

REQUEST FOR PROPOSALS FOR

Infrastructure Cabling Maintenance and Communication Systems Installation

ISSUING OFFICE

Pennsylvania Turnpike Commission

Information Technology Department

Technology Infrastructure

Communications Systems

RFP NUMBER

16-10350-7303

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PART I

GENERAL INFORMATION FOR PROPOSERS

I-1. Purpose. This request for proposals (RFP) provides interested Proposers with sufficient information to enable them to prepare and submit proposals for consideration by the Pennsylvania Turnpike Commission (Commission) to satisfy a need for **Infrastructure Cabling Maintenance and Communication Systems Installation**.

I-2. Issuing Office. This RFP is issued for the Commission by the Information Technology Department, Technology Infrastructure, and Communication Systems.

I-3. Scope. This RFP contains instructions governing the proposals to be submitted and the material to be included therein; a description of the service to be provided; requirements which must be met to be eligible for consideration; general evaluation criteria; and other requirements to be met by each proposal.

I-4. Problem Statement. The Commission is seeking a contractor who has the comprehensive skills, resources and certifications to maintain and install the voice, data, radio and auxiliary communication systems and cabling infrastructure throughout the Pennsylvania Turnpike. In addition the contractor must be able to provide any electrical services that may result from a task in this contract, provide accurate as built documentation in both Visio and AutoCad format and be able to engineer solutions for infrastructure cabling projects.

I-5. Type of Contract. It is proposed that if a contract is entered into as a result of this RFP, it will be a time and materials contract. The Commission may in its sole discretion undertake negotiations with Proposers whose proposals as to price and other factors show them to be qualified, responsible, responsive and capable of performing the work.

I-6. Contractor Integrity Provisions. Contractor Integrity Provisions will apply to this contract upon award and the awarded vendor may be required to complete a Background Qualifications Questionnaire prior to entering into an Agreement with the Commission and attend annual ethics training provided by the Commission. Proposers can find these two documents on the Commission's website at www.paturndpike.com (Doing Business, General Information, Integrity Provisions).

Include full disclosure of any potential conflict with the State Adverse Interest of State Advisor or Consultant Statute by the prime or any subconsultant. If there is no adverse interest you shall include the following statement: "I have reviewed the State Adverse Interest Statute and determined that there is no adverse interest for anyone on this Agreement team." This information should be included in your transmittal letter/cover page or executive summary.

I-7. Rejection of Proposals. The Commission reserves the right to reject any and all proposals received as a result of this request, or to negotiate separately with competing Proposers.

I-8. Subcontracting. Any use of subcontractors by a Proposer must be identified in the proposal. During the contract period use of any subcontractors by the selected Proposer, which were not previously identified in the proposal, must be approved in advance in writing by the Commission.

If a Joint Venture responds to this RFP, the Commission will not accept separate proposals from joint venture constituents. A firm will not be permitted to submit a proposal on more than one (1) joint venture for the same RFP. Also, a firm that responds to this RFP as a prime may not be included as a designated sub-consultant to another firm that responds to the same RFP. Multiple responses under any of the forgoing situations will cause the rejection of all responses of the firm or firms involved. This does not preclude a firm from being set forth as a designated sub-consultant to more than one prime consultant responding to the RFP.

I-9. Incurring Costs. The Commission is not liable for any costs the Proposer incurs in preparation and submission of its proposal, in participating in the RFP process or in anticipation of award of contract.

I-10. Questions and Answers. Written questions may be submitted to clarify any points in the RFP which may not have been clearly understood. Written questions should be submitted by email to RFP-Q@paturmpike.com with **RFP 16-10350-7303 - Infrastructure Cabling Maintenance and Communication Systems Installation** in the Subject Line to be received no later than **2:00 PM** local time on **Thursday, February 18, 2016**. All questions and written answers will be posted to the website as an addendum to and become part of this RFP.

I-11. Addenda to the RFP. If it becomes necessary to revise any part of this RFP before the proposal response date, addenda will be posted to the Commission's website under the original RFP document. It is the responsibility of the Proposer to periodically check the website for any new information or addenda to the RFP.

The Commission may revise a published advertisement. If the Commission revises a published advertisement less than ten days before the RFP due date, the due date will be extended to maintain the minimum ten-day advertisement duration if the revision alters the project scope or selection criteria. Firms are responsible to monitor advertisements/addenda to ensure the submitted proposal complies with any changes in the published advertisement.

I-12. Response. To be considered, proposals must be delivered to the Pennsylvania Turnpike Commission's Contracts Administration Department, Attention: Stephanie Newbury, on or before **2:00 PM** local time on **Thursday, March 17, 2016**. The Pennsylvania Turnpike Commission is located at 700 South Eisenhower Boulevard, Middletown, PA 17057 (Street address). Our mailing Address is P. O. Box 67676, Harrisburg, PA 17106.

Please note that use of U.S. Mail, FedEx, UPS, or other delivery method, does not guarantee delivery to the Contracts Administration Department by the above listed time for submission. Proposers mailing proposals should allow sufficient delivery time to ensure timely receipt of their proposals. If the Commission office location to which proposals are to be delivered is closed on the proposal response date, due to inclement weather, natural disaster, or any other cause, the deadline for submission shall be automatically extended until the next Commission business day on which the office is open. Unless the Proposers are otherwise notified by the Commission, the time for submission of proposals shall remain the same.

I-13. Proposals. To be considered, Proposers should submit a complete response to this RFP, using the format provided in PART II. Each proposal should be submitted in five (5) hard copies of the Technical Submittal, five (5) hard copies of the Diverse Business (DB) participation submittal, and five (5) hard copies of the Cost Submittal. In addition to the hard copies of the proposal, two **complete and**

exact copies of the entire proposal (Technical, Cost and DB submittals, along with all requested documents) on Flash Drive in Microsoft Office or Microsoft Office-compatible format. The electronic copy must be a mirror image of the hard copy. Proposer should ensure that there is no costing information in the technical submittal. The Flash drive should clearly identify the Proposer and include the name and version number of the virus scanning software that was used to scan the Flash drive before it was submitted. The Proposer shall present the proposal to the Contracts Administration Department only. No other distribution of proposals will be made by the Proposer. Each proposal page should be numbered for ease of reference.

An official authorized to bind the Proposer to its provisions must sign the proposal. If the official signs the Proposal Cover Sheet (**APPENDIX A** to this RFP) and the Proposal Cover Sheet is attached to the proposal, the requirement will be met. For this RFP, the proposal must remain valid for at least **120** days. Moreover, the contents of the proposal of the selected Proposer will become contractual obligations if a contract is entered into.

Each and every Proposer submitting a proposal specifically waives any right to withdraw or modify it, except as hereinafter provided. Proposals may be withdrawn by written or fax notice (fax number (717) 986-8714) received at the Commission's address for proposal delivery prior to the exact hour and date specified for proposal receipt.

Overnight Delivery Address:
Contracts Administration Department
Attn: Stephanie Newbury
PA Turnpike Commission
700 South Eisenhower Blvd.
Middletown, PA 17057

US Mail Delivery Address:
Contracts Administration Department
Attn: Stephanie Newbury
PA Turnpike Commission
P.O. Box 67676
Harrisburg, PA 17106

However, if the Proposer chooses to attempt to provide such written notice by fax transmission, the Commission shall not be responsible or liable for errors in fax transmission. A proposal may also be withdrawn in person by a Proposer or its authorized representative, provided his/her identity is made known and he/she signs a receipt for the proposal, but only if the withdrawal is made prior to the exact hour and date set for proposal receipt. A proposal may only be modified by the submission of a new sealed proposal or submission of a sealed modification which complies with the requirements of this solicitation.

I-14. Economy of Preparation. Proposals should be prepared simply and economically, providing a straightforward, concise description of the Proposer's ability to meet the requirements of the RFP.

I-15. Discussions for Clarification. Proposers who submit proposals may be required to make an oral or written clarification of their proposals to the Issuing Office through the Contract Administration Department to ensure thorough mutual understanding and Proposer responsiveness to the solicitation requirements. The Issuing Office through the Contract Administration Department will initiate requests for clarification.

I-16. Best and Final Offers. The Issuing Office reserves the right to conduct discussions with Proposers for the purpose of obtaining "best and final offers." To obtain best and final offers from Proposers, the Issuing Office may do one or more of the following: a) enter into pre-selection negotiations; b) schedule oral presentations; and c) request revised proposals. The Issuing Office will

limit any discussions to responsible Proposers whose proposals the Issuing Office has determined to be reasonably susceptible of being selected for award.

I-17. Prime Proposer Responsibilities. The selected Proposer will be required to assume responsibility for all services offered in its proposal whether or not it produces them. Further, the Commission will consider the selected Proposer to be the sole point of contact with regard to contractual matters.

I-18. Proposal Contents. Proposals will be held in confidence and will not be revealed or discussed with competitors, unless disclosure is required to be made (i) under the provisions of any Commonwealth or United States statute or regulation; or (ii) by rule or order of any court of competent jurisdiction. All material submitted with the proposal becomes the property of the Pennsylvania Turnpike Commission and may be returned only at the Commission's option. Proposals submitted to the Commission may be reviewed and evaluated by any person other than competing Proposers at the discretion of the Commission. The Commission has the right to use any or all ideas presented in any proposal. Selection or rejection of the proposal does not affect this right.

In accordance with the Pennsylvania Right-to-Know Law (RTKL), 65 P.S. § 67.707 (Production of Certain Records), Proposers shall identify any and all portions of their Proposal that contains confidential proprietary information or is protected by a trade secret. Proposals shall include a written statement signed by a representative of the company/firm identifying the specific portion(s) of the Proposal that contains the trade secret or confidential proprietary information.

Proposers should note that "trade secrets" and "confidential proprietary information" are exempt from access under Section 708(b)(11) of the RTKL. Section 102 defines both "trade secrets" and "confidential proprietary information" as follows:

Confidential proprietary information: Commercial or financial information received by an agency: (1) which is privileged or confidential; **and** (2) the disclosure of which would cause substantial harm to the competitive position of the person that submitted the information.

Trade secret: Information, including a formula, drawing, pattern, compilation, including a customer list, program, device, method, technique or process that: (1) derives independent economic value, actual or potential, from not being generally known to and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use; **and** (2) is the subject of efforts that are reasonable under the circumstances to maintain its secrecy. The term includes data processing software by an agency under a licensing agreement prohibiting disclosure.

65 P.S. §67.102 (emphasis added).

The Office of Open Records has determined that a third party must establish a trade secret based upon factors established by the appellate courts, which include the following:

- the extent to which the information is known outside of his business;
- the extent to which the information is known by employees and others in the business;
- the extent of measures taken to guard the secrecy of the information;
- the value of the information to his business and to competitors;
- the amount of effort or money expended in developing the information; and
- the ease of difficulty with which the information could be properly acquired or duplicated by others.

See Crum v. Bridgestone/Firestone North Amer. Tire., 907 A.2d 578, 585 (Pa. Super. 2006).

The Office of Open Records also notes that with regard to “confidential proprietary information the standard is equally high and may only be established when the party asserting protection shows that the information at issue is either ‘commercial’ or ‘financial’ and is privileged or confidential, and the disclosure *would* cause substantial competitive harm.” (emphasis in original).

For more information regarding the RTKL, visit the Office of Open Records’ website at www.openrecords.state.pa.us.

I-19. Debriefing Conferences. Proposers whose proposals are not selected will be notified of the name of the selected Proposer and given the opportunity to be debriefed, at the Proposer’s request. The Issuing Office will schedule the time and location of the debriefing. The Proposer will not be compared with other Proposers.

I-20. News Releases. News releases pertaining to this project will not be made without prior Commission approval, and then only in coordination with the Issuing Office.

I-21. Commission Participation. Unless specifically noted in this section, Proposers must provide all services to complete the identified work.

I-22. Cost Submittal. The cost submittal shall be placed in a separately sealed envelope within the sealed proposal and kept separate from the technical submittal.

I-23. Term of Contract. The term of the contract will commence on the Effective Date (as defined below) and will end in three (3) years with two (2) additional one-year optional extensions if the contractor’s work is satisfactory. The Commission shall fix the Effective Date after the contract has been fully executed by the Contractor and by the Commission and all approvals required by Commission contracting procedures have been obtained.

I-24. Proposer’s Representations and Authorizations. Each Proposer by submitting its proposal understands, represents, and acknowledges that:

- a. All information provided by, and representations made by, the Proposer in the proposal are material and important and will be relied upon by the Issuing Office in awarding the contract(s). Any misstatement, omission or misrepresentation shall be treated as fraudulent concealment from the Issuing Office of the true facts relating to the submission of this proposal. A misrepresentation shall be punishable under 18 Pa. C.S. 4904.
- b. The price(s) and amount of this proposal have been arrived at independently and without consultation, communication or agreement with any other Proposer or potential Proposer.
- c. Neither the price(s) nor the amount of the proposal, and neither the approximate price(s) nor the approximate amount of this proposal, have been disclosed to any other firm or person who is a Proposer or potential Proposer, and they will not be disclosed on or before the proposal submission deadline specified in the response section of this RFP.

- d. No attempt has been made or will be made to induce any firm or person to refrain from submitting a proposal on this contract, or to submit a proposal higher than this proposal, or to submit any intentionally high or noncompetitive proposal or other form of complementary proposal.
- e. The proposal is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive proposal.
- f. To the best knowledge of the person signing the proposal for the Proposer, the Proposer, its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last four (4) years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding or proposing on any public contract, except as disclosed by the Proposer in its proposal.
- g. To the best of the knowledge of the person signing the proposal for the Proposer and except as otherwise disclosed by the Proposer in its proposal, the Proposer has no outstanding, delinquent obligations to the Commonwealth including, but not limited to, any state tax liability not being contested on appeal or other obligation of the Proposer that is owed to the Commonwealth.
- h. The Proposer is not currently under suspension or debarment by the Commonwealth, or any other state, or the federal government, and if the Proposer cannot certify, then it shall submit along with the proposal a written explanation of why such certification cannot be made.
- i. The Proposer has not, under separate contract with the Issuing Office, made any recommendations to the Issuing Office concerning the need for the services described in the proposal or the specifications for the services described in the proposal.
- j. Each Proposer, by submitting its proposal, authorizes all Commonwealth agencies to release to the Commission information related to liabilities to the Commonwealth including, but not limited to, taxes, unemployment compensation, and workers' compensation liabilities.

I-25. Indemnification. The Proposer shall be responsible for, and shall indemnify, defend, and hold harmless the Commission and its Commissioners, officers, employees, and agents from any claim, liability, damages, losses, causes of action, and expenses, including reasonable attorneys' fees, arising from damage to life or bodily injury or real or tangible personal property caused by the negligence or other tortious acts, errors, and omissions of Proposer, its employees, or its subcontractors while engaged in performing the work of the Agreement or while present on the Commission's premises, and for breach of the Agreement regarding the use or nondisclosure of proprietary and confidential information where it is determined that Proposer is responsible for any use of such information not permitted by the Agreement. The indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for Contractor or its subcontractors under Workers' Compensation Acts, Disability Benefits Acts, or other Employee Benefit Act.

I-26. Prevailing Wage Rates. The Provisions of the Pennsylvania Prevailing Wage Act of August 15, 1961, P.L. 987 as amended, together with the rates and regulations promulgated by the Secretary of Labor and Industry, may be applied to certain projects.

I-27. Insurance. Proposer will comply with the Insurance requirements as described in **APPENDIX B** - Insurance Specification.

I-28. Diverse Business (DB) Requirements. Proposer will comply with the DB Requirements as described in **APPENDIX C** – Diverse Business (DB) Requirements.

PART II

INFORMATION REQUIRED FROM PROPOSERS

Proposals must be submitted in the format, including heading descriptions, outlined below. To be considered, the proposal must respond to all requirements in this part of the RFP. Any other information thought to be relevant, but not applicable to the enumerated categories, should be provided as an appendix to the proposal. All cost data relating to this proposal and all Diverse Business data, including any cost data, should be kept separate from and not included in the Technical Submittal. Each proposal shall consist of three separately sealed submittals:

1. Technical Submittal, which shall be a response to RFP **Part II, Sections II-1, A to H**;
2. Diverse Business Participation Submittal, in response to RFP **Part II, Section II-2**; and
3. Cost Submittal, in response to RFP **Part II, Section II-3**.

The Commission reserves the right to request additional information which, in the Commission's opinion, is necessary to assure that the Proposer's competence, number of qualified employees, business organization, and financial resources are adequate to perform according to the RFP.

The Commission may make such investigations as deemed necessary to determine the ability of the Proposer to perform the work, and the Proposer shall furnish to the Issuing Office all such information and data for this purpose as requested by the Commission. The Commission reserves the right to reject any proposal if the evidence submitted by, or investigation of, such Proposer fails to satisfy the Commission that such Proposer is properly qualified to carry out the obligations of the agreement and to complete the work specified.

II-1 Technical Submittal.

A. Proposal Cover Sheet (See Appendix A)

Show the name of your firm, Federal I.D. number, address, name of contact person, contact person's email and telephone number date and the subject: **Infrastructure Cabling Maintenance and Communication Systems Installation, RFP 16-10350-7303. APPENDIX A** must be signed by an individual who is authorized to negotiate terms, render binding decisions and commit your firm's resources. In addition it is required that all information requested in **APPENDIX A** be provided including information pertaining to location of office performing the work, contact information, listing of all Pennsylvania offices and total number of Pennsylvania employees, and location of company headquarters.

B. Table of Contents

Include a clear identification of the material by section and by page number.

C. Executive Summary

Summarize your understanding of the work to be done and make a positive commitment to perform the work necessary. This section should summarize the key points of your submittal. (Limit to two pages.)

D. Firm Overview

Provide a brief history and description of your firm's business organization and its infrastructure cabling maintenance and communication systems installation service expertise and experience as it relates to the requirements discussed in Part IV of this RFP. Include the location of offices and the number and types of planners/engineers, project managers, CAD operators, cable installers, splicers, cable techs, electricians, tower climbers or other relevant professional staff in each office. Discuss your firm's presence in and commitment to the Commonwealth of Pennsylvania. Include a discussion of the specific expertise and services that distinguish your firm.

E. Personnel

Provide the names, proposed roles, background and experience, current professional licenses, office location and availability of the personnel that would perform the infrastructure cabling maintenance and communication systems installation services as described in Section IV of this RFP. Specifically identify the primary person(s) who will be responsible for managing the relationship with the Commission during this endeavor. Proposer must submit a current resume for all proposed staff listing relevant experience and applicable professional affiliations.

F. Relevant Experience and Expertise

Provide a narrative statement regarding your infrastructure cabling maintenance and communication systems installation services expertise and experience as it relates to Part IV of this RFP. Additionally include a statement regarding your understanding of the requirements as outlined in this RFP and your ability to provide infrastructure cabling maintenance and communication systems installation services in accordance with the same.

Describe your firm's experience in providing similar infrastructure cabling maintenance and communication systems installation services to other clients, especially other governmental entities and/or similar public/private sector large transportation organizations. Describe the business practices that enable you to complete these tasks in an efficient, timely and, at times, expeditious manner.

Provide a list of three references of clients for which your firm has performed similar work, as described in this RFP, within the past three years.

Include a statement regarding any other specialized infrastructure cabling maintenance and communication systems installation services your firm may offer.

G. Approach

Provide a description of the proposed approach/methodology that you will follow in providing the infrastructure cabling maintenance and communication systems installation services.

H. Equipment

Provide a summary list of equipment that your company owns which could be utilized during the course of this contract where you could eliminate a third party rental cost for the Commission. Examples would be bucket trucks, snooper truck, lifts, fiber air blowing equipment, fiber testing equipment, etc.

II-2. Diverse Business (DB) Requirements (APPENDIX C). The Commission's Diverse Business (DB) Requirements for this procurement and a resulting contract are identified in APPENDIX C. There is no minimum participation level (MPL) for DBs established for this contract. However, the utilization of DBs are encouraged and will be considered as a criteria in the evaluation of proposals and may be considered as a factor in the Commission's selection of a firm for this contract.

The proposer must include in its DB participation submittal that it meets the requirements set forth in the Commission's DB Requirements - APPENDIX C. In particular, the proposer shall address the section of the DB Requirements labeled, "Actions Required by Proposer during the procurement/consultant selection phase". In addition, the DB participation submittal shall indicate the amount of DB participation incurred in the proposal in terms of dollars committed or percentage of total contract amount.

II-3. Cost Submittal. The information requested in this section shall constitute your cost submittal. **APPENDIX D, Cost Submittal Format form must be completed and serves as The Cost Submittal and shall be placed in a separate sealed envelope within the sealed proposal, and on a flash drive, separate from the technical submittal. Cost submittal sheet is an Excel file. Insert additional rows to accommodate more line items if needed. Do not insert additional columns. Do not alter text or headings. Format layout/design of the sheet must be preserved to facilitate side by side comparisons of proposers' cost sheets. Replace dollar signs with actual dollar figure. Replace percentage signs with actual percent figure.**

Proposers should **not** include any assumptions in their cost submittals. If the proposer includes assumptions in its cost submittal, the Issuing Office may reject the proposal. Proposers should direct in writing to the Issuing Office pursuant to Part I-10, Questions and Answers of this RFP any questions about whether a cost or other component is included or applies. All Proposers will then have the benefit of the Issuing Office's written answer so that all proposals are submitted on the same basis.

Travel and subsistence costs will be defined by and not exceed the current CONUS rates and IRS approved mileage rates at the time of issuance of work orders.

In calculating costs for the, **APPENDIX D-Cost Submittal Format** form, show unit cost per item and/or measurement used. Contractor must use feet for unit cost when pricing out cable. Contractor should use meters for patch cables unless otherwise designated. The contractor should state the cost to install a new communication data cable identified in this RFP as it is fully terminated, tested and functional, meeting the standards set forth in this RFP.

Any costs not provided in the cost proposal will be assumed as no charge to the Commission. The selected Proposer shall only perform work on this contract after the Effective Date is affixed and the fully-executed contract sent to the selected Proposer. The Commission shall issue a written Notice to Proceed to the selected Proposer authorizing the work to begin on a date which is on or after the Effective Date. The selected Proposer shall not start the performance of any work prior to the date set forth in the Notice to Proceed and the Commission shall not be liable to pay the selected Proposer for any service or work performed or expenses incurred before the date set forth in the Notice to Proceed. No Commission employee has the authority to verbally direct the commencement of any work under this Contract.

PART III

CRITERIA FOR SELECTION

III-1. Mandatory Responsiveness Requirements. To be eligible for selection, a proposal shall be (a) timely received from a Proposer; and (b) properly signed by the Proposer.

III-2. Technical Nonconforming Proposals. The two (2) Mandatory Responsiveness Requirements set forth in Section III-1 above (a&b) are the only RFP requirements that the Commission will consider to be non-waivable. The Issuing Office reserves the right, in its sole discretion, to (1) waive any other technical or immaterial nonconformities in the proposal, (2) allow the Proposer to cure the nonconformity, or (3) consider the nonconformity in the evaluation of the proposal.

III-3. Proposal Evaluation. Proposals will be reviewed, evaluated, and rated by a Technical Evaluation Team (TET) of qualified personnel based on the evaluation criteria listed below. The TET will present the evaluations to the Professional Services Procurement Committee (PSPC). The PSPC will review the TET's evaluation and provide the Commission with the firm(s) determined to be highly recommended for this assignment.

The Commission will select the most highly qualified firm for the assignment or the firm whose proposal is determined to be most advantageous to the Commission by considering the TET's evaluation and the PSPC's determination as to each firm's rating. In making the PSPC's determination and the Commission's decision, additional selection factors may be considered taking into account the estimated value, scope, complexity and professional nature of the services to be rendered and any other relevant circumstances. Additional selection factors may include, when applicable, the following: geographic location and proximity of the firm, firm's Pennsylvania presence or utilization of Pennsylvania employees for the assignment; equitable distribution of work; diversity inclusion; and any other relevant factors as determined as appropriate by the Commission.

Award will only be made to a Proposer determined to be responsive and responsible in accordance with Commonwealth Management Directive 215.9, Contractor Responsibility Program.

III-4. Evaluation Criteria. The following criteria will be used, in order of relative importance from the highest to the lowest, in evaluating each proposal:

1. Proposer and Personnel Qualifications and Experience

- a. Proposer's relevant experience and expertise in conducting communications systems infrastructure cabling maintenance and installation as it relates to the requirements discussed in Part IV of this RFP.
- b. Qualifications, experience and competency of professional personnel who will be assigned to the contract by the Proposer including tenure with firm, length of time in the industry and type of experience.
- c. Financial ability of the Proposer to undertake a project of this size.
- d. Response of references if the Commission elects to solicit them.

2. Approach.

Soundness of proposed approach, and methodology, for conducting communications system infrastructure cabling maintenance and installation as it relates to the requirements and tasks as discussed in Part IV of this RFP.

- 3. Equipment.** Provide a summary list of equipment that your company owns which could be utilized during the course of this contract where you could eliminate a third party rental cost for the Commission. Examples would be bucket trucks, snooper truck, lifts, fiber air blowing equipment, fiber testing equipment, etc.

4. Cost.

While this area may be weighted heavily, it will not normally be the deciding factor in the selection process. The Commission reserves the right to select a proposal based upon all the factors listed above, and will not necessarily choose the firm offering the best price. The Commission will select the firm with the proposal that best meets its needs, at the sole discretion of the Commission.

- 5. Commitment to Diversity and Inclusion.** This refers to the inclusion of DB firms, as described in Part II-2. Participation may be measured in terms of total dollars committed or percentage of total contract amount to certified DB firms.

PART IV

WORK STATEMENT

IV-1. Objectives.

a. General. The successful contractor will provide technical advice, problem resolution, installation, maintenance and repair for the Commission's communication infrastructure and auxiliary communication systems across the state of Pennsylvania. The contractor will assume all existing warranties and all new warranties that become active during the term of this contract.

b. Specific. The Commission is seeking a contractor who has the comprehensive skills, resources and certifications and experience working with statewide footprint public/private surface transportation systems to maintain/warrant the voice, data and auxiliary communication systems installation and cabling infrastructure throughout the Pennsylvania Turnpike.

The contractor would provide maintenance services inclusive of adds, moves and changes to the cabling infrastructure as it currently exists and would assume maintenance/warranty responsibility for existing and future cabling that is installed as a result of new construction of Commission facilities and highway construction projects.

The contractor may be asked to provide tower climbing services as part of this contract. The contractor must be able to provide any electrical services that may result from a task in this contract. The contractor would be responsible for installation of GAI-Tronics radio/intercom hardware, network hardware, phone hardware and miscellaneous electronics. The contractor would also be responsible for demolition of all said equipment during the term of this contract.

The Turnpike uses a variety of cabling to provide communication solutions including fiber, copper and coaxial cable infrastructure across the state. The Commission has established Wide Area Network (WAN) services, wireless, radio/intercom and telephone communication throughout the state of Pennsylvania in various structures along the Turnpike.

The Commission has two Administrative Buildings in Middletown and Regional Offices East and West. The Commission's Fares structures are located in 6 Districts and the Maintenance structures are divided into 5 Districts throughout all routes that comprise the Pennsylvania Turnpike.

IV-2. Nature and Scope of the Project. The Commission currently has over 100 buildings/sites with infrastructure cabling across the state of Pennsylvania. The Commission is also including conduit and the installation of roadway fiber in new construction and road re-build projects.

Around 50% of the services that the contractor will provide through this RFP will be generated through the re-modeling of Commission facilities. The number of re-modeling projects is estimated at 15 per year.

The amount of data/voice cabling affected due to a re-modeling project per work order is estimated from around 20 to 100 connections, depending on the size and type of location. This may include conduit and electrical installations depending on the work order. Approximately 20% of services would be generated for modifications, demolition and installations of GAI-Tronics Radio/Intercom cabling, conduit, tele-panels and communication cabinets.

About 30% of services would be comprised of troubleshooting cabling problems, replacing or repairing problematic cabling/parts including roadway fiber, migrations to Miller Buildings, minor changes in requirements at a facility, providing direction and technical solutions and on occasion services for a catastrophic event like a cable bundle being severed.

Migrations to a Miller Building for a facility that is all copper may result in re-cabling of the entire premises. The contractor will provide maintenance services for adds, moves and changes to all infrastructure cabling including premise fiber, outdoor plant fiber, campus fiber, roadway fiber, coaxial cable and all copper cable including data, voice and GAI-Tronics cabling. The contractor will coax-seal wrap all coaxial cable to prevent moisture penetration. The contractor will fire stop and seal all penetrations made into any building structure by the contractor. The contractor must support whatever level of cabling is located at a site to provide consistency and compatibility with all components.

If the option for a complete replacement of cabling is part of the work order, the contractor will install the highest level of that type cable and compatible components available at the time the work order is issued. The contractor will be responsible for terminating all types of fiber, terminating copper for data/voice/radio-intercom/wireless access points and punching down all voice cable.

The contractor will be responsible for installing access points, antennas and coaxial cables for wireless communication. The contractor may have to run coaxial cable feeds for video and terminate to a jack with BNP connectors. The contractor must supply all test equipment for the certification of terminated cabling, perform the tests for any cables they terminate and provide the test results to the Commission.

The contractor must provide all equipment necessary and have the resources in trained personnel to perform any fiber splicing mechanical or fusion as required, provide all test equipment to certify the splice and provide the test results to the Commission. The contractor will provide all analysis equipment and the technical staff to properly identify the cause of a cabling problem and determine the appropriate action for problem resolution.

The contractor must provide a technical staff that is certified and continues the necessary training/preparation as required by the associated suppliers to assume and provide continuation of the Commission's existing Corning Cable Systems LANscape® Solutions Network of Preferred Installers, (NPI), 25-Year System Warranty, NetClear® and NetClear® GT3 25-Year System Warranty, AMP NetConnect Warranty and GAI-Tronics system initialization/certification.

The contractor must provide all standing racks, rack components and wall mount cabinets that are required as part of a work order. The contractor must provide all equipment including bucket trucks, ladders, hardware, etc. and manpower to maintain and install supporting structures throughout the Commission's facilities for cabling including conduits and all wireless network connection masts/tripods.

The contractor may be required to provide any electrical services that may result as part of a work order including but not limited to appropriate grounding, grounding bars, rack/cabinet electrification, electrical outlets, electrical plugs for Miller Buildings, conduit installation, conduit repair/maintenance, and installation of junction boxes, etc.

There is a possibility that the contractor may have to install additional conduit runs across Maintenance Facility garage bays if the existing conduits are full. The contractor will be required to install/re-install all GAI-Tronics components according to the manufacturers requirements and work independently with the GAI-Tronics Corporation Engineers through system initialization and certification.

The contractor must provide storage for any equipment, parts, hardware and supplies that are acquired during the term of the contract until they are deployed to a site for installation. The contractor may be expected to un-install equipment such as racks/cabinets, masts/tripods, antennas, coaxial cables, GAI-Tronics equipment, etc. and store those commodities for the Commission during the term of the contract. The contractor may be asked to remove obsolete cabling from facilities.

The Commission currently has over 14 facilities with high count Corning fiber backbones between buildings, over 20 sites with single mode campus fiber between buildings, multiple sites with single mode long haul roadway fiber, approximately 1,000 BerkTek LANMark CAT5e data drops, around 500 BerkTek LANMark Cat 6 data drops, around 1,500 BerkTek LANMark 2000 data drops, Corning Universal Plug and Play Modules, cables, Corning Pretium® EDGE Solutions modules, trunk cables and housings in the Commission's Data Center, multiple remote sites with single mode fiber runs by others and over 5000 voice connections state-wide.

The Commission has multiple construction projects that will be completed over the term of the contract, some of which will include the installation of fiber along the roadway. The selected contractor would be required to assume the warranty and responsibility for that fiber after the construction contractor's responsibilities have been met.

See "**Pennsylvania Turnpike Commission Approved Parts Specifications List – (APPENDIX E)**", for the possible types of equipment, parts and materials for which the selected contractor would be required to provide services. This list should also be used as an Approved Parts Specifications List for the selected contractor. This list is not meant to be all inclusive/comprehensive of all parts the selected contractor will be required to support during the term of the contract.

The Commission's cabling infrastructure is statewide and as such the contractor must be able to provide services in a reasonable time frame to any location as requested. Refer to section IV-6 for guidelines. The territory spans all highways that comprise the Pennsylvania Turnpike with communication requirements in most building structures along the route. Structures include Interchange Office Buildings, Maintenance Facilities, Maintenance Facilities with State Police Barracks, Fares Building, Fares Building with State Police Barracks, State Police Barracks, Tradesman Buildings, Warehouses, Miller Buildings, Construction Trailers, Tunnels, Training Centers and various other external semi-permanent bunker type facilities. **Review Pennsylvania Turnpike Commission Distribution of Infrastructure Sites and Cabling Plants - APPENDIX F**, for a list of locations, types of cable and types of facilities. This information should help you gain an understanding of the territory that must be covered and the variety of cabling the selected contractor will be required to warrant, maintain and install.

IV-3. Requirements. The contractor must meet the requirements itemized in **APPENDIX G - Requirements**, including but not limited to: Proposer Must have a minimum of 5 consecutive years of experience working with public/private statewide footprint highway transportation system; Must have a minimum of 5 consecutive years of experience installing annually a minimum of 10 miles of aerial and or buried fiber optic backbone cabling alongside interstate highway rights of way and infrastructure; and, The Contractor must have previous comprehensive, (full system installation), experience for GAI-Tronics' communications equipment as stipulated in accordance with the GAI-Tronics Corporation Installation, Operation, and Maintenance Manual. Proof of successful system initialization/certification by GAI-Tronics personnel is required. Proposer will need to have the following resources available for the term of the contract with certifications/credentials and experience levels as stated below. **Indicate Yes or No on the APPENDIX G document to signify meeting or not meeting the requirement; initial and date in lower right corner of the document and include a copy in the**

Technical Submittal. Proof verifying the certifications/credentials, experience and resources must be provided at the time the proposal is submitted. All cabling and materials included in this specification shall be installed and maintained in accordance with prevailing codes, ordinances and regulations and meet or exceed guidelines sponsored or endorsed by the National Fire Protection Agency (NFPA) and the national electric code (NEC). Specifically, structured cabling system shall be in strict accordance with and reflect the latest standards in effect or that take effect during the term of the contract, as presented in **APPENDIX G – REQUIREMENTS** and **APPENDIX H – INDUSTRY STANDARDS AND CODES** that are required to meet warranty requirements as specified in this RFP.

IV-4. Tasks. Tasks associated with this RFP should include but are not limited to the following itemized tasks as described in **APPENDIX I – TYPICAL- REQUIRED TASKS**.

IV-5. Reports and Project Control. Work Order Scheduling/Completion. The contractor's Project Manager must notify the Commission's Project Manager of the anticipated schedule for the initiation of a work order, the number and names of all personnel that will be dispatched and their estimated time of arrival on site. This notification must be sent via email to the Commission's Project Manager. The contractor's Project Manager must notify the Commission's Project Manager when a work order has been completed via email.

b. Progress Reporting. A periodic weekly progress report covering activities, problems, and recommendations for any work orders/projects that span multiple weeks; the report should be keyed to the work plan developed by the Proposer in its proposal, as amended or approved by the Commission. A quarterly progress/status meeting will be held with the project manager and the Manager of Communications Systems. This can be done at the commission office or as a conference call.

c. As Built Drawings. The contractor will assume responsibility for updating or creating as-built documentation in AutoCAD and Visio format, on a request basis and as part of the deliverable on work orders for adds, moves, changes and installations **before the tasks are considered completed for invoicing**. The as-built documentation must be received **prior to or with invoicing before the job will be processed for payment**.

d. Test Results. All test results for cabling must be delivered via email using text format in individual PDF files and fluke test format files or through both email and flash drive if requested by the Commission's Project Manager. The location and type of cable must be clearly designated on the flash drive and the contractor must use the labeling cable standard name as the file name for each individual cable. Results must be received by the Commission's Project Manager **prior to or with invoicing before the job can be processed for payment**.

e. Warranty Documentation. All warranty documentation submittals to the appropriate vendor are the responsibility of the contractor and should produce an issued warranty certificate to be received by the Commission's Project Manager at the Turnpike's Administration Building, no later than 2 weeks post installation. The contractor's Project Manager should provide the Commission with proof that the documentation was submitted for warranty to prevent invoice payment delays in case the warrantor does not provide the certificates within the 2 week period.

f. Invoices. The contractor's Project Manager should provide an invoice for services in a timely manner. The information on the invoice must include but should not be limited to the location where the work was performed, a general description of the work and the charges broken out between labor, project management, materials and travel expenses. The accompanying documentation should

include a complete material list showing meaningful descriptions, quantity ordered and line extensions for total cost per part. The contractor should provide a list of the personnel that provided the services, their hours by date, and any travel/per diem costs by date for each.

g. Task Plan. A work plan for each task that identifies the work elements of each task, the resources assigned to the task, and the time allotted to each element and the deliverable items to be produced. Task Plans must be approved by the Communications Systems Project Manager.

h. Problem Identification Report. An “as required” report, identifying problem areas. The report should describe the problem and its impact on the overall project and on each affected task. It should list possible courses of action with advantages and disadvantages of each, and include Proposer recommendations with supporting rationale.

APPENDIX A – PROPOSAL COVER SHEET
Pennsylvania Turnpike Commission
Infrastructure Cabling Maintenance and Communication Systems
Installation RFP# 16-10350-7303

Enclosed in three separately sealed submittals is the proposal for the Proposer identified below for the above referenced RFP:

Proposer Information:	
Proposer Name	
Proposer Mailing Address	
Proposer Website	
Proposer Contact Person/Title	
Contact Person's Phone Number	
Contact Person's Fax Number	
Contact Person's Email Address	
Proposer Federal ID Number	
Location of Headquarters	
Location of Office(s) Performing the Work	
Listing of all Pennsylvania Offices and Total Number of Pennsylvania Employees	

Submittals Enclosed and Separately Sealed:

<input type="checkbox"/> Technical Submittal <input type="checkbox"/> Diverse Business Participation Submittal <input type="checkbox"/> Cost Submittal
Signature
Signature of an official authorized to bind the Proposer to the provisions contained in the Proposer's proposal: _____
Print Name
Title

FAILURE TO COMPLETE, SIGN AND RETURN THIS FORM WITH THE PROPOSAL MAY RESULT IN THE REJECTION OF THE PROPOSAL.

APPENDIX B

The Pennsylvania Turnpike Commission

INSURANCE SPECIFICATION "D" MINIMUM INSURANCE REQUIREMENTS

Prior to the commencement of any work and until completion and final payment is made for the work / final acceptance of the work, the Contractor will provide and maintain the following minimum levels of insurance at Contractor's own expense. The cost of the required insurance shall be included in the Contractor's cost proposal and no adjustment shall be made to the contract price on account of such costs. The term Contractor shall include Subcontractors and Sub-Subcontractors of every tier. Contractor shall furnish Certificates of Insurance evidencing and reflecting the effective date of coverage as outlined below. In no event shall Work be performed until the required evidence of Insurance is provided in accordance with the terms of the contract. If found to be non-compliant, the Pennsylvania Turnpike Commission (the "Commission") may purchase the required insurance coverage(s) and the cost will be borne by the Contractor through direct payment/reimbursement to the Commission or the Commission may withhold payment to the Contractor for amounts owed to them.

- a) All insurance shall be procured from insurers permitted to do business in the State in which the project is taking place and having an A.M. Best Rating of at least "A-, Class VIII".
- b) Contractor shall not have a Self Insured Retention (SIR) on any policy greater than \$25,000, which is the responsibility of the Contractor. If Contractor's policy(ies) has a Self Insured Retention exceeding this amount, approval must be received from the Commission prior to starting work. In the event any policy includes an SIR, the Contractor is responsible for payment within the SIR of their policy(ies) and the Additional Insured requirements specified herein shall be offered within the SIR amount(s).
- c) All insurance required herein, with the exception of the Professional Liability Insurance, shall be written on an "occurrence" basis. Claims-Made coverage must include:
 - i. The retroactive date must be on or prior to the start of work under this contract; and
 - ii. The Contractor must purchase "tail coverage/an extended reporting period" or maintain coverage for a period of three years, subsequent to the completion of their work / final payment.
- d) The Contractor's insurance carrier (s) shall agree to provide at least thirty (30) days prior written notice to the Commission in the event coverage is canceled or non-renewed. In the event of cancellation or non-renewal of coverage(s), it is the Contractor's responsibility to replace coverage to comply with the Contract requirements so there is no lapse of coverage for any time period.

In the event the insurance carriers will not issue or endorse their policy(s) to comply with the above it is the responsibility of the Contractor to report any notice of cancellation or non-renewal at least thirty (30) days prior to the effective date of this notice.

APPENDIX B

The Pennsylvania Turnpike Commission

INSURANCE SPECIFICATION "D" MINIMUM INSURANCE REQUIREMENTS

- e) Contractor shall provide the Commission with Certificates of Insurance, evidencing the insurance coverages listed below, ten days prior to the start of work of this Project and thereafter upon renewal or replacement of each coverage. The Contractor shall not begin any work until the Commission has reviewed and approved the Certificate of Insurance. The required insurance shall not contain any exclusions or endorsements, which are not acceptable to the Commission.

Failure of the Commission to demand such certificate or other evidence of full compliance with these insurance requirements or failure of the Commission to identify a deficiency from evidence that is provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

With respect to insurance maintained after final payment in compliance with a requirement below, an additional certificate(s) evidencing such coverage shall be provided to the Commission with final application for payment and thereafter upon renewal or replacement of such insurance until the expiration of the time period for which such insurance must be maintained.

- f) The Commission, (including the Commission's Parent, Subsidiaries, and Affiliates) shall be added as ADDITIONAL INSUREDS on all liability policies (except Workers' Compensation and Professional Liability Policy, where applicable), for ongoing operations and completed operations on a primary noncontributory basis. Coverage to include ongoing and completed operations using ISO Endorsements CG 2010 and CG 2037, or their equivalents. Each of the Additional Insured's respective members, employees, agents and representatives shall also be afforded coverage as an Additional Insured. Coverage should be provided for a period of three years subsequent to the completion of work/final payment.

If you are operating in a state that has implemented the "Anti-Indemnity" Additional Insured Endorsements, you are required to provide the state specific additional insured endorsements for ongoing and completed operations. These states include but are not limited to: Montana, New Mexico, Oregon, Colorado, Kansas, California, Louisiana, and Texas.

The Commission reserves the right to require Contractor to name other parties as additional insureds as required by the Commission.

There shall be no "Insured versus Insured Exclusion" on any policies; all policies will provide for "cross liability coverage".

APPENDIX B

The Pennsylvania Turnpike Commission

INSURANCE SPECIFICATION "D" MINIMUM INSURANCE REQUIREMENTS

- g) Waiver of Rights of Subrogation: Contractor shall waive all rights of recovery against the Commission and all the additional insureds for loss or damage covered by any of the insurance maintained by the Contractor.
- h) The amount of insurance provided in the aforementioned insurance coverages, shall not be construed to be a limitation of the liability on the part of the Contractor.
- i) The carrying of insurance described shall in no way be interpreted as relieving the Contractor of any responsibility or liability under the contract.
- j) Any type of insurance or any increase in limits of liability not described above which the Contractor requires for its own protection or on account of statute shall be its own responsibility and at its own expense.
- k) Contractor shall promptly notify the Commission and the appropriate insurance company(ies) in writing of any accident(s) as well as any claim, suit or process received by the insured Contractor arising in the course of operations under the contract. The Contractor shall forward such documents received to his insurance company(ies), as soon as practicable, or as required by its insurance policy(ies).

REQUIRED COVERAGES - the following may be provided through a combination of primary and excess policies in order to meet the minimum limits set forth below:

1. **Workers' Compensation and Employer's Liability:**

Provided in the State in which the work is to be performed and elsewhere as may be required and shall include:

- a) Workers' Compensation Coverage: Statutory Requirements
- b) Employers Liability Limits not less than:

Bodily Injury by Accident:	\$500,000 Each Accident
Bodily Injury by Disease:	\$500,000 Each Employee
Bodily Injury by Disease:	\$500,000 Policy Limit
- c) USL&H, and FELA Coverage, if applicable.
- d) Includes sole proprietorships and officers of corporation who will be performing the work.
- e) Where applicable, if the Contractor is lending or leasing its employees to the Commission for the work under this contract (e.g. crane rental with operator), it is the Contractor's responsibility to provide the Workers Compensation and Employer's Liability coverage and to have their policy endorsed with the proper Alternate Employer Endorsement.

APPENDIX B

The Pennsylvania Turnpike Commission

INSURANCE SPECIFICATION "D" MINIMUM INSURANCE REQUIREMENTS

2. **Commercial General Liability:**

Provided on ISO form CG 00 01 12 07 or an equivalent form including Premises - Operations, Independent Contractors, Products/Completed Operations, Broad Form Property Damage, Contractual Liability, and Personal Injury and Advertising Injury.

- a) Occurrence Form with the following limits:
 - (1) General Aggregate: \$2,000,000
 - (2) Products/Completed Operations Aggregate: \$2,000,000
 - (3) Each Occurrence: \$1,000,000
 - (4) Personal and Advertising Injury: \$1,000,000
- b) Products/Completed Operations Coverage must be maintained for a period of at least three (3) years after final payment / completion of work (including coverage for the Additional Insureds as set forth in these Insurance Requirements).
- c) The General Aggregate Limit must apply on a **Per Project basis**.
- d) No Exclusions for development, construction, building conversion, etc with respect to the project's location and / or where the work is to be completed by the Contractor.
- e) Coverage for "Resulting Damage".
- f) No sexual abuse or molestation exclusion.
- g) No amendment to the definition of an "Insured Contract" except as noted below.
- h) The definition of an "Insured Contract" must be amended to provide coverage for all work on or within 50 feet of a railroad. A stand alone Railroad Protective Liability policy may be required based on the scope of this project.

3. **Automobile Liability:**

- a) Coverage to include All Owned, Hired and Non-Owned Vehicles (or "Any Auto"), if you do not have any Owned Vehicles you are still required to maintain coverage for Hired and Non-Owned Vehicles as either a stand alone policy or endorsed onto the Commercial General Liability policy above
- b) Per Accident Combined Single Limit \$1,000,000
- c) For Contractor(s) involved in the transportation of hazardous material, include the following endorsements: MCS-90 and ISO-9948.

4. **Commercial Umbrella Liability:**

- a) Policy(ies) to apply on a Following Form Basis of the following:
 - (1) Commercial General Liability,
 - (2) Automobile Liability, and
 - (3) Employers Liability Coverage.

APPENDIX B

The Pennsylvania Turnpike Commission INSURANCE SPECIFICATION "D" MINIMUM INSURANCE REQUIREMENTS

- b) Minimum Limits of Liability
Occurrence Limit: \$ 5,000,000
Aggregate Limit (where applicable): \$ 5,000,000
- 5. **Rigger's Liability Insurance:**
 - a) "All Risk" Replacement Cost Coverage
 - b) No overload exclusion
 - c) Minimum Occurrence Limit: \$1,000,000
- 6. **Crime Insurance:**
 - a) Include the Employee Theft and Theft, Disappearance and Destruction coverage parts.
 - b) The Employee Theft Coverage part shall include the Clients' Property Endorsement (ISO Form CR 04 01, or its equivalent).
 - c) Minimum Limits of Liability:
Per Occurrence: \$1,000,000
- 7. **Owned, Leased, Rented or Borrowed Equipment:**
 - a) Contractor shall maintain Property Coverage for their owned, leased, rented or borrowed equipment, tools, trailers, etc. for the full replacement cost of the equipment.
 - b) Coverage to be provided on an Agreed Amount Basis with no Coinsurance
 - c) Coverage to be provided on an All Risk basis.
- 8. **Property Coverage:**
 - a) Contractor shall provide coverage for damage to their work, materials to be part of the project (on-site and off-site), and in transit.
- 9. **Installation Floater:**
 - a) Contractor shall provide coverage for damage to property in the course of installation or transit to the installation site.

APPENDIX B

The Pennsylvania Turnpike Commission

INSURANCE SPECIFICATION "D" MINIMUM INSURANCE REQUIREMENTS

- b) Coverage shall be equal to the full replacement cost of the equipment or materials being installed. Coverage shall also be provided for any ensuing loss of Business or Rental Income.
- c) Contractor must determine if the Installation Floater policy, if in place for this project, is adequate to protect the interests of Commission.

APPENDIX C

Pennsylvania Turnpike Commission DIVERSE BUSINESS (DB) REQUIREMENTS

Diverse Business Participation. The Commission is committed to Diverse Business (DB) participation on competitive contracting opportunities. Firms or entities that have not previously performed work or provided services to the Commission are encouraged to respond to the solicitations. RFPs may include DB participation as part of the criteria for the evaluation of proposals, and the Commission may consider DB participation as a selection factor.

Minimum Participation Level (MPL). The minimum participation level (MPL) for the inclusion of DBs will be established in the RFP/advertisement as a percentage.

(a) General Requirements. Section 303 of Title 74 of the Pennsylvania Consolidated Statutes, 74 Pa.C.S. § 303, requires proposer on contracts funded pursuant to the provisions of Title 74 (Transportation) and 75 (Vehicle Code) administered and issued by the Commission to make Good Faith Efforts to solicit subconsultants that are Diverse Businesses (DBs) as defined in Section 303. The DB requirements of Section 303 apply to this contract.

Section 303 requires proposers to make Good Faith Efforts, as described below, to solicit subconsultants that are DBs during the proposal process to maximize participation of DBs in competitive contracting opportunities.

The Commission is committed to participation by DBs and will enforce the requirements of Section 303 and this section. Failure to make Good Faith Efforts and demonstrate such Good Faith Efforts in the solicitation of subconsultants may result in the proposer being declared ineligible for the contract.

Proposers shall document and submit to the Commission all Good Faith Efforts, as described in this section, to solicit subconsultants that are DBs during the solicitation process.

Proposers are encouraged to utilize and give consideration to consultants offering to utilize DBs in the selection and award of contracts.

Proposers shall not discriminate on the basis of gender, race, creed or color in the award and performance of contracts in accordance with 62 Pa.C.S. §3701.

Failure to comply with the requirements of Section 303 or this specification may result in the imposition of sanctions as appropriate under section 531 of the Procurement Code, 62 Pa.C.S. § 531 relating to debarment and suspension.

The Commission's Director of the Office of Diversity and Inclusion, or designee, is designated the Responsible Official who shall supervise the DB program and ensure that the Commission complies with the DB program.

(b) Definitions. The following definitions apply to terms used in this specification:

1. Disadvantaged Business – A business that is owned or controlled by a majority of persons, not limited to members of minority groups, who are subject to racial, social, ethnic prejudice or cultural bias.

2. Diverse Business – A disadvantaged business, minority-owned or women-owned business or service-disabled veteran-owned or veteran-owned small business that has been certified by a third-party certifying organization.

3. Minority-owned Business – A business owned and controlled by a majority of individuals who are African Americans, Hispanic Americans, Native Americans, Asian Americans, Alaskans or Pacific Islanders.

4. Professional Services – An industry of infrequent, technical or unique functions performed by independent contractors or consultants whose occupation is the rendering of the services, including: (1) design professional services as defined in 62 Pa.C.S. § 901 (relating to definitions); (2) legal services; (3) advertising or public relations services; (4) accounting, auditing or actuarial services; (5) security consultant services; (6) computer and information technology services; and (7) insurance underwriting services.

5. Pro Forma Effort-The act of completing a form or document identifying efforts to solicit DBs for a project in order to satisfy criteria with little or no expectation that the DBs contacted or identified will perform any of the work.

6. Service-Disabled Veteran-Owned Small Business – A business in the United States which is independently owned and controlled by a service-disabled veteran(s), not dominant in its field of operation, and employs 100 or fewer employees.

7. Subconsultant- Any individual, partnership, firm, or corporation entering into a contract with the prime consultant for work under the contract, including those providing professional and other services.

8. Third-party Certifying Organization – An organization that certifies a small business, minority-owned business, women-owned business or veteran-owned small business as a diverse business. The term includes: (1) the National Minority Supplier Development Council; (2) the Women’s Business Development Enterprise National Council; (3) the Small Business Administration; (4) The Department of Veteran Affairs; (5) the Pennsylvania Unified Certification Program.

9. Veteran-owned Small Business –A small business owned and controlled by a veteran or veterans.

10. Women-Owned Business – A business owned and controlled by a majority of individuals who are women.

(c) Actions Required by Proposer during the procurement/consultant selection phase

1. Submission Requirements – Consultant Responsiveness.

- a. **Minimum Participation Level (MPL) Documentation** - If the documentation submitted with the proposal demonstrates that the proposer has identified DBs sufficient to meet the MPL established for this contract, the proposer will be deemed to have satisfied the DB requirement during this phase. The proposer is required to provide the business name and business address of each DB and supporting documentation that includes proof of certification.

If the consultant’s proposal demonstrates the consultant’s inability to meet the MPL established for this contract, the proposer shall demonstrate Good Faith Efforts with its proposal. Failure to submit the required documentation demonstrating Good Faith Efforts as further described below with the proposal may result in a rejection of the proposal.

- b. If no MPL has been established for this contract, the proposer is required to either provide a statement of intent that it will self-perform 100% of the work for the agreement, or demonstrate Good Faith Efforts to solicit subconsultants that are DBs. In either case documentation shall be provided with the proposal.

Failure to submit the required information identified above with the proposal may result in a rejection of the proposal.

2. Good Faith Effort Requirements: The documentation of Good Faith Efforts must include the business name and business address of each DB considered. Supporting documentation must also include proof of certification and any explanation of Good Faith Efforts the proposer would like the Commission to consider. Any services to be performed by a DB are required to be readily identifiable to the agreement. Good Faith efforts are demonstrated by seeking out DB participation in the project given all relevant circumstances. The Commission requires the proposer to demonstrate more than Pro Forma Efforts. Evidence of Good Faith Efforts includes, but is not limited to:

- a. Consultant solicits through all reasonable and available means the interest of all certified DBs with the capacity to perform the scope of work set forth in the agreement.
- b. The proposer must provide written notification at least 5 business days before proposals are due to allow the DBs to respond to the solicitation.
- c. The proposer must determine with certainty if DBs are interested by taking appropriate steps to follow up initial solicitations.
- d. The proposer must make efforts to select portions of the work to be performed by DBs to include, where appropriate, breaking out contract work into economically feasible units to facilitate DB participation;
- e. It is the proposer's responsibility to make a portion of the work available to DBs and, to select those portions of the work, so as to facilitate DB participation.
- f. The proposer shall provide evidence of such negotiations that include the names, addresses, and telephone numbers of DBs considered; A description of the information provided regarding the required work and services for the work selected for subconsultants; and evidence as to why additional agreements could not be reached for DBs to perform the work.
- g. Proposers cannot reject or withhold solicitation of DBs as being unqualified without sound reasons based on a thorough investigation of their capabilities.
- h. The DB's standing within its industry, membership in specific groups, organizations or associations and political or social affiliations (for example union v. non-union employee status) are not legitimate causes for the rejection or non-solicitation of proposals in the proposer's efforts to meet the Good Faith Efforts requirement.
- i. Efforts to assist interested DBs in obtaining bonding, lines of credit or insurance.

3. Actions Taken by the Commission. As part of the proposal review process, the Commission will review the submissions to determine whether the proposer has complied with Section 303 and this requirement in the selection of DB subconsultants. The Commission will determine whether the proposer has either met the MPL or provided acceptable documentation as noted above. The Commission reserves the right to contact proposers for clarification during the review and negotiation process.

If the Commission determines that the proposer has failed to either meet the MPL or provide acceptable documentation as noted above, the proposal may be rejected.

(d) Consultant Requirements During Performance of Services.

1. Replacement of a DB Subconsultant. Consultant must continue good faith efforts through completion of the contract. The obligation to make Good Faith Efforts to solicit subconsultants for any type of service extends to additional work required for any service which is identified to be performed by a DB. If at any time during the performance of the work, it becomes necessary to replace or add a subconsultant that is a DB, the consultant, as appropriate, shall immediately notify the Commission and seek approval in writing in accordance with the Agreement of the need to replace the DB, which notice shall include the reasons for the replacement. If a prime consultant who originally indicated that it would self-perform all work subsequently decides to use a subconsultant for any work under the contract, the consultant must submit documentation of all Good Faith Efforts as to the work for which a subconsultant is obtained.

2. Records. Maintain project records as are necessary to evaluate DB compliance and as necessary to perform the reporting function addressed below. Maintain all records for a period of 3 years following acceptance of final payment. Make these records available for inspection by the Commission, its designees or agents. These records should indicate:

2.a. The number of DB and non-DB subconsultants and the type of services performed on or incorporated in this project.

2.b. The progress and efforts made in seeking out DB subconsultant organizations and individual DB consultants for work on this project to increase the amount of DB participation and/or to maintain the commitments made at the time of the proposal to DBs.

2.c. Documentation of all correspondence, contacts, telephone calls, and other contacts made to obtain the service of DBs on this project.

3. Reports. Maintain monthly reports and submit reports as required by the Commission concerning those contracts and other business executed with DBs with respect to the records referred to in subsection (e)2. above in such form and manner as prescribed by the Commission. At a minimum, the Reports shall contain the following:

3.a The number of Contracts with DBs noting the type of services provided, including the execution date of each contract.

3.b The amounts paid to each DB during the month, the dates of payment, and the overall amounts paid to date. If no payments are made to a DB during the month, enter a zero (\$0) payment.

3.c Upon request and upon completion of individual DB firm's work, submit paid invoices or a certification attesting to the actual amount paid. In the event the actual amount paid is less than the award amount, a complete explanation of difference is required.

4. Subconsultant Contracts

4.a. Subcontracts with DB firms will not contain provisions waiving legal rights or remedies provided by laws or regulations of the Federal Government or the Commonwealth of Pennsylvania or the Commission through contract provisions or regulations.

4.b. Prime consultant will not impose provisions on DB subconsultants that are more onerous or restrictive than the terms of the prime's contract with non-DBs.

4.c. Executed copies of subcontracts/purchase orders are to be received by the Commission before the commencement of work by the DB.

5. Payments to DB Subconsultants. Payments to DBs are to be made in accordance with the prompt payment requirements of Chapter 39, Subchapter D of the Procurement Code, 62 Pa.C.S. §3931 et seq. Performance of services by a DB subconsultant in accordance with the terms of the contract entitles the subconsultant to payment.

(e) Actions to be Taken by Commission After Performance of Services. Following completion of the Consultant's services, the Director of the Commission's Office of Diversity and Inclusion or his/her designee will review the overall DB participation to assess the Consultant's compliance with Section 303 and this contract. Appropriate sanctions may be imposed under 62 Pa.C.S. § 531 (relating to debarment or suspension) for a Consultant's failure to comply with Section 303 and the requirements of the contract.

**Appendix D
Cost Submittal Format
RFP #16-10350-7303**

Name of Supplier Proposing:					
Cost Submittal Format					Comments
1	Direct Labor Costs Per HR				
	(Itemize to show the following for each category of personnel with a different rate per hour: Category: e.g., planner/engineer, project manager, CAD operator, cable installers, splicers, cable techs, electricians, tower climber, etc.)				
	Planner/engineer	\$			
	Project manager	\$			
	CAD operator	\$			
	Cable techs/installers	\$			
	Splicers	\$			
	Electricians	\$			
	Tower Climbers	\$			
	RCDD	\$			
	Groundsman	\$			
2	Labor Overhead Percentage	%			
3	Other Direct Costs:				
	Bucket Truck per day	\$			
	25 ft. Scissor lift per week	\$			
4	Storage of Commission Parts and Hardware:	\$			
	(The contractor should state the rate, if any, that they will charge to store parts and hardware associated with this contract for the Commission.)				
5	Total Cost Per Data Type Cable:	100 ft.	150 ft.	200 ft.	
	(Show unit cost per item and/or measurement used. Contractor must use feet for unit cost when pricing out cable. Contractor should use meters for patch cables unless otherwise designated.)				
	Plenum copper data cable using LANmark-2000 Enhanced Category 6 – 10163780 to NetClear GT3 standards	\$	\$	\$	
	Riser copper data cable using LANmark-2000 Enhanced Category 6 – 10167477 to NetClear GT3 standards	\$	\$	\$	
	Plenum GAI-Tronics copper cable using Belden 6347FE	\$	\$	\$	
	Riser GAI-Tronics copper cable using Alpha Wire 2249C	\$	\$	\$	
	Plenum fiber station cable using Corning 004K88-31130-29 with LC to LC connectors to NPI standards	\$	\$	\$	
	Riser fiber station cable using Corning 004K81-31130-24 with LC to LC connectors to NPI standards	\$	\$	\$	
	200 ft. of cable LMR-600 coaxial cable antenna connection fully terminated, tested and functional.			\$	
	100 ft. of cable LMR-400 coaxial cable antenna connection fully terminated, tested and functional.	\$			
		1000 ft.			
	The contractor should provide the cost for 1,000 ft. of fiber cable as it is fully terminated, tested and functional meeting the standards set forth in this RFP.				
	Install 1000 ft. fiber campus cable using Corning 12 strand single mode 012EW4-T4101D20 fusion spliced in M67-110, terminated using 12 strand single mode pigtail connectors 000412R8131003M to NPI standards	\$			
	Installing 1000 ft. fiber Campus cable using Corning 24 strand single mode 024EW4-T4101D20 with 95-201-98SP SM LC connectors and CCH-CP24-A9	\$			
		1 mile			
	Install, fusion splice and terminate 1 mile fiber roadway cable using Corning 96 strnd. SM 096EW4-T4101D20, M67-048 splice tray, 12 strand single mode pigtail connectors 000412R8131003M to NPI standards	\$			
6	Re-Termination Services (cost to re-terminate following cable types for each end)				
	CAT 5e	\$			
	CAT 6	\$			
	CAT 6e	\$			
	Fiber station cable LC to LC	\$			
	Fiber Backbone cable LC to LC	\$			
	Voice 25 pair cable to a 66 type-Block (punch down)	\$			
	Voice/Data CAT 6 cable to a 110 type-Block (punch down)	\$			
7	Fusion Splice, Test, Certify	\$			
8	Floor Rack 7' x 19" open: Install cost only. Rack cost not included.	\$			
9	Electrical services: (Provide the cost for installing twist lock receptacle 20A, 125V, 2 pole, 3wire)	\$			
10	Conduit installation – contractor should provide the cost per foot to install conduit for both indoor and outdoor installation for the following				
	1 inch indoor galvanized rigid conduit	\$			
	1 inch indoor EMT conduit	\$			
	2 inch indoor galvanized rigid conduit	\$			
	2 inch indoor EMT conduit	\$			
	4 inch outdoor PVC conduit for building to building pathways	\$			
	Buried conduit and cable detection services with toner/ground penetrating radar equipment	\$			
11	Conduit Install Per Foot				
	1" EMT	\$			
	2" EMT	\$			
	4" PVC	\$			
12	Mark Up. (State the percentage of markup that you add to the cost of materials.)	%			
		Copper	Fiber		
13	Waste: (Specify what percentage is added to an overall cable material order to incorporate projected waste when calculating amounts of cable to order for a work order/project. Contractor should show separate detail for copper and separate detail for fiber.	%	%		
14	Departure Location(s): (itemize below city/town name and zip code only of departure locations for all dispatched service truck rolls.)				

APPENDIX E – PENNSYLVANIA TURNPIKE COMMISSION APPROVED PART SPECIFICATION LIST



Pennsylvania Turnpike Commission Approved Part Specification List					
Item #	Fiber products	Product Use	Description	Part Number	
1	Premis Fiber Cabling	plug and play in data center	Corning Classic MM plug and play module	HDH-CM24-05-69S	
2		plug and play in data center	Corning Universal MM plug and play module	CCH-UM24-05-70S	
3		plug and play in data center	Corning Universal SM plug and play module	CCH-UM24-04-89R	
4		48 fiber trunk cable in data center	Corning MTP MM LC to LC ribbon plenum fiber	A696948SC8AAUXXXF	
5		72 fiber trunk cable in data center	Corning MTP MM LC to LC ribbon plenum fiber	A696972SC8AAUXXXF	
6		24 fiber trunk cable in data center	Corning SM LC to LC ribbon plenum fiber	A696924RD8AAUXXXF	
7		4 fiber cable from closet to desktop	Corning 4 strnd 50.00 um MM fiber plenum MIC	horizontal desktop fiber cabling	004C88-31131-29
8		4 fiber cable from closet to desktop	Corning 4 strnd 62.5 um MM fiber plenum MIC	horizontal desktop fiber cabling	004K88-31130-29
9		desktop surface mount outlet for fiber and copper connectors	Corning workstation multimedia outlet		WMO-85
10		desktop single gang wall plate outlet for fiber and copper connectors	Corning workstation desk-link wall outlet DLS		OR-40300575
11		LC connector coupler for WMO	Corning 2 port LC panel for WMO 50.00um		WMO-CP02-A8-85
12		LC connector coupler for WMO	Corning 2 port LC panel for WMO 62.5um		WMO-CP02-D3-85
13		closet connector coupler hardware for backbone and horizontal cabling terminations	Corning closet connector housing handles up to 288 fibers w/MTRJ or LC coupler panels 19" rack mnt.		CCH-04U
14		connector housing	Corning connector housing 19" rack mnt. To interconnect cross connect		CCH-02U
15		connector housing	Corning 1U connector housing for universal and classic modules		CCH-01U
16		connector housing	Corning 1U connector housing for universal and classic modules		PCH-M3-01U
17		connector housing	Corning 2U high density connector housing		HDH-02U
18		connector housing	Corning 1U high density connector housing		HDH-01U
19		kit for strain relief	one bracket and two universal cable clamps for cable strain relief		CPP-UCC-KIT
20		LC coupler panel for CCH Housing	Corning 24 fiber LC coupler panel 50.00um		CCH-CP24-D3
21		LC coupler panel for CCH Housing	Corning 24 fiber LC coupler panel 62.5um		CCH-CP24-A8
22		LC coupler panel for CCH Housing	Corning 24 fiber LC coupler panel SM		CCH-CP24-A9
23		LC pre-polished connector	Corning MM LC connectors 50.00um		95-050-98
24		LC pre-polished connector	Corning MM LC connectors 62.5um		95-000-98

APPENDIX F
DISTRIBUTION OF INFRASTRUCTURE CABLING PLANTS

All Building Structure Types - have copper cabling for voice communication – typically 25, 50, 100 or 200 pair cable bundles – CAT 5e or better, except some un-manned facilities. VoIP sites are primarily CAT 6e. Buildings that do not have fiber to the desk are CAT 5e or better for data.

Miller Buildings with RF – coaxial antenna cable runs from the exterior of the building where the antenna is mounted, through the access stub, to beside the grounding bar in the Miller Building, cable is grounded to the grounding bar.

Miller Building at a Maintenance Facility – 11’8” W x 28’L x 9’ H, concrete structure, houses communication equipment, environmentally controlled, usually multiple 4 inch conduit feeds from connected external buildings for cable runs, usually high count fiber from Miller Building to Maintenance Facility – average length is 750 feet, termination panel is installed into 7 foot standing rack.

Miller Buildings Directly Connected to Another Miller Building – in several instances a Communication Miller Building is hard cabled to a Technician Miller Building –typically CAT 5e copper cable that is terminated in a panel in the Communication Miller Building 7 foot rack, runs through a conduit and is directly terminated into the data jacks in the Technician Miller Building.

Miller Building at an Interchange – 11’8” W x 28’L x 9’ H, concrete structure, houses communication equipment, environmentally controlled, usually multiple 4 inch conduit feeds from external buildings for cable runs, has copper station cable running from the Interchange Office Building termination panel through conduit to the Miller Building termination panel that is installed in a standing rack.

Miller Building at an Un-manned Interchange with Administrative Network Requirements – 11’8” W x 28’L x 9’ H, concrete structure, houses communication equipment, environmentally controlled, usually multiple 4 inch conduit feeds for cable runs – may share space with electrical cables, typically has 12 strand single mode fiber runs between Plaza Miller Buildings terminated into fiber panels, has long haul road fiber terminated into splice trays, installed in 7 foot standing racks.

Technician Miller Building, Blue Miller Building at a Maintenance Facility or District Fares Building – variable size, bunker style semi-permanent or normal Miller Building, for technical staff on mainline, either direct conduit stub feed from inside a Fares Building with copper cable from cabinet termination panel to individual data jacks, or in most instances a RF connection with coaxial cable brought into the cabinet/rack, from the antenna mounted on the exterior of the building and interior copper cable from the cabinet termination panel to the individual data jacks.

Communication Building on a Campus – various sizes, multiple structure materials, houses communication equipment, environmentally controlled, usually multiple 4 inch conduit feeds from connected external buildings for cable runs, usually 12 strand single mode fiber and a copper phone cable bundle from the Communication Building to each Campus Building –average length is 600 feet, may have long haul road fiber to some of the buildings in the campus, termination panels and splice trays are installed into 7 foot standing racks.

Maintenance Facility with or without State Police Barrack with Miller Building – vary in size and complexity, large garage bay, approximately 25 feet in height, with the exception of Greensburg Maintenance which has a bay height of approximately 40 feet, offices/network requirements on either side of the bay, (there are exceptions to this), could have 2 floors that may require maintenance, fiber

APPENDIX F
DISTRIBUTION OF INFRASTRUCTURE CABLING PLANTS

cable to the desk, average station fiber run length is approximately 200 feet, high count fiber between the Miller and Maintenance Building through conduit, station and high count fiber terminated in the Maintenance Facility rack/cabinet, in separate termination panels and high count fiber terminated in the Miller Building termination panel.

Maintenance Facility with No Miller Building - Copper – vary in size and complexity, all offices are located on one side of the facility, you do not have to traverse a large garage bay, typically 1 floor, copper cable from termination panel in a rack in the Maintenance Building to the individual data jacks.

Maintenance Facility with No Miller Building - Fiber – vary in size and complexity, to span garage bay as backbone to interconnect IDFs.

Interchange Office Building with a Miller Building – copper cable is terminated in a termination panel in a rack in the Miller Building, runs through conduit to the Interchange Office Building, and is terminated into the individual data jacks.

Interchange Office Building without a Miller Building – copper cable is terminated in a termination panel in a rack in the Interchange Office Building and runs through the building to the individual data jacks.

District Fares Office Building – vary in size and complexity, copper cable is terminated in a termination panel in a rack/cabinet in the Office Building and the cables are run through the building to the individual data jacks, average run is approximately 200 feet. Both Regional Offices have District Fares located within their building complexes.

External Buildings for some Stores, some Tradesman, some State Police, some Technician Buildings, with RF – vary in size and complexity, all network services are achieved through wireless RF technology, with a coaxial cable from the antenna on the exterior of the building to the cabinet/rack inside the building, all data cables are copper terminated to a termination panel in a rack in the building with the cables run directly to the data jacks.

Some External Buildings for Stores, some State Police Barracks, some District Fares Buildings, some Engineering Trailers, Old Interchange Office Building for Engineering, some Maintenance Facilities, some Tunnel locations - Campus Environments – vary in size and complexity, all network services are achieved through a 6, 12 or 24 strand single mode fiber run to an Interchange rack or Miller/Communication Building rack to the cabinet/rack inside each individual structure, all data cables are copper, terminated to a termination panel in a rack in the building with the cables run directly to the data jacks.

Engineering Trailers – external structures to a Maintenance Facility or Interchange, typically interconnected to turnpike private WAN either (1) utilizing a direct RF connection to the WAN, with a coaxial antenna cable routed into wall mount cabinet from exterior mounted antenna and internal horizontal UTP cabling terminated into cabinet patch panel and homerun to the station data jack or (2) a wireless access point device (A/P) homerun to cabinet mounted patch panel and patched to switch /router to private turnpike WAN via direct RF link or via cellular router over the public cellular network.

Tunnels - each tunnel end is considered a separate network – single mode fiber through tunnel end to end – most are 6 strand single mode, some fiber runs from floor to floor to connect various electronics cabinets, internal station cabling is copper that is terminated in the termination panel in a wall cabinet in the tunnel and the cables run directly to the individual data jacks, could be 2 to 3 floors but the electronics cabinet is typically on the 2nd floor switch

APPENDIX F
DISTRIBUTION OF INFRASTRUCTURE CABLING PLANTS

equipment area, some tunnels have fiber installed from external sites like tower compounds or Maintenance Miller Buildings which are typically 12 strand and can be either single mode or multimode, several tunnels have RF to Training Centers.

Training Centers – structures/trailer(s) located off an entrance to a tunnel that are connected to the network through wireless RF technology, coaxial antenna cable from the external antenna mount, to the wall mount cabinet in the training center, the internal station cabling is copper that is terminated into a termination panel in the wall mount cabinet in the structure/trailer with the cable runs terminated directly into the data jacks.

Regional Offices, Central Office and TIP Building – these offices have both copper and fiber infrastructure cabling and coaxial cable feeds for video. The Western Regional Office has fiber to the closets, copper premise cabling, copper to the desk and single mode fiber to the Tyson's Corner Tower site. The Eastern Regional Office has internal premise cabling, copper to the desk, and a RF connection to the Groundskeeper Building, with copper internal to that facility. Central Office is primarily AMP copper and fiber to the IDF's and desk, has a Communication Technician Building connected through fiber with copper to the desk and has Corning single mode fiber and Corning Edge Fiber running to the TIP Building. The TIP Building has copper premise cabling, copper to the desk, the Commission's Data Center which is an Edge Fiber solution, has BerkTek/Ortronics components with copper cable bundles and a PBX Center with single mode fiber, BerkTek/Ortronics components and copper cable bundles.

**APPENDIX G
Requirements**

	RFP#16-10350-7303 APPENDIX G - Requirements	YES	NO
1	Must have a minimum of 5 consecutive years of data cabling install and maintenance experience working with public/private statewide footprint highway transportation system		
2	Must have a minimum of 5 consecutive years of experience installing annually a minimum of 10 miles of aerial and or buried fiber optic backbone cabling alongside interstate highway rights of way and infrastructure		
3	Must be Ortronics Certified (Legrand Certificate required)		
4	Must have Amp Certification (TE Connectivity ND&I certificate required)		
5	Must be Corning certified (NPI certificate required)		
6	Must have full time BICSI RCDD on staff (Certificate Required)		
7	All Technicians must be "BICSI Technician Certified" (Certificates required)		
8	Must have full time "PE" Engineer on staff (Certificate Required)		
9	Must have Air Blown Fiber, eABF Elite Dura-Line Installer (certificate required)		
10	Must have full Time Certified Tower Climbers (Com-Train Authorized Certificates required)		
11	Must have 24/7 emergency response		
12	Must have 24/7 access to 55+ foot bucket trucks		
13	Must have full time certified CDL Technicians (to operate the bucket trucks)		
14	Must have fully equipped Splice Trailers with OTDR and core aliment fusion splicer		
15	Must have certified "Confined Space" technicians (Certificates required)		
16	Must have aerial lift, scissors and boom, qualified. (Certificates required)		
17	Must have OSHA 10 certified technicians (Certificates required)		
18	Must have Sumitomo Air Blown Fiber Licensed Installer (Certificate required)		
19	The Contractor must be a certified Corning LANscape Network Preferred Installer Member and provide evidence of current NPI program membership.		
20	The Contractor must offer a 25-year warranty for the premise/campus fiber cabling solution comprised of covered Corning Cable Systems' products and must follow all warranty registration procedures set forth by Corning Cable Systems for installations, modifications and maintenance, including submitting all required materials to Corning Cable Systems for warranty certification.		
21	The Contractor must be a Certified Installer Plus, NetClear® Warranty installer and provide evidence of program standing.		
22	The Contractor must offer a NetClear® 25-year System Warranty on the copper, premise/campus structured cabling system, comprised of BerkTek/Ortronics' products and must follow all warranty registration procedures set forth for installations, modifications and maintenance.		
23	The Contractor must be a certified AMP NetConnect Warranty provider. The Contractor must offer an AMP NetConnect 20-year System Warranty on all AMP cabling and components installed at the Commission's Administration Building.		
24	The Contractor must have previous comprehensive, (full system installation), experience for GAI-Tronics' communications equipment as stipulated in accordance with the GAI-Tronics Corporation Installation, Operation, and Maintenance Manual. Proof of successful system initialization/certification by GAI-Tronics personnel is required.		
25	The Contractor must be able to provide any electrical requirement solutions utilizing appropriately certified personnel for each task, throughout the project duration, (i.e.: additional conduit installation, electrical cable installation, receptacles and grounding, grounding bar installation, etc.).		
26	The Contractor must have a qualified Project Manager on staff assigned and available to be on site at any Commission facility as required throughout the term of the contract.		
27	The Contractor must have a certified RCDD on staff that will be available during the term of the contract to advise the Turnpike on design, architecture and strategy for infrastructure cabling planning/modifications.		
28	The Contractor must have an AutoCad operator on staff that will be available during the term of the contract.		
		Initial	Date

APPENDIX H

Industry Standards and Codes

RFP #16-10350-7303

- National Electrical Code® (NEC)® Section 770 and 800.
- Non-Plenum Applications - Applicable Flame Tests: UL 1666. Cables shall be listed OFNR (OFCR)
- Plenum Applications - Applicable Flame Test: NFPA 262. Cables shall be listed OFNP (OFCP)
- Finished cables shall conform to the applicable performance of the Insulated Cable Engineers Association, Inc. (ICEA) Standard for Fiber Optic Premises Distribution Cable (ICEA S-83-596-2001)
- The cable shall meet the requirements of ANSI/ICEA Standard for Fiber Optic Outside Plant Communications Cable, ANSI/ICEA S-87-640-2006
The cable should be in accordance with EIA/TIA-598 Optical Fiber Cable Color Coding
- The cable shall meet the requirements of ANSI/ICEA Standard for Fiber Optic Indoor/Outdoor Communications Cable, ANSI/ICEA S-104-696-2001
The cable shall meet the requirements of ANSI/ICEA Standard for Fiber Optic Inside Communications Cable, ANSI/ICEA S-83-596-2001
- The optical fiber shall be a matched-clad design manufactured by the outside vapor deposition process
- Electronic Industries Association (EIA) Publications 455 series of Standard Test Procedures for Fiber Optic Fibers, Cables, Transducers, Connecting and Terminating Devices EIA/TIA-455-61-A (FOTP-61) Measurement of Fiber or Cable Attenuation
- EIA/TIA -455-171-A Attenuation by Substitution Measurement – for Short Length Multi-mode Graded Index and Single Mode Optical Fibers Cable Assemblies
- EIA/TIA-526-14 Optical Power Loss Measurement of Installed Multi-mode Fiber Cable Plant
- EIA/TIA-455-60-A Measurements of Fiber Optic Cable Length Using an OTDR
- Nationally Recognized Testing Laboratory (NRTL) 11
ANSI/TIA/EIA - 568-B.1, Commercial Building Telecommunications Cabling Standard Part 1: General Requirements, April, 2001
- ANSI/TIA/EIA - 568-B.2, Commercial Building Telecommunications Cabling Standard Part 2: Balanced Twisted-Pair Cabling Components, April, 2001

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- ANSI/TIA/EIA - 568-B.2-1, Commercial Building Telecommunications Cabling Standard Part 2: Balanced Twisted Pair Cabling Components, Addendum 1 – Transmission Performance Specifications for 4-pair 100 Ω Category 6 Cabling
- ANSI/TIA/EIA - 568-B.3, Commercial Building Telecommunications Cabling Standard Part 3: Optical Fiber Cabling Components, March, 2000
- ANSI/TIA/EIA – 569-B, Commercial Building Standard for Telecommunications Pathways and Spaces, October, 2004
- ANSI/TIA/EIA – 570-B, Residential Telecommunications Cabling Standard, April, 2004
- ANSI/TIA/EIA – 606-A, Administration Standard for Telecommunications Infrastructure of Commercial Buildings, February, 2002
- ANSI/TIA/EIA – 607-A, Commercial Building Grounding and Bonding Requirements for
Telecommunications, October, 2002
ANSI/ TIA/EIA – 758-A, Customer-Owned Outside Plant Telecommunications Cabling Standard, August, 2004
- BICSI - TDMM, Building Industries Consulting Services International, Telecommunications Distribution Methods Manual (TDMM)
- National Fire Protection Agency (NFPA – 70), National Electrical Code (NEC) –2005
- FCC 47 CFR 68
NEMA 250
- ANSI/C2 National Electrical Safety Code
- ADA, Americans with Disabilities Act

APPENDIX I
TYPICAL REQUIRED TASKS
RFP #16-10350-7303

- Install new cable runs using the appropriate type and approved part as requested, terminate and test.
- Label all cables as designated by the Commission's labeling standard.
- Provide air blown fiber installation as requested.
- Provide mechanical or fusion splice of fiber and test.
- Install antenna mast/supports, antennas, lightening arrestors, coaxial cable, cable wrap and ground as appropriate for all RF technology solutions.
- Pull back and/or re-pull existing cable for changes, re-terminate if necessary and test.
- Provide tower climbing services as requested.
- Install or move, initialize all GAI-Tronics components as required and work in partnership with GAI-Tronics Corporation for system certification/re-certification.
- Provide cabling and all associated materials and parts and install all hardware as necessary using approved parts, to provide a working network connection.
- Provide patch cables and cross over cables for each work order or as requested.
- Re-terminate various types of patch cables or assemble patch and cross over cables as requested.
- Demolish all types of cabling infrastructure components, wireless components and GAI-Tronics components as requested.
- Provide electrical services like the installation of conduit with pull strings, junction boxes, electrification of racks, grounding as appropriate, grounding bars, etc.
- Install racks and cabinets and ground as appropriate.
- Punch down voice cable to 66 - type termination block.
- Punch down voice/data cable to 110- type termination block.
- Provide test results to the Commission's Project Manager as designated in section IV-5.
- Provide all as-built documentation and as-built updates for all cabling activities as designated in section IV-5.
- Maintain and assume all warranties.
- Provide design, strategy, advice and direction for all infrastructure cabling issues as requested.

Addendum No. 1

RFP #16-10350-7303

Infrastructure Cabling Maintenance and Communication Systems Installation

Prospective Respondents: You are hereby notified of the following information in regard to the referenced RFP:

Following are the answers to questions submitted in response to the above referenced RFP as of February 18, 2016. All of the questions have been listed verbatim, as received by the Pennsylvania Turnpike Commission.

1. Is there any sort of estimated budget? And is there an estimated start date?
This information will not be provided. Anticipated start date is August 4, 2016.
2. Will pricing need to be provided for the approved material list as part of the RFP?
No.

All other terms, conditions and requirements of the original RFP dated February 5, 2016 remain unchanged unless modified by this Addendum.