

ENROLLED ORDINANCE 179-10

APPROVE SECOND AMENDMENT TO LEASE AGREEMENT WITH UNITED STATES  
CELLULAR OPERATING COMPANY LLC

WHEREAS, Waukesha County owns a radio tower (the "Tower") located at the 1210 Northview Road in the City of Waukesha, Waukesha County, State of Wisconsin (the "Site"); and

WHEREAS, United States Cellular Operating Company LLC, ("USCOC") currently leases tower and ground space at the Site for operation of a cellular communications facility pursuant to that certain Tower and Ground Space Lease Agreement dated April 14, 2017, as amended by the First Amendment to Lease dated October 5, 2021 (the "Lease"); and

WHEREAS, USCOC desires to replace, modify or relocate various equipment, antennas and/or feedlines on the Tower in order to update aged equipment; and

WHEREAS, the County is willing to permit the upgrades, and otherwise amend the Lease with USCOC without requiring an increase in rent; and


WHEREAS, it is therefore necessary and desirable for the parties to execute an amendment to the Lease to formalize their agreement.

THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS that the Second Amendment to Tower and Ground Space Lease between the County and USCOC for use of the Tower and surrounding lands at the Site is hereby approved.

BE IT FURTHER ORDAINED that the Director of Emergency Preparedness or his designee is authorized to execute the Second Amendment to Lease Agreement and any other documents necessary to effectuate the intent thereof.

APPROVE SECOND AMENDMENT TO LEASE AGREEMENT WITH  
UNITED STATES CELLULAR OPERATING COMPANY LLC

Presented by:  
Judiciary & Law Enforcement Committee

  
Jacob LaFontain, Chair

  
Larry Bangs

  
Jim Batzko

  
Michael A. Crowley  
**Absent**

\_\_\_\_\_  
Jennifer Grant

  
John D. Leisemann

  
Terry Thieme

The foregoing legislation adopted by the County Board of Supervisors of Waukesha County, Wisconsin, was presented to the County Executive on:

Date: 5/31/24,   
Margaret Wartman, County Clerk

The foregoing legislation adopted by the County Board of Supervisors of Waukesha County, Wisconsin, is hereby:

Approved: X  
Vetoed: \_\_\_\_\_

Date: 5/31/2024,   
Paul Farrow, County Executive

**SECOND AMENDMENT TO TOWER AND GROUND SPACE LEASE**

This Second Amendment to Tower and Ground Space Lease (“Second Amendment”), made \_\_\_\_\_, 2024, modifies that certain Tower and Ground Space Lease dated April 14, 2017 as amended by the First Amendment to Tower and Ground Space Lease dated October 5, 2021 (collectively, the “Lease”), by and between Waukesha County, a quasi-municipal corporation, hereinafter referred to as “Landlord” and United States Cellular Operating Company LLC, a Delaware limited liability company, having an address at, Attention: Real Estate Lease Administration, 8410 West Bryn Mawr Avenue, Chicago, Illinois 60631, hereinafter referred to as “Tenant”.

WHEREAS, pursuant to the Lease, Landlord has leased to Tenant certain ground space around and attachment locations on Landlord’s tower (the “Tower”) located at 1210 Northview Road, Waukesha, Wisconsin, for the purposes of serving as a telecommunications facility (the ground space and attachment locations hereafter, the “Premises”); and,

WHEREAS, Landlord and Tenant desire to amend the Lease to document Tenant’s intended changes to Tenant’s equipment on the Premises; and

NOW THEREFORE, in consideration of the terms of the Lease and this Second Amendment and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Landlord and Tenant agree that the Lease is now modified as follows:

- I. Lease Exhibit B-1 is hereby deleted in its entirety and replaced with Exhibit B-2, a copy of which is attached and made a part hereof. Any references to Exhibit B or Exhibit B-1 are hereby changed to Exhibit B-2.
- II. Except as specifically modified herein, all other provisions of the Lease shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, Landlord and Tenant have executed this Second Amendment as of the last signature below.

LANDLORD:  
Waukesha County

TENANT:  
United States Cellular Operating Company  
LLC

By: \_\_\_\_\_

By: \_\_\_\_\_

Printed: \_\_\_\_\_

Printed: \_\_\_\_\_

Title: \_\_\_\_\_

Title: Vice President

Date: \_\_\_\_\_

Date: \_\_\_\_\_

[NOTARY PAGE TO FOLLOW]

STATE OF WISCONSIN )  
 )  
COUNTY OF WAUKESHA )

I, the undersigned, a notary public in and for the State and County aforesaid, do hereby certify that \_\_\_\_\_, known to me to be the same person whose name is subscribed to the foregoing Second Amendment to Tower and Ground Space Lease, appeared before me this day in person and acknowledged that he/she signed the said Amendment as his/her free and voluntary act for the uses and purposes therein stated.

Given under my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2024.

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

STATE OF ILLINOIS )  
 )  
COUNTY OF COOK )

I, the undersigned, a notary public in and for the State and County aforesaid, do hereby certify that \_\_\_\_\_, Vice President, known to me to be the same person whose name is subscribed to the foregoing Second Amendment to Tower and Ground Space Lease, appeared before me this day in person and acknowledged that, pursuant to his/her authority, he/she signed the said Amendment as his/her free and voluntary act on behalf of the Tenant, for the uses and purposes therein stated.

Given under my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2024.

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

**EXHIBIT B-2**

SITE: Waukesha Airport / Site #: 784305      FCC REGISTRATION # N/A  
TENANT NAME: United States Cellular Operating Company LLC / Phone 866-520-2066  
CONTACT: NOC-800-510-6091

**ANTENNA INFORMATION**

Make: Amphenol Model: TWIN658LU000G-T | Quantity: 6 Weight 98 lbs.  
Dimensions: 98.8 x 26 x 8.4  
Type of Modulation or Other Emissions: PCS/LTE/AWS      Type of Antenna: Panel  
Operating Frequency: 617-906 MHz / 1695-2700  
Mount Height 107'      | Orientation 26/30/150/267/269

Make: Ericsson Model: AIR6472      | Quantity: 3 Weight 77.2 lbs.  
Dimensions: 36.4"x16.1"x7.5"  
Type of Modulation or Other Emissions: C-Band/DoD | Type: Panel w/ integrated radio  
Operating Frequency: 3450-3490 MHz / 3920-3980 MHz  
Mount Height 107' | Orientation 30/150/270

1. Interference Suppression Equipment (specify in detail and attach specifications for any isolators, circulators, filters, intermodulation suppression panels, duplexers, etc.)  
(3) Raycap RUSDC 6267-PF-48; 19.95 lbs.; 20.56" x 18.86" x 5.83"
2. Transmission Line: Eupen; 1 1/4"; Length 200'; Quantity 3
3. Other RF Equipment:  
(3) Ericsson RRU11  
(3) Ericsson RRU4449  
(3) Ericsson RRU8843
4. Building 12' x 24'
5. Is emergency power provided by Landlord: no



**WAWKESHA AIRPORT (784305)  
WAWKESHA, WISCONSIN  
MIDBAND ADDITION DRAWINGS  
110' SELF-SUPPORT TOWER (COLO)**

**Edge**  
CONSULTANT  
150 MATTHEW STREET  
CHICAGO, IL 60601  
www.edgecs.com

**uscellular**  
410 W. BIRTS MAW AVE  
CHICAGO, IL 60601  
ENGINEER SEAL

**WISCONSIN PROFESSIONAL ENGINEERING BOARD**  
12-17-23

**TITLE SHEET**  
WAWKESHA AIRPORT (784305)  
WAWKESHA, WISCONSIN

PROPERTY OWNER: U.S. CELLULAR  
PROPERTY ADDRESS: 150 MATTHEW STREET, CHICAGO, IL 60601  
PROJECT MANAGER: ANDREW BRADLEY  
ENGINEERING COMPANY: EDGE CONSULTING ENGINEERS, INC.  
PROJECT ADDRESS: 110' SELF-SUPPORT TOWER, WAWKESHA AIRPORT, WAWKESHA, WI 53188

| NO.:  | SHEET INDEX | SHEET TITLE              |
|-------|-------------|--------------------------|
| G-001 |             | TITLE SHEET              |
| C-101 |             | SITE PLAN                |
| C-102 |             | ENLARGED SITE PLAN       |
| A-101 |             | SHELTER INTERIOR PLAN    |
| A-102 |             | BLOCK DIAGRAM            |
| T-001 |             | EQUIPMENT SPECIFICATIONS |
| T-002 |             | EQUIPMENT SPECIFICATIONS |
| T-003 |             | SITE ELEVATION           |
| T-004 |             | EXISTING ANTENNA LAYOUT  |
| T-005 |             | PROPOSED ANTENNA LAYOUT  |
| T-006 |             | INSTALLATION DETAILS     |
| T-007 |             | CABLE DETAILS            |
| T-008 |             | CABLE BANDING DETAILS    |
| V-001 |             | CABLE ROUTING            |
| P-001 |             | PLUMBING DIAGRAM         |
| E-001 |             | GROUNDING DETAILS        |

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| V-001 |             | CABLE ROUTING            |
| P-001 |             | PLUMBING DIAGRAM         |
| E-001 |             | GROUNDING DETAILS        |

**DIRECTORY**

CLIENT: U.S. CELLULAR  
150 MATTHEW STREET  
CHICAGO, IL 60601  
CONTACT: MICHELE ROTH  
ENGINEERING COMPANY: EDGE CONSULTING ENGINEERS, INC.  
150 MATTHEW STREET  
CHICAGO, IL 60601  
PROJECT MANAGER: ANDREW BRADLEY  
PRAIRIE DU SAC, WI 53078  
SITE ACQUISITION: WIRELESS PLANNING, LLC  
110' SELF-SUPPORT TOWER  
SHROTON, WI 54170  
CONTACT: JENNIFER LILLIS

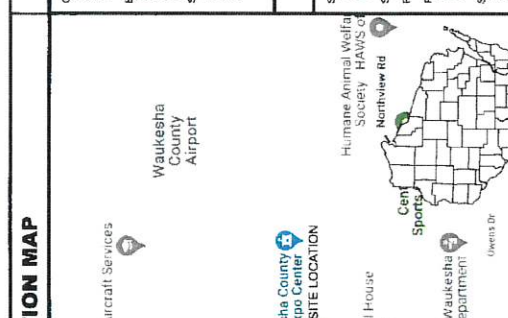
**PROJECT INFO**

SITE LOCATION: 110' SELF-SUPPORT TOWER, WAWKESHA AIRPORT, WAWKESHA, WI 53188  
FCC # 103872  
PROPERTY OWNER: U.S. CELLULAR  
150 MATTHEW STREET, CHICAGO, IL 60601  
STRUCTURE OWNER: U.S. CELLULAR  
150 MATTHEW STREET, CHICAGO, IL 60601  
SITE COORDINATES: LAT: 43.034344, LONG: -88.245887

**ONE CALL**  
SYSTEMS INTERNATIONAL

TO OBTAIN LOCATION OF PARTICIPANTS' UTILITIES, CONTACT THE ONE CALL CENTER AT 1-800-485-5844. WISCONSIN CALL DIGGERS HOTLINE: 1-800-485-5844. FAX A LOCATE: 1-800-342-5811

WEBSITE: 1-800-485-5844. REQUIREMENTS OF 3 WORK DAYS NOTICE BEFORE YOU LOCATE



**APPLICABLE CODES**

THESE SITE PLANS ADHERE TO ALL OF THE REQUIREMENTS OF THE WISCONSIN PLANNING AND ZONING FOR ANTENNAS AND SUPPORT STRUCTURE WHERE THE SITE IS LOCATED.

ALL WORK SHALL COMPLY WITH THE FOLLOWING:

- 2015 INTERNATIONAL BUILDING CODE
- 2017 NATIONAL ELECTRICAL CODE

IN THE EVENT OF CONFLICT THE MOST RESTRICTIVE CODE SHALL PREVAIL.

**SCOPE OF WORK**

| ANTENNA/EQUIP  | QTY | EQUIPMENT               | ACTION          |
|--|-----|-------------------------|-----------------|
| <b>TOWER SCOPE</b>                                     |     |                         |                 |
| <b>MIDBAND SCOPE (TO BE INSTALLED)</b>                 |     |                         |                 |
| 3  | 1   | 110' SELF-SUPPORT TOWER | TO BE INSTALLED |
| <b>MODERNIZATION SCOPE (REMAIN/RELOCATED)</b>          |     |                         |                 |
| 3  | 1   | 110' SELF-SUPPORT TOWER | TO REMAIN       |
| 2  | 1   | 110' SELF-SUPPORT TOWER | TO REMAIN       |
| 1  | 1   | 110' SELF-SUPPORT TOWER | TO REMAIN       |
| <b>COMPOUND SCOPE</b>                                  |     |                         |                 |
| 3  | 1   | 110' SELF-SUPPORT TOWER | TO BE REMOVED   |
| 6  | 1   | 110' SELF-SUPPORT TOWER | TO BE REMOVED   |
| 7  | 1   | 110' SELF-SUPPORT TOWER | TO BE REMOVED   |
| <b>SHELTER INTERIOR SCOPE</b>                          |     |                         |                 |
| <b>MODERNIZATION SCOPE (REMAIN/RELOCATED)</b>          |     |                         |                 |
| 3  | 1   | 110' SELF-SUPPORT TOWER | TO REMAIN       |
| 3  | 1   | 110' SELF-SUPPORT TOWER | TO REMAIN       |
| <b>MIDBAND SCOPE (TO BE INSTALLED)</b>                 |     |                         |                 |
| 3  | 1   | 110' SELF-SUPPORT TOWER | TO BE INSTALLED |
| <b>SPECIAL REQUIREMENTS</b>                            |     |                         |                 |
| EXISTING ANTENNA(S) IS/ARE TO BE ADJUSTED TO MATCH-RIP |     |                         |                 |

**STRUCTURAL**

INVENTORY REPORT BY EDGE CONSULTING ENGINEERS, INC. DATED: 10/14/2023  
REPORT # 38051

TOWER ANALYSIS BY EDGE CONSULTING ENGINEERS, INC. DATED: 12/05/2023  
REPORT # 38951

MODERNIZATION (EXISTING) ANALYSIS BY EDGE CONSULTING ENGINEERS, INC. DATED: 12/05/2023  
REPORT # 38051

CONCLUSION: STRUCTURALLY ADEQUATE

**Edge**  
 Consulting Engineers, Inc.  
 4000 W. WISCONSIN AVE.  
 FARMERS BRANCH, IL 60120  
 630.444.1414 FAX  
 630.444.1414 VOICE  
 www.edgeinc.com

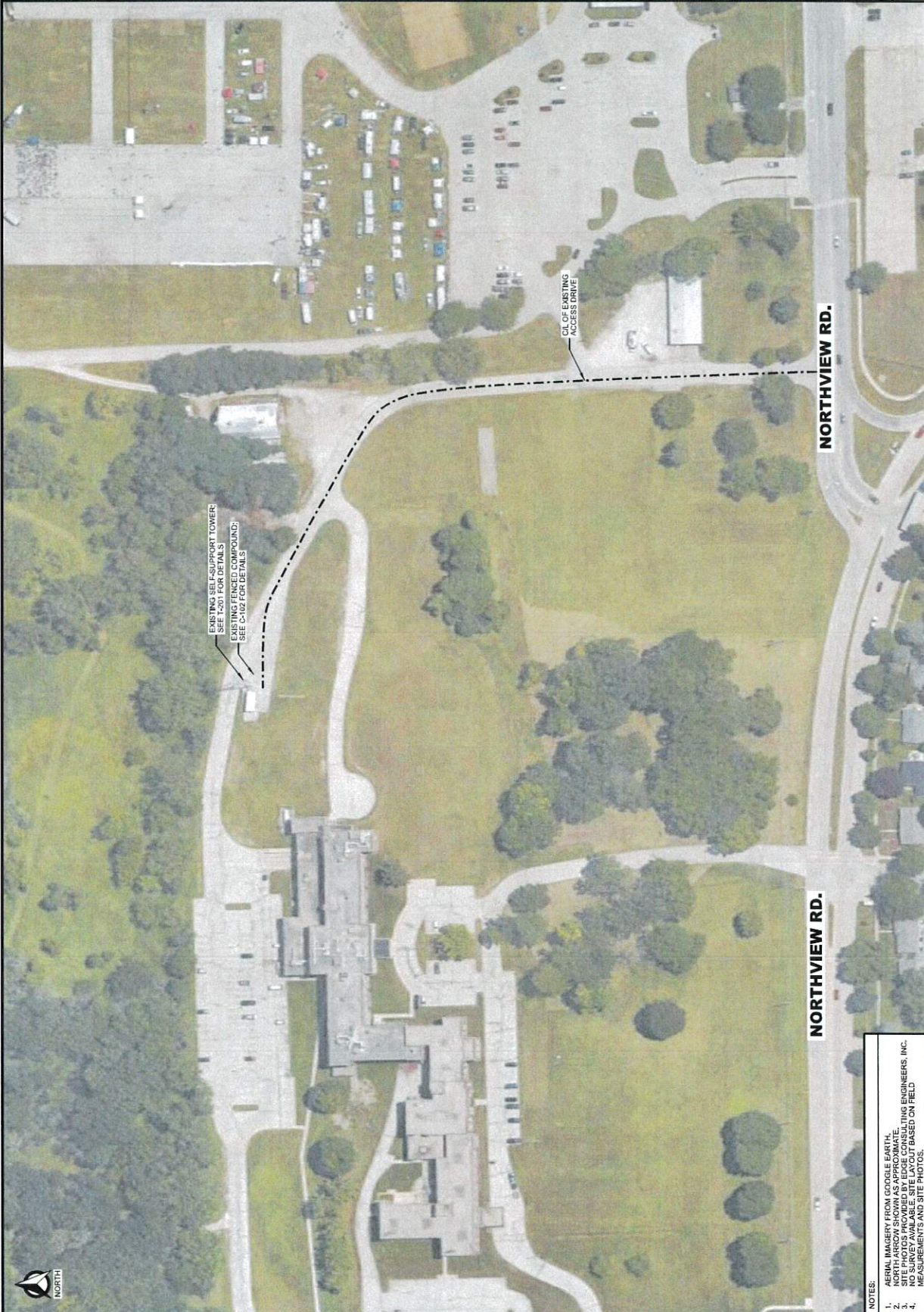
**uscellular**  
 US CELLULAR  
 8419 W. 87TH AVENUE  
 CHICAGO, IL 60631

APPROVED  
 ENGINEER  
 STATE OF WISCONSIN  
 ENGINEER NO. 12121

THIS SITE PLAN WAS PREPARED BY ME OR ANOTHER REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.

**SITE PLAN**  
**WAUKESHA AIRPORT (784305)**  
**WAUKESHA, WISCONSIN**

|                |            |
|----------------|------------|
| DATE           | 12/12/2023 |
| BY             | ASB        |
| PROJECT NUMBER | 38051      |
| SET DATE       |            |
| SET NUMBER     | FINAL      |
| BHEET NUMBER   | C-101      |



**NOTES**  
 1. AERIAL IMAGERY FROM GOOGLE EARTH.  
 2. SITE PHOTOS PROVIDED BY EDGE CONSULTING ENGINEERS, INC.  
 3. NO SURVEY AVAILABLE. SITE LAYOUT BASED ON FIELD MEASUREMENTS AND SITE PHOTOS.







**Edge**  
 Consulting Engineers, Inc.  
 104 W. WISCONSIN STREET  
 PROSPER, TEXAS 75077  
 972.344.1400 FAX  
 www.edgecorp.com

**uscellular**  
 8419 W. BENT WAY, AVE.  
 CHICAGO, IL 60631

**APPROVED**  
 FOR THE PROJECT  
 ENGINEER SEAL

I HEREBY CERTIFY THAT I AM AN  
 ENGINEER IN THE STATE OF  
 WISCONSIN AND THE EXPIRATION  
 DATE OF MY LICENSE IS 12/31/2023.  
 PROJECT NO. 179-O-009  
 PROFESSIONAL ENGINEER  
 STATE OF WISCONSIN

**WAUKESHA AIRPORT (784305)**  
**BLOCK DIAGRAM**

|          |              |             |
|----------|--------------|-------------|
| REVISION | DATE         | DESCRIPTION |
| 01       | 12/12/2023   | REV. A      |
| 02       | 12/12/2023   | REV. B      |
| 03       | 12/12/2023   | REV. C      |
| 04       | 12/12/2023   | REV. D      |
| 05       | 12/12/2023   | REV. E      |
| 06       | 12/12/2023   | REV. F      |
| 07       | 12/12/2023   | REV. G      |
| 08       | 12/12/2023   | REV. H      |
| 09       | 12/12/2023   | REV. I      |
| 10       | 12/12/2023   | REV. J      |
| 11       | 12/12/2023   | REV. K      |
| 12       | 12/12/2023   | REV. L      |
| 13       | 12/12/2023   | REV. M      |
| 14       | 12/12/2023   | REV. N      |
| 15       | 12/12/2023   | REV. O      |
| 16       | 12/12/2023   | REV. P      |
| 17       | 12/12/2023   | REV. Q      |
| 18       | 12/12/2023   | REV. R      |
| 19       | 12/12/2023   | REV. S      |
| 20       | 12/12/2023   | REV. T      |
| 21       | 12/12/2023   | REV. U      |
| 22       | 12/12/2023   | REV. V      |
| 23       | 12/12/2023   | REV. W      |
| 24       | 12/12/2023   | REV. X      |
| 25       | 12/12/2023   | REV. Y      |
| 26       | 12/12/2023   | REV. Z      |
| 27       | 12/12/2023   | REV. AA     |
| 28       | 12/12/2023   | REV. AB     |
| 29       | 12/12/2023   | REV. AC     |
| 30       | 12/12/2023   | REV. AD     |
| 31       | 12/12/2023   | REV. AE     |
| 32       | 12/12/2023   | REV. AF     |
| 33       | 12/12/2023   | REV. AG     |
| 34       | 12/12/2023   | REV. AH     |
| 35       | 12/12/2023   | REV. AI     |
| 36       | 12/12/2023   | REV. AJ     |
| 37       | 12/12/2023   | REV. AK     |
| 38       | 12/12/2023   | REV. AL     |
| 39       | 12/12/2023   | REV. AM     |
| 40       | 12/12/2023   | REV. AN     |
| 41       | 12/12/2023   | REV. AO     |
| 42       | 12/12/2023   | REV. AP     |
| 43       | 12/12/2023   | REV. AQ     |
| 44       | 12/12/2023   | REV. AR     |
| 45       | 12/12/2023   | REV. AS     |
| 46       | 12/12/2023   | REV. AT     |
| 47       | 12/12/2023   | REV. AU     |
| 48       | 12/12/2023   | REV. AV     |
| 49       | 12/12/2023   | REV. AW     |
| 50       | 12/12/2023   | REV. AX     |
| 51       | 12/12/2023   | REV. AY     |
| 52       | 12/12/2023   | REV. AZ     |
| 53       | 12/12/2023   | REV. BA     |
| 54       | 12/12/2023   | REV. BB     |
| 55       | 12/12/2023   | REV. BC     |
| 56       | 12/12/2023   | REV. BD     |
| 57       | 12/12/2023   | REV. BE     |
| 58       | 12/12/2023   | REV. BF     |
| 59       | 12/12/2023   | REV. BG     |
| 60       | 12/12/2023   | REV. BH     |
| 61       | 12/12/2023   | REV. BI     |
| 62       | 12/12/2023   | REV. BJ     |
| 63       | 12/12/2023   | REV. BK     |
| 64       | 12/12/2023   | REV. BL     |
| 65       | 12/12/2023   | REV. BM     |
| 66       | 12/12/2023   | REV. BN     |
| 67       | 12/12/2023   | REV. BO     |
| 68       | 12/12/2023   | REV. BP     |
| 69       | 12/12/2023   | REV. BQ     |
| 70       | 12/12/2023   | REV. BR     |
| 71       | 12/12/2023   | REV. BS     |
| 72       | 12/12/2023   | REV. BT     |
| 73       | 12/12/2023   | REV. BU     |
| 74       | 12/12/2023   | REV. BV     |
| 75       | 12/12/2023   | REV. BW     |
| 76       | 12/12/2023   | REV. BX     |
| 77       | 12/12/2023   | REV. BY     |
| 78       | 12/12/2023   | REV. BZ     |
| 79       | 12/12/2023   | REV. CA     |
| 80       | 12/12/2023   | REV. CB     |
| 81       | 12/12/2023   | REV. CC     |
| 82       | 12/12/2023   | REV. CD     |
| 83       | 12/12/2023   | REV. CE     |
| 84       | 12/12/2023   | REV. CF     |
| 85       | 12/12/2023   | REV. CG     |
| 86       | 12/12/2023   | REV. CH     |
| 87       | 12/12/2023   | REV. CI     |
| 88       | 12/12/2023   | REV. CJ     |
| 89       | 12/12/2023   | REV. CK     |
| 90       | 12/12/2023   | REV. CL     |
| 91       | 12/12/2023   | REV. CM     |
| 92       | 12/12/2023   | REV. CN     |
| 93       | 12/12/2023   | REV. CO     |
| 94       | 12/12/2023   | REV. CP     |
| 95       | 12/12/2023   | REV. CQ     |
| 96       | 12/12/2023   | REV. CR     |
| 97       | 12/12/2023   | REV. CS     |
| 98       | 12/12/2023   | REV. CT     |
| 99       | 12/12/2023   | REV. CU     |
| 100      | 12/12/2023   | REV. CV     |
| 101      | 12/12/2023   | REV. CW     |
| 102      | 12/12/2023   | REV. CX     |
| 103      | 12/12/2023   | REV. CY     |
| 104      | 12/12/2023   | REV. CZ     |
| 105      | 12/12/2023   | REV. DA     |
| 106      | 12/12/2023   | REV. DB     |
| 107      | 12/12/2023   | REV. DC     |
| 108      | 12/12/2023   | REV. DD     |
| 109      | 12/12/2023   | REV. DE     |
| 110      | 12/12/2023   | REV. DF     |
| 111      | 12/12/2023   | REV. DG     |
| 112      | 12/12/2023   | REV. DH     |
| 113      | 12/12/2023   | REV. DI     |
| 114      | 12/12/2023   | REV. DJ     |
| 115      | 12/12/2023   | REV. DK     |
| 116      | 12/12/2023   | REV. DL     |
| 117      | 12/12/2023   | REV. DM     |
| 118      | 12/12/2023   | REV. DN     |
| 119      | 12/12/2023   | REV. DO     |
| 120      | 12/12/2023   | REV. DP     |
| 121      | 12/12/2023   | REV. DQ     |
| 122      | 12/12/2023   | REV. DR     |
| 123      | 12/12/2023   | REV. DS     |
| 124      | 12/12/2023   | REV. DT     |
| 125      | 12/12/2023   | REV. DU     |
| 126      | 12/12/2023   | REV. DV     |
| 127      | 12/12/2023   | REV. DW     |
| 128      | 12/12/2023   | REV. DX     |
| 129      | 12/12/2023   | REV. DY     |
| 130      | 12/12/2023   | REV. DZ     |
| 131      | 12/12/2023   | REV. EA     |
| 132      | 12/12/2023   | REV. EB     |
| 133      | 12/12/2023   | REV. EC     |
| 134      | 12/12/2023   | REV. ED     |
| 135      | 12/12/2023   | REV. EE     |
| 136      | 12/12/2023   | REV. EF     |
| 137      | 12/12/2023   | REV. EG     |
| 138      | 12/12/2023   | REV. EH     |
| 139      | 12/12/2023   | REV. EI     |
| 140      | 12/12/2023   | REV. EJ     |
| 141      | 12/12/2023   | REV. EK     |
| 142      | 12/12/2023   | REV. EL     |
| 143      | 12/12/2023   | REV. EM     |
| 144      | 12/12/2023   | REV. EN     |
| 145      | 12/12/2023   | REV. EO     |
| 146      | 12/12/2023   | REV. EP     |
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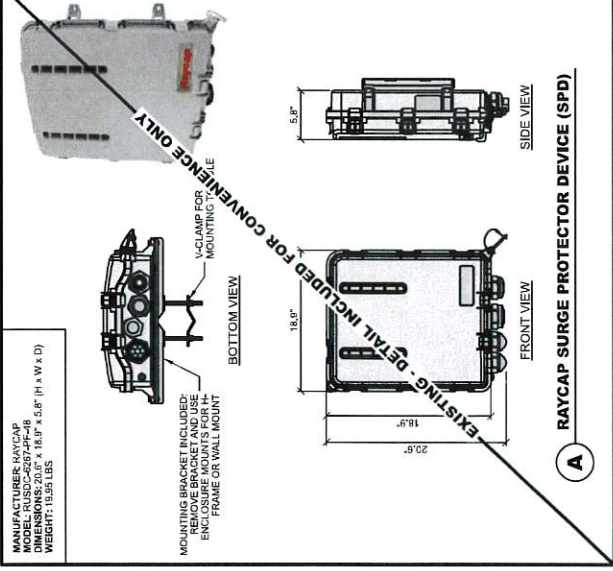
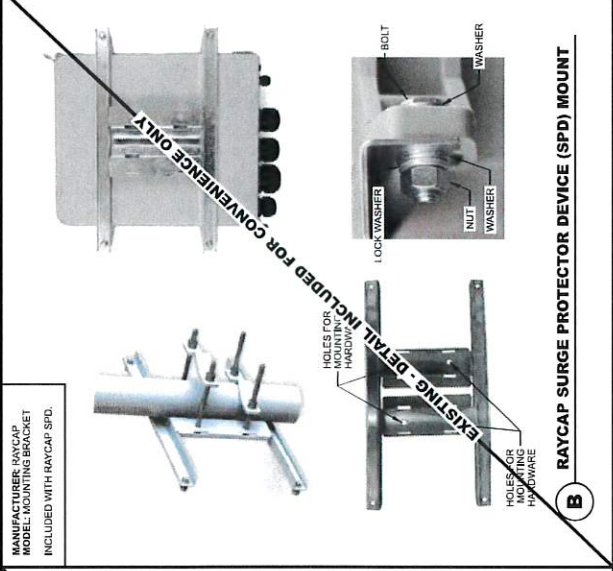
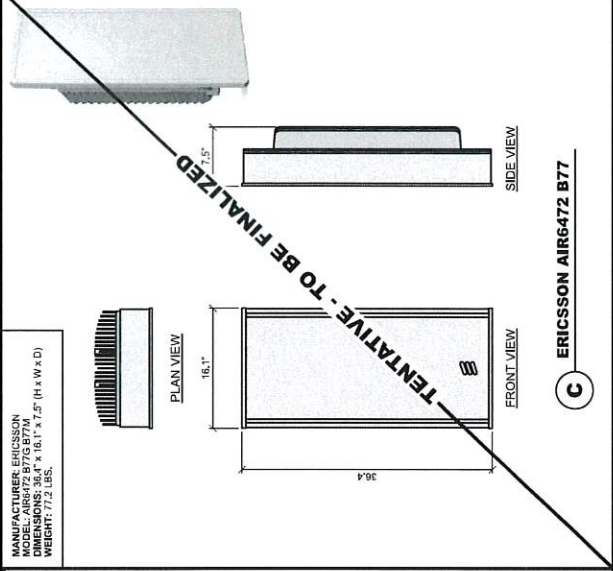
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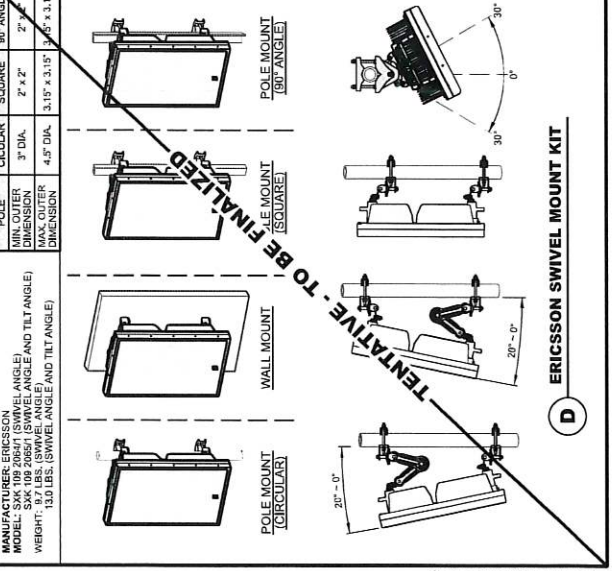
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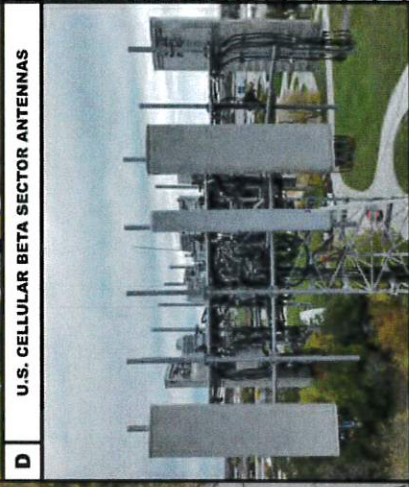
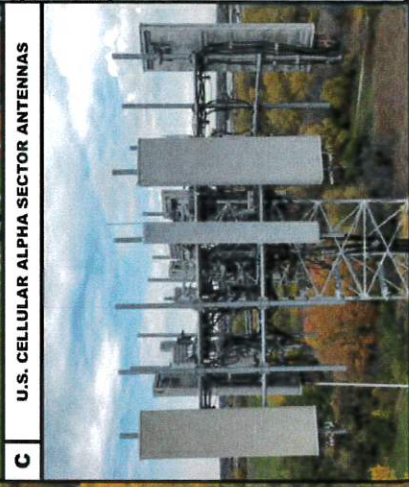
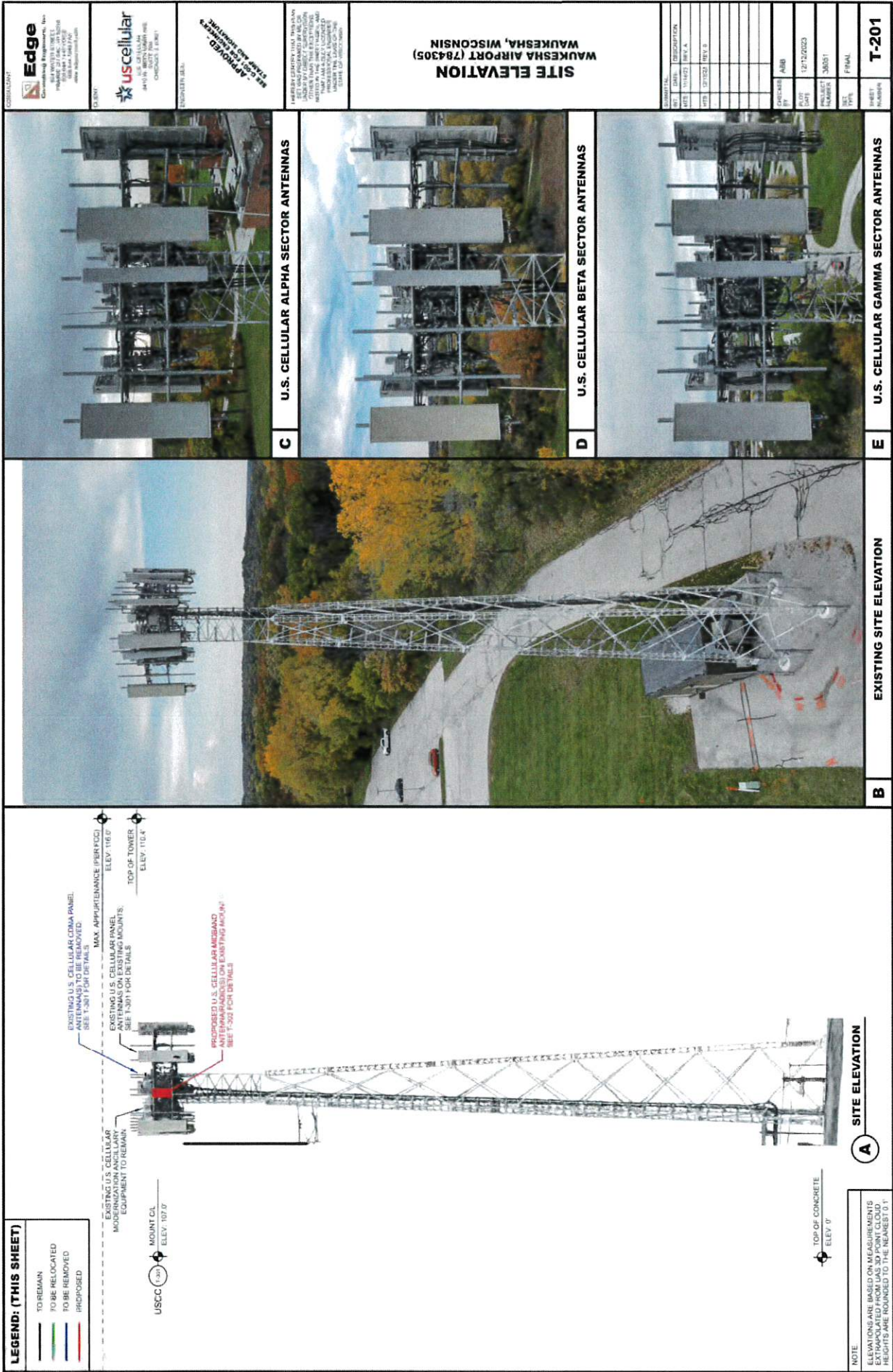
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 CHECKED BY: ABB  
 PROJECT NUMBER: 38051  
 SHEET NUMBER: T-001



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**APPROVED FOR CONSTRUCTION**  
 DATE: 05/07/24

**PROJECT INFORMATION**

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| REVISION | REV. 79  |
| DATE     | 05/07/24 |
| REVISION | REV. 80  |
| DATE     | 05/07/24 |
| REVISION | REV. 81  |
| DATE     | 05/07/24 |
| REVISION | REV. 82  |
| DATE     | 05/07/24 |
| REVISION | REV. 83  |
| DATE     | 05/07/24 |
| REVISION | REV. 84  |
| DATE     | 05/07/24 |
| REVISION | REV. 85  |
| DATE     | 05/07/24 |
| REVISION | REV. 86  |
| DATE     | 05/07/24 |
| REVISION | REV. 87  |
| DATE     | 05/07/24 |
| REVISION | REV. 88  |
| DATE     | 05/07/24 |
| REVISION | REV. 89  |
| DATE     | 05/07/24 |
| REVISION | REV. 90  |
| DATE     | 05/07/24 |
| REVISION | REV. 91  |
| DATE     | 05/07/24 |
| REVISION | REV. 92  |
| DATE     | 05/07/24 |
| REVISION | REV. 93  |
| DATE     | 05/07/24 |
| REVISION | REV. 94  |
| DATE     | 05/07/24 |
| REVISION | REV. 95  |
| DATE     | 05/07/24 |
| REVISION | REV. 96  |
| DATE     | 05/07/24 |
| REVISION | REV. 97  |
| DATE     | 05/07/24 |
| REVISION | REV. 98  |
| DATE     | 05/07/24 |
| REVISION | REV. 99  |
| DATE     | 05/07/24 |
| REVISION | REV. 100 |

**REVISIONS**

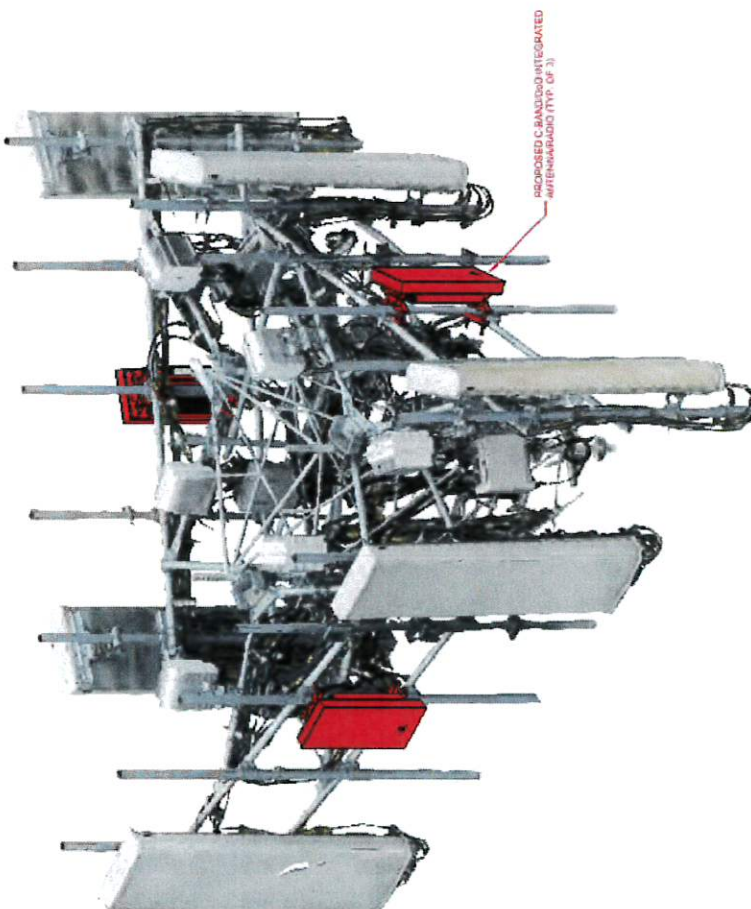
REVISION NUMBER: 38581  
 DATE: 12/22/2023  
 PROJECT NUMBER: 38581  
 SHEET NUMBER: T-201  
 SHEET TITLE: FINAL

**WAKESHA AIRPORT (784305)**  
**SITE ELEVATION**

THIS DRAWING IS THE PROPERTY OF EDGE ENGINEERING, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF EDGE ENGINEERING, INC.







**PROPOSED INSTALLATION**

| REV | DATE       | DESCRIPTION |
|-----|------------|-------------|
| 1   | 12/12/2023 | REV A       |
| 2   | 12/12/2023 | REV 0       |
| 3   | 12/12/2023 | REV 0       |
| 4   | 12/12/2023 | REV 0       |
| 5   | 12/12/2023 | REV 0       |
| 6   | 12/12/2023 | REV 0       |
| 7   | 12/12/2023 | REV 0       |
| 8   | 12/12/2023 | REV 0       |
| 9   | 12/12/2023 | REV 0       |
| 10  | 12/12/2023 | REV 0       |
| 11  | 12/12/2023 | REV 0       |
| 12  | 12/12/2023 | REV 0       |
| 13  | 12/12/2023 | REV 0       |
| 14  | 12/12/2023 | REV 0       |
| 15  | 12/12/2023 | REV 0       |
| 16  | 12/12/2023 | REV 0       |
| 17  | 12/12/2023 | REV 0       |
| 18  | 12/12/2023 | REV 0       |
| 19  | 12/12/2023 | REV 0       |
| 20  | 12/12/2023 | REV 0       |
| 21  | 12/12/2023 | REV 0       |
| 22  | 12/12/2023 | REV 0       |
| 23  | 12/12/2023 | REV 0       |
| 24  | 12/12/2023 | REV 0       |
| 25  | 12/12/2023 | REV 0       |
| 26  | 12/12/2023 | REV 0       |
| 27  | 12/12/2023 | REV 0       |
| 28  | 12/12/2023 | REV 0       |
| 29  | 12/12/2023 | REV 0       |
| 30  | 12/12/2023 | REV 0       |
| 31  | 12/12/2023 | REV 0       |
| 32  | 12/12/2023 | REV 0       |
| 33  | 12/12/2023 | REV 0       |
| 34  | 12/12/2023 | REV 0       |
| 35  | 12/12/2023 | REV 0       |
| 36  | 12/12/2023 | REV 0       |
| 37  | 12/12/2023 | REV 0       |
| 38  | 12/12/2023 | REV 0       |
| 39  | 12/12/2023 | REV 0       |
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| 48  | 12/12/2023 | REV 0       |
| 49  | 12/12/2023 | REV 0       |
| 50  | 12/12/2023 | REV 0       |

**INSTALLATION DETAILS**  
WAUKESHA AIRPORT (784305)  
WAUKESHA, WISCONSIN

**APPROVED**  
FOR CONSTRUCTION

**uscellular**  
1411 W. BETHLEHEM BLVD.  
CHICAGO, IL 60604

**Edge**  
Consulting Engineers, Inc.  
1810 W. 14TH STREET  
CHICAGO, IL 60604  
www.edgeconsulting.com

**MANUFACTURER: S&B**  
USED TO ATTACH ROUND MEMBERS PERPENDICULAR TO OTHER ROUND MEMBERS  
EACH KIT INCLUDES ONE (1) PLATE AND FOUR (4) U-BOLT ASSEMBLIES  
ASSEMBLY HARDWARE INCLUDED  
MOUNTING PIPES SOLD SEPARATELY  
SUPPLIED BY GENERAL CONTRACTOR

| PART #       | PIPE SIZE  | PIPE SIZE  | HARDWARE |
|--------------|------------|------------|----------|
| C10902021    | 1.8" O.D.  | 2.38" O.D. | 1/2"     |
| C10902011DP  | 2.38" O.D. | 2.38" O.D. | 2"       |
| C109020301DP | 2.38" O.D. | 2.38" O.D. | 5/8"     |
| C10902011DP  | 2.38" O.D. | 2.38" O.D. | 1/2"     |
| C109020000DP | 2.38" O.D. | 2.78" O.D. | 5/8"     |
| C10902011DP  | 2.38" O.D. | 3.18" O.D. | 1/2"     |
| C109020033DP | 2.38" O.D. | 2" O.D.    | 5/8"     |
| C109020044DP | 2.38" O.D. | 2" O.D.    | 5/8"     |
| C109020331DP | 2" O.D.    | 2.38" O.D. | 5/8"     |

**DETAIL INCLUDED FOR CONVENIENCE ONLY IDENTIFIED ON GDT**

**VERIFY WITH MOUNT ANALYSIS IDENTIFIED ON GDT**

**CONTRACTOR TO VERIFY PIPE SIZE AND SUITABILITY OF PROPOSED MOUNT FOR SITUATION IF AN ALTERNATIVE SOLUTION IS PROPOSED. NOTIFY ENGINEER AND OWNER PRIOR TO PROCEEDING.**

**CROSSOVER PLATE**

**B**

**THIS SPACE INTENTIONALLY LEFT BLANK**

CONSULTANT:  
**Edge**  
 COMMUNICATIONS ENGINEERS, INC.  
 104 W. WISCONSIN STREET  
 MILWAUKEE, WI 53233  
 PHONE: 414.442.2278  
 WWW.EDGECONSULTANTS.COM

CLIENT:  
**uscellular**  
 8419 W. 57TH AVENUE  
 CHICAGO, IL 60631

ENGINEER SEAL:  
**APPROVED**  
 SEE LOG FOR SIGNATURE

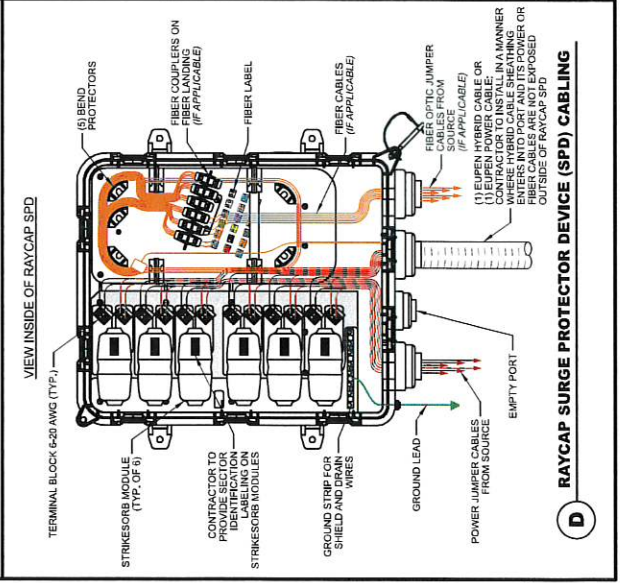
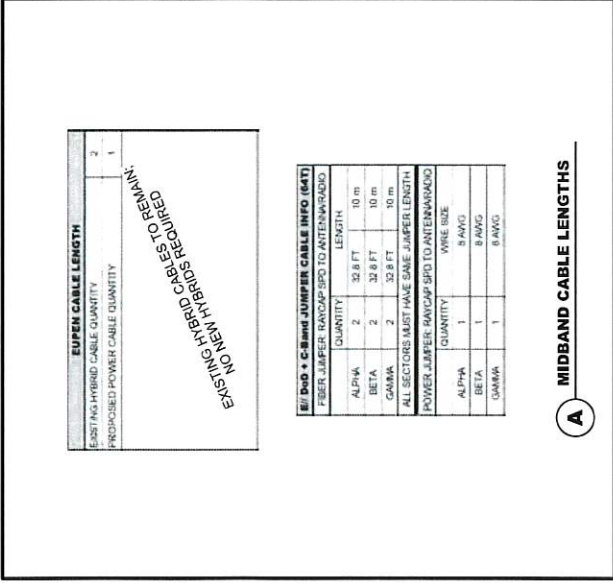
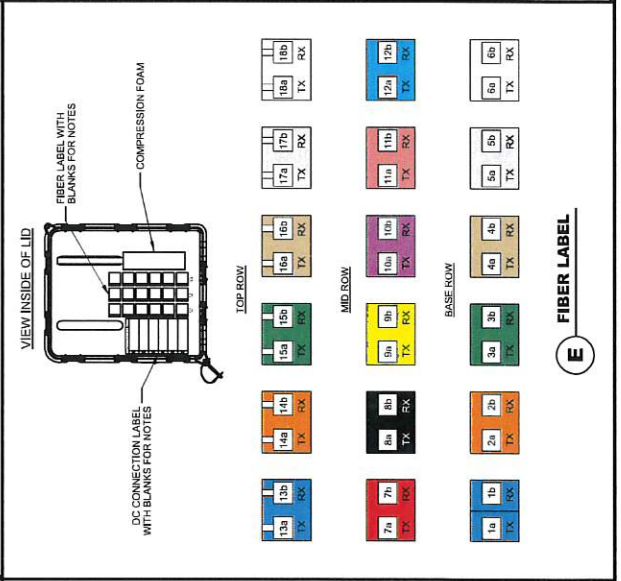
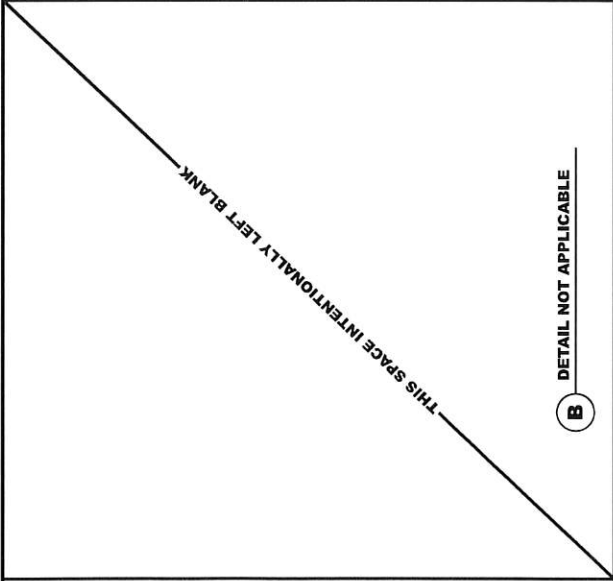
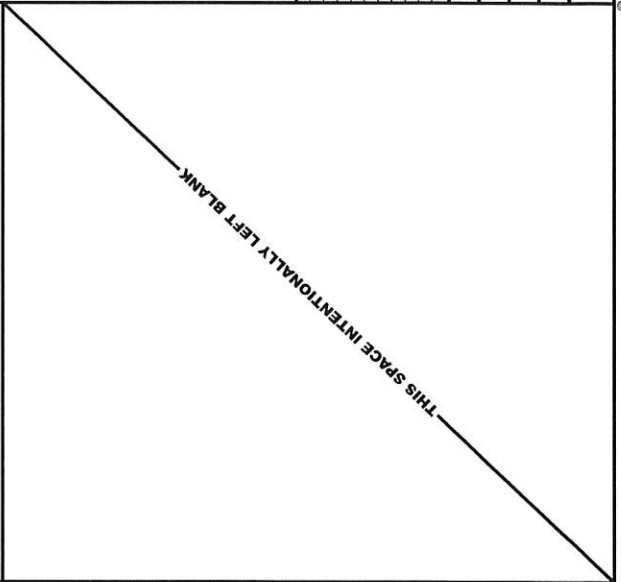
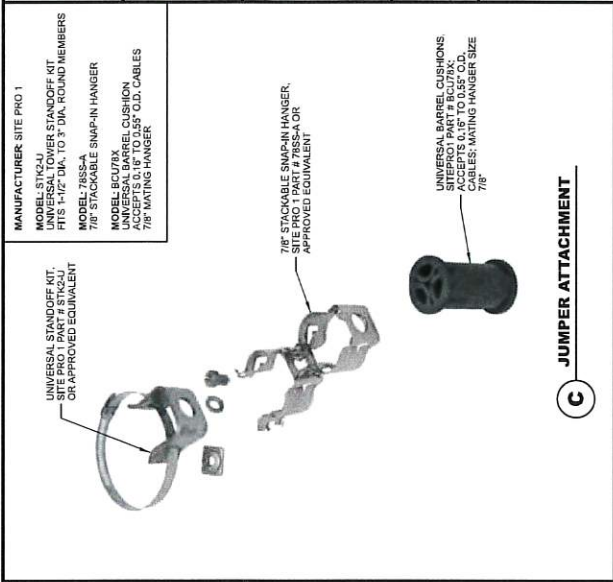
FIBER CARRY THAT THE PLAN UNDER DIRECT SUPERVISION OF THE PROJECT ENGINEER. NOTED IN THE SHEET INDEX AND PROFESSIONAL ENGINEER STATE OF WISCONSIN.

**CABLE DETAILS**  
 WAUKESHA AIRPORT (784305)

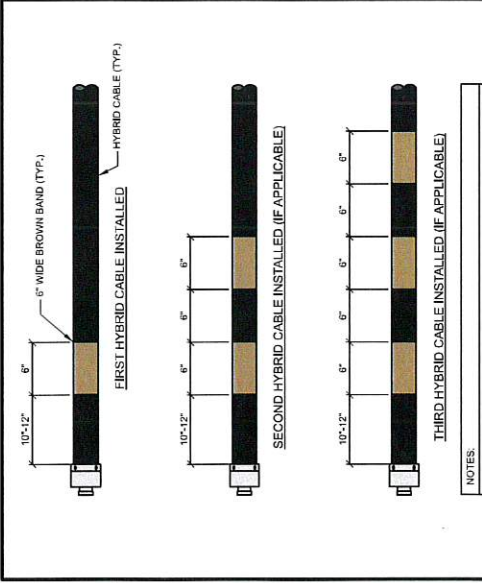
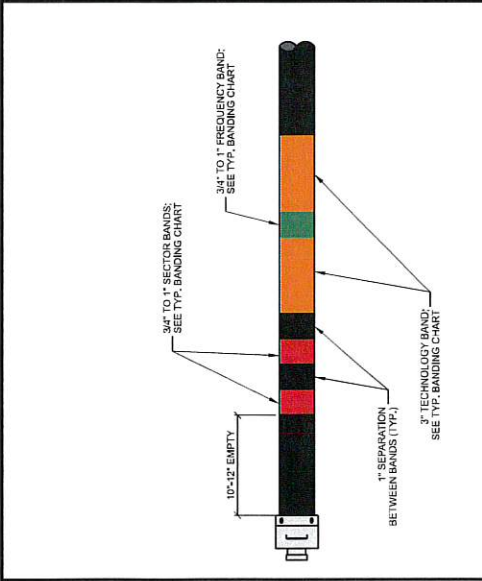
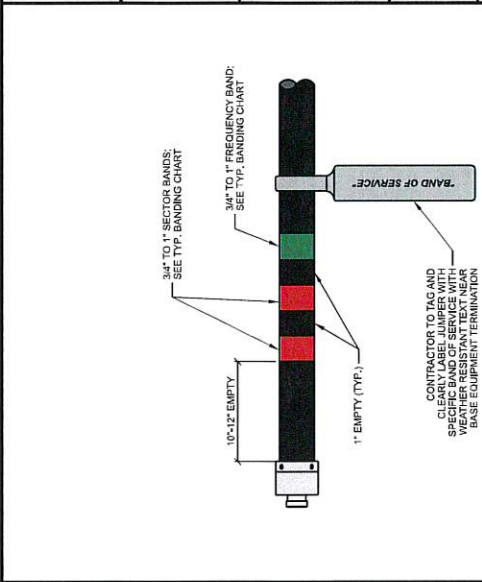
| SUBMITTAL | DATE       | DESCRIPTION |
|-----------|------------|-------------|
| REV. 1    | 12/12/2023 | REV. A      |
| REV. 2    | 12/20/23   | REV. B      |

|                |              |
|----------------|--------------|
| DESIGNED BY    | ABB          |
| DATE           | 12/12/2023   |
| PROJECT NUMBER | 38051        |
| SHEET NUMBER   | FINAL        |
| TITLE NUMBER   | <b>T-502</b> |







**F TYP. COAX COLOR CODE STANDARD**

| SECTOR                  | ASSIGNED COLOR | LINE 1 (CDMA)   | LINE 2 (LTE)     | LINE 3 (LTE)     | LINE 4 (CDMA)    |
|-------------------------|----------------|-----------------|------------------|------------------|------------------|
| ALPHA                   | RED            | (1) RED BAND    | (1) RED BAND     | (1) RED BAND     | (2) RED BANDS    |
| BETA                    | WHITE          | (1) WHITE BAND  | (2) RED BANDS    | (3) RED BANDS    | (4) RED BANDS    |
| GAMMA                   | BLUE           | (1) BLUE BAND   | (2) BLUE BANDS   | (3) BLUE BANDS   | (4) BLUE BANDS   |
| DELTA (IF APPLICABLE)   | GREEN          | (1) GREEN BAND  | (2) GREEN BANDS  | (3) GREEN BANDS  | (4) GREEN BANDS  |
| EPSILON (IF APPLICABLE) | VIOLET         | (1) VIOLET BAND | (2) VIOLET BANDS | (3) VIOLET BANDS | (4) VIOLET BANDS |
| (IF APPLICABLE)         | BROWN          | (1) BROWN BAND  | (2) BROWN BANDS  | (3) BROWN BANDS  | (4) BROWN BANDS  |

**SECTOR BAND (MOST COMMON CASE: SINGLE TECHNOLOGY WITHIN THE SECTOR)**

| SECTOR                  | ASSIGNED COLOR | LINE 1          | LINE 2           | LINE 3           | LINE 4           |
|-------------------------|----------------|-----------------|------------------|------------------|------------------|
| ALPHA                   | RED            | (1) RED BAND    | (2) RED BANDS    | (3) RED BANDS    | (4) RED BANDS    |
| BETA                    | WHITE          | (1) WHITE BAND  | (2) WHITE BANDS  | (3) WHITE BANDS  | (4) WHITE BANDS  |
| GAMMA                   | BLUE           | (1) BLUE BAND   | (2) BLUE BANDS   | (3) BLUE BANDS   | (4) BLUE BANDS   |
| DELTA (IF APPLICABLE)   | GREEN          | (1) GREEN BAND  | (2) GREEN BANDS  | (3) GREEN BANDS  | (4) GREEN BANDS  |
| EPSILON (IF APPLICABLE) | VIOLET         | (1) VIOLET BAND | (2) VIOLET BANDS | (3) VIOLET BANDS | (4) VIOLET BANDS |
| (IF APPLICABLE)         | BROWN          | (1) BROWN BAND  | (2) BROWN BANDS  | (3) BROWN BANDS  | (4) BROWN BANDS  |

**SECTOR BAND (EXCEPTION CASE: ALPHA SECTOR CDMA ON 1 & 4, LTE ON 2 & 3)**

| SECTOR | ASSIGNED COLOR | LINE 1 (CDMA) | LINE 2 (LTE) | LINE 3 (LTE)  | LINE 4 (CDMA) |
|--------|----------------|---------------|--------------|---------------|---------------|
| ALPHA  | RED            | (1) RED BAND  | (1) RED BAND | (2) RED BANDS | (2) RED BANDS |

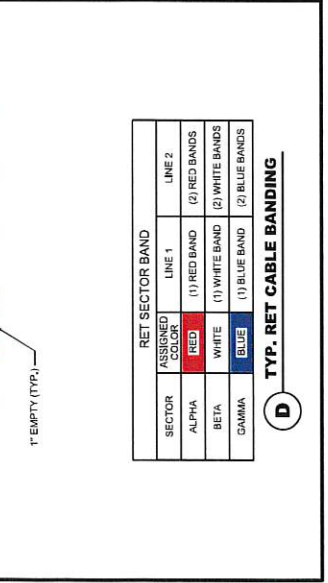
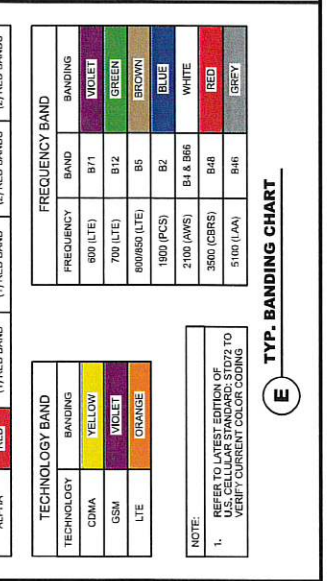
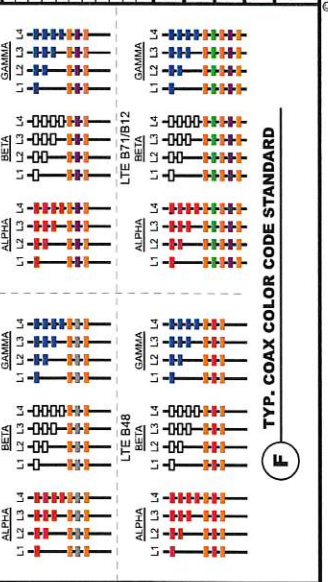
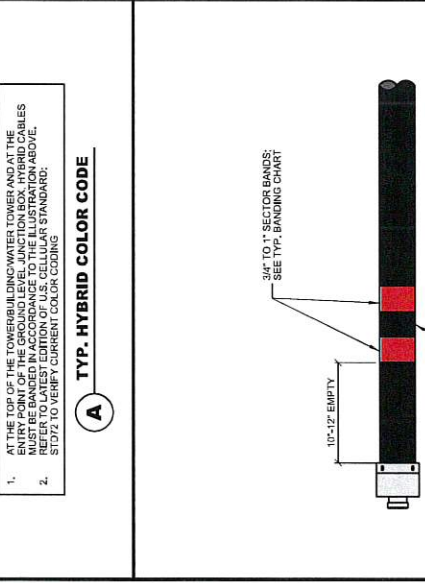
**TECHNOLOGY BANDING**

| TECHNOLOGY | BANDING |
|------------|---------|
| CDMA       | YELLOW  |
| GSM        | VIOLET  |
| LTE        | ORANGE  |

**FREQUENCY BAND**

| FREQUENCY BAND | BANDING  |
|----------------|----------|
| 800 (LTE)      | VIOLET   |
| 700 (LTE)      | B12      |
| 600/850 (LTE)  | B5       |
| 1900 (PCS)     | B2       |
| 2100 (AWS)     | B4 & B66 |
| 3500 (CBRS)    | B48      |
| 5100 (LAA)     | B48      |
|                | GREY     |

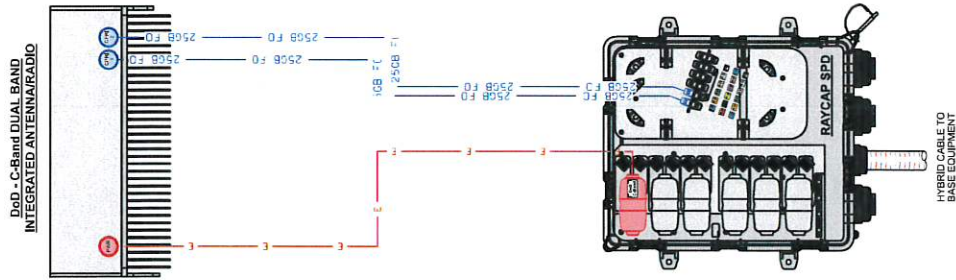
NOTE:  
 1. REFER TO LATEST EDITION OF 3GPP TS 36.101 TO VERIFY CURRENT COLOR CODING







### E// DoD 64T64R / C-Band 64T64R PER SECTOR CONFIGURATION



| CABLE LEGEND |                    |
|--------------|--------------------|
|              | ELPEN HYBRID CABLE |
|              | FIBER JUMPER       |
|              | POWER JUMPER       |

DATE CREATED: 07/25/2023

**PLUMBING DIAGRAM: DoD (64T) - C-Band (64T) E//DBR**  
CONTAINS U.S. CELLULAR® CONFIDENTIAL INFORMATION. NOT FOR EXTERNAL USE OR DISCLOSURE WITHOUT PROPER AUTHORIZATION.

- NOTES:
- ALL JUMPERS BETWEEN RADIO UNITS & ANTENNAS MUST BE THE SAME LENGTH.
  - CONTRACTOR TO INSTALL WEATHERPROOF CAP ON ALL UNUSED PORTS.

| REV | DATE       | BY  | DESCRIPTION |
|-----|------------|-----|-------------|
| 1   | 12/12/2023 | ABB | ISSUED      |

| REV | DATE       | BY  | DESCRIPTION |
|-----|------------|-----|-------------|
| 1   | 12/12/2023 | ABB | ISSUED      |

## PLUMBING DIAGRAM WAUKESHA AIRPORT (784305)

THIS DRAWING IS THE PROPERTY OF U.S. CELLULAR. IT IS TO BE USED ONLY FOR THE PROJECT AND UNDER THE DIRECT SUPERVISION OF THE PROJECT ENGINEER. ANY REVISIONS TO THIS DRAWING MUST BE APPROVED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER IS NOT RESPONSIBLE FOR ANY DAMAGE TO PROPERTY OR PERSONAL INJURY CAUSED BY THE USE OF THIS DRAWING.

APPROVED  
FOR PROJECT ENGINEER

**uscellular**  
5418 W. BURNHAM AVE.  
CHICAGO, IL 60631

**Edge**  
COMMUNICATIONS ENGINEERING, INC.  
100 W. WASHINGTON STREET  
MILWAUKEE, WI 53233  
PH: 414.441.1410  
WWW.EDGECONSULTING.COM

CONSULTANT:  
**Edge**  
 Consulting Engineers, Inc.  
 154 W. WISCONSIN STREET  
 FOND DU LAC, WISCONSIN 54601  
 PHONE: 920.924.1410 FAX: 920.924.1415  
 WWW.EDGECONSULTANTS.COM

CLIENT:  
**uscellular**  
 8410 W. BENTLEY AVENUE  
 CHICAGO, ILLINOIS 60631

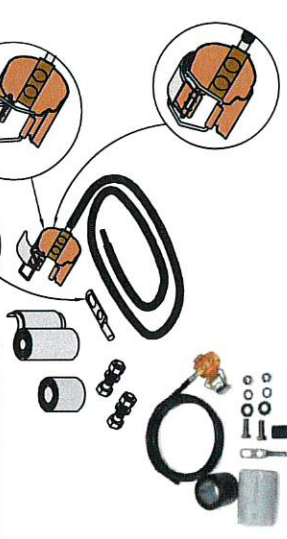
ENGINEER SEAL:  
**APPROVED**  
 FOR THE STATE OF WISCONSIN

I HEREBY CERTIFY THAT I AM AN ENGINEER LICENSED IN THE STATE OF WISCONSIN AND THAT I AM THE DESIGNER OF THIS PROJECT. I HAVE REVIEWED THE PROJECT AND I AM SURE THAT IT COMPLIES WITH ALL APPLICABLE CODES AND REGULATIONS. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THIS PROJECT. I AM A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WISCONSIN.

**GROUNDING DETAILS  
 WAUKESHA AIRPORT (784305)**

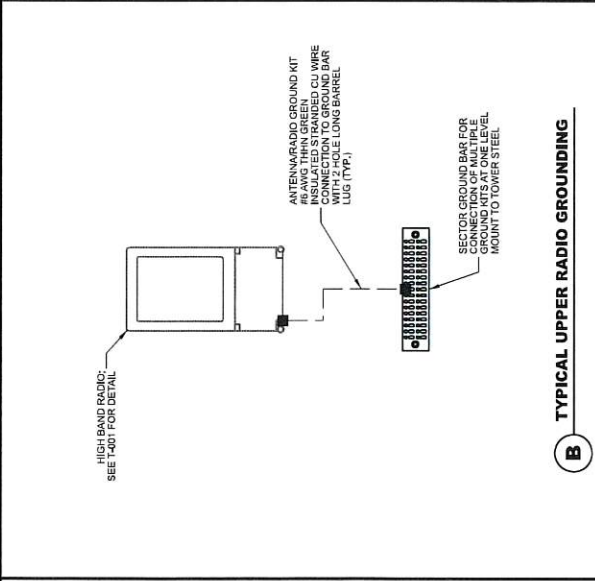
| DATE       | DESCRIPTION |
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| 12/12/23   | REV B       |
| 12/12/23   | REV C       |
| 12/12/23   | REV D       |
| 12/12/23   | REV E       |
| 12/12/23   | REV F       |
| 12/12/23   | REV G       |
| 12/12/23   | REV H       |
| 12/12/23   | REV I       |
| 12/12/23   | REV J       |
| 12/12/23   | REV K       |
| 12/12/23   | REV L       |
| 12/12/23   | REV M       |
| 12/12/23   | REV N       |
| 12/12/23   | REV O       |
| 12/12/23   | REV P       |
| 12/12/23   | REV Q       |
| 12/12/23   | REV R       |
| 12/12/23   | REV S       |
| 12/12/23   | REV T       |
| 12/12/23   | REV U       |
| 12/12/23   | REV V       |
| 12/12/23   | REV W       |
| 12/12/23   | REV X       |
| 12/12/23   | REV Y       |
| 12/12/23   | REV Z       |

MANUFACTURER SITE (AND MODEL NUMBERS (SEE TABLE BELOW)) KIT INCLUDES UNIVERSAL SLOTTED BATTERY CONNECTOR, UNIVERSAL BUTYL AND ELECTRICAL TAPE, COMPLIES WITH MIL-STD-488-13A4 AND WITH STANDS LIGHTNING STRIKES IN EXCESS OF 300KA.

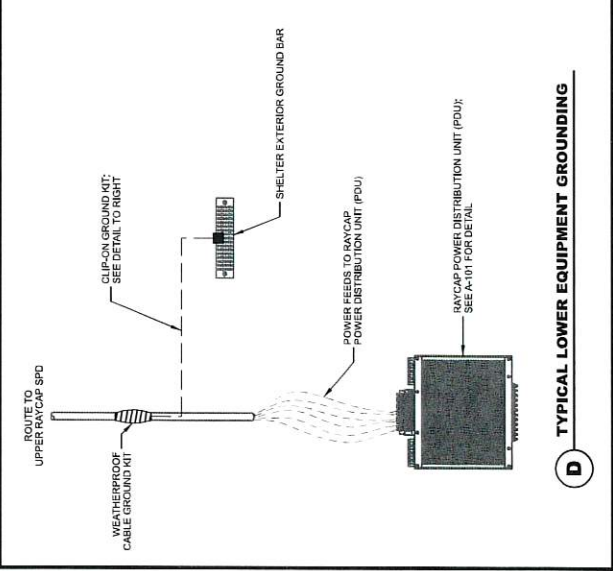
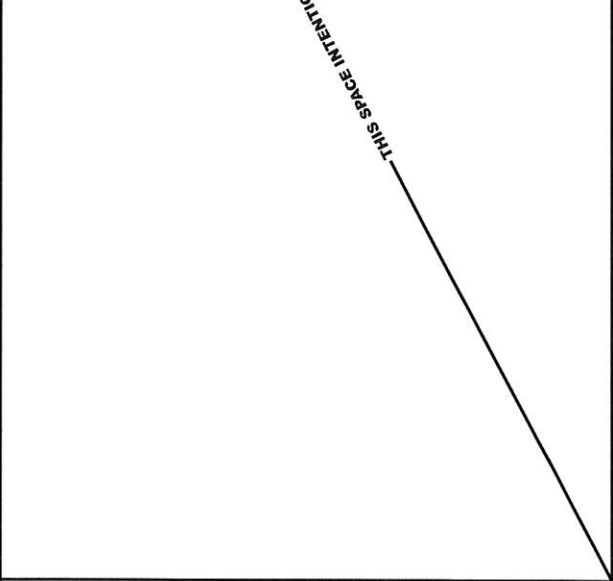
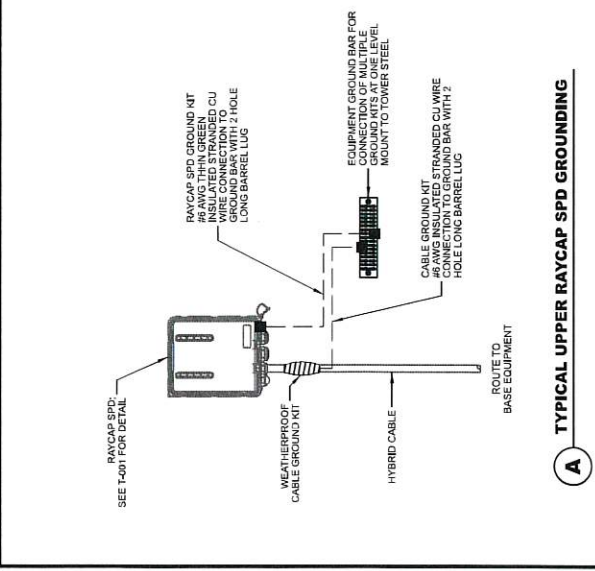


| PART #  | CABLE SIZE & TYPE | LENGTH | LUG        | WEIGHT   |
|---------|-------------------|--------|------------|----------|
| GK-C12  | 1/2" CORRUGATED   | 5'     | UNATTACHED | 1.50 LB. |
| GK-C78  | 7/8" CORRUGATED   | 5'     | UNATTACHED | 1.85 LB. |
| GK-C114 | 1-1/4" CORRUGATED | 5'     | UNATTACHED | 1.70 LB. |
| GK-C158 | 1-5/8" CORRUGATED | 5'     | UNATTACHED | 1.70 LB. |
| GK-C214 | 2-1/4" CORRUGATED | 5'     | UNATTACHED | 1.80 LB. |

**C CLIP ON GROUND KIT**



**B TYPICAL UPPER RADIO GROUNDING**



THIS SPACE INTENTIONALLY LEFT BLANK

VOTE RESULTS >

23

YES

0

NO

0

ABSTAIN

2

ABSENT

**Ordinance 179-O-009**

Ordinance 179-O-009: Approve Second Amendment To Lease Agreement With United States Cellular Operati

 **Passed By Majority Vote**

|                |          |                 |          |                   |        |
|----------------|----------|-----------------|----------|-------------------|--------|
| D1 - Styza     | AVE      | D10 - Thieme    | AVE      | D19 - Enriquez    | ABSENT |
| D2 - Euclide   | AVE      | D11 - Howard    | AVE      | D20 - Schellinger | AVE    |
| D3 - Morris    | AVE      | D12 - Wolf      | AVE      | D21 - Gaughan     | AVE    |
| D4 - Batzko    | S<br>AVE | D13 - Leisemann | AVE      | D22 - Szpara      | AVE    |
| D5 - Grant     | AVE      | D14 - Mommaerts | AVE      | D23 - Hammitt     | AVE    |
| D6 - Walz      | AVE      | D15 - Kolb      | AVE      | D24 - Bangs       | AVE    |
| D7 - LaFontain | ABSENT   | D16 - Crowley   | M<br>AVE | D25 - Johnson     | AVE    |
| D8 - Koremenos | AVE      | D17 - Meier     | AVE      |                   |        |
| D9 - Heinrich  | AVE      | D18 - Nelson    | AVE      |                   |        |

2nd Meeting, 179th Year of the County Board of Supervisors - May 28 2024 07:29:14 PM

May 28, 2024

