



REQUEST FOR PROPOSAL Dark Fiber Infrastructure

Issued October 18, 2023, Responses Due November 29, 2023

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2 Project Information

2.1 About Pershing County

Pershing County covers 6,067 square miles of Northern Nevada and is bordered by Washoe, Humboldt, Churchill, and Lander counties. The City of Lovelock serves as the County Seat. Pershing County's population is approximately 6,650. Pershing County has approximately 100 full- and part-time employees working in 11 facilities. The County currently relies on a Dedicated Internet service and MP-VPN (Switched Ethernet on Demand) network from AT&T to provide internet and networking services to the main county facilities, and direct commodity internet connections at its other facilities from multiple vendors.

2.2 Project Objective

Pershing County intends to construct fiber-based network infrastructure owned by and for the sole use of Pershing County to improve the broadband capabilities of County facilities and provide cost-effective, secure, and maintainable network services to County facilities and staff.

2.3 Project Overview

Pershing County desires to select a single vendor, or a team of vendors working together through a single point-of-contact, to design, construct, and test a dark fiber network to as many County-owned facilities as reasonable and, optionally, supplementing with a fixed wireless solution for more remote facilities. The resulting dark fiber infrastructure will be owned directly by Pershing County. Which transport methods are desired for which facilities are defined in *Section 2.3.1 - Pershing County Facilities*.

As a fiber optic network would be a significant investment of County resources, the Pershing County Information Technology Department ("PCIT") wishes to ensure that the network design allows for resilience, scalability, and performance to support the current and future needs of Pershing County for the transmission of data, voice, and video based on best practice network methodology for several years to come. A successful proposal will include:

- A proposed design for a dark fiber network that covers, at a minimum, the four required facilities in Table 1 - Fiber Required Facilities in Section 2.3.1.1 - Required Facilities.
 - Proposal may be for aerial or buried dark fiber, or both, whichever is most appropriate and most cost-effective for each branch.
- Optional proposed design add-ons to additional facilities (see *Table 2 - Additional Optional Facilities - Fiber Preferred*)
 - While fiber is preferred, additional facilities may be connected into a point-to-point fixed wireless network.
 - Additional facilities should be itemized as add-ons to the base project that can be removed if the vendor is selected.
- Quotes and specifications for all ordering, delivery, and warehousing of materials for network infrastructure construction.

- A specification and quote for the construction of the layer one infrastructure (fiber or fixed wireless).
- A specification for a warranty against damage or defects for a period of no less than one (1) year.
- Diagrams, in printed and electronic formats, of proposed network infrastructure.
- Vendors shall be responsible for obtaining any applicable permits should their proposal include special construction.

2.3.1 Pershing County Facilities

Pershing County operates 14 facilities within the County, ten (10) of which are within the city limits of Lovelock.

2.3.1.1 Required Facilities

The four primary facilities below require service on the fiber network. The backbone should terminate at the Pershing County Sheriff's Office as the hub of the County network.

HUB	Pershing County Sheriff's Office	395 9 th Street Lovelock, NV 89419	(40.179232°, -118.476223°)
BRANCH	Pershing County Courthouse	400 Main Street Lovelock, NV 89419	(40.180914°, -118.476612°)
BRANCH	Pershing County Administration Building	398 Main Street Lovelock, NV 89419	(40.180985°, -118.475807°)
BRANCH	Pershing County Annex	535 Western Avenue Lovelock, NV 89419	(40.180041°, -118.477949°)

Table 1 - Fiber Required Facilities

2.3.1.2 Additional Optional Facilities – Fiber Preferred

The facilities in the following table may be served via fixed wireless, but it is preferred that they are served by fiber. A vendor is allowed to present both options and to group facilities that are close together as a single itemized entry on their proposal (e.g., serving both the facilities at 795 Western Avenue as one entry). Any fixed wireless solution should be backed by fiber and be no further than one (1) hop away from a fiber termination. These items should be itemized as add-ons that are removable from the final order.

BRANCH	Pershing County Community Center	820 6 th Street Lovelock, NV 89419	(40.176711°, -118.481271°)
BRANCH	11 th District Court Youth and Family Services Office	795 Western Avenue Lovelock, NV 89419	(40.179958°, -118.482803°)
BRANCH	Pershing County Buildings & Grounds Shop	795 ½ Western Avenue Lovelock, NV 89419	(40.179610°, -118.482827°)
BRANCH	Senior Citizen Center	630 Western Avenue Lovelock, NV 89419	(40.180298°, -118.479494°)
BRANCH	Pershing County Family Resource Center	775 Cornell Avenue Lovelock, NV 89419	(40.178103°, -118.476519°)
BRANCH	Marzen House Museum	25 Marzen Lane Lovelock, NV 89419	(40.170437°, -118.482388°)
BRANCH	Pershing County Road Department	1075 Arobio Lane Lovelock, NV 89419	(40.179799°, -118.496679°)

BRANCH	Derby Field Airport	1500 Derby Field Road Lovelock, NV 89419	(40.070440°, -118.569321°)
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Table 2 - Additional Optional Facilities - Fiber Preferred

2.3.1.3 Available Pershing County-Owned Assets

- Toulon Peak Radio Tower (40.118015°, -118.727659°)
- Sheriff's Office Radio Tower (40.179232°, -118.476223°)
- Juniper SRX 320 Firewalls
 - Administration Building (x1)
 - Annex Building (x1)
 - Sheriff's Office (x1)
 - Courthouse (x1)
- HPE Aruba 2930F Switches
 - Administration Building (x2)
 - Annex Building (x1)
 - Sheriff's Office (x2)
 - Courthouse (x3)

2.4 RFP Schedule

The overall timeline for proposals and project completion are as follows:

Event	Date
RFP Issuance	October 18, 2023
Last Day for Questions	5:00 PM on November 3, 2023
Responses to Questions	5:00 PM on November 10, 2023
Proposals Due	5:00 PM on November 29, 2023
Bid Opening Date	Commissioners Meeting on December 6, 2023
Selection Date	Commissioners Meeting on December 20, 2023
Funding Available/Anticipated Project Start	July 1, 2024

Table 3 RFP Schedule

Note: Pershing County reserves the right to adjust this schedule as necessary.

2.5 Pershing County RFP Contacts

Questions and concerns about this RFP may be directed to the Pershing County IT Manager:

Pershing County IT Department
ATTN: Justin Abbott
P.O. Box 736
340 Main Street
Lovelock, NV 89419
E-Mail: jabbott@pershingcountynv.gov
Phone: (775) 442-0102 ext. 2401

Completed and sealed proposals should be received by the Pershing County Clerk-Treasurer's Office no later than 5:00 PM on November 29th, 2023:

Pershing County Clerk-Treasurer
ATTN: 2024 Infrastructure RFP
P.O. Box 820
398 Main Street
Lovelock, NV 89419

3 Proposal Preparation

3.1 Proposal Contents

The proposal must provide a summary of the firm's qualifications to perform the duties outlined in the requested services section. A complete proposal should include the following sections and statements:

- 1) Cover Letter
 - a) "Proposal may be released in total as public information in accordance with the requirements of the laws covering same." (Proprietary information must be clearly marked)
 - b) "Proposal and cost schedule shall be valid and binding for one (1) year following proposal due date and will become part of the project that is negotiated with Pershing County."
 - c) Name, title, address, e-mail address, and telephone number of the person or persons to contact who are authorized to represent the firm and to whom correspondence should be directed.
 - d) Proposals must state proposer's federal and state taxpayer identification numbers.
- 2) Proposal Summary
- 3) General Supplier Information
 - a) Customer Reference
 - b) Examples of Prior Work
- 4) Scope of Services. The scope of services section should include the following:
 - a) The scope should include development and design objectives for the County network design. The objectives must be defined sufficiently to direct network designs for 10 to 15 years and will include such objectives as increased reliability of County administrative computing functions and data storage, increased protection against cyber security threats, increased accessibility, flexibility, and expansion, increased use of cloud-based services and enhanced network security for both business and NCJIS-standards restricted networks.
 - b) A detailed view of the tasks included in new network design, network construction, and network equipment acquisition/provisioning, including:
 - i) A timeline for the new network design.
 - ii) A timeline for construction of new network infrastructure.
 - iii) A timeline for test and eventual turnover of the infrastructure/transport medium to Pershing County.
 - c) The transport medium fiber/fixed wireless or other transport medium proposed to service each Pershing County location.
 - d) The timeline for order, receipt, test, and installation of the equipment necessary to provision the new network infrastructure, as applicable.
 - e) The scope of work included in the warranty technical support of the network equipment (if applicable) and transport medium.

- 5) Price Proposal - The proposal price will be the total dollar amount of all services, materials, taxes, shipping, travel, lodging, meals, and labor described herein inclusive of warranties and shipping. The proposal amount is to be held firm for at least one (1) year from the proposal opening date. All prices quoted must include:
- a) All costs related to the completion of the current network assessment and completion of the proposed new network design.
 - b) All costs of the proposed equipment necessary to make the system specified fully operational for the intended function and purpose stated herein.
 - i) All costs related to network design and engineering of the equipment.
 - ii) All costs related to the order, receipt, storage, test, installation, and provisioning of new network.
 - c) All costs in fiber/fixed wireless or other transport medium construction, including:
 - i) All labor and materials.
 - ii) All permitting, pole attachment fees, easement fees.
 - iii) All project management costs.
 - iv) All engineering costs including any environmental assessments.
 - v) All other costs related to construction preparation, construction planning, and construction work.
 - d) All costs of other activities proposed by the vendor as part of this project.
 - e) All applicable taxes (Federal, State, and Local). Pershing County is exempt from Nevada sales tax and can provide a letter of exemption if necessary.

NOTE: In addition to the included forms, Vendor must provide at least one example report from previous similar work. Sensitive customer information may be redacted if necessary.

3.2 Questions Regarding the RFP

Requests for clarification are encouraged. Vendors who request a clarification of the RFP requirements must submit written questions to the RFP Coordinator by 4:00 PM Pacific on November 3, 2023. An email attachment sent to jabbott@pershingcountynv.gov is acceptable. Responses to all questions submitted by this date will be posted on the Pershing County website (www.pershingcountynv.gov) by 5:00 PM Pacific on November 10, 2023.

Pershing County reserves the right to deny access to this information to individuals it cannot authenticate as a legitimate contractor or service firm. This is not a process to deny any firm from responding to the RFP, but to ensure that the information remains only in the hands of qualified bidders and limit risk.

3.3 Proposal Preparation Costs

The Vendor is responsible for all costs incurred by the Vendor or their subcontractors in responding to this request for proposal.

3.4 Confidential and Proprietary Information

Pershing County is subject to the Freedom of Information Act and the Nevada Open Meeting Statute ([NRS 241](#)). Vendors must understand that information and other materials submitted in response to this RFP or in connection with any contract because of this RFP may be subject to disclosure as a public record. Therefore, submission of trade secrets or proprietary information or materials is discouraged. Confidential information in the RFP should be clearly marked.

4 Submission

4.1 Submission Process

Proposals should be sealed and submitted to the Pershing County Clerk-Treasurer's Office at the following address by November 29th, 2023:

Pershing County Clerk-Treasurer
ATTN: 2024 Infrastructure RFP
398 Main Street
P.O. Box 820
Lovelock, NV 89419

Proposals may be submitted by hand delivery or via mail.

5 Selection

5.1 Approval by Board of Commissioners

Proposals will be opened at the Pershing County Board of Commissioners Regular Meeting on December 6, 2023. The final contract award is subject to approval by the Pershing County Board of Commissioners during the regular meetings held the first and third Wednesday of each month.

Funding for the selected proposal will be subject to approval by the Pershing County Board of Commissioners during the Fiscal Year 24-25 Budget Preparation activities. No proposals will be considered as awarded until the FY24-25 Budget is finalized.

If approved for the FY24-25 Budget, funding will be available for the project beginning July 1, 2024. Materials and labor may not be ordered or invoiced to Pershing County before this date.

5.2 Selection Criteria

Vendors will be evaluated based on the following selection criteria.

5.2.1 Proposal Adherence to RFP

- 1) Proposal includes all requested information from *Section 3.1 - Proposal Contents* (**Automatic Disqualification**).
- 2) The sealed proposal is submitted on time (**Automatic Disqualification**).

5.2.2 Experience

- 1) Success with similar projects. Vendor should include reference contact information (**1 Point**).
- 2) Pertinent experience, qualifications, certifications, and past performance of proposed personnel that will be directly involved in providing services, including Subcontractors, in similar government environments (**1 Point**).

5.2.3 Proposal Specifications

- 1) The proposal defines a dark fiber network owned by Pershing County to the facilities defined by *Table 1 - Fiber Required Facilities* in *Section 2.3.1.1* (**Automatic Disqualification**).
- 2) The proposal defines a warranty against damage or defect for a period of at least one (1) year (**1 point per year**).
- 3) The proposed network design meets the specifications laid out in *Section 6.1 - Appendix A: Fiber Construction Guidelines* (**1 Point**)

5.2.4 Proposal Costs

- 1) All proposals are ranked in order from lowest cost (highest ranking) to highest cost (lowest ranking). **Points equal to the number of proposals received are awarded to the lowest cost proposal, one point less to the next highest, etc.**

5.2.5 Optional Facilities

Items in this section are only considered after the above requirements and serve as additional value to the proposal. Proposals that include optional facilities are higher preference than those that only provide required facilities.

- 1) The proposal includes additional facilities defined in *Table 2 - Additional Optional Facilities - Fiber Preferred* in *Section 2.3.1.2* (**1 point per facility**).
 - a) The included optional facilities defined in in *Table 2 - Additional Optional Facilities - Fiber Preferred* in *Section 2.3.1.2* are served by dark fiber transport (**1 point per facility**).
 - b) The included optional facilities defined in in *Table 2 - Additional Optional Facilities - Fiber Preferred* in *Section 2.3.1.2* are served by wireless **and** proposal includes purchasing, installation, and provisioning of wireless equipment (**1/2 point per facility**).

6 Appendices

6.1 Appendix A: Infrastructure Construction Guidelines

6.1.1 General Specifications

6.1.1.1 Survey

- Comply with all ordinances and regulations. Where required, secure permits before placing or excavating on private property, crossing streams, pushing pipe, or boring under streets and railways. Pre-survey shall be done prior to each job.
- If a buried proposal, the respondent will locate underground lines of third parties in cable route area.

6.1.1.2 Permits and Traffic Control

- The respondent must adhere to all applicable laws, rules, and requirements and must apply for permits to place infrastructure per specification per county or city ordinance applicable to where the infrastructure is being placed.
- All traffic control, in accordance with local, state, county, or permitting agency laws, regulations, and requirements, will be the respondent's responsibility. The respondent's construction schedule will take into consideration enough time for the development and approval of a traffic control plan.

6.1.2 Fiber Specifications

6.1.2.1 Material Requirements

- Material will comply with those standards as established by UL or NEMA and shall be commercial grade. All materials will be new and free from defects.
- The selected contractor and its subcontractors will provide all material management to ensure that the project remains on track according to the project milestones.
- All due caution will be exercised in transporting and off-loading all materials to prevent any damage during shipping or placement. Any damage to any materials after the initial receipt and inspection by the respondent will be the sole responsibility of the respondent, who will replace such damaged material at no additional expense to PCIT.
- If a buried proposal, all buried conduits shall be EMT (Electrical Metallic Tubing) multi-duct with at least three innerducts. EMT fitting shall be gland or set screw type, and each conduit shall be equipped with a graduated pull tape or rope.
- If a buried proposal, the exact requirements for location and type of conduit within the building shall be verified with the building owner.
- If a buried proposal, all Hand Holes shall be Nevada Department of Transportation (NDOT) approved, 45,000 lb. load-rated CDR or comparable enclosures on roadways and railways, and pedestrian-rated hand holes for non-roadways and railways.
- If a buried proposal, large-radius sweeps shall be provided where required for offset or change in direction of conduit. The bend radius rating of the cable must be adhered to for all conduit bends, pull boxes, and hand holes.

- Fiber must be single mode with the following specifications:
 - TU-T G.652.C/D compliant.
 - Maximum attenuation @ 1310nm: 0.34 dB/km.
 - Maximum attenuation @ 1385nm: 0.31 dB/km.
 - Maximum attenuation @ 1550nm, 0.22 dB/km.
- Connector types should be LC unless otherwise specified by PCIT.
- Any warranties associated with the fiber and any other outside plant materials must revert to PCIT as the fiber owner upon completion of construction.

6.1.2.2 Tracer Wire Installation

- If a buried proposal, tracer wire shall be placed with all conduits installed unless armored or traceable cable is used. The respondent will provide the tracer wire and shall install, splice, and test (for continuity) the tracer wire. If the tracer wire is broken during installation, the wire should be repaired and tested for continuity after repair.
- If a buried proposal, for multi-duct installation, install a 5/8" x 8" copper-clad ground rod in the hand-hole located on public right-of-way. Place a #12 insulated copper locate wire from the ground rod to the fiber optic termination room or place a ground rod on the outside of the building. Locate block in an accessible location. This is for "locate purposed only," not for grounding purposes. Not on as built where ground is placed, and tag located wire as "locate wire."

6.1.2.3 Depth of Burial (if a buried proposal)

- Except where otherwise specified, the cable shall be placed to a minimum depth of 36" along roadways and 24" on private property. Greater cable depth will be required at the following locations:
 - Where cable route crosses roads, the cable shall be placed at a minimum depth of 48" below the pavement or 36" below the parallel drainage ditch, whichever is greater, unless the controlling authority required additional depth, in which case the greatest depth will be maintained.
 - Where cable crosses existing sub-surface pipes, cables, or other structures: at foreign object crossings, the cable will be placed to maintain a minimum of 12" clearance from the object or the minimum clearance required by the object's owner, whichever is greater.

6.1.2.4 Highway, Railroad, and Other Bored Crossings (If a buried proposal)

- All crossings of state or federal highways and railroads right-of-way shall be made by boring and placing a pipe casing. The cable shall be placed through the pip casing. Country roads and other roadways shall be bored, trenched, or plowed as approved by the appropriate local authority.
- All work performed on public right-of-way or railroad right-of-way shall be done in accordance with requirements and regulations of the authority having jurisdiction there under.
- Respondent shall give all notices and comply with all laws, ordinances, rules, and regulations relating to the conduct of the Work as drawn.
- Where the cable route crosses railroad right-of-way, the cable shall be placed at a minimum depth of 60" below the railroad surface or 36" below the parallel drainage ditch, whichever is

greater, unless the controlling authority requires additional depth, in which case the greatest depth will be maintained.

6.1.2.5 Cable Markers (If a buried proposal)

- Cable markers shall be placed within 48 hours of cable installation. Unless the right-of-way or property owner specifies otherwise, cable markers shall be placed at all change in directions, splices, fence line crossings, at road and stream crossings, and other points on the route not more than 1,000 feet apart.
- In addition, on highway right-of-way, the markers shall be located at the highway right-of-way line. Markers shall always be located so that they can be seen from the location of the cable.

6.1.2.6 Hand Holes (If a buried proposal)

- Hand holes will be placed in accordance with standard industry practice following the specifications provided in the construction plans, typical drawings, and detail drawings. Special attention and planning must be exercised to ensure accessibility by other groups after construction has finished.
- All hand holes, unless otherwise stipulated by the drawings, will be buried with 12" to 18" of cover at final grade.
- Immediately after placement, the soil around and over the hand hole will be tamped and compacted. Should washouts occur, the respondent will be responsible for correcting the problem immediately without additional cost to PCIT.
- After cable placement, all ducts will be sealed.
- All splice hand holes/manholes will be grounded.
- A minimum of 1—' coil of cable shall be left in each hand hole/building for splicing use.

6.1.2.7 Splicing (both buried and aerial)

- Fiber to fiber fusion splicing of optical fibers at each point, including head ends, is required.
- Complete testing services, such as end to end, reel testing, and splice loss testing, ORL, power meter/laser source testing and WDM testing is required.
- Individual splice loss will be 0.10 dB for single mode unless after 3 attempts these values cannot be achieved, then the fibers will be re-spliced until a splice loss within 0.05 dB of the lowest previous attempts is achieved. Splice loss acceptance testing will be based on the fusion splicer's splice loss estimator.
- All cables to buildings shall be fusion spliced within a minimum of 50' of entering a building at a location to be determined by the owner with an existing single-mode fiber and terminated at customer's rack.

6.1.2.8 Aerial Plant

- PCIT is open to aerial fiber runs using existing utility poles, but respondent must adhere to pole owners' requirements for clearances, spans, grounding, guys, and attachments.

6.1.2.9 Testing Cable (both buried and aerial)

- The respondent shall be responsible for on-reel verification of cable quality prior to placement.
- Completed test forms on each reel shall be submitted to PCIT.
- Respondent assumes responsibility for the cable after testing. This responsibility covers all fibers in the cable.

- The respondent shall supply all tools, test equipment, consumables, and incidentals necessary to perform quality testing.
- The cable ends shall be sealed upon completion of testing.
- In addition to splice loss testing, selected respondent will perform end-to-end insertion loss testing of single-mode fibers at 1310nm and 1550 nm from one direction for each terminated fiber span in accordance with TIA/EIA-526-7 (OFSTP 7). For spans greater than 300 feet, each tested span must test to a value less than or equal to the value determined by calculating a link loss budget.

6.1.2.10 Restoration (both buried and aerial)

- All work sites will be restored to as near their original undisturbed condition as possible. All cleanup will be to the satisfaction of PCIT and any permitting agencies.
- Respondent shall provide a brief description of restoration plans in the response, with the expectation that a more detailed restoration plan will be delivered prior to beginning construction.
- Work site restoration will include the placement of seed, mulch, sod, water, gravel, soil, sand, and all other materials as warranted.
- Backfill material will consist of clean fill. Backfilling, tamping, and compaction will be performed to the satisfaction of PCIT, the representative of any interested permitting agency, and/or the railroad representative.
- Respondent will be responsible for any restoration complaints arising within one year after PCIT's final acceptance.
- Excess material will be disposed of properly.
- Debris from clearing operations will be properly disposed of by the respondent/subcontractors as required by permitting agencies or the railroad. Railroad ties, trees, stumps, or any foreign debris will be removed, stacked, or disposed of by the respondent as per requirements by other interested permitting agencies, and/or PCIT.
- Road shoulders, roadbeds, and railroad property will be dressed up at the end of each day. No payment for installation will be permitted until cleanup has been completed to the satisfaction of any permitting agencies, and/or PCIT.
- Site clean-up will include the restoration of all concrete, asphalt, or other paving materials to the satisfaction of the other interested permitting agencies, and/or PCIT.

6.1.2.11 Documentation (both buried and aerial)

As-built drawings will include:

- Fiber cable routes.
- Drawings, site drawings, permit drawings, and computerized design maps and electronically stored consolidated field notes for the entire route must include:
 - Verification of as built and computerized maps.
 - Splicing locations.
 - Optical fiber assignments at patch panels.
 - Optical fiber assignments at splice locations.
 - Installed cable length.
 - Date of installation.

- Aerial installation documents should include:
 - Pole attachment inventories.
 - Pole attachment applications.
 - Pole attachment agreements between respondent and other utilities.
 - GPS points of reference for utility poles.
 - Photo images of poles to which fiber is attached.
- Underground installation documents should include:
 - Conduit design and detailing.
 - Manhole detailing.
 - Preparation of all forms and documentation for approval of conduit construction and/or installation.
- Fiber details will include:
 - Manufacturer.
 - Cable type and diameter.
 - Jacket type: single mode.
 - Fiber core and cladding diameter.
 - Fiber attenuation per kilometer.
 - Fiber bandwidth and dispersion.
 - Index of refraction.
- OTDR documentation will include:
 - Each span shall be tested bidirectionality from endpoint to endpoint.
 - Each span's traces shall be recorded and mapped. Each splice loss from each direction and the optical length between splices as well as any of the information required by Span Map.
 - Reel acceptance.
 - Individual fiber traces for complete fiber length.
 - Paper and computer disk records of all traces.
 - Losses of individual splices.
 - Anomalies.
 - Wavelength tests and measurement directions.
 - Manufacturer, model, serial number, and date of last calibration of OTDR.
- Power Meter documentation will include:
 - Total link loss of each fiber.
 - Wavelengths tested and measurement directions.
 - Manufacturer, model, serial number, and date of last calibration for all equipment used.

6.1.3 Fixed Wireless LAN Specifications

6.1.3.1 Material Requirements

- Any physical mounting equipment should adhere to all building codes, state laws, and industry standards.
- All equipment should be rated and installed to withstand wind speeds of up to 15 miles per hour and gusts of up to 40 miles per hour.
- Radios, mounting equipment, poles, and towers that are mounted outside a building should be UV-rated.

- All outdoor cabling should be vandal proof, weather-tight, and sealed.
- Cabling shall be Category 6 or better.
- All terminations must be to patch panels at near end and jacks on far end.
- Cabling must be certified by industry standard testing tool and reports turned over to PCIT along with as-built diagrams.

6.1.3.2 Signal Strength, Signal-to-Noise Ratio, and Interference

- Signal strength on point-to-point bridge radios should be between -70 dBm and -90 dBm.
- Signal-to-Noise ratio on point-to-point radios should be between 25 dB and 65 dBm.
- Wireless access points must be positioned and mounted to provide the most direct line of site to the remote location.

6.1.3.3 Wireless Encryption

- All data in transit must be encrypted in compliance with the most recent versions of the CJIS Security Policy (at time of publication v5.9.2) and FIPS 140-3 (at time of publication: March 22, 2019 publication) using, at minimum, 128-bit AES or better encryption.
- WEP and WPA are not acceptable encryption methods.

6.1.4 References, Standards, and Codes

Specifications in this document are not meant to supersede state law or industry standards. Respondents shall note in their response where their proposal does not follow the requested specification to comply with state law or industry standard. The following standards are based upon the *Customer-Owned Outside Plant Design Manual (CO-OSP)* produced by BICSI, the *Telecommunications Distribution Methods Manual (TDMM)* also produced by BICSI, ANSI/TIA/EIA and ISO/IEC standards, and NEC codes, among others.

It is required that the respondent be thoroughly familiar with the content and intent of these references, standards, and codes and that the respondent be capable of applying the content and intent of these references, standards, and codes to all outside plant communications system designs executed on behalf of PCIT.

Listed in the table below are references, standards, and codes applicable to outside plant communications systems design. If questions arise as to which reference, standard, or code should apply in each situation, the more stringent shall prevail. As each of these documents are modified over time the latest edition and addenda to each of these documents is definitive.

Standard/Reference	Name/Description
BICSI CO-OSP	BICSI Customer-Owned Outside Plant Design Manual
BICSI TDMM	BICSI Telecommunications Distribution Methods Manual
BICSI TCIM	BICSI Telecommunications Cabling Installation Manual
	Customer-Owned Outside Plant Telecommunications Cabling Standard
TIA/EIA – 568	Commercial Building Telecommunications Cabling Standard
TIA/EIA – 569	Commercial Building Standard for Telecommunication Pathways and Spaces
TIA/EIA – 606	The Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
TIA/EIA – 607	Commercial Building Grounding and Bonding Requirements for Telecommunications
TIA/EIA - 455	Fiber Optic Test Standards
TIA/EIA - 526	Optical Fiber Systems Test Procedures
IEEE 802.3 (series)	Local Area Network Ethernet Standard, including the IEEE 802.3z Gigabit Ethernet Standard
NEC	National Electric Code, NFPA
NESC	National Electrical Safety Code, IEEE
OSHA Codes	Occupational Safety and Health Administration, Code of Federal Regulations (CFR) Parts 1910 - General Industry, and 1926 - Construction Industry, et al.

Table 4 - References, Standards, and Codes

6.2 Appendix B: Legal Notices & Definitions

6.2.1 Governing Law

This RFP and the response shall be governed by the laws of the State of Nevada.

6.2.2 Entire RFP

This RFP, any addenda to it, and any attached schedules, constitute the entire RFP. This RFP, Vendor's response, and any subsequent written communications, along with any formal, signed agreement will become part of the contract documentation governing performance of this project. Where conflicts exist, the later dated document will govern.

6.2.3 Ownership of Responses

All materials submitted, including but not limited to proposals, attachments, and supporting documents shall become the property of Pershing County and will not be returned.

6.2.4 Right of Negotiation & Refusal

Pershing County reserves the right to negotiate all final terms of the proposal, including price.

Pershing County reserves the right to reject any or all proposals, either in whole or in part, or to waive any informalities or irregularities therein that are in the best interest of the County. Pershing County also reserves the right to postpone or cancel the award or execution of a contract for any reason prior to contract execution.

6.2.5 Personal Information

Depending on the circumstances, Pershing County may require information related to the qualifications, experience, and availability of Vendors who are proposed to provide services. This may include, but is not limited to, the Vendor's income statement and balance sheet for each of the two most recently completed fiscal years certified by a public accountant, resumes, documentation of accreditation, and/or letters of reference.

Any personal information that is requested from this RFP by Pershing County shall only be used to *consider* the qualified individuals to undertake the project/services and to confirm that the work performed is consistent with these qualifications. It is the responsibility of the Vendor to obtain the consent of such individuals prior to providing the information to Pershing County. Pershing County will assume that the appropriate consents have been obtained for the disclosure to and use by Pershing County of the requested information for the purposes described.

6.2.6 Right to Request Additional Information

Pershing County reserves the right to request any additional information, which might be deemed necessary after the completion of this document.

6.2.7 Statement of Liability

Pershing County shall not be liable to any person or entity for any losses, expenses, costs, claims, or damages of any kind:

- Arising out of, by reason of, or attributable to, the Vendors responding to this RFP; or
- As a result of the use of any information, error, or omission contained in this RFP document or provided during the RFP process.

6.2.8 Consent for Criminal Justice Information Background Checks and Training

In accordance with state and federal policies, the winning Vendor may be required to sign a security addendum which specifically authorizes and restricts access to those systems. In addition, any employees which will work on CJIS-Restricted systems must consent to the following:

- Fingerprint-based background check.
- Wants and warrants checks.
- CJIS security awareness training.