



**Planning & Development Division**  
*Planning & Economic Development Department*

Room 160  
 411 West First Street  
 Duluth, Minnesota 55802



218-730-5580



planning@duluthmn.gov

File Number	PLSUP-2411-0011	Contact	Chris Lee, clee@duluthmn.gov			
Type	Special Use Permit – Wireless Facility	Planning Commission Date		February 11, 2025		
Deadline for Action	Application Date	November 21, 2024	60 Days	January 20, 2025		
	Date Extension Letter Mailed	December 12, 2024	120 Days	March 21, 2025		
Location of Subject		2120 Jean Duluth Road				
Applicant	Fullerton US		Contact	Nora Geci		
Agent			Contact			
Legal Description		PID: 010-2680-00250				
Site Visit Date		December 13, 2024	Sign Notice Date		January 14, 2025	
Neighbor Letter Date		December 5, 2024	Number of Letters Sent		5	

**Proposal**

A Special Use Permit to replace 6 antennae with 6 new antennae and install 6 new antenna units to existing 69-foot-tall pole. Also proposed is new accessory equipment and new concealment canisters.

**Recommended Action:** Approve with conditions.

	<b>Current Zoning</b>	<b>Existing Land Use</b>	<b>Future Land Use Map Designation</b>
<b>Subject</b>	RR-1	Mixed-Use	Rural Residential/Open Space
<b>North</b>	RR-1	Commercial	Open Space
<b>South</b>	RR-1	Residential	Open Space
<b>East</b>	RR-1	Commercial	Open Space
<b>West</b>	RR-1	Medical/Institutional	Rural Residential/Open Space

**Summary of Code Requirements**

UDC Section 50-20.4.E. Major utility or wireless telecommunications facility.

(a) Requiring a special use permit for any new, co-location or modification of a wireless telecommunications facility; (b) Implementing an application process for person(s) seeking a special use permit for wireless telecommunications facilities; (c) Establishing a policy for examining an application for and issuing a special use permit for wireless telecommunications facilities that is both fair and consistent; (d) Promoting and encouraging, wherever possible, the sharing and co-location of wireless telecommunications facilities among service providers; (e) Promoting and encouraging, wherever possible, the placement, height and quantity of wireless telecommunications facilities in such a manner, including but not limited to the use of stealth technology, to minimize adverse aesthetic and visual impacts on the land, property, buildings, and other facilities adjacent to, surrounding and in generally the same area as the requested location of such wireless telecommunications facilities, which shall mean using the least visually and physically intrusive facility that is not technologically or commercially impracticable under the facts and circumstances; (f) That in granting a special use permit,

the city has found that the facility shall be the most appropriate site as regards being the least visually intrusive among those available in the city;

UDC Section 50-37.10. Special Use Permits. The Planning Commission shall approve the application or approve it with modifications if the commission determines that the application meets the following criteria: 1. The application is consistent with the Comprehensive Land Use Plan; 2. The application complies with all applicable provisions of this Chapter, including without limitation any use-specific standards applicable to the proposed use, development or redevelopment, and is consistent with any approved district plan for the area; 3. Without limiting the previous criteria, the commission may deny any application that would result in a random pattern of development with little contiguity to existing or programmed development or would cause anticipated negative fiscal or environmental impacts on the community.

#### **Comprehensive Plan Governing Principles and/or Policies and Current History (if applicable):**

Governing Principle # 1- Reusing of previously developed lands: this proposal is utilizing existing developed lands for a new user.

Future Land Use – Open Space: High natural resource or scenic value, with substantial restrictions and development limitations. Primarily public lands but limited private use is anticipated subject to use and design controls.

History: The property has a single-family home and an existing 69-foot-tall monopole with wireless facilities.

#### **Review and Discussion Items**

Staff finds that:

1. The applicant is proposing to replace 6 antennae with 6 new antennae and install 6 new antenna units to existing 69-foot-tall pole. Proposed plans also include new accessory equipment within the existing equipment shed and new concealment canisters to fit the new antennae. The new concealment canisters will match the existing containers.
2. The applicant has presented plans that meet the use specific standards outlined in 50-20.4.E.
3. The city has the ability to regulate land use; however, the FCC preempts local review on the potential environmental effects of radio frequency (RF) emissions, assuming that the provider is in compliance with the Commission's RF rules. These facilities are categorically excluded and will be in full compliance with the current FCC RF emissions guidelines. Applicant has agreed to perform, and provide written documentation, of a post construction RF emissions compliance.
4. Based on the design and locations of the proposed facilities, staff are not anticipating any new visual impact and are not recommending any additional screening be required.
5. No public, agency, or City comments were received at the time of drafting this report.
6. The permit will lapse if no activity takes place within 1 year of approval.

#### **Staff Recommendation**

Based on the above findings, staff recommends that Planning Commission approve the Special Use Permit with the following conditions:

1. The project be limited, constructed, and maintained consistent with plans submitted and included in this report, titled LAKESIDE ROBERTS RELO.
2. The applicant must follow FCC RF emissions requirements and submit a completed RF Emissions Compliance Report to the Planning Department after construction.
3. Any alterations to the approved plans that do not alter major elements of the plan may be approved by the Land Use Supervisor without further Planning Commission approval; however, no such administrative approval shall constitute a variance from the provisions of Chapter 50.



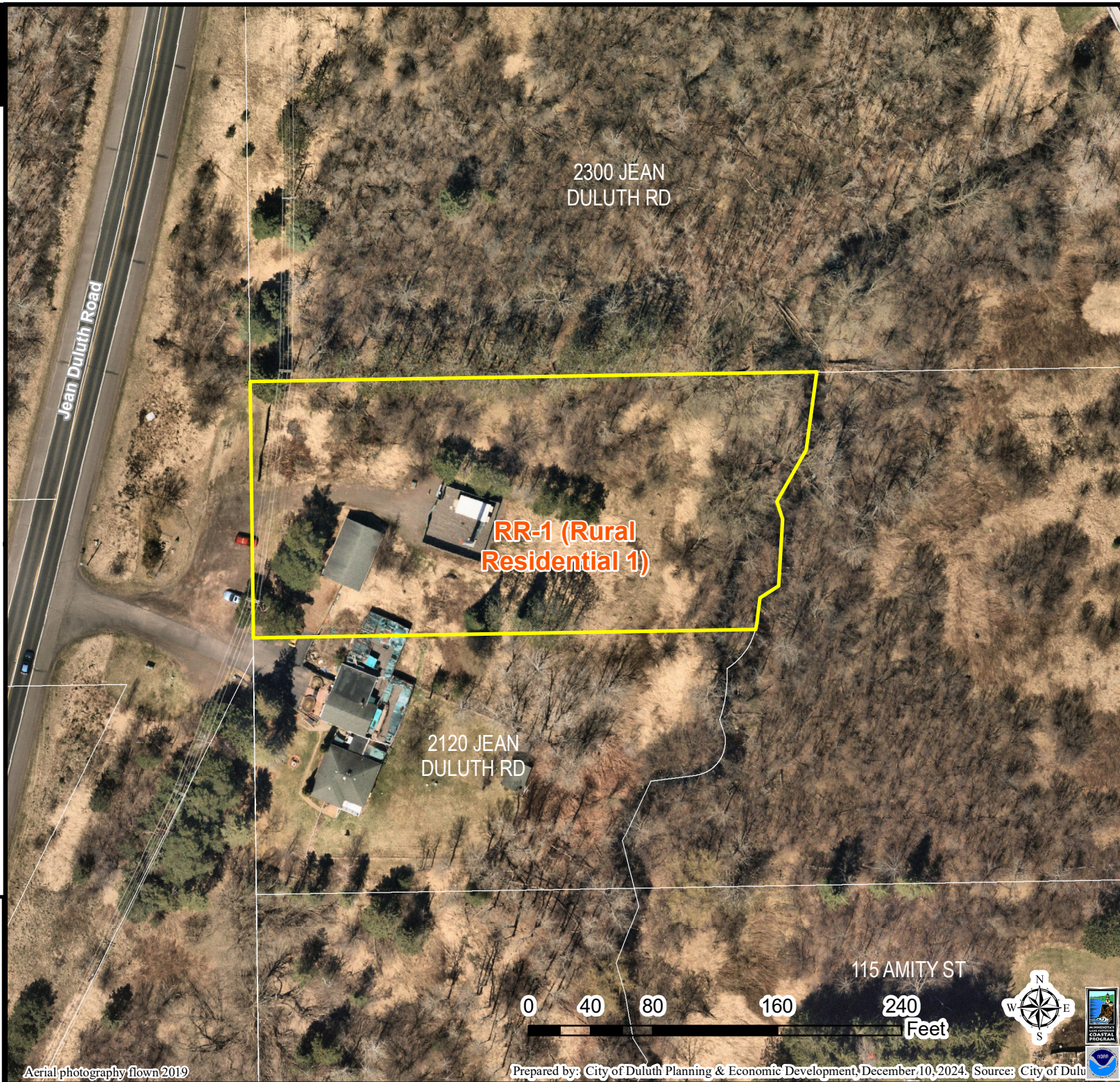


PLSUP-2411-0011  
Special Use - Wireless Facility  
2120 Jean Duluth Rd

The City of Duluth has tried to ensure that the information contained in this map or electronic document is accurate. The City of Duluth makes no warranty or guarantee concerning the accuracy or reliability. This drawing/data is neither a legally recorded map nor a survey and is not intended to be used as one. The drawing/data is a compilation of records, information and data located in various City, County and State offices and other sources affecting the area shown and is to be used for reference purposes only. The City of Duluth shall not be liable for errors contained within this data provided or for any damages in connection with the use of this information contained within.

Aerial photography flown 2019

Prepared by: City of Duluth Planning & Economic Development, December 10, 2024, Source: City of Duluth





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SITE PHOTO

PROJECT INFORMATION

SITE NAME:

LAKE SIDE ROBERTS RELO

COUNTY:

ST. LOUIS COUNTY

ADDRESS:

2120 JEAN DULUTH ROAD  
DULUTH, MN 55804-2648

JURISDICTION:

CITY OF DULUTH, MN

SITE NUMBER:

MN5419

FA NUMBER:

10146456

PTN:

3514A1A7YV, 3514A1A80X,  
3514A1A80Y, 3514A1A7YQ,  
3514A1A7YY, 3514A1A7YZ,  
3514A1A80V, 3514A1A80S

IWM #:

WSUMW0029067, WSUMW0028461,  
WSUMW0028456, WSUMW0029334,  
WSUMW0029000, WSUMW0028991,  
WSUMW0028640, WSUMW0028749

ATC ASSET #:

278173

LATITUDE:

46°50'51.8" N (46.84772778°)

LONGITUDE:

92°02'50.5" W (-92.04735°)

TOWER OWNER:

AMERICAN TOWER COMPANY  
10 PRESIDENTIAL WAY  
WOBURN, MA 01801

GROUND OWNER:

LD ACQUISITION COMPANY 13 LLC  
2120 JEAN DULUTH ROAD  
DULUTH, MN 55804-2648

LANDLORD CONTACT:

—

APPLICANT:

AT&T WIRELESS

AT&T PROJECT MANAGER:

SHAMMIKKA CHISOLM  
sc872r@att.com

AT&T CONSTRUCTION MANAGER:

PETER MCENERY  
pm753t@att.com

PROJECT CONSULTANTS

ENGINEER:

FULLERTON ENGINEERING  
CONSULTANTS, LLC

ADDRESS:

1100 E. WOODFIELD ROAD, SUITE 500  
SCHAUMBURG, ILLINOIS 60173

CONTACT:

LISA LAVICKA

PHONE:

(847) 908-8400

EMAIL:

llavicka@fullerton-us.com

AT&T

MOBILITY

E/// MODERNIZATION

MN5419

10146456

3514A1A7YV, 3514A1A80X,  
3514A1A80Y, 3514A1A7YQ,  
3514A1A7YY, 3514A1A7YZ,  
3514A1A80V, 3514A1A80S

WSUMW0029067, WSUMW0028461,  
WSUMW0028456, WSUMW0029334,  
WSUMW0029000, WSUMW0028991,  
WSUMW0028640, WSUMW0028749

278173

CITY OF DULUTH, MN

LAKE SIDE ROBERTS RELO

2120 JEAN DULUTH ROAD

DULUTH, MN 55804-2648

PROJECT :

SITE # :

FA # :

PTN # :

IWM # :

ATC ASSET#:

JURISDICTION :

SITE NAME :

ADDRESS :

VICINITY MAP

LOCAL MAP

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T ADDRESS; 7900 XERXES AVE S #301, BLOOMINGTON, MN 55431:  
GET ON I-35W S FROM AMERICAN BLVD W, PENN AVE S AND W 82ND ST.  
GET ON I-35W N IN RICHFIELD FROM W 78TH ST AND W 76TH ST.  
TAKE I-35 N TO S 21ST AVE E IN DULUTH. TAKE EXIT 258 FROM I-35 N.  
TAKE WOODLAND AVE AND SNIVELY RD TO JEAN DULUTH RD.

811

Know what's below.  
Call before you dig.

TO OBTAIN LOCATION OF PARTICIPANTS  
UNDERGROUND FACILITIES BEFORE YOU  
DIG IN MINNESOTA, CALL GOPHER STATE  
ONE CALL  
TOLL FREE: 1-800-252-1166 OR  
FAX A LOCATE: 1-800-236-4967  
www.gopherstateonecall.org  
MINNESOTA STATUTE  
REQUIRES MIN OF 48 HOURS  
NOTICE BEFORE YOU  
EXCAVATE

DRAWING INDEX

T1	TITLE SHEET
SP1	NOTES & SPECIFICATIONS
A1	COMPOUND PLAN
A2	EQUIPMENT PLAN
A3	TOWER ELEVATION
A4	ANTENNA PLAN
A5	ANTENNA & CABLE CONFIGURATION
A6/A7	EQUIPMENT DETAILS
A8	CABLE NOTES & COLOR CODING
E1	GROUNDING DETAILS
ATTACHED	CANISTER POLE MODIFICATION DRAWINGS
ATTACHED	DE111

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:

**TOWER WORK:**

- REPLACE 20.0 FT OF VENTED CONCEALMENT CANISTER (34.00"ø X 0.25" FIBERGLASS SECTION) FROM ELEV. 49.0'± TO 69.0'±
- REPLACE 10.0 FT OF VENTED CONCEALMENT CANISTER (34.00"ø X 0.25" FIBERGLASS SECTION) FROM ELEV. 39.0'± TO 49.0'±
- REMOVE (6) EXISTING BA-A5A5407X65V-01 ANTENNAS (2) PER SECTOR IN POSITION 1 & 2. ELEV. 65' & 55' (TYP. OF 3 SECTORS)
- REMOVE (6) EXISTING TMABPD7823VG12A TMA UNITS (2) PER SECTOR (TYP. OF 3 SECTORS)
- INSTALL (3) PROPOSED STACKED AIR6419 B77D AND AIR6419 B77G ANTENNAS (1) PER SECTOR IN POSITION 2. (TYP. OF 3 SECTORS)
- INSTALL (6) PROPOSED ERICSSON 840-370966K ANTENNAS (2) PER SECTOR IN POSITION 1 & 3 (TYP. OF 3 SECTORS)
- INSTALL (3) PROPOSED UNIVERSAL TRI-SECTOR MOUNT KITS AT ELEV. 43'/47', 55' AND 65'
- INSTALL (2) PROPOSED DC3-48-60-8-1086F RAYCAP UNITS, ELEV. 45'
- INSTALL (24) PROPOSED 7/8" COAX CABLES
- INSTALL (2) PROPOSED 0.40" (6 PAIR) FIBER TRUNKS
- INSTALL (2) PROPOSED 0.96" 6 AWG 6 DC TRUNKS

**GROUND WORK:**

**POWER PLANT:**

- RETAIN (1) VERTIV 7100 POWER PLANT
- RETAIN (12) -48V RECTIFIERS
- RETAIN (12) 180AH BATTERIES IN BASE OF POWER PLANT
- RETAIN (4) 180AH BATTERIES IN STANDALONE BATTERY RACK
- INSTALL (8) 180AH BATTERIES IN STANDALONE BATTERY RACK
- INSTALL (1) 23" FIF NEXT TO EXISTING BATTERY RACK
- INSTALL (1) RETROFIT KIT 58V CONVERTER
- INSTALL (10) -58V CONVERTERS

**CIVIL:**

- REMOVE (12) SHELTER MOUNTED RRH UNITS
- REMOVE (1) 7705 ROUTER FROM EXISTING FIF
- RETAIN (1) DC12-48-60-RM (GEN1) RAYCAP UNIT
- INSTALL (3) NEW ERICSSON 4415 B30 RRH UNITS ON PROPOSED EXTERIOR H-FRAME UNDER ICE BRIDGE
- INSTALL (3) NEW ERICSSON 4490 B5/B12A RRH UNITS ON PROPOSED EXTERIOR H-FRAME UNDER ICE BRIDGE
- INSTALL (3) NEW ERICSSON 4478 B14 RRH UNITS ON PROPOSED EXTERIOR H-FRAME UNDER ICE BRIDGE
- INSTALL (3) NEW ERICSSON 4890 B25/B66 RRH UNITS ON PROPOSED EXTERIOR H-FRAME UNDER ICE BRIDGE
- INSTALL (1) NEW DC12-48-60-RM RAYCAP UNIT IN NEW FIF
- INSTALL (2) NEW DC9-48-60-24-PC16-EV ON EXTERIOR H-FRAME UNDER THE ICE BRIDGE
- INSTALL (1) NEW 0.40" 24 PAIR FIBER TRUNK TO GROUND DC9
- INSTALL (4) NEW 0.96" 6 AWG 6 DC TRUNKS FROM DC12 TO GROUND DC9
- INSTALL (6) NEW CBC1726-DP-2X DIPLEXERS
- INSTALL E/// EQUIPMENT IN EXISTING FIF
- INSTALL (1) 6601
- INSTALL (1) XMU
- INSTALL (2) 6651
- INSTALL (1) 6610

CODE COMPLIANCE

- 2018 INTERNATIONAL BUILDING CODE
- 2023 NATIONAL ELECTRICAL CODE
- TIA/EIA-222-H STANDARDS

REFERENCE MATERIALS

- THESE DRAWINGS ARE BASED AT&T SCOPING DOCUMENT DATED 03/29/24
- 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 11"x17" & SCALEABLE ON FULL 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.

7900 XERXES AVE. S  
BLOOMINGTON, MN 55431

AMERICAN TOWER®

DESIGN DEVELOP CONSTRUCT

1100 E. WOODFIELD ROAD, SUITE 500  
SCHAUMBURG, ILLINOIS 60173  
TEL: 847-908-8400  
www.fullerton-us.com

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	08/28/24	ISSUED FOR REVIEW	GL
B	10/02/24	ISSUED FOR REVIEW	RV
O	10/29/24	ISSUED FOR CONSTRUCTION	RV

NOT FOR CONSTRUCTION UNLESS  
LABELED AS FOR CONSTRUCTION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Daniel W Smith

License # 52398

Digitally signed by Daniel W Smith

Date: 2024.10.29 14:29:54 -05'00'

E/// MODERNIZATION

10146456

LAKE SIDE ROBERTS RELO

2120 JEAN DULUTH ROAD

DULUTH, MN 55804-2648

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T1

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T/ EXISTING CANISTER POLE  
ELEV. = 69'-0"± AGL

T/ EXISTING AT&T PANEL ANTENNAS  
ELEV. = 65'-0"± AGL

(3) EXISTING BA-A5A5407X65V-01  
ANTENNAS TO BE REMOVED  
(TYP. 1 PER SECTOR)

(6) EXISTING TMABPD7823VG12A  
TMA UNITS TO BE REMOVED  
(TYP. 2 PER SECTOR)

T/ EXISTING AT&T PANEL ANTENNAS  
ELEV. = 55'-0"± AGL

(3) EXISTING BA-A5A5407X65V-01  
ANTENNAS TO BE REMOVED  
(TYP. 1 PER SECTOR)

REPLACE 20.0 FT OF VENTED  
CONCEALMENT CANISTER  
[34.00"Ø X 0.25" FIBERGLASS SECTION]  
FROM EL: 49.0'± TO 69.0'±

REPLACE 10.0 FT OF VENTED  
CONCEALMENT CANISTER  
[45.00"Ø X 0.25" FIBERGLASS SECTION]  
FROM EL: 39.0'± TO 49.0'±

EXISTING CANISTER POLE

(24) EXISTING 7/8" COAX CABLES  
(6) EXISTING 3/8" RET CONTROL CABLES  
ROUTED INSIDE EXISTING MONOPOLE  
TO REMAIN

- TOWER STRUCTURAL CALCULATIONS PREPARED BY OTHERS. CONTRACTOR TO VERIFY WITH PROJECT MANAGER TO OBTAIN A COPY
- CONTRACTOR TO REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

T/ EXISTING CANISTER POLE  
ELEV. = 69'-0"± AGL

T/ OF PROPOSED AT&T ANTENNAS  
ELEV. = 69'-0"± AGL

CL OF PROPOSED AT&T PANEL ANTENNAS  
ELEV. = 65'-0"± AGL

UTILIZE EXISTING HOIST GRIP  
ANCHORS FOR NEW CABLES

T/ OF PROPOSED AT&T ANTENNAS  
ELEV. = 59'-0"± AGL

CL OF PROPOSED AT&T PANEL ANTENNAS  
ELEV. = 55'-0"± AGL

UTILIZE EXISTING HOIST GRIP  
ANCHORS FOR NEW CABLES

CL OF PROPOSED AT&T PANEL ANTENNAS  
ELEV. = 47'-0"± AGL

(2) PROPOSED  
DC3-48-60-8-1086F  
RAYCAP UNITS MOUNTED  
AT ELEV. 45' BELOW  
PROPOSED AIR6419 B77D  
ANTENNAS

CL OF PROPOSED AT&T PANEL ANTENNAS  
ELEV. = 43'-0"± AGL

NEW HOIST GRIP ANCHOR/CABLE  
SUPPORT MOUNT FOR PIPE FROM  
1.5" TO 8" ATTACHED TO EXISTING  
6-5/8" CENTER MAST PIPE  
MFR: COMMScope  
PART#: 860680188-006  
(SEE A7 FOR DETAILS)

(3) PROPOSED 840-370966K  
ANTENNAS  
(TYP. 1 PER SECTOR)

REPLACED CANISTER

(3) PROPOSED 840-370966K  
ANTENNAS  
(TYP. 1 PER SECTOR)

(3) PROPOSED ANTENNAS  
AIR6419 B77D AND  
(3) PROPOSED ANTENNAS  
AIR6419 B77G STACKED  
(TYP. 1 EACH PER SECTOR)

REPLACED CANISTER

EXISTING MONOPOLE

(24) EXISTING 7/8" COAX CABLES  
(6) EXISTING 3/8" RET CONTROL CABLES  
ROUTED INSIDE EXISTING MONOPOLE

(24) PROPOSED 7/8" COAX CABLES  
(2) PROPOSED 0.40" (6 PAIR) FIBER TRUNKS  
(2) PROPOSED 0.96" 6 AWG 6 DC TRUNKS  
ROUTED INSIDE EXISTING MONOPOLE



1100 E. WOODFIELD ROAD, SUITE 500  
SCHAUMBURG, ILLINOIS 60173  
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#### REVISIONS

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O	10/29/24	ISSUED FOR CONSTRUCTION	RV

NOT FOR CONSTRUCTION UNLESS  
LABELED AS FOR CONSTRUCTION

I hereby certify that this plan,  
specification, or report was  
prepared by me or under my  
direct supervision and that I am  
a duly Licensed Professional  
Engineer under the laws of the  
State of Minnesota

**Daniel W Smith**  
License # 52398

E/// MODERNIZATION  
10146456  
LAKESIDE ROBERTS RELO  
2120 JEAN DULUTH ROAD  
DULUTH, MN 55804-2648

SHEET TITLE

TOWER  
ELEVATION

SHEET NUMBER

**A3**

EXISTING TOWER ELEVATION

SCALE  
N.T.S.

1

PROPOSED TOWER ELEVATION

SCALE  
N.T.S.

2

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NOT FOR CONSTRUCTION UNLESS LABELED AS FOR CONSTRUCTION			



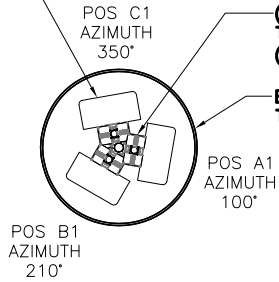
EXISTING ANTENNA PLAN

0'6"1"2"

SCALE: 1/2" = 1'-0" (24x36)  
(OR) 1/4" = 1'-0" (11x17)

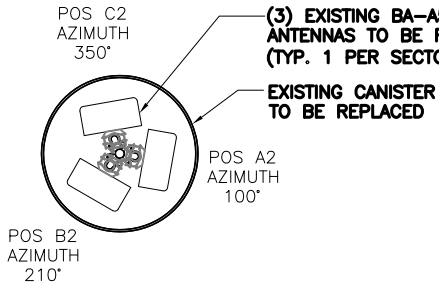
1

(3) EXISTING BA-A5A5407X65V-01  
ANTENNAS TO BE REMOVED  
(TYP. 1 PER SECTOR)



**RAD 065'-0"**

(3) EXISTING BA-A5A5407X65V-01  
ANTENNAS TO BE REMOVED  
(TYP. 1 PER SECTOR)

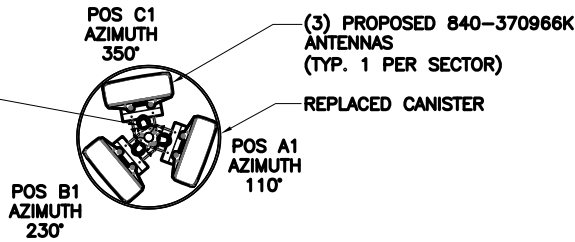


**RAD 055'-0"**

REPLACE 20.0 FT OF VENTED  
CONCEALMENT CANISTER  
[34.00"Ø X 0.25" FIBERGLASS SECTION]  
FROM EL: 49.0'± TO 69.0'±

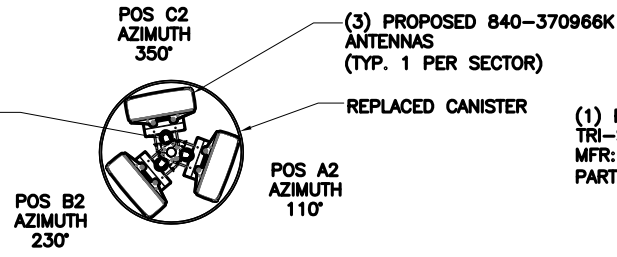
REPLACE 10.0 FT OF VENTED  
CONCEALMENT CANISTER  
[45.00"Ø X 0.25" FIBERGLASS SECTION]  
FROM EL: 39.0'± TO 49.0'±

(1) PROPOSED UNIVERSAL  
TRI-SECTOR MOUNT KIT:  
MFR: SITE PRO 1  
PART #: UTSM



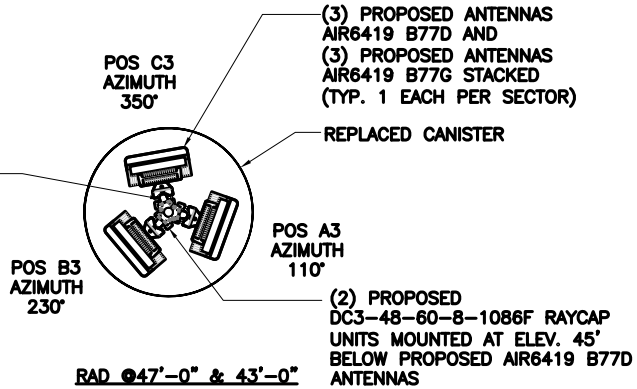
**RAD 065'-0"**

(1) PROPOSED UNIVERSAL  
TRI-SECTOR MOUNT KIT:  
MFR: SITE PRO 1  
PART #: UTSM



**RAD 055'-0"**

(1) PROPOSED UNIVERSAL  
TRI-SECTOR MOUNT KIT:  
MFR: SITE PRO 1  
PART #: UTSM



**RAD 047'-0" & 43'-0"**



PROPOSED ANTENNA PLAN

0'6"1"2"

SCALE: 1/2" = 1'-0" (24x36)  
(OR) 1/4" = 1'-0" (11x17)

2

I hereby certify that this plan,  
specification, or report was  
prepared by me or under my  
direct supervision and that I am  
a duly Licensed Professional  
Engineer under the laws of the  
State of Minnesota

**Daniel W Smith**  
License # 52398

E/// MODERNIZATION  
10146456  
LAKESIDE ROBERTS RELO  
2120 JEAN DULUTH ROAD  
DULUTH, MN 55804-2648

SHEET TITLE

ANTENNA  
PLAN

SHEET NUMBER

**A4**