



COUNTY OF BECKER

Planning and Zoning

915 Lake Ave, Detroit Lakes, MN 56501
Phone: 218-846-7314 ~ Fax: 218-846-7266

PLANNING COMMISSION NOTICE OF PUBLIC HEARING

****HEARING DATE AND LOCATION****

March 25th, 2026 @ 6:00 P.M.

****3RD FLOOR JURY ASSEMBLY ROOM – BECKER COUNTY COURTHOUSE****

APPLICANT: Vertical Bridge on behalf of Justin Aschnewitz
39600 St Hwy 87
Frazee, MN 56544

Project Location: 40789 & 40545 St Hwy 87
Frazee, MN 56544

APPLICATION AND DESCRIPTION OF PROJECT:

Request a Conditional Use Permit for a two hundred and sixty (260) foot guyed tower with a nine (9) foot lightening rod.

LEGAL LAND DESCRIPTIONS: Tax ID Numbers: **29.0149.000 & 29.0149.001** Section 24 Township 138 Range 039; 24-138-039 SE1/4 LESS HWY & LESS W 500' OF N 1375.50' OF SE1/4 AKA 15 AC & 24-138-039 WEST 500' OF NORTH 1375.50' OF SE1/4 AKA TRACT A; Silver Leaf Township

REFER TO BECKER COUNTY ZONING ORDINANCE

Replies/Comments:

Public testimony regarding this application will only be received by email, in writing, or in-person at the hearing. Interested parties are invited to submit to the Becker County Department of Planning and Zoning written facts, arguments, or objectives by 12:00 P.M. the date of the Hearing. These statements should bear upon the suitability of the location and the adequacy of the Project and should suggest any appropriate changes believed to be desirable.

Replies may be addressed to:

PLANNING AND ZONING DEPARTMENT
915 Lake Avenue
Detroit Lakes, MN 56501

EMAIL: nicole.bradbury@co.becker.mn.us

To view all application information on this project please visit:

http://www.co.becker.mn.us/government/meetings/planning_zoning/planning_commission/

If you have questions about the Project, feel free to call 218-846-7314.

Jurisdiction: This Project comes under the Regulatory Jurisdiction of the Becker County Zoning Laws.

Regulatory Authority: This Application will be reviewed according to the provisions of the Becker County Zoning Ordinance. The decision whether to issue a Permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity. That decision will reflect the concern for both protection and utilization of important resources. All factors which may be relevant to the proposal will be considered including the cumulative effects: Land Use, Shoreline Protection, Water Supply and Conservation, Safety, Economics, in General, the Needs and Welfare of the People.

Conditional Use Application Review

Permit # CUP2026-155

Property and Owner Review

| | |
|--|--|
| Owner: Justin Aschnewitz | Parcel Number(s): 290149000 290149001 |
| Mailing Address: 39600 St Hwy 87 Frazee, MN 56544 | Site Address: 40789 & 40545 St Hwy 87 Frazee, MN 56544 |
| | Township-S/T/R: SILVER LEAF-24/138/039 |
| | Shoreland? No Name: |

Legal Descr: 24-138-039 SE1/4 LESS HWY & LESS W 500' OF N 1375.50' OF SE1/4 AKA 15 AC

Conditional Use Details Review

Description of Conditional Use Request: **The applicant is requesting a Conditional Use Permit to construct and operate a wireless communications tower on a rural parcel in Becker County. The facility is needed to improve wireless coverage, network reliability, and emergency communication capabilities in the surrounding area. The tower will occupy a small leased compound and will be designed to meet all applicable zoning, safety, and setback requirements. This request supports the continued development of modern telecommunications infrastructure while maintaining compatibility with existing land uses in the area.**

1. Describe how the conditional use permit, if granted, will not harm the use and enjoyment of other properties in the immediate vicinity for the purposes already permitted, nor substantially diminish or impair property values within the immediate vicinity.

The proposed communications tower will not negatively affect the use, enjoyment, or value of surrounding properties. The structure is located on a rural parcel with low residential density, and the tower site has been positioned to maximize distance from nearby homes and active land uses. All required setbacks, fall-zone clearances, and safety standards will be fully met or exceeded, ensuring that the tower does not interfere with existing agricultural, residential, or recreational activities in the area.

The tower produces no noise, odor, traffic, or emissions that would impact neighboring properties. Its operational footprint is minimal, with only occasional maintenance visits and no ongoing activity that would alter the character of the surrounding land. Modern monopole and self-supporting tower designs also reduce visual impact compared to older lattice structures, and the facility will include neutral-colored finishes to blend with the natural environment.

Independent studies and industry data consistently show that properly sited wireless towers do not diminish property values when located in rural areas with adequate setbacks. In many cases, improved wireless coverage is viewed as a community benefit that enhances safety, economic activity, and connectivity. Given the tower's rural location, compliance with all zoning standards, and minimal operational impacts, the proposed use will not impair property values or the enjoyment of nearby properties.

2. Describe how establishing the conditional use will not impede the normal, orderly development and improvement of surrounding vacant property for uses predominant in the area.

The proposed communications tower will not impede the normal or orderly development of surrounding vacant properties. The tower site is located on a rural parcel where agricultural, forestry, and low-density residential uses are predominant. These land uses are not sensitive to the minimal footprint or operational characteristics of a wireless communications facility. The tower occupies only a small leased area, and the remainder of the parcel remains available for its existing and future permitted uses.

3. Describe how adequate utilities, access roads, drainage and other necessary facilities have been or are being provided.

Adequate utilities, access, and site infrastructure are available to fully support the proposed communications tower. The facility requires only minimal electrical service, which will be provided through an existing nearby utility connection without the need for new public infrastructure. No water, sewer, or other municipal utilities are required for tower operation.

Access to the site is provided by an existing driveway or private access road that can accommodate occasional maintenance vehicles without generating additional traffic or requiring improvements to public roads. The tower compound will include a gravel surface and appropriate grading to ensure proper drainage.

**Stormwater will be managed on-site through natural infiltration, and no runoff will be directed toward adjacent properties or public rights-of-way.
Because the tower is a low-impact, low-demand utility structure, it does not require additional public services or infrastructure upgrades.**

4. Describe how adequate measures have been or will be taken to provide sufficient off-street parking and loading space to serve the proposed use.

N/A

5. Describe how adequate measures have been or will be taken to prevent or control offensive odor, fumes, dust, noise and vibration, so none of these will constitute a nuisance, and to control lighted signs and other lights so that no disturbance to neighboring properties will result.

The proposed communications tower is a passive utility structure and does not generate odor, fumes, dust, or vibration during normal operation. The facility contains no combustion sources, processing equipment, or mechanical systems that would emit pollutants or create nuisance conditions. Construction activities will be temporary and limited in duration, and standard best management practices—such as dust suppression, erosion control, and proper equipment maintenance—will be used to minimize short-term impacts.

Operational noise is negligible. The tower does not include fans, generators, or other continuously running equipment. Any backup power system, if installed, will be fully enclosed and used only during rare emergency outages or periodic testing, consistent with county noise standards. These activities will not create noise levels that would disturb neighboring properties.

Lighting will comply with FAA requirements, if applicable, and will be limited to the minimum intensity and number of fixtures necessary for aviation safety.

Additional shoreland questions below (if applicable)

6a. Describe how adequate measures have been or will be taken to assure that soil erosion or other possible pollution of public waters will be prevented, both during and after construction.

6b. What measures have been taken to assure that the visibility of structures and other facilities as viewed from public waters will be limited.

6c. What measures have been taken to assure that the site is adequate for water supply and on-site sewage treatment.

6d. Describe how the types, uses and number of watercrafts that the project will generate can be safely accommodated.

Business Plan Review

Name of Business:

Business Owners:

Business Type: If 'Other', explain:

Type of Merchandise:

Type of Service:

Hours and Days of Operation:

Number of Employees:

Off-Street Parking Plan:

Size of structure to be used for Business:

New or Existing:

Signage Plan:

Exterior Lighting Plan:

Known Environmental Hazards:

Additional Business Plan Information:

PROJECT DESCRIPTION:

CONSTRUCTION OF TELECOMMUNICATIONS AND PUBLIC UTILITY FACILITY CONSISTING OF CELL TOWER, SPACE FOR CARRIER EQUIPMENT, AND A UTILITY BACKBOARD WITHIN A FENCED COMPOUND. NO WATER OR SEWER IS REQUIRED. THIS WILL BE AN UNMANNED FACILITY.

CODE COMPLIANCE:

- INTERNATIONAL BUILDING CODE
- NATIONAL ELECTRIC CODE
- NFPA101 LIFE SAFETY CODE
- IFC
- AMERICAN COMPOSITE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 13TH EDITION
- MANUAL OF STEEL CONSTRUCTION, 13TH EDITION
- AWC 607/EN-222
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST EDITION
- TELECORDIA GR-1275
- ANSI/ASME Y31 MECHANICAL CODE
- UNIFORM PLUMBING CODE
- LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES
- STATE BUILDING CODE



THE TOWERS LLC

US-MN-5477

SPRUCE

ST HWY 87

FRAZEE, MN 56544

260' GUYED TOWER



10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
CONSTRUCTION DEPT. (952) 946-4700

SITE NAME: MN05 SPRUCE

MDG: 5000366246

FUZE PROJECT ID: 25431337

PREPARED FOR:
verticalbridge
THE TOWERS, LLC
22 WEST ATLANTIC AVENUE, SUITE 310
DELRAY BEACH, FL 33444



PROJECT INFORMATION

| | |
|------------------------------|-------------------------------|
| VERTICAL BRIDGE SITE NUMBER: | US-MN-5477 |
| VERTICAL BRIDGE SITE NAME: | SPRUCE |
| VERTICON SITE NAME: | MN05 SPRUCE |
| VERTICON MDG: | 5000366246 |
| VERTICON FUZE PROJECT ID: | 25431337 |
| SITE ADDRESS: | ST HWY 87 FRAZEE, MN 56544 |
| COUNTY: | BECKER |
| LATITUDE (DECIMAL): | N 46° 75'17.9" |
| LONGITUDE (DECIMAL): | W 95° 55'05.13" |
| LATITUDE (DMS): | N 46° 45' 04.24" |
| LONGITUDE (DMS): | W 95° 33' 01.65" |
| GROUND ELEVATION: | 1451.17 ANSL |
| STRUCTURE TYPE: | GUYED TOWER |
| STRUCTURE HEIGHT: | 260' AGL |
| OVERALL HEIGHT: | 360' AGL |
| RFDS FORM DATED: | 11-10-2025 |

SHEET INDEX

| SHEET | SHEET DESCRIPTION |
|------------|--|
| T-1-T-2 | PROJECT TITLE SHEET & GENERAL NOTES |
| - | SURVEY |
| A-1 | OVERALL SITE PLAN AND TOWER ELEVATION |
| A-2 | ENLARGED SITE PLAN |
| A-3, A-3.2 | SITE PREP & GRADING NOTES AND DETAILS |
| A-4-A-5 | FENCE DETAILS |
| A-6 | SIGN DETAILS |
| A-7 | MISC. DETAILS |
| A-8 | SITE PHOTOS |
| G-1-G-4 | GROUNDING NOTES, PLAN AND DETAILS |
| U-1-U-2 | SITE UTILITY PLANS, DETAILS AND NOTES |
| VZWA-A-1 | VERTICON SITE PLAN |
| VZWA-A-2 | RFDS INFO, MOUNTING DETAIL AND ONE-LINE DIAGRAM |
| VZWA-A-3 | CABINET AND BASE EQUIPMENT DETAILS |
| VZWA-A-4 | CABLE ICE BRIDGE, GFS AND MISC. DETAILS |
| VZWA-A-5 | GENERATOR DETAILS |
| VZWA-G-1 | VERTICON GROUNDING PLAN |
| VZWA-G-2 | VERTICON GROUNDING DETAILS AND NOTES |
| VZWA-U-1 | VERTICON UTILITY PLAN, DETAILS AND NOTES |
| VZWA-U-2 | CONDUIT ROUTING PLAN AND ONE-LINE ELECTRIC DIAGRAM |

ISSUE SUMMARY

| REV | DESCRIPTION | SHEET/DETAIL |
|-----|-------------------|--------------|
| A | ISSUED FOR REVIEW | ALL |
| B | ISSUED FOR REVIEW | ALL |

CONTACTS

| PROPERTY OWNER: | JUSTIN ASCHNEWITS 29600 ST HWY 87, FRAZEE, MN 56544 C/O THE TOWERS, LLC 22 WEST ATLANTIC AVENUE, SUITE 310 DELRAY BEACH, FL 33444 (405) 952-0069 |
|--------------------------------|--|
| LESSOR / LICENSOR: | THE TOWERS, LLC 22 WEST ATLANTIC AVENUE, SUITE 310 DELRAY BEACH, FL 33444 (405) 952-0069 |
| LESSEE: | VERTICON WIRELESS 10801 BUSH LAKE ROAD BLOOMINGTON, MN 55438 CONSTRUCTION DEPT. (952) 946-4700 |
| POWER UTILITY COMPANY CONTACT: | LAKE REGION ELECTRIC COOPERATIVE 1401 SOUTH BROADWAY P.O. BOX 543 PELICAN RAPIDS, MN 56672 (800) 552-7859 |
| TELCO UTILITY COMPANY CONTACT: | ARVIG 360 US-10 FRAZEE, MN 56501 (877) 294-6969 |
| DESIGNER: | DESIGN 1 OF EDEN PRAIRIE 9573 VALLEY VIEW ROAD EDEN PRAIRIE, MN 55344 (952) 903-9299 |
| STRUCTURAL ENGINEER (TOWER): | T.B.D. |
| SITE ACQUISITION: | BUELL CONSULTING, INC. 720 MAIN ST, SUITE 200 ST. PAUL, MN 55116 |

DRAWING APPROVALS

| JOB TITLE | NAME | DATE |
|------------------------|------|------|
| VERTICAL BRIDGE | | |
| RF ENGINEER | | |
| CONSTRUCTION ENGINEER | | |
| TRANSPORT ENGINEER | | |
| EQUIPMENT ENGINEER | | |
| REAL ESTATE SPECIALIST | | |



PROJECT:
US-MN-5477
FUZE ID: 25431337

US-MN-5477
SPRUCE

ST HWY 87
FRAZEE, MN 56544

SHEET CONTENTS:
PROJECT DESCRIPTIONS
PROJECT FINANCE
VICINITY MAP
SHEET INDEX
ISSUE SUMMARY
DRAWING APPROVALS
CONTACTS

DRAWN BY:
CHECKED BY:
REV. A: 02-23-2025
REV. B: 02-26-2025

T-1

CALL 811 FOR UNDERGROUND UTILITIES PRIOR TO DIGGING EMERGENCY...CALL 911

CONTRACTOR NOTES

VERTICAL BRIDGE TIMELINE EXPECTATIONS

- ONCE NTP HAS BEEN ISSUED, CONTRACTOR HAS (3) BUSINESS DAYS TO PROVIDE A SCHEDULE TO VERTICAL BRIDGE CONSTRUCTION MANAGER AND PROJECT MANAGER.
- CONSTRUCTION STARTS WITHIN 7 DAYS OF NTP RECEIPT.
- DAILY SITE UPDATES WITH PHOTOS ARE REQUIRED.
- TOWER STACKED (OTHER) WITHIN 28 DAYS OF NTP RECEIPT.
- CLOSEDOUT APPROVAL WITHIN 60 DAYS OF NTP RECEIPT.

VERTICAL BRIDGE CM NOTES

AND EVERY 300' (OR AT ANY BEND) WITH 2" CONDUIT FOR THE UT FIBER PER THE CONSTRUCTION DRAWINGS. MARK HAND-HOLES LIT FIBER.

B. CONTRACTOR SHALL SUPPLY AND INSTALL A SEPARATE HAND-HOLE AT THE ROW, AT THE COMPOUND DRAWINGS. MARK HAND-HOLES LIT FIBER.

C. FIBER TO FOLLOW ACCESS ROAD TO ROW ADJACENT TO THE TOWER.

D. CONTRACTOR TO PROVIDE AND INSTALL GASLOW EXPANSION JOINT CONNECTIONS AT CABINETS/SHELTER LOCATION PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

E. CONTRACTOR SHALL PROVIDE 2" SIPR-11 HOPE CONDUIT FOR FIBER CONDUIT AS NOTED ON DRAWINGS WHEN DIRECTIONAL BORING IS UTILIZED.

10.00 VERIZON CIVILS
A. CONTRACTOR SHALL PROVIDE LUMP SUM FEE FOR ALL VERIZON LINE ITEMS UNDER TENANT CIVILS ON BID DOCUMENT. THIS INCLUDES SET AND CONNECTIONS OF VERIZON'S EQUIPMENT/GENERATOR PADS, FUEL TANKS, EQUIPMENT/GENERATOR ELECTRICAL, TELCO/FIBER CONDUITS, EQUIPMENT GROUNDING AND ICE BRIDGE.

11.00 VERIZON ANTENNA MOUNT(S)
A. CONTRACTOR SHALL PROVIDE SEPARATE LINE ITEM FOR ANTENNA MOUNT INSTALLATION UNDER TENANT MOUNT. CONTRACTOR SHALL ORDER THE ANTENNA MOUNT AND CONFIRM THE ITEM DESCRIPTION THROUGH VERIZON.

B. CONTRACTOR WILL BE REQUIRED TO ORDER ANTENNA MOUNT ASAP TO AVOID ANY DELAYS TO STACK THE TOWER.

VERIZON CONSTRUCTION SCOPE OF WORK:
1.00 VERIZON ANTENNA AND LINES
A. CONTRACTOR SHALL PROVIDE A LUMP SUM FEE IN "TENANT L&A" FOR THE INSTALL OF VERIZON L&A INCLUDING ANY REQUIRED TESTING AND MATERIALS AS DIRECTED BY VERIZON PERSONNEL FOR A TYPICAL MARKET COLLOCATION.

2.00 CIVILS
A. CONTRACTOR SHALL PROVIDE A LUMP SUM FEE IN "TENANT CIVILS" FOR ALL VERIZON CIVIL WORK INCLUDING EQUIPMENT/GENERATOR PADS AND EQUIPMENT SUPPORTS (I.E. PLUMBS ETC.), CARRIER GROUNDING, ELECTRICAL CONDUITS & CONDUCTORS AND H-FRAME EQUIPMENT SET AS WELL AS ALL SERVICES AND/OR MATERIALS AS DIRECTED BY VERIZON FOR A TYPICAL MARKET COLLOCATION.

3.00 MOUNTS
A. CONTRACTOR SHALL PROVIDE A LUMP SUM FEE IN "TENANT MOUNT" FOR PROVIDING THE MOUNT ONLY (PRICE OF MOUNT INSTALLATION TO BE INCLUDED IN "TENANT L&A").

4.00 STARTUP COMMISSIONING
A. CONTRACTOR SHALL PROVIDE LUMP SUM FEE UNDER BID CLARIFICATION/EXCEPTIONS SECTION FOR COMMISSIONING AND START-UPS (AS REQUIRED BY "STANDARD VERIZON INSTALL"). VERIZON IS RESPONSIBLE FOR PAYMENT OF THESE SERVICES.

5.00 VERIZON POWER SERVICE
A. CONTRACTOR/VERIZON CM RESPONSIBLE FOR SETTING UP VERIZON'S POWER ACCOUNT OR TRANSFER OF INITIAL SERVICE ACCOUNT FROM VERTICAL BRIDGE TO VERIZON.
1. CONTRACTOR RESPONSIBLE FOR REPORTING POWER UPDATES.
2. CONTRACTOR RESPONSIBLE FOR TRACKING AND CONFIRMING METER SET.
3. PHOTO CONFIRMATION REQUIRED.

B. TYPICAL VERIZON ELECTRICAL POWER SERVICE INSTALL. SEE CONSTRUCTION DRAWINGS FOR POWER ROUTING.

6.00 THE DESIGNER/CM MAKES NO WARRANTY, EXPRESSED OR IMPLIED, ON THE STRUCTURAL ADEQUACY FOR FOUNDATION BRACKETS, CURBS, PARTS, FROM A MANUFACTURER.

7.00 UTILITY H-FRAME CONSTRUCTION
A. CONTRACTOR SHALL SUPPLY AND INSTALL A 4-GANG 800 AMP METER PANEL ON A NEW 8' H-FRAME. H-FRAME TO BE CONSTRUCTED TO HOLD 4-GANG METER BASE ON FRONT WITH METERS FACING OUT OF COMPOUND.
C. H-FRAME TO BE CONSTRUCTED TO HOLD TOWER LIGHTING SUB-PANEL AND LIGHTING CONTROLLER ON FRONT ALONGSIDE METER BASE.
D. CONTRACTOR SHALL SUPPLY GFCI ALL WEATHER RECEPTACLES ON H-FRAME.
E. CONTRACTOR SHALL SUPPLY AND INSTALL 500-WATT METAL HALIDE FLOOD LIGHT 120 VOLT WITH TIMER SWITCH.

8.00 POWER SERVICE
A. CONTRACTOR SHALL USE PROVIDED UTILITY REPORT AND CONSTRUCTION DRAWINGS TO BID POWER FROM POWER DEMAND.
B. CONTRACTOR SHALL BE IN CONSTANT COMMUNICATION WITH POWER COMPANY UNTIL POWER IS ACQUIRED AT MULTI-METER FRAME.
C. CONTRACTOR SHALL NOTIFY UTILITY PROVIDER OF START OF CONSTRUCTION.
D. CONTRACTOR SHALL CONDUCT A SECOND POWER WALK WITH UTILITY PROVIDER AT START OF CONSTRUCTION.
E. IF CHANGES TO THE SCOPE OF WORK ARE MADE BY THE UTILITY PROVIDER AFTER CONSTRUCTION START, CONTRACTOR SHALL NOTIFY VERTICAL BRIDGE CM/PM IMMEDIATELY.

9.00 VERIZON TELCO/FIBER SERVICE INSTALL BY VERTICAL BRIDGE
A. CONTRACTOR SHALL SUPPLY AND INSTALL A SEPARATE HAND-HOLE AT THE ROW, AT THE COMPOUND

VERTICAL BRIDGE CONSTRUCTION SCOPE OF WORK:

1.00 PERMITTING
A. CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL PERMITS AND ALL REQUIRED INSPECTIONS.

2.00 SITE CLEARING
A. CONTRACTOR SHALL CLEAR ACCESS EASEMENT AND LEASE AREA OF ALL TREES AND STUMPS. REMOVE AND DISPOSE OF ALL DEBRIS. CONTRACTOR SHALL NOT DISTURB AREA OUTSIDE OF LIMITS OF DISTURBANCE.
B. IF REQUIRED PER UTILITY COORDINATION CONTRACTOR SHALL CLEAR UTILITY EASEMENTS OF ALL TREES AND STUMPS. REMOVE AND DISPOSE OF ALL DEBRIS.

C. CONTRACTOR SHALL INSTALL SILT FENCE PRIOR TO THE START OF CONSTRUCTION.
D. ALL DEBRIS OR MATERIALS TO BE LEFT ON SITE WILL BE CLEARED WITH THE LAND OWNER ON A SIGNED DOCUMENT.

3.00 ACCESS ROAD
A. CONTRACTOR SHALL COMPLETE GRAVEL ACCESS DRIVE TO TOWER COMPOUND PER CONSTRUCTION DRAWINGS OR AT A MINIMUM OF VERTICAL BRIDGE STANDARDS.

B. 18" CULVERT PIPE IS VERTICAL BRIDGE MINIMUM STANDARD UNLESS DOT ENFORCED SIZE IS REQUESTED. SEE CONSTRUCTION DRAWINGS GRADING PLAN FOR SITE CULVERT LOCATION(S) AND SIZES.

4.00 COMPOUND FENCE SHALL INSTALL STAKE LOCK SYSTEM AND VERTICAL BRIDGE LOCK ON COMPOUND GATE. VERTICAL BRIDGE LOCK COMBO (0851)

B. CONTRACTOR SHALL INSTALL MUSHROOM AND GATE STOPS.

C. CONTRACTOR SHALL INSTALL 50X5X5/8" CHAINLINK FENCE WITH (3) BANS OF BARBED WIRE ON TOP FOR MONITOR AND GUIDED TOWERS UNLESS NOTED OTHERWISE. (75X75X5/8" FENCED COMPOUND FOR SST TOWER SITES UNLESS NOTED OTHERWISE)

5.00 TOWER AND FOUNDATION
A. CONTRACTOR SHALL COORDINATE DELIVERY OF ANCHOR BOLTS, TEMPLATE AND TOWER STEEL WITH TOWER VENDOR.
B. CONTRACTOR SHALL UTILIZE SUPPLIED FOUNDATION DESIGN FOR TOWER. REBAR AND CONCRETE INSTALLATION SHALL BE INSPECTED AND TESTED BY A 3RD PARTY COMPANY AND SUBMIT TEST AND INSPECTION REPORTS TO VERTICAL BRIDGE. (SPICALS FROM FOUNDATION SHALL BE REMOVED FROM SITE)
C. 3 DAY / 7 DAY / 28 DAY BREAK TEST REQUIRED. BREAK TEST MUST BE SUBMITTED FOR REVIEW PRIOR TO TOWER STACK.
D. CONTRACTOR SHALL INSTALL TOWER, ALL ASSOCIATED STEP BOLTS, SAFETY CLAMP EQUIPMENT, LIGHTNING ROD, WAGGUIDE LAJDER AND ALL MISCELLANEOUS TOWER PARTS.
E. CONTRACTOR SHALL CONFORM TO SUPPLIED F&A HEIGHT VERIFICATION.

6.00 TOWER LIGHTING
A. TOWER LIGHTING EQUIPMENT SHALL BE INSTALLED BY LIGHTING MANUFACTURER.
B. CONTRACTOR SHALL SUPPLY AND INSTALL 100A SUB-PANEL WITH (3) 20 AMP BREAKERS FOR TOWER LIGHTING IF REQUIRED.
C. CONTRACTOR SHALL SUPPLY AND INSTALL (1) GFI OUTLET AT SUB-PANEL LOCATION FOR TOWER LIGHTING IF REQUIRED.

D. CONTRACTOR SHALL SUPPLY AND INSTALL (1) 2" CONDUIT FROM SUB-PANEL LOCATION TO TOWER LEG WITH WEATHER-HEAD IF REQUIRED.

7.00 UTILITY H-FRAME CONSTRUCTION
A. CONTRACTOR SHALL SUPPLY AND INSTALL A 4-GANG 800 AMP METER PANEL ON A NEW 8' H-FRAME. H-FRAME TO BE CONSTRUCTED TO HOLD 4-GANG METER BASE ON FRONT WITH METERS FACING OUT OF COMPOUND.
C. H-FRAME TO BE CONSTRUCTED TO HOLD TOWER LIGHTING SUB-PANEL AND LIGHTING CONTROLLER ON FRONT ALONGSIDE METER BASE.
D. CONTRACTOR SHALL SUPPLY GFCI ALL WEATHER RECEPTACLES ON H-FRAME.
E. CONTRACTOR SHALL SUPPLY AND INSTALL 500-WATT METAL HALIDE FLOOD LIGHT 120 VOLT WITH TIMER SWITCH.

8.00 POWER SERVICE
A. CONTRACTOR SHALL USE PROVIDED UTILITY REPORT AND CONSTRUCTION DRAWINGS TO BID POWER FROM POWER DEMAND.
B. CONTRACTOR SHALL BE IN CONSTANT COMMUNICATION WITH POWER COMPANY UNTIL POWER IS ACQUIRED AT MULTI-METER FRAME.
C. CONTRACTOR SHALL NOTIFY UTILITY PROVIDER OF START OF CONSTRUCTION.
D. CONTRACTOR SHALL CONDUCT A SECOND POWER WALK WITH UTILITY PROVIDER AT START OF CONSTRUCTION.
E. IF CHANGES TO THE SCOPE OF WORK ARE MADE BY THE UTILITY PROVIDER AFTER CONSTRUCTION START, CONTRACTOR SHALL NOTIFY VERTICAL BRIDGE CM/PM IMMEDIATELY.

9.00 VERIZON TELCO/FIBER SERVICE INSTALL BY VERTICAL BRIDGE
A. CONTRACTOR SHALL SUPPLY AND INSTALL A SEPARATE HAND-HOLE AT THE ROW, AT THE COMPOUND

NOT FOR CONSTRUCTION



PROJECT
US-MN-5477
FUZE ID: 25421337

US-MN-5477
SPRUCE

ST HWY 87
FRAZEE, MN 56544

SHEET CONTENTS:
GENERAL NOTES

DRAWN BY: M.T.
CHECKED BY: S.D.
REV. A: 02-26-2023
REV. B: 02-26-2023

T-2

NOT FOR
 CONSTRUCTION



PROJECT
 US-MN-5477
 FUZE ID: 25431337

US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

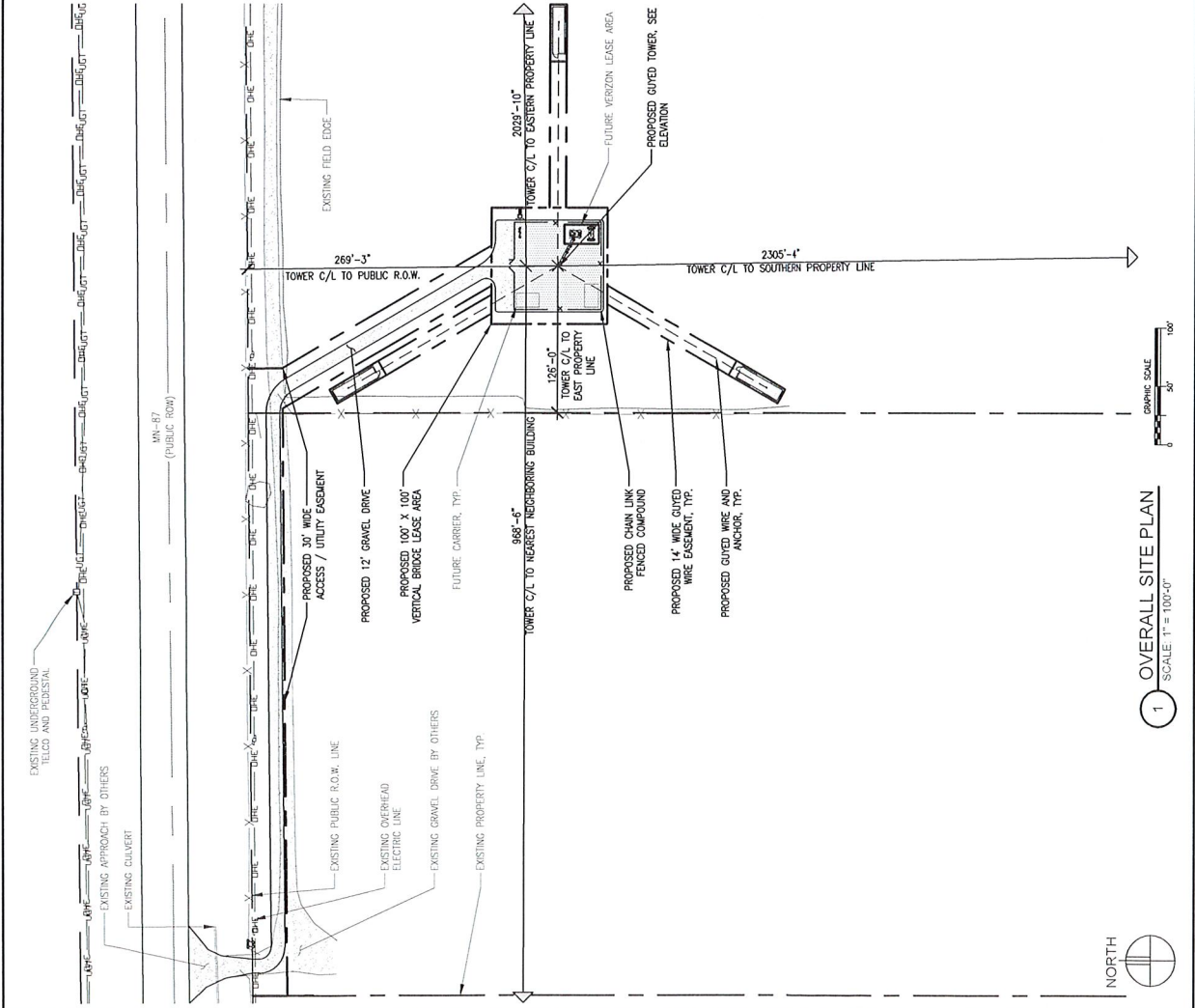
SHEET CONTENTS:
 OVERALL SITE PLAN
 TOWER ELEVATION

| | |
|-------------|------------|
| DRAWN BY: | M.T. |
| CHECKED BY: | S.D. |
| DATE: | 05/25/2023 |
| REV. B | 05/25/2023 |

A-1

NOTES

1. THESE DRAWINGS DO NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, OF THE ACCURACY OF THE STRUCTURAL ANALYSES AND THE PERFORMANCE OF THE COMPLETED CONSTRUCTION AS SHOWN ON THESE DOCUMENTS AND THE STRUCTURAL ANALYSES.
2. NO STRUCTURAL ANALYSIS FOR THE TOWER OR FOUNDATION HAVE BEEN PERFORMED AS PART OF THESE DRAWINGS. THE STRUCTURAL ANALYSIS FOR THE TOWER AND FOUNDATION ARE BY THE TOWER SUPPLIER AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.
3. PLEASE COORDINATE ANY STRUCTURAL CONCERN MATTERS OR ANY LOADING MODIFICATIONS TO THE CONSULTANT WHO AUTHORED THE ANALYSIS AND NOTIFY DESIGN 1 IMMEDIATELY OF THE ISSUE.
4. TOWER FOUNDATION AND THE ACCESS DRIVE TO BE EXCAVATED AND CONSTRUCTED IN ACCORDANCE WITH THE TOWER SUPPLIER'S DRAWINGS AND FOUNDATION DESIGN. THE TOWER SUPPLIER'S DRAWINGS SHALL BE THE BASIS FOR ALL DISCREPANCIES BETWEEN THE REPORT AND THE OTHER DOCUMENTS TO BE IMMEDIATELY REPORTED TO THE DESIGNER.
5. TOWER TO BE ERECTED AND INSTALLED IN ACCORDANCE WITH TOWER MANUFACTURER'S DRAWINGS NOT INCLUDED WITH THIS PACKAGE. DISCREPANCIES BETWEEN TOWER DRAWINGS AND DESIGNER DRAWINGS TO BE REPORTED TO THE DESIGNER IMMEDIATELY.
6. CONTRACTOR TO ENSURE TIP OF ANTENNAS DO NOT EXCEED TOWER HEIGHT.
7. ELEVATION IS SHOWN FOR GENERAL DIAGNOSTIC PURPOSES ONLY, DO NOT SCALE.



PREPARED FOR:
Vertical Bridge
 THE TOWERS, LLC
 22 WEST ATLANTIC AVENUE, SUITE 310
 DELRAY BEACH, FL 33444

NOT FOR
 CONSTRUCTION

DESIGN
 8871 VALLEY VIEW RD.
 EBEN PRARIE, MN 55544
 (952) 905-6799
 WWW.DESIGN1.COM

PROJECT:
 US-MN-5477
 FUZE ID: 25431337

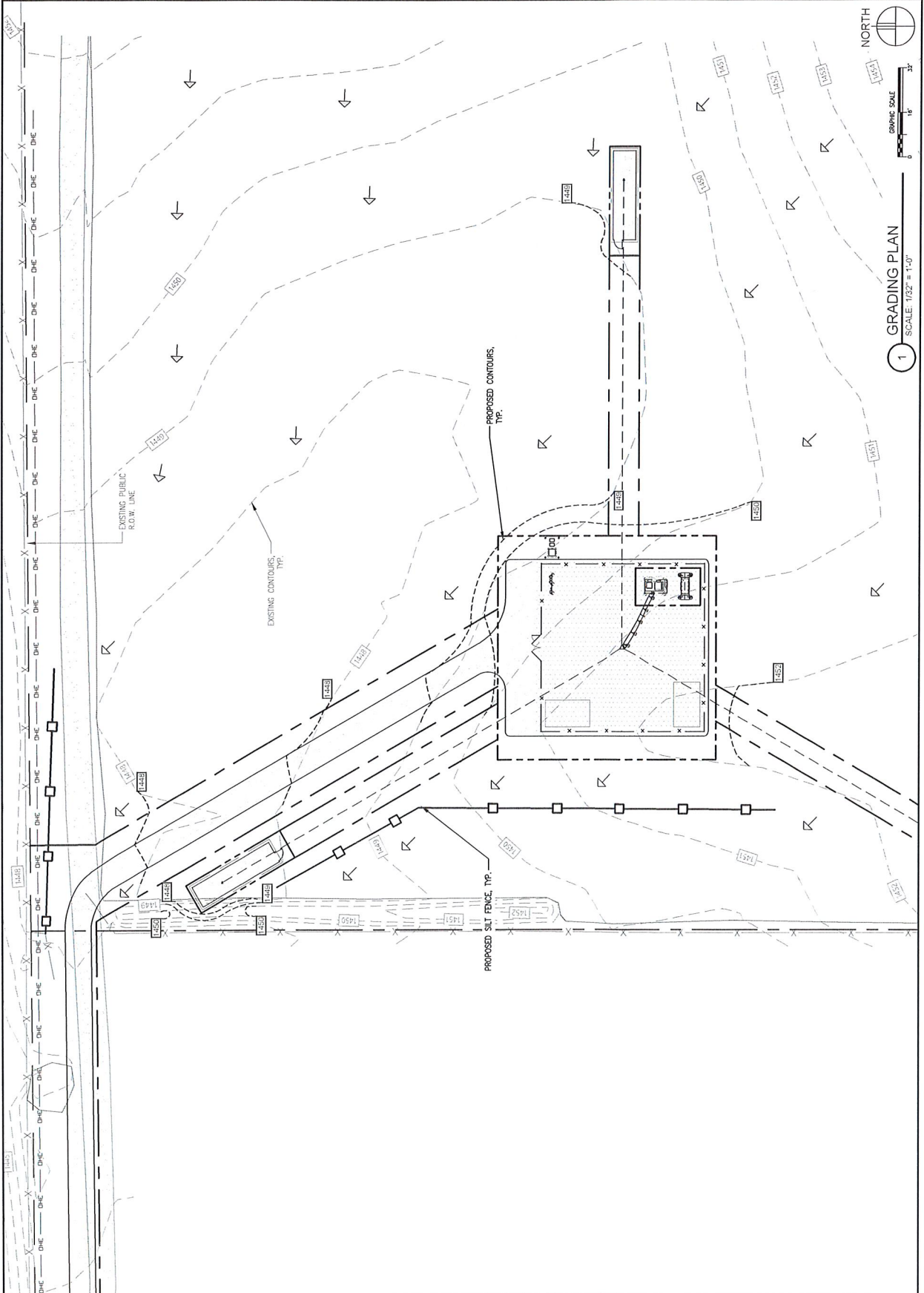
US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

SHEET CONTENTS:
 GRADING PLAN

| | |
|-------------|------------|
| DRAWN BY: | MJ |
| CHECKED BY: | SD |
| REV. A: | 02-23-2025 |
| REV. B: | 02-26-2025 |

A-3.1

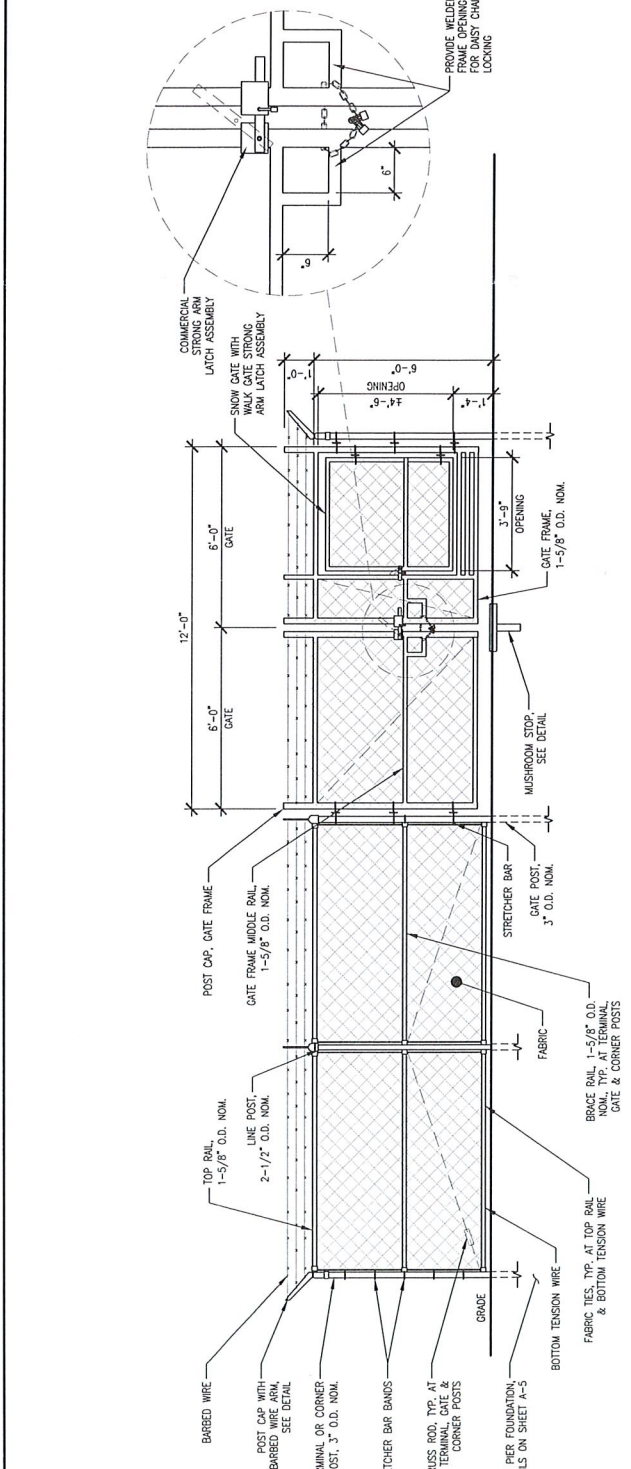


1 GRADING PLAN
 SCALE: 1/32" = 1'-0"

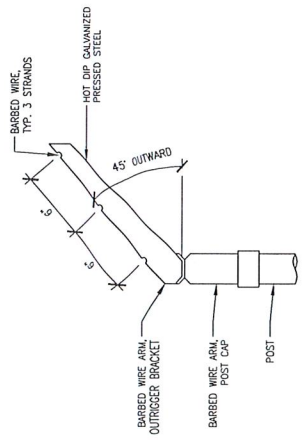
GRAPHIC SCALE
 0 10 20 30
 FEET

NORTH

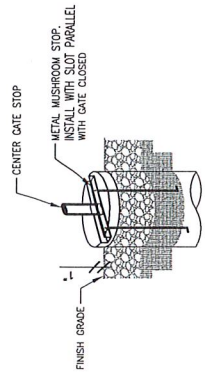
NOTE:
CONTRACTOR TO INSTALL NUTS
AND WASHERS TO THE
INTERIOR OF THE COMPOUND



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



2 BARBED WIRE ARM DETAIL



3 MUSHROOM STOP DETAIL

PREPARED FOR:
vertical bridge
 THE TOWERS, LLC
 22 WEST ATLANTIC AVENUE, SUITE 310
 DELRAY BEACH, FL 33444

NOT FOR CONSTRUCTION

DESIGN 1
 9873 VALLEY VIEW RD.
 EDEN PRAIRIE, MN 55344
 (952) 953-9799
 WWW.DESIGN1P.COM

PROJECT:
 US-MN-5477
 FUZE ID: 25431337

US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

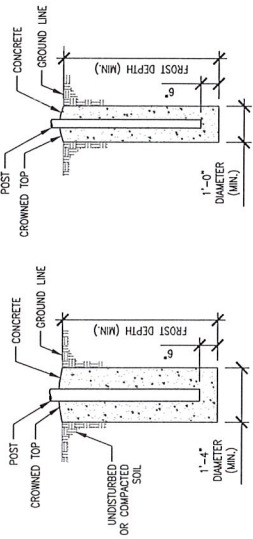
SHEET CONTENTS:
 FENCE DETAILS

| | |
|--------------|------------|
| DESIGNED BY: | M.T. |
| CHECKED BY: | S.D. |
| REV. A: | 02-28-2025 |
| REV. B: | 02-28-2025 |

NOT FOR
 CONSTRUCTION

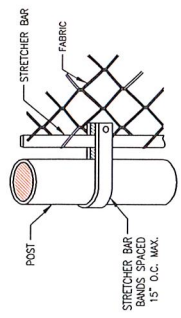
| | |
|--------------|------------|
| DESIGNED BY: | M.L. |
| CHECKED BY: | S.T. |
| REV. A: | 02-28-2025 |
| REV. B: | 05-28-2025 |

- NOTES:**
- ZINC COATING - THE WEIGHT OF THE COATING SHALL NOT BE LESS THAN 1.2 OUNCES PER SQUARE FOOT OF SURFACE AREA. THE FENCE SHALL BE FABRICATED FROM GALVANIZED OR STAINLESS STEEL. ALL SCREWS, BOLTS, LOCK WASHERS, NUTS, ETC. SHALL BE HOT DIP GALVANIZED OR MADE OF STAINLESS STEEL.
 - FABRIC - STANDARD INDUSTRIAL GRADE, 9 GAUGE WITH 2 INCH WESH (KNUCKLE & TWIST SELWAGE) ZINC COATED SPRUCE. THE FABRIC SHALL BE 1250 POUNDS SHALL BE USED. THE FABRIC SHALL BE ZINC COATED BY THE HOT DIP PROCESS AFTER FABRICATION.
 - METAL POSTS - METAL POSTS, CORNER, TERMINAL, GATE POSTS, MIDDLE RAILS, BRACES AND TOP RAIL SHALL BE GALVANIZED SCHEDULE 40 TUBULAR STEEL WITH A NOMINAL OUTSIDE DIAMETER AS INDICATED IN THE DRAWINGS.
 - POST CAPS - LINE, CORNER, TERMINAL AND GATE POST CAPS TO INCLUDE A BARBED WIRE OUTRIGGER BRACKET AND SHALL BE ATTACHED TO THE POST WITH TAMPER RESISTANT SCREWS, BRADS, OR BOLTS. GATE FRAME POST CAPS TO BE PRESSED STEEL BOME TYPE.
 - TOP RAIL - A MINIMUM OF ONE COUPLING IN EACH STRAIGHT RUN OF TOP RAIL SHALL HAVE A HEAVY SPRING INSERTED WITHIN THE COUPLING TO TAKE UP EXPANSION AND CONTRACTION OF THE TOP RAIL. THE TOP RAIL SHALL BE FASTENED TO TERMINAL POSTS WITH PRESSED STEEL CONNECTIONS.
 - GATE FRAME MIDDLE RAIL - THE MIDDLE RAIL SHALL BE OF THE SAME MATERIAL AS THE TOP RAIL AND INSTALLED WITH HOT DIP GALVANIZED FITTINGS ATTACHED TO THE POSTS.
 - BRACE RAIL - BRACE RAIL MATERIAL SHALL BE OF THE MATERIAL AS THE TOP RAIL AND LOCATED 1/2 OF THE DISTANCE UP FROM THE BOTTOM OF THE FABRIC. BRACE RAILS SHALL BE SECURELY FASTENED TO POSTS BY SUITABLE PRESSED STEEL CONNECTIONS.
 - TRUSS RODS - SHALL BE 3/8" ROUND GALVANIZED STEEL RODS WITH GALVANIZED TURNBUCKLES.
 - BOTTOM TENSION WIRE - THE TENSION WIRE SHALL BE OF 7 GAUGE HOT DIP GALVANIZED SPRING TENSION WIRE WITH A BREAKING STRENGTH OF NOT LESS THAN 1900 POUNDS. THIS WIRE SHALL BE KEPT TAUT WITH GALVANIZED TURNBUCKLES AND ATTACHED TO POSTS WITH GALVANIZED HARDWARE OR CABLE CLAMPS.
 - FABRIC TIES - THE FABRIC TIES SHALL BE ALUMINUM WIRE, NOT LESS THAN 9 GAUGE.
 - STRETCHER BARS - THE STRETCHER BARS SHALL BE FLAT GALVANIZED STEEL, NOT LESS THAN 5/16" X 3/4" X 12'. CORNER AND TERMINAL STRETCHER BARS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 5/16" X 1 1/2" WITH 5/16" DIAMETER GALVANIZED BARBAGE BOLT.
 - BARBED WIRE - BARBED WIRE OF GALVANIZED STEEL (OR ALUMINUM) CONSISTING OF 12.5 GAUGE WIRE WITH 4-POINT BARBS SPACED 5 INCHES APART.
 - GATE FRAMES SHALL BE CONSTRUCTED OF HEAVY DUTY GALVANIZED STEEL PIPE. THE GATES SHALL BE ASSEMBLED USING CORNER FITTINGS OF HEAVY PRESSED STEEL OR MALLEABLE CASTINGS OR MAY BE WELDED IF THE ENTIRE GATE FRAME IS HOT DIP GALVANIZED AFTER THE WELDING. ALL GATES SHALL BE EQUIPPED WITH HEAVY DUTY GALVANIZED TURNBUCKLES AND HARDWARE. THE TURNBUCKLES SHALL BE KEPT TAUT AT ALL TIMES. THE GATES SHALL NOT TWIST OR TURN UNDER THE ACTION OF THE GATE. GATES WILL PROVIDE A FULL RANGE OF MOTION AND BE EASILY OPENED AND CLOSED BY ONE PERSON. DOUBLE GATE LATCH SHALL BE DAC INDUSTRIES COMMERCIAL STRONG ARM LATCH #4000. SNOW GATE LATCH SHALL BE DAC INDUSTRIES WALK GATE STRONG ARM LATCH #4300. LATCHES SHALL BE EQUIPPED TO RECEIVE A PADLOCK.
 - PROVIDE R.F. WARNING SIGNAGE ON ALL GATES.

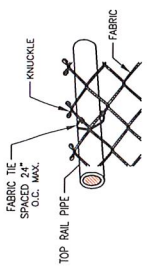


FOOTING FOR TERMINAL GATE & CORNER POST

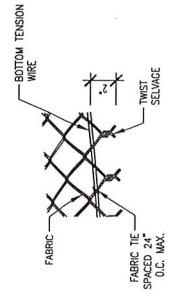
1 POST FOOTINGS



METHOD OF FASTENING STRETCHER BAR TO POST



METHOD OF TYING FABRIC TO PIPE



METHOD OF TYING FABRIC TO TENSION LINE

2 FABRIC/BAR CONNECTIONS

NOT FOR
 CONSTRUCTION



PROJECT:
 US-MN-5477
 FUZE ID: 25431337

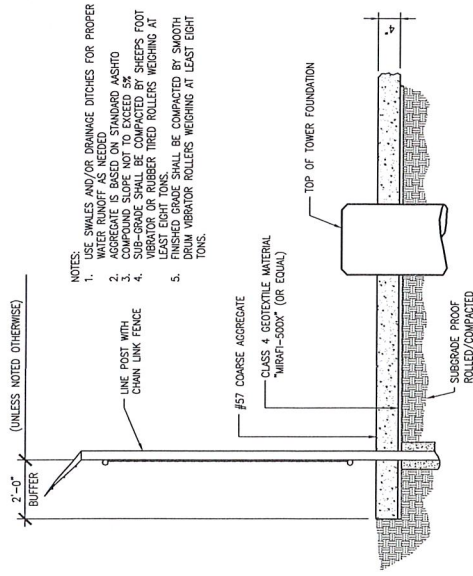
US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

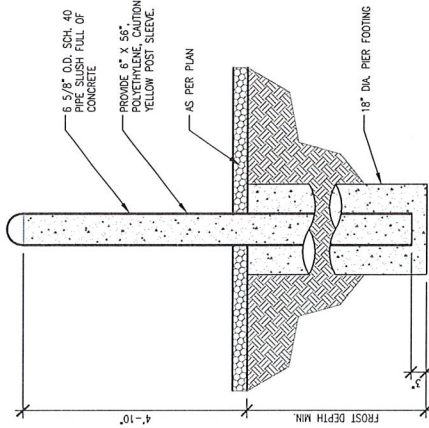
SHEET CONTENTS:
 GRAVEL DRIVE SECTION
 BOLLARD DETAIL
 UTILITY TRENCH DETAIL

| | |
|--------------|------------|
| DRAWN BY: | M.T. |
| DESIGNED BY: | S.D. |
| REVISED BY: | 03/26/2023 |
| REV. B | 03/26/2023 |

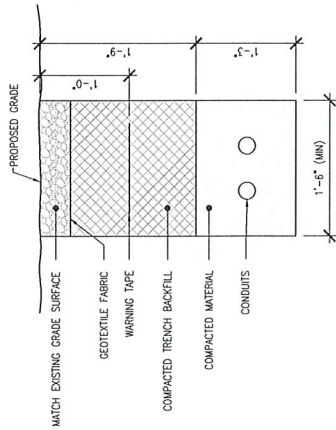
A-7



2 COMPOUND SURFACING DETAIL

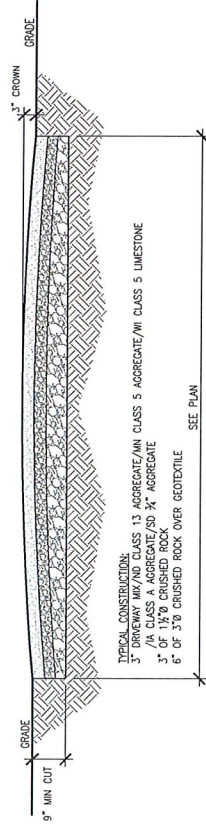


3 BOLLARD DETAIL



4 UTILITY TRENCH DETAIL

- NOTES:
 1. PREPARE SUB-GRADE AND CONSTRUCT IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
 2. ANY VARIANCE FROM THIS ROADWAY DESIGN MUST BE SUBMITTED AND APPROVED PRIOR TO BID
 3. CONTRACTOR TO COMPACT EACH LAYER OF ROCK IN ACCORDANCE WITH ASTM & LOCAL STANDARDS



1 GRAVEL DRIVE SECTION

PREPARED FOR

verticalbridge
THE TOWERS, LLC
22 WEST ATLANTIC AVENUE, SUITE 310
DELRAY BEACH, FL 33444

NOT FOR
CONSTRUCTION

DESIGN 1

6975 VALLEY VIEW RD.
EKEN PRODUCE, MN 55344
(952) 903-0299
WWW.DESIGN1P.COM

PROJECT
US-MN-5477
FUZE ID: 25431337

US-MN-5477
SPRUCE

ST HWY 87
FRAZEE, MN 56544

SHEET CONTENTS:
PHOTOS

DRAWN BY: M.L.
CHECKED BY: S.D.
REV. A: 02-26-2025
REV. B: 02-26-2025

A-8



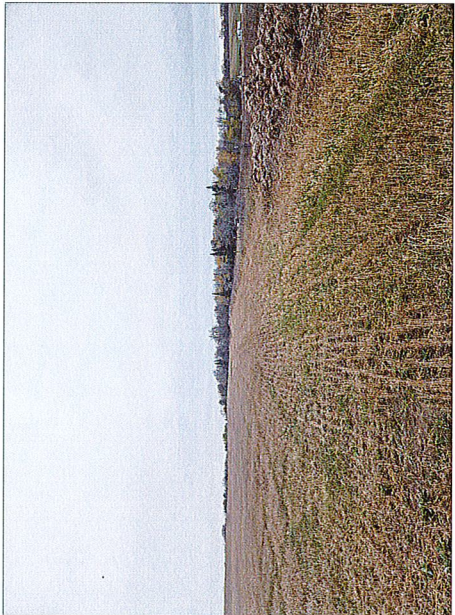
2 SITE PHOTO



4 SITE PHOTO



1 SITE PHOTO



3 SITE PHOTO

NOTES:
 1. SEE SHEET G-1 FOR
 VERSION GROUNDING PLAN.
 2. SEE SHEET G-1 FOR
 ADDITIONAL NOTES.
 3. CONFORMANCE SYSTEM
 PERFORMANCE TEST
 ALLOWANCE IS FIVE (5)
 OHMS MAXIMUM.

PREPARED FOR:



THE TOWERS, LLC
 22 WEST ATLANTIC AVENUE, SUITE 310
 DELRAY BEACH, FL 33444

NOT FOR
 CONSTRUCTION



6975 VALLEY VIEW RD.
 EKEN PROHIRE, MN 55344
 (952) 903-9799
 WWW.DESIGN1P.COM

PROJECT
 US-MN-5477
 FUZE ID: 25431337

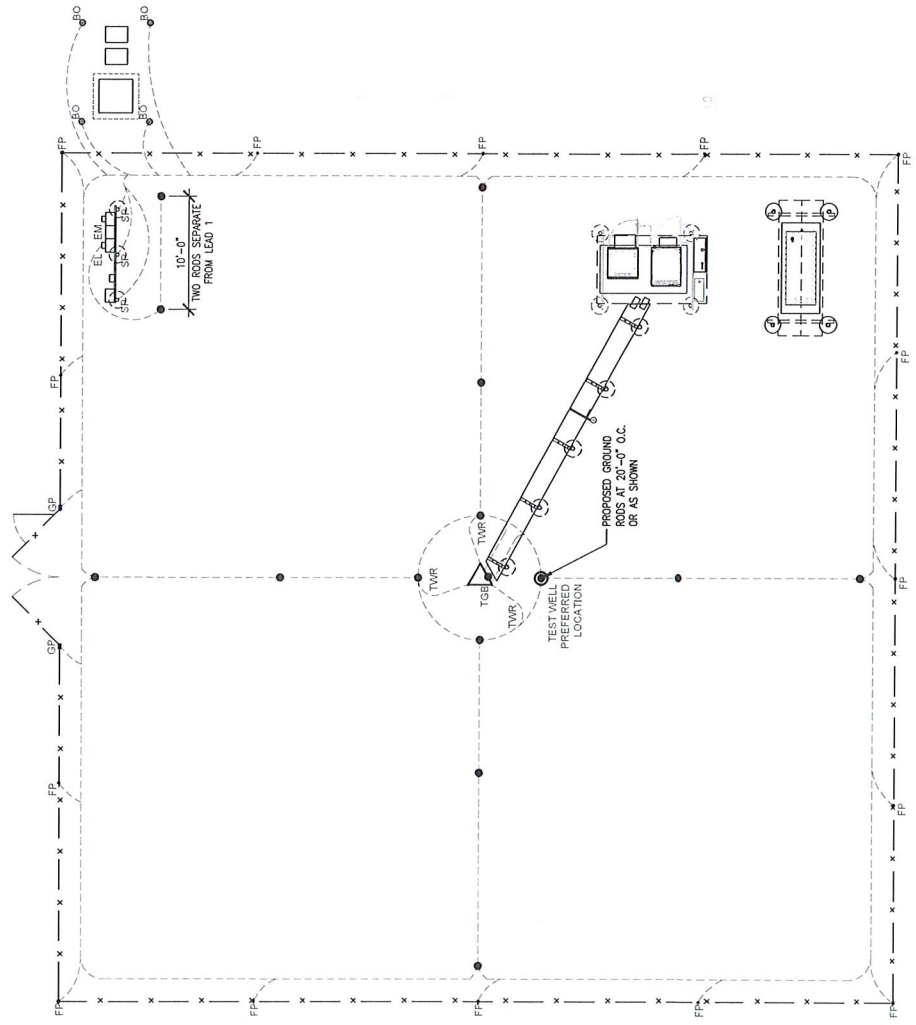
US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

SHEET CONTENTS:
 GROUNDING PLAN

| | |
|-------------|------------|
| DRAWN BY: | M.T. |
| CHECKED BY: | S.D. |
| DATE: | 05-28-2025 |
| REV. B | 05-28-2025 |

G-2



1 GROUNDING PLAN
 SCALE: NTS

NORTH



NOT FOR
 CONSTRUCTION

DESIGN 1
 9873 VALLEY VIEW RD.
 EDEN PRAIRIE, MN 55444
 (952) 935-9298
 WWW.DESIGN1P.COM

PROJECT
 US-MN-5477
 FUZE ID: 25431337

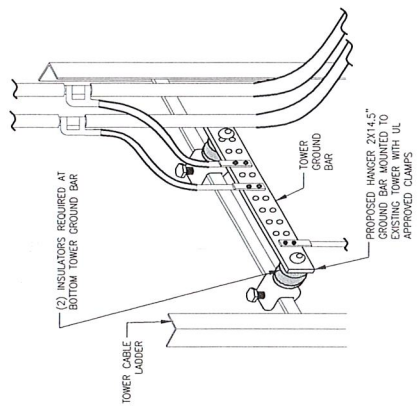
US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

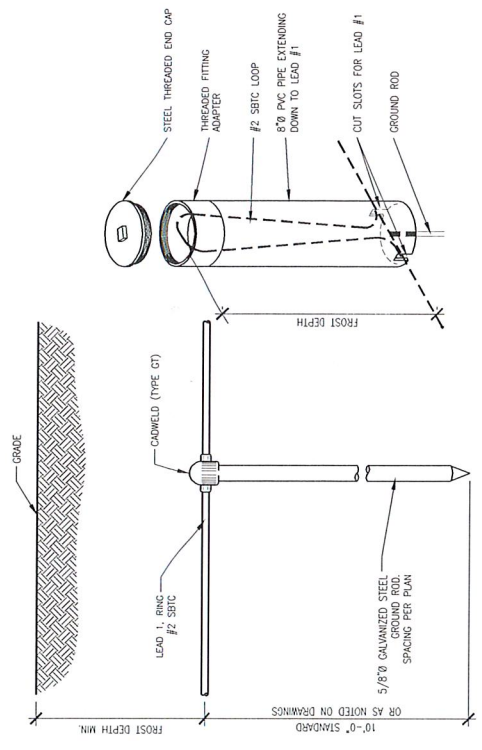
SHEET CONTENTS:
 GROUNDING DETAILS

| | |
|-------------|------------|
| DRAWN BY: | M.T. |
| CHECKED BY: | S.D. |
| REV. A: | 02/24/2025 |
| REV. B: | 02/25/2025 |

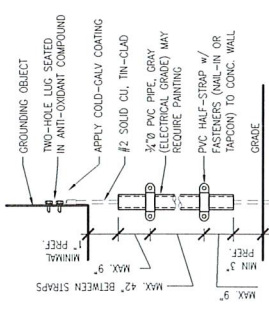
G-3



5 TOWER GROUND BAR DETAIL
 SCALE: NONE

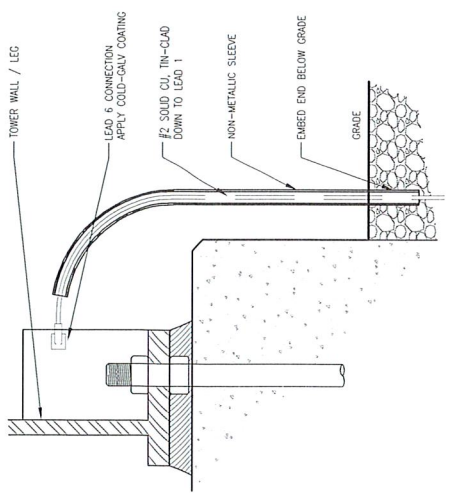


4 GROUND RING & ROD DETAIL
 SCALE: NONE



1 CONDUIT DETAIL
 SCALE: NONE

NOTE: IF NO FLANGES ARE PROVIDED, USE BASE PLATE, OR CONTACT TOWER MANUFACTURER.



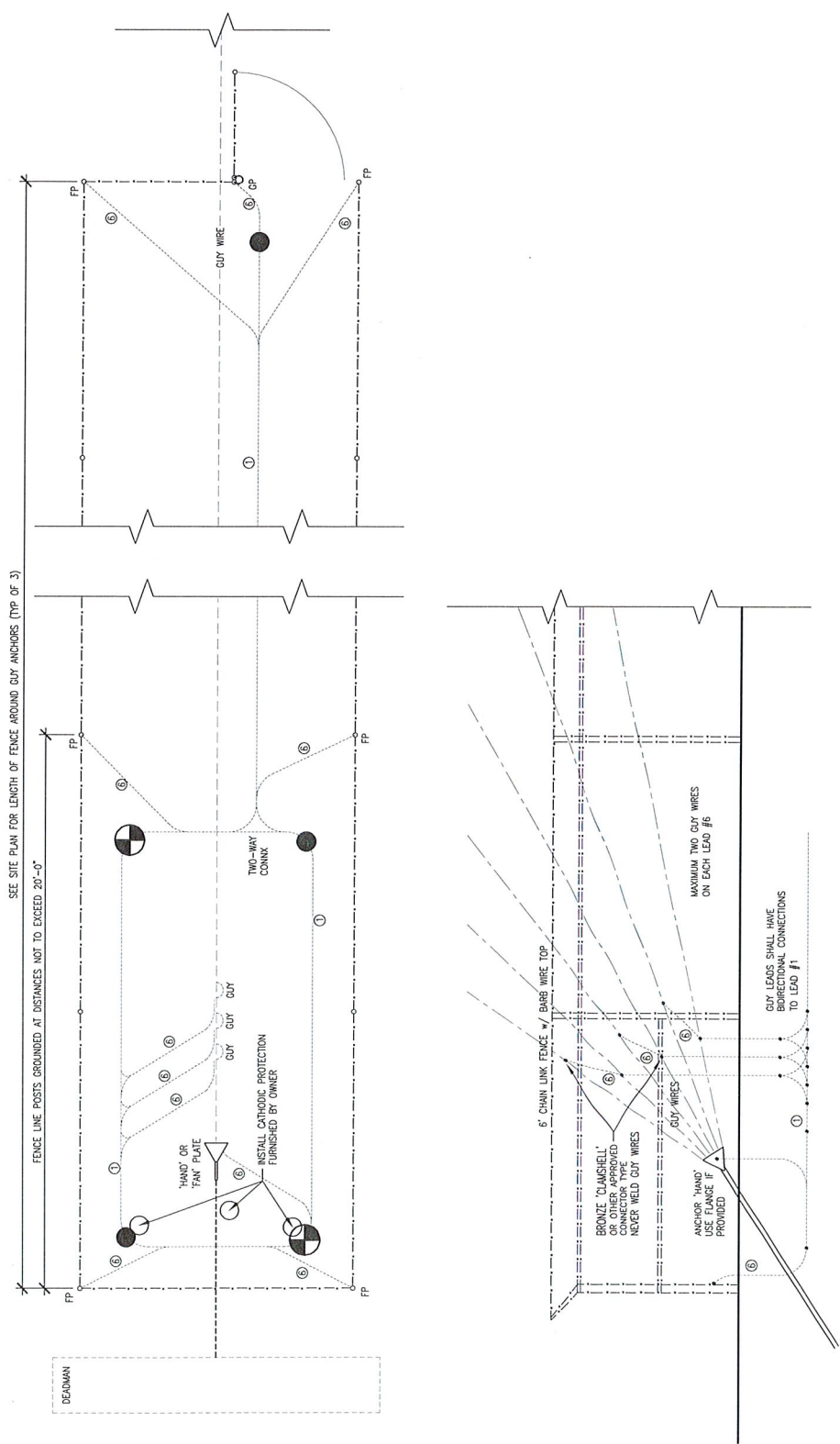
2 REBAR GROUNDING DETAIL
 SCALE: NONE

NOT FOR
 CONSTRUCTION

PROJECT
 US-MN-5477
 FUZE ID: 25431337
 US-MN-5477
 SPRUCE
 ST HWY 87
 FRAZEE, MN 56544

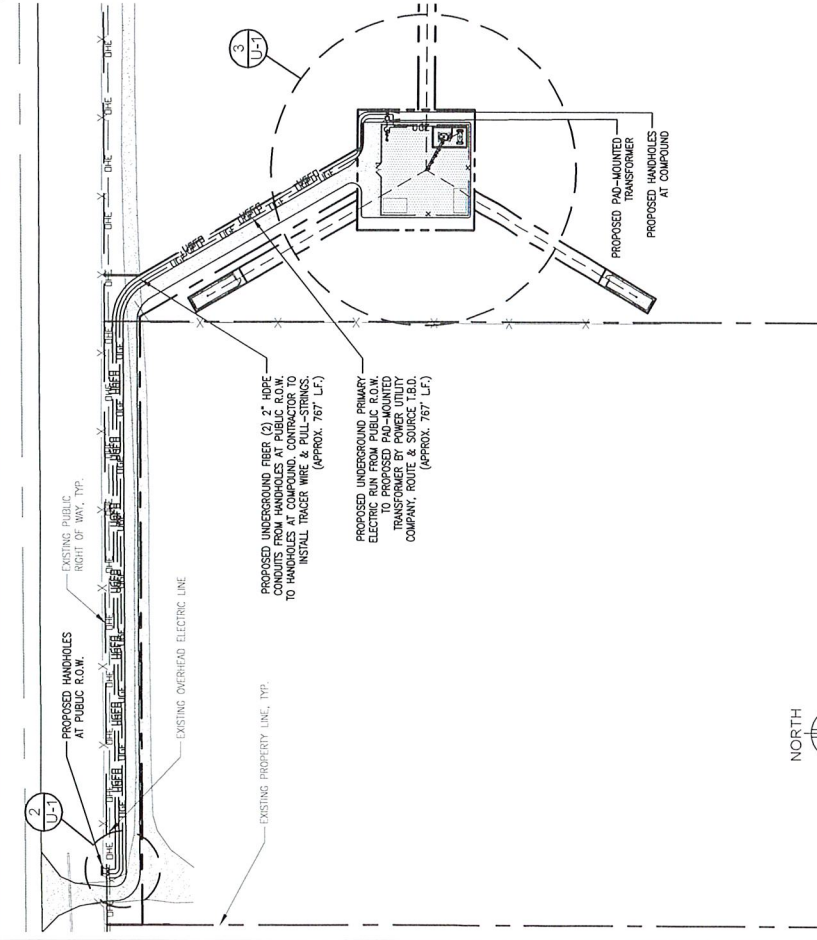
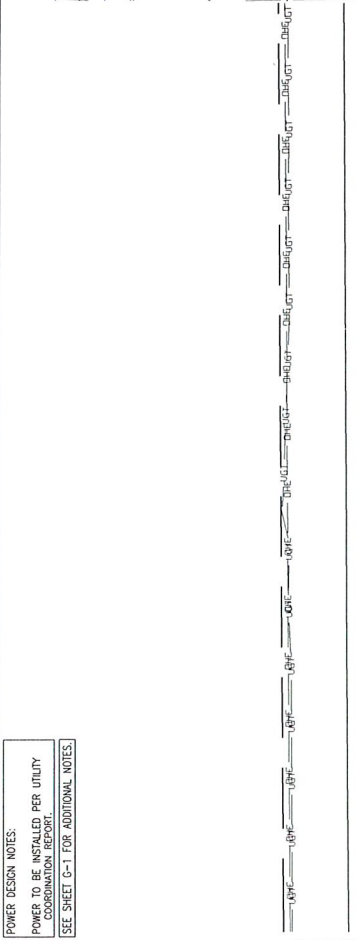
SHEET CONTENTS:
 GROUNDING DETAILS

| | |
|--------------|------------|
| DESIGNED BY: | M.T. |
| CHECKED BY: | S.D. |
| REV. A: | 02-28-2023 |
| REV. B: | 02-28-2023 |



1 GUY WIRE & COMPOUND GROUNDING DETAIL
 SCALE: 1/4" = 1'-0"

POWER DESIGN NOTES:
 POWER TO BE INSTALLED PER UTILITY
 COORDINATION REPORT.
 SEE SHEET G-1 FOR ADDITIONAL NOTES.



PREPARED FOR:
Verticalbridge
 THE TOWERS, LLC
 22 WEST ATLANTIC AVENUE, SUITE 310
 DELRAY BEACH, FL 33444

NOT FOR
 CONSTRUCTION

DESIGN
 8973 VALLEY VIEW RD.
 EDEN PRAIRIE, MN 55544
 (952) 983-0999
 WWW.DESIGN1.COM

PROJECT:
 US-MN-5477
 FUZE ID: 25471337

US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

SHEET CONTENTS:
 SITE UTILITY PLAN
 ENLARGED SITE UTILITY PLAN
 PULLBOX LOCATION PLAN

DRAWN BY: M.T.
 CHECKED BY: M.T.
 REV. A: 02-28-2025
 REV. B: 02-28-2025

U-1

NOT FOR
 CONSTRUCTION

PROJECT
 US-MN-5477
 FUZE ID: 25431337

US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

SHEET CONTENTS:
 METER UTILITY FRAME DETAIL

| | |
|--------------|------------|
| DESIGNED BY: | M.T. |
| CHECKED BY: | S.D. |
| REV. 01: | 03/28/2023 |
| REV. 02: | 03/28/2023 |

U-2

ELECTRIC SERVICE NOTES:

ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (LATEST EDITION), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE COVERAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE WARRANTY OF A DEVICE WHICH WOULD VOID THE UL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.

COORDINATE ELECTRIC SERVICE WITH LOCAL POWER UTILITY COMPANY. COORDINATE WITH UTILITY FOR METER TYPE AND CONNECTION.

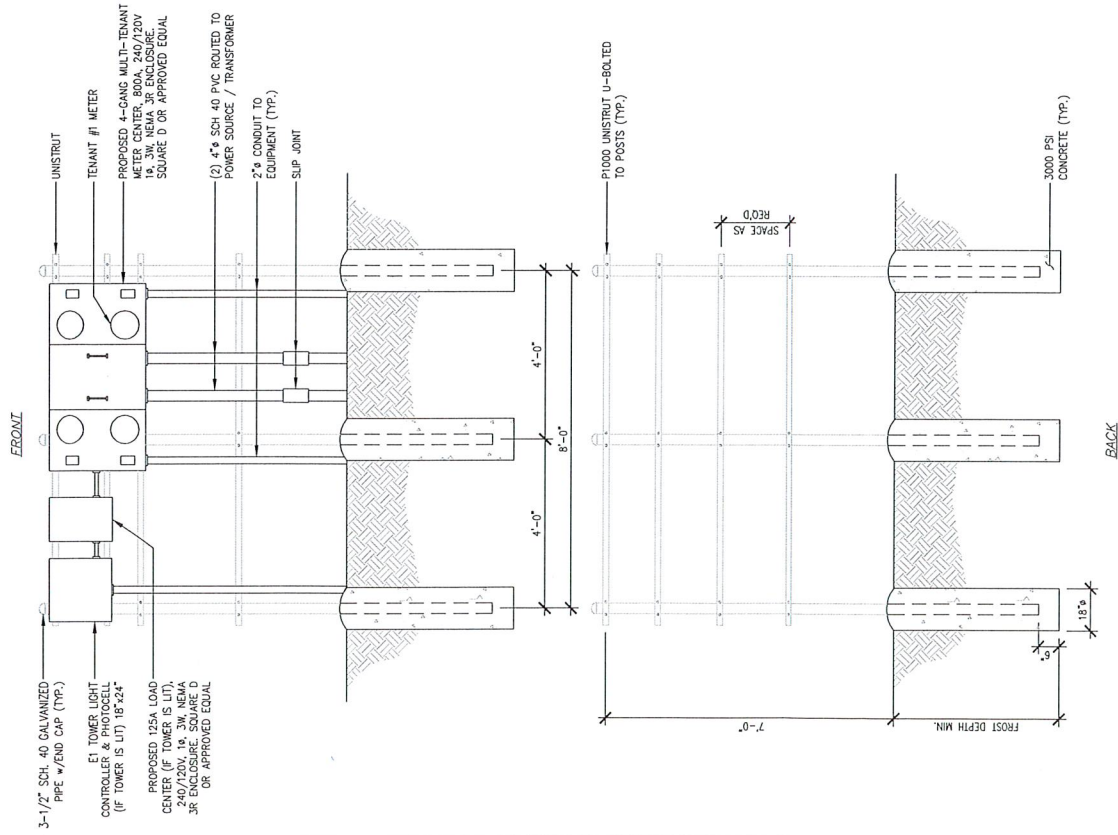
ALL CONDUIT SHALL BE SEALED WATERTIGHT UNTIL FINAL TERMINATIONS ARE MADE.

PROVIDE PULL CORD IN ALL CONDUITS. SECURE AT EACH END.

ADJUST DEPTH OF CONDUITS TO PASS ABOVE GROUNDING SYSTEM.

PROVIDE 18 INCH (MIN.) RADIUS ELBOWS FOR ALL BENDS.

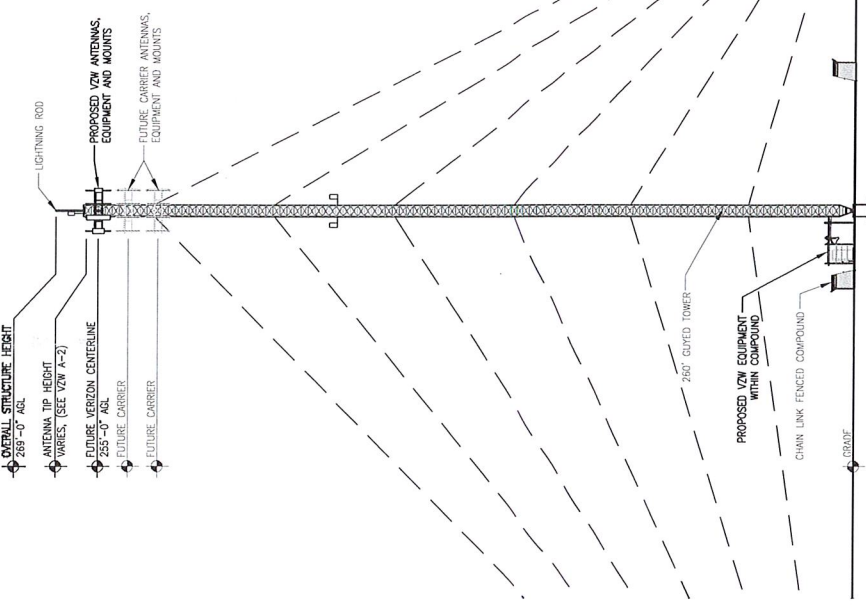
PROVIDE PHENOLIC ENGRAVED NAMEPLATES AT THE SERVICE DISCONNECT LABELS. "SERVICE DISCONNECT" & "NOTE ENGINE GENERATOR NEUTRAL IS ALSO BONDED TO GROUND AT THE SERVICE DISCONNECT". PROVIDE ADDITIONAL NAMEPLATES NOTING TYPE AND LOCATION OF STANDBY POWER SOURCE.



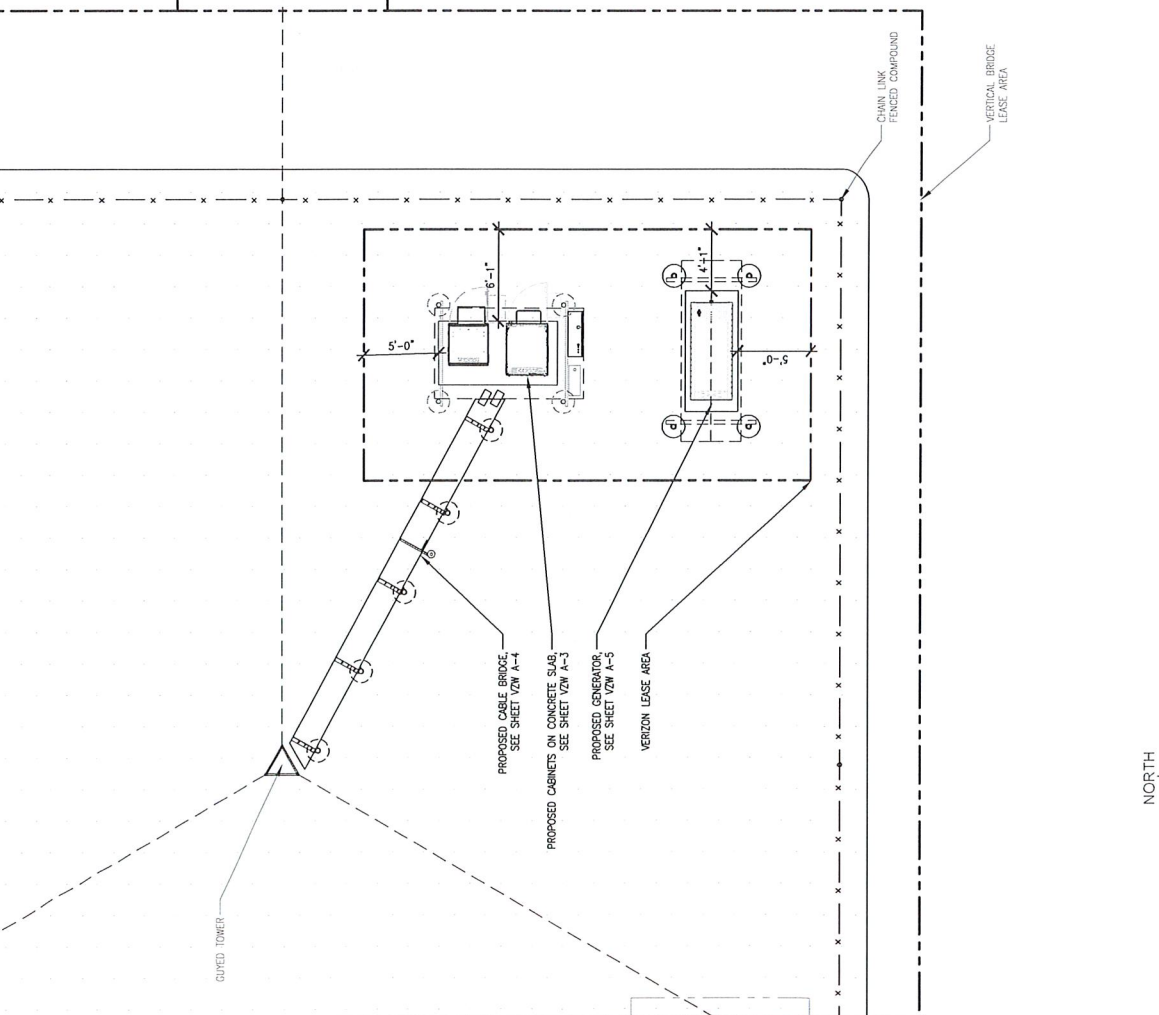
1 METER UTILITY FRAME DETAIL
 SCALE: NONE

NOTES:

1. THESE DRAWINGS DO NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, OF THE ACCURACY OF THE STRUCTURAL ANALYSES AND THE PERFORMANCE OF THE COMPLETED CONSTRUCTION AS SHOWN ON THESE DOCUMENTS AND THE STRUCTURAL ANALYSES.
2. NO STRUCTURAL ANALYSIS FOR THE MOUNT HAS BEEN PERFORMED AS PART OF THESE DRAWINGS.
3. PLEASE COORDINATE ANY STRUCTURAL CONCERNS/MATTERS OR ANY LOADING MODIFICATIONS TO THE CONSULTANT WHO AUTHORED THE ANALYSIS AND NOTIFY DESIGN 1 IMMEDIATELY OF THE ISSUE.
4. EQUIPMENT SLAB AND GENERATOR FOUNDATION TO BE EXCAVATED AND CONSTRUCTED IN ACCORDANCE WITH RECOMMENDATIONS AND SPECIFICATIONS OF THE GEOTECHNICAL REPORT WHICH IS NOT INCLUDED IN THIS PACKAGE. DISCREPANCIES BETWEEN THE REPORT AND THE OTHER DOCUMENTS TO BE IMMEDIATELY REPORTED TO VERIZON WIRELESS AND THE DESIGNER.
5. CONTRACTOR TO ENSURE TIP OF ANTENNAS DO NOT EXCEED TOWER HEIGHT.
6. ELEVATION IS SHOWN FOR GENERAL DIAGRAMMATIC PURPOSES ONLY. DO NOT SCALE.
7. THE STRUCTURAL ANALYSIS FOR THE MOUNTS (BY OTHERS) SHALL BE PER THE VERIZON NETWORK STANDARD NSTD-445. ALL LOADING AND DESIGN SHALL BE PER THE TIA-222-H STANDARD.



2 TOWER ELEVATION
 SCALE: 1" = 40'-0"



1 VERIZON SITE PLAN
 SCALE: 1/8" = 1'-0"



NOT FOR
 CONSTRUCTION



PROJECT
 US-MN-5477
 FUZE ID: 25431337

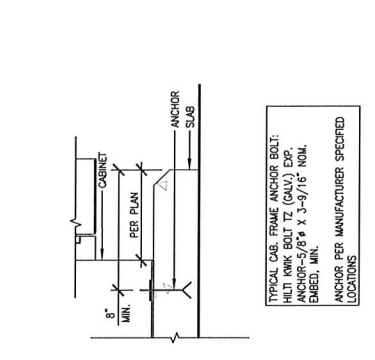
US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

SHEET CONTENTS:
 FOUNDATION PLAN & DETAILS
 CANOPY PLAN & DETAILS
 ELEVATIONS

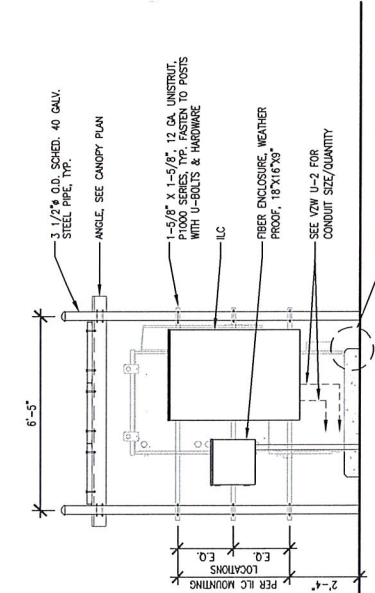
| | |
|--------------|------------|
| DESIGNED BY: | M.T. |
| CHECKED BY: | S.T. |
| REV. A: | 02-23-2025 |
| REV. B: | 02-26-2025 |

VZW A-3

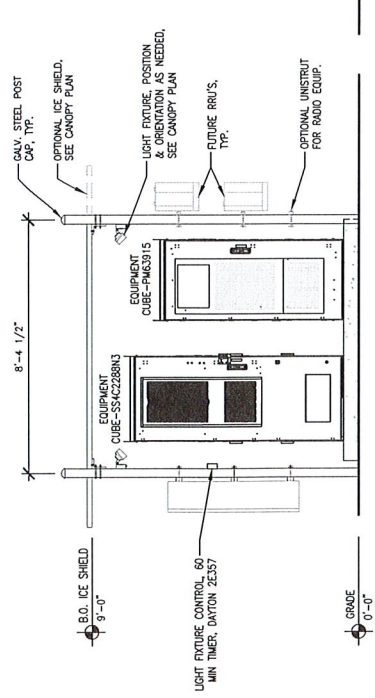


TYPICAL CAB. FRAME ANCHOR BOLT:
 HALF INCH BOLT T2 (GALV.) EXP.
 1/2" DIA. X 3/8" X 3-5/16" NOM.
 CHASE, MIN.
 ANCHOR PER MANUFACTURER SPECIFIED
 LOCATIONS

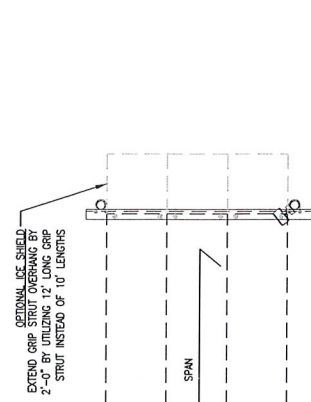
7 DETAIL
 SCALE: 1/4" = 1'-0"



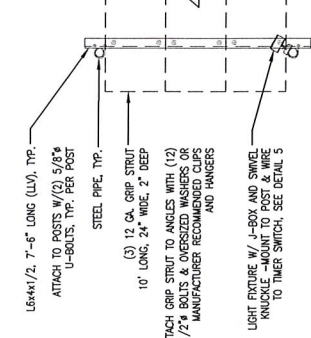
6 SIDE ELEVATION
 SCALE: 1/4" = 1'-0"



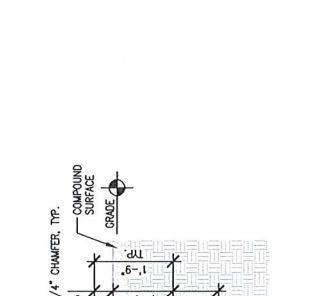
5 FRONT ELEVATION
 SCALE: 1/4" = 1'-0"



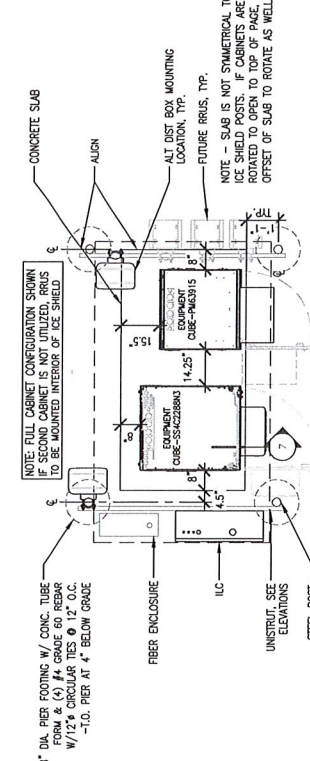
2 CANOPY PLAN
 SCALE: 1/4" = 1'-0"



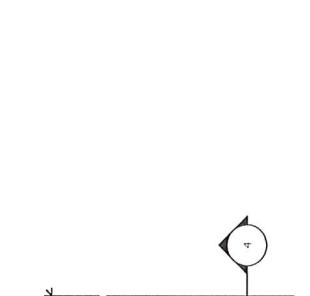
7 DETAIL
 SCALE: 1/4" = 1'-0"



4 SLAB SECTION
 SCALE: 3/8" = 1'-0"



1 SLAB LAYOUT PLAN
 SCALE: 1/4" = 1'-0"



3 SLAB PLAN
 SCALE: 3/8" = 1'-0"

NOT FOR
 CONSTRUCTION

PROJECT:
 US-MN-5477
 FUZE ID: 25431337

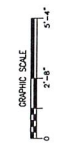
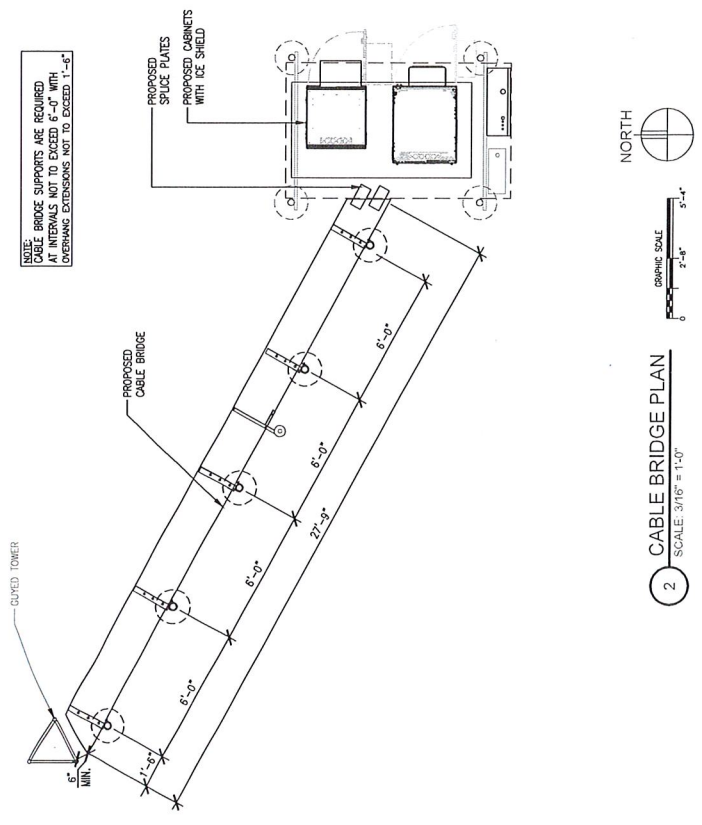
US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

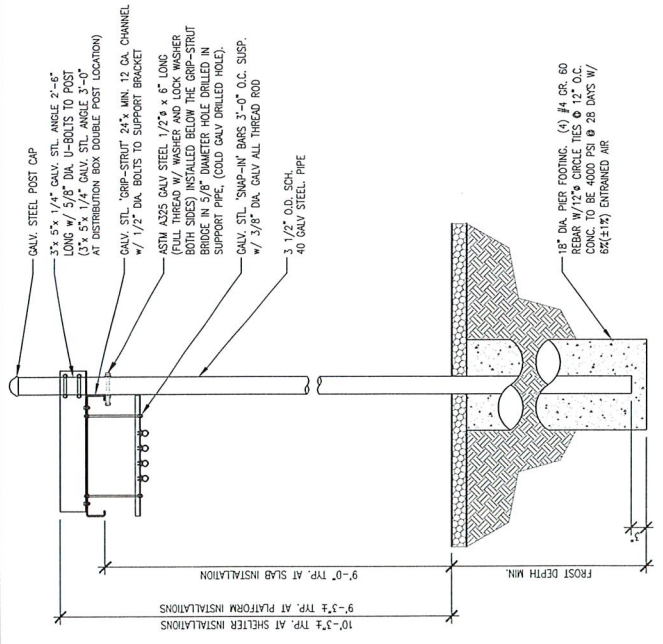
SHEET CONTENTS:
 CABLE BRIDGE DETAILS
 CABLE LADDER DETAIL
 GPS DETAILS

| | |
|--------------|------------|
| DESIGNED BY: | M.L. |
| CHECKED BY: | S.J. |
| REV. A: | 02-24-2025 |
| REV. B: | 02-26-2025 |

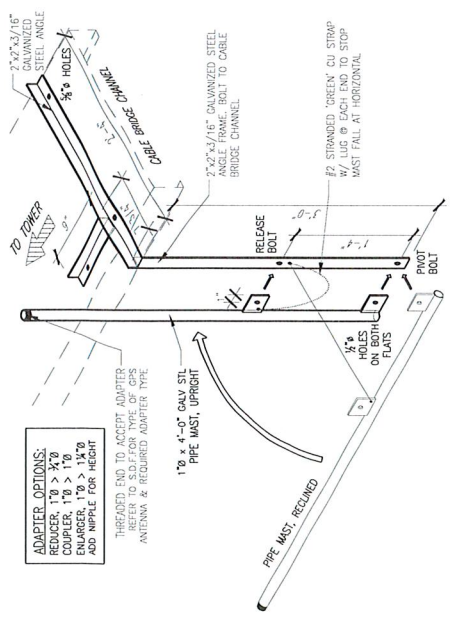
VZM A-4



2 CABLE BRIDGE PLAN
 SCALE: 3/16" = 1'-0"



1 CABLE BRIDGE SECTION
 SCALE: 1/2" = 1'-0"



3 GPS ANTENNA MOUNTING
 SCALE: N.T.S.

ADAPTER OPTIONS:
 REDUCER, 1" > 3/4"
 COUPLER, 1" > 1"
 ENLARGER, 1" > 1 1/4"
 ADD NIPPLE FOR HEIGHT

THROTTLED END TO ACCEPT ADAPTER
 REFER TO S.D. FROM TYPE OF GPS
 ANTENNA & REQUIRED ADAPTER TYPE

NOTES:

- PROPOSED GENERATOR TO BE AS FOLLOWS:
 - 30 KW EXTERIOR GENERATOR ASSEMBLY
 - KOHLER MODEL #ADREOZK & DRAWING #AD-8855
 - STANDARD FUEL TANK, 200 GALLON TANK, DIESEL
 - COHLER PART #0497091-002
 - DIMENSIONS (APPROX.) 77.5" X 32.5" X 84.0"
 - NET WEIGHT (APPROX.) 2,114 LBS
- GENERATOR TO BE INSTALLED ON CONCRETE PAD PER COMPOUND PLAN.
- OPENING IN PAD TO BE ALIGNED WITH CONDUIT STUB-UPS (ELECTRICAL/ALARM) AND GENERATOR ASSEMBLY TO BE CENTERED ON PAD.
- ANCHOR GENERATOR ASSEMBLY TO PAD USING EPOXY ANCHOR WITH CONCRETE UPON INSTALLATION OF CONDUITS. SOALS AT THE EXTERIOR POLYURETHANE SEALANT, AND FULL OPENINGS IN PAD TO BE SEAMLESSLY CONFORM TO THE CODE. RAINFALL R062 CLASS OF MATERIALS (S: CLAY, SANDY CLAY, CLAYEY SILT, SILT AND SANDY SILT (CL, ML, MH, AND CH) WITH AN ALLOWABLE VERTICAL BEARING PRESSURE OF 1500 PSF (MINIMUM).
- IF POOR SOILS OR UNCONTROLLED FILL OR WORS ARE FOUND, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING BRACKER DESIGN OF THE SITE CONDITIONS FOR FURTHER BRACKER.
- THE PAD IS NOT FROST-PROTECTED AND IS SUBJECT TO FREEZE/THAW MOVEMENT. IT SHALL BE THE RESPONSIBILITY OF OTHERS TO PROVIDE FLEXIBLE CONNECTIONS AND/OR OTHER MEANS TO PREVENT ANY DAMAGE TO THE GENERATOR AND ITS COMPONENTS DUE TO UNCONTROLLED FROST ACTION.
- CONCRETE PAD REBAR SHALL CONFORM TO THE FOLLOWING CHARACTERISTICS:
 - MINIMUM CONCRETE $f_c = 4,500$ PSI, AIR-ENTRAINED.
 - REBAR $f_y = 60$ KSI.
 - TOP SURFACE OF PAD TO BE WITHIN A FLANESS OF $1/8"$.

PREPARED FOR
Vertical bridge
 THE TOWERS, LLC
 22 WEST ATLANTIC AVENUE, SUITE 310
 DELRAY BEACH, FL 33444

NOT FOR
 CONSTRUCTION

DESIGN1
 9873 VALLEY VIEW RD.
 EBEN PRARIE, MN 55444
 TEL: 763.433.8000
 WWW.DESIGN1CF.COM

PROJECT
 US-MN-5477
 FUZE ID: 25431337

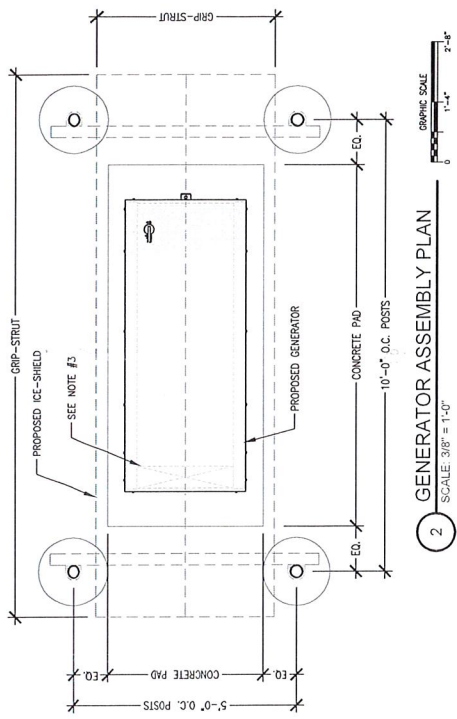
US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 55644

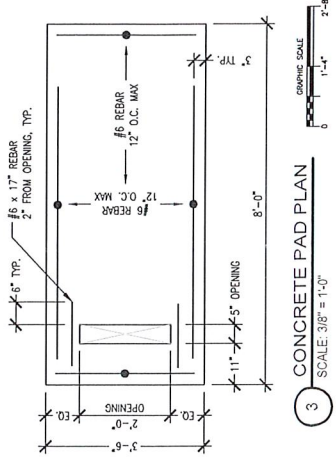
SHEET CONTENTS:
 GENERAL NOTES,
 STANDARD PANK

DRAWN BY: M.T.
 CHECKED BY: S.D.
 REV. A: 02-23-2025
 REV. B: 02-25-2025

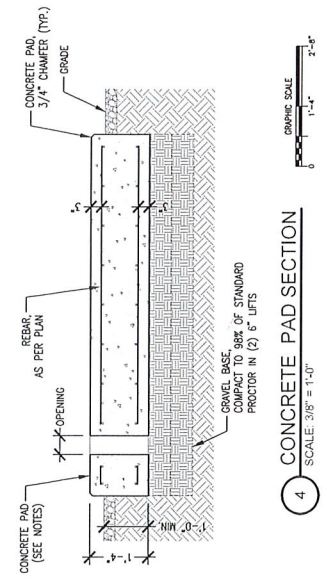
VZW A-5



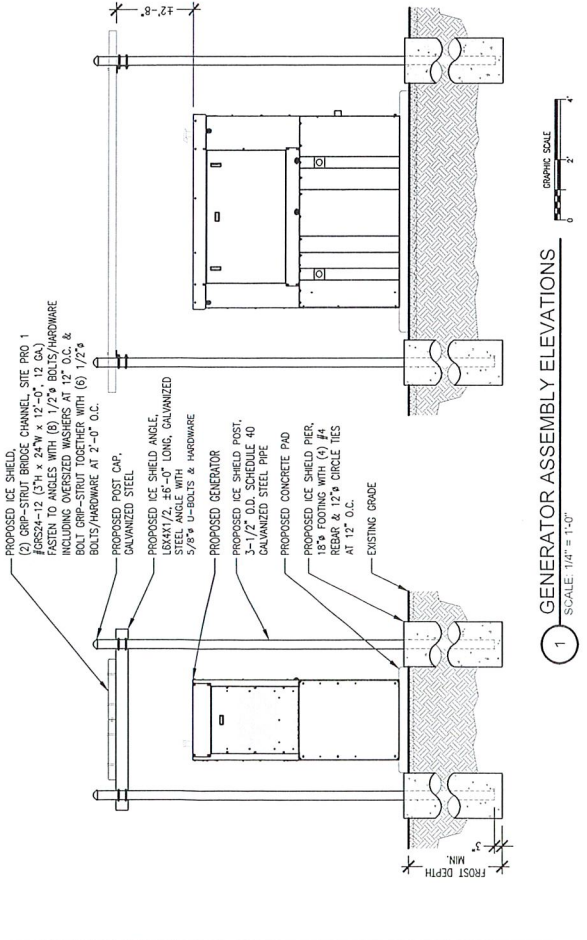
2 GENERATOR ASSEMBLY PLAN
 SCALE: 3/8" = 1'-0"



3 CONCRETE PAD PLAN
 SCALE: 3/8" = 1'-0"



4 CONCRETE PAD SECTION
 SCALE: 3/8" = 1'-0"



1 GENERATOR ASSEMBLY ELEVATIONS
 SCALE: 1/4" = 1'-0"

NOTES:
 1. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ELECTRICAL AND GROUNDING MEETS THE VERIZON NETWORK STANDARD NUMBERS, "NST146" DOCUMENTS TITLES "CELL SITE AND MICROWAVE RADIO STATION ELECTRICAL AND GROUNDING CONSIDERATIONS" PREPARED FOR VERIZON NETWORKS AND ATTACHED TO MAIN ELECTRICAL SPECS AND ATTACHED TO MAIN BUSS BAR.
 2. SEE SHEET G-1 FOR ADDITIONAL NOTES.

PREPARED FOR:

 THE TOWERS, LLC
 22 WEST ATLANTIC AVENUE, SUITE 310
 DELRAY BEACH, FL 33444

NOT FOR CONSTRUCTION

DESIGN 1
 8979 VALLEY VIEW RD.
 EKEN PROHIRE, MN 55544
 (952) 803-9299
 WWW.DESIGN1CENTER.COM

PROJECT:
 US-MN-5477
 FUZE ID: 25431337

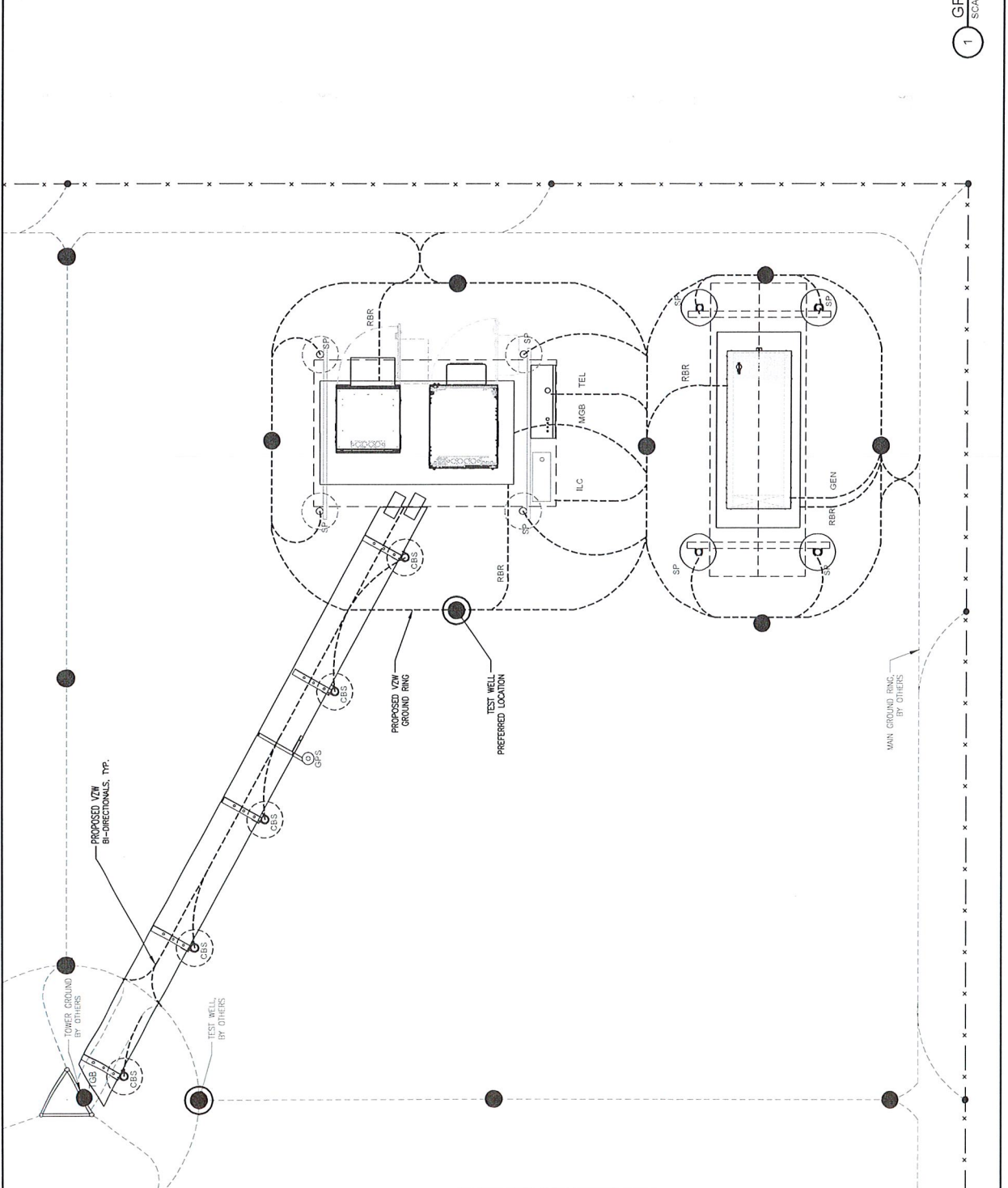
US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

SHEET CONTENTS:
 GROUNDING PLAN

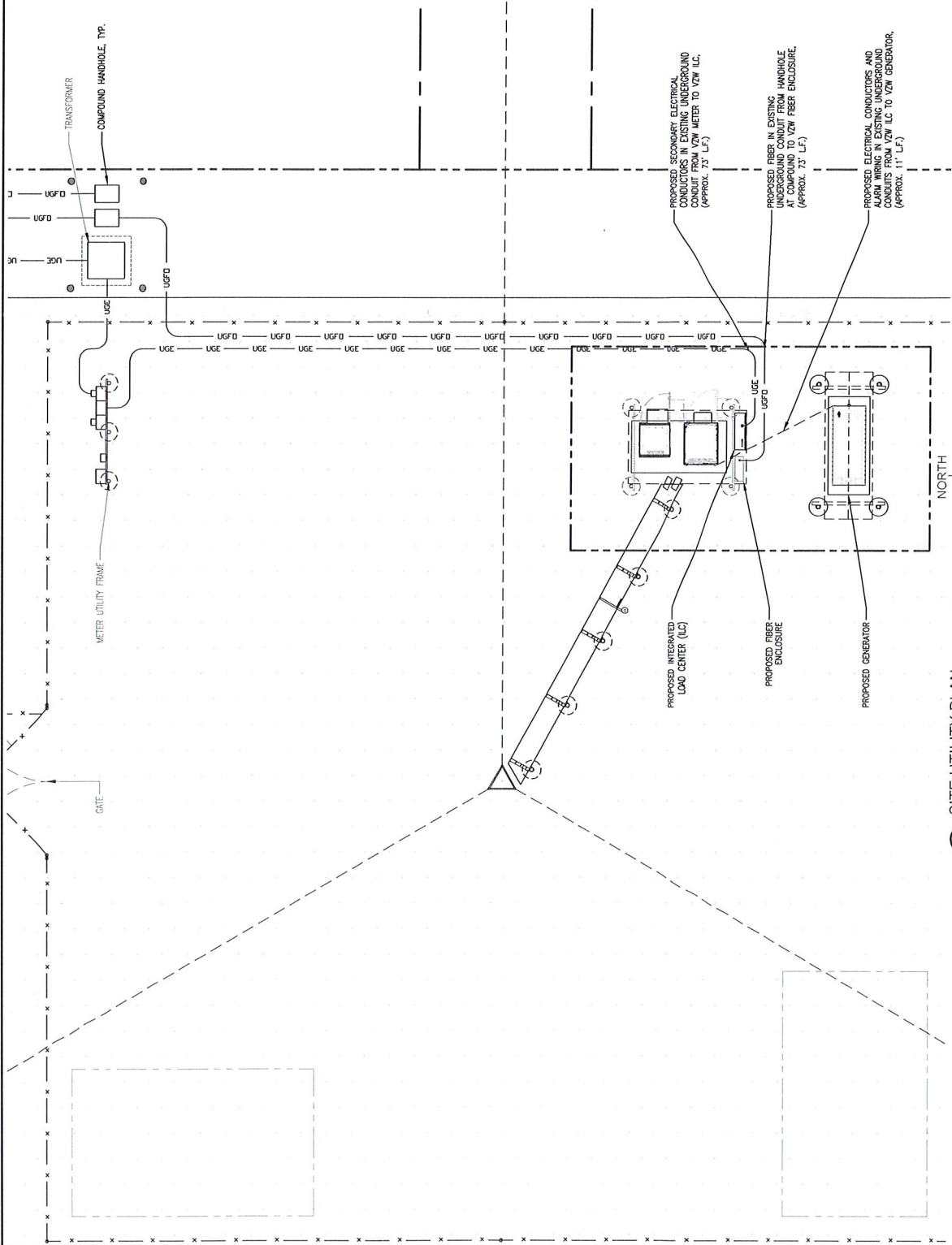
| | |
|--------------|------------|
| DESIGNED BY: | M.T. |
| CHECKED BY: | S.D. |
| REV. A: | 03-24-2023 |
| REV. B: | 03-26-2023 |

VZW G-1



NORTH
 1 GROUNDING PLAN
 SCALE: NTS

POWER DESIGN NOTES:
 POWER TO BE INSTALLED PER UTILITY
 COORDINATION REPORT.
 SEE SHEET C-1 FOR ADDITIONAL NOTES.



1 SITE UTILITY PLAN
 SCALE: 1/8" = 1'-0"

PREPARED FOR:
verticalbridge
 THE TOWERS, LLC
 22 WEST ATLANTIC AVENUE, SUITE 310
 DELRAY BEACH, FL 33444

NOT FOR
 CONSTRUCTION

DESIGN
 6975 VALLEY VIEW RD.
 EKEN PRARIE, MN 55244
 (952) 903-6299
 WWW.DESIGNTEP.COM

PROJECT
 US-MN-5477
 FUZE ID: 25431337

US-MN-5477
 SPRUCE

ST HWY 87
 FRAZEE, MN 56544

SHEET CONTENTS:
 VZW UTILITY PLAN

| | |
|-------------|------------|
| DRAWN BY: | M.T. |
| CHECKED BY: | S.D. |
| DATE: | 05/25/2023 |
| REV. B | 02/26/2023 |

VZW U-1

NOT FOR
 CONSTRUCTION



PROJECT
 US-MN-5477
 FUZE-ID: 25431337

US-MN-5477
 SPRUCE

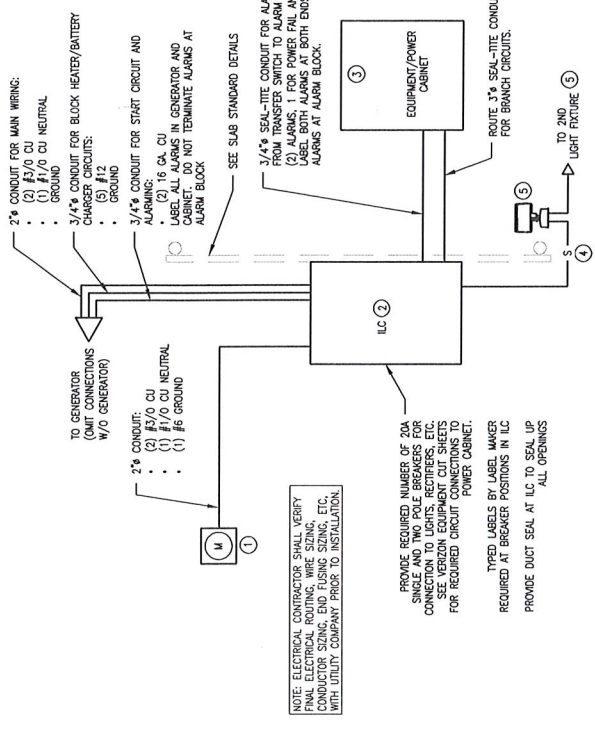
ST HWY 87
 FRAZEE, MN 56544

SHEET CONTENTS:
 CONDUIT ROUTING PLAN
 ONE-LINE ELECTRIC DIAGRAM

| | |
|-------------|------------|
| DRAWN BY: | ML |
| CHECKED BY: | SL |
| REV. A: | 02/28/2026 |
| REV. B: | 02/26/2026 |

VZW U-2

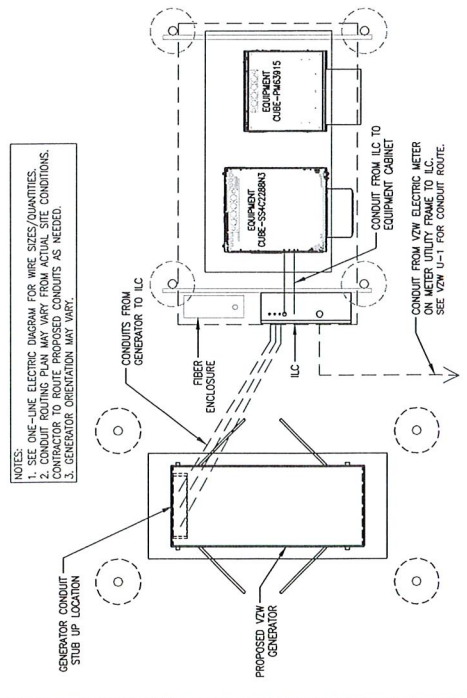
- GENERAL NOTES**
- CONTRACTOR SHALL PERFORM WORK (ELECTRICAL, GROUNDING, & BONDING) IN ACCORDANCE WITH ALL APPLICABLE COVERING STATE & LOCAL CODES AND O.S.H.A. REGULATIONS.
 - ALL CONDUCTORS SHALL BE TYPE THHN UNLESS NOTED OTHERWISE.
 - LABEL METER & DISCONNECT PER NEC.
 - EQUIPMENT AND MATERIALS SHOWN IN DIAGRAM AND LISTED IN KEY (OR APPROVED EQUAL) TO BE PROVIDED BY CONTRACTOR UNLESS NOTED OTHERWISE.



ELECTRICAL EQUIPMENT LIST & KEY

| KEY NOTE | A.L.T. | MANUFACTURER PART NUMBER | MANUFACTURER | DESCRIPTION |
|----------|----------|--------------------------|-------------------------|--|
| 1 | - | - | - | UTILITY CO. APPROVED 200A METER WITH MCS/DISCONNECT |
| 2 | GEN. | A43000-1PH-42-JR | ASCO POWER TECHNOLOGIES | D300L SERIES, SINGLE PHASE, 200A POWER TRANSFER LOAD CENTER (PROVIDED BY VERIZON) |
| 3 | W/O GEN. | A43000-1PH-3RC | - | D300L SERIES, SINGLE PHASE, 200A POWER TRANSFER LOAD CENTER W/CAM-LOCK (PROVIDED BY VERIZON) |
| 4 | - | E557 | DAYTON | PUNCH DOWN ALARM TERMINAL BLOCK (LOCATED WITHIN EQUIPMENT) |
| 5 | - | OULF PE 14 BZ | LITHONIA | LIGHT FIXTURE CONTROL & WEATHERPROOF CASING |
| | - | - | - | OUTDOOR INTEGRATED LED FLOOD LIGHT FIXTURE - MOUNT PER STANDARD DETAILS |

2 ONE-LINE ELECTRIC DIAGRAM
 SCALE: NONE

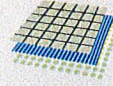


1 CONDUIT ROUTING PLAN
 SCALE: 1/4" = 1'-0"

IMAGINE YOUR AD HERE

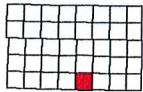
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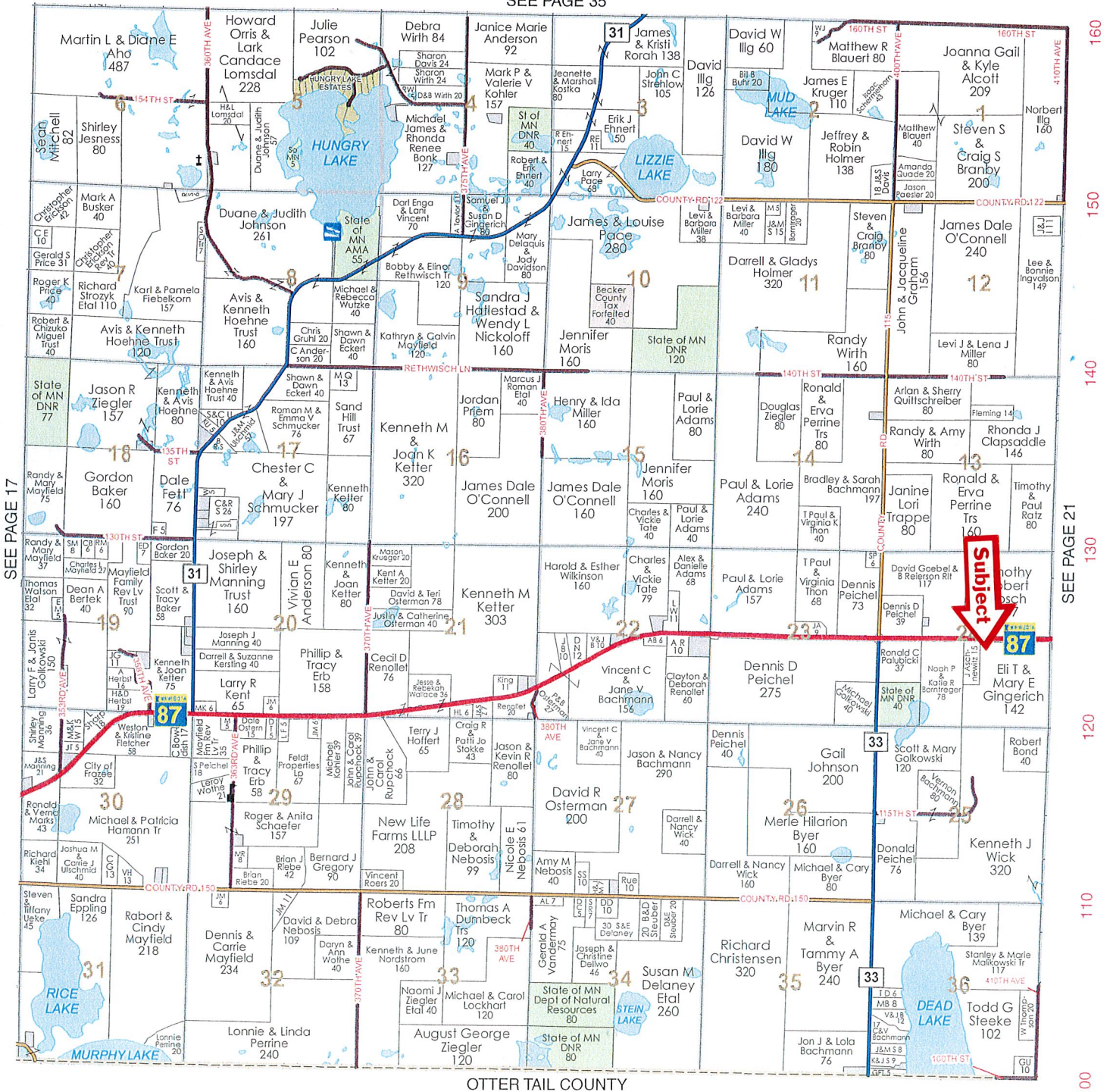


Silver Leaf

Township 138N - Range 39W

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SEE PAGE 35



OTTER TAIL COUNTY



COUNTY OF BECKER

Planning and Zoning

915 Lake Ave, Detroit Lakes, MN 56501
Phone: 218-846-7314 ~ Fax: 218-846-7266

PLANNING COMMISSION NOTICE OF PUBLIC HEARING

****HEARING DATE AND LOCATION****

March 25th, 2026 @ 6:00 P.M.

****3RD FLOOR JURY ASSEMBLY ROOM – BECKER COUNTY COURTHOUSE****

APPLICANT: Vertical Bridge on behalf of Steven F & Leah M Lymburner
27658 Co Rd 156
Osage, MN 56570

Project Location: 45520 Co Hwy 44
Ponsford, MN 56575

APPLICATION AND DESCRIPTION OF PROJECT:

Request a Conditional Use Permit for a one hundred and ninety (190) foot self-support tower with a nine (9) foot lightning rod.

LEGAL LAND DESCRIPTION: Tax ID Number: **05.0013.000** Section 03 Township 140 Range 037; N1/2 W1/2 NW1/4 AKA NW1/4 NW1/4; Carsonville Township

REFER TO BECKER COUNTY ZONING ORDINANCE

Replies/Comments:

Public testimony regarding this application will only be received by email, in writing, or in-person at the hearing. Interested parties are invited to submit to the Becker County Department of Planning and Zoning written facts, arguments, or objectives by 12:00 P.M. the date of the Hearing. These statements should bear upon the suitability of the location and the adequacy of the Project and should suggest any appropriate changes believed to be desirable.

Replies may be addressed to:

PLANNING AND ZONING DEPARTMENT
915 Lake Avenue
Detroit Lakes, MN 56501

EMAIL: nicole.bradbury@co.becker.mn.us

To view all application information on this project please visit:

http://www.co.becker.mn.us/government/meetings/planning_zoning/planning_commission/

If you have questions about the Project, feel free to call 218-846-7314.

Jurisdiction: This Project comes under the Regulatory Jurisdiction of the Becker County Zoning Laws.

Regulatory Authority: This Application will be reviewed according to the provisions of the Becker County Zoning Ordinance. The decision whether to issue a Permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity. That decision will reflect the concern for both protection and utilization of important resources. All factors which may be relevant to the proposal will be considered including the cumulative effects: Land Use, Shoreline Protection, Water Supply and Conservation, Safety, Economics, in General, the Needs and Welfare of the People.

Conditional Use Application Review

Permit # CUP2026-156

Property and Owner Review

| | |
|---|--|
| Owner: Steven F & Leah M Lymburner | Parcel Number(s): 050013000 |
| Mailing Address: 27658 Co Rd 156 Osage, MN 56570 | Site Address: 45520 Co Hwy 44 Ponsford, MN 56575 |
| | Township-S/T/R: CARSONVILLE-03/140/037 |
| | Shoreland? No Name: |

Legal Descr: **N1/2 W1/2 NW1/4 AKA NW1/4 NW1/4**

Conditional Use Details Review

Description of Conditional Use Request: **Construction of a telecommunications and public utility facility, consisting of a cell tower, space for carrier equipment, and a utility backboard within a fenced compound. No water or sewer is required. This will be an unmanned facility.**

1. Describe how the conditional use permit, if granted, will not harm the use and enjoyment of other properties in the immediate vicinity for the purposes already permitted, nor substantially diminish or impair property values within the immediate vicinity.

The proposed communications tower will not negatively affect the use, enjoyment, or value of surrounding properties. The structure is located on a rural parcel with low residential density, and the tower site has been positioned to maximize distance from nearby homes and active land uses. All required setbacks, fall-zone clearances, and safety standards will be fully met or exceeded, ensuring that the tower does not interfere with existing agricultural, residential, or recreational activities in the area.

The tower produces no noise, odor, traffic, or emissions that would impact neighboring properties. Its operational footprint is minimal, with only occasional maintenance visits and no ongoing activity that would alter the character of the surrounding land. Modern monopole and self-supporting tower designs also reduce visual impact compared to older lattice structures, and the facility will include neutral-colored finishes to blend with the natural environment

2. Describe how establishing the conditional use will not impede the normal, orderly development and improvement of surrounding vacant property for uses predominant in the area.

The proposed communications tower will not impede the normal or orderly development of surrounding vacant properties. The tower site is located on a rural parcel where agricultural, forestry, and low-density residential uses are predominant. These land uses are not sensitive to the minimal footprint or operational characteristics of a wireless communications facility. The tower occupies only a small leased area, and the remainder of the parcel remains available for its existing and future permitted uses.

The facility does not generate traffic, noise, odor, or other impacts that would restrict or discourage development on nearby properties. Because the tower is a passive, low-activity use, it does not place additional demands on local infrastructure or public services that could affect future growth in the area. All required setbacks and fall-zone clearances will be met or exceeded, ensuring that the tower does not limit how adjacent landowners may develop their property under the zoning district's permitted uses.

Wireless infrastructure is recognized as a necessary public utility that supports economic development, public safety, and modern communication needs.

3. Describe how adequate utilities, access roads, drainage and other necessary facilities have been or are being provided.

Adequate utilities, access, and site infrastructure are available to fully support the proposed communications tower. The facility requires only minimal electrical service, which will be provided through an existing nearby utility connection without the need for new public infrastructure. No water, sewer, or other municipal utilities are required for tower operation.

Access to the site is provided by an existing driveway or private access road that can accommodate occasional maintenance vehicles without generating additional traffic or requiring improvements to public roads. The tower compound will include a gravel surface and appropriate grading to ensure proper drainage. Stormwater will be managed on-site through natural infiltration, and no runoff will be directed toward

adjacent properties or public rights-of-way.

Because the tower is a low-impact, low-demand utility structure, it does not require additional public services or infrastructure upgrades.

4. Describe how adequate measures have been or will be taken to provide sufficient off-street parking and loading space to serve the proposed use.

N/A

5. Describe how adequate measures have been or will be taken to prevent or control offensive odor, fumes, dust, noise and vibration, so none of these will constitute a nuisance, and to control lighted signs and other lights so that no disturbance to neighboring properties will result.

The proposed communications tower is a passive utility structure and does not generate odor, fumes, dust, or vibration during normal operation. The facility contains no combustion sources, processing equipment, or mechanical systems that would emit pollutants or create nuisance conditions. Construction activities will be temporary and limited in duration, and standard best management practices—such as dust suppression, erosion control, and proper equipment maintenance—will be used to minimize short-term impacts.

Operational noise is negligible. The tower does not include fans, generators, or other continuously running equipment. Any backup power system, if installed, will be fully enclosed and used only during rare emergency outages or periodic testing, consistent with county noise standards. These activities will not create noise levels that would disturb neighboring properties.

Lighting will comply with FAA requirements, if applicable, and will be limited to the minimum intensity and number of fixtures necessary for aviation safety.

Additional shoreland questions below (if applicable)

6a. Describe how adequate measures have been or will be taken to assure that soil erosion or other possible pollution of public waters will be prevented, both during and after construction.

6b. What measures have been taken to assure that the visibility of structures and other facilities as viewed from public waters will be limited.

6c. What measures have been taken to assure that the site is adequate for water supply and on-site sewage treatment.

6d. Describe how the types, uses and number of watercrafts that the project will generate can be safely accommodated.

Business Plan Review

Name of Business:

Business Owners:

Business Type: If 'Other', explain:

Type of Merchandise:

Type of Service:

Hours and Days of Operation:

Number of Employees:

Off-Street Parking Plan:

Size of structure to be used for Business:

New or Existing:

Signage Plan:

Exterior Lighting Plan:

Known Environmental Hazards:

Additional Business Plan Information:

PROJECT DESCRIPTION:
CONSTRUCTION OF TELECOMMUNICATIONS AND PUBLIC UTILITY FACILITY, INCLUDING THE CONSTRUCTION OF A UTILITY BACKBOARD WITHIN A FENCED COMPOUND, NO WATER OR SEWER IS REQUIRED. THIS WILL BE AN UNMANNED FACILITY.

CODE COMPLIANCE:

- ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
1. INTERNATIONAL BUILDING CODE
 2. NATIONAL ELECTRIC CODE
 3. NFPA101: LIFE SAFETY CODE
 4. IFC
 5. AMERICAN CONCRETE INSTITUTE
 6. CONSTRUCTION INSTITUTE OF STEEL
 7. MANUAL OF STEEL CONSTRUCTION, 13TH EDITION
 8. ANS/TIA/EIA-222
 9. INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
 11. IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST EDITION
 12. TELECORDIA GR-1275
 13. ANSI/TIA-31, TECHNICAL CODE
 14. NATIONAL FIRE PROTECTION ASSOCIATION
 15. UNIFORM PLUMBING CODE
 16. LOCAL BUILDING CODE
 17. CITY/COUNTY ORDINANCES
 18. STATE BUILDING CODE



THE TOWERS LLC
US-MN-5481

PONSFORD
45520 COUNTY HWY 44
PONSFORD, MN 56475
190' SELF SUPPORT TOWER



10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
CONSTRUCTION DEPT. (952) 946-4700

SITE NAME: MN05 PONSFORD
MDG: 20171617671
FUZE PROJECT ID: 17096918

PREPARED FOR

verticalbridge
THE TOWERS, LLC
22 WEST ATLANTIC AVENUE, SUITE 310
DELRAY BEACH, FL 33444

NOT FOR
CONSTRUCTION



8973 VALLEY VIEW RD
EDEN PRAIRIE, MN 55344
(952) 903-9299
WWW.DESIGNREP.COM

PROJECT
US-MN-5481
FUZE ID: 17096918

US-MN-5481
PONSFORD

45520 COUNTY HWY 44
PONSFORD, MN 56475

SHEET CONTENTS:
PROJECT DESCRIPTIONS
PROJECT INFORMATION
VICINITY MAP
PROJECT INFORMATION
SHEET INDEX
ISSUE SUMMARY
DRAWING APPROVALS
CONTACTS

DRAWN BY: TJS
CHECKED BY: SJD
SCALE: 0.5"=1'-0"
REV. 2: 03-03-20

T-1

| CONTACTS | |
|---------------------------------------|--|
| PROPERTY OWNER: | STEVEN F & LEAH M LYMBURNER 27938 COUNTY ROAD 156 OSAGE, MN 56570 (218) 292-2107 |
| LESSOR / LICENSOR: | THE TOWERS, LLC 22 WEST ATLANTIC AVENUE, SUITE 310 DELRAY BEACH, FL 33444 (904) 852-4689 |
| LESSEE: | VERIZON WIRELESS 22 WEST ATLANTIC AVENUE, SUITE 310 DELRAY BEACH, FL 33444 (904) 852-4689 |
| POWER UTILITY COMPANY CONTACT: | ITASCA MANTRAP COOP ELEC (218) 732-3377 |
| TELCO UTILITY COMPANY CONTACT: | E. OTTERTAL TELE CO (218) 547-1234 |
| DESIGNER: | DESIGN I, OF EDEN PRAIRIE 8973 VALLEY VIEW ROAD EDEN PRAIRIE, MN 55344 (952) 903-9299 |
| STRUCTURAL ENGINEER (OWNER): | T.B.D. |
| SITE ACQUISITION: | BUELL CONSULTING, INC. 720 MAIN ST, SUITE 200 ST. PAUL, MN 55119 |

| DRAWING APPROVALS | | |
|------------------------|------|------|
| JOB TITLE | NAME | DATE |
| VERTICAL BRIDGE | | |
| RF ENGINEER | | |
| CONSTRUCTION ENGINEER | | |
| TRANSPORT ENGINEER | | |
| EQUIPMENT ENGINEER | | |
| REAL ESTATE SPECIALIST | | |

| SHEET INDEX | |
|-------------|--|
| SHEET | SHEET DESCRIPTION |
| T-1-T2 | PROJECT TITLE SHEET & GENERAL NOTES |
| - | SURVEY |
| A-1 | OVERALL SITE PLAN AND TOWER ELEVATION |
| A-2 | ENLARGED SITE PLAN |
| A-3 | SITE PREP & GRADING NOTES AND DETAILS |
| A-4-A-5 | FENCE DETAILS |
| A-6 | SIGN DETAILS |
| A-7 | MISC. DETAILS |
| A-8 | SITE PHOTOS |
| G-1-G-3 | GROUNDING NOTES, PLAN AND DETAILS |
| U-1-U-2 | SITE UTILITY PLANS, DETAILS AND NOTES |
| VZW A-1 | VERIZON SITE PLAN |
| VZW A-2 | RFDS INFO, MOUNTING DETAIL AND ONE-LINE DIAGRAM |
| VZW A-3 | CABINET AND BASE EQUIPMENT DETAILS |
| VZW A-4 | CABLE ICE BRIDGE, GPS AND MISC. DETAILS |
| VZW A-5 | GENERATOR DETAILS |
| VZW G-1 | VERIZON GROUNDING PLAN |
| VZW G-2 | VERIZON GROUNDING DETAILS AND NOTES |
| VZW U-1 | VERIZON UTILITY PLAN, DETAILS AND NOTES |
| VZW U-2 | CONDUIT ROUTING PLAN AND ONE-LINE ELECTRIC DIAGRAM |

| ISSUE SUMMARY | | |
|---------------|-------------------|--------------|
| REV | DESCRIPTION | SHEET/DETAIL |
| 1 | ISSUED FOR REVIEW | ALL |
| 2 | ISSUED FOR REVIEW | ALL |



| PROJECT INFORMATION | |
|-------------------------------------|---|
| VERTICAL BRIDGE SITE NUMBER: | US-MN-5481 |
| VERTICAL BRIDGE SITE NAME: | PONSFORD |
| VERIZON SITE NAME: | MN05 PONSFORD |
| VERIZON MDG: | 20171617671 |
| VERIZON FUZE PROJECT ID: | 17096918 |
| SITE ADDRESS: | 45520 COUNTY HWY 44 PONSFORD, MN 56475 |
| COUNTY: | BECKER |
| LATITUDE (DECIMAL): | N 46.976796° |
| LONGITUDE (DECIMAL): | W 95.351216° |
| LATITUDE (DMS): | N 46° 58' 36.36" |
| LONGITUDE (DMS): | W 95° 21' 04.38" |
| GROUND ELEVATION: | 1577.8' AMSL |
| STRUCTURE TYPE: | SELF SUPPORT TOWER |
| STRUCTURE HEIGHT: | 159' AGL |
| RFDS FORM DATED: | 06-24-25 |

CALL 811 FOR UNDERGROUND UTILITIES PRIOR TO DIGGING EMERGENCY: CALL 911

NOT FOR
 CONSTRUCTION



PROJECT
 US-MN-5481
 FLUZE ID: 17096918
 US-MN-5481
 PONSFORD

45520 COUNTY HWY 44
 PONSFORD, MN 56475

SHEET CONTENTS:
 GENERAL NOTES

| | |
|-------------|----------|
| DRAWN BY: | TLS |
| CHECKED BY: | SJD |
| REV. 1: | 06-02-20 |
| REV. 2: | 02-05-20 |

T-2

CONTRACTOR NOTES

VERTICAL BRIDGE TIMELINE EXPECTATIONS

- ONCE NTP HAS BEEN ISSUED, CONTRACTOR HAS (3) BUSINESS DAYS TO PROVIDE A SCHEDULE TO VERTICAL BRIDGE CONSTRUCTION MANAGER AND PROJECT MANAGER.
- CONSTRUCTION STARTS WITHIN 7 DAYS OF NTP RECEIPT.
- DAILY SAFETY REPORTS ARE REQUIRED.
- ONLY SITE UPDATES WITH PHOTOS ARE REQUIRED.
- TOWER STACKED (OTHER) WITHIN 28 DAYS OF NTP RECEIPT.
- CLOSEOUT APPROVAL WITHIN 60 DAYS OF NTP RECEIPT.

VERTICAL BRIDGE CM NOTES

- AND EVERY 30' (OR AT ANY ROAD) WITH 2" CONDUIT FOR THE UT FIBER PER THE CONSTRUCTION DRAWINGS. MARK HAND-HOLES UT FIBER.
- B. CONTRACTOR SHALL SUPPLY AND INSTALL A SEPARATE HAND-HOLE AT THE ROW, AT THE COMPOUND AND EVERY 300' (OR AT ANY ROAD) WITH 2" CONDUIT FOR THE DARK FIBER PER THE CONSTRUCTION DRAWINGS. MARK HAND-HOLES DARK FIBER/FIBER.
- C. FIBER TO FOLLOW ACCESS ROAD TO ROW ALWAYS.
- D. CONTRACTOR TO PROVIDE AND INSTALL CARLON EXPANSION JOINT CONNECTIONS AT CABINETS/SHELTER LOCATION PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- E. CONTRACTOR SHALL PROVIDE 2" SPR-11 HOPE CONDUIT FOR FIBER CONDUIT AS NOTED ON DRAWINGS WHEN DIRECTIONAL BORING IS UTILIZED.
- 10.00 VERTICAN CHAS
- A. CONTRACTOR SHALL PROVIDE LUMP SUM FEE FOR ALL VERTICAN LINE ITEMS UNDER TENANT CHAS ON BID DOCUMENT. THIS INCLUDES SET AND CONNECTIONS OF VERTICAN'S EQUIPMENT/GENERATOR PADS, FUEL TANKS, EQUIPMENT/GENERATOR ELECTRICAL, TELCO/FIBER CONDUITS, EQUIPMENT GROUNDING AND ICE BRIDGE.
- 11.00 VERTICAN ANTENNA MOUNT(S)
- A. CONTRACTOR SHALL ORDER THE ANTENNA MOUNT AND CONFIRM THE ITEM DESCRIPTION THROUGH VERTICAN.
- B. CONTRACTOR WILL BE REQUIRED TO ORDER ANTENNA MOUNT ASAP TO AVOID ANY DELAYS TO STACK THE TOWER.
- VERTICAN CONSTRUCTION SCOPE OF WORK:
- 1.00 VERTICAN
- A. CONTRACTOR SHALL PROVIDE A LUMP SUM FEE IN "TENANT LAB" FOR THE INSTALL OF VERTICAN LAB INCLUDING ANY REQUIRED TESTING AND MATERIALS AS DIRECTED BY VERTICAN PERSONNEL FOR A TYPICAL MARKET COLLOCATION.
- 2.00 CHAS
- A. CONTRACTOR SHALL PROVIDE A LUMP SUM FEE IN "TENANT CHAS" FOR ALL VERTICAN CIVIL WORK INCLUDING EQUIPMENT/GENERATOR PADS AND EQUIPMENT SUPPORTS (I.E. PLUMBS ETC.), CARRIER GROUNDING, ELECTRICAL CONDUITS & CONDUCTORS AND H-FRAME. EQUIPMENT SET AS WELL AS ANY OTHER SERVICES AND/OR MATERIALS AS DIRECTED BY VERTICAN FOR A TYPICAL MARKET COLLOCATION.
- 3.00 MOUNTS
- A. CONTRACTOR SHALL PROVIDE A LUMP SUM FEE IN "TENANT MOUNT" FOR PROVIDING THE MOUNT ONLY (PRICE OF MOUNT INSTALLATION TO BE INCLUDED IN "TENANT LAB").
- 4.00 STARTUP COMMISSIONING
- A. CONTRACTOR SHALL PROVIDE LUMP SUM FEE UNDER BID CLARIFICATION/EXCEPTIONS SECTION FOR COMMISSIONING AND START-UPS (AS REQUIRED BY STANDARD VERTICAN INSTALL). VERTICAN IS RESPONSIBLE FOR PAYMENT OF THESE SERVICES.
- 5.00 VERTICAN POWER SERVICE
- A. CONTRACTOR/VERTICAN CM RESPONSIBLE FOR SETTING UP VERTICAN'S POWER ACCOUNT OR TRANSFER OF INITIAL SERVICE ACCOUNT FROM VERTICAL BRIDGE TO VERTICAN.
1. CONTRACTOR RESPONSIBLE FOR REPORTING POWER UPDATES.
2. CONTRACTOR RESPONSIBLE FOR TRACKING AND CONFIRMING METER SET.
3. PHOTO DOCUMENTATION REQUIRED.
- B. VERTICAN POWER SERVICE SHALL BE 200 AMPS
- C. PERFORM VERTICAN ELECTRICAL POWER SERVICE INSTALL. SEE CONSTRUCTION DRAWINGS FOR POWER ROUTING.
- 6.00 THE DESIGNER/E.O.R. MAKES NO WARRANTY, EXPRESSED OR IMPLIED, ON THE STRUCTURAL ADEQUACY FOR PROPRIETARY BRACKETS, CLIPS, PARTS, FROM A MANUFACTURER.
- VERTICAL BRIDGE CONSTRUCTION SCOPE OF WORK:
- 1.00 PERMITTING
- A. CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL PERMITS AND ALL REQUIRED INSPECTIONS.
- 2.00 SITE CLEARING
- A. CONTRACTOR SHALL CLEAR ACCESS EASEMENT AND LEASE AREA OF ALL TREES AND STUMPS. REMOVE AND DISPOSE OF ALL DEBRIS. CONTRACTOR SHALL NOT DISTURB AREA OUTSIDE OF LIMITS OF DISTURBANCE.
- 3.00 ACCESS ROAD
- A. CONTRACTOR SHALL COMPLETE GRAVEL ACCESS DRIVE TO TOWER COMPOUND PER CONSTRUCTION DRAWINGS OR AT A MINIMUM OF VERTICAL BRIDGE STANDARDS.
- B. 18" CULVERT PIPE IS VERTICAL BRIDGE MINIMUM STANDARD UNLESS DUT ENFORCED SIZE IS REQUESTED. SEE CONSTRUCTION DRAWINGS GRADING PLAN FOR SITE CULVERT LOCATION(S) AND SIZES.
- A. CONTRACTOR SHALL INSTALL STYME LOCK SYSTEM AND VERTICAL BRIDGE LOCK ON COMPOUND GATE.
- A. CONTRACTOR SHALL LOCK COMBO (0951)
- B. CONTRACTOR SHALL INSTALL MUSHROOM AND GATE STOPS.
- C. CONTRACTOR SHALL INSTALL 50"x50"x6" CHAINLINK FENCE WITH (5) RUNS OF BARBED WIRE ON TOP FOR MONITOR AND GATED TOWERS UNLESS NOTED OTHERWISE. (75'X75'X6" FENCED COMPOUND FOR SST TOWER SITES UNLESS NOTED OTHERWISE)
- 5.00 TOWER AND FOUNDATION
- A. CONTRACTOR SHALL COORDINATE DELIVERY OF ANCHOR BOLTS, TEMPLATE AND TOWER STEEL WITH TOWER VENDOR.
- B. CONTRACTOR SHALL UTILIZE SUPPLIED FOUNDATION DESIGN FOR TOWER. REBAR AND CONCRETE INSTALLATION SHALL BE INSPECTED AND TESTED BY A 3RD PARTY COMPANY AND SUBMIT TEST AND INSPECTION REPORTS TO VERTICAL BRIDGE. (SPOILS FROM FOUNDATION SHALL BE REMOVED FROM SITE)
- C. 3 DAY / 7 DAY / 28 DAY BREAK TEST REQUIRED. BREAK TEST MUST BE SUBMITTED FOR REVIEW PRIOR TO TOWER STACK.
- D. CONTRACTOR SHALL INSTALL TOWER, ALL ASSOCIATED STEP BOLTS, SAFETY CLIMB EQUIPMENT, LIGHTNING ROD, WAVEGUIDE DODGER AND ALL MISCELLANEOUS TOWER PARTS.
- E. CONTRACTOR SHALL CONFORM TO SUPPLIED FMA HEIGHT VERIFICATION.
- 6.00 TOWER LIGHTING
- A. TOWER LIGHTING EQUIPMENT SHALL BE INSTALLED BY LIGHTING MANUFACTURER.
- B. CONTRACTOR SHALL SUPPLY AND INSTALL 100A SUB-PANEL WITH (3) 20 AMP BREAKERS FOR TOWER LIGHTING IF REQUIRED.
- C. CONTRACTOR SHALL SUPPLY AND INSTALL (1) GFI OUTLET AT SUB-PANEL LOCATION FOR TOWER LIGHTING IF REQUIRED.
- D. CONTRACTOR SHALL SUPPLY AND INSTALL (1) 2" CONDUIT FROM SUB-PANEL LOCATION TO TOWER LEG WITH WEATHER-HEAD IF REQUIRED.
- A. CONTRACTOR SHALL SUPPLY AND INSTALL A 4-GANG 800 AMP METER PANEL ON A NEW 8" H-FRAME.
- B. H-FRAME TO BE CONSTRUCTED TO HOLD 4-GANG METER BASE ON FRONT WITH METERS FACING OUT OF COMPOUND.
- C. H-FRAME TO BE CONSTRUCTED TO HOLD TOWER LIGHTING SUB-PANEL AND LIGHTING CONTROLLER ON FRONT ALONGSIDE METER BASE.
- D. CONTRACTOR SHALL SUPPLY GFI ALL WEATHER RECEPTACLES ON H-FRAME.
- E. CONTRACTOR SHALL SUPPLY AND INSTALL 500-WATT METAL HALIDE FLOOD LIGHT 120 VOLT WITH TIMER SWITCH.
- 8.00 POWER SERVICE
- A. CONTRACTOR SHALL USE PROVIDED UTILITY REPORT AND CONSTRUCTION DRAWINGS TO BID POWER FROM POWER DEMARC.
- B. CONTRACTOR SHALL BE IN CONSTANT COMMUNICATION WITH POWER COMPANY UNTIL POWER IS ACQUIRED AT MULTI-METER FRAME.
- C. CONTRACTOR SHALL NOTIFY UTILITY PROVIDER OF START OF CONSTRUCTION.
- D. CONTRACTOR SHALL CONDUCT A SECOND POWER WALK WITH UTILITY PROVIDER AT START OF CONSTRUCTION.
- E. IF CHANGES TO THE SCOPE OF WORK ARE MADE BY THE UTILITY PROVIDER AFTER CONSTRUCTION START, CONTRACTOR SHALL NOTIFY VERTICAL BRIDGE CM/PM IMMEDIATELY.
- 9.00 VERTICAN TELCO/FIBER SERVICE INSTALL BY VERTICAL BRIDGE
- A. CONTRACTOR SHALL SUPPLY AND INSTALL A SEPARATE HAND-HOLE AT THE ROW, AT THE COMPOUND

SITE SURVEY FOR: THE TOWERS, LLC



PROPERTY OWNER:
**STEVEN F. LYMBURNER
LEAH M. LYMBURNER**

PARCEL NO:
050013000

ZONED:
AGRICULTURE

DEED REFERENCED:
INSTRUMENT NO. 516506

VERTICAL BRIDGE SITE NAME:
PONSFORD

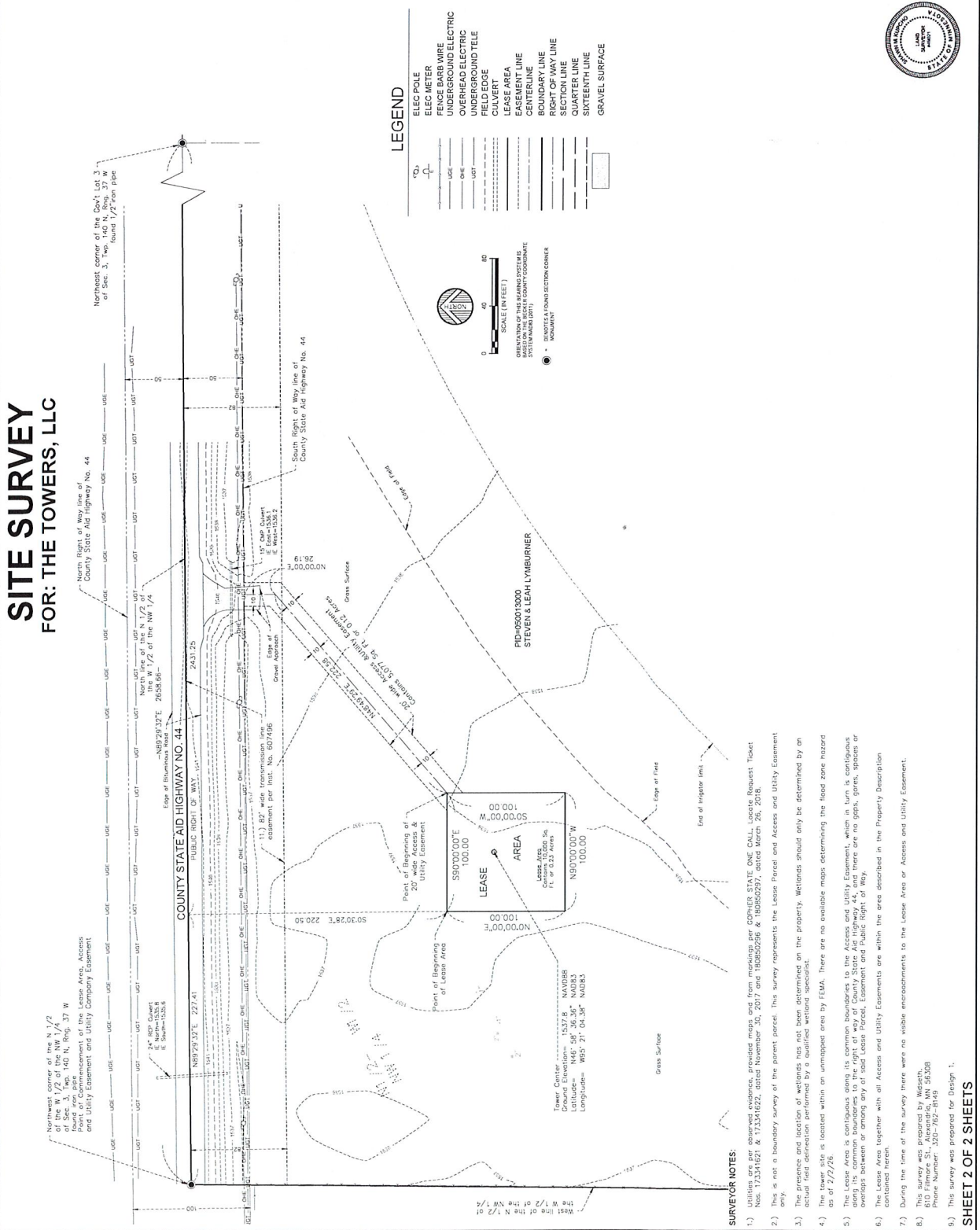
VERTICAL BRIDGE SITE NUMBER:
US-MN-5481

SITE ADDRESS:
**45520 CO HWY 44, Ponsford,
Becker County, MN 56575**

I HEREBY CERTIFY TO: Vertical Bridge REIT, LLC, a Delaware limited liability company, its subsidiaries, and their respective successors and/or assigns; its leaders, and administrative agents and each of their respective successors and/or assigns; and TOWER TITLE, LLC, a Minnesota limited liability company, its leaders, and administrative agents and each of their respective successors and/or assigns, that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

SIGNATURE: *Shawn M. Kujala*
SHAWN M. KUJALA, L.S.
DATE: 02/15/18 LICENSE # 49021

| | | | | |
|------------|---------|---|------|-----------|
| NO. | DATE | BY | CHK. | APP'D. |
| 1 | 2/27/18 | UPDATED TITLE COMMITMENT, SHEET LAYOUT, CERTIFICATION | BAW | JR |
| 2 | | REVISIONS | | |
| FIELD WORK | | 12/7/17 | CHK. | JFB/MB |
| | | CHECKED BY: | SMK | DRAWN BY: |

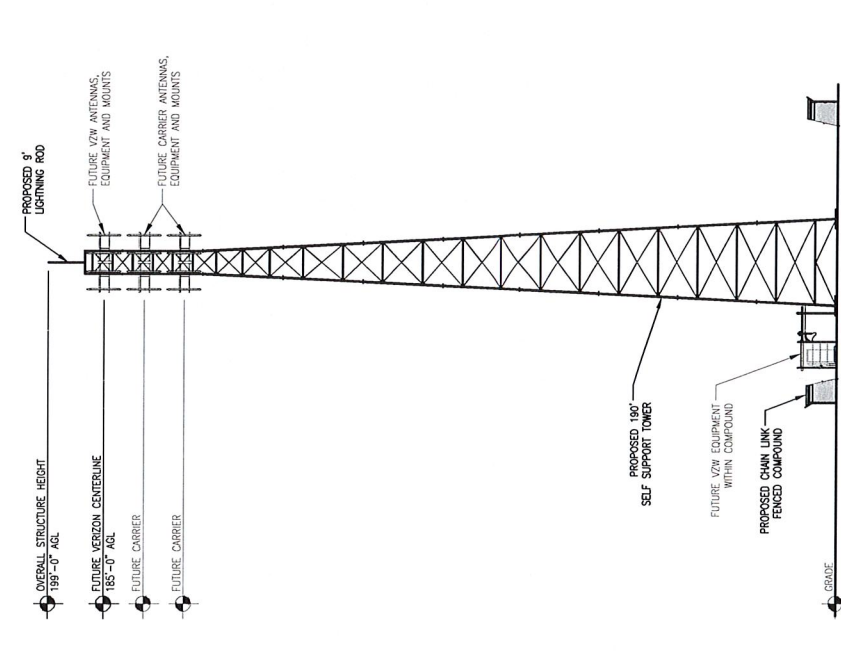


SURVEYOR NOTES:

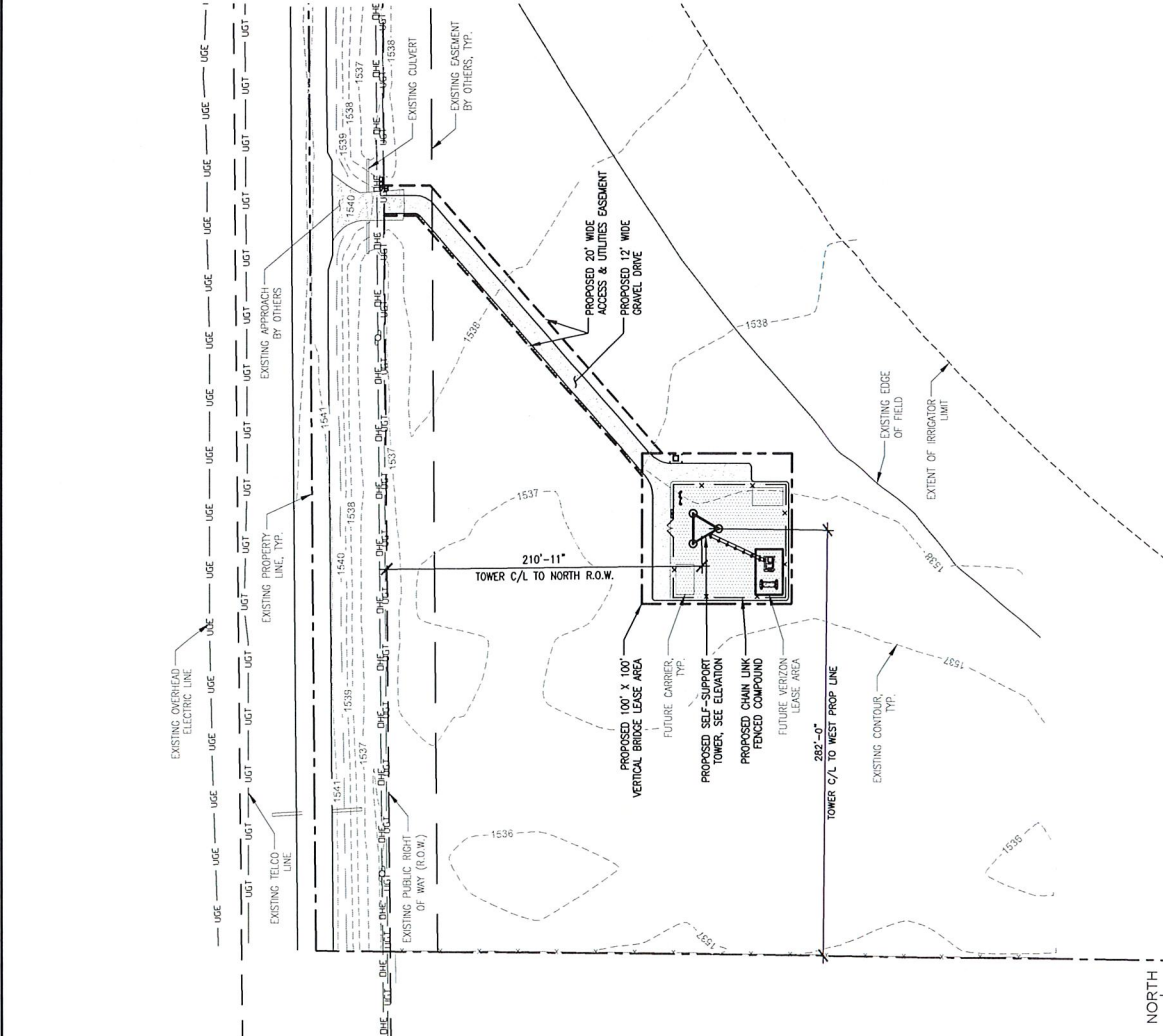
- 1.) Utilities are per observed evidence, provided maps and from markings per Gopher State ONE CALL, Locate Request Ticket Nos. 173341621 & 173351622, dated November 30, 2017 and 180502996 & 180502997, dated March 26, 2018.
- 2.) This is not a boundary survey of the parcel. This survey represents the Lease Parcel and Access and Utility Easement only.
- 3.) The presence and location of wetlands has not been determined on the property. Wetlands should only be determined by an actual field determination performed by a qualified wetland specialist.
- 4.) The tower site is located within an unimproved area by FEMA. There are no available maps determining the flood zone hazard as of 2/17/18.
- 5.) The Lease area is contiguous along its western boundaries to the Access and Utility Easement, which in turn is contiguous along its eastern boundary to the County State Aid Highway No. 44. All easements are shown on the plat, shown, spaces or overlaps between or among any of said Lease Parcel, Easement and Public Right of Way.
- 6.) The Lease Area together with all Access and Utility Easements are within the area described in the Property Description contained herein.
- 7.) During the time of the survey there were no visible encroachments to the Lease Area or Access and Utility Easement.
- 8.) This survey was prepared by Wiseth
810 Fillmore St., Alexandria, MN 56208
Phone Number: 202-762-8149
- 9.) This survey was prepared for Design 1.

NOTES:

1. THESE DRAWINGS DO NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, OF THE ACCURACY OF THE STRUCTURAL ANALYSES AND THE PERFORMANCE OF THE COMPLETED CONSTRUCTION AS SHOWN ON THESE DOCUMENTS AND THE STRUCTURAL ANALYSES.
2. NO STRUCTURAL ANALYSIS FOR THE TOWER OR FOUNDATION HAVE BEEN PERFORMED AS PART OF THESE DRAWINGS. THE STRUCTURAL ANALYSIS FOR THE TOWER AND FOUNDATION ARE BY THE TOWER SUPPLIER AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.
3. PLEASE COORDINATE ANY STRUCTURAL CONCERNS MATTERS OR ANY LOADING MODIFICATIONS TO THE CONSULTANT WHO AUTHORED THE ANALYSIS AND NOTIFY DESIGN 1 IMMEDIATELY OF THE ISSUE.
4. TOWER FOUNDATION AND THE ACCESS DRIVE TO BE EXISTING AND DEMONSTRATED IN ACCORDANCE WITH RECOMMENDATIONS AND SPECIFICATIONS OF THE GEOTECHNICAL REPORT. DISCREPANCIES BETWEEN THE REPORT AND THE OTHER DOCUMENTS TO BE IMMEDIATELY REPORTED TO THE DESIGNER.
5. TOWER TO BE ERRECTED AND INSTALLED IN ACCORDANCE WITH TOWER MANUFACTURER'S DRAWINGS NOT INCLUDED WITH THIS PACKAGE. DISCREPANCIES BETWEEN TOWER DRAWINGS AND DESIGNER DRAWINGS TO BE REPORTED THE DESIGNER IMMEDIATELY.
6. CONTRACTOR TO ENSURE TIP OF ANTENNAS DO NOT EXCEED TOWER HEIGHT.
7. ELEVATION IS SHOWN FOR GENERAL DIAGRAMMATIC PURPOSES ONLY. DO NOT SCALE.



2 TOWER ELEVATION
 SCALE: 1" = 30'-0"



1 OVERALL SITE PLAN
 SCALE: 1" = 80'-0"

PREPARED FOR

verticalbridge
THE TOWERS, LLC
22 WEST ATLANTIC AVENUE, SUITE 310
DELRAY BEACH, FL 33444

NOT FOR
CONSTRUCTION

DESIGN
8973 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55344
WWW.DESIGN1.COM

PROJECT
US-MN-5481
FUZE ID: 17096918

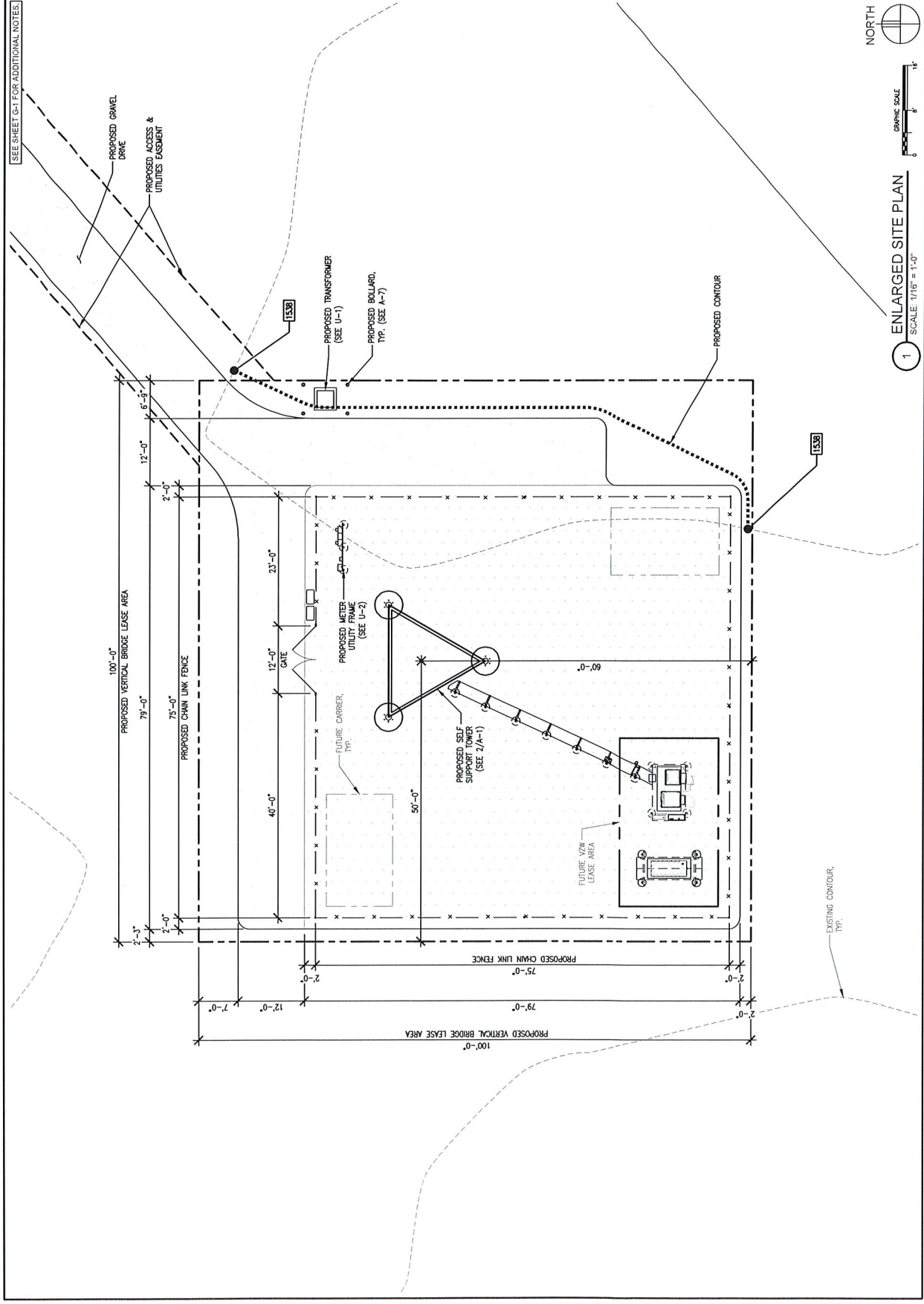
US-MN-5481
PONSFORD

45520 COUNTY HWY 44
PONSFORD, MN 56475

SHEET CONTENTS:
ENLARGED SITE PLAN

| | |
|-------------|----------|
| DRAWN BY: | TLS |
| CHECKED BY: | SJD |
| REV. 1: | 08/02/25 |
| REV. 2: | 02/03/26 |

A-2



SEEDING GUIDELINES:
FINAL STABILIZATION OF ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, SHALL BE LOANED AND SEEDED. LOAM SHALL BE PLACED AT A MINIMUM COMPACTED DEPTH OF 4". RECOMMENDED SEEDING DATES FOR PERENNIAL VEGETATION SHALL BE BETWEEN JUNE 15 THROUGH AUGUST 1 AND SEPTEMBER 15 THROUGH NOVEMBER 30. SEEDING OF ANNUALS SHALL BE BETWEEN JUNE 15 THROUGH AUGUST 1 AND SEPTEMBER 15 THROUGH NOVEMBER 30.

EVALUATE PROPOSED COVER MATERIAL:
BEFORE ORDERING COVER MATERIAL OVER THE DESIGNATED AREA, OBTAIN A REPRESENTATIVE SOIL SAMPLE AND SUBMIT TO A REPUTABLE SOIL TESTING LABORATORY FOR CHEMICAL AND PHYSICAL ANALYSIS. THE PRELIMINARY TEST IS NECESSARY TO DETERMINE THE REQUIRED INORGANIC AND/OR ORGANIC AMENDMENTS THAT ARE NEEDED TO ASSIST IN ESTABLISHING THE SEED MATURE IN AN ENVIRONMENTALLY AND ECONOMICALLY SOUND MANNER. THE RESULTS WILL GIVE THE COVER MATERIAL CHARACTERISTICS SUCH AS PH VALUE, NUTRIENT CONTENT, AND SOIL PH. THESE RESULTS SHALL BE KEPT ON-SITE BY THE CONTRACTOR AND AVAILABLE FOR REVIEW BY THE COUNTY.

SEED BED PREPARATION:
PROPOSED COVER MATERIAL SHOULD BE SPREAD EVENLY OVER THE SITE AREA IN A MINIMUM 4" LIFT VIA BULLDOZER/BUCKET LOADER. USING THE INFORMATION FROM THE SOIL ANALYSIS, CAREFULLY CALCULATE THE AMOUNT OF AMENDMENTS TO BE APPLIED TO THE SEED BED. AMENDMENTS SHOULD BE APPLIED WITH A BROADCAST AND/OR DROP SEEDER AND INCORPORATED WITH AN OFFSET DISK, YORK RAKE, AND/OR HAND RAKE. AFTER INCORPORATION THE PRE-PLANT SOIL AMENDMENTS, THE SEED BED SHOULD BE SMOOTH AND FIRM PRIOR TO SEEDING. THE FOLLOWING SEED MATURES SHALL BE USED AS NOTED:

| SEED MATURE | SEEDS/AREA | LSB/AREA |
|---------------------|------------|----------|
| CREeping RED FESCUE | 20 | |
| KENTUCKY BLUEGRASS | 20 | |
| PERENNIAL RYEGRASS | 5 | |

SEED TIME AND METHOD:
THE PREFERRED TIME FOR SEEDING THE COOL SEASON MATURE IS LATE SUMMER. SOIL AND AIR TEMPERATURES ARE IDEAL FOR SEED GERMINATION AND SEEDING GROWTH. WEED COMPETITION IS REDUCED BECAUSE SEEDS OF MANY WEED SPECIES GERMINATE EARLIER IN THE GROWING SEASON. ADDITIONALLY, PERENNIAL USE IS GREATLY REDUCED. HOWEVER, SEEDING MAY BE DONE AT ANY OF THE ABOVE NOTED TIMES.

MULCHING:
NEWLY SEEDING AREAS SHOULD BE MULCHED TO INSURE ADEQUATE MOISTURE FOR SUCCESSFUL TURF ESTABLISHMENT AND TO PROTECT AGAINST SURFACE MOVEMENT OF SEDIMENT-BINDING AGROCHEMICALS AND SOIL EROSION. MULCHING PROCEDURES ARE NOT SPECIFIED ON PLANS. APPLY GOOD QUALITY STRAW OR HAY AT A RATE OF 2 BALES/1000 SQ. FT. OTHER COMMERCIALLY AVAILABLE MULCHES CAN BE USED.

GENERAL EROSION & SEDIMENT CONTROL NOTES:
1. THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND DETAILS AS SHOWN HEREIN AND SPECIFIED WITHIN STATE STANDARDS SHALL BE FOLLOWED AND INSTALLED IN A MANNER SO AS TO MINIMIZE SEDIMENT LEAVING THE SITE.
2. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
3. EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE CONSTRUCTION OF EROSION CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON THE APPROVED PLANS. IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
5. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR THE LOCAL JURISDICTION INSPECTOR. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
6. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE.
7. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
8. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
9. ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
10. CONTRACTOR SHALL REMOVE ALL EROSION & SEDIMENT CONTROL MEASURES AFTER COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
11. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

GENERAL EROSION & SEDIMENT CONTROL NOTES:
1. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DRAINING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
2. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
3. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPACTING CONCRETE THICKNESS.
4. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRUCK, DEBRIS, AND SO FORTH.
5. -USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND, -BE FREE FROM CLODS OR STONES OVER 2-1/2" MAXIMUM DIMENSIONS -BE PLACED IN 6" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR
6. REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETED MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. FLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE SHOWS EXCESSIVE FILL DENSITY LESS THAN THAT REQUIRED FOR FILL BREAK UP SURFACE SHOULD BE REWORKED, PAULVERED, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
7. PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE FROM DAMAGE BY EQUIPMENT. AFTER THE CONTRACTOR'S OPERATIONS, DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
8. REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED. GRAVEL SURFACING SHALL BE REPLACED WITH GRAVEL OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF IN ADEQUATE AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL TO BE GRADED TO CONFORM TO REQUIRED SURFACE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED WITH APPROVED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER'S APPROVAL.
9. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED/REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
11. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
12. ALL CUT AND FILL SLOPES SHALL BE MAXIMUM 2 HORIZONTAL TO 1 VERTICAL.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING SITE VEHICLE TRAFFIC AS TO NOT ALLOW VEHICLES LEAVING THE SITE TO TRACK MUD ONTO PUBLIC STREETS. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING PUBLIC STREETS DUE TO MUDGY VEHICLES LEAVING THE SITE.

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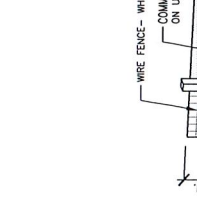
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CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND TOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOPED IN THE SILT FENCE.
5. ALL SILT FENCE MATERIALS MUST BE LISTED ON THE CURRENT STATES, I.D.T. QUALIFIED PRODUCTS LIST.



2 SILT FENCE DETAIL

CONSTRUCTION EXIT DETAIL:
1. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DRAINING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
2. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
3. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPACTING CONCRETE THICKNESS.
4. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRUCK, DEBRIS, AND SO FORTH.
5. -USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND, -BE FREE FROM CLODS OR STONES OVER 2-1/2" MAXIMUM DIMENSIONS -BE PLACED IN 6" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR
6. REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETED MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. FLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE SHOWS EXCESSIVE FILL DENSITY LESS THAN THAT REQUIRED FOR FILL BREAK UP SURFACE SHOULD BE REWORKED, PAULVERED, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
7. PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE FROM DAMAGE BY EQUIPMENT. AFTER THE CONTRACTOR'S OPERATIONS, DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
8. REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED. GRAVEL SURFACING SHALL BE REPLACED WITH GRAVEL OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF IN ADEQUATE AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL TO BE GRADED TO CONFORM TO REQUIRED SURFACE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED WITH APPROVED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER'S APPROVAL.
9. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED/REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
11. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
12. ALL CUT AND FILL SLOPES SHALL BE MAXIMUM 2 HORIZONTAL TO 1 VERTICAL.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING SITE VEHICLE TRAFFIC AS TO NOT ALLOW VEHICLES LEAVING THE SITE TO TRACK MUD ONTO PUBLIC STREETS. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING PUBLIC STREETS DUE TO MUDGY VEHICLES LEAVING THE SITE.



1 CONSTRUCTION EXIT DETAIL

NOT FOR
CONSTRUCTION

PROJECT
US-MN-5481
FUZE ID: 17086918

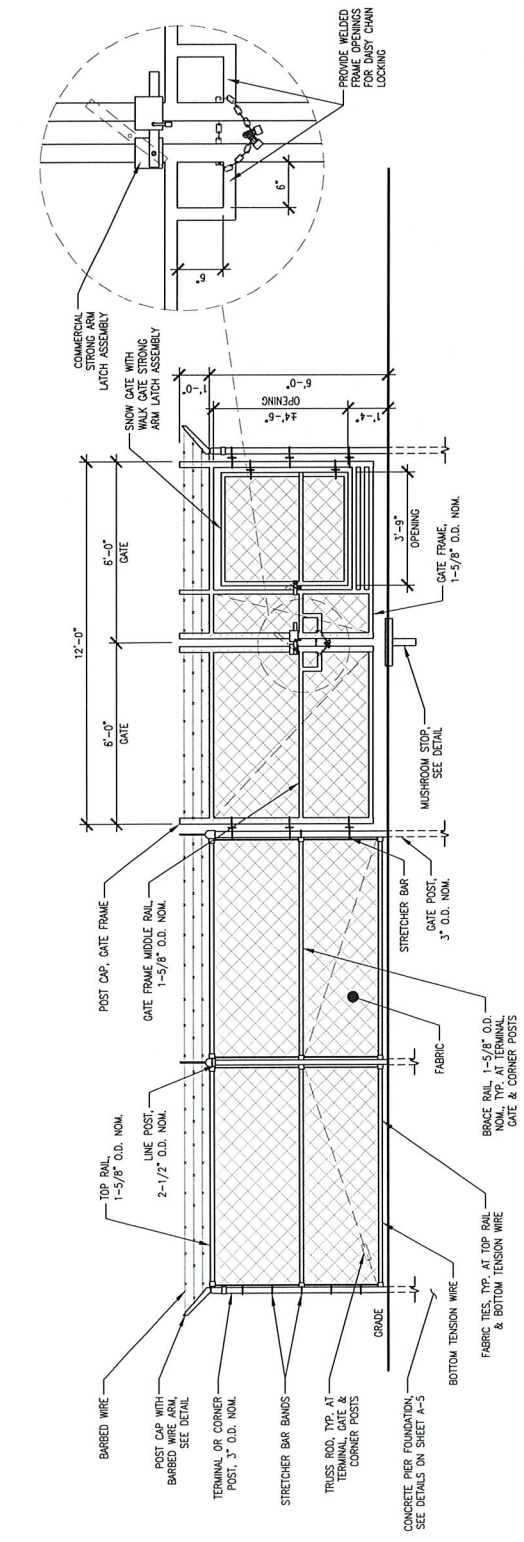
US-MN-5481
PONSFORD

45520 COUNTY HWY 44
PONSFORD, MN 56475

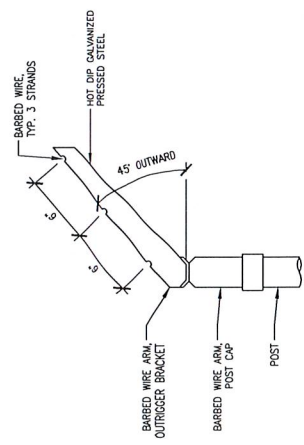
SHEET CONTENTS:
FENCE DETAILS

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| CHECKED BY: | SJS |
| REV. 1: | 08-02-25 |
| REV. 2: | 02-08-25 |

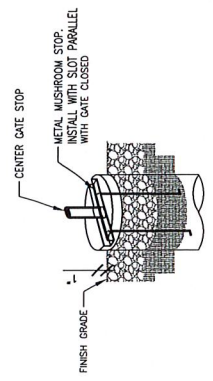
NOTE:
CONTRACTOR TO INSTALL NUTS
ON ALL BOLTS TOWARDS THE
INTERIOR OF THE COMPOUND



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



2 BARBED WIRE ARM DETAIL



3 MUSHROOM STOP DETAIL

NOT FOR
 CONSTRUCTION

PROJECT
 US-MN-5481
 FLUZE ID: 17096918

US-MN-5481
 PONSFORD

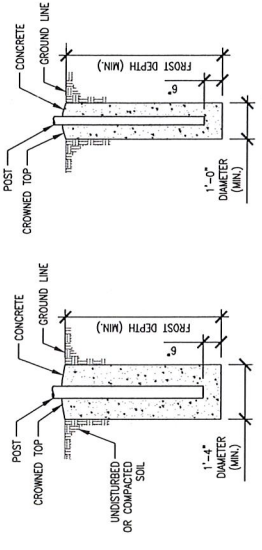
45520 COUNTY HWY 44
 PONSFORD, MN 56475

SHEET CONTENTS:
 FENCE NOTES
 FENCE DETAILS

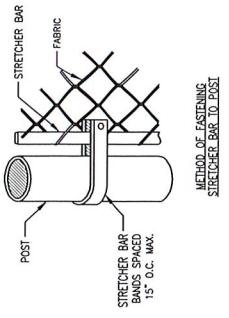
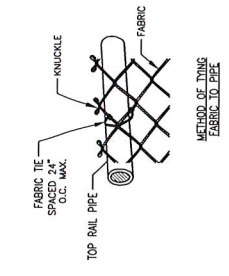
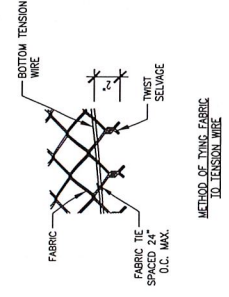
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| DRAWN BY: | TLS |
| CHECKED BY: | SJD |
| DATE: | 06/25/23 |
| SHEET: | 02/02/23 |

A-5

- NOTES:**
- ZINC COATING - THE WEIGHT OF THE COATING SHALL NOT BE LESS THAN 1.2 OUNCES PER SQUARE FOOT OF ACTUAL SURFACE COVERED. ALL FERROUS METALS USED AS PART OF THE FENCE INSTALLATION SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL. ALL SCREWS, BOLTS, LOCK WASHERS, NUTS, ETC. SHALL BE HOT DIP GALVANIZED OR MADE OF STAINLESS STEEL.
 - FABRIC - STANDARD INDUSTRIAL GRADE, 9 GAUGE WITH 2 INCH MESH (KNUCKLE & TWIST SELVAE) ZINC COATED CHAIN LINK WITH A BREAKING STRENGTH OF NOT LESS THAN 1900 POUNDS SHALL BE USED. THE FABRIC SHALL BE ZINC COATED BY THE HOT DIP PROCESS AFTER FABRICATION.
 - METAL POSTS - METAL CORNER, TERMINAL, GATE POSTS, MIDDLE RAILS, BRACES AND TOP RAIL SHALL BE HOT DIP GALVANIZED SCHEDULE 40 TUBULAR STEEL WITH A NOMINAL OUTSIDE DIAMETER AS INDICATED IN THE DRAWINGS.
 - POST CAPS - LINE, CORNER, TERMINAL AND GATE POST CAPS TO INCLUDE A BARBED WIRE OUTRIGGER BRACKET AND SHALL BE ATTACHED TO THE POST WITH TAMPER RESISTANT SCREWS, BRASS, OR BOLTS. GATE FRAME POST CAPS TO BE PRESSED STEEL DOME TYPE.
 - TOP RAIL - A MINIMUM OF ONE COUPLING IN EACH STRAIGHT RUN OF TOP RAIL SHALL HAVE A HEAVY SPRING INSERTED WITHIN THE COUPLING TO TAKE UP EXPANSION AND CONTRACTION OF THE TOP RAIL. THE TOP RAIL SHALL BE FASTENED TO TERMINAL POSTS WITH PRESSED STEEL CONNECTIONS.
 - GATE FRAME MIDDLE RAIL - THE MIDDLE RAIL SHALL BE OF THE SAME MATERIAL AS THE TOP RAIL AND INSTALLED WITH HOT DIP GALVANIZED FITTINGS ATTACHED TO THE POSTS.
 - BRACE RAIL - BRACE RAIL MATERIAL SHALL BE OF THE MATERIAL AS THE TOP RAIL AND LOCATED 1/2 OF THE DISTANCE FROM THE BOTTOM OF THE FABRIC. BRACE RAILS SHALL BE SECURELY FASTENED TO POSTS BY SUITABLE PRESSED STEEL CONNECTIONS.
 - TRUSS RODS - SHALL BE 3/8" ROUND GALVANIZED STEEL RODS WITH GALVANIZED TURNBUCKLES.
 - BOTTOM TENSION WIRE - THE TENSION WIRE SHALL BE OF 7 GAUGE HOT DIP GALVANIZED SPRING TENSION WIRE WITH A BREAKING STRENGTH OF NOT LESS THAN 1900 POUNDS. THIS WIRE SHALL BE KEPT TAUT WITH GALVANIZED TURNBUCKLES AND ATTACHED TO POSTS WITH GALVANIZED HARDWARE OR CABLE CLAMPS.
 - FABRIC TIES - THE FABRIC TIES SHALL BE ALUMINUM WIRE, NOT LESS THAN 9 GAUGE.
 - STRETCHER BARS - THE STRETCHER BARS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 5/16" X 3/4" AND NOT LESS THAN 2" SHORTER THAN THE FABRIC. STRETCHER BAR BANDS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 5/16" X 1 1/2" WITH 5/16" DIAMETER GALVANIZED CARRIAGE BOLT.
 - BARBED WIRE - BARBED WIRE OF GALVANIZED STEEL (OR ALUMINUM) CONSISTING OF 12.5 GAUGE WIRE WITH 4-POINT BARBS SPACED 5 INCHES APART.
 - GATE FRAMES SHALL BE CONSTRUCTED OF HEAVY DUTY GALVANIZED STEEL PIPE. THE GATES SHALL BE ASSEMBLED USING CORNER FITTINGS OF HEAVY PRESSED STEEL OR MALLEABLE CASTINGS OR MAY BE WELDED IF THE ENTIRE GATE FRAME IS HOT DIP GALVANIZED AFTER THE WELDING. ALL GATES SHALL BE EQUIPPED WITH HEAVY DUTY GALVANIZED STEEL TYPE HINGES WITH LARGE BEARING SURFACES OF ADEQUATE STRENGTH TO SUPPORT THE GATE. THE HINGES SHALL BE KEPT TAUT WITH GALVANIZED HARDWARE OR CABLE CLAMPS. THE GATES SHALL BE KEPT CLOSED AND EASILY OPENED AND CLOSED BY ONE PERSON. DOUBLE GATE LATCH SHALL BE DAC INDUSTRIES COMMERCIAL STRONG ARM LATCH #4000. SNOW GATE LATCH SHALL BE DAC INDUSTRIES WALK GATE STRONG ARM LATCH #4300. LATCHES SHALL BE EQUIPPED TO RECEIVE A PADLOCK.
 - PROVIDE R.F. WARNING SIGNAGE ON ALL GATES.



1 POST FOOTINGS



2 FABRIC/BAR CONNECTIONS

METHOD OF FASTENING STRETCHER BAR TO POST

METHOD OF TYING FABRIC TO TENSION WIRE

METHOD OF TYING FABRIC TO PIPE

verticalbridge
 SITE NAME: [FULL SITE NAME]
 SITE ID: [SITE ID NUMBER]
 FCC TOWER ID: [ASR NUMBER]
 Owned by: VERTICAL BRIDGE
 Telephone: 877-589-8411
 www.verticalbridge.com
 operations@verticalbridge.com

NO TRESPASSING

A | OWNER CONTACT SIGN
 18" HIGH X 24" WIDE
 WHITE BACKGROUND, BLACK LETTERING
 MOUNTING LOCATION: ADJACENT TO LEFT GATE &
 QUANTITY: 1

DANGER

NO TRESPASSING

C | NO TRESPASSING SIGN
 10" HIGH X 14" WIDE
 WHITE/BLACK/RED BACKGROUND, BLACK/WHITE LETTERING
 MOUNTING LOCATION: ADJACENT TO LEFT GATE &
 CENTERED ON OTHER THREE FENCED SIDES (QTY: 4)

INFORMATION

Federal Communications Commission
 Tower Registration Number
1 2 3 4 5 6 7
 Posted in accordance with Federal Communications
 Commission rules on antenna tower registration
 • 47CFR 17.49g


B | FCC REGISTRATION SIGN
 8" HIGH X 12" WIDE
 WHITE/GREEN BACKGROUND, WHITE/BLACK LETTERING
 MOUNTING LOCATION: ADJACENT TO LEFT GATE &
 QUANTITY: 2

NOTICE
 RADIO FREQUENCY ELECTROMAGNETIC ENERGY (RF/EMF)
 PAUSE/STOP WORKING IN
 PROXIMITY TO ANTENNAS

- ⚠ All personnel should have electromagnetic energy (EMF) awareness training.
- ⚠ All personnel entering this site must be authorized.
- ⚠ Obey all posted signs.
- ⚠ Do not touch antennas, towers, masts, or other equipment.
- ⚠ Assume all antennas are active.
- ⚠ Do not touch antennas, towers, masts, or other equipment.
- ⚠ Maintain minimum 3 feet clearance from all antennas.
- ⚠ Do not stop in front of antennas.
- ⚠ Use personal RF monitors while working near antennas.
- ⚠ Never operate transmitters without shields during normal operation.
- ⚠ Do not operate base station antennas in equipment room.

D | RF GUIDELINES SIGN
 8" HIGH X 12" WIDE
 YELLOW BACKGROUND, BLACK LETTERING
 MOUNTING LOCATION: RIGHT GATE & BASE OF TOWER
 QUANTITY: 2

NOTICE



Radio frequency fields beyond this point may exceed the FCC general public exposure limit. Obey all posted signs and site guidelines for working in radio frequency environments.

E | NOTICE OF SIGNAL (BLUE)
 12" HIGH X 8" WIDE
 WHITE/BLUE BACKGROUND WITH BLACK LETTERING
 MOUNTING LOCATION: ADJACENT TO LEFT GATE
 QUANTITY: 1

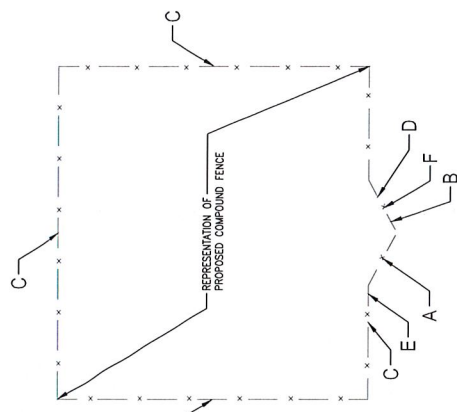
CAUTION



On this tower: Radio frequency fields near active antennas may exceed FCC rules for human exposure. Personnel climbing this tower should be trained for working in radio frequency environments and should use a radio frequency monitor if working near active antennas.

F | NOTICE OF SIGNAL (YELLOW)
 12" HIGH X 8" WIDE
 WHITE/YELLOW BACKGROUND, BLACK LETTERING
 MOUNTING LOCATION: RIGHT GATE QUANTITY: 1

NOTES:
 1. SIGNAGE PLAN & ELEVATION IS SHOWN FOR INFORMATION PURPOSES ONLY. CONTRACTOR TO VERIFY EXACT PLACEMENT WITH TOWER OWNER.
 2. SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
 3. ALL SIGNS SHALL BE MOUNTED TO THE TOWER, GATE, & FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (AS UTILIZED IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.



1 SITE SIGNAGE

verticalbridge
 THE TOWERS, LLC
 22 WEST ATLANTIC AVENUE, SUITE 310
 DELRAY BEACH, FL 33444

NOT FOR CONSTRUCTION

DESIGN
 8873 VALLEY VIEW RD.
 EDEN PRAIRIE, MN 55344
 (952) 900-9099
 WWW.DESIGNREP.COM

PROJECT
 US-MN-5481
 FUZE ID: 17098918
 US-MN-5481
 PONSFORD

45520 COUNTY HWY 44
 PONSFORD, MN 56475
 SHEET CONTENTS:
 SITE SIGNAGE DETAILS

| | |
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| DRAWN BY: | TLS |
| CHECKED BY: | SHD |
| DATE: | 06.06.23 |
| REV. 2 | 02.02.23 |
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A-6

NOT FOR
 CONSTRUCTION



PROJECT
 US-MN-5461
 FUZE ID: 17086918

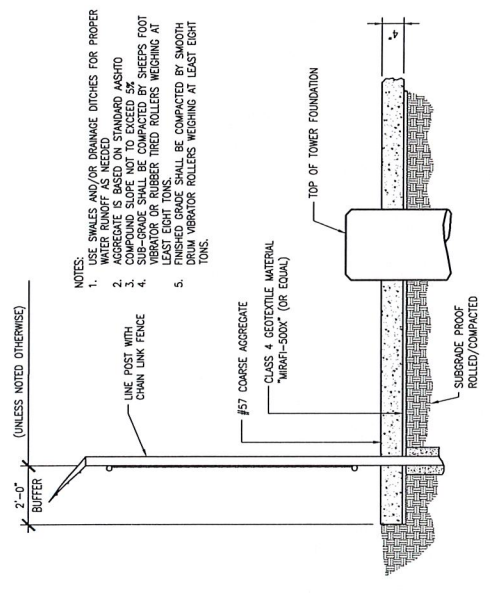
US-MN-5481
 PONSFORD

45520 COUNTY HWY 44
 PONSFORD, MN 56475

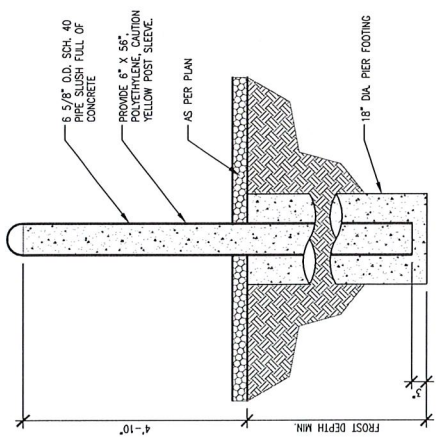
SHEET CONTENTS:
 GRAVEL DRIVE SECTION
 SURFACING DETAIL
 BOLLARD DETAIL
 UTILITY TRENCH DETAIL

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| DRAWN BY: | TLS |
| CHECKED BY: | SJD |
| REV. 1 | 09-02-25 |
| REV. 2 | 02-03-25 |
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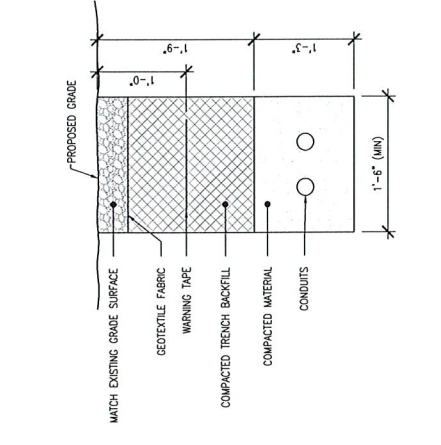
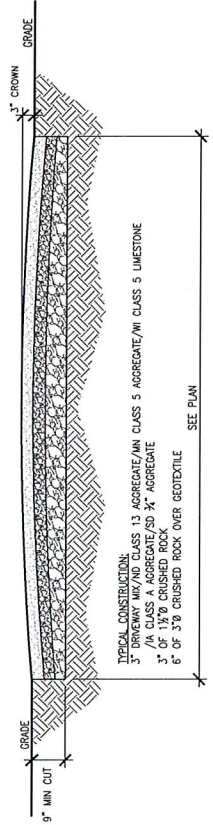
A-7



2 COMPOUND SURFACING DETAIL



- NOTES:
 1. PREPARE SUB-GRADE AND CONSTRUCT IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
 2. ANY VARIANCE FROM THIS ROADWAY DESIGN MUST BE SUBMITTED AND APPROVED PRIOR TO BID.
 3. CONTRACTOR TO COMPACT EACH LAYER OF ROCK IN ACCORDANCE WITH ASTM & LOCAL STANDARDS.



4 UTILITY TRENCH DETAIL

PREPARED FOR:

vertical bridge
THE TOWERS, LLC
22 WEST ATLANTIC AVENUE, SUITE 310
DELRAY BEACH, FL 33444

NOT FOR
CONSTRUCTION

DESIGN
8873 VALLEY VIEW RD.
EDEN PRARIE, MN 55344
(952) 935-8299
WWW.DESIGN1EET.COM

PROJECT
US-MN-5481
FUZE ID: 17086918

US-MN-5481
PONSFORD

45520 COUNTY HWY 44
PONSFORD, MN 56475

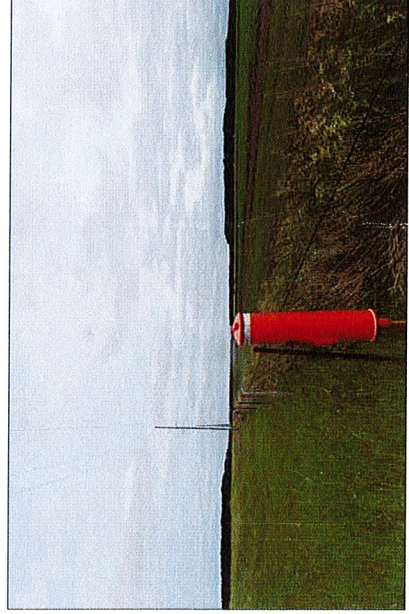
SHEET CONTENTS:
PHOTOS

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| CHECKED BY: | LS |
| REV. 1: | 08/02/20 |
| REV. 2: | 02/02/20 |

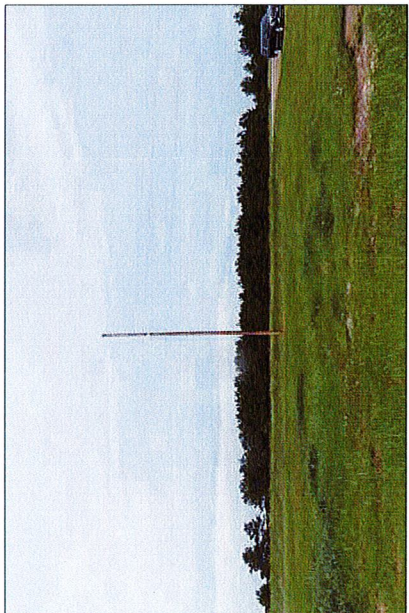
A-8



2 SITE PHOTO



4 SITE PHOTO



1 SITE PHOTO



3 SITE PHOTO

GENERAL GROUNDING NOTES:

An external buried ground ring (Lead 1) shall be established around the equipment cabinets and tower foundations. Lead 1 shall be kept 24" from foundations; if foundations are less than 48" apart, keep 10" from center between them. The tower foundation shall be bonded to the ground ring. The tower Lead 1 shall be bonded with two parallel leads at least 6 feet apart horizontally. Connections between the two Lead 1's shall be bi-directional.

All subgrade connections shall be by exothermic weld, brazed with anti-oxidant compound. Subgrade connections shall add be lead galvanizer coated.

Lead 1 shall be #2 solid bare tin-clad (SBTC) copper wire buried at local frost depth. Lead 1 bonds shall be minimum 24" radius. 'Whip' leads shall be of 1/2" radius.

Ground rods shall be galvanized steel, 5/8", spaced evenly apart, or as shown. Rods shall be kept min. 24 inches from foundations. Ground rods are required to be installed at their full specified length. Depth shall be as shown in Detail 11.1 in the Verizon Wireless Standard Detail Booklet.

SPECIAL CONSIDERATIONS FOR GROUND RODS:

When ground rods are not specified to be backfilled w/ Bentonite or grout, the Contractor shall be responsible for the placement of ground rod. The Contractor will need to have drilling equipment bore a hole for ground rod placement. Hole to be backfilled w/ Bentonite Slurry.

When specified with slurry, Bentonite assessment, drilling equipment will be used to be bore a hole for ground rod placement. Slurry shall be made from pelletized material ("Grounding Grout"); powdered Bentonite is not allowed. If boulders, bedrock, or other obstructions are found, Contractor shall be responsible for the specified depth and provide Bentonite encasements.

Above-grade connections shall be by lugs w/ two-hole tangens unless noted otherwise, joined to solid lugs by welding (Z&B 548568E, BROWN), self-treading (RECOGNIZED, EM, 27C 14E2). Surfaces that are galvanized or coated shall have coating(s) removed prior to bolting. Bolts shall be stainless steel with flat washers on each side of the connection and a lock washer beneath the fastening nut. Star-tooth washers shall be used between lug & dissimilar metal (Copper-to-steel, CU to steel). Lug tangens shall be coated with anti-oxidant compound, and excess compound wiped clean after bolting. The connection shall then be coated with cold-galvanizing compound, or with color-matching paint.

Ground bars exposed to weather shall be tin-clad copper, and shall be clean of any oxidation prior to lug bolting.

Galvanized items shall have zinc removed within 1" of weld area, and below lug surface contact area. After welding or bolting, the joint shall be coated with cold galvanizing compound.

Ground_Bur_Leads

Ground bars are isolated electrically from tower bottoms and equipment cabinets by their standoff mounts. Leads from each ground bar to the ground ring shall be a pair of #2 SBTC, each connected to Lead 1 bi-directionally with #2 SBTC jumpers. Leads shall be bonded to ground bars as follows:

- The Main Ground Bar (MGB), typically mounted adjacent to the ILC (location varies).
- The Port Ground Bar (PGB), mounted inside and outside on the tower.
- The Tower Ground Bar (TGB) mounted at the base of the tower. Note: Transmission line grounds also attach to the TGBs.

NOTE: Contractor shall confirm that TGBs exist at 75-foot vertical intervals on any guyed or self-support tower, and that transmission lines are grounded to each TGB. Only the TGBs must be bonded to the tower steel frame; upper transmission lines requiring no copper leads between TGBs.

#2_SBTC_Whip_Leads

'Whip' leads shall connect the buried external ground ring to the following items:

- Monopole towers;
- Three whips to langes on the monopole base, at least 90° apart. If none are provided, attach to the baseplate or consult tower manufacturer.
- Self-Support Towers:
 - Two whips to flange(s) on each tower leg base. If none are provided, attach to the baseplate or consult tower manufacturer.

Guyed Towers:

- Two whips to flange(s) on the tower base. If none are provided, attach to the baseplate or consult tower manufacturer. Establish a lead from the leg base to the tower guy anchor. #2 SBTC leads shall extend up, and be clamped (bracket clamshell or equal), to two guy wires. NEVER weld leads to the guy wires. The lead to the guy anchor 'hand' plate may be welded.

Fences:

- Metallic fence within 25 feet of tower Lead 1, or within 6 feet of shelter lead 1, shall have whip leads as follows:
 - Each corner post.
 - Any line post over 20'-0" from a grounded post.
 - Each gate leaf to its respective gatepost using braided strip (3/4" tin-clad copper w/ lug ends).

Fuel Tanks:

NEVER WELD to any fuel enclosure. NEVER penetrate the fuel containment. Metal tanks shall have one whip lead attached. Use an approved pump on two-hole lug on an available tongue. Equipment Shelter/Platform and Other General Requirements (including but not limited to):

- Extend new Lead 21B up to shelter halo, removing two-way connections. Connections within the shelter shall be by such compression. Connections within the shelter shall be by such compression. NEVER weld inside the shelter. Bridge and shall be kept at least 6" from the tower structure. The shelter shall be bonded to the tower with #2 SBTC support pipes.
- Opposite corners of the steel equipment platform.
- Shelter HVAC unit shield, if separate (may be 'jumped' to each roof shield).
- Each HVAC package unit.
- Commercial electric meter box.
- Generator receptacle, if present.
- Each generator vent hood or vent lower.
- Each generator exhaust stack, external.
- Generator exhaust stack, external.
- Shelter.

SYMBOL AND NOTE LEGEND

- #2 SBTC AROUND EQUIPMENT CABINETS, TOWER, OR GUY ANCHOR
- 5/8" X 10'-0" GALVANIZED STEEL GROUND ROD
- ⊙ TEST WELL PREFERRED LOCATION
- ⊖ #2 SBTC 'WHIP' LEAD
- ⊕ #2 SBTC FROM MGB, PGB, OR TGB TO LEAD 1
- ⊗ AC HVAC UNIT
- ⊘ BC BUILDING CORNER
- ⊙ BO BOLLARD
- ⊙ CBS CABLE BRIDGE SUPPORT POST
- ⊙ EL ELECTRICAL SERVICE GROUND
- ⊙ EM COMMERCIAL ELECTRICAL METER
- ⊙ FAN GUY ANCHOR PLATE
- ⊙ FP FENCE POST
- ⊙ GEN GENERATOR
- ⊙ GP GUY POST, 3/4" BRAD STRAP TO LEAF
- ⊙ GUY GUY WIRE, MECH. CLAMP ONLY - NO WELDS
- ⊙ HL HOOD OR LOUVER
- ⊙ HB HOOD OUTSIDE OF HOFFMAN BOX
- ⊙ ILC INTEGRATED LOAD CENTER
- ⊙ MGB MAIN GROUND BAR
- ⊙ MU GENERATOR MUFFLER
- ⊙ PGB PORT GROUND BAR
- ⊙ RBR FOUNDATION REINFORCING
- ⊙ RS ROOF SHIELD
- ⊙ SB STEEL BEAM
- ⊙ SP STEEL POST
- ⊙ STP STEEL PLATFORM
- ⊙ TEL HOFFMAN BOX
- ⊙ TGB TOWER GROUND BAR
- ⊙ TWR TOWER BASE
- ⊙ VP DIESEL FUEL VENT PIPE

LEAD IDENTIFICATION & DESCRIPTION:

- 1 RING, EXTERNAL, BURIED w/ ROADS #2 SBTC
- 14 RING, CONCRETE ENCASED #2 SBTC
- 2 DEEP ANODE TO IMPROVE OHMS #2 SBTC
- 3 RING TO BLDG STL FRAME #2 SBTC
- 4 MAIN AC PANEL NEUTRAL BUS TO (2) GROUND BARS #2/0 I-STR
- 5 RING TO EXT WTL OBJECT (2) #2 SBTC
- 7 DEEP ANODE TO MGB NST033-9
- 8 AC PANEL TO WATER METER NEC 250.56
- 9 AC PANEL TO WATER METER NST033-9
- 10 INT WATER PIPE TO MGB NST033-9
- 11-12 NOT USED
- 13 AC PANEL TO MGB NST033-9
- 14 MGB/FGB TO BLDG STL FRAME #2/0 I-STR
- 15 MGB/FGB TO BLDG STL FRAME #2/0 I-STR
- 16 MGB/FGB TO FGB-SAME FLOOR #2/0 I-STR
- 17A ECPGB TO CABLE ENTRY PACK #1/0 I-STR
- 17B ECPGB TO CABLE SHIELDING #6 I-STR
- 17C ECPGB TO CABLE SHIELDING #1 I-STR
- 18 LOW VOLT W/ HIGHEST FGB #2/0 I-STR
- 19 LOW VOLT W/ HIGHEST FGB #2/0 I-STR
- 20 NEAREST GND TO DISCONNECT PNL #6 I-STR
- 20B GND TO AC DISTR PNL #6 I-STR
- 21 MGB/FGB TO INT HALO #2 I-STR
- 21A INTERIOR GREEN HALO #2 I-STR
- 21B INT HALO TO EXTERIOR WTL #2 SBTC
- 22 ROOF TOWER RING TO ROOF GND #6 I-STR
- 23 MGB/FGB TO ECPGB, SAME FLOOR #1 I-STR
- 23A MGB/FGB TO CUR-HF LMR PROT #6 I-STR
- 24 ECPGB TO EACH PROTECTOR ASSEMBLY #6 I-STR
- 24A LOWER PROT ASSY TO UPPER #6 I-STR
- 25 RING TO NEAREST LIGHTNING ROD #2 SBTC
- 26 LIGHTNING ROD SYS TO NEARBY WTL NFPA 780
- 27 RING TO TOWER RING (2) #2 SBTC
- 28 BRANCH AC PNL TO BTTY CHG FRM NST033-11
- 29 BRANCH AC PNL TO BTTY CHG FRM NST033-11
- 31 MGB/FGB TO PWR, BTTY FRAMES #2/0 I-STR
- 32 #31 TO BATTERY CHARGER FRAME #6 I-STR
- 33 #31 TO BATTERY PACK FRAME #6 I-STR
- 34 #31 TO PDU FRAME #6 I-STR
- 35 #31 TO DDU FRAME #6 I-STR
- 36 MGB/FGB TO BTTY RETURN NST033-14
- 37 MGB/FGB TO BTTY RETURN NST033-14
- 37A MGB/FGB TO RIN TERM CABR SUPP #6 I-STR
- 37B MGB/FGB TO RIN TERM CABR SUPP #6 I-STR
- 38A FGB TO PDU OR CARRIER SUPPLY #2/0 I-STR
- 39 DC BUS DUCT TO NEXT SECTION #6 I-STR
- 40 DC BUS DUCT TO MGB/FGB #6 I-STR
- 41A MGB/FGB TO #35 #2/0 I-STR
- 42 MAIN AC PNL TO BRANCH AC PNL NST033-11
- 43 BRANCH AC PNL TO BLDG STL FRAME #6 I-STR
- 44 BRANCH AC PNL TO BLDG STL FRAME #6 I-STR
- 45 MAIN AC PNL TO BRANCH AC PNL NST033-11
- 46 BRANCH AC PNL TO BLDG STL FRAME #6 I-STR
- 47 FGB TO INTEG FRM #6 I-STR
- 48 LEAD #31 TO INTEG FRM #6 I-STR
- 49 GUY ENTRY SET TO SHELF #2/0 I-STR
- 50 GUY ENTRY SET TO SHELF #2/0 I-STR
- 51 #50 TO TRANS FRM ESD DC PWR #6 I-STR
- 52 TRANS FRM FUSE TO FRM OR BAR #6 I-STR
- 53A MGB/FGB TO POF/BOPF #6 I-STR
- 53B MGB/FGB TO POF/BOPF #6 I-STR
- 54 MGB/FGB TO AC PWR RADIO XMITR #6 I-STR
- 55 MGB/FGB TO CABLE AT ENTRY #6 I-STR
- 56 MGB/FGB TO STATIC DEVICES #6 I-STR
- 57 MGB/FGB TO AC PWR RADIO XMITR #2/0 I-STR
- 58A #41A TO ASLE FRAME #6 I-STR
- 58B #41A TO ASLE FRAME #6 I-STR
- 60-69 NOT USED
- 90 GENERATOR FRAME TO EXT RING #2 SBTC

NOT FOR CONSTRUCTION

THE TOWERS, LLC
22 WEST ATLANTIC AVENUE, SUITE 310
DELRAY BEACH, FL 33444

DESIGN
883 VALLEY VIEW RD.
EKEN PRANSIE, MN 55344
(651) 983-9999
WWW.DESIGNRFET.COM

PROJECT
US-MN-5481
FUZE ID: 17096918

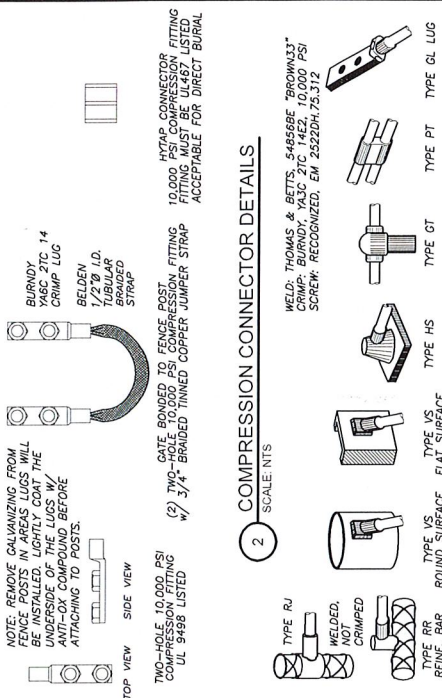
US-MN-5481 PONSFORD

45520 COUNTY HWY 44
PONSFORD, MN 56475

SHEET CONTENTS:
GROUNDING NOTES

DESIGNED BY:
CHECKED BY:
REV. 1
REV. 2

G-1



- GENERAL CONTRACTOR NOTES:**
- CONTRACTOR TO COORDINATE PUBLIC & PRIVATE UTILITY LOCATES PRIOR TO CONSTRUCTION. NOTIFY THE DESIGNER AND CARRIER CONSTRUCTION ENGINEER IMMEDIATELY OF ANY UTILITY LINE ISSUES.
 - GENERAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT THE INSTALLATION OF ALL SECONDARY ELECTRICAL - ISOLATION BONDERS GROUNDING SHALL BE TO LEAD 1 BY THE SHORTEST PATH, AND BONDERS SHALL BE LESS THAN 12" RADIIUS.
 - CONTRACTOR SHALL ENSURE THAT EACH WHIP IS BOUNDED TO LEAD 1 BY THE SHORTEST PATH, AND BONDERS SHALL BE LESS THAN 12" RADIIUS.
 - PRIMARY ELECTRICAL - DEPTH AND SPECIFICATION BY POWER UTILITY COMPANY.
 - SECONDARY ELECTRICAL - INSTALL CONDUIT 3" BELOW GRADE WITH TWO (2) DETECTABLE REBENDS.
 - FIBER OPTIC - INSTALL CONDUIT 3" BELOW GRADE WITH FLAT STING, IMMOVABLE WIRE AND TWO (2) DETECTABLE REBEND.

- Inspection & Testing**
- Note: The door frame is connected to the interior ground halo, and need no separate connection to the external ground ring.
- Inspect and test all connections and connections to any other grounding.
 - Verify the 3-point fall of potential method. Contractor to notify Verizon Wireless senior construction engineer at least 48 hours prior to testing. Document installation and test results with photographs.

- COMPRESSION CONNECTOR DETAILS**
- SCALE NTS
- TYPE VS. ROUND SURFACE
 - TYPE VS. FLAT SURFACE
 - TYPE HS
 - TYPE OT
 - TYPE PT
 - TYPE GL LUG
- WELD: THOMAS & BETTS, 548568E "BROWN" CRIMP; BURNDY, Y46C 27C 14E2, 10,000 PSI SCREW; RECOGNIZED, EM 2522DH-75.312

EXOTHERMIC WELD DETAILS

SCALE NTS

G-1

NOTES:
 1. SEE SHEET G-1 FOR
 2. SEE SHEET G-1 FOR
 3. GROUND RING SYSTEM
 ALLOWANCE AS PER (S)
 (S)S MAXIMUM.

PREPARED FOR
verticalbridge
 THE TOWERS, LLC
 22 WEST ATLANTIC AVENUE, SUITE 310
 DELRAY BEACH, FL 33444

NOT FOR
 CONSTRUCTION

DESIGN
 8973 VALLEY VIEW RD.
 PONSFORD, MN 56475
 (507) 943-9299
 WWW.DESIGNTEP.COM

PROJECT
 US-MN-5481
 FUZE ID: 17096918

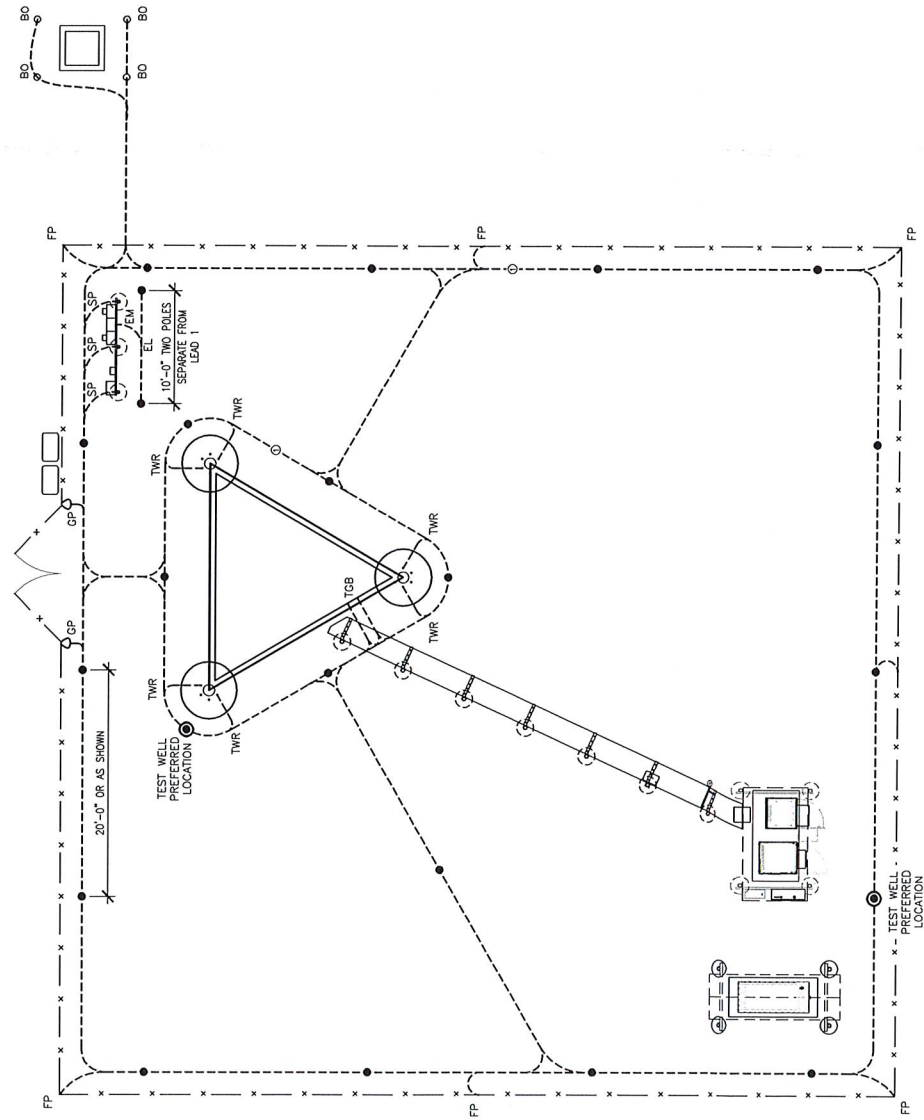
US-MN-5481
 PONSFORD

45520 COUNTY HWY 44
 PONSFORD, MN 56475

SHEET CONTENTS:
 GROUNDING PLAN

| | |
|-------------|----------|
| DRAWN BY: | TLS |
| CHECKED BY: | SJD |
| REV. 1 | 06-02-20 |
| REV. 2 | 05-02-20 |

G-2



NORTH
 1 GROUNDING PLAN
 SCALE: NTS

NOT FOR
 CONSTRUCTION

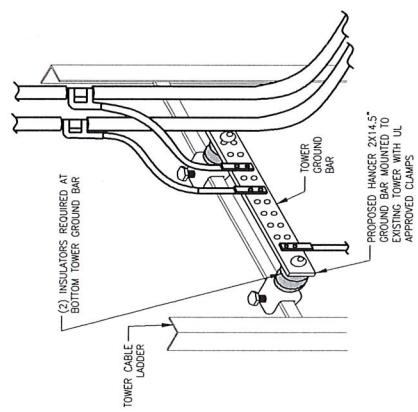
PROJECT
 US-MN-5481
 FLZE ID: 17098918

US-MN-5481
 PONSFORD

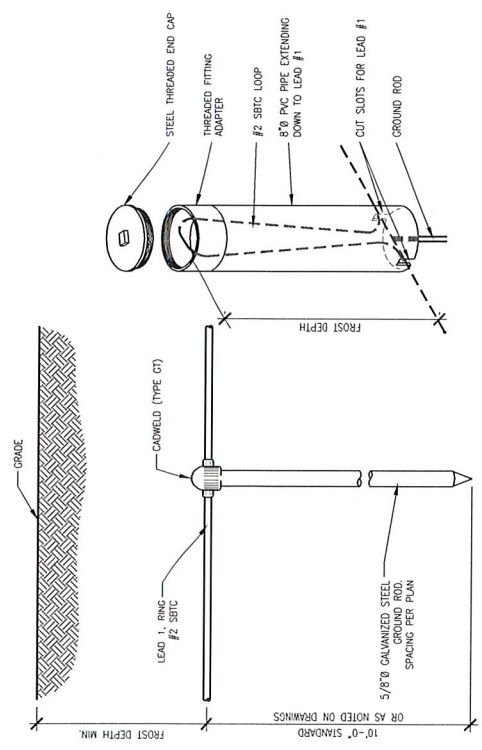
45520 COUNTY HWY 44
 PONSFORD, MN 56475

SHEET CONTENTS:
 GROUNDING DETAILS

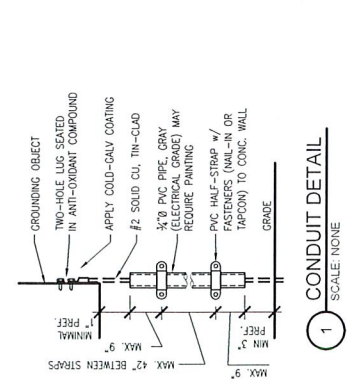
| | |
|-------------|----------|
| DRAWN BY: | TLS |
| CHECKED BY: | SHD |
| DATE: | 06.25.23 |
| REV. 2 | 02.02.23 |



3 TOWER GROUND BAR DETAIL
 SCALE: NONE

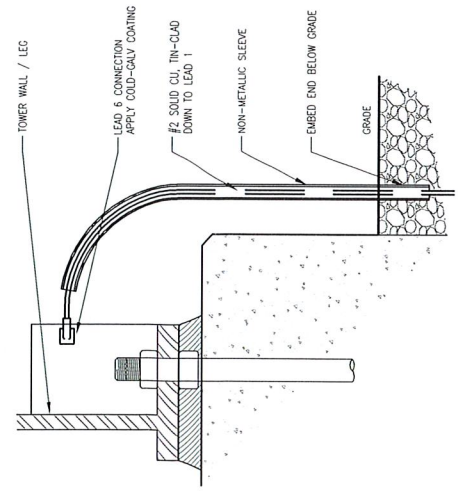


4 GROUND RING & ROD DETAIL
 SCALE: NONE



1 CONDUIT DETAIL
 SCALE: NONE

NOTE: IF NO FLANGES ARE PROVIDED, USE BASE PLATE. OR CONTACT TOWER MANUFACTURER.



2 REBAR GROUNDING DETAIL
 SCALE: NONE

NOT FOR
 CONSTRUCTION

PROJECT
 US-MN-5481
 FUZE ID: 17096918

US-MN-5481
 PONSFORD

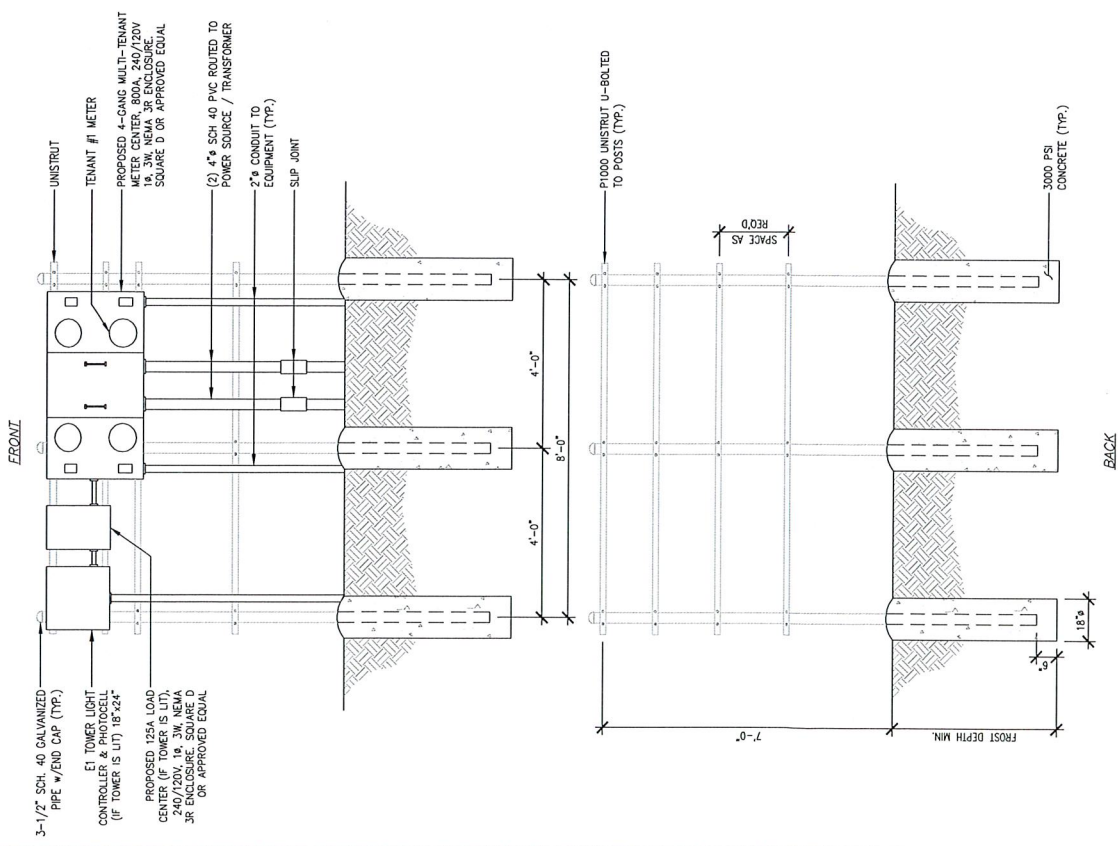
45520 COUNTY HWY 44
 PONSFORD, MN 56475

SHEET CONTENTS:
 METER UTILITY FRAME DETAIL

| | |
|-------------|----------|
| DRAWN BY: | TLS |
| CHECKED BY: | SSD |
| DATE: | 06/22/23 |
| REV: | 2 |
| DATE: | 02/05/23 |

U-2

ELECTRIC SERVICE NOTES:
 ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (LATEST EDITION), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES. THE CONTRACTOR SHALL BE RESPONSIBLE IN FORCE. ANY INSTALLATION WHICH WOULD VOID THE U.L. LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
 COORDINATE ELECTRIC SERVICE WITH LOCAL POWER UTILITY COMPANY. COORDINATE WITH UTILITY FOR METER TYPE AND CONNECTION.
 ALL CONDUIT SHALL BE SEALED WATERTIGHT UNTIL FINAL TERMINATIONS ARE MADE.
 PROVIDE PULL CORD IN ALL CONDUITS. SECURE AT EACH END.
 ADJUST DEPTH OF CONDUITS TO PASS ABOVE GROUNDING SYSTEM.
 PROVIDE 18 INCH (MIN.) RADIUS ELBOWS FOR ALL BENDS.
 PROVIDE PNEUMATIC ENGRAVED NAMEPLATES AT THE SERVICE DISCONNECT LABELS; "SERVICE DISCONNECT," & "NOTE: ENGINE GENERATOR NEUTRAL IS ALSO BONDED TO GROUND AT THE SERVICE DISCONNECT." PROVIDE ADDITIONAL NAMEPLATES NOTING TYPE AND LOCATION OF STANDBY POWER SOURCE.



1 METER UTILITY FRAME DETAIL
 SCALE: NONE

PREPARED FOR:
verticalbridge
 THE TOWERS, LLC
 22 WEST ATLANTIC AVENUE, SUITE 310
 DELRAY BEACH, FL 33444

NOT FOR
 CONSTRUCTION

DESIGN
 1
 500 N. W. 10TH AVENUE
 EDEEN PARKER, MN 55344
 (952) 980-6296 MN 55344
 WWW.DESIGN1P.COM

PROJECT
 US-MN-5481
 FUZE ID: 17096918

US-MN-5481
 PONSFORD

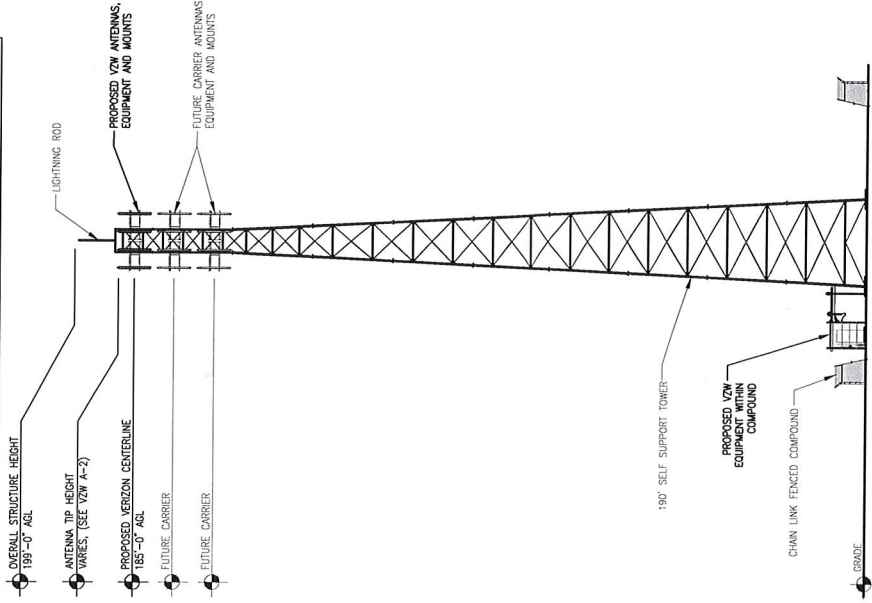
45520 COUNTY HWY 44
 PONSFORD, MN 56475

SHEET CONTENTS:
 VERIZON SITE PLAN
 TOWER ELEVATION

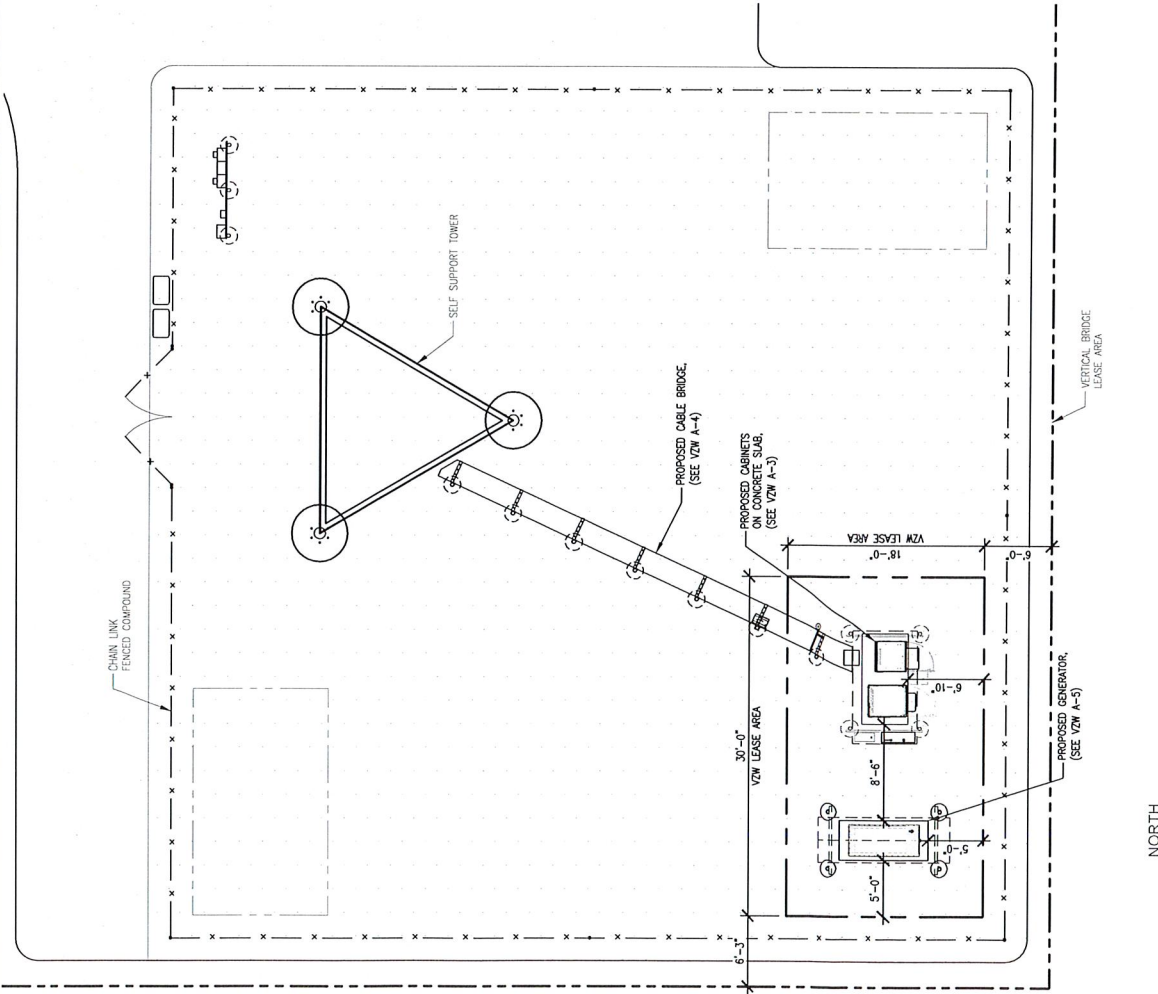
DRAWN BY: TJS
 CHECKED BY: SID
 REV. 1: 08/02/23
 REV. 2: 02/05/23

VZWA-1

- NOTES:
1. THESE DRAWINGS DO NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, OF THE ACCURACY OF THE STRUCTURAL ANALYSES AND THE PERFORMANCE OF THE COMPLETED CONSTRUCTION AS SHOWN ON THESE DOCUMENTS AND THE STRUCTURAL ANALYSES.
 2. NO STRUCTURAL ANALYSIS FOR THE MOUNT HAS BEEN PERFORMED AS PART OF THESE DRAWINGS.
 3. PLEASE COORDINATE ANY STRUCTURAL CONCERNS/MATTERS OR ANY LOADING MODIFICATIONS TO THE CONSULTANT WHO AUTHORED THE ANALYSIS AND NOTIFY DESIGN 1 IMMEDIATELY OF THE ISSUE.
 4. EQUIPMENT SLAB AND GENERATOR FOUNDATION TO BE EXCAVATED AND CONSTRUCTED IN ACCORDANCE WITH RECOMMENDATIONS AND SPECIFICATIONS OF THE GEOTECHNICAL REPORT WHICH IS NOT INCLUDED IN THIS PACKAGE. DISCREPANCIES BETWEEN THE REPORT AND THE OTHER DOCUMENTS TO BE IMMEDIATELY REPORTED TO VERIZON WIRELESS AND THE DESIGNER.
 5. CONTRACTOR TO ENSURE TIP OF ANTENNAS DO NOT EXCEED TOWER HEIGHT.
 6. ELEVATION IS SHOWN FOR GENERAL DIAGRAMMATIC PURPOSES ONLY. DO NOT SCALE.
 7. THE STRUCTURAL ANALYSIS FOR THE MOUNTS (BY OTHERS) SHALL BE PER THE VERIZON NETWORK STANDARD NSTD-445. ALL LOADING AND DESIGN SHALL BE PER THE TIA-222-H STANDARD.



2 TOWER ELEVATION
 SCALE: 1" = 30'-0"



1 VERIZON SITE PLAN
 SCALE: 3/32" = 1'-0"

NOT FOR
 CONSTRUCTION

PROJECT
 US-MN-5481
 FUZE ID: 17096918

US-MN-5481
 PONSFORD

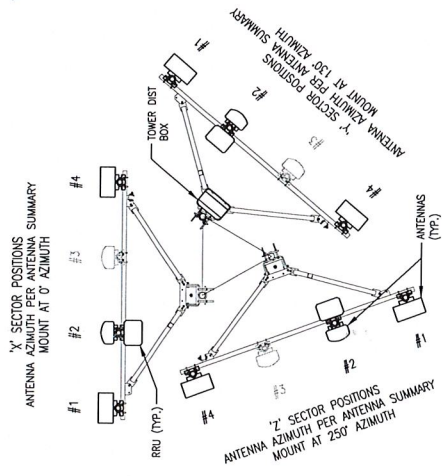
45520 COUNTY HWY 44
 PONSFORD, MN 56475

SHEET CONTENTS:
 RFDS INFORMATION
 RFDS PLUMBING DIAGRAM
 ANTENNA MOUNTING DETAIL

| | |
|-------------|----------|
| DRAWN BY: | TLS |
| CHECKED BY: | SJD |
| REV. 1: | 08-02-25 |
| REV. 2: | 02-05-25 |

VZWA-2

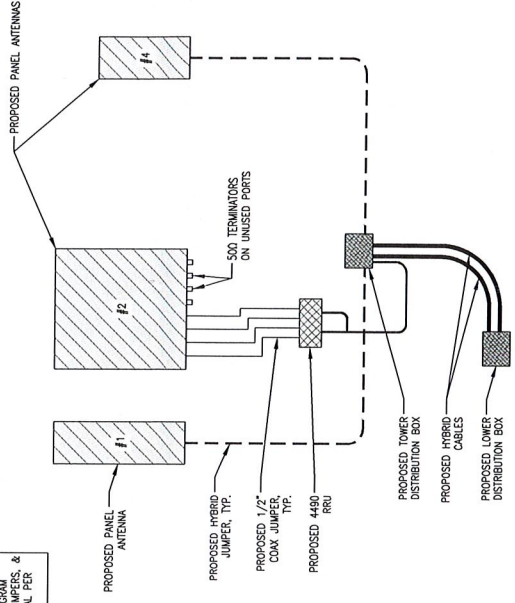
- NOTES:
1. VERIZON WIRELESS GC TO SUPPLY AND INSTALL THE MOUNTS. THE MOUNTS MUST MEET THE VERIZON WIRELESS MOUNT STANDARD (MST)-445. THE GC SHALL BE RESPONSIBLE TO OBTAIN A LICENSED STRUCTURAL ENGINEER IN THE STATE OF THE PROJECT AND SUBMIT THE PE-STAMPED REPORT TO VERIZON PRIOR TO CONSTRUCTION. THE GC SHALL BRING ANY CONCERNS OR DISCREPANCIES TO THE ATTENTION OF THE CONSTRUCTION ENGINEER AND ENGINEER OF RECORD. ANTENNA MOUNT & ANTENNA ARRAY DOES NOT IMPEDE SAFETY.
 2. TIE-BACKS NOT SHOWN FOR CLARITY.



3 ANTENNA MOUNTING DETAIL
 SCALE: 3/16" = 1'-0"



NOTE: THE DIASRAM ANTENNAS, JUMPERS, & RADIUS TYPICAL PER SECTOR



4 RFDS PLUMBING DIAGRAM

| ANTENNA KEY | | EQUIPMENT KEY | | | | | | | | | |
|-------------|----------|---------------|-----|--------------|---------------|----------|----------------|-------------|----------------|---------------|---------------|
| AZIMUTH | POSITION | FUNCTION | QTY | MANUFACTURER | MODEL | MOD TYPE | ANTENNA LENGTH | ANTENNA TIP | ANTENNA CENTER | ELEC DOWNMILL | MECH DOWNMILL |
| 0° | 1.0 | 32TX/RX | 1 | ERICSSON | AR6283 | FCS/AWS | 48.0" | 187.0" | 185.0" | 2' | 0" |
| X SECTOR | 2.1 | TX/RX1 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.2 | TX/RX2 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.3 | TX/RX3 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.4 | TX/RX4 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.5 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| | 2.6 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| | 2.7 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| | 2.8 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| 0° | 3.0 | 64TX/RX | 1 | ERICSSON | AR6419 | C-BAND | 28.3" | 186.2" | 185.0" | 3' | 0" |
| 130° | 1.0 | 32TX/RX | 1 | ERICSSON | AR6283 | FCS/AWS | 48.0" | 187.0" | 185.0" | 2' | 0" |
| Y SECTOR | 2.1 | TX/RX1 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.2 | TX/RX2 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.3 | TX/RX3 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.4 | TX/RX4 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.5 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| | 2.6 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| | 2.7 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| | 2.8 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| 0° | 4.0 | 64TX/RX | 1 | ERICSSON | AR6419 | C-BAND | 28.3" | 186.2" | 185.0" | 3' | 0" |
| 130° | 1.0 | 32TX/RX | 1 | ERICSSON | AR6283 | FCS/AWS | 48.0" | 187.0" | 185.0" | 2' | 0" |
| Z SECTOR | 2.1 | TX/RX1 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.2 | TX/RX2 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.3 | TX/RX3 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.4 | TX/RX4 | 1 | JMA WIRELESS | MX08F0685-BHG | 700/850 | 96.0" | 189.0" | 185.0" | 1' | 0" |
| | 2.5 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| | 2.6 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| | 2.7 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| | 2.8 | DC-DC | 1 | ANDREW | LDFA-50A | 50A | 10" | | | | |
| 0° | 5.0 | 64TX/RX | 1 | ERICSSON | AR6419 | C-BAND | 28.3" | 186.2" | 185.0" | 3' | 0" |

| | |
|----------------|------|
| CABLE BRIDGE = | 42' |
| RAD CENTER = | 185' |
| TOTAL = | 420' |

- ADDITIONAL:
- (1) DISTRIBUTION BOX, MODEL RAZDC-6627-PF-48 (ON TOWER)
 - (2) 8 X 12 HYBRID CABLE, HUBER+SUHNER MODEL 85205118 (ON CABLE BRIDGE)
 - (3) 1 X 4 HYBRID JUMPER, HUBER+SUHNER MODEL 85243897 (DIST. BOX TO Y-SECTOR RRU)
 - (4) 1 X 4 HYBRID JUMPER, HUBER+SUHNER MODEL 85243898 (DIST. BOX TO X & Z-SECTOR RRUs)
 - (5) 1 X 4 HYBRID JUMPER, HUBER+SUHNER MODEL 85243899 (DIST. BOX TO X & Z-SECTOR ANTENNAS)
 - (6) 1 X 4 HYBRID JUMPER, HUBER+SUHNER MODEL 85243884 (DIST. BOX TO X & Z-SECTOR ANTENNAS)
 - (7) ANDREW COAX JUMPER, MODEL LPFA-50A, 10' EACH (RRU TO ANTENNA)
 - (8) DC-DC UP-CONVERTER UNIT (IN CABINET)
 - (9) DC-DC UP-CONVERTER MODULE (IN CABINET)
 - (10) 1-2W 500 TERMINATOR

1 ANTENNA KEY

2 EQUIPMENT KEY

NOT FOR
 CONSTRUCTION

PROJECT
 US-MN-5481
 FUZE ID: 17096918

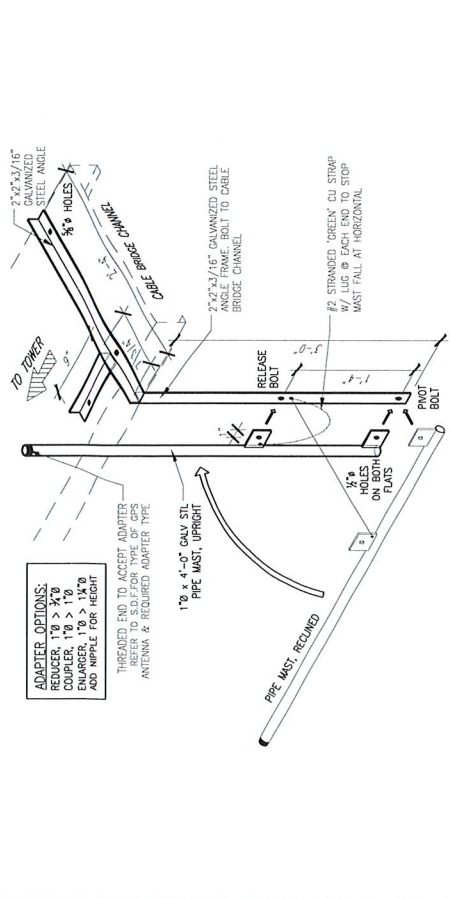
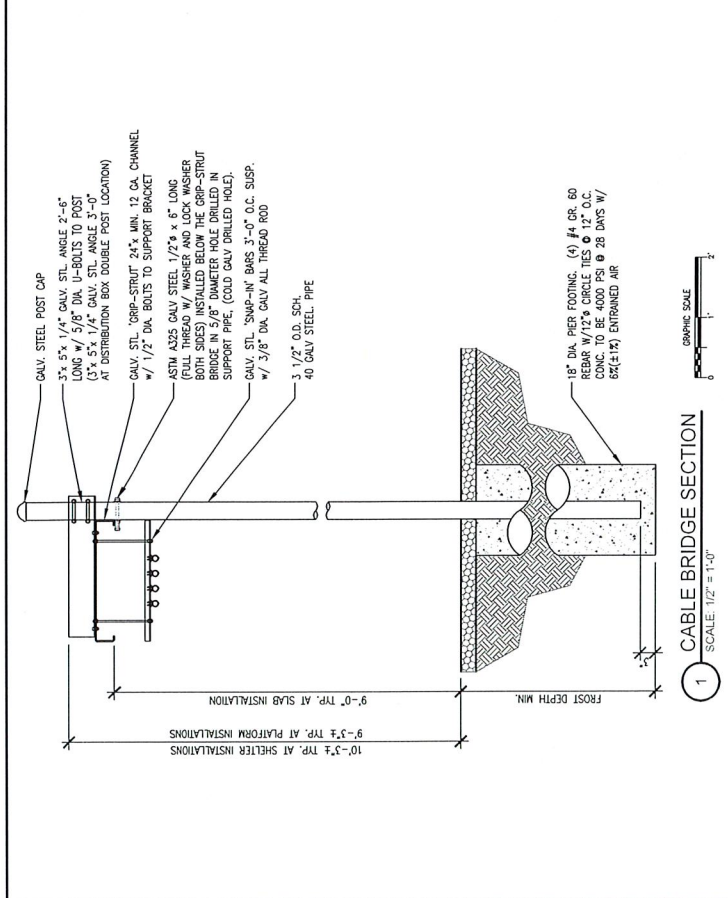
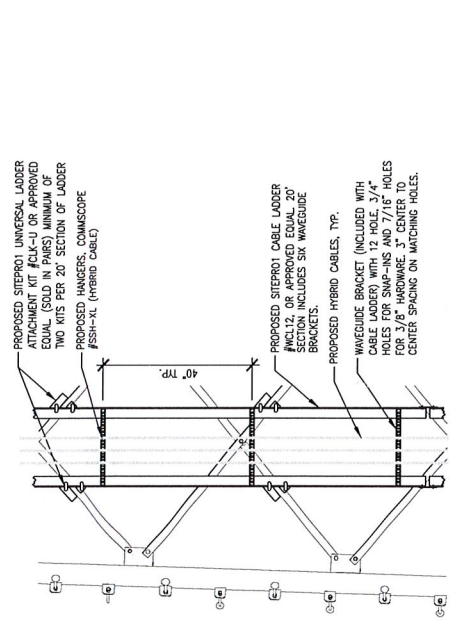
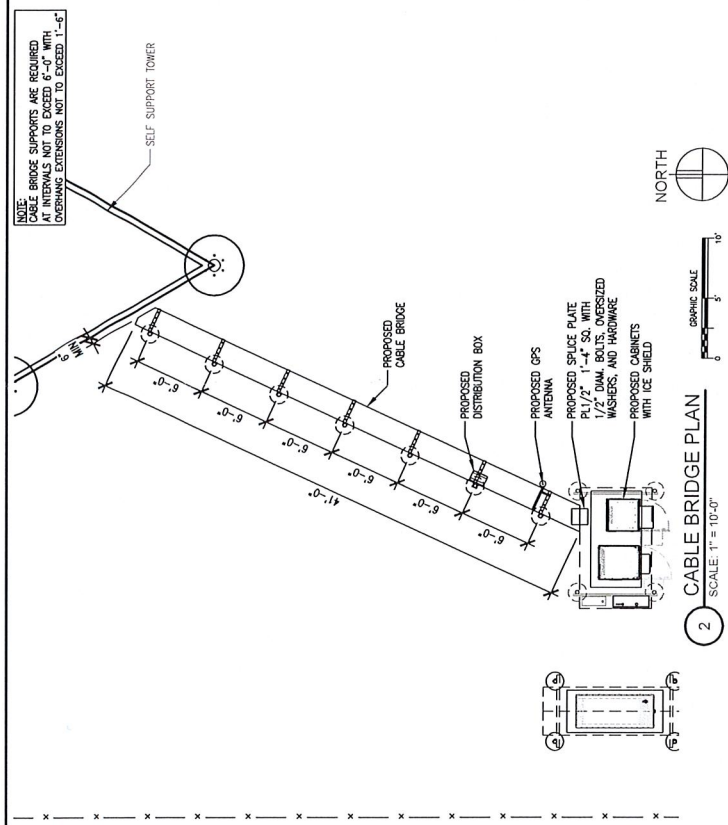
US-MN-5481
 PONSFORD

45520 COUNTY HWY 44
 PONSFORD, MN 56475

SHEET CONTENTS:
 CABLE BRIDGE DETAILS
 GPS DETAILS

DESIGNED BY: T.S.
 CHECKED BY: S.D.
 REV. NO: 04-02-20
 REV. 2: 02-03-20

VZWA-4



4 CABLE LADDER DETAIL

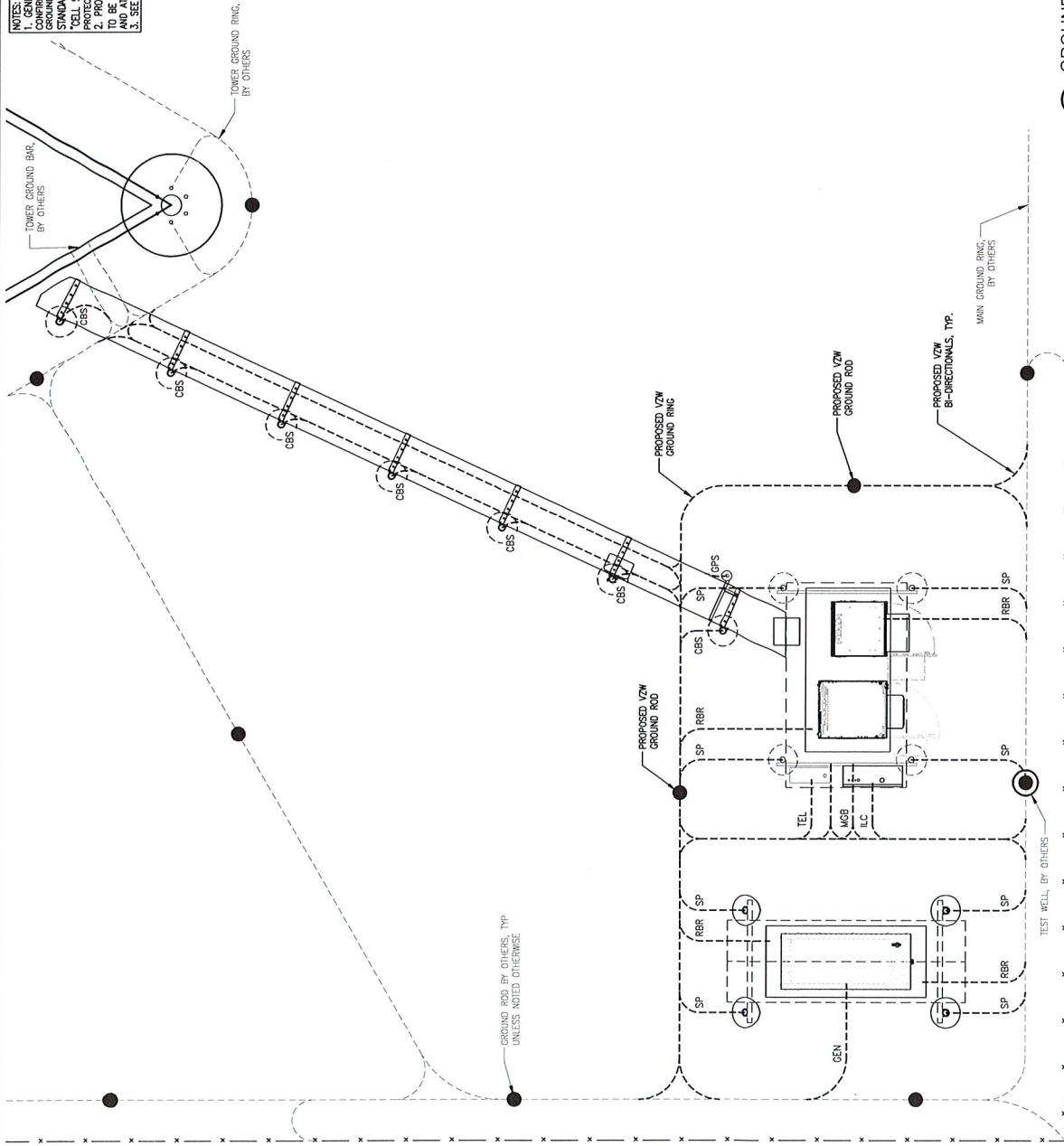
3 GPS ANTENNA MOUNTING

NOT FOR
 CONSTRUCTION

| | |
|-------------|----------|
| DRAWN BY: | TJS |
| CHECKED BY: | SK |
| REV.1 | 06/02/20 |
| REV.2 | 02/03/20 |

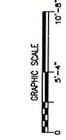
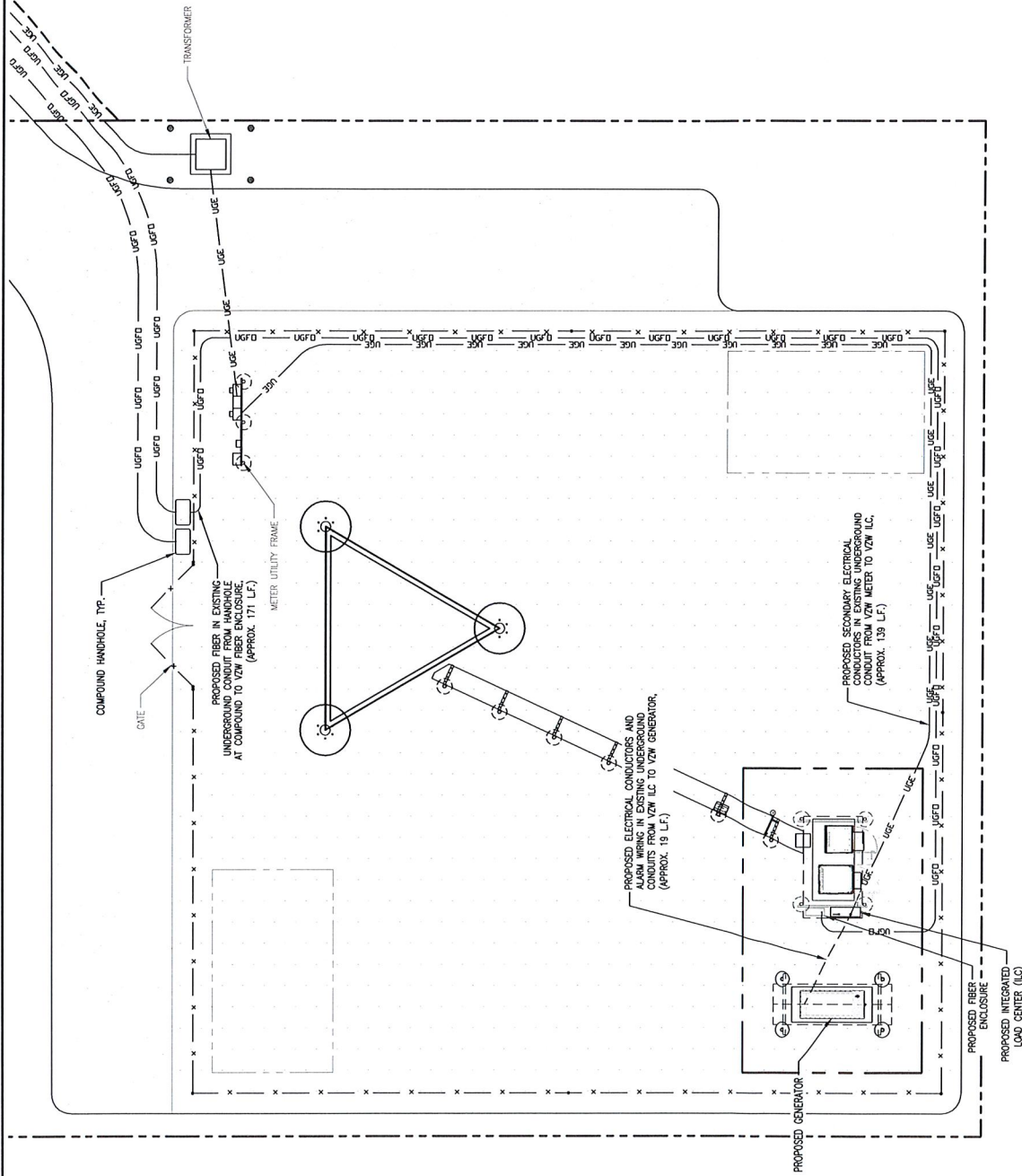
VZW G-1

NOTES:
 1. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THE INSTALLATION OF ALL GROUNDING MEETS THE VERIZON NETWORK STANDARD NUMBERS "NSTD46" DOCUMENTS TITLES "CELL SITE AND MICROWAVE RADIO STATION GROUNDING" AND "GROUNDING FOR OPERATIONS AND MAINTENANCE EQUIPMENT".
 2. ALL GROUNDING EQUIPMENT COMPONENTS TO BE GROUNDED PER MANUFACTURER'S SPECS AND ATTACHED TO MAIN BUSS BAR.
 3. SEE SHEET G-1 FOR ADDITIONAL NOTES.



NORTH
GROUNDING PLAN
 SCALE: NTS
 1

POWER DESIGN NOTES:
 POWER TO BE INSTALLED PER UTILITY
 COORDINATION REPORT.
 SEE SHEET 0-1 FOR ADDITIONAL NOTES.



1 SITE UTILITY PLAN
 SCALE: 3/32" = 1'-0"

PREPARED FOR:
Verticalbridge
 THE TOWERS, LLC
 22 WEST ATLANTIC AVENUE, SUITE 310
 DELRAY BEACH, FL 33444

NOT FOR
 CONSTRUCTION

DESIGN 1
 875 W. WASHINGTON ST.
 EDEN PRAIRIE, MN 55344
 (952) 903-9799
 WWW.DESIGN1EP.COM

PROJECT
 US-MN-5481
 FUZE ID: 17066918
 US-MN-5481
 PONSFORD

45520 COUNTY HWY 44
 PONSFORD, MN 56475

SHEET CONTENTS:
 VZW UTILITY PLAN

DRAWN BY: TJS
 CHECKED BY: SJD
 REV 1: 08/02/25
 REV 2: 02/03/25

VZW U-1

NOT FOR
 CONSTRUCTION



PROJECT
 US-MN-5481
 FUZE ID: 17096918
US-MN-5481
PONSFORD

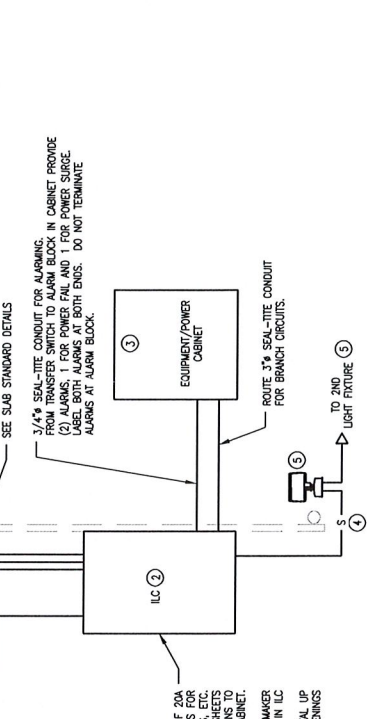
45520 COUNTY HWY 44
 PONSFORD, MN 56475
 SHEET CONTENTS:
 CONDUIT ROUTING PLAN
 ONE-LINE ELECTRIC DIAGRAM

| | |
|-------------|----------|
| DRAWN BY: | TLS |
| CHECKED BY: | SJD |
| DATE: | 06/20/25 |
| REV. 1: | 06/20/25 |
| REV. 2: | 06/20/25 |

VZW U-2

- GENERAL NOTES**
- CONTRACTOR SHALL PERFORM WORK ELECTRICAL (GROUNDING & BONDING) IN ACCORDANCE WITH ALL APPLICABLE COVERING STATE & LOCAL CODES AND O.S.H.A. REGULATIONS.
 - ALL CONDUIT TYPES SHALL BE TYPE THHN UNLESS NOTED OTHERWISE.
 - LABEL METER & DISCONNECT PER NEC.
 - EQUIPMENT AND MATERIALS SHOWN IN DIAGRAM AND LISTED IN KEY (OR APPROX) EQUAL) TO BE PROVIDED BY CONTRACTOR UNLESS NOTED OTHERWISE.

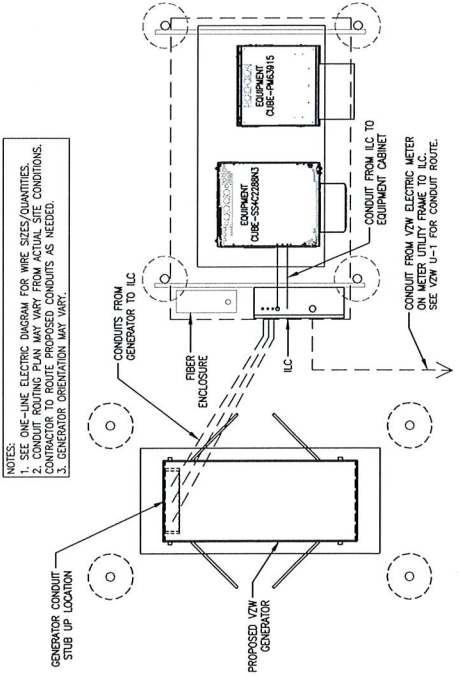
- 2" CONDUIT FOR MAIN WIRING:**
- (2) #3/0 CU
 - (1) #1/0 CU NEUTRAL
 - GROUND
- 3/4" CONDUIT FOR BLOCK HEAVY/BATTERY CHARGE CIRCUITS:**
- (5) #12 GROUND
 - (2) #16 GROUND
- 3/4" CONDUIT FOR START CIRCUIT AND ALARMS:**
- (2) 16 GA CU
- LABEL ALL ALARMS IN GENERATOR AND ALARM CABINET. DO NOT TERMINATE ALARMS AT ALARM BLOCK**
- SEE SUB STANDARD DETAILS**



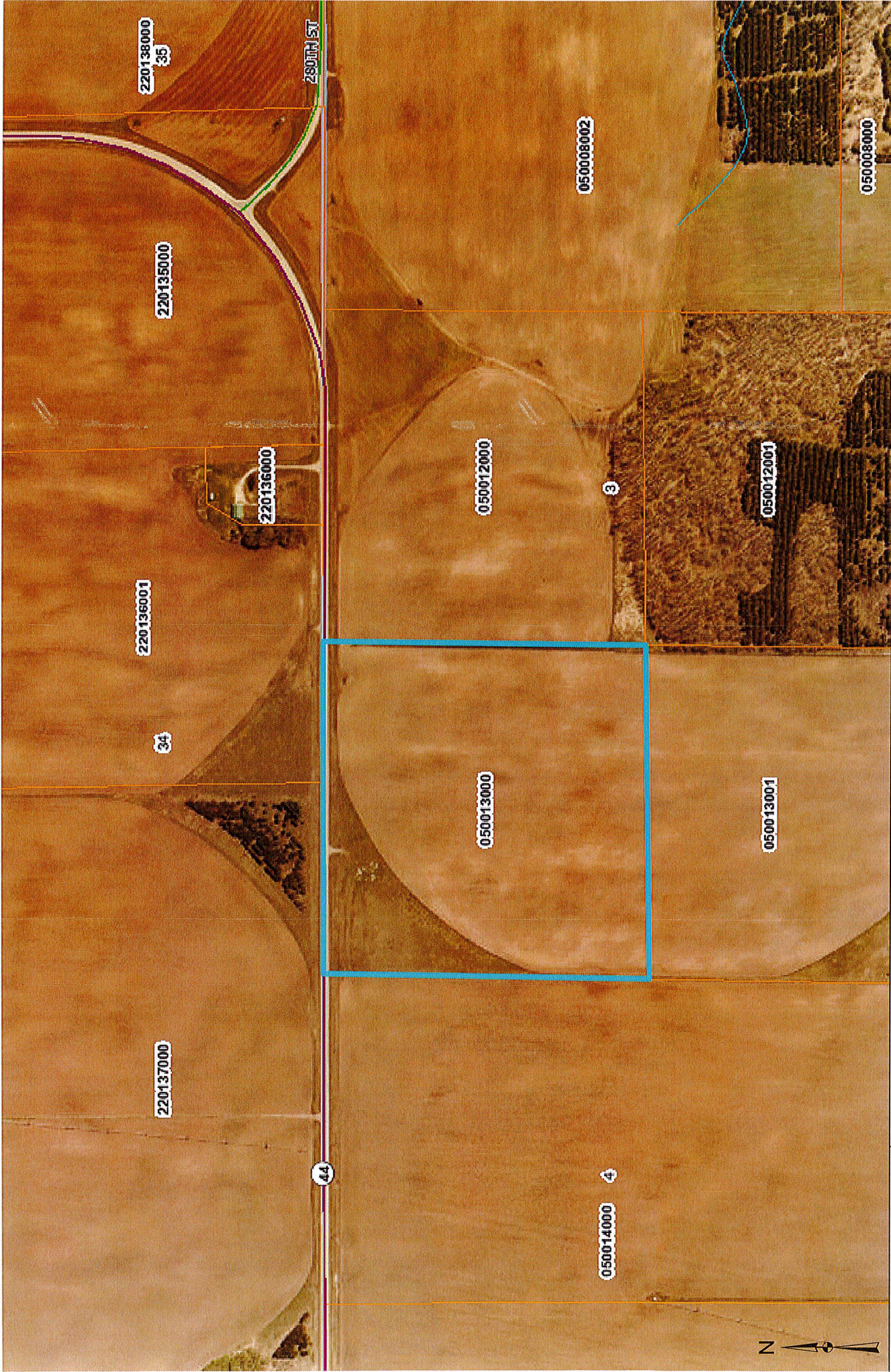
ELECTRICAL EQUIPMENT LIST & KEY

| KEY NOTE | ALT. | MANUFACTURER PART NUMBER | MANUFACTURER | DESCRIPTION |
|----------|----------|--------------------------|-------------------------|--|
| ① | - | - | - | UTILITY CO. APPROVED 200A METER WITH MCB/DISCONNECT |
| ② | GEN. | AA3000-1PH-42-3R | ASCO POWER TECHNOLOGIES | 1000L SERIES, SINGLE PHASE, 200A POWER TRANSFER LOAD CENTER (PROVIDED BY VERIZON) |
| ③ | W/O GEN. | AA3000-1PH-3R6C | - | 1000L SERIES, SINGLE PHASE, 200A POWER TRANSFER LOAD CENTER W/CAM-LOCK (PROVIDED BY VERIZON) |
| ④ | - | E357 | DAYTON | PUNCH DOWN ALARM TERMINAL BLOCK (LOCATED WITHIN EQUIPMENT) |
| ⑤ | - | DLF, PE 14 BZ | LITHONIA | LIGHT FIXTURE CONTROL & WEATHERPROOF CASING |
| | - | - | - | OUTDOOR INTEGRATED LED FLOOD LIGHT FIXTURE - MOUNT PER STANDARD DETAILS |

② ONE-LINE ELECTRIC DIAGRAM
 SCALE: NONE



① CONDUIT ROUTING PLAN
 SCALE: 1/4" = 1'-0"



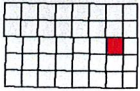
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Becker County

1:9,028

Date: 3/6/2026

This map is not a substitute for accurate field surveys or for locating actual property lines and any adjacent features.



Carsonville

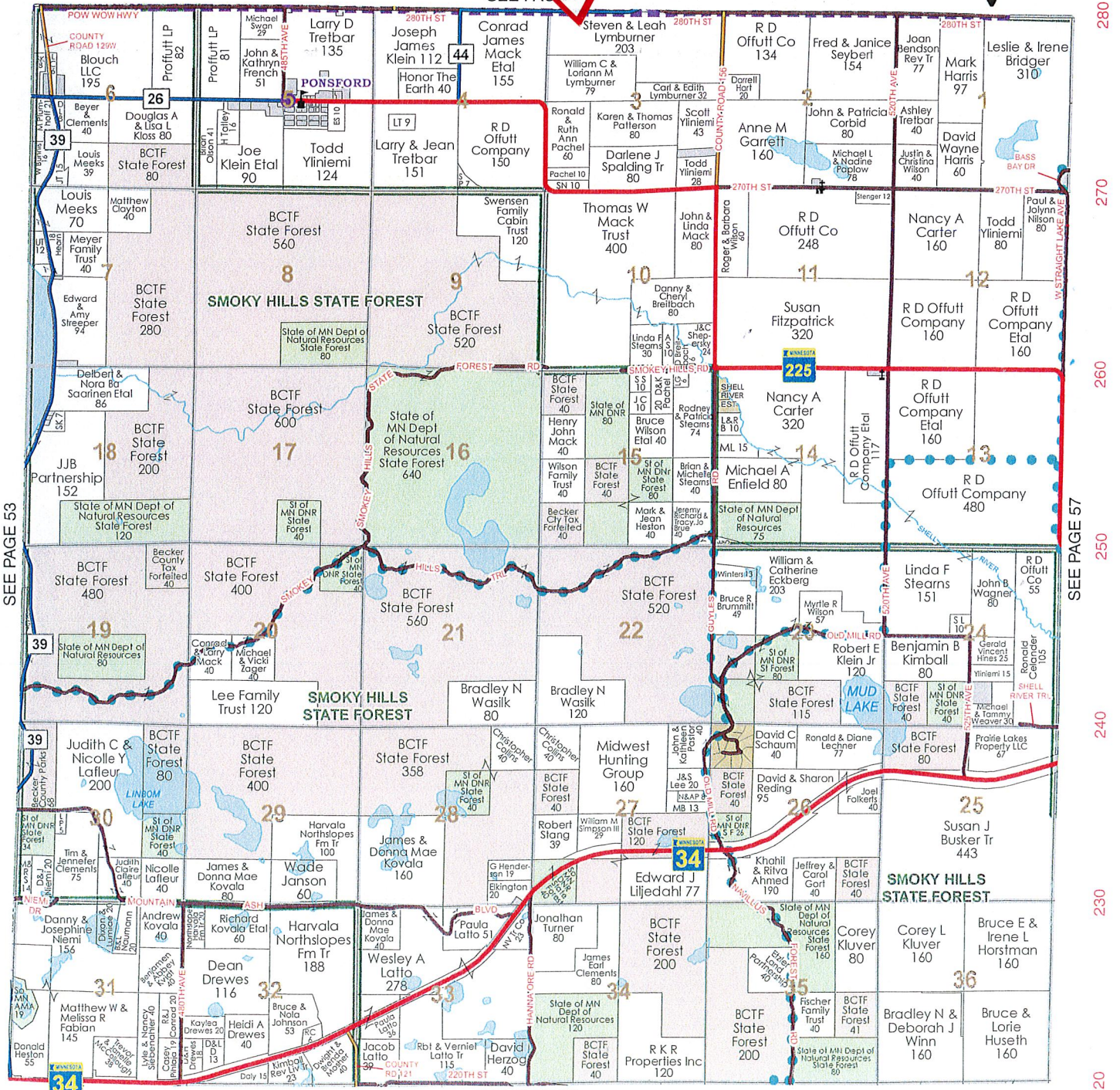
Township 140N - Range 37W

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