



# CIOSI – Monopoles

Follow-up to 11/23/2021 Workshop

February 22, 2022 Council Workshop





# Background

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- August 24, 2021 Work Study Session (WSS) – Council Item of Special Interest (CIOSI) requested by Councilmember Tolmachoff
- November 23, 2021 WSS – Report to Council



# Direction

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- Provide relevant cellular system information
- Provide background of city's jurisdictional authority
- Provide site specific information for Monopole installations on city property



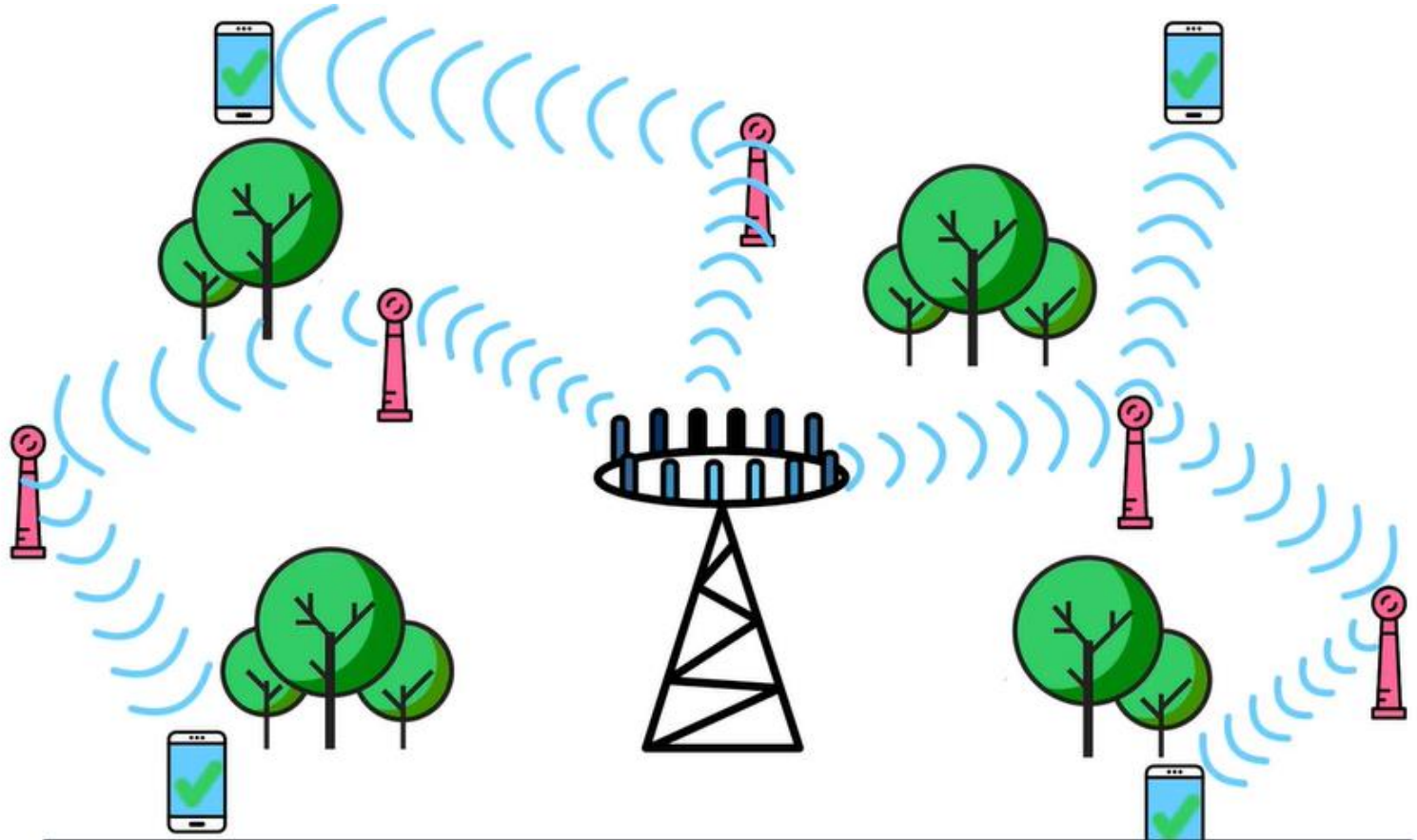
# How wireless technology works

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- Well, there are wires, “Fiber Optics”
- Fiber “Backhauls” data so it can be processed and used
- Large Cell Towers and now “Small Cell Towers” serve as both the receiving and delivery points for data that serves our smart devices



# Cellular needs line of site





# The Marketplace



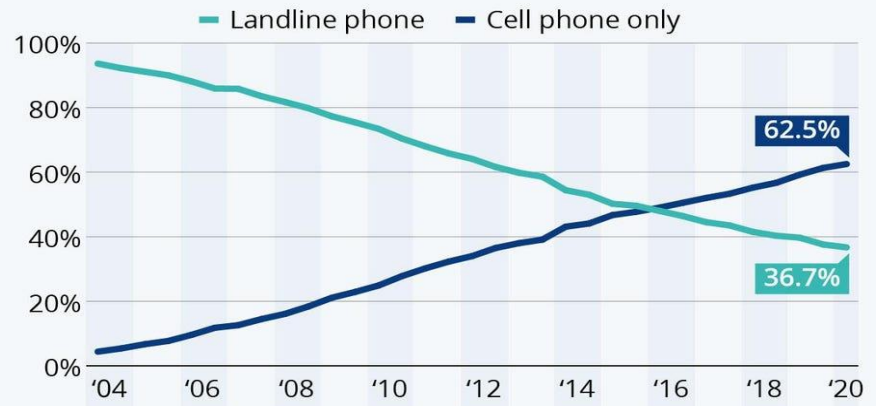


# Technology Trends

- Landlines by 2025 will be nearing obsolete
- Analog technology that powers landlines is being phased out to Voice over Internet Protocol (VoIP) and cellular.

## Landline Phones Are a Dying Breed

% of U.S. adults living in households with/without a working landline telephone\*



\* based on the CDC's biannual National Health Interview Survey of 15,000+ U.S. households

Source: CDC



statista



# Regulatory Authority

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- Cellular technology is regulated commercially by the FCC
- States have some authority to regulate: ARS Title 9
- Cities have limited authority to regulate ROW & PUE; Aesthetic, Setback, Clearance. Reasonable and customary is the standard.
- Cities have more authority to regulate on “City Property”
- Use of the ROW and PUE – Glendale Municipal Code (GMC) Chapter 10
- Zoning – GMC Article 7.600



# Regulatory Authority

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- The city does not have the authority to deny access, we can require reasonable accommodations in alignment and aesthetics.
- The city does not have to allow carriers to attach to city light poles, however, the carrier is allowed to install their own pole.
- No jurisdiction may consider the environmental effects of RF's if the installation meets the FCC regulations. (Telecommunications Act of 1996 – Section 704)



# Regulatory Authority - Health & Safety

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- Federal Communications Commission (FCC) regulates the Telecom industry; other Federal agencies monitor, research or regulate issues related to human exposure to RF radiation.
  - Food and Drug Administration (FDA)
  - Environmental Protection Agency (EPA)
  - Occupational Safety and Health Administration (OSHA)
  - National Institute for Occupational Safety and Health (NIOSH)
  - National Telecommunications and Information Administration (NTIA)
  - Department of Defense (DOD)



# Regional Wireless Cooperative Network

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- Members

- Glendale, Avondale, Goodyear, Peoria, Phoenix, Sun City Fire District, Sun City West Fire District, Guadalupe, Maricopa, El Mirage, Tempe, Chandler, Surprise and the Daisy Mtn Fire District

- Agreement

- Using their best efforts, through cooperation and pooling of common resources, for the mutual benefit of all Parties, to use, own, operate, maintain and improve a regional radio communications network.



# Monopoles - by the numbers

## Cell Towers within the City of Glendale Private Cell Sites



GIS

### Large Cell Sites

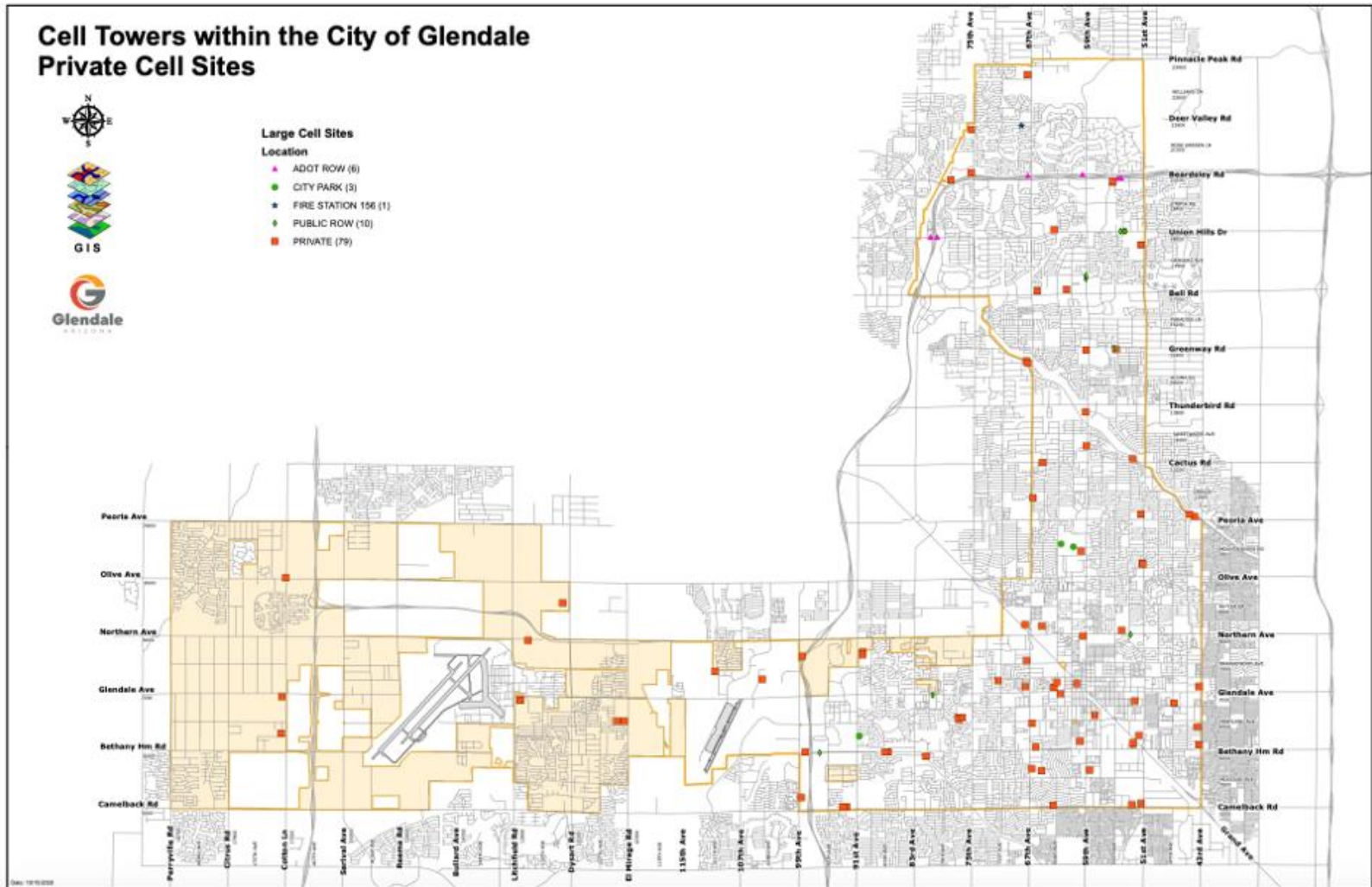
#### Location

- ▲ ADOT ROW (6)
- CITY PARK (3)
- ★ FIRE STATION 156 (1)
- ◆ PUBLIC ROW (10)
- PRIVATE (79)





# Cellular Monopoles in Glendale





# City Property - Pyramid Peak WTP



Installed	Owner	Term	End of Term(s)	Current Annual Revenue
2018	Glendale, Avondale, Goodyear, Peoria, Phoenix, Sun City Fire District, Sun City West Fire District, Guadalupe, Maricopa, El Mirage, Tempe, Chandler, Surprise and the Daisy Mtn Fire District	10 year & 3/5yr extensions	2028	\$40,000



# City Property – Pyramid Peak WTP



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2015	Verizon	10 year & 3/5yr extensions	2025	\$43,212 3% escalator



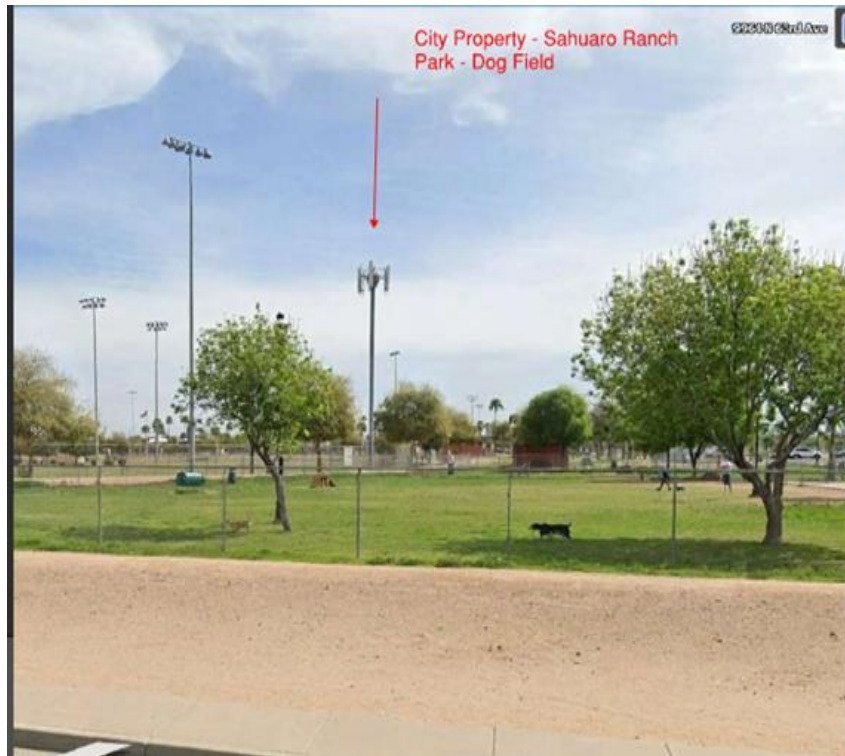
# City Property – FS 156



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2013	T-Mobile	5 year & 5/5yr extensions	2023	\$52,303 3% escalator



# City Property – Sahuaro Ranch



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2017	T-Mobile	5 year & 4/5yr extensions	2027	\$40,732 3% escalator



# Small Cells- by the numbers

## Cell Towers within the City of Glendale Public / Private



GIS



### Cell Sites

-  PUBLIC ROW (196)
-  CITY LAND (5)
-  PRIVATE (94)
-  ADOT ROW (7)

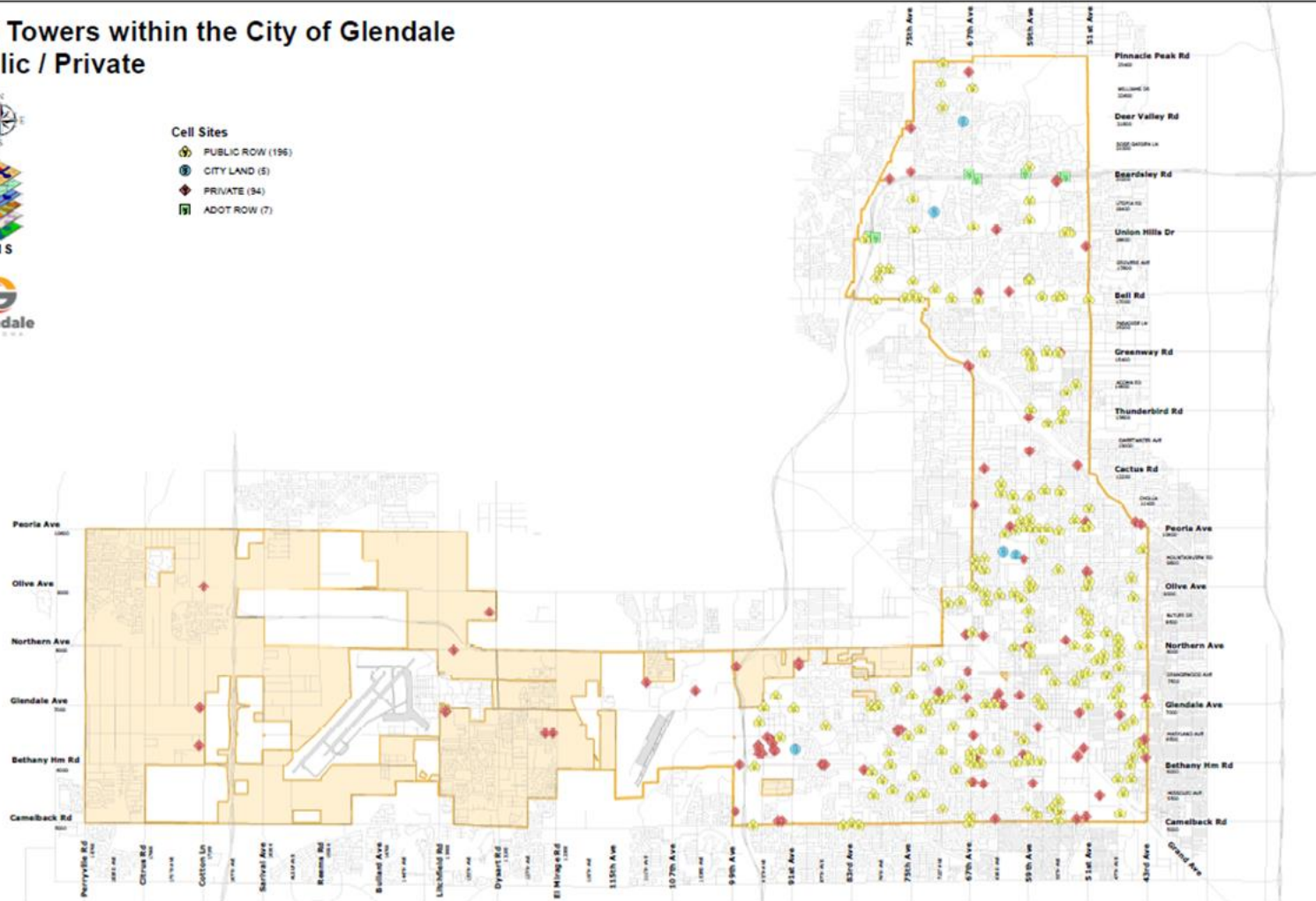


# Small Cell Poles

## Cell Towers within the City of Glendale Public / Private



- Cell Sites**
- PUBLIC ROW (196)
  - CITY LAND (5)
  - PRIVATE (34)
  - ADOT ROW (7)



Date: 10/14/2023



# Recommendations

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- Regulatory

- Continue with all agreements as consummated
- Support Pre-notification consistent with work in the ROW permitting practices

- Legislative

- Support our legislative goals of strengthening local determination
- Encourage the Federal government to evaluate and update their scientific / public health and safety guidelines



# Attachments

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# City Property-ROW – 53<sup>rd</sup> & Union Hills



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2015	Verizon	5 year & 4/5yr extensions	2025	\$17,980 3% escalator



# City Property ROW – 17260 N. 59<sup>th</sup> Ave



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2013	T-Mobile	5year & 4 - 5yr extensions	2023	\$19,647 3% escalator



# City Property ROW – 17260 N. 59<sup>th</sup> Ave



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2013	Sprint	5 year & 4 - 5yr extensions	2023	\$23,577 3% escalator

# City Property ROW 91<sup>st</sup> Ave & Rose Lane



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2008	Verizon	5 year & 4 - 5yr extensions	2023	\$42,819 5% escalator



# City Property ROW – 81<sup>st</sup> Ave & Glendale



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2013	AT&T	5 year & 4 - 5yr extensions	2023	\$19,647 3% escalator



# City Property ROW 53<sup>rd</sup> Ave & Northern



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2012	T Mobile	5 year & 4 - 5yr extensions	2022	\$20,237 3% escalator



# Private Property- 54<sup>th</sup> Ave Northern





# City Property - Sahuaro Ranch Park



Installed	Owner	Term	End of Current Term	Current Annual Revenue
1998	Verizon	10 year & 2 Automatic 10yr extensions	2027	\$56,142 CPI escalator



# City Property -ROW – 55<sup>th</sup> & Greenway



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2013	AT&T	10 year & 4/5yr extensions	2023	\$19,647 3% escalator



# City Property ROW – 17260 N. 59<sup>th</sup> Ave



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2013	T-Mobile	5 year & 4 - 5yr extensions	2023	\$19,647 3% escalator



# City Property- ROW 54<sup>th</sup> & Union Hills



Installed	Owner	Term	End of Current Term	Current Annual Revenue
2013	AT & T	5 year & 4 - 5yr extensions	2023	\$19,647 3% escalator



# Revenue Summary

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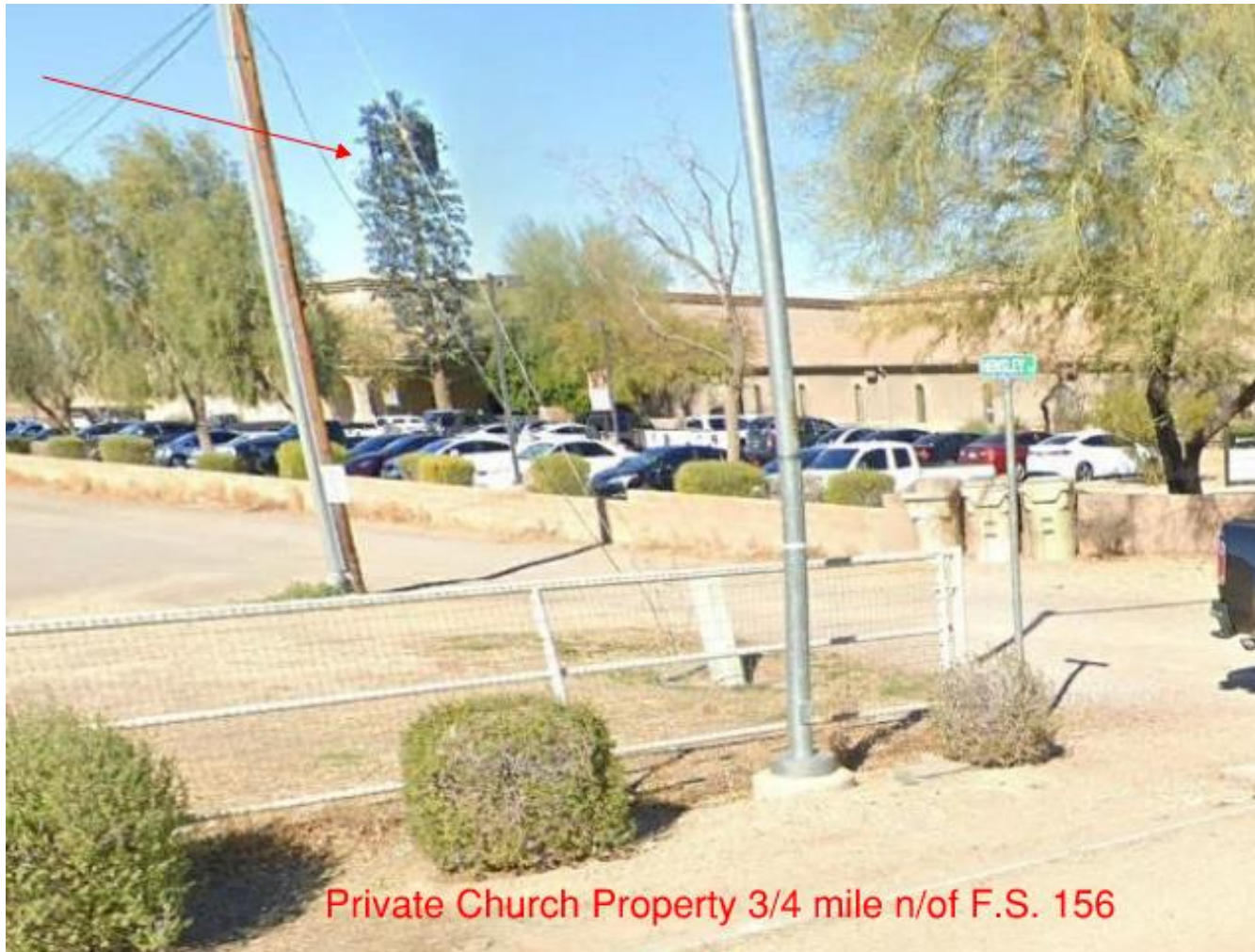
- Four international providers represented in Glendale
- Age of installations ranges from 1998 – 2021
- Average terms are typically multiple 5-year agreements
- Most have an annual escalator OF 3%
- Total Annual Revenue =\$435,827

# Private Property-59<sup>th</sup> Avenue (FS 157)





# Private Property- 67<sup>th</sup> Ave



Private Church Property 3/4 mile n/of F.S. 156