

#### WELCOME

#### CPS Energy Quarterly Pole Attachment Workshop

December 1,2022

Confidential Information Property of CPS Energy





#### https://www.youtube.com/watch?v=Q35hIG5tuWg

### AGENDA

#### **1. General Topics**

- Pole attachment standards update
- Pole attachment services website
- Pole attachment contractors/GIS training
- Pole attachment applications

#### 2. Work Manager

- Work Manager task structure/updates
- New work manager Update "How to"
- Designer responsibilities
- Application rejections updates

#### **3. Wireline Attachment**

Wireline standards

#### 4. Wireless Attachments

- Mock up
- Wireless Antenna Violations
- 5. Downtown/Residential Streetlight Project Updates
- 6. CPS Energy Pole Inventory
- **7. Customer Engineering Updates**
- 8. Questions





# Pole Attachment Services Program Project Manager, Jeremy Ortega

- Jeremy is the pole attachment services program project manager
- Jeremy previously held the project manager position for the City of San Antonio
- jvortega@cpsenergy.com





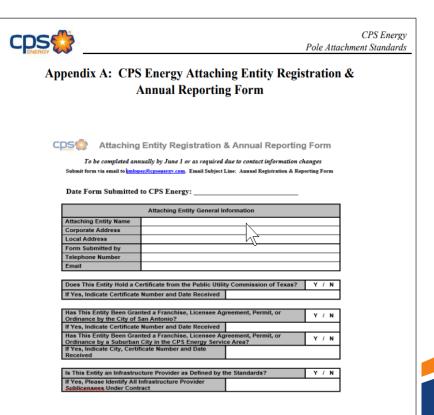


#### **GENERAL TOPICS**

#### POLE ATTACHMENT STANDARDS – APPENDIX A



 Attaching Entities are required to submit Appendix A "Attaching Entity Registration & Annual Reporting Form" to notify CPS Energy of confirm the contact information on file is valid by June 1 of every year.



# ANNUAL POLE ATTACHMENT INVOICE



- CPS Energy will be sending out letters to the attaching entities that have not paid the 2022 invoices
- CPS Energy will be sending the 2023 Pole Attachment Invoices to each Attaching Entities having permitted Wireline, Wireless (includes downtown and residential streetlights) and Banner Attachments in late January or early February 2023
- CPS Energy is required to use the FCC telecom pole attachment rate formula to set the annual rates
- Please send any updates to the billing address if anything has changed or need to be updated before December 15, 2022
- Under the Pole Attachment Standards Section II, the annual pole attachment rental fees are due within 45 days. If payment is not received within 45 days, then interest of 1.17% per month will be charged until the payment is made. If payment is not received within 60 days, then CPS Energy will suspend processing applications until payment is paid in full.

#### POLE ATTACHMENT SERVICES WEBSITE

- Register to receive
   quarterly meeting invites
- Updates on the pole attachment standards revisions
- Future quarterly workshops will be posted

#### My Home + My Zusinezz + Construction & Renovation + Work With Us + Customer Support + About Us +

Work With Da + Costomer suggert + About Da +



Starting Friday, July 1 our Customer Service Center hours will be: 7:45AM to 5:00PM Monday-Friday (except holidays).

#### 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 intrastructure 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** 

OPS Energy has released for comment the revised Pole Atlachment Standards, Version 6.0 (the "**Mandards**") and the **Joint Trench Agreement** on Riday, June 10, 2022. CPS Energy continues to work with stakeholders to ensure the Pole Atlachment Standards imprive a more streamined process and operations for all attaching entities.

Please submit all formal written comments using Form B18, Pole Attachment Standards Revision Request (PASRR) Comment Form, via email to poleattach@cpsenergy.com. Comments will be accepted through Friday, July 8, 2022.

#### Subscribe to receive email updates:

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

#### Register Contact Info Here

#### Previous Meetings/Workshops

- Quarterly Pole Attachment Workshop: May 27 2021
- Downtown Streetlight Pilot Project Update
- Quarterly Pole Attachment Workshop: Oct 2 2020
- Quarterly Pole Attachment Workshop: Dec 13 2019
- 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

#### Pole Attachment Standards

- Pole Attachment Standards V6 DRAFT June 10 2022
- Joint Trench Agreement Draft June 10 2022
   Pole Attachment Standards V5 Effective January 8 2021
- Pole Attachment Standards V4 Effective Apr 1 2019
- CPS Energy FCC Rate Calculation Support Jan 2022
- CPS Energy FCC Rate Calculation Support Jan 2021
- CPS Energy FCC Rate Calculation Support Jan 2020
- CPS Energy FCC Rate Calculation Support Jan 2019 (Revised 1-7-2020)

#### Pro Forma Agreements

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

- Helpful Links
- Certificate of Authority (City of San Antonio)
- NJUNS
- Approved Contractors
- Pole Inspection Guidelines
- Exhibit A Compensation Schedule

#### Special software is required to open PLA Client Ale links.

#### Forms

- A1 Registration and Annual Reporting Form
- B1 Standard Pole Attachment Application
   B2 Standard Wreless 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 Atlachment
- B8 Completion of Attaching Entity Construction
   B15 Pole Attachment Standards Revision Request (BASER)

8

### **POLE ATTACHMENT STANDARDS – STAKEHOLDER PROCESS**



- Continuous Updates to Pole Attachment Standards - Updates to pole attachment standards with stakeholder input
- Website

Primary source for communications - <u>www.cpsenergy.com/poleattachments</u>

- Contractor Lists Updates
- Personal Communications
   Frequent one-on-one meetings & calls
- Quarterly Workshops Information sharing forums
- Technical Workshops
   Topics vary
- Engineering Contractor Training
   CPS Energy University



UTC Latina Workshop

#### APPROVED POLE ATTACHMENT CONTRACTORS



- Engineering companies are currently at our maximum approval limit
- Engineering companies seeking approval will be placed on a waiting list
- CPS Energy will conduct reviews of companies to remove any companies not submitting pole attachment applications every six months
  - CPS Energy will be reaching out to any affected firms next month
- Companies removed will have to re-submit a letter from their Attaching Entity stating they will be doing work for them

# **APPROVED POLE ATTACHMENT ENGINEERING CONTRACTORS**



- CPS Energy will send new applicant engineering companies a "User Access Agreement"
  - Must be signed and have it executed before approval is made and added as an approved engineering company
- Engineering companies "MUST" notify CPS Energy within 24 hours on employee termination/leave

# **POLE ATTACHMENT SERVICES -ELECTRICAL MAKE READY TRAINING CLASSES**

- Future Proposed Trainings Please submit the name and company to get on the list for next available training
  - Date? (Possible class in February)
  - Duration: 5 days Mon Fri
  - Location Virtual
- For more information please email poleattach@cpsenergy.com



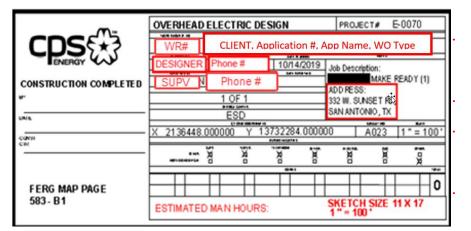
# ELECTRICAL MAKE READY TRAINING CLASSES CONT...



- GIS training does not make the trainee experts about pole attachment standards, it only help the trainee understand how to use the GIS program
- The training is to do the basic GIS designs that Pole Attachment Services needs in order to submit Electrical Make Ready Designs which includes pole changeouts, moving neutrals and raising of drip loops
- It may take the beginning designer at least 6 months to really understand the electrical make ready design part of the process
- GIS training doesn't include how to fill out the pole attachment application and understanding the pole attachment standards
- We need to work with the new trainees to understand the process for pole attachment applications, pole attachment standards and the electrical make ready designs to streamline the rejections.
- Engineering firms continue to have trained employees leave and new ones needing training

#### **GIS DESIGN PAGE EXAMPLES**





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

Project # E-0070 (E-0069 for AT&T)

Include work order type

- PALMR OH, PALMR UG, PALMR AT&T PCO, PALUPG

Attacher name in Work Request Title, Notes (Job Description)

Seal	Outages	Locates & Permits CPS APPLICATION AND PROJECT MAP ATTACHED	Environmental Notes ENVIRONMENTAL	Miscellaneous Notes	N
NO SEAL REQUIRED	NO OUTAGES REQUIRED	AT TASK 2360 IN WMIS NOTIFY COSA CLERK'S OFFICE PRIOR TO CONSTRUCTION OF PROJECT BY CALLING	CHECKLIST & APPROVAL ATTACHED AT TASK 2360	PRIOR TO CONSTRUCTION AT PHONE # OR EMAIL OR SUPERVISOR AT PHONE #	A
	Associated Work Orders	(210) 207-6949 SAWS & CPS GAS MAP ATTACHED AT TASK 2360	Field Meeting Notes	EMAIL "HAND DIG OP# GAS IN AREA	Ĩ
	WR#WR#	DIG TESS# DIG TESS # DATE MM/DD/YYYY AT OP#	AT OP#	SET POLE 1' E OF EXISTING	

Header Block Examples at Top of GIS Designs

### **APPLICATION SUBMITTALS**



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	Pole attack If permission is herby granted to attach the communication facilities described in this application to the number of poles index the "Total # of Poles" box below and as indicated in the attached statches or maps provided. However, if such attachment or removals are not completed within sity (80) days of the authorization date, bill or said attachments will continue until the date of actual empound. Application / Email Subject Line /											
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				Attaching	XX-2022-Walnut Creek PT2_REV1	Number of Removals	0	Total One Touch	15	Total Electric	4	
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Y-Coordinates		-98,444444		Telephone number	123-123-1234	Proposed Cable Veight	.313 lbs#t	Existing Cable Veight		1.17 lbslit		

# APPLICATION SUBMITTALS CONT...



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Operation manager	(R) emoving (E) sisting	Owner	ruer	r ore summare	ŧ	1	propo attachi	CLI	ENT, Ar	oplicati	on #, Ap	o Na	me, \	νοτ	vpe	Comments/Variance Requi		Ready) or	Pole	(if yes fill out Missing Pole Data worksheet)	or an approximation comments
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### COMMON APPLICATION REJECTIONS



#### Application missing required information

- CPS Energy pole number (PL#) missing on application
- Make ready not called for on the application
- Missing required attachments at submittal of application

#### Mistakes on Pole Loading Analysis

- All existing violations on pole are not fixed or new creates a new violation
- Incorrect construction grades
- Missing cables on pole
- Incorrect cable tensions
- Mid-Span clearance issues
- 21 Day application review will reset with every application rejection
- Contractors should <u>NOT</u> change the attaching entities application name on rejections, only a REV designation should be added to the end of the Application Name
  - Example Tag Number-Year-Application Number REV#

# COMMON POLE LOADING ANALYSIS REJECTIONS



- Should include Pole Loading Analysis Report(s) Coversheet stamped by a Professional Engineer or Each Individual Pole Loading Analysis Report is to be also stamped
- Pole Information on Pole Loading Analysis Reports should reflect that of Application height information. Pole Capacity Utilization Percentage should also match on Application and most UTD Pole Loading Analysis Reports
- Correct Wire Sizes/Types, Equipment Sizes/Types, Tensions, and Ownership needs to be utilized
- Anchor(s)/Downguy(s) at appropriate Lead Lengths/Attachment Heights, as shown on Application. (If Applicable)
- Pole Number, Class/Height, Species, and Construction Grade, shown as it exists or is Proposed on Application
- Note: CPSE Pole Attachment Standards state that "PLA Analysis shall be valid for a time period of no longer than six (6) months from the time of Application Submission. After this six (6) month period, a new PLA analysis will be required." (Appendix G: CPS Energy Pole Loading Requirements)

**POLE PHOTOS** 

- Applications must have time stamped photo(s) from within last 6 months
  - May need new photo if field conditions change,

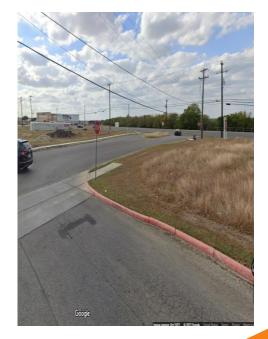
e.g.:

- New attachment
- Streetlight
- Combine photos into single PDF
- No Google Photos



Time Stamped Photo





Google Street View

# **APPLICATION SUBMITTALS/POST INSPECTIONS**



- Notice of new attachment construction completion must be submitted to CPS Energy inbox <u>poleapplications@cpsenergy.com</u> within 90 days in order for CPS Energy to do the post inspection and issue the pole attachment permit
- If an extension is needed after NTP is received, due to not being able to build; the request needs to be sent in a timely manner to CPS Pole Applications inbox <u>poleapplications@cpsenergy.com</u>
  - Courtesy emails will be sent out as a reminder that the 90 day post inspection is past due
  - Auto-post-fiber-inspection will be implemented if no post construction communication has been sent to EN Engineering and/ or TRC
- Wireless post inspections is required to notify TRC/EN Engineering to do the post inspections before the meter is installed to avoid an outage and higher cost to remedy the gig



### **WORK MANAGER**

#### **WORK MANAGER PROCESS**



- Designer is responsible to add the initials of the responsible person to ALL task and responsible to push the design from start until it is closed out.
- All task must be completed or bypassed when not needed.

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	1040	Working	М	REQ			Review WR Details / Assign Designer - Pro
×	2280	Pending	М	DSGN			Perform Field Survey / Obtain Data
×	2360	Pending	М	DSGN			Design Job
×	2400	Pending	м	DSGN			Request ROW / Easement From Custome
×	2445	Pending	м	DSGN			Obtain Permit(s)
×	2460	Pending	М	DSGN			Perform Supervisor Review of Design
×	2550	Pending	м	DSGN			Submit Design to Distribution Planning
×	2570	Pending	М	DSGN			Obtain Distribution Planning Approval
×	2605	Pending	М	DSGN			Send Contribution Charges to Customer
×	2670	Pending	М	DSGN			Obtain ROW
×	2680	Pending	м	DSGN			Indicate Official Revision
×	5000	Pending	м	APPR			Perform Supervisor Approval
×	5100	Pending	м	APPR			Approve Work Request
×	6000	Pending	М	DESFN			Finalize and Lock Down Design
×	9200	Pending	м	CIAC			Receive Customer Pre-Work Payment

- Major tasks:
- T2280-Designer: Field work (locates, staked locations)
- T2360 -Designer: GIS design
- T2460- Supervisor: Designer must notify supervisor by email that EMR design is ready for review. Supervisor review design, create CIAC invoice and send to client at T2605
- T9200-Designer: designer get notified by auto email when CIAC payment received
- T2680-Designer: if EMR project is completed (all permits attached, PE seal, etc) designer IND of Revision in GIS and must send an email to supervisor that design is ready for Final approval
- T5000/5100-Supervisor: Final approval
- T6000-Designer: designer finalizing design, coordinate tree trimming if needed, apply for any pending ROW permits, re-stake proposed pole locations, prepare for construction

#### WORK MANAGER PROCESS CONT...



×	11100	Pending	М	REL	Accept Work Request for Construction
×	12500	Pending	М	SCH	Schedule Work
×	12800	Pending	Μ	CONST	Send Scheduled Date to Customer
×	16100	Pending	М	CONST	Perform Field Work
×	16500	Pending	М	ABRPT	Perform Initial Material Reconciliation
X	16900	Pending	М	ABRPT	Receive Customer Post-Work Paymen
×	17000	Pending	М	ABRPT	Enter As-Builts
X	18200	Pending	М	CLOSE	Close Work Request

- Major tasks (cont'd):
- T11100-Designer: releasing design for construction, send email to scheduler.
- T12500/12800/16100-scheduler and construction
- T16500-Designer: email supervisor requesting NTP
  - T17000\_Designer: designer enters As Builts and submit it to supervisor for verification by email
  - T18200: Work Order is closed

### WORK MANAGER TASK STRUCTURE



- Task 2460 for EN Enginering is now Zsofia Cassidy – CZ is her initials and TRC is Elizabeth Teran- Delgado - TDEL
- Permit attachments expected at Task 2360
  - Design for Review (Preliminary)
    - Design for Construction (Final)
  - Dig Tess (Dig Tess # should also be on the design)
  - Gas Maps
  - SAWS/Water Maps
  - CPS Environmental forms/approvals (notes should be on the design in RED)
- Permit attachments expected before Task 5000 approval (should be attached @ Task 2360)
  - TXDOT Approval (if necessary)
  - City/County Approvals (if necessary)

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	SWR_156580.pdf				SAWS SEWER MAP		\\c
	WTR_156580.pdf				SAWS WATER MAP		\/c
OK	New From Attach Fil	e Co	py Attach	nment	Delete Refresh <b>O</b>	pen	) Help

# TEMPORARY ATTACHMENT FORM (B7) & WAIVER REQUEST



- Approved engineering company must coordinate site meeting with EN Engineering and/or TRC
- Pole application must be submitted with the proposed attachment height for each temporary attachment for CPS Energy to review
- A **<u>signed</u>** temporary attachment request must be submitted with the pole attachment application
  - The signed temporary attachment form must be uploaded into Work Manager task 2360
- 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 be approved for temporary attachment

### **AT&T APPROVAL LETTER**



- AT&T approval letter must also be saved in Work Manager Task 2360 as "AT&T Pole Replacement Approval"
- Work Request detail must reflect Project "E-0069" in Work Manager

February 06, 2019	
Extenet Systems Inc. Don Couch Ronnie Teaff	
RE: Occupancy Permit	
Customer Application:	SA015
Occupancy Permit:	2018-CS-TX-010175
ocation:	SAN ANTONIO, TX 78205
Project Number:	A01G7Y2
Permit Date:	2/5/2019

AT&T has confirmed that the structure(s) is available for your use.

This is your approved occupancy permit. You have 12 months to complete your construction work.

Once your work is completed please fill out and return the attached Applicant Notice of Completion form and send it to BRIAN BEDNARZ, who can be reached on 210-729-8410. BRIAN BEDNARZ will make the necessary arrangements to have the post inspection work completed.

Rental will be billed on Extenet Systems Inc. account for Texas. Per your occupancy request, our records will reflect an occupancy of the following.

Structure Type	Permit Quantity
Pole	1

If either the permit quantity or billing account is not correct, please notify us immediately, via email at: BB1308@att.com. Any unreported or unauthorized occupancy will be immediately subject to the appropriate penalty fines and removal actions as described in the associated tariff or agreement for the state involved.

Identification tags are required on your facilities at each point of contact (at each pole or manhole). The failure to install these identification tags may result in the inability to notify you in the event of a major failure or structure relocation.

Thank you,

BRIAN BEDNARZ Manager - Structure Access Attachments

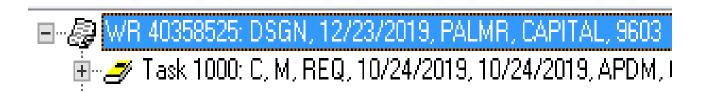


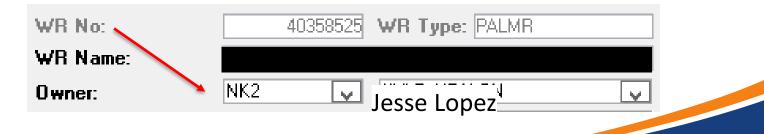
### **DESIGNER RESPONSIBILITY**



#### The Designer (design company) is the owner of the Work Order and GIS Design from creation through AsBuilts

• Make sure designer's initials are indicated under Work Request Owner to ensure delivery of emails as tasks are completed





#### DESIGNER RESPONSIBILITIES CONT...



- Designer (design company) is also responsible for field survey and staking for locates (design & construction)
  - Mark poles to be located
  - Stake location of new pole placement correctly
  - Must be available to meet foreman for any field questions
- Designer must coordinate the tree trimming around the power space by contacting Isidro Bonilla at 210-353-5243, IBONILLA@CPSENERGY.COM





#### **DESIGNER RESPONSIBILITIES CONT...**

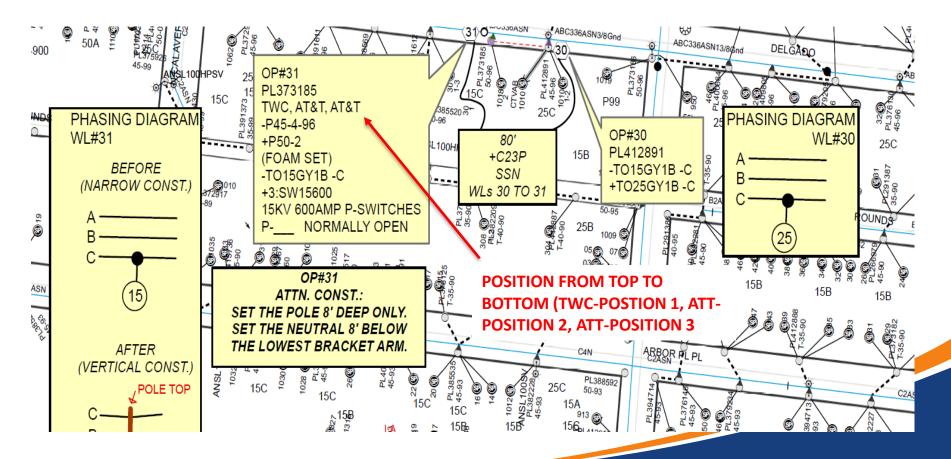


- Designer (design company) is responsible for coordinating the field meeting for the Recloser antenna adjustment for the proposed remedies with Antonio Rodriguez at 210-353-5703, <u>ABRodriguez@CPSEnergy.com</u>
- Designer must upload approved email from Antonio into Work Manager task 2360



#### **JOB SKETCHES**





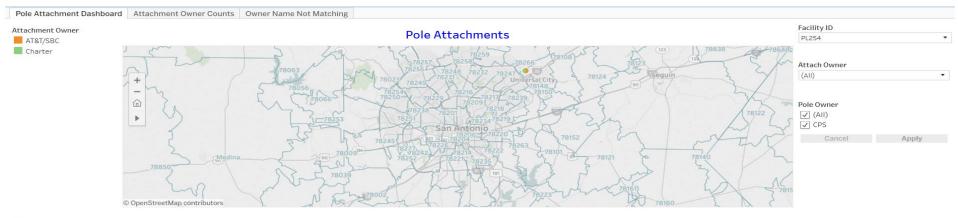


### **WIRELINE ATTACHMENTS**

### **POLE ATTACHMENT DASHBOARD**



• We are currently updating each attaching entity contact information to have it up to date



List

Facility ID	Age	Pole Owner	Inspection Date	Attach Position	Attach Owner	Contact Person	Phone Number	🚊 Email Address	
PL254	14	CPS	11/2/2016	1	Charter	Frank Cyprian	210-352-4312	frank.cyprian@charter.com	<b>*</b>
						Joel Gonzales	210-582-9357	Joel.Gonzales@charter.com	=
						Paul Edelen	210-352-4301	paul.edelen@charter.com	
						Ricardo Valadez	210-352-4309	ricardo.valadez@charter.com	
						Rick Grosso	210-582-9025	rick.grosso@charter.com	
				2	AT&T/SBC	Phillip Austin-CIVIC	210-283-1839	pa1657@att.com	+
									4

For questions regarding this dashboard please contact Dulia Rius ~ ddrius@cpsenergy.com ~ 210.353.2078

### COMMUNICATION FIBER PLACEMENT



- Wireline routes should follow existing CPS Energy pole lines
- Attachers shall place their fiber on the same side of the pole as CPS Energy Fiber
  - Safety issue Failure to do so, causes a safety issue for CPS Energy linemen that have to climb these poles
  - Attaching to the same side of the pole allow for a smoother transition when replacing poles
  - Reliability issue longer outage time to restore power during storm trouble



# COMMUNICATION TRANSFERS AND SAFETY CONCERNS



- CPS Energy continues to stress the importance of communication transfers
- CPS Energy receives numerous complaints per year regarding double wood and braced poles
- These issues pose huge safety concerns for CPS Energy
- CPS Energy contractors will contact and coordinate the attaching entities to transfer their facilities as soon as possible
- It attachments are simple transfers, CPS Energy may use our approved construction contractors to transfer and pull the old poles



# COMMUNICATION TRANSFERS FOR CIVIC IMPROVEMENT & TXDOT PROJECTS



- Attaching entities must follow all pole attachment standards and processes for any civic improvement or TXDOT project
- CPS Energy will not require an Attaching Entity that elects to transfer its existing facilities without Modification to replacement Poles or Streetlight Poles to submit a new permit Application as part of such transfer
- An affected Attaching Entity that elects to transfer its Existing Attachments, Wireless Installations, or Banner Attachments to the CPS Energy replacement Poles and/or Streetlight Poles, shall complete such transfer at no cost to CPS Energy and in accordance with all Applicable Engineering Standards
- Affected Attaching Entities seeking to transfer their existing facilities to CPS Energy replacement Poles or Streetlight Poles in response to a Civic Project shall be solely responsible for coordinating with the Civic Project's manager in order to determine whether any of Attaching Entity's transfer costs are reimbursable from the Civic Authority, and for entering into any necessary agreements with the Civic Authority concerning such cost reimbursements

#### **Process Standards**

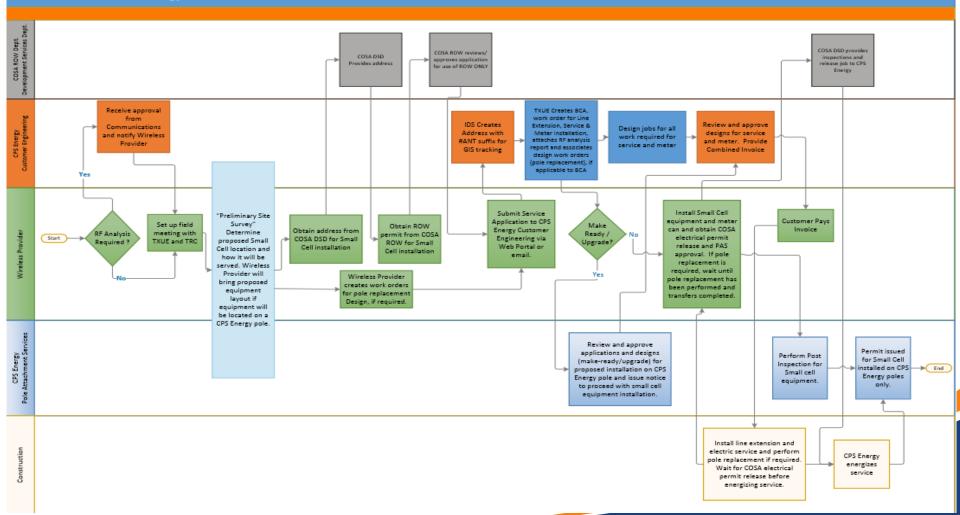


- Attachers must inform CPS/Contractors when fiber construction is complete
- Wireline routes should follow existing CPS Energy pole lines





### **WIRELESS ATTACHMENTS**



### **MOCK-UP REQUIREMENTS**



- Mock ups is a requirement for each type of installation and for any additional equipment being proposed to an existing "approved" installation
- Wireless antenna installations in the field must mirror the approved mock up installation or will be rejected



### **TEAM 3 SMALL CELL MOCK-UP INSTALLATION FOR 4G/5G RADIOS**





CPS Wood Pole



CPS Wood Pole "BEFORE"



CPS Wood Pole "AFTER"

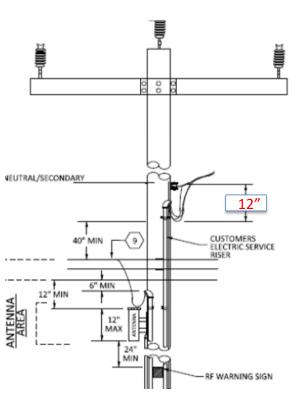
### WIRELESS ANTENNA INSTALLATION VIOLATIONS

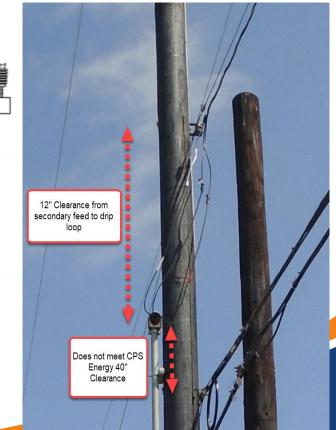
- ENTRUST Engineering and/or TRC are working with the wireless providers and customer engineering to start making the necessary adjustments on the weather head violations
- Clearance violations due to weather head installed too low
  - 40" clearance not met to the communication companies
- Communication companies fiber make ready needs to be done prior to the wireless antenna installation, using the one-touch process for simple transfers



### WIRELESS ANTENNA INSTALLATION VIOLATIONS

- Communication companies make ready not done, needs to be done prior to antenna installation
- Clearance violations due to weather head installed to low
  - 40" clearance not met to the communication companies
- Pole attachment services needs to do the post inspection before getting COSA DSD inspection to help keep cost and outages down





### **COMMUNICATION MAKE-READY IMPORTANCE**

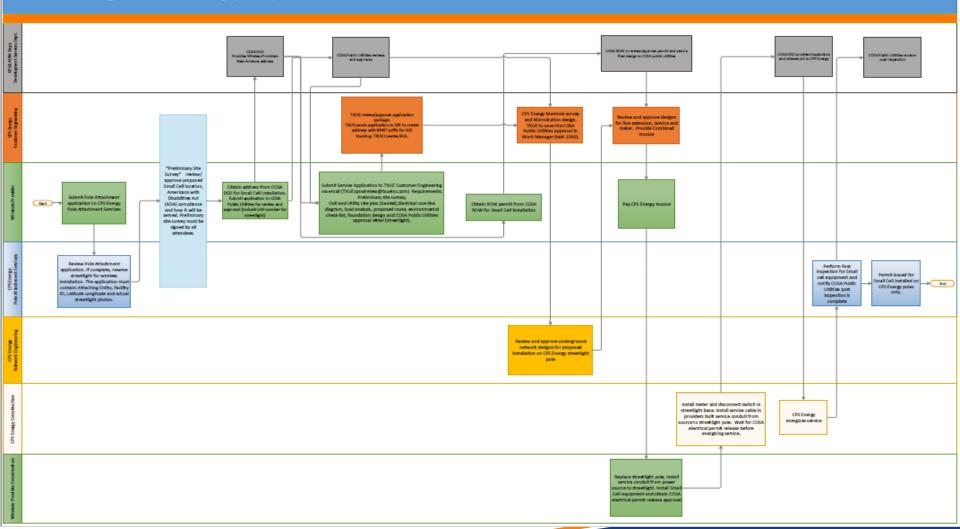


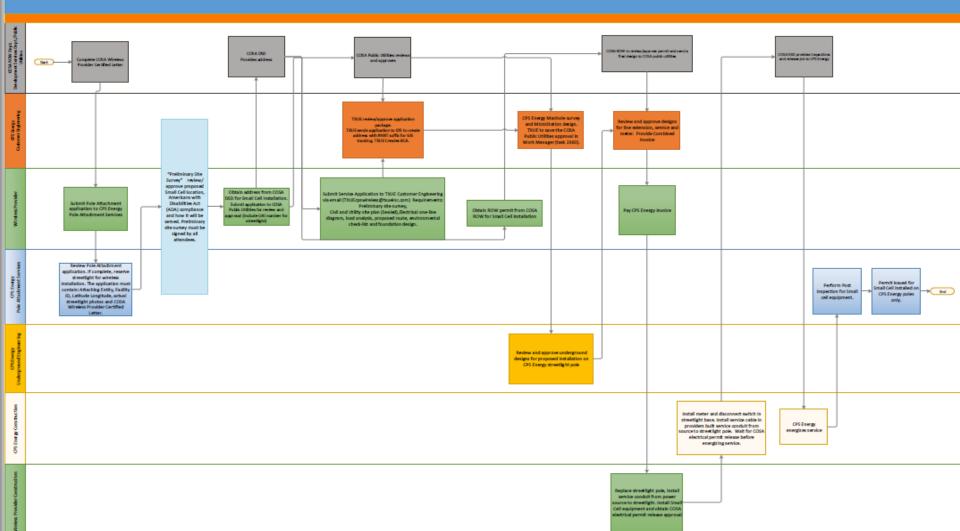
Communication companies fiber make ready needs to be done prior to the wireless antenna installation using the onetouch process for simple transfers





# DOWNTOWN DECORATIVE AND RESIDENTIAL STREETLIGHT UPDATE





### DOWNTOWN UNDERGROUND FED STREETLIGHT UPDATE



- Annual pole attachment rental invoices will include "ALL" applications submitted to date
- Annual pole attachment invoices will be sent out in January 2023 (Jennifer)
  - Team 1 update
    - Applications Submitted 178
  - Team 2 update
    - Applications Submitted 124
  - Team 3 update
    - Applications Submitted 47

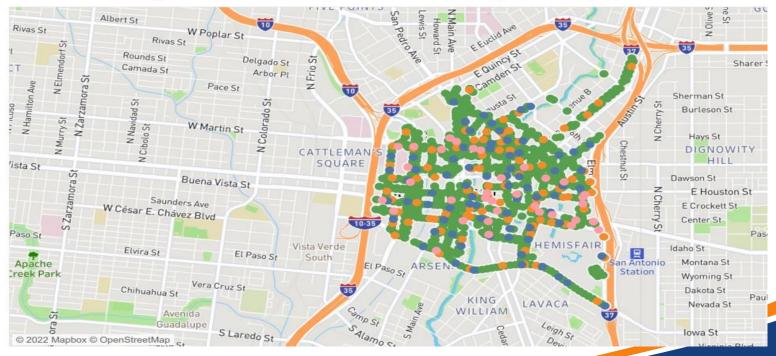




### DOWNTOWN STREETLIGHT WIRELESS ANTENNA SOLUTION



Downtown Underground FED Street Lights Refreshed on September 19, 2022



### **RESIDENTIAL STREETLIGHT UPDATE**



Application Update – Submit any cancellation applications for residential streetlight sites not needed anymore in order to invoice the correct amount of sites for the annual pole attachment invoices by July 31, 2022

#### Team 1 update

Applications Submitted – 36

### Team 2 update

• SApplications Submitted - 10

### Team 3 update

Applications Submitted – 0



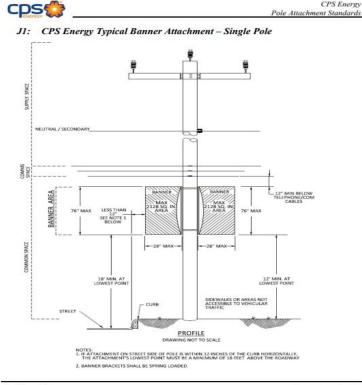


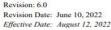
### **BANNER ATTACHMENTS**

### **BANNER UPDATE**



- We continue to work with Dixie Flags, internal and external customers on banner applications throughout the City of San Antonio and Suburban Cities
- Request include both the single and double banner installations





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### **CUSTOMER ENGINEERING UPDATES**

# CPS Energy Customer Engineering Portal CPS

- Go to <u>www.cpsenergy.com</u>
- Click on Building & Renovation Srvs for Businesses/Developers

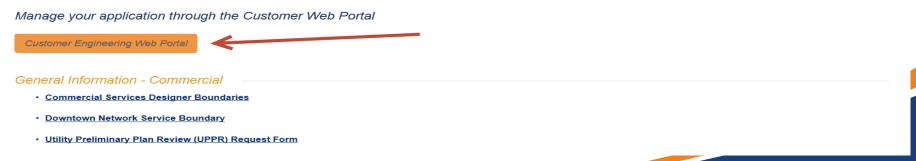
			Español   Billing or S	ervice Questions? Call 210-353-2222	Q	
My Home	Developers & Builders 👻 About Us 🗸	Work With Us 🗸	Customer Support 👻	Ways to Pay	Contact Us	
Business Custor New Infrastructu Distributed Gene Safety on the Joi	Business Curre We can help with security lights or b Businesses/Dev CSI	street lights. Renovation Srvs for 4 elopers I	ons, service remodel requests, Building & Renovation Srvs Homeowners/Builders Pole Attachment Services	<sup>for</sup> nage My Accour	nt	
		for your Bus	STAT ARDS siness or Home Learn More	Password Log In 된 Enroll My Account Forgot	Password?	



Click on Customer Engineering Web Portal



#### Building and Renovation Services for Businesses / Developers





Check Work Request Status (No login required)

	Customer Engineering: Cal	l (210) 353-4050 (7:30am-4pm M-F)
Lusername Rev Password	Customer Engineering Web F	
SIGN IN 🖜	Relevant Links	Guides & Forms
Forgot Username/Password? Contact Customer Engineering	Service Request Required Documents Click Here to Pay Construction Invoices	Web Portal Authorization Form
	Click Here to Check Project Work Status (No lo	ogin required)
	**** New Enhanceme	onts to Customer Web Portal **** o-use features are now available to you through the CPS

If you're not completely satisfied with the service you are receiving from CPS Energy, we want to hear from you at 210-353-4001.

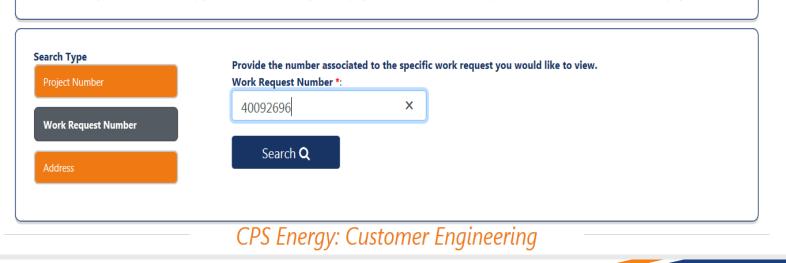




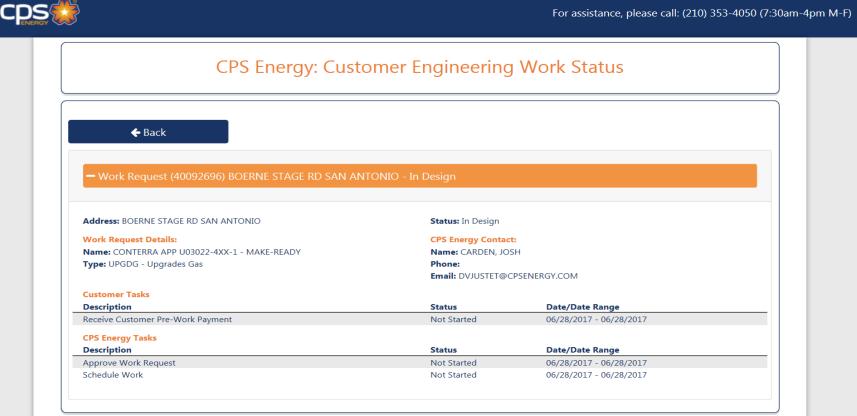
For assistance, please call: (210) 353-4050 (7:30am-4pm M-F)

#### CPS Energy: Customer Engineering Work Status

Please select how you would like to lookup your work details. You may use the project number, a specific work request number or the street address on the project.







CPS Energy: Customer Engineering



### POLE ATTACHMENT INVENTORY

### **POLE ATTACHMENT INVENTORY**



- CPS Energy will be conducting the pole attachment inventory project in mid 2023
- Pilot Proposed date June 1, 2023 July 1, 2023
- Pole inventory July 1, 2023 June 30, 2024
- Data Review and GIS Data transition into production – proposal is possibly monthly from July 1, 2023 – June 30, 2024
- Proposed Project complete October 1, 2023





### LIDAR DATA AND LOW COMMUNICATION LINE ISSUES

### OUTAGES AS A RESULT OF LOW COMMUNICATION LINES



- CPS Energy continues to use the LiDAR data to identify potential low communication lines
- CPS Contractors will be coordinating with the attaching entities any adjustments needed and plan any necessary make ready work needed



Lidar 3D view

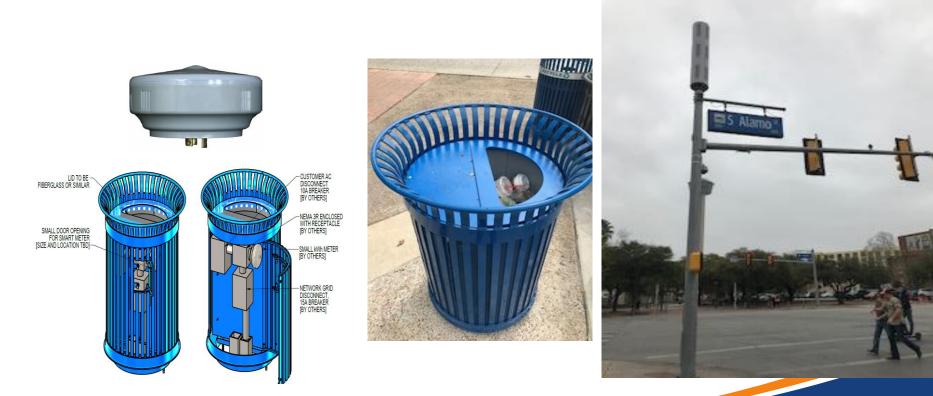


### Announcements

- Next quarterly meetings are scheduled for February 9, 2023 and May 12, 2023
- Pole attachment services will have two engineers join the team in January 2023

### **RECYCLE BIN/HOCKEY PUCK METER PILOT PROJECT**







#### https://www.ksat.com/news/local/2022/09/20/what-is-5g-andhow-does-it-work-ksat-explains/? vfz=medium%3Dsharebar





## Valmont Street Pole examples



SMALL CELL SERVICE AND METERING INSTALLATION WITH AS-FOUND FIELD COMMENTS

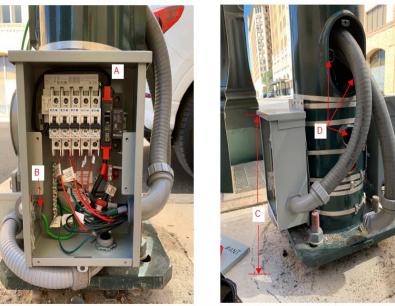




A. STREETLIGHT POLE'S 1-1/4-INCH THREADED COUPLINGS NOT UTILIZED, RATHER FLEX CONDUIT IS INSERTED INTO HAND HOLE THUS PREVENTING THE PROPER USE OF THE GROUNDING POINT.

- B. CONTRACTOR INSTALLED NON-APPROVED 100 AMP DISCONNECT IN PLACE OF THE PRE-APPROVED 60 AMP GRID-TIED DISCONNECT. 100 AMP DISCONNECT IS LARGER AND DEEPER PREVENTING THE SAFE CLOSING OF THE SHROUD.
- C. NEUTRAL IS EXTENDED FROM GRID-TIED DISCONNECT TO METER RATHER THEN UTILIZING NEUTRAL AT METER ENCLOSURE.
- D INDIVIDUAL GROUNDING CONDUCTOR INSTALLED TO FACH DEVICE RATHER THAT SINGLE RUN TO DISCONNECT

SMALL CELL SERVICE AND METERING INSTALLATION WITH AS-FOUND FIELD COMMENTS



A. CONTRACTOR INSTALLED 60 AMP MAIN PANEL, BUT NOT PRE-APPROVED PANEL DESIGNED TO FIT WITHIN SHROUD. B. INDIVIDUAL GROUNDING CONDUCTOR INSTALLED, BUT NOT ROUTED THROUGH GRID: THE DISCONNECT, A-BASE METER ENCLOSURE, CUSTOMER'S MAIN SERVICE PANEL, AND GROUND BONDED AT A SINGLE POINT SHARING THE SAME RACEWAY. C. MAXIMUM HEIGHT OF MAIN SERVICE PANEL NOT TO EXCEED 14-INCHES FROM FINISHED GRADE. D. STREETLIGHT POLE 1-1/4-INCH THREAD POLE COUPLINGS NOT USED, RATHER FLEX CONDUIT IS INSERTED INTO HAND HOI E THIS PREVENTION THE PROPER LISE OF THE GROUNDING POINT

#### SMALL CELL SERVICE AND METERING INSTALLATION WITH AS-FOUND FIELD COMMENTS







- A. STREETLIGHT POLE'S 1-1/4-INCH THREADED COUPLINGS NOT UTILIZED, RATHER FLEX CONDUIT IS INSERTED INTO HAND HOLE THUS PREVENTING THE PROPER USE OF THE GROUNDING POINT.
- B. CONTRACTOR INSTALLED NON-APPROVED 100 AMP DISCONNECT IN PLACE OF THE PRE-APPROVED 60 AMP GRID-TIED DISCONNECT. 100 AMP DISCONNECT IS LARGER AND DEEPER PREVENTING THE SAFE CLOSING OF THE SHROUD.
  C. NEUTRAL IS EXTENDED FROM GRID-TIED DISCONNECT TO METER RATHER THEN UTILIZING NEUTRAL AT METER ENCLOSURE.
  D. INDIVIDUAL GROUNDING CONDUCTOR INSTALLED TO EACH DEVICE RATHER THAT SINGLE RUN TO DISCONNECT.

SMALL CELL SERVICE AND METERING INSTALLATION WITH AS-FOUND FIELD COMMENTS





- A. CONTRACTOR INSTALL #2 AWG AND NOT THE PRE-APPROVED #6 AWG. #2 AWG WILL WORK, BUT HARDER TO MAKE UP AND REQUIRES GREATER BENDING RADIUS.
- B. GROUND BUS BAR SHOULD BE MOUNTED 180 DEGREE FROM PRESENT INSTALLATION TO AVOID METER CONTACT.
- C. NO GROUND BONDING NOTED AT A-BASE METER ENCLOSURE. GROUND BONDING CONDUCTOR SHALL BE ROUTED THROUGH AND BONDED AT EACH DEVICE.
- D. GOOD MOUNTING OF A-BASE METER SOCKET AND ENCLOSURE, BUT EXCEED 14-INCH HEIGHT LIMIT OF EQUIPMENT E. MAXIMUM HEIGHT OF GRID-TIED DISCONNECT AND METER NOT TO EXCEED 14-INCHES FROM FINISHED GRADE.

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SMALL CELL SERVICE AND METERING INSTALLATION WITH AS-FOUND FIELD COMMENTS





A. CONTRACTOR INSTALLED 60 AMP MAIN PANEL, BUT NOT PRE-APPROVED PANEL DESIGNED TO FIT WITHIN SHROUD. B. INDIVIDUAL GROUNDING CONDUCTOR INSTALLED, BUT NOT ROUTED THROUGH GRID-TIED DISCONNECT, A-BASE METER ENCLOSURE, CUSTOMER'S MAIN SERVICE PANEL, AND GROUND BONDED AT A SINGLE POINT SHARING THE SAME RACEWAY. C. MAXIMUM HEIGHT OF MAIN SERVICE PANEL NOT TO EXCEED 14-INCHES FROM FINISHED GRADE.

D. STREETLIGHT POLE 1-1/4-INCH THREAD POLE COUPLINGS NOT USED, RATHER FLEX CONDUIT IS INSERTED INTO HAND HOLE THUS PREVENTING THE PROPER USE OF THE GROUNDING POINT.

SMALL CELL SERVICE AND METERING INSTALLATION WITH AS-FOUND FIELD COMMENTS





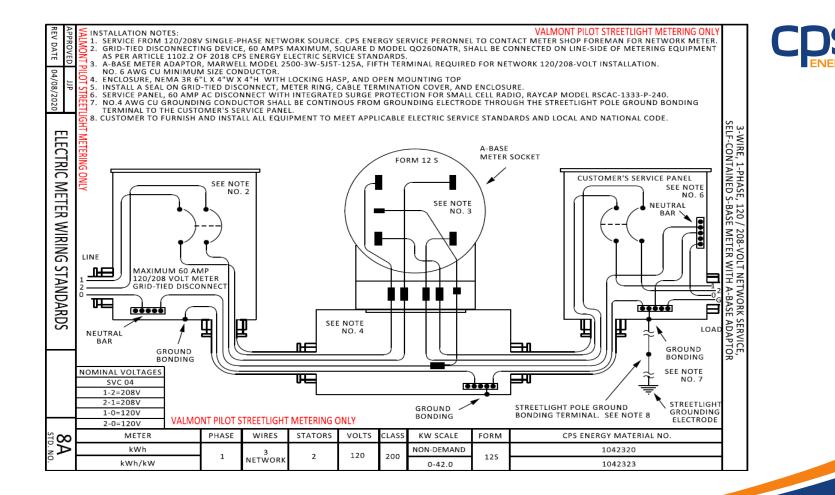
A. MAXIMUM HEIGHT OF MAIN SERVICE PANEL NOT TO EXCEED 14-INCHES FROM FINISHED GRADE. B. SHOULD BE - GRID-TIED DISCONNECT - 60 AMP SQUARE D MODEL QO260NATR C. SHOULD BE - CUSTOMER SERVICE PANEL - RAYCAP MODEL RSCAC-1333-P-240



#### SMALL CELL SERVICE AND METERING INSTALLATION WITH AS-FOUND FIELD COMMENTS



CPS ENERGY IN PARTNERSHIP WITH THE CITY OF SAN ANTONIO AND SMALL CELL PROVIDERS MOCK INSTALLED A GRID-TIED DISCONNECT, METER A-BASE EQUIPMENT, AND CUSTOMER'S MAIN SERVICE PANEL WITHIN THE LIMITED WORKING SPACE UNDER THE SHROUD OF THE VALMONT STREETLIGHT POLE AT THE CPS ENERGY POLE TRAINING YARD. RECENT INSTALLATIONS HAVE DEVIATED FROM THE PREAPPROVED INSTALLATION THAT ARE AFFECTING THE SAFE SECURING OF THE SHROUD.





## **Thank You**