

LA CROSSE LA CROSSE - SC02 LOCATION #: 456164

220 VETERANS MEMORIAL DR. E.
 LA CROSSE, WI 54601



1515 WOODFIELD ROAD
 SCHAUMBURG, IL 60173



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Certification & 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.



Michael L. Pinske 4/23/2021
 Signature: Date:

CODE COMPLIANCE
<ul style="list-style-type: none"> WISCONSIN STATE BUILDING CODE WISCONSIN STATE ELECTRIC CODE 2011 NATIONAL ELECTRIC CODE

UNDERGROUND UTILITIES
CALL WISCONSIN ONE CALL (800) 242-8511 CALL 3 WORKING DAYS BEFORE YOU DIG!

XCEL ENERGY WA #
• XXXX

PROJECT INFORMATION		
SITE DATA SITE NAME: LA CROSSE - SC02 LOCATION #: 456164 SITE ADDRESS: 220 VETERANS MEMORIAL DR. E. LA CROSSE, WI 54601 LA CROSSE COUNTY I/A LATITUDE: 43° 48' 53.79" N (43.8149405°) I/A LONGITUDE: 91° 15' 19.58" W (-91.2554398°) LESSOR: VERIZON WIRELESS SITE ACQUISITION: RAMAKER & ASSOCIATES 855 COMMUNITY DRIVE SAUK CITY, WI 53583 CONTACT: CHAD MORGAN PHONE: (608) 643-4100 FAX: (608) 643-7999 EMAIL: cmorgan@ramaker.com RF ENGINEER: VERIZON WIRELESS CONTACT: SABHI SIDDIQUI EMAIL: sabhiuddin.siddiqui@verizonwireless.com REAL ESTATE MANAGER: VERIZON WIRELESS 1701 GOLF ROAD, TOWER 2, SUITE 400 ROLLING MEADOW, IL 60008 CONTACT: KATHRYN COGSWELL EMAIL: Kathryn.Cogswell@VerizonWireless.com PH.: (847) 619-4270	CONSTRUCTION MANAGER: VERIZON WIRELESS CONTACT: JON BARTELL EMAIL: jon.bartell2@verizonwireless.com PH.: (920) 841-1263 CONSULTING ENGINEER: RAMAKER & ASSOCIATES 855 COMMUNITY DRIVE SAUK CITY, WI 53583 CONTACT: CHAD MORGAN PHONE: (608) 643-4100 FAX: (608) 643-7999 EMAIL: cmorgan@ramaker.com POWER PROVIDER: XCEL ENERGY 414 NICOLLET MALL MINNEAPOLIS, MN 55401 PHONE: (800) 628-2121 FIBER PROVIDER: TBD ADDRESS CITY: WI XXXXX PHONE: (608) XXX-XXXX SCOPE OF WORK: INSTALLATION OF PROPOSED 5G EQUIPMENT ON A NEW VERIZON OWNED METAL POLE WITH UNDERGROUND ELECTRIC AND UNDERGROUND FIBER.	CITY OF LA CROSSE CONTACTS: DEPARTMENT OF PUBLIC WORKS CONTACT: MATTHEW GALLAGER EMAIL: gallagerm@cityoflacrosse.org PH.: (608) 789-7392 MAP LOCATION NOTE: TO SCAN THE QR CODE, DOWN LOAD A "QR READER APP"

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MARK	DATE	DESCRIPTION	INITIALS
C	04/20/21	ADDED TRAFFIC CONTROL PLAN	TWS
B	04/06/21	UPDATED METER PEDESTAL	TWS
A	02/26/21	UPDATED EQUIPMENT	TWS
ISSUE PHASE: PERMIT DATE ISSUED: 04/20/2021 PROJECT TITLE: <h2 style="text-align: center;">LA CROSSE</h2> <h3 style="text-align: center;">LA CROSSE - SC02</h3> <h3 style="text-align: center;">LOCATION #: 456164</h3> PROJECT LOCATION: 220 VETERANS MEMORIAL DR. E. LA CROSSE, WI 54601 LA CROSSE COUNTY SHEET TITLE: <h3 style="text-align: center;">TITLE SHEET</h3> SCALE: NONE PROJECT NUMBER: 35220 SHEET NUMBER: T-1			

Typical Application Diagrams

The following diagrams are examples of the application of standards, guidance, and options in the MUTCD, the Wisconsin Supplement and accepted practices.

These typical layouts are not a substitute for engineering judgment and need to be adapted to fit the conditions of a particular site.

Contract plans or other agency documents often contain applicable layouts required by the contract.

The diagrams are not to scale, and the number of channelizing devices shown might not be the number needed at the work site. Use the tables on the typical diagrams to determine taper and buffer lengths, and use pages 6–7 for guidance on the spacing and number of devices.

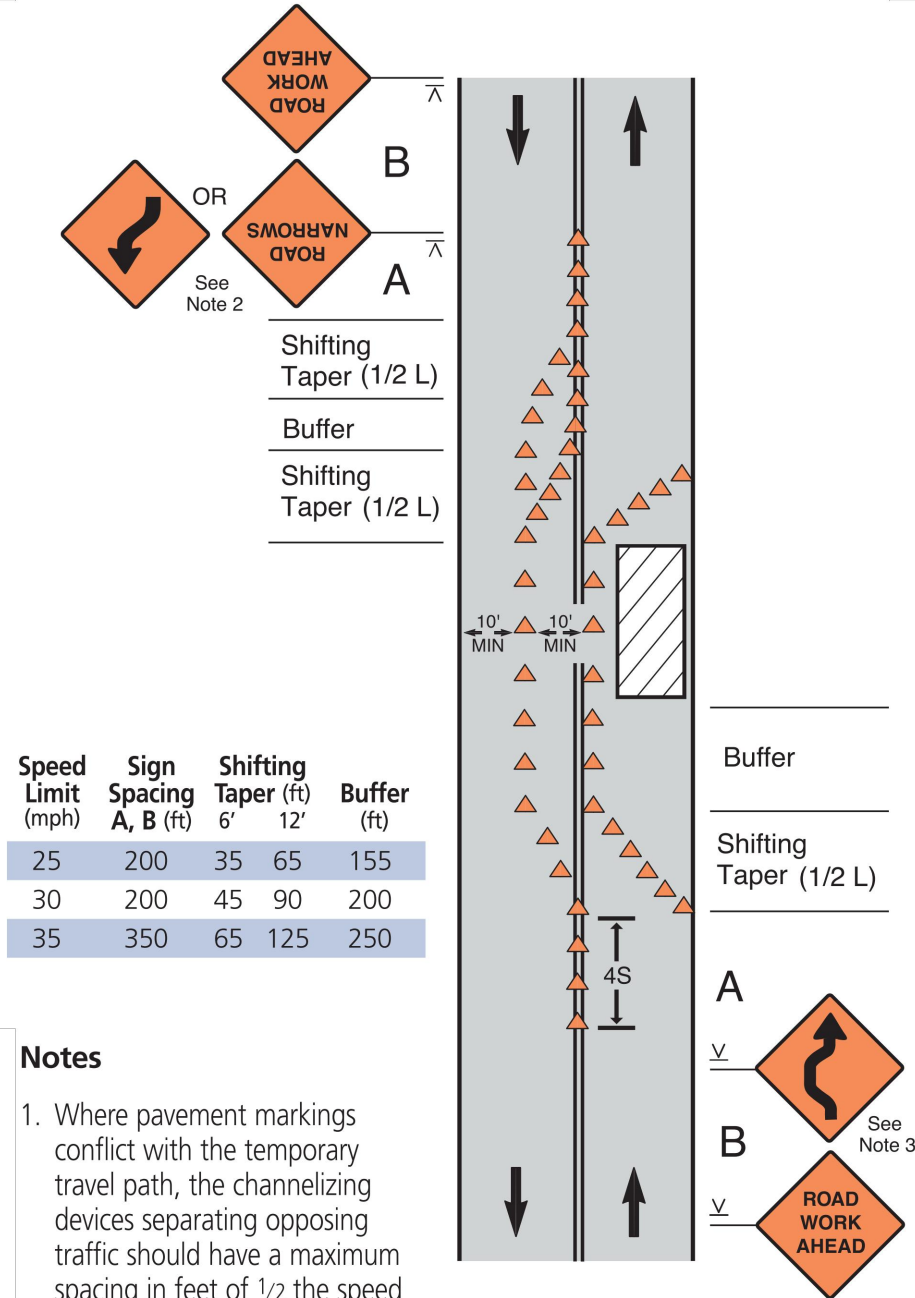
The notes and tables on the diagrams provide important information. **Read them carefully** before using the diagrams.

The diagrams and tables generally indicate minimums. For more information, refer to Part 6 of the MUTCD and the Wisconsin MUTCD supplement. These contain the standards for work zone traffic control.

Legend

	Channelizing Device		Type III Barricade
	Arrow Board		High Level Warning Device
	Flagger Symbol		Work Area
	Sign Support		Warning Sign
	Surveyor		Work or Shadow Vehicle with activated high intensity light
	Work or Shadow Vehicle with activated high intensity light		Work or Shadow Vehicle with Truck-Mounted Attenuator (TMA)

Work in Travel Lane (Maintaining Two-Way Traffic, 35 MPH or Less)



Speed Limit (mph)	Sign Spacing A, B (ft)	Shifting Taper (ft) 6'	Shifting Taper (ft) 12'	Buffer (ft)
25	200	35	65	155
30	200	45	90	200
35	350	65	125	250

Notes

- Where pavement markings conflict with the temporary travel path, the channelizing devices separating opposing traffic should have a maximum spacing in feet of 1/2 the speed limit in mph.
- The ROAD NARROWS or Reverse Curve/Turn sign is optional on roads with low volume or where the lane shift requires only a minor deviation in the travel path. The Reverse Curve/Turn sign is appropriate for larger deviations in the travel path.
- If the tangent is more than 600 feet, the Reverse Curve/Turn sign should be used instead of the Double Reverse Curve sign.
- If speeds are 30 mph or less, Reverse Turn signs shall be used instead of Reverse Curve.



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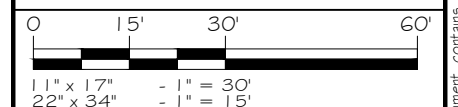
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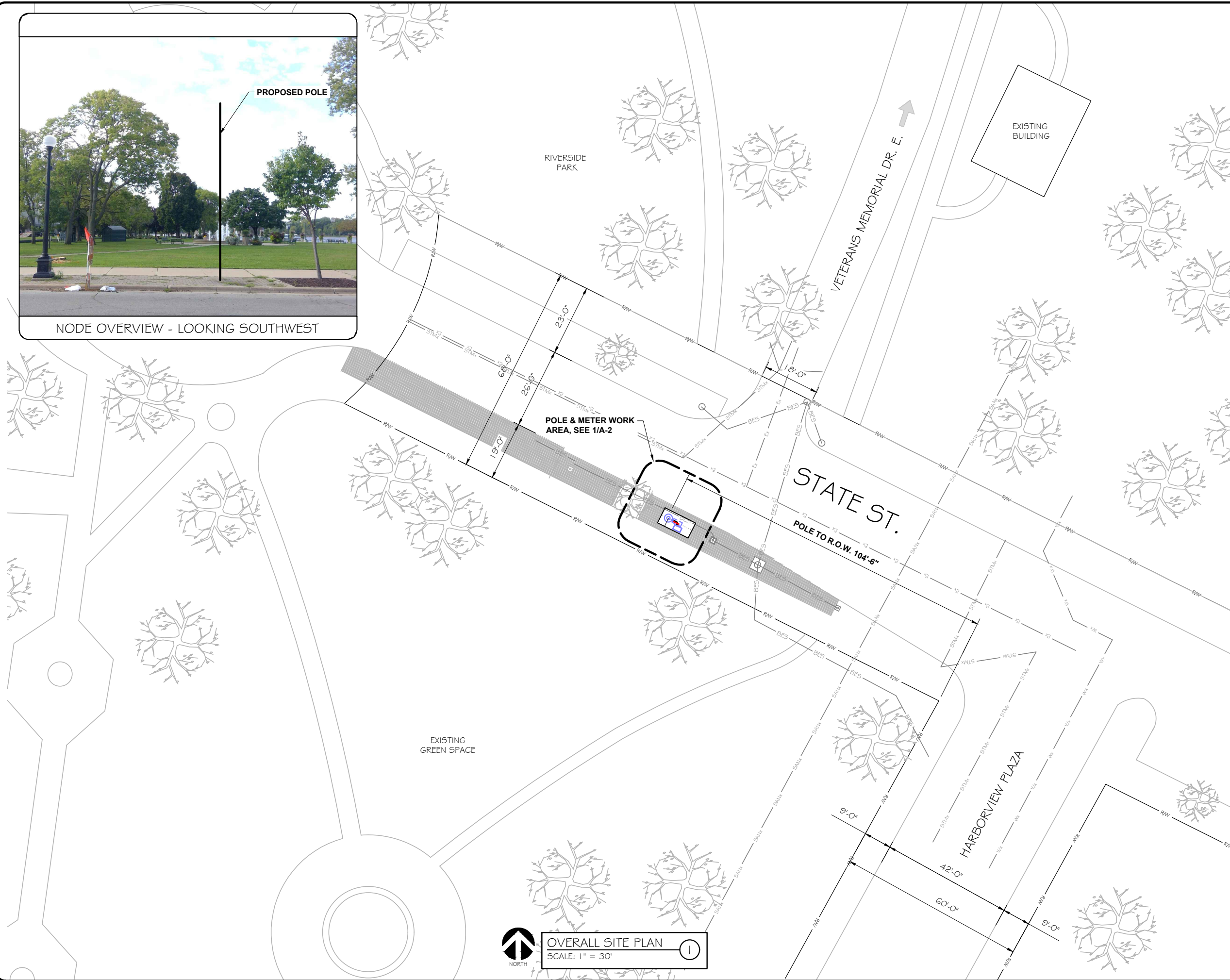
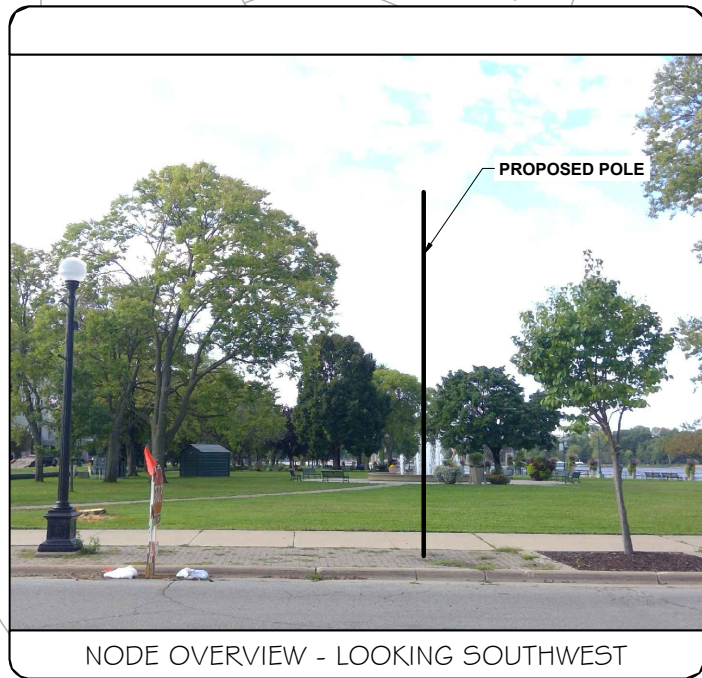
LA CROSSE
LA CROSSE - SC02
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LA CROSSE COUNTY

SHEET TITLE:
OVERALL SITE PLAN



PROJECT NUMBER: 35220
SHEET NUMBER: TC-1



OVERALL SITE PLAN
 SCALE: 1" = 30'

verizon

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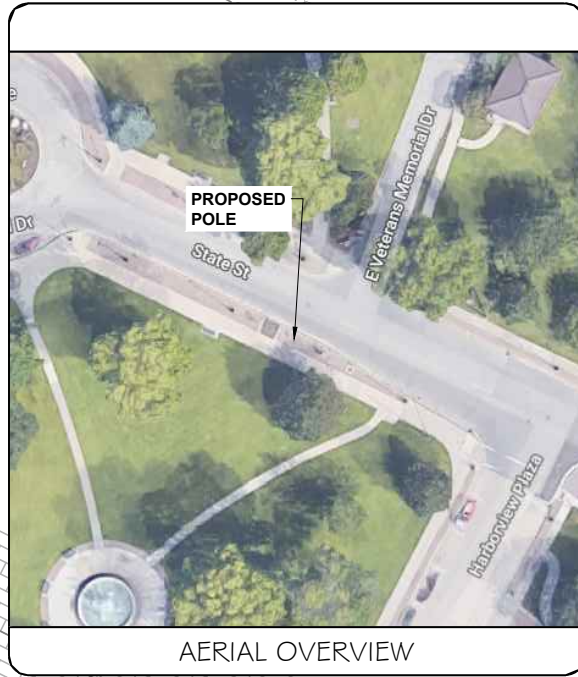
OVERALL SITE PLAN

0 15' 30' 60'

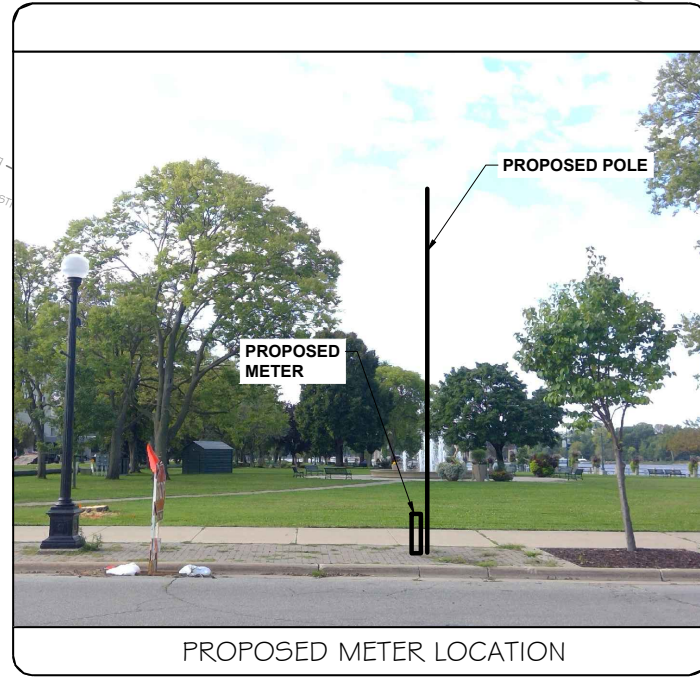
11" x 17" - 1" = 30'
 22" x 34" - 1" = 15'

PROJECT NUMBER: 35220

SHEET NUMBER: A-1



AERIAL OVERVIEW



PROPOSED METER LOCATION



ENLARGED SITE PLAN (POLE & METER)
 SCALE: 1" = 5'



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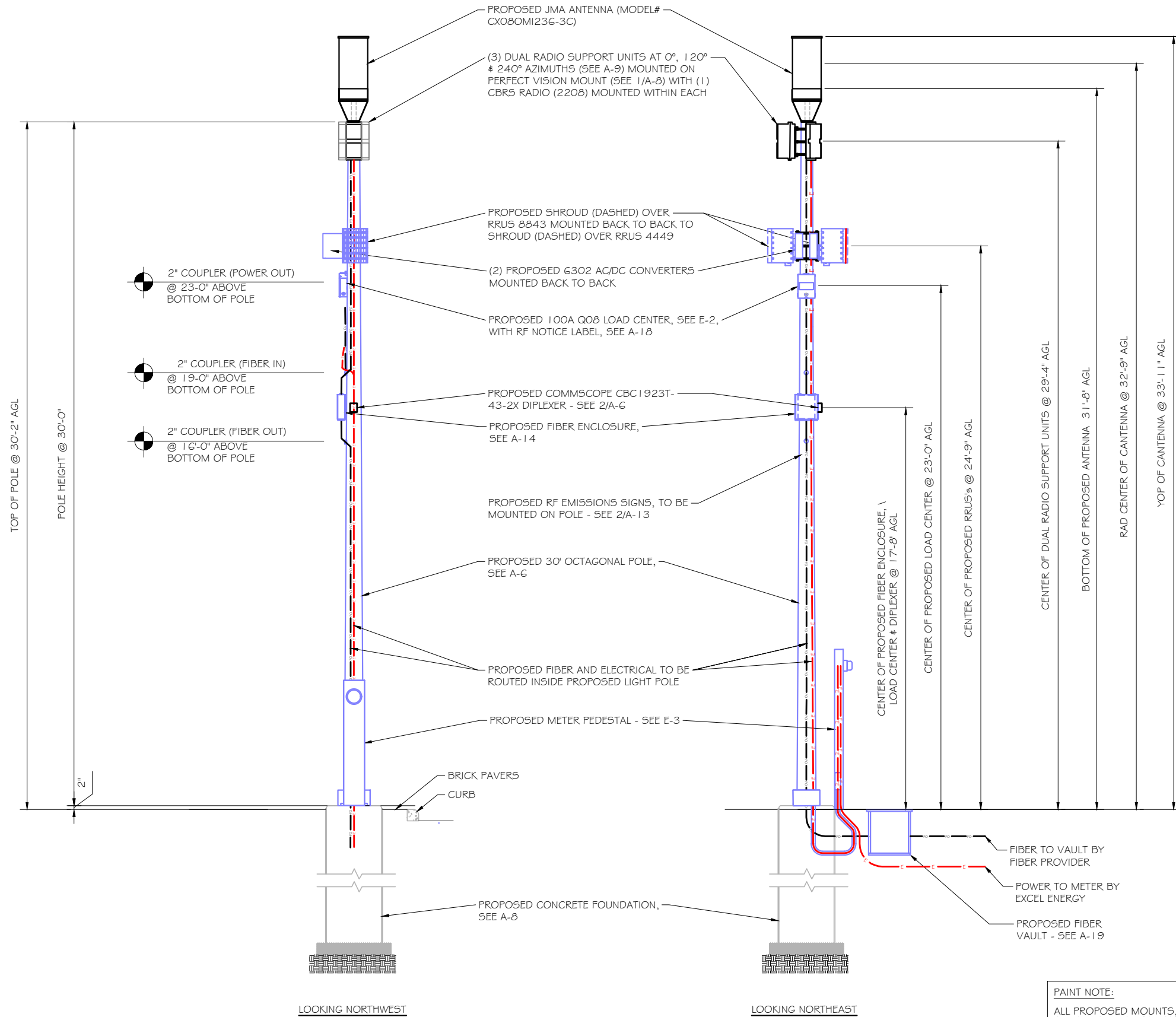
ENLARGED SITE PLAN



11" x 17" - 1" = 5'
 22" x 34" - 1" = 2.5'

PROJECT NUMBER: 35220

SHEET NUMBER: A-2



PROPOSED POLE ELEVATIONS
 SCALE: 1" = 5'

PAINT NOTE:
 ALL PROPOSED MOUNTS, CABLES, RRU, SHROUDS & RELATED EQUIPMENT SHALL BE PAINTED TO MATCH THE SELECTED POLE WITH RF FRIENDLY PAINT. DO NOT PAINT ANTENNAS

PAINT COLOR:
 PANTONE BLACK 426C



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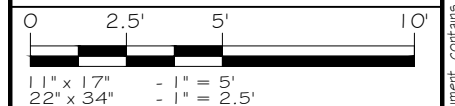
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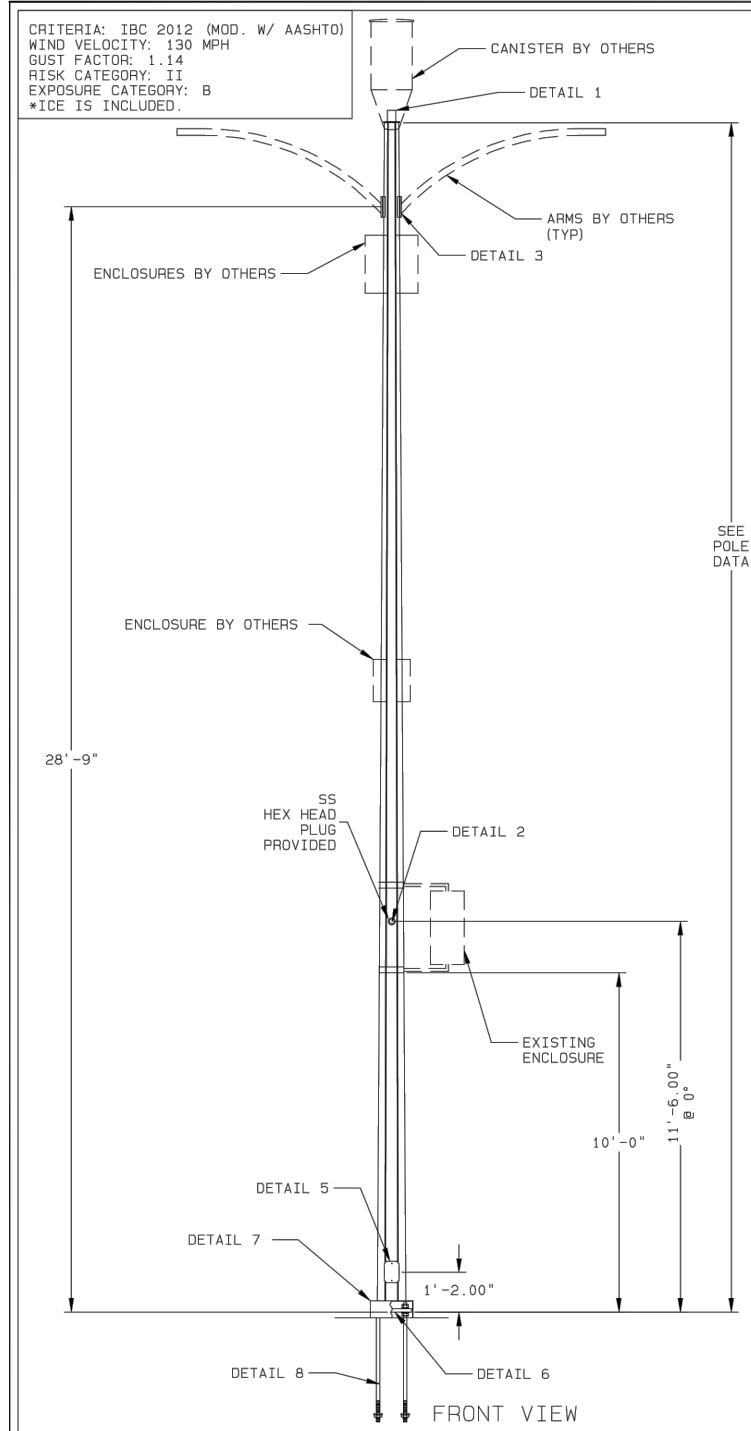
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SHEET TITLE:
PROPOSED POLE ELEVATIONS



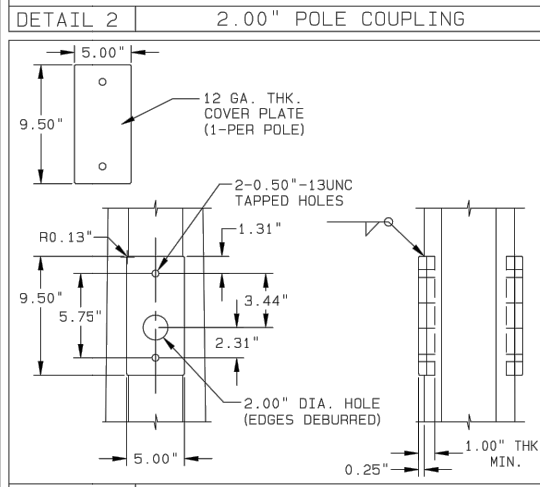
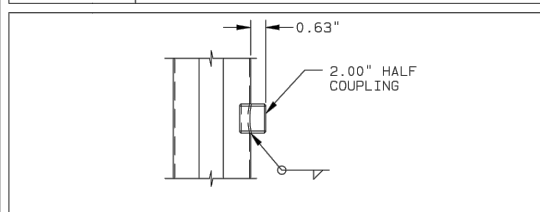
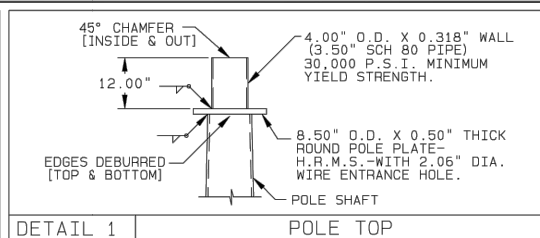
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SHEET NUMBER: A-3



CRITERIA: IBC 2012 (MOD. W/ AASHTO)
 WIND VELOCITY: 130 MPH
 GUST FACTOR: 1.14
 RISK CATEGORY: II
 EXPOSURE CATEGORY: B
 *ICE IS INCLUDED.

SEE POLE DATA

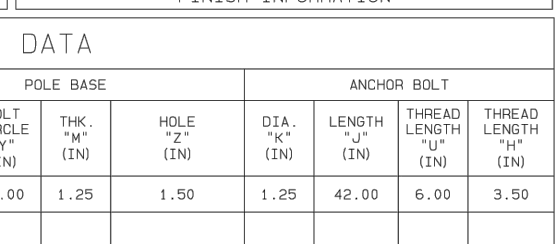
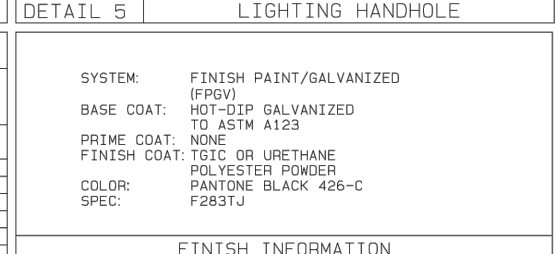
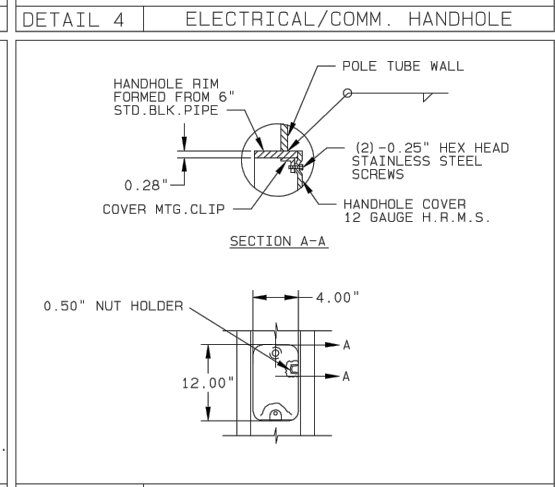
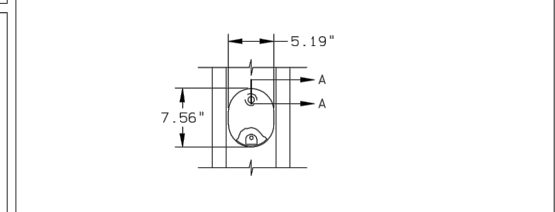
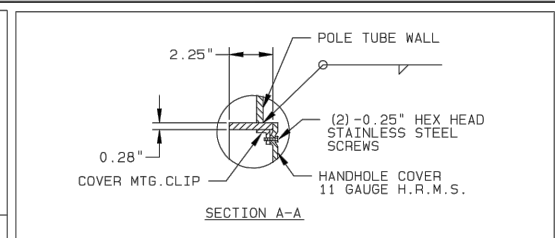


MATERIAL DATA

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
TAPERED TUBES	A572	65
POLE BASE	A36	36
BRACKET PLATE	A36	36
ANCHOR BOLTS	F1554 GR. 105	105
GALVANIZING-HARDWARE	HOT DIP ZINC	--

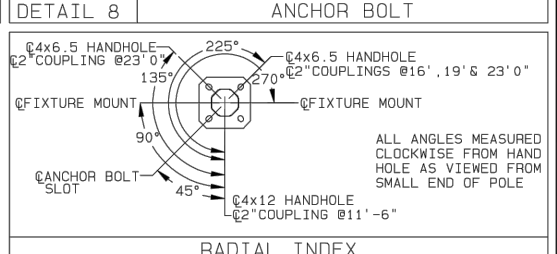
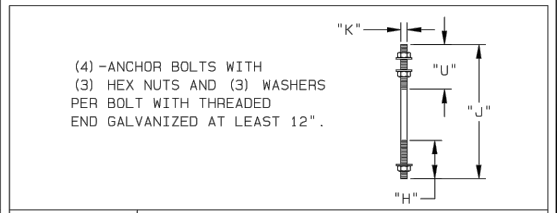
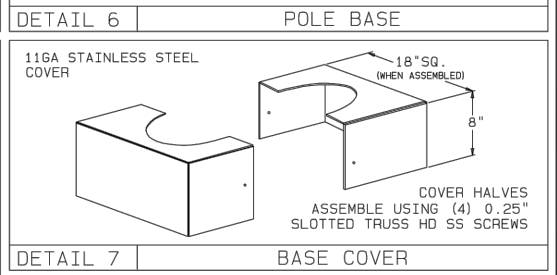
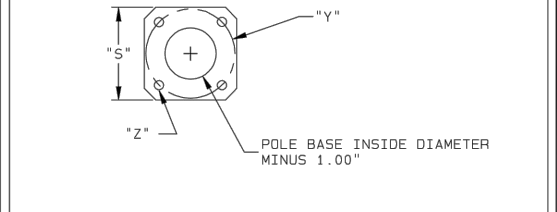
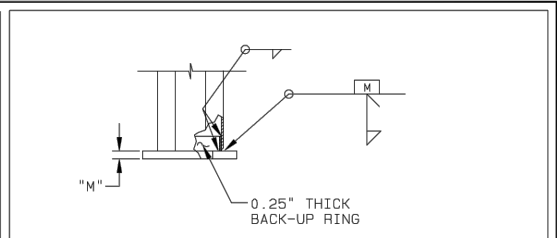
POLE DATA

ITEM	QTY.	POLE TUBE			POLE BASE			ANCHOR BOLT					
		BASE F-F (IN)	TOP F-F (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	THREAD LENGTH "U" (IN)	THREAD LENGTH "H" (IN)
1	1	12.00	7.80	30.00	0.188	17.00	16.00	1.25	1.50	1.25	42.00	6.00	3.50



FINISH INFORMATION

SYSTEM: FINISH PAINT/GALVANIZED (FPGV)
 BASE COAT: HOT-DIP GALVANIZED TO ASTM A123
 PRIME COAT: NONE
 FINISH COAT: TGIC OR URETHANE POLYESTER POWDER PANTONE BLACK 426-C
 COLOR: F283TJ
 SPEC: F283TJ



REV	DATE	BY	CHK	DESCRIPTION
RP7	11/25/19	DJ7	11/27/19	

SOLD TO: MKE 30' OCTAGONAL POLE MILWAUKEE, WI - SMALL CELL
 SHIP TO: MKE 30' OCTAGONAL POLE MILWAUKEE, WI - SMALL CELL
 P.O. #: MKE 30' OCTAGONAL POLE MILWAUKEE, WI - SMALL CELL
 AGENT: SPECTRUM LIGHTING, LTD

JOB: MKE 30' OCTAGONAL POLE MILWAUKEE, WI - SMALL CELL
 TITLE: SMALL CELL STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.

valmont
 Valley, NE 68064
 (402) 359-2201

ORDER NUMBER: 467461-P1
 PAGE NUMBER: 1 OF 2
 DRAWING NUMBER: WI467461P1
 REV

verizon

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LA CROSSE - SC02

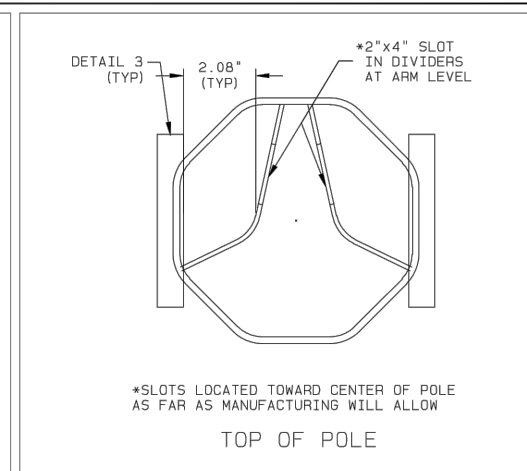
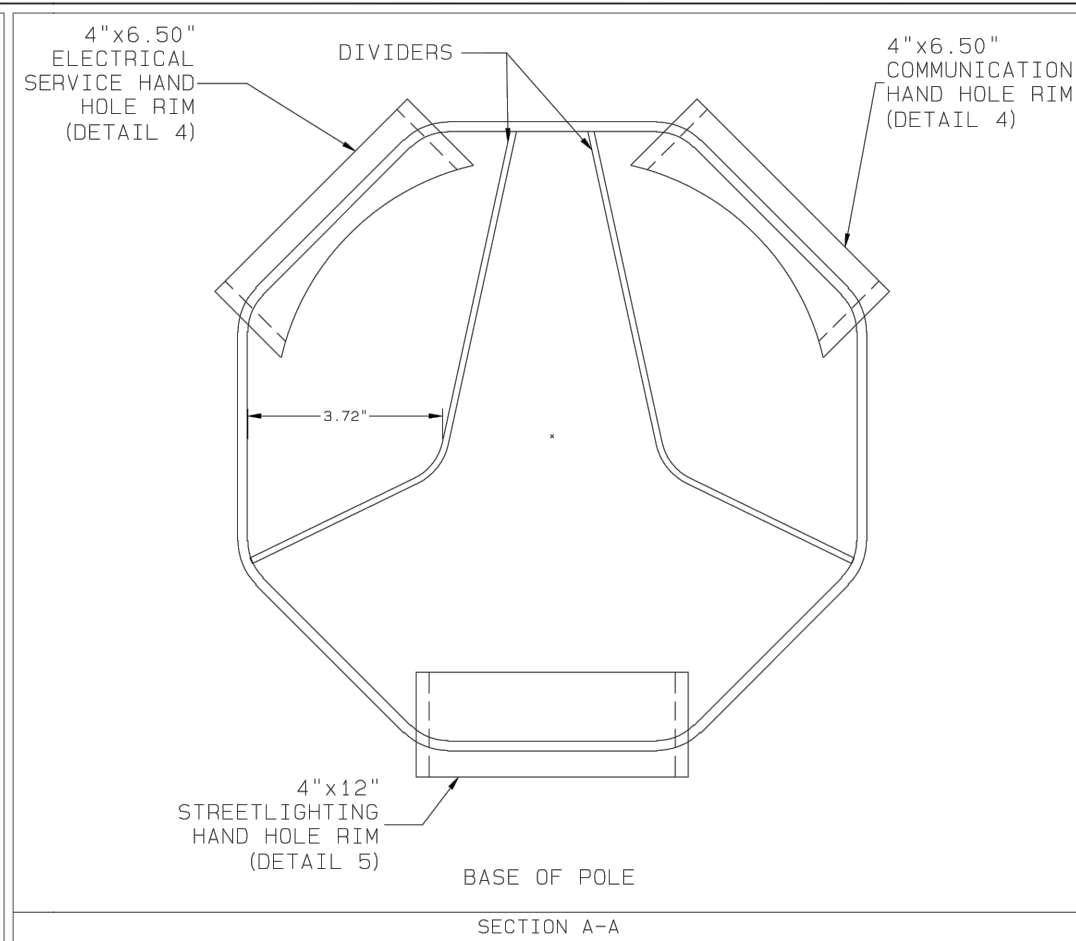
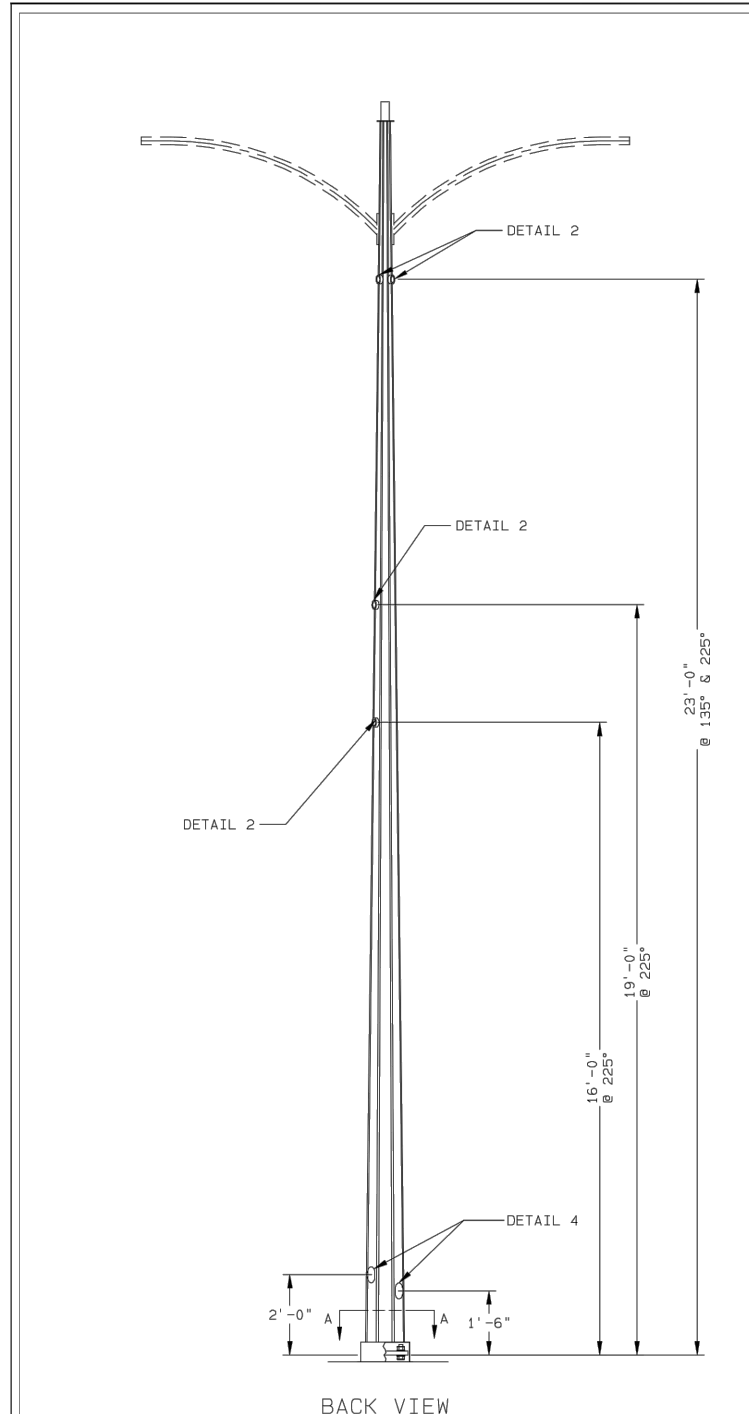
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SHEET TITLE:
 POLE SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER: 35220
 SHEET NUMBER: A-6



JOB MKE 30' OCTAGONAL POLE
 MILWAUKEE, WI - SMALL CELL
 TITLE SMALL CELL STRUCTURES

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 PAGE NUMBER: 2 OF 2
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PROPOSED POLE
 SCALE: NTS



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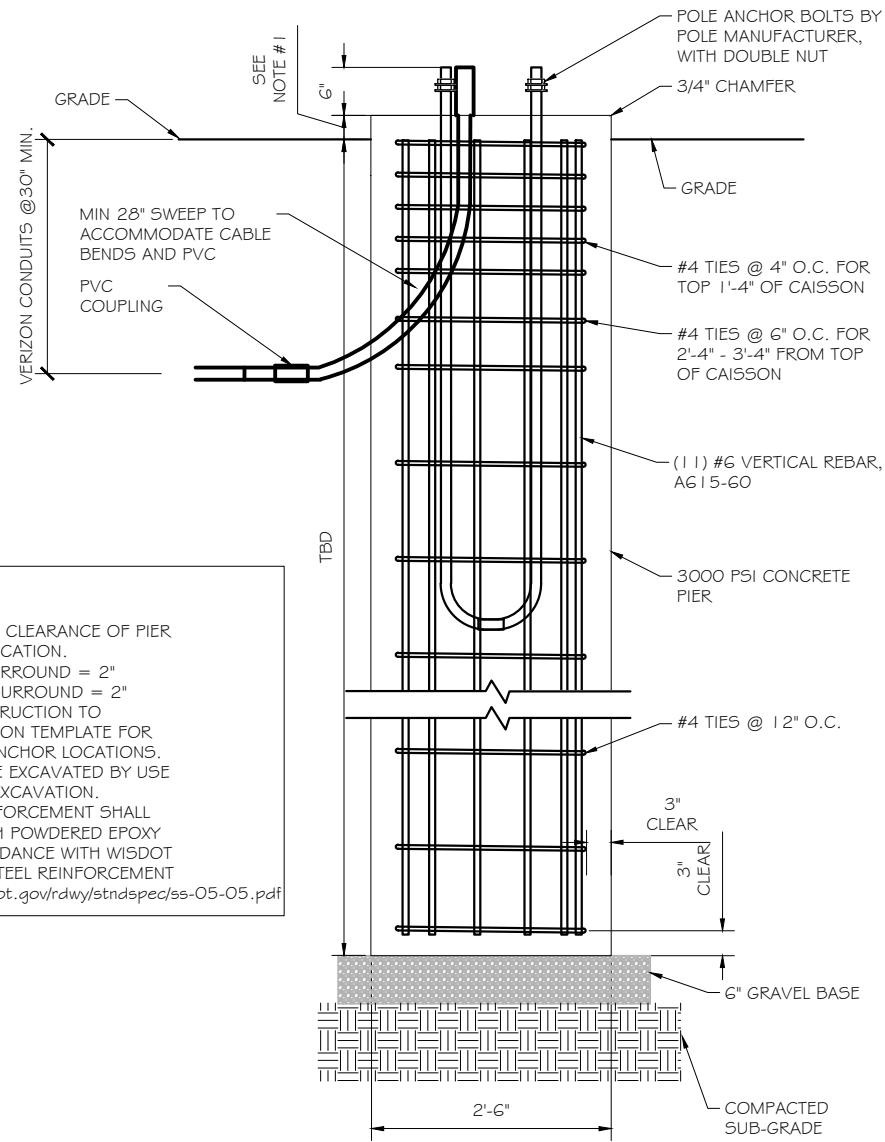
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SHEET TITLE:
POLE SPECIFICATIONS

SCALE: NONE

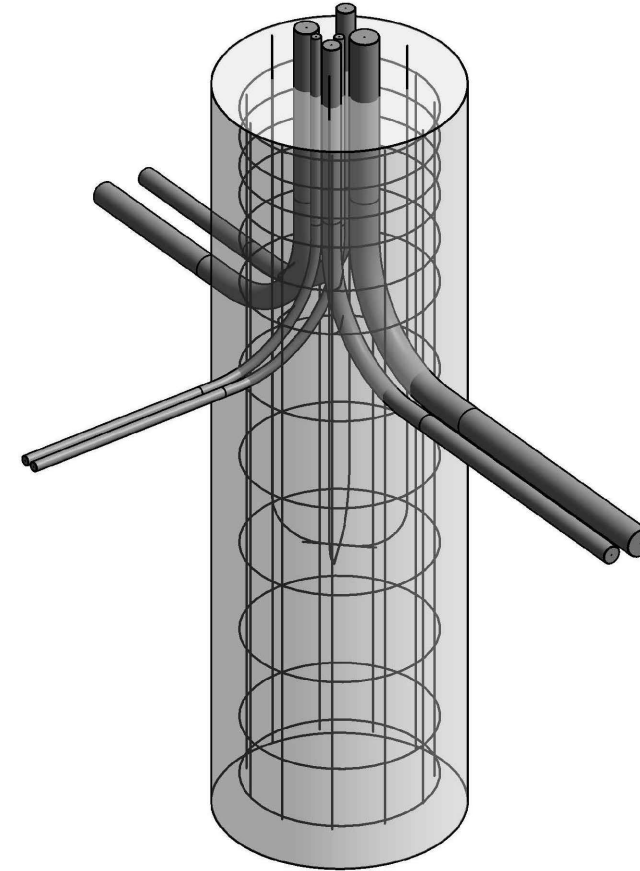
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SHEET NUMBER: A-GA

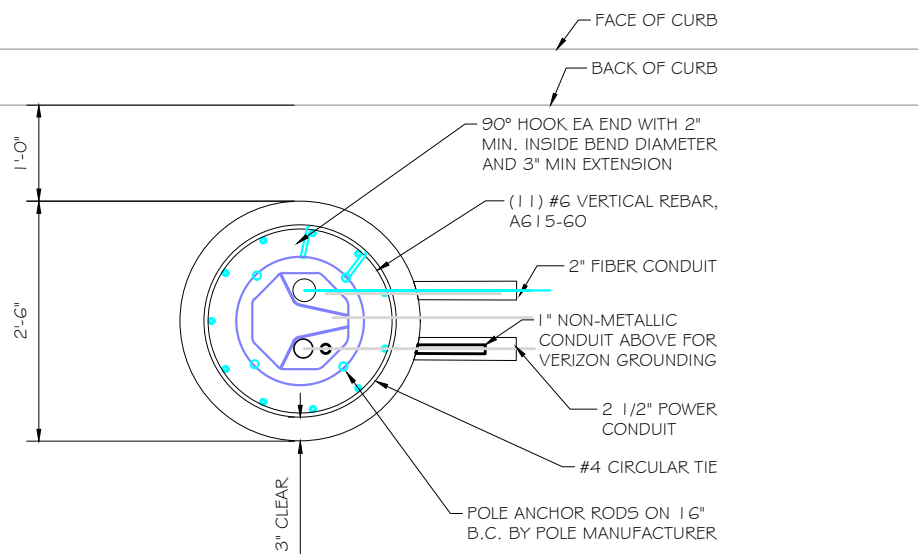


- NOTES:
1. ABOVE GROUND CLEARANCE OF PIER TO VARY PER LOCATION.
 1) CONCRETE SURROUND = 2"
 2) LANDSCAPE SURROUND = 2"
 2. VERIZON CONSTRUCTION TO PROVIDE SKELETON TEMPLATE FOR CONDUIT AND ANCHOR LOCATIONS.
 3. BASES SHALL BE EXCAVATED BY USE OF HYDROVAC EXCAVATION.
 4. BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH WISDOT SECTION 505 STEEL REINFORCEMENT
<http://wisconsin.dot.gov/rdw/stndspec/ss-05-05.pdf>

FOUNDATION DETAIL (ELEVATION) ①
 SCALE: NTS



FOUNDATION DETAIL (ISOMETRIC) ②
 SCALE: NTS



FOUNDATION DETAIL (PLAN) ③
 SCALE: NTS



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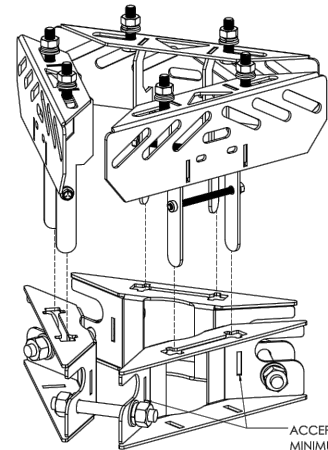
SHEET TITLE:
FOUNDATION DESIGN

SCALE: NONE

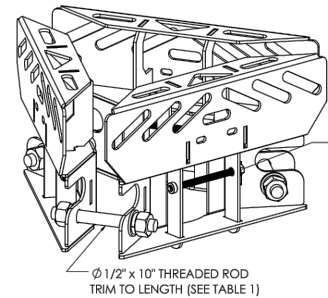
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 SHEET NUMBER: A-7

PV-CRM

CANISTER RING MOUNT



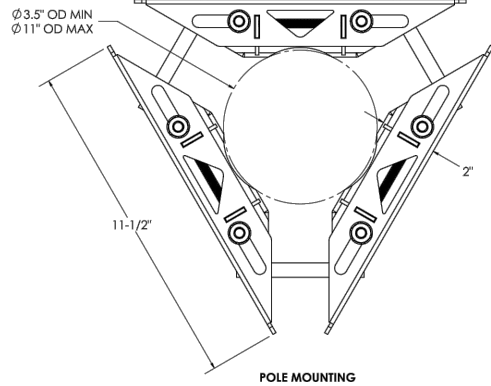
ACCEPTS 3/4" BANDING
 MINIMUM POLE OD: Ø3.5"



Ø 1/4" GR5 HEX BOLT

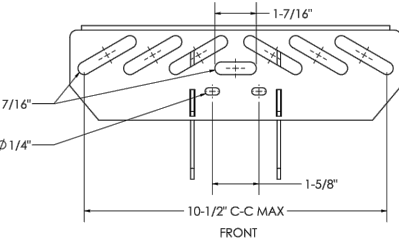
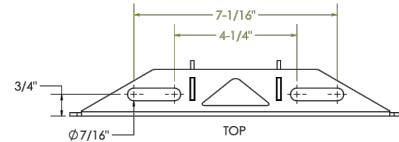
Ø 1/2" x 10" THREADED ROD
 TRIM TO LENGTH (SEE TABLE 1)

PV-CRM3511-U
CANISTER RING MOUNT
WEIGHT: 29 LBS



POLE MOUNTING

POLE OD (IN)	THREADED ROD CUT LENGTH (IN)
3.5	2.698
4	3.125
4.5	3.625
5	4.125
5.563	4.625
6.625	5.688
7.625	6.5
8.625	7.438
9.625	8.375
10.75	9.375



EQUIPMENT ATTACHMENT LOCATIONS

REV	DATE	DESCRIPTION	BY	CHKD
1	3/17/2020	DESIGN UPDATE	INT	SJS
2	10/17/18	CONCEALMENT CANISTER RING MOUNT POSITION/TOLERANCE	INT	SJS
3	11/12/18	TOP SLOT SHAPE FOR WELD CLEARANCE	INT	SJS
4	3/17/20	CHANGES FOR BANDING, UPDATE TO BRACKET PROFILE	INT	SJS

CRM-ENG-01-R4

4

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ANTENNA MOUNT DETAIL

SCALE: NTS



Stainless Steel Band, 201 Stainless Steel, Metallic, 3/4" Strapping Width

Item # 2LNT1 Mfr. Model # GRC206 Catalog Page # 2535 UNSPSC # 31162906



Web Price

\$89.50 / each

1

Add to Cart

+ Add to List

Shipping

Expected to arrive Tue, Mar 10

Ship To 53583 (Change)

Shipping Weight 4.11 lbs.

Country of Origin USA | Country of Origin is subject to change.

Note: Product availability is real-time updated and adjusted continuously. The product will be reserved for you when you complete your order. More

Technical Specs

Strapping Application	201 Stainless Steel Strapping	Color	Metallic
Strapping Width	3/4"	Material	201 Stainless Steel
Strapping Thickness	0.03"	Dispenser Box Type	Corrugated Box
Break Strength	2250 lb.	Heat Treated	No
Strapping Length	50 ft.	Carbon Level	Low Carbon
Strapping Wind	Ribbon	Mill Thickness	30
AAR Approved	No	Standards	ISO 9001, ISO 14001, IATF 16963
Rolls per Case	1 Roll		

STAINLESS STEEL BAND

SCALE: NTS



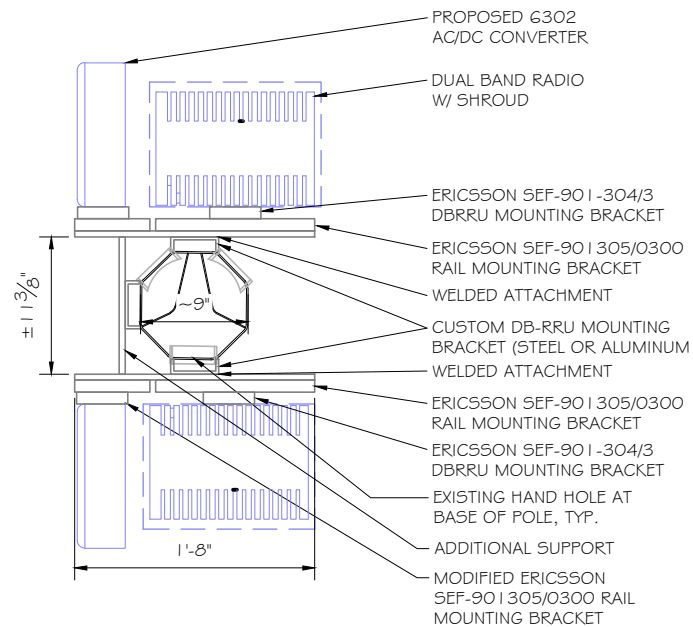
OR APPROVED EQUAL
 WIDTH = 3/4"

PAINT NOTE:

ALL PROPOSED MOUNTS, CABLES, RRUS, SHROUDS & RELATED EQUIPMENT SHALL BE PAINTED TO MATCH THE SELECTED POLE WITH RF FRIENDLY PAINT, DO NOT PAINT ANTENNAS

PAINT COLOR:

PANTONE BLACK 426C



RRUS & AC/DC CONVERTER MOUNT

SCALE: NTS



1515 WOODFIELD ROAD
 SCHAUMBURG, IL 60173



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Certification & Seal:

MARK	DATE	DESCRIPTION	INITIALS
C	04/20/21	ADDED TRAFFIC CONTROL PLAN	TWS
B	04/06/21	UPDATED METER PEDESTAL	TWS
A	02/26/21	UPDATED EQUIPMENT	TWS

ISSUE PHASE: PERMIT DATE ISSUED: 04/20/2021

PROJECT TITLE:
LA CROSSE
LA CROSSE - SC02
LOCATION #: 456164

PROJECT LOCATION:
 220 VETERANS MEMORIAL DR. E.
 LA CROSSE, WI 54601
 LA CROSSE COUNTY

SHEET TITLE:
MOUNTING DETAILS

SCALE: NONE

PROJECT NUMBER: 35220
 SHEET NUMBER: A-8

Product Specifications

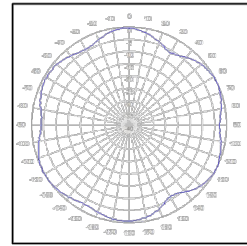
CX08OMI236-3C and -4C

NWAV™ X-Pol OMNI Antenna | Octo-Port | 2 ft | 360°



Octo-Port 2ft 360° Antenna with MET/RET-controlled HB
 (4) 698-960 MHz & (4) 1695-2700 MHz

- X-pol, small cell Octo-Port antenna
- Suitable for pole or building mount
- 4x4 MIMO low-band and 4x4 MIMO high-band
- Internal beam combining
- Dependent MET/RET control for HB ports
- Suitable for LTE/UMTS/CDMA/GSM technologies
- Cost-effective solution for neutral host locations



Omni clover



Electrical specification (minimum/maximum)	Ports 1,2,3,4		Ports 5,6,7,8				
	Frequency bands, MHz	698-798	824-960	1695-1880	1850-1990	1920-2180	2300-2500
Polarization	± 45°		± 45°				
Average gain over all tilts, dBi	3.5	3.5	9.4	9.7	9.9	10.1	10.2
Horizontal beamwidth (HBW), degrees	360°		360°				
Vertical beamwidth, (VBW), degrees ¹	73°	70°	15.7°	15.1°	14.6°	14.6°	12.2°
Electrical downtilt (EDT) range, degrees	0° (FET)		2-8° (MET/RET)				
Minimum cross polar isolation, port-to-port, dB	25	25	25	25	25	25	25
Maximum VSWR/return loss, dB	1.5:1/ -14.0		1.5:1/ -14.0				
Maximum passive intermodulation (PIM), 2x 20W carrier, dBc	-153		-153				
Maximum input power per any port, watts	250		125				

¹ Typical value over frequency and tilt

Product Specifications

CX08OMI236-3C and -4C

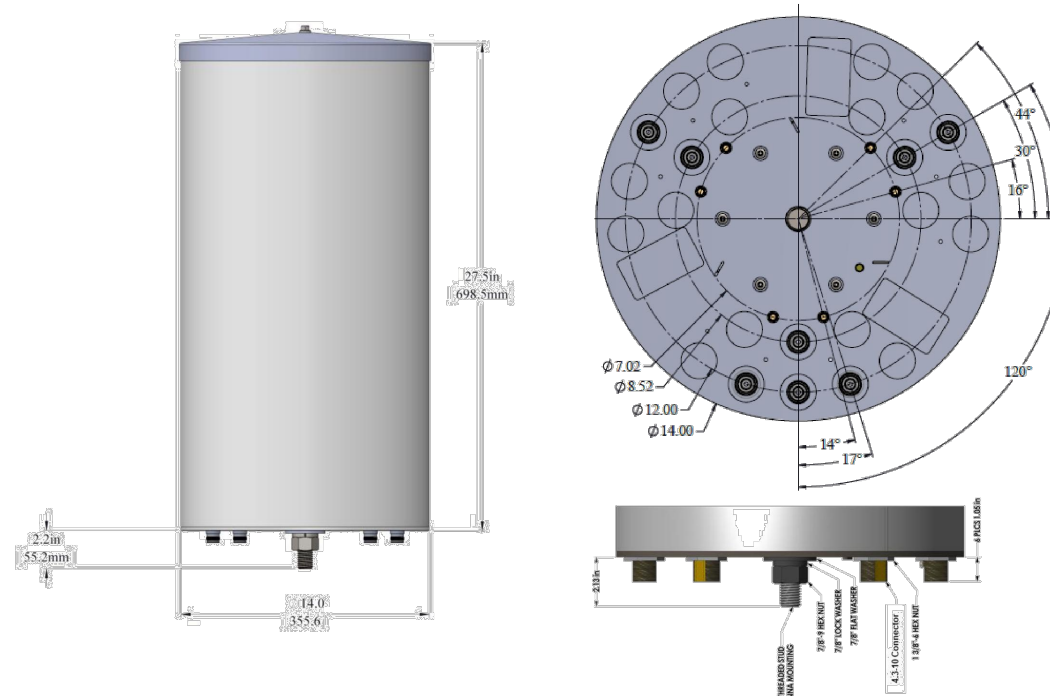
NWAV™ X-Pol OMNI Antenna | Octo-Port | 2 ft | 360°



Mechanical specifications	
Dimensions height/diameter, inches (mm)	27.5/14 (698.5/355)
No. of RF input ports, connector type & location	8 x 4.3-10 female, bottom
RF connector torque	96 lbf-in (10.85 N m or 8 lbf-ft)
Net antenna weight, lb (kg)	38.6 lb (17.5 kg)
Rated wind survival speed, mph (km/h)	150 (241)
Frontal wind loading @ 160 km/h, lbf (N)	47.6 lbf (211.5 N)
Equivalent flat plate @100 mph and Cd=2, sq ft	0.96

Front view

End view



Ordering information	
Antenna model	Description
CX08OMI236-3C	2F X-Pol OCTO OMNI 360° LB 0° FET, HB 2-8° RET, 4.3-10
CX08OMI236-4C	2F X-Pol OCTO OMNI 360° LB 0° FET, HB 2-8° MET, 4.3-10
Mounting Bracket Options	See small cell mounting bracket options http://info.jmawireless.com/ret-antenna-matrix



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 LA CROSSE COUNTY

SHEET TITLE:
 OMNI ANTENNA
 SPECIFICATIONS

SCALE: NONE

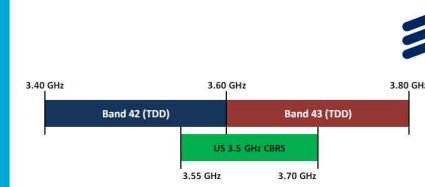
PROJECT NUMBER: 35220

SHEET NUMBER: A-10

2208 RADIO SPEC
SCALE: NTS

RADIO 2208 B48
CBRS BAND

- Frequency Band:
 - Band CBRS: 3550 to 3700 MHz
- IBW: 60MHz
- Carrier capacity: 60MHz LTE
- Output Power--2*10W
- Support 2TX/2RX
- Radio performance: FCC
- Size: 4 L
- Weight: 4 kg
- 2x10G CPRI
- Power supply: AC or DC



PRA Date Jan 2018

Commercial in confidence | 2015-04-29 | Page 34



Hinged-Cover Junction Boxes

Mild Steel: Junction Boxes

Continuous Hinge with Clamps, Type 12



- Specifications**
- 16 gauge or 14 gauge steel (see table)
 - Seams continuously welded and ground smooth
 - Continuous hinge
 - External screw clamps are quick and easy to operate
 - Bonding provision on door
 - External wall-mounting brackets
 - Oil-resistant gasket
 - Weldnuts provided for mounting optional panels and terminal block kits in size 6.00 x 4.00 in. (152 x 102 mm) and larger

Finish
ANSI 61 gray polyester powder paint inside and out

Accessories
See also Accessories.
Clamp Kits
Fast-Operating Clamp-Cover Junction Box Clamp
Lock Kit for Clamp Cover Junction Boxes
Panels for Junction Boxes
Junction Box and Wall-Mount Enclosure Swing Out Panel Kit

Modification and Customization
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

Bulletin: A51CH

Industry Standards

UL 50, 50E Listed; Type 12, 13; File No. E27567
cUL Listed per CSA 22.2 No. 94; Type 12, 13; File No. E27567
UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA 22.2 No. 94; Type 12, 13; File No. E61997

NEMA/IEC Mac Type 12 and 13
CSA, File No. 42184; Type 12
IEC 60529, IP65

Application

This easy-to-open, continuous hinge enclosure features screw-down clamps for secure closure and can be used in a wide variety of applications.

Standard Product

Catalog Number	AxBxC in./mm	Gauge	UL Listed	Panel	Conductive Panel	Panel Size DxE in./mm	Mounting GxH in./mm	Overall LxW in./mm	F in./mm	J in./mm	J.in. mm/in.	K mm/in.	P mm/in.	T mm/in.	V mm/in.	Y mm/in.
A404CH	4.00 x 4.00 x 3.00	16	S08A	No Panel	No Panel	No Panel	4.75 x 2.00	5.50 x 4.94	—	2.62	66	14	35	76	—	—
A604CH	6.00 x 4.00 x 3.00	16	S08A	A6P4	A6P4G	No Panel	4.88 x 2.88	6.75 x 2.00	7.50 x 4.94	2.53	2.62	66	14	60	76	8
A806CH	8.00 x 6.00 x 3.50	14	S0, S0E	A8P6	A8P6G	No Panel	6.75 x 4.88	8.75 x 4.00	9.50 x 6.94	3.03	3.12	79	14	25	127	6
A4044CH	4.00 x 4.00 x 4.00	16	S08A	No Panel	No Panel	No Panel	4.75 x 2.00	5.50 x 4.94	—	3.62	92	16	35	76	—	—
A6044CH	6.00 x 4.00 x 4.00	16	S08A	A6P4	A6P4G	No Panel	4.88 x 2.88	6.75 x 2.00	7.50 x 4.94	3.53	3.62	92	14	60	76	8
A8064CH	8.00 x 6.00 x 4.00	16	S0, S0E	A8P6	A8P6G	No Panel	4.88 x 4.88	6.75 x 4.00	7.50 x 6.94	3.53	3.62	92	14	60	127	8
A808CH	8.00 x 8.00 x 4.00	14	S0, S0E	A8P8	A8P8G	No Panel	6.75 x 6.88	8.75 x 6.00	9.50 x 8.94	3.53	3.62	92	14	25	178	6
A1008CH	10.00 x 8.00 x 4.00	14	S0, S0E	A10P8	A10P8G	No Panel	8.75 x 6.88	10.75 x 6.00	11.50 x 8.94	3.53	3.62	92	14	25	178	6
A1008CHS	10.00 x 8.00 x 4.00	14	S0, S0E	A10P8	A10P8G	No Panel	8.75 x 6.88	10.75 x 6.00	11.50 x 8.94	3.53	3.62	92	14	25	178	6
A1204CH	12.00 x 6.00 x 4.00	14	S0, S0E	A12P4	A12P4G	No Panel	10.75 x 4.88	12.75 x 4.00	13.50 x 6.94	3.53	3.62	92	14	25	127	6
A1210CH	12.00 x 10.00 x 5.00	14	S0, S0E	A12P10	A12P10G	No Panel	10.75 x 8.88	12.75 x 8.00	13.50 x 10.94	4.53	4.62	117	14	25	229	6
A1210CHS	12.00 x 10.00 x 5.00	14	S0, S0E	A12P10	A12P10G	No Panel	10.75 x 8.88	12.75 x 8.00	13.50 x 10.94	4.53	4.62	117	14	25	229	6
A8064CH	8.00 x 8.00 x 6.00	14	S0, S0E	A8P6	A8P6G	No Panel	6.75 x 4.88	8.75 x 4.00	9.50 x 6.94	3.53	3.62	92	14	25	178	6
A10064CH	10.00 x 8.00 x 6.00	14	S0, S0E	A10P6	A10P6G	No Panel	8.75 x 6.88	10.75 x 6.00	11.50 x 8.94	3.53	3.62	92	14	25	178	6
A10106CH	10.00 x 10.00 x 6.00	14	S0, S0E	A10P10	A10P10G	No Panel	8.75 x 8.88	10.75 x 8.00	11.50 x 10.94	4.53	4.62	117	14	25	229	6
A1212CH	12.00 x 12.00 x 6.00	14	S0, S0E	A12P12	A12P12G	No Panel	10.75 x 10.88	12.75 x 10.00	13.50 x 12.94	5.53	5.62	143	14	25	279	6
A14086CH	14.00 x 8.00 x 6.00	14	S0, S0E	A14P8	A14P8G	No Panel	12.75 x 6.88	14.75 x 6.00	15.50 x 8.94	5.53	5.62	143	14	25	178	6
A1412CH	14.00 x 12.00 x 6.00	14	S0, S0E	A14P12	A14P12G	No Panel	12.75 x 10.88	14.75 x 10.00	15.50 x 12.94	5.53	5.62	143	14	25	279	6
A1412CHS	14.00 x 12.00 x 6.00	14	S0, S0E	A14P12	A14P12G	No Panel	12.75 x 10.88	14.75 x 10.00	15.50 x 12.94	5.53	5.62	143	14	25	279	6

Subject to change without notice

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2

ERICSSON FH6389 ENCLOSURE DETAIL
SCALE: NTS

2

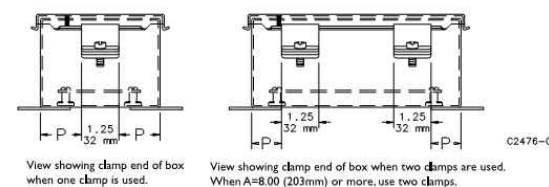
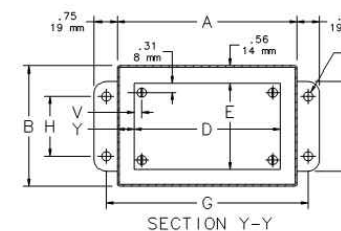
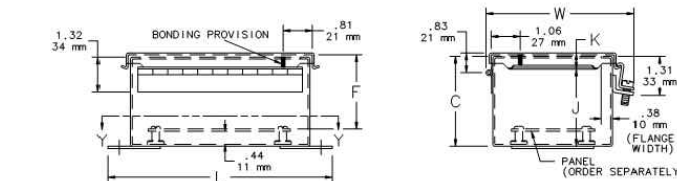


Hinged-Cover Junction Boxes

Mild Steel: Junction Boxes

Catalog Number	AxBxC in./mm	Gauge	UL Listed	Panel	Conductive Panel	Panel Size DxE in./mm	Mounting GxH in./mm	Overall LxW in./mm	F in./mm	J in./mm	J.in. mm/in.	K mm/in.	P mm/in.	T mm/in.	V mm/in.	Y mm/in.
A16106CH	16.00 x 10.00 x 6.00	14	S0, S0E	A16P10	A16P10G	14.75 x 8.88	16.75 x 8.00	17.50 x 10.94	5.53	5.62	143	14	25	229	6	16
A1614CH	16.00 x 14.00 x 6.00	14	S0, S0E	A16P14	A16P14G	14.75 x 12.88	16.75 x 12.00	17.50 x 14.94	5.53	5.62	143	14	25	330	6	16
A1614CHS	16.00 x 14.00 x 6.00	14	S0, S0E	A16P14	A16P14G	14.75 x 12.88	16.75 x 12.00	17.50 x 14.94	5.53	5.62	143	14	25	330	6	16
A12108CH	12.00 x 10.00 x 8.00	14	S0, S0E	A12P10	A12P10G	10.75 x 8.88	12.75 x 8.00	13.50 x 10.94	7.53	7.62	194	14	25	229	6	16
A14128CH	14.00 x 12.00 x 8.00	14	S0, S0E	A14P12	A14P12G	12.75 x 10.88	14.75 x 10.00	15.50 x 12.94	7.53	7.62	194	14	25	279	6	16
A16148CH	16.00 x 14.00 x 8.00	14	S0, S0E	A16P14	A16P14G	14.75 x 12.88	16.75 x 12.00	17.50 x 14.94	7.53	7.62	194	14	25	330	6	16
A161410CH	16.00 x 14.00 x 10.00	14	S0, S0E	A16P14	A16P14G	14.75 x 12.88	16.75 x 12.00	17.50 x 14.94	9.53	9.62	244	14	25	330	6	16

Catalog numbers ending in "S" are hinged on short side. Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.



View showing clamp end of box when one clamp is used. View showing clamp end of box when two clamps are used. When A=8.00 (203mm) or more, use two clamps.



1515 WOODFIELD ROAD
SCHAUMBURG, IL 60173



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Certification & Seal:

MARK	DATE	DESCRIPTION	INITIALS
C	04/20/21	ADDED TRAFFIC CONTROL PLAN	TWS
B	04/06/21	UPDATED METER PEDESTAL	TWS
A	02/26/21	UPDATED EQUIPMENT	TWS

ISSUE PHASE: PERMIT DATE ISSUED: 04/20/2021

PROJECT TITLE:

LA CROSSE
LA CROSSE - SC02
LOCATION #: 456164

PROJECT LOCATION:
220 VETERANS MEMORIAL DR. E.
LA CROSSE, WI 54601
LA CROSSE COUNTY

SHEET TITLE:
EQUIPMENT DETAILS

SCALE: NONE

PROJECT NUMBER: 35220
SHEET NUMBER: A-12

NOTE:
 ALL RF NOTICE TAGS TO BE MOUNTED
 ON STREET SIDE OF POLE

- NOTES:
- SEE RF COMPLIANCE SIGNAGE DEMARCATION FOR REQUIRED SIGNAGE FOR THIS SITE
 - THE READABLE TEMPLATE IS DESIGNED TO SMALLEST POSSIBLE SIZE. THE MINIMUM LETTER HEIGHT INCHES FOR MESSAGE TEXT .20" MINIMUM LETTER HEIGHT INCHES FOR SIGNAL TEXT .44"
 - ALL RF NOTICE TAGS TO BE MOUNTED ON STREET SIDE OF POLE, LEGIBLE AND READILY VIEWABLE AT A MINIMUM DISTANCE OF FIVE FT. (1.52M)
 - THE EXAMPLES ARE PROVIDED FOR THE ALERT VERBIAGE TEXT.
 - THESE SPECIAL SIGNS CAN USE THE 6" X 7.5"
 - TEMPLATE (HORIZONTAL OR VERTICAL) VERTICAL TEMPLATE PROVIDES AREA FOR ARROWS ON SIDES OF RF ENERGY ADVISORY SYMBOL

RF Signage Vendors (Where to Buy)
 The following chart includes website address where signage can be purchased; it is not an all-inclusive list. Signage can be bought anywhere as long as the signage is: weatherproof; the requirements above are met; and the signage matches the templates.

Vendor	Website
RSI	https://www.rsicorp.com/signage
Radhaz	http://www.radhaz.com/store.php/verizon-signs
Waterford	http://www.waterfordconsultants.com/

RF WARNING TAG NOTES ①
 SCALE: NTS



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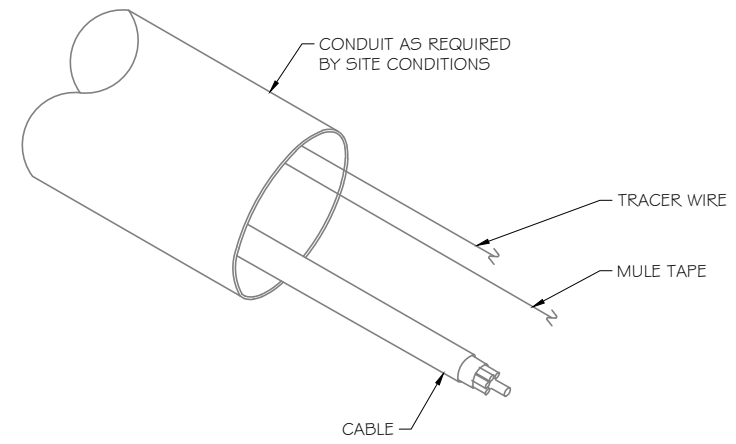
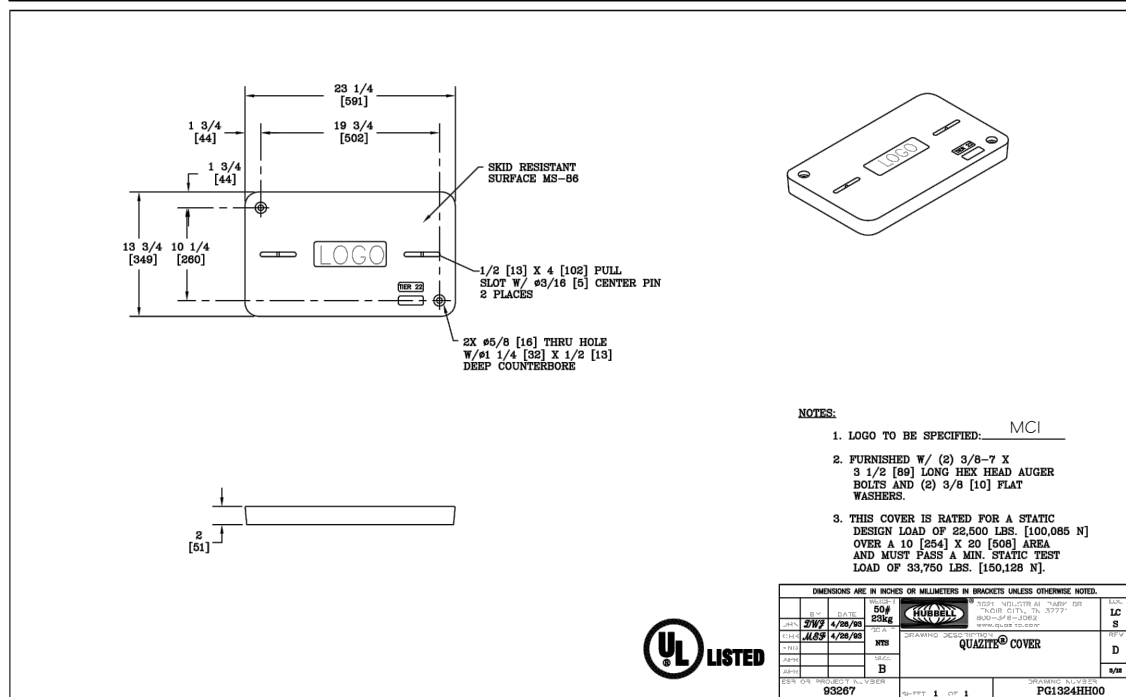
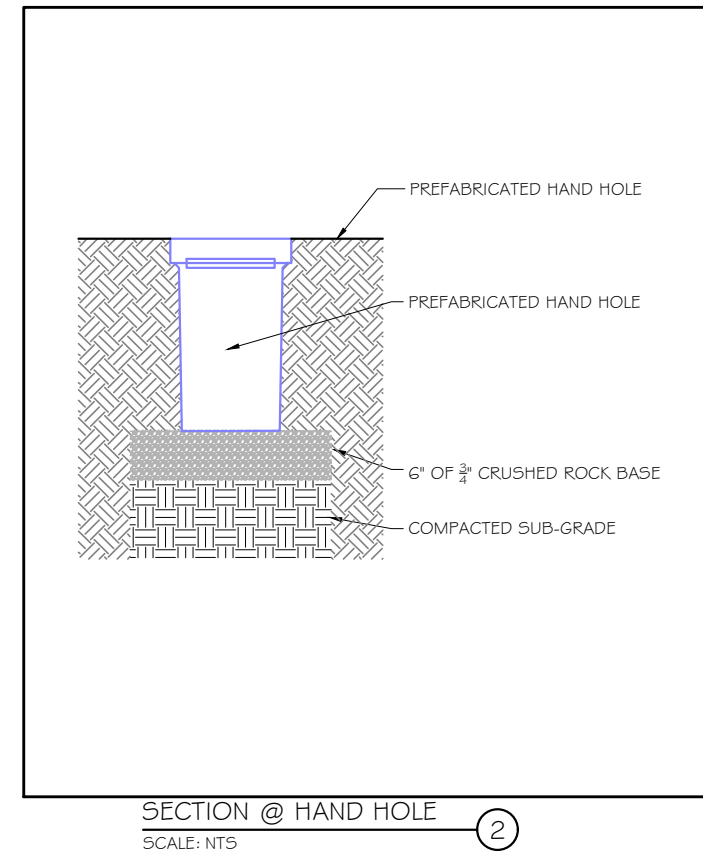
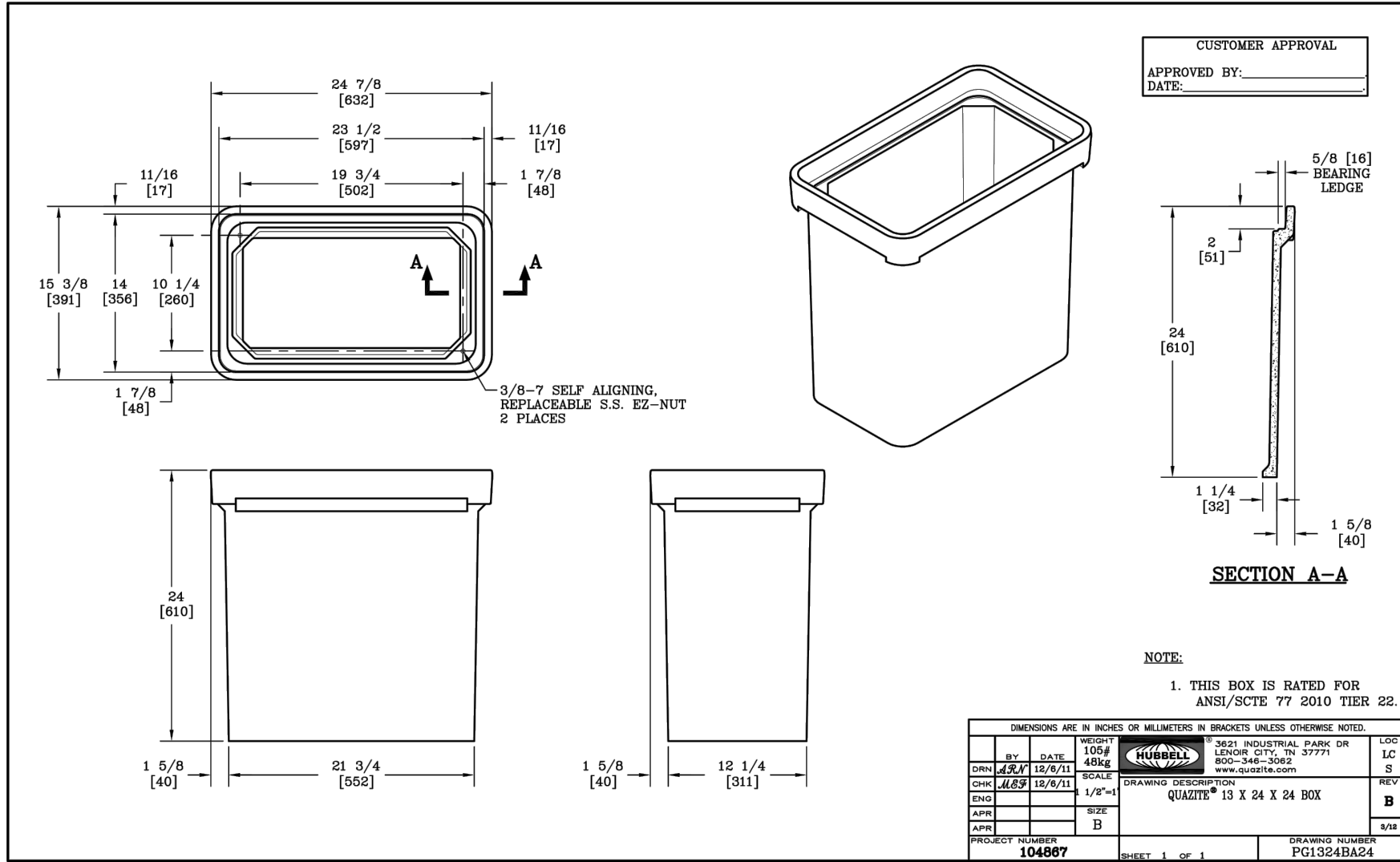
PROJECT LOCATION:
 220 VETERANS MEMORIAL DR. E.
 LA CROSSE, WI 54601
 LA CROSSE COUNTY

SHEET TITLE:
 RF WARNING TAG DETAILS

SCALE: NONE

PROJECT NUMBER: 35220

SHEET NUMBER: A-15



NOTE:
 1) TRACER WIRE TO BE PLACED IN BOTH POWER AND FIBER CONDUITS
 2) GROUND TRACER WIRE AT POLE VIA BEAM CLAMP. DO NOT BOND TRACER WIRE AT BOTH ENDS.



1515 WOODFIELD ROAD
 SCHAUMBURG, IL 60173



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LA CROSSE - SC02
LOCATION #: 456164

PROJECT LOCATION:
 220 VETERANS MEMORIAL DR. E.
 LA CROSSE, WI 54601
 LA CROSSE COUNTY

SHEET TITLE:
FIBER VAULT SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER: 35220
 SHEET NUMBER: A-16

LOAD CENTER SPECIFICATIONS					
SQUARE-D CATALOG #	MAXIMUM SYSTEM VOLTAGE	MAINS AMPERE RATING	SPACES	MAXIMUM NUMBER OF SINGLE POLE CIRCUITS	MAIN WIRE SIZE AWG AL/GU
Q0816L100RB/CU	120 / 240	100	8	16	#8-#11

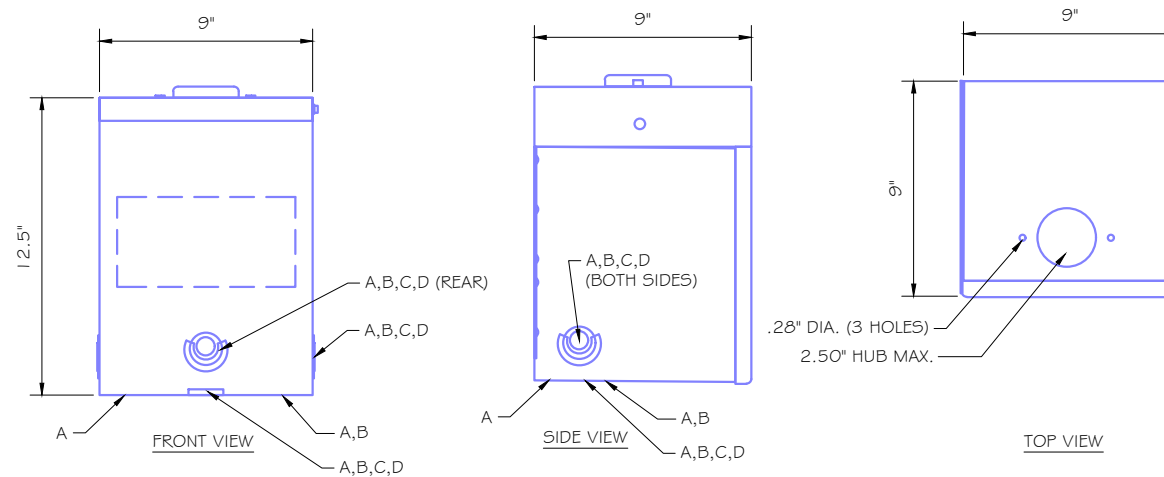
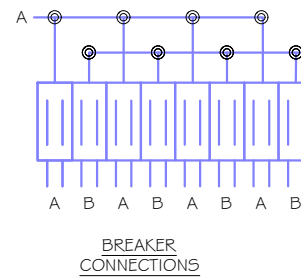
MAIN LUGS NOT USED (A# B)		100 AMP - 6/12 MAIN LUG LOAD CENTER		BOND SCREW			
<table border="1"> <tr><td>○</td></tr> <tr><td>B</td></tr> </table>		○	B	LOAD NEUTRAL(S)		SERVICE BOND #2 TO NEUTRAL BUSS	
○							
B							
		○		○			
		N		NEUTRAL			

A	B	A	B	A	B	A	B
SERVICE MAIN DISCONNECT 60A AO260		DUAL RADIO SUPPORT 15A AO115	DUAL RADIO SUPPORT 15A AO115	DUAL RADIO SUPPORT 15A AO115	SPARE	SPARE	SPARE
○	○	○	○	○	○	○	○

PK2MB	
LINE 1	LINE 2

LOAD GROUNDS

KNOCKOUTS				
SYMBOL	A	B	C	D
INCHES	.5	.75	1.0	1.25
MM	.5	.5	.5	.5



LOAD CENTER DETAIL
 SCALE: NTS



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 LA CROSSE COUNTY

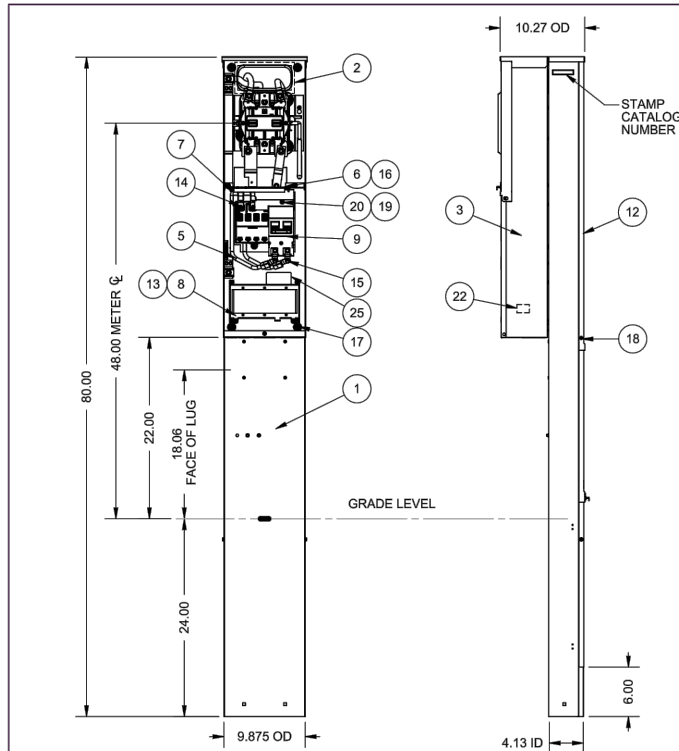
SHEET TITLE:
ELECTRICAL DETAILS

SCALE: NONE

PROJECT NUMBER: 35220
 SHEET NUMBER: E-2

Tuesday, May 26, 2020 8:36:13 AM caragonez

5701-21



ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	1113750	POST ASS'Y
2	1	1047062	GASKET
3	1	(SEE CHART)	200A RL POWER HEAD
4	1	(SEE CHART)	DEADFRONT
5	2	1109048	WIRE ASSY #2 18.00"
6	1	1109881	INSULATOR
7	1	1219096	INSULATOR
8	1	1002817	RECEPTACLE BRIDGE, 3 POS
9	1	(SEE CHART)	UQFPH CIRCUIT BREAKER
10	2	1114067	WIRE 250 kcmil AL BLK
11	1	1150629	WIRE 250 kcmil AL WHT
12	1	1113751	FRONT, BLANK 9.875 x 29.50
13	5	1047096	SCREW, 10-32 x 1/4
14	2	1002762	SCREW, 10-32 X .34
15	2	1025339	SCREW 1/4-20 x .500
16	3	1028184	PLASTIC PLUG
17	4	1046977	SCREW 1/4-20 x 1/2
18	2	1047197	RIVET, 3/16 x 1/8-1/4 GRIP
19	1	1001281	WASHER #10 FLAT
20	1	1094146	SCREW, 8-32 x 1/2
21	1	1025080	LABEL, MAIN
22	1	1025144	U.L. LABEL
23	1	1025027	LABEL, ON/OFF TRIP
24	1	1169214	LABEL, MAIN SVC. DISC.
25	1	1172873	LABEL, AMEREN
26	1	1113973	LABEL P.I.
27	1	1000158	PAD WIREMAN, 8.37 x 7.50
28	1	1216354	LABEL EMERGENCY DISCONNECT
29	1	1220597	CARTON (NOT SHOWN)

METER LABEL REQUIREMENTS:

- EACH OCCUPIED SOCKET TO BE IDENTIFIED WITH CARRIER LABEL AND POLE ADDRESS
- ELECTRICAL ARC FLASH HAZARD
- SYSTEM VOLTAGE AND PHASE (120/240 OR 120/208 SEE OLL FROM POWER SUPPLIER)

1515 WOODFIELD ROAD
 SCHAUMBURG, IL 60173

employee-owned
 (608) 643-4100 www.ramaker.com

SEE SHEET 2 FOR ADDITIONAL VIEWS, NOTES, AND CHARTS

REV.	DATE	DESCRIPTION	ECO No.	BY
I	1/28/20	ADDED 1216354	044395	CGA
J	04/07/20	ADD SHEET 2, 1219096, 1001281, AND 1094146; 1109881 WAS 1109887; REM 1047636 TO MATCH ERP	045171	SP
K	5/26/20	ADD 1220597, REMOVE 1148713 & 1152108	045437	CGA

Material: 16 GA. STEEL POWERHEAD
 14 GA. STEEL POST

Shear/Die No.: N/A

Finish: MILBANK LIGHT GRAY

Part Wt.: 93.511 LBS. EA.

Square Inches: N/A

Tolerances:
 Using Specified Dimensions
 X.X ±.1
 X.XX ±.03
 X.XXX ±.015
 X" ±.2"

Third Angle

MILBANK ENERGY AT WORK
 KANSAS CITY, MO USA
 200A 4T RGLS PEDESTAL W/ LEVER BYPASS SERIES WIRED

Title: U5701-O-(AMP)S

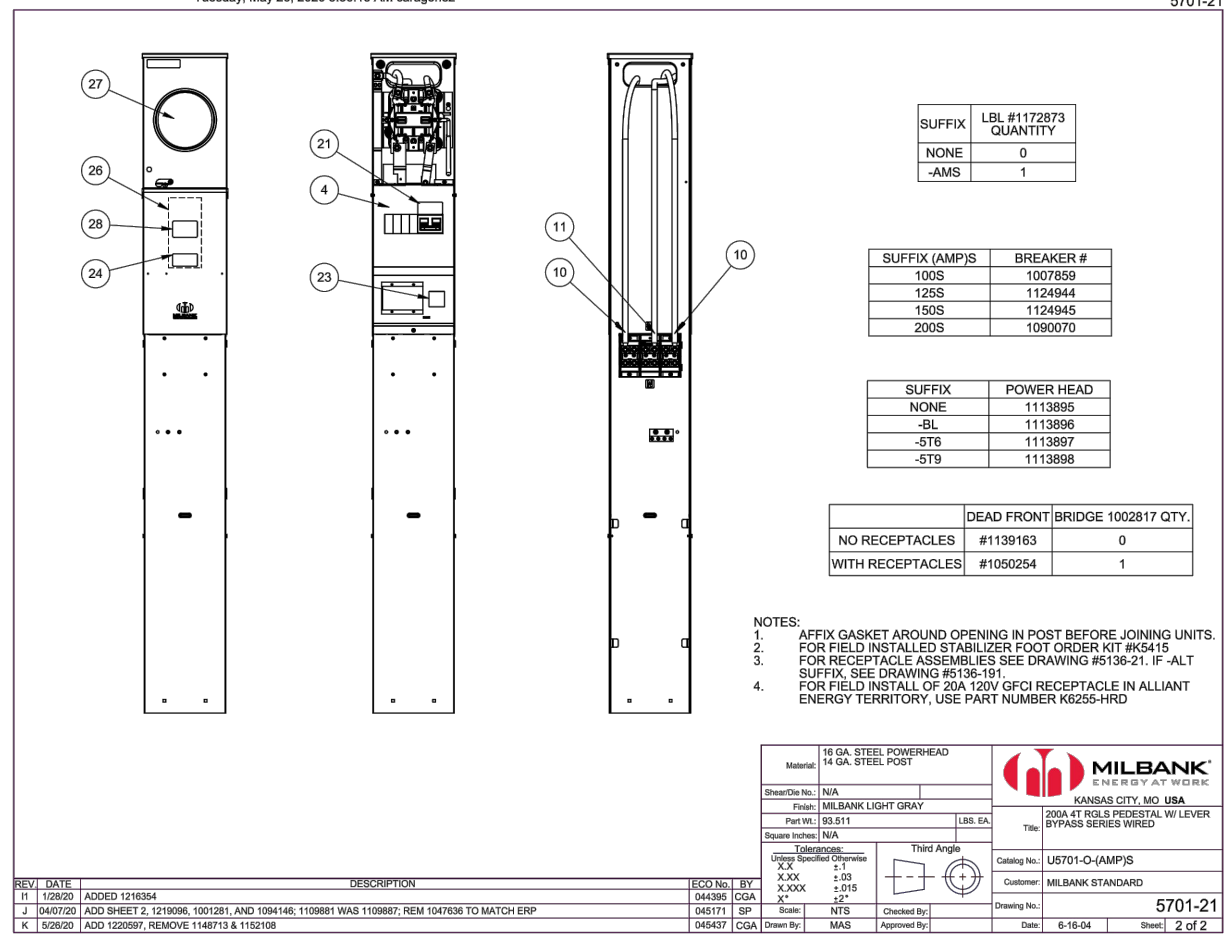
Customer: MILBANK STANDARD

Drawing No.: 5701-21

Date: 6-16-04 Sheet: 1 of 2

Tuesday, May 26, 2020 8:36:13 AM caragonez

5701-21



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Certification & Seal:

MARK	DATE	DESCRIPTION	INITIALS
C	04/20/21	ADDED TRAFFIC CONTROL PLAN	TWS
B	04/06/21	UPDATED METER PEDESTAL	TWS
A	02/26/21	UPDATED EQUIPMENT	TWS

ISSUE PHASE: PERMIT DATE ISSUED: 04/20/2021

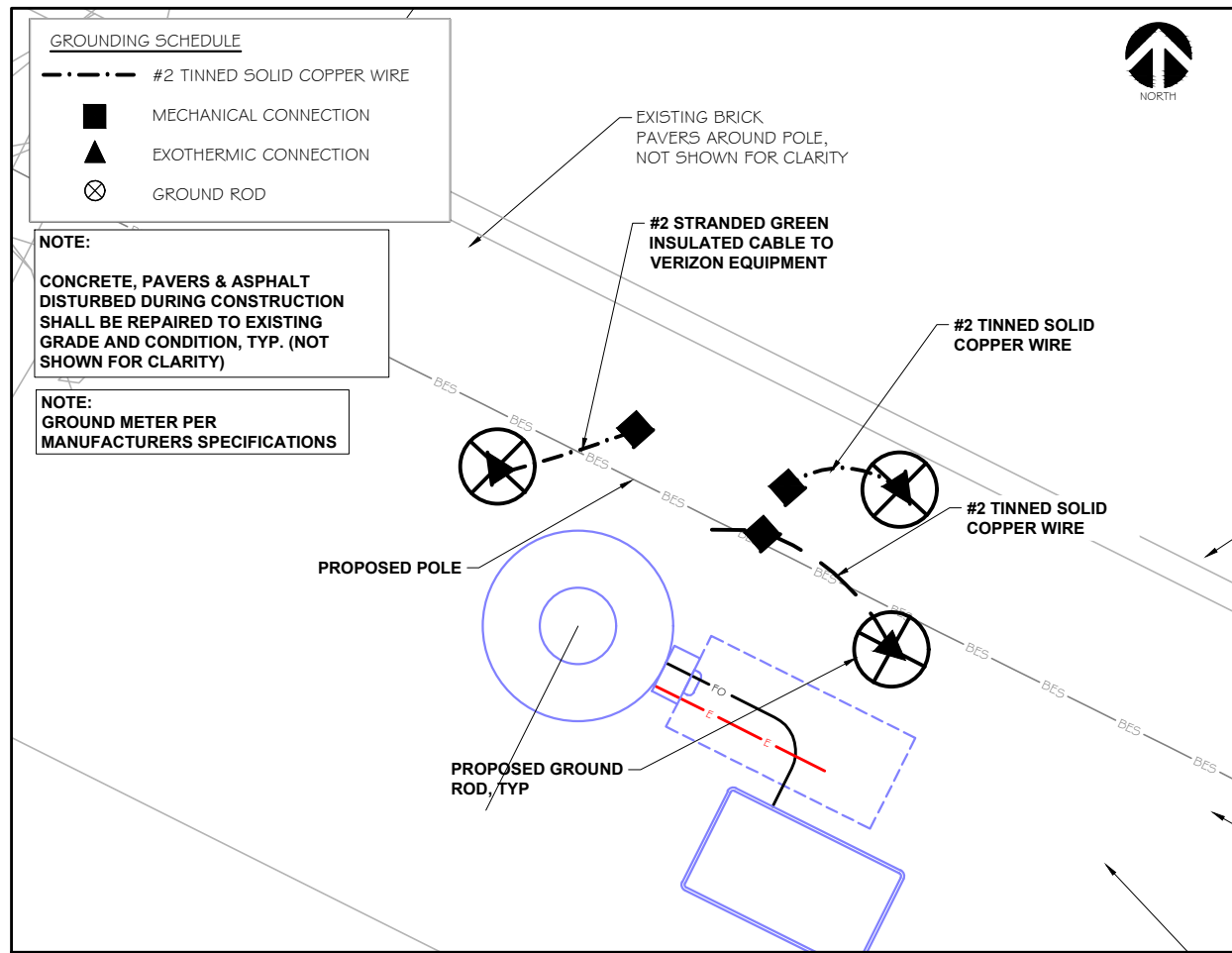
PROJECT TITLE:
LA CROSSE
LA CROSSE - SC02
LOCATION #: 456164

PROJECT LOCATION:
 220 VETERANS MEMORIAL DR. E.
 LA CROSSE, WI 54601
 LA CROSSE COUNTY

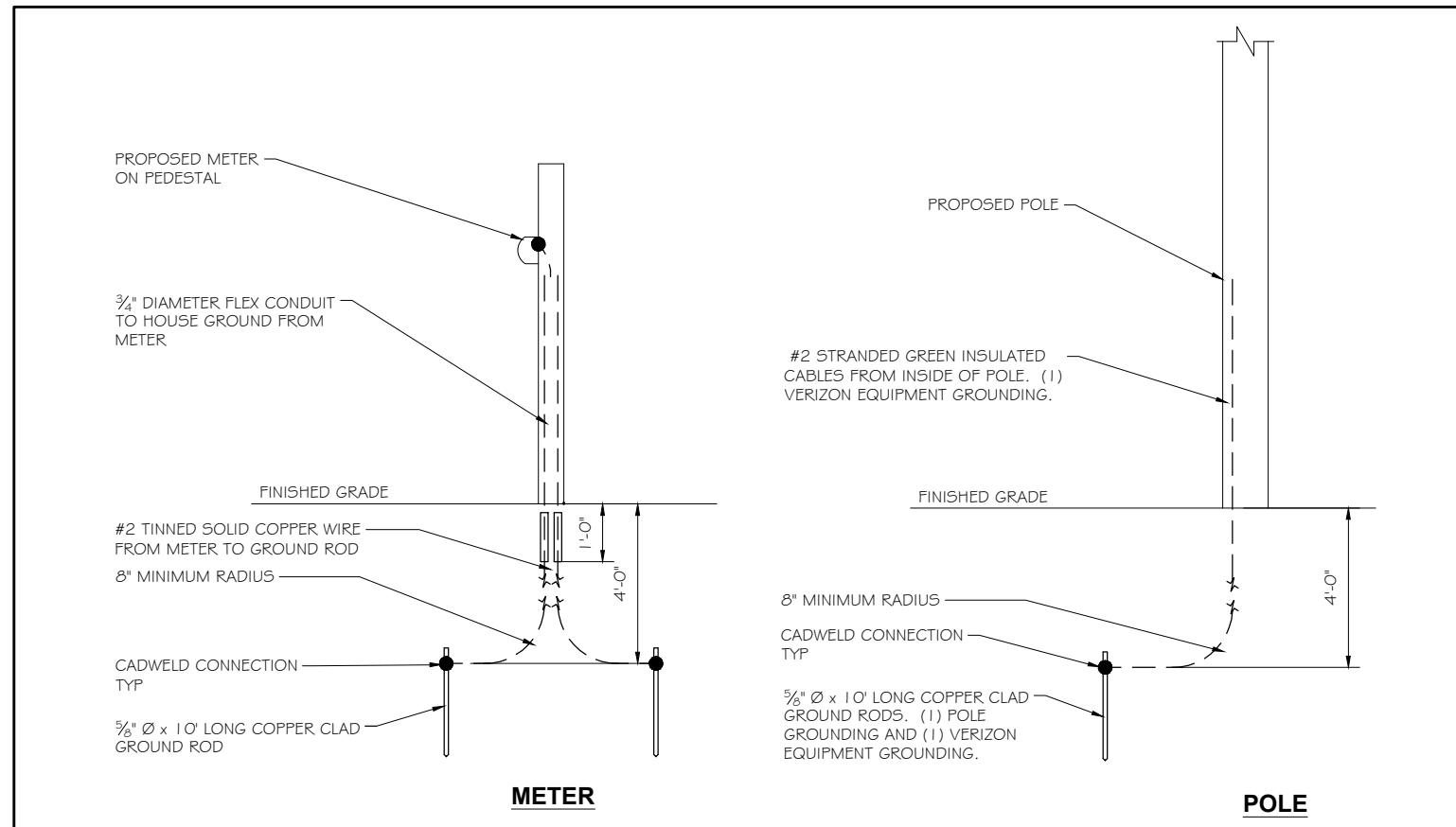
SHEET TITLE:
ELECTRICAL DETAILS

SCALE: NONE

PROJECT NUMBER: 35220
 SHEET NUMBER: E-3



GROUNDING PLAN @ POLE
 SCALE: NTS



GROUNDING DETAILS
 SCALE: NTS



1515 WOODFIELD ROAD
 SCHAUMBURG, IL 60173



RAMAKER
 employee-owned

(608) 643-4100 www.ramaker.com

Certification & Seal:

MARK	DATE	DESCRIPTION	INITIALS
C	04/20/21	ADDED TRAFFIC CONTROL PLAN	TWS
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ISSUE PHASE: PERMIT DATE ISSUED: 04/20/2021

PROJECT TITLE:

LA CROSSE
LA CROSSE - SC02
LOCATION #: 456164

PROJECT LOCATION:
 220 VETERANS MEMORIAL DR. E.
 LA CROSSE, WI 54601
 LA CROSSE COUNTY

SHEET TITLE:
GROUNDING DETAILS

SCALE: NONE

PROJECT NUMBER: 35220
 SHEET NUMBER: G-1