

Broadband Pole Replacement Program Webinar

NCDIT Broadband Infrastructure Office

Feb. 22, 2024



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Today's Agenda

- Program Overview and Reminders
- Application Processes
- Pole Replacement Program Map
- Data Templates
- NC BIO Data Exchange
- Tracking and Reporting
- Questions and Next Steps

Broadband Pole Replacement Program Overview

- Purpose: to speed and facilitate the deployment of broadband service to individuals, businesses, agricultural operations, and community access points in areas unserved with broadband
- Funding under this program is available to communications service providers that have incurred eligible pole replacement costs in connection with qualified projects to provide qualifying internet access service in unserved areas of the state
- Applicants for the program must be approved under the Statewide IT Convenience Contract (09 NCAC 06B.0701 (c)) resulting from the Broadband Expansion and Access RFP
- The RFP and Convenience Contract set out the state and federal terms and conditions for this program

High-Level Reminders

- American Rescue Plan Act – SLFRF funding - \$100M (Revenue Replacement)
- Reimbursement – 50% of eligible pole replacement costs paid by the applicant or \$10,000, whichever is less
- Eligible costs incurred after June 1, 2021
- S.L. is conflicting – General Fund authorized until Dec. 30, 2026, but also says program language expires on Dec. 31, 2024
- ARPA SLFRF funds must be obligated by Dec. 31, 2024
- Processing on a first-come, first-served basis
- Once 70% of funding disbursed, NCDIT will release additional guidance on evaluation and prioritizing of remaining reimbursement requests
- Asking prequalified vendors to provide projections on numbers of eligible poles

Key Definitions

- Eligible applicants: “Communications Service Providers” as defined in N.C.G.S. § 62-350(e)
- Pole owner: a city or cooperatively organized entity that owns utility poles
- Qualifying internet access service: Fixed, terrestrial internet access service that is capable of speeds of 100 Mbps or faster (upload and download), pursuant to ARPA guidelines
- Qualified project: A project undertaken by a communications service provider, that is not affiliated with a pole owner, seeking to provide qualifying internet access service on a retail basis to one or more households, businesses, ag operations or community access points in an unserved area
- Broadband service: terrestrially deployed internet access service with transmission speeds of at least 25 Mbps download and at least 3 Mbps upload.
- Unserved area: An area in which fixed terrestrial broadband service at speeds of at least 25/3 Mbps is unavailable. A pole shall be presumed to be located in an unserved area if the pole is located in an area that is the subject of a federal or state grant to deploy broadband service, the conditions of which limit the availability of a grant to unserved areas

Areas with Federal or State-funded Broadband Projects

- For qualified project areas that receive federal or state funding, the following requirements must be met:
 - The rules or terms of the state or federal program funding broadband deployment in that area must not disallow these complementary pole replacement costs to be funded through the program
 - The eligible reimbursement costs submitted for reimbursement under the program must not be reimbursed or otherwise included in the underlying broadband deployment grant award costs or matching funds for that program
 - Providers are responsible for compliance with underlying funding programs, including but not limited to ensuring that the rules of the program do not prohibit reimbursement for pole replacement costs
 - Certifications required within the application form, including certification that all costs submitted are eligible and have not been funded by any other broadband grant programs

Public Dashboard on Application Information

Items to publish at www.ncbroadband.gov:

- Number of applications received, processed, rejected – including reasons applications were rejected
- Amount of each reimbursement, total number of reimbursements, and status of pending reimbursements
- Estimated remaining balance in the program special fund

Information will be updated monthly

Broadband Pole Replacement Program

Steps to Participate

- Visit ncbroadband.gov/polereplacement for full details
- Use Pole Replacement Map to reference eligible areas
- Ensure your data team has credentials to access NC BIO Data Exchange
- Email broadbandmapping@nc.gov with data contact info to request credentials
- Use Project Area and Reimbursement Form to submit eligible project info to us for approval
- Use Project Area and Reimbursement Form to submit pole data for reimbursement for approved projects, on a rolling basis

Broadband Pole Replacement Program

Application Information

See Application and Reimbursement Instructions at ncbroadband.gov/polereplacement

One-Time Application Materials:

- Application Form
- Updated Corporate Organizational Chart
- Documentation of Affordability Program
- Byrd Anti-Lobbying Form
- Substitute W-9
- Vendor Electronic Payment Form

Once application is approved, applicants can submit requests for reimbursement

Broadband Pole Replacement Program

Application Lifecycle

- Application submitted with Project Area and Reimbursement Form
- Suggest that applicants submit small reimbursement first
- Project area approved
- Pole locations verified (must be within the approved project area)
- Application packet considered "complete" and moved to the review team
- Verification of pole ownership and costs reviewed
- Back-up documentation required
- Application considered "reimbursable" and moved into the fiscal process
- Payments issued

Reimbursement Requests – Back-up Documentation

In addition to the reimbursement form, request must include back-up documentation for all costs.

Documentation may include items such as invoices, agreements with pole owners or contractors, copies of checks, etc.

Documentation must reflect:

- Costs incurred
- Evidence showing pole replacement costs have been paid by the applicant
- Completion of pole replacement and dates of work completed

NC OneMap Broadband Page

Broadband Program Maps & Data

nconemap.gov/pages/broadband

The screenshot shows the top navigation bar with the NC OneMap logo and links for DATA PROJECTS, ANNOUNCEMENTS, TERMS, CONTACT US, HELP, and ABOUT. Below the navigation is a large banner image of a road through a forest with the text "North Carolina Broadband" and "Discover Geographic Data Related to Broadband Availability, Adoption, and Related To". A blue sidebar on the left contains a refresh icon and a share icon. Below the banner is a text block: "The NC Broadband Infrastructure Office serves as statewide resource for broadband access, first res communications and classroom connectivity initiatives led by the State of North Carolina. Mapping an integral role in identifying current broadband access and adoption in an effort to identify the pot unserved or underserved areas around the state." Below this is a light blue box with text: "Questions or comments about Broadband in NC? Please visit <http://www.ncbroadband.gov/con> For broadband-specific mapping questions, please email: Broadbandmapping@nc.gov." At the bottom is a white box titled "County Profiles" with text: "Download maps of broadband service and funding for each county in North Carolina. Maps have been updated to reflect current grant funding from the GREAT Grant and CAB Grant Programs. Last update: 11/28/23 (version 7)." A QR code is located at the bottom left of the page.

The screenshot shows the "Planning" section of the page. It features a title "Planning" and a description: "Data and applications related to Broadband Project Planning for grant efforts by Federal and State government organizations aimed at expanding broadband access across North Carolina." Below this is a call to action: "Take the North Carolina Broadband Survey and get added to the map!" with a link: <https://www.ncbroadband.gov/broadband-nc/north-carolina-broadband-survey>. The section contains three cards: 1. "NC Broadband Funding" with a map thumbnail and a description: "This funding data and map reflects the most accurate data possible from the FCC location data for all Federal, State, and Local funding programs." 2. "Broadband Planning" with a hexagonal pattern thumbnail and a description: "Completing Access to Broadband (CAB) planning dashboard provides many datasets useful for project planning purposes." 3. "Survey Results Map" with a map thumbnail showing survey results and statistics: "37.8k", "10.1k", and "1.0k". Each card has "Data" and "View" buttons.

How H3 Hexbin Sizes Work



Broadband Pole Replacement Program



H3 Hexagon Size	Average Diameter	Approximate Area
Level 6	4.41 mi ²	14 mi ²
Level 7	1.67 mi ²	2 mi ²
Level 8	0.63 mi ²	0.28 mi ²

Pole Replacement Program Map

NCDIT NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY
Pole Replacement Program Eligible Areas

Program Filter

program is: - All -

grantee is: - All -

grant_county is: - All -

project_id is: - All -

Apply Cancel

Unsaved Filter

Apply Cancel

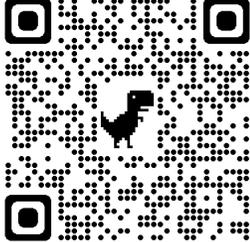
CLICK HERE TO VIEW TOOL HELP DOCUMENT

Pole Replacement Program Eligible Location January 2024

OBJECTID	GRID_ID	Sum unit_count	Count of Points	program	grantee	grant_county
1	872ad400cfffff	1	1	Broadband Infrastructure ...	NC Global TransPark Auth...	GREENE
2	872ad4381fffff	1	1	Broadband Infrastructure ...	NC Global TransPark Auth...	JONES
3	872ad438efffff	4	3	Broadband Infrastructure ...	NC Global TransPark Auth...	JONES

There is currently no added data.

+ Click to add data



<https://experience.arcgis.com/experience/46181323f9304eb995f9194ba270f693>

Pole Replacement Program Map

NCDIT NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY
Pole Replacement Program Eligible Areas

Program Filter

program is
- All -

grantee is
- All -

grant_county is
- All -

project_id is
- All -

Apply Cancel

Unsaved Filter

Apply Cancel

Pole Replacement Program Eligible Location January 2024

OBJECTID	GRID_ID	Sum unit_count	Count of Points	program	grantee	grant_county	project_id
1	872ad400cfffff	1	1	Broadband Infrastructure ...	NC Global TransPark Auth...	GREENE	2608
2	872ad4381fffff	1	1	Broadband Infrastructure ...	NC Global TransPark Auth...	JONES	2608
3	872ad438efffff	4	3	Broadband Infrastructure ...	NC Global TransPark Auth...	JONES	2608
4	872ad4387fffff	1	1	Broadband Infrastructure ...	NC Global TransPark Auth...	JONES	2608

There is currently no added data.

+ Click to add data

Pole Replacement Program Map

NCDIT NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY
Pole Replacement Program Eligible Areas
☰ ☰

50 mi

Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, NPS, USFWS Powered by Esri

Program Filter

program is
- All -

grantee is
- All -

grant_county is
- All -

project_id is
- All -

Apply Cancel

Unsaved Filter

Apply Cancel

CLICK HERE TO VIEW TOOL HELP DOCUMENT
CLICK HERE TO DOWNLOAD FULL ELIGIBLE

There is currently no added data.

+ Click to add data

Pole Replacement Program Eligible Location January 2024

OBJECTID	GRID_ID	Sum unit_count	Count of Points	program	grantee	grant_county	project_id
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3	872ad438efffff	4	3	Broadband Infrastructure ...	NC Global TransPark Auth...	JONES	2608
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Pole Replacement Program Map

NCDIT
NORTH CAROLINA
DEPARTMENT OF
INFORMATION
TECHNOLOGY
Pole Replacement Program Eligible Areas

Program Filter

program is: Rural Digital Opportunity Fund

grantee is: Spectrum

grant_county is: - All -

project_id is: - All -

Apply Cancel

Unsaved Filter

Apply Cancel

CLICK HERE TO VIEW TOOL HELP DOCUMENT

CLICK HERE TO DOWNLOAD FULL ELIGIBLE

Pole Replacement Program Eligible Location January 2024

OBJECTID	GRID_ID	Sum unit_count	Count of Points	program	grantee	grant_county	project_id
2073	872a8b048fffff	2	2	Rural Digital Opportunity ...	Spectrum	ALAMANCE	7839
2074	872a8b049fffff	20	19	Rural Digital Opportunity ...	Spectrum	ALAMANCE	7839
2075	872a8b04bfffff	9	9	Rural Digital Opportunity ...	Spectrum	ALAMANCE	7839
2076	872a8b160fffff	2	2	Rural Digital Opportunity ...	Spectrum	ALAMANCE	7839

Pole Replacement Program Map

NCDIT NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY
Pole Replacement Program Eligible Areas

Program Filter

program is:

grantee is:

grant_county is:

project_id is:

Unsaved Filter

[CLICK HERE TO VIEW TOOL HELP DOCUMENT](#)

[CLICK HERE TO DOWNLOAD FULL ELIGIBLE](#)

Pole Replacement Program Eligible Location January 2024

OBJECTID	GRID_ID	Sum unit_count	Count of Points	program	grantee	grant_county
1	872ad400cfffff	1	1	Broadband Infrastructure ...	NC Global TransPark Auth...	GREENE
2	872ad4381fffff	1	1	Broadband Infrastructure ...	NC Global TransPark Auth...	JONES
3	872ad438efffff	4	3	Broadband Infrastructure ...	NC Global TransPark Auth...	JONES
4	872ad43a2fffff	4	2	Broadband Infrastructure ...	NC Global TransPark Auth...	JONES

Add data ✕

Search URL File

Supported formats: Shapefile, CSV, KML, GeoJSON.

Drop or browse to upload

There is currently no added data.

Pole Replacement Program Map

NCDIT NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY
Pole Replacement Program Eligible Areas

Selection tool

+

-

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↻

Selection mode

Partially or completely within

Completely contained by

Van Hook Crossroads

2 mi

Program Filter

program is:

grantee is:

grant_county is:

project_id is:

Unsaved Filter

Pole Replacement Program Eligible Location January 2024

OBJECTID	GRID_ID	Sum unit_count	Count of Points	program	grantee	grant_county	project_id
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4	872ad4382fffff	4	3	Broadband Infrastructure ...	NC Global TransPark Auth...	JONES	2608

There is currently no added data.

+ Click to add data

State of North Carolina DOT, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS | North Carolina Ge... Powered by Esri

[CLICK HERE TO VIEW TOOL HELP DOCUMENT](#)
[CLICK HERE TO DOWNLOAD FULL ELIGIBLE](#)

Project Area and Reimbursement Form Instructions



Instructions for submission of Project Area Data: Complete the ProjectAreaData tab and save it as a CSV file, using the Project Area Data Dictionary below as reference. Project Areas must be approved as eligible projects before pole data for that project will be reviewed. In your CSV filename, the word "Template" should be replaced with "ProjectArea[ID]" where [ID] = the ProjectID or equivalent (see ProjectID description below).

Instructions for submission of Pole Data: You may submit pole data simultaneously or at any time once you have submitted data for the associated Project Area, and NCBI/O will review pole data after it has approved any eligible project areas. Enter the data on the PoleData tab following the instructions for each field in the Pole Locations Data Dictionary below. Once the PoleData tab is complete, save it as a CSV file to be submitted to the NCBI/O Data Exchange Platform. Simply replace the word "Template" in the filename with the ProjectID or equivalent (see ProjectID description below), Please submit a separate CSV file for each separate project, represented by a value in the ProjectID field (this value should therefore be the same for all pole locations within an individual CSV file).

For all completed CSV files, please replace the "YYMMDD" in your CSV filename with the date on which the file is being submitted. The first two digits are for the year, the second two for the month and last two for the day. This will assist us in correctly capturing the most current file if multiple files are submitted over time.

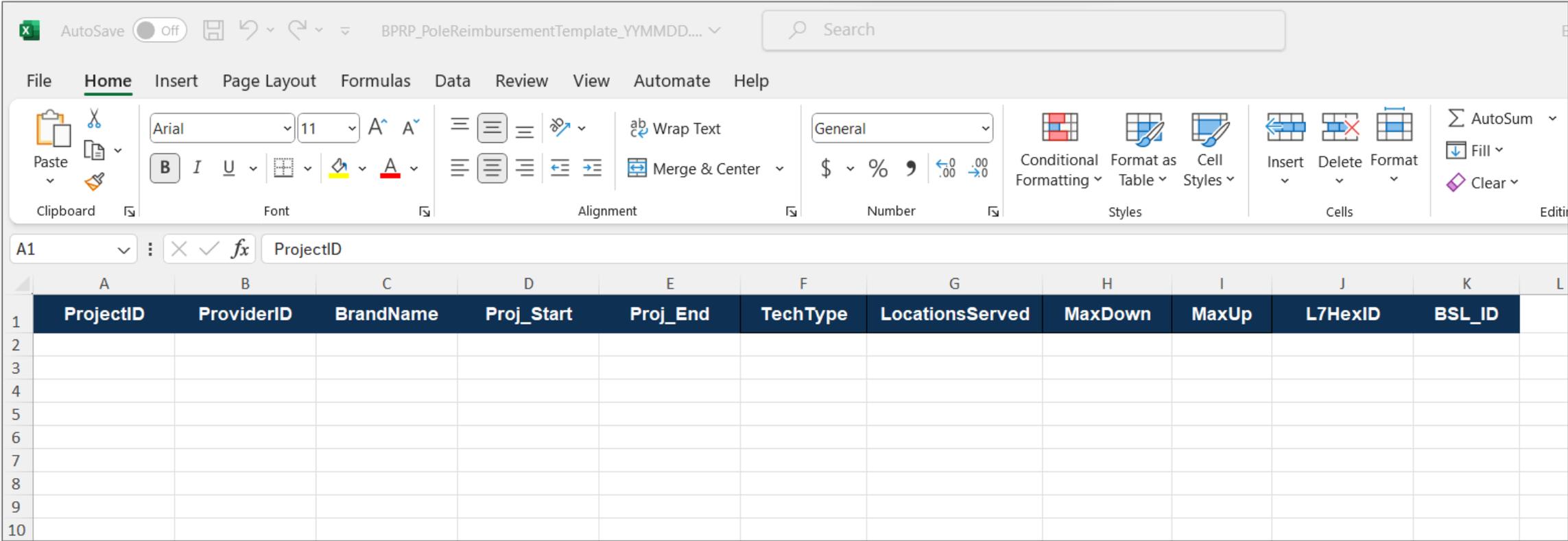
All completed CSV files, whether exported from the ProjectAreaData tab or the PoleData tab of this template, should be uploaded to the NCBI/O Data Exchange Platform at <https://assets.gis.nc.gov/apps/ncbio-data-exchange/index.html>. There you will find a subfolder named "BPRP" (for Broadband Pole Replacement Program) in which to place these files.

This template was last updated: 2/21/2024

Project Area and Reimbursement Form

Project Area Data Dictionary		
Field Name	Example	Description
ProjectID	2608	Enter the project ID if available. For federally funded projects, this value is the Project ID assigned to the project by the FCC in the national broadband funding map, and is found in the NCPIO Pole Replacement Map found at https://www.nconemap.gov/pages/broadband . For NCPIO state funded projects, this value is the contract number, also found in the Pole Replacement Map. For locally or privately funded projects, please enter "LF-" or "PF-" respectively, followed by a number or text string of your choosing (no spaces, 25 character maximum). Otherwise, a project ID will be assigned by NCPIO for locally or privately funded projects.
ProviderID	123456	FCC-issued ID for broadband provider that aligns with the entity that files or will file BDC data for the project area that contains this pole location. Must match the ProviderID found in PoleData tab.
BrandName	Acme Broadband	A name the broadband provider uses to offer service to the public
Proj_Start	1/31/2023	The date when funding for the broadband Project was first committed (contract execution or public announcement)
Proj_End	12/31/2023	The date by which all deployment was/is to be completed for the Project.
TechType	50	The primary wireline technology used by the Provider to make service available in this project area. These values match those used in BDC reporting. - Value is one of the following codes: 10 – Copper Wire, 40 – Coaxial Cable/HFC, 50 – Optical Carrier/Fiber to the Premises, 70 – Unlicensed Terrestrial Fixed Wireless, 71 – Licensed Terrestrial Fixed Wireless, 72 – LBR Terrestrial Fixed Wireless, 0 – Other
LocationsServed	25	Estimated number of unserved locations where broadband access was/will be made available as a result of this project.
MaxDown	50	Maximum download speeds in Mbps that was/is to be available as a result of this project
MaxUp	10	Maximum upload speeds in Mbps that was/is to be available as a result of this project
L7HexID	872ad2874ffffff	(For locally or privately funded projects only) The GRID_ID value for each relevant project area hexagon, found on the NCPIO Pole Replacement Map. These hexagons are Uber H3 level 7 hex cells, which are approximately 2 square miles in area. A hexagon can be included if any part of it overlaps with the original project area or project locations.
BSL_ID	1140909527	(For locally or privately funded projects only) Numeric location ID's, from the CostQuest Broadband Serviceable Location (BSL) fabric, which comprise the locally or privately funded project locations. The BSL fabric dataset is available to broadband providers through a CostQuest Tier D license. All other fields in this template should speak as accurately as possible to the unique location ID's listed in this field, and may repeat as project area details are applicable to many individual BSL's.

Project Area and Reimbursement Form

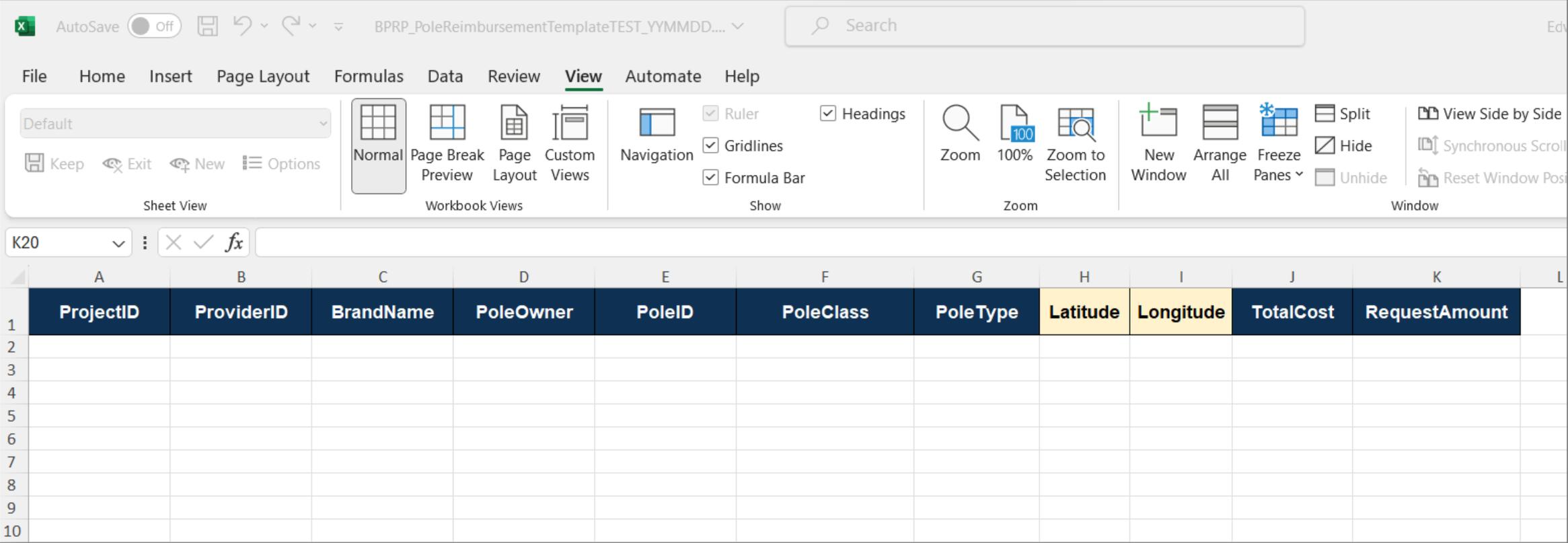


Organize Project Area Data into these fields and export to CSV, per the template instructions.

Project Area and Reimbursement Form

Pole Locations Data Dictionary		
Field Name	Example	Description
ProjectID	PF_2608	Enter the project ID if available. For federally funded projects, this value is the Project ID assigned to the project by the FCC in the national broadband funding map, and is found in the NCPIO Pole Replacement Map found at https://www.nconemap.gov/pages/broadband . For NCPIO state funded projects, this value is the contract number, also found in the Pole Replacement Map. For locally or privately funded projects, please enter "LF-" or "PF-" respectively, followed by a number or text string of your choosing that corresponds to this project specifically (no spaces, 25 character maximum). Otherwise, a project ID will be assigned by NCPIO for locally or privately funded projects.
ProviderID	123456	FCC-issued ID for broadband provider that aligns with the entity that files or will file BDC data for the project area that contains this pole location
BrandName	Acme Broadband	A name the broadband provider uses to offer service to the public
PoleOwner	Candy Mountain EMC	The company who owns each individual pole
PoleID	CMEMC-1299	The unique identifier for each individual pole, such as the tag number
PoleClass	6	The class for each individual pole, such as codes 1-10 or H1-H6, defined by the American National Standards Institute (ANSI)
PoleType	Metal	The type of each individual pole, such as wood, metal, concrete, or other (if other, please describe in one or two words)
Latitude	35.461258	The latitude for the pole in Decimal Degrees, WGS84 coordinate system
Longitude	-71.880975	The longitude for the pole in Decimal Degrees, WGS84 coordinate system
TotalCost	5000.86	The total eligible costs to replace each individual pole, in dollars, and cents if necessary, as a decimal
RequestAmount	2500.43	The reimbursement request amount for each individual pole. IMPORTANT: The sum of all values in the reimbursement request amount column should match the total reimbursement request amount on the application form. <i>A communications service provider that pays for or incurs the costs of removing and replacing an existing utility pole in connection with a qualified project may be reimbursed an amount equal to 50% of eligible pole replacement costs paid or incurred by the applicant or \$10,000, whichever is less, for each pole replaced.</i>

Project Area and Reimbursement Form



Organize Pole Location Data into these fields and export to CSV, per the template instructions.

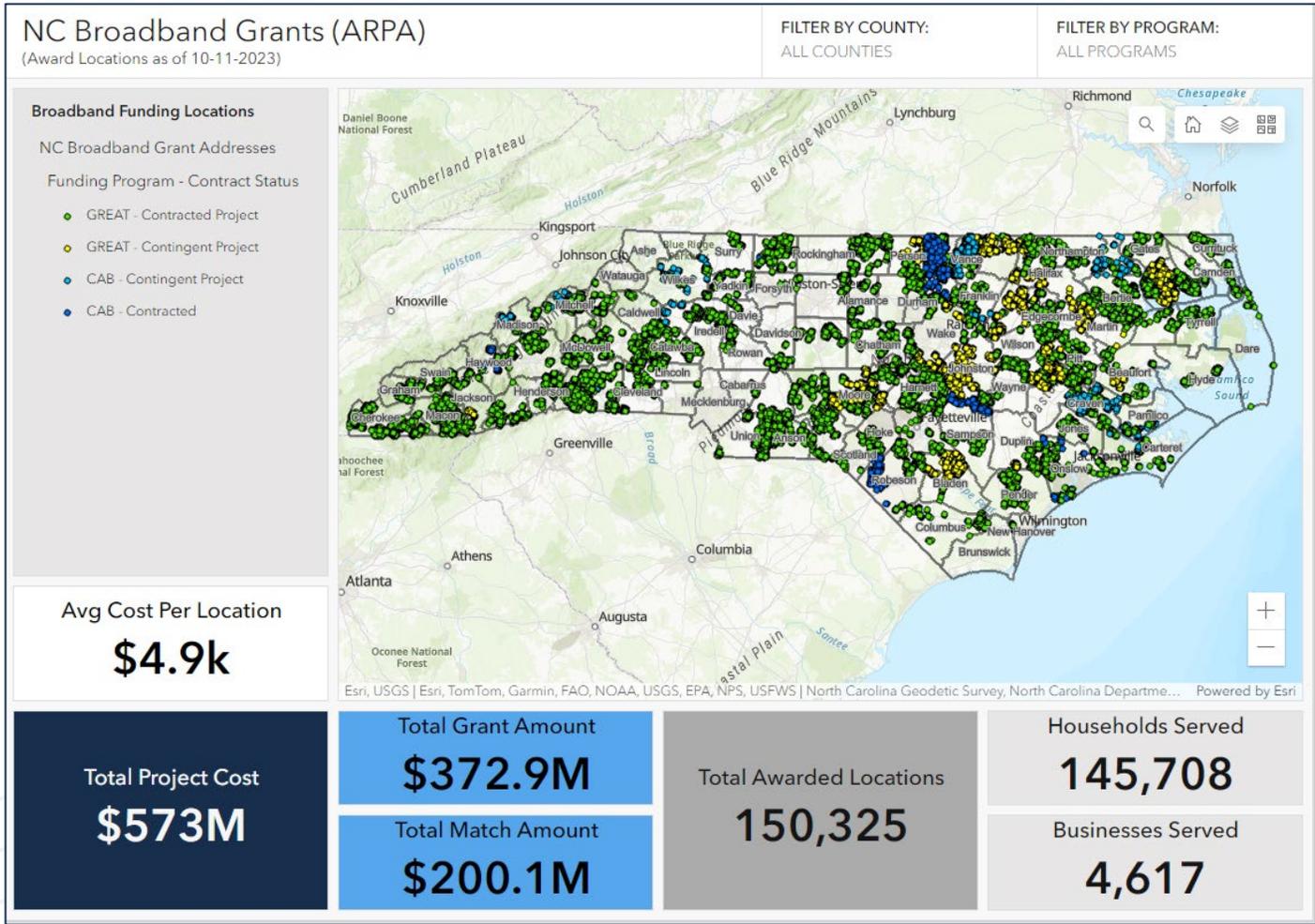
NCBIO Data Exchange

- Amazon Web Services “buckets”
- Upload files securely from browser
- Broadband providers each have a private folder, and a “BPRP” subfolder
- Data contacts = authorized representative(s) from application form
- If other data contact, send data contact’s name, email and phone number to broadbandmapping@nc.gov
- Secure credentials issued to each provider data contact (shared credentials)
- Instructions are provided to data contacts



Accountability & Transparency

Broadband Project Tracking and Reporting



Pole Replacement Tracking

- Project areas approved for reimbursement
- H3 level 7 hexagons where one or more pole replacements are approved for reimbursement
- Stats on fund dispersal statewide
- Stats on total pole replacements reimbursed

Next Steps and Questions

Please add your questions in the chat feature.

If you have additional questions later, email us at polereplacement@nc.gov.