CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

VZW SITE NAME BUSINESS DRIVE

MDG LOCATION # 5000954019

FUZE PROJECT # 2612115

125' MONOPOLE

LESSEE:

VERIZON WIRELESS

PHONE: (847) 841-0694

855 COMMUNITY DRIVE

CONTACT: MIKE REEVE

PHONE: (608) 643-4100

PHONE: (855) 781-7542

FIBER PROVIDER

EMAIL: mreeve@ramaker.com

SAUK CITY, WI 53583

A&E FIRM

RAMAKER

ROLLING MEADOWS, IL 60008

CONTACT: KATHY COGSWELL

1701 GOLF ROAD, TOWER 2, SUITE 400

EMAIL: kathryn.cogswell@Verizonwireless.com



VB SITE NAME BUSINESS DRIVE

> VB SITE # US-WI-5737

ADDRESS 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083



CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

RAMAKER

(608) 643-4100 www.ramaker.com

hereby certify that this plan, specification, or report was prep

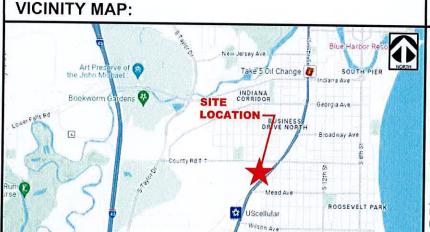


9/30/2024

DATE 06/25/2024

60498

SHEET INDEX SHEET DESCRIPTION COVER SHEET SCOPE OF WORK LOCATION PLAN **ENLARGED SITE PLAN** SITE GRADING PLAN hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>Wisconsin</u>. ACCESS ROAD DETAILS DRAINAGE GRADING & EROSION CONTROL NOTES & DETAILS FENCE DETAILS SITE SIGNAGE DETAILS FOUNDATION DETAILS GENERATOR FOUNDATION DETAILS SITE ELEVATION UTILITY ROUTING PLAN ENLARGED UTILITY ROUTING PLAN GENERATOR UTILITY ROUTING PLAN VAULT SPEC, SHEET SITE GROUNDING & NOTES UTILITY DETAILS SINGLE LINE DIAGRAM GROUNDING DETAILS **GENERAL & GROUNDING NOTES** EXISTING SITE PHOTOS ENLARGED SITE PLAN GENERAL NOTES **EQUIPMENT PAD PLAN & NOTES EQUIPMENT PAD ELEVATION** A 9/10/24 REVISED UTILITY NOTES SITE ELEVATION ARK DATE DESCRIPTION ANTENNA INFORMATION PRELIMINARY SITE DETAILS PROJECT TITLE ANTENNA INFORMATION ANTENNA MOUNTING DETAILS **BUSINESS DRIVE** SITE DETAILS UTILITY ROUTING PLAN UTILITY RISER DIAGRAMS ROJECT INFORMATIO 2219 SAUK TRAIL RD GENERATOR UTILITY ROUTING PLAN SHEBOYGAN, WI 53083 GENERATOR SINGLE LINE DIAGRAM & ALARM WIRING SHEBOYGAN COUNTY ELECTRICAL AND GROUNDING NOTES SITE GROUNDING & NOTES TITLE SHEET **GROUNDING & ELECTRICAL DETAILS** SCALE: NONE



w Walgreens

Vashington Ave

REDWING

AERIAL MAP:

Ashland Ave

APPROVALS:

CONSTRUCTION MANAGER: LANDI ORD

PROJECT INFORMATION:

SITE ADDRESS: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

SITE COORDINATES:

LATITUDE: 43° 43' 49.32" N (43.730367°) LONGITUDE: 87° 43' 56.23" W (-87.732286°)

GROUND ELEVATION:

PARCEL OWNER:

MATHEW J. DROSS & LISA A. DROSS PARCEL ID: 59281425610

ZONING:

CURRENT ZONING: CLASS 2 COMMERCIAL JURISDICTION: CITY OF SHEBOYGAN

LESSOR:

VERTICAL BRIDGE

750 PARK OF COMMERCE DRIVE, SUITE 200 BOCA RATON, FL 33487

ALLIANT ENERGY

CONTACT: JOSH ANDREWS EMAIL: joshuaandrews@alliantenergy.com PHONE: (920) 459-6345

ELECTRIC PROVIDER

SCOPE OF WORK:

- (9) PROPOSED PANEL ANTENNAS WITH (1) PROPOSED ANTENNA SECTOR PLATFORM
- (6) PROPOSED TOP OF TOWER RRHs, (3) RRHs INTEGRATED WITH PANEL ANTENNAS
- (3) PROPOSED TOP OF TOWER OVP BOX WITH (3) ALARMS
- (1) PROPOSED 4'X11' EQUIPMENT CONCRETE PAD WITH ICE BRIDGE CANOPY (2) PROPOSED EQUIPMENT CABINETS
- (1) PROPOSED 4'-0"X10' GENERATOR CONCRETE PAD PROPOSED GENERATOR
-) PROPOSED 6' UTILITY STAND WITH ICE BRIDGE CANOPY
- (3) PROPOSED OVP BOX AT 6' UTILITY STAND
- (1) PROPOSED ILC CABINET (1) PROPOSED CHARLES CUBE
- (1) PROPOSED CONTACT ALARM BOX
- (3) PROPOSED 1.58" HYBRID CABLES WITH ICE BRIDGE
- INSTALL EQUIPMENT POWER AND FIBER

CODE COMPLIANCE:

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE ALL CODES REFERENCED ON PAGE GN-1 AND AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

PROJECT DESCRIPTION:

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

Know what's below. Call before you dig.

VW E-4

ANT-1 F-1 F-1A F-1B E-2

SHEET NUMBER

T-1

SOW

LP

C-1

C-2

C-3

C-3A

E-5 P-1

VW ANT-1 VW ANT-2 & 2A VW ANT-3

VW ANT-3B

ELECTRICAL DETAILS

GENERATOR CUT-SHEET

VW E-5 VW E-6 VW E-7

E-1C E-3 E-4

GN-1 VW C-1 VW C-2

LIGHTING SPECIFICATIONS

C-4, C-5, & C-6

C-7 C-8 C-9

VW B-1 VW B-2

VW EX-1 & 2

VW E-2 VW E-3

VW ANT-4 VW E-1 VW E-1A VW E-1B VW E-1C

VW ANT-3A

1 OF 2 & 2 OF 2 SURVEY

GROUNDING DETAILS

ATTACHMENTS

T-1

VERTICAL BRIDGE CONSTRUCTION SCOPE OF WORK

1.00 PERMITTING

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

- 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.
- 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.

- 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

CONSTRUCTION DRAWINGS GRADING PLAN FOR SITE CULVERT LOCATION(S) AND SIZES.

- A. CONTRACTOR SHALL INSTALL STYMIE LOCK SYSTEM AND VERTICAL BRIDGE LOCK ON COMPOUND GATE. VERTICAL BRIDGE LOCK COMBO (0951)
 - B. CONTRACTOR SHALL INSTALL MUSHROOM AND GATE STOPS.
- C. CONTRACTOR SHALL INSTALL 50'x50'x6' CHAINLINK FENCE WITH (3) RUNS OF BARBED WIRE ON TOP FOR MONOPOLE AND GUYED TOWERS. (75'x75'x6' FENCED COMPOUND FOR SST TOWER SITES)
- 5.00 TOWER AND FOUNDATION
- A. CONTRACTOR SHALL COORDINATE DELIVERY OF ANCHOR BOLTS, TEMPLATE AND TOWER STEEL WITH
- 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 LADDER AND ALL MISCELLANEOUS TOWER PARTS.
 - E. CONTRACTOR SHALL CONFORM TO SUPPLIED FAA HEIGHT VERIFICATION.

6.00 TOWER LIGHTING

- A. TOWER LIGHTING EQUIPMENT SHALL BE INSTALLED BY LIGHTING MANUFACTURE.
- B. CONTRACTOR SHALL SUPPLY AND INSTALL 100A SUB-PANEL WITH (3) 20 AMP BREAKERS FOR TOWER
- 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 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
- 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 GFCI ALL WEATHER RECEPTACLES ON H-FRAME.
- E. CONTRACTOR SHALL SUPPLY AND INSTALL 500-WATT METAL MALIDE FLOOD LIGHT 120 VOLT WITH TIMER SWITCH.

- 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 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 AND EVERY 300' (OR AT ANY BEND) WITH 2" CONDUIT FOR THE LIT FIBER PER THE CONSTRUCTION

MARK HAND-HOLES LIT FIBER

B. CONTRACTOR SHALL SUPPLY AND INSTALL A SEPARATE HAND-HOLE AT THE ROW, AT THE COMPOUND AND EVERY 300' (OR AT ANY BEND) WITH 2" CONDUIT FOR THE DARK FIBER PER THE CONSTRUCTION

MARK HAND-HOLES DARK FIBER FIBER

C. FIBER TO FOLLOW ACCESS ROAD TO ROW ALWAYS!

VERTICAL BRIDGE CM NOTES

CONTRACTOR NOTE

- NOISE PRODUCING CONSTRUCTION ACTIVITIES SHALL TAKE PLACE ONLY ON WEEKDAYS (MONDAY THROUGH SATURDAY, NON-HOLIDAY) BETWEEN THE HOURS OF 6:00 A.M. & 6:00 P.M., EXCEPT IN TIMES OF EMERGENCY REPAIR
- GENERAL CONTRACTOR TO REFERENCE THE VERTICAL BRIDGE UTILITY COORDINATION REPORT (UCR) FOR POWER COMPANY REQUIREMENTS REGARDING POWER CONDUITS.
- SPECIFIC GROUND EQUIPMENT LIGHTING REQUIRED TO ADDRESS CONSERVATION MEASURES OF NORTHERN LONG EARED BAT. SEE SHEETS VW B-2 & VW E-7.

VERTICAL BRIDGE CONSTRUCTION SCOPE OF WORK CON'T

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 SERARATE 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 LUMP SUM FEE FOR ALL VERIZON ANTENNA AND

EQUIPMENT UNDER TENANT CIVILS ON BID DOCUMENT. VERIZON TO PROVIDE ALL EQUIPMENT FOR

ANTENNA AND LINE INSTALLATION. CONTRACTOR SHALL PROVIDE CONSUMABLE MATERIALS AS NEEDED TO COMPLETED THE CO-LOCATION.

B. CONTRACTOR SHALL SUPPLY AND INSTALL HYBRID CABLES.

2.00 STARTUP COMMISSIONING

A. CONTRACTOR SHALL PROVIDE LUMP SUM FEE UNDER BID

CLARIFICATION/EXCEPTIONS SECTION

FOR COMMISSIONING AND START-UPS (AS REQUIRED BY "STANDARD VERIZION INSTALL). VERIZION

IS RESPONSIBLE FOR PAYMENT OF THESE SERVICES.

3.00 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.

PHOTO CONFORMATION REQUIRED.

B. VERIZON POWER SERVICE SHALL BE 200 AMPS
C. TYPICAL VERIZON ELECTRICAL POWER SERVICE INSTALL. SEE CONSTRUCTION DRAWINGS FOR POWER ROUTING

VERTICAL BRIDGE TIMELINE EXPECTATIONS

- Once NTP has been issued, contractor has (3) business days to provide a schedule to veritcal bridge construction manager and project manager.
- CONSTRUCTION STARTS WITHIN 7 DAYS OF NTP RECEIPT.
- DAILY SAFETY REPORTS ARE REQUIRED.
- DAILY SITE UPDATES WITH PHOTOS ARE REQUIRED.

- CLOSECUT APPROVAL WITHIN 60 DAYS OF NTP RECEIPT.

- TOWER STACKED (OTHUR) WITHIN 28 DAYS OF NTP RECEIPT.



CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS



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tification # Seal hereby certify that this plan, specification hereby certify that this plan, Specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Wisconsin.



9/30/2024 Date:

A 9/10/24 REVISED UTILITY NOTES

MARK DATE DESCRIPTION ISSUE PRELIMINARY

ROJECT TITLE:

DATE ISSUED 06/25/2024

BUSINESS DRIVE

ROJECT INFORMAT 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY SHEET TITLE:

SCOPE OF WORK

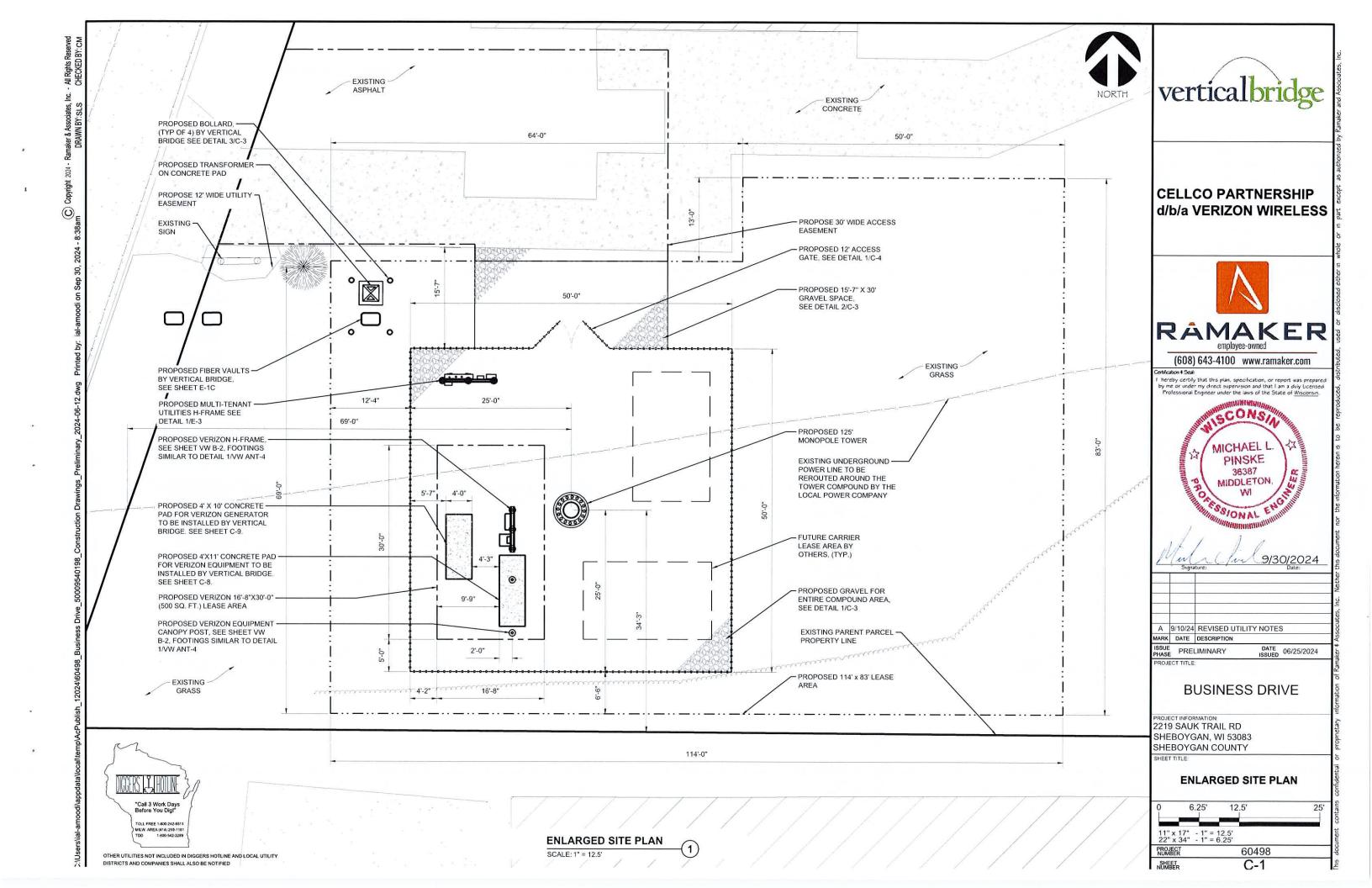
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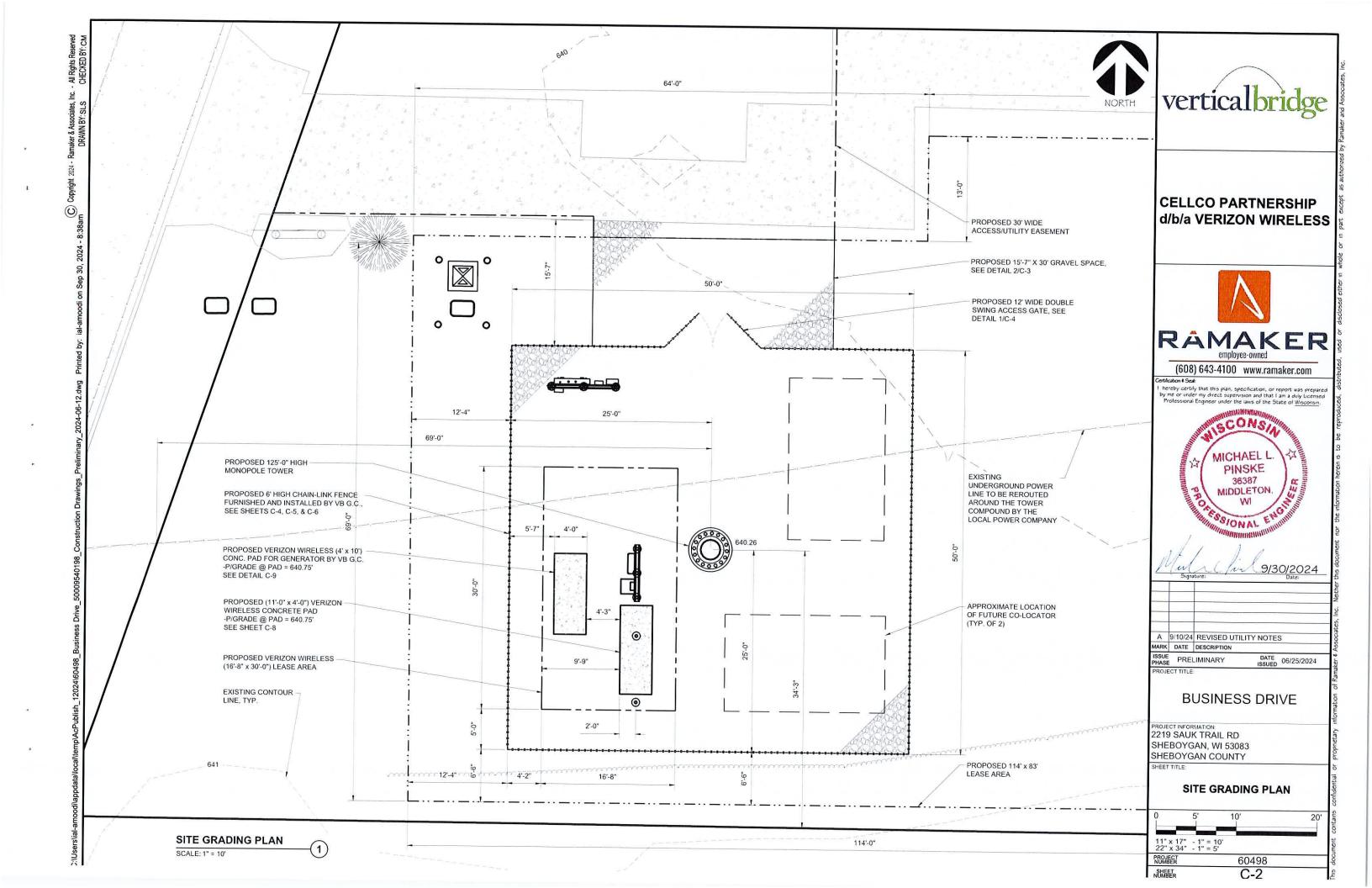
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(O)

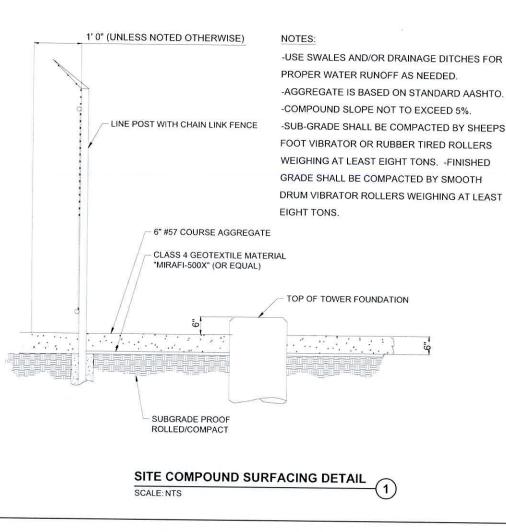




"Call 3 Work Days Before You Dig!"

DISTRICTS AND COMPANIES SHALL ALSO BE NOTIFIED

OTHER UTILITIES NOT INCLUDED IN DIGGERS HOTLINE AND LOCAL UTILITY

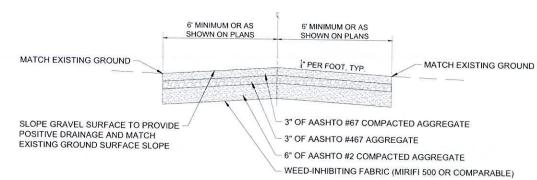


CONTRACTOR TO 4" DIA. GALVANIZED PROVIDE DOME CAP STEEL TUBING FILLED WITH CONCRETE. CONTRACTOR TO PAINT EXPOSED SURFACE YELLOW 1" CROWN CAST-IN-PLACE CONCRETE FOUNDATION 2500 PSI CONCRETE 10" DIA. MIN.

BOLLARD DETAIL

SCALE: NTS

(3)



NOTES:

1.) THE TURN-AROUND AREA SHALL BE CONSTRUCTED PER THE TYPICAL ACCESS DRIVE SECTION AS SHOWN ABOVE.







verticalbridge

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Cethcabon # Seal:

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Wisconsin.



9/30/2024

A 9/10/24 REVISED UTILITY NOTES

MARK DATE DESCRIPTION PRELIMINARY

BUSINESS DRIVE

DATE ISSUED 06/25/2024

PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

ACCESS ROAD DETAILS

PROJECT NUMBER 60498 C-3

SCALE: NONE

GRADING & EXCAVATING NOTES 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. DEWATERING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED

CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.

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 COMPILING CONCRETE THICKNESS

AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.

-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/BANDSCAPED AREAS, WHERE 90% STANDARD

REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS, PLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.

PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS, REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS

REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE 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 INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER'S APPROVAL

DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED/REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S

10. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.

ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.

ALL CUT AND FILL SLOPES SHALL BE MAXIMUM 2 HORIZONTAL TO 1 VERTICAL

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 MUDDY VEHICLES LEAVING THE SITE.

GENERAL EROSION & SEDIMENT CONTROL NOTES:

THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND DETAILS AS SHOWN HEREIN AND STIPULATED WITHIN STATE STANDARDS SHALL BE FOLLOWED AND INSTALLED IN A MANNER SO AS TO MINIMIZE SEDIMENT LEAVING THE SITE.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBING SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.

EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM 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 ENGINEERING IMMEDIATELY.

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 INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY

THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE.

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.

SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL

ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.

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.

SEEDING GUIDELINES:

FINAL STABILIZATION OF ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, SHALL BE LOAMED AND SEEDED. LOAM SHALL BE PLACED AT A MINIMUM COMPACTED DEPTH OF 4". RECOMMENDED SEEDING DATES FOR PERMANENT VEGETATION SHALL BE BETWEEN JUNE 15 THROUGH AUGUST 1 AND SEPTEMBER 15 THROUGH OCTOBER 15, TEMPORARY VEGETATIVE MEASURES SHALL CONSIST OF AN ANNUAL OR PERENNIAL RYE GRASS WITH RECOMMENDED SEEDING DATES BEING FROM JUNE 1 THROUGH AUGUST 15 AND SEPTEMBER 30 THROUGH NOVEMBER 30.

EVALUATE PROPOSED COVER

MATERIAL BEFORE SPREADING 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 MIXTURE IN AN ENVIRONMENTALLY AND ECONOMICALLY SOUND MANNER. THE RESULTS WILL GIVE THE COVER MATERIAL CHARACTERISTICS SUCH AS A pH AND FERTILIZATION NEEDS. THESE RESULTS SHALL BE KEPT ON-SITE BY THE CONTRACTOR AND AVAILABLE FOR REVIEW BY THE

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 QUANTITIES OF LIMESTONE AND PRE-PLANT FERTILIZER NEEDED PRIOR TO APPLYING. PRE-PLANT AMENDMENTS CAN 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 MIXTURES SHALL BE USED AS NOTED

DE GOED AG NOTED.			
SEED MIXTURE			
SPECIES/VARIETY	LBS/ACR		
CREEPING RED FESCUE	20		
KENTUCKY BLUEGRASS	20		
PERENNIAL RYEGRASS	5		

THE PREFERRED TIME FOR SEEDING THE COOL SEASON MIXTURE 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, HERBICIDE USE IS GREATLY REDUCED. HOWEVER, SEEDING MAY BE DONE AT ANY OF THE ABOVE NOTED TIMES.

NEWLY SEEDED AREAS SHOULD BE MULCHED TO INSURE ADEQUATE MOISTURE FOR SUCCESSFUL TURF ESTABLISHMENT AND TO PROTECT AGAINST SURFACE MOVEMENT OF SEDIMENT-BOUND AGROCHEMICALS AND SOIL EROSION. IF MULCHING PROCEDURES ARE NOT SPECIFIED ON PLANS, COMMERCIALLY AVAILABLE MULCHES CAN BE USED.

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9/30/2024

A 9/10/24 REVISED UTILITY NOTES ARK DATE DESCRIPTION

ISSUE PRELIMINARY DATE ISSUED 06/25/2024

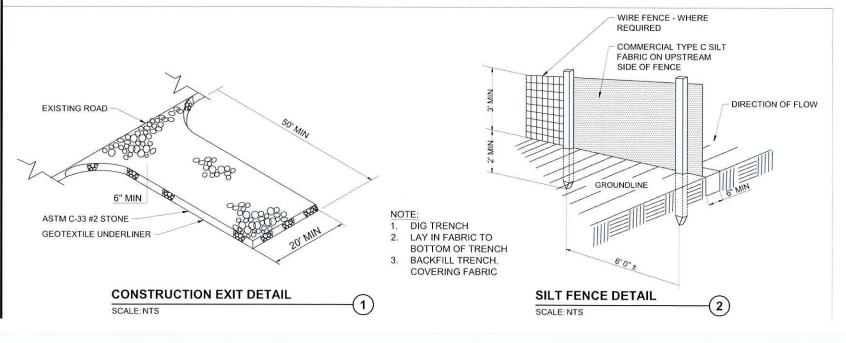
BUSINESS DRIVE

ROJECT INFORMATIO 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

DRAINAGE, GRADING & **EROSION CONTROL NOTES AND DETAILS**

SCALE: NONE

60498



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES

FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION

WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED

MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE

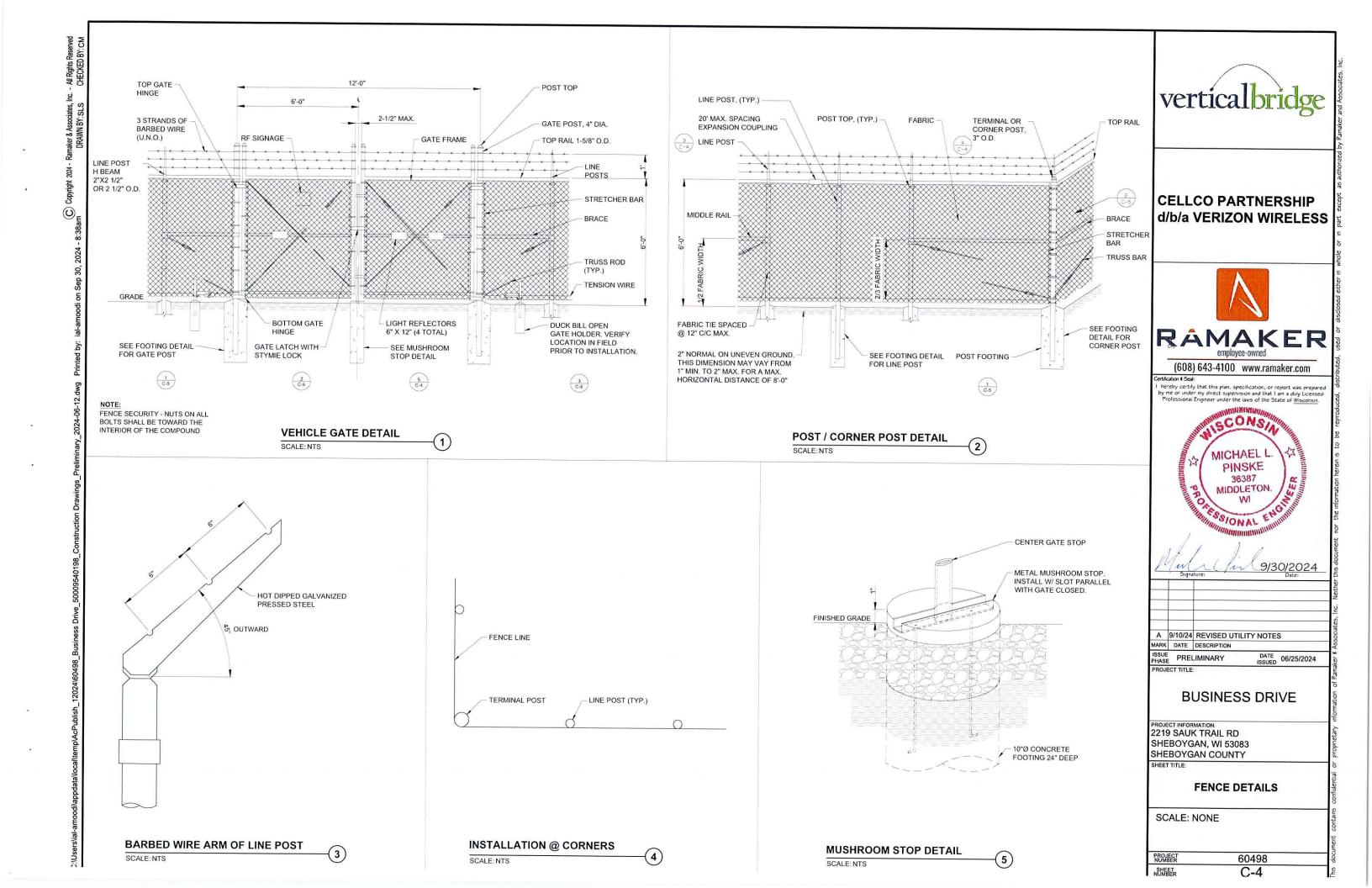
ALL SILT FENCE MATERIALS MUST BE LISTED ON THE CURRENT STATES. D.O.T. QUALIFIED PRODUCTS LIST

POSTS: STEEL EITHER T OR U TYPE.

FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING.

FILTER CLOTH: FILTER X. MIRAFI 100X' STABILINKA T140N OR APPROVED **EQUAL**

PREFABRICATED UNIT: GEOFAB. ENVIROFENCE OR APPROVED EQUAL.



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 DIPPED GALVANIZED OF 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 ZINC COATED CHAIN LINK WITH A BREAKING STRENGTH OF NOT LESS THAN 1290 LBS SHALL BE USED. THE FABRIC SHALL BE ZINC COATED BY THE HOT DIP PROCESS AFTER FABRICATION.

METAL POSTS - METAL POSTS (LINE, CORNER, TERMINAL, GATE POSTS, MIDDLE RAILS, BRACES AND TOP RAIL) SHALL BE HOT DIP GALVANIZED SCHEDULE 40 TUBULAR STEEL WITH AN OUTSIDE DIAMETER AS INDICATED ON THIS DRAWING. A POST TOP FITTING OF GALVANIZED STEEL WILL BE INSTALLED TO EXCLUDE MOISTURE.

POST CAPS - ALL POST CAPS TO USE THE BARBED WIRE OUTRIGGER BRACKET AND SHALL BE ATTACHED TO THE POST WITH TAMPER RESISTANT SCREWS, BRADS, OR BOLTS.

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.

MIDDLE RAIL - THE MIDDLE RAIL SHALL BE OF THE SAME MATERIAL AS THE TOP RAIL AND INSTALLED WITH HOT DIP GALVANIZED FITTINGS ATTACHED TO

BRACE RAIL - BRACE RAIL MATERIAL SHALL BE OF THE MATERIAL AS THE TOP RAIL AND LOCATED 2/3 OF THE DISTANCE UP FROM THE BOTTOM OF THE FABRIC. BRACE RAILS SHALL BE SECURELY FASTENED TO POSTS BY SUITABLE PRESSED STEEL

TRUSS RODS - SHALL BE 3/8" ROUND GALVANIZED STEEL RODS WITH GALVANIZED TURNBUCKLES. THE ZINC COATING SHALL NOT BE NOT LESS THAN 1.2 OUNCES PER SQUARE FOOT OF SURFACE.

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 LBS. THIS WIRE SHALL BE KEPT TAUT WITH GALVANIZED TURNBUCKLES AND ATTACHED TO POSTS WITH GALVANIZED HARDWARE OR CABLE

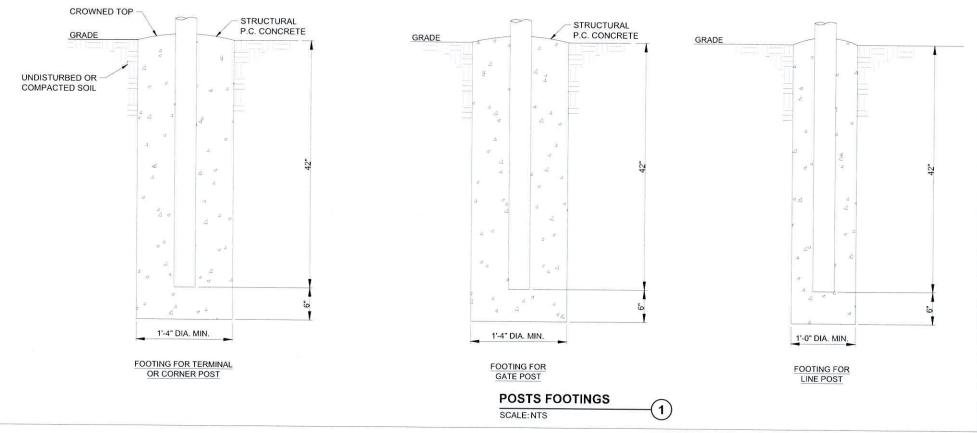
FABRIC TIES - THE FABRIC TIES SHALL BE ALUMINUM WIRE. NOT LESS THAN #9 GAGE.

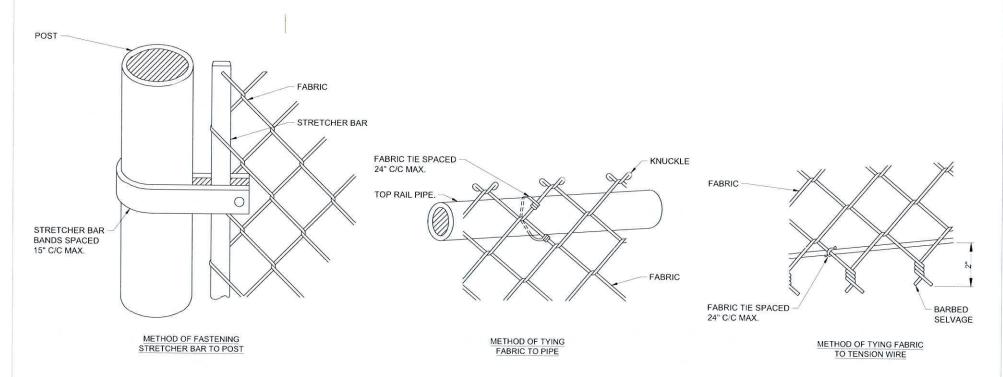
STRETCHER BARS - THE STRETCHER BARS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 5/16" x 3/4" AND NOT LESS THAN 2" SHORTER THAN THE FABRIC. STRETCHER BAR BANDS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THANK 5/16" x 1 1/2" WITH 5/16" DIAMETER GALVANIZED CARRIAGE

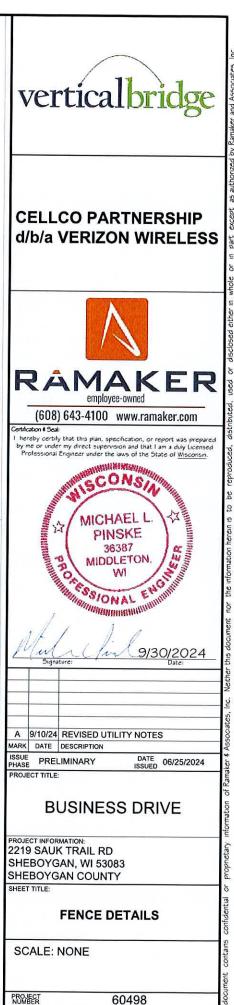
BARBED WIRE - BARBED WIRE OF GALVANIZED STEEL (OR ALUMINUM) CONSISTING OF 12 1/2 GAGE WIRE WITH 4-POINT BARBS OF 14 GAGE WIRE SPACED 5

GATE FRAMES SHALL BE CONSTRUCTED OF 2 1/2" OUTSIDE DIAMETER 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 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. GATE LATCH SHALL BE CARGO PROTECTORS, INC MODEL FL-100, LATCH SHALL BE EQUIPPED TO RECIEVE A PADLOCK

PROVIDE R.F. WARNING SIGNAGE ON ALL GATES.







SHEET

FABRIC / BAR CONNECTIONS SCALE: NTS

(O)

OF DOUBLE SWING GATE ALTERNATE FENCE STOPS ARE ACCEPTABLE, TO BE APPROVED BY TOWER OWNER CONSTRUCTION MANAGER GATE LATCH STRONG ARM DOUBLE GATE LATCH #DAC-4000 OR EQUAL GATE LATCH STRONG ARM DOUBLE GATE LATCH #DAC-4000 OR EQUAL 1000

GATE LATCH DETAIL

SCALE: NTS

NOT USED SCALE: 1" = NTS

(3)

- 1 5/8" DIA. GALVANIZED POST DUCKBILL GATE -HOLDBACK W/CAP CONTRACTOR TO MATCH GATE FRAME HEIGHT FINISH GRADE * INSTALL MAXIMUM OF 2'-0" FROM FACE OF CONTRACTOR TO COMPOUND FENCE SET POST IN CONCRETE MIN. OF 18" DEEP

GATE KEEPER DETAIL

SWING GATE GATE LATCH STRONG ARM DOUBLE GATE LATCH #DAC-4000 OR EQUAL ALTERNATE FENCE STOPS ARE ACCEPTABLE, TO BE APPROVED BY TOWER OWNER CONSTRUCTION MANAGER

OF DOUBLE

GATE LATCH DETAIL SCALE: NTS

verticalbridge CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS



SCONSIA MICHAEL L PINSKE 36387 MIDDLETON.

A 9/10/24 REVISED UTILITY NOTES

ARK DATE DESCRIPTION

ISSUE PRELIMINARY DATE ISSUED 06/25/2024

BUSINESS DRIVE

PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

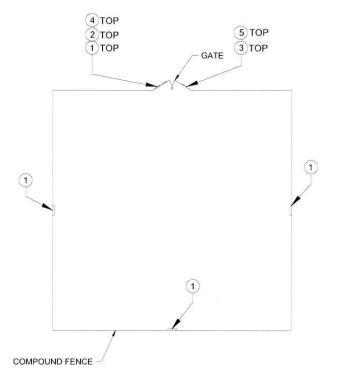
FENCE DETAILS

SCALE: NONE

PROJECT NUMBER 60498 SHEET C-6

SCALE: NTS

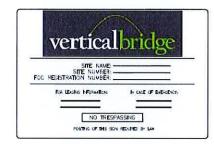
NOTE: SEE TYPICAL SIGNS AND SPECIFICATIONS DETAIL ON THIS SHEET FOR SIGN DESIGNATIONS.



NOTE: SEE TYPICAL SIGNS AND SPECIFICATIONS DETAIL ON THIS SHEET FOR SIGN DESIGNATIONS.

OVERALL SIGN PLACEMENT PLAN VIEW (1) SCALE: NTS





OWNER CONTACT SIGN WHITE BACKGROUND, BLACK/RED LETTERING MOUNTING LIDCATION GATE OLANTITY: Z

3 OWNER CONTACT SIGN



AUTHORIZED PERSONNEL SIGN WHITE/BLUE BACKGROUND, WHITE/BLACK LETTERING MOUNTING LOCATION: CATE & BASE OF TOWER OLDANITY. WHERE ACCESS GATE INSTALLED (GTY. 2)

2 AUTHORIZED PERSONAL SIGN



FCC REGISTRATION SIGN WHITE/GREEN BACKGROUND, WHITE/BLACK LETTERING MOUNTING LOCATION: GATE & BASE OF TOWER

5 FCC REGISTRATION SIGN



DANGER NO TRESPASSING SIGN WHITE/BLACK BACKGROUND, BLACK/WHITE LETTERING MOUNTING LOCATION; GATE & BASE OF TOWER GUANTER!

1 NO-TRESSPASSING SIGN

WHERE ACCESS GATE INSTALLED (QTY. 2)

BEYOND THIS POINT: AUTHORIZED PERSONNES ONLY

1 NOTICE RF SIGN (BLUE) WHITE/BLUE BACKGROUND, WHITE/BLACK LETTERING MOUNTING LOCATION: GATE & CENTERLINE OF FENCING AROUND SITE (GTY, 4) WHERE ACCESS GATE INSTALLED (GTY, b)

4 NOTICE RF SIGN (BLUE)



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PROJECT TITLE: DATE ISSUED 06/25/2024

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PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

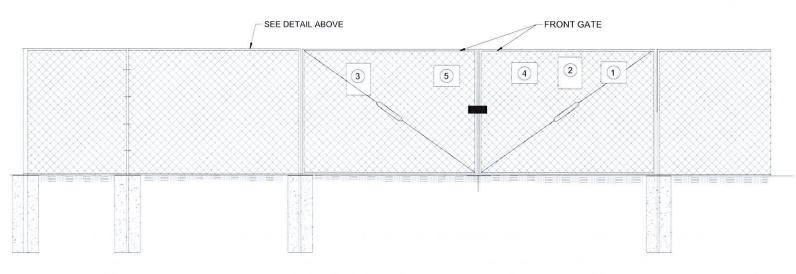
SITE SIGNAGE DETAILS

C-7

SCALE: NONE

PROJECT NUMBER 60498

TYPICAL SIGNS AND SPECIFICATIONS SCALE: NTS



SIGNAGE NOTES:

SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL, AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.

SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE, AND 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.

SITE SIGNAGE FRONT GATE VIEW

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SCONS MICHAEL PINSKE 36387 MIDDLETON.

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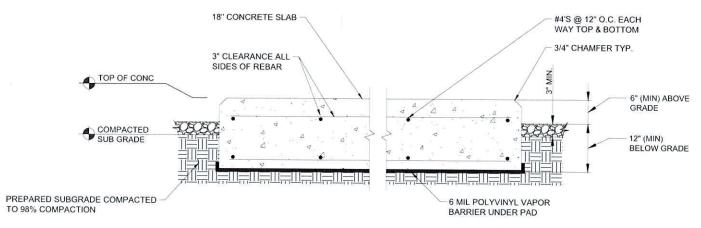
FOUNDATION DETAILS

SCALE: NONE

PROJECT NUMBER 60498 SHEET C-8

11'-0" PROPOSED REBAR PROPOSED CONCRETE T & B, SEE DETAIL 2 EQUIPMENT PAD

> **EQUIPMENT SLAB DETAIL** SCALE: NTS

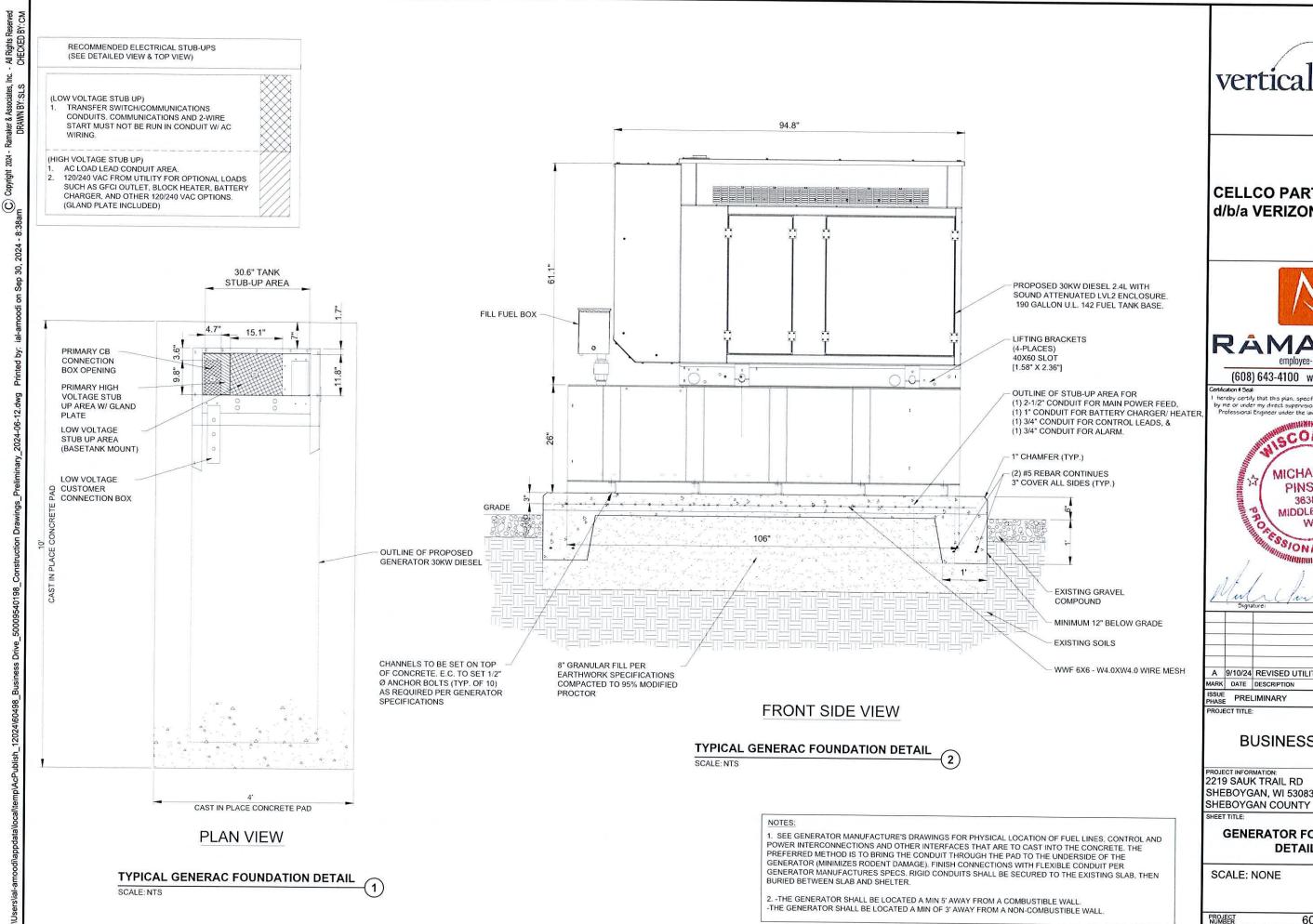


NOTES:

- SLAB TO BE LEVEL (±) 1/4". FOUNDATION SHALL HAVE A MINIMUM 6" PROJECTION ABOVE
- 4. CONCRETE STRENGTH SHALL BE A MINIMUM OF 4000 PSI @ 28
 - **EQUIPMENT PAD DETAIL**

SCALE: NTS







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9/30/2024

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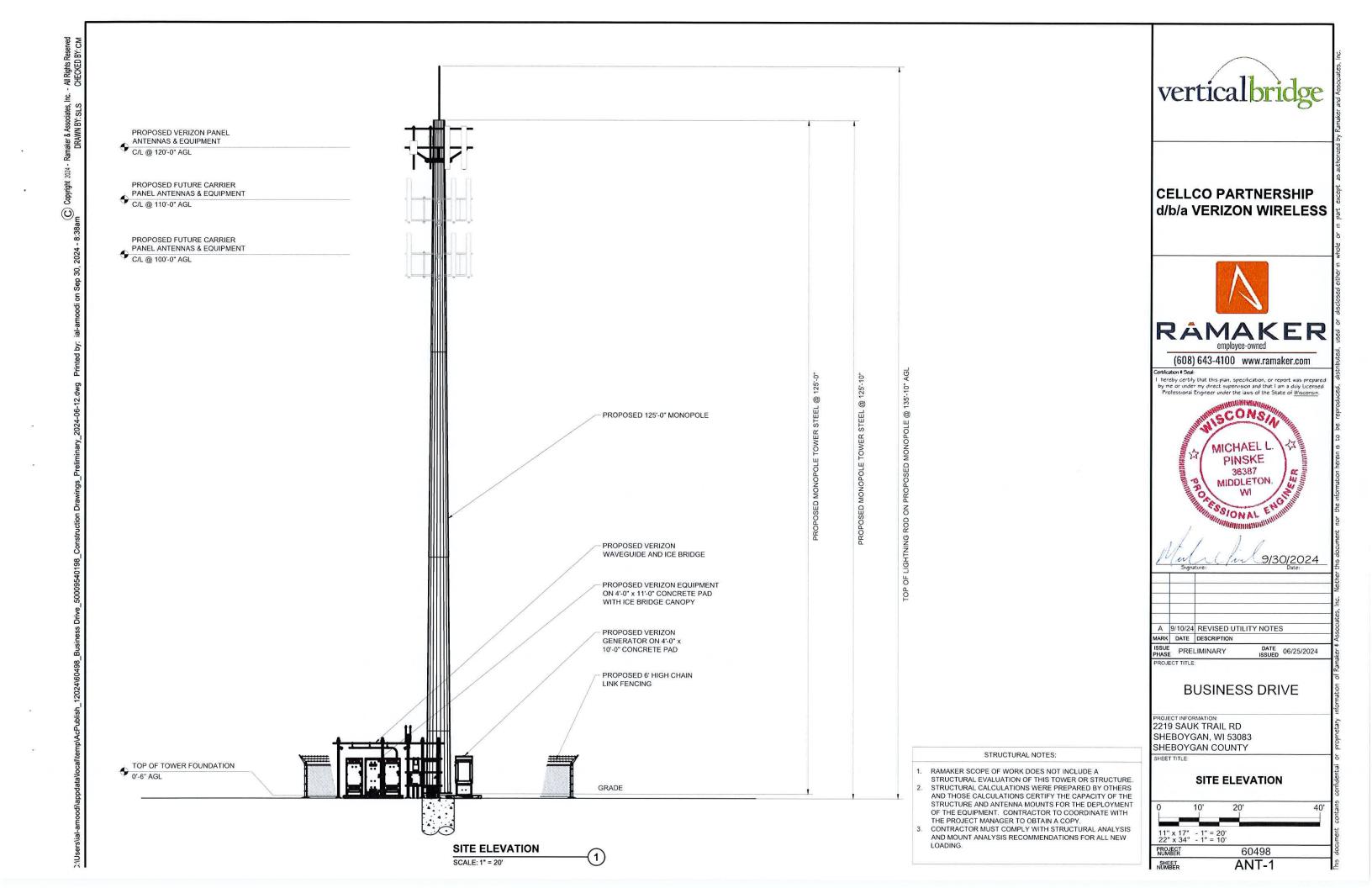
DATE ISSUED 06/25/2024

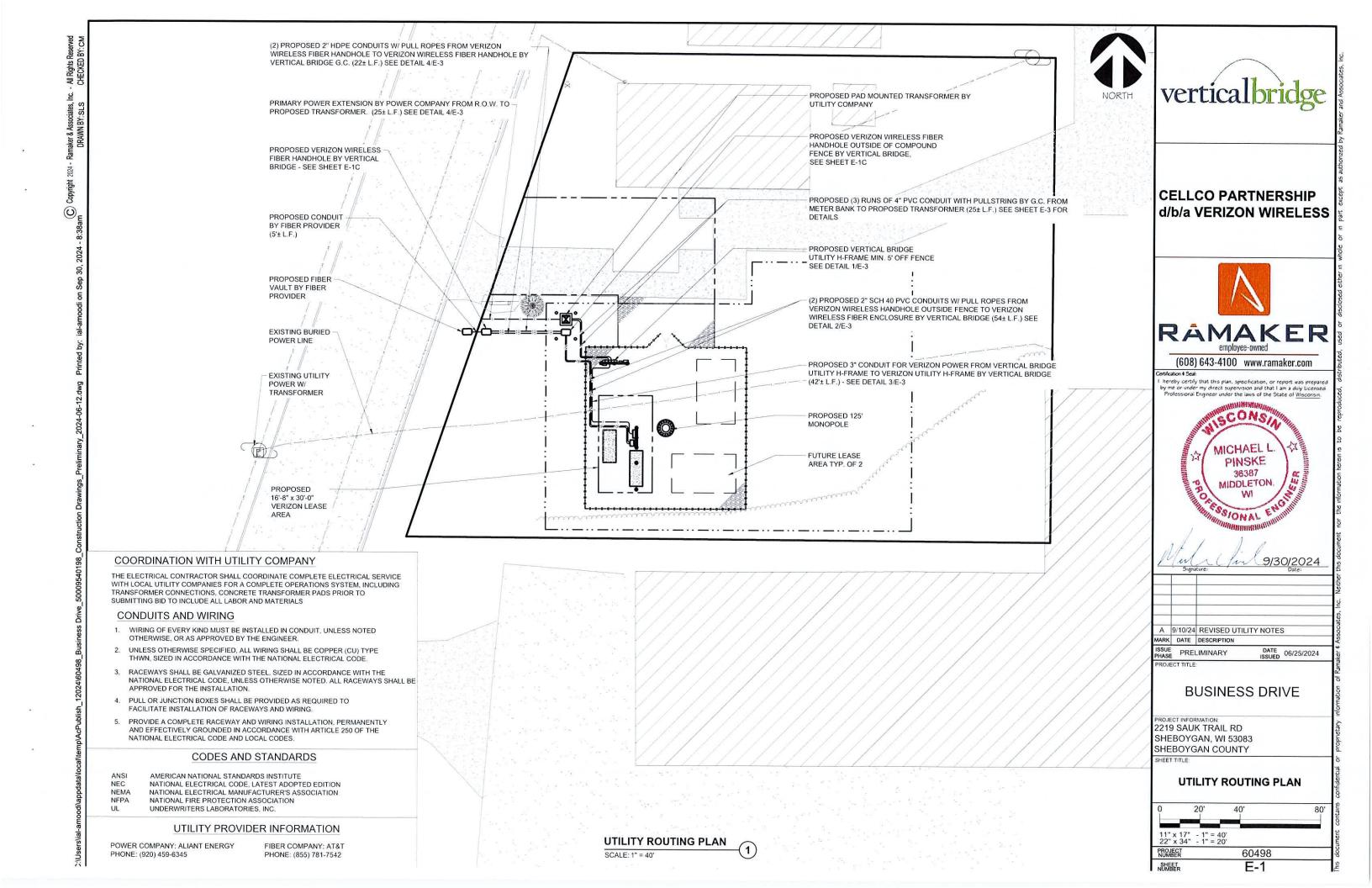
BUSINESS DRIVE

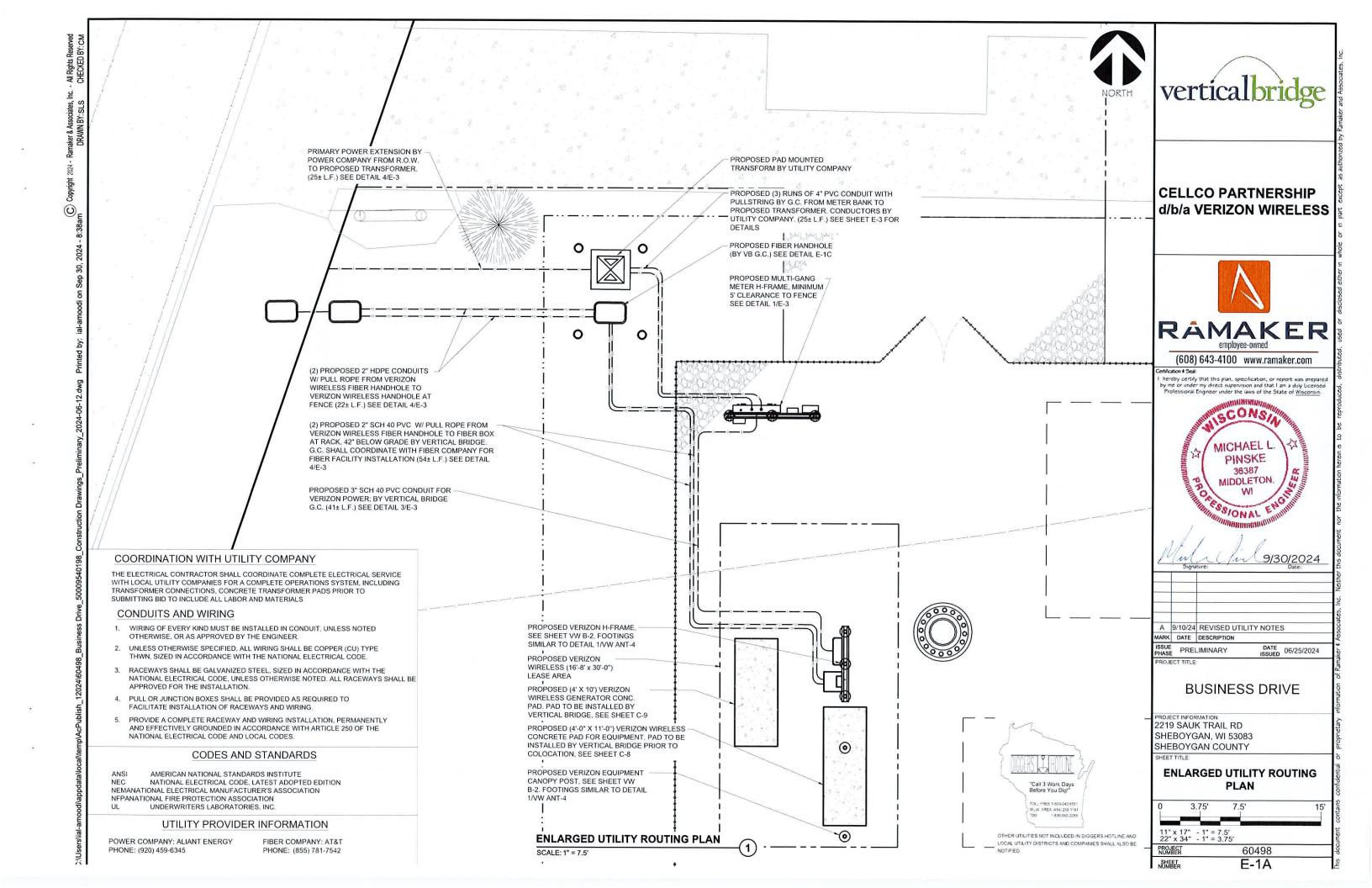
2219 SAUK TRAIL RD SHEBOYGAN, WI 53083

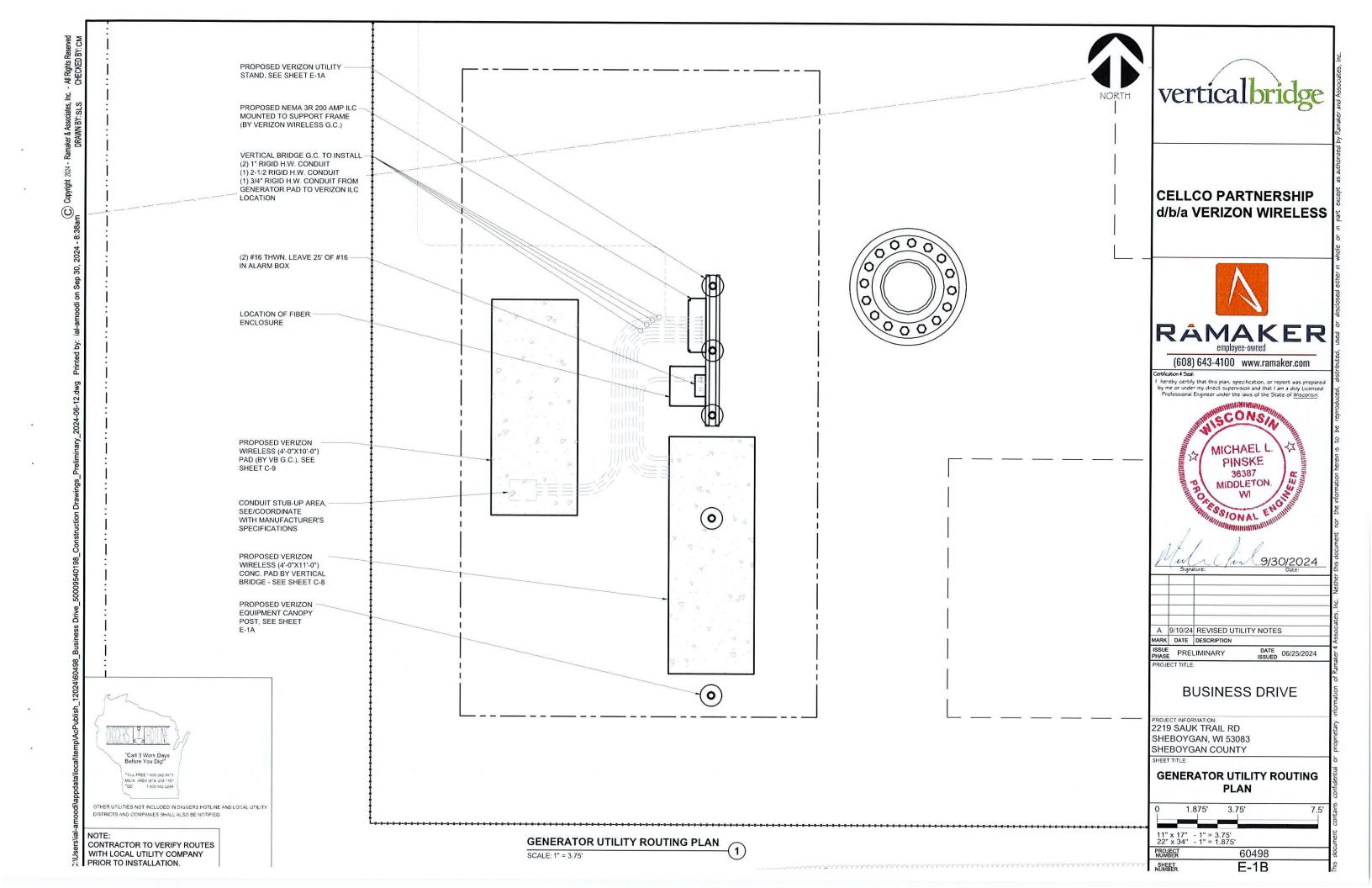
GENERATOR FOUNDATION DETAILS

PROJECT NUMBER 60498 C-9









(JL

17" x 30" BOX ASSEMBLY 12" to 30" DEPTHS



POLYMER CONCRETE ARMORCAST PRODUCTS COMPANY

A6001640 COVER LIFT PIN-STANDARD MARKING LISTED ARMORCAST LOGO FILE #E364252 POLYMER CONCRETE COVER WITH-NON-SKID SURFACE BOLT DOWN POLYMER CONCRETE BOX SPECIFY DEPTH SEE CHART BELOW

17"W x 30"L BOX ASSEMBLIES Specify Depth Below

DESCRIPTION	NOMINAL SIZE W x L x D	LOAD RATING	ANSI PART NUMBER		APPROX. WEIGHT	PALLET QTY.
Box & Cover	17" x 30" x 12"	10K	8	A6001640APCX12	114 lbs.	12
Assembly	17" x 30" x 12"	20K	15/22	A6001640TAPCX12 / A6001640HDAPCX12	140 lbs.	12
Box & Cover	17" x 30" x 18"	17" x 30" x 18" 10K 8 A		A6001640APCX18	140 lbs.	6
Assembly	17" x 30" x 18"	20K	15/22	A6001640TAPCX18 / A6001640HDAPCX18	166 lbs.	6
Box & Cover Assembly	17" x 30" x 22"	10K	8	A6001640APCX22	154 lbs.	6
	17" x 30" x 22"	20K	15/22	A6001640TAPCX22 / A6001640HDAPCX22	180 lbs.	6
Box & Cover Assembly	17" x 30" x 24"	10K	8	A6001640APCX24	165 lbs.	6
	17" x 30" x 24"	20K	15/22	A6001640TAPCX24 / A6001640HDAPCX24	190 lbs.	6
Box & Cover	17" x 30" x 28"	10K 25	- 8	A6001640APCX28	184 lbs,	3
Assembly	17" x 30" x 28"	20K	15/22	A6001640TAPCX28 / A6001640HDAPCX28	210 lbs.	3
Box & Cover	17" x 30" x 30"	10K	8	A6001640APCX30	191 lbs.	3
Assembly	17" x 30" x 30"	20K	15/22	A6001640TAPCX30 / A6001640HDAPCX30	221 lbs.	3

COMPONENTS

COMPONENTS				MORE COVER VARIATIONS ARE AVAILAB	NATIONS ARE AVAILABLE IN OUR "COVER SECTION				
DESCRIPTION	NOMINAL SIZE W x L x D	LOAD RATING	ANSI TIER	PART NUMBER	APPROX. WEIGHT	PALLET QTY.			
Replacement	17" x 30"	10K	8	A6001643	44 lbs.	30			
Covers	17" x 30"	20K	15/22	A6001947T / A6001947HD	70 lbs.	30			
Replacement Boxes	17" x 30" x 12"	10K / 20K	22	A6001640PCX12	70 lbs.	12			
	17" x 30" x 18"	10K / 20K	22	A6001640PCX18	96 lbs.	6			
	17" x 30" x 22"	10K / 20K	22	A6001640PCX22	110 lbs.	6			
	17" x 30" x 24"	10K / 20K	22	A6001640PCX24	121 lbs.	6			
	17" x 30" x 28"	10K / 20K	22	A6001640PCX28	140 lbs.	3			
	17" x 30" x 30"	10K / 20K	22	A6001640PCX30	151 lbs.	3			

- . Boxes are Open Bottom and Stackable, also available with Solid Bottoms.

THIS PRODUCT IS LISTED TO APPLICABLE UL

· For sizes not shown please contact Armorcast Products for more information. www.armorcastprod.com Tel: (818) 982-3600 Fax: (818) 982-7742



17" x 30" BOX ASSEMBLY STANDARD DIMENSIONS

ARMORCAST PRODUCTS COMPANY

FLOATING

NUT (2X)

 $\mathsf{B} \! \prec \!\!\! \leftarrow$

 $B \leftarrow$

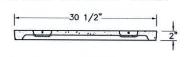
PLAN VIEW

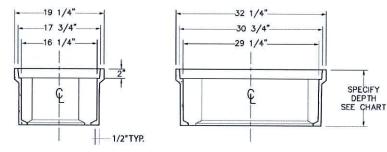
POLYMER CONCRETE A6001640



17 1/2" ____

POLYMER CONCRETE COVER





SECTION A-A

SECTION B-B

Armorcast Products Company reserves the right to update or discontinue product information at any time without notice.

THIS PRODUCT IS LISTED TO APPLICABLE UL STANDARDS AND REQUIRMENTS BY UL.

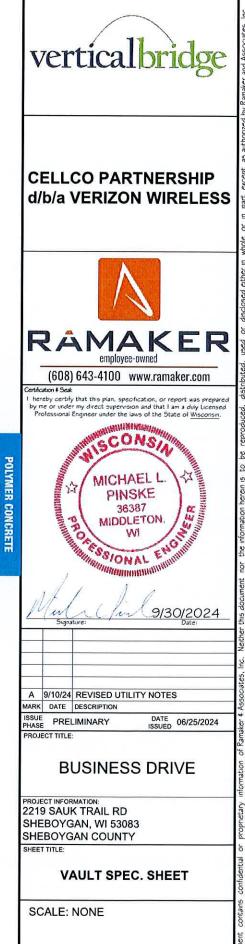
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PROJECT NUMBER 60498 E-1C

VAULT SPECIFICATIONS SCALE: NONE

(1)



THREE POINT SYSTEM RESISTANCE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH VERTICAL BRIDGE PERFORM THREE TESTS AT EACH SITE.

SYSTEM GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS. A

KEYED NOTES

DESCRIPTION

- CONTRACTOR SHALL PROVIDE A WRITTEN REPORT CONSISTING OF THE FOLLOWING: SITE NAME, ADDRESS AND IDENTIFICATION NUMBER, DESCRIPTION OF SITE SOIL AND MOISTURE CONDITION, DESCRIPTION OF WEATHER, MODEL NUMBER OF TESTING EQUIPMENT, DATE OF LAST CALIBRATION, SITE SKETCH SHOWING LOCATION OF TEST PROBES AND ALL FIELD DATA COLLECTED (READINGS, RANGE, TEST, MILLIAMPS, ETC.)
- C. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES PERFORMING SYSTEM RESISTANCE TESTS OR IF MEASUREMENTS ARE ABOVE 5 OHMS. THE CONSTRUCTION MANAGER SHALL PROVIDE INSTRUCTION TO THE CONTRACTOR TO INSTALL ADDITIONAL GROUNDING MEASURES TO MEET THE 5 OHM REQUIREMENT.
- PROPOSED TOWER GROUND RING BURIED TO A DEPTH OF 30" OR 6" (2) BELOW THE FROST LINE, WHICHEVER IS GREATER.
- BOND PROPOSED TOWER TO TOWER GROUND RING (3 PLACES
- 4 SERVICE ENTRANCE GROUND ROD.
- BOND GROUND RING(S) TO SITE CORNER POST (TYP. x 4).
- BOND GATE POST TO PROPOSED GROUND RING (TYP. x 2).
- BOND FLEXIBLE JUMPER TO GATE (TYP. x 2).
- (8) BOND PROPOSED H-FRAME TO GROUND RING (TYP. x 8).

EXTERIOR GROUNDING NOTES:

- GROUNDING SHALL CONFORM WITH VERTICAL BRIDGE STANDARDS AND PER FEDERAL, STATE AND LOCAL CODES. IN THE EVENT OF A CONFLICT, MEET THE MOST STRINGENT REQUIREMENT.
- GROUND RODS PAST METER SHALL BE COPPER CLAD STEEL 5/8 INCH DIAMETER X 10 FEET IN LENGTH (MIN.)
- ALL GROUND CONDUCTORS PAST METER SHALL BE #2 AWG SOLID BARE TINNED COPPER. MINIMUM BEND RADIUS FOR CONDUCTOR SHALL BE 8
- GROUND RODS SHALL BE SPACED NOT MORE THAN 16'-0" AND NOT LESS THAN 6'-0" APART EXCEPT FOR THE TOWER GROUND RING WHICH SHALL COMPLY WITH TIA/EIA 222 (REV G).
- CONTRACTOR SHALL ADD ADDITIONAL RODS AND CONDUCTORS OR APPROVED GROUND ENHANCING MATERIAL TO ACHIEVE LESS THAN 5 OHMS RESISTANCE TO GROUND.
- MAINTAIN 2'-0" (TOWER) AND 3'-0" (SHELTER) BETWEEN GROUND RINGS AND FOUNDATIONS.
- ALL GROUNDING INSTALLATIONS SHALL BE INSPECTED AND APPROVED BY ANY JURISDICTION HAVING INSPECTION & APPROVAL AUTHORITY (IF REQUIRED) AND VERTICAL BRIDGE BEFORE PLACING ANY BACKFILL.
- ALL GROUNDING SPLICES AND CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS (CADWELD OR EQUIVALENT). COAT ALL WELDS WITH A ZINC RICH PAINT.

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER

SYMBOLS LEGEND



GROUND ROD WITH ACCESS

VZW GROUND

MECHANICAL CONNECTION



EXOTHERMIC CONNECTION

LEAD

GROUND WIRE

GROUND BAR

OTHER UTILITIES NOT INCLUDED IN DIGGERS HOTLINE AND LOCAL UTILITY DISTRICTS AND COMPANIES SHALL ALSO BE NOTIFIED

"Call 3 Work Days Before You Dig!"

SEE GROUNDING

SHEETS E-3 & E-5

DETAILS ON

SITE GROUNDING PLAN SCALE: 1" = 7.5'





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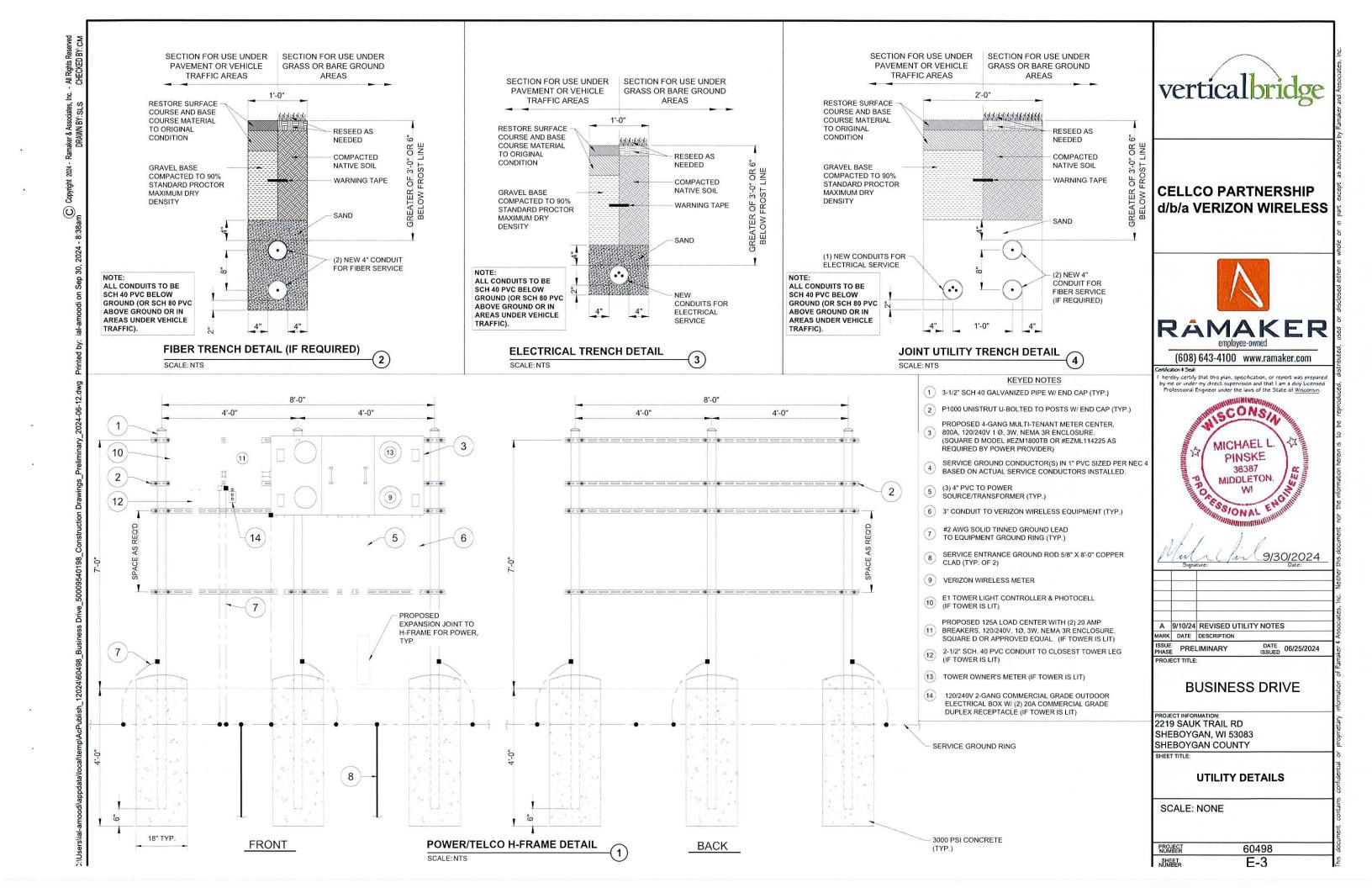
BUSINESS DRIVE

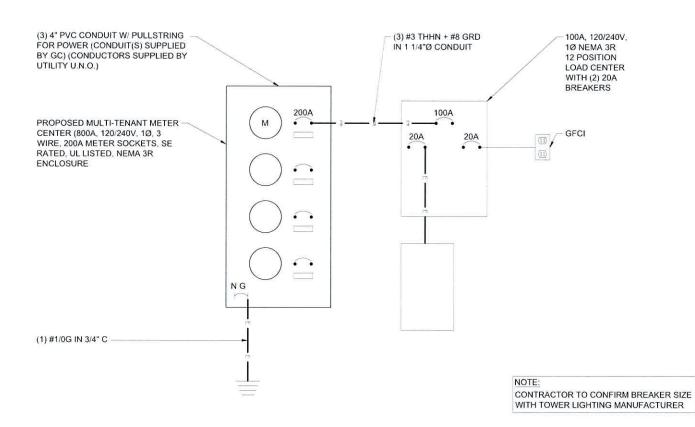
PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

SITE GROUNDING & NOTES

60498

(1)





SINGLE LINE DIAGRAM (POWER)

SCALE: NTS

NOTES AND SPECIFICATIONS

- ELECTRIC UTILITY WILL PROVIDE METER AND INCOMING SERVICE LATERAL CONDUCTORS. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC, STATE AND LOCAL CODES.
- 2. CONTRACTOR SHALL OBTAIN OWNER/TENANT EQUIPMENT DRAWINGS AND REVIEW FOR
- ADDITIONAL DETAILS AND REQUIREMENTS THAT MAY NOT BE SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL COMPLY WITH ANY ADDITIONAL OWNER/TENANT SPECIFICATIONS AND REQUIREMENTS THAT MAY BE ADDRESSED IN THE EQUIPMENT DRAWINGS.
- 4. PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE UTILITY SERVICE POINT. PROVIDE MAX AFC SIGNAGE AS REQUIRED PER ENC 110.24. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT. IN NO CASE SHALL THE FAULT CURRENT INTERRUPTING RATING BE LESS THAN 10,000 AMPS.
- THE GROUNDED SERVICE CONDUCTOR (NEUTRAL CONDUCTOR) SHALL BE GROUNDED AT THE SERVICE DISCONNECT ONLY
- ALL POWER CIRCUITS SHALL USE COPPER CONDUCTORS WITH THHN/THWN INSULATION. ALL TERMINATIONS SHALL BE RATED FOR AT LEAST 75°C.
- 7. CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES FOR ALL UTILITY RECEPTACLES.
- CONTRACTOR SHALL ENSURE ALL NEUTRAL CONDUCTORS HAVE WHITE INSULATION AND EQUIPMENT GROUND CONDUCTORS HAVE GREEN INSULATION. COLOR TAPE IDENTIFICATION OF THESE CONDUCTORS IS NOT ALLOWED.
- 9. PER NEC ARTICLE 702 PROVIDE SIGNAGE AS FOLLOWS:

AT SERVICE DISCONNECT:

WARNING - SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED



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hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>Wisconsin</u>.



A 9/10/24 REVISED UTILITY NOTES

MARK DATE DESCRIPTION

ISSUE PRELIMINARY DATE ISSUED 06/25/2024 PROJECT TITLE:

BUSINESS DRIVE

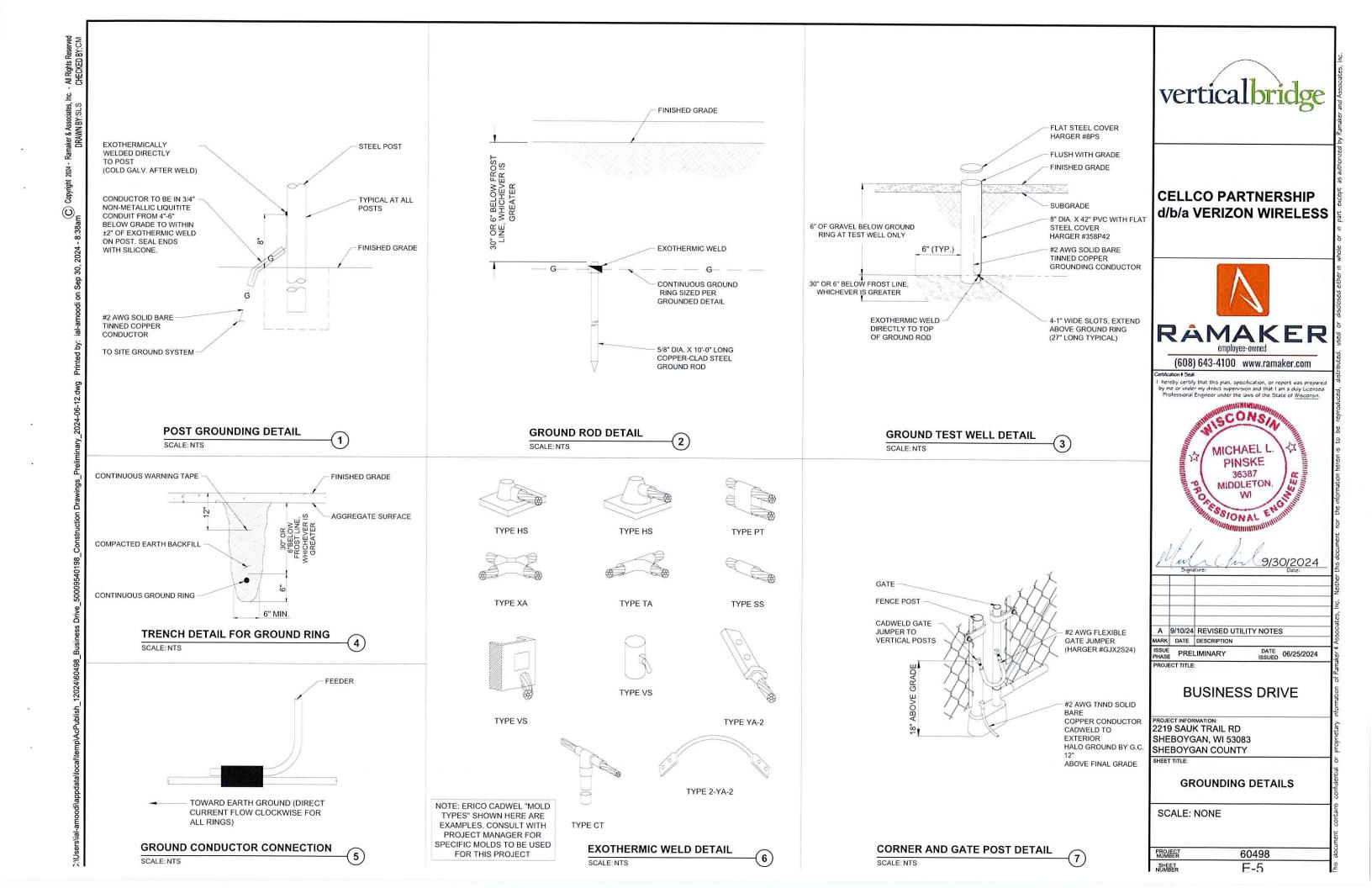
2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

SHEET TITLE:

SINGLE LINE DIAGRAM

SCALE: NONE

PROJECT NUMBER 60498 E-4



GENERAL PROJECT NOTES THE ENGINEER SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT ON

- THE CONTRACTOR SHALL TOPSOIL AND SEED ALL DISTURBED AREAS. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL
- THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE
- THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
- THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF THE STATE LICENSED LAND SURVEYOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE WORK WITH ALL CONTRACTS FOR THE
- ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE JURISDICTIONS STATE CODE AND OSHA REGULATIONS FOR CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK
- ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE ENGINEER AND THE UTILITY OWNER. NOTIFY THE ENGINEER AND THE UTILITY OWNER 24 HOURS BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE. MAINTAIN FLOW FOR ALL EXISTING UTILITIES
- ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- CONTRACTOR TO GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE COMPOUND AND THE TOWER.
- THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS-BUILT PLANS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES, AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADMISSIONS TO THE SATISFACTION OF THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED. AS-BUILTS SHALL INCLUDE ALL POWER, TELEPHONE, GROUNDING, ETC.
- TOWER FOOTING DIMENSIONS SHALL BE VERIFIED WITH THE TOWER MANUFACTURER AND THE TOWER PLANS.

GENERAL CONSTRUCTION NOTES

. GENERAL

- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK, HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE APPROVAL.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- PAINT ALL ANTENNAS, MOUNTING HARDWARE, CABLES, CABLE TRAYS, ETC. TO MATCH EXISTING STRUCTURE PER OWNER REQUIREMENTS. OWNER SHALL APPROVE COLOR. ALL DAMAGED, MARRED, SCRAPED, ABRADED, ETC. AREAS OF EXISTING PAINT SHALL BE
- REPAIRED PER OWNERS REQUIREMENTS. OWNER SHALL APPROVE COLOR.

2. EXCAVATIONS/FOUNDATION

- FOUNDATION EXCAVATION SHALL BE HAND-TRIMMED TO REMOVE LOOSE MATERIALS. EXTERIOR FOUNDATION SHALL BE HAND-I KIMIMED TO REMOVE LOGS.
- ALL STRUCTURAL BACKFILL AND SUBBASE UNDER SLABS-ON-GRADE AND FOOTINGS SHALL BE "SW" OR BETTER PER ASTM D-2487 COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY PER ASTM D 698.
- DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.
- SOIL BEARING SURFACES, PREVIOUSLY ACCEPTED BY GEOTECHNICAL ENGINEER, WHICH ARE ALLOWED TO BECOME SATURATED, FROZEN OR DISTURBED SHALL BE REWORKED TO SATISFACTION OF GEOTECHNICAL ENGINEER.
- DO NO ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
- G. FOOTING EXCAVATIONS SHALL BE CUT NEAT.

3. CONCRETE

DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 *SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"; MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.

- C. CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED (±1.5%) WITH A MAXIMUM 4" SLUMP, AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.
- MAXIMUM AGGREGATE SIZE SHALL BE 1".

THE FOLLOWING MATERIALS SHALL BE USED: PORTLAND CEMENT: ASTM C 150. TYPE I REINFORCEMENT: ASTM A 615,

GRADE 60 NORMAL WEIGHT AGGREGATE: ASTM C 33

DRINKARI F **ADMIXTURES** NON-CHLORIDE CONTAINING

- REINFORCING SHALL CONFORM TO ASTM A-615 WITH SUPPLEMENT. MINIMUM YIELD STRENGTH FY=60 KSI. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
- CONCRETE COVER AROUND REINFORCING BARS (U.N.O.) SHALL BE:
- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED EARTH
- CONCRETE EXPOSED TO EARTH, WEATHER SLABS
- ALL OTHER CONCRETE
- UNLESS INDICATED OTHERWISE ON THE DRAWINGS, REINFORCEMENT SPLICES SHALL MEET CLASS B, TENSION LAP REQUIREMENTS IN ACCORDANCE WITH ALL PROVISIONS OF ACI 318 LATEST EDITION,

- GENERAL CONSTRUCTION NOTES CONT.
 CURING COMPOUNDS SHALL CONFORM TO ASTM C-309.
- ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301 DO NOT WELD OR TACKWELD REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, PIPING WATERSTOPS, INSERTS, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE
- IN PLACE BEFORE START OF CONCRETE PLACEMENT. LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER, PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING, DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
- DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.

 DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
- FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.
- S. PROVIDE A STEEL TROWEL FINISH TO THE SLAB.

4. ANTENNA SUPPORT BRACKET NOTES (IF APPLICABLE)

- A. DESIGN RESPONSIBILITY OF ANTENNA MOUNTING BRACKETS AND POLES AND ALL COMPONENTS THERE OF AND ATTACHMENT THERE TO SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. MFR SHALL PROVIDE TO THE ENGINEER FOR APPROVAL, DRAWINGS DETAILING ALL COMPONENTS OF THE ASSEMBLY, INCLUDING CONNECTIONS, DESIGN LOADS, AND ALL OTHER PERTINENT DATA.
- BRACKETS SHALL BE DESIGNED TO SUPPORT CURRENT AND FUTURE PANEL ANTENNAS AND COAXIAL

5. STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

 STEEL ANGLES, BASE PLATES, BEARING PLATES AND MISC. FABRICATION SHALL BE MADE FROM STEEL

 STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN."

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 STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE AISC "SPECIFICA
- MEETING THE REQUIREMENTS OF ASTM-A36 WITH A MINIMUM YIELD STRESS OF 36 KSI. ALL STEEL TUBES AND PIPES SHALL BE A500 STEEL MINIMUM.
- ALL DINGS, SCRAPES, MARS, AND WELDS IN THE FINISHED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- ALL EXTERIOR STRUCTURAL STEEL SHALL BE, WHEN DELIVERED, HOT-DIP GALVANIZED ACCORDING TO ASTM A123, TOUCH-UP FIELD WELDS AND ABRADED AREAS W/2 COATS OF GALVANIZED PAINT, ZRC
- COLD GALVANIZING COMPOUND OR APPROVED EQUAL.
 DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED CONNECTIONS
- BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA, GALVANIZED ASTM A307 SAFETY NOTES:
- THE CONTRACTOR WILL ADHERE TO ALL SAFETY REGULATIONS, LOCAL, STATE AND FEDERAL.
- THE CONTRACTORS WILL CONDUCT DAILY SAFETY TAILGATE MEETINGS IN ADDITION TO WEEKLY SAFETY MEETINGS. THESE REPORTS WILL BE MADE AVAILABLE TO THE OWNER UPON REQUEST.
- ALL WORKERS & VISITORS TO THE SITE SHALL WEAR HARD HATS & ANY OTHER SAFETY EQUIPMENT REQUIRED BY THE WORK BEING PERFORMED ON THE SITE.

GENERAL GROUNDING NOTES:

- 1. ALL GROUND CABLE IN CONCRETE OR THROUGH WALL SHALL BE IN 3/4" PVC CONDUIT. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTOR SLEEVES.
- GROUND ALL EXPOSED METALLIC OBJECTS USING A TWO-HOLE NEMA DRILLED CONNECTOR SUCH AS THOMAS & BETTS #32207 OR APPROVED EQUAL.
- THE CONTRACTOR SHALL NOTIFY THE VERTICAL BRIDGE REPRESENTATIVE WHEN THE GROUND RING IS INSTALLED SO THAT THE REPRESENTATIVE CAN INSPECT GROUNDING BEFORE IT IS CONCEALED.
- ALL EXTERIOR GROUND CONDUCTORS INCLUDED GROUND RING SHALL BE #2 AWG SOLID BARE TINNED COPPER, MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE, AVOID SHARP BENDS. THE RADIUS OF ANY BEND SHALL NOT BE LESS THAN 8" AND THE INCLUSIVE ANGLE OF ANY BEND SHALL NOT EXCEED 90". GROUNDING CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD THE BURIED
- ALL BELOW GROUND EXTERNAL CONNECTIONS SHALL BE EXOTHERMICALLY WELDED. ALL EXOTHERMIC WELDS TO BURIED GROUND RING SHALL BE THE PARALLEL, EXCEPT FOR THE GROUND RODS WHICH ARE TEE-TYPE EXOTHERMIC WELDS. REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY EXOTHERMIC WELDING, USE SPRAY GALVANIZED SUCH AS HOLUB LECTROSOL #15-501.

- 6. WHERE MECHANICAL CONNECTORS (TWO-HOLE OR CLAMP) ARE USED, APPLY A LIBERAL PROTECTIVE COATING OF A CONDUCTIVE ANTI-OXIDE COMPOUND ON ALL CONNECTORS, PROVIDE LOCK WASHERS ON ALL MECHANICAL CONNECTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT. THOROUGHLY REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTORS, REPAINT TO MATCH EXISTING AFTER CONNECTION IS MADE TO MAINTAIN CORROSION RESISTANCE ALL GROUND CONNECTIONS SHALL BE APPROVED FOR THE TYPES OF METALS BEING ATTACHED TO.
- THE CONTRACTOR SHALL COORDINATE AS REQUIRED TO HAVE UTILITY COMPANY verticalbridge REPRESENTATIVE AT THE SITE TO DISCONNECT THE UTILITY NEUTRAL FROM GROUNDING SYSTEM DURING FINAL INSPECTION SO THAT REQUIRED TESTING ON THE GROUND SYSTEM CAN BE PERFORMED. THE CONTRACTOR SHALL PROVIDE NOTICE TO THE VERTICAL BRIDGE REPRESENTATIVE (TWO) DAYS PRIOR TO FINAL TESTING. IF TH CONTRACTOR SHALL PAY THE COST FOR AN INDEPENDENT GROUNDING CONSULTANT TO PERFORM THE GROUND RESISTANCE TEST. GROUNDING CONSULTANT SHALL BE SELECTED BY THE VERTICAL BRIDGE REPRESENTATIVE. IF THE UTILITY COMPANY REPRESENTATIVE FAILS TO APPEAR DUE TO NO FAULT THE CONTRACTOR, NO
- ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
- THE GROUND CONDUCTORS SHALL BE RUN STRAIGHT FOR MINIMUM INDUCTANCE AND VOLTAGE DROP, SINCE CABLE BENDS INCREASE INDUCTANCE, THE MINIMUM REQUIRED BENDING RADIUS IS 8 INCHES WHEN BENDS ARE UNAVOIDABLE. ALL METAL WORK WITHIN 10 FEET OF THE GROUND RING SHALL BE DIRECTLY BONDED TO THIS GROUND SYSTEM, WITHOUT USING SERIES OR DAISY CHAIN CONNECTION ARRANGEMENTS.
- PAINT, ENAMEL LACQUER AND OTHER ELECTRICALLY NON-CONDUCTIVE COATING SHALL BE REMOVED FROM THREADS AND SURFACE AREAS WHERE CONNECTIONS ARI MADE TO ENSURE GOOD ELECTRICAL CONTINUITY.
- 11. CONNECTIONS BETWEEN DISSIMILAR METALS SHALL NOT BE MADE UNLESS THE CONDUCTORS ARE SEPARATED BY A SUITABLE MATERIAL THAT IS A PART OF THE ATTACHMENT DEVICE LISTED AND APPROVED FOR USE WITH THE SPECIFIC DISSIMILAR METALS MAY BE USED FOR THE PURPOSE. 12. ALL BELOW GRADE GROUND SYSTEM CONDUCTORS SHALL BE A MINIMUM DEPTH OF
- 30" (OR 6" BELOW THE FROST LINE, WHICHEVER IS GREATER).
- CONTRACTOR TO COORDINATE WITH TOWER CONTRACTOR TO PROVIDE, RUN AND TERMINATE POWER & CONTROL WIRES WITHIN CONDUITS FROM LIGHTENING CONTROLLER TO ELECTRICAL AND CONTROL PANELS.
- . INTERMEDIATE COAX, GROUNDING TO BE INSTALLED ON VERTICAL RUNS THAT EXCEED 200 FEET IN LENGTH. CONTRACTOR SHALL COORDINATE WITH VERTICAL CONSTRUCTION MANAGER ON LOCATION OF INTERMEDIATE GROUNDING LOCATION. GENERAL NOTES
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANY OR OTHER PUBLIC
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
- THE SCOPE OF WORK FOR THIS PROJECT S-IALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
- TRANSMITTER EQUIPMENT AND ANTENNAS ARE DESIGNED TO MEET ANSI/EIA/TIA 222-G ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL
- CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
- 11. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE THEM AND CONTACT THE APPLICANT AND
- OWNER'S REPRESENTATIVE. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIAN APPROXIMATELY TWICE A MONTH.
- PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT OR MODIFICATION TO THE EXISTING STRUCTURE, A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT TO CERTIFY THAT THE EXISTING/PROPOSED COMMUNICATION STRUCTURE AND COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND OTHER APPURTENANCES
- PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORM WATER RUNOFF, THEREFORE NO DRAINAGE STRUCTURES ARE PROPOSED NO SIGNIFICANT NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY.
- THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED) 19. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY
- 20. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.

APPLICABLE CODES AND STANDARDS

- 1. ANSI/TIA-222-H-1: STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES, LATEST EDITION 2. ANSI/TIA-322-2016: LOADING, ANALYSIS, DESIGN, INSTALLATION, ALTERATION AND MAINTENANCE OF COMMUNICATION STRUCTURES, LATEST EDITION
- 3. ANSI/TIA-222 STRUCTURAL-H-1: STRUCTURAL STANDARD, LATEST EDITION 4. 2015 IBC: INTERNATIONAL BUILDING CODE 5. 2015 IBC: INTERNATIONAL MECHANICAL CODE
- 6. NFPA 70, NATIONAL ELECTRICAL CODE (2017 NEC)
- 7. NFPA 780, LIGHTNING PROTECTION CODE (2017 NEC)

- 8. 2015 IBC: INTERNATIONAL FUEL GAS CODE 9. 2015 IFC: FIRE CODE

- 10. ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (2014 ACI)
 11. GRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION
 12. AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION 13. AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION

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hereby certify that this plan, specification, hereby certify that this plan, specification, or report was proposed by me or under my direct supervision and that I am a duly Licenser. Professional Engineer under the laws of the State of <u>Misconsin</u>.



9/30/2024 Date:

A 9/10/24 REVISED UTILITY NOTES ARK DATE DESCRIPTION

BUSINESS DRIVE

ROJECT INFORMATION 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY SHEET TITLE:

PRELIMINARY

GENERAL & GROUNDING NOTES

SUF

ROJECT TITLE

DATE SSUED 06/25/2024

PROJECT

SCALE: NONE

60498





EXISTING ACCESS DRIVE -(2)SCALE: NTS



EXISTING POWER POLE / TRANSFORMER 3



EXISTING FIBER PEDESTAL SCALE: NTS



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9/30/2024

A 9/10/24 REVISED UTILITY NOTES MARK DATE DESCRIPTION

ISSUE PRELIMINARY

DATE 06/25/2024

BUSINESS DRIVE

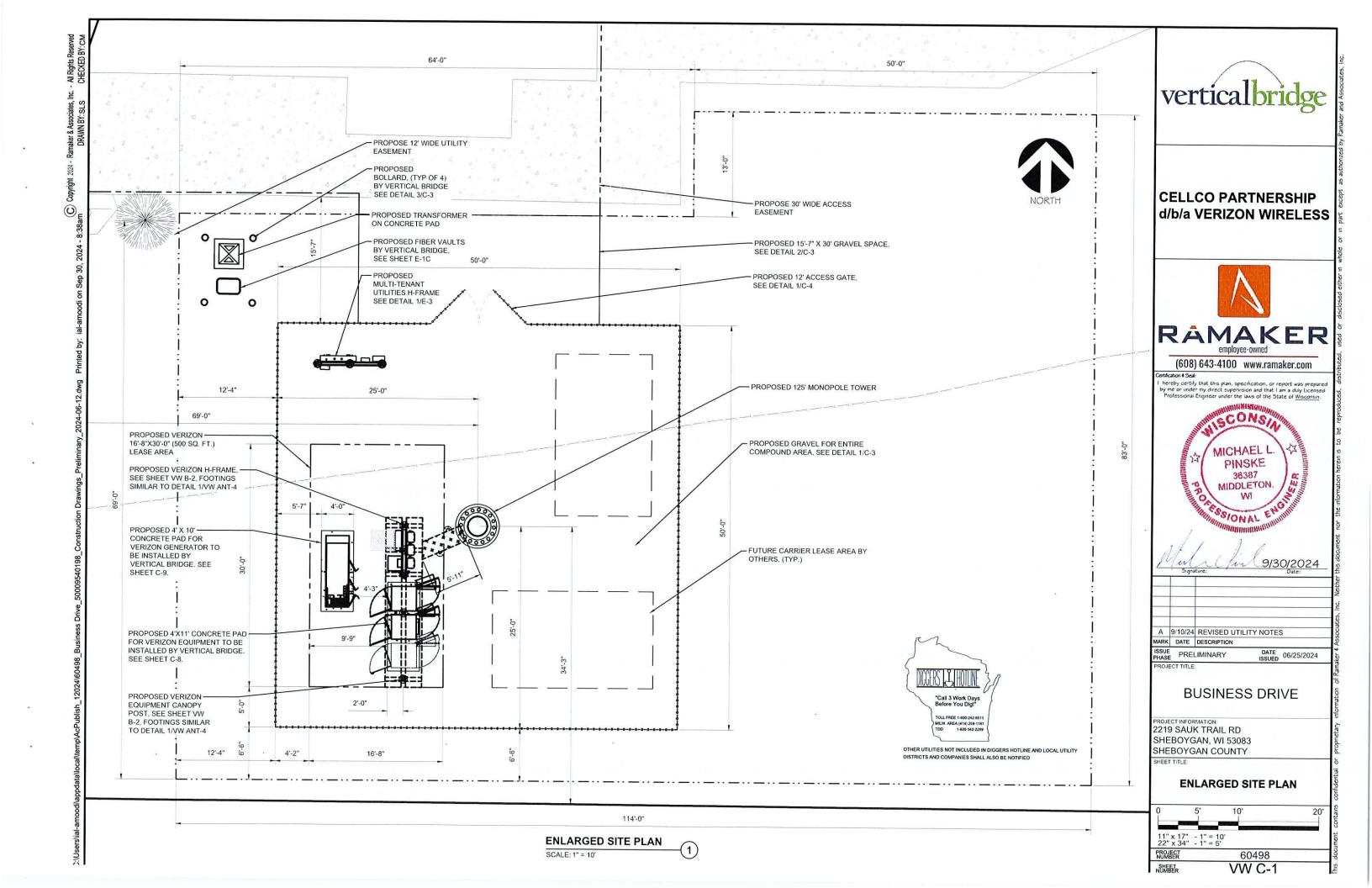
PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

EXISTING SITE PHOTOS

SCALE: NONE

PROJECT NUMBER

60498



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SITE WORK GENERAL NOTES:

- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION
 B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION
- 7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE
- 8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- 12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- ALL REMOVED SPOILS TO BE UTILIZED FOR BACKFILL SHALL BE PROTECTED FROM FREEZE

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"Ø)
 CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS
 NOTED OTHERWISE.
- 4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- 5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301,
 ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND
 CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH......3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER2 IN.
#5 AND SMALLER & WWF1 1/2 IN.

- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4 2 4
- 6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES ON CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.
- COLD WEATHER CONCRETING (BELOW 40°). SHALL COMPLY WITH ACI 301. CONTRACTOR SHALL NEVER PLACE CONCRETE ON FROZEN SUBGRADE AND REBAR TEMPERATURE SHALL NEVER BE BELLOW 32°F DURING CONCRETE PLACEMENT. STEEL TEMPERATURE CAN BE RAISED BY BATHING IT IN WATER UNTIL ICE DOES NOT FORM ON BARS. CONCRETE MATERIALS MAY BE HEATED, BUT MIX TEMPERATURE SHALL BE BETWEEN 50°F & 70°F AT TIME OF PLACING. ALL CONCRETE EXPOSED TO FREEZING DURING PLACEMENT OR DURING SERVICE LIFE SHALL BE AIR ENTRAINED. INSULATED BLANKETS (OR APPROVED EQUAL METHOD) SHALL BE PLACED OVER FRESHLY FINISHED CONCRETE TO ALLOW PROPER CURING/COMBAT FREEZING. THE CONCRETE TEMP. SHOULD BE MAINTAINED AT 50°F FOR FIVE (5) DAYS OR 70° FOR THREE (3) DAYS, CONCRETE SHALL NOT BE ALLOWED TO FREEZE BEFORE IT HAS REACHED A STRENGTH OF AT LEAST 500 PSI

GENERAL NOTES

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR - TO BE DETERMINED SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) OWNER - CENTRAL STATES TOWERS OEM - ORIGINAL EQUIPMENT MANUFACTURE
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
 UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT,
- APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- 11. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- 12. CONSTRUCTION SHALL COMPLY WITH "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF CINGULAR GSM SITES."

APPLICABLE BUILDING CODES AND STANDARDS:

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

2003 INTERNATIONAL BUILDING CODE (2003 IBC OR LATEST EDITION) 2008 NATIONAL ELECTRICAL CODE (NEC 2008)

UNDERWRITER LABORATORIES APPROVED ELECTRICAL PRODUCTS LIFE SAFETY CODE NFPA-101 SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING

AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD.

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) EIA-222-G, EXPOSURE CATEGORY C, STRUCTURE CLASS II, TOPO CATEGORY 1. STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES.

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONICS IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND HIGH SYSTEM EXPOSURE")

TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN GENERAL REQUIREMENTS AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.



CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS



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Mul (fin 9/30/2024
Signature: Date:

A 9/10/24 REVISED UTILITY NOTES
MARK DATE DESCRIPTION

ISSUE PRELIMINARY
PROJECT TITLE:

BUSINESS DRIVE

DATE ISSUED 06/25/2024

PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

SHEET TITLE:

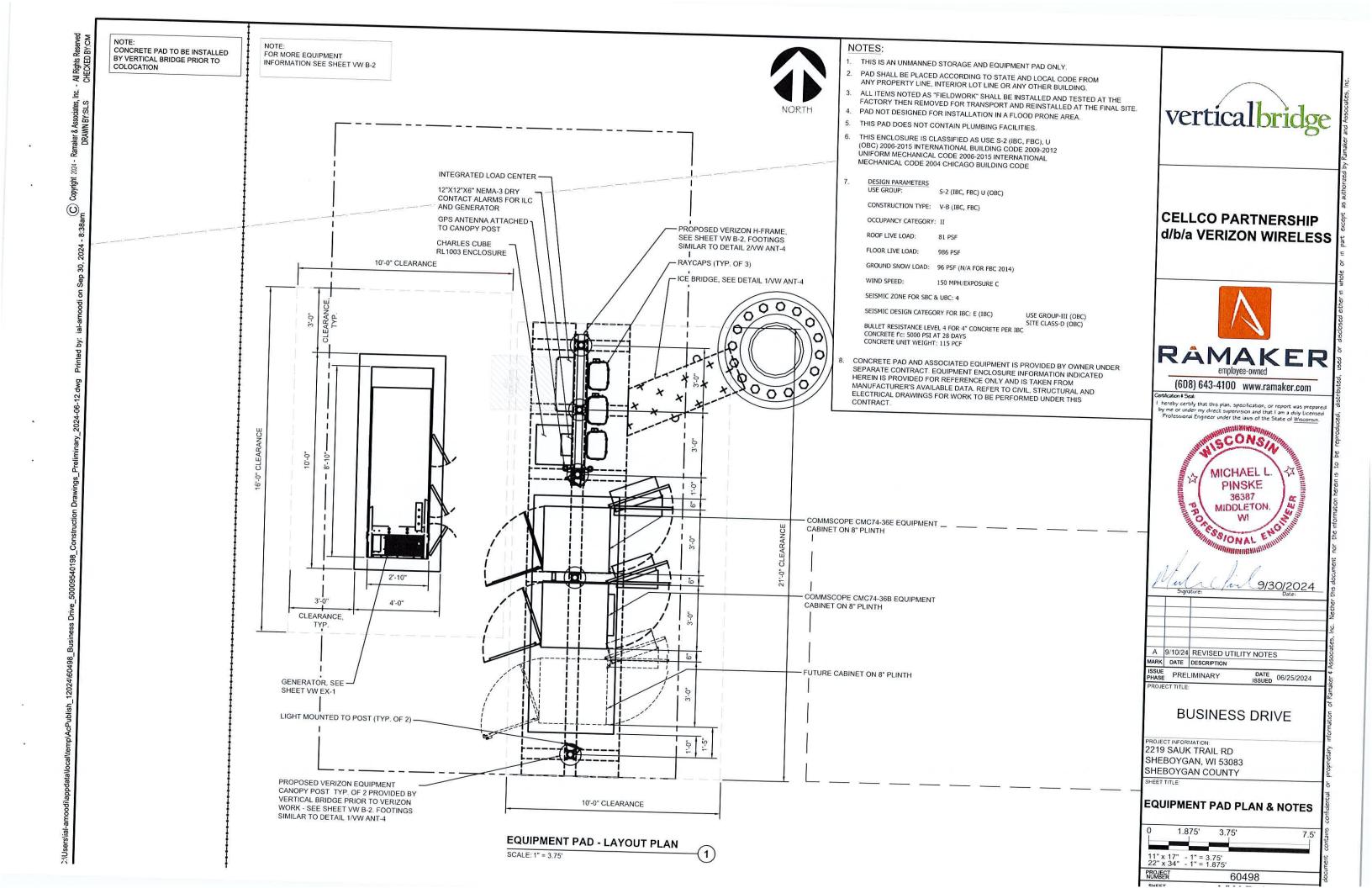
GENERAL NOTES

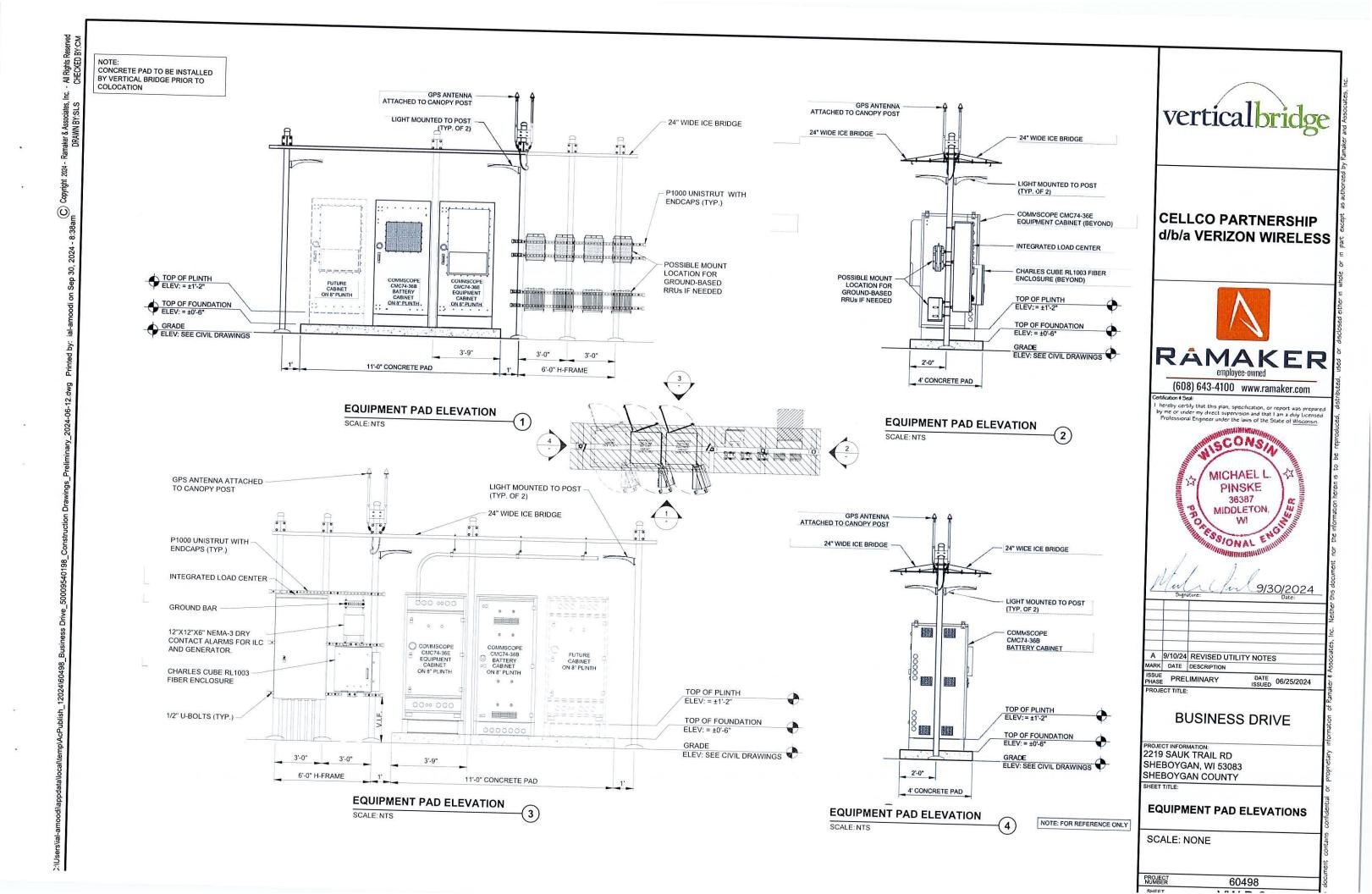
SCALE: NONE

PROJECT NUMBER

VW C-2

60498





G.C. TO ADJUST HEIGHT OF MOUNT BY ±6" AS NEEDED TO AVOID CLIMBING FACILITIES. G.C. IS NOT TO REMOVE OR DAMAGE CLIMBING FACILITIES DURING INSTALLATION.

STRUCTURAL NOTES:

- RAMAKER SCOPE OF WORK DOES NOT INCLUDE A STRUCTURAL EVALUATION OF THIS TOWER OR STRUCTURE. STRUCTURAL CALCULATIONS WERE PREPARED BY OTHERS AND THOSE CALCULATIONS CERTIFY THE CAPACITY OF THE STRUCTURE AND ANTENNA MOUNTS FOR THE DEPLOYMENT OF THE EQUIPMENT. CONTRACTOR TO COORDINATE WITH THE PROJECT MANAGER TO OBTAIN A COPY.
- CONTRACTOR MUST COMPLY WITH STRUCTURAL ANALYSIS AND MOUNT ANALYSIS RECOMMENDATIONS FOR ALL NEW LOADING.



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BUSINESS DRIVE

2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

SITE ELEVATION

SCALE: AS NOTED

PROJECT NUMBER 60498 SHEET VW ANT-1

PROPOSED ANTENNA LAYOUT

NEW VERIZON RRU ALPHA SECTOR ERICSSON - 4890 CENTERLINE = 120'-0" (3 TOTAL, 1 PER SECTOR) AZIMUTH = 0° SEE DETAIL 4/VW ANT-3A NEW VERIZON ANTENNAS NEW VERIZON ANTENNAS COMMSCOPE - NHH-65B-R2B ERICSSON - AIR6419 (6 TOTAL, 2 PER SECTOR) (3 TOTAL, 1 PER SECTOR) SEE DETAIL 1/VW ANT-3A SEE DETAIL 2/VW ANT-3A **NEW VERIZON RRU** NEW VERIZON OVP BOX RAYCAP - RVZDC-3315-PF-48 (3 TOTAL, 1 PER SECTOR) SEE DETAIL 1/VW ANT-3

ERICSSON - 4490 (3 TOTAL, 1 PER SECTOR) SEE DETAIL 3/VW ANT-3A

(9)

PROPOSED 125' MONOPOLE

GAMMA SECTOR CENTERLINE = 120'-0" AZIMUTH = 240°

G-2

SITE PRO 1 - RMQP-4096-HK (3 TOTAL, 1 PER SECTOR) SEE SHEET VW ANT-3B

NEW VERIZON 12'-6" PLATFORM

BETA SECTOR

CENTERLINE = 120'-0"

AZIMUTH = 120°

SCALE: 1" = 5'

Added

Added 700 1900 AWS Make **Atoll Model Item Description** Tip Height Centerline Azimuth Inst. Type Quantity Item ID 0(1) AIR6419 Ericsson 120 121.2 120(2) PHYSICAL 3 240(3) HEX PORT, 0(1) LTE LTE LTE COMMSCOPE NHH-65B-R2B AWS/PCS/700/850, 6 120 123 120(2) PHYSICAL 6 1900056292 FT, 65 HBW, 240(3) Removed 700 1900 AWS Make **Atoll Model Item Description** Centerline Tip Height Azimuth Inst. Type Quantity Item ID No data available. Retained 700 1900 AWS Make **Atoll Model Item Description** Centerline Tip Height Azimuth Inst. Type Quantity Item ID No data available.

> **ANTENNA SUMMARY** SCALE: NTS

1

Equipment Type	Location	700	1900	AWS	Make	Atoli Model	Item Description	Cable Length	Cable Size	Install Type	Quantity	Item ID
RRU	Tower				ERICSSON INC	AIR6419_B77D	AIR 6419 B77D Radio Unit			PHYSICAL	o	1900483699
RRU	Tower		LTE	LTE	ERICSSON INC	4890	DB Radio 4890HP B2+B66- Rem Radio Unit			PHYSICAL	3	1900483775
RRU	Tower	LTE			ERICSSONINC	4490	DB Radio 4490HP B5+B13- Rem Radio Unit			PHYSICAL	3	1900483084
Hybrid Cable	Tower				COMMSCOPET- 001	HFT1206-24SV4-xxxG			1-5/8 inch	PHYSICAL	3	
Alarm	Tower				RAYCAPINC-001	3315-ALM-RS485	RETROFIT FOR THE 60VP DIST BOX			PHYSICAL	3	00000001900070
OVP Box	Tower				RAYCAPINC-001	RVZDC-3315-PF-48	TOWER TOP AND BASE POWER PROTECTION FIBE			PHYSICAL	3	000000001900422
Removed												
Equipment Type	Location	700	1900	AWS	Make	Atoli Model	Item Description	Cable Length	Cable Size	Install Type	Quantity	Item ID
							No da	ta available.				
Retained												
Equipment Type	Location	700	1900	AWS	Make	Atoli Model	Item Description	Cable Length	Cable Size	Install Type	Quantity	Item ID
							EQUIPMENT SU	JMMARY				



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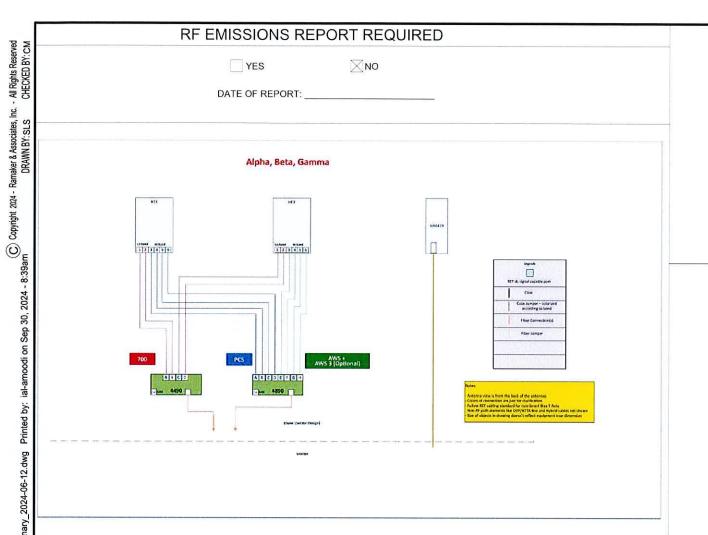
PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

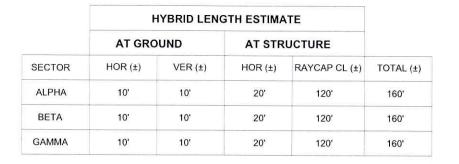
ANTENNA INFORMATION

SCALE: NONE

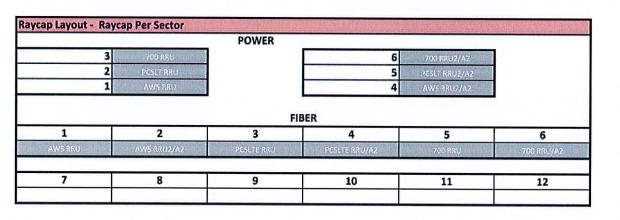
PROJECT NUMBER 60498

SHEET VW ANT-2



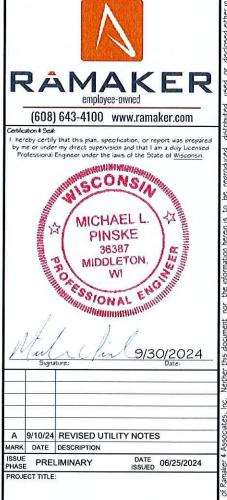


NOTE TO RF, G.C. & IMPLEMENTATION: RAYCAP CHART IS CURRENTLY BEING UPDATED BY VERIZON WIRELESS. PRIOR TO FINAL AND CONSTRUCTION, CHART TO BE INSERTED. GC TO NOTIFY VERIZON WIRELESS IF THIS NOTE IS STILL ON THE DRAWINGS PRIOR TO CONSTRUCTION.





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BUSINESS DRIVE

PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

ANTENNA INFORMATION

SCALE: NONE

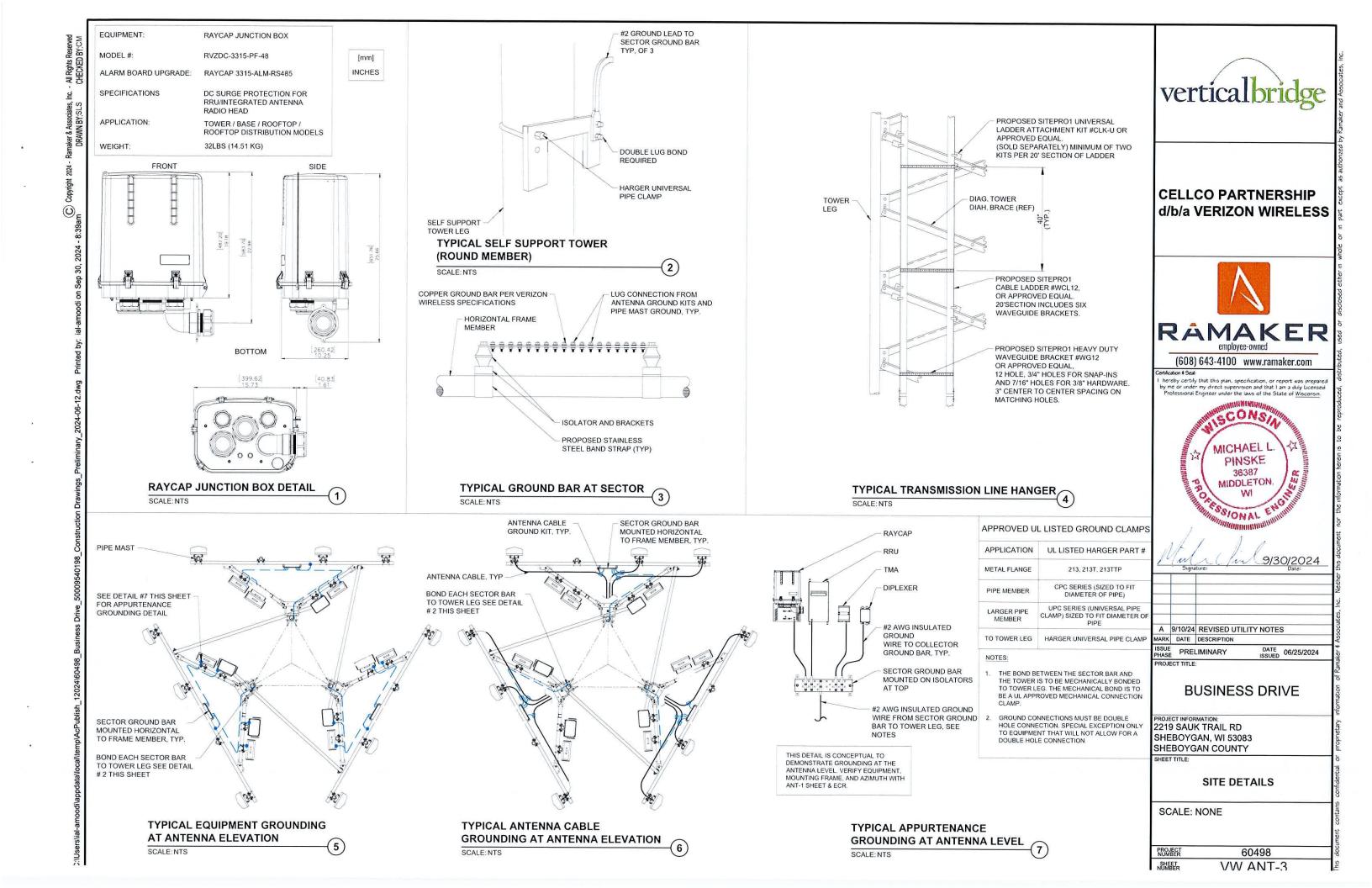
PROJECT NUMBER 60498 SHEET VW ANT-2A

CABLE DIAGRAM SCALE: NTS

RAYCAP TABLE

SCALE: NTS

-(2)



COMMSCOPE NHH-65B-R2B DIMENSIONS (HXWXD): 96"X11.9"X7.10" WEIGHT (LBS): 51.6.0

COMMSCOPE ANTENNA DETAIL

SCALE: NTS



DIMENSIONS (HXWXD): 31.3" X 16.1" X 9.8" WEIGHT (LBS): 71.0

ERICSSON ANTENNA DETAIL

SCALE: NTS



ERICSSON RRUS 4490HP 44B5 44B13 C

DIMENSIONS, HXWXD:

20.6" X 15.7" X 7.0"

WEIGHT, WITHOUT MOUNTING KIT:

~68.4 LBS (~31 KG)

ERICSSON 4490 RRU DETAIL

SCALE: NTS

-(3)



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9/30/2024

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PROJECT TITLE:

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PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

ANTENNA INFORMATION

SCALE: NONE

60498

NOT USED SCALE: NTS



ERICSSON RRUS 4890HP 48B2 48B66 S

DIMENSIONS, HXWXD:

20.6" X 15.7" X 7.2"

WEIGHT, WITHOUT MOUNTING KIT:

~69.5 LBS (~31.5 KG)

ERICSSON 4890 RRU DETAIL

SCALE: NTS

NOT USED SCALE: NTS

-(5)

-(2)

(6)

PROJECT NUMBER SHEET VW ANT-3A

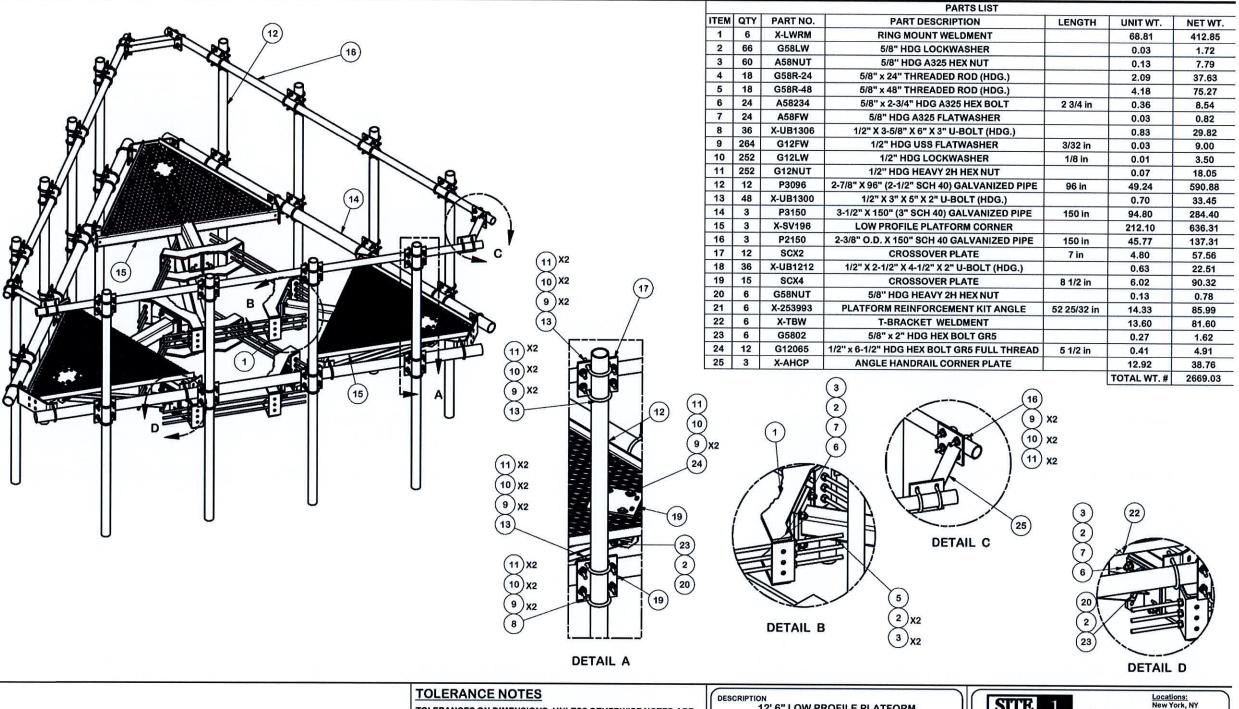
C RELOCATED MOUNT PIPE POSITIONS

DESCRIPTION OF REVISIONS

REVISION HISTORY

B CHANGED X-253992 TO X-TBW

A REPLACED HCP WITH X-AHCP





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ANTENNA MOUNTING DETAILS

SCALE: NONE

PROJECT 60498 SHEET VW ANT-3B

ANTENNA MOUNTING DETAILS

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES

SCALE: NTS

BENDS ARE ± 1/2 DEGREE

| DET | 5/23/2/21 | ALL OTHER MACHINING (± 0.030") | ALL OTHER ASSEMBLY (± 0.060")

4488 JET 5/23/2021

4488 CEK 7/14/2014

CPD BY DATE



CPD NO.

CLASS

81 02

4488

DRAWN BY

CEK 3/24/2014

CUSTOMER

12' 6" LOW PROFILE PLATFORM

WITH TWELVE 2-7/8" ANTENNA MOUNTING PIPES, AND SUPPORT RAIL

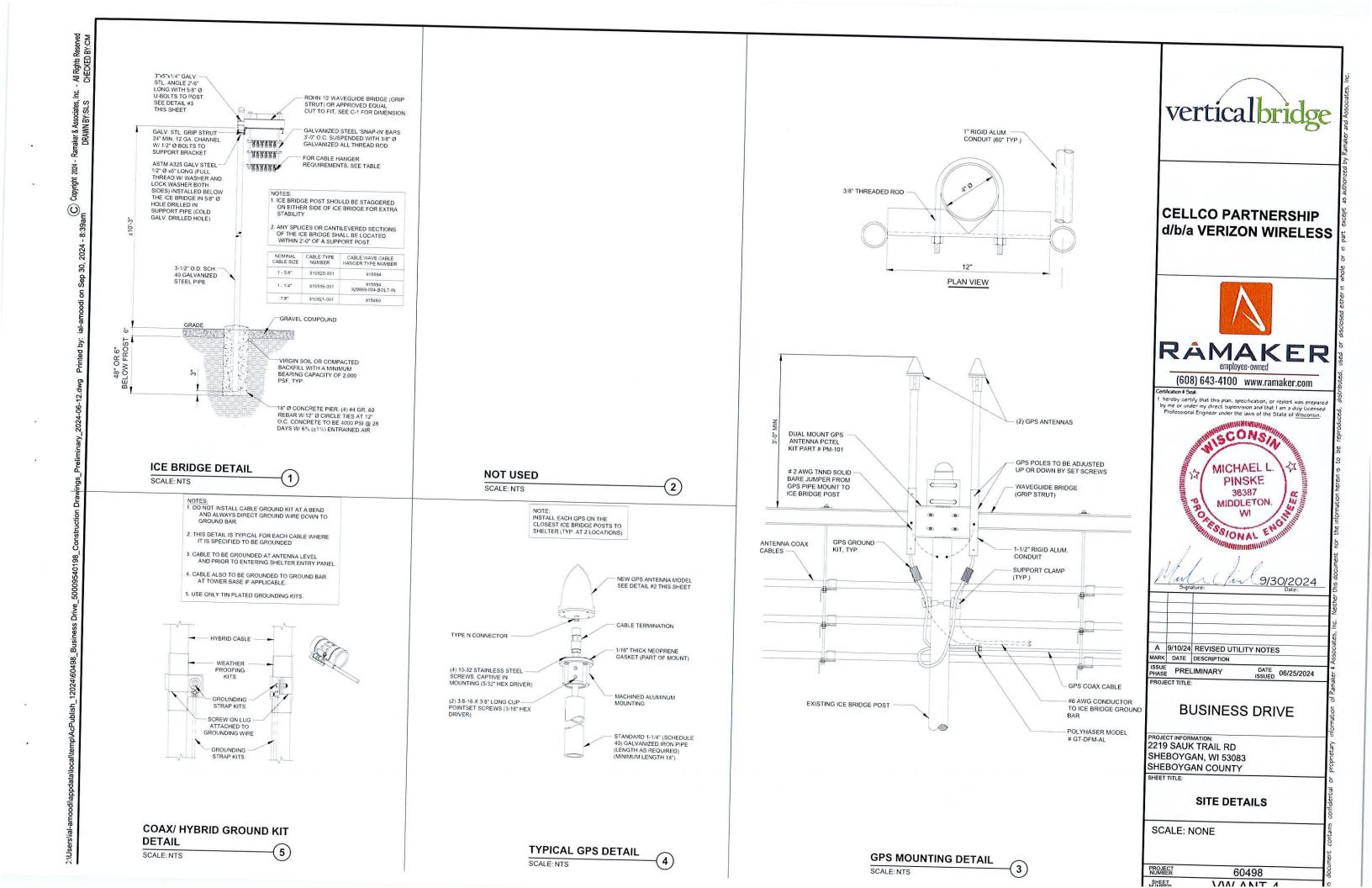
ENG. APPROVAL

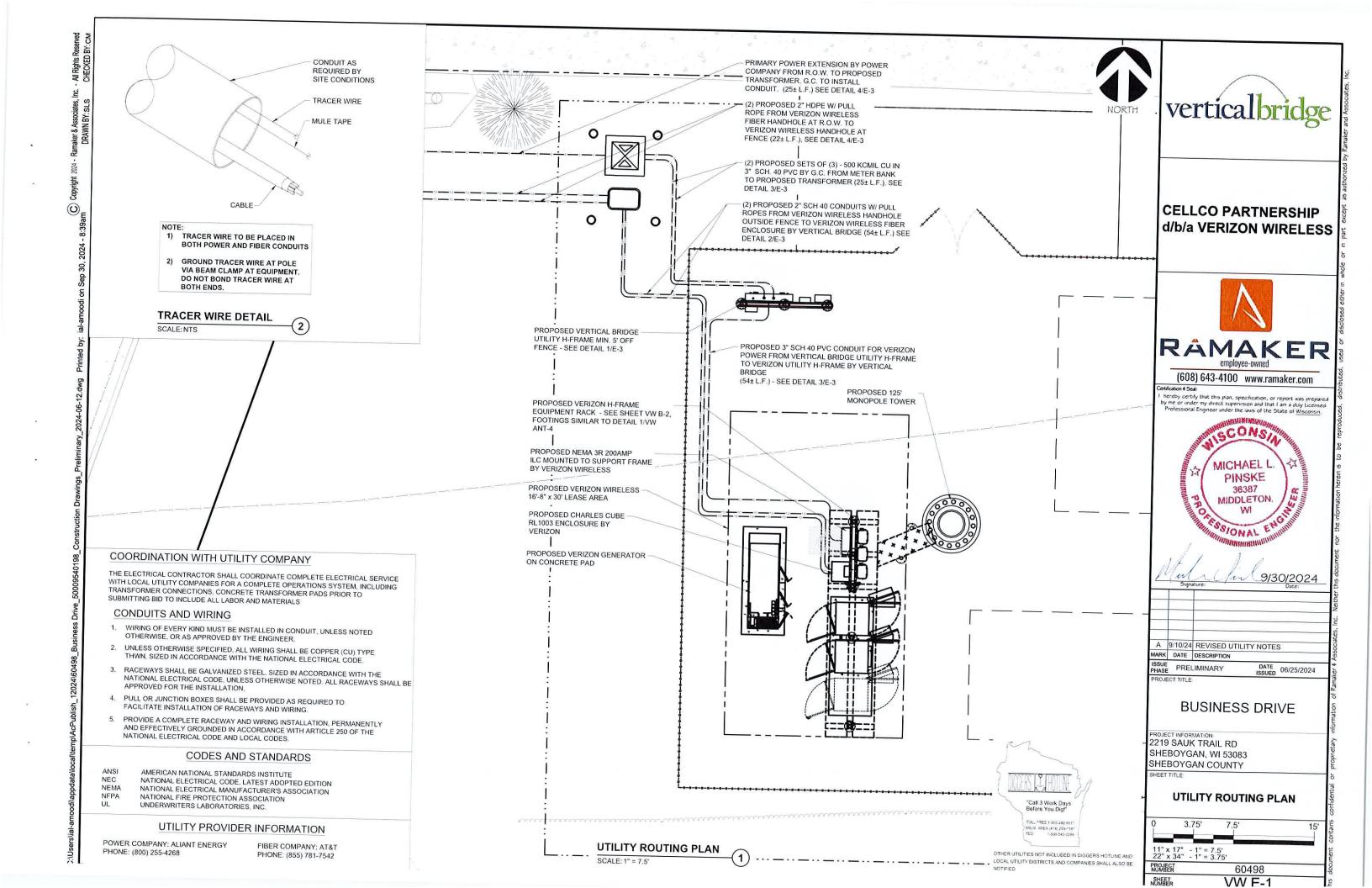
BMC 7/14/2014

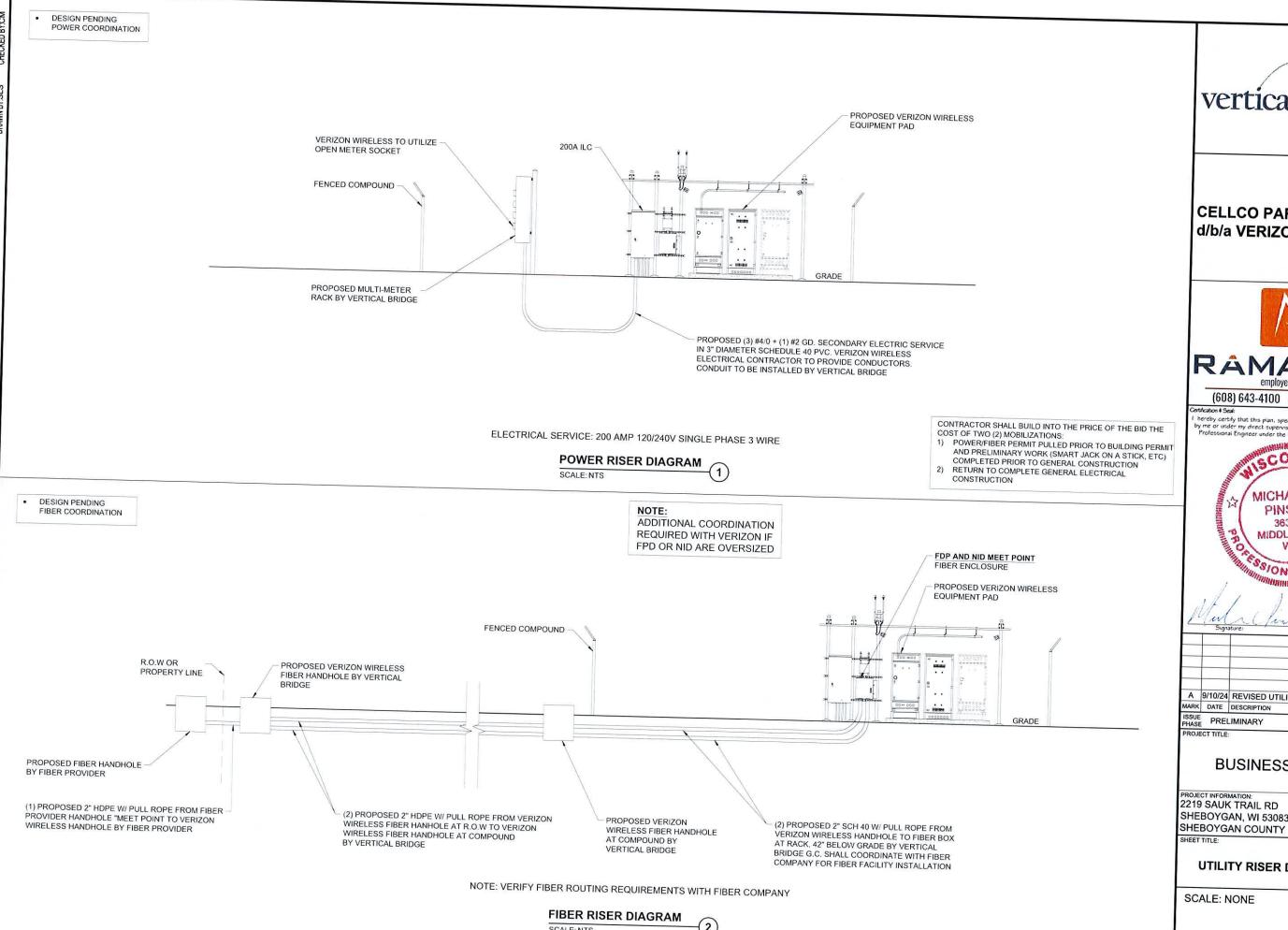
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RMQP-4096-HK

RMQP-4096-HK







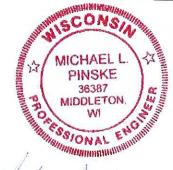
verticalbridge

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PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083

UTILITY RISER DIAGRAMS

PROJECT NUMBER

60498

\/\// \/ \/ \/ \/

(2) #12 THHN/THWN FROM GENERATOR TO TRANSFER SWITCH PER GENERAC TRANSFER SWITCH REQUIREMENTS. GENERATOR TAG CONDUCTORS "REMOTE **GENERATOR** START" 2 #16 THHN REMOTE START STRANDED FROM WIRING BLOCK. SEE NOTES #1 AND IF NOT PRESENTLY ON SITE E.C. MUST TRANSFER SWITCH PROVIDE: GENERATOR POWER FAIL THE A.C. FAIL RELAY IS CONNECTED TO EACH TAG CONDUCTORS PHASE OF THE INCOMING POWER. THE **GENERATOR** NORMALLY OPEN CONTACTS CLOSE UPON BLACK POWER FAIL LOSS OF POWER SENDING AN ALARM. GENERATOR FUEL TANK RUPTURE TAG CONDUCTORS IF INNER HULL LEAKS FUEL TANK THE ALARM CONTACTS RUPTURE WILL OPEN SENDING AN ALARM GENERATOR LOW FUEL IF FUEL IS LOW THE TAG CONDUCTORS CONTACTS OPEN SENDING LOW FUEL AN ALARM GENERATOR GENERATOR RUN TAG CONDUCTORS **GENERATOR RUN** GENERATOR COMMON TAG CONDUCTORS COMMON NOTES: 1) E.C. TO PULL A #16 AWG SOLID RED AND A #16 AWG SOLID BLACK FROM THE

ALARM WIRING

SCALE: NTS

(1)

TRANSFER SWITCH TO ALARM WIRING BLOCK FOR REMOTE START.
2) E.C. TO PULL ALL ALARM LEADS TO

MINIMUM OF 24" PIGTAILS AT ALARM WIRING BLOCK AND TAG CONDUCTORS AS INDICATED, TERMINATIONS ON ALARM POINT WIRING BLOCK BY OTHERS.

CONDUCTORS CAN BE RUN EXPOSED. THEY SHALL BE NEATLY BUNDLED USING

NYLON TIES AND SUPPORTED AT 2'-0"

INTERVALS FOR A NEAT INSTALLATION.

EXISTING ALARM WIRING BLOCK, LEAVE A

KEY 1 (3) #3/0 & (1) #2 GND IN 2-1/2" C

(4) #12 & (1) #12 GND IN 1" C (SEE NOTE)

(2) CAT-5 BELDEN IN 1" C FROM GENERATOR TO ALARM BOX. LEAVE 25' SPOOLED IN

4) (2) #12 THWN IN 3/4" C

(2) #16 THWN. LEAVE 25' OF #16 IN ALARM BOX

NOTE: E.C. TO PROVIDE (2) 20A 1-POLE CIRCUIT BREAKERS FOR BATTERY CHARGER AND JACKET HEATER

UTILITY SERVICE 120/240V PHASE 3 WIRE #2 GROUND KWH METER 120/240V 3 WIRE 3/4" x 10" **GENERATOR GROUND ROD** BATTERY PROPOSED FOUR-PLEX CHARGE & GFI RECEPTACLE (NEMA 3R) TO BE MOUNTED WITHIN HOUSING OF GENERATOR BLK HTR. (FOR COLD WEATHER HEATERS) (1) SERVICE FEED TO SERVICE (3)-NEW 200A ILC W/ ATS

NEW SINGLE LINE DIAGRAM

SCALE: NTS

12"x12"x6"

ALARM BOX

verticalbridge

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS



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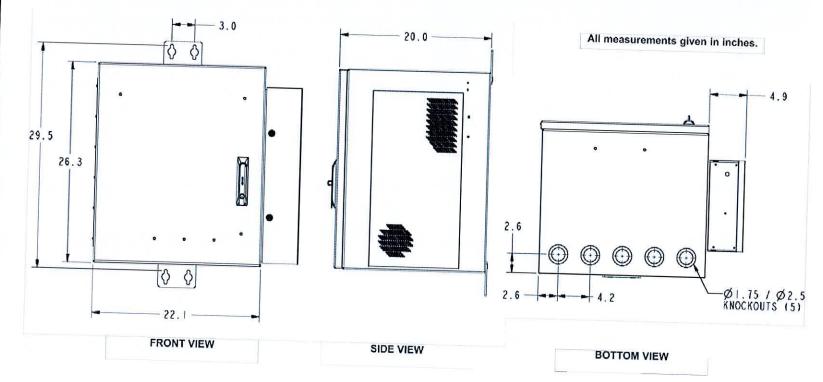
PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

GENERATOR SINGLE LINE DIAGRAM & ALARM WIRING

SCALE: NONE

PROJECT 60498 VW F-1C

Charles Universal Broadband Enclosures (CUBE) RL1000 Series Backhaul Cabinets



CUBE Accessories Pole Mount Kit H-Frame Hardware Kit Slide-Out Tray 10" Plinth Kit

CI Part # 97-CABPMTKIT 97-001971-A 97-001990-A 97-002127-A

INNOVATIVE ENCLOSED SOLUTIONS Charles Industries, Ltd.

(847) 806-6300 (847) 806-6231 www.charlesindustries.com

OG-OSP021-K16 **Esharles**

OVERALL DIMENSION	26"H X 22"W X 20"D					
RACK SPACE	14RU					
RACK WIDTH	19" EIA STANDARD					
HOLE SPACING ON RACKS	1" TAPPED 12-24					
BONDING & GROUNDING	(1) 8 POSITION, 2-HOLE GROUND BARS					
FUSE PANEL	(1) WALLMOUNT 10 POSITION GMT TYPE					
CABLE ENTRANCE	(5) 1.75/2.5" DOUBLE KNOCKOUTS					
COLOR	OFF-WHITE					
CONSTRUCTION	WELDED ALUMINUM					
WEIGHT (EMPTY)	80 LBS.					
MOUNTING	WALL OR H-FRAME, POLE MOUNT WITH OPTIONAL KIT					
THERMAL MANAGEMENT	17 W/°F HEAT EXCHANGER, 24 VDC POWER					
MANUFACTURER	CHARLES INDUSTRIES					
MODEL	CUBE-RL1003					
DIMENSIONS	26.3" X 22.1" X 20.0" (H X W X D)					
ACCESSORIES:						
POLE MOUNT KIT	97-САВРМКІТ					
H-FRAME HARDWARE KIT	97-001971-A					
SLIDE OUT TRAY	97-001991-A					
10" PLINTH KIT	97-002127-A					



CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS



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A 9/10/24 REVISED UTILITY NOTES MARK DATE DESCRIPTION

SSUE PRELIMINARY

DATE ISSUED 06/25/2024

BUSINESS DRIVE

PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

FIBER CABINET SPEC SHEET

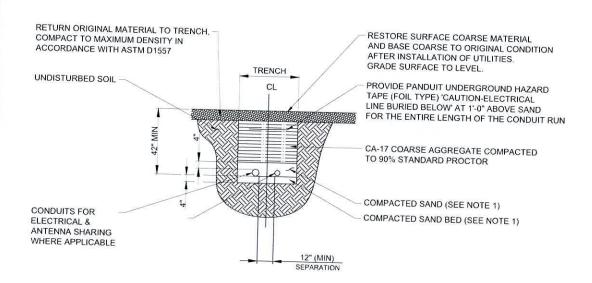
SCALE: NONE

PROJECT NUMBER

60498

NOTES:

- LEAN CONCRETE, RED-COLORED TOP, MAY BE USED IN PLACE OF COMPACTED SAND.
- 2. BURY CONDUITS 42" BELOW GRADE OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.
- 3. CONDUIT SIZE, TYPE, QUANTITY, AND SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.



UTILITY TRENCH DETAIL	
SCALE: NTS	

MAIN: 400	VC	ELES	E: 120/24	0	2.0	HAS	Ca. mana	
TO AUTOMATIC TRANS				_		IIAO	□1.WIRE: 3	
			200	A/2				
DESCRIPTION BRKR.		. WATTS	S/G A B	S/N	WATTS BRKR.		DESCRIPTION	
RECTIFIER 1	40/2	1250 1250	3 6	0	1250	40/2	RECTIFIER 5	
RECTIFIER 2	40/2	1250 1250	5 7	0 6	1250	40/2	RECTIFIER 6	
ECTIFIER 3	40/2	1250 1250	9	10	1250	40/2	RECTIFIER 7	
ECTIFIER 4	40/2	1250 1250	13	14	1250	40/2	RECTIFIER 8	
PACE			17	18	1200	20/1	CDADE	
PACE			19	20		20/1	SPARE	
PACE			21	22		20/1	SPARE	
PACE			23	24			SPACE	
ACE			25	26			SPACE	
PACE			27	-			SPACE	
PACE			29	28			SPACE	
ACE			31	30			SPACE	
ACE			33	32			SPACE	
ACE			35	34			SPACE	
HTS	20/1		17	36	100		SPACE	
OKE DETECTORS	20/1		9	38	360	20/1	GFCI RECEPTACLE *	
ERG LIGHTS/ EQUIP	20/1		1	40	1200	20/1	EQUIPMENT	
	20//	4		42	1000	20/1	GEN. GFCI RECEPTACLE *	
BTOTALS:		2022 5255	SURGE ARRESTOR					
TAL:		6000 5000			6360 6200			

SURFACE MOUNTED NEMA 3R w/ DOOR 22K AIC BREAKERS

(CONTRACTOR SHALL VERIFY AIC RATINGS W/ LOCAL POWER CO.)

PANEL BOARD SCHEDULE

SCALE: NTS

 VERIZON WIRELESS EQUIPMENT ENGINEERING TO SUPPLY BREAKER FOR RADIO AND POWER CABINETS

2. GENERAL CONTRACTOR TO SUPPLY BREAKERS NOTED WITH " * "

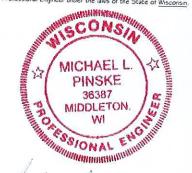


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by me or under my direct supervision and that I am a duly lucensed
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A 9/10/24 REVISED UTILITY NOTES

MARK DATE DESCRIPTION

ISSUE PRELIMINARY PROJECT TITLE:

DATE ISSUED 06/25/2024

BUSINESS DRIVE

PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

SHEET TITLE:

ELECTRICAL DETAILS

SCALE: NONE

PROJECT NUMBER 60498 SHEET

1/1// E 2

ELECTRICAL INSTALLATION NOTES

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS THE NATIONAL ELECTRICAL CODE (N.E.C.), AND ALL APPLICABLE LOCAL CODES.
- WIRING RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE N.E.C.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE N.E.C.
- 4. CABLES SHALL NOT BE ROUTED THROUGH LADDER CABLE TRAY RUNGS.
- 5. EACH END OF EVERY POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH N.E.C. & OSHA
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE, ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- 8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- 10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE NOTED.
- 11. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER) 600 V, OIL RESISTANT THHN OR THHN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- 12. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE)
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND N.E.C.
- 14. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- 17. RIGID NONMETALLIC CONDUIT(I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED; IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- 19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREWS FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND N.E.C.
- 21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL) AND RATED NEMA 1 (OR BETTER).
- 22. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1(OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS

- 23. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED; OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 24. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 25. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 26. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY

GROUNDING NOTES

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE N.E.C.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT & PROVIDE TESTING RESULTS.
- 4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE N.E.C. REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE N.E.C., SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- 6. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- 8. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- 9. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- 10. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- 12. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- 13. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS, IF REQUIRED BY EQUIPMENT INSTALLATION INSTRUCTIONS (NEC 110-3 (B)).
- 15. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- 16. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TOT HE GROUND RING, IN ACCORDANCE WITH THE N.E.C.
- 17. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH (1) #2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
- 18. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE SUED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.



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(m) 9/30/2024 Signature: Date:

A 9/10/24 REVISED UTILITY NOTES

MARK DATE DESCRIPTION

ISSUE PRELIMINARY DATE ISSUED 06/25/2024

BUSINESS DRIVE

PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

SHEET TITLE

ELECTRICAL AND GROUNDING NOTES

SCALE: NONE

60498 VW F-3

PROJECT NUMBER

KEYED NOTES

DESCRIPTION

- SYSTEM GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS. A THREE POINT SYSTEM RESISTANCE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH VERTICAL BRIDGE SPECIFICATIONS.

 - PERFORM THREE TESTS AT EACH SITE.
 CONTRACTOR SHALL PROVIDE A WRITTEN REPORT CONSISTING
 OF THE FOLLOWING: SITE NAME, ADDRESS AND IDENTIFICATION NUMBER, DESCRIPTION OF SITE SOIL AND MOISTURE CONDITION. DESCRIPTION OF WEATHER, MODEL NUMBER OF TESTING EQUIPMENT, DATE OF LAST CALIBRATION, SITE SKETCH SHOWING LOCATION OF TEST PROBES AND ALL FIELD DATA COLLECTED
 - COCATION OF TEST PROBES AND ALL FIELD DATA COLLECTED (READINGS, RANGE, TEST, MILLIAMPS, ETC.)
 CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES PERFORMING SYSTEM RESISTANCE TESTS OR IF MEASUREMENTS ARE ABOVE 5 OHMS. THE CONSTRUCTION MANAGER SHALL PROVIDE INSTRUCTION TO THE CONTRACTOR TO INSTALL ADDITIONAL CREUNING. THE CONTRACTOR TO INSTALL ADDITIONAL GROUNDING MEASURES TO MEET THE 5 OHM REQUIREMENT.
- PROPOSED TOWER GROUND RING BURIED TO A DEPTH OF 30" OR 6" BELOW THE FROST LINE, WHICHEVER IS GREATER.
- BOND PROPOSED TOWER TO TOWER GROUND RING (3 PLACES TOTAL).
- 4 SERVICE ENTRANCE GROUND ROD.
- BOND GROUND RING(S) TO SITE CORNER POST (TYP. x 4).
- BOND GATE POST TO PROPOSED GROUND RING (TYP. x 2).
- BOND FLEXIBLE JUMPER TO GATE (TYP. x 2).
- BOND PROPOSED H-FRAME TO GROUND RING (TYP. x 8).

EXTERIOR GROUNDING NOTES:

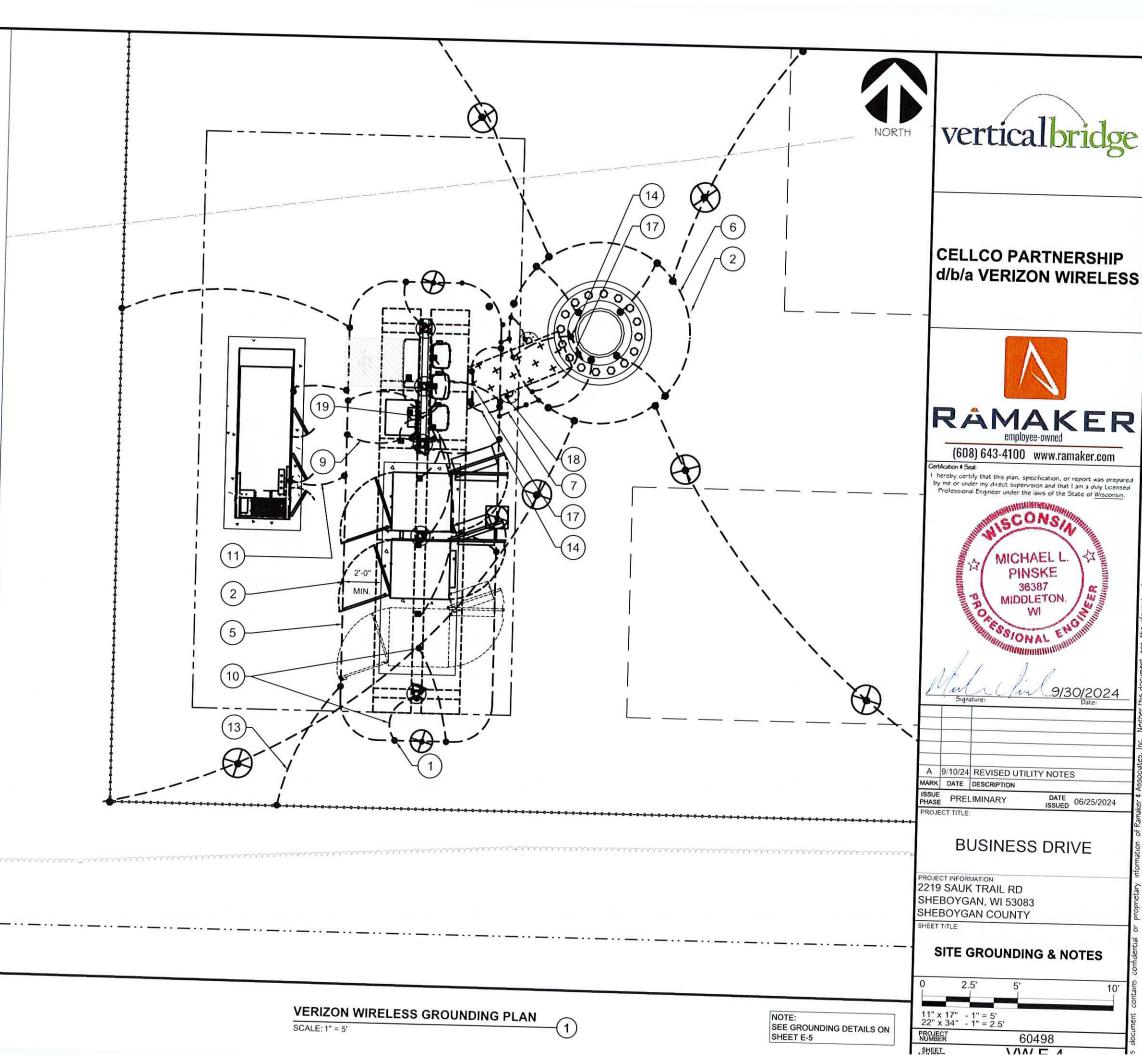
- GROUNDING SHALL CONFORM WITH VERTICAL BRIDGE STANDARDS AND PER FEDERAL, STATE AND LOCAL CODES. IN THE EVENT OF A CONFLICT, MEET THE MOST STRINGENT REQUIREMENT.
- GROUND RODS PAST METER SHALL BE COPPER CLAD STEEL 5/8 INCH DIAMETER X 10 FEET IN LENGTH (MIN.)
- ALL GROUND CONDUCTORS PAST METER SHALL BE #2 AWG SOLID BARE TINNED COPPER, MINIMUM BEND RADIUS FOR CONDUCTOR SHALL BE 8
- GROUND RODS SHALL BE SPACED NOT MORE THAN 16'-0" AND NOT LESS THAN 6'-0" APART EXCEPT FOR THE TOWER GROUND RING WHICH SHALL COMPLY WITH TIA/EIA 222 (REV G).
 CONTRACTOR SHALL ADD ADDITIONAL RODS AND CONDUCTORS OR
- APPROVED GROUND ENHANCING MATERIAL TO ACHIEVE LESS THAN 5 OHMS RESISTANCE TO GROUND.
- MAINTAIN 2'-0" (TOWER) AND 3'-0" (SHELTER) BETWEEN GROUND RINGS AND FOUNDATIONS.
- ALL GROUNDING INSTALLATIONS SHALL BE INSPECTED AND APPROVED BY ANY JURISDICTION HAVING INSPECTION & APPROVAL AUTHORITY (IF REQUIRED) AND VERTICAL BRIDGE BEFORE PLACING ANY BACKFILL.
- ALL GROUNDING SPLICES AND CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS (CADWELD OR EQUIVALENT). COAT ALL WELDS WITH A ZINC RICH PAINT.

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED.

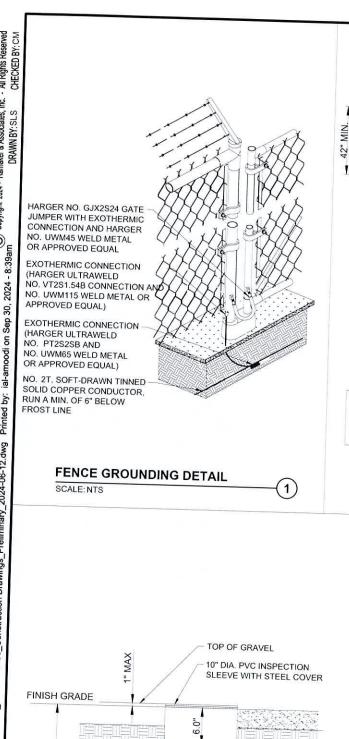
SYMBOLS LEGEND

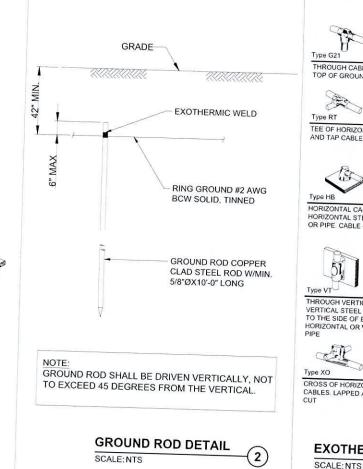
VZW GROUND LEAD

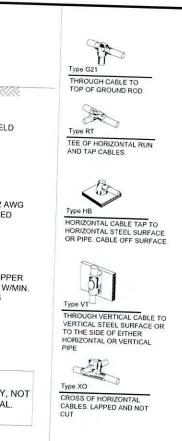


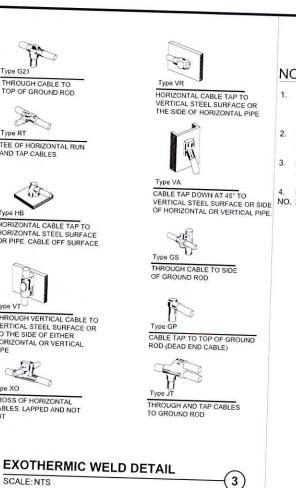


10"











PROPOSED HARGER 2x14.5" GROUND BAR (PN/ TGBR14214.5VER) MOUNT DIRECTLY TO TOWER STEEL.



5/8" LOCK WASHERS; NEWTON CAT. NO. A-6056 OR APPROVED EQUAL

CABLE TAP DOWN AT 45" TO VERTICAL STEEL SURFACE OR SIDE NO. 3012-1 OR APPROVED EQUAL

#2 AWG INSULATED STRANDED

SCALE: NTS

ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING

BELLEVILLES. COAT ALL SURFACES WITH KOPR-SHIELD

GROUND WIRE TO BOTTOM

GROUND BAR



ALL HARDWARE TO BE STAINLESS STEEL UNLESS OTHERWISE NOTED

7. NUTS TO FACE OUT

TWO HOLE LUG W/ 4/0 AWG GREEN STRANDED GROUND WIRE GROUND

TO TOWER STEEL

GROUND COLLECTOR BAR



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9/30/2024

A 9/10/24 REVISED UTILITY NOTES ARK DATE DESCRIPTION

ISSUE PRELIMINARY

DATE ISSUED 06/25/2024

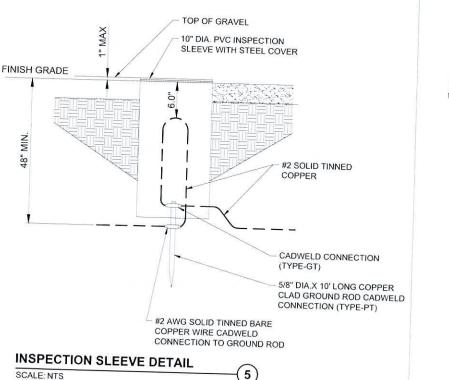
BUSINESS DRIVE

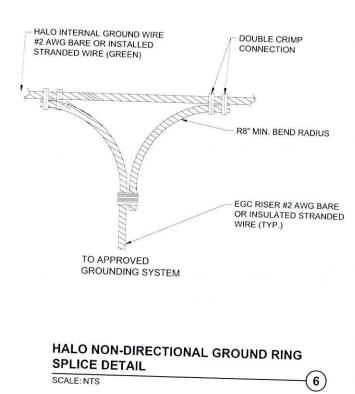
ROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY SHEET TITLE

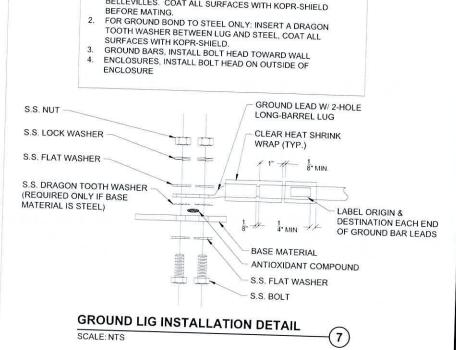
GROUNDING DETAILS

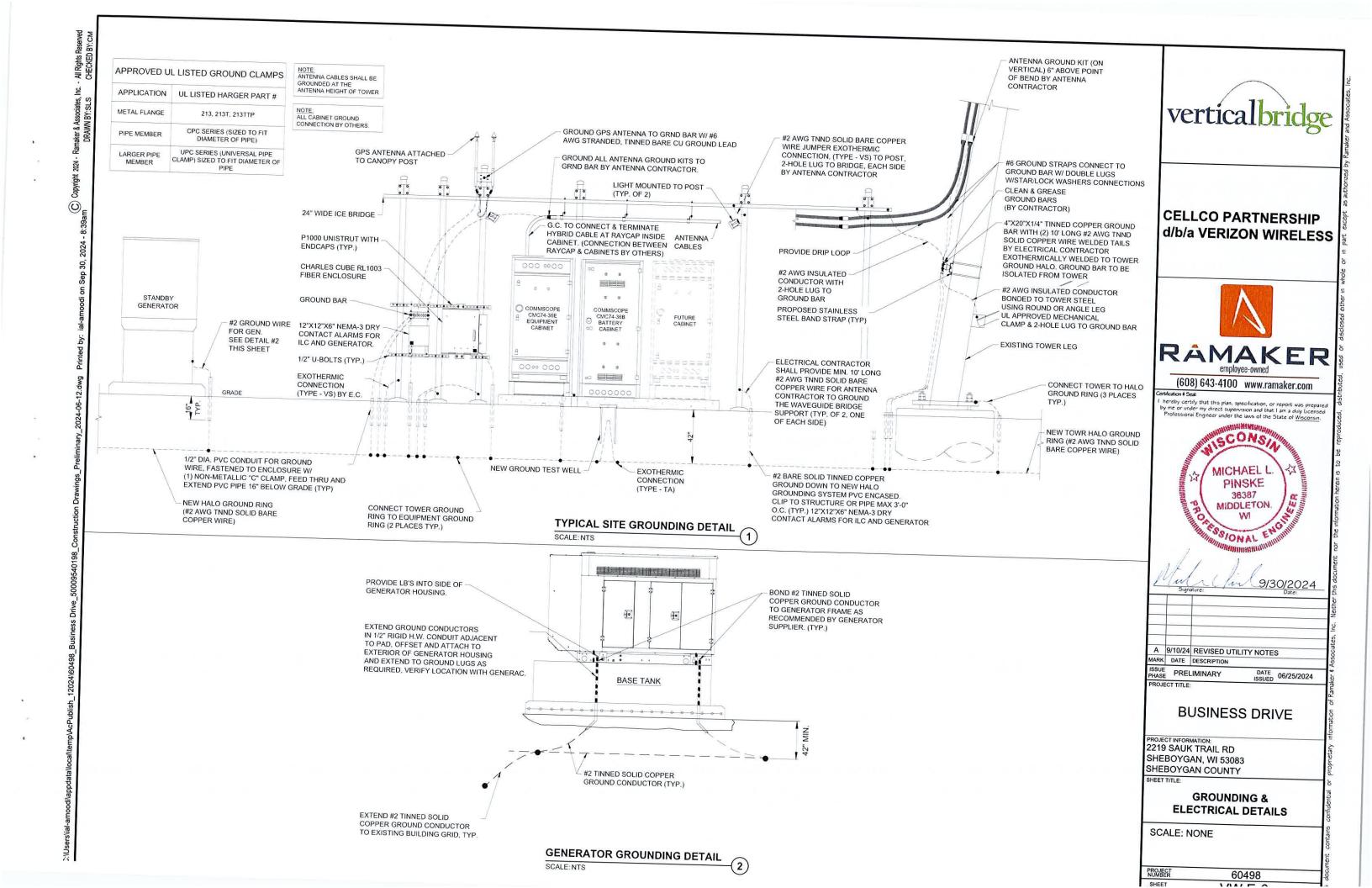
SCALE: NONE

PROJECT NUMBER 60498









Height H2:

Ordering Information

Weight:

D-Series Size 0 LED Area Luminaire





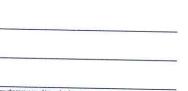




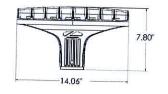
Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.



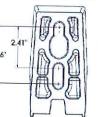


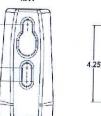


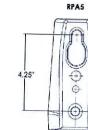
SPA (STANDARD ARM)

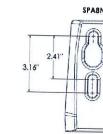
DSXO with RPA, RPA5, SPA5, SPA8N mount

Weight: 25 lbs







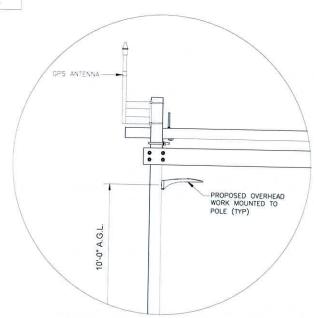




THE PURPOSE OF THE LIGHTING IS FOR WORKER SAFETY DURING EMERGENCY MAINTENANCE. THE LIGHT WILL BE PLACED ON MOTION SENSORS. THE EXTERNAL GLARE SHIELD (EGS) IS REQUIRED TO BE INSTALLED ON THE LIGHT FIXTURE. THE LIGHT FIXTURE WILL BE MOUNTED TO THE SOUTHEAST EQUIPMENT CANOPY SUPPORT POLE.

External Glare Shield (EGS)

EGSR



MOUNTING DETAIL (2) SCALE: N/A

Specifications 0.44 ft² EPA: (0.04 m²) 26.18" Length: 14.06" Width: Height H1:

2.26" (5.7 cm) 23 lbs





EXAMPLE:	DSX0 LED P6 40K 70CR	T3M MVOLT SPA	NLTAIR2 PIRHN DDBXD
raz Jányen			

DSX0 LED									
Series	LEDs Color temperature		Color Rendering Index ³	Distribution	Voitage		Mounting		
DSX0 LED	Forward optics P1 P5 P2 P6 P3 P7 P4 Rotated optics P10' P12' P11' P13'	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automative front row 11S lype I short 12M lype II medium 13M lype III medium 13LG lype III low glare ³ 14M lype IV medium 14LG lype IV low glare ³ 1FTM Forward throw medium	15M Type V medium 15LG Type V w giare 15W Type V wide BLC3 Type II backlight control 1 BLC4 Type IV backlight control 1 LCC0 Left corner cutoff 3 RCC0 Right corner cutoff 3	MYOLT HYOLT XVOLT	(347V-480V) ⁵⁶ (277V-480V) ²⁸	Shippe SPA RPA SPAS RPAS SPABN WBA MA	Square pole mounting (48 drilling, 3.5" min. SQ pole) Round pole mounting (48 drilling, 3" min. RND pole) Square pole mounting (48 drilling, 3" min. SQ pole) Round pole mounting (45 drilling, 3" min. SQ pole) Square narrow pole mounting (88 drilling, 3" min. SQ pole) Wall bracket " Mast arm adapter (mounts on 2.3/8" OD

Shipped installed PER7 Seven-pin receptade only (controls ordered separate) ^{14,15} Shipped installed NLTAIR2 PIRHM Inlight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc, 19, 2, 9, 19 DDBXD Dark Bronze HS Houseside shield (black finish standard) ** DBLXD Field adjustable output 15,19 L90 Left rotated optics 1 DNAXD Natural Aluminum BL30 Bi-level switched dimming, 30% 14.18 High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at $2fc^{13.38.16}$ R90 Right rotated optics 1 DWHXD White BL50 Bi-level switched dimming, 50% is is CCE Coastal Construction 2 DDBTXD Textured dark bronze DMG 0-10v dimming wires pulled outside PER NEMA twist-lock receptacle only (controls ordered HA 50°C ambient operation 22 **DBLBXD** Textured black fixture (for use with an external control, ordered separately) 12 Shipped separately **DNATXD** Textured natural aluminum Five-pin receptacle only (controls ordered separate) 14.13 EGSR External Glare Shield (reversible, field install required, matches housing finish) DWHGXD Textured white BSDB Bird Spikes (field install required)



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com © 2011-2023 Acuity Brands Lighting, Inc. All rights reserved.

DSX0-LED Rev. 03/15/23 Page 1 of 9

LIGHT FIXTURE SCALE: N/A





CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS



hereby certify that this pian, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Wisconsin. SCONS



9/30/2024

A 9/10/24 REVISED UTILITY NOTES MARK DATE DESCRIPTION

ISSUE PRELIMINARY DATE ISSUED 06/25/2024 PROJECT TITLE:

BUSINESS DRIVE

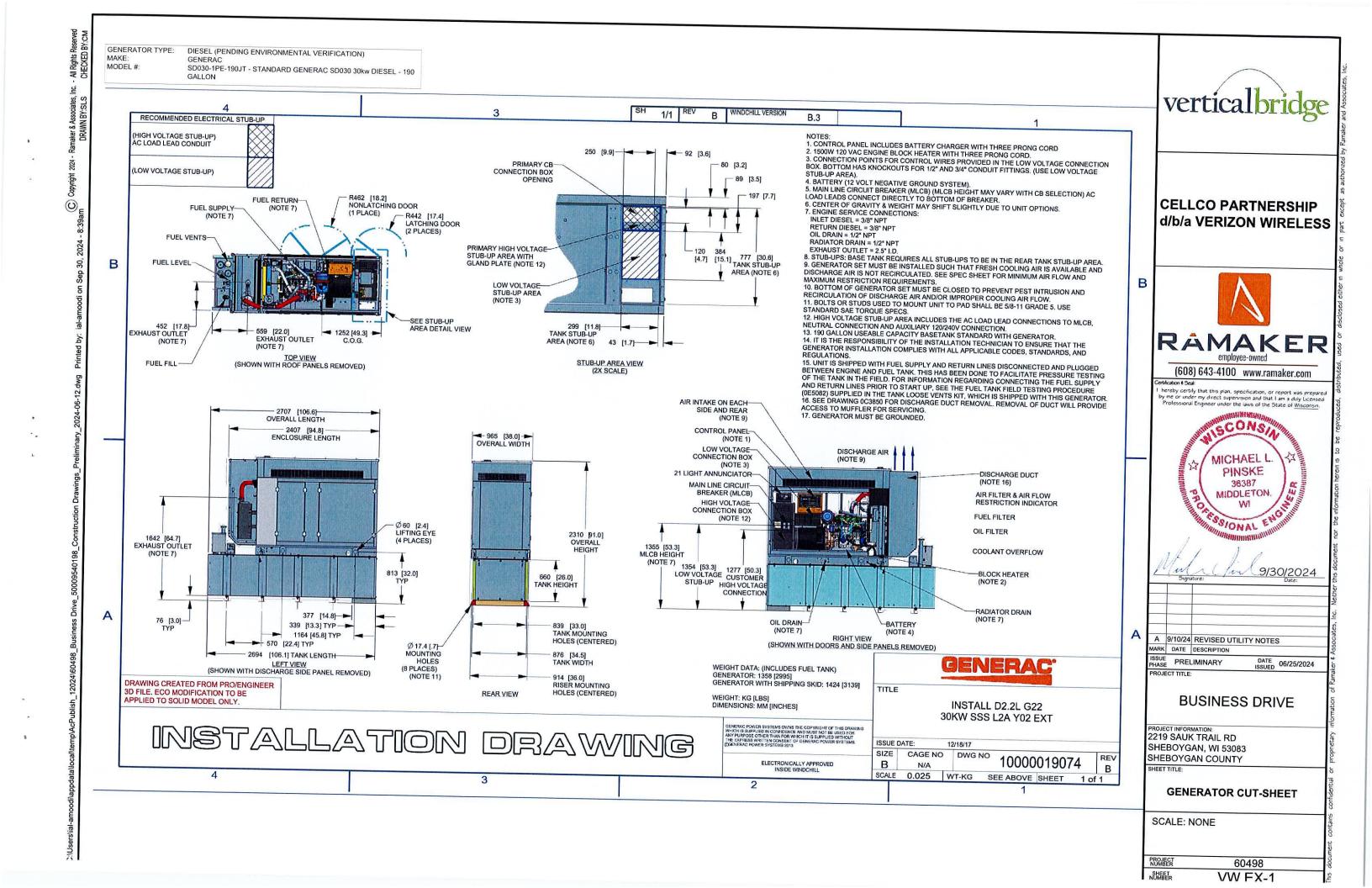
PROJECT INFORMATION: 2219 SAUK TRAIL RD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

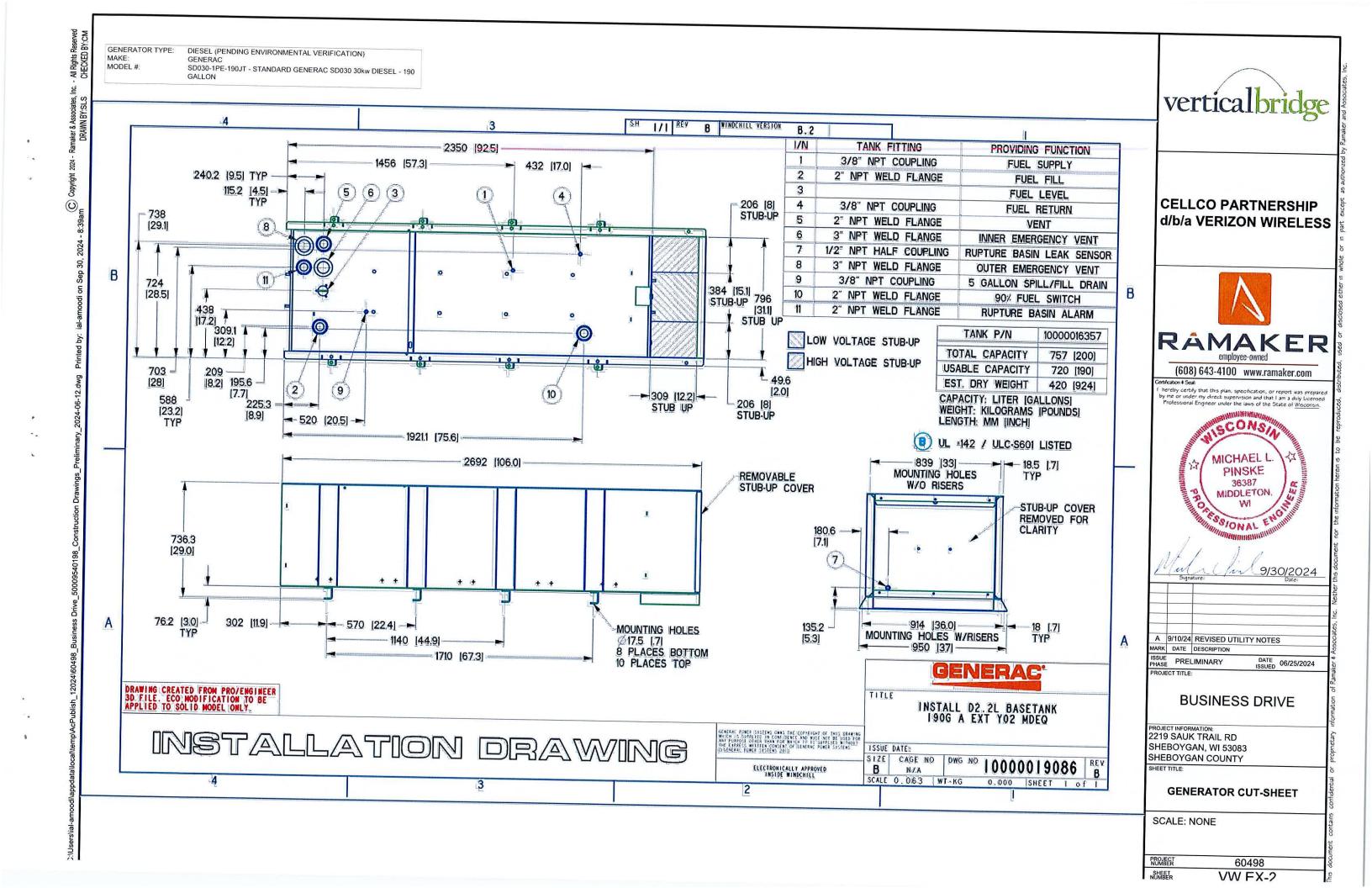
LIGHTING SPECIFICATIONS

SCALE: NONE

PROJECT 60498

SHEET **VW F-7**



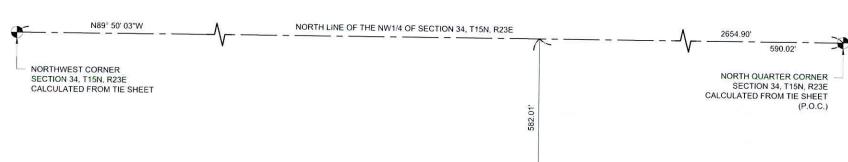


PARENT PARCEL DESCRIPTION PER TITLE REPORT

LOTS 13, 14, 15 AND 16, BLOCK 6, SOUTH SHEBOYGAN ADDITION, ACCORDING TO THE RECORDED PLAT THEREOF, IN THE CITY OF SHEBOYGAN, SHEBOYGAN COUNTY, WISCONSIN, AND THE WEST1/2 OF THE VACATED NORTH-SOUTH ALLEY ADJACENT TO THE EAST SIDE OF SAID LOTS.

PARCEL ID#: 59281425610

THIS BEING THE SAME PROPERTY CONVEYED TO MATTHEW J. DROSS AND LISA A. DROSS, HUSBAND AND WIFE FROM TIMOTHY T. KACHELMEIER, A SINGLE PERSON IN A WARRANTY DEED DATED MARCH 29, 2013, AND RECORDED APRIL 2, 2013, AS INSTRUMENT NO. 1965755, IN SHEBOYGAN COUNTY, WISCONSIN.



SOUTH SHEBOYGAN ADDITION BLOCK 6

(116.00')

(129.50)

(143.00')

(156.50')

- (170.00')

EXISTING CONCRETE

(193.50')

(207.00)

(220.50')

N89° 40' 20"W

(N89° 34' 18"W)

PARENT PARCEL

BOUNDARY, TYP.

DRIVEWAY, TYP.

(180.00')

LEASE AREA SEE

DETAIL ON SHEET 2 OF 2

S89° 40' 20"E

(S89° 15' 36"E)

EXISTING

BUILDING, TYP

(14.00)

(7')(7')

(7.00')

150.00

VICINITY MAP

SURVEYOR'S NOTES

- 1) ALL EASEMENTS AND/OR LEASE AREAS SHOWN AND NOT LABELED AS EXISTING SHALL BE PENDING UNTIL
- 2) AN ATTEMPT WAS MADE TO LOCATE ALL PROPERTY CORNERS AND MONUMENTS, WHERE NO MONUMENTS WERE FOUND, THE PROPERTY LINE WAS DRAWN BASED ON RECORDED AND/OR FILED DOCUMENTS
- 3) NOT TO BE USED AS CONSTRUCTION DRAWINGS.
- 4) LOCATION OF UTILITIES EXISTING ON OR SERVING THE SURVEYED PROPERTY WAS DETERMINED BY OBSERVED EVIDENCE, EVIDENCE FROM PLANS PROVIDED TO THE SURVEYOR OR MARKINGS PURSUANT TO A UTILITY LOCATE REQUESTED BY THE SURVEYOR. WISCONSIN DIGGER'S HOTLINE UTILITY LOCATE NUMBER 20242123159.
- 5) FIELDWORK WAS PERFORMED BY RAMAKER & ASSOCIATES AND REVIEWED BY TRENT D. NELSON, WISCONSIN SURVEYOR NUMBER 3132-8.
- 6) THE PURPOSE OF THIS SURVEY IS TO ESTABLISH AND DESCRIBE A LEASE AREA AND ASSOCIATED EASEMENTS FOR TELECOMMUNICATIONS EQUIPMENT. THIS IS NOT A BOUNDARY SURVEY OF THE PARENT PARCEL & THEREFORE RESETTING MISSING PROPERTY IRONS IS OUTSIDE THE SCOPE OF THE WORK BEING PERFORMED.
- 7) AT TIME OF SURVEY, THERE WERE NO ENCROACHMENTS AFFECTING THE 'THE TOWERS, LLC' LEASE AREA OR ASSOCIATED FASEMENTS
- 8) THE 'THE TOWERS, LLC' LEASE AREA AND ASSOCIATED EASEMENTS LIE WITHIN THE PARENT PARCEL 9) THE 'THE TOWERS, LLC' 30' WIDE ACCESS & 12' WIDE UTILITY EASEMENTS TERMINATES AT THE PUBLIC RIGHT-OF-WAY OF SAUK TRAIL ROAD.
- 10) PARENT PARCEL DESCRIPTION FROM RECORDED AND/OR FILED DOCUMENTS.
- 11) THIS MAP WAS PREPARED WITH THE AID OF A TITLE REPORT BY TOWER TITLE, LLC, FILE NUMBER: VTB-180142-C, DOCUMENT DATE: 04/25/2024.
- 12) BEARINGS ARE REFERENCED TO THE NORTH LINE OF THE NW1/4 OF SECTION 34, T15N, R23E, MEASURED TO BEAR N89°50'03"W BY GPS GRID USING THE WISCONSIN COUNTY COORDINATE SYSTEM, SHEBOYGAN
- 13) VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988
- 14) F.E.M.A. FLOOD PANEL MAP NUMBER 55117C0351F, ZONE X, AREA OF MINIMAL FLOOD HAZARD.

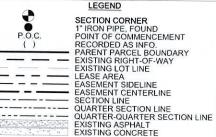
TITLE REPORT REVIEW

PREPARED BY: TOWER TITLE, LLC COMMITMENT NUMBER: VTB-180142-C COMMITMENT DATE: 04/25/2024

SCHEDULE B - PART II EXCEPTIONS:

1.-9. THE EXCEPTION DESCRIBES THE PARENT PARCEL SHOWN HERE WITHIN.

10. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "SOUTH SHEBOYGAN" RECORDED IN (BOOK) 1 (PAGE) 83, IN SHEBOYGAN COUNTY, WISCONSIN. (EXISTING SOUTH SHEBOYGAN ADDITION IS SHOWN ON SURVEY)





SAUK TRAIL ROAD

pervision and that I am a duly Licensed Land Surveyor under the La 40 FINAL (40

(120.00')

(120.00')

(120.00)

(120 00)

(120.00')

(120.00')

(120.00')

(120.00')

(120.00')

SOUTH SHEBOYGAN

ADDITION BLOCK 6

THE TOWERS, LLC

(608) 643-4100 www.ramaker.com



ertification \$ Seal: hereby certify to: Vertical Bridge REIT, LLC, a Delaware limited liability company, its subsidiaries, and their respective successors and/or assign and (ii) Toronto Dominion (Texas) LLC, as Administrative Agent, for itsel and on behalf of the lenders parties from time to time to that certain Second Amended and Restated Loan Agreement dated June 17, 2016 with Vertical Bridge Holdco, LLC, as borrower, and Vertical Bridge Holdr Parent, LLC, as parent, as may be amended, restated, modified or ewed, their successors and assigns as their interests may ap-Tower Title, LLC; that this Survey Document was prepared and is Survey Work was performed by me or under my direct personal

SCONSIA TRENT D NELSON 3132-8 WAUTOMA W

Trent D. Nelson, PLS icense Number: 3132-8

REV DATE DESCRIPTION

BUSINESS DRIVE THE TOWERS, LLC

US-WI-5737

DATE 07/11/2024

6

2219 SAUK TRAIL ROAD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

LEASE SURVEY

100 60498 1 OF 2

AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A CALCULATED MONUMENT LOCATING THE NORTH CORNER OF SAID SECTION 34; THENCE N89°50'03"W, 590.02 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 34: THENCE S0°00'00"E, 582.01 FEET TO THE POINT OF BEGINNING; THENCE N90°00'00"W, 50.00 FEET; THENCE S0°00'00"W, 13.00 FEET; THENCE N90°00'00"W, 64.00 FEET; THENCE S0°00'00"E, 70.00 FEET; THENCE N90°00'00"E, 114.00 FEET; THENCE N0°00'00"E, 83.00 FEET TO THE POINT OF BEGINNING. SAID LEASE AREA CONTAINS 8,630 SQUARE FEET (0.20 ACRES) AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS,

LEGEND

1 INCH IRON PIPE, FOUND POINT OF BEGINNING POINT OF TERMINATION

PARENT PARCEL BOUNDARY EXISTING RIGHT-OF-WAY

EXISTING TREELINE EXISTING OVERHEAD ELECTRIC EXISTING BURIED ELECTRIC EXISTING BURIED NATURAL GAS

RECORDED AS INFO

EXISTING LOT LINE

EASEMENT SIDELINE EASEMENT CENTERLINE SECTION LINE

EXISTING BURIED WATER

EXISTING ASPHALT EXISTING CONCRETE

FASE AREA

30' WIDE ACCESS EASEMENT CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN LOT 15 OF BLOCK 6 OF SOUTH SHEBOYGAN ADDITION LOCATED IN THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER (NE1/4-NW1/4) OF SECTION THIRTY-FOUR (34), TOWNSHIP FIFTEEN (15) NORTH, RANGE TWENTY-THREE (23) EAST, CITY OF SHEBOYGAN, SHEBOYGAN COUNTY, WISCONSIN AND WHOSE CENTERLINE IS FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A CALCULATED MONUMENT LOCATING THE NORTH CORNER OF SAID SECTION 34; THENCE N89°50'03"W, 590.02 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 34; THENCE S0°00'00"E, 582.01 FEET TO THE NORTHEAST CORNER OF THE AFOREMENTIONED LEASE AREA: THENCE N90°00'00"W, 50.00 FEET THENCE S0°00'00"W, 13.00 FEET; THENCE N90°00'00"W, 26.63 FEET TO THE POINT OF BEGINNING; THENCE N0°00'00"E 17.60 FEET; THENCE N90°00'00"W, 49.71 FEET TO EASTERLY PUBLIC RIGHT-OF-WAY OF SAUK TRAIL ROAD AND THE

12' WIDE UTILITY EASEMENT CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN LOTS 14 AND 15 OF BLOCK 6 OF SOUTH SHEBOYGAN ADDITION LOCATED IN THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER (NE1/4-NW1/4) OF SECTION THIRTY-FOUR (34), TOWNSHIP FIFTEEN (15) NORTH, RANGE TWENTY-THREE (23) EAST, CITY OF SHEBOYGAN, SHEBOYGAN COUNTY, WISCONSIN AND WHOSE CENTERLINE IS FURTHER DESCRIBED

COMMENCING AT A CALCULATED MONUMENT LOCATING THE NORTH CORNER OF SAID SECTION 34; THENCE N89°50'03"W, 590.02 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 34; THENCE S0°00'00"E, 582.01 FEET TO THE NORTHEAST CORNER OF THE AFOREMENTIONED LEASE AREA; THENCE N90°00'00"W, 50.00 FEET; THENCE S0°00'00"W, 13.00 FEET; THENCE N90°00'00"W, 64.00 FEET TO THE NORTHWEST CORNER OF THE AFOREMENTIONED LEASE AREA; THENCE S0°00'00"E, 7.00 FEET ALONG THE WEST LINE OF THE AFOREMENTIONED LEASE AREA TO THE POINT OF BEGINNING; THENCE N90°00'00"W, 20.79 FEET TO EASTERLY PUBLIC RIGHT-OF-WAY OF SAUK TRAIL ROAD AND THE POINT OF TERMINATION. SAID ACCESS EASEMENT CENTERLINE CONTAINS 20.79 LINEAR FEET, MORE OR LESS, AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED. SIDELINES OF SAID EASEMENT SHALL BE LENGTHENED OR SHORTENED TO BEGIN AT THE WEST LINE OF THE AFOREMENTIONED LEASE AREA AND TERMINATE AT THE EASTERLY PUBLIC RIGHT-OF-WAY OF SAUK TRAIL ROAD



(608) 643-4100 www.ramaker.com

THE TOWERS, LLC



Certication 4 Scal: I hereby certify to: Vertical Bridge REIT, LLC, a Delaware limited liability company, its subsidiaries, and their respective successors and/or assign and (ii) Toronto Dominion (Texas) LLC, as Administrative Agent, for itsel and on behalf of the lenders parties from time to time to that certain Second Amended and Restated Loan Agreement dated June 17, 2016 with Vertical Bridge Holdco, LLC, as borrower, and Vertical Bridge Hol Parent, LLC, as parent, as may be amended, restated, modified or anewed, their successors and assigns as their interests may appear; ar ower Title, LLC: that this Survey Document was prepared and the re Survey Work was performed by me or under my direct personal survey/or and that I am a duly Licensed Land Surveyor under the Land file State of Wisconsin



Frent D. Nelson, PLS License Number: 3132-8

> DATE DESCRIPTION FINAL DATE 07/11/2024

BUSINESS DRIVE THE TOWERS, LLC US-WI-5737

2219 SAUK TRAIL ROAD SHEBOYGAN, WI 53083 SHEBOYGAN COUNTY

LEASE SURVEY

