APPLICATION FOR INDIVIDUAL SITE PERMIT (ISP)
FOR SMALL CELL WIRELESS COMMUNICATION FACILITY

CITY OF ELK GROVE
DEPARTMENT OF PUBLIC WORKS
8401 LAGUNA PALMS WAY, ELK GROVE, CA 95758
PHONE (916) 478-2256 ▪ FAX (916) 478-4121
E-mail: epermitsline@elkgrovecity.org

FOR CITY USE ONLY:
ISP #_____
☐PW
☐AR Acct. # _____
☐FINANCE
☐GIS
☐OM
SMUD SN DATE SUBMITTED
_____
PERMIT ISSUED BY: _____
ISSUED Date:

Application Date May 18, 2020

Master License Agreement (MLA) Holder (Applicant) Verizon Wireless Master License Agreement # C-19-761

Applicant Authorized Representative/Project Manager Modus LLC / DeeAnn Jurach Email Djurach@modusllc.com

Telephone # 916-612-3789 Mailing Address 3101 Zinfandel Drive, Suite 320 Rancho Cordova, CA 95670

Proposed Site Locations and Description (Maximum of 5 Locations) [Group Name: Non-MLA 5.1]

Node Site ID/USID (for reporting issues)	Location Coordinates (Latitude / Longitude)	Nearest Address / Location Description	Zoning Designation	SL Pole Number	SL Pole Type (as listed in MLA)	Device Type (i.e. Micro/ Pico /4G/5G)
Laguna_022	38.425978 / -121.417757	9101 Bruceville Road	SC	30727	A	5G
Laguna_037	38.408553 / -121.447604	5538 Elk Grove Blvd.	SC	8000640	A	5G
Laguna_040	38.409152 / -121.418744	7211 Elk Grove Blvd	SC	8000682	A	5G
Laguna_045	38.408913 / -121.406711	8145 Elk Grove Blvd	SC	8002003	LRA	5G
Laguna_094	38.406107 / -121.417788	9680 Bruceville Road	SC	8002070	A	5G

Attachments/Requirements at Application:
☑ $500 ISP Fee – Payable at time of application
☑ Electronic GIS Information and Location Map
☑ Small Cell Equipment Specifications/Cut Sheets
☑ Executed SMUD Consent and Agreement Form on file
☑ SMUD Service Request Form(s)
☑ Power supply calculation(s) and Engineer's Certification(s)
☑ Radiofrequency Report

AGREEMENT

In consideration of the granting of this Permit, the Applicant agrees to the following:

1. All requirements in the Master License Agreement (MLA) have been complied with, specifically:
   - Payment of MLA Fee, as set forth in Exhibit C of the MLA.
   - Surety Bond – Licensee has furnished a Performance Bond ("Surety Bond") in the amount specified in Exhibit C of the MLA and shall maintain such Bond during the Term of the Agreement.
   - Insurance, as set forth in Exhibit D of the MLA- Licensee has provided proof of, and will maintain in full force and effect at all times during the term of the Agreement, policies of insurance. Licensee also certifies compliance with Labor Code Section 3700, as set forth in Exhibit E of the MLA.
2. A Billing Agreement for Small Cell Connections to City Streetlights by and between (SMUD), the City, and the Telecommunications Service Provider has been executed.
3. As a condition of the granting of this permit to comply with all provisions of the Elk Grove Municipal Code, any other associated permit condition, and any related small cell license agreement associated with this Permit. Applicant agrees to defend, indemnify, and hold harmless the City of Elk Grove and each of its elected or appointed officials and employees from any liability and/or responsibility for any accident, loss or damage to persons or property resulting from the Applicant's presence within the City right-of-way or any installation, construction, maintenance, state of use, repair work, on any other matter related to the Permit undertaken by Applicant and/or Applicant's agents, employees or representatives.
4. Comply with all applicable laws in the establishment, maintenance, and/or removal of the small cell wireless facility. No small cell facility shall interfere with the public use and maintenance of the travelled way, shoulder/parking lane, sidewalk/pathway, and/or traffic signal/street lighting.
5. For each small cell wireless facility, obtain electrical service consistent with the Billing Agreement for Small Cell Connections to City Streetlights associated with this Permit.
6. For each small cell wireless facility, satisfy all Permit requirements prior to energizing facility.
7. Conform to all due safety precautions for the protection of persons and property for all engaged in any work authorized by this Permit.

8. Remove or relocate, if directed by the City, any small cell wireless facility placed, changed or renewed under the authority of this permit as provided by the Elk Grove Municipal Code, the related MLA for Small Cell Wireless Communication Facilities, or the Billing Agreement for Small Cell Connections to City Streetlights associated with this Permit.
9. After removing, relocating, or abandonment of a small cell wireless facility, Applicant shall be responsible for the restoration or costs to restore the City facility to the equivalent or better condition than it was prior to the date this Permit became effective, or prior to the date the small cell wireless facility was first placed, whichever is earlier.
10. Applicant shall be financially responsible for the annual fee of facilities placed on City owned structures, all as required by law and/or the related MLA for Small Cell Wireless Communication Facilities associated with this Permit.
11. If a facility is sold, the original Applicant shall remain responsible for all fees unless and until transfer to new permittee is approved by the City.

"I declare under penalty of perjury under the laws of the State of California that the statements made herein are true and correct."

Signed DeeAnn Jurach May 18, 2020

Owner or Authorized Contractor *Date*

5G NR AU (AT1K01) Product Overview

	28GHz
Integrated AU	
Operating frequency	26.5 ~ 29.5GHz
IBW/OBW	850MHz/800MHz
EIRP	60dBm
Antenna Gain	24dBi
Tx/Rx	4T4R
Antenna Elements	1,024
Beam Scan Range	120H / 40V
Size/Weight	9.57 x 16.81 x 6.89 in (<18.16L) / <15.8Kg (33.07lbs) *
Input Power	-48VDC / 100 ~ 240VAC
Power Consumption	AC Version: 416W, DC Version: 402W (Load 100%, Temp. 55℃, TDD Ratio 4:1)
Midhaul (gNB-CU Interface)	10G Optic x 2 ports
Installation	Outdoor Pole/Wall Mount
Clock Synchronization	GPS and IEEE 1588v2
Operating Temperature	-40 deg C to +55 deg C with solar load
Cooling	Natural Convection

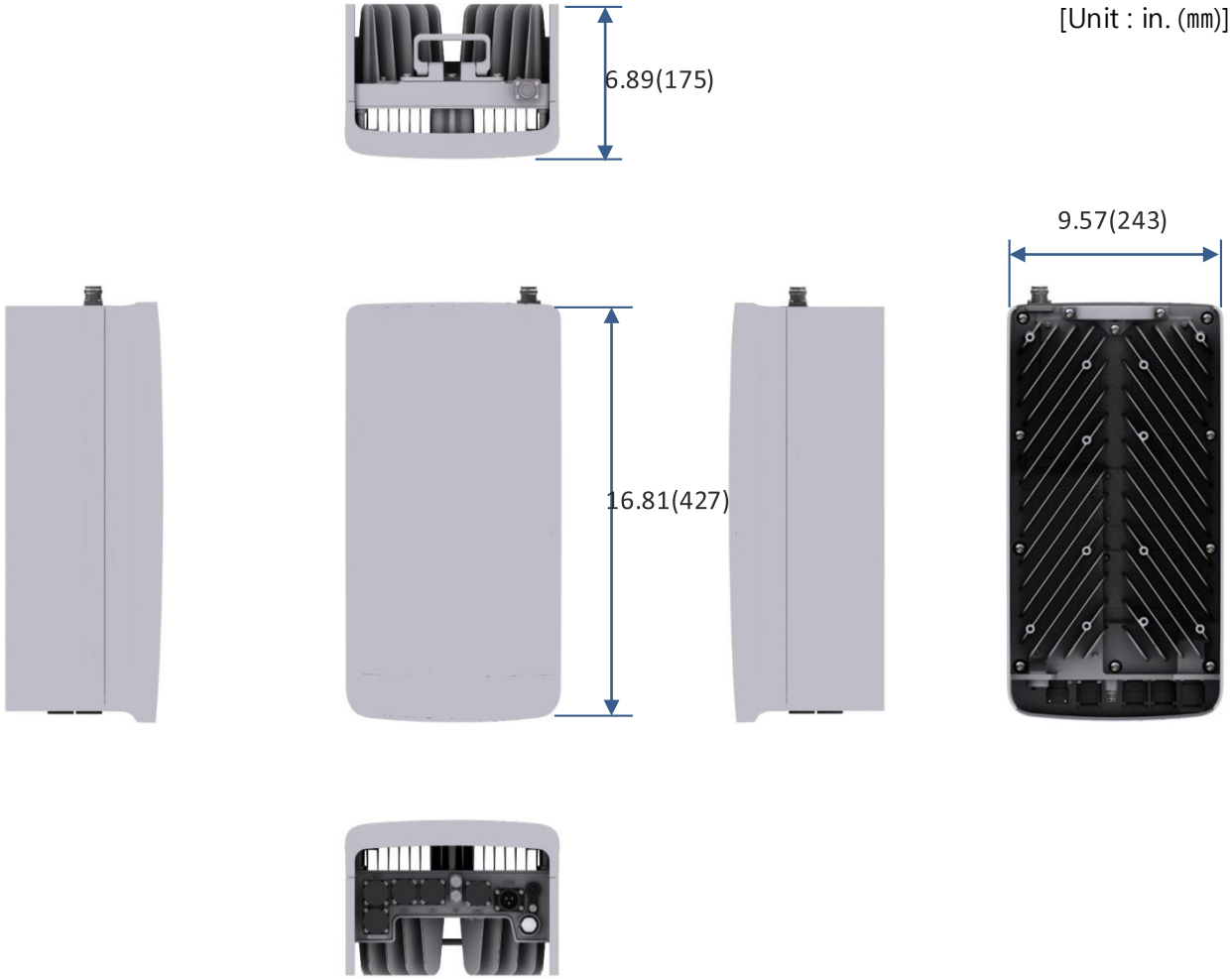
* Without Cover & GPS Port

5G NR AU (AT1K01) Product Specifications

Item	AT1K01
Technology	5G NR
Operating Frequency	27.5 to 28.35 GHz
RF Chain	1024 TR/unit
Antenna Array	
Configuration	1024 AE (4T4R)
Element	256 AE (16H16V)/path, 1024 AE/unit
Gain	28 dBi/path
IBW/OBW	850/800 MHz
Channel Bandwidth/Capacity	100 MHz
Max 8CC (50/200/400 MHz will be supported in ES2, SVR19A: 100 MHz)	
RF Output Power	EIRP 54dBM/path , 60dBm/unit
Input Voltage	-48 V DC (-36 to -58 V DC) or 100 to 240 V AC
Input Current	8.4 A @ -48 V DC
	4.3 A @ 100 to 240 V AC
LED	Total: 1 EA
	Powered, Operational, Fail (3 Status w/different colors)
Operational Temperature	-40~55°C (with solar load)
Humidity	TBD
IP rating	IP65
EMC	FCC Title 47 CFR Part 15 Subpart B
Safety	UL 60950 or 62368
Installation	Pole/Wall/Tower mounting
Dimension (W × D × H)	· 9.57 in. (243 mm) × 6.89 in. (175 mm) × 16.81 in. (427 mm) •(@without cover)
	· 9.57 in. (243 mm) × 6.89 in. (175 mm) × 19.4 in. (493 mm) (@with cover & GPS Port)
Volume	< 18.16 L
Weight	< 33.07 lb. (15.8 kg)

Appearance

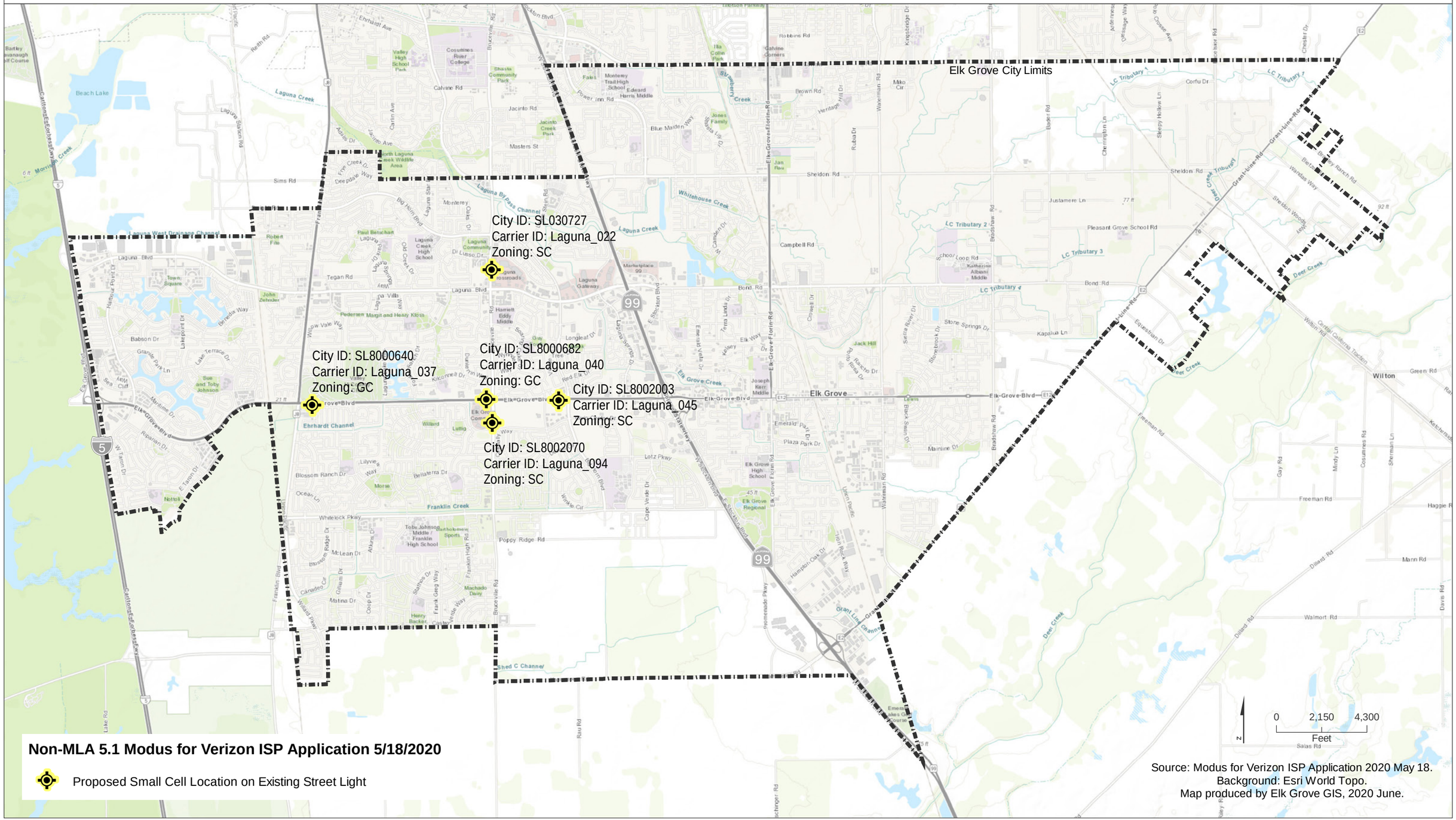
[Unit : in. (㎜)]



5.1 - MODUS for Verizon - ISP for Small Cell Wireless

Proposed Site Locations

DRAFT



Non-MLA 5.1 Modus for Verizon ISP Application 5/18/2020

Proposed Small Cell Location on Existing Street Light

Source: Modus for Verizon ISP Application 2020 May 18.
Background: Esri World Topo.
Map produced by Elk Grove GIS, 2020 June.