ROCK ISLAND
ILLINOIS

Preservation Commission Meeting Agenda
October 30, 2024 - 5:30 PM
Lower Level Conference Room, City Hall, Basement
1528 Third Avenue, Rock Island, IL

1. Call to Order

2. Roll Call

Commissioners: Jeff Dismer, Addison Kimmel, Deb Kuntzi, Diane Oestreich, Bruce Peterson, Mark Schwiebert, Alan Carmen, Zach Campbell, Estlin Feigley

3. Public Comment

4. Minutes

a. Approval of the September 25, 2024 Meeting Minutes

Motion	Move to approve the September 25, 2024 Meeting Minutes
VV	Voice vote is needed.

5. Other Business/New Business

a. Case 2024-06: Certificate of Appropriateness application for the 1203 45th Street

Motion:	Move to approve the Certificate of Appropriateness application for 1203 45th Street for the work as described.
RC	Roll Call vote is needed.

b. Case 2024-07: Certificate of Appropriateness application for the 1601 21st Street

Motion:	Move to approve the Certificate of Appropriateness application for 1601 21st Street for the work as described
RC	Roll Call vote is needed.

c. Case 2024-08: Certificate of Appropriateness application for 1635 20th Street

Motion:	Move to approve the Certificate of Appropriateness application for 1635 20th Street for the work as described
RC	Roll Call vote is needed.

d. Case 2024-09: Certificate of Appropriateness for 1718 21st Street

Motion:	Move to approve the Certificate of Appropriateness application for 1718 21st Street for the work as described
RC	Roll Call vote is needed.

e. Invitation to comment on AT&T Mobility LLC project on the water tower at 1404 36th Street.

Motion:	Move to have no objection to the proposed work.
VV	Voice vote is needed.

f. Discussion on Certified Local Government (CLG) grant opportunities.

g. Discussion on local financial incentives for historic properties.

6. Adjourn

This agenda may be obtained in accessible formats by qualified persons with a disability by making appropriate arrangements from 8:00 am to 5:00 pm, Monday through Friday, by contacting the City Clerk's Office at (309) 732-2010 or visiting in person at: 1528 Third Avenue, Rock Island, IL 61201.

Rock Island Historic Preservation Commission Minutes
Lower Level Conference Room (Basement), City Hall
1528 3rd Avenue
September 25, 2024
5:30 PM

Voting Members Present	Jeff Dismer Addison Kimmel Diane Oestreich Alan Carmen Mark Schwiebert Zach Campbell Estlin Fiegley
Voting Members Absent	Deb Kuntzi Bruce Peterson
Staff Present	Eunice Amissah-Mensah

Call to Order and Roll Call
Chair Oestreich called the meeting to order at 5:30 PM and read the roll call.

Public Comment
No members of the public were present for general comments, so the meeting continued.

Approval of the Previous Meeting Minutes

Dismer moved to approve the meeting minutes for August 28, 2024 as amended Schwiebert seconded the motion. The motion carried unanimously on a vote of 7 to 0.

Public Hearing

a. 2024-07: Landmark Designation Application for the Smyth-Jackson House at 824 20th Street

Chair Oestreich asked for a motion to approve the landmark designation for 824 20th Street. Carmen moved to approve the request. Schwiebert seconded the motion. The motion carried unanimously on a vote of 6 to 0.

Other Business/ New Business
Resolution on the Centennial Bridge

Commissioner Dismer amended the resolution to include the 2021 date for the $6 million dollars that was allocated for the painting of the Centennial Bridge.

Commissioner Schwiebert suggested that the Community and Economic Development Departments take a look at the economic impact of replacing the bridge and conduct a traffic count on the bridge.

Chair Oestreich asked for a motion to approve the Centennial Bridge resolution. Dismer moved to approve the resolution with the date addition. Schwiebert seconded the motion. The motion carried unanimously on a vote of 7 to 0.

Commissioners discussed putting the resolution before the City Council during a study session and Downtown Alliance.

Adjournment
Chair Oestreich called for a motion to adjourn the meeting. Schwiebert moved to adjourn the meeting. Campbell seconded the motion. The meeting adjourned at 6:15 PM.

Minutes submitted by Eunice Amissah-Mensah.

Memorandum

To: Rock Island Preservation Commission

From: Eunice Amissah-Mensah, Urban Planner, Tanner Osing, Planning & Zoning Manager

Subject: Case 2024-06: Certificate of Appropriateness application for the 1203 45th Street

Motion:	Move to approve the Certificate of Appropriateness application for 1203 45th Street for the work as described.
RC	Roll Call vote is needed.

Date: October 30, 2024

Introduction and Background Information:

Angela Lynch has applied for a Certificate of Appropriateness (COA) for the Borg House at 1203 45th Street. The Borg House (1930) is a two-story, rare prairie style residence associated with the invention of sliding automobile clutch. The proposed scope of work involves the following:

- Replace the wood railing on the north side of the house with a brown textured Georgian level (aluminum extrusion) railing. The 4ft level railing will be 46 ¾ inches in length and 3 ¾ inches between holes with 10-3/4 square baluster connects that is secured with a 3/4” stainless steel sheet metal screw. The Georgian Series Top Rail is 2 3/4 inches wide and the bottom rail is 1 1/2 inches wide. The height of the rail from top to bottom is 37-1/4″.
- The alternative will be to leave the flat roof without a railing as there is no door on that side of the house.

Staff believe the rectangular balustrade suits the prairie style house despite its lack of decorative finials and material difference. Althougth the railing is a complementing feature, it's not called out as a main identifying feature for the Borg House in the landmark nomination. Overall, staff believe the proposed railing replacement meets the residential design guidelines and complies with the Preservation Ordinance.

Lastly, staff do not recommend the alternative of the existing railing being removed and not replaced.

Previous Council Action (if any):

NA

Budget Impact:

NA

Additional Information as applicable (i.e. provide alternative options, community or staff input, staffing impact; resident impact; etc.):

NA

Council Goal (if applicable):

NA

Recommendation:

The Community Development Department recommends that the Preservation Commission approve the Certificate of Appropriateness for proposed scope of the railing replacement.

Submitted by: Eunice Amissah-Mensah, Urban Planner

Approved by:

Image of railing example provided by the applicant

Sample look – Aluminum railing to be used for replacement

Figure 1: Photo showing the property from along 45th Street

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Figure 2: View of railing from the north west section of the house

Figure 3: Railing to be replaced on the north side of the house from along 12th Avenue

Figure 4: Closer view of the railing from north east side of the house

Memorandum

To: Rock Island Preservation Commission

From: Eunice Amissah-Mensah, Urban Planner, Tanner Osing, Planning & Zoning Manager

Subject: Case 2024-07: Certificate of Appropriateness application for the 1601 21st Street

Motion:	Move to approve the Certificate of Appropriateness application for 1601 21st Street for the work as described
RC	Roll Call vote is needed.

Date: October 30, 2024

Introduction and Background Information:

Karen Young has applied for a Certificate of Appropriateness (COA) for property at 1601 21st Street, a locally designated landmark located in the Highland Park District. The proposed scope of work to be considered for the COA is the replacement of wood windows on the south side of the garage for wood windows of the same dimensions. The proposed windows will be fixed windows and have four panes.

Additionally, the applicant plans to repair the south side wall of the garage that was struck by a car. This includes framing, patching stucco, and replacing the wood trim with matching wood trim. This work is considered to be a replacement-in-kind.
Overall, staff believe the proposed window replacement meets the residential design guidelines and complies with the Preservation Ordinance. The windows will be wood windows and on a secondary structure.

Previous Council Action (if any):

NA

Budget Impact:

NA

Additional Information as applicable (i.e. provide alternative options, community or staff input, staffing impact; resident impact; etc.):

NA

Council Goal (if applicable):

NA

Recommendation:

The Community Development Department recommends that the Preservation Commission approve the Certificate of Appropriateness for the work as described.

Submitted by: Eunice Amissah-Mensah, Urban Planner

Approved by:

Memorandum

To: Rock Island Preservation Commission

From: Eunice Amissah-Mensah, Urban Planner, Tanner Osing, Planning & Zoning Manager

Subject: Case 2024-08: Certificate of Appropriateness application for 1635 20th Street

Motion: Move to approve the Certificate of Appropriateness application for 1635 20th Street for the work as described

RC Roll Call vote is needed.

Date: October 30, 2024

Introduction and Background Information:

An application for a Certificate of Appropriateness (COA) has been received for the Looney House at 1635 20th Street, located in the Highland Park District. The application for the Certificate of Appropriateness covers replacing the exterior front, side and rear doors of the house with the same design and replacing the man door for the garage with a similar door and knob and lock.

The other proposed scope of work that includes replacing the shingles on wrap around porch with CertainTeed carriage house shingles, repairing rotted wood around the house (crown moulding, third story railings) with the same dimensions, replacing rotted boards on the ceiling of porch with 1x4 white tongue and groove with the same dimensions, replacing the flat roofing on the ceiling with same epdm black rubber roofing that already exists, removing the ladder in front of house from second floor to third floor and patch ceiling with same tongue and groove, are all considered to be a replacement-in-kind.

The applicant has provided sample materials of the doors that will be replaced. The applicant notes that the existing man door on the garage is warped. Additionally, the applicant notes that all doors will be painted to match the style of the house. All the proposed doors are fiberglass as opposed to wood.

Overall, staff believe the proposed exterior side and rear door replacements meet the residential design guidelines and comply with the Preservation Ordinance. However, staff contend that front door does not meet the residential design guidelines. Staff recommend that the applicant explore designs with similar detailing as the existing doors that are made of wood and do not have dividing lights.

Previous Council Action (if any):

NA

Budget Impact:

NA

Additional Information as applicable (i.e. provide alternative options, community or staff input, staffing impact; resident impact; etc.):

NA

Council Goal (if applicable):

NA

Recommendation:

The Community Development Department recommends that the Preservation Commission approve the Certificate of Appropriateness for the replacement of the side door (south side of house) and the man door on the garage, but deny the proposed replacement of the front door.

Submitted by: Eunice Amissah-Mensah, Urban Planner

Approved by:


1635


1635
1635

Figure

Memorandum

To: Rock Island Preservation Commission

From: Eunice Amissah-Mensah, Urban Planner, Tanner Osing, Planning & Zoning Manager

Subject: Case 2024-09: Certificate of Appropriateness for 1718 21st Street

Motion:	Move to approve the Certificate of Appropriateness application for 1718 21st Street for the work as described
RC	Roll Call vote is needed.

Date: October 30, 2024

Introduction and Background Information:

Linda Anderson has applied for a Certificate of Appropriateness (COA) for property at 1718 21st Street, a locally designated landmark located in the Highland Park District. The proposed scope of work to be considered for the Certificate of Appropriateness is the replacement of the wood square bases of the front porch support columns with composite wood. This is being proposed to prevent rot with the direct contact on the concrete.

The other proposed scope of work includes repairing the rotting wood on the front porch, restoring the front porch columns with natural wood, replacing soffit areas that are damaged or failing with natural wood and repairing the backyard and side fence with natural wood of the same style is considered to be a replacement-in-kind.

Staff believe the composite square bases will not affect the historical integrity of the house. This proposed change meets the residential design guidelines and complies with the Preservation Ordinance.

Previous Council Action (if any):

NA

Budget Impact:

NA

Additional Information as applicable (i.e. provide alternative options, community or staff input, staffing impact; resident impact; etc.):

NA

Council Goal (if applicable):

NA

Recommendation:

The Community Development Department recommends that the Preservation Commission approve the Certificate of Appropriateness for the work as described.

Submitted by: Eunice Amissah-Mensah, Urban Planner

Approved by:

21 B Street
Burlington, MA 01803
ebiconsulting.com

October 10, 2024

Preservation Commission, Planning & Zoning
Attn: Jeff Dismer, Member
1528 Third Avenue
Rock Island, Illinois 61201
309.732.2900
cedmail@rigov.org

Rock Island Preservation Society
PO Box 3261, Rock Island, IL 61204-3261
Info@RockIslandPreservationSociety.org

Subject: Invite to Comment
14th Avenue WT RI
1405 36th St, Rock Island, Rock Island County, Illinois 61201
EBI Project No.: 028296-PR

Pursuant to Section 106 of the National Historic Preservation Act, the regulations promulgated thereunder and interagency agreements developed thereto, EBI Consulting, Inc., on behalf of AT&T Mobility, LLC, provides this notice of a proposed telecommunications facility installation at the address listed above.

EBI would like to inquire if you would be interested in commenting on this proposed project. Please refer to the attached plans for additional details.

Please note that we are requesting your review of the attached information as part of the Section 106 process only and not as part of the local zoning process. We are only seeking comments related to the proposed project's potential effect to historic properties.

Please submit your comments regarding the proposed project's potential effect on historic properties to EBI Consulting, to my attention at 21 B Street, Burlington, MA 01803, or contact me via telephone at the number listed below. Please reference the EBI project number. We would appreciate your comments as soon as possible within the next 30 days.

Note that this project will be entered into the Federal Communication Commission's e106 System, which will send notifications of the project throughout the Section 106 process.

Sincerely,

21 B Street
Burlington, MA 01803
ebiconsulting.com

Caitlin Mee
Architectural Historian II
916.217.3831
cmee@ebiconsulting.com

Appendices: Maps and Project Drawings

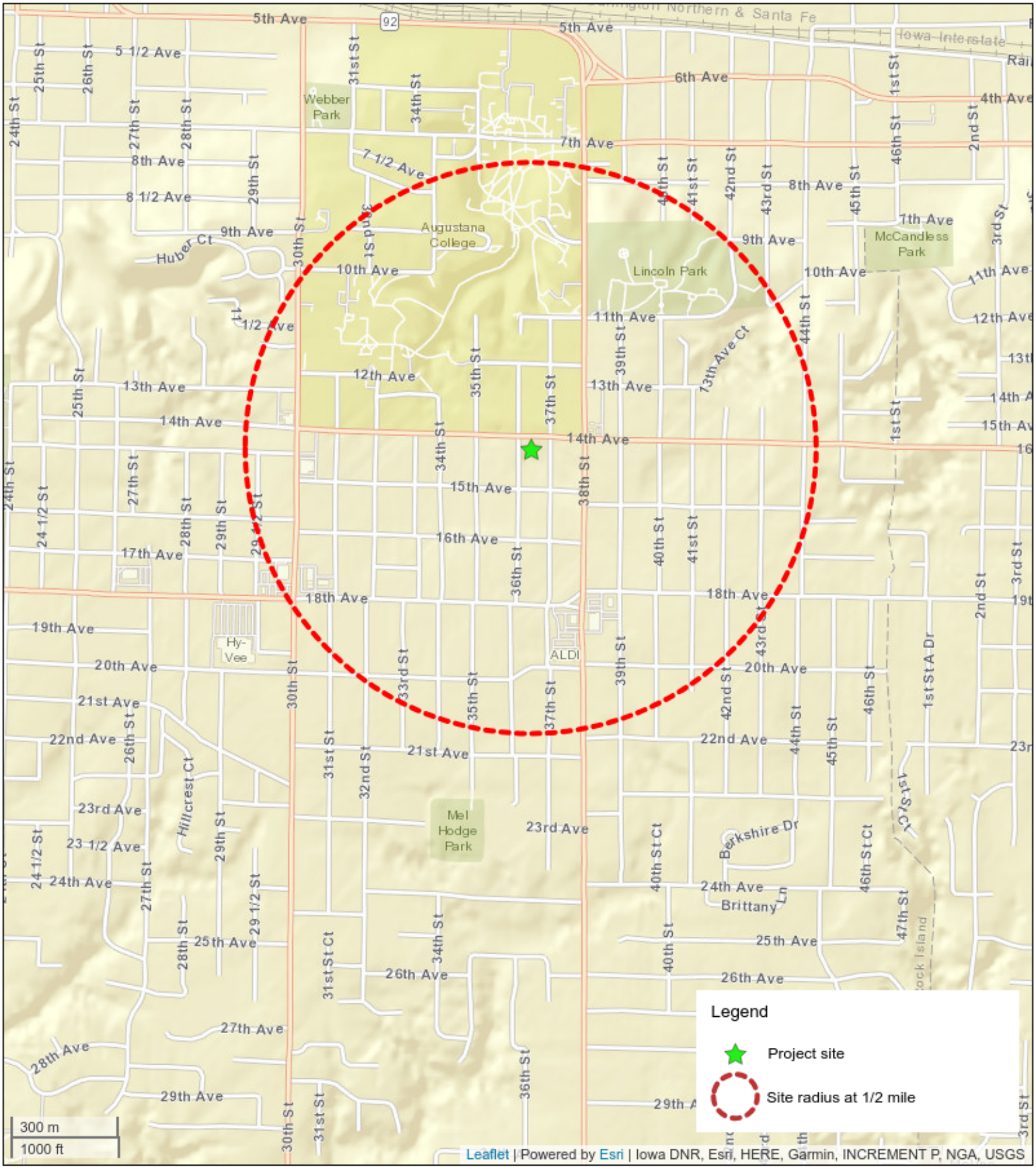


Figure 1: Site Location Map

14th Avenue WT RI
1405 36th St
Rock Island, Illinois 61201

Figure 2: Topographic Map

14th Avenue WT RI
1405 36th St
Rock Island, Illinois 61201

EBI BUILDING VALUE SUSTAINABLY

SITE PHOTO

PROJECT INFORMATION

SITE NAME:	14TH AVENUE WT RI
COUNTY:	ROCK ISLAND
ADDRESS:	1405 36TH ST ROCK ISLAND, IL 61201
JURISDICTION:	CITY OF ROCK ISLAND
SITE #:	SIIL007048
FA #:	10082458
PTN #:	3529A1BOQ7/3529A1AWSJ/3529A1AWSY /3529A1AXYK/3529A1BOSL/3529A1AY34
IWM #:	WSUMW0029723/WSUMW0029771 /WSUMW0029737/WSUMW0029763 /WSUMW0029663/WSUMW0029681
LATITUDE:	N 41° 29' 49.6998" (41.497139°)
LONGITUDE:	W 90° 32' 58.0884" (-90.549469°)
TOWER OWNER:	CITY OF ROCK ISLAND, IL 1528 THIRD AVE ROCK ISLAND, IL 61201
GROUND OWNER:	CITY OF ROCK ISLAND, IL 1528 THIRD AVE ROCK ISLAND, IL 61201
APPLICANT:	AT&T 7900 XERXES AVE S BLOOMINGTON, MN 55431
AT&T PROJECT MANAGER:	PETER MCENERY PM753@ATT.COM
AT&T CONSTRUCTION MANAGER:	MITCHELL LONNEE ML855P@ATT.COM

PROJECT CONSULTANTS

PROJECT MANAGEMENT:	JACOBS TELECOMMUNICATIONS
SITE ACQUISITION:	JACOBS TELECOMMUNICATIONS
ARCHITECT:	BC ARCHITECTS ENGINEERS, PLC
CONSTRUCTION:	JACOBS TELECOMMUNICATIONS

AT&T MOBILITY

PROJECT: 5G NR 1SR CBAND ANTENNA & RRH SWAP

SITE #: SIIL007048

FA #: 10082458

PTN #: 3529A1BOQ7/3529A1AWSJ/3529A1AWSY /3529A1AXYK/3529A1BOSL/3529A1AY34

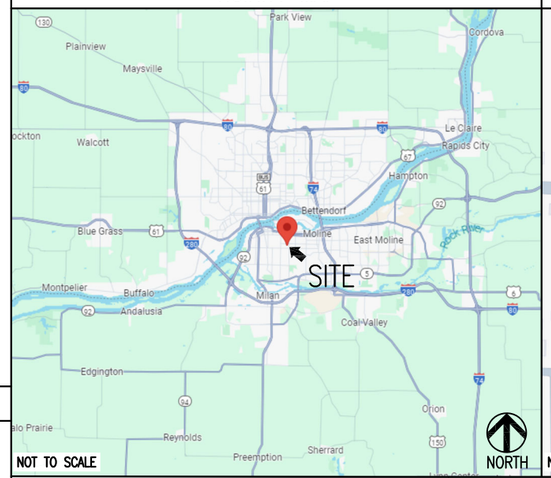
IWM #: WSUMW0029723/WSUMW0029771/WSUMW0029737 /WSUMW0029763/WSUMW0029663/WSUMW0029681

JURISDICTION: CITY OF ROCK ISLAND

SITE NAME: 14TH AVENUE WT RI

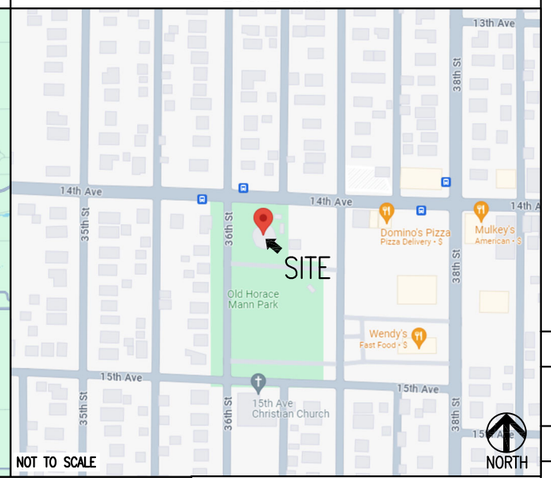
ADDRESS: 1405 36TH ST ROCK ISLAND, IL 61201

VICINITY MAP



NOT TO SCALE

LOCAL MAP



NOT TO SCALE

DRIVING DIRECTIONS

DIRECTIONS FROM: 7900 XERXES AVE S BLOOMINGTON, MN 55431

811 Know what's **below.** **Call** before you dig.

FOR MORE INFORMATION CONTACT THE STATE CORPORATION COMMISSION DIVISION OF UTILITY AND RAILROAD SAFETY

ILLINOIS UTILITY PROTECTION SERVICE, INC.
CALL BEFORE YOU DIG:
800-892-0123

DRAWING INDEX

SCOPE OF WORK

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

AZ:60/180/300
RAD CENTER:155'

TOWER SOW:
INSTALL (3) NNHH-65C-R4 ANTENNAS IN POS 1 ABC
INSTALL (3) AIR6419 B77G ANTENNAS IN POS 2 STACKED TOP ABC
INSTALL (3) AIR6419 B77D ANTENNAS IN POS 2 STACKED BOTTOM ABC
RE-INSTALL (3) EPBQ-654L8H8-L2 ANTENNAS IN POS 3 ABC
INSTALL (3) 4490 B5/B12A RADIOS ON IN POS 1 ABC
INSTALL (3) 4415 B30 RADIOS IN POS 1 ABC
INSTALL (3) 4478 B14 RADIOS IN POS 3 ABC
INSTALL (3) 4890 B25/B66 RADIOS IN POS 3 ABC
INSTALL (3) DC9-48-60-24-8C-EV ON 1 PER SECTOR
REMOVE (6) DC2 FROM THE WATER TANK
REMOVE (2) FC12 FROM SITE
INSTALL (6) 6AWG DC TRUNKS TO PROPSOED DC9S
INSTALL (3) 24 PAIR FIBER TRUNK TO PORPOSED DC9S
REMOVE (9) EXISTING ANTENNAS AND (9) RADIOS FROM SITE

GROUND SOW:
INSTALL ERICSSON BBU EQUIPTMENT IN FLX 42
INSTALL (1) FLEX 42 ON CONCRETE PAD
RELOCATE EXISTING BBU TO PROPOSED FLEX 42 CABINET
INSTALL (1) 58V CONVERTER SHELF WITH (11) -58V CONVERTERS
INSTALL (1) DC12-48-60-0-25E
INSTALL (3) 48V RECTIFIER IN EXISTING POWER PLANT FOR A TOTAL OF 12
INSTALL (1) PS-CONV-48-24 IN THE FLEX 42 FOR THE NID
REMOVE ALL NOKIA EQUIPMENT FROM CABINETS
INSTALL (12) 170AH BATTERIES TO REPLACE EXPIRED 155AH

CODE COMPLIANCE

- ILLINOIS BUILDING CODE 2021, IBC 2021 AMENDED
- ILLINOIS ELECTRICAL CODE 2020, NFPA 70, 2020
- TIA/EIA-222-G STANDARDS

REFERENCE MATERIALS

- THESE DRAWINGS ARE BASED AT&T SCOPING DOCUMENT DATED 03/21/24
- REVISED RFDS PENDING. CONTRACTOR TO USE LATEST VERSION WITH CD'S PER SCOPE OF WORK.

SPECIAL NOTES

- ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT AT&T CONSTRUCTION INSTALLATION GUIDE.
- EXISTING CONDITIONS WILL BE CHANGED & VERIFIED IN FIELD. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, A REPAIR PERMIT WILL BE OBTAINED & CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
- THESE DRAWINGS ARE FULL SIZE & SCALEABLE ON 11"X17" SHEET SIZE.
- 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.

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.

at&t Mobility
7900 XERXES AVE S
BLOOMINGTON, MN 55431

Jacobs
2 ASH STREET, ST #3000
CONSHOHOCKEN, PA 19428

BC architects engineers
5661 COLUMBIA PIKE, SUITE 200
FALLS CHURCH, VA 22041-2868
TEL: (703) 671-6000
FAX: (703) 671-6300

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	04-11-24	ISSUED FOR REVIEW	GWW
0	04-29-24	FINALS	GWW
1	07-03-24	FINALS	JG

NOT FOR CONSTRUCTION UNLESS LABELED AS FOR CONSTRUCTION

LICENSED PROFESSIONAL ENGINEER
CHRISTOPHER D. MORIN
062-064977
7.3.24
OF ILLINOIS

14th AVENUE WT RI
10082458
1405 36TH STREET
ROCK ISLAND, IL 61201

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

GENERAL CONSTRUCTION

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR/CM – JACOBS TELECOMMUNICATIONS
   SUB-CONTRACTOR – PER TRADE
   OWNER – AT&T WIRELESS
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL 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 WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. 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 THE OWNER.
17. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
24. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
25. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
36. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
39. NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.

ANTENNA MOUNTING

40. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
41. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
42. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
43. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
44. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
45. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
46. ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50-OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
47. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN +/- 0.5% AS DEFINED BY THE RFDS. REFER TO ND-00246.
48. JUMPERS FROM THE TMA'S MUST TERMINATE TO OPPOSITE POLARIZATION'S IN EACH SECTOR.
49. CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO AT&T.
50. TMA'S SHALL BE MOUNTED ON PIPE DIRECTLY BEHIND ANTENNAS AS CLOSE TO ANTENNA AS FEASIBLE IN A VERTICAL POSITION.

TORQUE REQUIREMENTS

51. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
52. ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.
    A. RF CONNECTION BOTH SIDES OF THE CONNECTOR.
    B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.

FIBER & POWER CABLE MOUNTING

53. THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES. OPTIC FIBER TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ARTICLE 770 RULES SHALL APPLY.
54. THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN EXCEPTION; WHERE TYPE TC-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY WHICH ARE SERVING UTILIZATION EQUIPMENT OR DEVICES, A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
55. WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

56-61 RESERVED FOR ADDITIONAL NOTES.

COAXIAL CABLE NOTES

62. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
63. CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.
64. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION.
65. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE SHALL BE 1/2" DIA. LDF AND SHALL NOT EXCEED 6'-0".
66. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'-0" OC.
67. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
68. CONTRACTOR SHALL GROUND ALL EQUIPMENT. INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
69. CONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND RET CONTROL CABLES. CABLE STRAIN-RELIEFS AND CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
70. CONTRACTOR TO VERIFY THAT EXISTING COAX HANGERS ARE STACKABLE SNAP IN HANGERS. IF EXISTING HANGERS ARE NOT STACKABLE SNAP IN HANGERS THE CONTRACTOR SHALL REPLACE EXISTING HANGERS WITH NEW SNAP IN HANGERS IF APPLICABLE.

GENERAL CABLE AND EQUIPMENT NOTES

71. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.
72. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATIONS.
73. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
74. ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.
75. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
    A. TEMPERATURE SHALL BE ABOVE 50° F.
    B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
    C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
    D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
76. ALL CABLES SHALL BE GROUNDED WITH COAXIAL CABLE GROUND KITS. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS.
    A. GROUNDING AT THE ANTENNA LEVEL.
    B. GROUNDING AT MID LEVEL, TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED.
    C. GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
    D. GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
    E. GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.
77. ALL PROPOSED GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUND BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.

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BLOOMINGTON, MN 55431

Jacobs
2 ASH STREET, ST #3000
CONSHOHOCKEN, PA 19428

BC architects engineers
5661 COLUMBIA PIKE, SUITE 200
FALLS CHURCH, VA 22041-2868
TEL: (703) 671-6000
FAX: (703) 671-6300

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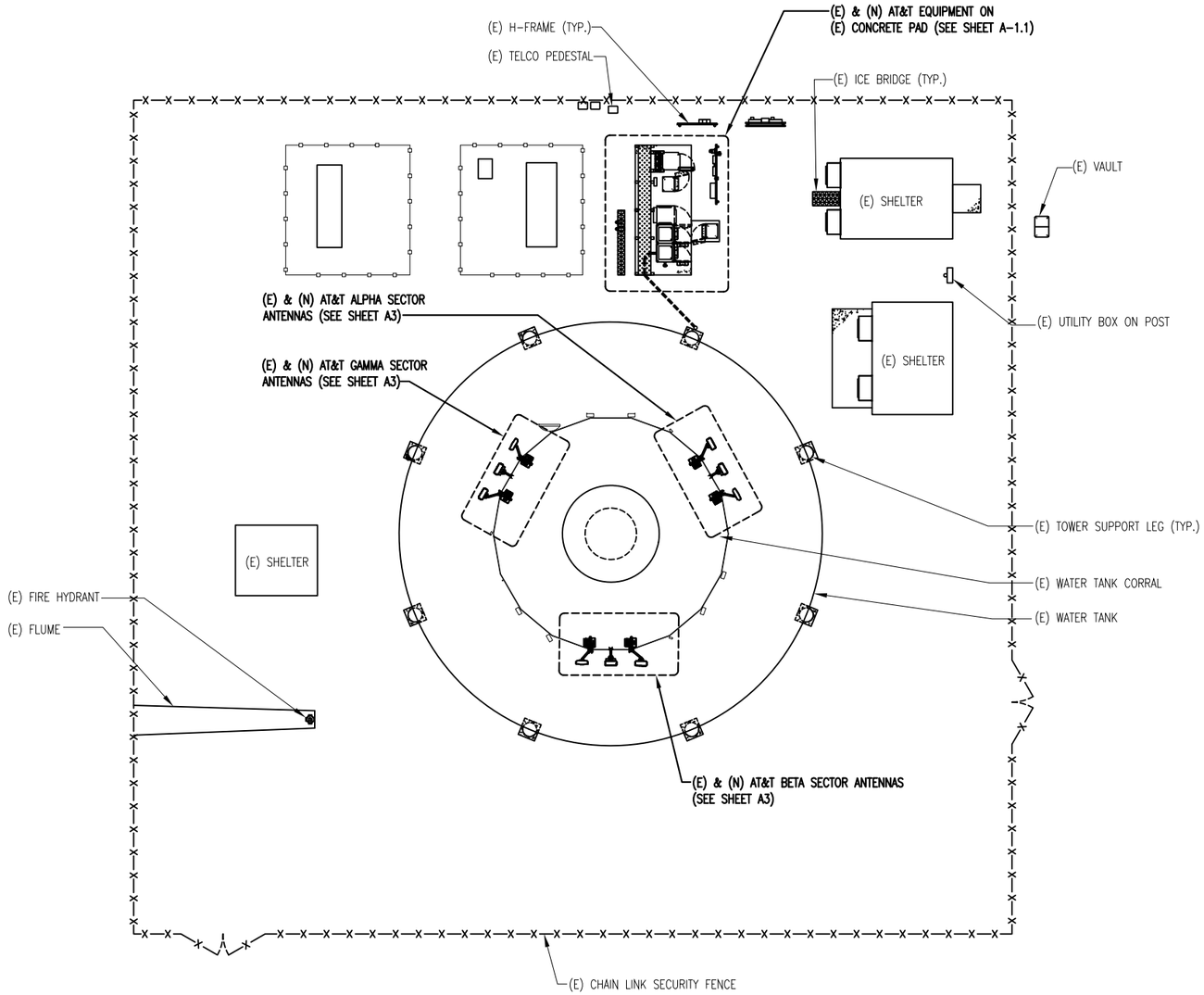
LICENSED PROFESSIONAL ENGINEER
CHRISTOPHER D. MORIN
062-064977
7.3.24
OF ILLINOIS

14th AVENUE WT RI
10082458
1405 36TH STREET
ROCK ISLAND, IL 61201

SHEET TITLE
NOTES AND SPECIFICATIONS

SHEET NUMBER
SP-1



SCALE IN FEET

0 10 20 40 60

TRUE NORTH

COMPOUND PLAN | SCALE:1"=10' (11x17) SCALE:1"=5' (24x36) | 1

SITE PHOTO 1 | 2

SITE PHOTO 2 | 3

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7900 XERXES AVE S
BLOOMINGTON, MN 55431

Jacobs
2 ASH STREET, ST #3000
CONSHOHOCKEN, PA 19428

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SHEET TITLE
COMPOUND PLAN

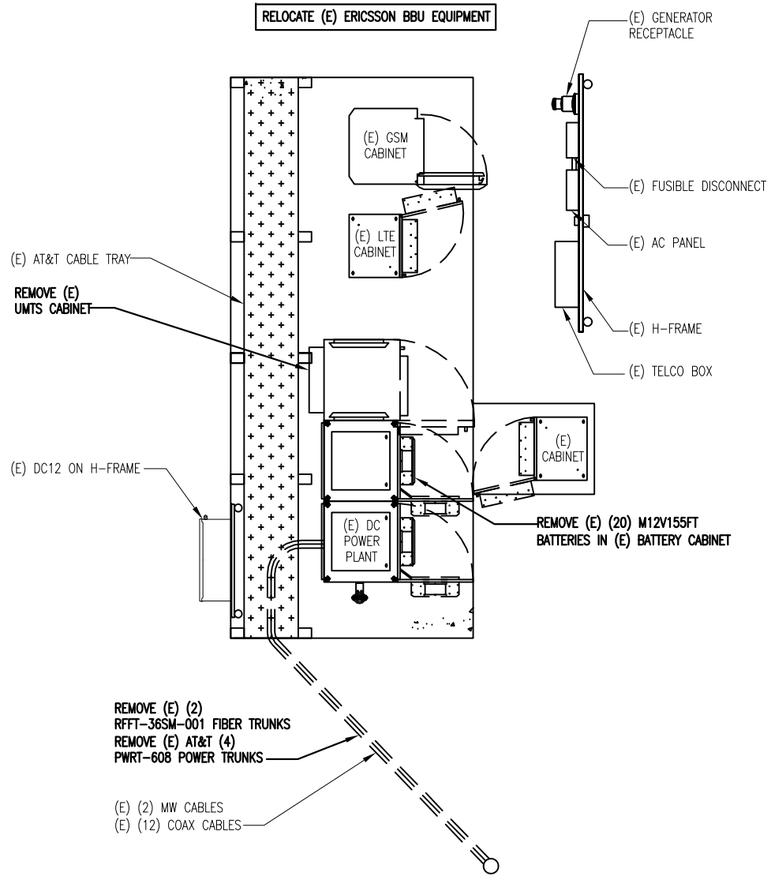
SHEET NUMBER
A-1

BOTTOMSIDE:

SCOPE OF WORK

1. INSTALL ERICSSON BBU EQUIPTMENT IN FLX 42
2. INSTALL (1) FLEX 42 ON CONCRETE PAD
3. RELOCATE EXISTING BBU TO PROPOSED FLEX 42 CABINET
4. INSTALL (1) 58V CONVERTER SHELF WITH (11) -58V CONVERTERS
5. INSTALL (1) DC12-48-60-0-25E
6. INSTALL (3) 48V RECTIFIER IN EXISTING POWER PLANT FOR A TOTAL OF 12
7. INSTALL (1) PS-CONV-48-24 IN THE FLEX 42 FOR THE NID
8. REMOVE ALL NOKIA EQUIPMENT FROM CABINETS
9. INSTALL (12) 170AH BATTERIES TO REPLACE EXPIRED 155AH

RELOCATE (E) ERICSSON BBU EQUIPMENT



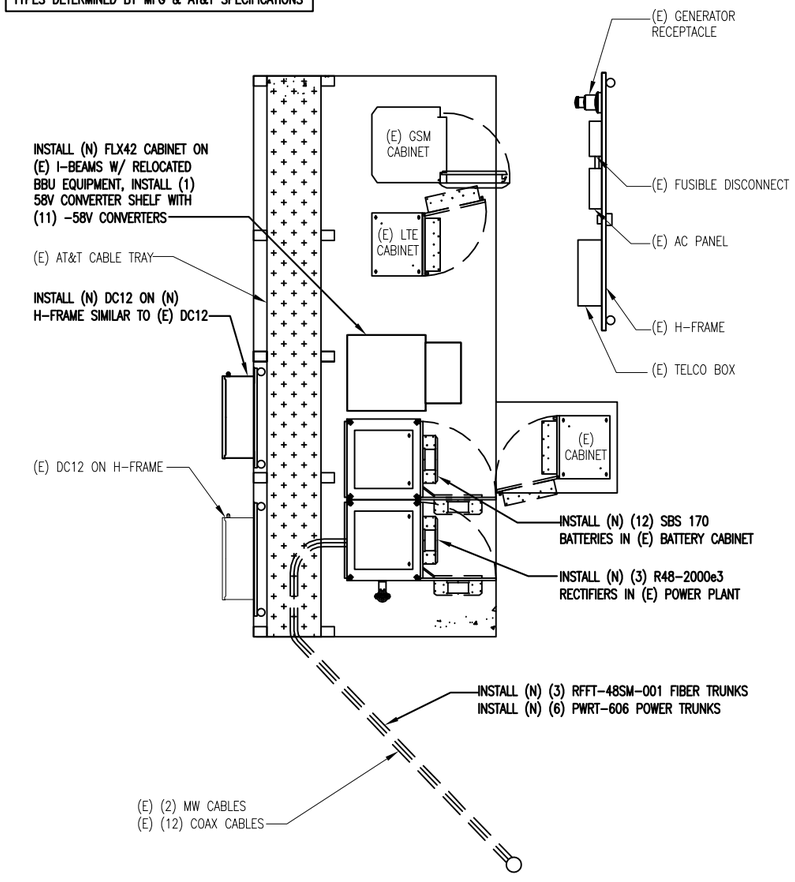
SCALE IN FEET

0 2.5 5 10 15

TRUE NORTH

EXISTING EQUIPMENT PLAN | SCALE:1"=5' (11x17) SCALE:1"=2.5' (24x36) | 1

NOTE:
GROUND ALL (N) EQUIPMENT TO (E) GROUND RING WITH THE APPROPRIATE GROUND WIRE SIZES AND TYPES DETERMINED BY MFG & AT&T SPECIFICATIONS



SCALE IN FEET

0 2.5 5 10 15

TRUE NORTH

PROPOSED EQUIPMENT PLAN | SCALE:1"=5' (11x17) SCALE:1"=2.5' (24x36) | 2

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BLOOMINGTON, MN 55431

Jacobs
2 ASH STREET, ST #3000
CONSHOHOCKEN, PA 19428

BC architects engineers
5661 COLUMBIA PIKE, SUITE 200
FALLS CHURCH, VA 22041-2868
TEL: (703) 671-6000
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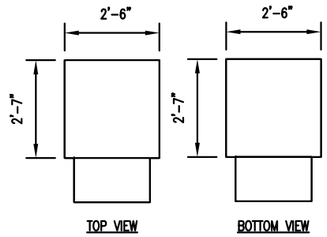
CHRISTOPHER D. MORIN
062-064977
7.3.24
OF ILLINOIS

14th AVENUE WT RI
10082458
1405 36TH STREET
ROCK ISLAND, IL 61201

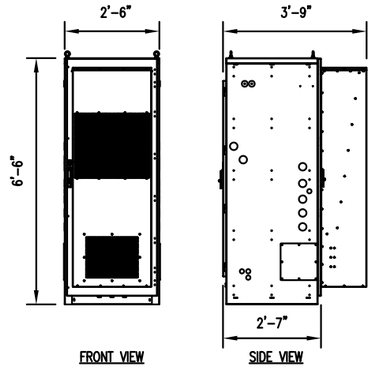
SHEET TITLE
EXISTING & PROPOSED EQUIPMENT PLAN

SHEET NUMBER
A-1.1



TOP VIEW BOTTOM VIEW

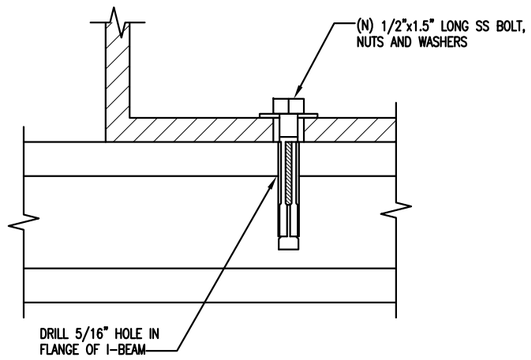
MECHANICAL SPECIFICATIONS	
DIMENSIONS (HXWXD):	78"X30"X31"
WEIGHT:	440 LBS
MOUNTING:	PAD MOUNT WITH PAD GASKET SIDE BY SIDE LINE UP CAPABLE
EXTERIOR CONSTRUCTION/FINISH:	0.100" ALUMINIUM POLYESTER POWDER COATED, GR-487 PROCESS CONTROL, LIGHT GRAY
INTERIOR CONSTRUCTION/FINISH:	0.5" ROOF INSULATION ZINC COATED STEEL RACK RAILS



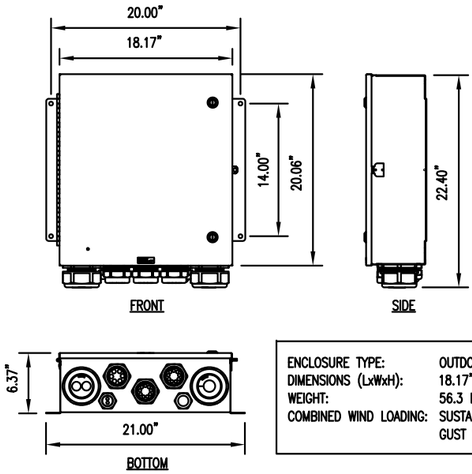
FRONT VIEW SIDE VIEW

ELECTRICAL SPECIFICATIONS	
MODEL NUMBER:	FLX42-3031 GR-487 ENCLOSURE
DC POWER:	(2) 100A DC BREAKER PANELS, 24 TOTAL CIRCUIT POSITIONS (2) 100A DC INPUT TERMINALS (2) DC SURGE PROTECTION DEVICES
GROUNDING:	(1) INTERIOR 12 POSITION MASTER GROUND BAR (1) INTERIOR 12 POSITION EQUIPMENT GROUND BAR
ALARMS:	8 POSITION TERMINAL BLOCK MOUNTED ON RIGHT WALL DOOR INTRUSION, HIGH TEMPERATURE, THERMAL SYSTEM FAILURE ALARMS PRE-TERMINATED
THERMAL SYSTEM:	7,800 HEAT EXCHANGER WITH 1800W HEATERS, FRONT DOOR MOUNT COLD START FUNCTIONALITY FOR LOW TEMPERATURE-SENSITIVE EQUIPMENT, 8 POSITIONS
OPERATING TEMPERATURE (EXTERIOR):	-40 TO 46° (-40 TO 114° F)

FLX42 CABINET DETAIL | N.T.S | 1

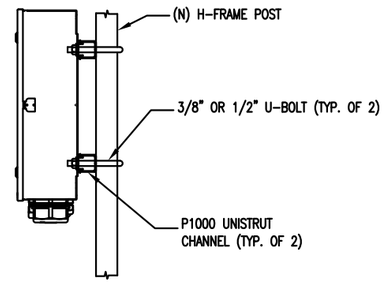


ANCHOR DETAIL | N.T.S | 2



FRONT SIDE BOTTOM

ENCLOSURE TYPE:	OUTDOOR - NEMA 4 RATED
DIMENSIONS (LxWxH):	18.17" x 20.06" x 6.37"
WEIGHT:	56.3 LBS [25.54 KG]
COMBINED WIND LOADING:	SUSTAINED 135.3 LBS [602 N] GUST 228.6 LBS [1016 N]



ATTACHMENT DETAIL

OUTDOOR DC12-48-60-0-25E DETAIL | N.T.S | 3

at&t Mobility
7900 XERXES AVE S
BLOOMINGTON, MN 55431

Jacobs
2 ASH STREET, ST #3000
CONSHOHOCKEN, PA 19428

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5661 COLUMBIA PIKE, SUITE 200
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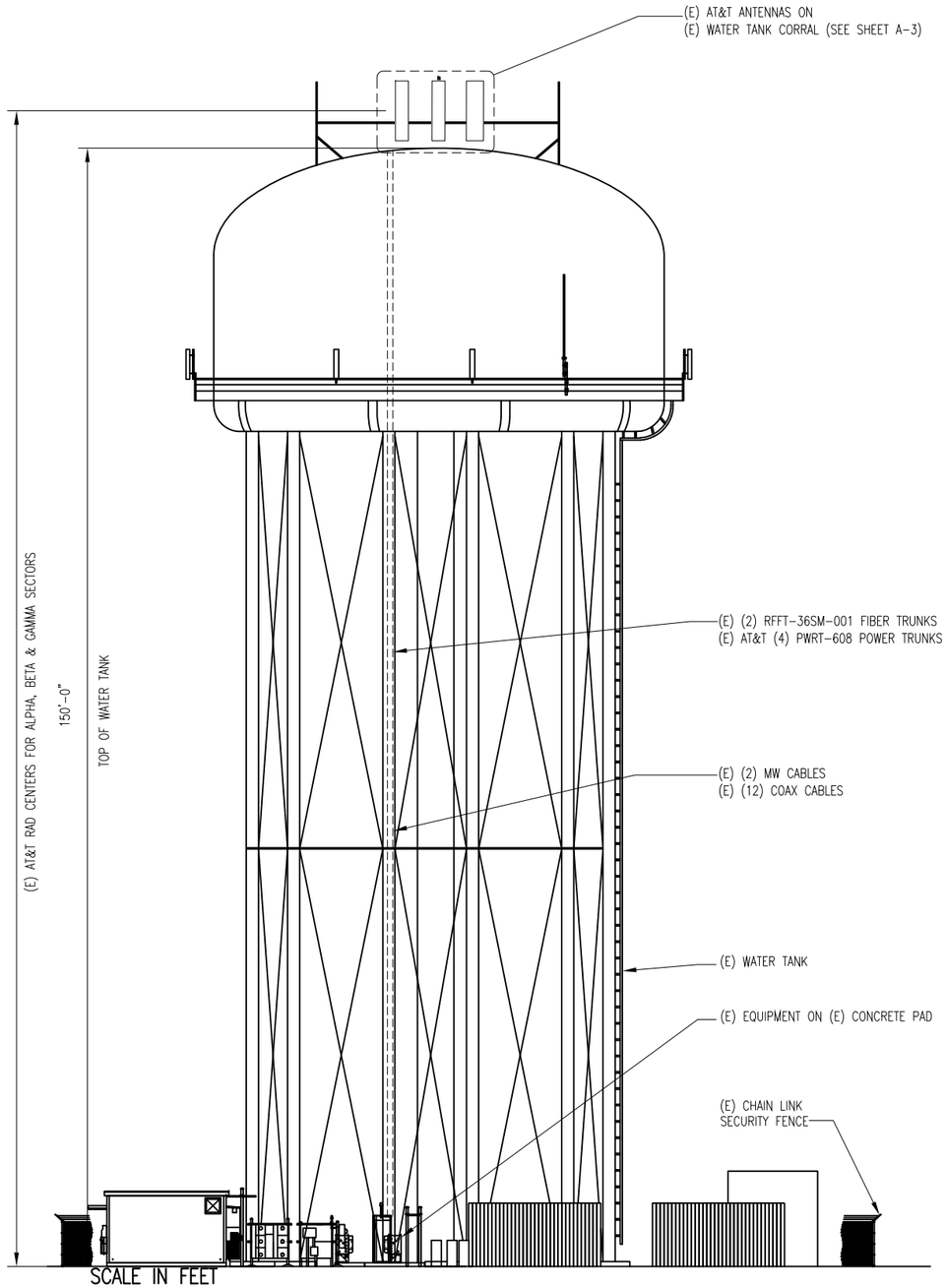
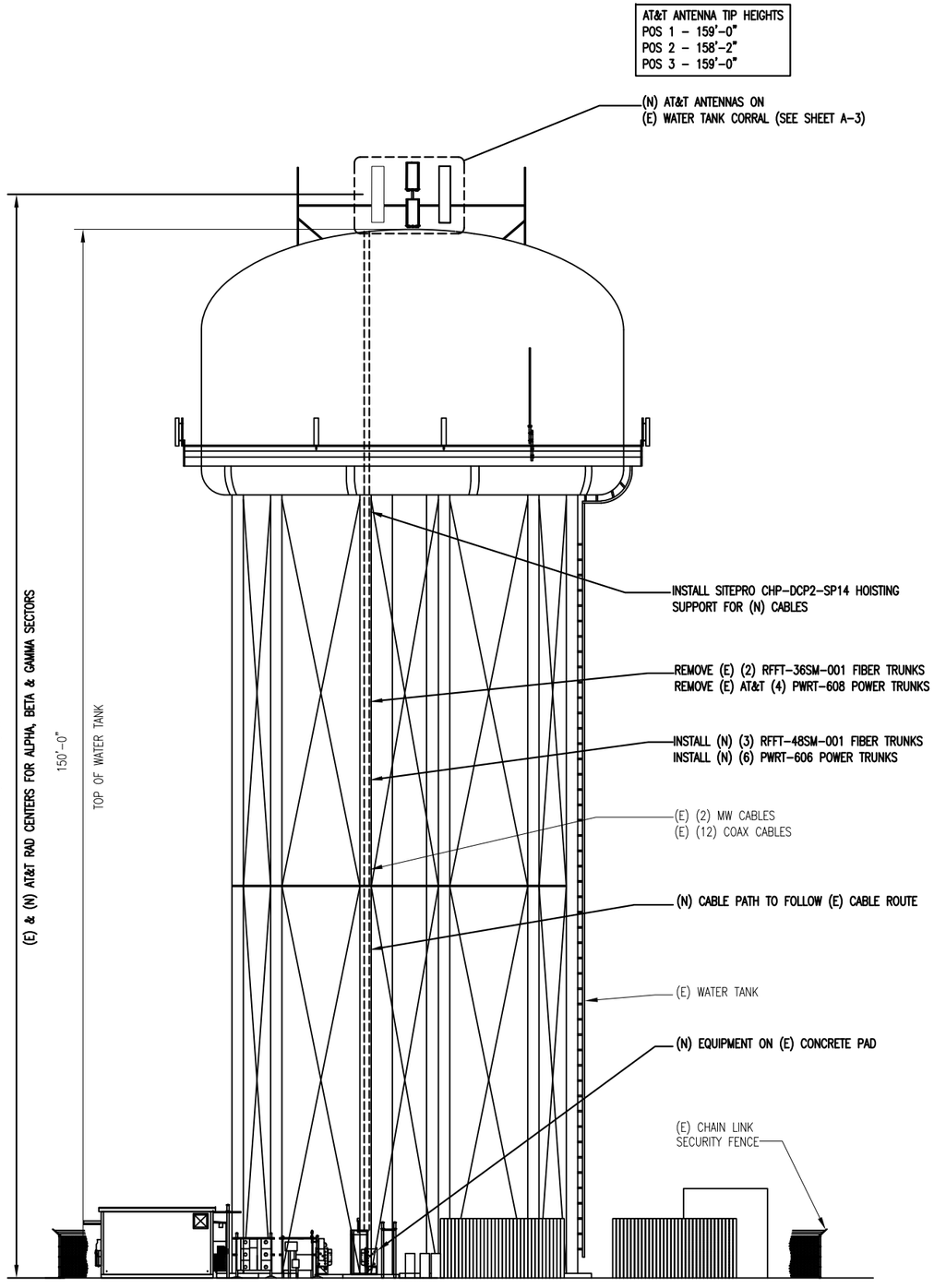
14th AVENUE WT RI
10082458
1405 36TH STREET
ROCK ISLAND, IL 61201

SHEET TITLE
GROUND EQUIPMENT DETAILS

SHEET NUMBER
A-1.2



EXISTING TOWER ELEVATION | SCALE:1"=20' (11x17) SCALE:1"=10' (24x36) | 1



PROPOSED TOWER ELEVATION | SCALE:1"=20' (11x17) SCALE:1"=10' (24x36) | 2

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062-064977
7.3.24
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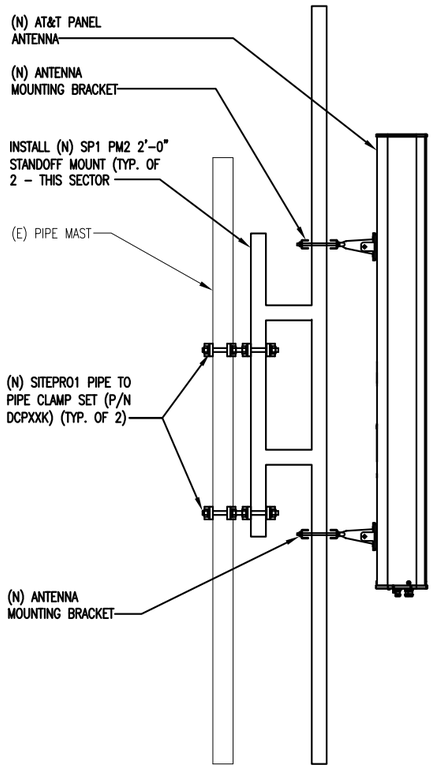
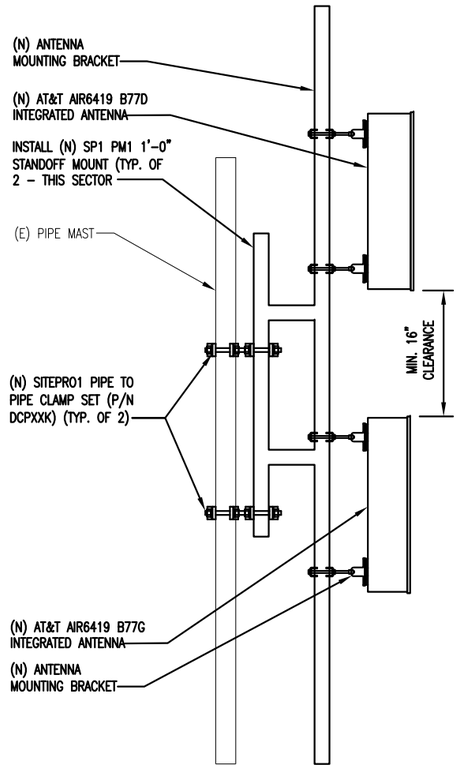
10082458
1405 36TH STREET
ROCK ISLAND, IL 61201

SHEET TITLE
TOWER ELEVATION

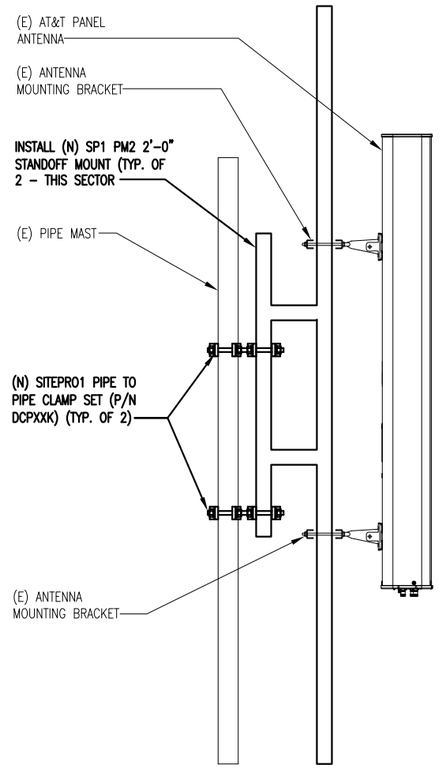
SHEET NUMBER
A-2



POSITION #1 (ALL SECTORS)



POSITION #2 (ALL SECTORS)



POSITION #3 (ALL SECTORS)

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Jacobs
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CONSHOHOCKEN, PA 19428

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OF ILLINOIS

14th AVENUE WT RI
10082458
1405 36TH STREET
ROCK ISLAND, IL 61201

SHEET TITLE
ANTENNA MOUNTING DETAILS

SHEET NUMBER
A-2.1

NOTES:

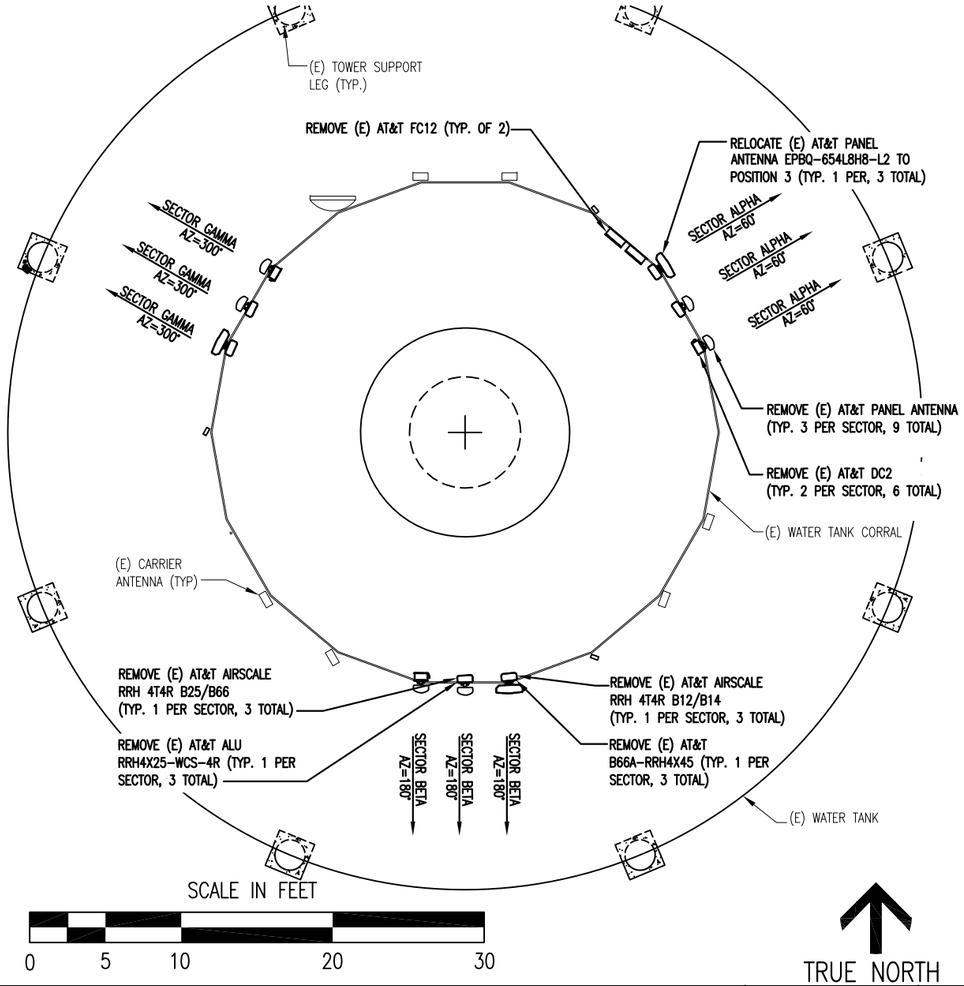
1. GENERAL CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ANTENNA RAD CENTERS, ANTENNA TIP HEIGHTS WITH A PRE-TAPE DROP, AND AZIMUTHS PRIOR TO CONSTRUCTION. ALL CHANGES TO THE ANTENNA POSITIONS, AZIMUTHS, AND RAD CENTERS NEED TO BE DISCUSSED WITH RF AND AT&T FIELD CONSTRUCTION MANAGER. ALL CHANGES SHALL BE NOTED ON CONSTRUCTION AS BUILTS.
2. TOWER AND TOWER FOUNDATION DESIGN HAS BEEN PREPARED AND PROVIDED BY OTHERS. REFER TO MANUFACTURER'S APPROVED TOWER DRAWINGS OR CURRENT STRUCTURAL ANALYSIS. THE RF RAD CENTER OF THE PROPOSED ANTENNAS AND MOUNTING PLATFORM ARE BASED ON INFORMATION PROVIDED THROUGH AT&T.
3. THIS DRAWING IS A GRAPHICAL REPRESENTATION OF THE TOWER, THE RF RAD CENTER OF THE PROPOSED ANTENNAS AND PROPOSED MOUNTING PLATFORM/SECTOR FRAME BASED ON INFORMATION PROVIDED THROUGH AT&T, AND /OR ANALYZED BY OTHERS. BC ARCHITECTS ENGINEERS CERTIFIES ONLY THAT INFORMATION PROVIDED TO BC ARCHITECTS ENGINEERS FOR THE PREPARATION OF THESE PLANS AND IS NOT CERTIFYING NOR WARRANTING THE DESIGN NOR VERIFYING THE ANALYTICAL RESULTS OF THE STRUCTURAL ANALYSIS PERFORMED BY OTHERS
4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE PROPOSED CABLES, CABLE LADDER, AND/OR OTHER CABLE SUPPORTING SYSTEM PER CURRENT STRUCTURAL ANALYSIS.
5. ALL COAX CABLES SHALL BE STACKED IN ACCORDANCE WITH THE CURRENT STRUCTURAL ANALYSIS. THE CONTRACTOR OR SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAYS, ETC., AND/OR CONDUIT AS REQUIRED TO SUPPORT CABLES
6. THE CONTRACTOR SHALL VERIFY WITH CONSTRUCTION TURF VENDORS 48 HOURS PRIOR TO INSTALLATION OF ALL EQUIPMENT/RF CONFIGURATION AND ANY RELATED WORK RELATED TO THE COMPLETION OF THIS PROJECT.
7. THIS DRAWING IS FOR GENERAL INFORMATION ONLY

TOWER SCOPE OF WORK:

TOPSIDE:

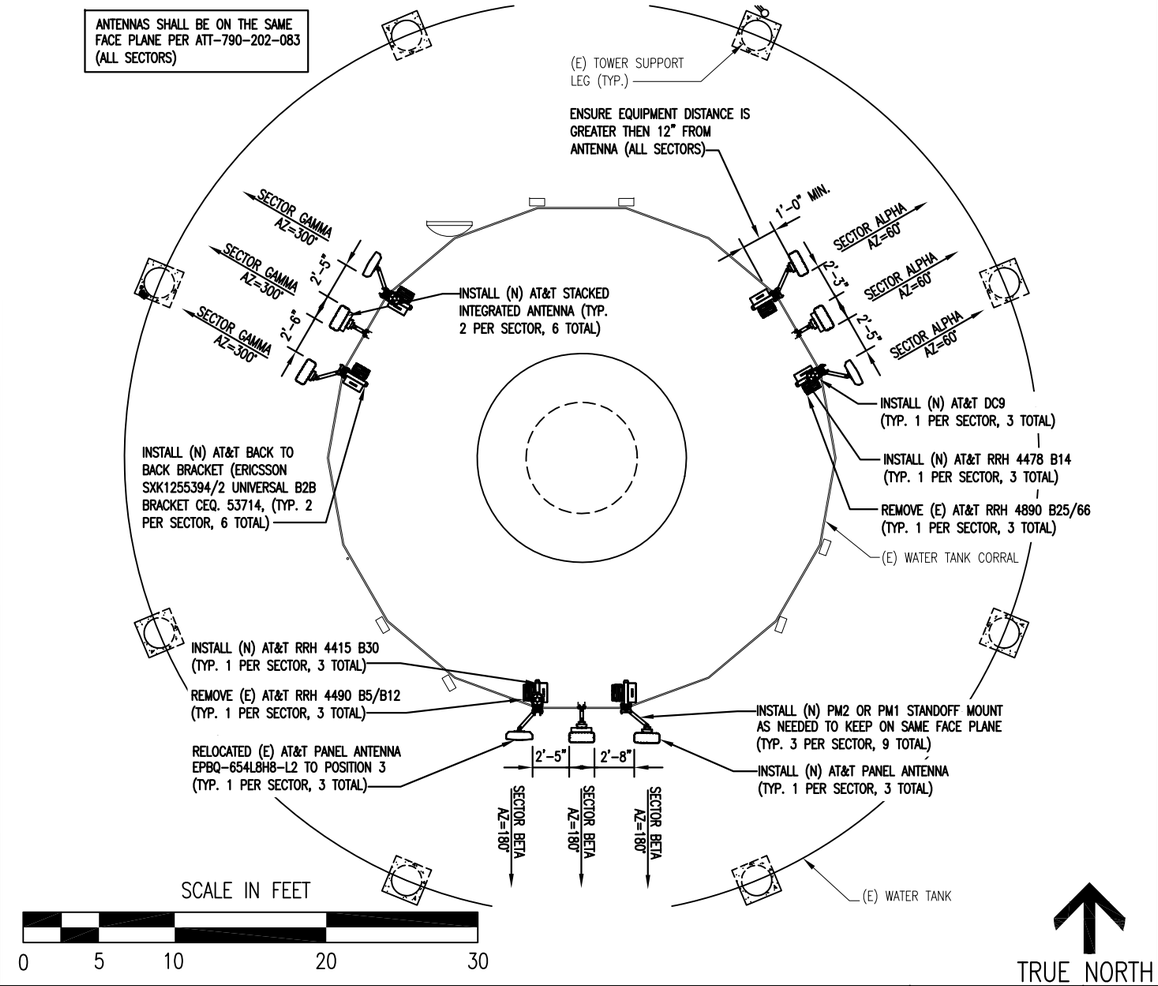
1. INSTALL (3) NNHH-65C-R4 ANTENNAS IN POS 1 ABC
2. INSTALL (3) AIR6419 B77G ANTENNAS IN POS 2 STACKED TOP ABC
3. INSTALL (3) AIR6419 B77D ANTENNAS IN POS 2 STACKED BOTTOM ABC
4. RE-INSTALL (3) EPBQ-654L8H8-L2 ANTENNAS IN POS 3 ABC
5. INSTALL (3) 4490 B5/B12A RADIOS ON IN POS 1 ABC
6. INSTALL (3) 4415 B30 RADIOS IN POS 1 ABC
7. INSTALL (3) 4478 B14 RADIOS IN POS 3 ABC
8. INSTALL (3) 4890 B25/B66 RADIOS IN POS 3 ABC
9. INSTALL (3) DC9-48-60-24-8C-EV ON 1 PER SECTOR
10. REMOVE (6) DC2 FROM THE WATER TANK
11. REMOVE (2) FC12 FROM SITE
12. INSTALL (6) 6AWG DC TRUNKS TO PROPSOED DC9S
13. INSTALL (3) 24 PAIR FIBER TRUNK TO PORPOSED DC9S
14. REMOVE (9) EXISTING ANTENNAS AND (9) RADIOS FROM SITE

NOTE:
GROUND ALL (N) EQUIPMENT TO GROUND BARS WITH THE APPROPRIATE GROUND WIRE SIZES AND TYPES DETERMINED BY MFG & AT&T SPECIFICATIONS



EXISTING ANTENNA PLAN | SCALE: 1"=10' (11x17) SCALE: 1"=5' (24x36) | 1

ANTENNAS SHALL BE ON THE SAME FACE PLANE PER ATT-790-202-083 (ALL SECTORS)



PROPOSED ANTENNA PLAN | SCALE: 1"=10' (11x17) SCALE: 1"=5' (24x36) | 2

at&t Mobility
7900 XERXES AVE S
BLOOMINGTON, MN 55431

Jacobs
2 ASH STREET, ST #3000
CONSHOHOCKEN, PA 19428

BC architects engineers
5661 COLUMBIA PIKE, SUITE 200
FALLS CHURCH, VA 22041-2868
TEL: (703) 671-6000
FAX: (703) 671-6300

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	04-11-24	ISSUED FOR REVIEW	GWW
0	04-29-24	FINALS	GWW
1	07-03-24	FINALS	JG

NOT FOR CONSTRUCTION UNLESS LABELED AS FOR CONSTRUCTION

LICENSED PROFESSIONAL ENGINEER
CHRISTOPHER D. MORIN
062-064977
7.3.24
OF ILLINOIS

14th AVENUE WT RI
10082458
1405 36TH STREET
ROCK ISLAND, IL 61201

SHEET TITLE
EXISTING & PROPOSED ANTENNA PLAN

SHEET NUMBER
A-3

THE DESIGN SHOWN IN THESE DRAWINGS IS BASED ON INFORMATION GATHERED FROM AT&T RFDS ID: RFDS-5897154 DATED 03/07/2024

SECTOR 1

SECTOR	ANTENNA TECHNOLOGY	ANTENNA POSITION	MAKE	MODEL	RAD. CTR FT. AGL.	TOP OF ANTENNAS	AZIMUTH	CABLE TYPE	APPROXIMATE LENGTH	DIPLEXERS	TMA	FILTER	RRH
ALPHA	LTE 700 LTE WCS	#1	COMMSCOPE	NNHH-65C-R4	155'	159'±	60°	(N) FIBER	–	–	–	–	(1) (N) 4415 B30 (1) (N) 4490 B5/B12
	5G CBAND 5G DOD	#2	ERICSSON	AIR6419 B77D + AIR 6419 B77G (STACKED)	153' 157'	158'-2"±	60°	(N) FIBER	–	–	–	–	INTEGRATED
	LTE 700 LTE 1900 LTE AWS	#3	KMW	EPBQ-654L8H8-L2	155'	159'±	60°	(N) FIBER	–	–	–	–	(1) (N) 4478 B14 (1) (N) 4890 B25/B66
	–	#4	–	–	–	–	–	–	–	–	–	–	–

SECTOR 2

SECTOR	ANTENNA TECHNOLOGY	ANTENNA POSITION	MAKE	MODEL	RAD. CTR FT. AGL.	TOP OF ANTENNAS	AZIMUTH	CABLE TYPE	APPROXIMATE LENGTH	DIPLEXERS	TMA	FILTER	RRH
BETA	LTE 700 LTE WCS	#5	COMMSCOPE	NNHH-65C-R4	155'	159'±	180°	(N) FIBER	–	–	–	–	(1) (N) 4415 B30 (1) (N) 4490 B5/B12
	5G CBAND 5G DOD	#6	ERICSSON	AIR6419 B77D + AIR 6419 B77G (STACKED)	153' 157'	158'-2"±	180°	(N) FIBER	–	–	–	–	INTEGRATED
	LTE 700 LTE 1900 LTE AWS	#7	KMW	EPBQ-654L8H8-L2	155'	159'±	180°	(N) FIBER	–	–	–	–	(1) (N) 4478 B14 (1) (N) 4890 B25/B66
	–	#8	–	–	–	–	–	–	–	–	–	–	–

SECTOR 3

SECTOR	ANTENNA TECHNOLOGY	ANTENNA POSITION	MAKE	MODEL	RAD. CTR FT. AGL.	TOP OF ANTENNAS	AZIMUTH	CABLE TYPE	APPROXIMATE LENGTH	DIPLEXERS	TMA	FILTER	RRH
GAMMA	LTE 700 LTE WCS	#9	COMMSCOPE	NNHH-65C-R4	155'	159'±	300°	(N) FIBER	–	–	–	–	(1) (N) 4415 B30 (1) (N) 4490 B5/B12
	5G CBAND 5G DOD	#10	ERICSSON	AIR6419 B77D + AIR 6419 B77G (STACKED)	153' 157'	158'-2"±	300°	(N) FIBER	–	–	–	–	INTEGRATED
	LTE 700 LTE 1900 LTE AWS	#11	KMW	EPBQ-654L8H8-L2	155'	159'±	300°	(N) FIBER	–	–	–	–	(1) (N) 4478 B14 (1) (N) 4890 B25/B66
	–	#12	–	–	–	–	–	–	–	–	–	–	–

at&t Mobility
7900 XERXES AVE S
BLOOMINGTON, MN 55431

Jacobs
2 ASH STREET, ST #3000
CONSHOHOCKEN, PA 19428

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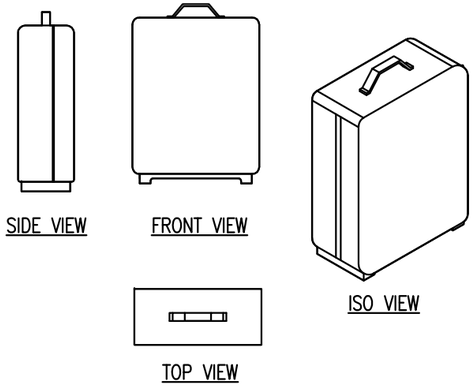
SHEET TITLE
ANTENNA SCHEDULE

SHEET NUMBER
A-4

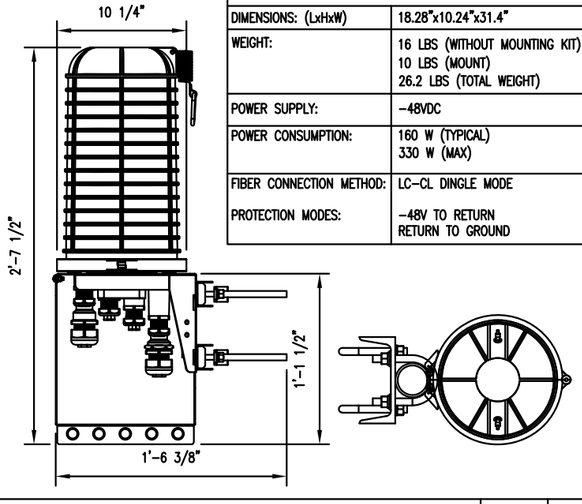


RRUS 4415 B30

TECHNICAL SPECIFICATIONS	
B30 A+ B	TX=2350 – 2360 MHz RX=2305 – 2315 MHz
CPRI 2 PORTS x 2.5/4.9/9.8/10.1 GBPS	
INSTALL (2) SFPx AND CONNECT (2) FIBER PAIR TO THE RRUS 4415 DURING INITIAL INSTALL	
BREAKER SIZE DC POWER CONSUMPTION	25A, 670 W (FOR DIMENSIONING)
200 MM HORIZONTAL SEPARATION REQUIRED	
200 MM SEPARATION REQUIRED FROM ANTENNA BACKPLANE TO RADIO	
400 MM VERTICAL OUTDOOR/INDOOR REQUIRED BETWEEN 2 RADIOS SEPARATION REQUIRED	
500 MM VERTICAL SEPARATION BELOW ANTENNA	
MIN, MAX DC CABLE SIZE FROM SQUID TO RADIO = 10.8 AWG 1. ADAPTER IS REQUIRED FOR 2-WIRE CONNECTION 2. SHIELDED DC CABLE IS REQUIRED	
GROUND CABLE SIZE = 2AWG	
DIMENSIONS INCL. HANDLE, FEET AND SUNSHIELD:	HEIGHT: 16.5" WIDTH: 13.4" DEPTH: 5.9"
WEIGHT, EXCL. MOUNTING HARDWARE:	46 LBS
CONNECTION TYPE:	4x4.3-10 (F)

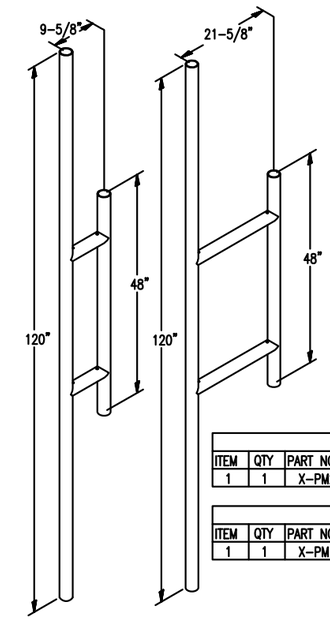
4415 B30 RRH DETAIL | N.T.S | 1

RAYCAP DC9-48-60-24-8C-EV



TECHNICAL SPECIFICATIONS	
DIMENSIONS: (LxHxW)	18.28"x10.24"x31.4"
WEIGHT:	16 LBS (WITHOUT MOUNTING KIT) 10 LBS (MOUNT) 26.2 LBS (TOTAL WEIGHT)
POWER SUPPLY:	-48VDC
POWER CONSUMPTION:	160 W (TYPICAL) 330 W (MAX)
FIBER CONNECTION METHOD:	LC-CL DINGLE MODE
PROTECTION MODES:	-48V TO RETURN RETURN TO GROUND

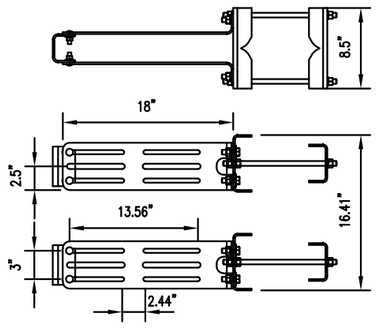
DC9-48-60-24-8C-EV DETAIL | N.T.S | 2



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-PM2	PM2 STANDOFF MOUNT WELDMENT		67.21	67.21

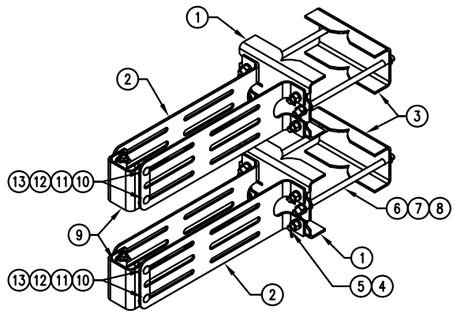
PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-PM1	PM1 STANDOFF MOUNT WELDMENT		59.45	59.45

SITEPRO PM2/1 STANDOFF MOUNT DETAIL (OR APPROVED EQUAL) | N.T.S | 3



RR-FA2 DUAL RRU MOUNT

TECHNICAL SPECIFICATIONS:	
DIMENSIONS:	16.4" (H) X 18" (L)
MOUNTING DIAMETER 2, (MAXIMUM):	6"
MOUNTING DIAMETER 2, (MINIMUM):	1.5"
MOUNTING DIAMETER, (MAXIMUM):	5.6"
MOUNTING DIAMETER, (MINIMUM):	2.4"
WEIGHT:	36 LBS
MATERIAL:	HOT DIP GALVANIZED STEEL
WEIGHT:	36 LBS



COMPONENT PART NUMBERS PROVIDED FOR ASSEMBLY PURPOSES; INDIVIDUAL COMPONENTS MAY BE SHIPPED AS PARTS WITHIN AN INCLUDED KIT.

ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	MTC378912	WELDED FRONT BRACKET	2	4.18 LBS
2	MTC378909	RRU HANGER	4	3.97 LBS
3	MTC378903	REAR BRACKET	2	3.10 LBS
4	GWF-04	1/2" GALV FLAT WASHER	8	0.04 LBS
5	GB-04145	1/2" X 1-1/2" GALV BOLT KIT	8	0.13 LBS
6	GWL-04	1/2" GALV LOCK WASHER	12	0.01 LBS
7	GN-04	1/2" GALV HEX NUT	12	0.04 LBS
8	MT-379	1/2" X 12" GALV THREADED ROD	4	0.66 LBS
9	RRFA-0001-00	BRACKET, RRU MOUNT SMALL STABILIZER	2	1.46 LBS
10	GWF-03	3/8" GALV FLAT WASHER	8	0.01 LBS
11	GWL-03	3/8" GALV LOCK WASHER	8	0.01 LBS
12	GN-03	3/8" GALV HEX NUT	8	0.02 LBS
13	MTC8196	3/8 X 1-1/4" CARRIAGE BOLT	8	0.052 LBS

RR-FA2 DUAL RRU MOUNT (OR APPROVED EQUAL) | N.T.S | 4

at&t Mobility
7900 XERXES AVE S
BLOOMINGTON, MN 55431

Jacobs
2 ASH STREET, ST #3000
CONSHOHOCKEN, PA 19428

BC architects engineers
5661 COLUMBIA PIKE, SUITE 200
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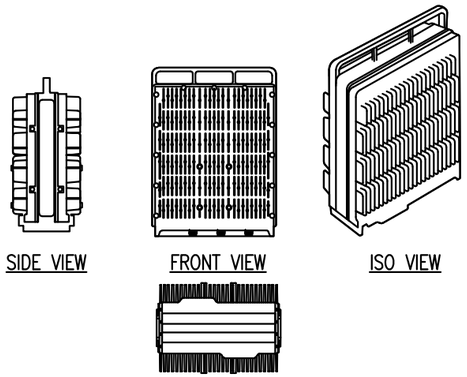
SHEET TITLE
TOWER EQUIPMENT DETAILS

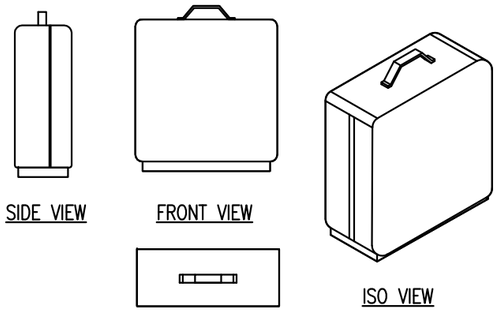
SHEET NUMBER
A-5



4490 B5 & B12 RRH

TECHNICAL SPECIFICATIONS	
BAND:	4TX/4RX PER BAND (B5 & B12)
480W OF TOTAL POWER:	4x60W PER BAND (4T4R IN EACH BAND)
IBW:	FULL IBW IN EACH BAND
CARRIER BW:	MAX 6 CARRIER PER PORT (DL), MAX 3 CARRIERS PER PORT (UL)
OUTPUT POWER:	-48 VDC 3-WIRE (2-WIRE WITH ADAPTER) TWO DC POWER PORTS OF 20A
CONNECTION TYPE:	4x4.3-10 PLUS (F)
FIELD GROUND:	DUAL LUG
WEIGHT:	68 LBS
VOLUME:	29.3 L
DIMENSION: (H"xW"xD)	15.1" x 17.5" x 6.8"

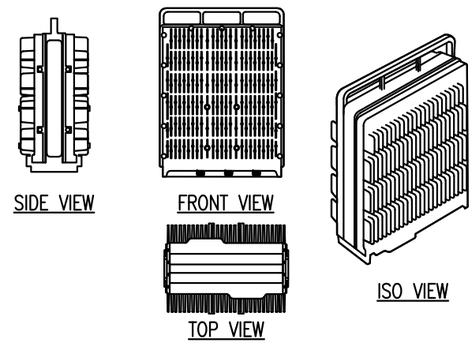
4490 B5/B12A RRH DETAIL | N.T.S | 1



RRUS 4478 B14

TECHNICAL SPECIFICATIONS	
CARRIER CAPACITY LTE:	UP TO 6 CARRIERS IN MIMO
IBW:	FULL BAND IBW
MIMO:	YES, 4T4R
OUTPUT POWER:	UP TO 4 x 40W
CONNECTION TYPE:	4x4.3-10 (F)
OPTICAL INDICATORS:	5
FIELD GROUND:	DUAL LUG
WEIGHT:	27 KG
VOLUME:	27 LITER
MOUNTING:	RAIL, WALL AND POLE MOUNT FANS NEEDED WHEN MOUNTED IN NON-VERTICAL DIRECTION
POWER SUPPLY:	-48 VDC (3-WIRE)
NORMAL OPERATING TEMP:	-40° C TO +55° C (COLD START AT -40°C)
ENVIRONMENT:	OUTDOOR CLASS WITH IP65

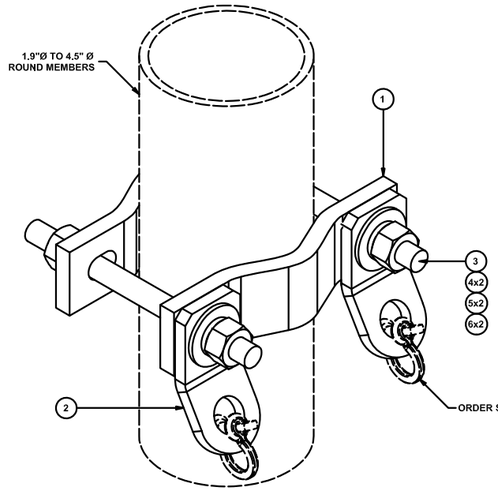
4478 B14 RRH DETAIL | N.T.S | 2



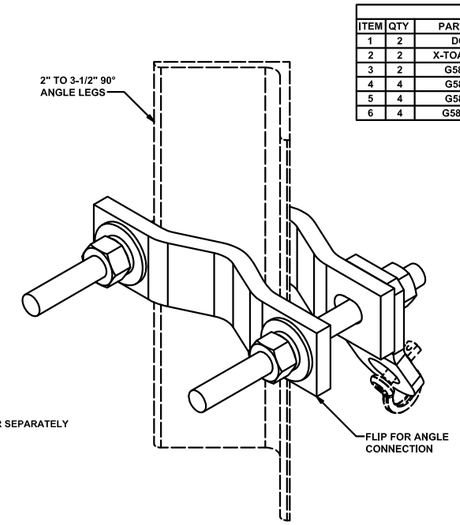
RRUS 4890 B25/B66

TECHNICAL SPECIFICATIONS	
BAND:	8 PORT, 4T8R PER BAND (B25 & B66)
480W OF TOTAL POWER:	4x60W PER BAND (4T4R IN EACH BAND)
IBW:	FULL IBW IN EACH BAND
CARRIER BW:	MAX 6 CARRIER PER PORT (DL), MAX 3 CARRIERS PER PORT (UL)
OUTPUT POWER:	-48 VDC 3-WIRE OR 2-WIRE (SINGLE DC-CONNECTOR)
CONNECTION TYPE:	4x4.3-10 PLUS (F)
FIELD GROUND:	DUAL LUG
WEIGHT:	~68 LBS
VOLUME:	~30 L
DIMENSION: (H"xW"xD)	15.1" x 17.5"

4890 B25/B66 RRH DETAIL | N.T.S | 3



ROUND LEG CONNECTION



ANGLE LEG CONNECTION

PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	4.72
2	2	X-TOAB-BPL	TIE-OFF ANCHOR BRACKET BENT PLATE	2 In	0.83	1.66
3	2	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	1.39
4	4	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.28
5	4	G58LW	5/8" HDG LOCKWASHER		0.03	0.10
6	4	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.52
					TOTAL WT. #	8.69

SITEPRO CHP-DCP2-SP14 HOISTING SUPPORT DETAILS (OR APPROVED EQUAL) | N.T.S | 4

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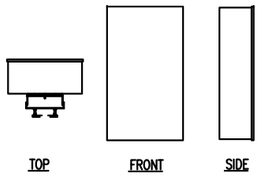


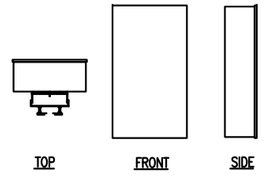
ERICSSON AIR6419 B77D PANEL
ANTENNA MECHANICAL SPECIFICATIONS

DIMENSIONS: 28.2283"Lx16.063"Wx7.24409"D
WEIGHT: 66.1 KGS
ANTENNA: 64T64R
EIRP: 79 DBM

ELECTRICAL SPECIFICATIONS

ANTENNA ELEMENTS	192
TRX BRANCHES	64TR64R
ANTENNA CONFIGURATION	(3X1)X(4X8)
OPERATIVE BAND	3700–3980 MHZ
IBW	200 MHZ
TCBW	200 MHZ
OUTPUT POWER	320W
PEAK EIRP	79DBM
OUTPUT POWER	320W
SIZE (WxLxD)	717X408X184 MM = 54L
WEIGHT	<30KG
TYPE OF COOLING	PASSIVE
eCPRI LINK	3*25G
POWER SUPPLY	–48V VDC 3–WIRES
MULTI–LAYER MU MIMO	16/8 DL/UL LAYER

AIR6419 B77D ANTENNA DETAIL | N.T.S | 1



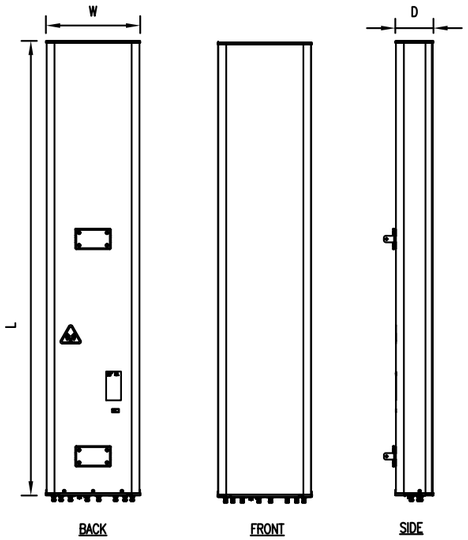
ERICSSON AIR6419 B77G PANEL
ANTENNA MECHANICAL SPECIFICATIONS

DIMENSIONS: 28"Lx15.7"Wx6.7"D
WEIGHT: 66.1 LBS
ANTENNA: 64T64R AAS
EIRP: 79 DBM
WIND LOAD: 440 SQ.IN

ELECTRICAL SPECIFICATIONS

ANTENNA ELEMENTS	192
TRX BRANCHES	64TR64R
ANTENNA CONFIGURATION	(3X1)X(4X8)
OPERATIVE BAND	3450–3550 MHZ
IBW	100 MHZ
TCBW	100 MHZ
OUTPUT POWER	320W
PEAK EIRP	79DBM
PSD	4W/MHZ (TARGET 8W/MHZ FOR ROUND
SIZE (WxLxD)	400X710X170 = –50L
WEIGHT	<30KG
TYPE OF COOLING	PASSIVE
eCPRI LINK	2*25G
POWER SUPPLY	–48V VDC 3–WIRES
MULTI–LAYER MU MIMO	16/8 DL/UL LAYER

AIR6419 B77G ANTENNA DETAIL | N.T.S | 2



COMMSCOPE NNHH–65C–R4 PANEL ANTENNA
MECHANICAL SPECIFICATIONS

WIND LOADING, MAX.: 954 LBF @ 150 KM/H
WIND SPEED, MAX.: 150 MPH.
DIMENSIONS: 96.0"Lx19.6"Wx7.8"D
WEIGHT: 99.2 LBS
CONNECTOR TYPE: 4.3–10 FEMALE

FREQUENCY BAND, MHZ	698–806	806–896	1695–1880	1850–1990	1920–2180	2300–2360
GAIN, DBI	15.7	16.1	18.3	18.8	19.1	19.3
BEAMWIDTH, HORIZONTAL, DEGREES	73°	71°	58°	59°	61°	59°
BEAMWIDTH, VERTICAL, DEGREES	9.8°	8.6°	5.4°	5.0°	4.7°	4.2°
INPUT POWER PER PORT, MAXIMUM, WATTS	300	300	250	250	250	250
POLARIZATION	±45°	±45°	±45°	±45°	±45°	±45°
IMPEDANCE	50	50	50	50	50	50

COMMSCOPE NNHH–65C–R4 ANTENNA DETAIL | N.T.S | 3

at&t Mobility
7900 XERXES AVE S
BLOOMINGTON, MN 55431

Jacobs
2 ASH STREET, ST #3000
CONSHOHOCKEN, PA 19428

BC architects engineers
5661 COLUMBIA PIKE, SUITE 200
FALLS CHURCH, VA 22041–2868
TEL: (703) 671–6000
FAX: (703) 671–6300

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	04–11–24	ISSUED FOR REVIEW	GWW
0	04–29–24	FINALS	GWW
1	07–03–24	FINALS	JG

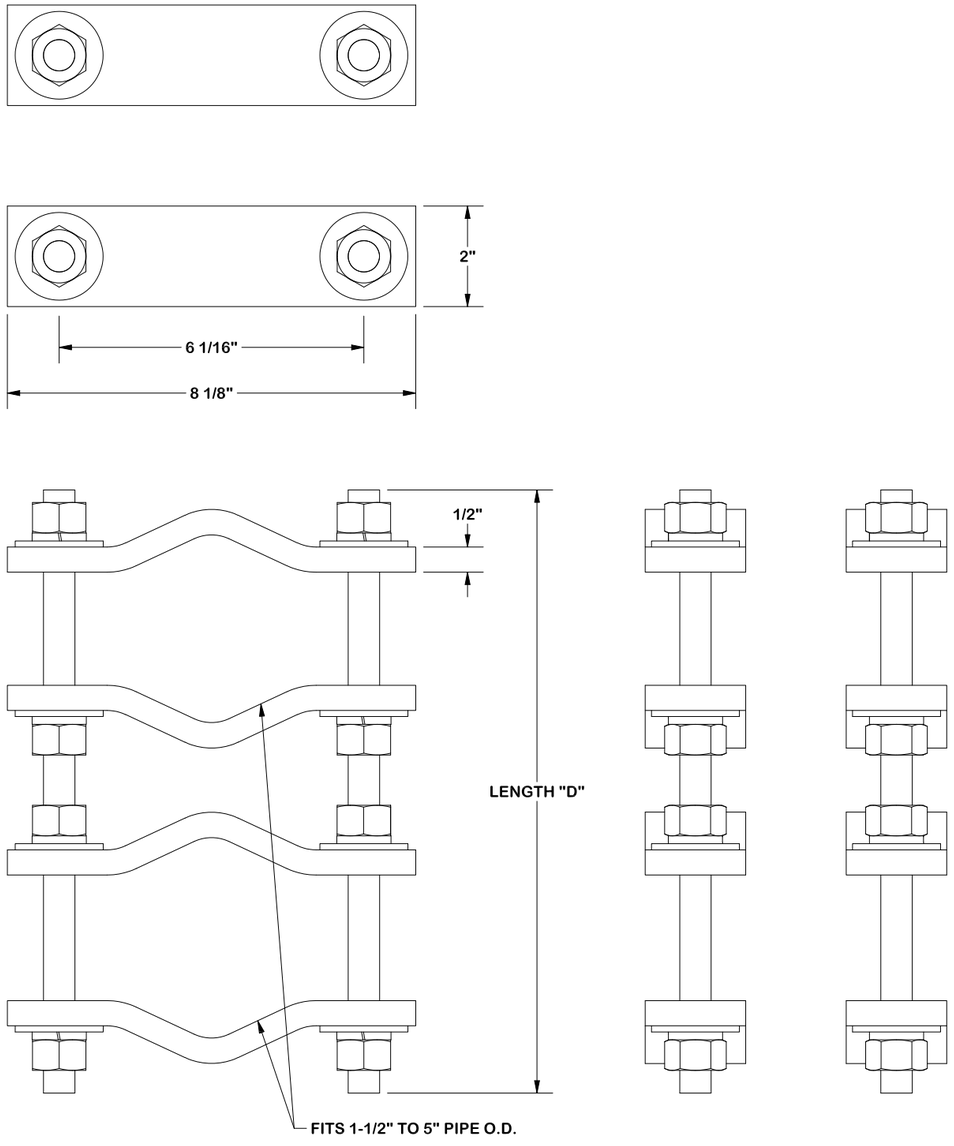
NOT FOR CONSTRUCTION UNLESS LABELED AS FOR CONSTRUCTION

LICENSED PROFESSIONAL ENGINEER
CHRISTOPHER D. MORIN
062-064977
7.3.24
OF ILLINOIS

14th AVENUE WT RI
10082458
1405 36TH STREET
ROCK ISLAND, IL 61201

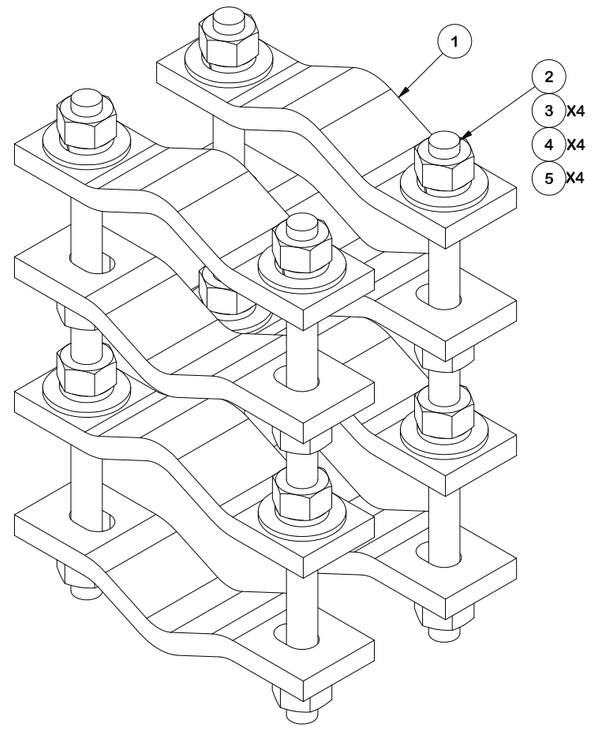
SHEET TITLE
TOWER EQUIPMENT DETAILS

SHEET NUMBER
A–5.2



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	8	DCP	CLAMP HALF, 1/2" THICK, 8-3/8"		2.42	19.36
2	B	C	5/8" THREADED ROD	D	E	F
3	16	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	2.08
4	16	G58LW	5/8" HDG LOCKWASHER		0.03	0.42
5	16	G58FW	5/8" HDG USS FLATWASHER		0.07	1.13

VARIABLE PARTS TABLE						
ASSEMBLY "A"	QTY "B"	PART "C"	LENGTH "D"	UNIT WT. "E"	NET WT. "F"	TOTAL WEIGHT
DCP12K	4	G58R-12	12"	1.05	4.18	27.01
DCP18K	4	G58R-18	18"	1.57	6.27	29.10



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")*
LASER CUT EDGES AND HOLES *(± 0.010")*
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION
PIPE TO PIPE CLAMP SET
1-1/2" TO 5" PIPE
1/2" THICK CLAMP

SITE PRO 1 — A valmont COMPANY
Engineering Support Team: 1-888-753-7446
Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	KC8 8/21/2012		SEE ASSEMBLY "A"	1 OF 1
CLASS 81 / SUB 01	DRAWING USAGE: CUSTOMER	CHECKED BY: CEK 1/22/2013	DWG. NO.: DCPxxK	

SITEPRO PIPE TO PIPE CLAMP #DCPxxK (OR APPROVED EQUAL) | N.T.S | 1

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7900 XERXES AVE S
BLOOMINGTON, MN 55431

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2 ASH STREET, ST #3000
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BC architects engineers
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14th AVENUE WT RI
10082458
1405 36TH STREET
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SHEET TITLE
TOWER EQUIPMENT DETAILS

SHEET NUMBER
A-5.3

GROUNDING NOTES

1. GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTING PROTECTION SHALL BE DONE IN ACCORDANCE WITH METRO MOD CELL SITE GROUNDING STANDARDS.

2. GROUND CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.

3. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.

4. ALL POWER AND GROUND CONNECTIONS TO BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY HARGER (OR APPROVED EQUAL) RATED FOR OPERATION AT NO LESS THAN 75°C OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.

5. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.

6. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.

7. APPLY OXIDE INHIBITING COMPOUND TO ALL MECHANICAL GROUND CONNECTIONS.

8. CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.

9. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMNS MINIMUM RESISTANCE REQUIRED.

10. CONTRACTOR SHALL CONDUCT ANTENNA, CABLE, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.

11. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.

12. 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.

13. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

14. 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.

15. 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 SOLID COPPER FOR OUTDOOR BTS.

16. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

17. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

18. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.

19. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

20. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

21. 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.

22. 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.

at&t Mobility
7900 XERXES AVE S
BLOOMINGTON, MN 55431

Jacobs
2 ASH STREET, ST #3000
CONSHOHOCKEN, PA 19428

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7.3.24
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14th AVENUE WT RI
10082458
1405 36TH STREET
ROCK ISLAND, IL 61201

SHEET TITLE
GROUNDING NOTES

SHEET NUMBER
E-1

Region:	MW
Market:	NDISDINEIMNIIA
FA:	10082458
USID:	37121
Location Name:	14TH AVENUE WT RI
Date Calc Completed:	3/21/2024
Completed By:	RF Services
PACE JOB ID:	MRUMW063414
Job Description:	NOKIA TO ERICSSON EQUIPMENT SWAP
Field Notes:	

-48V PRIMARY VOLTAGE DC PLANT SPECIFIED				
+24VDC EQUIPMENT LOAD:	0 WATTS	=	0 AMPS	at +24V
-48VDC EQUIPMENT LOAD:	3492 WATTS	=	65 AMPS	at -48V
-58VDC EQUIPMENT LOAD:	15462 WATTS	=	267 AMPS	at -58V
NO SECONDARY 24V LOADS - DC CONVERTER SYSTEM NOT REQUIRED				
TOTAL PRIMARY 48V LOAD:	18631 WATTS	=	346 AMPS	at -48V

(DC PLANT CONFIGURATION CAN BE REVIEWED ON DC PLANT WORKSHEET)			
DC PLANT: Emerson STD -48VDC Outdoor NetSure 512 System 525A NEQ.15917			
-48V RECTIFIERS REQUIRED (N+1):	12		
-48V RECTIFIER SLOTS:	16		
CONV. TYPE: Vertiv STD 48V to 58VDC OUTDOOR CONV SYSTEM MAX - GJ Breakers (NEQ.57291)			
58V CONVERTERS REQUIRED:	11		
58V CONVERTERS SLOTS:	23		
ESTIMATED BATTERY RESERVE TIME			
3 170 AH 48V STRINGS =	2.14	HOURS	(ON-SITE GENERATOR - 2 HOUR MINIMUM)

ESTIMATED SITE MAX, AC LOAD (AMPS):	113.25 AMPS
ESTIMATE 200A SERVICE SUFFICIENT	

ESTIMATED CAPACITY REQUIRED:	17	KW
ON SITE AC GENERATOR CAPACITY:	30	KW
ESTIMATE GENSET CAPACITY SUFFICIENT		

RECOMMENDED ENVIRO SYSTEM:	4-TONS COOLING
SPECIFIED ENVIROMENTAL SYSTEM:	0-TONS
ESTIMATE EXISTING HVAC NOT SUFFICIENT	

STEP 1: ENTER QUANTITIES OF EQUIPMENT & DC OPERATING VOLTAGE:

STEP 2: ENTER DC PLANT TYPE FROM DROP-DOWN MENU:

Emerson STD -48VDC Outdoor NetSure 512 System 525A NEQ.15917

-48V PRIMARY DC PLANT SPECIFIED

(DC PLANT CONFIGURATION CAN BE REVIEWED ON DC PLANT WORKSHEET)

STEP 2A: THIS STEP ONLY SHOWN IF "GENERIC" DC PLANT PLANT TYPE HAS BEEN SELECTED:

THIS STEP ONLY SHOWN IF TYCO GPS2424 DC PLANT PLANT TYPE HAS BEEN SELECTED:

STEP 3: DO YOU WANT TO CONFIGURE A STANDARD STAND-ALONE DC CONVERTER SYSTEM? Y

NOTE: IF YOU SELECT "Y" ANY INTEGRATED DC PLANT CONVERTER OPTIONS WILL BE BYPASSED

SELECT A STANDARD STAND-ALONE CONVERTER SYSTEM FROM THE DROP-DOWN LIST:

Vertiv STD 48V to 58VDC OUTDOOR CONV SYSTEM MAX - GJ Breakers (NEQ.57291)

(CONVERTER CONFIGURATION CAN BE REVIEWED ON DC PLANT WORKSHEET)

STEP 4: ENTER INDOOR SITE BUILDING/SHELTER DATA:

(Square footage used for interior AC lighting LOAD calculation)

SELECT SITE ENCLOSURE TYPE & SIZE: Legacy OD CAB

STEP 5: ENTER SITE HVAC SYSTEM DATA:

SPECIFY INDIVIDUAL Cooling UNIT/CNTLR:			
SPECIFY INDIVIDUAL Cooling UNIT/CNTLR:			
SPECIFY INDIVIDUAL Cooling UNIT/CNTLR:			
SPECIFY INDIVIDUAL Cooling UNIT/CNTLR:			
SPECIFY INDIVIDUAL Cooling UNIT/CNTLR:			

PLEASE SELECT A VALID CONFIGURATION

ARE THERE SITE HVAC HEATING UNITS? N

TOTAL SPECIFIED SITE HVAC: 0-TONS

ESTIMATED HVAC REQUIREMENT: 4-TONS COOLING

SPECIFIED HVAC NOT SUFFICIENT

IF NextGen_with_Gen_Control IS SELECTED USER NEEDS TO VERIFY GENERATOR RUN ALARM IS WIRED THROUGH SMART CONTROLLER.
DC LOADS FOR SHELTER ENVIROMENTAL SYSTEMS ARE AUTOMATICLY ADDED TO THE DC PLANT LOAD

STEP 6: ENTER SITE STATIONARY GENERATOR DATA:

DOES SITE HAVE A STATIONARY GENERATOR? Y

ESTIMATED CAPACITY REQUIRED: 17 KW

AC or DC: AC

GENERATOR SIZE (KW): 30

GENSET CAPACITY SUFFICIENT

STEP 7: ENTER SITE BATTERY CONFIGURATION DATA:

SELECT SINGLE STRING BATTERY CAPACITY (AH):	170
SPECIFY TOTAL QUANTITY OF BATTERY STRINGS:	3
TOTAL SITE BATTERY CAPACITY (AH):	510

NOTE: STANDARD BATTERY CAPACITY HAS BEEN SPECIFIED

ESTIMATED BATTERY RESERVE TIME: 2.1 HOURS (SITE GENSET)

- SITES WITH STATIONARY GENSETS
- Equipped with Vertiv DC Plant (NEQ.20068) equipped with 200 amp Battery disconnect breakers shall receive no greater than 2 shelves of 180 AH batteries.
- All other locations with legacy DC plants (typically equipped with battery disconnect breakers <200 amps) shall receive no greater than 3 shelves of 180 AH batteries

- ALL SITES WITHOUT A STATIONARY GENSET
- Shall be engineered with 4 hours of battery reserve.

SITE POWER CALCULATION TOOL - VERSION 5.39 - February 7, 2024

ANY QUESTIONS PLEASE CONTACT RICK BADGERO (RB6620@ATT.COM)

NOTE: LOAD VALUES FOR ANY EQUIPMENT CAN BE USER SPECIFIED ON THE POWER CONSUMPTION WORKSHEET - USER CHANGES TO DEFAULT LOAD VALUES ARE HIGHLIGHTED IN BRIGHT YELLOW

	Ericsson		
	LTE 4G & Multi-Std EQUIPMENT		
0	Ericsson LTE RBS6601 BBU - 1 DUL	48	0
0	Ericsson LTE RBS6601 BBU - 2 DUL	48	0
0	Ericsson WCDMA RBS6601 - 1 DUW	48	0
0	Ericsson LTE RBS6601 BBU - 1DUS	48	0
0	Ericsson LTE RBS6601 BBU - 2DUS	48	0
1	Ericsson XMU	48	40
0	Ericsson LTE RBS5216	48	0
0	P614 PIM Card	48	0
0	6630 BBU Card	48	0
0	6648 BBU Card	48	0
0	6675 BBU Card	48	0
2	6651 BBU Card	48	544
0	6673 Router	48	0
0	6674 BBU Card	48	0
1	6610 Site Controller	48	6
0	(FUTURE)	24	0
0	(FUTURE)	24	0
0	(FUTURE)	24	0
0	(FUTURE)	24	0
	(FUTURE)	24	0
0	(FUTURE)	24	0
0	(FUTURE)	24	0
0	(FUTURE)	24	0
0	(FUTURE)	24	0
0	(FUTURE)	24	0
0	(FUTURE)	24	0
0	(FUTURE)	24	0
0	(FUTURE)	24	0
0	(FUTURE)	24	0
	Radio Heads		
0	RRUS 11	48	0
0	RRUS12 + A2	48	0
0	RRUS 32 B66	48	0
0	RRUS 32 B30	48	0
0	RRUS 32 B2	48	0
0	RRUS 4402 B66/B25	48	0
0	RRU 4415 B25	48	0
3	OUT RRUS 4415 B30	58	1608
0	RRU 4426 B66	48	0
0	RRU 4478 B12	48	0
3	OUT RRU 4478 B14	58	1560
0	RRU 4478 B5	48	0
0	RRUS E2 B29	48	0
0	RRUS 2012 B29	48	0
0	RRUS 4449 B5/B12	48	0
0	RRUS 8843 B2/B66	48	0
0	RRUS 2203 B2, B5	48	0
0	RRUS 2205 B46	48	0
0	AIR 3246 B25, B66	48	0
0	AIR 5331 radio	48	0
0	AIR 1281 radio	48	0
0	AIR 1641 B25/B66	48	0
0	LPRU 4410 B5/B12	48	0
0	LPRU 4420 B25/B66	48	0
0	RRUS 2203 B14	48	0
0	AIR 6488 B48	48	0
3	OUT AIR 6419 B77	58	3000
0	AIR 6449 B77	48	0
0	RRU 8863 B77	48	0
0	RRUS 4460 B2/B66	48	0
0	AIR 6464 B77 D/G (6419 + 6449 in single mount)	48	0
0	Air 5322 Radio	48	0
0	Radio 4435 B77D	48	0
0	RRU 4467 n77 Dual C-band/3.45Ghz	48	0
3	OUT RRU 4490 B5/B12 Dual band	58	2967
0	RRU 4408 3.45 GHz Pico Radio	48	0
3	OUT RRU 4890 B2/B5-B66	58	3327
3	OUT AIR 6419 B77D	58	3000
0	RRU 4494 B14, B29	48	0
0	AIR 6472 B77D, B77M	48	0
0	(FUTURE)		0
0	(FUTURE)		0
0	(FUTURE)		0
0	(FUTURE)		0

	ALU-Nokia		
0	A-LU 9926 LTE BBU (w/max. 3 eCEM-u)	48	0
0	Nokia FSM-4 Chassis (LTE-AMIA, ASIAx3, ABIAx3)	48	0
0	Nokia FSM-4 Chassis (5G- AMIA, ASIKx3, ABILx3)	48	0
0	Nokia FSM-4 Chassis (C-RAN-AMIA, ASILx3, ABIOx3)	48	0
0	(FUTURE)	48	0
0	(FUTURE)	24	0
0	(FUTURE)	48	0
0	(FUTURE)	48	0
0	(FUTURE)		0
0	(FUTURE)		
0	(FUTURE)	48	0
0	(FUTURE)	48	0
0	(FUTURE)	48	0
0	(FUTURE)		0
0	(FUTURE)		0
0	(FUTURE)		0
0	(FUTURE)		0
	Radio Heads		
0	2X40 (L7)	48	0
0	2x40 (B29)	48	0
0	2X60 (U8)	48	0
0	2X60 (U9)	48	0
0	2X60 B66 (L2)	48	0
0	2X60 (L8)	48	0
0	2X60 (L9)	48	0
0	4X25 B30 (L3)	48	0
0	2X60 B4 (L9)	48	0
0	4X30 B25 (L9)	48	0
0	4X45 B66a (L2)	48	0
0	Flexi B14 FRBI	48	0
0	AirScale B5 AHCA	48	0
0	AirScale B30 AHNA	48	0
0	AirScale (Micro) B25 AHFB	48	0
0	AirScale (Micro) B66 AHB	48	0
0	AirScale Dual Band B25/66 AHFIB	48	0
0	AirScale Dual Band B12/14 AHLBA	48	0
0	AirScale Dual Band B5/29 AHBCB	48	0
0	AirScale AAS 39 GHz AEWB	48	0
0	AirScale TribandB12/B14/B29 AHLBBA	48	0
0	AirScale Band 77 AEQK	48	0
0	AirScale Band 77 AZQW	48	0
0	AirScale MAA n77 AEQK	48	0
0	AirScale MAA n77 AEQKI	48	0
0	AirScale MAA n78 AEQU	48	0
0	AirScale n77 AZQW	48	0
0	AirScale (Micro) n77 AWHQN	48	0
0	AirScale DB B25/66 AHFII	48	0
0	AirScale DB MAA n77/3.45 GHz AQQQA	48	0
0	(FUTURE)		0
0	(FUTURE)		0
0	(FUTURE)		0

	TX RF AMP (MCPA or SCPA) EQPT.		
0	Andrew (12 module mcpa FRAME)	24	0
0	Andrew 135 Watt Module	24	0
0	(FUTURE)		0
0	Pow erw ave 12 module mcpa FRAME)	24	0
0	Pow erw ave 90 Watt Module	24	0
0	Pow erw ave 120 Watt Module	24	0
0	Pow erw ave 180 Watt Module	24	0
0	(FUTURE)		0
0	CCI 125 Watt DAB SCPA Module	24	0
0	CCI 125 Watt DAC SCPA Module	24	0
0	(FUTURE)		0

	ANCILLARY CELL SITE EQUIPMENT		
0	A-LU 7705 SIAD	48	0
0	(FUTURE)		0
0	A-LU MPR-9500 MW Service Switch - MSS	48	0
0	A-Lu MPR-9500 MW Outdoor Unit - ODU	48	0
0	A-Lu MPR-9500 MW MPT-HL (Indoor)	48	0
2	D2 HD SIAD S9500	48	532
0	Cisco MWR-2941 SIAD	48	0
0	Cisco SIAD ASR-901	48	0
0	Cisco 15310 EOS (SONET) MUX	48	0
0	Cisco 15454 MSP (MW Ring Config.)	48	0
0	(FUTURE)		0
0	Tru-Position LMU (E911)	48	0
1	GENERIC Ethernet NID	48	60
0	GENERIC Hydrogen Detector	48	0
0	GENERIC RET Controller	48	0
0	GENERIC RXAIT	48	0
0	GENERIC Smoke Detector	48	0
0	GENERIC TMA System	48	0
0	GENERIC Tow er Lighting (DC)	48	0
0	NG480	48	0
0	Cisco 2911	48	0
0	(FUTURE)		0
2	FLX-12 Cabinet	48	640
0	FLX-16 Cabinet	48	0
0	FLX-21 Cabinet	48	0
1	FLX-42 Cabinet	48	1120
0	(FUTURE)		0
1	Commscope 48v/24v DC Conv (PS-CONV-48-24)	48	550
0	(FUTURE)		0
0	(FUTURE)		0

	USER SPECIFIED DC EQUIPMENT		
0		24	0
0		48	0
0		58	0
0		48	0
0		48	0
0		48	0
0		48	0
0		48	0
0		48	0
0		48	0
0		48	0
0		48	0
0		48	0
0		48	0
0		48	0
	TOTAL USER SPECIFIED WATTS:		0
	TOTAL +24V (27V) AMPS:	0	
	TOTAL -48V (54V) AMPS:	0	
	TOTAL -58V (58V) AMPS:	0	

	USER SPECIFIED AC EQUIPMENT		
0			0
0			0
0			0
0			0
0			0
0			0
0			0
	TOTAL USER SPECIFIED KVA:		0
	TOTAL 120VAC AMPS:	0	
	TOTAL 240VAC AMPS:	0	

EXISTING R48-2000E3 RECTIFIERS COUNT: 9
PROPOSED R48-2000E3 RECTIFIERS COUNT: 3
FINAL RECTIFIER COUNT: 12

EXISTING C48/24-1500 CONVERTERS COUNT: 5
PROPOSED C48582000P3 CONVERTERS COUNT: 11
FINAL CONVERTERS COUNT: 16

EXISTING M12V155FT BATTERY STRING COUNT: 20
PROPOSED SBS170 BATTERY STRING COUNT: 12
FINALE ENERSYS SBS170 BATTERY STRING COUNT: 12

at&t Mobility
7900 XERXES AVE S
BLOOMINGTON, MN 55431

Jacobs
2 ASH STREET, ST #3000
CONSHOHOCKEN, PA 19428

BC architects engineers
5661 COLUMBIA PIKE, SUITE 200
FALLS CHURCH, VA 22041-2868
TEL: (703) 671-6000
FAX: (703) 671-6300

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	04-11-24	ISSUED FOR REVIEW	GWW
0	04-29-24	FINALS	GWW
1	07-03-24	FINALS	JG

NOT FOR CONSTRUCTION UNLESS LABELED AS FOR CONSTRUCTION

LICENSED PROFESSIONAL ENGINEER
CHRISTOPHER D. MORIN
062-064977
7.3.24
OF ILLINOIS

14th AVENUE WT RI
10082458
1405 36TH STREET
ROCK ISLAND, IL 61201

SHEET TITLE

POWER CALCULATION SHEET

SHEET NUMBER

E-2

Memorandum

To: Rock Island Preservation Commission

From:

Subject: Discussion on local financial incentives for historic properties.

Date: October 30, 2024

Introduction and Background Information:

There are on-going discussions on how historic preservation efforts, specifically property rehab, can be financially supported at the local level. Staff often receive concerns that the City has an ordinance to preserve historic properties without offering any incentive to do so. The main issue, of course, comes down to funding. There are a variety of different funding sources that could be used, but achieving consensus for dedicating those funds to historic preservation can be difficult. Staff identified some potential sources in the following list.

- **Tax Increment Financing (TIF) Districts**: A TIF district could be established over a historic district. For example, re-establishing the downtown TIF would allow for an additional funding source that property owners could use to undertake historically sensitive rehab. TIF is less likely to be beneficial in a developed residential area where there would be less increment generated. It can also be difficult to justify establishing a new TIF.
- **Special Service Areas (SSA**): An SSA could be established with a boundary overlapping a historic district. The SSA would result in an additional property tax. That money could be used to support historic preservation as well as other placemaking services. An outside organization would need to manage the SSA.
- **General Fund**: Funding could be allocated through the City's general fund for preservation programs. Given budget constraints, this is likely to be challenging with other competing priorities. The main benefit of this source is that the money could be used for historic properties located throughout the City unlike an SSA or a TIF district which are location specific.
- **Philanthropy & Fundraising**: An organization, like the Rock Island Preservation Society, could seek local donations to seed rehab programs. The funding could also be used throughout the City, but is possibly less sustainable than other sources.

Once funding is established, a rehab program can be developed. The two main types of programs are either grants or loans. Staff came across two notable examples from Dubuque, Iowa and Bloomington, Illinois.

- **Eugene D. Funk, Jr. Grant Program, Bloomington, IL:** This program provides funding for up to 50% of eligible project costs with a maximum of $7,500. There are no income eligibility requirements. The program is funded through the City's general fund with around $50-60,000 allocated each year.
- **Historic Preservation Revolving Loan Fund, Dubuque, IA:** This program provides up to a $25,000 loan for eligible projects with a 3% interest rate over 10 years. There are no income eligibility requirements. The initial seed money was provided by a local bank,

which allowed the City to collect the interest to reseed the loan fund.

Lastly, staff have no recommendations at this time, but rather wish to workshop different alternatives with the Preservation Commission. As with anything, there are pros and cons that come with each funding source.

Previous Council Action (if any):
NA

Budget Impact:
NA

Additional Information as applicable (i.e. provide alternative options, community or staff input, staffing impact; resident impact; etc.):
NA

Council Goal (if applicable):
NA

Recommendation:
NA

Submitted by: Tanner Osing, Planning & Zoning Manager

Approved by: