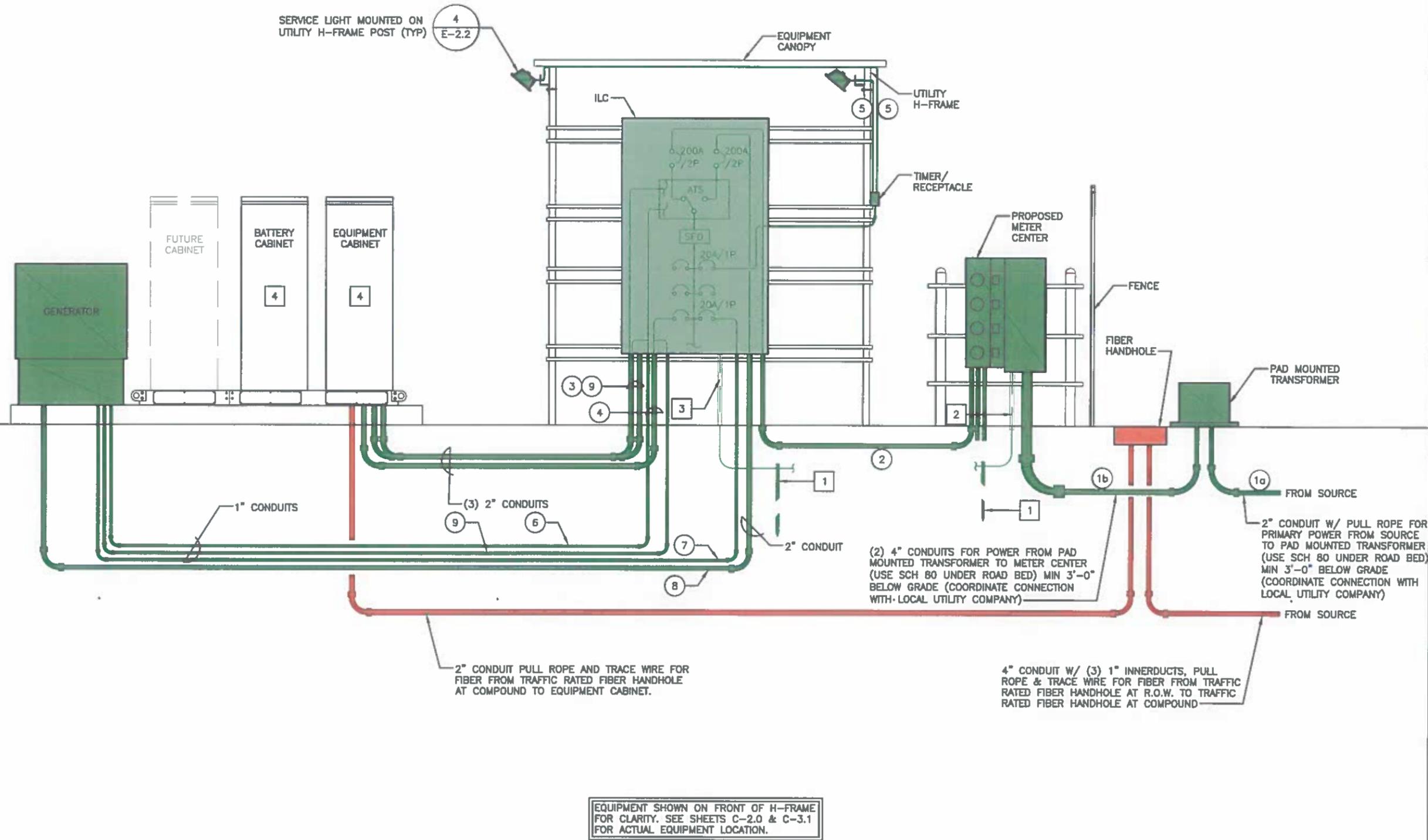
ENLARGED UTILITY PLAN

1/4" = 1'-0" (22"x34")
 1/8" = 1'-0" (11"x17")

NEW VZM UTILITY EASEMENT
 ACCESSIBILITY EASEMENT
 VZM LANDSPACE
 PENETRATIONS
 RR/HBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES

KEYED NOTES:

- 1 PROPOSED 3/4" x 10'-0" LONG COPPER CLAD STEEL GROUND ROD. (SEE SHEET G-4.1, DETAIL 5)
- 2 PROPOSED #2/0 STRANDED INSULATED COPPER GROUNDING ELECTRODE CONDUCTOR
- 3 PROPOSED #2 STRANDED INSULATED COPPER GROUNDING CONDUCTOR
- 4 CONTRACTOR TO PROVIDE AN AC POWER SMOKE DETECTOR (GENTEXT PART# 7100F OR EQUIVALENT) FOR EACH CABINET & (1) HIGH TEMPERATURE ALARM (GRAINGER PART# 1UHH2) FOR THE EQUIPMENT CABINET.
- ⓘ SEE SHEET E-2.1 FOR CIRCUIT SCHEDULE



EQUIPMENT SHOWN ON FRONT OF H-FRAME FOR CLARITY. SEE SHEETS C-2.0 & C-3.1 FOR ACTUAL EQUIPMENT LOCATION.

UTILITY RISER DIAGRAM

STAMP
PRELIMINARY ISSUE

ENGINEERING LICENSE
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-671

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CC CHRISTOPHER GIANNOTTI	25673	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT
verizon

PLANS PREPARED FOR
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MLA SITE NAME
 STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
 MTPL NEVADA RELHR
 TBD

SITE ADDRESS
 3751 NEVADA ROAD
 OTTAWA, KS 66067

SHEET DESCRIPTION
 UTILITY RISER DIAGRAM

SHEET #
 E-2.0

NEW VZW UTILITY EASEMENT
ACCESS UTILITY EASEMENT
VZW LANDSPACE
PENETRATIONS
RRHBBU
ANTENNAS
FIBER
POWER & GROUNDING
HYBRID & COAX CABLES

COMMON VERIZON WIRELESS DC PLAN RECTIFIER REQUIREMENTS			
RECTIFIER	INPUT FLA CURRENT AT 240V AC (EACH RECTIFIER)	2 RECTIFIER BRANCH CIRCUIT ALTERNATE APPROACH	1 RECTIFIER BRANCH CIRCUIT ALTERNATE APPROACH
VERITIV 3500W (R48-2000e3 OR SIM)	15.5 AMPS	40A/2P (OR 45A/2P) #8 THHN	30A/2P #10 THHN
GE 75A (NED75AC48xxx OR SIM)	22 AMPS (MAX)	60A/2P #8 THHN	30A/2P #6 THHN
OTHER - COORDINATE W/ VENDOR	REFER TO CUT SHEET	REFER TO CUT SHEET	REFER TO CUT SHEET

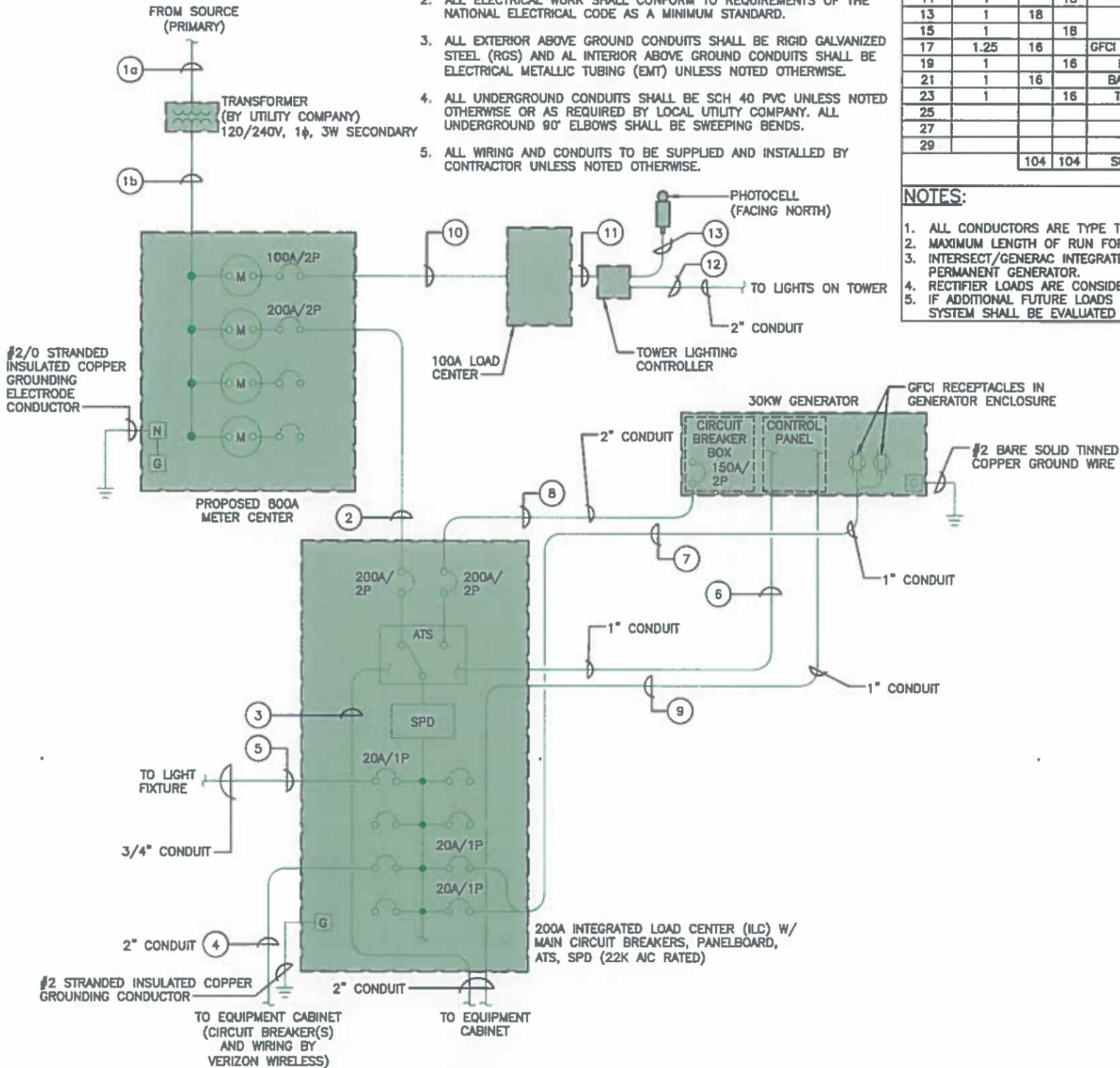
PANEL SCHEDULE			
PANEL NAME:	MODEL #:	INTERSECT AA300G-1PH-3R	
RATED VOLTAGE: 240 120 VOLTS	PHASE/WIRE: 1 3		
MAIN BREAKER: 200 AMPS	BUS RATING: 200	KEY DOOR HATCH: YES	
MOUNT: SURFACE	NEUTRAL BAR: YES	HINGED DOOR: YES	
ENCLOSURE TYPE: NEMA 3R	AIC: 85K		

LOAD CALCULATIONS	
LOAD	AMPS
PROPOSED LOAD	140.0
TOTAL DEMAND	140.0
VOLTAGE: 120/240V, 1φ, 3W, 200A	

POS	USAGE FACTOR	BUS AMPS L1 L2	LOAD	POLES	AMPS	L1 L2	AMPS	POLES	LOAD	BUS AMPS L2 L1	USAGE FACTOR	POS
1	1	18	RECTIFIER	2	30A		30A	2	FUTURE RECTIFIER	18	1	2
3	1	18								18	1	4
5	1	18	RECTIFIER	2	30A		30A	2	FUTURE RECTIFIER	18	1	6
7	1	18								18	1	8
9	1	18	RECTIFIER	2	30A							10
11	1	18										12
13	1	18	RECTIFIER	2	30A							14
15	1	18										16
17	1.25	16	GFCI RECEPTACLE/LIGHT	1	20A							18
19	1	16	BLOCK HEATER	1	20A							20
21	1	16	BATTERY CHARGER	1	20A							22
23	1	16	TOWER LIGHTING	1	20A							24
25												26
27												28
29												30
SUB TOTAL AMPS										36	36	
FACTORED TOTAL AMPS										140	140	

- GENERAL NOTES:**
- SEE SHEET GN-1.0 FOR LEGEND.
 - ALL ELECTRICAL WORK SHALL CONFORM TO REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AS A MINIMUM STANDARD.
 - ALL EXTERIOR ABOVE GROUND CONDUITS SHALL BE RIGID GALVANIZED STEEL (RGS) AND AL INTERIOR ABOVE GROUND CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT) UNLESS NOTED OTHERWISE.
 - ALL UNDERGROUND CONDUITS SHALL BE SCH 40 PVC UNLESS NOTED OTHERWISE OR AS REQUIRED BY LOCAL UTILITY COMPANY. ALL UNDERGROUND 90° ELBOWS SHALL BE SWEEPING BENDS.
 - ALL WIRING AND CONDUITS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.

- NOTES:**
- ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER.
 - MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUIT IS 50'-0".
 - INTERSECT/GENERAC INTEGRATED LOAD CENTER INCLUDES 200A MAIN DISCONNECT & TRANSFER SWITCH FOR PORTABLE OR PERMANENT GENERATOR.
 - RECTIFIER LOADS ARE CONSIDERED TO BE NON-CONTINUOUS.
 - IF ADDITIONAL FUTURE LOADS ARE ADDED WHICH CAUSE TOTAL DEMAND TO EXCEED GENERATOR BREAKER SIZE, BACKUP POWER SYSTEM SHALL BE EVALUATED & UPGRADED AS NECESSARY.



CIRCUIT SCHEDULE				
NO.	FROM	TO	CONFIGURATION	FUNCTION
1a	SOURCE	TRANSFORMER	2" (CONDUCTORS BY UTILITY COMPANY)	PRIMARY
1b	TRANSFORMER	METER CENTER	(2) SETS OF 3-500 KCMIL, EACH IN 4"	SERVICE LATERAL
2	METER CENTER	ILC	3#3/0, 1#6G, 2"	NORMAL POWER FEEDER TO ILC
3	ILC	EQUIPMENT CABINET	(2) CAT5 CABLES	ATS STATUS AND ALARM WIRING CATS - TRANSFER (SWITCH) COMPLETE - UTILITY FAIL, SPD FAIL
4	ILC	EQUIPMENT CABINET	FURNISHED BY VERIZON WIRELESS	POWER FEEDERS TO EQUIPMENT CABINET
5	ILC	LIGHT FIXTURE VIA TIMER & RECEPTACLE	2#12, 1#12G	POWER CIRCUIT TO LIGHT FIXTURES & RECEPTACLE
6	ILC	GENERATOR	2#14, 1#14G	GENERATOR START CIRCUIT
7	ILC	GFCI RECEPTACLES IN GENERATOR	4#12, 1#12G	AUXILIARY GENERATOR LOADS (BATTERY CHARGER & JACKET WATER HEATER)
8	GENERATOR	ILC	3#3/0, 1#6G	EMERGENCY POWER FEEDER TO ATS
9	GENERATOR	EQUIPMENT CABINET (VIA ILC)	(2) CAT 5 CABLES	GENERATOR STATUS & ALARM WIRING
10	METER CENTER	LOAD CENTER	3#2, 1#8G, 2"	NORMAL POWER FEEDER TO LOAD CENTER
11	LOAD CENTER	TOWER LIGHTING CONTROLLER	PER MANUFACTURER'S REQUIREMENTS	POWER CIRCUIT TO LIGHTING CONTROLLER
12	TOWER LIGHTING CONTROLLER	TOWER LIGHTS	SOOW CABLE, 2"	POWER WIRING TO TOWER LIGHTS
13	TOWER LIGHTING CONTROLLER	PHOTOCELL	PER MANUFACTURER'S REQUIREMENTS	PHOTOCELL WIRING

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-671

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KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CO CHRISTOPHER GUANNOTTI	28673	CIVIL
PJD PATRICK J. DAVIS	25687	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT
verizon

PLANS PREPARED FOR
STC

PLANS PREPARED BY
SSC

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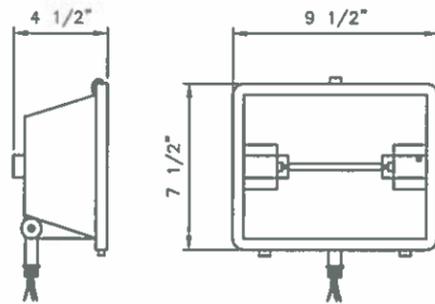
APPLICANT SITE NAME & SITE NUMBER
MTPL NEVADA RELHR
TBD

SITE ADDRESS
3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION
ELECTRICAL ONE-LINE DIAGRAM

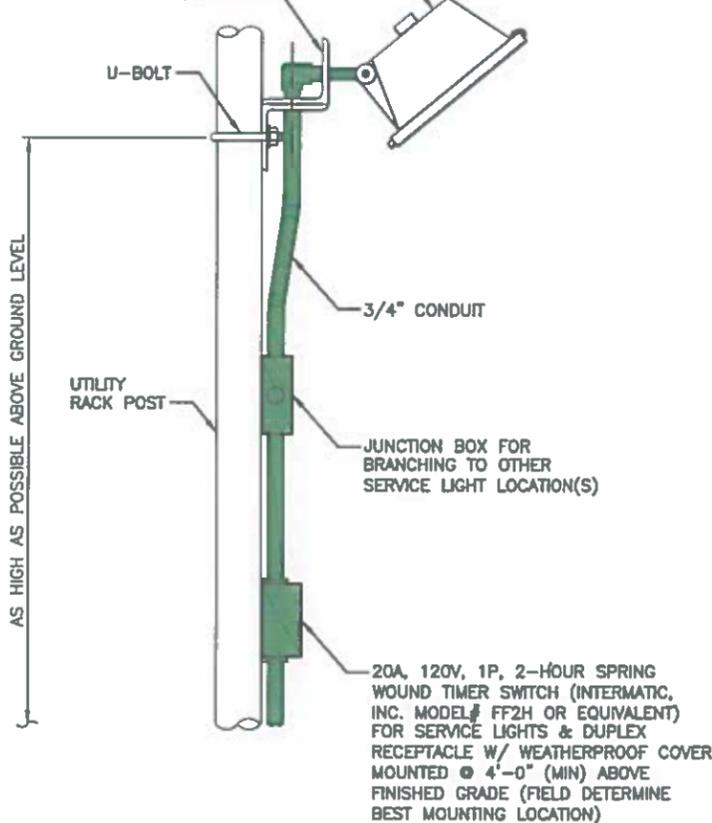
SHEET #
E-2.1

NEW/UTILITY EASEMENT
ACCESS/UTILITY EASEMENT
VZWLANDSPACE
PENETRATIONS
RRHBBU
ANTENNAS
FIBER
POWER/ GROUNDING
HYBRID & COAX CABLES



SERVICE LIGHT TO BE MOUNTED ON UTILITY H-FRAME POST AS HIGH AS POSSIBLE & AIMED TOWARDS EQUIPMENT (TYP OF 2)

CONTRACTOR TO SUPPLY CLIP ANGLE MOUNT (AS REQUIRED)

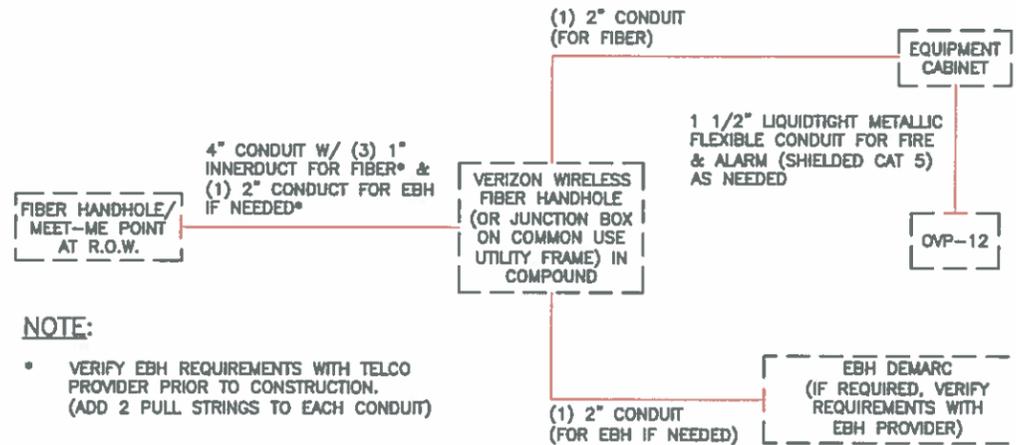


NOTES:

- LIGHT TO BE MOUNTED PER LOCATION REGULATIONS & SHALL NOT SHINE DIRECTLY OUTSIDE OF COMPOUND.
- CONTRACTOR TO INSTALL EACH PIECE OF EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

SERVICE LIGHT DETAIL

4

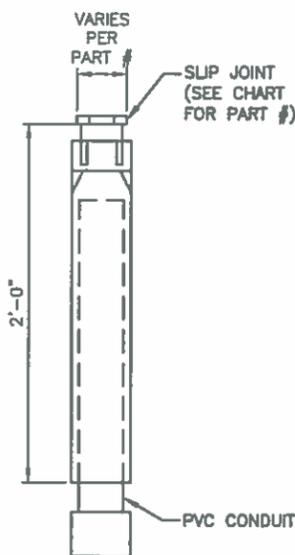


NOTE:

- VERIFY EBH REQUIREMENTS WITH TELCO PROVIDER PRIOR TO CONSTRUCTION. (ADD 2 PULL STRINGS TO EACH CONDUIT)

FIBER ONE-LINE DIAGRAM

1



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

SLIP JOINT DETAIL

3

DETAIL NOT USED

2



ENGINEERING LICENSE
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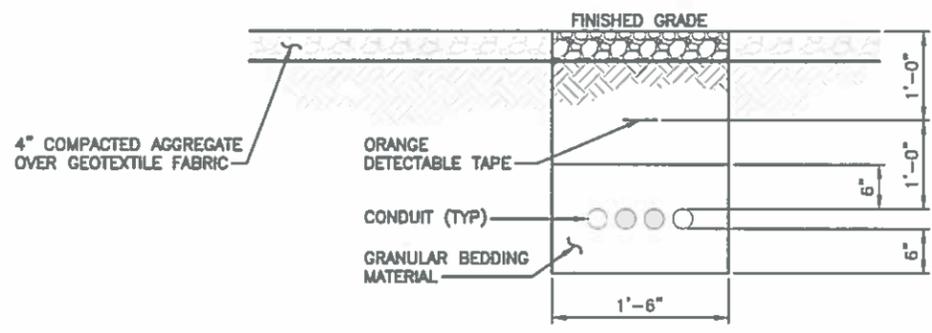
SITE ADDRESS
3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
FIBER ONE-LINE DIAGRAM & UTILITY DETAILS	E-2.2

NEW/VOV UTILITY EASEMENT
 ACCESSIBILITY EASEMENT
 VOV LANDSPACE
 PENETRATIONS
 RR/BBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES

NOTES:

1. SEE SHEET E-1.1 FOR ORIENTATION & CONTINUATION OF CONDUITS.
2. TRENCH, INSTALL CONDUITS & COMPACT SOIL PRIOR TO CONSTRUCTING CONCRETE EQUIPMENT PAD.
3. DO NOT OVER EXCAVATE TRENCHES. KEEP WIDTH TO A MINIMUM.
4. BACKFILL BY PLACING, AND COMPACTING, SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL. THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4" IN LOOSE DEPTH, & COMPACTED WITH HAND OPERATED COMPACTORS.
5. COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.
6. ALL CONDUITS ARE 2" PVC, UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL INSTALL SLIP JOINTS ON ALL CONDUITS AS REQUIRED. (SEE SHEET E-2.2, DETAIL 3).
8. TRACE WIRE SHALL BE INSTALLED IN TRENCH WITH THE FIBER CONDUIT.

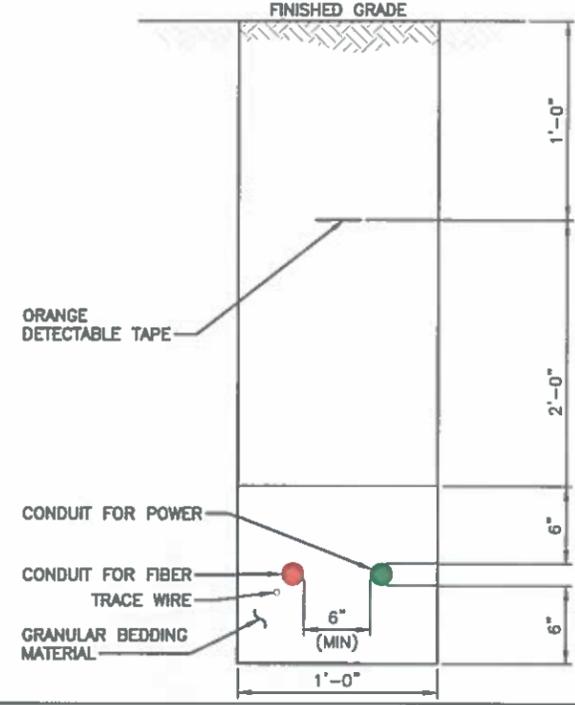


TRENCH DETAIL (SITE)

3

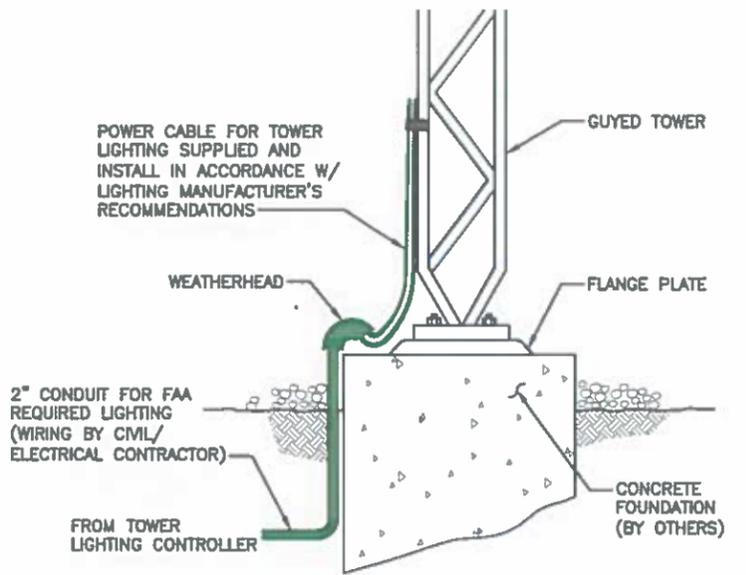
NOTES:

1. SEE SHEET E-1.0 FOR SIZES, LENGTHS & QUANTITY OF UTILITIES.
2. COMMUNICATION AND POWER CONDUITS MAY BE RUN IN SEPARATE TRENCHES. CONDUITS SHALL MAINTAIN 6" MINIMUM SEPARATION.
3. TRACE WIRE SHALL BE INSTALLED IN TRENCH WITH THE FIBER CONDUIT.



TRENCH DETAIL (INCOMING)

1



TOWER LIGHTING CONDUIT DETAIL

4

DETAIL NOT USED

2

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PRELIMINARY ISSUE

ENGINEERING LICENSE
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION #E-671

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	18096	CIVIL
CG CHRISTOPHER GIANNOTTI	28673	CIVIL
PJD PATRICK J. DAVIS	25067	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT



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SUBMITTALS

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	09/30/25	AWD	A
REISSUED PER CLIENT COMMENTS	11/04/25	AWD	B

MLA SITE NAME
 STC202-KS NEVADA HRR

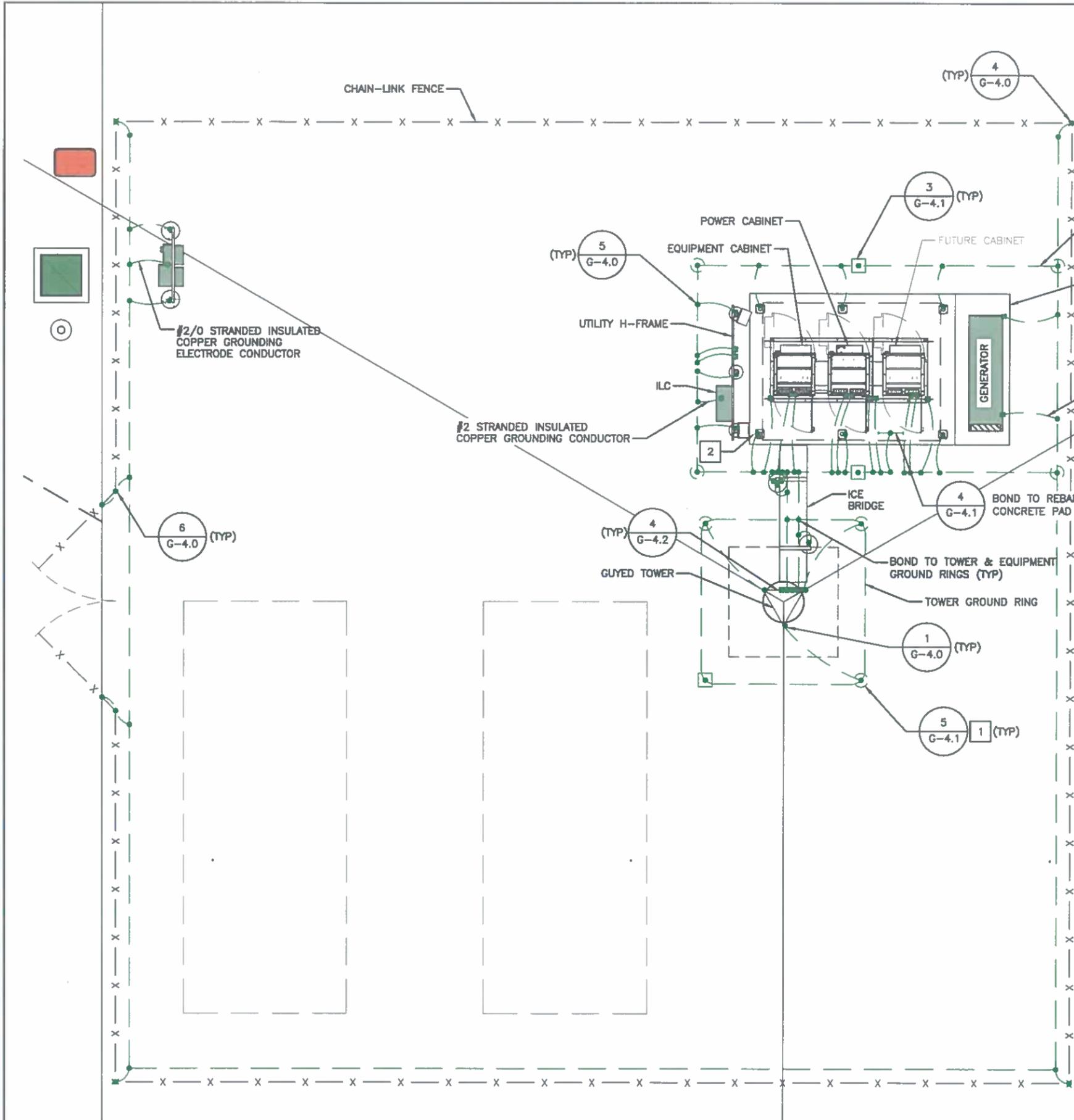
APPLICANT SITE NAME & SITE NUMBER
 MTPL NEVADA RELHR
 TBD

SITE ADDRESS
 3751 NEVADA ROAD
 OTTAWA, KS 66067

SHEET DESCRIPTION
 UTILITY DETAILS

SHEET #
 E-2.3

NEW VZW UTILITY EASEMENT
 ACCESSIBILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/HBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



KEYED NOTES:

- 1 ALL GROUND RODS SHALL BE SPACED AT 8'-0" (MIN) TO 15'-0" (MAX) AROUND PERIMETER OF EQUIPMENT.
- 2 MOUNT AND BOND GPS ANTENNA TO CANOPY POST.
- 3 FENCE POSTS WITHIN 6'-0" OF A GROUNDED STRUCTURE OR GROUNDED EQUIPMENT SHALL BE BONDED TO THE GROUND RING.

NOTE:

SEE SHEET GN-1.0 FOR LEGEND.

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PRELIMINARY ISSUE

ENGINEERING LICENSE
 STATE OF KANSAS
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ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CG CHRISTOPHER GIANNOTTI	25873	CIVIL
PJD PATRICK J. DAVIS	25967	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
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APPLICANT
verizon

PLANS PREPARED FOR

PLANS PREPARED BY

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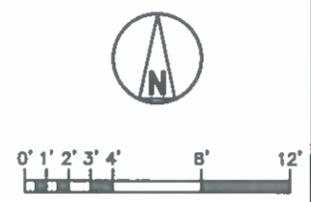
MLA SITE NAME
 STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
 MTPL NEVADA RELHR
 TBD

SITE ADDRESS
 3751 NEVADA ROAD
 OTTAWA, KS 66067

SHEET DESCRIPTION
 COMPOUND
 GROUNDING
 PLAN

SHEET #
 G-1.0



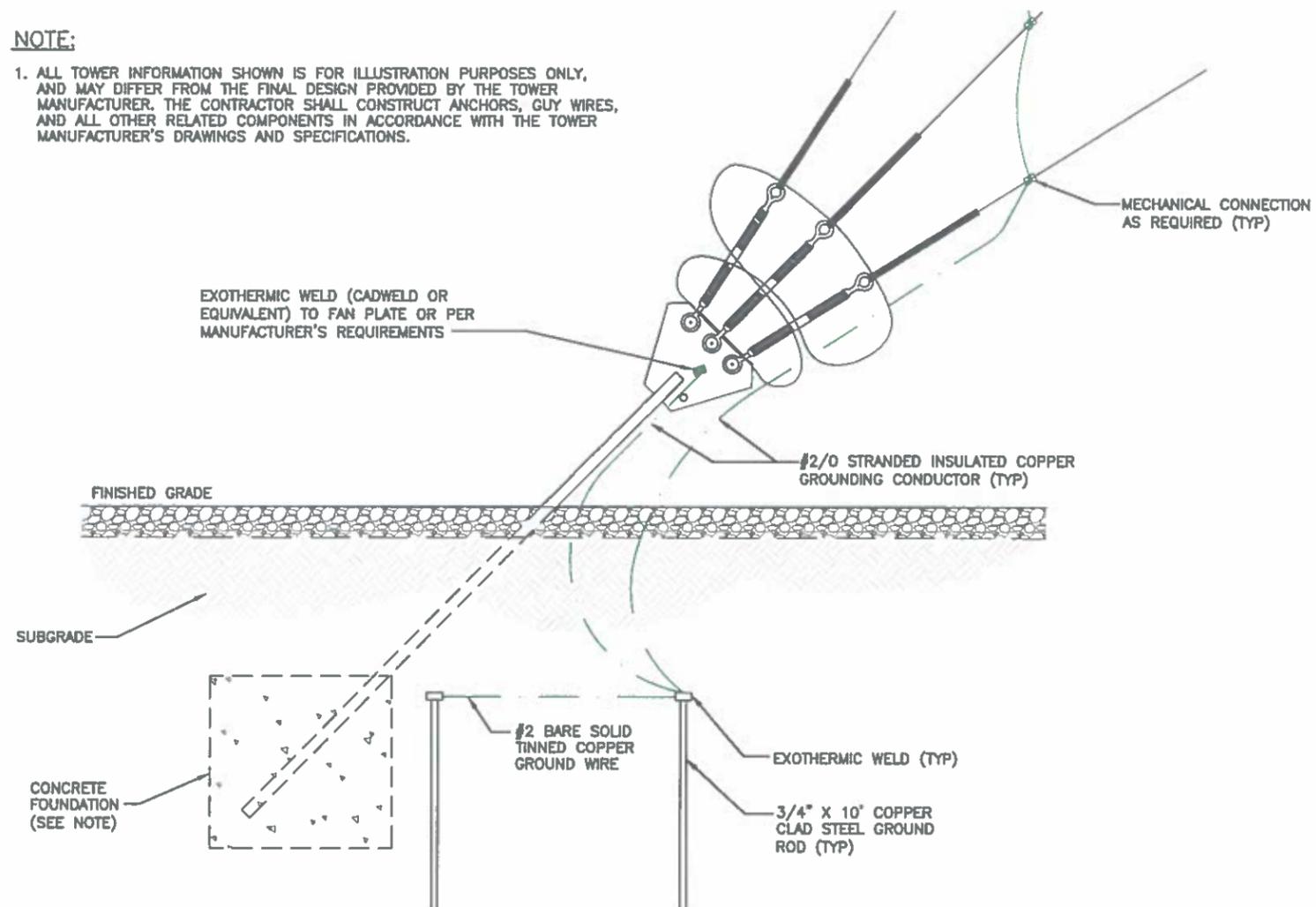
COMPOUND GROUNDING PLAN

1/4" = 1'-0" (22"x34")
 1/8" = 1'-0" (11"x17")

NEW/24V UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZV LANDSPACE
 PENETRATIONS
 RRR/BBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES

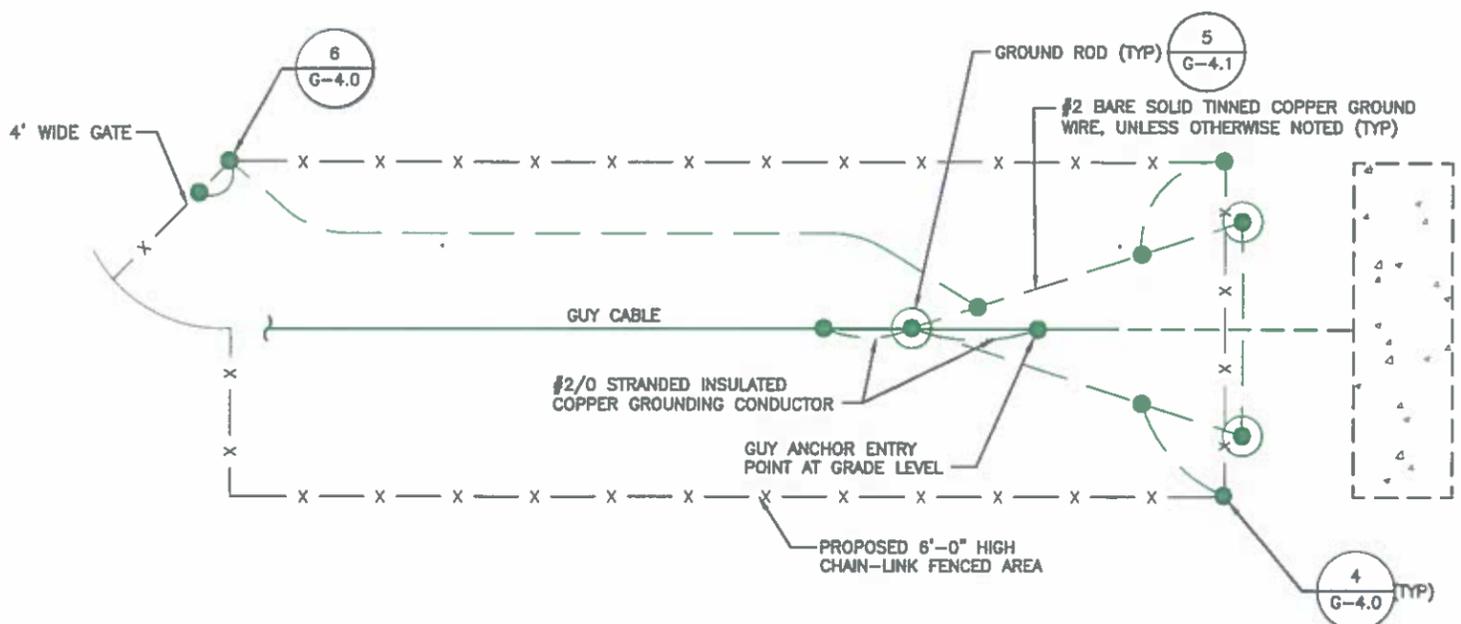
NOTE:

1. ALL TOWER INFORMATION SHOWN IS FOR ILLUSTRATION PURPOSES ONLY, AND MAY DIFFER FROM THE FINAL DESIGN PROVIDED BY THE TOWER MANUFACTURER. THE CONTRACTOR SHALL CONSTRUCT ANCHORS, GUY WIRES, AND ALL OTHER RELATED COMPONENTS IN ACCORDANCE WITH THE TOWER MANUFACTURER'S DRAWINGS AND SPECIFICATIONS.



GUY ANCHOR GROUNDING ELEVATION

2



GUY ANCHOR GROUNDING PLAN

4

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PRELIMINARY ISSUE

ENGINEERING LICENSE

STATE OF KANSAS

PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CS CHRISTOPHER GIANNOTTI	29873	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJV DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT



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APPLICANT SITE NAME & SITE NUMBER

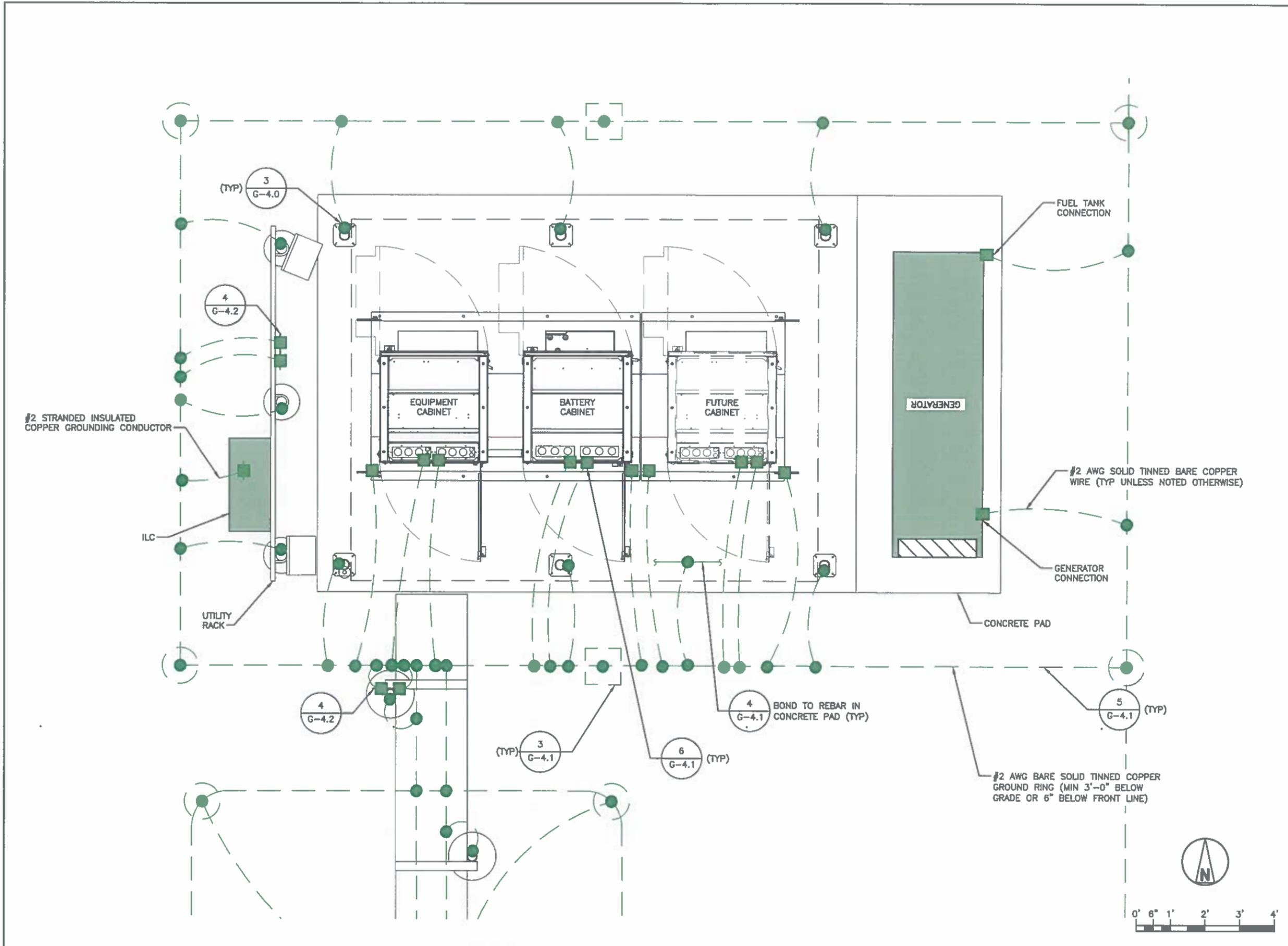
MTPL NEVADA RELHR
TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
GUY WIRE GROUNDING DETAIL	G-1.1

NEW VZW UTILITY EASEMENT
 ACCESS UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/HBSU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



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CD CHRISTOPHER GUANNOTTI	29873	CIVIL
PJD PATRICK J. DAVIS	25817	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
D/W DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT
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 TBD

SITE ADDRESS
 3751 NEVADA ROAD
 OTTAWA, KS 66067

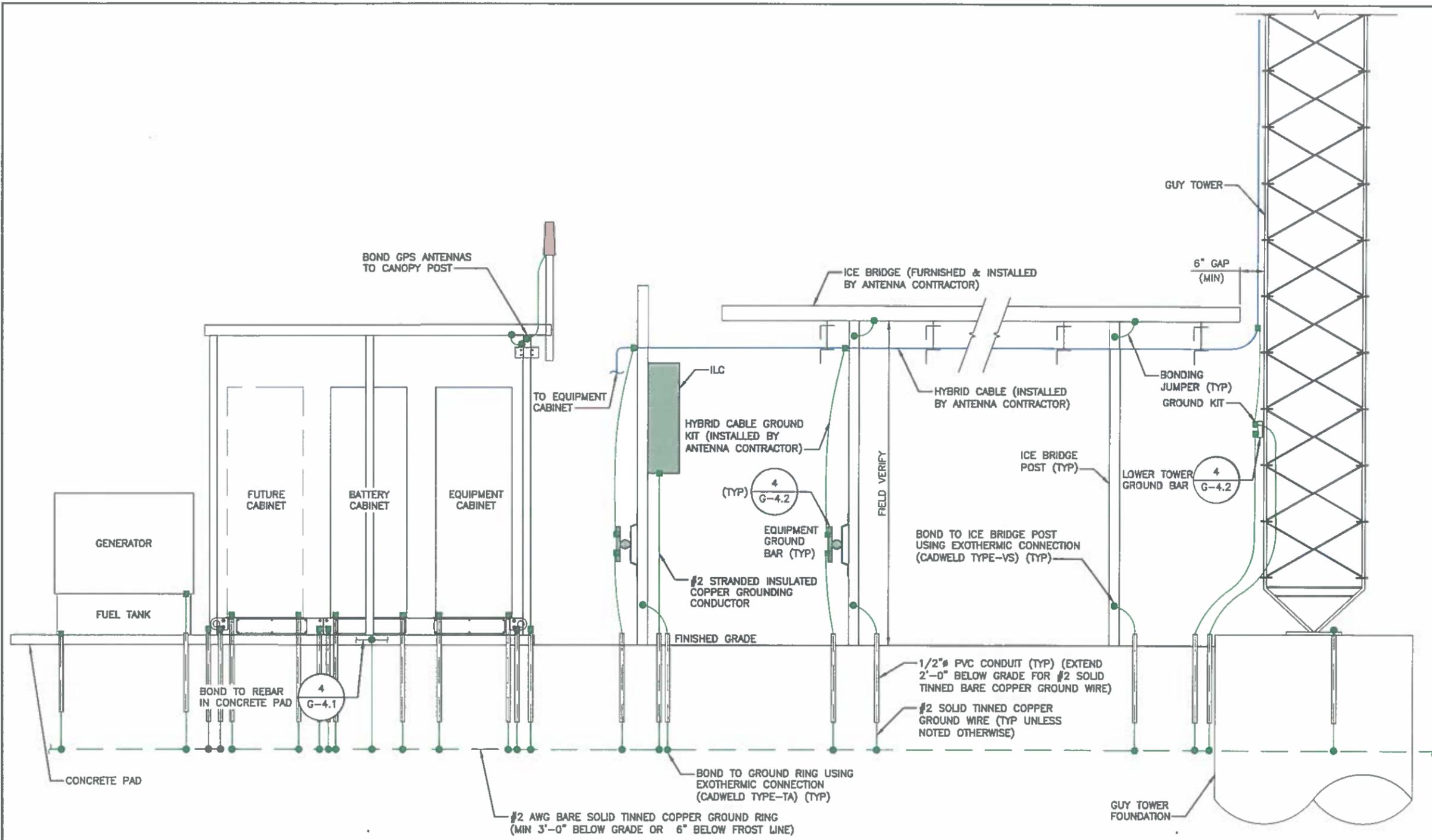
SHEET DESCRIPTION
 EQUIPMENT
 GROUNDING
 LAYOUT

SHEET #
 G-2.0

EQUIPMENT GROUNDING LAYOUT

3/4" = 1'-0" (22"x34")
 3/8" = 1'-0" (11"x17")

- NEW VZW UTILITY EASEMENT
- ACCESS UTILITY EASEMENT
- VZW LANDSPACE
- PERMEATIONS
- RR/BBU
- ANTENNAS
- FIBER
- POWER/ GROUNDING
- HYBRID & COAX CABLES



GROUNDING RISER DIAGRAM

STAMP

PRELIMINARY ISSUE

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STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

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DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

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MLA SITE NAME

STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR
TBD

SITE ADDRESS

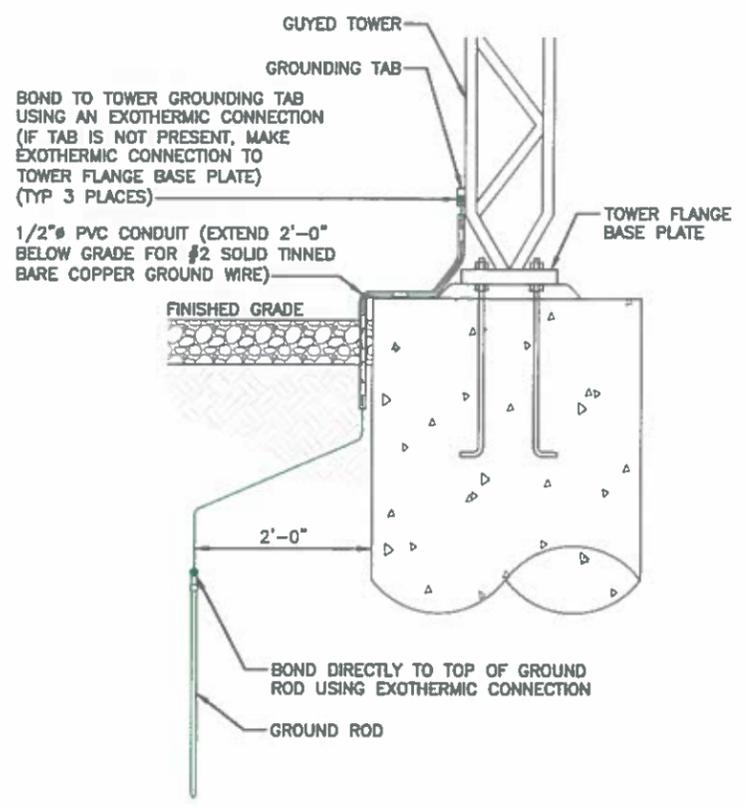
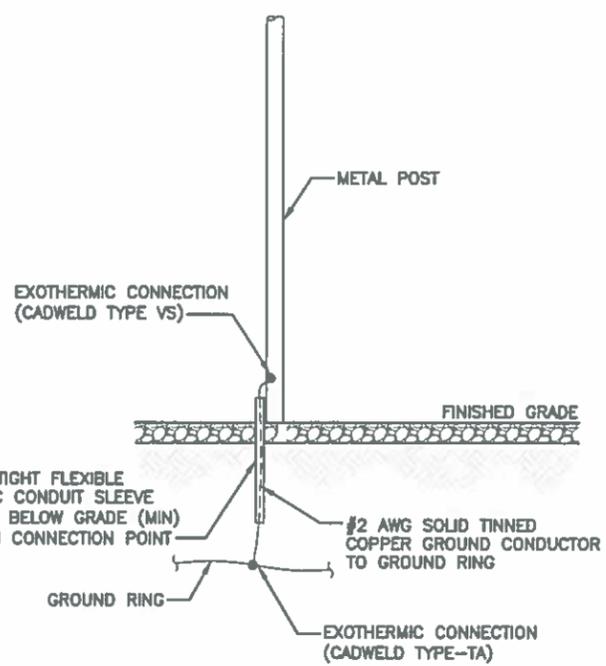
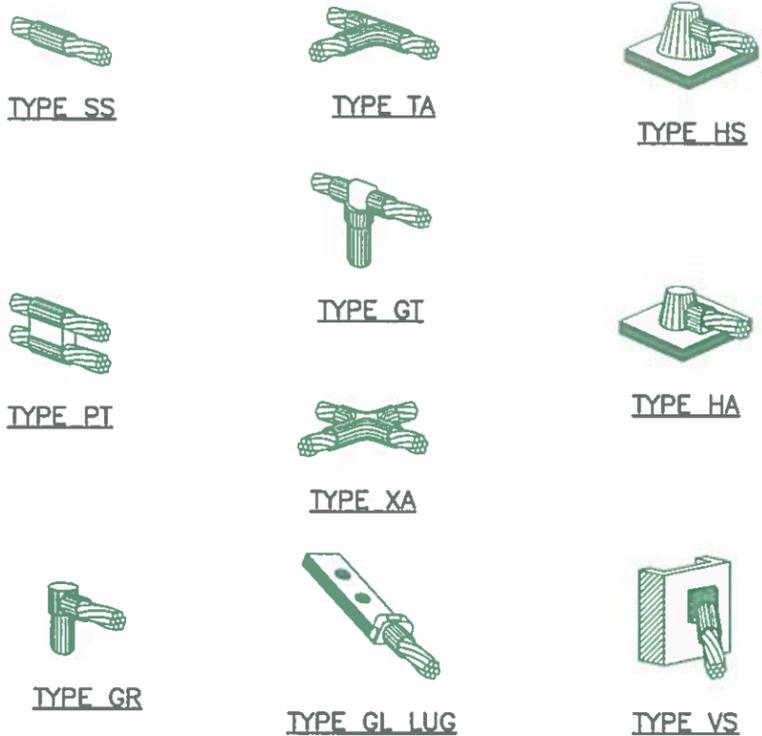
3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
GROUNDING RISER DIAGRAM	G-3.0

NEW VZW UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/HBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES

NOTE:

ALL TYPE CLASSIFICATIONS ARE CADWELD.



EXOTHERMIC CONNECTION DETAILS

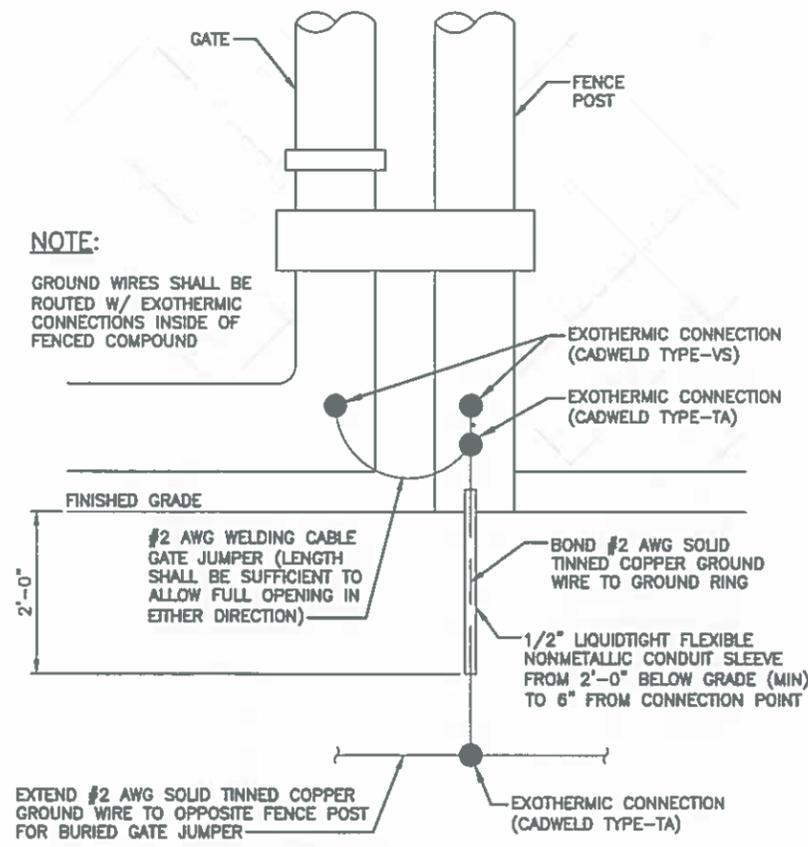
5

POST GROUNDING DETAIL

3

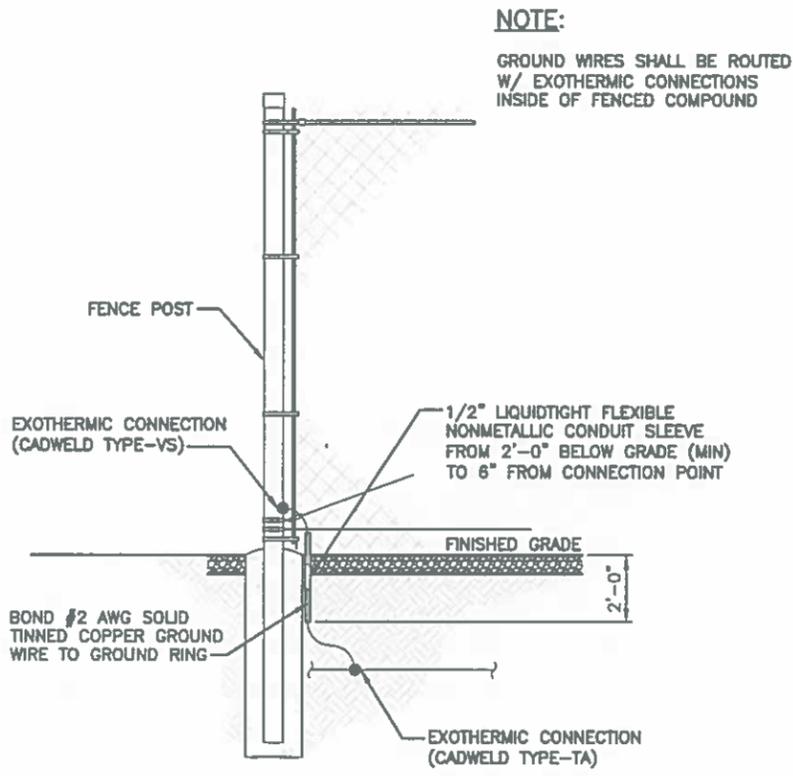
TOWER GROUNDING DETAIL

1



FENCE GATE GROUNDING DETAIL

6



FENCE POST GROUNDING DETAIL

4

NOTE:
 GROUND WIRES SHALL BE ROUTED W/ EXOTHERMIC CONNECTIONS INSIDE OF FENCED COMPOUND

DETAIL NOT USED

2

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PRELIMINARY ISSUE

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 PE CERTIFICATE OF AUTHORIZATION # E-671

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
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CG CHRISTOPHER GUANNOTTI	28873	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
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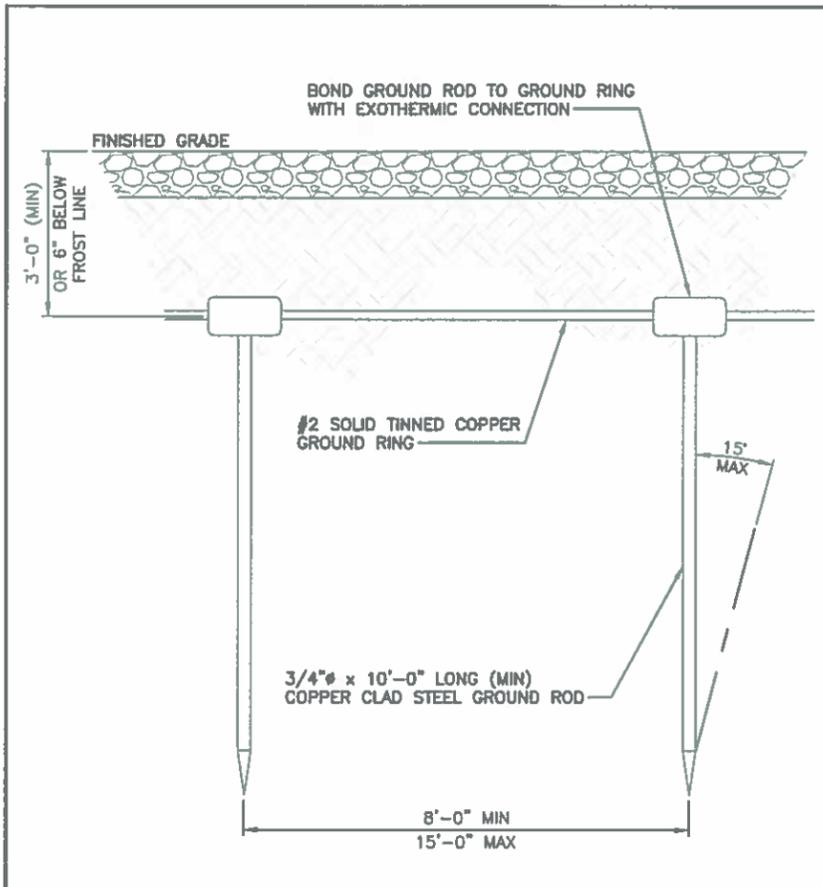
MLA SITE NAME
 STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
 MTPLE NEVADA RELHR
 TBD

SITE ADDRESS
 3751 NEVADA ROAD
 OTTAWA, KS 66067

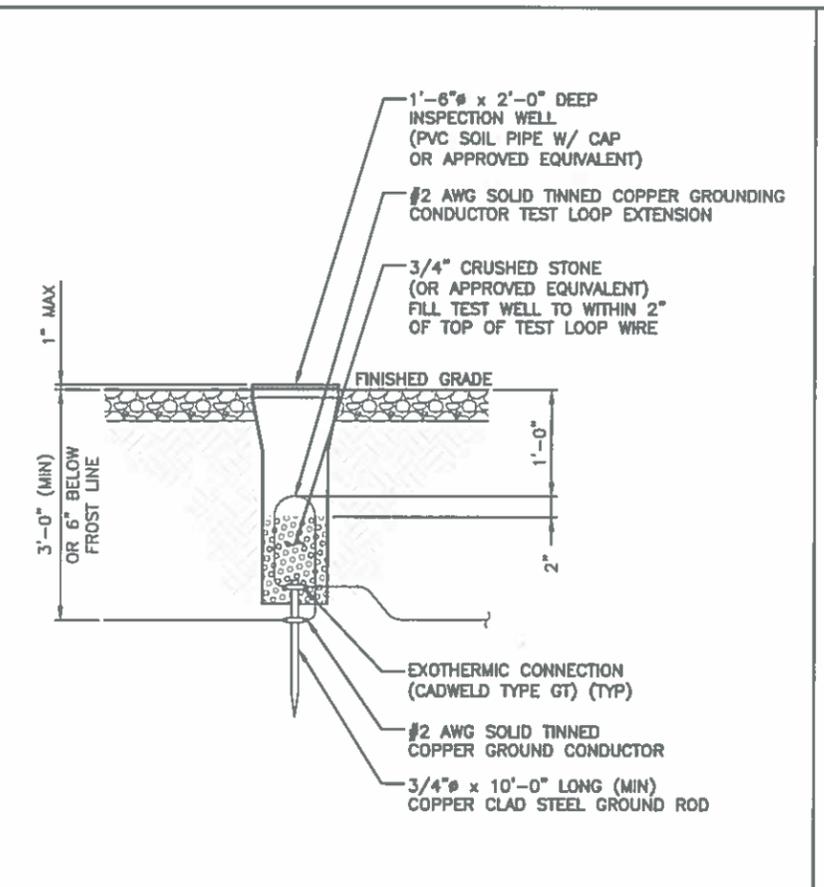
SHEET DESCRIPTION	SHEET #
GROUNDING DETAILS (1 OF 3)	G-4.0

NEW VZW UTILITY EASEMENT
 ACCESSIBILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RRHBBU
 ANTENNAS
 FIBER
 POWER & GROUNDING
 HYBRID & COAX CABLES



GROUND RING DETAIL

5



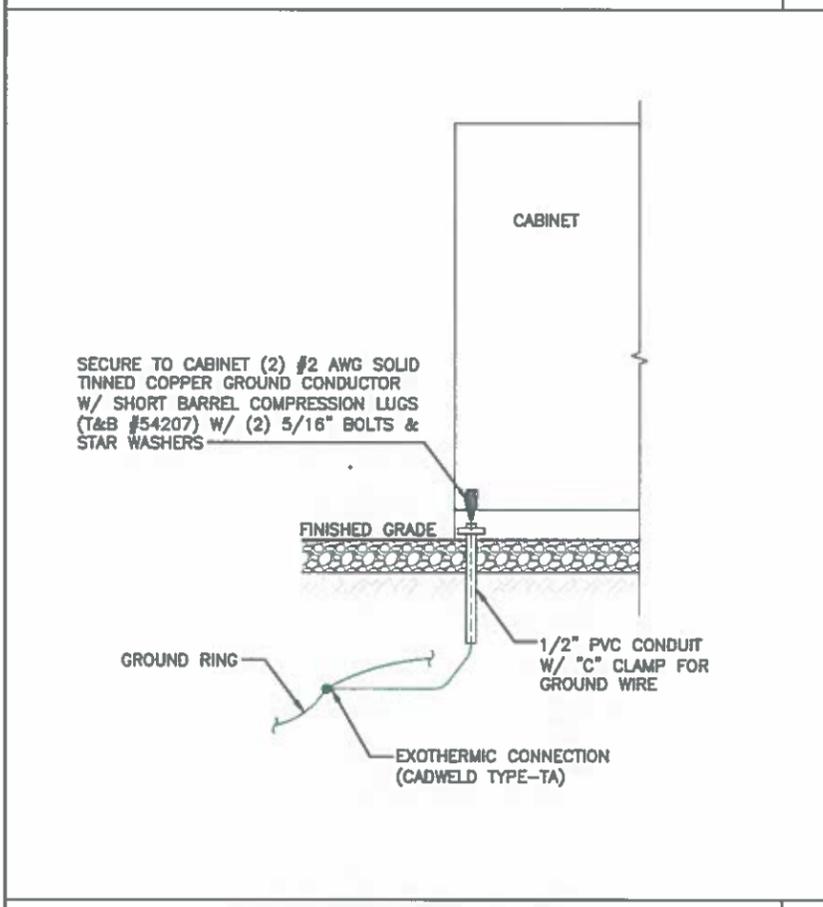
INSPECTION/TEST WELL DETAIL

3



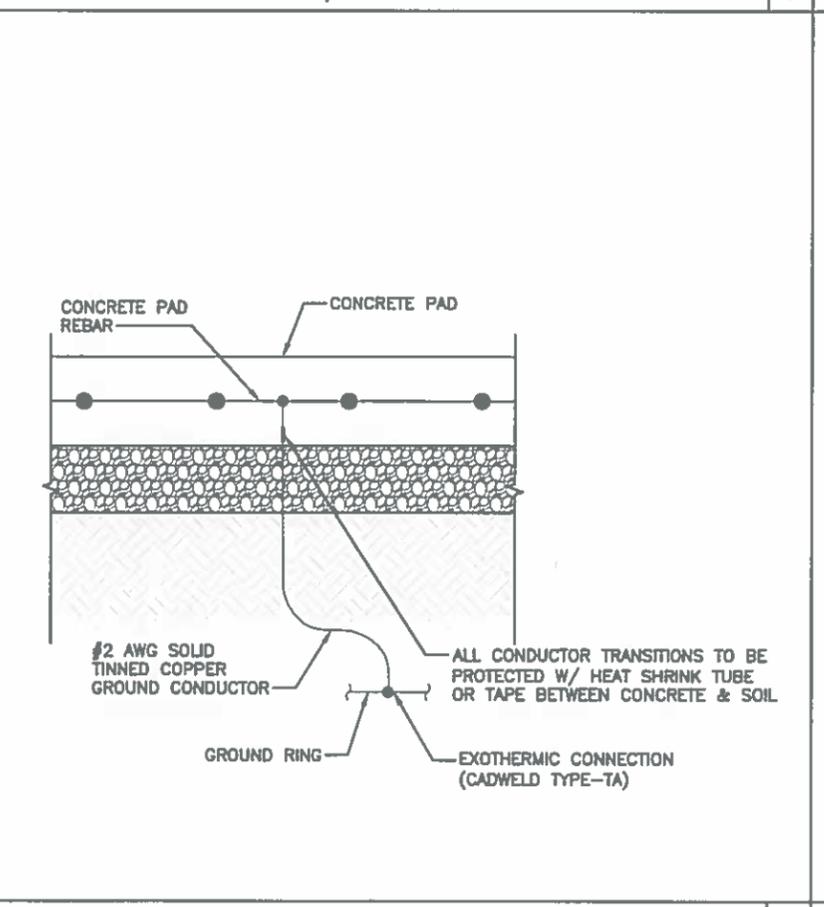
DETAIL NOT USED

1



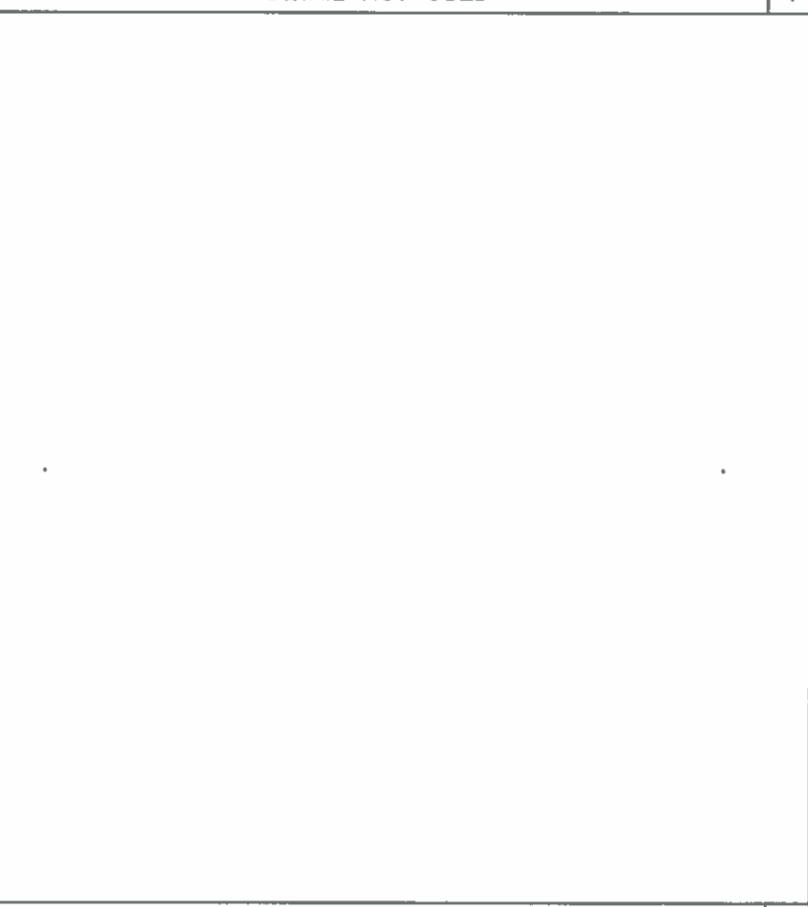
CABINET GROUNDING DETAIL

6



CONCRETE PAD GROUNDING DETAIL

4



DETAIL NOT USED

2

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PRELIMINARY ISSUE

ENGINEERING LICENSE
 STATE OF KANSAS
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ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
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CO CHRISTOPHER GIANNOTTI	25873	CIVIL
PJD PATRICK J. DAVIS	25887	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
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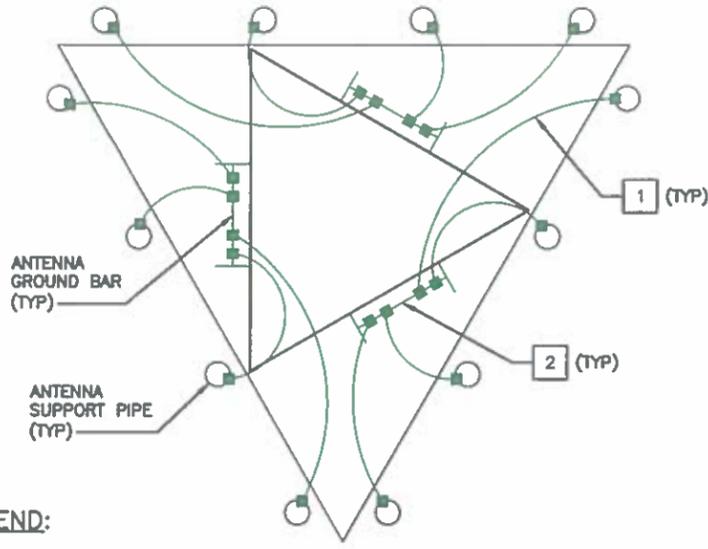
MLA SITE NAME
 STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
 MTPL NEVADA RELHR
 TBD

SITE ADDRESS
 3751 NEVADA ROAD
 OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
GROUNDING DETAILS (2 OF 3)	G-4.1

NEW VZW UTILITY EASEMENT
 ACCESS UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RRHBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



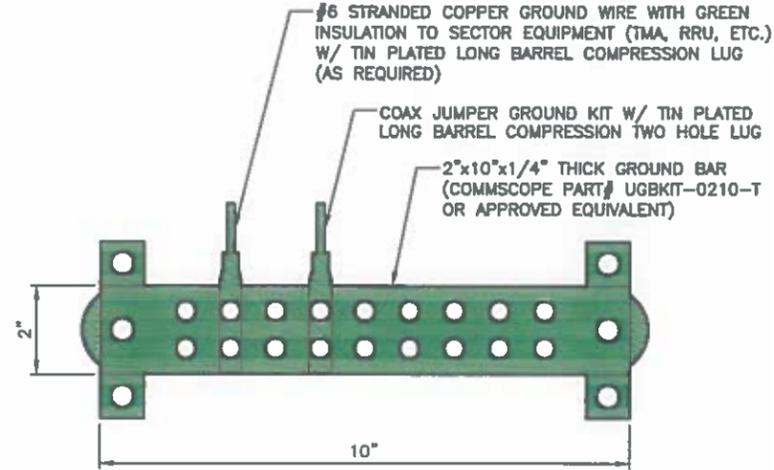
LEGEND:
 ■ MECHANICAL COMPRESSION CONNECTION

KEYED NOTES:

- 1 ANTENNA PIPE GROUND KIT WIRES.
- 2 MOUNT TOWER GROUND BAR DIRECTLY TO TOWER WITHOUT ISOLATION BUSHINGS. CONTRACTOR TO REMOVE TOWER GALVANIZED COATING WHERE GROUND BAR COMES INTO CONTACT WITH TOWER. FURNISH AND INSTALL COLD GALVANIZING TO TOWER AND GROUND BAR CLAMPS AFTER INSTALLATION.

ANTENNA GROUNDING DIAGRAM

5



NOTES:

- 1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL INCLUDING BELLEVILLE WASHERS, COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
- 2. STEEL BONDING ONLY; INSERT A TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
- 3. USE A THIN COAT OF ANTI-CORROSION GREASE AT THESE CONNECTIONS.
- 4. INSTALL WITHIN 12" OF END OF COAX TO COAX JUMPER CONNECTION.
- 5. DIMPLE OR MECHANICAL CRIMP LUGS WILL NOT BE PERMITTED.

ANTENNA GROUND BAR DETAIL

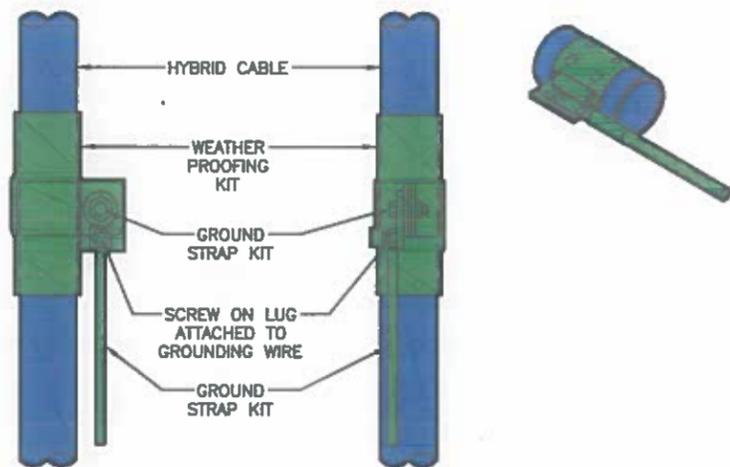
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DETAIL NOT USED

1

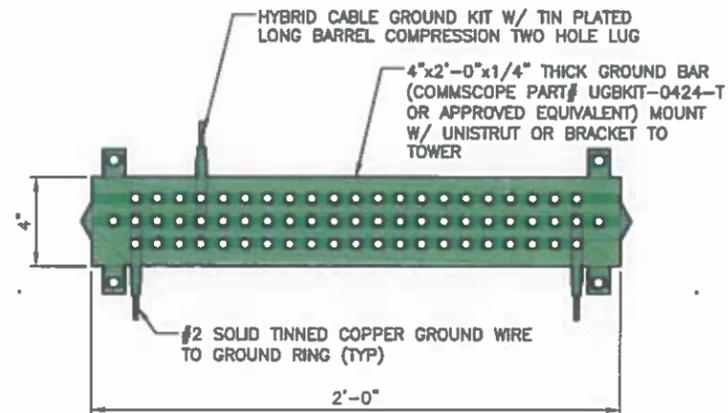
NOTES:

- 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- 2. THIS DETAIL IS TYPICAL FOR EACH CABLE WHERE IT IS SPECIFIED TO BE GROUNDED.
- 3. CABLE TO BE GROUNDED AT ANTENNA LEVEL AND PRIOR TO ENTERING EQUIPMENT CABINET.
- 4. CABLE ALSO TO BE GROUNDED TO GROUND BAR AT TOWER BASE IF APPLICABLE.
- 5. USE ONLY TIN PLATED GROUNDING LUGS.



COAX/HYBRID CABLE GROUND KIT DETAIL

6



NOTES:

- 1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL INCLUDING BELLEVILLE WASHERS, COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
- 2. STEEL BONDING ONLY; INSERT A TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
- 3. USE A THIN COAT OF ANTI-CORROSION GREASE AT THESE CONNECTIONS.
- 4. INSTALL WITHIN 12" OF END OF COAX TO COAX JUMPER CONNECTION.
- 5. DIMPLE OR MECHANICAL CRIMP LUGS WILL NOT BE PERMITTED.

TOWER/TYPICAL GROUND BAR DETAIL

4

DETAIL NOT USED

2

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PRELIMINARY ISSUE

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MLA SITE NAME

STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR
TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
GROUNDING DETAILS (3 OF 3)	G-4.2

GENERAL NOTES

1. THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK USING THEIR BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
2. THE CONTRACTOR SHALL VISIT THE JOB SITE TO REVIEW THE SCOPE OF WORK AND EXISTING CONDITIONS INCLUDING, BUT NOT LIMITED TO, ELECTRICAL SERVICE AND OVERALL COORDINATION.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING THEIR BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS, ETC. SHALL BE REPORTED TO VERIZON WIRELESS BEFORE PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION, STRUCTURE, OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF VERIZON WIRELESS, AT THE EXPENSE OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL SAFEGUARD THE OWNER'S PROPERTY DURING CONSTRUCTION AND SHALL REPLACE ANY DAMAGED PROPERTY OF THE OWNER TO ORIGINAL CONDITION.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETE.
8. ALL CONSTRUCTION WORK SHALL CONFORM TO THE CODES LISTED IN THE CODE SUMMARY AND ALL APPLICABLE LOCAL REGULATIONS, ORDINANCES, STATUTES & CODES.
9. VERIZON WIRELESS SHALL OBTAIN THE CONSTRUCTION PERMIT. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO THE OWNER.
10. CITY APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF JOB SUPERINTENDENT.
11. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A:10-B:C WITHIN 75'-0" OF TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILD OUT AREA DURING CONSTRUCTION.
12. ANY CONNECTION FEES FOR ELECTRICAL SERVICE SHALL BE PAID BY THE CONTRACTOR.
13. CABLING NOTE: FOLLOW HYBRIFLEX MANUFACTURER'S RECOMMENDATIONS FOR HOISTING CABLE. VERIZON WIRELESS HAS REPORTED THAT HOIST GRIPS MUST BE USED EVERY 200'-0" OF CABLE.

DESCRIPTION OF PROPOSED SITE USE:

THE CONSTRUCTION OF THIS COMMUNICATION TOWER SITE IS FOR THE TRANSMISSION AND RECEPTION OF CALLS FOR A NEW WIRELESS TELEPHONE SYSTEM. NO FLAMMABLE PRODUCTS OR CHEMICALS WILL BE USED OR STORED INSIDE THE SHELTER.

FOUNDATION GENERAL NOTES:

1. THE SITE SHALL BE STRIPPED OF ALL VEGETATION PRIOR TO FILL OR CONSTRUCTION OF THE FOUNDATION PAD.
2. ALL FILL SAND SHALL BE 0-15 P.I. WITH A COMPACTION TEST RUN ON EACH 6" LIFT - COMPACTED TO 90% MODIFIED PROCTOR.
3. ANY SOFT AREAS (TREE STUMP HOLES, ETC.) SHALL BE CUT OUT AND RECOMPACTED TO SAID PROCTOR.
4. ALL FOOTINGS TO BEAR ON A MINIMUM NET ALLOWABLE SOIL BEARING CAPACITY OF 1,500 PSF TO BE VERIFIED IN FIELD.
5. THE CONTRACTOR SHALL KEEP THE SITE SO IT WILL HAVE POSITIVE DRAINAGE AT ALL TIMES.
6. ALL EXCAVATIONS SHALL BE FREE OF WATER BEFORE POURING CONCRETE.

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 AND ACI 301, LATEST EDITION. THESE DOCUMENTS SHALL BE AVAILABLE IN THE FIELD OFFICE.
2. EXCEPT WHERE OTHERWISE INDICATED, CONCRETE SHALL BE NORMAL WEIGHT AND WITH MINIMUM 28-DAY COMPRESSIVE STRENGTHS OF F_c=4000 PSI. ALL EXTERIOR EXPOSED CONCRETE SHALL BE AIR ENTRAINED WITH 6% AIR CONTENT.
3. MAXIMUM SLUMP SHALL BE 4".
4. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
5. ALL WIRE AND BARS SHALL BE SECURED PROPERLY BEFORE POURING CONCRETE.
6. EDGE TROWEL ALL EXPOSED CONCRETE EDGES.

NOTE:

LOCALIZED AREAS OF SOFT OR LOOSE MATERIALS MAY BE ENCOUNTERED AT THE PROPOSED BEARING ELEVATION. THE SOILS MAY REQUIRE COMPACTION USING A PLATE COMPACTOR IN THE FOOTING TRENCH IF FIELD CONDITIONS INDICATE LOOSE GRANULAR SOILS. THE SOILS MAY REQUIRE REMOVAL AND REPLACEMENT WITH AN APPROVED ENGINEERED FILL. FOUNDATION DEPTH AND OVER DIG REQUIREMENTS SHALL BE VERIFIED WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND INCLUDED IN THE BID BEFORE CONSTRUCTION. THE EVALUATION OF THE SUB GRADE AND SELECTION OF FILL MATERIALS SHALL BE MONITORED AND TESTED BY A QUALIFIED REPRESENTATIVE OF THE SOILS ENGINEER.

CODE SUMMARY

CODE CLASSIFICATION		U
TYPE OF CONSTRUCTION:		V-B
APPLICABLE CODES		
INTERNATIONAL BUILDING CODE		
NATIONAL ELECTRICAL CODE (NFPA 70)		
UNIFORM PLUMBING CODE		
INTERNATIONAL FUEL GAS CODE		

COLOR LEGEND

HYBRID & COAX CABLES	
POWER/GROUNDING	
FIBER	
ANTENNAS	
RRH/BBU	
PENETRATIONS	
VZW LANDSPACE	
ACCESS/UTILITY EASEMENT	
NEW VZW UTILITY EASEMENT	

ABBREVIATIONS

AGL	ABOVE GRADE LINE	GND	GROUND
AMP	AMPERE	HT	HEIGHT
ARCH	ARCHITECT	LF	LINEAL FOOT
BLDG	BUILDING	MIN/MAX	MINIMUM/MAXIMUM
CL	CENTERLINE	MISC	MISCELLANEOUS
CONC	CONCRETE	NTS	NOT TO SCALE
CONST	CONSTRUCTION	O.C.	ON CENTER
CONTR	CONTRACTOR	PL	PLATE
DET	DETAIL	REQ'D	REQUIRED
DIA (#)	DIAMETER	SF	SQUARE FOOT
DIAG	DIAGONAL	SHT	SHEET
DIM	DIMENSION	SIM	SIMILAR
DN	DOWN	SPECS	SPECIFICATIONS
DWG	DRAWING	SSC, INC.	SELECTIVE SITE CONSULTANTS, INC.
EA	EACH	STD	STANDARD
ELEC	ELECTRICAL	STL	STEEL
ELEV	ELEVATOR, ELEVATION	STRUCT	STRUCTURAL
EQ	EQUAL	SW	SWITCH
EQUIP	EQUIPMENT	T.O.C.	TOP OF CONCRETE
EXIST	EXISTING	T.C.	TOP OF CURB
FND	FOUNDATION	T.O.P.	TOP OF PAVING
FTG	FOOTING	T.O.S.	TOP OF STEEL
GA	GAUGE	TYP	TYPICAL
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE

STAMP



ENGINEERING LICENSE			
STATE OF KANSAS			
PE CERTIFICATE OF AUTHORIZATION # E-571			
ENGINEER	PE#	DISCIPLINE	
KMV KEVIN M. VANMAELE	22105	CIVIL	
REJ ROBERT E. JENSEN	16096	CIVIL	
CG CHRISTOPHER GUANNOTTI	28673	CIVIL	
PJD PATRICK J. DAVIS	45087	CIVIL	
SDK SHELTON D. KEISLING	13854	ELECTRICAL	
DJW DAVID J. WALDRON	31220	ELECTRICAL	
TMS TERRANCE M. SUPER	8250	ELECTRICAL	



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SUBMITTALS				
DESCRIPTION	DATE	BY	REV	
ISSUED FOR REVIEW	09/30/25	AWD	A	
REISSUED PER CLIENT COMMENTS	11/04/25	AWD	B	

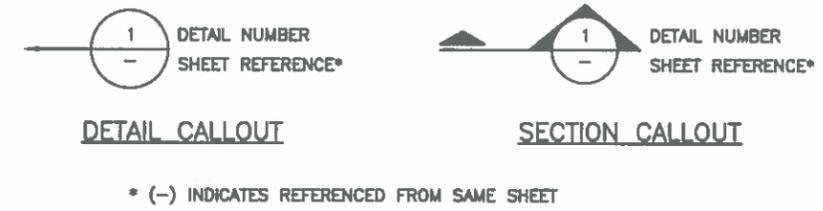
MLA SITE NAME
STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
MTPL NEVADA RELHR
TBD

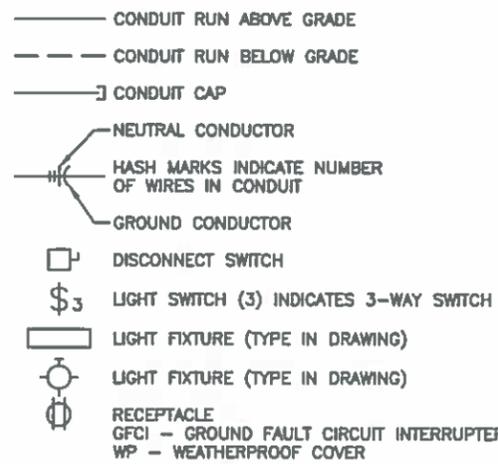
SITE ADDRESS
3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
GENERAL NOTES	GN-1.0

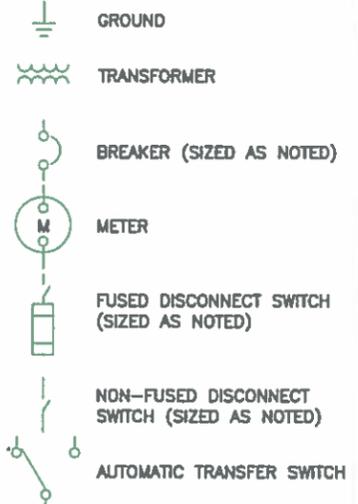
SYMBOLS



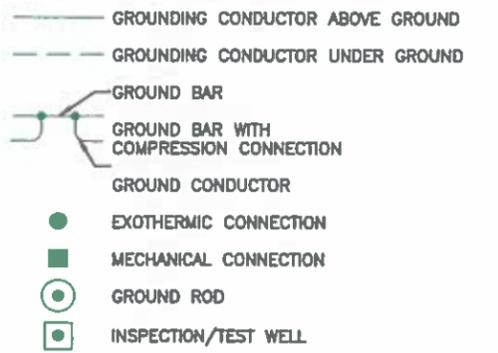
PLAN SYMBOLS



SCHEMATIC SYMBOLS



GROUNDING PLAN SYMBOLS



GENERAL REQUIREMENTS**PART 1: GENERAL****1.1 INTENT:**

- A. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION. PLANS ARE NOT TO BE SCALED.
- B. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY, HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH.
- C. THE INTENTION OF DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
- D. CONFLICTS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIALS OR DOING ANY WORK. NO COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE ON THE DOCUMENTS. ANY DISCREPANCY SHALL BE REPORTED TO THE OWNER OR THEIR AGENT FOR CONSIDERATION.

1.2 LICENSING REQUIREMENTS:

- A. THE CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT AND MAINTAINING ALL APPLICABLE LICENSES AND BONDS.

1.3 STORAGE:

- A. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION THAT DOES NOT OBSTRUCT THE FLOW OF OTHER WORK. ANY STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

1.4 CLEAN UP:

- A. THE CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH AT ALL TIMES.

1.5 QUALITY ASSURANCE:

- A. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

PART 2: PRODUCTS – NOT APPLICABLE TO THIS SECTION

PART 3: EXECUTION – NOT APPLICABLE TO THIS SECTION

END OF SECTION

COMMUNICATIONS/ANTENNA'S**PART 1: GENERAL****1.1 WORK INCLUDED:**

- A. ANTENNA AND FEEDLINE CABLES ARE FURNISHED BY OWNER UNDER SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND PROPERTY FROM HAZARDOUS EXPOSURE TO OVERHEAD DANGER.
- B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND OWNER SPECIFICATIONS.
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- D. INSTALL FURNISHED GALVANIZED STEEL WAVEGUIDE LADDER AS INDICATED ON DRAWINGS.
- E. THE CONTRACTOR SHALL PROVIDE FREQUENCY DOMAIN REFLECTOMETER (FDR) TEST RESULTS TO THE CONSTRUCTION MANAGER AND OWNER WITHIN ONE WEEK OF COMPLETION.
- F. INSTALL FEEDLINE CABLES AND TERMINATORS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL FEEDLINE CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
- G. ANTENNA AND FEEDLINE CABLE GROUNDING:
 1. ALL FEEDLINE CABLE GROUNDING CONNECTIONS ARE TO BE WEATHER SEALED WITH ANDREW CONNECTOR/SPLICE WEATHERPROOFING KITS OR APPROVED EQUAL.
 2. ALL FEEDLINE CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF FEEDLINE CABLE (NOT WITHIN BENDS)

1.2 RELATED WORK:

- A. FURNISH THE FOLLOWING WORK AS SPECIFIED UNDER CONSTRUCTION DOCUMENTS, BUT COORDINATE WITH OTHER TRADES PRIOR TO BID:
 1. FLASHING OF OPENING INTO OUTSIDE WALLS.
 2. SEAL AND CAULK ALL OPENINGS.
 3. PAINTING.
 4. CUTTING AND PATCHING.

1.3 REQUIREMENTS OF REGULATOR AGENCIES:

- A. FURNISH UL LISTED EQUIPMENT WHERE SUCH LABEL IS AVAILABLE, INSTALL IN CONFORMANCE WITH UL STANDARDS WHERE APPLICABLE.
- B. INSTALL ANTENNA, ANTENNA CABLES, AND GROUNDING SYSTEM IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS IN EFFECT AT PROJECT LOCATION AND RECOMMENDATIONS OF STATE AND LOCAL BUILDING CODES, AND ANY SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
 1. TIA-222 (TELECOMMUNICATIONS INDUSTRY ASSOCIATION) – STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
 2. FAA (FEDERAL AVIATION ADMINISTRATION ADVISORY) – CIRCULAR AC 70/7460-1K, OBSTRUCTION MARKING AND LIGHTING.
 3. FCC (FEDERAL COMMUNICATIONS COMMISSION) – RULES AND REGULATIONS OBSTRUCTION MARKING AND LIGHTING SPECIFICATIONS FOR ANTENNA STRUCTURES AND HIGH INTENSITY OBSTRUCTION LIGHTING SPECIFICATIONS FOR ANTENNA STRUCTURES.
 4. AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) – SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
 5. NEC (NATIONAL ELECTRICAL CODE) – FOR TOWER LIGHTING KITS.
 6. UL (UNDERWRITERS LABORATORIES) – APPROVED ELECTRICAL PRODUCTS.
 7. IN ALL CASES, THE FAA RULES AND THE FCC RULES ARE APPLICABLE AND IN THE EVENT OF CONFLICT, SUPERSEDE ANY OTHER STANDARDS OR SPECIFICATIONS.
 8. LIFE SAFETY CODE NFPA, LATEST EDITION.

PART 2: PRODUCTS – NOT APPLICABLE TO THIS SECTION

PART 3: EXECUTION – NOT APPLICABLE TO THIS SECTION

END OF SECTION

SITE CLEARING/EROSION CONTROL**PART 1: GENERAL****1.1 SUMMARY:**

- A. PROVIDE SITE-CLEARING AS REQUIRED TO COMPLETE WORK AS SHOWN ON CONTRACT DOCUMENTS INCLUDING CLEARING, GRUBBING, STRIPPING, EROSION AND SILTATION CONTROL, AND PROTECTION OF LANDSCAPE MATERIALS DESIGNATED TO BE PROTECTED DURING CONSTRUCTION.

1.2 QUALITY ASSURANCE:

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS.
- B. SITE PROTECTION: PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT
- C. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.

PART 2: PRODUCTS**2.1 MATERIALS:**

- A. TREE PROTECTION, EROSION CONTROL, SILTATION CONTROL, AND DUST CONTROL MATERIALS SUITABLE FOR SITE CONDITIONS.

PART 3: EXECUTION**3.1 SITE CLEARING OPERATIONS:**

- A. PROTECTION OF EXISTING TREES, VEGETATION, LANDSCAPING, AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
- B. TRIMMING OF EXISTING TREES AND VEGETATION AS RECOMMENDED BY ARBORIST FOR PROTECTION DURING CONSTRUCTION ACTIVITIES.
- C. CLEARING AND GRUBBING OF STUMPS AND VEGETATION, AND REMOVAL AND DISPOSAL OF DEBRIS, RUBBISH, DESIGNATED TREES, AND SITE IMPROVEMENTS.
- D. TOPSOIL STRIPPING AND STOCKPILING.
- E. TEMPORARY EROSION CONTROL, SILTATION CONTROL, AND DUST CONTROL.
- F. TEMPORARY PROTECTION OF ADJACENT PROPERTY, STRUCTURES, BENCHMARKS, AND MONUMENTS.
- G. WATERING OF TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.
- H. REMOVAL AND LEGAL DISPOSAL OF CLEARED MATERIALS.
- I. MAINTAIN ALL EXISTING FENCING AND GATES TO MAINTAIN A SECURE SITE AT ALL TIMES.
- J. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT LIFE AND PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.

3.2 CLEARING:

- A. PREVENT DAMAGE TO EXISTING IMPROVEMENTS INDICATED TO REMAIN, INCLUDING ON AND OFF SITE. PROTECT EXISTING TREES AND VEGETATION INDICATED TO REMAIN. DO NOT STOCKPILE MATERIALS AND RESTRICT TRAFFIC WITHIN DRIP LINE OF EXISTING TREES TO REMAIN OR THAT INTERFERE WITH ACCESS TO SITE. PROVIDE AND MAINTAIN TEMPORARY GUARDS TO ENCIRCLE TREES OR GROUPS OF TREES TO REMAIN; OBTAIN APPROVAL BEFORE BEGINNING WORK.
- B. WATER VEGETATION AS REQUIRED TO MAINTAIN HEALTH. COVER TEMPORARILY EXPOSED ROOTS WITH WET BURLAP AND BACKFILL AS SOON AS POSSIBLE. COAT CUT PLANT SURFACES WITH APPROVED EMULSIFIED ASPHALT PLANT COATING.
- C. REPAIR OR REPLACE VEGETATION DESIGNATED FOR REUSE, WHICH HAS BEEN DAMAGED. REMOVE HEAVY GROWTHS OF GRASS BEFORE STRIPPING. STOCKPILE SATISFACTORY TOPSOIL CONTAINING NO LARGE STONES, FOREIGN MATTER AND WEEDS ON SITE FOR REUSE.
- D. COMPLETELY REMOVE ALL IMPROVEMENTS, STUMPS AND DEBRIS EXCEPT FOR THOSE INDICATED TO REMAIN. REMOVE BELOW GRADE IMPROVEMENTS AT LEAST 12" BELOW FINISH GRADE SO AS NOT TO INTERFERE WITH NEW CONSTRUCTION. REMOVE ABANDONED MECHANICAL AND ELECTRICAL WORK AS REQUIRED.
- E. PREVENT EROSION AND SILTATION OF STREETS, CATCH BASINS AND PIPING. CONTROL WINDBLOWN DUST. REMOVE WASTE MATERIALS AND UNSUITABLE SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL AND COMPACT AS REQUIRED.

3.3 EROSION CONTROL:

- A. PROVIDE EROSION AND SILTATION CONTROL AS REQUIRED TO MEET ALL LOCAL AND STATE REQUIREMENTS.

END OF SECTION

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE			
STATE OF KANSAS			
PE CERTIFICATE OF AUTHORIZATION # E-671			
ENGINEER	PE#	DISCIPLINE	
KMV KEVIN M. VANMAELE	22105	CIVIL	
REJ ROBERT E. JENSEN	18098	CIVIL	
CC CHRISTOPHER GUANNOTTI	28673	CIVIL	
PJD PATRICK J. DAVIS	25087	CIVIL	
SDK SHELTON D. KEISLING	13854	ELECTRICAL	
DJW DAVID J. WALDRON	31220	ELECTRICAL	
TMS TERRANCE M. SUPER	9250	ELECTRICAL	

APPLICANT

verizon

PLANS PREPARED FOR:



PLANS PREPARED BY:



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SUBMITTALS				
DESCRIPTION	DATE	BY	REV	
ISSUED FOR REVIEW	09/30/25	AWD	A	
REISSUED PER CLIENT COMMENTS	11/04/25	AWD	B	

MLA SITE NAME

STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR
TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION

SPECIFICATIONS
(1 OF 7)

SHEET #

SP-1.0

CAST-IN-PLACE-CONCRETE

PART 1: GENERAL

1.1 SUMMARY:

- A. FURNISH AND INSTALL ALL CAST-IN-PLACE CONCRETE, REINFORCING AND ACCESSORIES, AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.

1.2 SUBMITTALS:

- A. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.
- B. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS INDICATING MATERIAL CHARACTERISTICS, DETAILS OF CONSTRUCTION, CONNECTIONS, AND RELATIONSHIP WITH ADJACENT CONSTRUCTION.
 - 1. SHOP DRAWINGS SHALL BE PREPARED AND STAMPED BY A QUALIFIED ENGINEER LICENSED IN THE JURISDICTION OF THE PROJECT.
- C. MIX DESIGN: SUBMIT FOR APPROVAL MIX DESIGN PROPOSED FOR USE.

1.3 QUALITY ASSURANCE:

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR A MINIMUM OF THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. TESTING: EMPLOY AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO OWNER TO DESIGN CONCRETE MIXES AND TO PERFORM MATERIAL EVALUATION TESTS. PROVIDE 4 AND 28 DAY CYLINDER TESTS. COMPLY WITH ASTM C 143, C 173, C 31 AND C 39.
- C. STANDARDS
 - 1. ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
 - 2. ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AND CRSI MANUAL OF STANDARD PRACTICE.

PART 2: PRODUCTS

2.1 MATERIALS:

- A. MATERIALS SHALL CONFORM TO THE RESPECTIVE PUBLICATIONS AND OTHER REQUIREMENTS SPECIFIED HEREIN.
- B. CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. CEMENT MAY BE BAGGED OR BULK. CEMENT SHALL BE USED FROM ONLY ONE MILL THROUGHOUT PROJECT.
- C. FINE AGGREGATE: FINE AGGREGATE SHALL CONFORM TO ASTM C33-08 AND SHALL BE UNIFORMLY GRADED, CLEAN, SHARP, WASHED MATERIAL OR CRUSHED SAND, FREE FROM ORGANIC IMPURITIES.
- D. COURSE AGGREGATE: COURSE AGGREGATE SHALL CONFORM TO ASTM C33-08 AND SHALL BE NATURAL WASHED GRAVEL OR WASHED CRUSHED ROCK HAVING HARD, STRONG, DURABLE PIECES, FREE FROM ADHERENT COATINGS, THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4" IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C33-08; GRADATION SIZE NO. 67.
- E. WATER: WATER USED IN THE CONCRETE MIX SHALL BE POTABLE, CLEAN, AND FREE FROM OILS, ACIDS, SALTS, CHLORIDES, ALKALI, SUGAR, VEGETABLE, OR OTHER INJURIOUS SUBSTANCES.
- F. REINFORCING STEEL: ALL BARS ARE TO BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. BENDING DETAILS ARE TO CONFORM TO THE STANDARDS OF ACI 318.
- G. FORMS: THE FORMS SHALL BE TRUE AND RIGID AND CONFORM TO SHAPE, LINE AND DIMENSIONS AS SHOWN ON THE DRAWINGS. ALL FORMS SHALL BE RIGIDLY CONSTRUCTED, BRACED AND TIED TO PREVENT ANY DEFLECTION OR DISPLACEMENT DURING PLACING OF CONCRETE. ALL EXPOSED CORNERS AND EDGES SHALL HAVE 3/4" FILLETS. ALL JOINTS SHALL BE MORTAR TIGHT; OPEN JOINTS SHALL BE SEALED AS REQUIRED.
- H. CONCRETE:
 - 1. PROPORTIONING: CONCRETE SHALL CONFORM TO THE FOLLOWING:
 - a. CEMENT-6 SACKS PER CUBIC YARD, MINIMUM
 - b. WATER SHALL BE KEPT TO AN ABSOLUTE MINIMUM TO MAINTAIN SLUMP AS SPECIFIED
 - c. AGGREGATE; SAND FACTOR SHALL BE AS REQUIRED TO GIVE THE BEST WORKABLE MIX WITHIN THE RANGE OF 46% TO 52% OF TOTAL AGGREGATE.
 - d. STRENGTH-4,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE
 - e. ALL CONCRETE SHALL CONTAIN A WATER-REDUCING AGENT AND SHALL HAVE THREE (3) TO FIVE (5) PERCENT ENTRAINED AIR.

2.2 SLUMP:

- A. THE MAXIMUM SLUMP SHALL NOT EXCEED 3" EXCEPT FOR CONCRETE TO BE PLACED IN FORMS 8" WIDE OR LESS, WHERE THE MAXIMUM SLUMP SHALL BE 4".
- B. THE DETERMINATION OF SLUMP SHALL CONFORM TO ASTM C143.

2.3 MIXING:

- A. THE CONTRACTOR SHALL USE READY-MIXED CONCRETE, MIXED AND DELIVERED IN CONFORMANCE WITH ASTM C94.

2.4 MIXTURES:

- A. THE CONCRETE SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE COMPLYING WITH THE REQUIREMENTS OF ASTM C-260 AND ACI 212.1R AND A WATER-REDUCING ADMIXTURE COMPLYING WITH THE REQUIREMENTS OF ASTM C-494 AND ACI 212.1R. ADMIXTURES SHALL BE PURCHASE AND BATCHED IN LIQUID SOLUTION. THE USE OF CALCIUM CHLORIDE OR AN ADMIXTURE CONTAINING CALCIUM CHLORIDE IS PROHIBITED.
- B. ADMIXTURES SHALL BE OF THE SAME MANUFACTURER TO ASSURE COMPATIBILITY.
- C. ACCEPTABLE MANUFACTURERS ARE:
 - 1. W.R. GRACE 3. MASTER BUILDERS
 - 2. SIKA GROUP 4. EUCLID CHEMICAL CO

2.5 CURING COMPOUNDS:

- A. CURING COMPOUNDS SHALL CONFORM TO ASTM C309, TYPE 1, ID, CLASS A AND B AND ASTM C171 AS APPLICABLE

PART 3: EXECUTION

3.1 GENERAL:

- A. CONSTRUCT AND ERECT FORMWORK IN ACCORDANCE WITH ACI 301 ACI 347.
- B. COLD-WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
- C. HOT-WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305.

3.2 INSERTS, EMBEDDED COMPONENTS AND OPENINGS:

- A. CONTRACTOR SHALL CHECK ALL CIVIL, ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS AND OTHER ITEMS TO BE BUILT INTO THE CONCRETE WORK.
- B. COORDINATE THE WORK OF OTHER SECTIONS IN FORMING AND SETTING OPENINGS, RECESSES, SLOTS, CHASES, ANCHORS, INSERTS AND OTHER ITEMS TO BE EMBEDDED.
- C. EMBEDDED ITEMS SHALL BE SET ACCURATELY IN LOCATION, ALIGNMENT, ELEVATION, AND PLUMBNESS. LOCATE AND MEASURE FROM ESTABLISHED SURVEYED REFERENCE BENCHMARKS.
- D. EMBEDDED ITEMS SHALL BE ANCHORED INTO PLACE AS REQUIRED TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT AND CONSOLIDATION. COMPONENTS FORMING A PART OF A COMPLETE ASSEMBLY SHALL BE ALIGNED BEFORE ANCHORING. PROVIDE TEMPORARY BRACING, ANCHORAGE, AND TEMPLATES AS REQUIRED TO MAINTAIN THE SETTING AND ALIGNMENT.

3.3 REINFORCEMENT PLACEMENT:

- A. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH CHECKED AND RELEASED DRAWINGS AND ACI 301 AND ACI 315; SECURELY WIRE-TIE REINFORCEMENT AT ALL INTERSECTIONS.
- B. ACCURATELY POSITION, SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT FROM FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT AND CONSOLIDATION. REINFORCING SHALL BE SUPPORTED ON METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS.
- C. SPLICES OF REINFORCING BARS SHALL BE CLASS B UNLESS SHOWN OTHERWISE. SPLICES SHALL BE STAGGERED. FULL DEVELOPMENT LENGTH SHALL BE PROVIDED ACROSS JOINTS.
- D. LOCATE REINFORCING TO PROVIDE CONCRETE COVER AND SPACING SHOWN ON THE DRAWINGS. MINIMUM COVER SHALL BE AS REQUIRED BY ACI 318.
- E. WELDING OF AND TO ANY REINFORCING MATERIALS INCLUDING TACK WELDING OF CROSSING BARS IS STRICTLY PROHIBITED. BARS SHALL BE FREE OF FLAKY OR SCALY RUST AT THE TIME THE CONCRETE IS PLACED.

3.4 CONCRETE PLACEMENT:

- A. PRIOR TO PLACING CONCRETE, FORMS AND REINFORCEMENT SHALL BE THOROUGHLY INSPECTED. ALL WOOD CHIPS, DIRT, ETC., AS WELL AS ALL TEMPORARY BRACING, TIES, AND CLEATS REMOVED, AND ALL OPENINGS FOR UTILITIES PROPERLY BOXED. ALL FORMS SHALL BE PROPERLY SECURED IN THEIR CORRECT POSITION AND MADE TIGHT. ALL REINFORCING AND EMBEDDED ITEMS SHALL BE SECURED IN THEIR PROPER LOCATIONS. ALL OLD AND DRY CONCRETE AND DIRT SHALL BE CLEANED AND ALL STANDING WATER AND OTHER FOREIGN MATTER REMOVED.

- B. PLACING CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 304 AND SHALL BE CARRIED OUT AT SUCH A RATE THAT THE CONCRETE PREVIOUSLY PLACED IS STILL PLASTIC AND INTEGRATED WITH THE FRESHLY PLACE CONCRETE. CONCRETING, ONCE STARTED, SHALL BE CARRIED ON AS A CONTINUOUS OPERATION UNTIL THE SECTION IS COMPLETED. NO COLD JOINTS SHALL BE ALLOWED.
- C. CONSTRUCTION JOINTS: USE KEYWAYS, CONTINUE REINFORCEMENT THROUGH JOINT.
- D. EXPANSION JOINTS: FOR EXTERIOR WORK, LOCATE AT 30'-0" O.C. MAXIMUM, AT APPROVED LOCATIONS. PROVIDE SMOOTH DOWELS ACROSS JOINT WHICH PERMIT 1" HORIZONTAL MOVEMENT AND NO VERTICAL SHEAR MOVEMENT.
- E. ISOLATION JOINTS: PROVIDE BETWEEN SLABS AND VERTICAL ELEMENTS SUCH AS COLUMNS AND STRUCTURAL WALLS.
- F. CONTROL JOINTS: PROVIDE SAWN OR TOOLED JOINTS OR REMOVABLE INSERT STRIPS; DEPTH EQUAL TO 1/4 SLAB THICKNESS. SPACING SHALL BE AS REQUIRED AND APPROVED.
- G. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED AND COMPACTED BY VIBRATION, SPADING, RODDING, OR FORKING DURING THE OPERATION OF PLACING AND DEPOSITING IN ACCORDANCE WITH ACI 309. THE CONCRETE SHALL BE WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS, AND INTO THE CORNERS OF THE FORMS SO AS TO ELIMINATE ALL AIR AND STONE POCKETS.

3.5 FINISHING:

- A. FINISHING OF ALL SLABS SHALL BE IN ACCORDANCE WITH ACI 302.1; SECTION 7.2 WITH A MINIMUM OF THREE TROWELINGS.
 - 1. INTERIOR SLAB FINISH TOLERANCE AS MEASURED IN ACCORDANCE WITH ASTM E 1155, SHALL HAVE AN OVERALL TEST F NUMBER FOR FLATNESS, FF=20 AND FOR LEVEL, FL=15. THE MINIMUM LOCAL NUMBER FOR FLATNESS, FF=15 AND FOR LEVEL, FL=10.
 - 2. EXTERIOR SLAB FINISH SHALL BE FLAT (FF=20) AND SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT TO A MAXIMUM OF 1/4" PER FOOT TO PREVENT PONDING WATER.
- B. SURFACES OF SLABS SHALL RECEIVE TWO COATS OF CLEAR SEALER/HARDNER.
- C. ABOVE GRADE WALL SURFACES SHALL HAVE A SMOOTH FORM FINISH AS DEFINED IN CHAPTER 10 OF ACI 301.

3.6 CURING:

- A. FRESHLY DEPOSITED CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING AND EXCESSIVELY HOT OR COLD TEMPERATURES AND SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD OF TIME NECESSARY FOR THE HYDRATION OF THE CEMENT AND PROPER HARDENING OF THE CONCRETE.
- B. CURING SHALL IMMEDIATELY FOLLOW THE FINISH OPERATION. CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST AT LEAST OVERNIGHT, IMMEDIATELY FOLLOWING THE INITIAL CURING. BEFORE THE CONCRETE HAS DRIED, ADDITIONAL CURING SHALL BE ACCOMPLISHED BY ONE OF THE FOLLOWING MATERIALS OR METHODS:
 - 1. PONDING OR CONTINUOUS SPRINKLING
 - 2. ABSORPTIVE MAT OR FABRIC KEPT CONTINUOUSLY WET
 - 3. NON-ABSORPTIVE FILM (POLYETHYLENE) OVER A PREVIOUSLY SPRINKLED SURFACE
 - 4. SAND OR OTHER COVERING KEPT CONTINUOUSLY WET
 - 5. CONTINUOUS STEAM (NOT EXCEEDING 150 DEGREES F) OR VAPOR MIST BATH.
 - 6. SPRAYED-ON CURING COMPOUND APPLIED IN TWO COATES, SPRAYED IN PERPENDICULAR DIRECTIONS.
- C. THE FINAL CURING SHALL CONTINUE UNTIL THE CUMULATIVE NUMBER OF DAYS OR FRACTION THEREOF, NOT NECESSARILY CONSECUTIVE, DURING WHICH TEMPERATURE OF THE AIR IN CONTACT WITH CONCRETE IS ABOVE 50 DEGREES F HAS TOTALED SEVEN (7) DAYS. CONCRETE SHALL NOT BE PERMITTED TO FREEZE DURING THE CURING PERIOD. RAPID DRYING AT THE END OF THE CURING PERIOD SHALL BE PREVENTED.

END OF SECTION

STAMP



ENGINEERING LICENSE			
STATE OF KANSAS			
PE CERTIFICATE OF AUTHORIZATION # E-571			
ENGINEER	PE#	DISCIPLINE	
KMV KEVIN M. VANMAELE	22105	CIVIL	
REJ ROBERT E. JENSEN	18096	CIVIL	
CC CHRISTOPHER GUANNOTTI	28873	CIVIL	
PJD PATRICK J. DAVIS	25087	CIVIL	
SDK SHELTON D. KEISLING	13854	ELECTRICAL	
DJW DAVID J. WALDRON	31220	ELECTRICAL	
TMS TERRANCE M. SUPER	9250	ELECTRICAL	



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SUBMITTALS				
ISSUED FOR REVIEW	DESCRIPTION	DATE	BY	REV
	REISSUED PER CLIENT COMMENTS	11/04/25	AWD	B

MLA SITE NAME
STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
**MTPL NEVADA RELHR
 TBD**

SITE ADDRESS
**3751 NEVADA ROAD
 OTTAWA, KS 66067**

SHEET DESCRIPTION SPECIFICATIONS (2 OF 7)	SHEET # SP-1.1
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NEW/VOY UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZV LANDSPACE
 PENETRATIONS
 BR/BBU
 ANTENNAS
 FIBER
 POWER & GROUNDING
 HYBRID & COAX CABLES

UNIT MASONRY

PART 1: GENERAL

1.1 SUMMARY:

- A. PROVIDE UNIT MASONRY CONSTRUCTION AS INDICATED ON THE DRAWINGS.

PART 2: PRODUCTS

2.1 MATERIALS:

A. CLAY MASONRY UNITS:

- 1. APPLICATION: BRICK AND CONCRETE BLOCK CAVITY WALLS.
2. SIZE: STANDARD MODULAR, 3-5/8" THICK BY 2-1/4" HIGH BY 7-5/8" LONG OR AS INDICATED ON DRAWINGS.
3. TYPE: ASTM C 216, TYPE FBS, FOR GENERAL EXPOSED USE, OR AS INDICATED ON DRAWINGS. GRADE SHALL BE SW, UNLESS NOTED OTHERWISE ON DRAWINGS.
4. SPECIAL SHAPES: AS REQUIRED BY BUILDING CONFIGURATION. OR AS INDICATED ON DRAWINGS
5. BOND PATTERN: RUNNING BOND

B. CONCRETE MASONRY UNITS:

- 1. CONCRETE MASONRY UNITS: HOLLOW, LOAD-BEARING, NORMAL WEIGHT, ASTM C 90, GRADE N, TYPE 1, 1500 F'M COMPRESSIVE STRENGTH:
a. MEDIUM WEIGHT
2. SIZE: 7-5/8" HIGH BY 15-5/8" LONG BY EITHER 7-5/8" OR 11-5/8" THICK OR AS INDICATED ON DRAWINGS.
3. SPECIAL SHAPES: AS REQUIRED BY BUILDING CONFIGURATION.
4. BOND PATTERN: RUNNING BOND UNLESS NOTED OR SHOWN DIFFERENTLY ON DRAWINGS.

C. LIMESTONE/PRECAST TRIM UNITS:

- 1. GRADE AND COLOR: AS SHOWN ON DRAWINGS
2. FINISH: AS IDENTIFIED ON DRAWINGS

D. MORTAR AND GROUT FOR BRICK AND CONCRETE MASONRY UNIT ASSEMBLIES:

- 1. MORTAR MIX: ASTM C 270, TYPE S, FOR REINFORCED MASONRY, MASONRY BELOW GRADE AND MASONRY IN CONTACT WITH EARTH AND ASTM C 270, TYPE N, FOR ABOVE-GRADE LOADBEARING AND NONLOADBEARING WALLS. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. MASONRY CEMENT SHALL CONFORM TO ASTM C91. FINE AGGREGATE SHALL CONFORM TO ASTM C144.
2. MORTAR COLOR: NATURAL COLOR UNLESS NOTED OTHERWISE ON DRAWINGS.
3. GROUT: ALL GROUT FOR FILLING BOND BEAMS AND REINFORCED CELLS SHALL CONFORM TO NON-AIR ENTRAINED GROUT PER ASTM C476 WITH PORTLAND CEMENT PER ASTM C150, TYPE 1, AND FINE AND COARSE AGGREGATE PER ASTM C404.

E. REINFORCING STEEL:

- 1. REINFORCING BARS: ASTM A 615, GRADE 60.
2. WELDED WIRE FABRIC: ASTM A 185, PLAIN.

F. REINFORCING: WELDED WIRE WITH DEFORMED SIDE RODS.

- 1. STEEL WIRE: 9 GAUGE (.1875 INCH) GALVANIZED STEEL
2. TRUSS TYPE

G. TIES AND ANCHORS:

- 1. BENT WIRE TIES: GALVANIZED STEEL
2. RIGID ANCHORS: GALVANIZED STEEL STRAPS.

PART 3: EXECUTION

3.1 INSTALLATION:

A. INSTALLATION OF MASONRY ASSEMBLIES:

- 1. COMPLY WITH PCA RECOMMENDED PRACTICES FOR LAYING CONCRETE BLOCK, BRICK INSTITUTE OF AMERICA BIA TECH NOTES, AND NCMA TEK BULLETINS.
2. COMPLY WITH COLD WEATHER AND WARM WEATHER PROTECTION PROCEDURES AS RECOMMENDED IN BIA TECH NOTES.

END OF SECTION

STRUCTURAL STEEL FRAMING

PART 1: GENERAL

1.1 SUMMARY:

- A. PROVIDE STRUCTURAL STEEL ASSEMBLIES, FABRICATIONS, AND ERECTION OF STEEL AND OTHER ITEMS AS SHOWN ON THE DRAWINGS OR REQUIRED FOR A COMPLETE INSTALLATION.

1.2 QUALITY ASSURANCE:

- A. COMPLY WITH ALL APPLICABLE GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. STANDARDS: AISC, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AND APPLICABLE REGULATIONS.
C. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL: COMPLY WITH FABRICATION REQUIREMENTS, INCLUDING TOLERANCE LIMITS, AND INSTALLATION TOLERANCES OF AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" FOR STRUCTURAL STEEL.
D. ERECTION TOLERANCES: AISC STANDARDS.

1.3 SUBMITTALS:

- A. SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND ALL TOP OF STEEL ELEVATIONS TO ENGINEER FOR APPROVAL.
B. WELDERS SHALL BE QUALIFIED AS PRESCRIBED IN AWS D1.1.

PART 2: PRODUCTS

2.1 MATERIALS:

A. STRUCTURAL STEEL:

- 1A. STRUCTURAL STEEL W-SHAPES: ASTM A992.
1B. STRUCTURAL STEEL OTHER SHAPES, PLATES, AND BARS: ASTM A572, ASTM A36.
2. COLD-FORMED STEEL TUBING: ASTM A500, GRADE B.
3. STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B.
4. ANCHOR BOLTS: ASTM A307, NON-HEADED TYPE.
5. COMMON (MACHINE) BOLTS SHALL CONFORM TO ASTM A307 GRADE A AND NUTS TO ASTM A563. ONE COMMON BOLT ASSEMBLY SHALL CONSIST OF A BOLT, A HEAVY HEX NUT, AND A HARDENED WASHER CONFORMING TO ASTM F436. BOLTS AND NUTS TO BE HOT-DIP GALVANIZED PER ASTM A153 IF EXPOSED.
6. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325 AND NUT TO ASTM A563. ONE HIGH STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A HEAVY HEX STRUCTURAL BOLT, A HEAVY HEX NUT, AND TWO HARDENED WASHERS CONFORMING TO ASTM F436. THE HARDENED WASHERS SHALL BE INSTALLED AGAINST THE ELEMENT TURNED IN TIGHTENING. BOLTS AND NUTS TO BE HOT-DIP GALVANIZED PER ASTM A153 IF EXPOSED.

7. AUXILIARY MATERIALS:

- a. DIRECT TENSION INDICATORS: ASTM A959.
b. ELECTRODES FOR WELDING: AWS CODE; E70XX.
B. GROUTS:
a. CEMENT GROUT: PORTLAND CEMENT, SAND.
b. METALLIC SHRINKAGE-RESISTANT GROUT: PREMIXED FERROUS AGGREGATE GROUTING COMPOUND ASTM C1107.
c. NONMETALLIC SHRINKAGE-RESISTANT GROUT: PREMIXED NONMETALLIC GROUTING COMPOUND, ASTM C1107.

B. SHOP PAINTING

- 1. GENERAL: ALL STRUCTURAL STEEL MATERIALS EXPOSED TO THE ELEMENTS SHALL BE HOT-DIP GALVANIZED PER ASTM A123. ALL OTHER STRUCTURAL STEEL SHALL BE SHOP PRIMED.
a. DO NOT PAINT SURFACES TO BE WELDED OR HIGH-STRENGTH BOLTED WITH FRICTION-TYPE CONNECTIONS.
b. DO NOT PAINT SURFACES SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING.

- 2. STRUCTURAL STEEL FACTORY APPLIED PRIMER PAINT (FOR NON-GALVANIZED MATERIALS): STANDARD RED OXIDE, LEAD AND CHROMATE-FREE, NON-ASHPHALTIC, RUST-INHIBITING PRIMER COMPLYING WITH FS TT-P-664.

- 3. ZINC COATED (HOT-DIP GALVANIZED) PER ASTM A123 (AFTER FABRICATION): TOUCH-UP AFTER ERECTION: CLEAN AND WIRE BRUSH ANY ABRADED AND OTHER SPOTS WORN THROUGH ZINC COATING, INCLUDING THREADED PORTIONS OF BOLTS AND WELDS AND TOUCH-UP WITH GALVANIZING REPAIR PAINT.

C. FIELD PAINTING: REPAIR / TOUCH-UP OF DAMAGED GALVANIZED OR PRIMED SURFACES AND WELDS:

- a. FOR GALVANIZED SURFACES AND WELDS, USE ORGANIC ZINC-RICH COATING MATCHING THE APPEARANCE OF HOT-DIP GALVANIZING CONTAINING AT LEAST 65% - 69% OR ABOVE 92% METALLIC ZINC, BY WEIGHT IN THE DRY FILM, MEETING THE PERFORMANCE REQUIREMENTS OF THE FOLLOWING: ASTM A780-01, DOD-P-21035B, MIL-P-48105, AND SSPC PS-12, PS-12.01, PS-20, PS-22, PS-29 AND PS-30.
b. FOR PRIMED SURFACES, CLEAN ALL SURFACES AND RE-PRIME PER RECOMMENDATIONS OF ORIGINAL PRIME MATERIALS.

PART 3: EXECUTION

3.1 FABRICATION:

A. SHOP FABRICATE AND ASSEMBLE MATERIALS AS SPECIFIED HEREIN:

- 1. FABRICATE ITEMS IN ACCORDANCE WITH THE AISC SPECIFICATIONS.
2. ALL EXPOSED STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED PER ASTM A123.
3. PROPERLY MARK AND MATCH-MARK MATERIALS FOR FIELD ASSEMBLY AND FOR IDENTIFICATION AS TO LOCATION FOR WHICH INTENDED.
4. FABRICATE AND DELIVER IN A SEQUENCE WHICH WILL EXPEDITE ERECTION AND MINIMIZE FIELD HANDLING OF MATERIALS.
5. PROVIDE FINISH SURFACE OF MEMBERS EXPOSED IN THE FINAL STRUCTURE FREE FROM MARKINGS, BURRS, AND OTHER DEFECTS.

B. CONNECTIONS

- 1. PROVIDE BOLTS AND WASHERS OF TYPES AND SIZE REQUIRED FOR COMPLETION OF FIELD ERECTION. USE 3/4" DIAMETER A325N BOLTS UNLESS NOTED OTHERWISE.
2. INSTALL HIGH STRENGTH THREADED FASTENERS IN ACCORDANCE WITH RCSC "SPECIFICATIONS FOR STRUCTURAL JOINTS" USING ASTM A325N BOLTS.
3. WELDED CONSTRUCTION SHALL COMPLY WITH AWS D1.1 FOR PROCEDURES, APPEARANCE, QUALITY OF WELDS, AND METHODS USED IN CORRECTING WELDED WORK.
4. THE FABRICATOR SHALL FURNISH AND INSTALL ERECTION CLIPS FOR FIT-UP OF WELDED CONNECTIONS.
5. DOUBLE ANGLE MEMBERS SHALL HAVE WELDED FILLERS SPACED IN ACCORDANCE WITH CHAPTER E6 OF THE AISC SPECIFICATIONS.
6. GUSSET AND STIFFENER PLATES SHALL BE 3/8" THICK MINIMUM.

3.2 INSTALLATION:

- A. INSTALLATION OF STRUCTURAL STEEL SHALL COMPLY WITH AISC "CODE OF STANDARD PRACTICE".
B. STRUCTURAL FIELD WELDING SHALL BE DONE BY THE ELECTRIC SUBMERGED OR SHIELDED METAL ARC PROCESS. WELDED CONSTRUCTION SHALL COMPLY WITH AWS D1.1.
C. PROVIDE TEMPORARY SHORING AND BRACING WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS. REMOVE WHEN FINAL CONNECTIONS HAVE BEEN MADE.
D. ALIGN AND ADJUST MEMBERS AS REQUIRED PRIOR TO FINAL INSPECTION.
E. INSTALL AND FULLY TENSION HIGH STRENGTH THREADED FASTENERS IN ACCORDANCE WITH RCSC, "SPECIFICATIONS FOR STRUCTURAL JOINTS" USING ASTM A325N BOLTS.
F. ALL BOLTS TO BE TIGHTENED TO "SNUG TIGHT" CONDITIONS. FEW IMPACTS FROM AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH.

3.3 FINAL INSPECTION:

- A. CLEAN ALL SURFACES UPON COMPLETION OF WORK.
B. COMPLY WITH AISC CODES AND SPECIFICATIONS, AND WITH AWS "STRUCTURAL WELDING CODE".
C. TOUCH-UP FIELD WELDS AND ABRADED AREAS AS REQUIRED.

END OF SECTION

STAMP



Table with columns: ENGINEERING LICENSE, STATE OF KANSAS, PE CERTIFICATE OF AUTHORIZATION # E-571, ENGINEER, PE#, DISCIPLINE. Lists names like KEVIN M. VANMAELE, ROBERT E. JENSEN, CHRISTOPHER GIANNOTTI, PATRICK J. DAVIS, SHELTON D. KEISLING, DAVID J. WALDRON, TERRANCE M. SUPER.



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Table with columns: SUBMITTALS, DESCRIPTION, DATE, BY, REV. Includes rows for ISSUED FOR REVIEW and REISSUED PER CLIENT COMMENTS.

MLA SITE NAME: STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER: MTPL NEVADA RELHR TBD

SITE ADDRESS: 3751 NEVADA ROAD OTTAWA, KS 66067

Table with columns: SHEET DESCRIPTION, SHEET #. Includes row: SPECIFICATIONS (3 OF 7) SP-1.2

NEW VZW UTILITY EASEMENT, ACCESSIBILITY EASEMENT, VZW LANDSPACE, PENETRATIONS, RHHSBU, ANTENNAS, FIBER, POWER/ GROUNDING, HYBRID & COAX CABLES

EARTH MOVING/EXCAVATION/BACKFILLING SECTION

PART 1: GENERAL

1.1 SUMMARY:

- A. PROVIDE EARTHWORK OPERATIONS INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING, TRENCHING AND COMPACTION.

1.2 QUALITY ASSURANCE COMPACTION:

- A. UNDER STRUCTURES, BUILDING SLABS, STEPS, PAVEMENTS, AND WALKWAYS, 95% MAXIMUM DENSITY, ASTM D 1557.
 - 1. GRADING TOLERANCES:
 - a. LAWNS, UNPAVED AREAS, AND WALKS, PLUS OR MINUS 1".
 - b. KEEP SITE FREE FROM ANY PONDING WATER
 - c. GRADING TOLERANCE FOR FILL UNDER BUILDING OR EQUIPMENT SLABS: PLUS OR MINUS 1/4" MEASURED WITH 10'-0" STRAIGHTEDGE.
 - 2. TESTING: FIELD TESTING OF EARTHWORK AND COMPACTION SHALL BE PERFORMED BY OWNER'S INDEPENDENT TESTING LAB. THIS WORK IS TO BE COORDINATED BY THE CONTRACTOR.
 - 3. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE OWNER OR HIS AGENT WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK AS SPECIFIED AND/OR CALLED OUT BY THE CONSTRUCTION DOCUMENTS. PROVIDE A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY PLACEMENT OF CONCRETE OR BACKFILLING OF TRENCHES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.
 - 4. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY OWNER OR HIS AGENT AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

PART 2: PRODUCTS

2.1 GENERAL:

- A. UTILITY TRENCH: PROVIDE WELL GRADED SAND (SW-SM) FROM BASE OF TRENCH TO MINIMUM ABOVE THE HIGHEST CONDUIT WITHIN TRENCH. REMAINDER OF TRENCH AREA CAN BE EITHER AB 3 OR CLEAN GRAVEL AS DESCRIBED HEREIN. COMPACT AS REQUIRED TO PREVENT SETTLING.
- B. ACCESS ROADS: 6" MINIMUM (UNLESS NOTED OTHERWISE ON DRAWINGS) COMPACTED AB 3 OR APPROVED EQUAL (UNWASHED CRUSHED LIMESTONE GRAVEL CONSISTING OF MULTIPLE AGGREGATE SIZES, ROCK CHIPS, AND ROCK DUST.)
- C. COMPOUND (NEW CONSTRUCTION): 2" THICK CLEAN GRAVEL, WITH 100% PASSING THROUGH A 1" SIEVE OVER 4" COMPACTED AB 3.
- D. COMPOUND (EXISTING): PROVIDE CLEAN GRAVEL WITH 100% PASSING THROUGH A 1" SIEVE AS REQUIRED TO BRING COMPOUND TO PROPER GRADE OR REPAIR EXISTING DAMAGED AREAS.
- E. STRUCTURAL FILL: PROVIDE 4" MINIMUM AB 3 BELOW STRUCTURES OR SLABS

2.2 MATERIALS:

- A. GEOTEXTILE FABRIC: PROVIDE MIRAFI 500X OR APPROVED EQUAL
- B. PLASTIC MARKING TAPE: SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES, 6" WIDE WITH A MINIMUM THICKNESS OF 0.004". TAPE SHALL HAVE MINIMUM STRENGTH OF 1500 PSI IN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL WIRES OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3'-0" DEEP. THE CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR OTHER MEANS TO PROTECT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION

PART 3: EXECUTION

3.1 INSTALLATION:

- A. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE OF ANY STRUCTURE NOT SHOWN THAT MIGHT INTERFERE WITH NEW CONSTRUCTION. NOTIFY THE OWNER OR HIS AGENT OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- B. EXCAVATION IS UNCLASSIFIED AND INCLUDES EXCAVATION TO SUBGRADE REGARDLESS OF MATERIALS. REPAIR EXCAVATIONS BEYOND ELEVATIONS AND DIMENSIONS INDICATED AS REQUIRED.
- C. MAINTAIN STABILITY OF EXCAVATIONS: COORDINATE SHORING AND BRACING AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. PREVENT SURFACE AND SUBSURFACE WATER FROM ACCUMULATING IN EXCAVATIONS. STOCKPILE SATISFACTORY MATERIALS FOR REUSE, ALLOW FOR PROPER DRAINAGE.

- D. COMPACT MATERIALS AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 1557 BY AERATION OR WETTING TO 95% OF MAXIMUM DRY DENSITY TO SUITABLE DEPTH.
- E. PLACE ACCEPTABLE MATERIALS IN LAYERS NOT MORE THAN 8" LOOSE DEPTH FOR MATERIALS COMPACTED BY HEAVY EQUIPMENT AND NOT MORE THAN 4" LOOSE DEPTH FOR MATERIALS COMPACTED BY HAND EQUIPMENT TO SUBGRADES INDICATED AS FOLLOWS:
 - 1. STRUCTURAL FILL: USE UNDER FOUNDATIONS, SLABS ON GRADE IN LAYERS AS INDICATED.
 - 2. DRAINAGE FILL: USE UNDER DESIGNATED BUILDING SLABS, AT FOUNDATION DRAINAGE AND ELSEWHERE AS INDICATED.
 - 3. COMMON FILL: USE UNDER UNPAVED AREAS.
 - 4. SUBBASE MATERIAL: USE UNDER GENERAL COMPOUND AREA. IF THICKNESS OF LIFT IS GREATER THAN 6" SPREAD AND COMPACT THE CRUSHED STONE IN MULTIPLE LIFTS OF EQUAL THICKNESS WITH A MAXIMUM LIFT OF 6"
- F. GRADE TO 1/2" ABOVE OR BELOW REQUIRED SUBGRADE AND TO A TOLERANCE OF 1/4" IN 10'-0".
- G. PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION. RE-COMPACT AND RE-GRADE SETTLED, DISTURBED AND DAMAGED AREAS TO RESTORE QUALITY, APPEARANCE, AND CONDITION.
- H. CONTROL EROSION TO PREVENT RUNOFF INTO SEWERS OR DAMAGE TO AREAS.
- I. CONTROL DUST TO PREVENT HAZARDS TO ADJACENT PROPERTIES AND VEHICLES. IMMEDIATELY REPAIR OR REMEDY DAMAGE CAUSED BY DUST INCLUDING AIR FILTERS IN EQUIPMENT AND VEHICLES. CLEAN SOILED SURFACES.
- J. DISPOSE OF WASTE AND UNSUITABLE MATERIALS OFF-SITE IN A LEGAL MANNER.

3.2 BACKFILL:

- A. AS SOON AS PRACTICAL AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
 - 1. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL HAVE BEEN REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
 - 2. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL, WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8" LOOSE THICKNESS. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4" IN LOOSE DEPTH.
 - 3. IF THE DENSITY TESTING INDICATES THAT THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS AUTHORIZED BY THE GEO-TECHNICAL ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY TO OBTAIN PROPER COMPACTION.
- B. COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE OWNER OR HIS AGENT. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- B. EXTEND THE TRENCH WIDTH A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF THE OUTER-MOST CONDUIT.
- C. WHEN SOFT, YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, BACKFILL AT THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12" BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL (WELL GRADED SAND) IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE OWNER OR HIS AGENT 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6" UNCOMPACTED LIFTS UNTIL 6" OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACES AROUND CONDUITS.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.

- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT BACKFILL MATERIAL IN 8" MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN EXISTING UNDISTURBED MATERIAL ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.5 AGGREGATE ACCESS ROAD (IF APPLICABLE):

- A. CLEAR, GRUB, STRIP AND EXCAVATE FOR ACCESS ROAD TO THE LINES AND GRADES INDICATED ON DRAWINGS. SCARIFY TO A DEPTH OF 6" AND PROOF-ROLL ALL HOLES, RUTS, SOFT PLACES AND OTHER DEFECTS.
- B. THE ENTIRE SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 1557.
- C. AFTER PREPARATION OF THE SUBGRADE IS COMPLETE, THE GEOTEXTILE FABRIC (MIRAFI 500X) SHALL BE INSTALLED TO THE LIMITS INDICATED ON DRAWINGS BY ROLLING THE FABRIC OUT LONGITUDINALLY ALONG ROADWAY. THE FABRIC SHALL NOT BE DRAGGED ACROSS THE SUBGRADE. PLACE THE ENTIRE ROLL IN A SINGLE OPERATION, AS SMOOTHLY AS POSSIBLE.
 - 1. OVERLAPS PARALLEL TO THE ROADWAY WILL BE PERMITTED AT THE CENTERLINE AND AT LOCATIONS BEYOND THE ROADWAY SURFACE WIDTH. NO LONGITUDINAL OVERLAPS SHALL BE LOCATED BETWEEN THE CENTERLINE AND THE SHOULDER. PARALLEL OVERLAPS SHALL BE A MINIMUM OF 3'-0" WIDE.
 - 2. TRANSVERSE OR PERPENDICULAR OVERLAPS AT THE END OF A ROLL SHALL OVERLAP IN THE DIRECTION OF THE AGGREGATE PLACEMENT (PREVIOUS ROLL ON TOP) AND SHALL HAVE A MINIMUM LENGTH OF 3'-0".
 - 3. ALL OVERLAPS SHALL BE PINNED WITH STAPLES OR NAILS BETWEEN 10" AND 12" LONG TO INSURE POSITIONING DURING PLACEMENT OF AGGREGATE. PIN LONGITUDINAL SEAMS AT 25'-0" O.C. AND TRANSVERSE SEAMS EVERY 5'-0" O.C.
- D. THE AGGREGATE BASE AND SURFACE COURSES SHALL BE CONSTRUCTED IN LAYERS NOT MORE THAN 8" (COMPACTED) THICKNESS. AGGREGATE TO BE PLACED ON GEOTEXTILE FABRIC AND SHALL BE END-DUMPED ON THE FABRIC FROM THE FREE END OF THE FABRIC OR OVER PREVIOUSLY PLACED AGGREGATE. AT NO TIME SHALL EQUIPMENT BE PERMITTED ON THE ROADWAY WITH LESS THAN 6" OF MATERIAL COVERING THE FABRIC.
- E. THE AGGREGATE SHALL BE IMMEDIATELY COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE PROCTOR TEST, ASTM D 1557 WITH A TAMPING ROLLER, A PNEUMATIC-TIRED ROLLER, OR WITH A VIBRATORY MACHINE OR ANY COMBINATION OF THE ABOVE. THE TOP LAYER SHALL BE GIVEN A FINAL ROLLING WITH A THREE-WHEEL OR TANDEM ROLLER.

3.6 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE SATISFACTORY FILL MATERIALS RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR THE REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. ACHIEVE FINISHED GRADE BY PLACING A MINIMUM OF 6" OF AB 3 ON TOP OF SOIL STABILIZER FABRIC.
- D. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

END OF SECTION

STAMP

PRELIMINARY ISSUE

ENGINEERING LICENSE
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	18096	CIVIL
CD CHRISTOPHER GIANNOOTTI	28673	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

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SUBMITTALS	DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW		09/30/25	AWD	A
REISSUED PER CLIENT COMMENTS		11/04/25	AWD	B

MLA SITE NAME

STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR
TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION

SPECIFICATIONS
(4 OF 7)

SHEET #

SP-1.3

NEW VZW UTILITY EASEMENT
ACCESS/UTILITY EASEMENT
VZW LANDSPACE
PENETRATIONS
RR/HBBU
ANTENNAS
FIBER
POWERS & GROUNDING
HYBRID & COAX CABLES

NEW VZW UTILITY EASEMENT
ACCESS/UTILITY EASEMENT
VZW LANDSPACE
PENETRATIONS
RHYBBU
ANTENNAS
FIBER
PONEU GROUNDING
HYBRID & COAX CABLES

FENCES AND GATES (UNLESS NOTED OTHERWISE)

PART 1: GENERAL

1.1 SUMMARY:

- A. PROVIDE FENCING AND GATES INCLUDING ALL ASSOCIATED POSTS, RAILS, BRACES, TERMINAL POSTS, AND RELATED MATERIALS AS SHOWN ON DRAWINGS.
 - 1. TYPE A: GALVANIZED CHAIN LINK FENCING AND GATES
 - 2. TYPE B: GALVANIZED CHAIN LINK FENCING AND GATES WITH BARBED WIRE
 - 3. TYPE C: TREATED WOOD FENCING AND GATES
 - 4. MATCH EXISTING FENCE
- B. TERMINOLOGY:
 - 1. CHAIN LINK CLASSIFICATION: GALVANIZED (ZINC COATED).
 - 2. TREATED LUMBER: TREATED LUMBER SHALL BE ACQ OR APPROVED EQUAL. CCA WILL NOT BE ACCEPTED.
 - 3. O.D.: OUTSIDE DIMENSION

1.2 QUALITY ASSURANCE:

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS.
- B. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS.

1.3 SCHEDULING AND SEQUENCING:

- A. CERTAIN PORTIONS OF THE WORK MAY BE SPECIFIED TO BE COMPLETED AND OPERATIONAL PRIOR TO COMPLETION OF ALL WORK. SEQUENCE AND PROPERLY PROTECT EQUIPMENT TO PREVENT CONTAMINATION OR DAMAGE TO EQUIPMENT IN ADJACENT WORK AREAS.
- B. STORAGE AND PROTECTION: STORE MATERIALS A MINIMUM OF 12" ABOVE GROUND.

PART 2A: PRODUCTS - CHAIN LINK FENCES AND GATES

2A.1 PRODUCTS:

- A. FENCE FABRIC, POSTS, TENSION WIRE, CORNER POSTS, AND APPURTENANCES SHALL CONFORM TO THE ASTM CODES AND STANDARDS FOR THE APPROPRIATE TYPE OF MATERIALS AS LISTED.
- B. MATERIALS SHALL BE UNIFORM, CONSISTENT, AND MEET THE FOLLOWING REQUIREMENTS.
 - 1. FENCE FABRIC: 6'-0" HIGH (UNLESS NOTED OTHERWISE), HEAVY GALVANIZED CHAIN LINK FENCE CONFORMING TO ASTM A392, CLASS 2, OF 2" MESH 9 GAGE WIRE (0.148" DIAMETER), WITH THE TOP SELVAGE BARBED AND THE BOTTOM KNUCKLED.
 - 2. LINE POSTS: LINE POSTS SHALL BE GALVANIZED PIPE. COMPLY WITH ASTM F 1083.
 - 3. END, CORNER, AND PULL POSTS: GALVANIZED PIPE. COMPLY WITH ASTM F 1083.
 - 4. GATE POSTS: GALVANIZED PIPE. COMPLY WITH ASTM F 1083.
 - 5. BRACE RODS (LOCATED ON EACH SIDE OF GATES AND EACH SIDE AT CORNERS): GALVANIZED PIPE.
 - 6. TRUSS RODS/CROSS BRACING: DIAGONAL BARS WITH TURNBUCKLE.
 - 7. TENSION WIRE: US STEEL WIRE GALVANIZED PER ASTM A118 COATING CLASS III
 - 8. APPURTENANCES SUCH AS BRACE BANDS, TENSION BANDS AND BARS: FABRICATED OF GALVANIZED STEEL WITH GALVANIZED STEEL CARRIAGE BOLTS AND NUTS PER ASTM A123. TENSION BARS SHALL BE GALVANIZED STEEL BAR PER ASTM A153.
 - 9. FABRIC TIES: CLASS I GALVANIZED STEEL WIRE NO LESS THAN 9 GA.
 - 10. POST TOPS: PROVIDED FOR EACH POST. MATERIALS SHALL BE PRESSED STEEL OR MALLEABLE IRON THAT PROVIDES WATERTIGHT CLOSURE CAP FOR TUBULAR POSTS AND SHALL BE GALVANIZED PER ASTM A153.
 - 11. BARBED WIRE: BARBED WIRE SHALL CONSIST OF DOUBLE STRANDED, 12-1 1/2 GAGE O.C. THE TOP WIRE ASTM A121, CLASS 3 WITH 4 POINT BARBS, SHALL CONSIST OF 3 STRANDS OF BARBED WIRE ATTACHED TO A 45 DEGREE ANGLE WITH HEAVY PRESSED ARMS CAPABLE OF WITHSTANDING, WITHOUT FAILURE 250 POUNDS DOWNWARD PULL AT THE OUTERMOST END OF THE ARM.

12. GATES

- a. GATE MATERIALS SUCH AS FABRIC, BOLTS, NUTS, AND TENSION BARS, SHALL BE CONSISTENT WITH FENCE MATERIALS. GATES SHALL CONSIST OF BOTH SINGLE AND DOUBLE SWING GATES AS SHOWN ON THE DRAWINGS.
- b. GATES SHALL BE MANUALLY OPERATED.
- c. GATE FRAMES SHALL BE FURNISHED WITH ALL NECESSARY FITTINGS, INCLUDING HEAVY DUTY COMMERCIAL DOUBLE GATE LATCH.

PART 2B PRODUCTS: WOOD FENCES AND GATES

2B.1 PRODUCTS:

- A. FENCE MATERIALS, INCLUDING POSTS, RAILS, CORNER POSTS, AND PICKETS SHALL BE AS FOLLOWS:
 - 1. END CORNER, GATE, AND PULL POSTS SHALL BE GALVANIZED STEEL PIPE PER ASTM A120.
 - 2. LINE POSTS UP TO SHALL BE COLD-FORMED AND WELDED STEEL PIPE COMPLYING WITH ASTM F 1043 & ASTM A120.
 - 3. TOP, MIDDLE, AND BOTTOM RAILS SHALL BE TREATED LUMBER.
 - 4. PICKETS SHALL BE TREATED LUMBER.
- B. TREATED LUMBER
 - 1. ALL ABOVE GROUND MATERIALS SHALL BE TREATED WITH A MINIMUM OF .25 POUNDS OF PRESERVATIVE PER CUBIC FOOT OF MATERIAL.
 - 2. TREATMENT FOR LUMBER SHALL BE APPROVED BY ALL GOVERNING BODIES.
- C. GATES:
 - 1. MANUALLY OPERATED WOOD GATES SHALL BE CONSTRUCTED WITH STEEL FRAME AND WOOD PICKETS. GATES SHALL BE SINGLE OR DOUBLE SWING AS INDICATED ON DRAWINGS.
- D. PIPE GRIP TIES: PROVIDE PIPE GRIP TIES OF RECOMMENDED SIZE FOR USE WITH STEEL POSTS SIMPSON PGT'S. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PART 3: EXECUTION

3.1 INSTALLATION:

- A. PHYSICAL LOCATIONS OF FEATURES SUCH AS FENCE LINES, GATES, TERMINAL POSTS SHALL BE PER THE PLANS.
- B. INSTALL MATERIALS PER MANUFACTURER'S INSTRUCTIONS. COMPLY WITH ASTM F 567 FOR CHAIN LINK FENCES AND F 537 FOR WOOD FENCES. INSTALL MATERIALS WITH UNIFORM APPEARANCE. COORDINATE WITH OTHER SECTIONS.
- C. PROVIDE A REASONABLY SMOOTH PROFILE AT FENCE LINE. BOTTOM OF FENCE SHALL NOT BE MORE THAN 2" ABOVE FINISHED GRADE. IF FENCE CROSSES EXTREME GRADE DEPRESSION, CONFORM THE FENCE TO THE GROUND CONTOUR, UNLESS NOTED OTHERWISE. CLOSE SPACE BELOW THE BOTTOM OF THE FENCE WITH ADDITIONAL FENCE MATERIALS WHILE MAINTAINING A UNIFORM TOP.
- D. POST SPACING AND INSTALLATION
 - 1. INSTALL LINE POSTS AND BRACE AT EVENLY SPACED INTERVAL. LOCATE CORNER AND TERMINAL POSTS PER DRAWINGS. INSTALL CORNER POSTS WHERE CHANGES IN GRADE EXCEED 30 DEGREES.
 - 2. SET POSTS VERTICALLY IN CYLINDRICAL CONCRETE FOUNDATION IN ACCORDANCE WITH ASTM F567.
 - 3. TOP SURFACE OF THE CONCRETE FOUNDATION SHALL BE SMOOTH 1/2" CROWN, SLOPING AWAY FROM THE POST AND BE A MINIMUM OF 4" BELOW GRADE. THE POST SHALL BE 6" FROM THE BOTTOM OF THE CONCRETE POUR.
 - 4. HOLES MAY BE HAND AUGURED OR DRILLED. IF ROCK IS ENCOUNTERED, DRILL MIN. 12" FOR LINE POSTS AND 18" FOR CORNER, GATE, OR TERMINAL POSTS. DRILL HOLES 1" LARGER DIAMETER AND DEPTH OF FOUNDATION. IF SOLID ROCK IS BELOW SOIL OVERBURDEN, DRILL TO FULL DEPTH REQUIRED, EXCEPT PENETRATION INTO ROCK NEED NOT EXCEED MINIMUM DEPTHS SPECIFIED.

E. SETTING POSTS

- 1. REMOVE ANY LOOSE AND FOREIGN MATERIALS FROM THE SIDES AND BOTTOMS OF THE HOLES; MOISTEN SOIL PRIOR TO PLACING THE CONCRETE. CENTER AND ALIGN POSTS, TAMP TO CONSOLIDATE, AND SECURE UNTIL CONCRETE IS FULLY CURED.
- 2. KEEP CONCRETE SURFACES MOIST FOR AT LEAST 7 DAYS AFTER PLACEMENT
- 3. POSTS SET IN SLEEVED HOLES SHALL BE GROUTED IN PLACE USING A NON-SHRINK PORTLAND CEMENT GROUT APPROVED BY THE ENGINEER.

- 4. PRIOR TO PLACING COMPONENTS SUCH AS FABRIC, RAILS, TENSION WIRE, AND GATES, VERIFY THAT THE CONCRETE HAS REACHED AT LEAST 75% OF ITS DESIGN STRENGTH AS PRESCRIBED ON THE PLAN DETAILS, OR HAS CURED A MINIMUM OF 7 DAYS AFTER SETTING THE POSTS.

F. BRACING (CHAIN LINK FENCE ONLY)

- 1. INSTALL TENSION WIRES PARALLEL TO THE LINE OF FABRIC BY WEAVING NO LESS THAN 7 GA. WIRE OF THE APPROPRIATE TYPE THROUGH FABRIC AND TYING TO EACH POST. INSTALL TENSION WIRE BEFORE STRETCHING FABRIC.
- 2. INSTALL HORIZONTAL PIPE BRACE AT MID-HEIGHT ON EACH SIDE OF TERMINAL POSTS. FIRMLY ATTACH WITH FITTINGS. INSTALL DIAGONAL TRUSS RODS AT THESE POINTS. ADJUST TRUSS ROD, ENSURING POSTS REMAIN PLUMB.

G. INSTALLING FABRIC (CHAIN LINK FENCE ONLY)

- 1. INSTALL THE CHAIN LINK FENCE FABRIC SO THAT THE POSTS ARE ENCLOSED. STRETCH THE FABRIC TAUT, APPROXIMATELY 2" ABOVE THE GROUND, AND SECURELY TO THE POSTS.
- 2. CUT FABRIC AND ATTACH EACH SPAN INDEPENDENTLY AT ALL TERMINAL AND CORNER POSTS. USE STRETCHER BARS WITH FABRIC BANDS SPACED AT MAX. 5" INTERVALS TO FASTEN FABRIC TO TERMINAL POSTS. USE TIE WIRE, METAL BANDS, OR OTHER APPROVED MATERIAL ATTACHED AT MAXIMUM 15" INTERVALS TO FASTEN FABRIC TO LINE POSTS, TOP RAIL OR BOTTOM TENSION WIRE.

H. INSTALLING GATES

- 1. INSTALL GATES ACCORDING TO THE LOCATIONS, TYPE, AND SIZE INDICATED ON THE PLANS.
- 2. GATES SHALL BE BRACED AND TRUSSED TO PREVENT SAGGING, BUCKLING, AND WEAVING, AND COVERED WITH SAME FABRIC AS THE FENCE, UNLESS NOTED OTHERWISE. FIXED END RATCHET BANDS SHALL BE FURNISHED FOR FASTENING. FURNISH GATES WITH ALL FITTINGS AND HARDWARE REQUIRED. HEAVY DUTY COMMERCIAL LATCHES PROVIDED FOR USE WITH PADLOCK AND HINGES SHALL ALLOW 180 DEGREE SWING. PROVIDE 3/8" DIAMETER CROSSBRACING.
- 3. INSTALL GATES PLUMB, LEVEL, AND SECURE FOR THE FULL OPENING WITHOUT INTERFERENCES
- 4. INSTALL ALL ITEMS PER MANUFACTURER'S RECOMMENDATIONS. INSPECT ALL PARTS AND ATTACHMENTS FOR DEFECTS, AND INSTALL, LUBRICATE, AND ADJUST EQUIPMENT TO ENSURE SMOOTH OPERATION.
- 5. INSTALL (WELD TO GATE FRAME) (2) 8" SECTIONS (ONE PER GATE) OF 1/4" NOMINAL WELDED, GRADE 30 MINIMUM GALVANIZED STEEL CHAIN JUST BELOW LATCH FOR PADLOCKS. VERIFY INSIDE DIMENSIONS OF CHAIN LINK WILL RECEIVE STANDARD PADLOCKS.

I. MISCELLANEOUS INSTALLATION (CHAIN LINK FENCE)

- 1. USE U-SHAPED TIE WIRES, CONFORMING TO THE DIAMETERS OF PIPE, THAT CLASP THE PIPE AND FABRIC FIRMLY WITH ENDS TWISTED AT LEAST 2 FULL TURNS.
- 2. INSTALL NUTS FOR FASTENERS ON TENSION BANDS AND HARDWARE BOLTS ON THE SIDE OF THE FENCE OPPOSITE THE FABRIC. THE ENDS OF BOLTS, ONCE SECURE AND CHECKED FOR SMOOTH OPERATION, SHALL BE PEENED TO PREVENT REMOVAL OF NUTS.

3.2 PROTECTION:

- A. A GUARANTEE SHALL BE FURNISHED FOR ALL MATERIALS, INSTALLATION, AND WORKMANSHIP TO BE FREE OF DEFECTS FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. ANY DEFECT IN INSTALLATION OR WORKMANSHIP SHALL BE REPAIRED, AND/OR REPLACED WITHOUT COST TO THE OWNER.
- B. REPAIR COATINGS DAMAGED IN THE FIELD AS RECOMMENDED BY THE MANUFACTURER.

END OF SECTION

STAMP

PRELIMINARY ISSUE

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STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CS CHRISTOPHER GUANNOTTI	25673	CIVIL
FJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

APPLICANT

verizon

PLANS PREPARED FOR

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APPLICANT SITE NAME & SITE NUMBER

MTPL NEVADA RELHR
TBD

SITE ADDRESS

3751 NEVADA ROAD
OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
SPECIFICATIONS (5 OF 7)	SP-1.4

NEW/VM UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/WBBU
 ANTENNAS
 FIBER
 POWER & GROUNDING
 HYBRID & COAX CABLES

ELECTRICAL

PART 1: GENERAL

1.1 GENERAL CONDITIONS:

- A. THE CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.
- B. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.

1.2 LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:

- A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES.

1.3 REFERENCES:

- A. THE PUBLICATIONS LISTED BELOW FORM PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS NOTED OTHERWISE. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THESE PUBLICATIONS.

1. NEC (NATIONAL ELECTRICAL CODE)
2. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)
3. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)
4. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
5. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)
6. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
7. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
8. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
9. UL (UNDERWRITERS LABORATORIES, INC.)

1.4 SCOPE OF WORK:

- A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND ASSOCIATED SERVICES REQUIRED TO COMPLETELY CONSTRUCT AND LEAVE READY FOR OPERATION SYSTEMS AS SHOWN ON THE DRAWINGS AND HEREIN DESCRIBED.
- B. ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE CONTRACTOR.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.
- D. THE CONTRACTOR SHALL FURNISH TO THE OWNER, CERTIFICATES OF FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION.

PART 2: PRODUCTS

2.1 GENERAL:

- A. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE NEW, FREE FROM DEFECTS AND OF THE BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE.
- B. ALL MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.
- C. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
- D. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.

2.2 MATERIALS AND EQUIPMENT:

A. CONDUIT:

1. RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE HOT-DIP GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.
2. FLEXIBLE METAL CONDUIT SHALL BE GALVANIZED, ZINC-COATED STEEL, PVC COATED FOR OUTDOOR APPLICATIONS.
3. CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS SHALL BE COMPRESSION TYPE AND WATERTIGHT.
4. NON-METALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC, HEAVY-WALL RIGID WITH SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER.

B. WIRE AND CABLE:

1. WIRE AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, SIZES AS INDICATED, #12 AWG MINIMUM.
2. #10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
3. SOLDERLESS, PRESSURE-TYPE CONNECTORS CONSTRUCTED OF HIGH-STRENGTH, NON-CORRODIBLE, TIN-PLATED COPPER DESIGNED TO FURNISH HIGH-PULLOUT STRENGTH AND HIGH CONDUCTIVITY JOINTS SHALL BE USED.
4. SUPPORT GRIPS SHALL BE SINGLE WEAVE, CLOSED MESH, HIGH-GRADE, NON-MAGNETIC, TIN-COATED BRONZE CAPABLE OF SUPPORTING TEN TIMES THE CABLE DEAD WEIGHT, HUBBELL KELLEMS OR APPROVED EQUAL.

C. DISCONNECT SWITCHES:

1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, DEAD-FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCKED WITH COVER IN CLOSED POSITION, RATING AS INDICATED, UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE D CLASS 3110 OR APPROVED EQUAL.

D. SYSTEM GROUNDING:

1. GROUNDING CONDUCTOR SHALL BE SOLID TINNED BARE COPPER, SIZE AS INDICATED, EXCEPT ABOVE GROUND GROUNDING CONDUCTORS SHALL BE STRANDED INSULATED.
2. GROUND BUSES SHALL BE GALVANIZED STEEL BARS OF RECTANGULAR CROSS SECTION.
3. CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS.
4. EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
5. GROUND RODS SHALL BE COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE, 3/4" x 10'-0".

E. OTHER MATERIALS:

1. THE CONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.

STAMP



ENGINEERING LICENSE
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-671

ENGINEER	PE#	DISCIPLINE
KMY KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	16096	CIVIL
CG CHRISTOPHER GIANNOTTI	28673	CIVIL
PJD PATRICK J. DAVIS	25067	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL



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SUBMITTALS

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	09/30/23	AWD	A
REISSUED PER CLIENT COMMENTS	11/04/23	AWD	B

MLA SITE NAME
 STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER
 MTPL NEVADA RELHR
 TBD

SITE ADDRESS
 3751 NEVADA ROAD
 OTTAWA, KS 66067

SHEET DESCRIPTION	SHEET #
SPECIFICATIONS (6 OF 7)	SP-2.0

NEW/VOY UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/HBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES

PART 3: EXECUTION

3.1 GENERAL:

- A. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- B. EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

3.2 LABOR AND WORKMANSHIP:

- A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE DONE BY EXPERIENCED MECHANICS OF THE PROPER TRADES.
- B. ALL ELECTRICAL EQUIPMENT FURNISHED SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE CONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
- C. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

3.3 COORDINATION:

- A. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER—FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.

3.4 INSTALLATION:

A. CONDUIT:

1. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS HEREIN SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4" NOMINAL SIZE SHALL BE USED.
2. PROVIDE RGS CONDUIT FOR ALL EXPOSED, EXTERIOR CONDUIT.
3. PROVIDE SCHEDULE 40 PVC OR RGS CONDUIT BELOW GRADE, 1" MINIMUM, UNLESS NOTED OTHERWISE. ALL 90 DEGREE BENDS TO ABOVE GRADE SHALL BE RGS. MINIMUM BURIAL DEPTH SHALL BE 24" CLEAR TO TOP OF CONDUIT, UNLESS NOTED OTHERWISE.
4. USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION IS NOT DESIRABLE FOR REASONS OF EQUIPMENT MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUIDTIGHT, PVC COATED FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS.
5. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORTS TO ALLOW FOR EXPANSION AND CONTRACTION.
6. A RUN OF CONDUIT BETWEEN BOXES OR FITTINGS SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER-BENDS INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE BOX OR FITTING. THE RADIUS OF BENDS SHALL NEVER BE SHORTER THAN THAT OF THE CORRESPONDING TRADE ELBOW.
7. WHERE CONDUIT HAS TO BE CUT IN THE FIELD, IT SHALL BE CUT SQUARE WITH A PIPE CUTTER USING CUTTING KNIVES.
8. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF WIRE OR CABLE. CLEAR ALL BLOCKAGES AND REMOVE BURRS, DIRT, AND DEBRIS.
9. INSTALL PULL STRINGS IN ALL EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END WITH ITS DESTINATION.
10. PROVIDE INSULATED GROUNDING BUSHINGS FOR ALL CONDUITS STUBBED INTO EQUIPMENT ENCLOSURES OR STUBBED OUT FOR FUTURE USE BY OTHERS.
11. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. CONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
12. INSTALL 2" ORANGE DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUIT AND WIRE.
13. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.

B. WIRE AND CABLE:

- 1. ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:

DESCRIPTION	120/240V	208Y/120V	480Y/277V
PHASE A	BLACK	BLACK	BROWN
PHASE B	RED	RED	ORANGE
PHASE C		BLUE	YELLOW
NEUTRAL	WHITE	WHITE	GRAY
GROUND	GREEN	GREEN	GREEN

2. SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, OR ACCESSIBLE RACEWAYS WITH PRESSURE-TYPE CONNECTORS.
3. PULLING LUBRICANTS SHALL BE SOAPSTONE POWDER, POWDERED TALC, OR A COMMERCIAL PULLING COMPOUND. NO SOAP SUDS, SOAP FLAKES, OIL, OR GREASE SHALL BE USED, AS THESE MAY BE HARMFUL TO CABLE INSULATION. CONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CABLE TO AVOID SCORING THE CONDUIT.
4. CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING, AND BE OF SUFFICIENT LENGTH IN ALL BOXES, EQUIPMENT, ETC. TO PERMIT MAKING A NEAT ARRANGEMENT. CABLES SHALL BE SECURED IN A MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS, AND SHALL BE PROTECTED FROM MECHANICAL INJURY AND FROM MOISTURE. SHARP BENDS OVER CONDUIT BUSHINGS ARE PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

C. DISCONNECT SWITCHES:

1. INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUND AS INDICATED.

D. GROUNDING:

1. ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
2. PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEMS INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
3. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES.
4. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL 486A TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
5. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
6. ALL GROUND CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC-WELDED CONNECTIONS SHALL BE APPROVED BY THE CONSTRUCTION INSPECTOR BEFORE BEING PERMANENTLY CONCEALED.
7. APPLY CORROSION-RESISTANT FINISH TO FIELD CONNECTIONS, AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE COPPER-BASED "NO-OX" OR APPROVED EQUAL.
8. A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS
9. BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE #8 AWG GROUNDING CONDUCTOR TO A GROUND BUS OR GROUNDING LUG IN ENCLOSURE.
10. DIRECT BURIED GROUND CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 30" BELOW GRADE, UNLESS NOTED OTHERWISE.
11. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSULATED OR INSTALLED IN PVC CONDUIT.
12. INSTALL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHER HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE.
13. DRIVE GROUND RODS UNTIL TOPS ARE 30" BELOW FINAL GRADE.
14. GROUNDING CONDUCTOR TO EQUIPMENT GROUND LUGS:
 - a. BOLTED TO EQUIPMENT HOUSING WITH STAINLESS STEEL BOLTS AND LOCK WASHERS.
 - b. ALL EQUIPMENT TO BE GROUNDED SHALL BE FREE OF PAINT OR ANY OTHER MATERIAL COVERING BARE METAL AT THE POINT OF CONNECTION.

3.5 ACCEPTANCE TESTING:

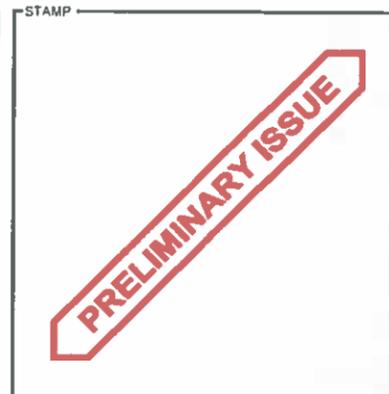
- A. PROVIDE PERSONNEL AND EQUIPMENT, MAKE REQUIRED TESTS, AND SUBMIT TEST REPORTS UPON COMPLETION OF TESTS.
- B. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NONCOMPLYING ITEMS SHALL BE REMOVED FROM THE JOBSITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE OF SUCH NON-COMPLIANCE.

C. TEST PROCEDURES:

1. ALL FEEDERS SHALL HAVE THEIR INSULATION TESTED AFTER INSTALLATION, BUT BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. INVESTIGATE ANY VALUES LESS THAN 50 MEGAOHMS.
2. PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
3. MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE WIRES AND NEUTRALS. SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES.
4. PERFORM GROUND TEST TO MEASURE GROUND RESISTANCE OF GROUNDING SYSTEM USING THE IEEE STANDARD 3-POINT "FALL-OF-POTENTIAL" METHOD. PROVIDE PLOTTED TEST VALUES & LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.

END OF SECTION

END OF SPECIFICATION



ENGINEERING LICENSE

STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER	PE#	DISCIPLINE
KMV KEVIN M. VANMAELE	22105	CIVIL
REJ ROBERT E. JENSEN	18098	CIVIL
CD CHRISTOPHER GIANNOTTI	28873	CIVIL
PJO PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13854	ELECTRICAL
DJW DAVID J. WALDRON	31220	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL



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SUBMITTALS

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	09/30/25	AWD	A
REISSUED PER CLIENT COMMENTS	11/04/25	AWD	B

MLA SITE NAME

STC202-KS NEVADA HRR

APPLICANT SITE NAME & SITE NUMBER

**MTPL NEVADA RELHR
TBD**

SITE ADDRESS

**3751 NEVADA ROAD
OTTAWA, KS 66067**

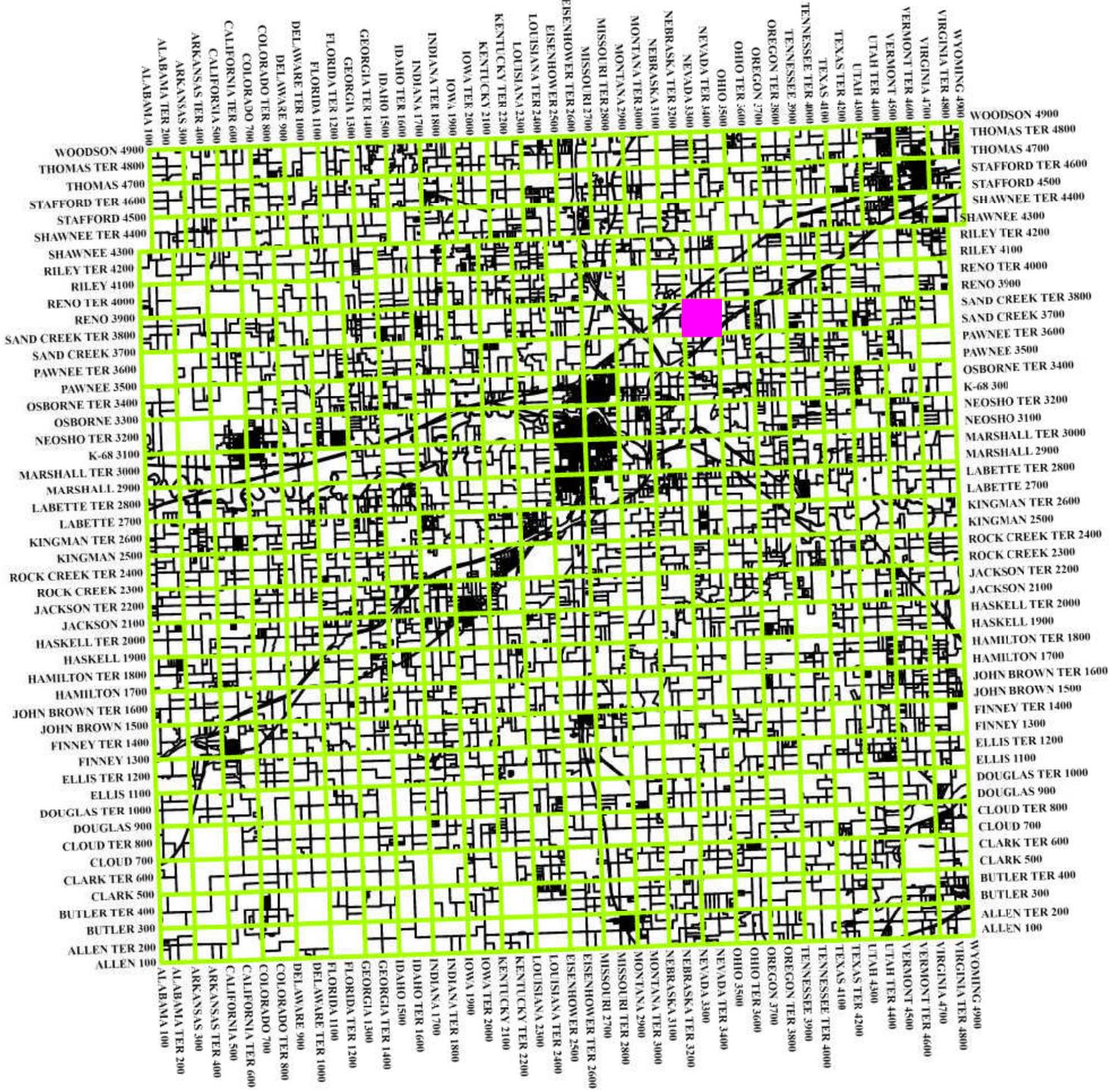
SHEET DESCRIPTION

**SPECIFICATIONS
(7 OF 7)**

SHEET #

SP-2.1

SELECTIVE SITE CONSULTANTS COUNTYWIDE MAP



Selective Site Consultants Road Surface & Floodplain Map

ROAD SURFACE

- PAVED ROAD
- MIN. MAINT.
- GRAVEL

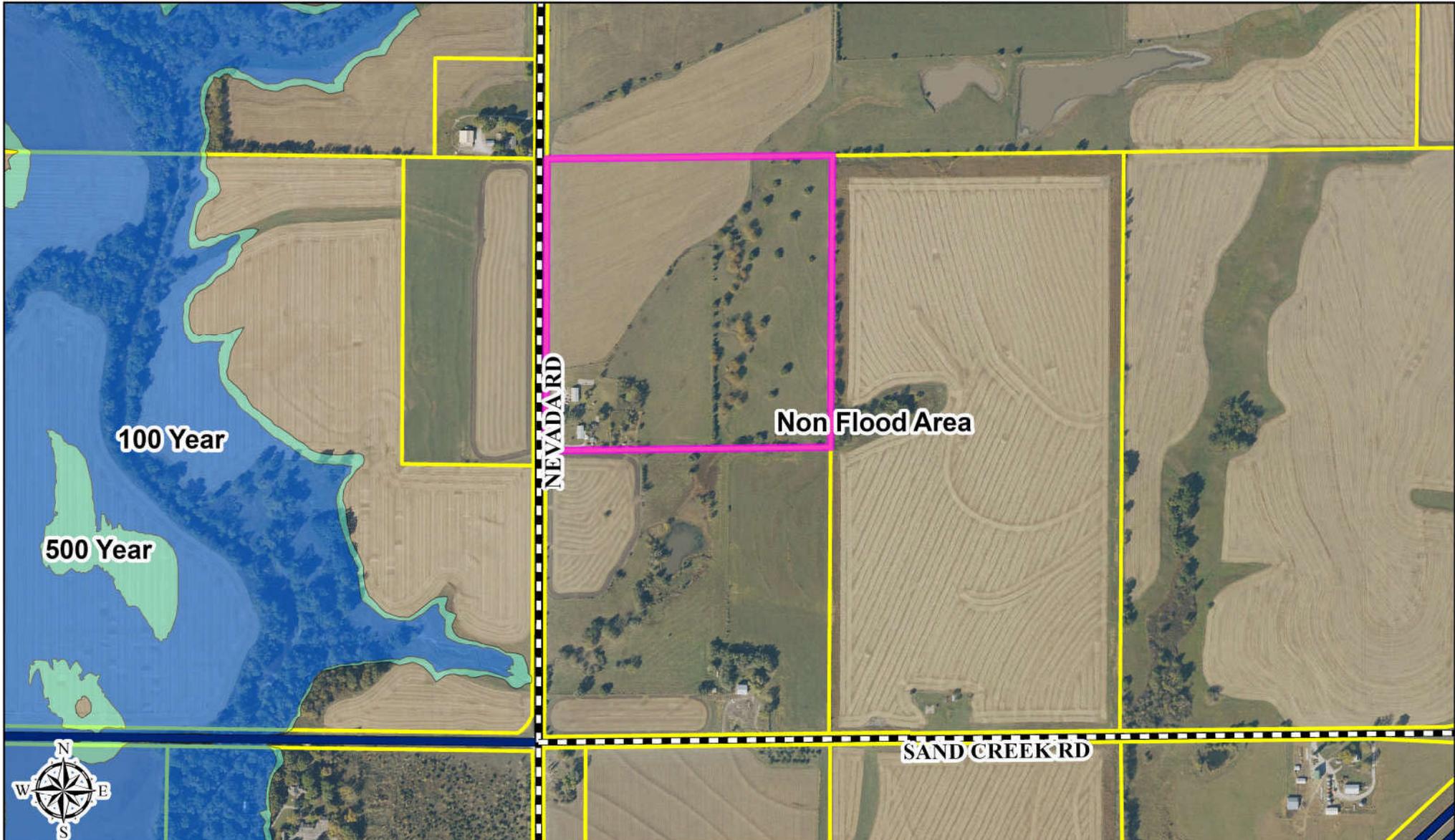
ROAD_SURFA

- Private Drive

Flood_Year_2022

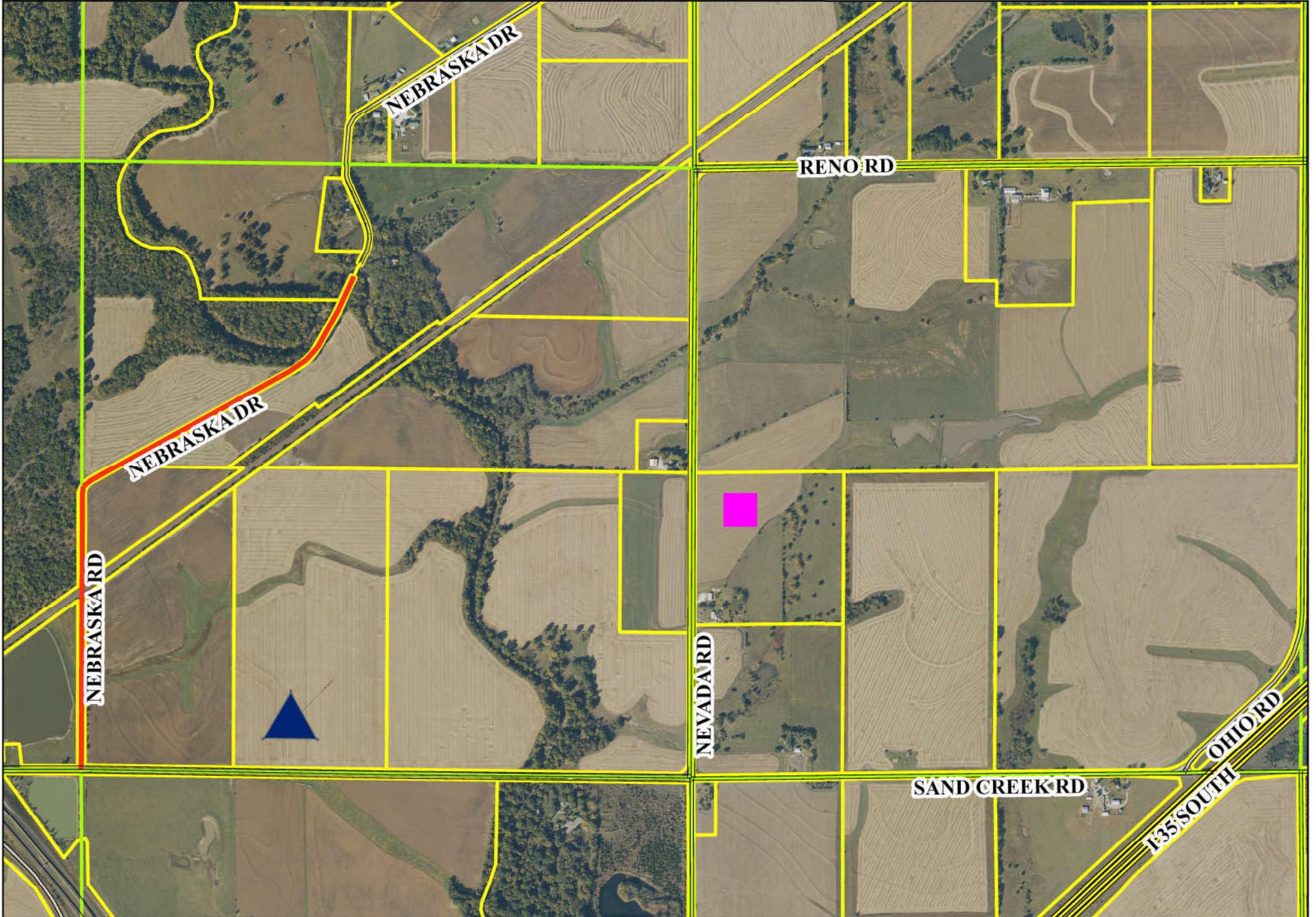
- 500 Year
- Non Flood Area

- Reduced Flood Risk due to Levee
- 100 Year
- Floodway



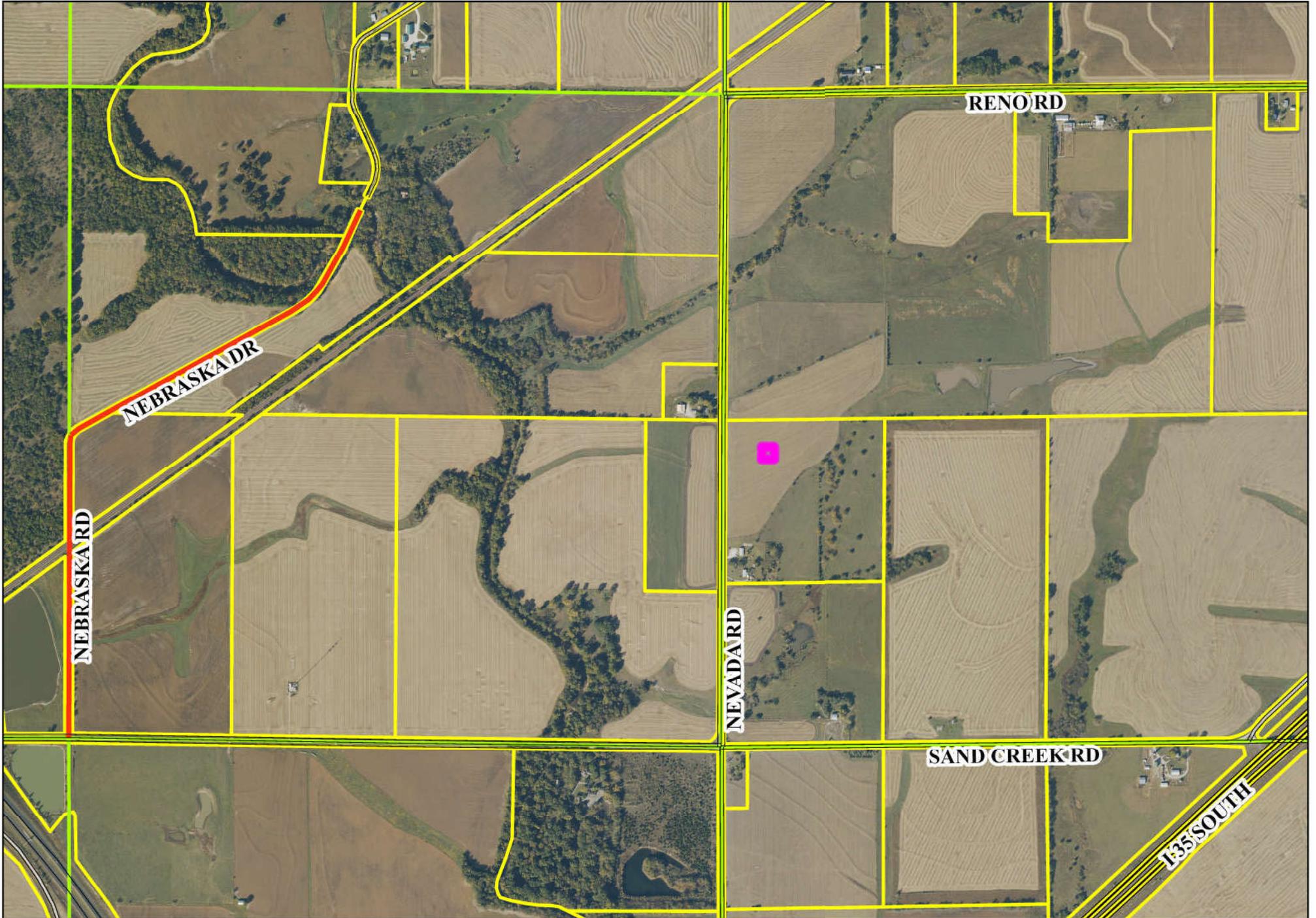
SELECTIVE SITE CONSULTANTS AERIAL PHOTO

 Approximate Location of New Tower  Communication Towers



SELECTIVE SITE CONSULTANTS AERIAL PHOTO

Approximate location of new tower





**Board of County Commissioners
Franklin County, Kansas**

Resolution 26-

**A RESOLUTION APPROVING SPECIAL USE PERMIT APPLICATION #2511-0011
(SELECTIVE SITE CONSULTANTS) TO ALLOW CONSTRUCTION, OPERATION AND
MAINTENANCE OF A 305-FOOT HIGH TELECOMMUNICATION TOWER IN AN A-1
(AGRICULTURE) ZONING DISTRICT**

WHEREAS Franklin County, Kansas is a county municipal government, organized pursuant to K.S.A. 19101; and

WHEREAS The Franklin County Board of County Commissioners did adopt Resolution # 23-91 creating the Franklin County Planning Commission as provided in K.S.A. 12-744; and

WHEREAS the Franklin County Planning Commission did publish notice on November 26, 2025 that public hearing would be held to consider Special Use Permit application #2511-0011 (Selective Site Consultants) as required by K.S.A. 12757 and Article 23, Section 23-5.02 of the Franklin County Zoning Regulations; and

WHEREAS the Planning Commission did on December 18, 2025 hold a public hearing for the consideration of Special Use Permit Application #2511-0011 (Selective Site Consultants) to allow for the construction, operation and maintenance of a 305-foot high telecommunication tower in an A-1 (Agriculture) Zoning District; and

WHEREAS the Franklin County Board of County Commissioners did adopt Zoning Regulations on August 14th, 2002 which included Article 23, Section 23-1 through 23-5 setting out the procedures and basis for review in considering a Special Use Permit including the following criteria:

- a. Whether the use is in compliance with, and would further enhance the implementation of, the adopted Comprehensive Plan.
- b. Whether the use complies with the purpose and intent of the adopted Zoning Regulations.
- c. Whether the use complies with other adopted standards of the County.
- d. Whether the use fits the character of the neighborhood
- e. Whether the use would be unduly detrimental to surrounding properties and uses.
- f. The suitability of the subject property for the proposed use.
- g. Approval of mitigation measures to minimize impacts to surrounding properties or services; and

WHEREAS, the Planning Commission, after due consideration of the criteria set forth in Article 23, Section 23-5.04 of the County Zoning Regulations, the relative factors of the Supreme Court case of Golden vs. City of Overland Park, together with all written reports and public testimony, the Planning Commission, by majority of its membership present did find the following:

1. That the Special Use Permit is consistent with the County Zoning Regulations
2. That the Special Use Permit is in conformance with, and would further enhance, the County Comprehensive Plan
3. That, as conditioned, the Special Use Permit will not overburden the County roads and other public services.
4. That, as conditioned, the Special Use Permit will not unduly affect the character of the surrounding community.
5. That, as conditioned, the Special Use Permit will not impact property values of the surrounding properties.
6. That, as conditioned, the Special Use Permit will comply with all other County Codes and Regulations
7. That the subject property is suitable for the proposed use.

NOW, THEREFORE, Be It Resolved, that the Franklin County Board of County Commissioners does hereby approve Special Use Permit Application #2511-0011 (Selective Site Consultants) as follows:

Section 1: Special Use Permit #2511-0011 (Selective Site Consultants) is granted for the following described property:

NW ¼ of the SW ¼ of Sec. 16, Twp. 16, Rng. 20, Franklin County, Kansas.

Section 2: The Special Use Permit for the real property described above shall be authorized for the construction, operation and maintenance of a 305-foot high telecommunication tower in an A-1 (Agriculture) Zoning District pursuant to the Franklin County Zoning Regulations and subject to the following conditions:

1. That the tower base be enclosed with a 70'x70' chain link fence with security barbed wire. Access to the enclosed area shall be locked at all times except when being used by company employees.
2. That lighting on the tower shall be in compliance with Federal Aviation Administration lighting standards.
3. That the communication facilities comply with all requirements of the Federal Communication Commission.
4. That a sign be placed on the security fence around the tower base to include a telephone number of a responsible party in the event of an emergency.
5. That the tower base and access easement be kept free of noxious weeds, litter and debris.
6. That the tower and related facilities comply with the County Building Codes and Permits.
7. Two (2) on-site parking spaces shall be provided and maintained on an all-weather surfaced area in accordance with the standards set forth in Article 21 of the County Zoning Regulations.
8. That the tower be located 310 feet from any property line or buildings.
9. The location of the entrance must be approved through the Public Works Department.
10. That the Special use permit shall be null and void by operation of law if said permit has not been initiated and utilized by commencing the activity or use at the site specified in said permit within one (1) year of the date of approval.

PASSED AND ADOPTED by the Franklin County Board of County Commissioners this 7th day of January 2026. This action shall become effective upon publication in the official county newspaper.

Rodney L. Harris
Chair

Received and recorded this 7th day of January 2026.

Janet Paddock
County Clerk



**Board of County Commissioners
Franklin County, Kansas**

Resolution 26-

**A RESOLUTION DENYING SPECIAL USE PERMIT APPLICATION #2511-0011
(SELECTIVE SITE CONSULTANTS) TO ALLOW CONSTRUCTION, OPERATION AND
MAINTENANCE OF A 305-FOOT HIGH TELECOMMUNICATION TOWER IN AN A-1
(AGRICULTURE) ZONING DISTRICT**

WHEREAS Franklin County, Kansas is a county municipal government, organized pursuant to K.S.A. 19101; and

WHEREAS The Franklin County Board of County Commissioners did adopt Resolution # 23-91 creating the Franklin County Planning Commission as provided in K.S.A. 12-744; and

WHEREAS the Franklin County Planning Commission did publish notice on November 26, 2025 that public hearing would be held to consider Special Use Permit application #2511-0011 (Selective Site Consultants) as required by K.S.A. 12757 and Article 23, Section 23-5.02 of the Franklin County Zoning Regulations; and

WHEREAS the Planning Commission did on December 18, 2025 hold a public hearing for the consideration of Special Use Permit Application #2511-0011 (Selective Site Consultants) to allow for the construction, operation and maintenance of a 305-foot high telecommunication tower in an A-1 (Agriculture) Zoning District; and

WHEREAS the Franklin County Board of County Commissioners did adopt Zoning Regulations on August 14th, 2002, which included Article 23, Section 23-1 through 23-5 setting out the procedures and basis for review in considering a Special Use Permit including the following criteria:

WHEREAS, the Planning Commission, after reviewing and considering all reports and testimonies did, by a majority vote of those present, approved said Special Use Permit Application based on certain findings and subject to certain conditions; and

WHEREAS, the Board of County Commissioners of Franklin County, after duly reviewing the recommendation of the Planning Commission together with all public comments for and against said Special Use Permit Application finds:

1. That the Special Use Permit is not consistent with the County Zoning Regulations.
2. That the Special Use Permit is not in conformance with and would further enhance the County Comprehensive Plan.
3. The Special Use Permit could overburden the County roads and other public services.
4. The Special Use Permit will unduly affect the character of the surrounding community.

5. The Special Use Permit could unduly impact property values of surrounding properties.
6. The subject property is not suitable for the proposed use.

NOW, THEREFORE, Be It Resolved, that the Franklin County Board of County Commissioners does hereby deny Special Use Permit #2511-0011 (Selective Site Consultants) to allow construction, operation and maintenance of a 305-foot high telecommunication tower in an A-1 (Agriculture) Zoning District.

PASSED AND ADOPTED by the Franklin County Board of County Commissioners this 7th day of January 2026. This action shall become effective upon publication in the official county newspaper.

Rodney L. Harris
Chair

Received and recorded this the 7th day of January 2026.

Janet Paddock
County Clerk