RESOLUTION NUMBER 7875

WHEREAS, the City of Beatrice ("City") and Tisdale, Nebraska, LLC, a Delaware Limited Liability Company ("Tisdale") entered into a Tower and Ground Space Lease dated December 2, 2013 ("Lease") wherein Tisdale leased attachment locations for their cellular common carrier mobile radio base station operations and related telecommunications functions on a water tower owned by the Landlord; and

WHEREAS, New Cingular Wireless PCS, LLC, a Delaware Limited Liability Company ("New Cingular Wireless"), is the successor in interest of Tisdale; and

WHEREAS, on or about May 6, 2019, the City and New Cingular Wireless executed the First Amendment to the Redevelopment Agreement to add equipment to the existing leased attachment locations; and

WHEREAS, the City and New Cingular Wireless desire to amend the Lease regarding the replacement and installation of antennas, associated cables, and communications instruments.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF BEATRICE, NEBRASKA;

SECTION 1. That the Mayor and City Clerk be and hereby are authorized to enter into the Second Amendment to the Tower and Ground Space Lease between the City of Beatrice, Nebraska and New Cingular Wireless PCS, LLC, regarding the replacement and installation of antennas, associated cables, and communications instruments, on or near the water tower located at 1203 North 19th Street, Beatrice, Nebraska. A copy of said Second Amendment, marked as Exhibit "A", is attached hereto and incorporated by reference.

SECTION 2. That all resolutions or parts of resolutions in conflict herewith are hereby repealed.

RESOLUTION PASSED AND ADOPTED this 2nd day of November, 2026.

Attest:

Erin Saathoff, MMC, City Clerk

Michael McLain, Mayor

Exhibit "A"

Market: Northern Plains
Cell Site Number: NEL02337
Cell Site Name: CNE_Beatrice Northeast
Fixed Asset Number: 14412546

SECOND AMENDMENT TO THE TOWER AND GROUND SPACE LEASE

THIS SECOND AMENDMENT TO THE TOWER AND GROUND SPACE LEASE ("Second Amendment"), dated as of the latter of the signature dates below, is by and between The City of Beatrice, Nebraska, a Municipal Corporation, having a mailing address of 400 Ella Street, Beatrice, NE 68310 ("**Landlord**") 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 ("**Tenant**").

WHEREAS, Landlord and Tenant entered into a Tower and Ground Space Lease dated December 2, 2013, as amended by that First Amendment to Tower and Ground Space Lease dated May 6, 2019, whereby Landlord leased to Tenant certain Premises, therein described, that are a portion of the Property located at 1203 N. 19th Street in the City of Beatrice, in Gage County, State of Nebraska ("**Lease**"); and

WHEREAS, Landlord and Tenant desire to amend the Lease to allow for the replacement and installation of antennas, associated cables and communications instruments; and

WHEREAS, Landlord and Tenant desire to amend the Lease to specify the notice procedures for Tenant operations during tank maintenance; and

WHEREAS, Landlord and Tenant, in their mutual interest, wish to amend the Lease 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, Landlord and Tenant agree as follows:

1. **New Exhibit B-1.** Landlord consents to the replacement of antennas and installation of associated cables and equipment as more completed described on attached Exhibit B-1. Exhibit B-1 hereby replaces Exhibit B of the Lease. Upon full execution of this Second Amendment, the Plans shall be deemed approved and accepted by Landlord.

2. **Base Rent.** Commencing on November 1, 2026, Tenant shall pay Base Rent to Landlord in the amount of two thousand four hundred sixty-seven and 80/100 dollars ($2,467.80) per month, subject to further adjustments and escalations as provided for in the Lease.

3. **Maintenance Procedure.** Tenant acknowledges that it may be required to relocate and/or turn down its equipment from time to time to accommodate Landlord's maintenance of the water

tank. Landlord acknowledges under Federal Communications Commission (FCC) rules and regulations, it cannot employ self-help to power down or relocate Tenant's equipment on its own accord and that specific procedures must be followed. Those procedures are set forth as follows:

a. Removal/Relocation Required: Landlord must submit a request **six (6) months in advance** via Tenant's Landlord Portal located at: Polaris.att.com/home. In the instance of said six (6) month notice, exact scheduled dates for work are not immediately required. Landlord must simply provide notice of the planned maintenance sufficiently enough in advance (i.e., six (6) months) for Tenant to coordinate and execute removal and replacement.
b. Equipment Turn-Down Required: Call Tenant NOC at (877) 518-6937 for emergency and/or scheduled equipment shut down.

In the event Landlord submits a timely request in accordance with the above-stated procedures and Tenant fails to accommodate Landlord's request, Tenant agrees to reimburse Landlord for Landlord's actual damages incurred as a result of Tenant's failure to comply with Landlord's request in an amount not to exceed five thousand and 00/100 dollars ($5,000.00) ("**Reimbursement Request**"). Reimbursement Request must include evidence of Landlord's request to Tenant for removal/relocation/turndown, including the date submitted, along with invoices and/or receipts of the actual damages incurred to support said Reimbursement Request.

4. **One-Time Fee.** The parties acknowledge there may have been instances in the past where Landlord required Tenant to relocate and/or power down its equipment, said coordination did not occur as required, and additional expenses may have been incurred. Tenant agrees to pay to Landlord a one-time fee of Ten Thousand 00/100 Dollars ($10,000.00) for the additional expenses Landlord may have incurred.

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

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

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

"**LANDLORD**"

City of Beatrice, Nebraska

By: Michael McLain
Name: Michael McLain
Title: Mayor

Date: 11-2-26

"**TENANT**"

New Cingular Wireless PCS, LLC
By: AT&T Mobility Corporation
Its: Manager

By: _____
Name: _____
Title: _____
Date: _____

AT&T Mobility

SITE NUMBER: SINE001153
SITE NAME: CNE_BEATRICE NORTHEAST
PROJECT: LTE 1C RRH Swap
FA CODE: 14412546
USID: 156386
SITE ADDRESS: 1203 NORTH 19TH STREET
BEATRICE, NE 68310

PTN # : 3525A1AG40, 3525A1AG91, 3525A1AG7L, 3525A1AG90, 3525A1AG85

PACE ID: MRUMW060944, MRUMW061119, MRUMW060951, MRUMW061063, MRUMW060963

IWM Job #: WSUMW0029310, WSUMW0028492, WSUMW0029180, WSUMW0028411, WSUMW0028799

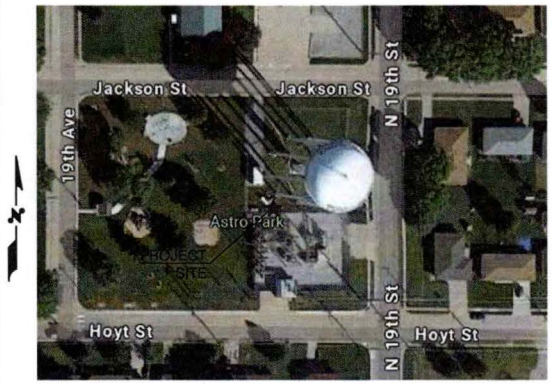
STRUCTURAL ANALYSIS PREPARED BY OTHERS. ANTENNA MOUNT ANALYSIS PREPARED BY APEX ENGINEERS, INC. DATED 07/14/2025.

PROJECT INFORMATION

APPLICANT:	AT&T WIRELESS 7900 XERVES AVE. S, BLOOMINGTON, MN 55431
FA CODE:	14412546
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
STRUCTURE TYPE:	WATER TANK
TOWER OWNER/ PROPERTY OWNER:	CITY OF BEATRICE, NEBRASKA A MUNICIPAL CORPORATION
CONTACT PERSON:	PHONE: TBD
JURISDICTION:	CITY OF BEATRICE
LATITUDE:	40.2779694
LONGITUDE:	-96.7282611
LAT/ LONG TYPE:	NAD 83
GROUND ELEVATION:	1334' AMSL

VICINITY MAP

DIRECTION: FROM 7900 XERVES AVE. S, BLOOMINGTON, MN 55431
TAKE RAMP (RIGHT) ONTO I-494 [SR-5] , AT EXIT 5B, TAKE RAMP (RIGHT) ONTO I-35W , AT EXIT 87B, TAKE RAMP (RIGHT) ONTO I-35 [I-80] 14.0 MI I-35 / I-80 / COUNCIL BLUFFS / KANSAS CITY, AT EXIT 397, TURN RIGHT ONTO RAMP 0.5 MI US-77, TURN LEFT (EAST) ONTO JACKSON ST ,TURN LEFT (NORTH) ONTO N 17TH ST, THEN IMMEDIATELY TURN RIGHT (EAST) ONTO JACKSON ST



PROJECT CONSULTANTS

SITE ACQUISITION:	JACOBS SOLUTIONS, INC 1999 BRYAN STREET, SUITE 3500 DALLAS, TX 75201 ANDREA HOLZER ANDREA.HOLZER@JACOBS.COM
ENGINEER:	APEX ENGINEERS, INC. 500 EAST 22ND STREET, SUITE B LOMBARD, IL 60148, RAJESH K. GOYAL PHONE: (630) 627-1800
RF ENGINEER:	AT&T MOBILITY TBD PHONE: TBD

811 Know what's below. Call before you dig. TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN NEBRASKA, CALL DIGRITE HOTLINE OF NEBRASKA TOLL FREE: 1-800-252-8989 OR http://www.ne1call.com/ NEBRASKA STATUTE REQUIRES MIN OF 2 BUSINESS DAYS NOTICE BEFORE YOU EXCAVATE

CODE COMPLIANCE

- 2015 INTERNATIONAL BUILDING CODE
- 2023 NATIONAL ELECTRICAL CODE
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H

SPECIAL NOTES

- ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT AT&T CONSTRUCTION INSTALLATION GUIDE.
- EXISTING CONDITIONS MUST BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION. IF THERE IS ANY SIGNIFICANT DEVIATION FROM THE DESIGN DRAWINGS, NOTIFY ENGINEER IMMEDIATELY.
- STATEMENT THAT COMPLIANCE WITH THE ENERGY CODE IS NOT REQUIRED. SCOPE OF WORK DOES NOT INVOLVE MODIFICATIONS TO EXTERIOR ENVELOPE OF BUILDING, HVAC SYSTEMS OR ELECTRICAL LIGHTING.

SCOPE OF WORK

AZIMUTHS: 75/165/257/345;
NEW RC (4-SECTOR): 105FT;
EXISTING RC (3-SECTOR): 118FT

TOWER SOW

- REMOVE ALL NOKIA RRHS (9 TOTAL) POST CUTOVER
- REMOVE ALL DC6 SQUIDS (3 TOTAL) POST CUTOVER
- REMOVE ALL EXISTING DC TRUNKS & FIBER TRUNKS POST CUTOVER
- RELOCATE (3) EXISTING KMW EPBQ-654L8H8-L2 ANTENNAS TO NEW A/B/C SECTOR MOUNTS IN POS 1
- INSTALL (4) SP1 VFA12-HD-NPNH SECTOR FRAME MOUNTS WITH (4) SP1 C10-899-055 COLLAR MOUNTS (1 PER SECTOR) AT 105FT RAD CENTER SET TO AZIMUTHS 75/165/257/345
- INSTALL ANY MODS PER ENGINEERING DESIGN AND INSTRUCTIONS
- INSTALL (16) 10FT ANTENNA MAST PIPES (4 PER SECTOR)
- INSTALL (8) 10FT MAST PIPES ON THE SECTOR FRAME ARMS MOUNTED TO THE FACTORY DESIGNED MOUNTING POINT FOR THE RRUS AND SQUIDS (2 PER SECTOR)
- INSTALL (8) DUAL RRU MOUNTING BRACKET KITS AND MOUNT THEM TO THE 8FT MAST PIPES ON THE SECTOR ARMS (2 KITS PER SECTOR)
- INSTALL (1) NEW KMW EPBQ-654L8H8-L2 ANTENNA ON POS 1 DELTA SECTOR
- INSTALL (4) AIR 6419 B77G DoD ANTENNAS STACKED IN POS 2 A/B/C/D
- INSTALL (4) AIR 6419 B77D C-BAND ANTENNAS STACKED IN POS 2 A/B/C/D
- INSTALL (4) E/// KRE-101-2487/1K ANTENNAS IN POS 3 A/B/C/D
- INSTALL (4) 4415 B30 ON DUAL BRACKETS CABLED TO POS 1 A/B/C/D
- INSTALL (4) 4494 B14/29 ON DUAL BRACKETS CABLED TO POS 3 A/B/C/D
- INSTALL (4) 4890 B25/66 ON DUAL BRACKETS CABLED TO POS 3 A/B/C/D
- INSTALL (4) DC9-48-60-24-8C-EV SQUIDS ON 8FT MAST PIPE SHARED WITH RRUS (1 PER SECTOR)
- INSTALL (8) PWRT-606 DC TRUNKS (2 PER SECTOR)
- INSTALL (4) 24-PAIR FIBER TRUNKS (1 PER SECTOR)
- INSTALL (4) HOISTING GRIP ANCHOR POINTS PER ENGINEERING DESIGN AND INSTRUCTIONS
- ANCHOR HOISTING GRIPS PER ENGINEERING INSTRUCTIONS
- INSTALL PWRT-208 DC JUMPER CABLING FROM E/// EQUIP TO DC9 (5 PER SECTOR, 20 TOTAL)
- INSTALL DUAL FIBER JUMPERS FROM E/// EQUIP TO DC9 (5 PER SECTOR, 20 TOTAL)

GROUND SOW

POWER

- REMOVED EXISTING PP AND ASSOICATED EQQUIPMENT
- INSTALL (1) OmniOn Infinity S w-58V
- INSTALL (8) NE070DC58A (NEQ.59319)CONVERTERS
- INSTALL (9) NE075AC48ATEZ+
- INSTALL REQUIRED BREAKERS FOR NEW TOPSIDE EQUIPMENT AND GROUND LEVEL EQUIPMENT
- INSTALL NEW STRUT H-FRAME BETWEEN EXISTING ICE BRIDGE POSTS
- INSTALL (1) DC50-48-60-96-50F ON NEW STRUT H-FRAME
- REMOVE (1) EXISTING DC12 ON ICE BRIDGE POST (POST CUTOVER)
- INSTALL (8) PWRT-606 DC TRUNKS (2 PER SECTOR)

BBU

- REMOVE NOKIA BBUS AND SITE CONTROLLER IN FLEX21
- INSTALL E/// BBUS AND SITE CONTROLLER IN FLEX21
- INSTALL (4) 24-PAIR FIBER TRUNKS AND TERMINATE IN NEW DC50
- INSTALL PATCH FIBERS FROM DC50 TO E/// BBUS IN FLEX21
- REUSE EXISTING FIBER TRAYS FOR PATCH FIBER EXCESS
- RELOCATE EXISTING FMB'S TO STRUT H-FRAME
- INSTALL (2) FMB ON STRUT H-FRAME FOR NEW FIBER TRUNKS

REFERENCE MATERIALS

THESE DRAWINGS ARE PREPARED BASED ON DE130 DATED 06/04/2025, AND DE111 DATED 06/04/2025
GENERAL CONTRACTOR TO VERIFY AND INCORPORATE MOST RECENT VERSION OF RFDS PRIOR TO CONSTRUCTION.

DRAWING INDEX

SHEET	DESCRIPTION
SINE001153-01	TITLE SHEET
SINE001153-02	GENERAL NOTES
SINE001153-03	ELECTRICAL AND GROUNDING NOTES
SINE001153-04	SITE PLAN
SINE001153-05	EQUIPMENT LAYOUT PLAN
SINE001153-06-1	EXISTING ELEVATION
SINE001153-06-2	PROPOSED ELEVATION
SINE001153-07	ANTENNA LAYOUT
SINE001153-08	ANTENNA MATRIX
SINE001153-09	ANTENNAS & RRUS SPECIFICATIONS
SINE001153-10	EQUIPMENT SPECIFICATIONS
SINE001153-11	CONSTRUCTION DETAILS
SINE001153-12	DC POWER PLANT SPECIFICATION

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE THEY COMPLY WITH THE REQUIREMENT OF ALL APPLICABLE CODES AND ORDINANCES.

PROFESSIONAL CIVIL ENGINEER
KUOKHONG WONG
E-20703
07/14/2025
STATE OF NEBRASKA

KUOKHONG WONG
NEBRASKA PE. LICENSE # E-20703 DATE: 07/14/2025
EXPIRES 12-31-2026

amentum
1999 BRYAN STREET, SUITE 3500
DALLAS, TX 75201

Apex Engineers, Inc.
Structural & Civil Engineers
500 East 22nd Street, Suite B
Lombard, Illinois 60148
Ph. (630) 627-1800
Fax. (630) 627-1165
APEX JOB No. JA24-085

CNE_BEATRICE NORTHEAST
SITE NO. SINE001153
1203 NORTH 19TH STREET
BEATRICE, NE 68310

AT&T Mobility

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	07/14/25	FINAL CDs REVISED PER NEW DE130	YA	KW	RG
0	07/29/24	FINAL CDs ISSUED FOR CONSTRUCTION	YA	KW	RG
D	07/11/24	90% CDs REVISED HOIST GRIP ATTACHMENT	YA	PB	RG
C	06/19/24	90% CDs REVISED ANTENNA LOCATION	YA	PB	RG
B	06/12/24	90% CDs REVISED PER COMMENTS	YA	PB	RG

SCALE: AS SHOWN DESIGNED BY: XX DRAWN BY: XX

AT&T MOBILITY
TITLE SHEET
DRAWING NUMBER: SINE001153 - 01
REV: 1

11 x 17 "B" SIZE

6 5 4 3 2 1 D C B A

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

OWNER	–	AT&T
CONTRACTOR	–	GENERAL CONTRACTOR (CONSTRUCTION)
LANDLORD	–	BUILDING/PROPERTY OWNER
PROJECT MANAGER	–	OWNER'S FIELD REPRESENTATIVE
OEM	–	ORIGINAL EQUIPMENT MANUFACTURER

2. 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'S REPRESENTATIVE.
3. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL SAID UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING AFFECTED UTILITIES.
4. THE DRAWINGS AND SPECIFICATIONS ARE INTENTED TO BE FULLY EXPLANATORY AND COMPLIMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH.
5. THE INTENTION OF DRAWINGS AND SPECIFICATIONS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS INDICATED IN THE DOCUMENTS.
6. OWNER FURNISHED EQUIPMENT/ MATERIALS SHALL BE PICKED UP AT THE OWNER'S WAREHOUSE, INSURED, STORED, UNCRATED, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL THE APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING UP.
7. ALL EQUIPMENT FURNISHED AND WORK PERFORMED UNDER THE CONTRACT DOCUMENTS SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP AS SPECIFIED PER OWNERS CONTRACT FROM THE DATE OF FINAL ACCEPTANCE, UNLESS NOTED OTHERWISE. ANY FAILURE OF EQUIPMENT OR WORK DUE TO DEFECTS IN MATERIALS OR WORKMANSHIP SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.
8. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
9. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
10. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH OEM'S RECOMMENDATIONS & OWNERS SPECIFICATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
11. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE OWNER.
12. FOR CLARITY OF ALL PLANS, SOME EQUIPMENT CONDUIT AND WIRE HAS NOT BEEN SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE AND OPERATING SYSTEMS INCLUDING ALL CONDUITS NAD WIRING. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND FIBER CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND FIBER PLAN DRAWING.
13. THE CONTRACTOR SHALL COORDINATE ALL SITE WORK WITH LOCAL OR OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS SITE & IS RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
14. THE CONTRACTOR SHALL AT ALL TIMES DURING CONSTRUCTION MAINTAIN THE UTILITIES OF THE BUILDINGS/SITE WITHOUT INTERRUPTION. SHOULD IT BE NECESSARY TO INTERRUPT ANY SERVICE OR UTILITY, THE CONTRACTOR SHALL SECURE PERMISSION IN WRITING FROM THE LANDLORD FOR SUCH INTERRUPTION AT LEAST 72 HOURS IN ADVANCE. ANY INTERRUPTION SHALL BE MADE WITH A MINIMUM AMOUNT OF INCONVENIENCE TO THE LANLORD AND ANY SUCH SHUTDOWN TIME SHALL BE COORDINATED WITH THE LANDLORD.
15. THE CONTRACTOR SHALL COORDINATE AND REVIEW THE ELECTRICAL CHARACTERISTICS, AMPACITY AND OTHER REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION.
16. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF CONDUIT ROUTING, EQUIPMENT, LIGHTING, ETC. WITH ALL OTHER TRADES IN THE FIELD PRIOR TO INSTALLATION.
17. PROVIDE ALL TEMPORARY WIRING FOR ALL TRADES FOR CONSTRUCTION EQUIPMENT (i.e. HANDTOOLS, WELDERS, PIPE BENDERS, ETC.) AND CONSTRUCTION LIGHTING PER THE LATEST OSHA STANDARDS. INCLUDE ALL COSTS IN THE BASE BID. THE CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF THE WORK, COMPLYING WITH THE APPLICABLE PROVISIONS OF ALL CITY, STATE AND FEDERAL SAFETY LAWS.
18. 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.
19. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS FROM THE EXISTING FACILITY AND HOWEVER SHALL RETURN ALL REMOVED COAX LINES, ANTENNAS, RADIOS, DI-PLEXERS, EQUIPMENT CABINETS, PLINTHS ETC TO THE OWNER'S DESIGNATED LOCATION.
20. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
21. THE CONTRACTOR SHALL SUBMIT AT THE END OF THE PROJECT A COMPLETE SET OF AS-BUILT DRAWINGS TO THE OWNER'S PROJECT MANAGER.

SITE WORK GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION ACTIVITY. TRENCHES IN PUBLIC ROADS, RIGHT OF WAYS AND PRIVATE PROPERTY SHALL BE EXCAVATED IN SUCH A MANNER THAT NO DAMAGE TO A UTILITY IS LIKELY TO OCCUR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND IF NECESSARY REPAIR OF ALL PUBLIC UTILITY SERVICES SUCH AS GAS, ELECTRICITY, WATER, TELEPHONE, AND THE LIKE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL FINES ASSOCIATED WITH INTERRUPTION OF EXISTING UTILITIES.
2. THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PROTECT EXISTING STRUCTURES, UTILITIES, WALKWAYS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE DURING CONSTRUCTION OPERATIONS.
3. DO NOT INTERRUPT EXISTING UTILITIES SERVING THE LANDLORD OR OTHERS WITHOUT WRITTEN PERMISSION FROM THE LANDLORD AND APPROVAL FROM THE PROJECT MANAGER. PROVIDE 72 HOUR NOTIFICATION TO THE LANDLORD AND PROJECT MANAGER PRIOR TO INTERRUPTION OF EXISTING UTILITIES AND ONLY AFTER MAKING PROVISION FOR TEMPORARY UTILITY SERVICES. RELOCATE EXISTING UTILITIES AS DIRECTED ON THE CONSTRUCTION PLANS.
4. SAFETY MEASURES WILL BE REQUIRED OF THE CONTRACTOR TO PROTECT ALL PERSONNEL DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
5. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINACES, RULES, REGULATIONS AND LAWFUL ORDERS OF PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS AND PROPERTY AND THEIR PROTECTION FROM DAMAGE, INJURY OR LOSS. THE CONTRACTOR SHALL PROMPTLY REMEDY DAMAGE AND LOSS TO PROPERTY AT THE SITE CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY HIM.
6. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
7. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
8. THE CONTRACTOR SHALL MEET WITH LANDLORD PRIOR TO CONSTRUCTION AND OBTAIN APPROVAL TO USE OF AREAS FOR PARKING AND ACCESS TO SITE. THE CONTRACTOR SHALL LIMIT USE OF SITE FOR WORK AND STORAGE WITHIN A REASONABLE PERIPHERY OF SCOPE OF THE WORK.

PROFESSIONAL CIVIL ENGINEER
KUCKHONG WONG
E-20703
07/14/2025
STATE OF NEBRASKA

amentum
1999 BRYAN STREET, SUITE 3500
DALLAS, TX 75201

Apex Engineers, Inc.
Structural & Civil Engineers
500 East 22nd Street, Suite B
Lombard, Illinois 60148
Ph. (630) 627-1800
Fax. (630) 627-1165
APEX JOB No. JA24-085

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SCALE: AS SHOWN | DESIGNED BY: XX | DRAWN BY: XX

AT&T MOBILITY

GENERAL NOTES

DRAWING NUMBER	REV
SINE001153 – 02	1

11 x 17 'B' SIZE

6 5 4 3 2 1

D C B A

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC CODE.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC CODE.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANEL BOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
15. GALVANIZED STEEL RIGID METALLIC CONDUIT (RMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE. EMT SHALL BE USED FOR INTERIOR RUNS ONLY.
16. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
17. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
18. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
19. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
20. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
21. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS
22. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
23. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
24. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
25. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 5 OHMS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. GROUND RING SHALL BE 24 INCHES FROM EDGE OF EQUIPMENT SHELTER AND WITHIN 18 TO 36 INCHES OF THE EQUIPMENT PLATFORM.
12. GROUND RODS SHALL BE 5/8 INCH DIAMETER x 10'-0" LONG "COPPERWELD" OR APPROVED EQUAL. GROUND RODS SHALL BE DRIVEN FULL LENGTH VERTICAL IN UNDISTURBED EARTH AT SPACING OF A MINIMUM OF 10'-0" AND A MAXIMUM OF 15'-0" ON CENTERS.
13. DEPTH OF THE GROUND RING SHALL BE EITHER 3'-6" BELOW FINAL GRADE OR THE MINIMUM DEPTH REQUIRED BY LOCAL CODES, REGULATIONS AND ORDINANCES, WHICHEVER IS DEEPER.
14. THE ELECTRICAL SERVICE TO THE SITE SHALL BE GROUNDED AT THE SERVICE DISCONNECTING MEANS REQUIRED IN ARTICLE 250 OF THE NEC., AND IN ACCORDANCE WITH ANY LOCAL CODE.
15. ALL BELOW GRADE GROUNDING CONDUCTORS SHALL BE BARE TINNED SOLID COPPER WIRE. GROUND RING SHALL BE #2 AWG BARE TINNED SOLID COPPER WIRE.
16. ALL ABOVE GRADE GROUNDING CONDUCTORS MAY BE EITHER:
    - BARE TINNED SOLID COPPER WIRE
    - THWN-INSULATED, CONTINUOUS GREEN COLOR, SOLID COPPER WIRE
    - THWN-INSULATED, CONTINUOUS GREEN COLOR, STRANDED COPPER WIRE
17. ALL ABOVE GRADE GROUND CONNECTIONS (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
18. ALL BELOW GRADE GROUNDING CONNECTIONS SHALL BE MADE BY THE CADWELD PROCESS. MECHANICAL LUG ATTACHMENTS BELOW GRADE ARE NOT ACCEPTABLE. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE SPLICES (TEES, Xs, ETC) ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY CADWELD AND INSTALLED PER MANUFACTURER'S RECOMMENDATION AND PROCEDURES.
19. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
20. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
21. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL GROUNDING CONNECTIONS INCLUDING COMPRESSION AND BOLTED GROUND CONNECTIONS.
22. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
23. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
24. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
25. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

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CNE_BEATRICE NORTHEAST
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BEATRICE, NE 68310

AT&T Mobility

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	07/14/25	FINAL CDs REVISED PER NEW DE130	YA	KW	RG
0	07/29/24	FINAL CDs ISSUED FOR CONSTRUCTION	YA	KW	RG
D	07/11/24	90% CDs REVISED HOIST GRIP ATTACHMENT	YA	PB	RG
C	06/19/24	90% CDs REVISED ANTENNA LOCATION	YA	PB	RG
B	06/12/24	90% CDs REVISED PER COMMENTS	YA	PB	RG

SCALE: AS SHOWN | DESIGNED BY: XX | DRAWN BY: XX

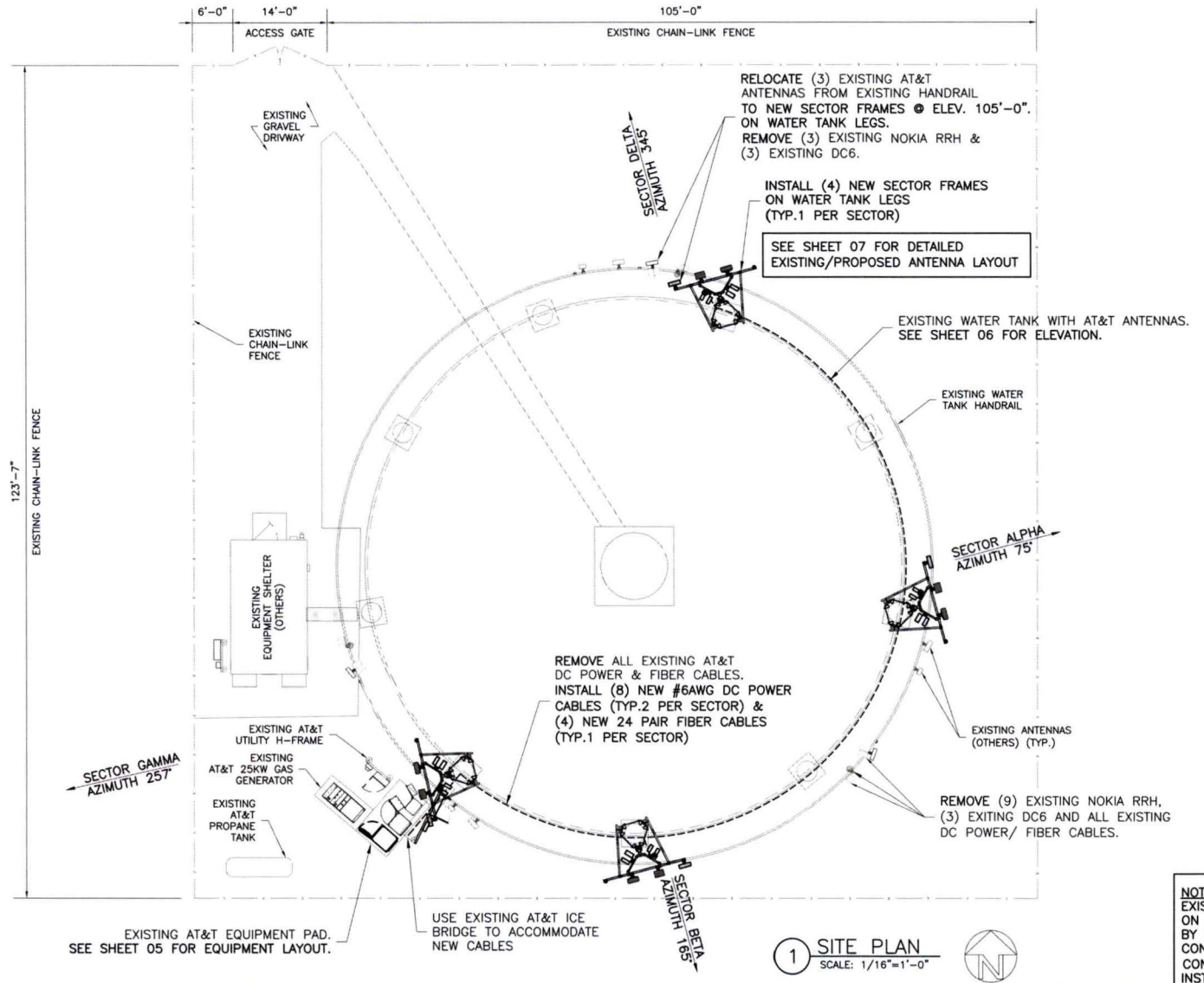
AT&T MOBILITY

ELECTRICAL AND GROUNDING NOTES

DRAWING NUMBER	REV
SINE001153 - 03	1

11 x 17 "B" SIZE

6 5 4 3 2



1 SITE PLAN
SCALE: 1/16"=1'-0"

PROFESSIONAL CIVIL ENGINEER
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NOTE:
EXISTING SITE INFORMATION IS BASED ON CONSTRUCTION DRAWINGS, PREPARED BY MASTEC, DATED 09-18-2023. CONTRACTOR TO VERIFY EXISTING CONDITION/ SPACE REQUIRED TO INSTALL PROPOSED EQUIPMENT.

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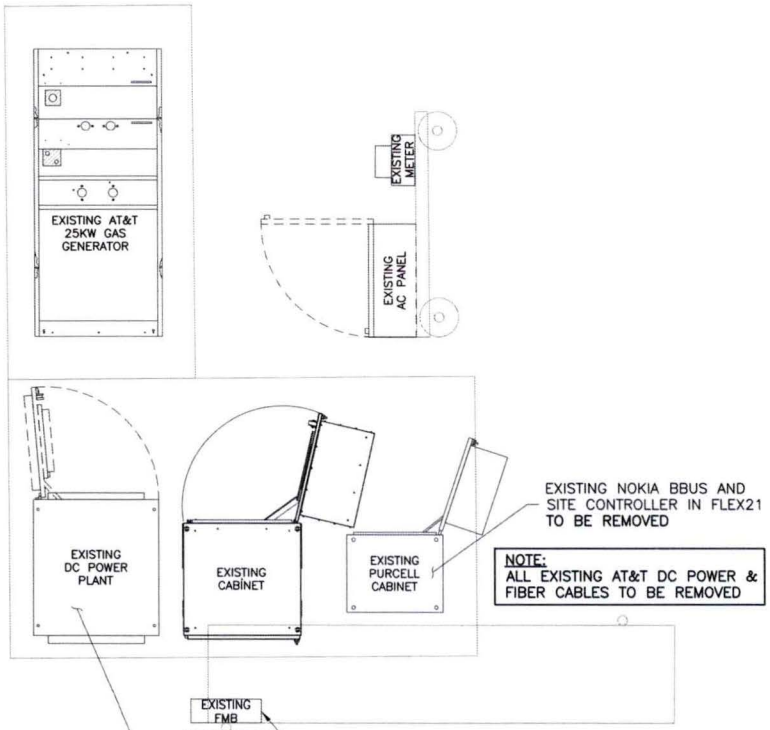
AT&T MOBILITY
SITE PLAN

DRAWING NUMBER	REV
SINE001153 – 04	1

11 x 17 "B" SIZE

6 5 4 3 2
D C B A

NOTE:
EXISTING SITE INFORMATION IS BASED ON CONSTRUCTION DRAWINGS, PREPARED BY MASTEC, DATED 09-18-2023.



1 EXISTING EQUIPMENT LAYOUT
SCALE: 3/8"=1'-0"

NOTES:

- EXISTING SPACE FOR PROPOSED EQUIPMENT ASSUMED TO BE ADEQUATE. PRIOR TO INSTALLATION, COORDINATE FINAL LOCATION WITH CONSTRUCTION MANAGER.
- COORDINATE WITH CONSTRUCTION MANAGER FOR THE PROVISION OF DC CIRCUIT BREAKERS AND OTHER ANCILLARY ITEMS TO SUPPORT THE NEW EQUIPMENT.
- PROPERLY BOND ALL EQUIPMENT AND CONDUCTIVE SURFACES TO EXISTING GROUND PER NEC AND AT&T STANDARDS.

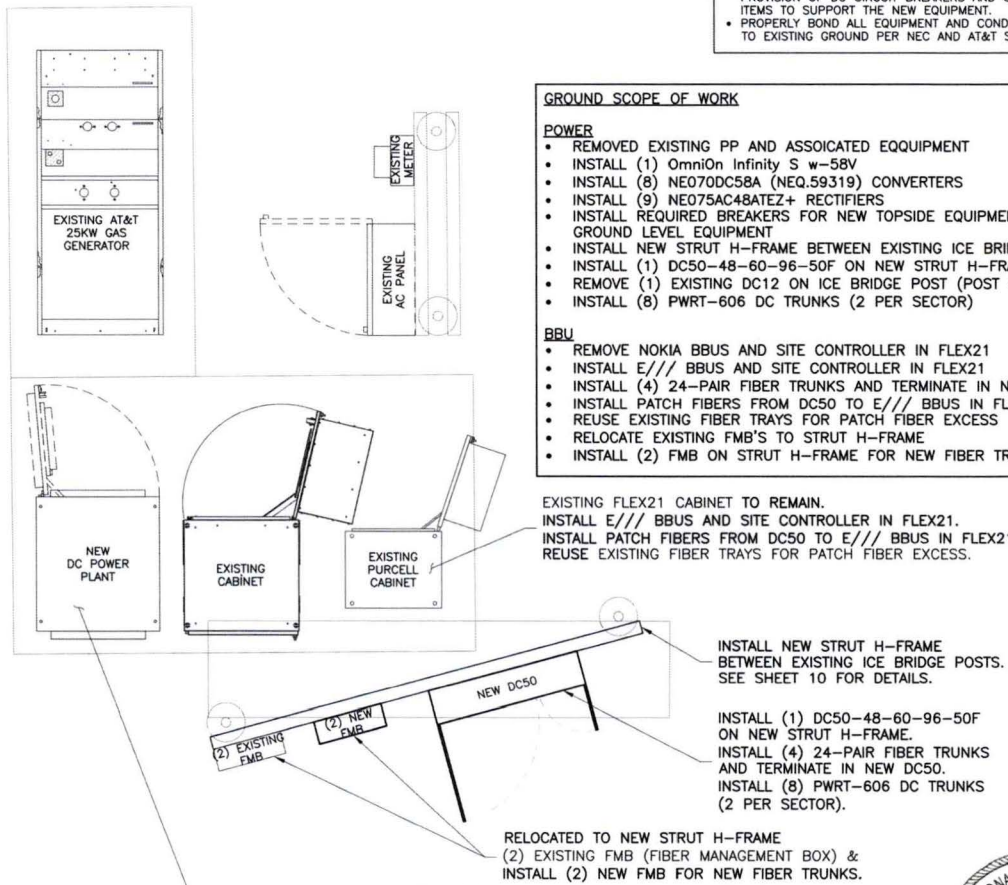
GROUND SCOPE OF WORK

POWER

- REMOVED EXISTING PP AND ASSOICATED EQQUIPMENT
- INSTALL (1) OmniOn Infinity S w-58V
- INSTALL (8) NE070DC58A (NEQ.59319) CONVERTERS
- INSTALL (9) NE075AC48ATEZ+ RECTIFIERS
- INSTALL REQUIRED BREAKERS FOR NEW TOPSIDE EQUIPMENT AND GROUND LEVEL EQUIPMENT
- INSTALL NEW STRUT H-FRAME BETWEEN EXISTING ICE BRIDGE POSTS
- INSTALL (1) DC50-48-60-96-50F ON NEW STRUT H-FRAME
- REMOVE (1) EXISTING DC12 ON ICE BRIDGE POST (POST CUTOVER)
- INSTALL (8) PWRT-606 DC TRUNKS (2 PER SECTOR)

BBU

- REMOVE NOKIA BBUS AND SITE CONTROLLER IN FLEX21
- INSTALL E/// BBUS AND SITE CONTROLLER IN FLEX21
- INSTALL (4) 24-PAIR FIBER TRUNKS AND TERMINATE IN NEW DC50
- INSTALL PATCH FIBERS FROM DC50 TO E/// BBUS IN FLEX21
- REUSE EXISTING FIBER TRAYS FOR PATCH FIBER EXCESS
- RELOCATE EXISTING FMB'S TO STRUT H-FRAME
- INSTALL (2) FMB ON STRUT H-FRAME FOR NEW FIBER TRUNKS



2 PROPOSED EQUIPMENT LAYOUT
SCALE: 3/8"=1'-0"

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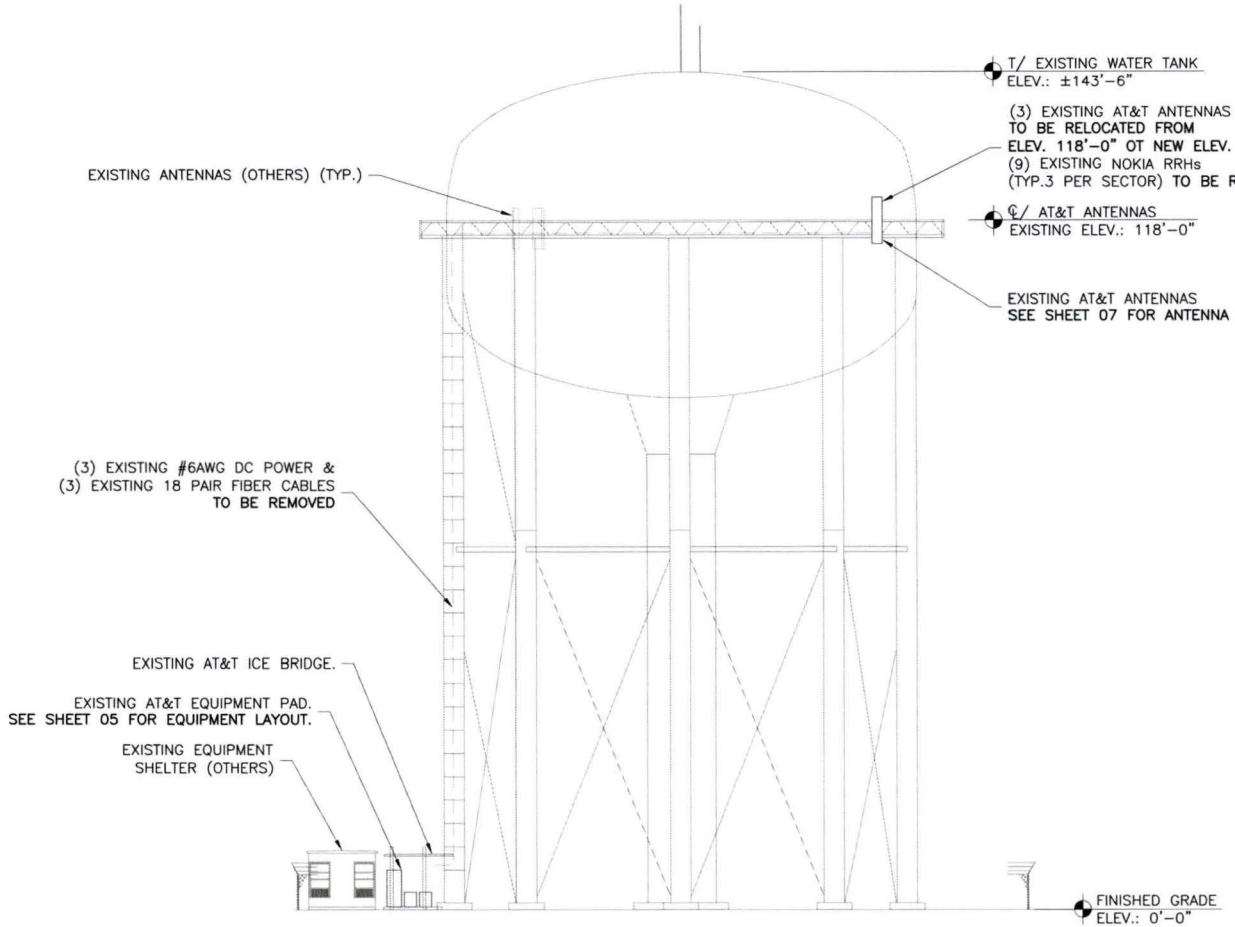
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AT&T MOBILITY

EQUIPMENT LAYOUT PLAN

DRAWING NUMBER	REV
SINE001153 - 05	1

11 x 17 "B" SIZE



NOTE: SEE SHEET T01 FOR PROPOSED AT&T TOWER SCOPE OF WORK

1 EXISTING ELEVATION
SCALE: 3/64"=1'-0"

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AT&T MOBILITY

EXISTING ELEVATION

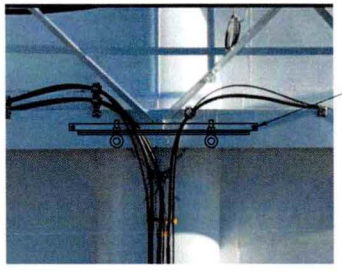
DRAWING NUMBER	REV
SINE001153 -06-1	1

11 x 17 "B" SIZE

6 5 4 3 2 1

D C B A

NOTE: SEE SHEET T01 FOR PROPOSED AT&T TOWER SCOPE OF WORK



EXISTING ANTENNAS (OTHERS) (TYP.)

INSTALL (1) HOIST GRIP BOLTED TO EXISTING WATER TANK CATWALK PLATE COMMSCOPE PART #860674608-012, USING ½" ø A325 BOLTS W/ NUT AND WASHERS (TYP. 2 BOLTS PER BRACKET). SEE SHEET 11 FOR DETAILS.

NOTE:
ANY UNIVERSAL CLAMPS THAT MIGHT BE ADDED NEED TO BE ATTACHED WITH RUBBER STRIPS TO PREVENT METAL ON METAL CONTACT.

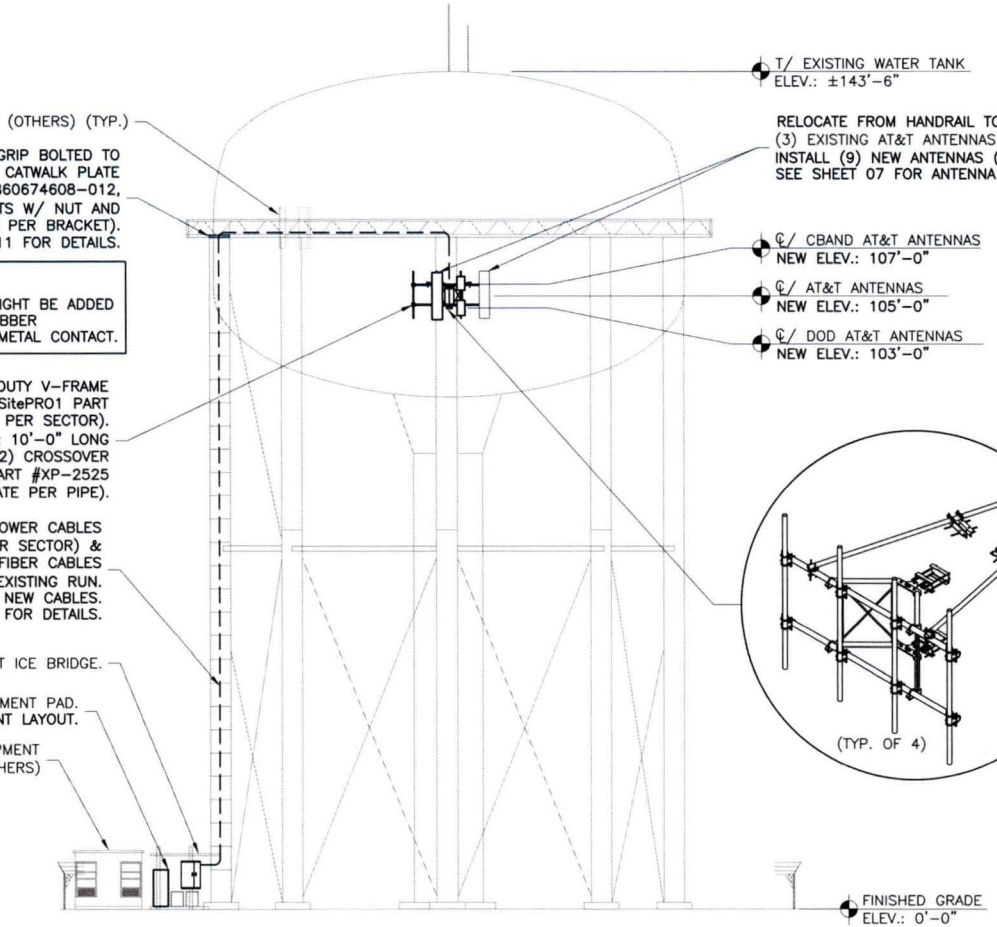
INSTALL (4) NEW 12'-6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS SitePRO1 PART #VFA12-HD-NPHN (TYP.1 PER SECTOR). INSTALL (16) 2⅞" O.D. x 10'-0" LONG ANTENNA MOUNTING PIPES WITH (2) CROSSOVER PLATE KIT COMMSCOPE PART #XP-2525 (TYP.2 CROSSOVER PLATE PER PIPE).

INSTALL (8) NEW #6AWG DC POWER CABLES (TYP.2 PER SECTOR) & (4) NEW 24 PAIR FIBER CABLES (TYP.1 PER SECTOR) TO FOLLOW EXISTING RUN. USE EXISTING BRACETS TO ATTACH NEW CABLES. SEE SHEET 10 FOR DETAILS.

EXISTING AT&T ICE BRIDGE.

EXISTING AT&T EQUIPMENT PAD. SEE SHEET 05 FOR EQUIPMENT LAYOUT.

EXISTING EQUIPMENT SHELTER (OTHERS)



T/ EXISTING WATER TANK
ELEV.: ±143'-6"

RELOCATE FROM HANDRAIL TO NEW SECTOR FRAMES (3) EXISTING AT&T ANTENNAS (TYP.1 PER SECTOR). INSTALL (9) NEW ANTENNAS (TYP.3 PER SECTOR). SEE SHEET 07 FOR ANTENNA LAYOUT

℄/ CBAND AT&T ANTENNAS
NEW ELEV.: 107'-0"

℄/ AT&T ANTENNAS
NEW ELEV.: 105'-0"

℄/ DOD AT&T ANTENNAS
NEW ELEV.: 103'-0"

(TYP. OF 4)

FINISHED GRADE
ELEV.: 0'-0"

1 PROPOSED ELEVATION
SCALE: 3/64"=1'-0"

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SCALE: AS SHOWN | DESIGNED BY: XX | DRAWN BY: XX

AT&T MOBILITY

PROPOSED ELEVATION

DRAWING NUMBER	REV
SINE001153 -06-2	1

11 x 17 "B" SIZE

6 5 4 3 2

(3) EXISTING RAYCAP DC6-48-60-18-8C-EV TO BE REMOVED

EXISTING ANTENNA POSITIONS & AZIMUTHS ARE ASSUMED BASED ON RFDS. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION & COORDINATE WITH AT&T RF ENGINEER FOR ANY DISCREPANCY.

ANTENNA LEGEND:

	PROPOSED ANTENNA
	RELOCATED ANTENNA
	EXISTING ANTENNA
	REMOVED ANTENNA

INSTALL (4) NEW RAYCAP DC9-48-60-24-8C-EV (TYP.1 PER SECTOR).

INSTALL (16) NEW 2⅞" O.D. x 10FT LONG ANTENNA MAST PIPES SitePRO1 #P30120 (TYP.4 PER SECTOR) WITH (2) CROSSOVER PLATE KIT COMMSCOPE #XP-2525 (TYP.2 CROSSOVER PLATE PER PIPE).

INSTALL (4) NEW 12'-6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS SitePRO1 #VFA12-HD-NPNH (TYP.1 PER SECTOR)

INSTALL (4) NEW 4-1/2" O.D. MONOPOLE PIPE MOUNT ASSEMBLY SABRE PART #C10899050 (TYP.1 PER SECTOR)

POSITION 1:
(3) EXISTING AT&T ANTENNAS KMW EPBQ-654L8H8-L2 (96"x21"x6.3") (TYP.1 PER SECTOR)
TO BE RELOCATED TO NEW FRAMES @ ELEV. 105'-0"

POSITION 1:
(3) EXISTING RRH 4T4R B25/66 320W AHFIB,
(3) EXISTING RRH 4T4R B12/14 320W AHLBA &
(3) EXISTING RRH 4X25-WCS-4R
(TYP.1 PER SECTOR) TO BE REMOVED.

POSITION 1:
INSTALL (1) NEW ANTENNA & RELOCATE TO NEW FRAMES
(3) EXISTING ANTENNAS KMW EPBQ-654L8H8-L2 (96"x21"x6.3") (FOR TOTAL OF 4 TYP.1 PER SECTOR).
INSTALL (4) NEW 700 RRUS 4472 B12A &
(4) NEW WCS RRUS 4415 B30 (TYP.1 PER SECTOR).

POSITION 2:
INSTALL (4) NEW ANTENNAS ERICSSON AIR 6419 B77D (28.2"x16.1"x7.2") (TOP) &
(4) NEW ANTENNAS ERICSSON AIR 6419 B77G (31.1"X16.1"X7.3") (BOTTOM) (TYP.1 PER SECTOR)
STACKED OVER ONE ANOTHER WITH MIN.16" VERTICAL & 24" HORIZONTAL SEPARATION.

POSITION 3:
INSTALL (4) NEW ANTENNAS ERICSSON KRE 101 2487/1K (95.9"x19.2"x6.5"),
(4) NEW DB FNET RRUS 4494 B14/B29 &
(4) NEW DB 1900/AWS
RRUS 4890 B25/B66 (TYP.1 PER SECTOR).

INSTALL PROPOSED RRUS USING AT&T APPROVED BRACKETS (TYP. ALL SECTORS).

INSTALL (8) NEW 10FT RRUS MAST PIPES SitePRO1 #P2120 (2 PER SECTOR). ATTACHED TO EXISTING PLATES USING 3/8"ø UBOLTS (TYP. 2 U-BOLTS PER PIPE, 2 PIPE PER SECTOR)
TOP OF RRUS/DC9 CAN NOT EXCEED TOP OF ANTENNA.

INSTALL (4) NEW RAYCAP DC9-48-60-24-8C-EV (TYP.1 PER SECTOR)

(3) EXISTING RAYCAP DC6-48-60-18-8C TO BE REMOVED

EXISTING WATER TANK HANDRAIL

SECTOR ALPHA AZIMUTH 75°

SECTOR BETA AZIMUTH 165°

SECTOR GAMMA AZIMUTH 257°

SECTOR DELTA AZIMUTH 345°

PROFESSIONAL CIVIL ENGINEER
KUOK HONG WONG
E-20703
07/14/2025
STATE OF NEBRASKA

1 EXISTING ANTENNA LAYOUT @ELEV. 118'-0"
SCALE: N.T.S.

2 PROPOSED ANTENNA LAYOUT @ELEV. 105'-0"
SCALE: N.T.S.

amentum
1999 BRYAN STREET, SUITE 3500
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Structural & Civil Engineers
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Fax. (630) 627-1165
APEX JOB No. JA24-085

CNE_BEATRICE NORTHEAST
SITE NO. SINE001153
1203 NORTH 19TH STREET
BEATRICE, NE 68310

AT&T Mobility

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	07/14/25	FINAL CDs REVISED PER NEW DE130	YA	KW	RG
0	07/29/24	FINAL CDs ISSUED FOR CONSTRUCTION	YA	KW	RG
D	07/11/24	90% CDs REVISED HOIST GRIP ATTACHMENT	YA	PB	RG
C	06/19/24	90% CDs REVISED ANTENNA LOCATION	YA	PB	RG
B	06/12/24	90% CDs REVISED PER COMMENTS	YA	PB	RG

SCALE: AS SHOWN | DESIGNED BY: XX | DRAWN BY: XX

AT&T MOBILITY

ANTENNA LAYOUT

DRAWING NUMBER: SINE001153 - 07 | REV: 1

11 x 17 "B" SIZE

SECTOR	ANTENNA NUMBER	POLARITY/PORT	ANTENNA MODEL NUMBER	ANTENNA VENDOR	TMA/ RRU MODEL NUMBER	AZIMUTH	ANTENNA CENTERLINE FROM GROUND	ANTENNA TOP FROM GROUND	ANTENNA TYPE	DC SURGE AND DISTRIBUTION	COAX/ FIBER/ DC POWER CABLES		
											COAX CABLE	OTHER CABLES	LENGTH
A	A1	700	EPBQ-654L8H8-L2 (96"x21"x6.3")	KMW	(1) RRUS 4472 B12A	75°	105'-0"	109'-0"	LTE 700	(4) NEW RAYCAP DC9-48-60-24-8C-EV	-	(8) NEW #6AWG DC POWER CABLES (4) NEW 24 PAIRS FIBER CABLES	±260'-0"
		WCS			(1) RRUS 4415 B30				LTE WCS				
	A2	5G CBAND	AIR 6419 B77D (28.2"x16.1"x7.2")	ERICSSON	INTEGRATED RADIO WITHIN ANTENNA	75°	107'-0"	108'-4"	5G CBAND				
		5G DoD	AIR 6419 B77G (31.1"X16.1"X7.3")		INTEGRATED RADIO WITHIN ANTENNA		103'-0"	104'-4"	5G DoD				
	A3	FNET 700	KRE 101 2487/1K (95.9"X19.2"X6.5")	ERICSSON	(1) RRUS 4494 B14/B29	75°	105'-0"	109'-0"	FNET 700				
		1900			(1) RRUS 4890 B25/B66				LTE/5G 1900				
		AWS							LTE/5G AWS				
	A4												
B	B1	700	EPBQ-654L8H8-L2 (96"x21"x6.3")	KMW	(1) RRUS 4472 B12A	165°	105'-0"	109'-0"	LTE 700				±200'-0"
		WCS			(1) RRUS 4415 B30				LTE WCS				
	B2	5G CBAND	AIR 6419 B77D (28.2"x16.1"x7.2")	ERICSSON	INTEGRATED RADIO WITHIN ANTENNA	165°	107'-0"	108'-4"	5G CBAND				
		5G DoD	AIR 6419 B77G (31.1"X16.1"X7.3")		INTEGRATED RADIO WITHIN ANTENNA		103'-0"	104'-4"	5G DoD				
	B3	FNET 700	KRE 101 2487/1K (95.9"X19.2"X6.5")	ERICSSON	(1) RRUS 4494 B14/B29	165°	105'-0"	109'-0"	FNET 700				
		1900			(1) RRUS 4890 B25/B66				LTE/5G 1900				
		AWS							LTE/5G AWS				
	B4												
C	C1	700	EPBQ-654L8H8-L2 (96"x21"x6.3")	KMW	(1) RRUS 4472 B12A	257°	105'-0"	109'-0"	LTE 700				±170'-0"
		WCS			(1) RRUS 4415 B30				LTE WCS				
	C2	5G CBAND	AIR 6419 B77D (28.2"x16.1"x7.2")	ERICSSON	INTEGRATED RADIO WITHIN ANTENNA	257°	107'-0"	108'-4"	5G CBAND				
		5G DoD	AIR 6419 B77G (31.1"X16.1"X7.3")		INTEGRATED RADIO WITHIN ANTENNA		103'-0"	104'-4"	5G DoD				
	C3	FNET 700	KRE 101 2487/1K (95.9"X19.2"X6.5")	ERICSSON	(1) RRUS 4494 B14/B29	257°	105'-0"	109'-0"	FNET 700				
		1900			(1) RRUS 4890 B25/B66				LTE/5G 1900				
		AWS							LTE/5G AWS				
	C4												
D	D1	700	EPBQ-654L8H8-L2 (96"x21"x6.3")	KMW	(1) RRUS 4472 B12A	345°	105'-0"	109'-0"	LTE 700				±320'-0"
		WCS			(1) RRUS 4415 B30				LTE WCS				
	D2	5G CBAND	AIR 6419 B77D (28.2"x16.1"x7.2")	ERICSSON	INTEGRATED RADIO WITHIN ANTENNA	345°	107'-0"	108'-4"	5G CBAND				
		5G DoD	AIR 6419 B77G (31.1"X16.1"X7.3")		INTEGRATED RADIO WITHIN ANTENNA		103'-0"	104'-4"	5G DoD				
	D3	FNET 700	KRE 101 2487/1K (95.9"X19.2"X6.5")	ERICSSON	(1) RRUS 4494 B14/B29	345°	105'-0"	109'-0"	FNET 700				
		1900			(1) RRUS 4890 B25/B66				LTE/5G 1900				
		AWS							LTE/5G AWS				
	D4												



THESE DRAWINGS ARE PREPARED BASED ON DE130 DATED 06/04/2025, AND DE111 DATED 06/04/2025 GENERAL CONTRACTOR TO VERIFY AND INCORPORATE MOST RECENT VERSION OF RFDS PRIOR TO CONSTRUCTION.

1 ANTENNA MATRIX
NTS

amentum
1999 BRYAN STREET, SUITE 3500
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500 East 22nd Street, Suite B
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B	06/12/24	90% CDs REVISED PER COMMENTS	YA	PB	RG

SCALE: AS SHOWN | DESIGNED BY: XX | DRAWN BY: XX

AT&T MOBILITY

ANTENNA MATRIX

DRAWING NUMBER	REV
SINE001153 -	1

11 x 17 "B" SIZE

6 5 4 3 2 1

D C B A

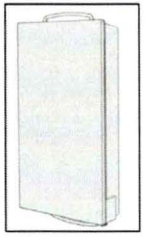


ERICSSON KRE 101 2487/1K ANTENNA

SPECIFICATION:

INPUT:	12X 4.3–10 FEMALE
CONNECTOR POSITION:	BOTTOM
ADJUSTMENT MECHANISM:	FLEXRET, CONTINUOUSLY ADJUSTABLE
WIND LOAD (AT RATED WIND SPEED: 150 KM/H): N/lbf	
	FRONTAL: 1120 / 252
	MAXIMAL: 1270 / 286
	LATERAL: 440/ 99
EPA m2/ft2:	FRONTAL: 1.029 / 11.08
	MAXIMAL: 1.166 / 12.55
	LATERAL: 0.404 / 4.35
WIND LOAD STANDARD:	EN 1994–1–4
WIND LOAD LABORATORY	TU DRESDEN; GÖTTINGER–TYPE WIND TUNNEL
MAX. WIND VELOCITY:	241 KM/H / 150 MPH
HEIGHT / WIDTH / DEPTH:	2437 / 488 / 164 MM
	95.9 / 19.2 / 6.5 INCHES
CATEGORY OF MOUNTING HARDWARE: XM (X–MEDIUM)	
WEIGHT:	47.0/51.5 (CLAMPS INCL.) KG
	103.6/113.5 (CLAMPS INCL.) LB
PACKING SIZE:	2570 / 556 / 310 MM
	101.2 / 21.9 / 12.2 INCHES
SCOPE OF SUPPLY: PANEL,	FLEXRET AND CLAMPS
	FOR ø55–115 MM / ø2.2–4.5 INCHES

1 ERICSSON KRE 101 2487/1K ANTENNA
SCALE: N.T.S.

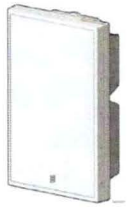


ERICSSON AIR 6419 B77D

C–BAND MACRO RADIO
ERICSSON AIR 6419 B77D IS A TDD–BASED 64T64R TRP.

- 3.7 – 3.98 GHZ OPERATIONAL BANDWIDTH
- 64T64R, MAX 16 LAYERS (DL), 8 LAYERS (UL), 192 ANTENNA ELEMENTS (AES)*, 32 SUB–ARRAYS
- VERTICAL AND HORIZONTAL BEAMFORMING
- 320W TOTAL OUTPUT POWER, 79 DBM EIRP ** (ANGULAR AVERAGE, DUAL POLARIZATION)
- OBW/IBW: 200 MHZ
- NR ONLY
- 3 X 10/25 GBPS ECPRI PORTS
- DIMENSIONS: 28.2" H X 16.1" W X 7.2" D
- 63 LBS. (W/O MOUNTING KIT)
- MAX POWER CONSUMPTION/HEAT DISSIPATION: 1135W (FOR DIMENSIONING)
- CONVECTIONAL COOLING

2 AIR 6419 B77D ANTENNA
SCALE: N.T.S.



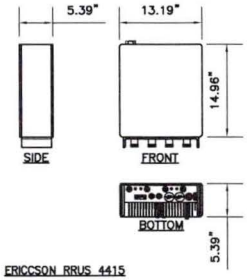
ERICSSON AIR 6419 B77G

- ERICSSON AIR 6419 has a total of 2ECPRI connections @ 25.8 Gbps, 1 DC Power cable connection
- Operates over B77G DOD band (3.4–3.6 GHz)
- Breaker size = 45ADC, DC Power Consumption = 1280W (for dimensioning)
- Dimensions

–Height: 31.1" (790 mm)
–Width: 16.1" (408 mm)
–Depth: 7.3" (186 mm)

- Weight, excl. mounting hardware = 44lbs(20 kg)
- Weight with Mounting Hardware = 55.4lbs(25.2 kg)
- Max Frontal Wind Load @ 42m/s = 454 N
- Horizontal Separation Required between AIR 6419 = 4" (100mm)
- Minimum Vertical Space Required below/above AIR 6419 = 12" (300mm)
- Minimum Height Above Users = 16.4' (5m)

3 AIR 6419 B77G ANTENNA
SCALE: N.T.S.



ERICCSON RRUS 4415

DIMENSIONS, HxWxD: 14.96"X13.19"x5.39"

WEIGHT, WITHOUT MOUNTING KIT: 46 lbs (21 kg)

STACKING OF RRH'S IS NOT PERMITTED.
NO PAINTING OF RRU'S IS ALLOWED.

4 ERICCSON RRUS 4415
SCALE: N.T.S.



RADIO 4494 B14/B29

SPECIFICATION:

- DUAL BAND 4T4R/2T
- PA POWER:
  - B14: 4x40W
  - B29: 2x40W
- B14: L5, L10, N5, N10, ESS10, NB–IoT(IB, GB & SA)
- B29: L3, L5, L10
- CPRI 2x2.5/4.9/9.8/10.1/24.3 GBPS
- eCPRI 2x10.3/25.8 GBPS
- FRONT AREA: 384MM X 444MM (15.1X17.5 INCHES)
- DEPTH: 143MM (5.6 INCHES); (24.0 LITER)
- WEIGHT: 26KG
- –48 VDC 3–WIRE OR 2–WIRE (SINGLE DC–CONNECTOR)
- AISG TMA & RET SUPPORT VIA RS–485 OR RF CONNECTORS
- 2 EXTERNAL ALARM
- OPTIONAL FAN FOR INCREASED SITE FLEXIBILITY
- IP 65, –40 C TO +55 C
- POWER CONSUMPTION: 15% REDUCTION COMPARED TO 4478B14 + 2012 B29 FOR THE SAME CONFIGURATION.



5 ERICCSON RRUS 4494 B14/B29
SCALE: N.T.S.



RADIO 4890 B25/B66

SPECIFICATION:

- PORTS, 4T8R PER BAND
- B2/B25: 4X60W
- B66: 4X60W
- UP TO 480W IN TOTAL WITHOUT FAN (–40 TO +55 ?C)
- L (≥5MHZ), NR, ESS, NB–IOT (IB AND GB)
- 2X 2.5/4.9/9.8/10.1/24.3 GBPS CPRI
- ECPRI
- FRONT AREA: 384MM X 444MM (15.1X17.5 INCHES)
- DEPTH: 176MM (6.9 INCHES) –> 30.0 LITER (ESTIMATE)
- DUAL LAYER FILTER, ONE LAYER RX–ONLY
- 31KG (68 LBS)
- INTERNAL PIMC*
- –48 VDC 3–WIRE OR 2–WIRE (SINGLE DC–CONNECTOR)
- IMPROVED ENERGY EFFICIENCY
- AISG TMA & RET SUPPORT VIA RS–485 OR RF CONNECTORS
- 2 EXTERNAL ALARM
- CONVECTIONAL COOLING
- OPTIONAL FAN FOR INCREASED SITE FLEXIBILITY
- IP 65, –40 TO +55 ?C

6 ERICCSON RRUS 4890 B25/B66
SCALE: N.T.S.



RADIO 4472 B12A

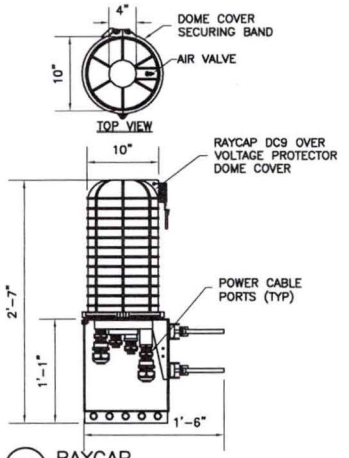
SPECIFICATION:

- DIMENSIONS (HxWxD) 354mm x 261mm x 145mm/ 13.9261"x10.3"x5.7"
- WEIGHT – 14kg/ 6.4LB



- 4T4R SINGLE–BAND FDD
- OUTPUT POWER: 4X60W
- SIZE 13 LITERS,
- CPRI/ECPRI, NG–OLLS
- CPRI 2X2.5/4.9/9.8/10.1/24.3 GBPS ,
- ECPRI 2X10.3/25.8 GBPS
- –48 VDC 3–WIRE OR 2–WIRE (SINGLE DC–CONNECTOR)
- AISG TMA & RET SUPPORT VIA RS–485 OR RF CONNECTORS
- SUPPORT FOR UP TO 12DB TMA
- EXTERNAL ALARM
- CONVECTIONAL COOLING WITH OPTIONAL FAN FOR INCREASED SITE FLEXIBILITY
- MOUNTING OPTIONS: RAIL, WALL AND POLE/MAST
- IP 65, –40 TO +55

7 ERICSSON RRUS 4472 B12A
SCALE: N.T.S.



8 RAYCAP DC9–48–60–24–8C–EV
SCALE: N.T.S.

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SCALE: AS SHOWN | DESIGNED BY: XX | DRAWN BY: XX

AT&T MOBILITY

ANTENNAS & RRUS SPECIFICATIONS

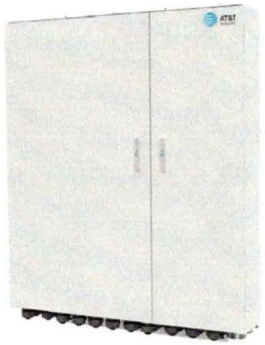
DRAWING NUMBER	REV
SINE001153 – 09	1

11 x 17 "B" SIZE

6 5 4 3 2 1

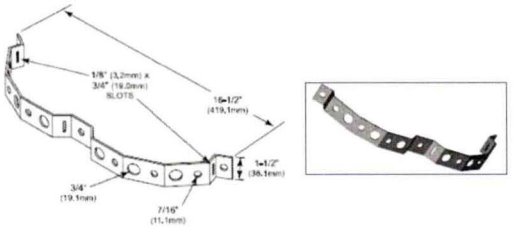
D C B A

DC SURGE PROTECTION SOLUTIONS FOR BASE STATION –
OUTDOOR RATED DC50–48–60–96–50F
ELECTRICAL DISTRIBUTION PLUS DISCRETE CIRCUIT SURGE
PROTECTION & FIBER MANAGEMENT JUNCTION BOX



FIBER CABLES CONNECTION METHOD:
DUPLEX LC ADAPTERS
OPERATING TEMPERATURE:
–40° C TO +55° C
STORAGE TEMPERATURE:
–40° C TO +85° C
ENCLOSURE MATERIAL: ALUMINUM
ENCLOSURE DIMENSIONS (W X H X D):
40" X 52.24" X 9"
WEIGHT: 165 LBS
CONDUIT FITTINGS:
3– 2" CONDUIT FITTINGS,
2– 2½" CONDUIT FITTINGS,
1– 1" CONDUIT FITTING
CABLE GLANDS (KIT INCLUDED):
VARIOUS CABLE GLANDS

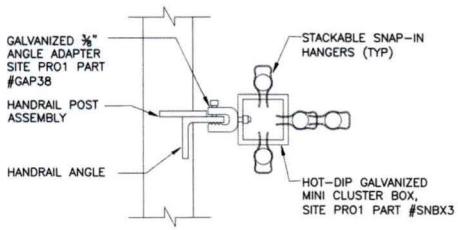
1 DC50–48–60–96–50F
SCALE: N.T.S.



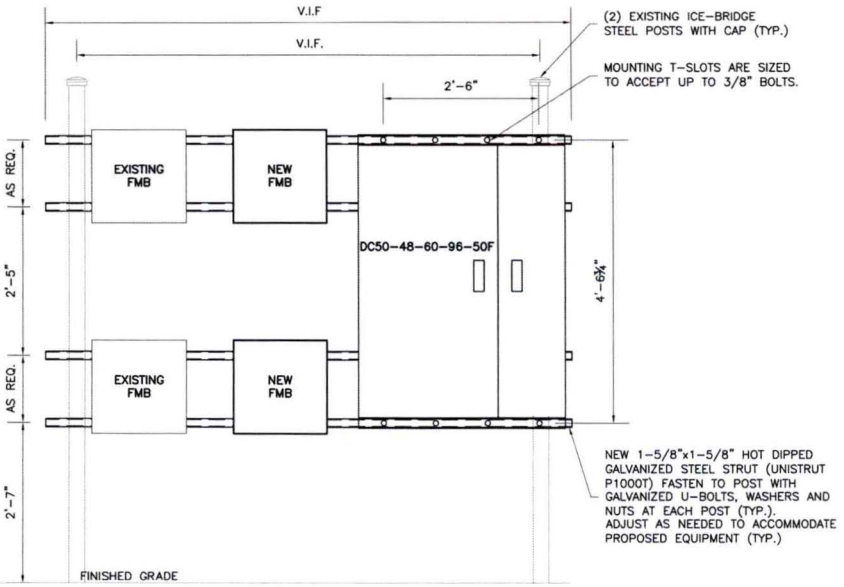
COMMSCOPE PART #RM–USBG OR APPROVED EQUAL:

APPLICATION:	COAXIAL SUPPORT FOR MONOPOLES
SIZE:	3/4" (19.1 MM) AND 7/16" (11.1 MM) HOLES
DESIGN:	COAXIAL CABLE SUPPORT FOR ROUND MEMBERS
FEATURE:	IDEAL FOR CO–LOCATION
MOUNTS TO:	ROUND MEMBERS
MATERIAL:	HOT DIP GALVANIZED STEEL
INCLUDES:	BRACKET
ORDER SEPARATELY:	BANDING

3 UNIVERSAL ROUND MEMBER SUPPORT BRACKET



4 HANDRAIL CABLE MOUNTING DETAIL
SCALE: NTS



2 H–HRAME DETAIL
SCALE: N.T.S.



SITE PRO1 NUMBER:
GALVANIZED 3/8" ANGLE ADAPTER
SITE PRO1 PART #GAP38

5 ANGLE ADAPTER
SCALE: NTS



SITE PRO1 PART NUMBER:
12SS–A
STACKABLE SNAP–IN HANGERS
FOR 1/2" CORRUGATED CABLE

78SS–A
STACKABLE SNAP–IN HANGERS
FOR 7/8" CORRUGATED CABLE

114SS–A
STACKABLE SNAP–IN HANGERS
FOR 1–1/4" CORRUGATED CABLE

158SS–A
STACKABLE SNAP–IN HANGERS
FOR 1–5/8" CORRUGATED CABLE

6 STACKABLE SNAP–IN HANGERS
SCALE: NTS



SITE PRO1 PART NUMBER:
SA–ISO

USE THIS ISOLATOR IN
PIM–SENSITIVE AREAS TO PREVENT
METAL–TO–METAL CONTACT WHEN
USING SNAP–IN HANGERS.
- REDUCE PIM BY AVOIDING METAL–TO–METAL CONTACT FOR SNAP–IN HANGERS
- ISOLATOR SNAPS BETWEEN HANGERS AND MOUNTING SURFACE AND BETWEEN STACKED HANGERS

7 PIM ISOLATOR FOR SNAP–IN HANGERS
SCALE: NTS

PROFESSIONAL CIVIL ENGINEER
KUOKHONG WONG
E–20703
07/14/2025
STATE OF NEBRASKA

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AT&T MOBILITY
EQUIPMENT SPECIFICATIONS

DRAWING NUMBER	REV
SINE001153 – 10	1

11 x 17 "B" SIZE

6 5 4 3 2 1
D C B A



HOT-DIP GALVANIZED PIPE – SitePro1

P296 – 2⅜" O.D. x 96" LONG PIPE, WEIGHT, 27.8 LB

P2120 – 2⅜" O.D. x 120" LONG PIPE, WEIGHT, 37 LB

P2126 – 2⅜" O.D. x 126" LONG PIPE, WEIGHT, 38 LB

P2174 – 2⅜" O.D. x 174" LONG PIPE, WEIGHT, 56 LB

P3096 – 2⅞" O.D. x 96" LONG PIPE, WEIGHT, 49 LB

P30120 – 2⅞" O.D. x 120" LONG PIPE, WEIGHT, 80 LB

P30252 – 2⅞" O.D. x 252" LONG PIPE, WEIGHT, 122 LB

P396 – 3½" O.D. x 96" LONG PIPE, WEIGHT, 60.8 LB

P3120 – 3½" O.D. x 120" LONG PIPE, WEIGHT, 80 LB

SCHEDULE: 40

MATERIAL TYPE HOT DIP GALVANIZED STEEL

1 HOT-DIP GALVANIZED PIPE
SitePro1



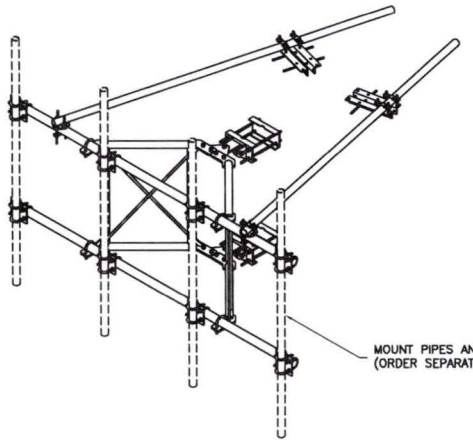
CROSSOVER PLATE, JOINS 2-7/8 IN TO 2-7/8 IN OD ROUND MEMBERS

GENERAL SPECIFICATIONS: MOUNTING CROSSOVER PLATE

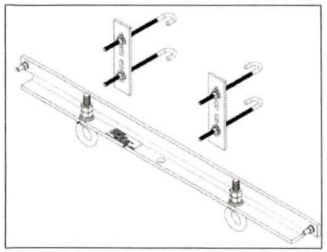
DIMENSIONS:
MOUNTING DIAMETER, MAXIMUM 73.025 MM / 2.875 IN
MOUNTING DIAMETER, MINIMUM 73.025 MM/ 2.875 IN
MATERIAL THICKNESS 9.525 MM / 0.375 IN

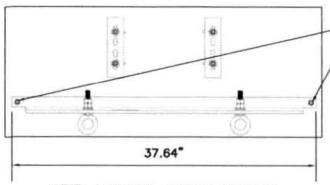
MATERIAL SPECIFICATIONS: HOT DIP GALVANIZED STEEL

2 COMMSCOPE XP-2525
SCALE: NTS



3 V-FRAME ASSEMBLY WITH TWO STIFF ARMS
SitePRO1 PART #VFA12-HD-NPHN





INSTALL (1) HOIST GRIP BOLTED TO EXISTING WATER TANK CATWALK PLATE, USING ½" ø A325 BOLTS W/ NUT AND WASHERS (TYP. 2 BOLTS PER BRACKET).

GRIP ANCHOR, CABLE LADDER
COMMSCOPE PART#860674608-012

GRIP ANCHOR, CABLE LADDER
COMMSCOPE PART#860674608-012

- ANY ARRANGEMENTS OF THE EYEBOLTS IS ACCEPTABLE
- MAXIMUM LOADING CAPACITY PER EYEBOLT = 1000 LBS
- MAXIMUM LOADING CAPACITY IN ANY COMBINATION = 1000 LBS
- NOT TO BE USED FOR HOISTING
- CABLE LADDER TO BE INSPECTED BY COMPETENT PERSON TO ENSURE PROPER INSTALLATION PRIOR TO INSTALL
- DESIGNED TO BE UTILIZED ON "CL-1210-U" OR "CL-1220-U"

4 HOIST GRIP DETAIL

PROFESSIONAL CIVIL ENGINEER
KUOK HONG WONG
E-20703
07/14/2025
STATE OF NEBRASKA

amentum
1999 BRYAN STREET, SUITE 3500
DALLAS, TX 75201

Apex Engineers, Inc.
Structural & Civil Engineers
500 East 22nd Street, Suite B
Lombard, Illinois 60148
Ph. (630) 627-1800
Fax. (630) 627-1165
APEX JOB No. JA24-085

CNE_BEATRICE NORTHEAST
SITE NO. SINE001153
1203 NORTH 19TH STREET
BEATRICE, NE 68310

AT&T Mobility

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	07/14/25	FINAL CDs REVISED PER NEW DE130	YA	KW	RG
0	07/29/24	FINAL CDs ISSUED FOR CONSTRUCTION	YA	KW	RG
D	07/11/24	90% CDs REVISED HOIST GRIP ATTACHMENT	YA	PB	RG
C	06/19/24	90% CDs REVISED ANTENNA LOCATION	YA	PB	RG
B	06/12/24	90% CDs REVISED PER COMMENTS	YA	PB	RG

SCALE: AS SHOWN | DESIGNED BY: XX | DRAWN BY: XX

AT&T MOBILITY
CONSTRUCTION DETAILS

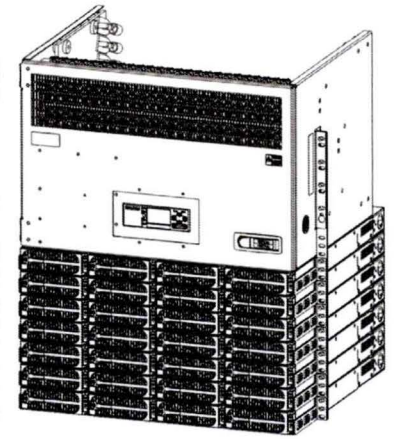
DRAWING NUMBER	REV
SINE001153 – 11	1

11 x 17 'B' SIZE

6 5 4 3 2

D C B A

Infinity S (NE-S) -48V/-58V System



NES4858-23-AC5H-PS28-DC60EM-LVBD

Primary /Secondary Voltage | 23" wide | AC Input AC5H = Terminal Strip per Rectifier | # of Power Slots | # of Distribution Positions | Modbus RTU Interface | LVBD options

Overview

The Infinity S DC power system supports dual voltage operation using rectifier and battery reserve to provide -48VDC primary voltage and DC/DC converters to provide -58VDC secondary voltage. Seven 1U power shelves accept rectifiers and converters interchangeably in their 28 power slots. The only restriction is whether AC power is applied to the slot. DC distribution includes 60 bullet breaker position fully selectable between -48V and -58V and 10 GMT -48V fuse positions. A low voltage battery disconnect (LVBD) protects batteries from damage from low voltage conditions.

The Galaxy Pulsar Plus Controller monitors and controls system components via a multi-drop RS485 digital communications bus. System status, parameters, settings and alarm thresholds can be viewed and configured from the front display. Assignment and configuration of alarm input and output relays can be performed from a laptop computer connected to the LAN port, or by remote access through a secure network connection to the LAN port. This system also includes a RS232 to Modbus RTU converter and a Lantronix Fox 3 series cellular telematics gateway module that provides secure wireless connectivity to the network.

Important safety instructions

- Save these instructions.
- Read and follow all safety statements, warnings and precautions in this manual before installing, maintaining or repairing this equipment.
- This equipment is not suitable for use in locations where children are likely to be present.
- This equipment is intended only for use in restricted access areas.

Consignes de sécurité importantes

- Conservez ces instructions.
- Lisez et suivez toutes les consignes de sécurité, les avertissements et les précautions de ce manuel avant d'installer, d'entretenir ou de réparer cet équipement.
- Cet équipement n'est pas adapté à une utilisation dans des endroits où des enfants sont susceptibles d'être presents.
- Cet équipement est destiné uniquement à être utilisé dans des zones à accès restreint.

1 OMNION INFINITY S W–58V POWER SYSTEM

Infinity NE DC/DC Converter NE070DC58A Technical Specification

Electrical Specifications

Nominal Operating Voltage	40-58VDC
Absolute Voltage Limits	80VDC
Nominal DC Input current	70A at 54.5VDC input
Max DC input current	100A (at VIN Minimum, IOUT Maximum)



Voltage range	54/58VDC(the output max can be set to 59.6V by Vcmd)*
Output Current	70 A at 58 VDC
Regulation (with controller)	±0.5%
Ripple	100 mVRMS
Efficiency	95% (at normal input and 50% load)
Temperature Derating	Derate 2%/DegC from 55 C up to 75 C
Input Voltage Derating	Linear derate on VIN from 44V (4060W) to 40V (3600W) at nominal ambient temperature
OVP	61.5Vmin3Vtypical , 64.5Vmax

2 OMNION NE070DC58A CONVERTER
–48 VDC TO –58 VDC

NE075AC48ATEZ Technical Specification

Electrical Specifications





INPUT VOLTAGE & OUTPUT POWER	
Response to AC Input Voltage	Operates according to figure, turning on at all VIN above 90VAC. Output power 1200W < 140VAC 4087W > 175VAC Output power follows linear path between defined points 305V max excursion voltage
AC Input Current	15A max @120VAC 22-16A @200-277VAC
Power Factor	0.98 @ loads over 50%
THD	< 5% @ loads over 50%
Holdup	Typical, 15ms @56A load
Frequency	45-66Hz or DC

OUTPUT	
VOUT	+42–58VDC range Default = 54.5 VDC
IOUT	22A @ low input line 75A @ high input line 50A @ high line in older shelves
Regulation	± 0.05 w/controller
Ripple	100 mVRMS , 250 mVP-P
Efficiency	Approaching 95%
Soft Start	Starts up into fully discharged batteries

3 OMNION RECTIFIER
NE075AC48ATEZ

amentum
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B	06/12/24	90% CDs REVISED PER COMMENTS	YA	PB	RG

SCALE: AS SHOWN | DESIGNED BY: XX | DRAWN BY: XX

AT&T MOBILITY
DC POWER PLANT SPECIFICATION

DRAWING NUMBER	REV
SINE001153 – 12	1

11 x 17 'B' SIZE

6 5 4 3 2 1

D C B A

STAKE YOUR CLAIM

BEATRICE

CITY • BOARD OF PUBLIC WORKS

AGENDA ITEM

Subject: Second Amendment to Tower and Ground Space Lease with New Cingular Wireless, as recommended by the Board of Public Works

For Agenda of: November 2, 2026

Exhibit(s):

Date Submitted: October 28, 2026

Recommend a resolution entering into the Second Amendment to the Tower and Ground Space Lease between the City and New Cingular Wireless PCS, LLC, for the water tower located at 1203 North 19th Street, Beatrice, Nebraska, to the Mayor and City Council

Tobias J. Tempelmeyer, City Administrator/General Manager, reported to the Board New Cingular Wireless currently has a lease for the north water tower. New Cingular Wireless has requested to install additional antennas on the water tower. Tempelmeyer stated the Amendment increases the lease payment $500.00 per month and has a one (1) time payment to the City of $10,000. Tempelmeyer noted the Amendment also states the City is required to give a six (6) month advance notice for removal of their equipment, and if New Cingular Wireless does not comply, they will be charged $5,000 for damages.

Moved by Jones, seconded by Hartley, that the Mayor and City Council enter into the Second Amendment to the Tower and Ground Space Lease between the City and New Cingular Wireless PCS, LLC, for the water tower located at 1203 North 19th Street, Beatrice, Nebraska.

Roll Call: Yea: Baehr, Hartley, Jones, Trauernicht
Nay: None

MOTION CARRIED.