



FIXED WIRELESS NODE ADD

SITE NAME: ANE_11
LOCATION CODE: 432631
PROJECT NUMBER: 20161504101
STRUCTURE TYPE: EXISTING WOODEN POLE

FOR
INFORMATION
ONLY

PRELIMINARY DOCUMENTS

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TYLER B. BOLINGER, P.E.
TEXAS PROFESSIONAL ENGINEER
REGISTRATION NUMBER 120108
RENEWAL DATE MARCH 31, 2017
KGI WIRELESS, INC. TEXAS FIRM NO. F-15692
RENEWAL DATE DECEMBER 31, 2016



KGI WIRELESS, INC.
ENGINEERING
805 LAS CIMAS PKWY
BUILDING THREE, SUITE 370
AUSTIN, TX 78746
512.345.9595

SITE NAME:

ANE_11

LOCATION CODE:

432631

SITE ADDRESS:

NEAR INTERSECTION OF
RIVERSIDE PKWY & FOREST RIDGE DR

THESE DRAWINGS ARE THE PROPERTY OF VERIZON WIRELESS. THEY ARE INTENDED FOR THE EXCLUSIVE USE OF THIS PROJECT ONLY. ANY RE-USE OF THESE PLANS (DRAWINGS) WITHOUT THE EXPRESS WRITTEN CONSENT OF VERIZON WIRELESS IS PROHIBITED.

ISSUED FOR: DATE
ELEV. EXHIBIT REV A 10/17/2016

REVISION

NO	DESCRIPTION	BY	DATE

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T1

PROJECT SUMMARY

LATITUDE: 32.789288° N
LONGITUDE: 97.062321° W

GROUND ELEVATION: ±495' AMSL (NAVD88)

SITE LOCATION: NEAR THE INTERSECTION OF
RIVERSIDE PKWY & FOREST RIDGE DR

CONSTRUCTION TYPE: UNMANNED TELECOMMUNICATIONS

JURISDICTION: CITY OF ARLINGTON

CONTACTS

APPLICANT:
VERIZON WIRELESS
CONTACT: BILL JOHNSON
6696 TRI COUNTY PKWY, SUITE 100
SCHERTZ, TX 78154
PHONE: 210.823.5901
EMAIL: BILL.JOHNSON@VERIZONWIRELESS.COM

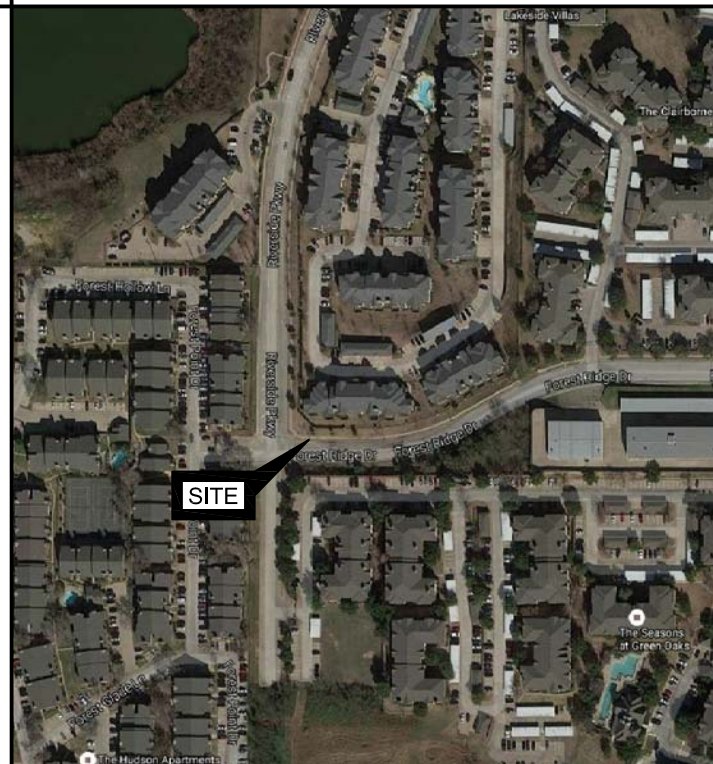
ENGINEER:
KGI WIRELESS, INC.
BUILDING THREE, SUITE 370
805 LAS CIMAS PKWY.
AUSTIN, TX 78746
CONTACT: JACK PHIPPS, P.E.
DIRECTOR OF ENGINEERING
TEXAS REGISTRATION NUMBER 103850
PHONE: 512.334.3255

SITE ACQUISITION:
KGI WIRELESS, INC.
BUILDING THREE, SUITE 370
805 LAS CIMAS PKWY.
AUSTIN, TX 78746

TELCO UTILITY:
TBD

POWER UTILITY:
ONCOR

AERIAL MAP



TEAM SIGN-OFF

LESSOR/LICENSOR DATE

CONSTRUCTION SUPERVISOR DATE

UTILITY PROVIDER DATE

CONSTRUCTION MANAGER DATE

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

DRAWINGS INDEX

GENERAL SHEETS		REVISION
T1	TITLE SHEET	-
SP1	SITE PHOTOS	-
C2	POLE ELEVATION AND ANTENNA PLANS	-
RF1	EQUIPMENT SPECS	-
RF2	EQUIPMENT SPECS	-

NOTE: DRAWING SCALES ARE FOR 11"x17" SHEETS

SCOPE OF WORK

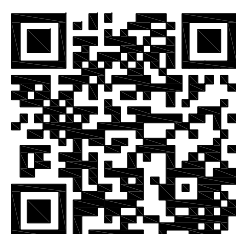
- 1) THE SCOPE OF THIS PROJECT REQUIRES NO CHANGES TO THE POTABLE WATER OR SEWAGE SYSTEMS.
- 2) THE SCOPE OF WORK CONSISTS OF THE FOLLOWING:
 - A. INSTALL PROPOSED SMALL CELL ANTENNAS AND RADIO EQUIPMENT WITH ASSOCIATED ELECTRICAL WORK
 - B. INSTALL ASSOCIATED FIBER COMMUNICATIONS FROM DEMARCATION TO EQUIPMENT

APPLICABLE CODES & STANDARDS

- INTERNATIONAL BUILDING CODE, 2009 EDITION AS ADOPTED BY LOCAL JURISDICTION
- NATIONAL ELECTRICAL CODE, 2008 EDITION AS ADOPTED BY LOCAL JURISDICTION

ENGINEERING SERVICES REPORT CARD

PLEASE SCAN THE QR CODE BELOW, OR FOLLOW THE PROVIDED WEB ADDRESS, TO FILL OUT A QUICK QUESTIONNAIRE REGARDING THE QUALITY AND COMPLETENESS OF THESE DRAWINGS.



HTTP://WWW.KGIWIRELESS.COM/ESREPORTCARD.HTML



Know what's below.
Call before you dig.

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verizon

KGI

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NO	DESCRIPTION	BY	DATE

SHEET TITLE:

SITE PHOTOS

SHEET NUMBER:

SP1

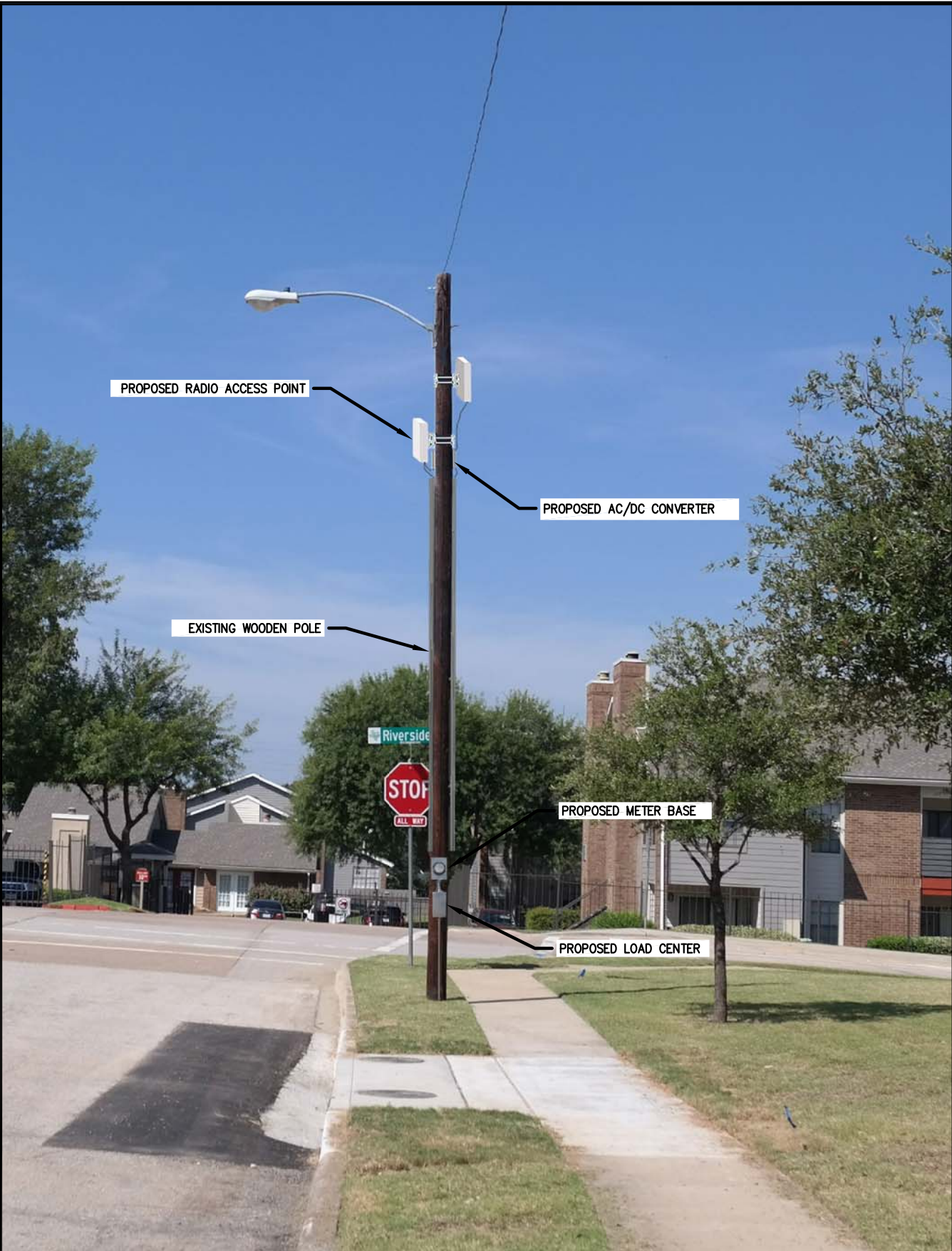


EXISTING WOODEN POLE

1

EXISTING SITE PHOTO

SCALE: N.T.S.



PROPOSED RADIO ACCESS POINT

PROPOSED AC/DC CONVERTER

EXISTING WOODEN POLE

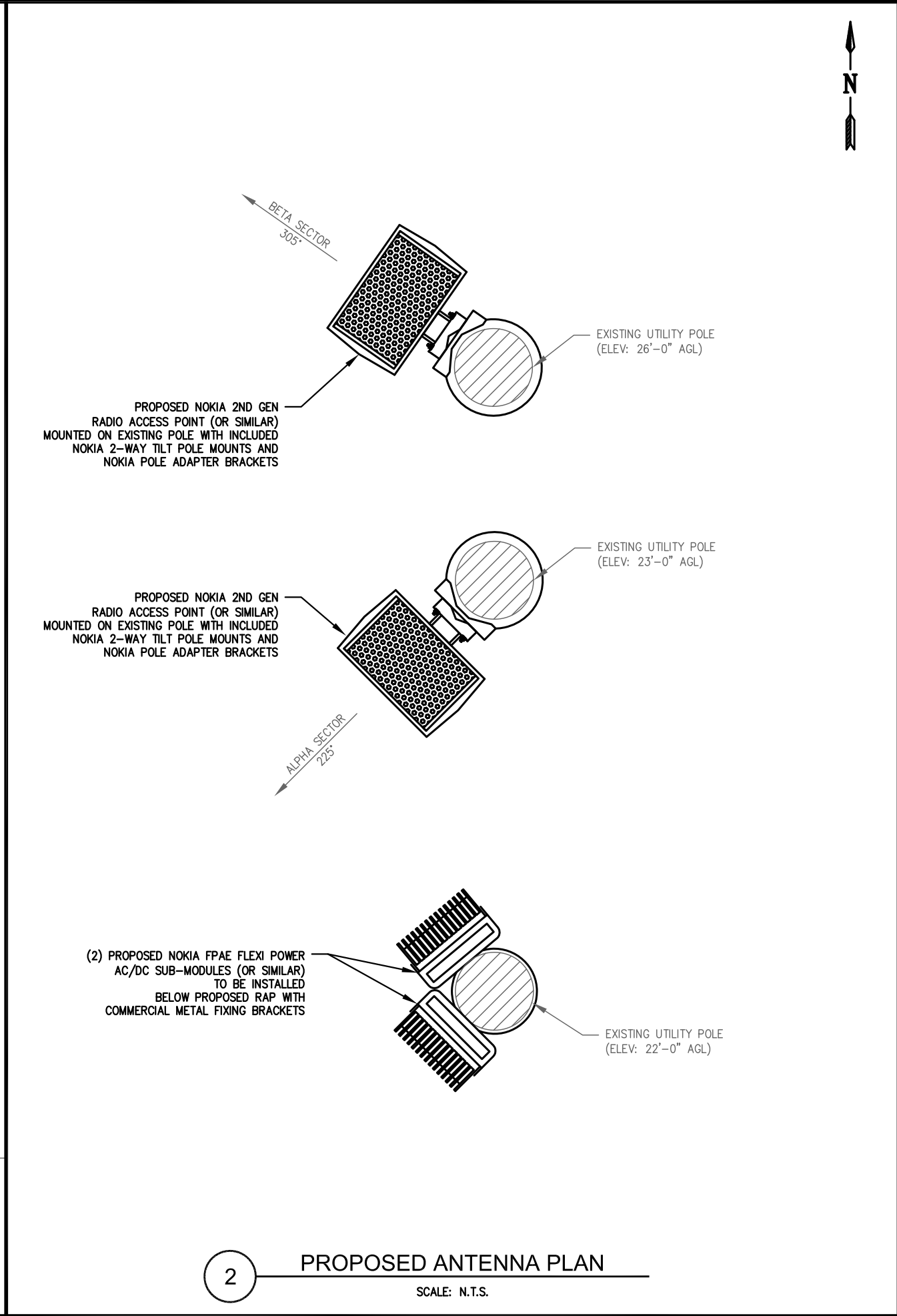
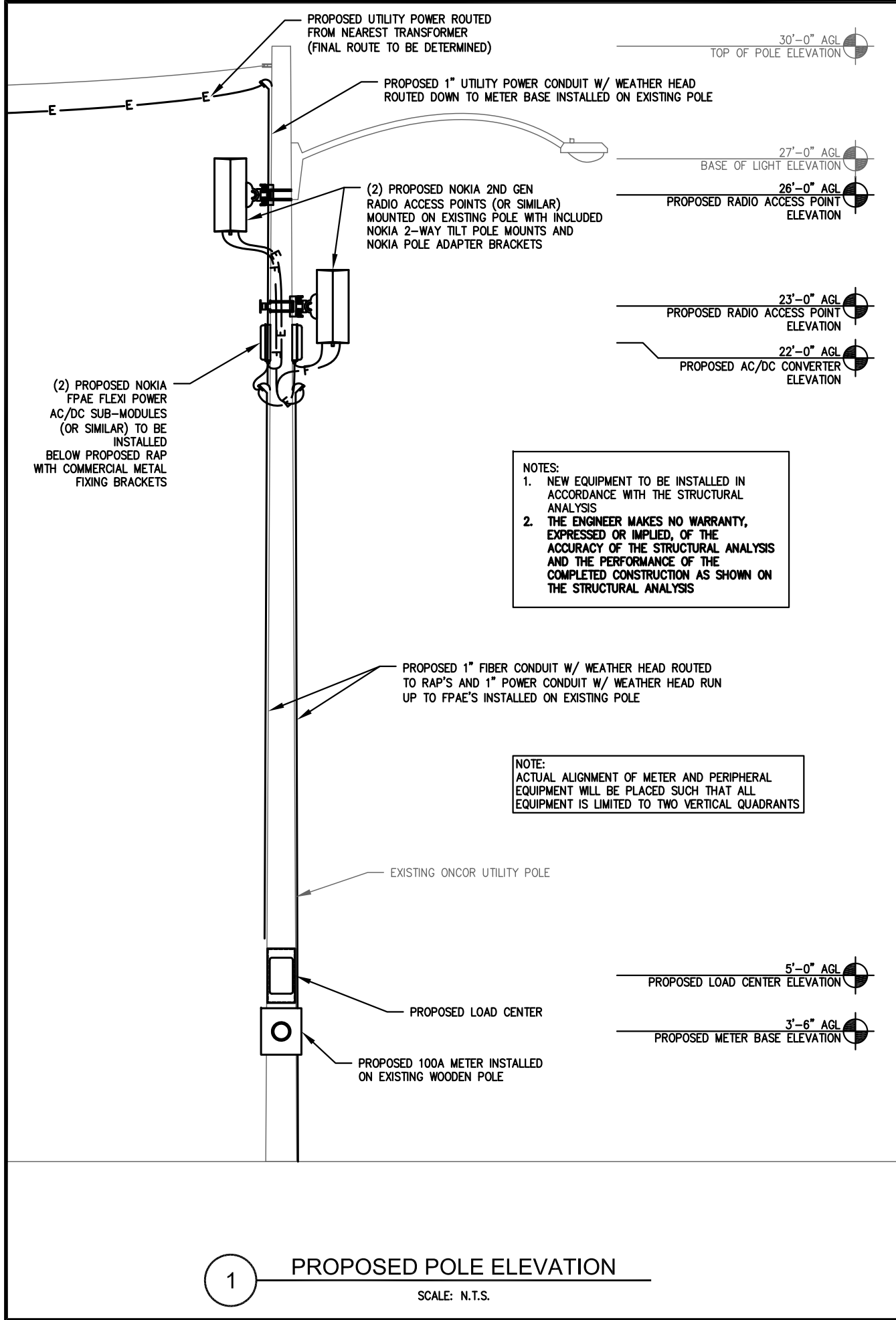
PROPOSED METER BASE

PROPOSED LOAD CENTER

2

PROPOSED EQUIPMENT PHOTO

SCALE: N.T.S.



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SHEET TITLE:

POLE ELEVATION AND ANTENNA PLAN

SHEET NUMBER:

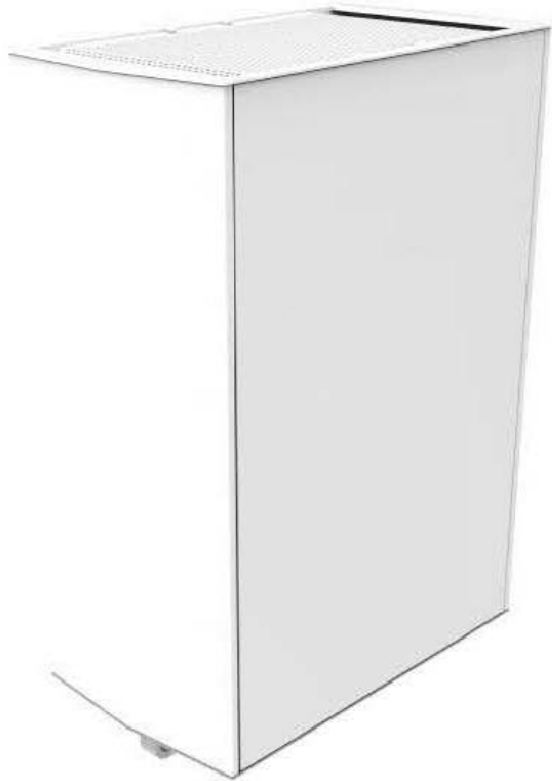
C2

Overview of the unit

Enclosure:
Sheet metal cover
With light grey paint (RAL 7047)

Endcaps machined Aluminum
With light grey paint (RAL 7047)

Plastic Radom
With light grey paint (RAL 7047)



- Main Hardware Features:
- H x W x D: 23.6 x 16.54 x 10.24 in. (600x420x260mm)
 - Weight: ~55 lb (~25kg)
 - Band: 27.0GHz...29.5GHz
 - 4 TRX total (2TRX per sub-sector)
 - Array Size 8x4 per TRX
 - Average Output Power: 21dBm
 - Antenna Gain: ~24dBi
 - Beam Steering support
 - IP54
 - min. beam-width azimuth: 5°...6°
 - min. beam-width elevation: 3°...4°
 - sector width azimuth (-3dB): 60°
 - sector width elevation (-3dB): 14°
 - DC: -48V (optional AC: 110-240V)
 - Power consumption Average: 420W, Peak: 673W



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SHEET TITLE:
EQUIPMENT SPECS

SHEET NUMBER:
RF1

Flexi Power AC/DC Submodule 230V (FPAE) dimensions and weight

Dimensions and weight of Flexi Power AC/DC Submodule 230V (FPAE) 472953A.

Table: Flexi Power AC/DC Submodule 230V (FPAE) dimensions and weight

Property	Value
Height	300 mm (11.8 in.)
Width	190 mm (7.5 in.)
Depth	70 mm (3.1 in.)
Volume	4.4 liters
Weight	4.7 kg (10.3 lb)

Related resources

Parent topic: [Flexi Power AC/DC Submodule 230V \(FPAE\) description](#)

Flexi Power AC/DC Submodule 230V (FPAE) interfaces

External interfaces of Flexi Power AC/DC Submodule 230V (FPAE) 472953A.

Table: Flexi Power AC/DC Submodule 230V (FPAE) interfaces

Connector	Connector type
AC input connector	Screw terminal
DC output	Open ended DC output cable DC cable jacket diameter: 14 mm Wire gauge of individual DC wires: 10 AWG (5.26 mm ²)
On/Stand-by switch	Push-button switch (comes on automatically when AC power supplied to FPAE)

Table: Flexi Power AC/DC Submodule 230V (FPAE) input connector pin configuration

Pin	AC input cable
1	L = Line
2	N = Neutral
3	PE = Protective Earth

Table: Flexi Power AC/DC Submodule 230V (FPAE) DC output cable

Wire	Color
V48RTN (+)	Black
V48N (-)	Blue

Related resources

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RF2