

ENROLLED ORDINANCE 175-94

5TH AMENDMENT TO LEASE AGREEMENT WITH NEW CINGULAR  
WIRELESS AT THE HEALTH AND HUMAN SERVICES SMOKESTACK

WHEREAS, Waukesha County owns a smokestack (the "Structure") at the Health and Human Services location, 500 Riverview Lane, the City of Waukesha, Waukesha County, State of Wisconsin (the "Site"); and

WHEREAS, New Cingular Wireless PSC, LLC ("New Cingular Wireless") currently leases space on the Structure and at the Site for operation of a cellular communications facility pursuant to a Lease Agreement dated December 1, 1998, as amended; and

WHEREAS, New Cingular Wireless desires to replace, modify or relocate various equipment, antennas and/or feedlines on the Communications Facility in order to update aged equipment; and

WHEREAS, the County is willing to permit the upgrades, and otherwise amend the Lease with New Cingular Wireless without requiring an increase in rent.

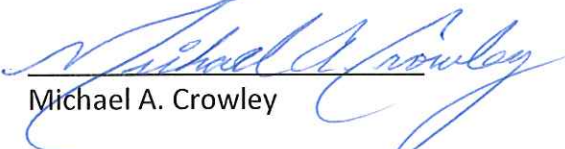
THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS that the Fifth Amendment to Lease Agreement between the County and New Cingular Wireless PSC, LLC for use of the Health and Human Services smokestack as a cellular tower and surrounding lands is hereby approved.

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

5TH AMENDMENT TO LEASE AGREEMENT WITH NEW CINGULAR  
WIRELESS AT THE HEALTH AND HUMAN SERVICES SMOKESTACK

Presented by:  
Judiciary & Law Enforcement Committee

  
Peter M. Wolff, Chair

  
Michael A. Crowley

Absent  
Tyler J. Foti

  
Christine M. Howard

  
Darlene M. Johnson

  
Jacob LaFontain

  
Larry Nelson

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

Date: 3/26/2021,   
Margaret Wartman, County Clerk

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

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

Date: 4/1/2021,   
Paul Farrow, County Executive

Market: WISIL  
Cell Site Number: WI0159  
Cell Site Name: Downtown Waukesha  
Fixed Asset Number: 10011988

## FIFTH AMENDMENT TO LEASE AGREEMENT

THIS FIFTH AMENDMENT TO LEASE AGREEMENT ("**Fifth Amendment**"), dated as of the latter of the signature dates below, is by and between Waukesha County, Wisconsin, a quasi-municipal corporation, having a mailing address of 515 W. Moreland Blvd., Waukesha, WI 53188 ("**County**") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 1025 Lenox Park Blvd NE, 3rd Floor, Atlanta, GA 30319 ("**Lessee**").

WHEREAS, County and Lessee entered into a Lease dated December 1, 1998, as amended by that certain First Amendment to Lease dated June 26, 2012, as further amended by that certain Second Amendment to Lease dated June 5, 2015, as further amended by that certain Third Amendment to Lease dated October 19, 2018, and as further amended by that certain Fourth Amendment to Lease Agreement dated June 11, 2020 whereby County leased to Lessee certain Premises, therein described, that are a portion of the Property located at 500 Riverview Avenue, Waukesha, WI 53188 for use as a cellular communications facility ("**Agreement**"); and

WHEREAS, among other things, the Agreement requires that modifications and improvements to the Communication Facility desired by Lessee that would result in additional equipment, change space requirements or change configuration, placement or number of antennas or feedlines are subject to the County's prior approval, and may result in demand for increased rent or other modification of Agreement terms; and

WHEREAS, Lessee desires to change, modify or relocate various equipment, antennas and/or feedlines on the Communication Facility, which the County is willing to approve so long as the Agreement is otherwise amended as required hereby, and;

WHEREAS, County and Lessee, in their mutual interest, wish to amend the Agreement as set forth below accordingly.

NOW THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, County and Lessee agree to amend the Agreement as follows:

**1. Additional Equipment Modification.** County consents to the installation and operation of the additional antennas, associated cables and equipment described on the attached Exhibit B-3 (the "Additional Equipment"). County's execution of this Fifth Amendment will signify County's approval of Exhibit B-3. Exhibit B-3 hereby replaces Exhibit B-2 to the Agreement.

2. **Other Terms and Conditions Remain.** In the event of any inconsistencies between the Agreement and this Fifth Amendment, the terms of this Fifth Amendment shall control. Except as expressly set forth in this Fifth Amendment, the Agreement otherwise is unmodified and remains in full force and effect. Each reference in the Agreement to itself shall be deemed also to refer to this Fifth Amendment.

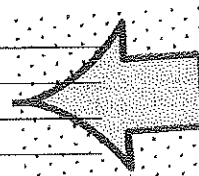
3. **Capitalized Terms.** All capitalized terms used but not defined herein shall have the same meanings as defined in the Agreement.

IN WITNESS WHEREOF, the parties have caused their properly authorized representatives to execute and seal this Fifth Amendment on the dates set forth below.

**“COUNTY”**

Waukesha County, Wisconsin, a quasi-municipal corporation

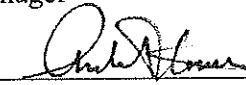
By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



**SIGN  
HERE**

**“LESSEE”**

New Cingular Wireless PCS, LLC, a Delaware limited liability company  
By: AT&T Mobility Corporation  
Its: Manager

By:   
Name: Andrew T. Flowers  
Title: Sr Real Estate & Construction Manager  
Date: 1/11/2021

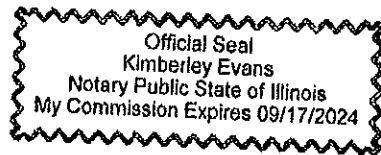
**[ACKNOWLEDGEMENTS APPEAR ON NEXT PAGE]**

LESSEE ACKNOWLEDGEMENT

STATE OF ILLINOIS  
COUNTY OF DuPage

On the 11 day of JAN in the year 2021 before me, the undersigned, personally appeared Andrew T. Flowers, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

*Kimberley Evans*  
Notary Public  
Printed Name: Kimberley Evans



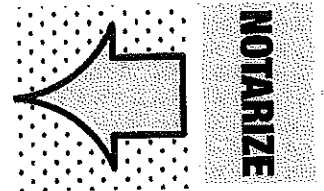
My Commission Expires: 9-17-2024

COUNTY ACKNOWLEDGEMENT

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On the \_\_\_\_ day of \_\_\_\_\_ in the year \_\_\_\_\_ before me, the undersigned, personally appeared \_\_\_\_\_, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

\_\_\_\_\_  
Notary Public  
Printed Name: \_\_\_\_\_  
My Commission Expires: \_\_\_\_\_







04/00/20

PROJECT: MOHAMED, R.E.  
 PROJECT NO.: 175-O-094

DATE: 04/00/20

DESCRIPTION: NETWORK SOLUTIONS PROJECT

CONSTRUCTION: 0

REVISIONS:

NO. DESCRIPTION

DATE

BY

DATE

BY

DATE

BY

DATE

BY

DATE

BY

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BY

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DATE

BY

PREPARED FOR:

AT&T

PREPARED BY:

Mastec

Network Solutions

500 RIVERVIEW AVENUE

WALKESHA, WI 53188

TEL: 262.338.1111

FAX: 262.338.1111

SITE ID:

WI0159

SITE NAME:

DOWNTOWN WALKESHA

SITE ADDRESS:

500 RIVERVIEW AVENUE

WALKESHA, WI 53188

FA LOCATION:

10011988

TOWER OWNER ID:

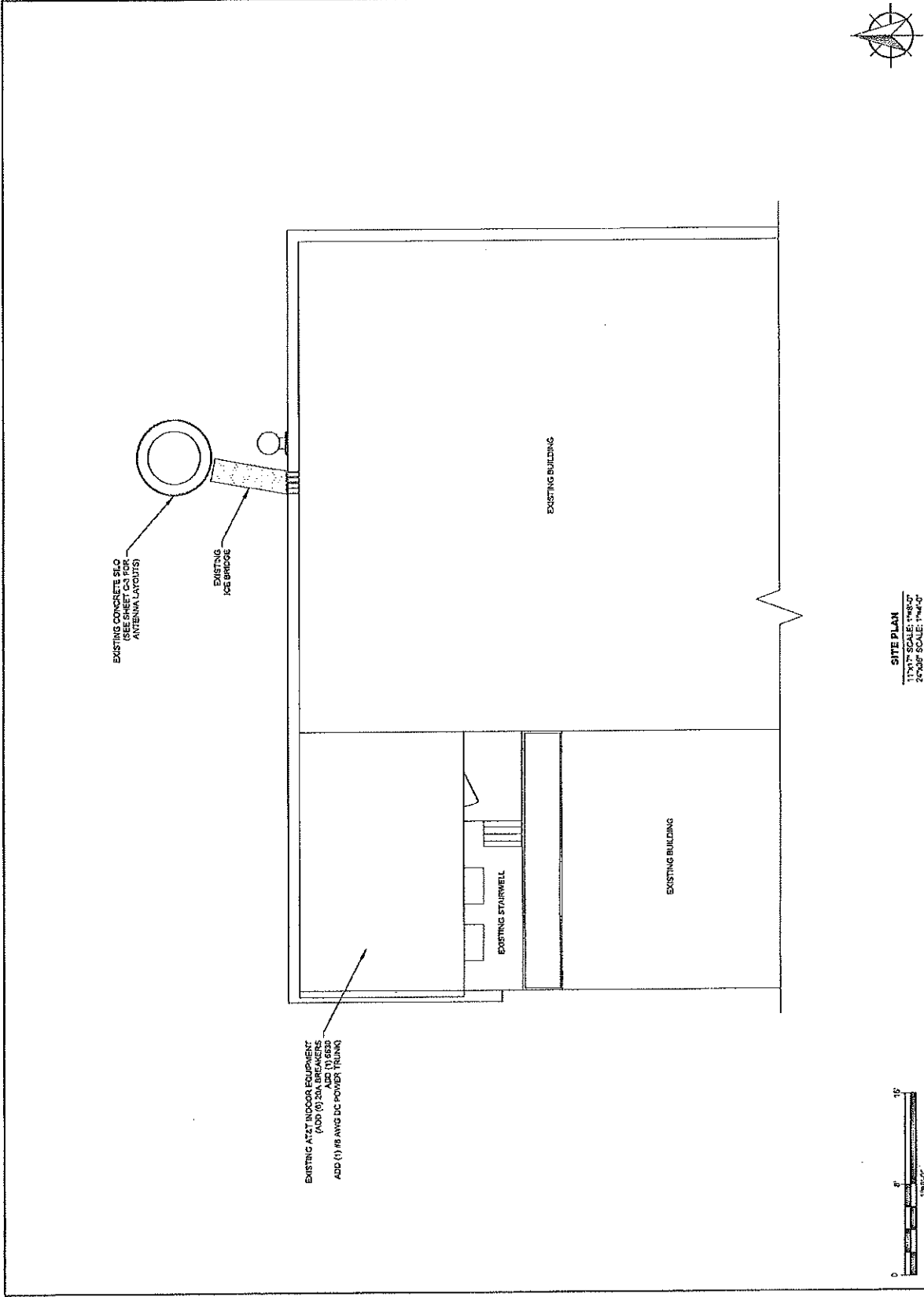
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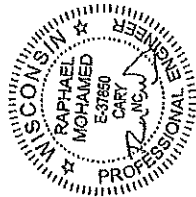
SHEET TITLE

SITE PLAN

SHEET NUMBER

C-1





04/03/20

RAPHAEI MOHAMED, P.E.  
CONSTRUCTION ENGINEER

SUBMITTALS	
DATE	DESCRIPTION
04/03/20	REVISED BY: [blank]
	CONSTRUCTION [blank]
	REVISION [blank]

DESIGN BY:	MAY
DESIGNED BY:	JR
APPROVED BY:	RM
DATE:	04/03/20
PROJECT NO.:	210159

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PREPARED FOR:



PREPARED BY:  
**Mastec**  
Network Solutions  
500 RIVERVIEW AVENUE  
WAUKESHA, WI 53186  
TEL: 262.546.2100  
FAX: 262.546.2111

SITE ID:  
**W10159**

SITE NAME:  
**DOWNTOWN WAUKESHA**

SITE ADDRESS:  
**500 RIVERVIEW AVENUE  
WAUKESHA, WI 53186**

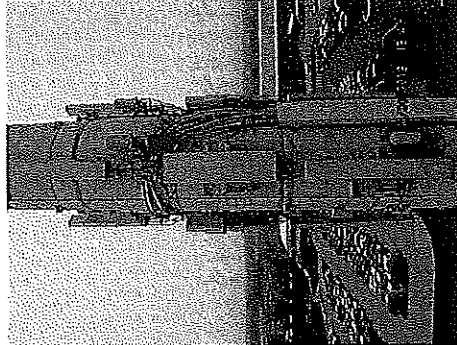
FA LOCATION:  
**10011988**

TOWER OWNER ID:  
**N/A**

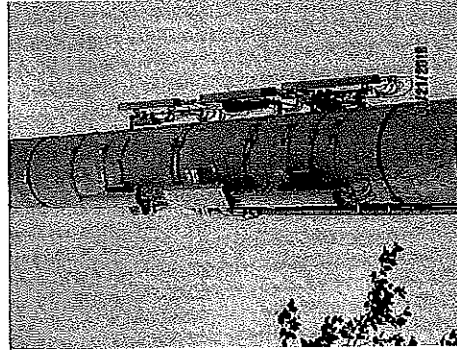
SHEET TITLE  
**TOWER ELEVATION**

SHEET NUMBER  
**C-2**

PHOTOS TAKEN ON 04/30/15



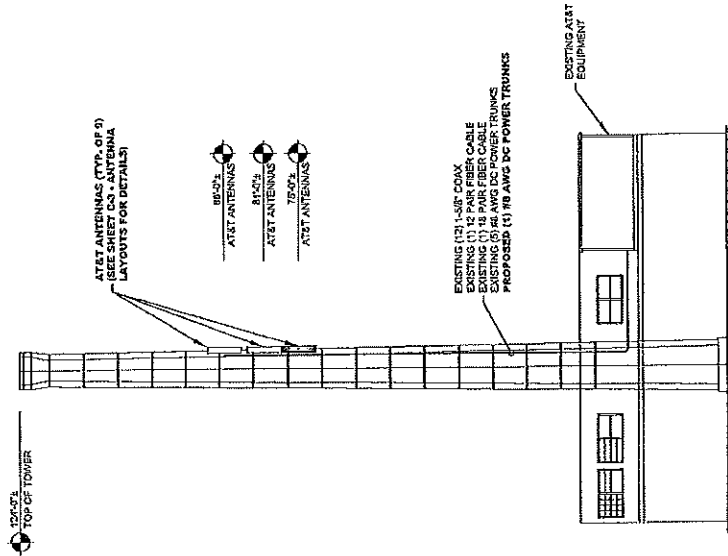
EXISTING SECTORS



EXISTING TOWER

**NOTES:**  
REFER TO RF DESIGN SHEET/ANTENNA CONFIGURATION DRAWINGS/ FOR ANTENNA PLACEMENT, MOUNTING HEIGHTS, LEADERS, BRACE POLES, RET CONTROLLER & AIR CABLE, INCL. BOTTOM JUMPERS, LAN CABLES, SOURCE LOADS OR TERMINATION CAVES.  
• ALL ANTENNA AZIMUTH TO BE FROM TRUE NORTH.

**REFERENCE NOTES**  
CC SHALL REVIEW AND COMPLY WITH MASTEC NETWORK SOLUTIONS MOUNT STRUCTURAL ANALYSIS DATED: 04/20/20.



TOWER ELEVATION  
11/17 SCALE: 1/8"=1'-0"  
21/25F SCALE: 1/16"=1'-0"





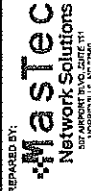
040020  
 RAFAEL MOHAMED, P.E.  
 WISCONSIN NO. 63760

SUBMITTALS	
DATE	DESCRIPTION / REV. ISSUED BY

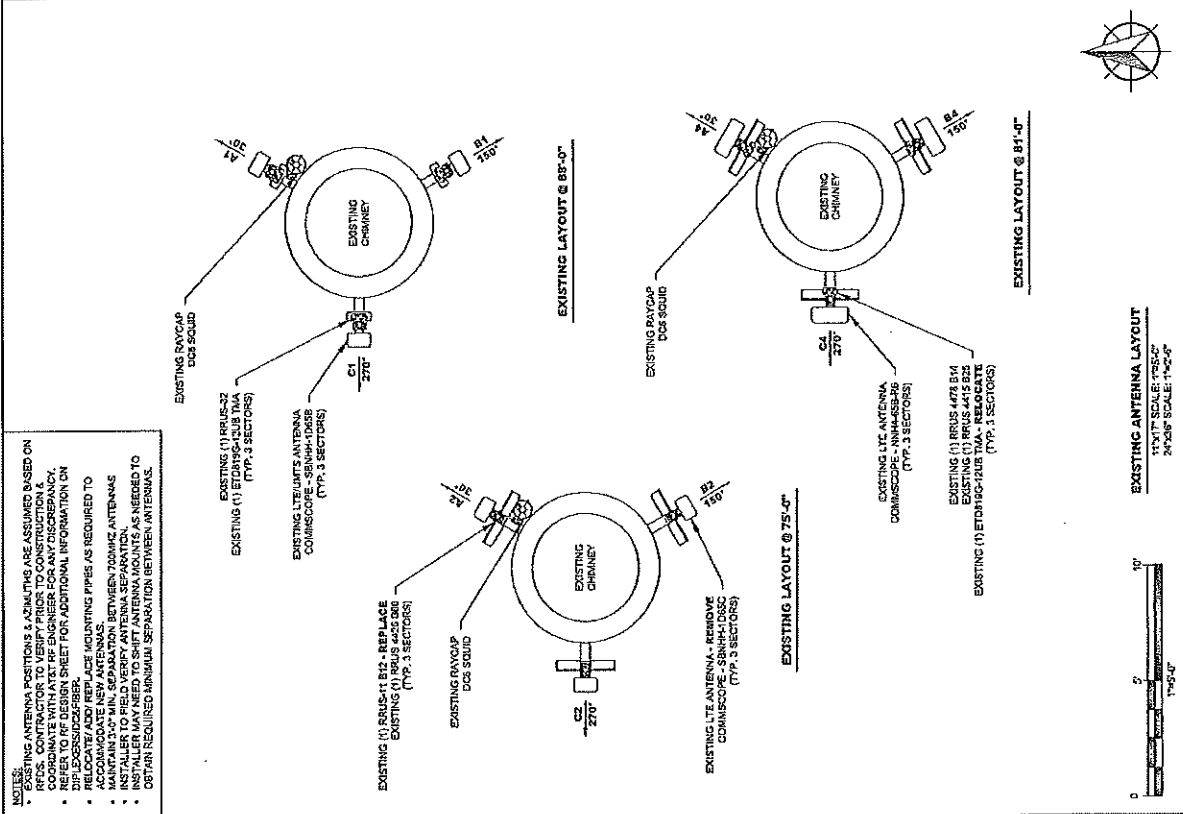
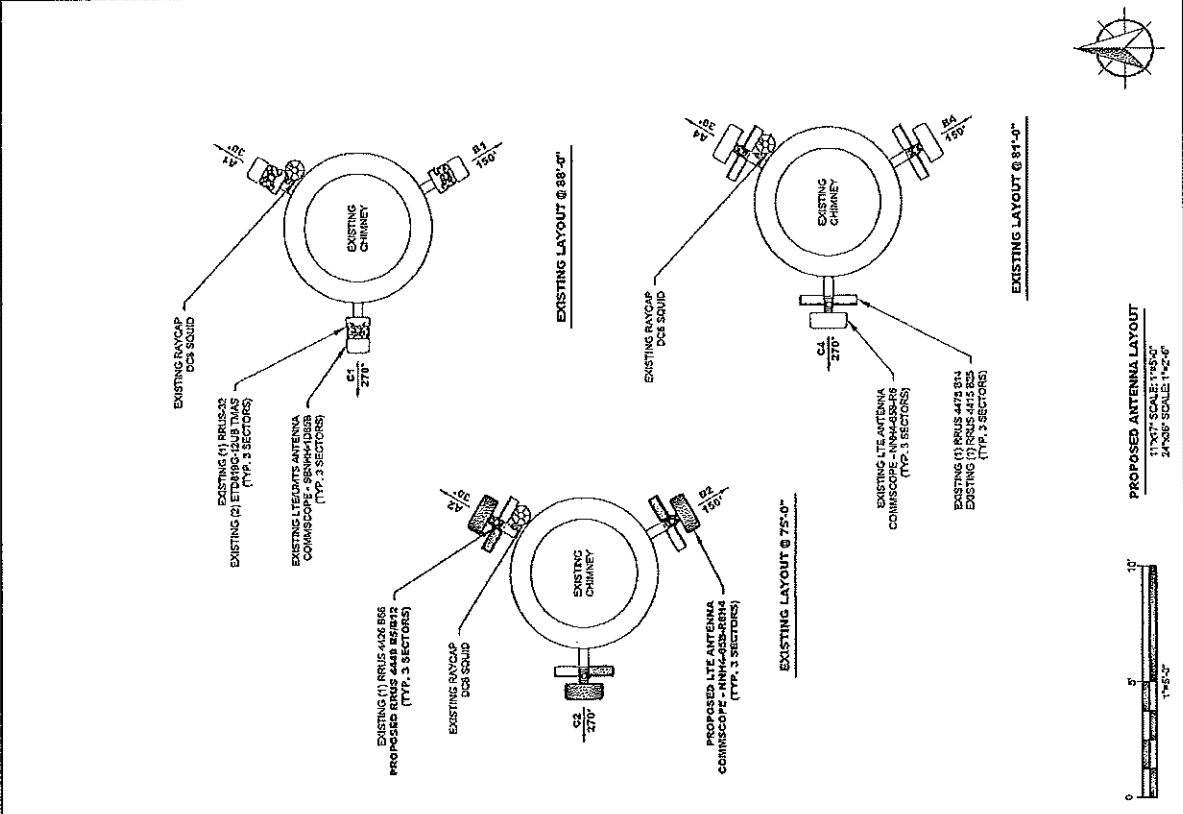
  

DRAWN BY:	MAN
CHECKED BY:	JF3
APPROVED BY:	RM
WIS. PROJECT NO.:	20035-AEC

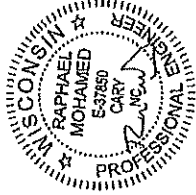
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PREPARED FOR:	
SITE ID:	WI0459
SITE NAME:	DOWNTOWN WAUKESHA
SITE ADDRESS:	500 RIVERVIEW AVENUE WAUKESHA, WI 53188
FA LOCATION:	10014988
TOWER OWNER ID:	N/A
SHEET TITLE	ANTENNA LAYOUTS
SHEET NUMBER	C-3



- NOTES:**
- ALL ANTENNA POSITIONS & SOLUTIONS ARE ASSUMED BASED ON RFSS. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION & COORDINATE WITH AT&T RF ENGINEER FOR ANY DISCREPANCY. REFER TO RF DESIGN SHEET FOR ADDITIONAL INFORMATION ON ANTENNA POSITIONS.
  - RELOCATE/ADD/REPLACE MOUNTING PIPES AS REQUIRED TO ACCOMMODATE NEW ANTENNAS.
  - MAINTAIN 3'-0" MIN. SEPARATION BETWEEN TOWER ANTENNAS.
  - INSTALLER MAY NEED TO SHIFT ANTENNA ADJANTS AS NEEDED TO OBTAIN REQUIRED MINIMUM SEPARATION BETWEEN ANTENNAS.



04/03/20  
 RAFAEL MOHAMED, P.E.  
 WISCONSIN NO. 53760

SUBMITTALS	
DATE	DESCRIPTION (REVISED BY)
04/03/20	CONSTRUCTION 0
	304

DESIGNED BY:	CHKD BY:
MAH	AFS
AFS	RU

NO.	PROJECT NO.	DATE SCHEDULED
1		

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PREPARED BY:  
**Mastec**  
 Network Solutions  
 500 RIVERVIEW AVENUE  
 WAUKESHA, WI 53188

SITE ID:  
 W10159

SITE NAME:  
 DOWNTOWN WAUKESHA

SITE ADDRESS:  
 500 RIVERVIEW AVENUE  
 WAUKESHA, WI 53188

FA LOCATION:  
 10011988

TOWER OWNER ID:  
 N/A

SHEET TITLE  
**RF SCHEDULE**

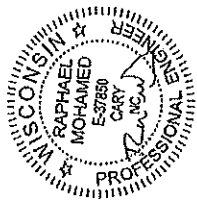
SHEET NUMBER  
**C-4**

NOTES:  
 \* CONTRACTOR TO VERIFY COLOR CODING REQUIREMENT WITH AT&T CONSTRUCTION MANAGER PRIOR TO INSTALLATION.

FINAL RF EQUIPMENT SCHEDULE												
SECTOR - POSITION	FREQUENCY BAND	ANTENNA MAKE/MODEL	RAD CENTER	ANTENNA TOP HEIGHT	AZIMUTH	E. TILT	M. TILT	(RTY.) RADIO	(RTY.) TRIP/FILTERS	(RTY.) SURGE PROTECTION	(RTY.) CABLES	CABLE LENGTH
A1	LITE 850 LITE WCS	COMMSCOPE - SRNH-105B	80'-0"	91'-0"	30°	3°	-	(1) RRUS-32-B30	(2) ETD190-12UB	-	(4) 1-50' COAX	91'-0"
A2	LITE 700/ 5GSS/AN5	COMMSCOPE - NNH-65B-RM4 (P)	75'-0"	79'-0"	30°	-	(1) RRUS-44B BS612 (P) (1) RRUS-44B BS6	(1) DC-48-60-18ACEV	-	(1) DC-48-60-18ACEV	(1) FIBER TRUNK (2) DC TRUNKS	91'-0"
A3	-	-	-	-	-	-	-	-	-	-	-	-
A4	LITE 700/NI900	COMMSCOPE - NNH-65B-R6	81'-0"	84'-0"	30°	-	(1) RRUS-44B BS612 (P) (1) RRUS-44B BS6	-	-	-	-	-
B1	LITE 850 LITE WCS	COMMSCOPE - SRNH-105B	85'-0"	91'-0"	150°	67°	-	(1) RRUS-32-B30	(2) ETD190-12UB	-	(4) 1-50' COAX	91'-0"
B2	LITE 700/ 5GSS/AN5	COMMSCOPE - NNH-65B-RM4 (P)	75'-0"	78'-0"	150°	-	(1) RRUS-44B BS612 (P) (1) RRUS-44B BS6	(1) DC-48-60-18ACEV	-	(1) DC-48-60-18ACEV	(1) FIBER TRUNK (2) DC TRUNKS	91'-0"
B3	-	-	-	-	-	-	-	-	-	-	-	-
B4	LITE 700/NI900	COMMSCOPE - NNH-65B-R6	81'-0"	84'-0"	150°	-	(1) RRUS-44B BS612 (P) (1) RRUS-44B BS6	-	-	-	-	-
C1	LITE 850 LITE WCS	COMMSCOPE - SRNH-105B	80'-0"	91'-0"	270°	47°	-	(1) RRUS-32-B30	(2) ETD190-12UB	-	(4) 1-50' COAX	91'-0"
C2	LITE 700/ 5GSS/AN5	COMMSCOPE - NNH-65B-RM4 (P)	75'-0"	78'-0"	270°	-	(1) RRUS-44B BS612 (P) (1) RRUS-44B BS6	(1) DC-48-60-18ACEV	-	(1) DC-48-60-18ACEV	(1) DC TRUNK (1) DC TRUNK (P)	91'-0"
C3	-	-	-	-	-	-	-	-	-	-	-	-
C4	LITE 700/NI900	COMMSCOPE - NNH-65B-R6	81'-0"	91'-0"	270°	4°	-	(1) RRUS-44B BS612 (P) (1) RRUS-44B BS6	-	-	-	-
<b>TOTALS</b>								(15) RRUS	(6) TRMS (0) FILTERS	(2) SPD5	(20) CABLES	-

(P) = PROPOSED

RF SCHEDULE PREPARED BASED ON THE RFRS DATED 04/15/20  
 CONTRACTOR TO VERIFY AND INCORPORATE MOST  
 RECENT VERSION OF RFRS PRIOR TO CONSTRUCTION



04/20/00  
 RAHAHEL MOHAMED, P.E.  
 WISCONSIN NO. 57780

SUBMITTALS	
DATE	DESCRIPTION
04/20/00	DRY BOUND BY
	CONSTRUCTION

DATE: 04/20/00  
 DRAWN BY: MMH  
 CHECKED BY: JFS  
 APPROVED BY: [Signature]  
 ENG PROJECT NO: 28833-RCD

PREPARED FOR:  
 AT&T

PREPARED BY:  
 Mastec Network Solutions  
 201 W. WISCONSIN AVENUE  
 WAUWATOSA, WISCONSIN 53226

SITE ID: WID159

SITE NAME:  
 DOWNTOWN WAUKESHA

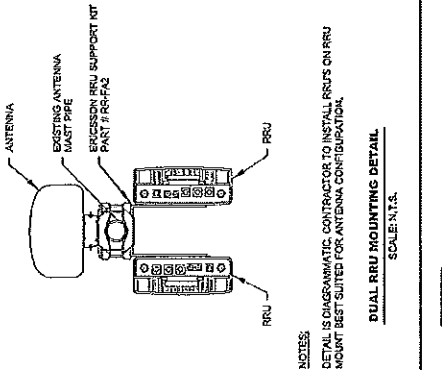
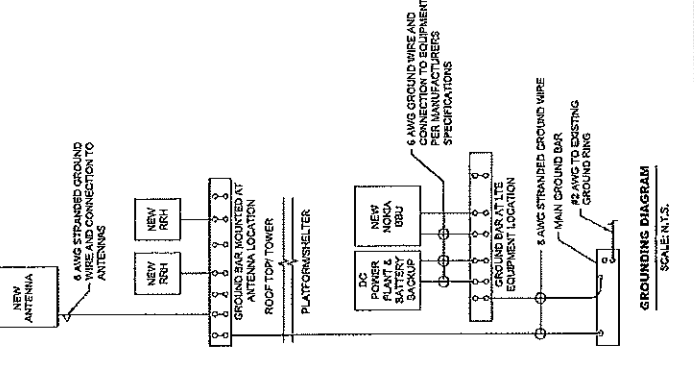
SITE ADDRESS:  
 500 RIVERVIEW AVENUE  
 WAUKESHA, WI 53188

FA LOCATION:  
 10011988

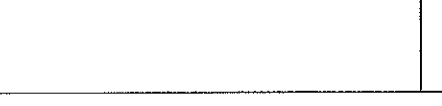
TOWER OWNER ID:  
 N/A

SHEET TITLE  
 CIVIL DETAILS

SHEET NUMBER  
 C-5



NOTES:  
 DETAILS DIAGRAMATIC CONTRACTOR TO INSTALL RRUS ON RRU  
 MUST BE SITED FOR ANTENNA DISTRIBUTION.  
 SCALE: N.T.S.



NOTES:  
 1. REFER TO MANUFACTURER FOR EXACT CABLE MODEL, NUMBERS AND MANUFACTURER SPECIFICATIONS FOR PROPER GRAPNELS AND HANGERS TO SUPPORT THE FIBER AND DC CABLE BUNDLES.  
 2. REFER TO STRUCTURAL ANALYSIS FOR EXACT CABLE ROUTING AND MOUNTING CONFIGURATION.  
 SCALE: N.T.S.

FIBER/DC CABLE SUPPORT  
 SCALE: N.T.S.

NEW ANTENNA SPECIFICATIONS			
ANTENNA MODEL	LENGTH (A)	WIDTH (B)	DEPTH (C)
COMSCOPE NNH-455-RSH	72.0"	19.0"	7.5"
			83.3 LBS

NEW ANTENNA SPECIFICATIONS  
 SCALE: N.T.S.



04/03/20  
RAPHAEL MOHAMED, P.E.  
REGISTERED PROFESSIONAL ENGINEER

**SUBMITTALS**

DATE	DESCRIPTION	REVISED BY
04/03/20	CONSTRUCTION	0
		RM

ISSUED BY:	DATE:	SCALE:
APPROVED BY:		
DATE:		
PROJECT NO.:	20035-42C	

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PREPARED BY:  
**Mastec**  
Network Solutions  
107 WASHINGTON ST., SUITE 111  
WAUKESHA, WI 53186

SITE ID:  
WH0159

SITE NAME:  
DOWNTOWN WAUKESHA

SITE ADDRESS:  
500 RIVERVIEW AVENUE  
WAUKESHA, WI 53186

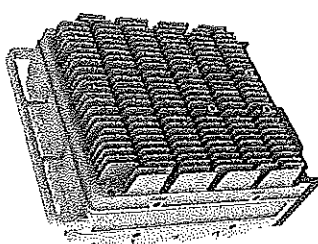
FA LOCATION:  
10011988

TOWER OWNER ID:  
N/A

SHEET TITLE  
CIVIL DETAILS

SHEET NUMBER  
C-6

- RS, B12
- B3 BX = 484-310 WIRE, 817 BX = 728-242 WIRE
- B5 BX = 484-310 WIRE, 817 BX = 458-716 WIRE
- BOTH FREQUENCY BANDS ARE COMBINED TO TRANSMIT/RECEIVE OUT THE SAME RF CONNECTORS.
- FOR THE BANDS TO BE COMBINED, THE FREQUENCY BANDS MUST BE SEPARATED BY AT LEAST 10% OF THE BANDWIDTH.
- THE FOLLOWING BANDS MUST BE SEPARATED BY AT LEAST 10% OF THE BANDWIDTH.
- CONNECTIONS TO ANTENNA MUST BE MADE AT THE END OF THE CABLE. THE CABLE MUST HAVE A SINGLE WIRE AT EACH END.
- CONNECTIONS TO ANTENNA MUST BE MADE AT THE END OF THE CABLE. THE CABLE MUST HAVE A SINGLE WIRE AT EACH END.
- RESERVED FOR 55 MHz OPERATIONAL LATER, DO NOT CONNECT SPT TO DUAL.
- INSTALL 2 SPT FROM 50553 FOR CPRI LENGTH 1.4 FT. 1D 101
- INSTALL 2 SPT FROM 102 701 AND 102 702, BI-DIRECTIONAL SPT FOR CPRI LENGTH
- 2 EXTERNAL I/O INPUTS
- MAX WIND LOAD @ 50MPS = 280 N
- ORANGE AND GREEN WIRE CONNECTIONS TO ANTENNA MUST BE MADE AT THE END OF THE CABLE.
- FEED MUST SUPPORT 700V, A SINGLE DC TRUNK CABLE CAPABLE OF SUPPORTING 140W WITH A
- 40AMP WIRE CAN BE CONNECTED TO A 10MM<sup>2</sup> 200VDC BY 200VDC WIRE CABLE CONNECTED FROM THE
- ANTENNA TO THE WIRE CABLE.
- 40 MM HORIZONTAL SEPARATION REQUIRED FOR SIZE BY SIDE MOUNTING
- 20 MM SEPARATION REQUIRED FROM ANTENNA BACKPLANE TO RADIO
- 500 MM VERTICAL SEPARATION REQUIRED FROM ANTENNA TO RADIO
- MIN. MAX DC CABLE SIZE FROM SOLID TO RADIO = 9.8 AWG
- ADAPTER IS REQUIRED FOR 2 WIRE CONNECTION
- DIMENSIONS (INCL. HANDLES, FEET AND SUNSHIELD VIB FAN UNIT)
- HEIGHT 13.27" (338 MM)
- DEPTH 5.47" (139 MM)
- WIDTH 13.27" (338 MM)
- WEIGHT, EXCL. MOUNTING HARDWARE = 71 LB (32.2 KG)



**RRUS 4449 BS/B12 SPECIFICATIONS**  
SCALE: N.T.S.

**GENERAL NOTES**

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:  
OWNER - AT&T  
CONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)  
CEN - ORIGINAL EQUIPMENT MANUFACTURE
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR 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 OWNER.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND PERMITS TO THE CITY OF WAUKESHA, WI 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 CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- CONTRACTOR SHALL PROTECT ALL UTILITIES AS SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AS SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AS SHOWN ON THESE DRAWINGS.
- IF THE OPERATED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROTECT ALL UTILITIES AS SHOWN ON THESE DRAWINGS.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- CONTRACTOR 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 OWNERS DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- ALL WORK SHALL BE IN COMPLIANCE WITH CURRENT VERSION OF THE CONSTRUCTION SPECIFICATIONS INCLUDING UPDATES. IF CONTRACTOR DOES NOT HAVE A COPY OF THESE, NOTIFY INSTANTLY.

**GENERAL NOTES (USE WHERE APPLICABLE)**

**GROUNDING NOTES**

- COAX CABLE SHALL BE GROUNDING AT ANTENNA LEVEL. WITHIN 5' OF ANTENNA, COAX WILL ADDITIONALLY BE GROUNDING AT THE BASE OF EQUIPMENT CABINET. EQUIPMENT CABINET IS MORE THAN 15' FROM THE TOWER AN ADDITIONAL GROUND KIT WILL BE ADDED AT BEFORE CABLE ENTERS CABINET.
- ALL COAX GROUND KITS WILL BE APPROXIMATELY 2' COMPACT SURE GROUND OR APPROVED EQUAL.
- VERIFY THE GROUNDING CONTINUITY BETWEEN THE TOWER BASE AND THE NEW AT&T CABINET GROUND BAR. CONTRACTOR SHALL ENSURE THAT ALL METALLIC OBJECTS WITHIN 6' FROM CABINET HAVE GROUNDING CONTINUITY. THE CONTRACTOR SHALL CORRECT ANY DEFECTS BY ADDING GROUNDING CONDUCTOR TO ENSURE CONTINUITY.
- CONTRACTOR SHALL PERFORM A GROUND IMPEDANCE TEST PRIOR TO CONSTRUCTION TO ENSURE SITE IS LOWER THAN 4-ohm. IF SITE HAS A RESISTANCE HIGHER THAN 4 OHM, REFER TO AT&T FOR FURTHER DIRECTION.
- GROUNDING CONDUCTORS SHALL BE COPPER ONLY. EITHER SOLID OR STRANDED CONDUCTORS ARE PERMITTED. ALL EXTERNAL BURIED CONDUCTORS MUST BE BASE. EQUIPMENT GROUND LEADS IN CABLE TRAYS MUST BE GREEN INSULATED.
- CONTRACTOR TO PROVIDE GROUND WIRES, BARS AND CONNECTIONS AS SHOWN ON GROUNDING RIBER DIAGRAM.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. EXCEPT AS OTHERWISE INDICATED, RADIUS BEHINDS OF GROUNDING LEADS TO BE A MINIMUM OF 12". 16 AWG WIRE MAY BE BENT WITH 6" RADIUS BEING WHERE FIELD CONDITIONS PROHIBIT WIDER SWEEPS.
- GROUNDING CONNECTIONS SHALL BE BOTH THERMIC TYPE (CROWD WELD) TO ANTENNA WASTES, FENCE POSTS, AND GROUND RODS, REMAINING CONNECTIONS SHALL BE COMPRESSION MECHANICAL FITTINGS.

**ELECTRICAL NOTES**

- ALL ELECTRICAL WORK SHALL CONFORM TO THE 2017 NATIONAL ELECTRIC CODE.
- ALL ELECTRICAL ITEMS SHALL BE UL APPROVED OR LISTED.
- POWER WIRES AND CABLES SHALL BE COPPER WITH TYPE THIN THIN, OR THIN INSULATION. SOLID CONDUCTORS FOR #10 AWG AND SMALLER STRANDED FOR LARGER THAN #10 AWG. MINIMUM SIZE #12 AWG.
- POWER WIRES OUTSIDE CABINET AND CABLES SHALL BE INSTALLED IN CODE COMPLIANT RIGID CONDUIT OR FLEXIBLE LIQUID TIGHT CONDUIT AS INDICATED ON DRAWING.
- CONTRACTOR TO OBTAIN ALL PERMITS, PAY PERMIT FEES, AND BE RESPONSIBLE FOR SCHEDULING INSPECTIONS.
- CONTRACTOR TO OBTAIN LOCAL POWER AND TELEPHONE COMPANY APPROVAL AND COORDINATE WITH UTILITY COMPANIES SERVICE ENTRANCE REQUIREMENTS.

**COAX NOTES**

- MINIMUM SEPARATION BETWEEN ANTENNAS IS 30' IF CONTRACTOR CAN NOT MAINTAIN MINIMUM DISTANCE CONTACT ENGINEER FOR SOLUTION / ALTERNATE DESIGN.
- COAX CABLE LENGTH SHOWN IS APPROXIMATE. CONTRACTOR IS REQUIRED TO MAKE ACTUAL FIELD MEASUREMENT PRIOR TO PURCHASE AND BE RESPONSIBLE FOR SAME.
- COAX CABLE SHALL BE RAISED / SUPPORTED WITH HOISTING STRAP AT APPROPRIATE POINTS PER MANUFACTURER REQUIREMENTS.
- CONTRACTOR WILL PROVIDE COAX CABLE, RF CONNECTORS AND RF GROUNDING KITS.
- CONTRACTOR SHALL SUPPORT COAX CABLE PER MANUFACTURER REQUIREMENTS. SUPPORT SHALL BE STAINLESS STEEL SHAPES OR NON-COMPRESSING BUTTERFLY CLAMP. NO NYLON OR PLASTIC "ZIP-TIES" WILL BE ALLOWED. COAX MAY BE UNSUPPORTED INSIDE MONOPOLE INSTALLATIONS.
- NO COAX SHALL BE OUTSIDE THE POLE MORE THAN 20" UNLESS OTHERWISE DIRECTED. TO GET FROM AN EXISTING PORTHOLE TO ANTENNA HEIGHT IF DISTANCE IS GREATER THAN 20" A NEW 6"X3" PORTHOLE SHALL BE INSTALLED. PORTHOLE SHALL BE INSTALLED PER TOWER MANUFACTURER REQUIREMENTS. NO HOLES WILL BE CUT WITH A TORCH. ALL HOLES WILL BE CUT WITH DIAMOND WHEEL. NO NEW PORTHOLES SHALL BE INSTALLED UNLESS PRIOR WRITTEN APPROVAL IS GIVEN BY AT&T.



04/03/20

RAFAEL MOHAMED, P.E.  
PROFESSIONAL ENGINEER

DATE	DESCRIPTION	PREPARED BY
04/03/20	CONSTRUCTION	SM

MANUFACTURER: 20855-AEC

CONTRACT NO: 175-O-094

PROJECT NO: 20855-AEC

DATE: 04/03/20

BY: SM

CHECKED BY: [Signature]

APPROVED BY: [Signature]

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PREPARED BY:  
**Mastec**  
Network Solutions  
3rd FLOOR, 1001 15TH AVENUE, SUITE 111  
WAUKESHA, WI 53188

SITE ID:  
W10159

SITE NAME:  
DOWNTOWN WAUKESHA

SITE ADDRESS:  
500 RIVERVIEW AVENUE  
WAUKESHA, WI 53188

FA LOCATION:  
10014988

TOWER OWNER ID:  
N/A

SHEET TITLE  
GENERAL NOTES

SHEET NUMBER  
GN-1

# Ordinance 175-O-094

Ordinance 175-O-094: 5th Amendment To Lease Agre...

 **Passed By Majority Vote**

D1 - Foti	AYE
D2 - Zimmermann	AYE
D3 - Morris	AYE
D4 - Batzko	AYE
D5 - Dondlinger	AYE
D6 - Walz	AYE
D7 - LaFontain	AYE
D8 - Michalski	AYE
D9 - Heinrich	AYE
D10 - Swan	AYE
D11 - Howard	AYE
D12 - Wolff	AYE
D13 - Decker	AYE

D14 - Mommaerts	AYE
D15 - Mitchell	AYE
D16 - Crowley	AYE
D17 - Paulson	AYE
D18 - Nelson	AYE
D19 - Cummings	AYE
D20 - Schellinger	AYE
D21 - Gaughan	AYE
D22 - Wysocki	AYE
D23 - Hammitt	AYE
D24 - Wainbow	ABSENT
D25 - Johnson	AYE

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