



**WELCOME**

**CPS Energy  
Quarterly Pole Attachment  
Workshop**

**October 2, 2020**

Confidential Information Property of CPS Energy

# Safety

- **5 Ways To Reduce Stress Working From Home And Self-Isolation**
  - Step away from what your doing
  - Move around
  - Change your surroundings
  - Call a friend
  - Be compassionate with yourself



Living the dream

# Agenda



- **General Topics**
  - Pole Attachment Services Website Updates
  - Approved PAS contractors update
  - GIS Training Updates
  - Pole Attachment Standards Update
  - Annual Pole Attachment Invoices
  - GIS Web Link
  - Web Portal Link
- **Work Manager**
  - New Work Manager Update
  - Designer Responsibilities
- **Wireline Attachments**
  - Communication Make Ready
  - Temporary Attachment Form
- **Wireless Attachments**
  - GIS Design Examples
  - Downtown Decorative Streetlight Update
  - Residential Streetlight Update
- **Questions**

# GENERAL TOPICS

# Pole Attachment Services Website Updates



- Pole Attachment Services approved contractors for processing applications – Effective November 1, 2020
- Pole Attachment Unit Pricing – Effective November 1, 2020
- Future Quarterly Meetings
- Update previous meeting workshops presentations

## Pole Attachment Services

### CPS Energy Pole Attachment Program

CPS Energy's distribution system can facilitate the delivery of the variety of communication services offered today. With a streamlined pole attachment process, we're dedicated to partnering with companies to assist with speed-to-market processes for future technologies.

CPS Energy's Pole Attachment Services Office is the single point of contact for all who wish to attach infrastructure to our distribution poles.

The Pole Attachment Services Office is responsible for:

- Registration
- Attachment agreements
- Applications for new pole attachments or removals
- Surveys of existing attachments
- Billing and collections for all the above services

For questions or more information on the pole attachment process, [SEND US AN EMAIL](#).

CPS Energy has released the revised Pole Attachment Standards Version 4.0 (the "Standards") today, April 1, 2019, which include the integration of more detailed procedures for strand-mounted 140-200m installations (MFR Access Points). CPS Energy continues to work with stakeholders to ensure the adoption of best practices in the Standards to further streamline our processes and operations for the benefit of all attaching entities.

Version 4.0 of the Standards become effective November 15 2019. The revised Standards will be posted on the Pole Attachment Services page on CPS Energy's public website ([www.cpsenergy.com/poleattachments](http://www.cpsenergy.com/poleattachments)).

Thank you for your consideration and patience.

### Subscribe to receive email updates:

If you would like to receive emails regarding CPS Energy's Pole Attachment Program, please click on the button below to register your contact information.

[Register Contact Info Here](#)

### Future Meetings/Workshops

- TBD

[Map of Meetings/Workshops](#)

### Previous Meetings/Workshops

- Quarterly Pole Attachment Workshop: Aug 15 2019
- Quarterly Pole Attachment Workshop: May 9 2019
- Quarterly Pole Attachment Workshop: Feb 7 2019
- Quarterly Pole Attachment Workshop: Nov 8 2018
- Quarterly Pole Attachment Workshop: Jul 26 2018
- Quarterly Pole Attachment Workshop: May 10 2018
- Quarterly Pole Attachment Workshop: Jan 25 2018
- Quarterly Pole Attachment Workshop: Nov 15 2017
- Quarterly Pole Attachment Workshop: May 11 2017
- Quarterly Pole Attachment Workshop: Aug 15 2017
- Quarterly Pole Attachment Workshop: Feb 16 2017
- EUCI Pole Attachment CPSE Case Study: Jan 2017

### Pole Attachment Standards

- Pole Attachment Standards - V4 - Effective Apr 1 2019
- CPS Energy Response to Comments - Pole Attachment Standards
- Pole Attachment Standards - V3 - Effective Jan 1 2018
- CPSE Pole Attachment Standards-V2-Effective Jan 1 2017
- CPS Energy FCC Rate Calculation Support Jan 2019 (Revised 1-7-2020)
- CPS Energy FCC Rate Calculation Support Jan 2018
- Pole Attachment Unit Pricing - Effective Jan 1 2017

### Pro Forma Agreements

- Standard Pole Attachment Agreement (Pro-Forma) Revised July 2016
- Wireless Addendum Final Revised Dec 2016
- Wireless Installation Agreement Final Revised Dec 2016
- Infrastructure Provider Sublicensee Wireless Installation Agreement Final Version Dec 2016

### Helpful Links

- Certificate of Authority (City of San Antonio)
- NJUNS
- Approved Contractors
- Pole Inspection Guidelines

Special software is required to open PLA Client File links.

### Forms

- A1 Registration and Annual Reporting Form
- B1 Standard Pole Attachment Application
- B2 Standard Wireless Installation Application
- B3 Banner Attachment Application
- B4 Request for Pre-Certification of Wireless System
- B5 Request for Waiver of Applicable Engineering Standards
- B7 Request for Temporary Attachment
- B8 Completion of Attaching Entity Construction
- B14 Pole Attachment Standards Revision Request (PASRR)
- B19 Pole Attachment Standards Revision Request (PASRR) Form
- B22 Notification of Micro Network Node



# Approved Pole Attachment Contractors



- CPS Energy is currently at capacity for approved engineering companies
- Engineering companies seeking approval will be placed on a waiting list
- Quarterly reviews of companies will be done to remove any companies not submitting pole attachment applications for any attaching entity
- Companies removed will have to resubmit along with the letter from their attaching entity stating they will be doing work for them



Engineering	
1. Aeparmia Engineering	★★★
2. Amdocs	★
3. ArchComm, LLC	★
4. C&D Utility Consulting, LLC	★★★★
5. Cobb Fendley	★★★
6. Davey Resource Group, Inc.	★★★★
7. DeBauche Comm. & Cons. Serv., LLC	★★★★
8. Fullerton	★★★
9. LandDev Consulting, LLC	★★★★
10. LJA Engineering	★★★
11. Nexius Solutions, Inc.	★★★
12. PhaseLink Utility Solutions	★★★★
13. Precision Design & Drafting Inc.	★★★★
14. Quanta Utility Engineering Services	★★★★
15. Telecom Staffing, LLC	★★★★
16. TDC2, LLC	★
17. Texas Utility Engineering, Inc.	★★★★
18. TRC, Inc.	★★★★
19. TrueNet Communications	★
20. Teo Engineering Organization LLC	★
21. Jacobs Telecommunications, Inc	★
22. Rocky Mountain West Telecomm	★

★ Option 1: Pole Loading Analysis (PLA) & Application submittal

★★ Option 2: Make ready engineering

★★★ Option 3: Pole Loading Analysis (PLA), Application submittal & Make ready engineering

# Pole Attachment Services -Electrical Make Ready Training Classes

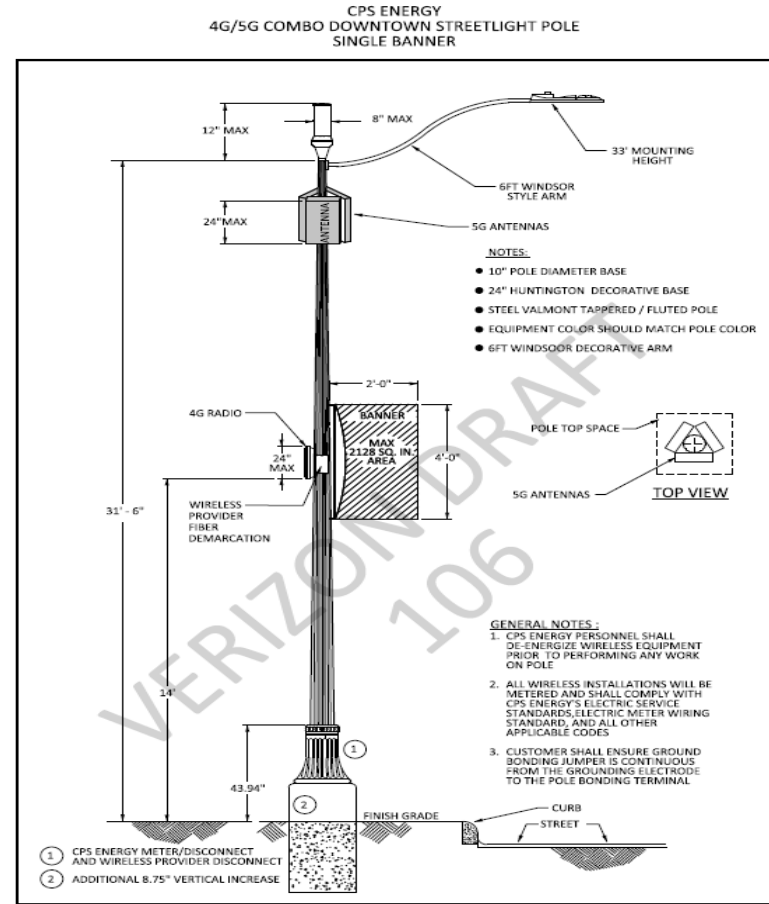
- **CPS held 2 virtual trainings with 3 contractors in each class in May and July 2020**
- **Future Proposed Trainings – February 2021**
  - **Virtual vs in person?**
  - **Duration: 5 days – Mon - Fri**
  - **Location – 4514 Frank Bryant**
- **For more information please email [poleattach@cpsenergy.com](mailto:poleattach@cpsenergy.com)**



# Pole Attachment Standards V5.0 Updates



- Pole Attachment Services continues to work diligently with stakeholders to ensure the Pole Attachment Standards improve operations for all attaching entities
- Pole Attachment Services is working on releasing the Pole Attachment Standards V5.0 for comments on November 1, 2020
- Pole Attachment Standards V5.0 will include the downtown underground fed streetlight and the residential underground fed streetlight





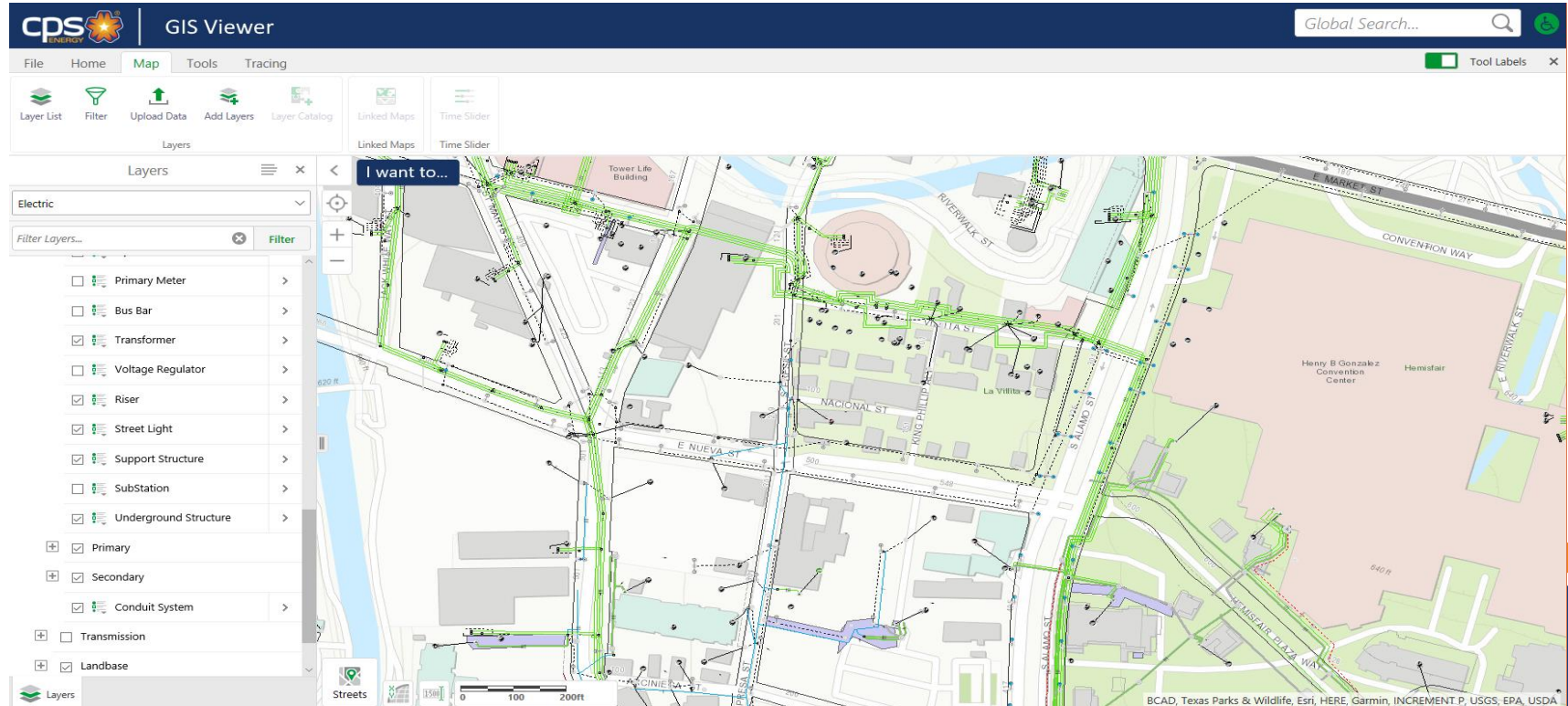
# Annual Pole Attachment Invoice

- **CPS Energy mailed the annual pole attachment 2020 invoice to all attaching entity having permitted Wireline, Wireless and Banner Attachments in June 2020**
- **Credits for payments made to the 2018 and 2019 invoices were applied to the 2020 annual pole attachment invoice due to the pole count input to the FCC formula which was based on the results of the pole inventory conducted by Davey Resource Group**
- **2018 and 2019 pole count were adjusted accordingly and both rates were recalculated using the adjusted pole counts**



# Internal GIS Web Link

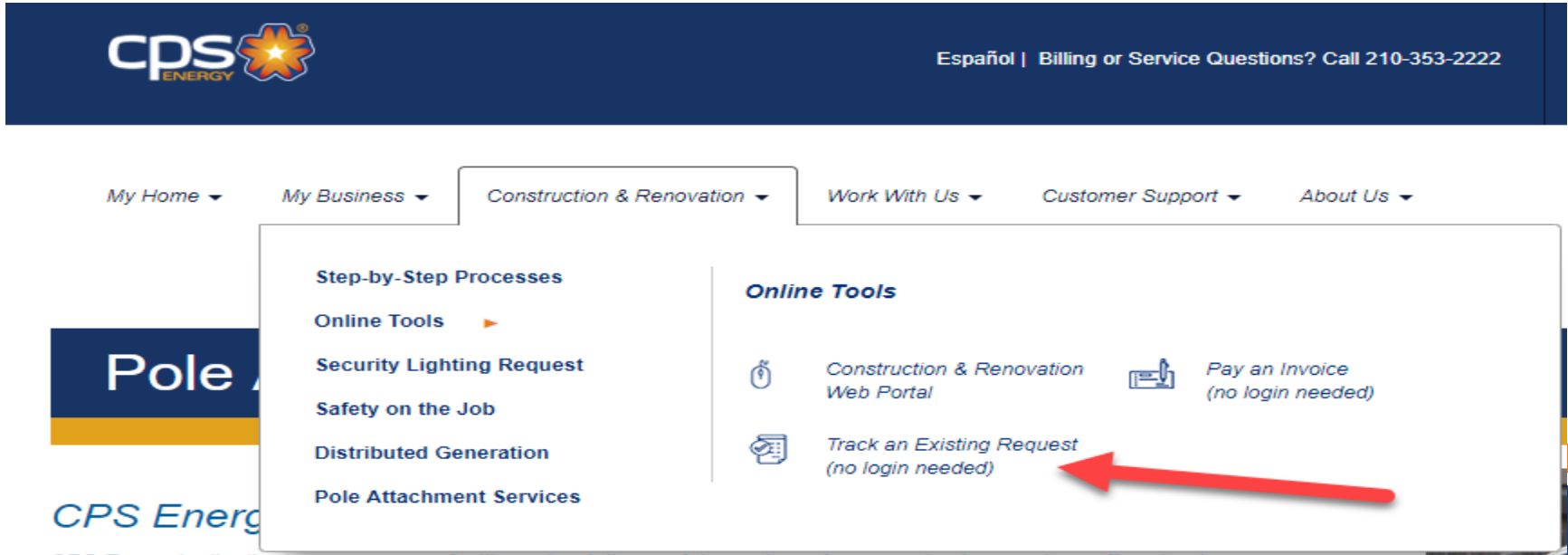
<https://gisweb.cpsenergy.com/Web/index.html?viewer=GISViewer>



The screenshot displays the CPS Energy GIS Viewer interface. The top navigation bar includes 'File', 'Home', 'Map', 'Tools', and 'Tracing' menus, along with a 'Global Search...' field. The main toolbar contains icons for 'Layer List', 'Filter', 'Upload Data', 'Add Layers', 'Layer Catalog', 'Linked Maps', and 'Time Slider'. The 'Layers' panel on the left is titled 'Electric' and lists various infrastructure components with checkboxes: Primary Meter, Bus Bar, Transformer, Voltage Regulator, Riser, Street Light, Support Structure, SubStation, Underground Structure, Primary, Secondary, Conduit System, Transmission, and Landbase. The map shows a network of green lines representing electrical infrastructure overlaid on a street map. Labels on the map include 'Tower Life Building', 'RIVERWALK ST', 'CONVENTION WAY', 'Henty B Gonzalez Convention Center', 'HemisFair', 'NACIONAL ST', 'E NUEVA ST', 'S ALVARO ST', 'KING PHILIP ST', 'S ALVARO ST', 'E RIVERWALK ST', 'MISAPAL PLAZA WAY', and 'CINIEVA'. A scale bar at the bottom indicates 0, 100, and 200 feet. The bottom right corner of the map area contains the text: 'BCAD, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT.P, USGS, EPA, USDA'.

# New Link For Web-Portal

<https://secure.cpsenergy.com/ceworkstatus/>



The screenshot shows the CPS Energy website navigation menu. The 'Construction & Renovation' dropdown menu is open, displaying two columns of options. The 'Online Tools' section is highlighted with a red arrow pointing to the 'Track an Existing Request (no login needed)' link.




**Navigation Menu:**

- My Home ▾
- My Business ▾
- Construction & Renovation ▾
- Work With Us ▾
- Customer Support ▾
- About Us ▾

**Construction & Renovation Dropdown:**

- Step-by-Step Processes
- Online Tools ▶
- Security Lighting Request
- Safety on the Job
- Distributed Generation
- Pole Attachment Services

**Online Tools Section:**

-  Construction & Renovation Web Portal
-  Pay an Invoice (no login needed)
-  Track an Existing Request (no login needed) ←

# Application Submittals/Post Inspections

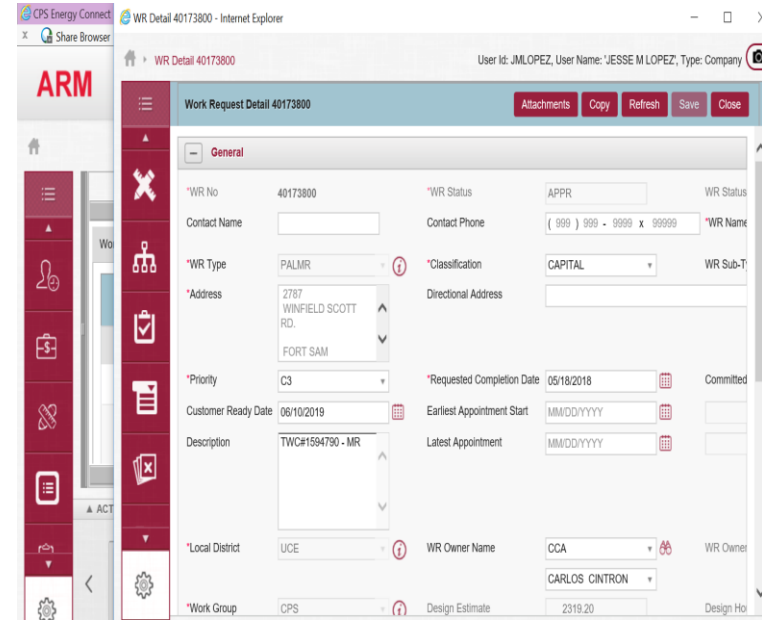
- **Wireless applications must reflect ALL (existing and proposed) the attachments location heights to verify proper clearance are met.**
- **A rejection at any point in the application pre-construction (Field/PLA/GIS) process is a full rejection of the entire application**
  - **QUES/TRC have been understanding due to new design companies and new pole attachment processes**
  - **A REV# submittal will be required whenever application markups are required**
  - **Will restart the 21 or 30 day application timelines**
  - **CPS will not be penalized for missing timelines due to assisting attachers correct applications**
- **Notice of new attachment completion must be submitted within 90 days in order for CPS Energy to do the post inspection and issue the pole attachment permit**

# WORK MANAGER

# Work Manager System Upgrade



- **Work Manager System Upgrade was completed in July 2020**
- **CSI Team has two demonstrations of some general use & navigational functions within ARM 2.2**
- **General Navigation Basics:** [Navigation: Basics WebEx](#)
- **General Navigation Views and Tasks:** [General Navigation: Views and Tasks WebEx](#)
- **All contractors with a CPS Energy email address has received these links**
- **Work Manager task structure has not changed, only the user interface**



# Designer responsibility

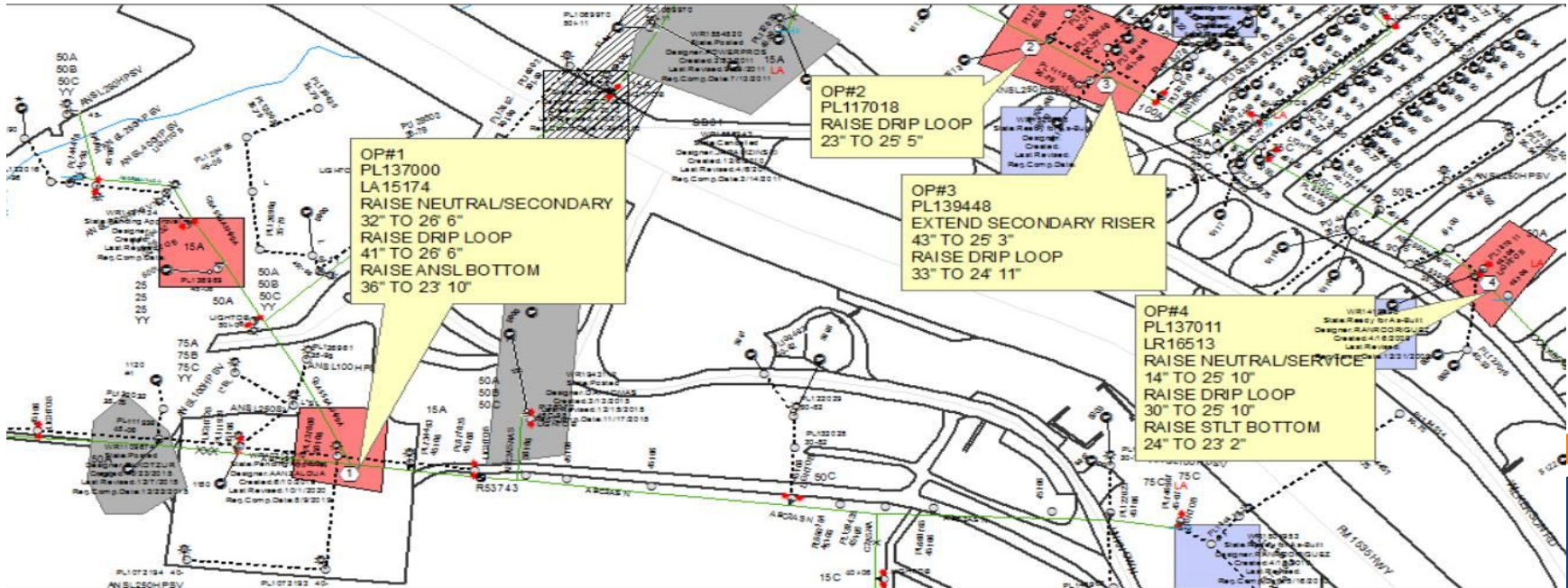
- **The Designer (design company) is the owner of the Work Order and GIS Design from creation through AsBuilts**
  - Make sure designer initials are on Work Request owner to ensure automatic emails get sent to the designer as tasks get completed



WR No:	<input type="text" value="40358525"/>	WR Type:	<input type="text" value="PALMR"/>
WR Name:	<input type="text" value=""/>		
Owner:	<input type="text" value="NK2"/>	<input type="text" value="KYLE NEALON"/>	

# GIS Design Polygon example

- The Designer must check for any other work order polygons in GIS to ensure no other jobs are replacing the pole or poles your customer is proposing to attach too.





# WIRELINING ATTACHMENTS

# Communication Make Ready

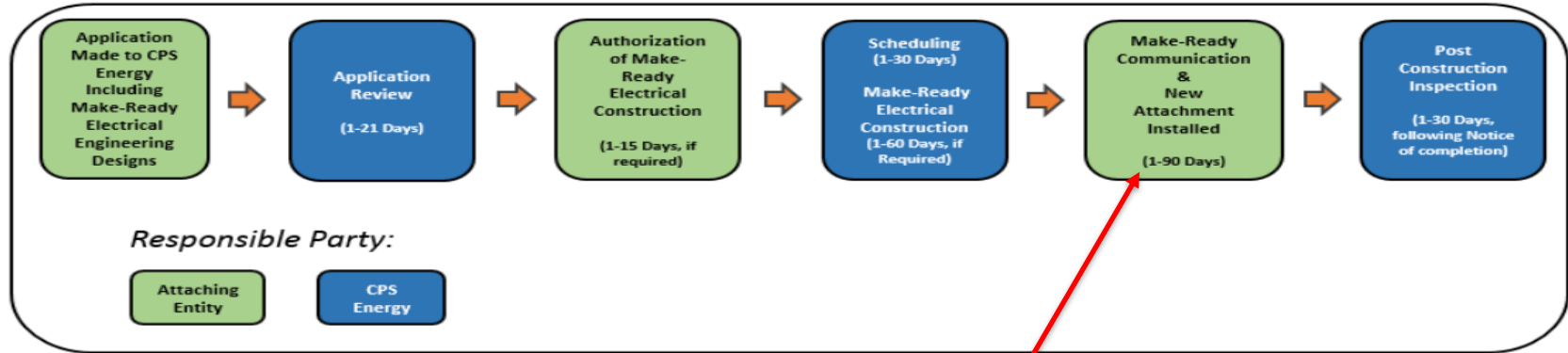


Figure B: Competitive Provider – Standard Process for Wire Attachments

- **Note: Even though a Notice to Proceed (NTP) has been issued to the attaching entity, ALL communication make-ready must be completed prior to attaching the new pole attachment (wireline or wireless)**
- **Attaching entities be in favor of CPS Energy having a one-touch contractor to do all simple transfers?**

# Temporary Attachment Form (B7) & Waiver Request

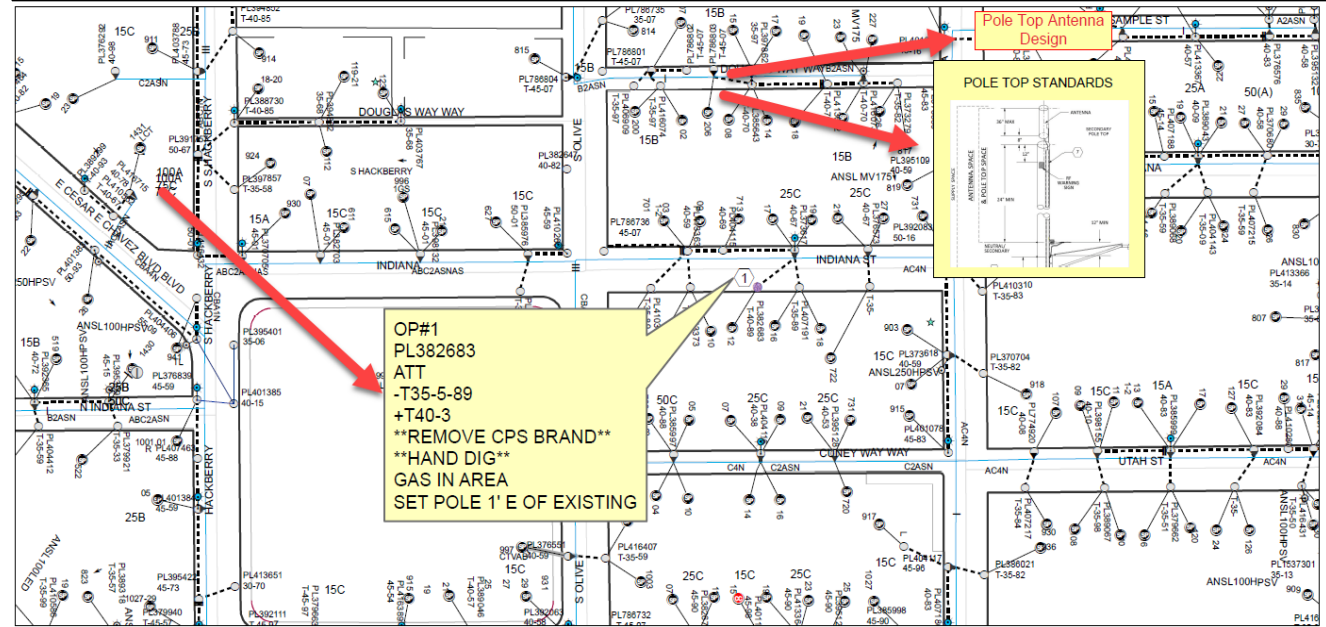
- Approved engineering company to coordinate site meeting with QUES/TRC
- Pole application must also be submitted with the proposed attachment height for each temporary attachment for CPS Energy to review
- Temporary attachment request “**signed**” must be submitted with the pole attachment application
- Waivers must be submitted with the pole attachment application or the application will be deemed incomplete and rejected
- All requests must meet NESC clearances in order to deemed approved for temporary attachment

# AT&T Pole Replacements



- AT&T pole change out must be on Work Request Project Type E-0069

<p>CONSTRUCTION COMPLETED BY: _____ DATE: _____ COMET DATE: _____</p> <p>FERG MAP PAGE 617-B7</p>	<p><b>OVERHEAD ELECTRIC DESIGN</b> PROJECT # E-0069</p> <p>40280542   WIRELESS 714 INDIANA ST #ANT</p> <p>RLIEBCHEN   210-679-2915   3/14/2019</p> <p>MGARCIA   210-245-3742   4/15/2019</p> <p>1 OF 1</p> <p>ESD</p> <p>X 2136889 Y 13696752 Z454 1" = 100'</p> <p>ESTIMATED MAN HOURS SKETCH SIZE 11 X 17 1" = 100'</p>	<p>Seal</p> <p>NO SEAL REQUIRED</p>	<p>Outages</p> <p>NO OUTAGES REQUIRED</p>	<p>Locates &amp; Permits</p> <p>CPS APPLICATION AND PROJECT MAP ATTACHED AT TASK 2360 IN WIMS</p> <p>NOTIFY COSA CLERK'S OFFICE PRIOR TO CONSTRUCTION OF PROJECT BY CALLING (210) 207-6949</p> <p>SAWS &amp; CPS GAS MAP ATTACHED AT TASK 2360</p> <p>DIG TESS#1956304704 DATE: 3/8/2019 AT OP#1</p>	<p>Environmental Notes</p> <p>ENVIRONMENTAL CHECKLIST &amp; APPROVAL ATTACHED AT TASK 2360</p>	<p>Miscellaneous Notes</p> <p>CONTACT DESIGNER 48 HRS PRIOR TO CONSTRUCTION AT (210) 679-2915 OR RLIEBCHEN@TXUE-INC.COM OR SUPERVISOR AT 210-245-3742 MGARCIA@CPSENERGY.COM</p> <p>**HAND DIG OP#1** GAS IN AREA SET POLE 1'E OF EXISTING</p>	<p>Field Meeting Notes</p> <p>ATT WORK REQUIRED AT OP#1</p>	<p>N</p>
	<p>Associated Work Orders</p> <p>WR#40253731</p>							



# WIRELESS ATTACHMENTS

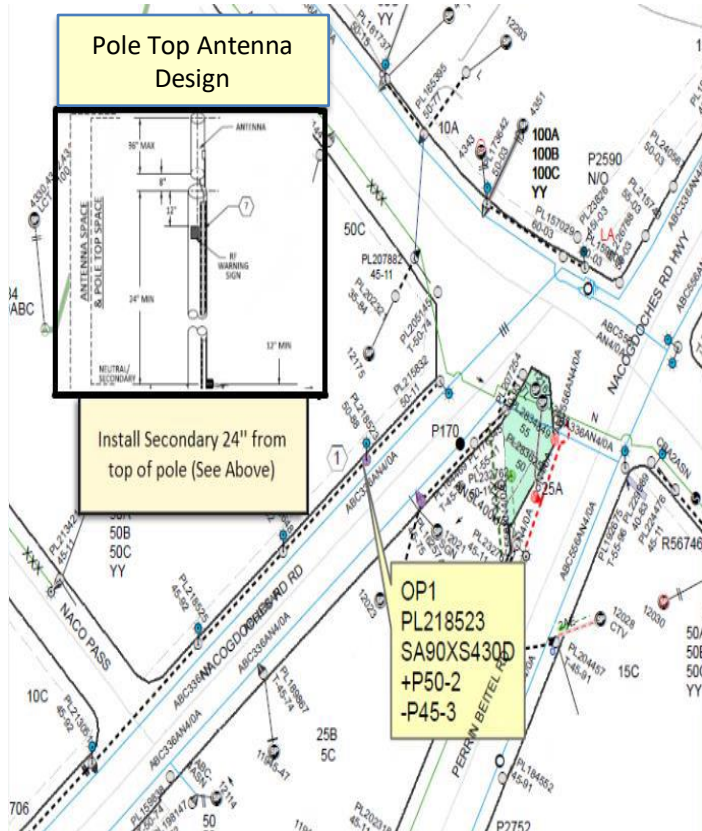
# Wireless GIS Designs



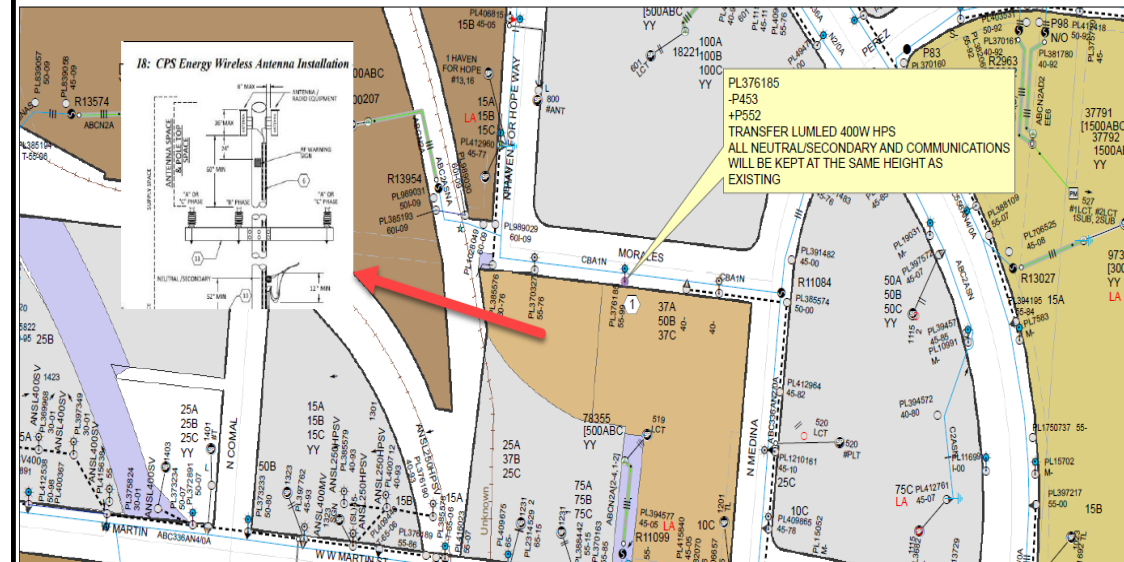
- **Wireless designs must have the correct screen shot on the design**
- **Mid pole antenna installations need to be mentioned on the design**
- **CPS Energy pole change outs must be on Work Request Project Type E-0070**

<p>CONSTRUCTION COMPLETED</p> <p>DATE:</p> <p>CONTRACT:</p> <p>FERG MAP PAGE 616-D4</p>	<p><b>OVERHEAD ELECTRIC DESIGN</b></p> <p>PROJECT # E-0070</p> <p>WIRELESS 40292154 WIRELESS SADI, MORALES_HAVEN_SC</p> <p>MATTHEW DELL COMPANY 847-744-1201 7/2/2019</p> <p>K. MORALES 818-414-1171</p> <p>ROW PERMIT # 328368</p> <p>POLE REPLACEMENT</p> <p>X-40292154 Y-13704848 MJ21 1" = 100'</p> <p>ESTIMATED MAN HOURS SKETCH SIZE 11 X 17 1" = 100'</p>	Seal	Outages	Locates & Permits Dig Tess-591327603 Water/Sewer Attached at 2360  Cosa PERMIT 328368	Environmental Notes <b>CHECKLIST/EPIC SHEET AND COA ATTACHED AT 2360</b>	Miscellaneous Notes	Field Meeting Notes <b>SEE SITE WALK</b>	N
	Associated Work Orders							

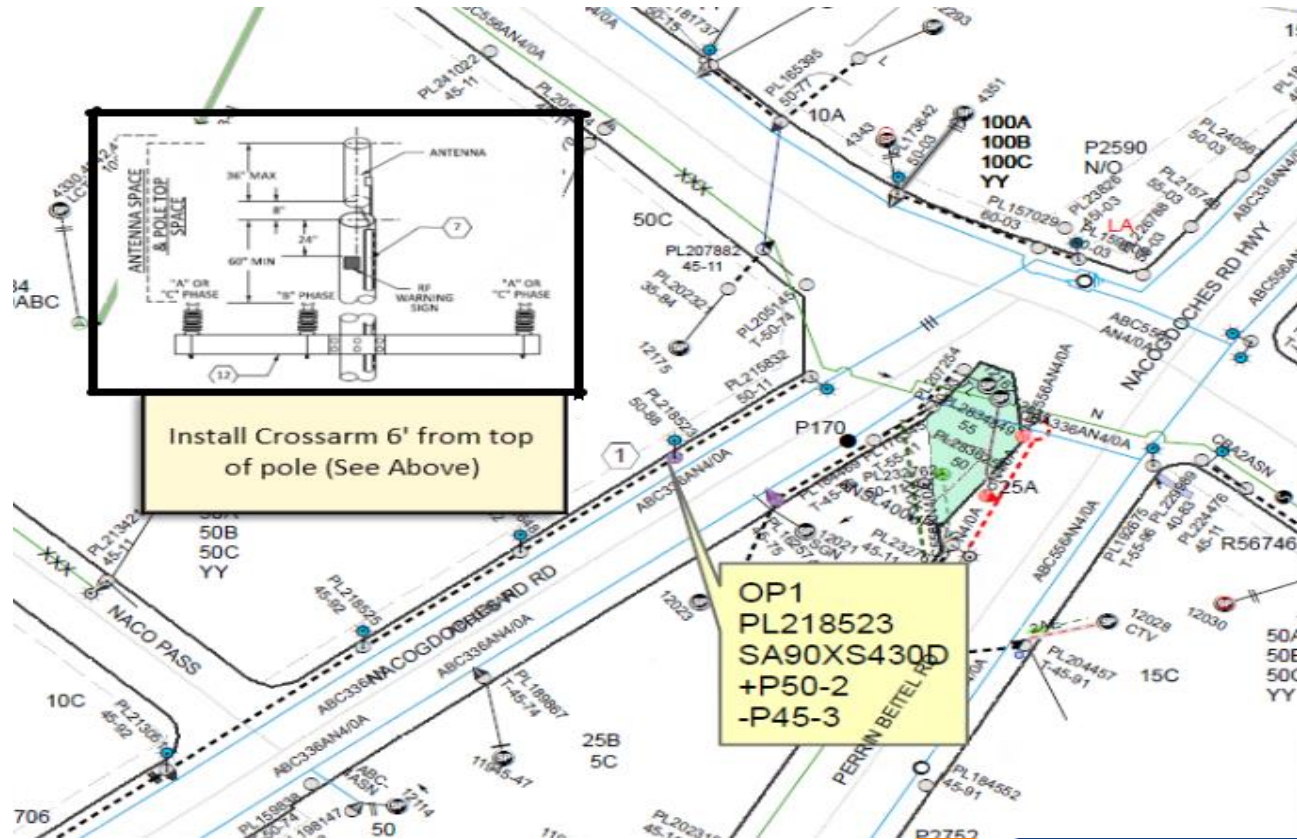
# Wireless GIS Designs



	OVERHEAD ELECTRIC DESIGN		PROJECT #	E-0070	Seal	Outages	Locates & Permits Dig Tess-591327603 Water/Sewer Attached at 2360 Cosa PERMIT 328368	Environmental Notes CHECKLIST/EPIC SHEET AND COA ATTACHED AT 2360	Miscellaneous Notes	Field Meeting Notes SEE SITE WALK	N
	WIRELESS 40292154		WIRELESS	SADT_MORALES_HAVEN_SC							
CONSTRUCTION COMPLETED		DATE	ROW PERMIT #	328368							
DATE		8/18-14-11/13	POLE REPLACEMENT								
CONTRACT #		X-40292154	Y-13704648	M121	1" = 100'						
ESTIMATED MAN HOURS		SKETCH SIZE 11 X 17									
FERG MAP PAGE 616-D4		1" = 100'									
		Associated Work Orders									

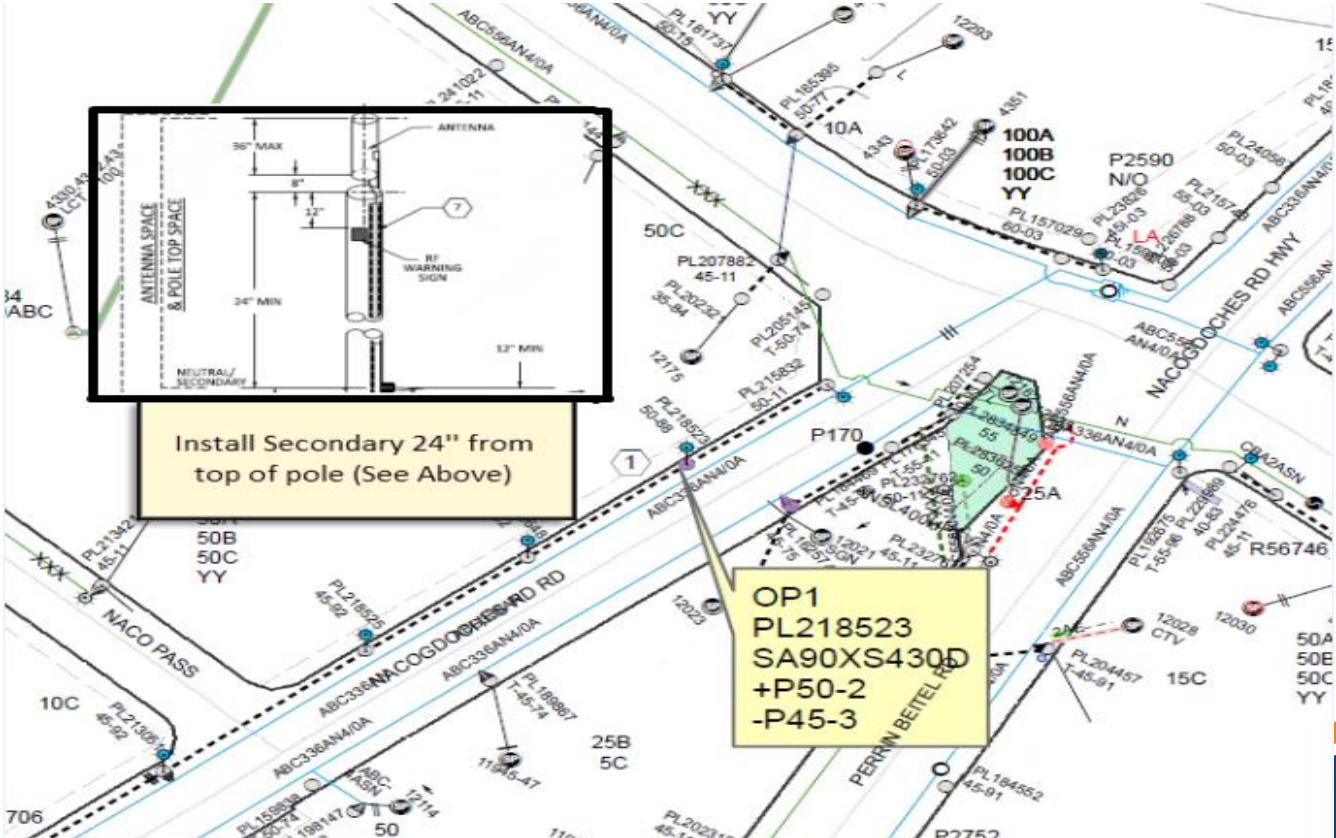


# GIS Design 1





# GIS Design 2



# **DOWNTOWN DECORATIVE STREETLIGHT PILOT PROJECT**

# Downtown Underground Fed Streetlights Update

- **Verizon and AT&T have completed their first pilot sites**
- **Verizon has received approval from COSA OHP to proceed with their proposed locations**
- **AT&T is working on minor adjustments in order to get COSA OHP approval**
- **T-Mobile is continuing to work with CPS Energy Engineering teams**



# Verizon Site 1 - 205 Alamo Plaza



# Verizon Site 1 - 205 Alamo Plaza meter/disconnect



# AT&T Site 1 – 123 West Market Street



# AT&T Site 1 - meter/disconnect



# **RESIDENTIAL/COMMERCIAL UNDERGROUND FED STREETLIGHTS**



# Residential/Commercial Underground Fed Streetlight Update

- **CPS Energy and City of San Antonio held a meeting to review the proposed residential/commercial underground fed streetlight solution**
- **The team approved the metallic grey color**
- **City of San Antonio is working on the role out engagement plan to ensure community buy in**
- **CPS Energy has notified the team that no pilot is needed for this type of installation**



# AT&T Photosims – 4G only



Existing CPS Energy Pole



Metallic Silver



Light Grey



# Verizon Photosims – 4G/5G



Existing CPS Energy Pole



Metallic Silver



Light Grey



Any Questions?





***Thank You***