



**PPL companies**

## **Third Party Attachments Handbook**

**Current Version**

**March 17, 2020**

## Introduction

Louisville Gas and Electric and Kentucky Utilities permit attachments to its electric distribution poles. LG&E/KU has created this Third Party Attachment Handbook as a reference guide for Attachment Customers before, during, and after the attachment process. It addresses the agreements that need to be in effect prior to attachment, the attachment process from beginning to end, special types of attachments, unsafe and unauthorized attachments, and transfers and relocation of existing attachments. Finally, it provides a set of reference items including maps of the LG&E/KU service territories, contact information for departments in both companies, and our wireline and wireless attachment standards.

Safety is LG&E/KU's first priority, followed shortly by the reliability of its electric system. Every requirement explained in this handbook is rooted in these priorities. While discussed later, it should be stated in this introduction: the Attachment Customer has an ongoing obligation to work safely, in compliance with the National Electrical Safety Code (NESC) and all relevant codes, as well as LG&E/KU's construction and safety standards and practices. Failure in this area can have consequences—injury or death to workers or the public—that are more important than attachment projects.

When used in a PDF form, this Handbook contains working links from the Table of Contents to specific sections. It also contains links to specific sections when they are referenced within the Handbook itself.

While this Handbook is intended to be a comprehensive resource, Attachment Customers should feel free to contact LG&E/KU regarding any questions or concerns about the Handbook. Please see Chapter 7, References, for a list of relevant contacts.

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# 1. Scope of Handbook

## 1.1 Purpose

1. LG&E/KU provides this Handbook to its Attachment Customers as a consolidated guide to LG&E/KU's requirements, standards, practices, and expectations in the area of pole attachments. This Handbook addresses most topics related to pole attachments and should be used as a reference for LG&E/KU's treatment of those topics.

## 1.2 Relationship to Tariff and Attachment Agreements

1. This Handbook is intended to be an operational guide to Tariff and Attachment Agreement provisions, rather than a restatement of them. LG&E/KU designed this Handbook to be consistent with those provisions; any apparent inconsistencies are unintentional, and provisions of the Tariff and individual Attachment Agreements will control.

## 1.3 Updates

1. LG&E/KU will update this Handbook on a regular basis and post the current edition on its website. Attachment Customers are responsible for ensuring that they use the current edition of this Handbook. The website for LG&E/KU's Pole Attachment Services Page appears in Chapter 7: References below.

## 2. Attachment Rights

### Overview

This chapter explains the classes of Attachment Customers that may attach facilities to LG&E- and KU-owned structures, as well as the necessity of having an active attachment agreement before making any attachments.

#### **2.1 PSA Rate Schedule Availability**

1. LG&E/KU has included the terms and conditions of pole attachments into the Pole and Structure Attachment (PSA) Rate Schedule of its Electric Service Tariff. The PSA Rate Schedule is available to the facilities of Governmental Units, Educational Institutions, Cable Television System Operators and Telecommunications Carriers as those terms are defined in the PSA Rate Schedule. Please refer to links to the PSA Rate Schedule for LG&E and KU in Chapter 7: References below.

#### **2.2 Requirement of Attachment Agreement**

1. Every Attachment Customer must have a signed attachment agreement in effect prior to submitting attachment applications or making attachments. LG&E/KU will not review attachment applications before an attachment agreement is in effect. Attachments made before an agreement is in effect are considered unauthorized attachments.
2. LG&E/KU's joint use agreements do not grant state-wide attachment rights. A separate attachment agreement is necessary for attachments outside a joint use partner's specified ILEC territory.

#### **2.3 Separate Agreements are Required for LG&E and KU**

1. LG&E and KU are separate companies serving separate electric service territories. If an Attachment Customer plans to attach to poles located in both services territories, a separate attachment agreement is required for both LG&E and KU. Please refer to the service territory map in Chapter 7: References below.

## **3. Attachment Processes**

### **Overview**

This chapter sets out the processes for making attachments to LG&E/KU-owned structures. It offers detailed instructions and explanations for how an Attachment Customer should create an attachment application in Katapult, LG&E/KU's online pole attachment application portal, and for how LG&E/KU review and manage the application review process. This chapter addresses attachment methods for the three structure types for which LG&E/KU permit attachment, as well as the differences between the attachment process for wireline and wireless attachments.

### **Chapter Outline**

- 3.1 Wireline Attachment Process**
- 3.2 Wireless Attachment Process**
- 3.3 Transmission Attachment Process**
- 3.4 Duct Attachment Process**

## **3.1 Wireline Attachment Process**

### **Overview**

This section describes the process for attaching wireline facilities to LG&E/KU-owned poles. It addresses creating a pole attachment application, including how to use LG&E/KU's pole attachment application portal, known as Katapult. It also explains LG&E/KU's processes for reviewing applications, performing make-ready in the supply space, and ensuring communications space make-ready is performed. Finally, it describes the attachment installation process and notes how LG&E/KU will address installations that do not match the approved design.

### **Section Outline**

#### **3.1.1 Applications**

#### **3.1.2 Review**

#### **3.1.3 Supply Space Make-Ready**

#### **3.1.4 Communications Space Make-Ready**

#### **3.1.5 Installation**

#### **3.1.6 Inspection**

### 3.1 Wireline Attachment Process

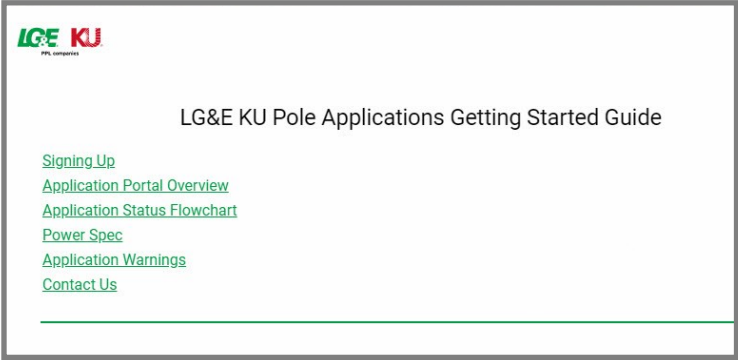
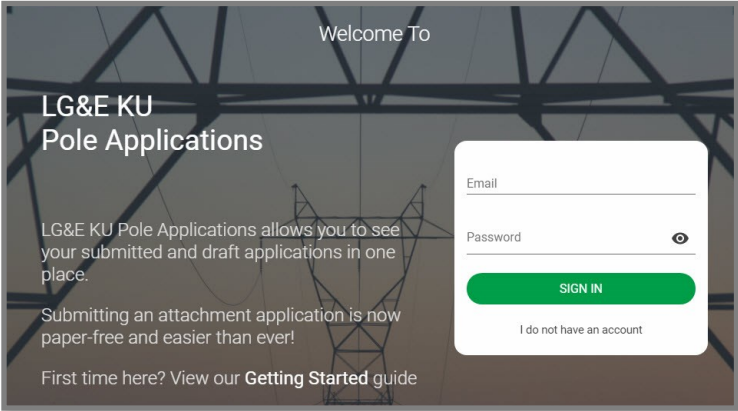
#### 3.1.1 Applications

##### 3.1.1.1 Application Requirement

1. LG&E/KU requires an attachment application for all attachment projects except as stated in Section Attachments Not Requiring an Application below.

##### 3.1.1.2 Katapult

1. LG&E/KU utilizes Katapult, a web-based application portal, to process attachment requests. The web address for the Katapult portal is found in the References section below.
2. All attachment applications must be submitted through the Katapult system.
3. New Attachment Customers must register a new account with Katapult.
4. Katapult provides a “Getting Started” guide on the portal website.
5. LG&E/KU will provide Katapult training by request.



Katapult’s login (top) and “Getting Started” pages.

### 3.1.1.3 Notes on Design

1. Every proposed design must safely accommodate new attachments.
2. New attachments must be installed in the next highest position on the pole.
3. Proposed attachments must meet appropriate requirements for the following clearances, both at the pole and mid-span:
  - a. From the proposed attachment to energized electric facilities (48” at the pole, 48” or 36” in the mid-span)
  - b. Between attachments in the communications space at the pole (12” at the pole and 4” in the mid-span)
4. If the proposed attachment cannot be safely accommodated on the existing pole, a make-ready solution must be developed. This could involve rearranging facilities in the communications space, the supply space, or both. If no make-ready solution is available, the pole must be replaced with a taller pole.

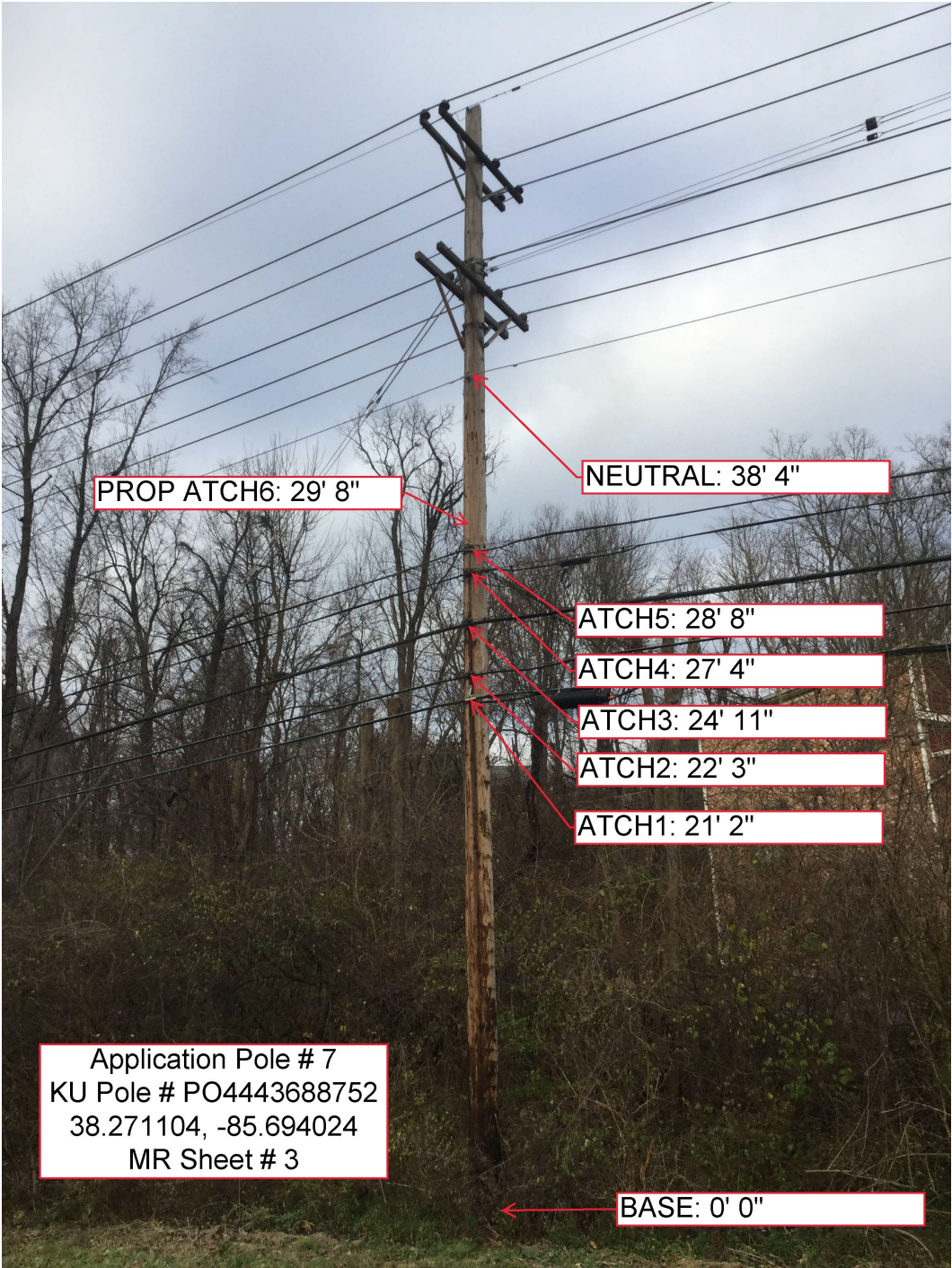
### 3.1.1.4 Application Contents

1. To be considered complete, attachment applications must contain the following information:
  - a. Pole owner, pole number, pole location
  - b. Photo of the pole showing existing supply and communications attachments and their heights
  - c. Physical attributes of proposed attachments
  - d. Proposed start date for attachment construction
  - e. Any issues then known to the Attachment Customer regarding space, engineering, access, or other matters that may require resolution before installation of attachments
  - f. Proposed make-ready drawings (if applicable)
  - g. A pole loading study (if required)

#### 3.1.1.4 Application Contents

2. Pole photos indicating existing supply and communications attachments and their heights, and proposed make-ready solutions, must be substantially in the form shown on the following pages. If not provided in this form, LG&E/KU may require the application to be resubmitted.
  - a. Pole photo must be from an angle that shows existing facilities. If the photo does not appear with make-ready notes, it must reference the corresponding make-ready notes.
  - b. Make-ready notes must differentiate between supply space make-ready and communications space make-ready by using a different color text for each type.
  - c. If the pole photo only indicates the “lowest power,” and not all supply facilities, LG&E/KU may require that additional facility heights be provided. For example, if an application requests a special clearance reduction, and the pole photo only indicates the facilities related to the special clearance, LG&E/KU may require that the height be provided for the next lowest facilities that are not eligible for a special reduction.

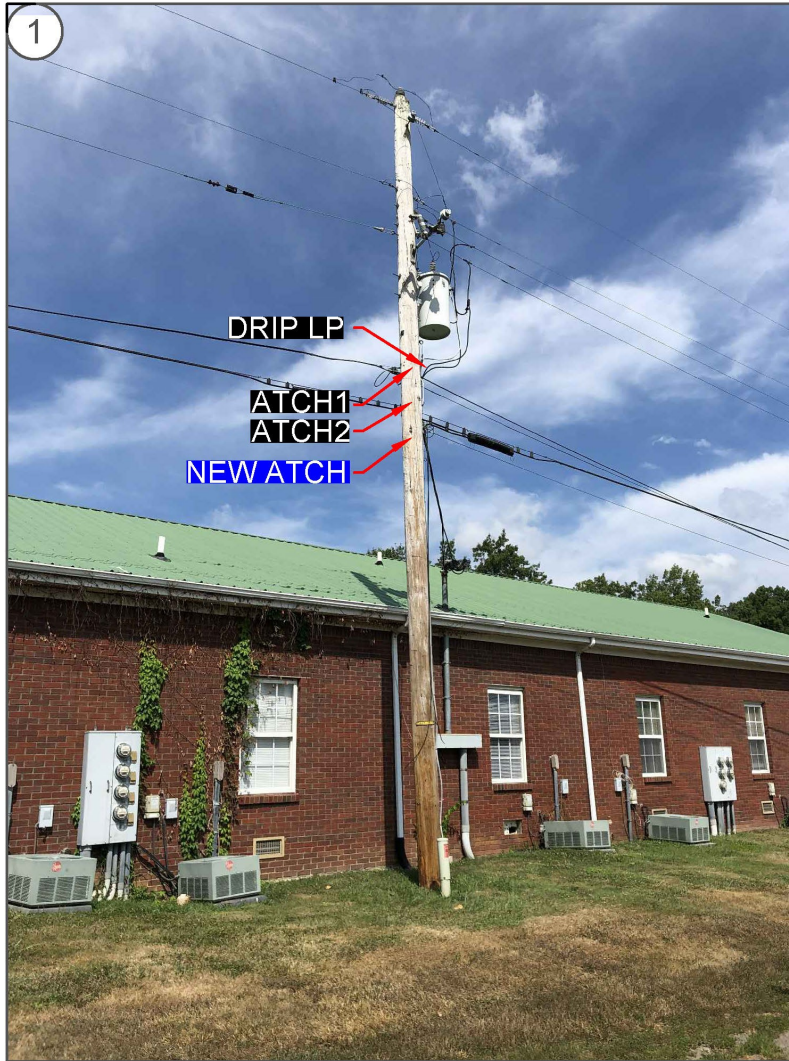
3.1.1.5 Pole Photo Example



NOTES:

- 1. Photo is from across the street, clearly showing existing attachments.
- 2. Measurements are in “feet-inches” format, not decimals.
- 3. Pole number is included on photo, as well as a “sheet” reference for make-ready notes.

### 3.1.1.6 Make-Ready Solution Example



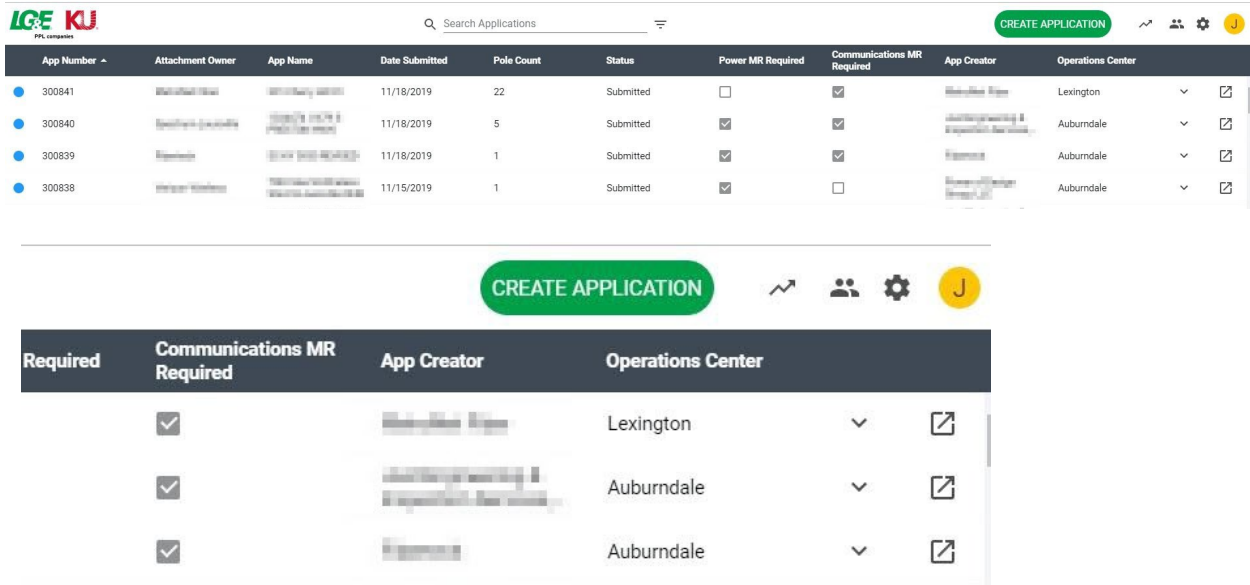
POLE NOTES	
POLE NUMBER	1
OWNER	LG&E
TAG #	35685-76898
SIZE	45/CL3
LOWEST POWER	DRIP LP @ 24'-4"
ST LT/FL LT	
NEW ATCH	ATTACH @ 20'-0"
ATCH1	24'-4" LOWER 5'-4" TO 18'
ATCH2	22'-4" LOWER 4'-4" TO 19'
ATCH3	
ATCH4	
ATCH5	
LG&E/KU MAKE READY	RAISE XFRM ABOVE SEC REPLACE 3-W SEC W/ TRIPLEX TO P4
NEW ATCH NOTES:	START NEW BUILD

#### NOTES:

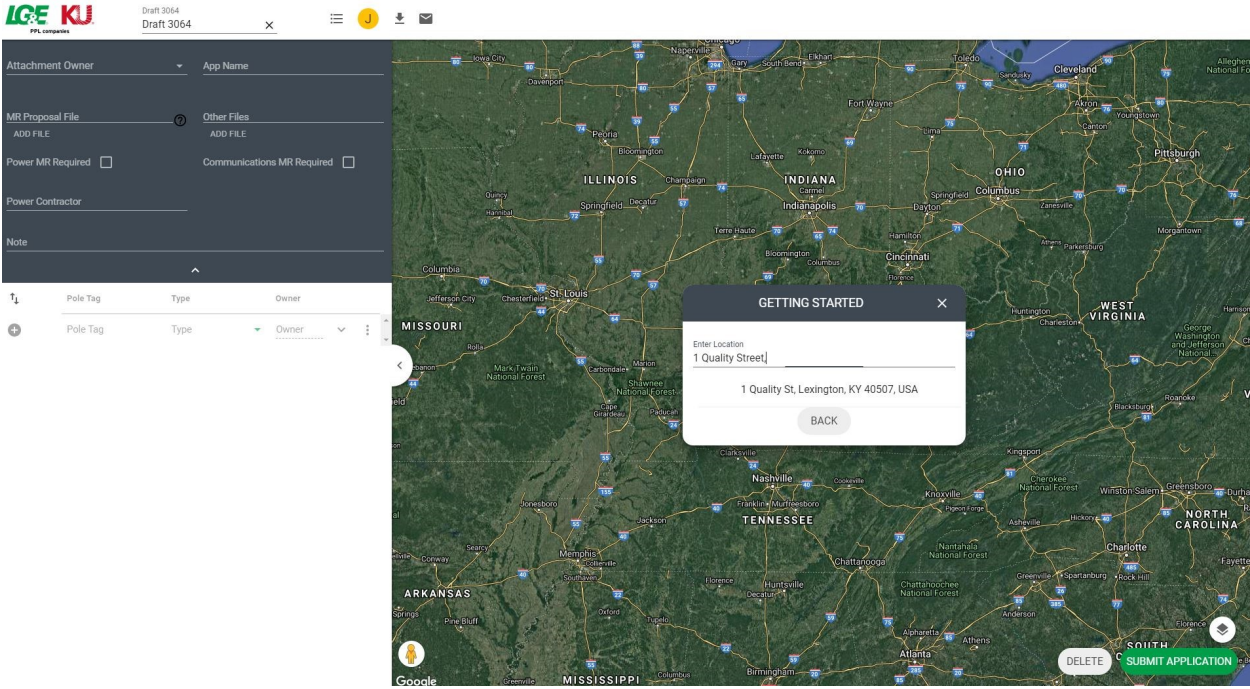
1. All pole information is provided: owner, pole number, height and class.
2. Measurements are in “feet-inches” format, not decimals.
3. Power space make-ready is called out in red text; communications space make-ready is called out in blue text.

### 3.1.1.7 Creating Applications in Katapult

1. After logging in, click the green “Create” button in the top right of the Pole Application Overview screen, and select “Attachment Application. A new application draft will load.



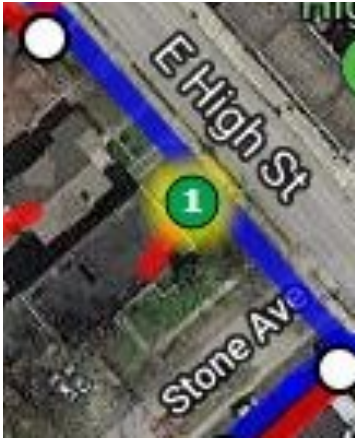
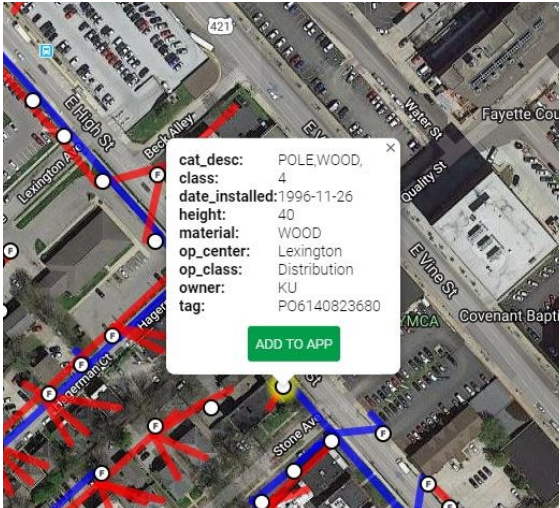
2. Determine the project’s location by searching for a pole by its 10-digit pole tag (i.e. PO1234567890), or by searching for a particular location by street address (i.e. 1 Quality Street, Lexington, KY).



3.1.1.7 Creating Applications in Katapult

- 3. The white dots represent LG&E/KU-owned poles. White dots containing an “F” are foreign-owned poles that also support LG&E/KU’s electric distribution facilities. Note that foreign-owned poles must also be included in the pole attachment application.

Select the project’s first pole by clicking it. Click “Add to App” to add it to the application. The pole will now show in green with a white number in the center, indicating its position in the application. The pole will also appear in the columns on the left side of the page.

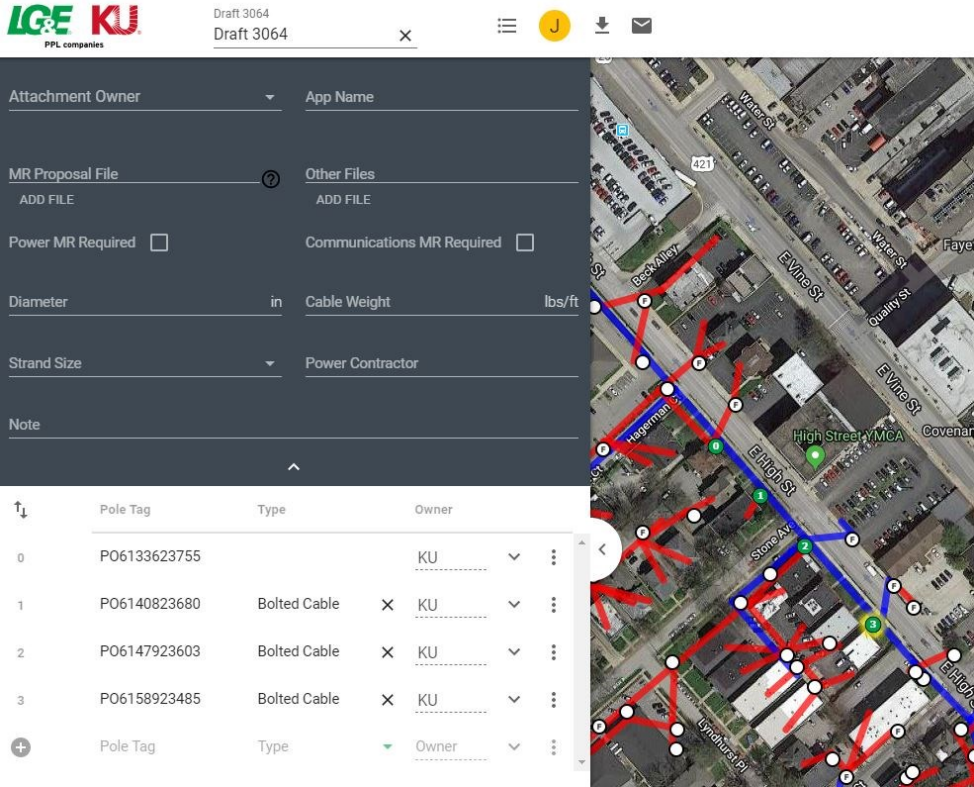


- 4. For bolted cable (through-bolt/mainline) attachments, a take-off (tie-in) pole must also be selected as “Pole 0.” This pole is not considered part of the application.

Pole Tag	Type	Owner
0	Pole Tag	Owner
1	PO6140823680	KU
+	Pole Tag	Type

### 3.1.1.7 Creating Applications in Katapult

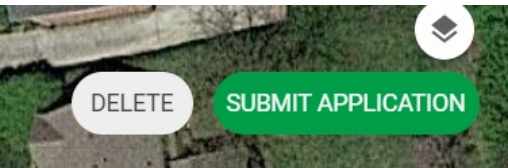
5. Continue adding poles in this way until the project’s complete route is part of the application.



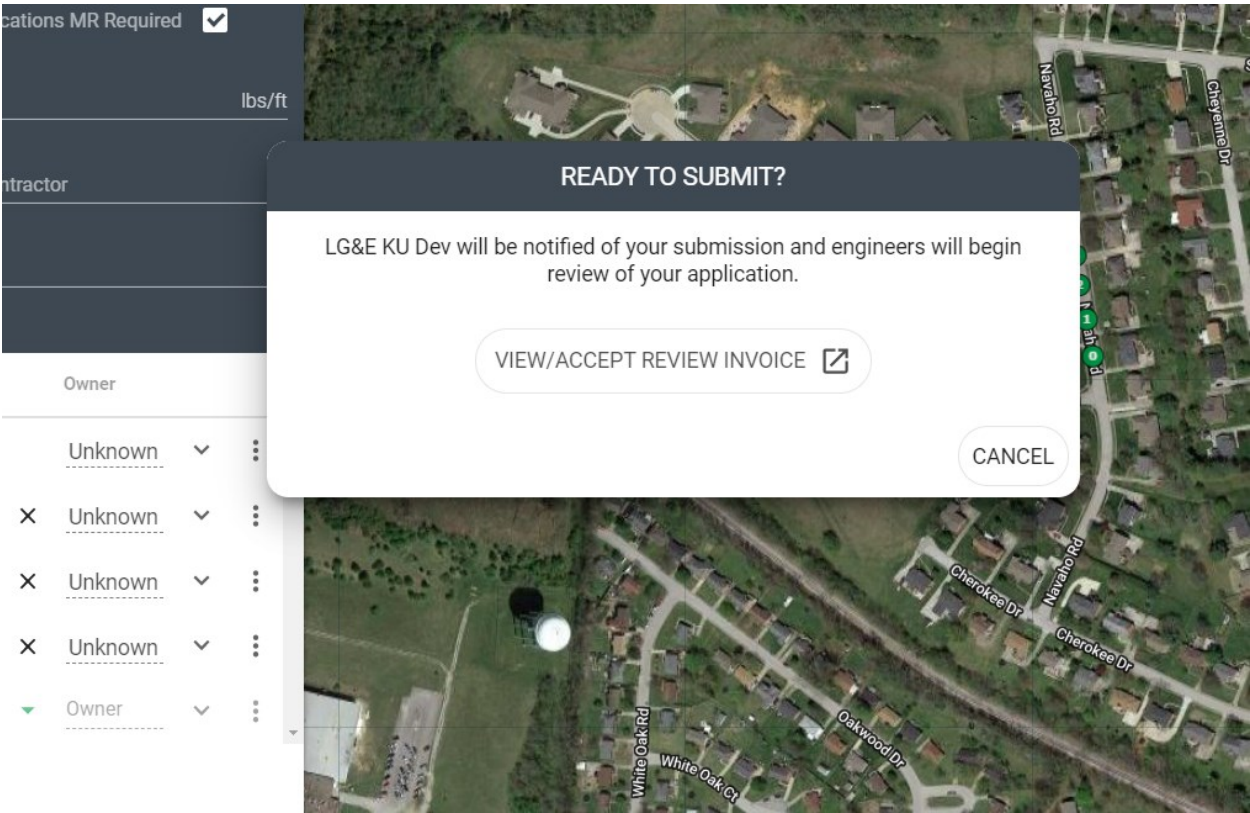
- 6. Provide appropriate application information in the gray box in the top left part of the screen.
  - a. Select the Attachment Owner from the drop down.
  - b. Add an “App Name.” This must include the nearest street address for the route.
  - c. Upload a MR Proposal File. This is required for all applications. If an application does not require make-ready, use this field to upload the pole photos.
  - d. (Optional) Upload additional files in the “Other Files” field.
  - e. Select whether Power MR and Communications MR is required by checking the boxes.
  - f. Provide information about the attachments in the “Diameter,” “Cable Weight,” and “Strand Size” fields.
  - g. (Optional) Use the “Note” field to provide any additional information (i.e. application priority, anticipated delays, etc.).

### 3.1.1.8 Application Review Charges

1. LG&E/KU charges a per-pole application review fee in conjunction with each attachment application. The fee captures LG&E/KU’s costs associated with the application, a make-ready survey, engineering analysis, LG&E/KU’s review of the application, and a post-construction inspection. LG&E/KU will periodically review the amount of the fee.
2. Prior to submitting an application, the Attachment Customer must agree to pay the application review fee by electronically signing a form in Katapult. Once signed, the document can be accessed later in the “Other Files” field of the application.
3. The Attachment Customer must follow the instructions for submitting payment that are located on the form. Failure to do so may result in delays in reviewing the application.



Click the green button to view and accept the Application Review Invoice.



Follow the link to view and accept the Application Review Invoice, and then to submit the application. An example appears on the next page.

KENTUCKY UTILITIES  
APPLICATION REVIEW INVOICE

Attachment Customer: TestCompany

Application Name: Application123

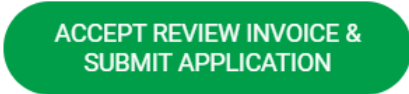
Application Number: 300531

Amount of review fee: \$195

Pursuant to Kentucky Utilities' (the "Company's") Pole and Structure Attachment Rate Schedule contained in its Tariff, Attachment Customer is responsible for all costs associated with the application. By submitting the above-referenced application, Attachment Customer agrees to pay the stated review fee to Company for Company's review of the application. This fee includes performance of a Make Ready Survey, engineering analysis, and one post-construction inspection.

Attachment Customer acknowledges that this amount is non-refundable. Attachment Customer acknowledges that it is responsible for any additional costs related to this application that Company may incur, including pole loading analysis, make-ready construction, and post-construction inspections beyond those included in the review fee.

Signature  
M. Wiley



**Payment Instructions**

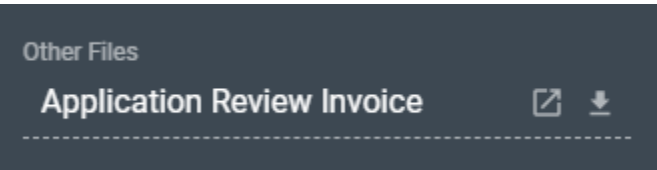
Company may not begin reviewing this application until payment of the above fee is received. **To avoid delays in reviewing this application, please send a hard copy of this accepted Application Review Invoice in the same envelope with your payment and reference the application number on your payment.**

Application Number: 300531

Remit payment to:  
KENTUCKY UTILITIES  
ATTN: CASH REMITTANCE  
THIRD PARTY - MAKE READY  
820 WEST BROADWAY  
LOUISVILLE, KY 40202

For Office Use Only:  
Operations Center: Shelbyville Project # LE256 Task # LE Exp Org 012560 \$ 195

An example of the Application Review Invoice. To accept, type a name on the "Signature" line and click the green "Accept Review Invoice and Submit Application" button.



Once accepted, the Application Review Invoice is accessible from the Other Files field.

## **3.1 Wireline Attachment Process**

### **3.1.2 Review**

#### **3.1.2.1 Completeness of Application**

1. LG&E/KU will not review applications with missing or inaccurate contents. Please see Section 3.1.1.4 Application Contents above.
2. LG&E/KU may require that a pole loading study be submitted for particular poles within an application.
  - a. In this event, the application will not be considered complete until the pole loading study is submitted.
  - b. In order to avoid potential delays in the event that LG&E/KU determines that a pole loading is determined to be necessary, Attachment Customers are free to submit a pole loading study without first being notified by LG&E/KU that one is necessary.

#### **3.1.2.2 Review of Application**

1. LG&E/KU will review the application to ensure the proposed attachment does not threaten worker safety or LG&E/KU's provision of safe and reliable energy.
  - a. LG&E/KU will verify that the proposed design complies with relevant provisions of the NESC as well as LG&E/KU's Construction and Safety standards and practices.
2. If make-ready or a pole replacement is required, LG&E/KU will also review the proposed make-ready solution or new pole design.

#### **3.1.2.3 Resubmitting per Revisions**

1. When LG&E/KU determines that an application requires substantial revision in order to be approved, LG&E/KU may require the Attachment Customer to resubmit the application with revisions. The Attachment Customer will receive notification of this status change, and the application will indicate the status on the application page in Katapult. Examples of the notification and the status change appear on the following page.

### 3.1.2.5 Resubmit Per Revisions Notification and Status Change


 Thu 10/31/2019 3:08 PM  
 LG&E KU <info@katapultengineering.com>  
 TestCompany - APP\_300340 - "Colfax St - 987546" - Status Set to Resubmit Per Revisions  
 To  Wiley, Megan;  Lafollette, John  
 Cc  Wiley, Megan

EXTERNAL email. STOP and THINK before responding, clicking on links, or opening attachments.

[megan.magallon@lge-ku.com](mailto:megan.magallon@lge-ku.com),

TestCompany's application APP\_300340 - "Colfax St - 987546" has been set to the Resubmit Per Revisions status.

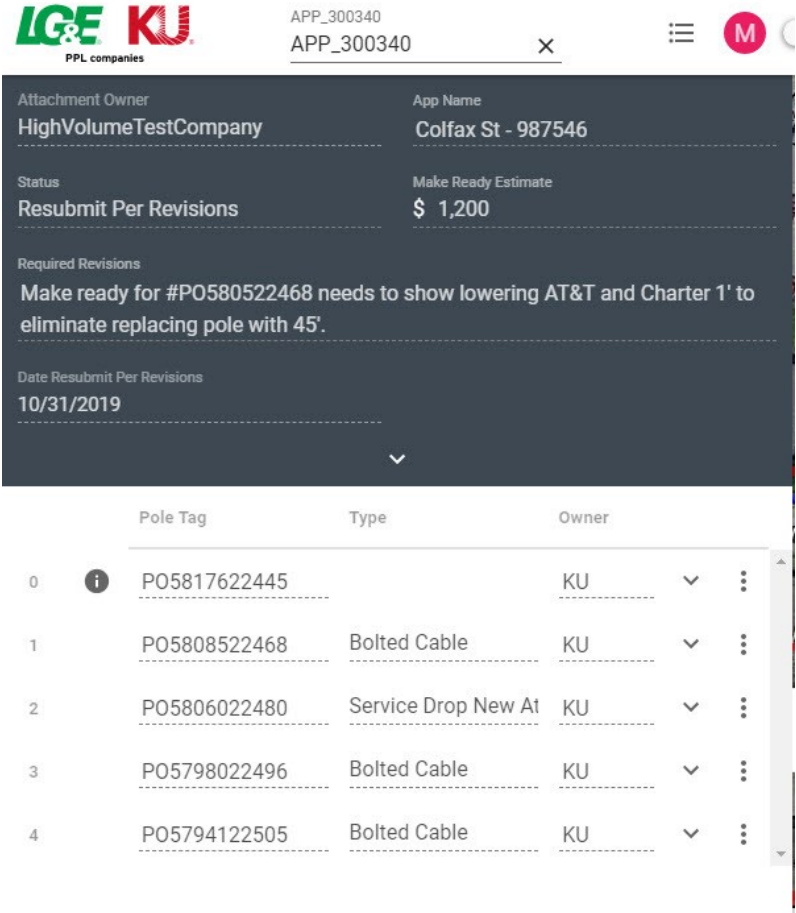
Make ready for #PO580522468 needs to show lowering AT&T and Charter 1' to eliminate replacing pole with 45'.


The application can be accessed at [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_lge.katapultwebservices.com\\_pole-2DApplication\\_-23-2DLfzbg9DL-5FjHYSroC7Q0&d=DwlCaQ&c=iEwGMvhtnq\\_9hwvJl6TOPA&r=pDdDb3qPEbDKjb6N9-zoe8ze1XNWxbwimSuOjxOLKc&m=7DpoblDcE3O56cfdD0e1Mya\\_eqDa6gvC4UqjzAE3i&s=qvDJl8qSjB95DxaW1Avtx8eDd4stTBjlcG6C42GdU&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A_lge.katapultwebservices.com_pole-2DApplication_-23-2DLfzbg9DL-5FjHYSroC7Q0&d=DwlCaQ&c=iEwGMvhtnq_9hwvJl6TOPA&r=pDdDb3qPEbDKjb6N9-zoe8ze1XNWxbwimSuOjxOLKc&m=7DpoblDcE3O56cfdD0e1Mya_eqDa6gvC4UqjzAE3i&s=qvDJl8qSjB95DxaW1Avtx8eDd4stTBjlcG6C42GdU&e=)

Let us know if you have any questions,


LG&E KU

The email notification indicating the "Resubmit Per Revisions" status.




 APP\_300340  
 APP\_300340

Attachment Owner	App Name
HighVolumeTestCompany	Colfax St - 987546
Status	Make Ready Estimate
Resubmit Per Revisions	\$ 1,200
Required Revisions	
Make ready for #PO580522468 needs to show lowering AT&T and Charter 1' to eliminate replacing pole with 45'.	
Date Resubmit Per Revisions	
10/31/2019	

	Pole Tag	Type	Owner		
0	 P05817622445		KU	▼	⋮
1	P05808522468	Bolted Cable	KU	▼	⋮
2	P05806022480	Service Drop New At	KU	▼	⋮
3	P05798022496	Bolted Cable	KU	▼	⋮
4	P05794122505	Bolted Cable	KU	▼	⋮

The application page showing the "Resubmit Per Revisions" status.

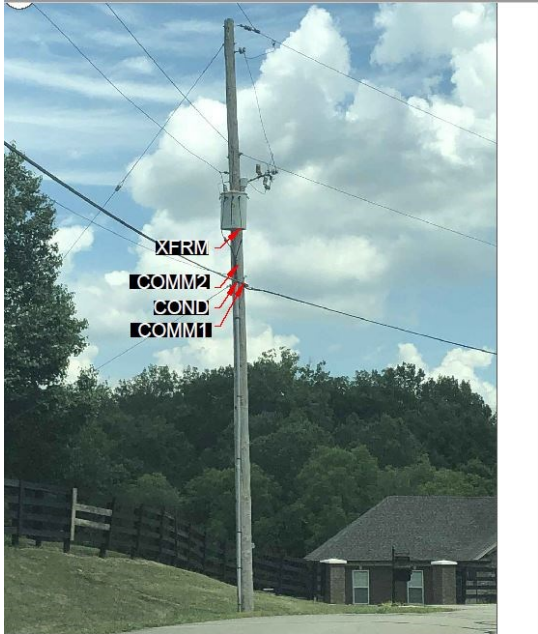
**3.1 Wireline Attachment Process**

**3.1.3 Supply Space Make-Ready**

**3.1.3.1 Common Examples**

1. Common examples of make-ready solutions in the supply space include:
  - a. Raise conductor/transformer
  - b. Raise streetlight
  - c. Tighten drip loop
  - d. Re-sag conductor
  
2. When these solutions do not create enough clearance, the pole must be replaced.

**3.1.3.2 Make-Ready Notes Examples**



POLE NOTES			
POLE NUMBER			32
OWNER			LG&E
TAG #			N.T.
SIZE			
LOWEST POWER			PRI @ 38'-0" NEU @ 30'-0" 1-WIRE SEC @ 28'-4" TOP XFRM @ 27'-0" BTM XFRM @ 25'-0" SEC COND @ 22'-0"
ST LT/FL LT			
NEW COMM 2			ATTACH @ 22'-5"
COMM 1			21'-5"
LG&E MAKE READY			RAISE XFRM ABOVE NEU REPLACE SEC LATERAL

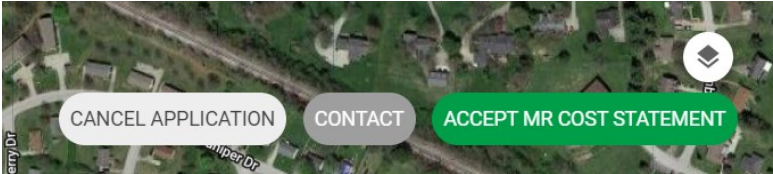
Acceptable forms of proposed supply space make-ready solutions.

**3.1.3.3 Performance and Cost Allocation**

- 1. LG&E/KU performs supply space make-ready.
- 2. The Attachment Customer is responsible for all make-ready costs incurred by LG&E/KU.

**3.1.3.4 Statement and Acceptance of Costs**

- 1. LG&E/KU will provide a statement of costs for supply space make-ready through Katapult.
- 2. Katapult will direct the Attachment Customer to an online Statement of Power Space Make-Ready Construction Cost form for review and acceptance.
- 3. To accept the costs, the Attachment Customer must digitally sign and submit the form. Once signed, Katapult will advance the application into the “Statement of Cost Accepted” status, and a copy of the signed form is saved in the “Other Files” field.



Click the green button to view and accept the Make-Ready Cost Statement.



Follow the link to view and accept the Make-Ready Cost Statement. An example appears on the next page.

**KENTUCKY UTILITIES  
STATEMENT OF POWER SPACE MAKE-READY CONSTRUCTION COST**

Attachment Customer: TestCompany

Application Name: Application123

Application Number: 300531

Cost: \$1075      Date: 11/20/2019      Estimate valid until: 12/05/2019

This statement of cost is for make-ready construction to be completed by KENTUCKY UTILITIES (the "Company") to safely accommodate the attachment request contained in the attachment application referenced above. This estimate is valid until the date specified above, after which the estimated cost is subject to change.

Attachment Customer acknowledges that all work is subject to delays due to shortage of labor and material or to other causes beyond the control of the Company.

Pursuant to the Company's Pole and Structure Attachment Rate Schedule contained in its Tariff, Attachment Customer is responsible for paying the Company the stated cost before Company is required to begin the construction. Attachment Customer hereby agrees to pay the stated cost. Company reserves the right to not begin construction until payment is received.

If the scope of work changes in such a way that necessitates additional charges, Attachment Customer agrees to pay those additional costs. Any additional costs will be billed as a final invoice after completion of the work.

Signature  
M. Wiley

**ACCEPT MR COST STATEMENT**

**Payment Instructions**

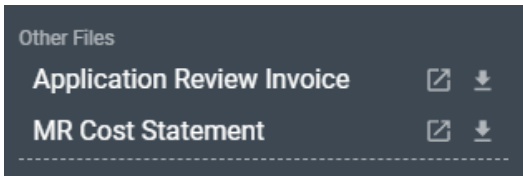
Company may not begin construction work until payment of this estimate is received. **To avoid delays in construction, please send a hard copy of this accepted statement of cost in the same envelope with your payment and reference the application number on your payment.**

Application Number: 300531

Remit payment to:  
KENTUCKY UTILITIES  
ATTN: CASH REMITTANCE  
THIRD PARTY - MAKE READY  
820 WEST BROADWAY  
LOUISVILLE, KY 40202

For Office Use Only:			
Operations Center: <u>Shelbyville</u>	Project # <u>PROJ</u>	Task # <u>TASK</u>	I-\$ <u>1000</u> R-\$ <u>75</u>
Notes about application here...	Task # _____	I-\$ _____	R-\$ _____

An example of the Make-Ready Cost Statement. To accept, type a name on the "Signature" line and click the green "Accept MR Cost Statement" button.



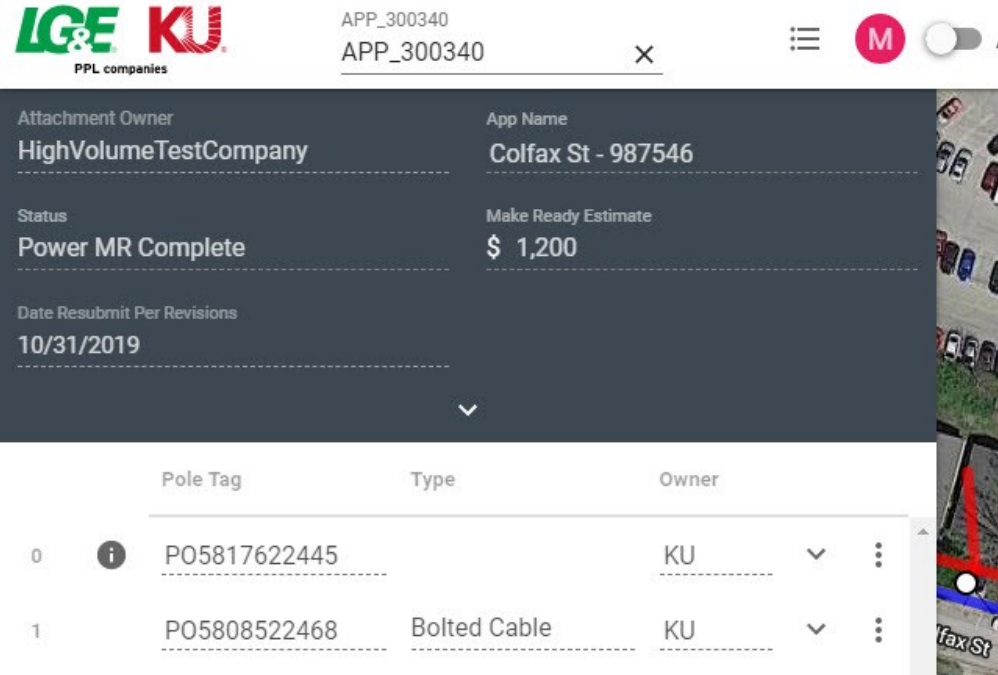
Once accepted, the Make-Ready Cost Statement is accessible from the Other Files field.

**3.1.3.5 Payment of Costs**

- 1. The Attachment Customer must follow the instructions on the Statement of Cost shown on the above form.
  - a. Attachment Customer must print the form and send it with the payment to:
    - Cash Remittance
    - Third Party—Make Ready
    - 820 West Broadway
    - Louisville, KY 40202
  - b. The form links the Attachment Customer’s payment to the specific attachment project; failure to submit the form together with the payment may lead to construction delays.

**3.1.3.6 Completion of Construction**

- 1. LG&E/KU will complete supply space make-ready construction within 60 days from receipt of payment of the costs. Occasionally (as in the event of storm restoration), it may be necessary for LG&E/KU to delay supply space make-ready construction in favor of its own construction activities.
- 2. LG&E/KU will use Katapult to indicate that construction is complete, and that the attachment project is approved to proceed to the next stages. Katapult will send the Attachment Customer a notification when construction is complete. The application status will then change to “Power MR Complete.”



The application page indicating the status change to "Power MR Complete."

**3.1 Wireline Attachment Process**

**3.1.4 Communications Space Make-Ready**

**3.1.4.1 Example of Communications Space Make-Ready notes**

1. The following is an acceptable form of communications space make-ready notes.

POLE NOTES					
POLE NUMBER	1	2	3	4	5
OWNER	LG&E	LG&E	LG&E	LG&E	NT
TAG #	35685-76898	35686-76918	35687-76927	35693-76956	NT
SIZE	45'/CL3	40'/CL3	40'/CL3	40'/CL4	35'/CL4
LOWEST POWER	DRIP LP @ 24'-4"	BTM SEC @ 29'-0"	BTM XFRM @ 23'-0"	BTM SEC @ 29'-0"	NO POWER
ST LT/FL LT		DRIP LP @ 26'-10"			
NEW ATCH	ATTACH @ 20'-0"	ATTACH @ 20'-0"	ATTACH @ 19'-0"	ATTACH @ 25'-0"	ATTACH @ 24'-6"
ATCH1	24'-4" LOWER 5'-4"				
ATCH2	22'-4" LOWER 4'-4"	18'-2"	18'-3" LOWER 3"	23'-9"	
ATCH3		19'-6" LOWER 1'-4"			
ATCH4					23'-6"
ATCH5				24'-4"	
LG&E/KU MAKE READY	RAISE XFRM ABOVE SEC REPLACE 3-W SEC W/ PAR-A-LAY TO P4		RAISE XFRM ABOVE SEC		
NEW ATCH NOTES:	START NEW BUILD	RUN SLACK SPAN TO P3	INSTALL ANCHOR & D.GUY @ 19'	INSTALL (2) ANCHORS & D.GUYS @ 25' & 22'	SLACK TO CUSTOMER INSTALL ANCHOR & D.GUY @ 20'

**3.1.4.2 Performance and Cost Allocation**

1. Attachment Customer is responsible for coordinating and ensuring the performance of third-party communications space make-ready.
2. Attachment Customer is responsible for all costs associated with communications space make-ready.

**3.1.4.3 Authority to Attach**

1. A proposed attachment is not authorized until all necessary third-party communications space make-ready has been completed.

**3.1.4.4 Notification to LG&E/KU**

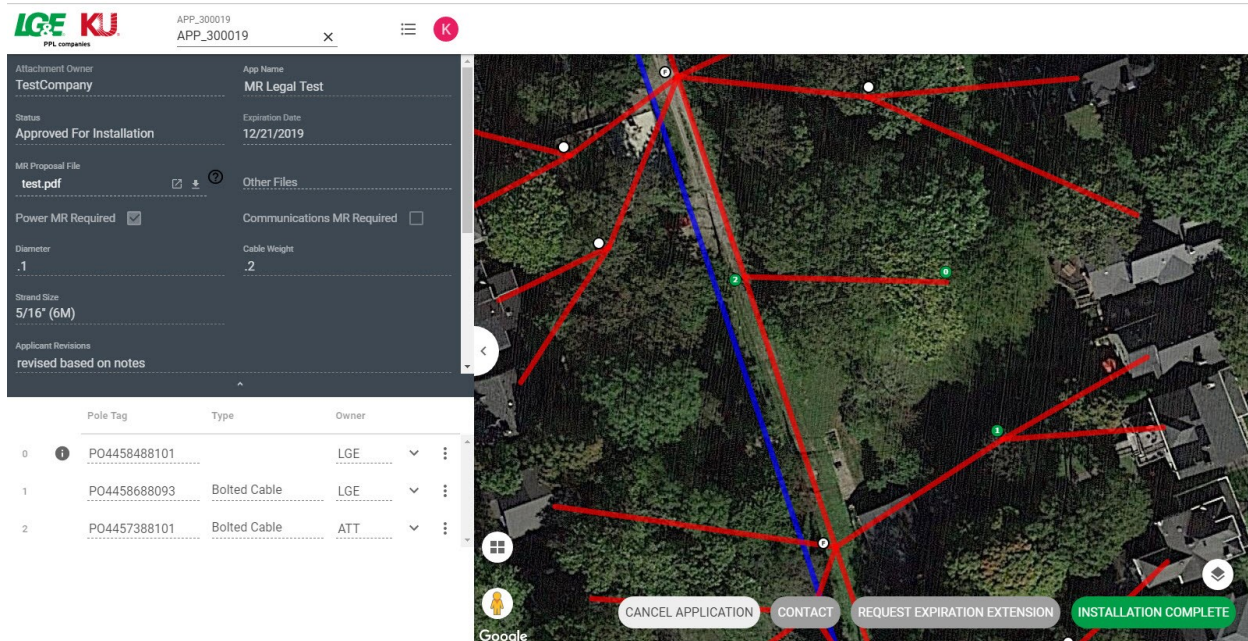
1. Attachment Customer must use Katapult to indicate completion of this work prior to LG&E/KU granting approval to proceed with installation.

### 3.1 Wireline Attachment Process

#### 3.1.5 Installation

##### 3.1.5.1 Authority to Attach

1. Attachment Customer may proceed with installing the new attachment only after LG&E/ KU has marked the application “Approved for Installation.”
2. Attachment Customer must install their attachments within 60 days from receiving the “Approved for Installation” status.



The application screen showing the “Approved for Installation” status.

##### 3.1.5.2 Personnel

1. Attachment Customer may use qualified contractors of its choice to perform this work.

##### 3.1.5.3 Safety Considerations

1. Attachment Customer’s contractors shall at all times observe and follow all applicable rules and regulations, including but not limited to, the NESC, OSHA, and LG&E/KU Construction and Safety standards and practices.
2. If field conditions differ from those contained in the approved design, the Attachment Customer must contact LG&E/KU design personnel.
3. If a pole is to be climbed, all steps must be taken to ensure that the pole is safe to climb before attempting to do so.

**3.1.5.4 Anchors and Guys**

- 1. Any required anchors and guys must be installed prior to attachment, and properly tensioned after installation. Attachment Customers may not use LG&E/KU anchors.

**3.1.5.5 Attachment Identification**

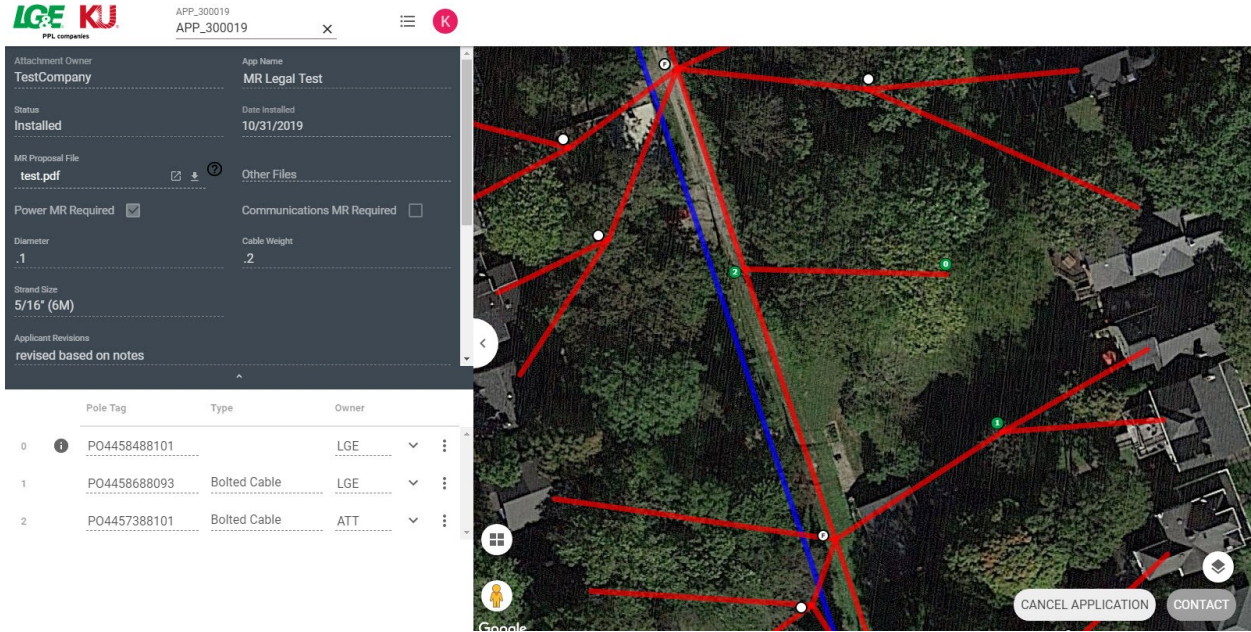
- 1. Attachments must be tagged with Attachment Customer’s identification at the time of installation.
- 2. When attachments are subsequently maintained, spliced, overlashed, or otherwise “touched,” and the attachment is not identified with a tag, Attachment Customer must tag the attachment at the time that work is performed.



Examples of acceptable identification tags.

**3.1.5.6 Notification of Completion**

- 1. Attachment Customer must notify LG&E/KU when installation is complete. Attachment Customer must use the “Installation Complete” button to change the status to “Installed.” Failure to do so may result in project cancellation and/or unauthorized attachment fees.



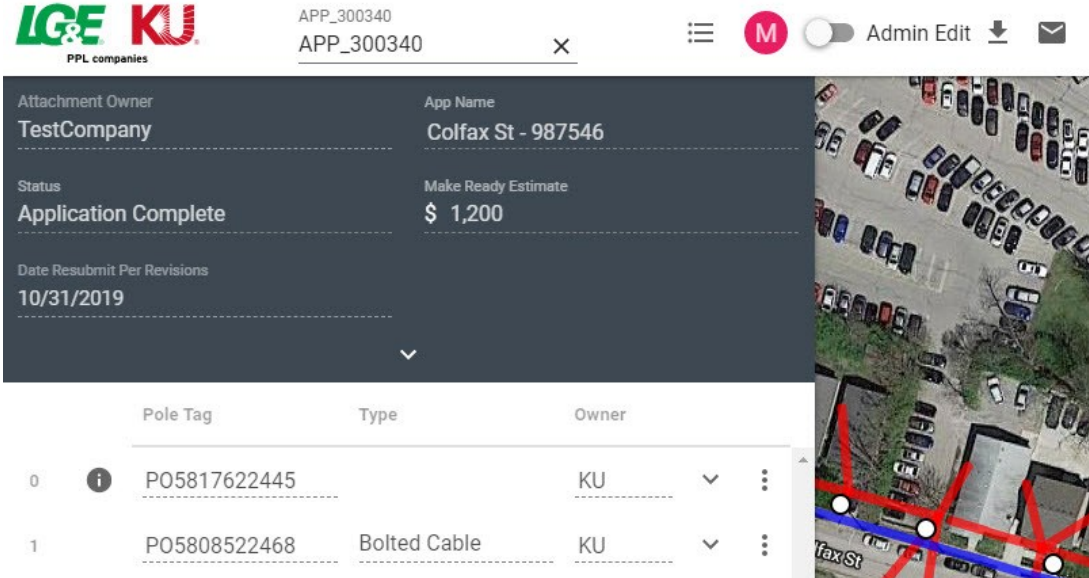
The application screen showing the “Installed” status.

### 3.1 Wireline Attachment Process

#### 3.1.6 Inspection

##### 3.1.6.1 Post-Construction Inspection

1. LG&E/KU will perform a post-construction site visit and inspection to confirm that the installation matches the approved design.
  - a. Following this confirmation, LG&E/KU will classify the project as complete and record the new attachments for billing. Katapult will provide a notification that the application is complete. This step concludes the attachment process.
  - b. If the installation does not match the approved design, LG&E/KU will change the application status to “Installation Defect Detected” in Katapult, and contact the Attachment Customer about how to correct the unsafe installation



The application screen showing the “Application Complete” status.

##### 3.1.6.2 Other Inspections

1. LG&E/KU has the ongoing right to inspect its structures and identify safety concerns. Please refer to Section 5.1 Unsafe Attachments for more discussion of this topic.

## **3.2 Wireless Attachment Process**

### **Overview**

This section describes the process for attaching wireless facilities to LG&E/KU-owned poles. LG&E/KU has requirements regarding the type of structures to which wireless facilities may be attached, and different processes surrounding each. While the application, review, and make-ready processes essentially track those in the wireline attachment process above, there are some differences. This section also describes the steps for connecting electric service to wireless facilities.

### **Section Outline**

#### **3.2.1 Definition and Project Types**

#### **3.2.2 Process for Poles with Power**

##### **3.2.2.1 Structure Selection**

##### **3.2.2.2 Site Selection**

##### **3.2.2.3 Application**

##### **3.2.2.4 Service Feasibility Review**

##### **3.2.2.5 Design Review**

##### **3.2.2.6 Supply and Communications Space Make-Ready**

##### **3.2.2.7 Installation of Wireless Facilities**

##### **3.2.2.8 Electric Service Connection**

#### **3.2.3 Process for Customer-Owned Poles and Poles without Power**

##### **3.2.3.1 Service Feasibility Review**

##### **3.2.3.2 Construction**

##### **3.2.3.3 Electric Service Connection**

## 3.2 Wireless Attachment Process

### 3.2.1 Definition and Project Types

#### 3.2.1.1 Definition of Wireless Facilities

1. “Wireless Facility” means, without limitation, antennas, risers, transmitters, receivers, and all other associated equipment used in connection with Attachment Customer’s provision of wireless communications services and the transmission and reception of radiofrequency signals, but shall not include power supplies, equipment cabinets, meter bases, and other equipment that impedes accessibility or that conflicts with Company’s electric design and construction standards.

#### 3.2.1.2 Project Types

1. **Poles with Power (referred to as the “Third Party Process”).** Attachment Customers must submit wireless attachment applications for all poles supporting LG&E/KU’s electric distribution facilities, even if they are owned by another entity (i.e. a joint use pole with LG&E/KU’s facilities attached).
2. **Customer-owned Poles and other Poles without Power (referred to as the “New Business Process”).** For poles owned by the Attachment Customer, or for poles not supporting LG&E/KU’s electric distribution facilities, the Attachment Customer must only sign up for electric service.
  - a. The Attachment Customer should not submit an attachment application. If an attachment application is submitted, LG&E/KU will not refund any review fees.
  - b. To sign up for electric service, contact LG&E/KU using the information in Chapter 7, Contact Methods.

## **3.2 Wireless Attachment Process**

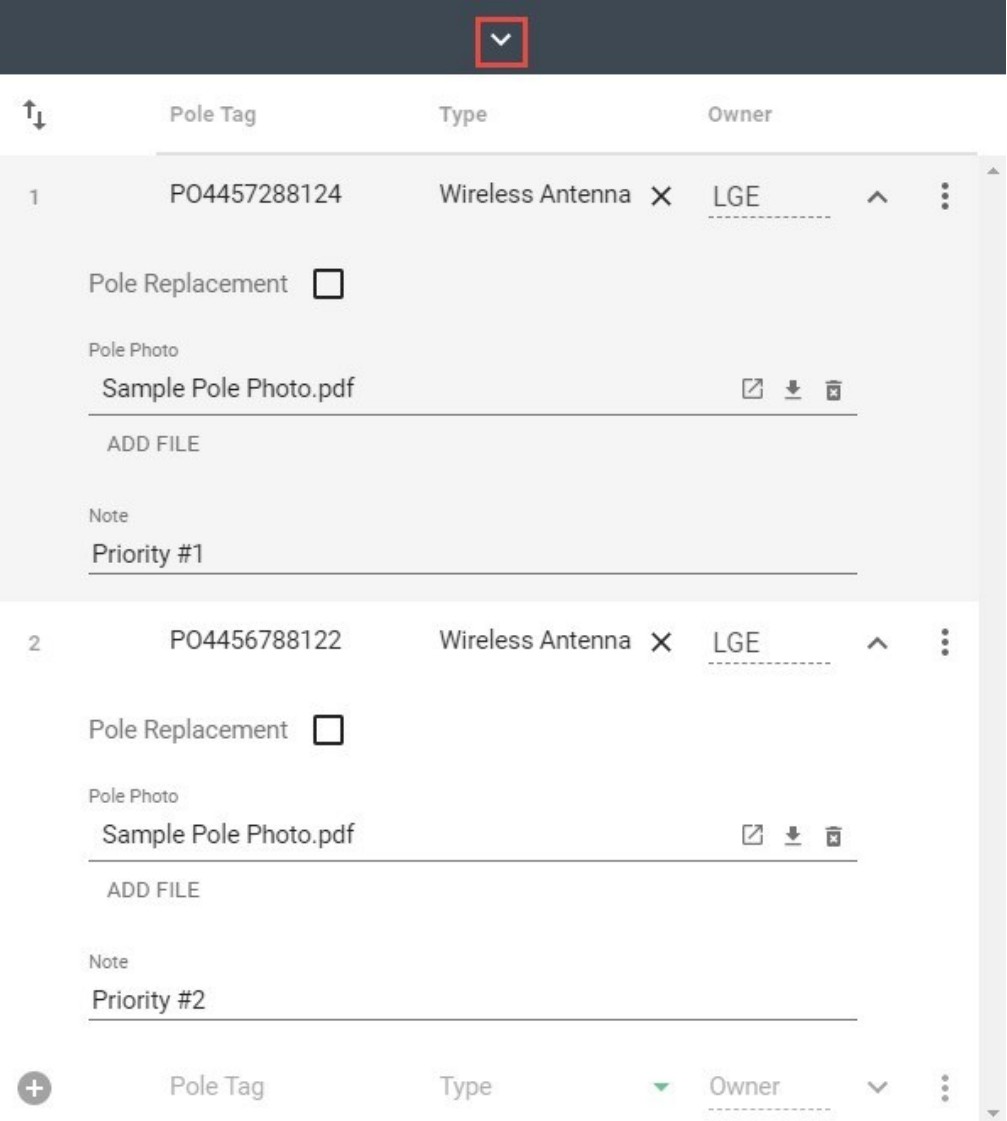
### **3.2.2 Process for Poles with Power (Third Party Process)**

#### **3.2.2.1 Structure Selection**

1. LG&E/KU requires Attachment Customers to prioritize structures for colocation based on the safety and reliability risks posed by attaching wireless facilities to each. Attachment Customers must select structures in the following order.
  - a. Poles used to anchor a span (guy poles), streetlight-only wood poles, service poles.
  - b. Secondary poles with a side-mount antenna mount design
  - c. Primary poles with a side-mount antenna mount design
2. LG&E/KU does not permit attachment to non-wood streetlight poles.
3. LG&E/KU does not permit equipment cabinets or meter bases to be attached to LG&E/KU-owned poles .

### 3.2.2.2 Site Selection

1. Site selection is processed through the Katapult application.
  - a. Katapult displays LG&E/KU’s electric distribution facilities, which indicates how a site could be served with energy. Attachment Customers are encouraged to use this resource in selecting poles for colocation. Please refer to Section 3.2.2.4 Service Feasibility Review below for more information.
  - b. Attachment Customers may submit up to three poles per node/antenna site. These should be numbered according to the Attachment Customer’s priority.
2. A wireless attachment review fee is owed per pole included in the application.



Site selection in Katapult showing priority numbers for each location.

### **3.2.2.3 Applications**

1. The attachment process for wireless attachment applications is essentially the same as for wireline attachment applications. All application materials must be submitted through Katapult.
2. In addition to the information listed in Section 3.1.1.4 Application Contents above, Attachment Customers must submit the following information for wireless attachment applications:
  - a. Manufacturer's equipment specifications for antennas, power supply, disconnect, and radio units
  - b. Pole loading analysis
  - c. Expected and maximum energy usage of antennas
3. Please refer to Chapter 7, Standards below for acceptable wireless attachment designs.

### **3.2.2.4 Service Feasibility Review**

1. LG&E/KU will determine whether the site can be feasibly served with energy.
2. If the Attachment Customer's first choice cannot be feasibly served, LG&E/KU will determine the best available option.
3. At this time, LG&E/KU will determine whether the electric service will be metered or unmetered.

### **3.2.2.5 Design Review**

1. Please refer to Section 3.1.2 Review above.

### **3.2.2.6 Supply and Communications Space Make-Ready**

1. Please refer to Sections 3.1.6 Supply Space Make-Ready and 3.1.7 Communications Space Make Ready above.

### **3.2.2.7 Installation of Wireless Facilities and Responsibilities**

1. Construction above the communications space must be performed by an LG&E/KU Approved Contractor who is accompanied by an LG&E/KU-designated inspector.
  - a. Attachment Customer must contact LG&E/KU at least 15 days prior to the proposed installation date to schedule an inspector.
2. Please refer to Chapter 7, Standards below for further construction details.

### 3.2.2.8 Installation of Wireless Facilities and Responsibilities

3. For metered service, the Attachment Customer is responsible for installing the following:
  - a. Antenna and associated equipment; and
  - b. Wire and conduit from the antenna to the disconnect.
4. For unmetered service, the Attachment Customer is responsible for installing the following:
  - a. Antenna and associated equipment;
  - b. Wire and conduit from antenna to disconnect;
  - c. Wire and conduit from power supply to a weatherhead one-foot below secondary.
5. Please refer to Chapter 7, Standards below for more installation details.

### 3.2.2.8 Electric Service Connection

1. For metered service, the Attachment Customer should request electric service at that location by contacting LG&E/KU. The Attachment Customer may do so any time after receiving approval of a site location. Please refer to Chapter 7, Contact Methods below for contact details.
2. For unmetered service, LG&E/KU will coordinate the electric service connection with the Attachment Customer.
3. The Attachment Customer must ensure that the site address provided to Customer Service is as close in proximity to the site location as possible. The Attachment Customer should retain the “Case Number” provided by Customer Service.
4. Perform all electrical wiring at site using licensed electrician. When applying for an electrical permit from the local inspection authority, ensure that the electrician uses the same site address provided to Customer Service. Failure to do so may lead to delays.
5. The Attachment Customer must submit a load sheet to LG&E/KU for any site that will have a meter.
6. The Attachment Customer must have the electrical wiring inspected by the local inspection authority. LG&E/KU will not connect service until receiving notification that the inspection is “passed.”
7. When the above steps have been completed, LG&E/KU will install the meter and/or connect electric service to the site. LG&E/KU will not install a meter or connect electric service unless all steps have been completed.

## **3.2 Wireless Attachment Process**

### **3.2.3 Process for Customer-owned Pole (New Business Process)**

#### **3.2.3.1 Service Feasibility Review**

1. LG&E/KU will determine whether the site can be feasibly served with energy.
2. The Attachment Customer should contact LG&E/KU design personnel to inquire about service feasibility at a particular site location. LG&E/KU will not evaluate service requests until the site has received all other necessary approval, including but not limited to the pole owner and right-of-way owner. Please use the contact methods contained in Chapter 7, Contact Methods below.

#### **3.2.3.2 Construction**

1. LG&E/KU is not involved in the construction or installation of the wireless attachment facilities.

#### **3.2.3.3 Electric Service Connection**

1. LG&E/KU will coordinate the electric service connection with the Attachment Customer.
2. The Attachment Customer must ensure that the site address provided to LG&E/KU is as close in proximity to the site location as possible. The Attachment Customer must retain the “Case Number” provided by Customer Service.
3. Perform all electrical wiring at site using licensed electrician. When applying for an electrical permit from the local inspection authority, ensure that the electrician uses the same site address provided to Customer Service.
4. The Attachment Customer must submit a load sheet to LG&E/KU for any site that will have a meter.
5. The Attachment Customer must have the electrical wiring inspected by the local inspection authority. LG&E/KU will not connect service until receiving notification that the inspection is “passed.”
6. When the above steps have been completed, LG&E/KU will install the meter and/or connect electric service to the site. LG&E/KU will not install a meter or connect electric service unless all steps have been completed.

### **3.3 Transmission Structure Attachment Process**

#### **Overview**

This section describes the unique aspects of attaching wireline facilities to LG&E/KU-owned Transmission structures. Transmission structures are critical infrastructure, and LG&E/KU limits attachment access to them in order to ensure system reliability. While the attachment process is identical to that outlined in Section 3.1 Wireline Attachment Process, LG&E/KU's Transmission Department provides an additional review and manages any make-ready that is necessary.

#### **Section Outline**

- 3.3.1 Structures Available for Attachment**
- 3.3.2 Application Requirements**
- 3.3.3 Review**
- 3.3.4 Supply Space Make-Ready and Pole Replacements**

### **3.3 Transmission Structure Attachment Process**

#### **3.3.1 Structures Available for Attachment**

##### **3.3.1.1 Operating Voltage**

1. LG&E/KU does not permit attachment to Transmission poles with electric supply lines operated at 138kV or above.

##### **3.3.1.2 Distribution Underbuild**

1. For Transmission poles with electric lines operated at less than 138kV, LG&E/KU only permits attachment if those poles also support electric lines operated at less than 69kV. Such a pole is frequently referred to as a “Transmission pole with distribution underbuild.”

### **3.3 Transmission Structure Attachment Process**

#### **3.3.2 Application Requirements**

##### **3.3.2.1 Applications in General**

1. The attachment process for wireless attachment applications is essentially the same as for wireline attachment applications. All application materials must be submitted through Katapult.
2. In addition to the information listed in Section 3.1.1.4 Application Contents above, Attachment Customers must submit the following:
  - a. A pole loading analysis that conforms to the special requirements of this section 3.3.2 Application Requirements.
  - b. Evidence of a private easement when necessary. See Section 3.3.3.2 Notes on Design for more information.

##### **3.3.2.2 Performance of Pole Loading Analysis**

1. The pole loading analysis and reporting must be developed and performed under the direction of a professional engineer licensed by the state in which the structure is located. The engineer directing the analysis and reporting must stamp the analysis when complete.
2. LG&E/KU has approved the following engineering consultants to perform the pole loading analysis:
  - a. Black and Veatch. 11401 Lamar Ave. Overland Park, KS.
  - b. Burns and McDonnell. 9400 Ward Parkway Kansas City, MO.
  - c. Power Engineers. P.O. Box 1066 Hailey, ID.
  - d. Sargent and Lundy. 55 East Monroe Street Chicago, ILLG&E/KU may approve other consultants upon request.
3. The pole loading analysis must be performed using the PLS-POLE software by Power Line Systems, Inc.

### 3.3.2.3 Pole Loading Criteria

1. The pole loading analysis must be performed using the following codes and standards:
  - a. NESC 2012, or latest edition.
  - b. ANSI 05.1-2008 Specifications and Dimensions for Wood Poles, or latest edition.
  - c. LG&E and KU Vertical Clearance Requirements between LG&E and KU facilities and non-LG&E and KU communication facilities Standards Codes and Standards revision D, or latest edition.
2. The pole loading analysis must be performed for the following load conditions:
  - a. NESC 250B – Heavy ½” radial ice, 4 PSF wind at 0 degrees F.
  - b. NESC 250C – 21 PSF Extreme wind at 60 degrees F.
  - c. NESC 250D – Concurrent Ice/Wind with ¾” radial ice, 2.30psf wind at 15 degrees F.
  - d. The analysis must use Grade B construction standards.
3. The pole loading analysis must apply the following pole strength reductions:
  - a. 5 - 12 years:       0 - 0.5%
  - b. 13 - 30 years:     .5 - 2.0%
  - c. 21 - 80 years:     2.0 - 6.0%
  - d. Note: interpolation is allowed.
4. LG&E and KU will provide conductor and cable information, including diameter, weight, and tension.
  - a. If unavailable, the maximum tension under heavy loading must not exceed 60% RBS of conductor or messenger as appropriate.

### 3.3.2.4 Reporting

1. Attachment Customers must submit a report of the pole loading analysis, as well as all analysis files, as part of their application.
2. The report must include the following:
  - a. Structure number (when available)
  - b. Structure type (i.e. tangent, angle, etc.)
  - c. County and/or city where structure is located
  - d. Pole height and class
  - e. State Plan Coordinates for each structure
  - f. Digital photo for each structure
  - g. Field survey used to determine locations of existing and proposed communications attachments.
  - h. Description of all conductors and cables used in the analysis
  - i. PLS-CADD wire files for proposed cables.

### **3.3 Transmission Structure Attachment Process**

#### **3.3.3 Review**

##### **3.3.3.1 Transmission Department Review**

1. LG&E/KU's Transmission Department will review all applications for attachment to Transmission structures. Attachment to a Transmission structure is not permitted until LG&E/KU's Transmission Department provides specific approval of the proposed attachment.

##### **3.3.3.2 Notes on Design**

1. When a new attachment is made to a Transmission structure, the structure must be brought into compliance with current codes and standards. Many Transmission structures were last analyzed before the requirement of the heavy loading case described in Section Pole Loading Criteria, and will therefore need to be reinforced or replaced before any new attachments will be permitted.
2. LG&E and KU plan to eventually replace wood poles supporting supply lines operating at 69kV and 138kV, and Attachment Customers must be prepared to relocate their attachments at that time.
3. The attachment height of primary and neutral distribution facilities may not be changed to accommodate a proposed attachment. Other supply space make-ready may be achievable.
4. LG&E and KU's Transmission routes typically traverse private easements. On such routes, LG&E and KU require evidence of an Attachment Customer's property rights before LG&E and KU will permit any attachments.

### **3.3 Transmission Structure Attachment Process**

#### **3.3.4 Supply Space Make-Ready and Pole Replacements**

##### **3.3.4.1 Supply Space Make-Ready**

1. Except for supply space make-ready above distribution facilities, the supply space make-ready process will follow the process set out in section 3.1.3 Supply Space Make-Ready.
2. For supply space make-ready above distribution facilities, or for reinforcing a structure, LG&E and KU's Transmission Department will perform all construction work. LG&E and KU will coordinate with the Attachment Customer regarding make-ready construction costs and scheduling. The Attachment Customer is responsible for all costs associated with construction.

##### **3.3.4.2 Pole Replacements**

1. When safely accommodating the proposed attachment requires replacing a Transmission structure, LG&E and KU's Transmission Department will perform all construction work. LG&E and KU will coordinate with the Attachment Customer regarding make-ready construction costs and scheduling. The Attachment Customer is responsible for all costs associated with construction.

### 3.4 Duct Attachment Process

#### Overview

LG&E permits Attachment Customers to install communications facilities in LG&E's underground electric distribution system. KU has a smaller underground network and does not currently have capacity to accommodate similar installations.

LG&E's process for accepting, reviewing, and approving installation requests is set out in a Duct Access Process document, managed by LG&E's Underground Network Department. LG&E does not permit installations without express written approval from the Underground Network Department. They can be contacted at [FiberRequest@lge-ku.com](mailto:FiberRequest@lge-ku.com).

## **4. Attachments Not Requiring an Application**

### **Overview**

This chapter establishes the parameters for making attachments to LG&E- and KU-owned structures without first submitting an attachment application. Both overlashing and service drops may be installed with forms of notice, depending on the circumstances. This chapter explains how to do so.

### **Chapter Outline**

**4.1 Overlashing**

**4.2 Service Drops**

**4.3 Certifying Notice**

**4.1 Overlashing**

**4.1.1 Treatment for Billing**

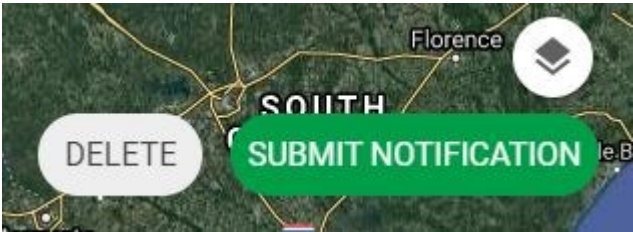
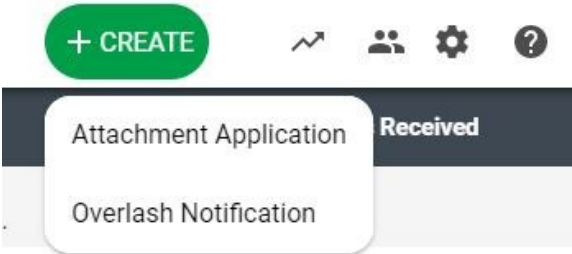
- 1. An overlash is not considered a separate attachment for billing purposes.

**4.1.2 Notice Requirement**

- 1. An Attachment Customer must provide advanced notice of all overlashing except in the following circumstances:
  - a. An Attachment Customer may make an initial overlash of an existing attachment if the overlash is not greater than one-half inch in diameter.
- 2. An overlash notice must include the following information:
  - a. Pole route of the overlash
  - b. Size of the new cable
  - c. Total bundle size with proposed new overlash cable included
  - d. Heights of existing attachments

**4.1.3 Form of Notice**

- 1. Notice must be provided using Katapult. Instead of creating an attachment application, the Attachment Customer must create an “Overlash Notification.” Follow the instructions in Section Creating a Katapult Application to create and submit the Overlash Notification.



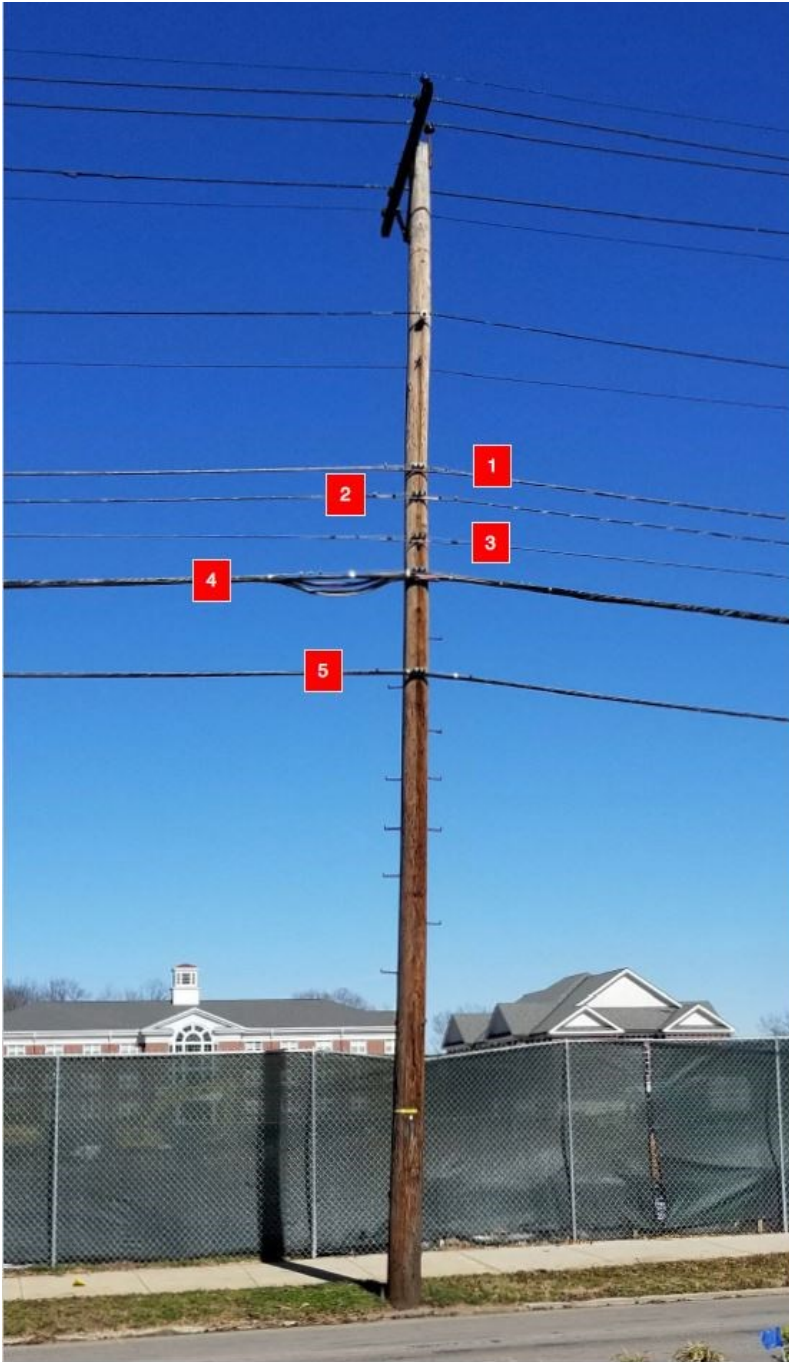
**4.1.4 Notice Periods**

1. For projects involving 10 spans or fewer, the Attachment Customer must provide at least seven business days' advance notice.
2. For projects involving more than 10 spans, the Attachment Customer must provide at least 15 business days' advance notice.

**4.1.5 Conditions of Overlash**

1. LG&E/KU may require the Attachment Customer to submit a pole loading analysis prior to the overlash being performed.
2. When overlash to a cable in the top position that does not meet necessary clearance requirements, make-ready must be performed prior to the overlash.
3. No bundle size may exceed two inches in outside diameter without LG&E/KU's prior written approval.

#### 4.1.5 Overlash Illustration



Cables 1, 2, and 3 are eligible for overlash without notice, assuming that the cable used is one-half inch in diameter or smaller.

Cable 5 is eligible for overlash with appropriate notice to LG&E/KU, provided the bundle's final diameter is two inches or smaller.

Cable 4 is likely ineligible for overlash without prior written approval to create a final diameter of more than two inches.

## **4.2 Service Drops**

### **4.2.1 Treatment for Billing**

1. A service drop is considered an additional attachment in either of the following circumstances:
  - a. When the service cable extends more than one span prior to the service point
  - b. When the service cable is affixed more than six inches above or below the through-bolt

### **4.2.2 Notice Requirement**

1. An Attachment Customer must provide notice of all service drops within 60 days of attachment.

### **4.2.3 Form of Notice**

1. Notice must be provided using Katapult.
  - a. For service drops, select the “Service Drop” attachment type.
  - b. For service drops constituting a new attachment, select the “Service Drop New Attachment” attachment type.

### **4.3 Certification of Notice**

#### **4.3.1 Requirement of Certification**

1. Attachment Customer's highest ranking officer located in Kentucky shall certify under oath on or before January 31 of each year that the Attachment Customer has complied with all notification requirements contained in Rate PSA, including that it has submitted appropriate overlash and service drop notices.
2. If Attachment Customer does not have an officer located in Kentucky, then the certification shall be provided by the officer with responsibility for Attachment Customer's operations in Kentucky.

#### **4.3.2 Form of Certification**

1. Please refer to Chapter 7 References below for a copy of the current version of the required certification form.

## **5. Unsafe and Unauthorized Attachments**

### **Overview**

This chapter address attachments that were installed unsafely and/or without LG&E/KU approval. This includes attachments that have been installed outside of a pole attachment application, as well as attachments that were not installed according to an approved design. While LG&E/KU expects all Attachment Customers to follow the installation requirements described by this Handbook, LG&E/KU also recognizes that this does not always occur. This chapter provides guidance on what Attachment Customer's responsibilities are, and how unsafe and unauthorized attachments will be addressed when discovered.

### **Chapter Outline**

#### **5.1 Unsafe Attachments**

#### **5.2 Unauthorized Attachments**

## **5.1 Unsafe Attachments**

### **5.1.1 Obligation to Attach Safely**

1. LG&E/KU considers the safety of the public and all those working on or near LG&E's poles to be the top priority for any project. Attachment Customers have an obligation to perform all of their work safely and in accordance with LG&E/KU's construction and safety standards and practices. No Compromise!

### **5.1.2 Compliance with Codes and Standards**

1. Attachment Customers must install their attachments in accordance with the requirements of the NESC, the NEC, and LG&E/KU's Construction and Safety standards and practices. In the event of a conflict, the more stringent standard applies.
2. If you have a question regarding the applicability of any of the above, please contact LG&E/KU design personnel.

### **5.1.3 Stopping Work**

1. If at the time of installation, field conditions differ from those contained in the approved design, stop work and contact LG&E/KU operations personnel to discuss changes to the approved design. This will prevent worker injury, LG&E/KU service outages, and project delays.
2. LG&E/KU reserves the right to stop the work of anyone working on its poles or near its facilities when it appears the work is being performed unsafely.

### **5.1.4 Post-Construction Audits**

1. LG&E will perform a post-construction site visit to confirm that the installation matches the approved design.
  - a. If the inspection indicates that the attachment poses safety or reliability concerns, LG&E/KU will contact the Attachment Customer about how to correct the unsafe installation.
  - b. If not corrected within 30 days, LG&E/KU may correct the issue and bill the Attachment Customer for LG&E/KU's costs, plus 10 percent.

## **5.1 Unauthorized Attachments**

### **5.2.1 Definition and Categories**

1. An unauthorized attachment is an attachment that requires LG&E/KU's approval or advanced notices but is made without obtaining that approval or providing that advanced notice. They fit into the following categories:
  1. Attachments made without submitting an application.
  2. Attachments made with an application submitted, but prior to the application's approval.
  3. Overlapping performed without appropriate notice.

### **5.2.2 Requirement for Permitting; Costs**

1. All attachments require an application. If an unauthorized attachment is not contained in an existing attachment application, the Attachment Customer must submit an application within 30 days of LG&E/KU's notification to the Attachment Customer that it has discovered the attachment.
2. The application must contain the same information as if it had been submitted in compliance with LG&E/KU's application requirements. The application must include any make-ready that is necessary to safely accommodate the new attachment. Please refer to Sections 3.1.3 Supply Space Make-Ready and 3.1.4 Communications Space Make-Ready above.
3. The Attachment Customer is responsible for all costs associated with the application, including the review fee and make-ready costs. These costs will be collected in the regular application review process. Please refer to Section 3.1.1.8 Application Review Charges above.

### **5.2.3 Unauthorized Attachment Fees**

1. The Attachment Customer is responsible for unauthorized attachment fees at a rate of \$25 per attachment. These fees will be invoiced separately.

## 6. Transfers and Relocations

### Overview

This chapter addresses the Attachment Customer's responsibilities around transfer and relocation requests made by LG&E/KU.

#### **6.1 Relocation requests**

1. LG&E/KU will provide written notice of the need for the removal, transfer, or relocation of an attachment.

#### **6.2 Time period for relocation**

1. LG&E may remove, transfer, or relocate the attachments beginning 45 days after providing written notice of the need for the removal, transfer, or relocation of an attachment.
2. The Attachment Customer may remove, transfer, or relocate its own attachments during the 45-day notice period, or at any time before LG&E/KU performs the work itself.

#### **6.3 Costs**

1. The Attachment Customer is responsible for its costs to remove, transfer, or relocate its attachments.
2. If LG&E/KU performs the work, LG&E/KU will bill the Attachment Customer for any costs related to its removal, transfer, or relocation of the attachments.

## **7. References**

### **References List**

**7.1 LG&E and KU Pole Attachment Services Website (link)**

**7.2 Katapult (link)**

**7.3 Contact Methods for LG&E and KU**

**7.4 LG&E and KU Service Territory Map**

**7.5 Notice Certification Form**

**7.6 Wireline Attachment Standards**

**7.7 Wireless Attachment Standards**

**7.8 Communications Attachment Installation Basics**

**7.1 LG&E and KU Pole Attachment Services Website (link)**

<https://lge-ku.com/pole-attachment-services>

**7.2 Katapult (link)**

<https://lge.katapultwebservices.com/>

**7.3 Contact Methods for LG&E and KU**

**Operations Contacts**

**Kentucky Utilities**

E-mail contact: [KUPoleAttachment@lge-ku.com](mailto:KUPoleAttachment@lge-ku.com)

Note: Please indicate the applicable Operations Center in the subject line of all emails.

KU Operations Centers

Danville	.....	859-236-6554
Earlington	.....	270-383-3666
Elizabethtown	.....	270-765-4102
Lexington	.....	859-367-5324
London	.....	606-877-2836
Maysville	.....	606-564-5074
Norton	.....	276-679-5025
Pineville	.....	606-589-3125
Richmond	.....	859-623-1588
Shelbyville	.....	502-633-9459

**Louisville Gas and Electric**

E-mail contact: [LGEPoleAttachment@lge-ku.com](mailto:LGEPoleAttachment@lge-ku.com)

**Electric Service Requests**

For LG&E: <https://lge-ku.com/business/lge-builderdeveloper-relations>

For KU: <https://lge-ku.com/business/start-service>

**Administrative Contacts**

**Third Party Attachments Group**

John LaFollette: [John.LaFollette@lge-ku.com](mailto:John.LaFollette@lge-ku.com)

Megan Wiley: [Megan.Wiley@lge-ku.com](mailto:Megan.Wiley@lge-ku.com)

#### **7.4 LG&E and KU Service Territory Map**

A high-resolution map of the LG&E and KU service territories can be found here:

High-Resolution Map of Electric Service Territory

## **7.5 Notice Certification Form**

A PDF of the notice certification form prescribed by LG&E and KU appears on the following page.

**CERTIFICATION OF COMPLIANCE WITH POLE AND STRUCTURE ATTACHMENTS RATE SCHEDULE TERM AND CONDITION 25**

I, \_\_\_\_\_, hereby certify that:  
(Name of Certifying Officer)

1. I am the highest ranking officer of \_\_\_\_\_ (“Attachment Customer”) located in the state of Kentucky;

2. Attachment Customer has attached its facilities to Kentucky Utilities Company’s (“the Company”) poles and structures of under the provisions of the Company’s Pole and Structure Attachments (“PSA”) Rate Schedule;

3. During the year ending December 31, 20\_\_, the Attachment Customer fully complied with the notice provisions set forth in the Company’s PSA Rate Schedule and has provided timely notice to the Company of any and all events for which notice must be provided, including but not limited to, notice of (1) the affixing of service drops to the Company’s utility poles; (2) damage caused by the Attachment Customer when placing attachments on the Company’s facilities; (3) the overlashing of any existing cables, other than an initial overlash when the additional cable is no larger than one-half inch in diameter, or the replacement of an existing overlashed cable, when the replacement cable is no larger than one-half inch in diameter; (4) deployment of strand mounted communication devices other than strand-mounted wi-fi access points; (5) the abandonment of any attachments; and (6) any accidents or claims involving the Attachment Customer’s Attachment or work under the Company’s PSA Rate Schedule.

\_\_\_\_\_  
Certifying Official

STATE OF \_\_\_\_\_ )  
 ) SS  
COUNTY OF \_\_\_\_\_ )

Subscribed and sworn to before me, a Notary Public in and before said County and State,  
this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

Notary ID Number: \_\_\_\_\_

## **7.6 Wireline Attachment Standards**

LG&E/KU's wireline attachment standards appear on the following pages.

**NESC SECTION 235 AND 238 REQUIREMENTS (NESC 2017)**

This standard details the clearance requirements at all locations between LG&E/KU's conductors and equipment and any non-LG&E/KU communication cables and equipment.

Two sections are shown below. Part I details the required clearances at the structure while Part II details the clearances at all other locations. Each part shows the typical clearances between facilities, the minimum clearances allowed by the NESC, and special clearance reductions which are allowed under certain circumstances.

All new facilities will be constructed using the "typical" clearances. New facilities placed on existing structures should also meet the "typical" clearance requirements wherever possible. However, clearances may be reduced to the minimum NESC clearances (including special clearance reductions) where necessary to prevent the need to replace the structure. Allowable special clearance reductions should only be used as the last option to replacing the structure.

**PART I - (VERTICAL CLEARANCES AT THE STRUCTURE - NESC RULE 235/238)**

**TABLE A**

LG&E/KU FACILITIES	CLEARANCE TO COMMUNICATION FACILITIES		
	TYPICAL	NESC MINIMUM	SPECIAL REDUCTION
NEUTRAL, GROUNDED GUYS AND SUPERVISORY CABLE	48"	40"	30" *
SECONDARY (750V) & INSULATED GUYS	48"	40"	
4.16 KV, 12.47 KV	48"	40"	
13.8 KV	48"	43"	
34.5 KV	60"	45"	
69 KV	120"	54"	
138 KV	120"	70"	
GROUNDED EQUIPMENT	48"	40"	30" **
UNGROUNDING EQUIPMENT	SAME AS PRIMARY CLEARANCE		
STREET LIGHT	SEE PAGE 2		

\* NESC TABLE 235-5, NOTE 5 \*\* NESC TABLE 238-1, NOTE 1

**CLEARANCE REQUIREMENTS AT THE POLE ARE MEASURED BETWEEN:**

**UPPER POSITION:** Lowest supply conductor or metallic conductor support, including insulator pins, switch arms (in open position), aerial cable spacers and brackets, etc.

**LOWER POSITION:** Upper most communication cable, messenger or the top of any communication equipment, including support brackets, equipment enclosures, splice packs, etc.

**SEE PAGE #2  
TO DETERMINE HOW CLEARANCES AT THE  
STRUCTURE ARE MEASURED**

**PART II - (VERTICAL CLEARANCES AT ALL OTHER LOCATIONS - NESC RULE 235)**

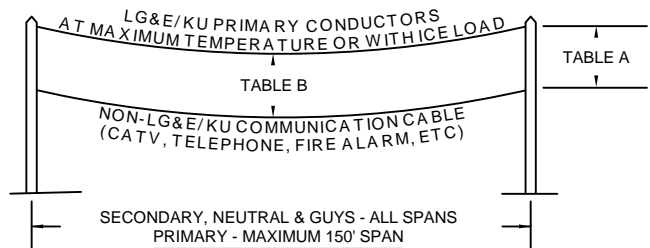
Clearances at all locations, other than at the structure, will be based on one of the following load cases (whichever results in the least amount of clearance). All sags are final sags.

- A) The upper supply conductor at its maximum operating temperature with the communication conductors at 120° F (maximum operating temperature is 120° F for voltages less than 69kV, and 212° F for voltages 69kV and above).
- B) The upper supply conductor at 0° F with 1/2" ice and the communication conductor at 0° F with no ice.

**TABLE B**

LG&E/KU FACILITIES	TYPICAL CLEARANCE	NESC MINIMUM	SPECIAL CLEARANCE REDUCTION
SECONDARY, NEUTRALS & GUYS - ALL SPANS			
NEUTRAL, GROUNDED GUYS AND SUPERVISORY CABLE	36"	30"	12" ***
SECONDARY (750V) & INSULATED GUYS	36"	30"	
PRIMARY CONDUCTORS - MAXIMUM OF 150' SPANS			
4.16 KV, 12.47 KV	36"	30"	
13.8 KV	36"	32"	
34.5 KV	48"	34"	
69 KV	96"	40"	
138 KV	96"	55"	

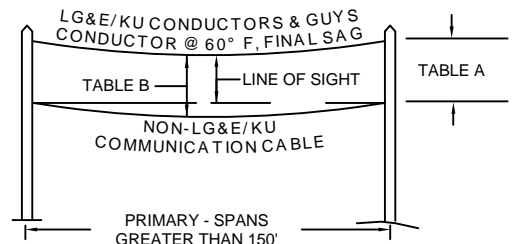
\*\*\* NESC RULE 235C2b(1)(a) EXCEPTION 1



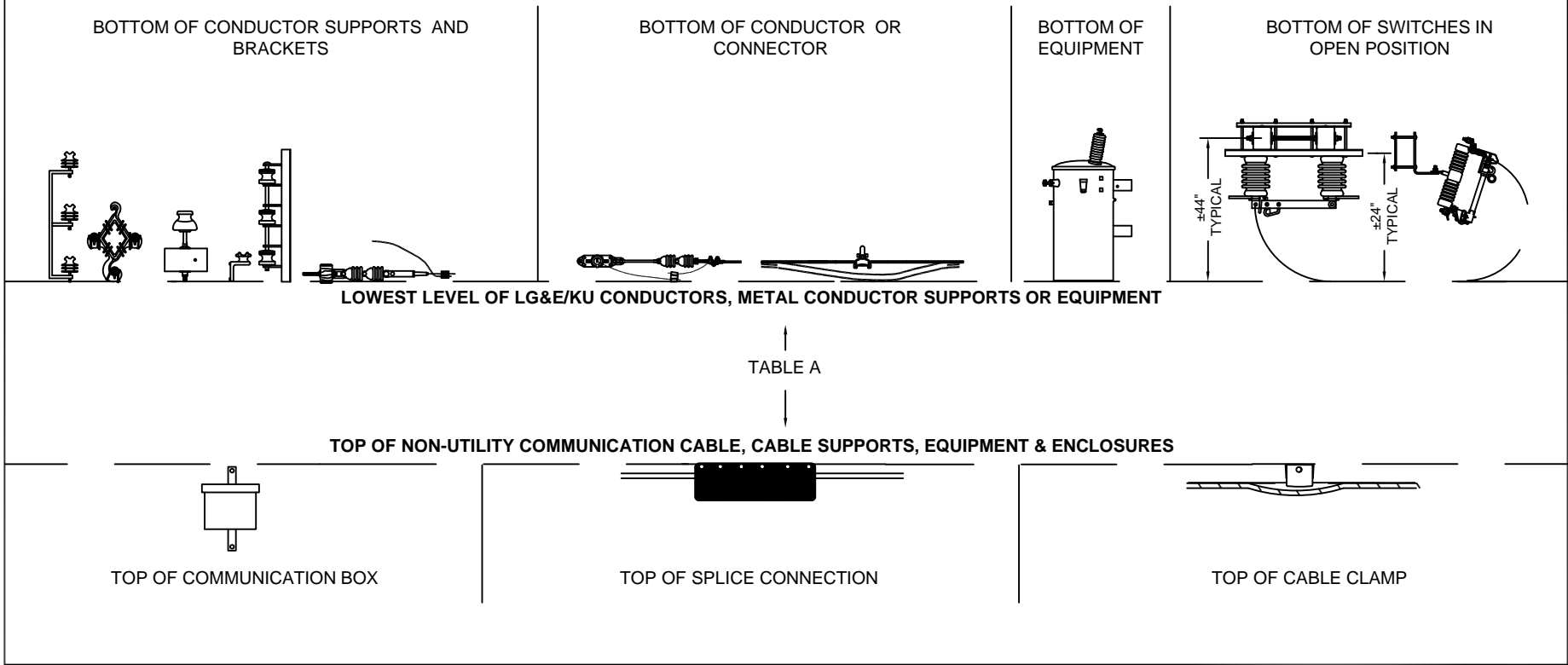
**CLEARANCES OF PRIMARY CONDUCTORS ON SPANS GREATER THAN 150'**

When primary conductors (above 750V) are installed on spans longer than 150', a supplemental requirement must be met in addition to the NESC minimum clearances detailed in Table B. The clearances at the pole must be adjusted so that both the following conditions are met at any point in the span:

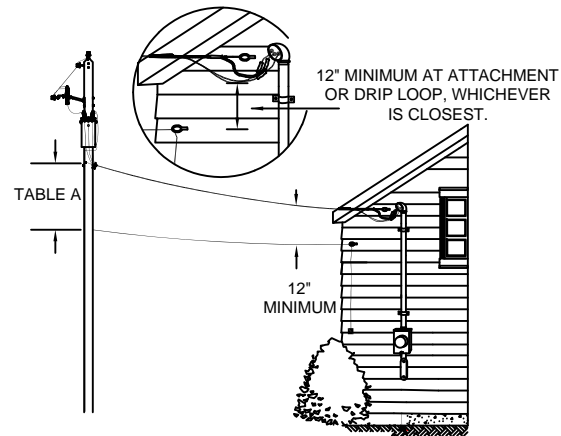
- A) Clearances are not less than the values shown in Table B.
- B) Clearance must be provided so that the supply conductor at 60 F, no wind displacement, final sag, will not sag below the line of sight between the attachment points of the highest communication conductor (NESC RULE 235C2b(3)).



**REQUIREMENTS FOR DETERMINING VERTICAL CLEARANCES TO COMMUNICATION FACILITIES AT THE STRUCTURE (NEC RULE 238)**



Note: Communications service drops are no longer permitted on the service mast (above or below roof).  
NEC 230.28

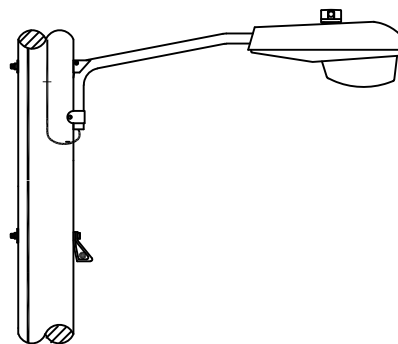


**SERVICE DROPS ONLY**

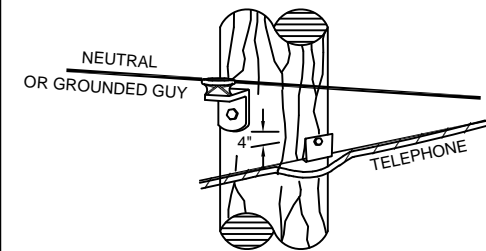
For secondary service drops only, clearance at any point within the span may be reduced to 12" if clearance at the pole is maintained to the values in Table B (NEC Rule 235C1 Exception 3)

**OTHER SPECIAL CLEARANCE REDUCTIONS**

SEE STANDARD 021012



**DRIP LOOP & LUMINAIRE TO COMMUNICATION CABLE/EQUIPMENT (NEC TABLE 238-2)**



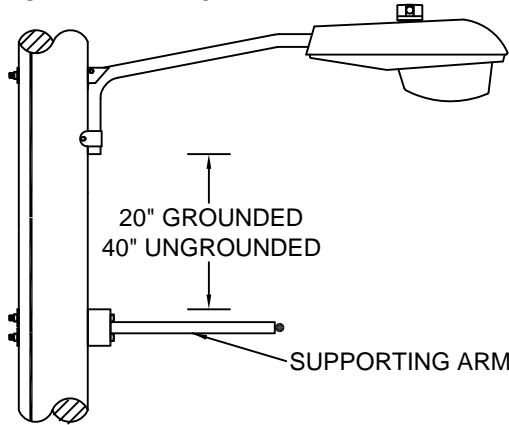
**COMMUNICATION CROSSING**

Where communication conductors cross under an effectively grounded neutral or grounded guy, clearances may be reduced to 4" provided clearance to energized conductors are maintained (NEC Rule 235C1 Exception 2).

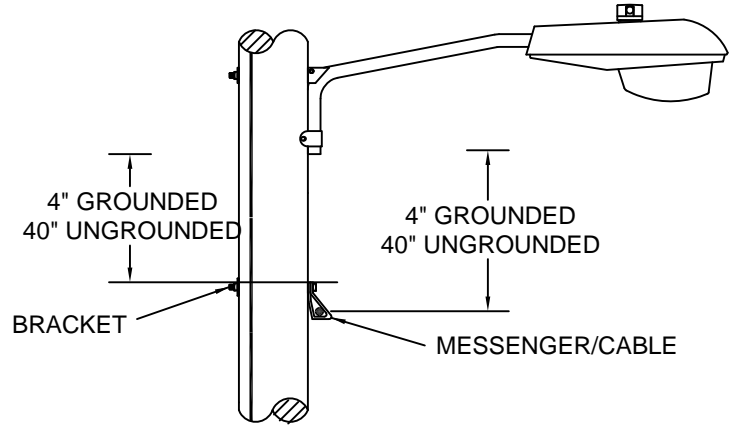
NEC SECTION 238 REQUIREMENTS (NEC 2017)

NOTE:

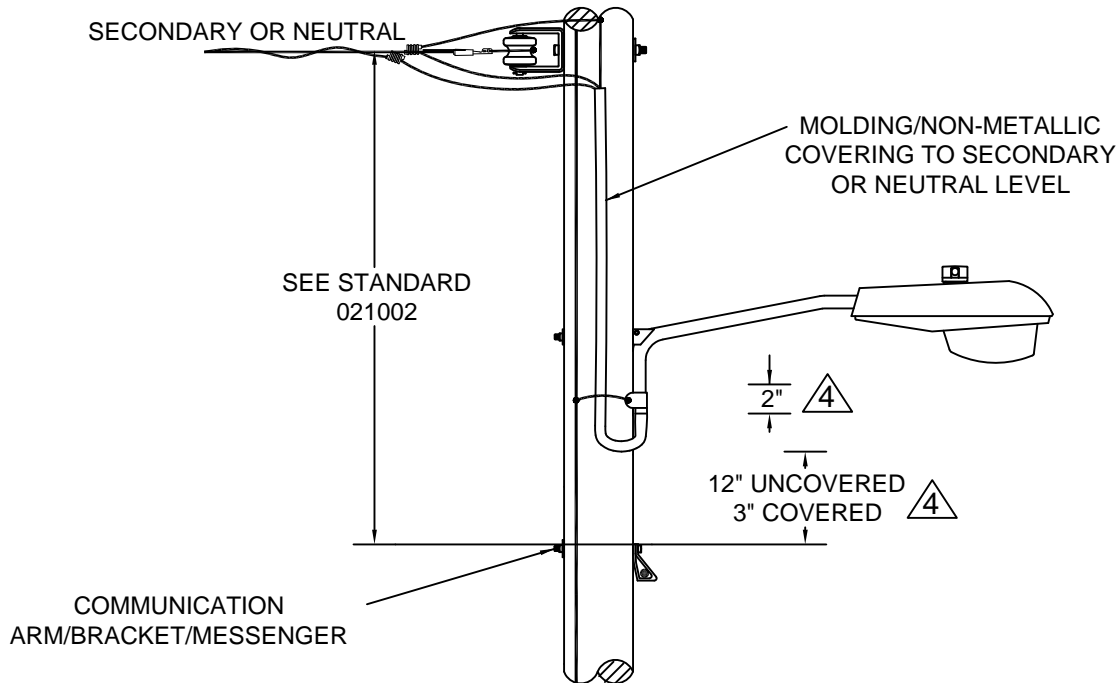
1. ALL NEW STREET LIGHT FIXTURES MUST BE EFFECTIVELY GROUNDED. IF UNABLE TO VERIFY GROUND, EITHER USE UNGROUNDED CLEARANCES OR FIXTURE MUST BE GROUNDED.
2. 40" MIN. CLEARANCE MUST BE MET BETWEEN NEUTRAL AND SECONDARY CABLE HARDWARE AND COMMUNICATIONS EQUIPMENT.
3. THE 12" AND 3" CLEARANCE ONLY APPLIES TO THE DRIP LOOP FEEDING THE LUMINAIRE.
4. THE REDUCED 3" CLEARANCE MAY BE USED IF NON-METALLIC COVERING IS PROVIDED AND EXTENDS 2" INTO LUMINAIRE BRACKET.



**CLEARANCE FROM LUMINAIRE BRACKET TO TOP OF COMMUNICATION SUPPORTING ARM**



**CLEARANCE FROM LUMINAIRE BRACKET TO TOP OF COMMUNICATION BRACKET OR CABLE/MESSENGER MOUNTED TO POLE (BOTH REQUIREMENTS APPLY)**



**CLEARANCE FROM DRIP LOOP TO TOP OF COMMUNICATION ARM/BACKET/MESSENGER**

## **7.7 Wireless Attachment Standards**

LG&E/KU's wireless attachment standards appear on the following pages.

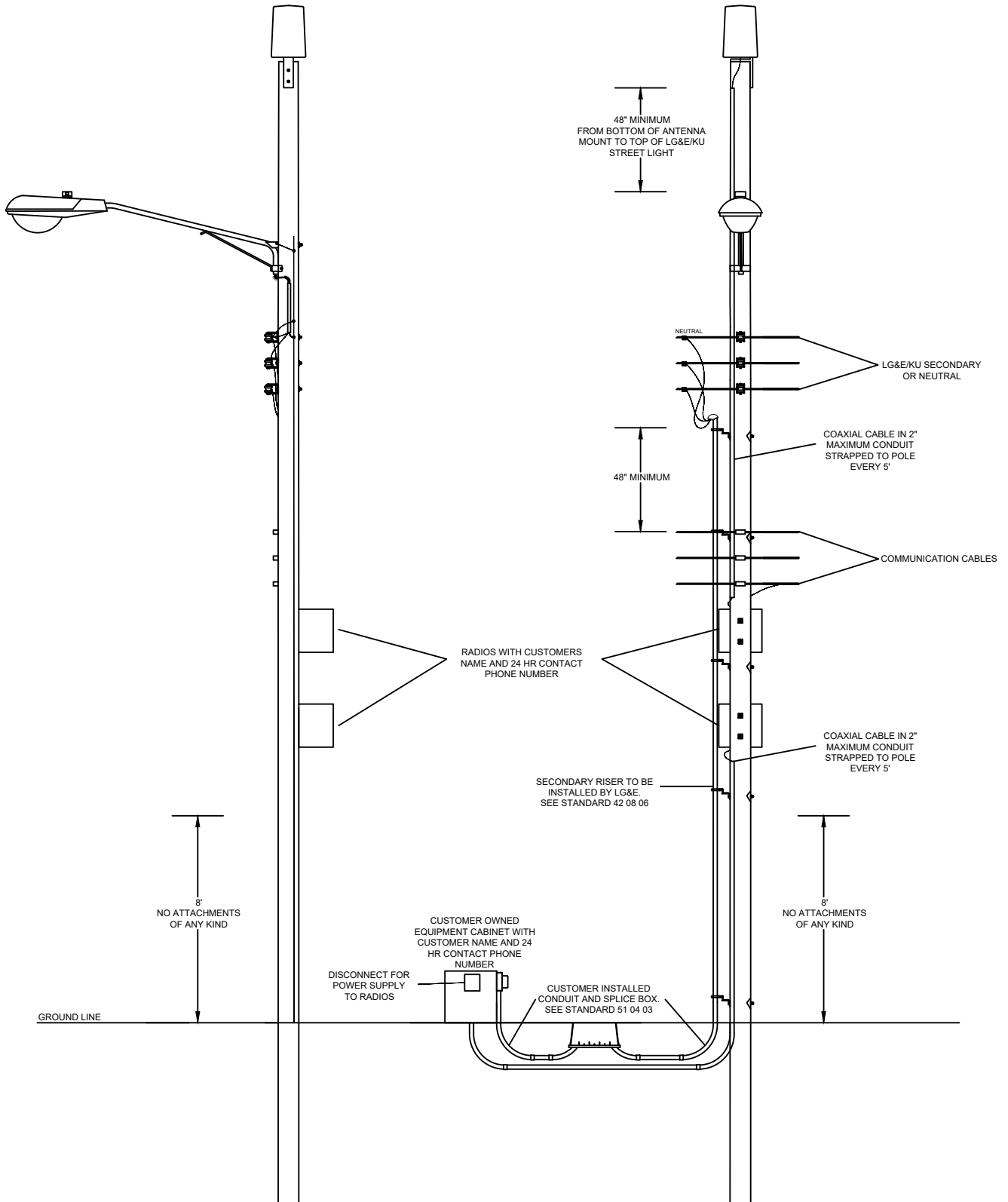
## GUIDELINES FOR DESIGN AND INSTALLATION

- When requesting wireless antenna attachment on LG&E/KU poles, the Attachment Customer must first look at attaching to secondary, service, drop or guy poles. Only when no such pole is available may an Attachment Customer request attachment to a single phase primary pole.
- All clearance dimensions are a minimum distance.
- Installations will be allowed on bucket truck accessible poles only, where bucket truck poses no risk of damage to public or private property.
- Consult Distribution Operations Design Group to ensure that 120/240 volt service is available on the pole in question.
- All installations must conform to all applicable electrical codes and LG&E/KU requirements for clearances, climbing space and working space.
- All communications equipment shall be furnished and installed by the facility owner. Refer to Standard 510403 for service related equipment.
- Only qualified personnel approved by LG&E/KU shall be allowed to work above the communications space. They shall be trained in and knowledgeable of the clearance requirements and working rules of OSHA and the NESC.
- A driven ground is required at each equipment location. Grounding shall be in accordance with all applicable electrical codes. Bond the antenna bracket and radio/equipment box(s) to ground lead.
- Only one antenna unit shall be installed per pole.
- The height of all poles used to mount antennas must be increased by a minimum of five feet above the existing pole's height unless otherwise approved by LG&E/KU Distribution Operations staff. Pole heights not to exceed 10' taller than the existing pole unless otherwise approved by LG&E/KU. The cost of the taller pole is the responsibility of the Attachment Customer.
- Minimum Class 3 pole is required unless approved by LG&E/KU Distribution Operations staff.
- If a pole is topped for installation the untreated pole top must be treated and covered.
- Unit may not be mounted to any pole on which there are transformers, risers, vertical supply conductors to aerial services, switch handles, capacitor banks or similar fixtures.
- The service riser shall be installed by LG&E/KU unless otherwise approved by LG&E/KU staff.
- Wireless attachment installations must be metered unless un-metered service is specifically directed by LG&E/KU. No third-party meters will be allowed on LG&E/KU poles.
- The meter socket shall be a minimum of 100 amp, ringless style, with bypass horns. The service will be three wire 120/240 volt. Two wire 120 volt service is not acceptable.
- The antenna power source must have an additional lockable disconnect installed to allow the antenna and radio/equipment boxes to be disconnected from the battery backup before work is performed within the area designated by the RF Warning signs. Each disconnect must provide a visible break, a test point, or similar means for utility workers to ensure circuit has been de-energized. Each attaching company may provide and install a lockbox with a key to their disconnect switch inside. LG&E/KU will padlock the lockbox to enable access to the attacher's key for the disconnect switch.
- All antennas are required to have two RF warning signs installed. A sign shall be installed near the pole top at the level where the safe approach distance ends for the FCC General Population/Uncontrolled Power Levels and read at minimum "Warning - Antenna Approach distance is \_\_\_ Feet." The second sign shall be installed near the base of the pole at eye-level and shall read "Radio frequency fields at pole top may exceed FCC limits for utility work on structure within the safe antenna approach distance designated above. Disconnect RF power using disconnect located on ground mounted equipment cabinet before working within the safe antenna approach distance. Call \_\_\_\_\_ (800-XXX-XXX) for disconnect instructions or more information." The sign shall include the antenna owners name and phone number or attachee number. When LGE/KU work is required within the antenna approach distance, workers will disconnect the RF source.
- All antennas and ancillary equipment shall be labeled with the owner's name and contact information, including an emergency contact number.
- It is the antenna owner's responsibility to inform all pole attachers on the pole of the RF exposure hazards and mitigation techniques.
- The antenna cables shall be run in non-metallic conduit. Schedule 80 will be used for the first 8' from the ground and Schedule 40 or 80 can be used for the rest of the riser. Conduit is to extend at least 48" above and below any supply conductors.
- All cabinets must be installed with thru-bolts on same side of pole to maintain ability to climb pole when required. Band-type attachments shall not be used.
- Maximum weight for radio/equipment boxes will be determined during permitting process.
- Antenna owner may have their equipment mounted to the pole contained within no more than two separate boxes unless approved by LG&E/KU Distribution Operations staff.
- Antenna cable(s) shall be installed in maximum 2" non-metallic conduit strapped every 5' unless approved by LG&E/KU Distribution Operations staff.
- Customer's equipment may not occupy more than two adjacent quadrants.
- The weatherhead and antenna unit must be mounted on the same quadrant of the pole unless approved by LG&E/KU Distribution Operations staff.
- The unit cannot prevent other communication companies from accessing their facilities.
- LG&E/KU is not responsible for any damages caused by weather events, other's actions, or when the pole and associated fixtures are maintained or replaced.
- LG&E/KU must approve the final design prior to any installations.

NOTE:

1. ALL EQUIPMENT ASSOCIATED WITH WIRELESS ATTACHMENTS (I.E. RADIOS, DISCONNECTS, ETC.) THAT IS LOCATED BELOW THE SUPPLY SPACE SHALL BE INSTALLED IN-LINE WITH THE OVERHEAD ROUTE AND/OR ON THE SAME SIDE OF THE POLE AS WIRELINE COMMUNICATIONS FACILITIES.

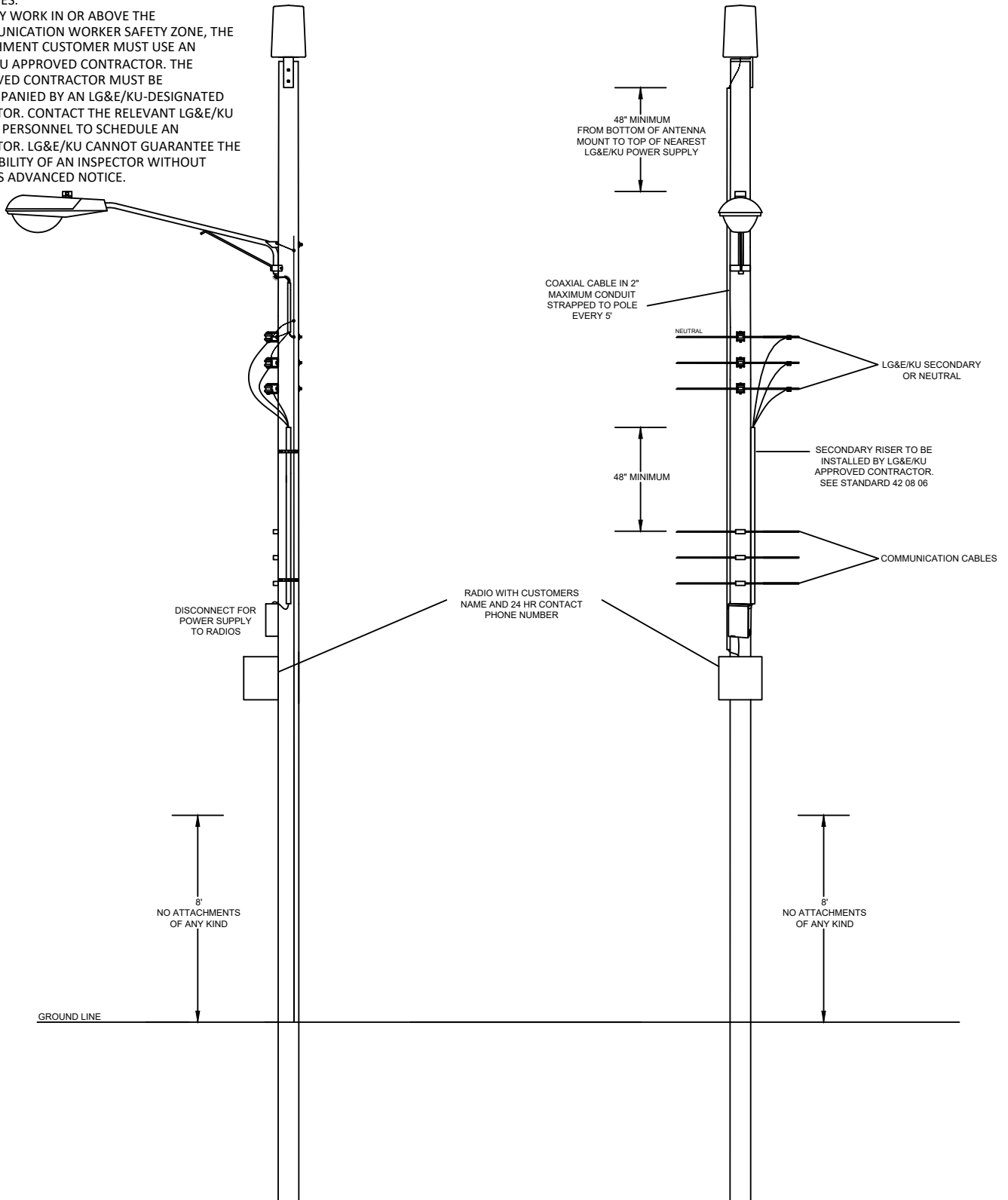
SECONDARY POLE WITH ANTENNA ABOVE SECONDARY



NOTE:

1. LG&E/KU WILL PROVIDE UNMETERED SERVICE FOR WIRELESS ATTACHMENTS IN ITS DISCRETION. ALL CUSTOMER-OWNED POLES WILL HAVE METERED SERVICE.
2. ALL EQUIPMENT ASSOCIATED WITH WIRELESS ATTACHMENTS (I.E. RADIOS, DISCONNECTS, ETC.) THAT IS LOCATED BELOW THE SUPPLY SPACE SHALL BE INSTALLED IN-LINE WITH THE OVERHEAD ROUTE AND/OR ON THE SAME SIDE OF THE POLE AS WIRELINE COMMUNICATIONS FACILITIES.
3. FOR ANY WORK IN OR ABOVE THE COMMUNICATION WORKER SAFETY ZONE, THE ATTACHMENT CUSTOMER MUST USE AN LG&E/KU APPROVED CONTRACTOR. THE APPROVED CONTRACTOR MUST BE ACCOMPANIED BY AN LG&E/KU-DESIGNATED INSPECTOR. CONTACT THE RELEVANT LG&E/KU DESIGN PERSONNEL TO SCHEDULE AN INSPECTOR. LG&E/KU CANNOT GUARANTEE THE AVAILABILITY OF AN INSPECTOR WITHOUT 15-DAYS ADVANCED NOTICE.

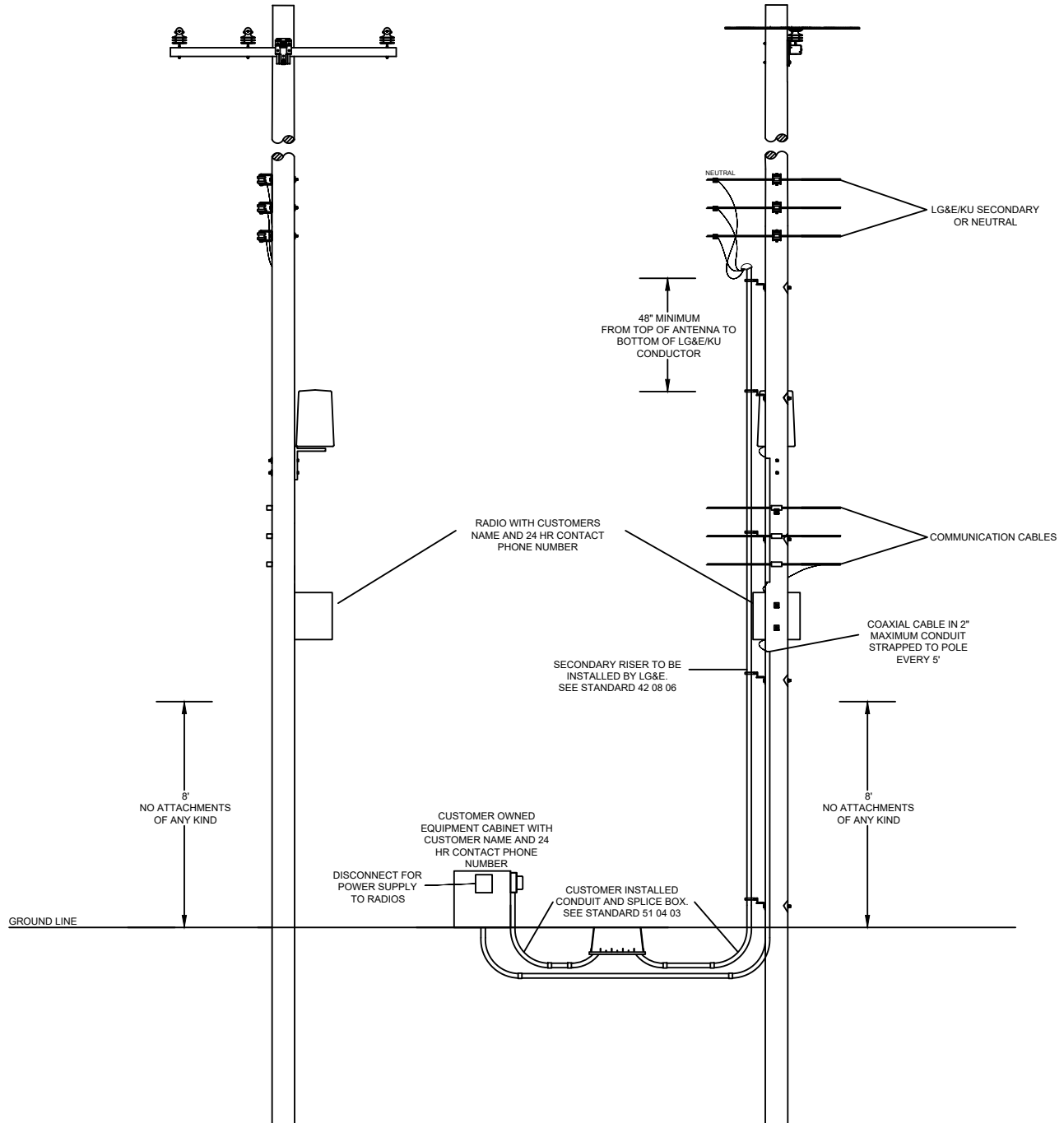
SECONDARY POLE WITH ANTENNA ABOVE SECONDARY FED FROM OVERHEAD WITHOUT METER



NOTE:

1. ALL EQUIPMENT ASSOCIATED WITH WIRELESS ATTACHMENTS (I.E. RADIOS, DISCONNECTS, ETC.) THAT IS LOCATED BELOW THE SUPPLY SPACE SHALL BE INSTALLED IN-LINE WITH THE OVERHEAD ROUTE AND/OR ON THE SAME SIDE OF THE POLE AS WIRELINE COMMUNICATIONS FACILITIES.

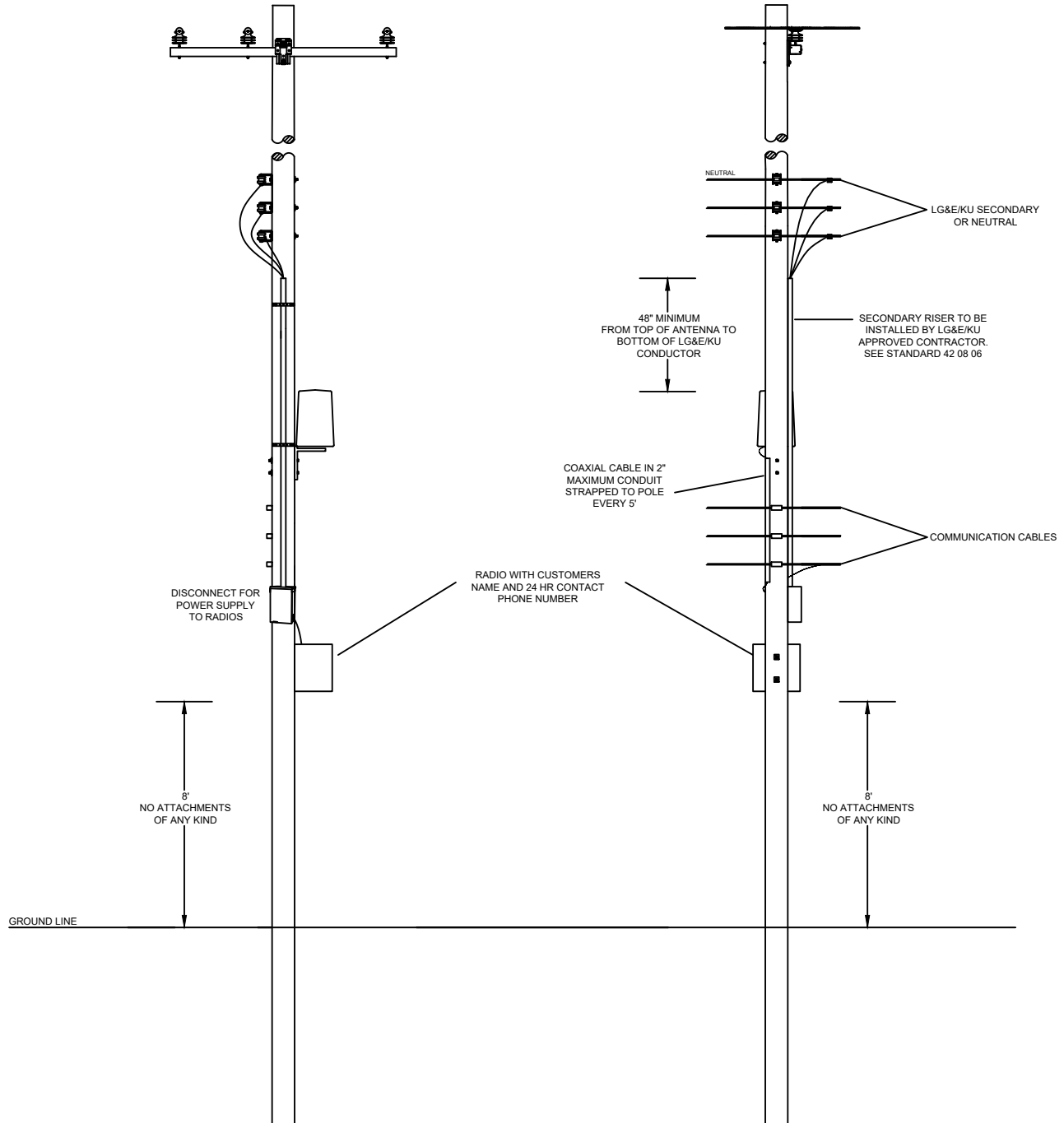
3Ø POLE WITH ANTENNA BELOW SECONDARY



NOTE:

- 1. ALL EQUIPMENT ASSOCIATED WITH WIRELESS ATTACHMENTS (I.E. RADIOS, DISCONNECTS, ETC.) THAT IS LOCATED BELOW THE SUPPLY SPACE SHALL BE INSTALLED IN-LINE WITH THE OVERHEAD ROUTE AND/OR ON THE SAME SIDE OF THE POLE AS WIRELINE COMMUNICATIONS FACILITIES.

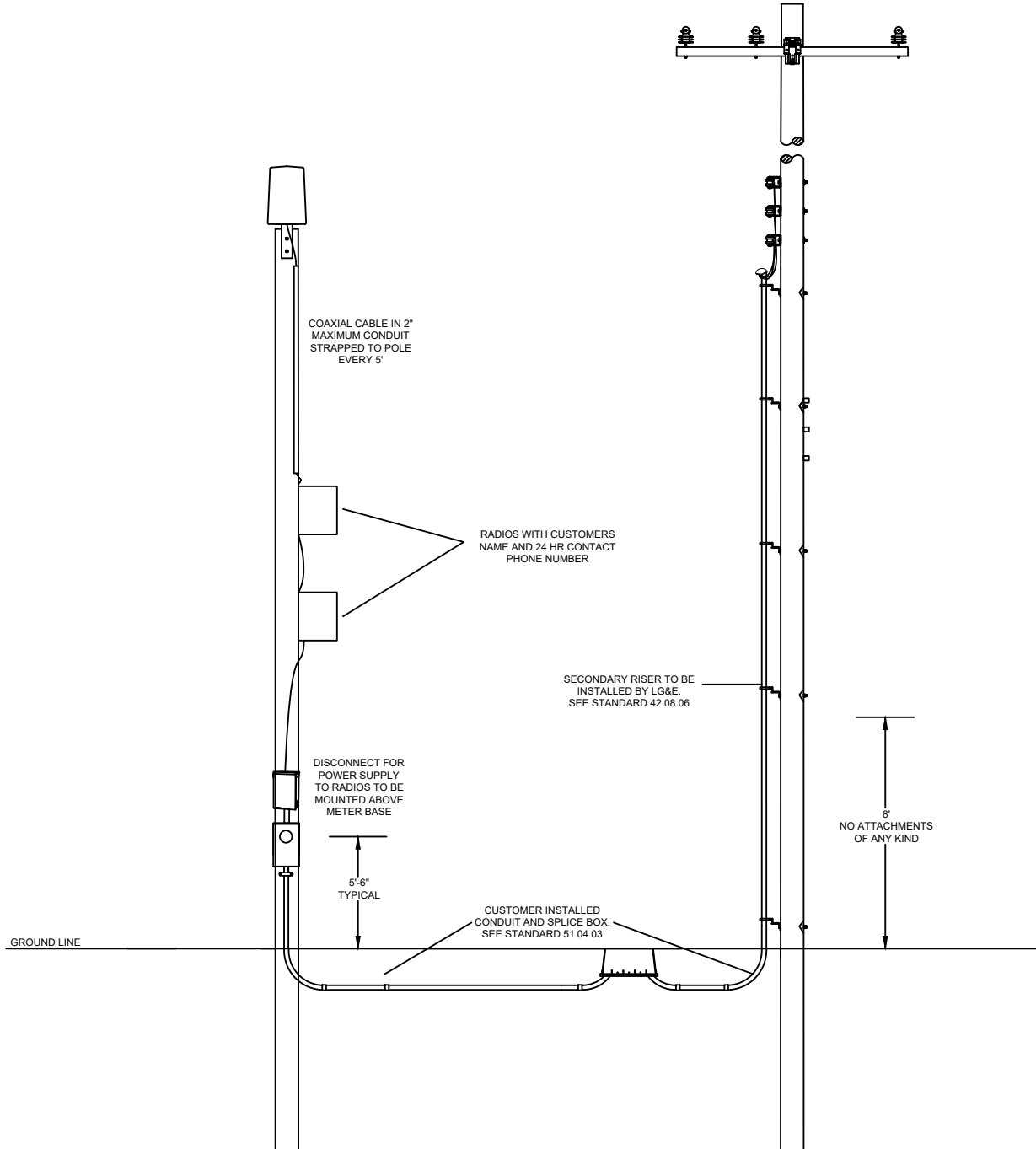
3Ø POLE WITH ANTENNA BELOW SECONDARY FED FROM OVERHEAD WITHOUT METER



NOTE:

1. ALL EQUIPMENT ASSOCIATED WITH WIRELESS ATTACHMENTS (I.E. RADIOS, DISCONNECTS, ETC.) THAT IS LOCATED BELOW THE SUPPLY SPACE SHALL BE INSTALLED IN-LINE WITH THE OVERHEAD ROUTE AND/OR ON THE SAME SIDE OF THE POLE AS WIRELINE COMMUNICATIONS FACILITIES.

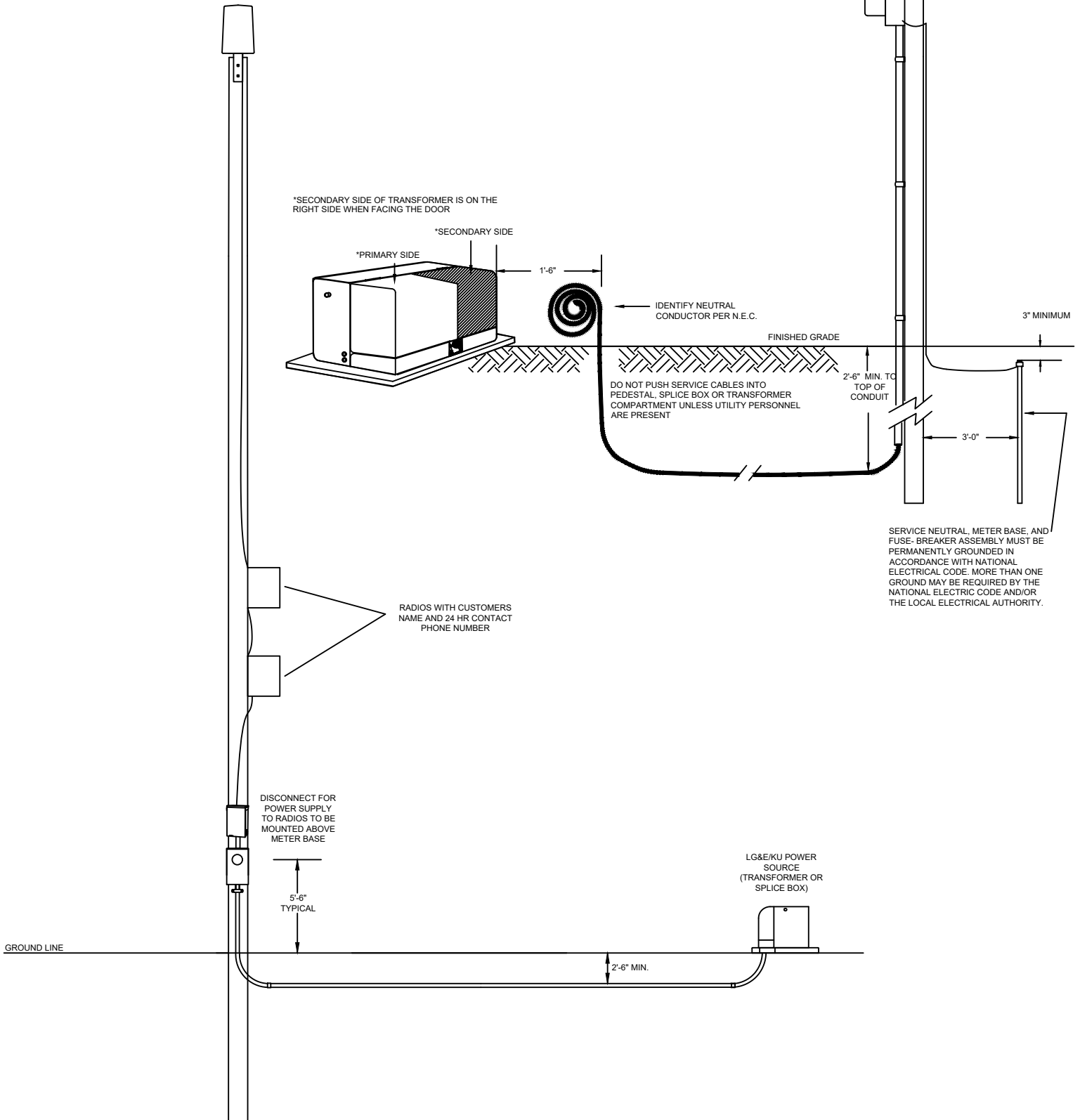
ANTENNA INSTALLATION ON NON LG&E/KU POLE



NOTE:

- 1. CUSTOMER TO INSTALL CABLE TO WITHIN 18" OF THE TRANSFORMER (SECONDARY SIDE - SEE DETAIL BELOW), SPLICE BOX OR PEDESTAL A MINIMUM OF 6'-0" OF SLACK CABLE MUST BE LEFT ABOVE GROUND TO MAKE CONNECTIONS. THE UTILITY WILL NOT EXCAVATE MORE THAN 18" TO INSTALL CABLES INTO UTILITY EQUIPMENT.

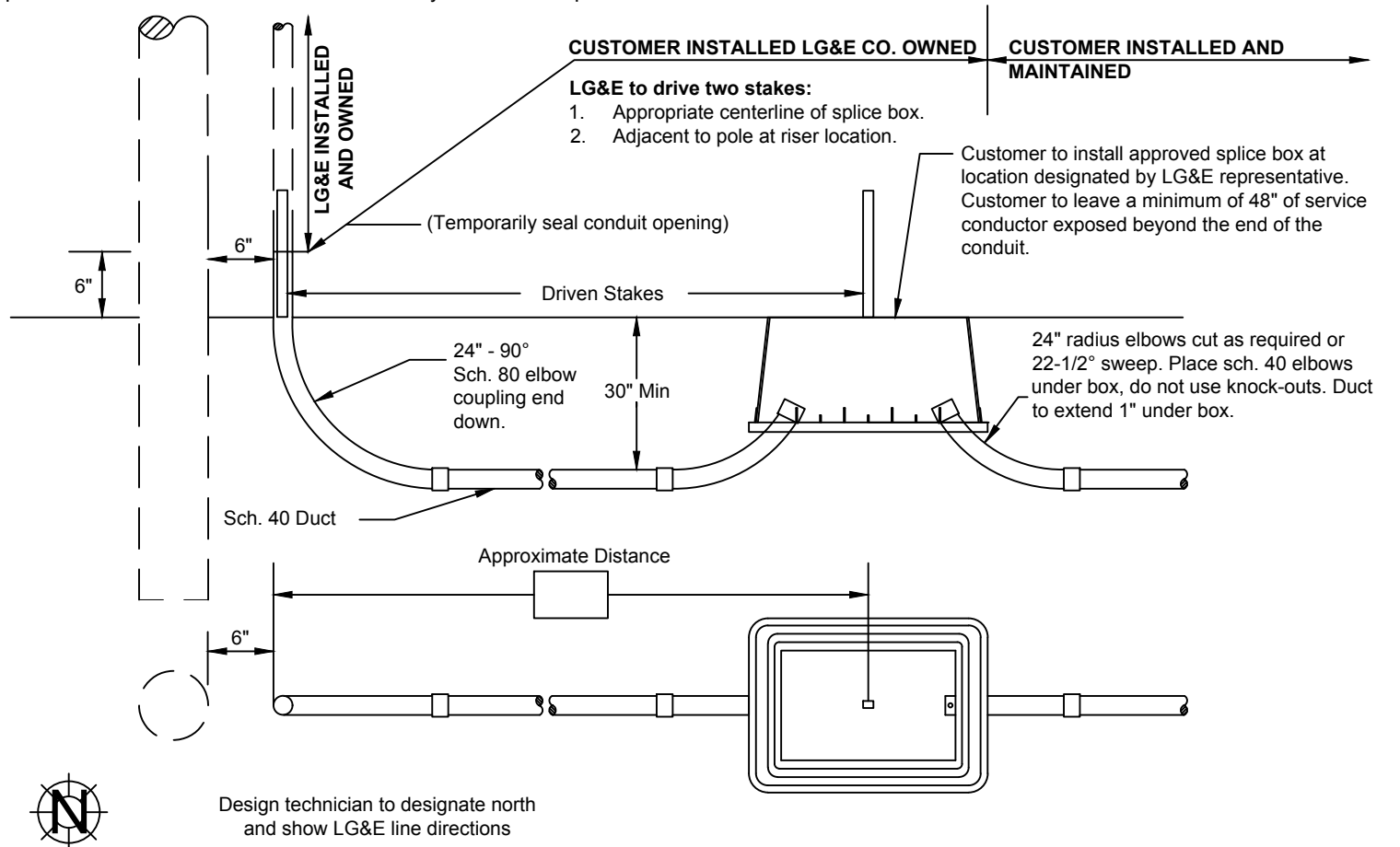
CUSTOMER OWNED POLE FED FROM UNDERGROUND



Location/Address		Contact Phone #	Overhead Job Necessary <input type="checkbox"/> Yes <input type="checkbox"/> No	
Service Size  _____ A	<b>Classification</b>	<b>Pole-Splice Box Duct</b>	<b>Box Size</b>	<b>Secondary Voltage</b>
	<input type="checkbox"/> <400 Amp	1 - 3" Duct (Minimum)	12" X 20" X 12"	<input type="checkbox"/> 120/240V - 1Ø - 3W
	<input type="checkbox"/> 400 Amp	1 - 3" Duct (Minimum)	13" X 24" X 15"	<input type="checkbox"/> 240/480V - 1Ø - 3W
	<input type="checkbox"/> Special			
<b>Approved Splice Box Vendor/Catalog Number Information</b>				
General: Splice boxes to be high density polyethylene supplied with non-metallic cover, captive stainless steel Penta-Head bolts and electric logo.				
<b>12" X 20" X 12" Splice Box (IIN 1243827)</b>		<b>13" X 24" X 15" Splice Box (IIN 7003714)</b>		
<b>Recommended for less than 400 Amp service</b>		<b>Recommended for 400 Amp service</b>		
<b>Pencell Plastics</b>	PE20HDX005P3	<b>Pencell Plastics</b>	DT132415HDX005P3	
<b>Highline Products</b>	1320-1G2G-HDE1NH	<b>Highline Products</b>	1324-15P2P-HDE1	
<b>Old Castle</b>	12201010	<b>Old Castle</b>	13241011	

**Notice:** It is the responsibility of the contractor to ensure the installation is built according to the latest revision of this document. The contractor should request a current version of this document from LG&E representative before beginning construction.

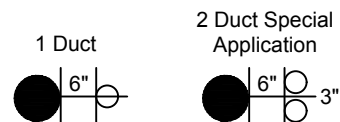
**Notes:** Customer is responsible for the installation of the splice box and conduit system from the pole designated by LG&E to the service entrance. The customer is also responsible for the service cable from the splice box to the service entrance. LG&E will take ownership of the splice box and conduit between the pole and the splice box. All other facilities will remain the responsibility of the customer. The splice box and conduit to the designated pole must be installed to the specifications, dimensions, location and orientation specified by LG&E and this standard. For any questions concerning this information, contact your service representative. All material as well as installation of material must be approved by LG&E prior to LG&E energizing service. If splice box must be installed in a sidewalk or in or near a driving area, customer must provide a suitable traffic rated box. Consult your service representative.



Ducts to be centered on pole with 6" between face of pole and edge of conduit and 3" face to face between multiple conduits.

\*For special designs above 400A, 1Ø, contact your Design Technician.

\*Always Call 811 before digging.



## **7.8 Communications Attachment Installation Basics**

A quick-reference guide to attachment installation appears on the following page.

# Communication Cable Installation Requirements

The following requirements must be met during the installation and maintenance of all communications cables. Exceptions to these requirements must be explicitly granted on the approved design.

- Must have 48" between lowest power and the top communication cable unless otherwise approved
  - Lowest power includes neutral, secondary, streetlight, drip loops, transformers, other equipment, etc.
- Must have approximately 12" between communication cables
  - Bolt holes should not be closer than 4"
- All attachments must be properly guyed prior to installation
  - All guys must include guy guard
  - Ensure proper installation method is used for applicable anchor type
- Communication cables must be properly sagged to maintain mid-span clearances to power and existing communications cables
  - Communications cables must be sagged to meet the sag of the existing communications cables
- All communications cables must be tagged by Attachment Owner with name and 24-hour contact number
- Must notify LG&E/KU upon completion of installation of new communications cables

