




Planning & Development Division
Planning & Economic Development Department

Room 160
 411 West First Street
 Duluth, Minnesota 55802

 218-730-5580

 planning@duluthmn.gov

File Number	PL 23-203	Contact	Chris Lee, clee@duluthmn.gov	
Type	Concurrent Use Permit, Wireless Utility on Light Pole	Planning Commission Date		March 12, 2024
Deadline for Action	Application Date	January 18, 2024	60 Days	March 18, 2024
	Date Extension Letter Mailed	January 18, 2024	120 Days	May 17, 2024
Location of Subject	Near 5302 Oneida St			
Applicant	MasTec	Contact		
Agent		Contact		
Legal Description	N/A			
Site Visit Date	February 27, 2024	Sign Notice Date		February 27, 2024
Neighbor Letter Date	N/A	Number of Letters Sent		N/A

Proposal

The applicant is seeking a concurrent use permit to allow an antenna and equipment on an existing pole, as well as a handhole for power and a handhole for fiber placed in the ground, within the public right of way.

Recommended Action: Recommend to the city council to approve with conditions.

	Current Zoning	Existing Land Use	Future Land Use Map Designation
Subject	R-1	Right of Way	Traditional Neighborhood
North	R-1	Institutional/School	Traditional Neighborhood
South	R-1	Residential	Traditional Neighborhood
East	R-1	Residential	Traditional Neighborhood
West	R-1	Residential	Traditional Neighborhood

Summary of Code Requirements

UDC Section 50-37.7.C. The planning commission shall review the application, and council shall approve the application or approve it with modifications, if it determines that the proposed concurrent use will not harm or inconvenience the health, safety and general welfare of the city, and no portion of a public easement proposed of use is being physically occupied by the public.

Comprehensive Plan Governing Principle and/or Policies and Current History (if applicable):

Governing Principle #4 - Support emerging economic growth sectors. Emerging economic sectors add economic, cultural and social diversity. These include higher education, medical, value-added manufacturing, commercial outdoor recreation, historic resources interpretation, arts and music, information technology and visitor services.

Future Land Use: Traditional Neighborhood: Characterized by grid or connected street pattern, houses oriented with shorter dimension to the street and detached garages, some with alleys. Limited commercial, schools, churches, and home businesses. Parks and open space areas are scattered through or adjacent to the neighborhood.

This is a companion zoning application to PL 23-204, -205, -206, -207, -208, -209, -210, -212, -213, also concurrent use permits for wireless equipment on existing or new utility poles. The installation falls with the provisions of Minnesota Statute 237.162 and 247.1643, as amended in 2017.

Discussion

Staff finds that:

- 1) The small cell wireless facility will be installed on a replacement Minnesota Power wooden pole. The street light will be re-attached to the pole at 29 feet, and the wireless equipment will be placed at 35 to 37 feet, with a radio at 16 feet. There will be no ground mounted equipment. The new pole will have a structural analysis by the manufacturer to ensure that they can support the weight of the private small cell facilities.
- 2) Granting a concurrent use permit would give the applicant the ability to use a portion of the right of way, with conditions, while preserving other existing public uses. Unlike street right-of-way vacations, concurrent use permits are not recorded at the County as they are voidable permits issued by the City to applicants who are private users of public rights of way.
- 3) Ownership of the pole will remain with Minnesota Power. Liability, maintenance, and operation of the small cell facilities will remain the responsibility of the applicant. In the event of an accident, such as a vehicle hitting the utility pole, the city is not responsible for restoring or replacing any of the applicant's equipment.
- 4) Granting the proposed concurrent use permits will not harm or inconvenience the health, safety and general welfare of the city. It will not cause any additional obstructions within the right of way, and the applicant will be required to maintain liability insurance over their facilities, with the City of Duluth named an additional insured on the policy.
- 5) The UDC generally requires that new wireless facilities follow a location standard: they should be collocated on existing towers or other structures on city owned properties first, and then existing towers or other structures on other (private) property, and so forth down the location standard list. As these small cell facilities would be located on existing infrastructure in public right of way, and as per the recent change in state statute, the city is processing these applications as concurrent use permits and not special use permits, and the UDC's use-specific standards do not apply in this specific situation.
- 6) The city has the ability to regulate land use; however, the Federal Communications Commission preempts local review on the potential environmental effects of radio frequency (RF) emissions, with the presumption that the applicant and service provider is in compliance with the Commission's RF rules. The applicant included an FCC checklist used to determine exemption from RF regulations (unlikely to cause exposure in excess of the FCC's guidelines). The installation falls with the provisions of Minnesota Statute 237.162 and 247.1643, as amended in 2017.
- 7) The ordinance will require that the project proposer will locate any underground items in accordance with Gopher State One Call rules, and that the city will bear no responsibility for locating any facility related to the concurrent use permit except as it is legally responsible under the Gopher State One Call rules.
- 8) No public, agency, or Citizen comments have been received.

Staff Recommendation:

Based on the above findings, Staff recommends that the Planning Commission recommend approval of the concurrent use permit subject to the following conditions:

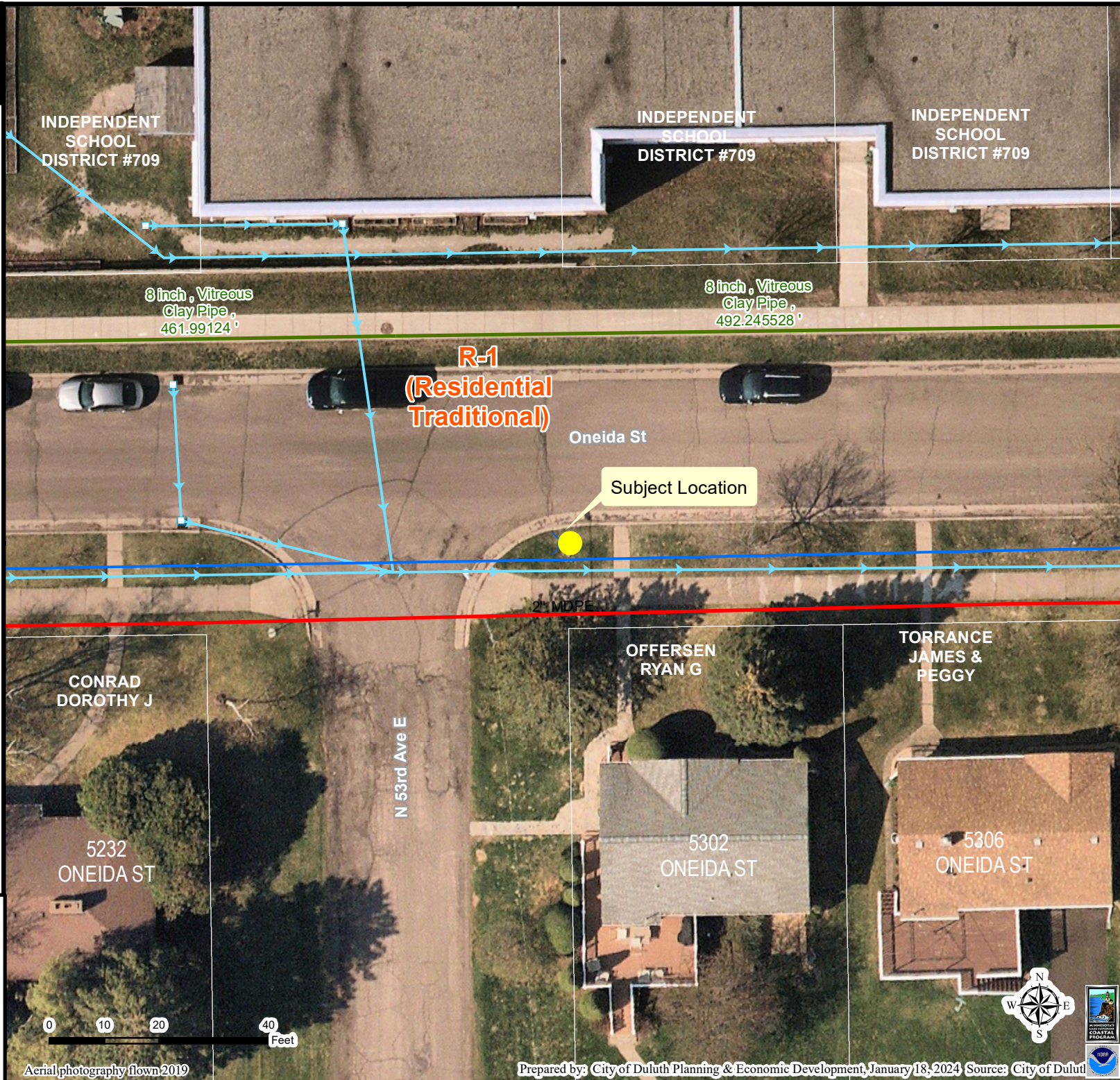
- 1) The project be limited to, constructed, and maintained according to construction drawings submitted and included with this staff report along with any revisions as requested by City Engineering.
- 2) Applicant, and/or successors, shall remove the proposed obstructions at applicant's expense if directed to do so by the City with appropriate notice, and shall adhere to other standards and obligations established in the approving document (ordinance).
- 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, all other changes must be approved by amending the City Council's approved ordinance.



PL23-203
Small Cell CUP
5302 Oneida St

Legend

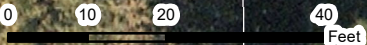
- Gas Main
- Water Main
- Hydrant
- Sanitary Sewer Mains**
 - CITY OF DULUTH
 - WLS&D; PRIVATE
- Sanitary Sewer Forced Main
- Storage Basin
- PS Pump Station
- Storm Sewer Mains**
 - Storm Sewer Pipe
 - Storm Sewer Catch Basin
- Zoning Boundaries**
 - Trout Stream (GPS)
 - Other Stream (GPS)



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, January 18, 2024 Source: City of Duluth





AT&T

PROJECT: MNP_MASTEC_CRAN
 SITE NAME: CRAN_RUMW_LESTR_006
 USID: 326866
 SKIP ID / NODE#: MNL07062F_R03
 PACE NUMBER: MRUMW032157
 PTN NUMBER: 3514A0LLZ0
 FA NUMBER: 14865315
 IWM JOB: WSUMW0024722
 COORDINATES: 46.839294°, -92.018040°
 SITE ADDRESS: 5300 OIEDA STREET
 DULUTH, MN 55804



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 7900 XERXES AVENUE S.
 BLOOMINGTON, MN 55431

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

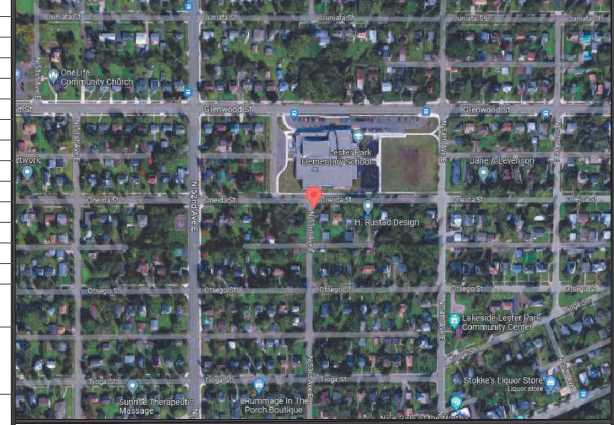
Print Name: RAPHHAEL MOHAMED
 Signature:
 Date: 11/03/23 License #: 44557

MASTEC NETWORK SOLUTIONS MINNESOTA
 PE LICENSE RENEWAL 06/30/2024

PROJECT INFORMATION

PROJECT:	MNP_MASTEC_CRAN
SITE NAME:	CRAN_RUMW_LESTR_006
USID:	326866
PACE NUMBER:	MRUMW032157
LATITUDE:	46.839294°
LONGITUDE:	-92.018040°
SITE ADDRESS:	5300 OIEDA STREET
CITY, STATE ZIP:	DULUTH, MN 55804
COUNTY:	ST. LOUIS
JURISDICTION:	CITY OF DULUTH
STRUCTURE TYPE:	WOOD LIGHT POLE
STRUCTURE OWNER:	MINNESOTA POWER
POLE PART NUMBER:	CLASS 3 #M5413280
GROUND ELEVATION:	724' ± A.M.S.L.
APPLICANT:	AT&T WIRELESS 7900 XERXES AVENUE S. BLOOMINGTON, MN 55431
SITE ACQUISITION:	HAZEL MAURO - SITE ACQUISITION PROJECT MANAGER HAZEL.MAURO@MASTEC.COM (913) 710-3999
ENGINEERING SERVICES:	MASTEC NETWORK SOLUTIONS 1151 SE CARY PARKWAY, SUITE 101 CARY, NC 27518 - (972) 581-9888

AERIAL PHOTO



SHEET INDEX

SHEET #	SHEET TITLE
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C-2	ENLARGED SITE PLAN
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C-4	PROPOSED POLE ELEVATIONS
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PS-2	PHOTO SIMULATION
EQ-1	EQUIPMENT DETAILS
EQ-2	EQUIPMENT DETAILS
EQ-3	EQUIPMENT DETAILS
EQ-4	EQUIPMENT DETAILS
RF-1	PLUMBING DIAGRAM
E-1	ELECTRICAL DETAILS
G-1	GROUNDING DETAILS
TC-1	TRAFFIC CONTROL PLAN
GN-1	GENERAL NOTES

SCOPE OF WORK

- REPLACE EXISTING 24'-0" A.G.L. WOOD POLE WITH NEW 40'-0" CLASS 3 WOOD LIGHT POLE PAINTED BROWN INCLUDING 2' OMNI ANTENNA ON TOP MOUNTED ON EXTENSION BRACKET. TOTAL HEIGHT OF 37'-3" A.G.L.
- INSTALL NEW EQUIPMENT BRACKET ON POLE INCLUDING (1) DUAL BAND B25/B66 RRH WITH (1) PSU PER MANUFACTURER'S SPECIFICATIONS.
- INSTALL METER ON POLE PER MANUFACTURERS SPECIFICATIONS AND PER UTILITY AND NEC REQUIREMENTS.

STRUCTURE PHOTO



CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH CURRENT EDITIONS OF THE FOLLOWING APPLICABLE CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- 2018 INTERNATIONAL BUILDING CODE
- 2020 NATIONAL ELECTRIC CODE

THESE DRAWINGS ARE DESIGNED TO THE LATEST CODES. THEY ALSO MEET THE ADOPTED CODE REQUIREMENTS OF THE LOCAL JURISDICTION.

ONE CALL



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

MASTEC NETWORK SOLUTIONS, IS REGISTERED IN MN
 FOR CONSTRUCTION

SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	08/01/23	CD FOR REVIEW	ES
B	08/16/23	CD FOR REVIEW	ES
C	09/20/23	REVISED CD	MN
0	09/25/23	FINAL CD	MN
1	11/03/23	PER LOCATES ADD	MN

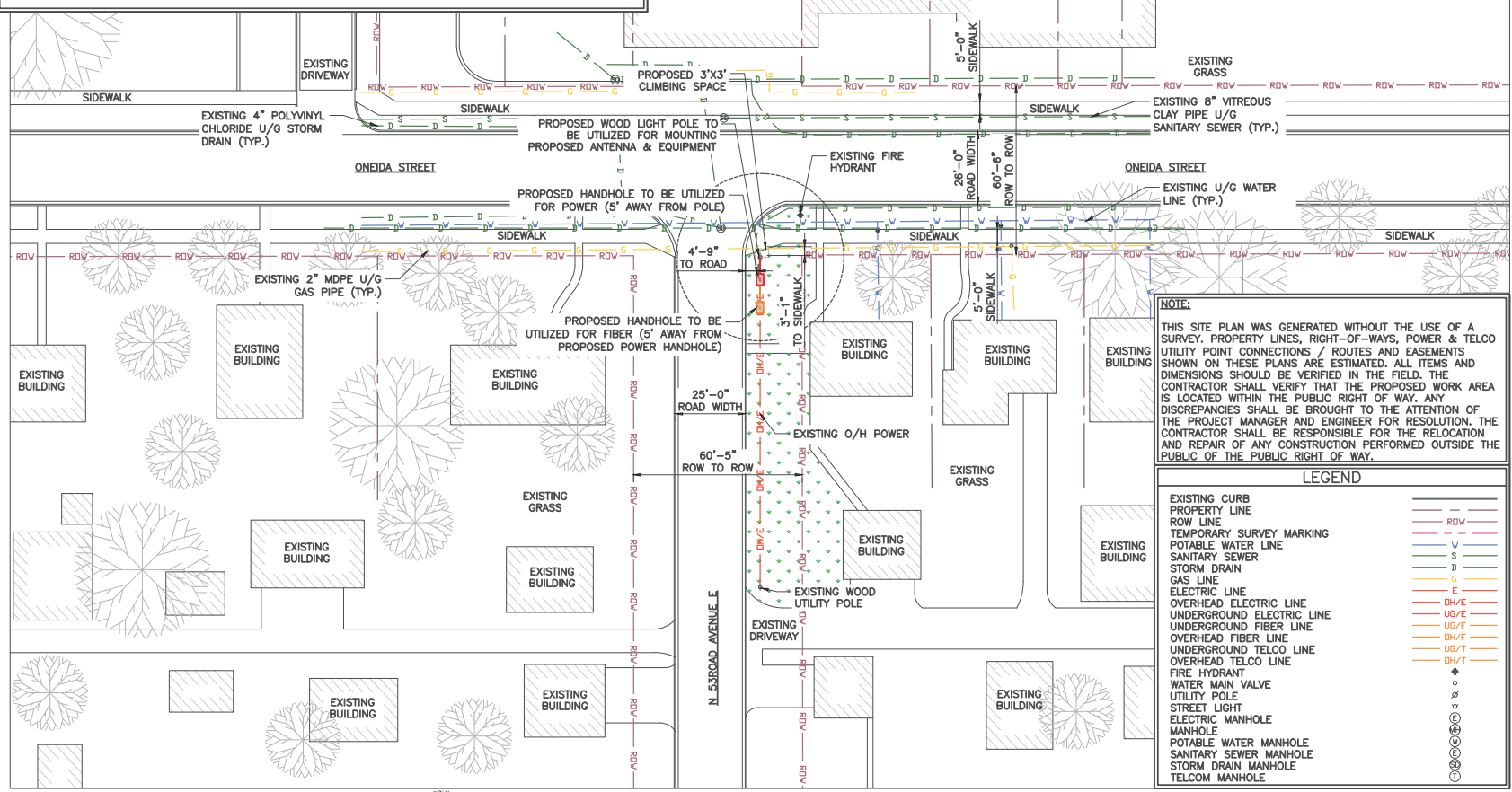
CHECKED BY: MH CHECKED DATE: 11/03/23

SITE INFORMATION:
 SITE NAME: CRAN_RUMW_LESTR_006
 PACE NUMBER: MRUMW032157
 SITE ADDRESS: 5300 OIEDA STREET
 DULUTH, MN 55804
 SITE COORDINATES: 46.839294°, -92.018040°

SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1

- NOTES:**
1. POC TO BE DETERMINED BY LOCAL UTILITY COMPANY.
 2. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES WHERE WORK IS TO BE PERFORMED.
 3. CONTRACTOR TO RESTORE EXISTING GRASS, SIDEWALK, CONCRETE AND ASPHALT AREA THAT HAS BEEN DISTURBED ONCE CONSTRUCTION IS COMPLETED.
 4. CONTRACTOR SHALL COORDINATE WITH CITY OF DULUTH TRAFFIC (218-730-5200) FOR THE REMOVAL AND REINSTALLATION OF EXISTING SIGNS ON AFFECTED STREET LIGHT POLES.
 5. CITY OF DULUTH RESPONSIBLE FOR TURNING OFF POWER TO THE EXISTING LIGHT POLE.
 6. CONTRACTOR TO CONTACT CITY OF DULUTH STREET MAINTENANCE (730-5200) TO OBTAIN AN EXCAVATION PERMIT BEFORE STARTING ALL WORK.
 7. THE EXISTING STREET LIGHT IS TO REMAIN IN PLACE UNTIL THE REPLACEMENT STREET LIGHT AND POLE ARE INSTALLED AND POWERED.
 8. ANY TRAFFIC CONTROL MEASURES MUST COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE CITY OF DULUTH MANUAL OF BARRICADING STANDARDS, SPECIFICATIONS, METHODS AND MATERIALS AND THE CITY OF DULUTH PUBLIC WORKS DEPARTMENT SIDEWALK CLOSURE POLICY.



NOTE:
 THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, RIGHT-OF-WAYS, POWER & TELCO UTILITY POINT CONNECTIONS / ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD. THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED WORK AREA IS LOCATED WITHIN THE PUBLIC RIGHT OF WAY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER AND ENGINEER FOR RESOLUTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND REPAIR OF ANY CONSTRUCTION PERFORMED OUTSIDE THE PUBLIC OF THE PUBLIC RIGHT OF WAY.

LEGEND

EXISTING CURB	---
PROPERTY LINE	---
ROW LINE	---
TEMPORARY SURVEY MARKING	---
POTABLE WATER LINE	---
SANITARY SEWER	---
STORM DRAIN	---
GAS LINE	---
ELECTRIC LINE	---
OVERHEAD ELECTRIC LINE	---
UNDERGROUND ELECTRIC LINE	---
UNDERGROUND FIBER LINE	---
OVERHEAD FIBER LINE	---
UNDERGROUND TELCO LINE	---
OVERHEAD TELCO LINE	---
FIRE HYDRANT	◆
WATER MAIN VALVE	○
UTILITY POLE	⊙
STREET LIGHT	⊙
ELECTRIC MANHOLE	⊙
POTABLE WATER MANHOLE	⊙
SANITARY SEWER MANHOLE	⊙
STORM DRAIN MANHOLE	⊙
TELCO MANHOLE	⊙

① SITE PLAN



11"x17" SCALE: 1" = 40'-0"
 22"x34" SCALE: 1" = 20'-0"



AT&T
 7900 XERES AVENUE S.
 BLOOMINGTON, MN 55431

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

Print Name: RAPHAEL MOHAMED

Signature: _____

Date: 11/03/23 License #: 44557

MASTEC NETWORK SOLUTIONS MINNESOTA
 PE LICENSE RENEWAL 06/30/2024

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FOR CONSTRUCTION

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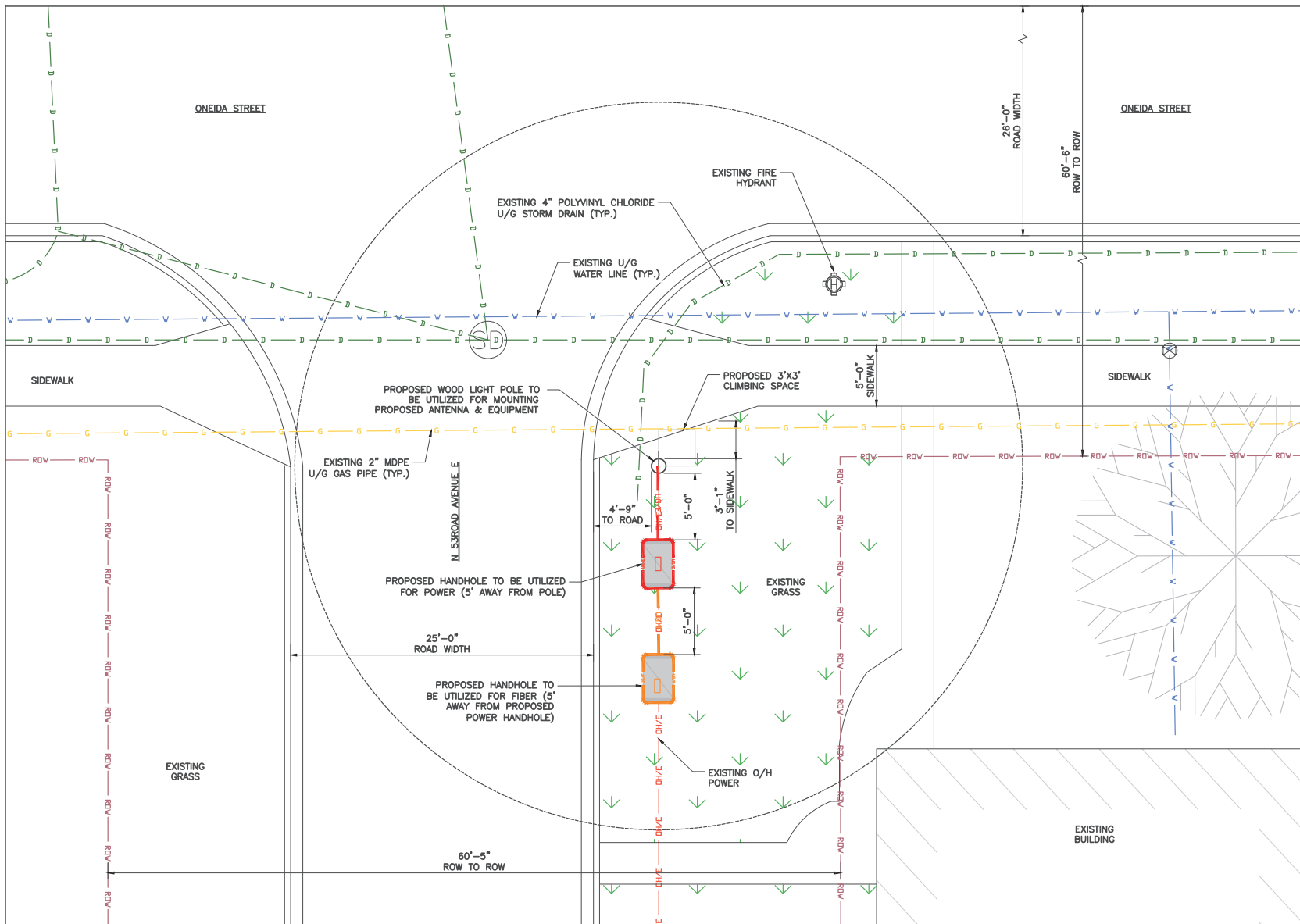
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PREPARED BY: MH DATE: 11/03/23

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 FILE NUMBER: MRUMW032157
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 COORDINATES: 46.839294°, -92.018040°

SITE PLAN

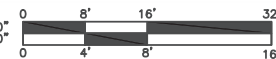
SHEET NUMBER: C-1



1 ENLARGED SITE PLAN



11"x17" SCALE: 1/16" = 1'-0"
 22"x34" SCALE: 1/8" = 1'-0"



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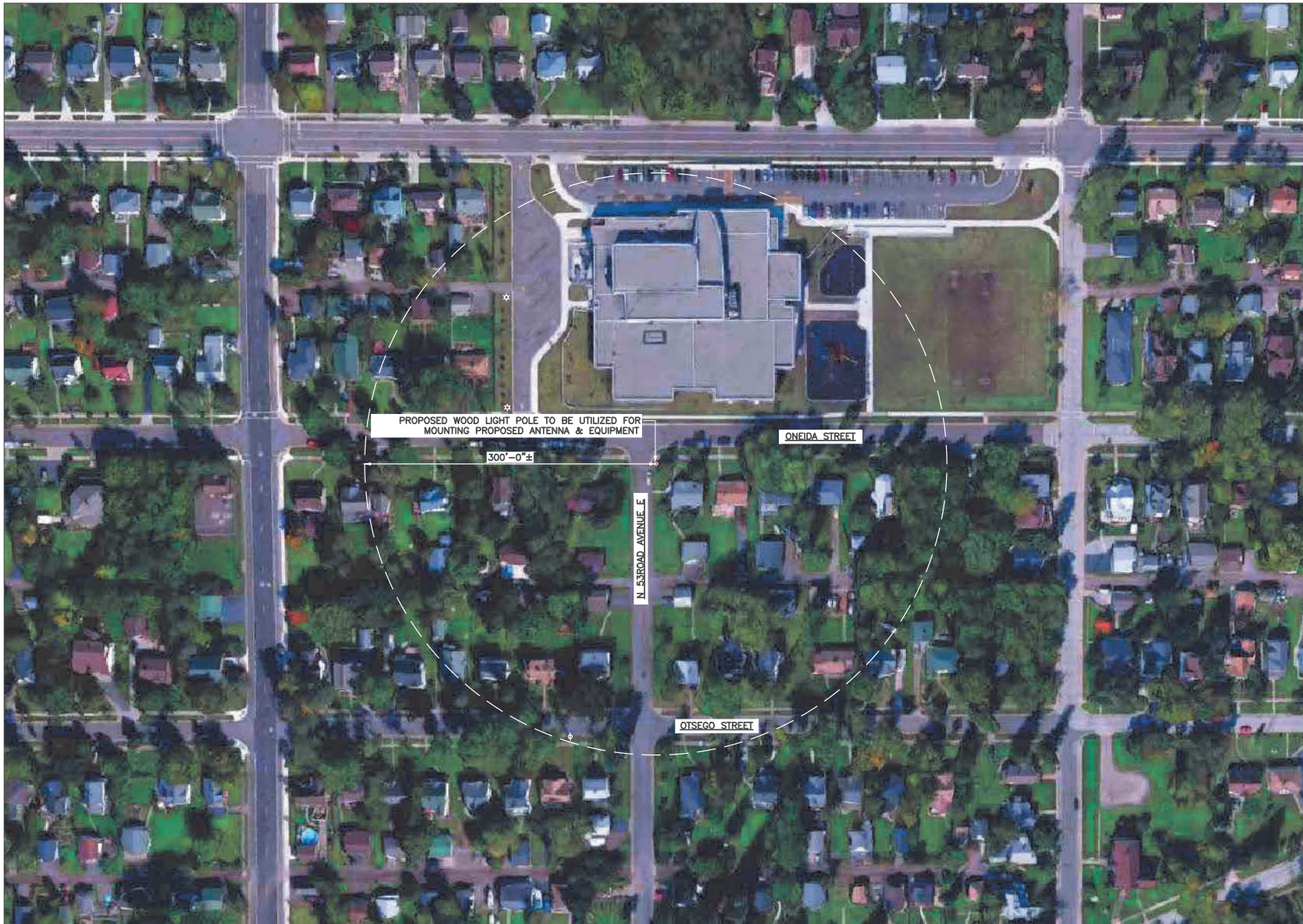
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ENLARGED SITE PLAN

SHEET NUMBER: C-2



1 AERIAL PLAN



11"x17" SCALE: 1" = 100'-0"
 22"x34" SCALE: 1" = 50'-0"



Mastec
 Network Solutions

1151 SE CARY PARKWAY,
 SUITE 101 CARY, NC 27518



AT&T
 7900 XERVES AVENUE S.
 BLOOMINGTON, MN 55431

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PROJECT STATUS:

FOR
 CONSTRUCTION

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DESIGNED BY: MH CHECKED DATE: 11/03/23

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DULUTH, MN 55804
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SHEET TITLE:
 AERIAL MAP

SHEET NUMBER:
 C-3

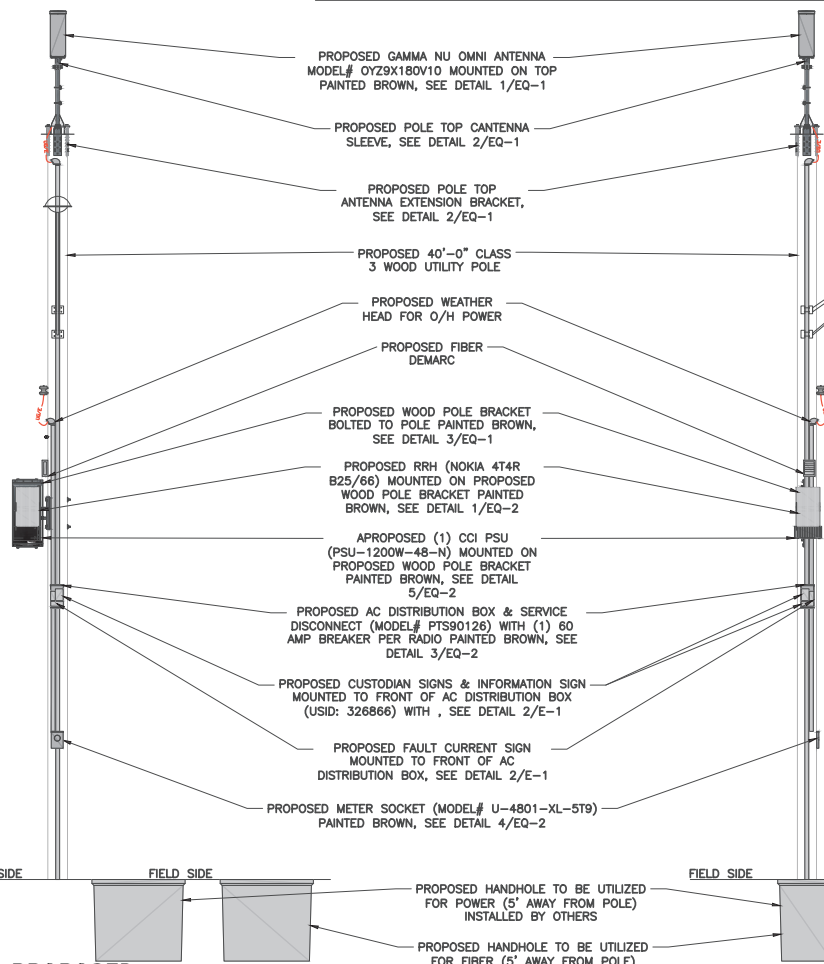
NOTE:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, PRIOR TO THE ONSET OF CONSTRUCTION, THAT THE SUPPORTING STRUCTURE(S) AND MOUNTING SYSTEM(S) HAVE BEEN DEEMED STRUCTURALLY ADEQUATE BY A LICENSED PROFESSIONAL ENGINEER TO SUPPORT THE EXISTING AND PROPOSED EQUIPMENT AND ASSOCIATED CONSTRUCTION LOADS, INCLUDING BUT NOT LIMITED TO THOSE DEPICTED, HEREIN, THE CONTRACTOR SHALL ASSUME THE FULL-LIABILITY AND RISK ASSOCIATED WITH THE INSTALLATION OF THE PROPOSED EQUIPMENT AND/OR APPURTENANCES IF PERFORMED WITHOUT SAID PASSING STRUCTURAL ANALYSIS OR EVALUATION. IF THE RESULT OF THE ANALYSIS REQUIRES THE STRUCTURE BE STRENGTHENED OR MODIFIED; SUCH MODIFICATIONS SHALL BE PROPERLY INSTALLED AND COMPLETED PRIOR TO THE ONSET OF CONSTRUCTION.

NOTES:

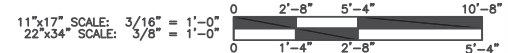
1. CONTRACTOR TO COMPLY WITH ALL FCC AND FAA REGULATIONS ON THIS PROJECT.
2. CONTRACTOR SHALL COORDINATE WITH CITY OF DULUTH TRAFFIC (218-730-5200) FOR THE REMOVAL AND REINSTALLATION OF EXISTING SIGNS ON AFFECTED STREET LIGHT POLES.
3. PROPOSED EQUIPMENT PAINTED TO MATCH PROPOSED POLE COLOR.
4. CONTRACTOR SHOULD REINSTALL EXISTING BANNERS/SIGNS FROM THE EXISTING POLE TO THE PROPOSED POLE.
5. ALL AZIMUTHS ARE TRUE NORTH. IF A MAGNETIC COMPASS IS USED MAGNETIC DECLINATION MUST BE TAKEN INTO ACCOUNT WHEN ALIGNING ANTENNAS AND ANTENNA MOUNTS.

- * TOP OF PROPOSED ANTENNA
ELEV: 37'-3" ± A.G.L.
- * C.L. OF PROPOSED ANTENNA
ELEV: 36'-3" ± A.G.L.
- * TOP OF PROPOSED CANTENNA SLEEVE
ELEV: 35'-4" ± A.G.L.
- * TOP OF PROPOSED EXTENSION BRACKET
ELEV: 35'-0" ± A.G.L.
- * TOP OF PROPOSED POLE
ELEV: 32'-0" ± A.G.L.
- * TOP OF EXISTING LUMINAIRE
ELEV: 29'-4" ± A.G.L.
- * TOP OF EXISTING STREET LIGHT BRACKET
ELEV: 23'-3" ± A.G.L.
- * EXISTING SECONDARY
ELEV: 22'-0" ± A.G.L.
- * PROPOSED WEATHERHEAD
ELEV: 21'-0" ± A.G.L.
- * PROPOSED FIBER
ELEV: 19'-0" ± A.G.L.
- * PROPOSED FIBER DEMARC
ELEV: 18'-0" ± A.G.L.
- * TOP OF PROPOSED BRACKET
ELEV: 17'-2" ± A.G.L.
- * TOP OF PROPOSED RADIO
ELEV: 16'-10" ± A.G.L.
- * TOP OF PROPOSED PSU
ELEV: 15'-2" ± A.G.L.
- * BOTTOM OF PROPOSED RADIO
ELEV: 15'-0" ± A.G.L.
- * BOTTOM OF PROPOSED PSU
ELEV: 14'-8" ± A.G.L.
- * BOTTOM OF PROPOSED BRACKET
ELEV: 14'-3" ± A.G.L.
- * BOTTOM OF PROPOSED DISCONNECT
ELEV: 11'-8" ± A.G.L.
- * C.L. OF PROPOSED METER
ELEV: 8'-0" ± A.G.L.
- * EXISTING GRADE
ELEV: 0'-0" A.G.L.
- * PROPOSED HANDHOLE
ELEV: 3'-6" B.G.L.



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- * C.L. OF PROPOSED ANTENNA
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- * TOP OF PROPOSED RADIO
ELEV: 16'-10" ± A.G.L.
- * TOP OF PROPOSED PSU
ELEV: 15'-2" ± A.G.L.
- * BOTTOM OF PROPOSED RADIO
ELEV: 15'-0" ± A.G.L.
- * BOTTOM OF PROPOSED PSU
ELEV: 14'-8" ± A.G.L.
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ELEV: 3'-6" B.G.L.

① POLE ELEVATIONS



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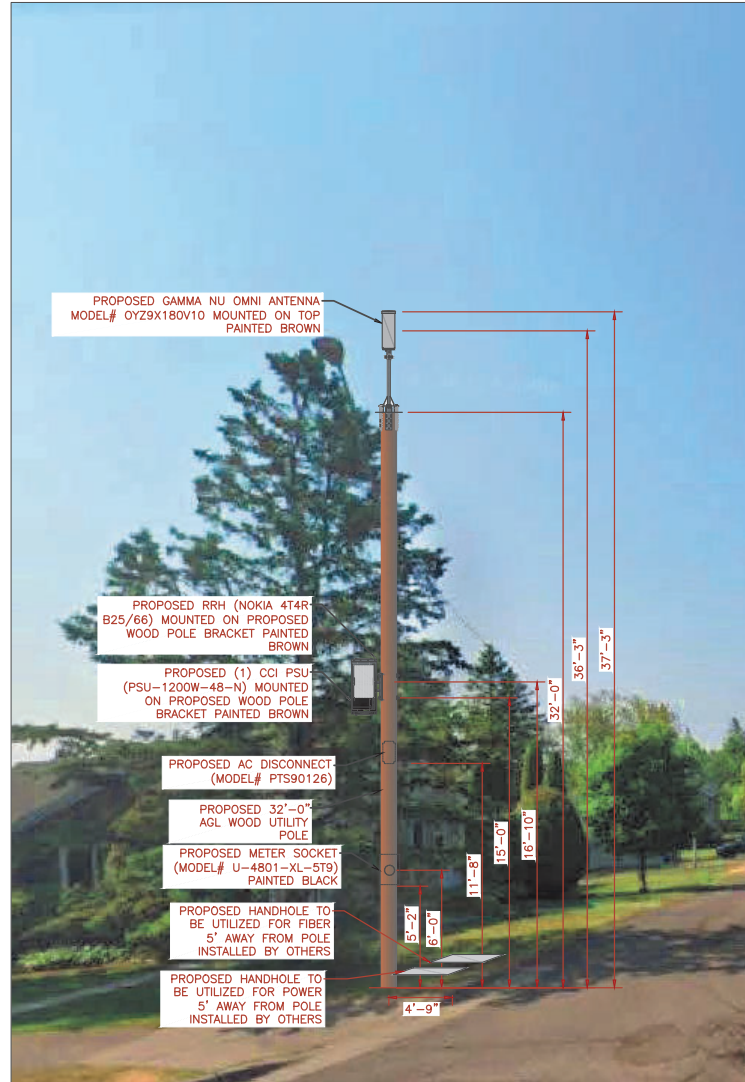
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FILE NUMBER:
MRUMW032157
SITE ADDRESS:
5300 OJEDA STREET
DULUTH, MN 55804
SITE COORDINATES:
46.839294°, -92.018040°

SHEET TITLE:
ELEVATION

SHEET NUMBER:
C-4



EXISTING SOUTH VIEW



PROPOSED SOUTH VIEW

PROPOSED GAMMA NU OMNI ANTENNA
MODEL# OY29X180V10 MOUNTED ON TOP
PAINTED BROWN

PROPOSED RRH (NOKIA 4T4R-
B25/66) MOUNTED ON PROPOSED
WOOD POLE BRACKET PAINTED
BROWN

PROPOSED (1) CCI PSU-
(PSU-1200W-48-N) MOUNTED
ON PROPOSED WOOD POLE
BRACKET PAINTED BROWN

PROPOSED AC DISCONNECT-
(MODEL# PTS90126)

PROPOSED 32'-0"
AGL WOOD UTILITY
POLE

PROPOSED METER SOCKET
(MODEL# U-4801-XL-ST9)
PAINTED BLACK

PROPOSED HANDHOLE TO
BE UTILIZED FOR FIBER
5' AWAY FROM POLE
INSTALLED BY OTHERS

PROPOSED HANDHOLE TO
BE UTILIZED FOR POWER
5' AWAY FROM POLE
INSTALLED BY OTHERS

Dimensions:
37'-3"
36'-3"
32'-0"
16'-10"
16'-0"
11'-8"
6'-0"
5'-2"
4'-9"

1 SITE LOCATION PHOTOS

ALL EQUIPMENT AND ANTENNA WILL BE PAINTED TO MATCH PROPOSED POLE COLOR.

Mastec
Network Solutions
1151 SE CARY PARKWAY,
SUITE 101 CARY, NC 27518



AT&T
7900 XERVES AVENUE S.
BLOOMINGTON, MN 55431

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

Print Name: RAPHAEL MOHAMED
Signature: _____
Date 11/03/23 License # 44557

MASTEC NETWORK SOLUTIONS MINNESOTA
PE LICENSE RENEWAL 06/30/2024

MASTEC NETWORK SOLUTIONS, IS REGISTERED IN MN

FOR
CONSTRUCTION

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	08/01/23	CD FOR REVIEW	ES
B	08/16/23	CD FOR REVIEW	ES
C	09/20/23	REVISED CD	MN
0	09/25/23	FINAL CD	MN
1	11/03/23	PER LOCATES ADD	MN

PROJECT BY: **MH** CHECKED DATE: **11/03/23**

SITE INFORMATION:

SITE NAME:
CRAN_RUMW_LESTR_006

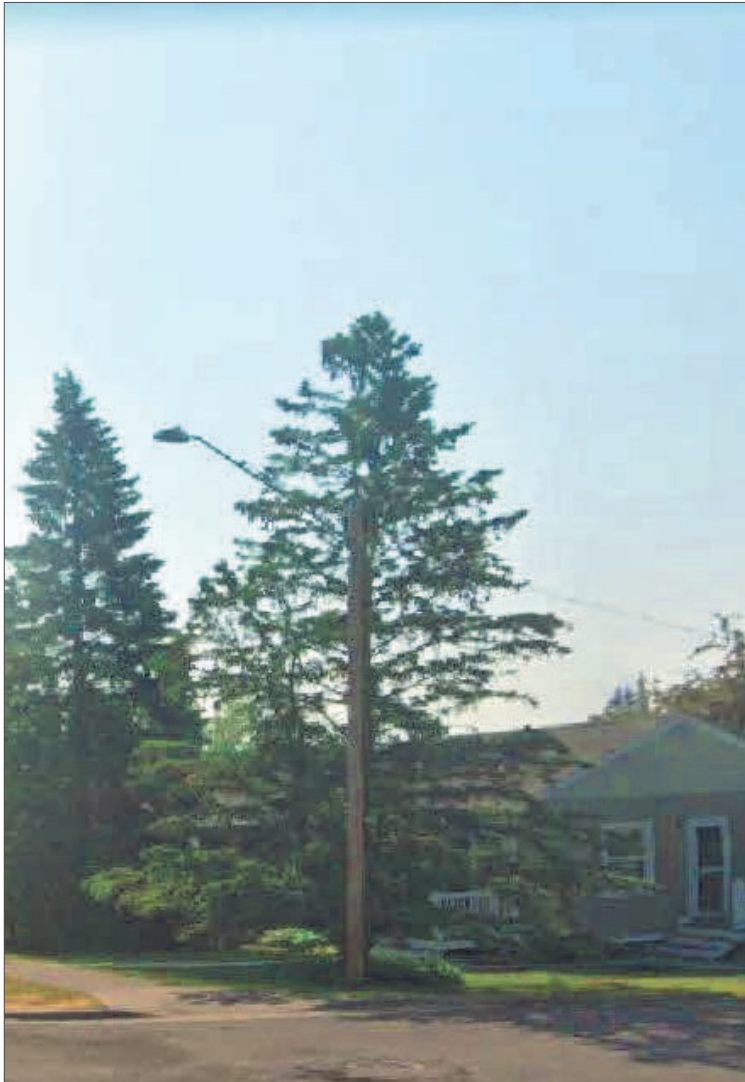
POLE NUMBER:
MRUMW032157

POLE ADDRESS:
**5300 OIEDA STREET
DULUTH, MN 55804**

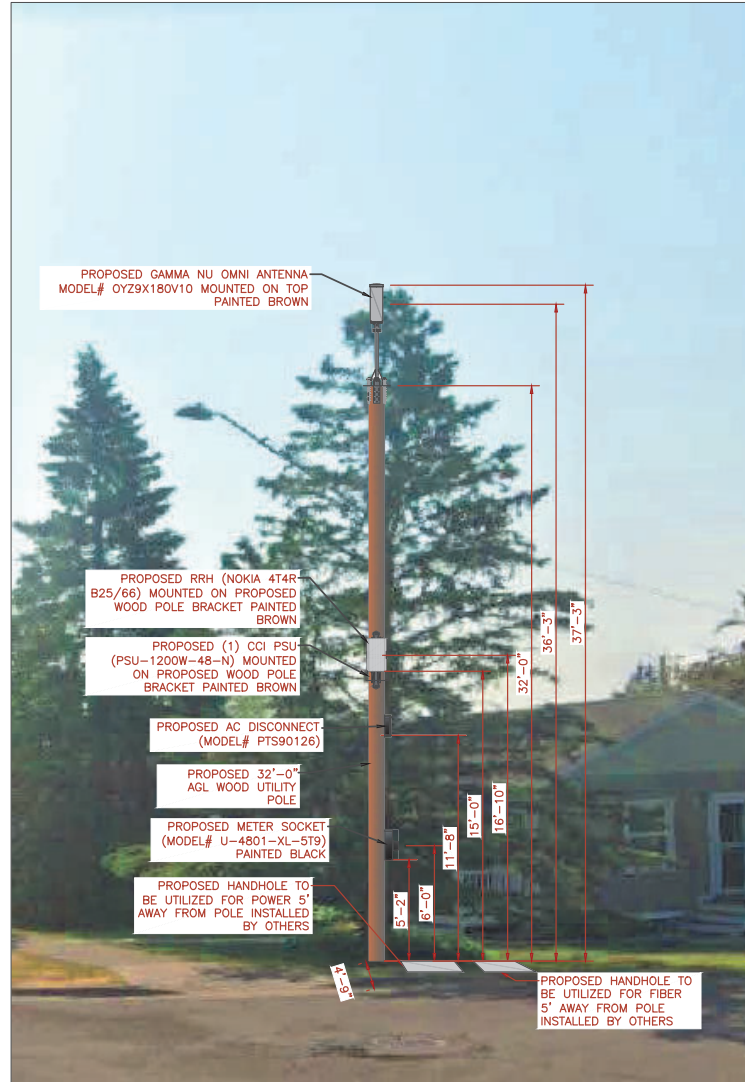
UTM COORDINATES:
46.839294°, -92.018040°

SHEET TITLE:
PHOTO SIMULATION

SHEET NUMBER:
PS-1



EXISTING WEST VIEW



PROPOSED WEST VIEW

PROPOSED GAMMA NU OMNI ANTENNA
MODEL# OYZ9X180V10 MOUNTED ON TOP
PAINTED BROWN

PROPOSED RRH (NOKIA 4T4R-
B25/66) MOUNTED ON PROPOSED
WOOD POLE BRACKET PAINTED
BROWN

PROPOSED (1) CCI PSU
(PSU-1200W-48-N) MOUNTED
ON PROPOSED WOOD POLE
BRACKET PAINTED BROWN

PROPOSED AC DISCONNECT-
(MODEL# PTS90126)

PROPOSED 32'-0"
AGL WOOD UTILITY
POLE

PROPOSED METER SOCKET-
(MODEL# U-4801-XL-5T9)
PAINTED BLACK

PROPOSED HANDHOLE TO
BE UTILIZED FOR POWER 5'
AWAY FROM POLE INSTALLED
BY OTHERS

PROPOSED HANDHOLE TO
BE UTILIZED FOR FIBER
5' AWAY FROM POLE
INSTALLED BY OTHERS

1 SITE LOCATION PHOTOS

ALL EQUIPMENT AND ANTENNA WILL BE PAINTED
TO MATCH PROPOSED POLE COLOR.

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Network Solutions
1151 SE CARY PARKWAY,
SUITE 101 CARY, NC 27518



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Signature: _____

Date: 11/03/23 License # 44557

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REV	DATE	DESCRIPTION	BY
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C	09/20/23	REVISED CD	MN
D	09/25/23	FINAL CD	MN
1	11/03/23	PER LOCATES ADD	MN

DESIGNED BY: MH CHECKED DATE: 11/03/23

SITE INFORMATION:
SITE NAME: CRAN_RUMW_LESTR_006
FILE NUMBER: MRUMW032157
SITE ADDRESS: 5300 OJEDA STREET
DULUTH, MN 55804
SITE COORDINATES: 46.839294, -92.018040

SHEET TITLE: PHOTO SIMULATION

SHEET NUMBER: PS-2