

June 5, 2023

VIA ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

RE: Docket No. 22-49-EL-The Narragansett Electric Company d/b/a Rhode Island Energy
Advanced Metering Functionality Business Case
Supplemental Response to PUC RR-1

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a Rhode Island Energy (“Rhode Island Energy” or the “Company”), attached is an electronic version of Rhode Island Energy’s supplemental response to the Public Utilities Commission’s Record Request (RR-1) in the above-referenced matter.¹


This filing includes a Motion for Protective Treatment of Confidential Information in accordance with Commission Rules of Practice and Procedure 1.3(H)(3) and R.I. Gen. Laws § 38-2-2(4) for Attachment RR-1-6 Supplemental, which contains confidential and proprietary business information. For the reasons stated in the Motion for Protective Treatment, the Company seeks protection from public disclosure of Attachment RR-1-6 Supplemental. Accordingly, the Company has provided the Commission with an original and two complete, unredacted copies of the confidential documents in a sealed envelope marked “**Contains Privileged and Confidential Information – Do Not Release.**”

Thank you for your time and attention to this matter. If you have any questions, please contact Jennifer Brooks Hutchinson at 401-316-7429.

¹ Per communication from Commission counsel on October 4, 2021, the Company is submitting electronic versions of these filings followed by hard copies filed with the Clerk within 24 hours of the electronic filing.

Luly E. Massaro, Commission Clerk
Docket No. 22-49-EL – AMF Business Case
June 5, 2023
Page 2 of 6

Very truly yours,



Jennifer Brooks Hutchinson

Enclosures

cc: Docket No. 22-49-EL Service List
John Bell, Division
Leo Wold, Esq.

The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 22-49-EL
In Re: Advanced Metering Functionality Business Case
and Cost Recovery Proposal
Responses to the Commission's First Set of Record Requests
Issued April 14, 2023

Public Utility Commission RR-1 Supplemental

Request:

Please provide a copy of the vendor agreements, including the software vendor agreement, the non-disclosure agreement, and the letter proposal.

Original Response:

Please see Confidential Attachments RR-1-1¹, RR-1-2², RR-1-3, RR 1-4, and RR-1-5 for the requested information.

Supplemental Response:

In the course of preparing its prefiled supplemental testimony, the Company identified a Network Installation Pricing Estimates letter proposal from its proposed vendor Landis+Gyr that sets forth proposed pricing for certain network installation components in connection with the Company's proposed AMF implementation (the "Network Installation Services Proposal Letter"). Accordingly, as part of the Company's continued effort to provide the Commission with all relevant information requested, the Company provides the Network Installation Services Proposal Letter as Confidential Attachment RR-1-6 Supplemental.

Additionally, and for the sake of completeness, the Company is producing two scoping documents that are referenced in the Network Installation Services Proposal Letter: an Estimated Network Installation Quantities, provided as Attachment RR-1-7 Supplemental; and the Company's Network Deployment Cost Estimates spreadsheet, provided as Attachment RR-1-8 Supplemental. These scoping documents were provided to Landis+Gyr and describe the services PPL requested in order to obtain cost estimates for network installation services.

¹ Confidential Attachment RR-1-1 is identical to Confidential Attachment DIV 5-1-1, which the Company filed on April 27, 2023.

² Confidential Attachment RR-1-2 is identical to Confidential Attachment DIV 5-1-2, which the Company also filed on April 27, 2023.

Redacted



1/13/2023

Phil Walnock, Director of Product Portfolio
PPL Corporation
2 N. Ninth Street
Allentown, PA 18101

Subject: Rhode Island Energy Network Installation Pricing Estimates

Dear Mr. Walnock:

Landis+Gyr Technology, Inc. sincerely appreciates the opportunity to provide the following updated directional services and materials pricing to PPL (Customer) for its newly acquired Rhode Island Energy territory. The pricing will be updated as additional details and requirements are confirmed.

The following table represents the solution components and pricing for this project.

Solution Components and Pricing

Description	Quantity	Unit Price	Extended Price
AMI FAN Equipment Installation			
3-Radio Network Gateway, Inside Substation	█	█	\$359,351.38
1-Radio Network Gateway, Inside Substation	█	█	\$292,907.61
3-Radio Network Gateway, Outside Substation	█	█	\$904,174.44
1-Radio Network Gateway, Outside Substation	█	█	\$499,110.00
Network Router, Outside Substation	█	█	\$1,703,628.80
Back Office & Field Operations Support, monthly	█	█	\$1,828,042.38
Professional Services Training	█	█	\$52,000.00
Make-Ready Services and Materials			
Installation, 10 kVA Conventional Single-Phase Overhead Transformer	█	█	\$66,697.02
Material Cost, 10 kVA Conventional Single-Phase Overhead Transformer	█	█	\$347,982.18
Installation or Replacement, 60' Class 2 Wood Distribution Pole	█	█	\$342,182.88
Material Cost, 60' Class 2 Wood Distribution Pole	█	█	\$260,987.22

Redacted



Description	Quantity	Unit Price	Extended Price
Installation, 75' Steel Pole	█	█	\$329,913.86
Material Cost, 75' Steel Pole	█	█	\$605,926.00
Material Cost, Metal Cabinet	█	█	\$202,245.60
Material Cost, Service Disconnect Switch	█	█	\$50,562.08
Network Maintenance Support			
Dedicated Crew for FAN Equipment Support, weekly	█	█	\$425,832.33
Total:			\$8,273,263.48

Clarifications

Time & Material Rates

1. Additional support not scoped is available via Time & Material invoicing at the rates below:

Description	Rate
Installation Crew, Hourly (includes 40' Bucket Truck and 2 unionized Linespersons, straight-time)	█
Electrical power modification through span work, up to 75', materials included	█

AMI FAN Equipment Installation

2. 1-Radio and 3-Radio Network Gateway (Inside Substation) and 3-Radio Network Gateway (Outside Substation) installation pricing includes a joint-site walk with PPL supervisor, Landis+Gyr FSR, and Vendor Engineers, delivery of draft and as-built engineering drawings, installation of device inside pre-fabricated cabinet, cabinet and service disconnect switch mounting onto pole below 10' AGL, equipment energization, and installation of remote antennas at 65' AGL (inside substation), or per Landis+Gyr Network Design parameters. Pricing excludes modifications required to substation control houses and underground trenching, if applicable.
3. 1-Radio Network Gateway and Network Router (Outside Substation) installation pricing includes Landis+Gyr standard hardware bracketing, equipment energization, and mounting to existing utility poles at 25' AGL, per Landis+Gyr Network Design and PPL engineering parameters. Engineering design work, if required, is not included in these pricing items.

Redacted



4. It is assumed secondary power will be available on the selected pole for all equipment energization at the time of installation. Modifications will be subject to other prices listed herein.
5. It is assumed all devices will utilize internal cellular communications for backhaul; external cellular modems or fiber / telecommunication work is not included.
6. Any ancillary materials not identified in Landis+Gyr’s product installation and user guides which are required by PPL, will be reimbursed at material cost + 10%.
7. Back Office & Field Operations Support costs include: field site surveys and completion of PPL survey checklist for 100% of installation sites, RF spectrum and cellular analysis for Network Gateway installations, contract and workforce management, warehousing and inventory storage, quality field auditing, reporting, data-collection and dispatch software, safety personnel, and other overhead costs incurred.
8. Back Office & Field Operations Support resources are described in the table below:

Role	Description
Landis+Gyr Resources	
Program Manager	The Program Manager will direct project team personnel to perform their respective functions including planning, deployment, training, testing, and regularly communicating with PPL and for critical support events. The Program Manager has overall account ownership and accountability and serves as the primary point of contact for all Landis+Gyr matters.
Technical Implementation Manager (TIM)	Reporting to the Program Manager, the TIM will lead and manage the technical team, which is responsible for meeting all system performance goals and metrics. The TIM will coordinate system integration planning and implementation, configure Network Equipment to PPL specifications, troubleshoot AMI HE system and Network Equipment, serve as Test Lead by planning and overseeing support of sector and system acceptance testing, and direct and execute necessary system upgrades in close coordination with PPL.
Network Design Engineer (NDE)	The NDE will be responsible for high-level and detailed RF design of the required FAN Equipment infrastructure within PPL’s service territory. The NDE will design the locations as validated by Landis+Gyr’s RF Technicians and PPL to build out the complete infrastructure of the AMI System.
Technical Implementation Engineer (TIE)	Reporting to the TIM, the TIE will assist overall project implementation by providing support in integration, business process development, troubleshooting, documentation, system monitoring, resolution of defects, and provide supplemental training in system operation and maintenance.

Redacted



Role	Description
Field Application Engineer	The Field Application Engineer will lead FAN Equipment troubleshooting, performance assessments and optimization activities. The Field Application Engineer specializes in the FAN Equipment components of the system and understands how FAN Equipment interacts with the AMI HE system, supporting key features such as configuration upgrades, FAN Equipment performance, and optimization.
Meter Systems Engineer (MSE)	The MSE will document FAN Equipment and meter programming requirements in coordination with PPL for their FAN Equipment and AMI Electric Meter orders. The MSE will provide first article testing (“FAT”) support and support the Project in their role as an SME for the Gridstream® products. The MSE will facilitate FAN Equipment and AMI Electric Meter workshops to detail the capabilities of the FAN Equipment and AMI Electric Meter. In addition, the MSE will gather PPL’s requirements for AMI Electric Meter programs, resulting in AMI Electric Meter programs for PPL’s written approval and use during the FAT process.
Data Support Engineer (DSE)	The Data Support Engineer will provide analytical and office support for all FAN Equipment troubleshooting and optimization activities. The DSE will provide data and recommendations to the TIM, Program Manager, and PPL team members. The DSE will support requests to troubleshoot FAN Equipment problems, as well as sector and system acceptance testing, and will coordinate with PPL operations staff as appropriate.
Network Deployment Manager	The Deployment Manager will lead and coordinate the Deployment Plan with PPL and oversees the RF Technicians and FAN Equipment installation subcontractors, which are responsible for deploying and managing the FAN Equipment in accordance with the Deployment Plan. The Deployment Manager will closely work with logistics resources to manage supply of materials required for achieving the Deployment Plan as well as daily performance targets and milestones, and will troubleshoot and escalate issues for effective problem resolution. The Deployment Manager will manage any customer complaints or claims and report resolution to PPL.
Field Services Representative (FSR), or RF Technician	Before and throughout the deployment of FAN Equipment, RF Technicians will perform field site validation surveys (which include RF spectrum and cellular analysis and completion of survey checklist), configure FAN Equipment, and support subcontracted installation crews. The RF Technician will also perform live and post installation audits of FAN Equipment.
Installation Vendor Resources	
Project Manager	The Project Manager will direct project personnel to perform their respective functions including deployment planning, coordination and oversight of make-

Redacted



Role	Description
	ready work, FAN Equipment installations, training its staff, managing customer complaints or claims, and regularly communicating progress with Landis+Gyr and PPL.
Safety Manager	<p>The Safety Manager is a local, designated safety representative who has field experience within the scope of work and must have a background in safety or a related field (i.e. worked as a safety person or safety degree or OSHA 10 or 30 hour Outreach program in 1910 General Industry or 1926 Construction Standards or a combination of work or experience in a safety related field) whose responsibilities shall include but not be limited to:</p> <ul style="list-style-type: none"> • Supports daily safety activities • Work-site audits, to include live and post installation audits • PPL-specific training • Oversees drug & alcohol policy and testing • Attends scheduled safety meetings <p>Performs near miss, close call, and injury investigations</p>
Warehouse Supervisor	The Warehouse Supervisor has overall responsibility for the support personnel and facilities which store PPL FAN Equipment and other materials needed to conduct the work. The Warehouse Supervisor reports on inventory levels and places necessary orders to sustain an agreed-upon level of materials, as well as supports Landis+Gyr with RMA activities for defective equipment.
Field Services Crews	The Field Services Crews are responsible for executing approved make-ready work and installations of FAN Equipment per Landis+Gyr installation guides and PPL policies.

9. Back Office & Field Operations Support is expected to occur over 18 months (January 2024 – June 2025).
10. Pricing excludes unique state or local permitting fees (township or building permits), rights of way, and agreements. Such costs will be charged back at cost.
11. Custom installation scenarios not depicted in scoping document titled ‘RIE Network Install Estimates’ shared on November 20, 2022 (to include pedestal mounts, decorative poles, etc) will be charged at T&M rate or in a separately priced SOW.
12. It is assumed timely access will be provided for all work required within PPL substations. Delays beyond one hour will incur standby charges at T&M rates.

Redacted



13. Listed unit installation pricing can be used for optimization activities required to meet network performance requirements. These optimization activities are expected to take place no later than 6 months beyond the targeted sector completion date. For example: Westerly Sector finishes network installations in May 2024, meter installations finish October 2024, optimization activities shall complete no later than November 2024. For optimization activities required after 6 months, T&M rates will be charged for necessary out-of-sector travel.

Make-Ready Services and Materials

14. Quantities listed are estimates and will be confirmed and approved at the completion of each location's site survey.
15. Transformer installation only includes the mounting and energization of equipment on existing pole; additional span installation or running of primary/secondary power not located on existing pole is excluded. Quantities listed correlate with new wood pole installation quantities and may increase based on existing infrastructure and survey results.
16. 60' Class 2 Wood Distribution Pole installations do not include considerations for additional poles required to be installed adjacent to offset gradual inclines of primary lines. Such work will be identified during pre-site walks and charged separately based on time and materials required.
17. Metal cabinet pricing is only for the cost of a utility-grade metal cabinet, sized at 36"Hx24"Wx12"D. Any fabrication work or associated materials required to support Network Gateway installation are not included. Quantities listed correlate with inside substation and new wood pole installation quantities, and may increase depending on existing infrastructure or PPL direction.
18. Service Disconnect Switch quantities listed correlate with metal cabinet quantities, and may increase depending on existing infrastructure or PPL requirements.
19. The following activities are not included in pricing: fiber or telecommunication work, modifications required to substation control houses, underground trenching, rock-drilling, obstruction clearances necessary for pole replacement or installation, spoilage handling, environmental considerations, special disposal requirements, or associated permitting.
20. Other make-ready activities not included in pricing are subject to further scoping discussions and pricing: pole top extensions, antenna mast installations, and custom mounting brackets.
21. Material pricing is based on [REDACTED] rates and are subject to change based on market conditions at time of order and/or work performed.
22. Standard lead time for product shipment can vary, and upon receipt and confirmation of your purchase order, an estimated shipment date will be provided. Current lead times: transformer: 48 weeks, wood pole: 20 weeks, steel pole: 26 weeks.

Redacted



Make-Ready Services and Materials

23. Ongoing network maintenance during the project will be performed by a dedicated unionized crew, on one agreed-upon 10-hour workday per week (M-F), beginning at the first sector's meter installation start (6/1/24) and completing at Final Project Acceptance (12/31/2025), estimated at 83 weeks duration. After Final Project Acceptance, services are expected to transition to a separate maintenance agreement not costed herein.
24. Typical activities include: device replacement, on-site device troubleshooting, or other operational or maintenance activities required to maintain performance of the AMI Network.
25. Network Maintenance Support crew includes the use of one (1) 40' Bucket Truck and two (2) qualified Linespersons.
26. Overtime and double time charges are not included in pricing but can be provided upon request.
27. Emergency callout services and applicable rates are not included in pricing but can be provided upon request.
28. Rates and included are pursuant to applicable local I.B.E.W. agreements, rates, and provisions.
29. In the event the full ten hour shift is not utilized for ongoing maintenance activities, incurred costs will be charged at provided T&M rate.

General Clarifications

30. This quote is valid for 90 days.
31. It is assumed that Landis+Gyr and PPL will enter an Agreement to include pricing for associated Landis+Gyr Network Equipment and these Services and Materials.
32. Landis+Gyr warrants that its material will materially comply with the applicable engineering standards provided for a period of [REDACTED] days from the date of delivery. Landis+Gyr warrants that its installation and make-ready services will be provided in a professional workmanlike manner and the services warranty period is for a period of [REDACTED] months after performing a service.
33. Landis+Gyr's pricing is subject to change due to any annual increase in CPI as defined in applicable Agreement.
34. While Landis+Gyr endeavors to make the content of its marketing materials timely and accurate, Landis+Gyr makes no claims or promises about the accuracy, adequacy, or completeness of, and expressly disclaims liability for errors and omissions in, such materials. No warranty of any kind, express, implied, or statutory, including without limitation warranties of non-infringement of third-

Redacted

Landis+Gyr

party rights, title, merchantability, and fitness for a particular purpose, is provided in connection with the content of such marketing materials.

35. This proposal contains confidential and trade secret information of Landis+Gyr. Except as otherwise specified in a non-disclosure agreement regarding Landis+Gyr's confidential information, Landis+Gyr authorizes use and disclosure of the content of this proposal only as necessary for evaluation of Landis+Gyr's proposal, or as required by law. No other license rights are intended or implied
36. No bonds or letters of credit are included in Landis+Gyr's pricing.
37. Landis+Gyr's pricing does not include sales tax. This will be added to the invoices, as applicable.

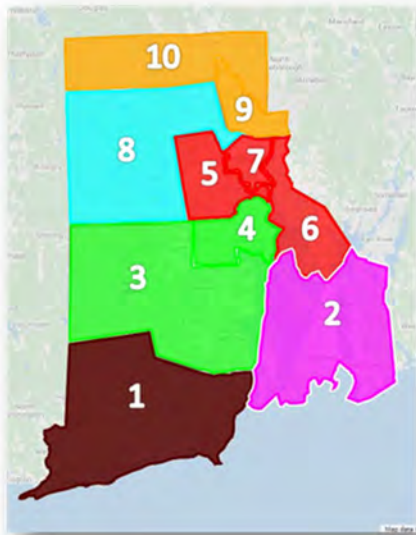
We look forward to taking this next step with you and welcome the opportunity to further define a Gridstream solution to address your needs. If you have any questions, please contact Matt Berestecky at (508) 681-5725 or matt.berestecky@landisgyr.com.

Sincerely,



Ander Smith
Director, Commercial Operations

1.1. ESTIMATED Network Installation Quantities



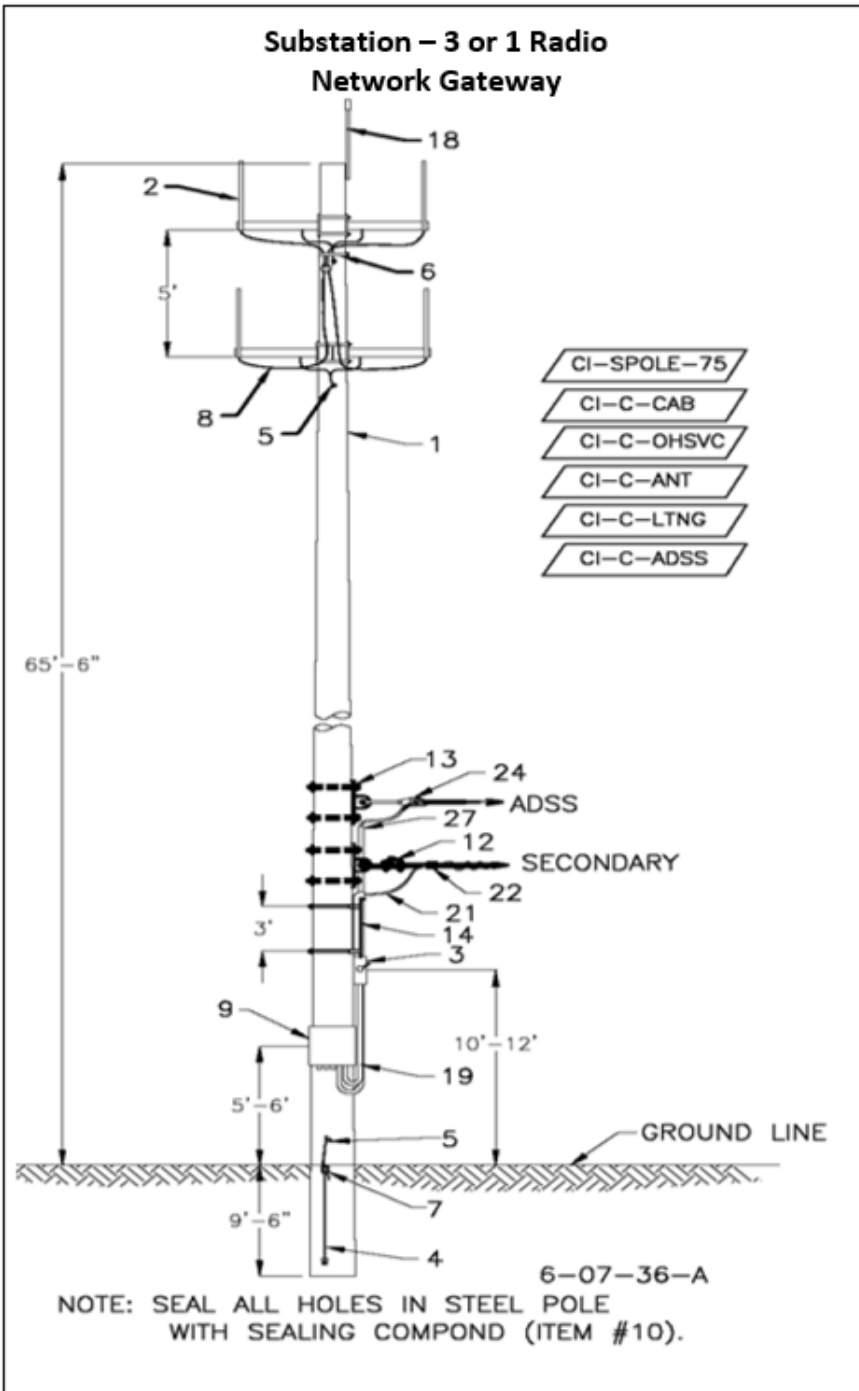
Seq #	Sector	Network Router	1 Radio Gateway	3 Radio Gateway
1	Westerly	261	91	6
2	Middletown	109	49	8
3	North Kingstown - W	302	74	4
4	North Kingstown - E	32	16	19
5	Providence -W	63	27	12
6	Providence - E	32	13	13
7	Providence	19	7	25
8	Chopmist	266	60	4
9	Lincoln - E	48	17	14
10	Lincoln - W	148	48	4
		1,280	402	109

1.2. Installation Schedule

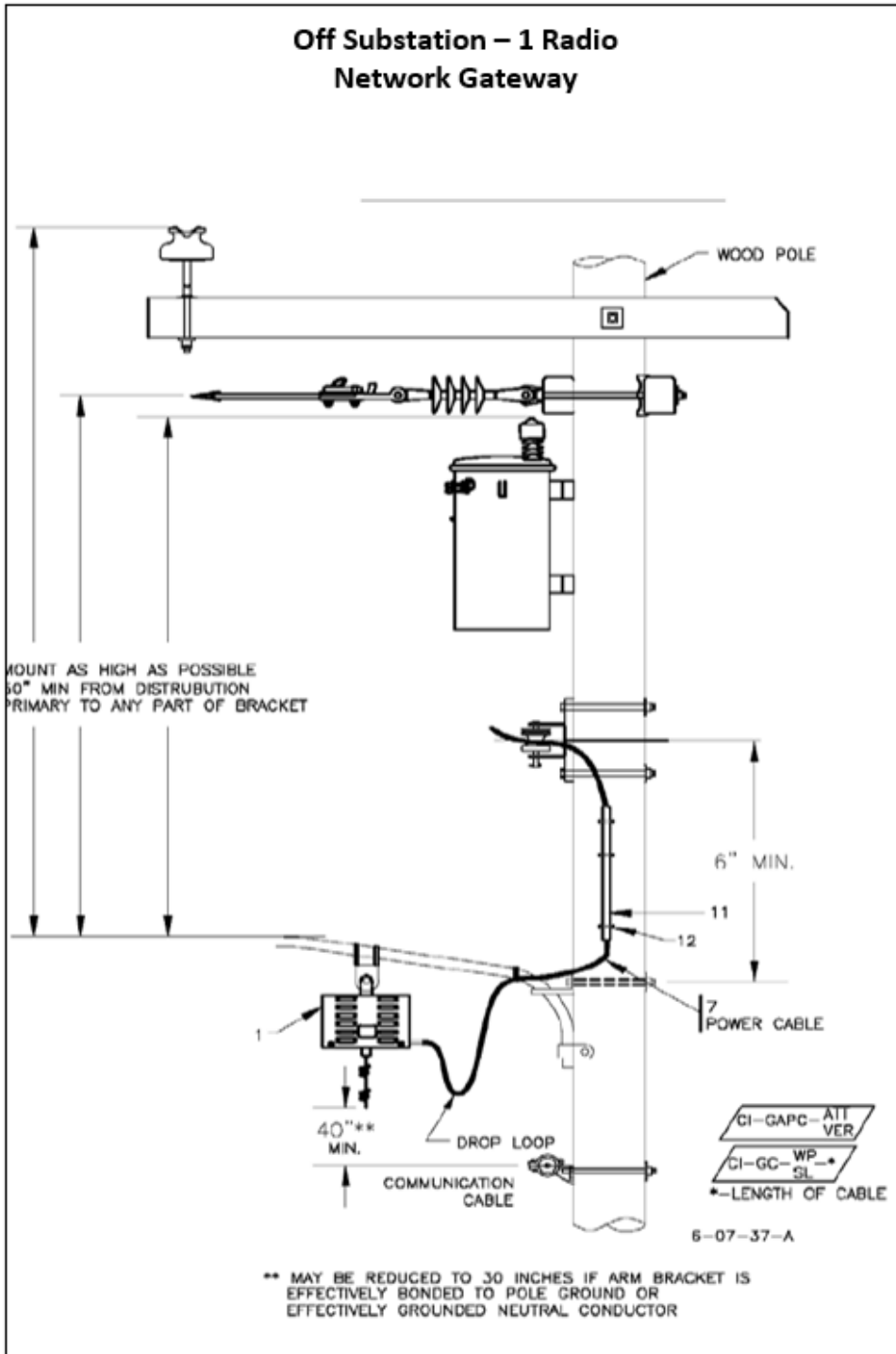
The following schedule provides an estimated timeline based on quantities of Network Devices per each Rhode Island Sector.

AMF Deployment Plan			Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	
Network Deployment Execution																				
1	Westerly																			
2	Middletown																			
3A	North Kingston-W																			
3B	North Kingston-E																			
4A	Providence - W																			
4B	Providence - E																			
4C	Providence																			
5	Chopmist																			
6A	Lincoln-E																			
6B	Lincoln-W																			

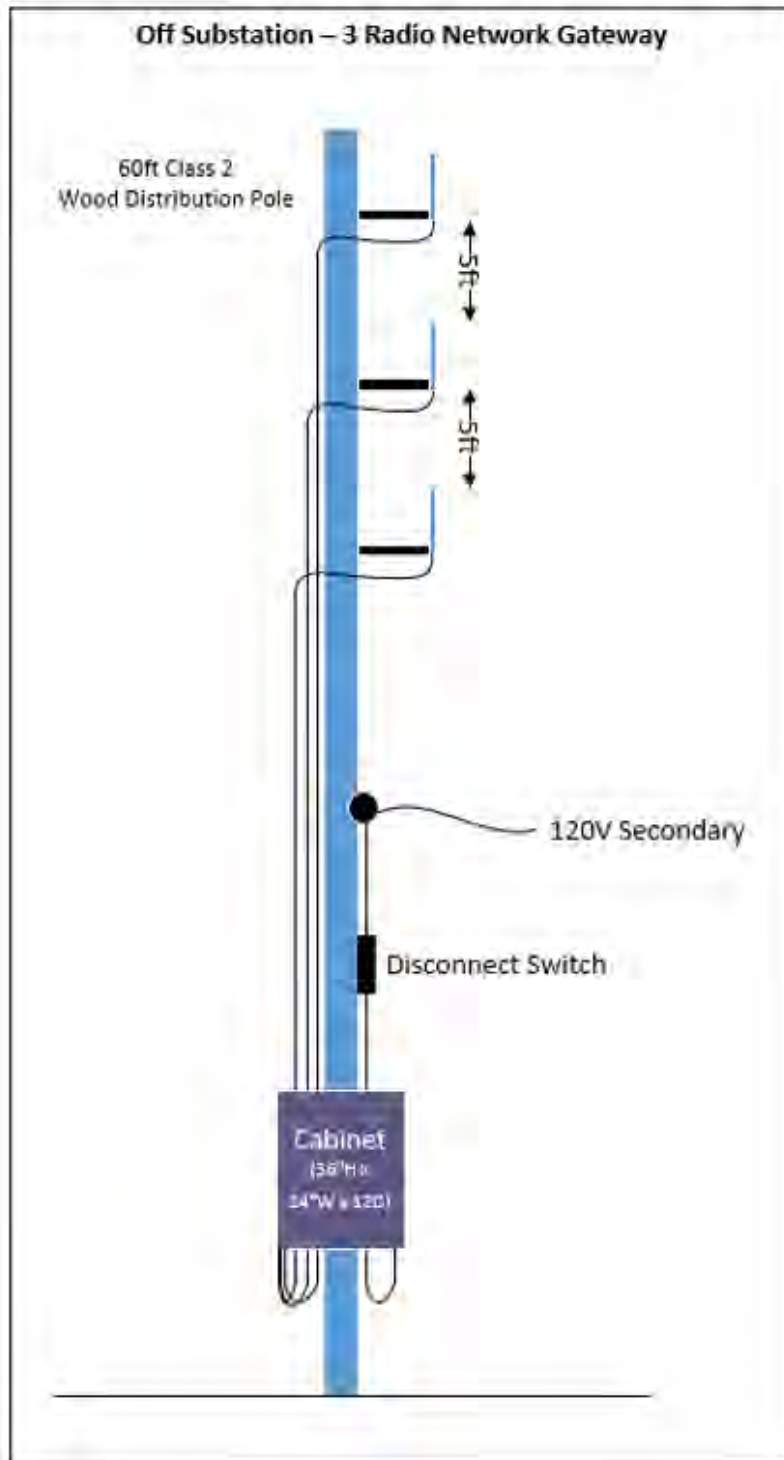
1.3. Engineering Specification DRAFTS
1.3.1. Substation 3 or 1 Radio Network Gateway



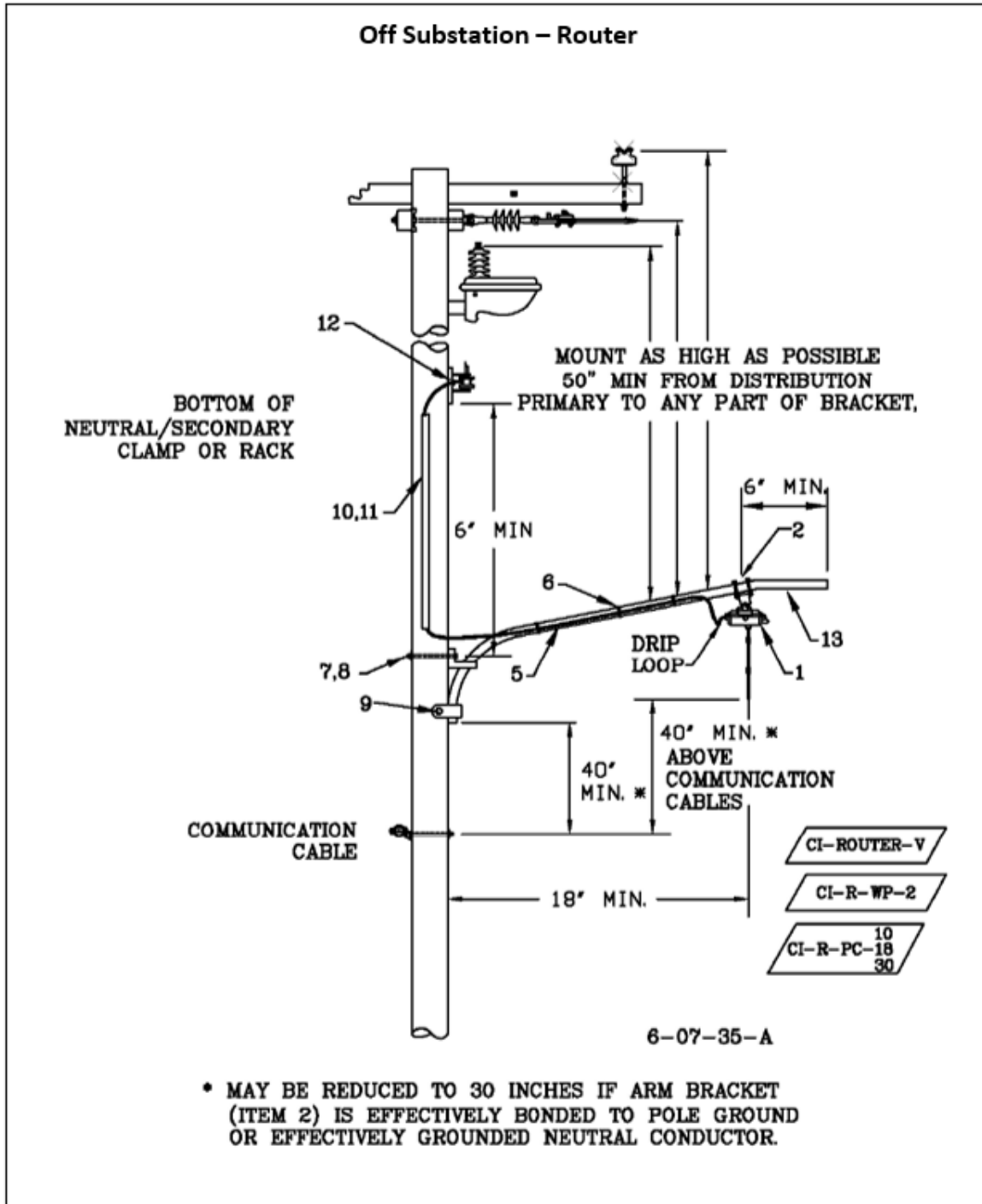
1.3.2. Off Substation – 1 Radio Network Gateway



1.3.3. Off Substation – 3 Radio Network Gateway



1.3.4. Off Substation - Router



PPL Network Deployment
Project: Rhode Island Energy AMF
Cost Sheet

Date: 11/17/22

Pricing #	Work Category	Description	Unit Cost	Assumptions
1	Site Design & Installation	Substation - 1 or 3 Radio Network Gateway (cabinet, pole)		Includes Site Design [Survey Checklist, Cellular Analysis, Engineering Design] & installation [pole, cabinet, and ancillary equipment hardware & installation]
2	Site Design & Installation	Off-substation - 3 Radio Network Gateway (cabinet, wood distribution pole)		Includes Site Design [Survey Checklist, Cellular Analysis, Engineering Design] & installation [pole, cabinet, and ancillary equipment hardware & installation]
3	Site Design & Installation	Off-substation - 1 Radio Network Gateway		Includes Site Design & installation of device[using existing poles, no cabinet], quote with ancillary equipment included
4	Site Design & Installation	Off-substation - Routers		Includes Site Design & installation of device[using existing poles, no cabinet], quote with ancillary equipment included
5	Back Office & Field Ops Support	Monitor & Manage [provide staffing approach and costs]		Total Cost of Support; Provide Staffing Approach Write Up for Back Office Support & Field Operations Teams for project lifecycle.

Make Ready

Pricing #	Work Category	Description	Unit Cost	
6	Make Ready	Transformer Installation Cost		Install Only
7	Make Ready	Wood Distirbution Pole Install/Replacement		Install Only
8	Make Ready	Steel Pole - New		Install Only
9	Make Ready	T&M Rate (hourly)		Any services outside of included Make Ready support (pole installs)

Materials

Pricing #	Description	Cost per Unit
10	Pole (Steel)	
11	Pole (Wood Distribution)	
12	Cabinet	
13	Transformer	

Sub-Contractors (List Major sub-contractor trades)		Trade
Company		


CERTIFICATE OF SERVICE

I hereby certify that on June 5, 2023, I sent a copy of the foregoing to the service list by electronic mail.

/s/ Adam M. Ramos

CERTIFICATE OF SERVICE

I certify that a copy of the within documents was forwarded by e-mail to the Service List in the above docket on the 5th day of June, 2023.



Adam M. Ramos, Esq.

The Narragansett Electric Company d/b/a Rhode Island Energy
Docket No. 22-49-EL Advanced Meter Functionality (AMF)
Service list updated 4/17/2023

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