

**ADAMS COUNTY
CONSTRUCTION CONTRACT FOR 2015.136**

THIS CONSTRUCTION AGREEMENT ("Agreement") is made as of this 1st day of March, by and between the Board of County Commissioners of Adams County, Colorado, located at 4430 South Adams County Parkway, Brighton, Colorado 80601, hereinafter referred to as the "County," and, Communication Construction & Engineering, Inc., located at 2091 East 74th Avenue, Unit I, Denver, Colorado 80229, hereinafter referred to as the "Contractor."

The County and the Contractor, for the consideration herein set forth, agree as follows:

1. RESPONSIBILITIES/SERVICES OF THE CONTRACTOR

- 1.1. The Contractor shall furnish all of the labor, machinery, equipment, materials, and supplies necessary to perform all of the work shown on the plans and described in the specifications, and in all other documents incorporated herein by reference, entitled:

Request For Proposal: 2015.136 FIBER OPTIC INSTALLATIONS

- 1.2. The Contractor shall perform in accordance with the project scope and provisions of the Request for Proposal, and, in addition to the terms set forth in this Agreement, the Contractor agrees to be bound by and to perform in accordance with the following specified documents attached hereto and incorporated herein as if fully written into this Agreement:
- 1.2.1. All terms set forth in the RFP DOCUMENTS attached hereto and identified as: REQUEST FOR PROPOSAL, BID PROPOSAL, BID SCHEDULE, BID BOND, CONSTRUCTION AGREEMENT, PERFORMANCE & PAYMENT BONDS, INSURANCE, BIDDER'S CLIENT LIST, BIDDER'S CREDIT LIST, NOTICE OF AWARD, ACCEPTANCE OF NOTICE OF AWARD, NOTICE TO PROCEED, LETTER OF ACCEPTANCE, APPLICATION FOR EXEMPTION CERTIFICATE, FIELD ORDER, CHANGE ORDER, APPLICATION FOR PAYMENT, PARTIAL WAIVER OF LIEN, FINAL WAIVER OF LIEN, CERTIFICATE OF FINAL COMPLETION, PROJECT DRAWINGS AND ANY SPECIAL DETAILS.
- 1.3. The Contractor agrees that it has satisfied itself as to the nature and location of the work, the character, quality, and quantity of the materials to be encountered, including subsurface conditions, the equipment and facilities needed to complete the work, the local conditions, and all other matters which can affect the work under this Agreement and Contractor assumes the risk should the conditions enumerated in this section differ from what Contractor anticipated.
- 1.4. When required by any document incorporated into this Agreement, certain specified materials shall not be incorporated in the work until tests have been made and the material found to be in accordance with the requirements of the specifications. All costs of initial testing shall be included in the price bid. The Contractor will pay for repeated tests due to failure of initial tests.
- 1.5. This Agreement does not guarantee to the Contractor any work except as authorized in accordance with this Section I, nor does it create an exclusive agreement for services.

- 1.6. The Contractor understands that close cooperation and coordination of this project with all or other contractors or subcontractors is required.
- 1.7. Emergency Services: In the event the Adams County Board of County Commissioners declares an emergency, the County may request additional services (of the type described in this Agreement or otherwise within the expertise of Contractor) to be performed by Contractor. If County requests such additional services, Contractor shall provide such services in a timely fashion given the nature of the emergency, pursuant to the terms of this Agreement. Unless otherwise agreed to in writing by the parties, Contractor shall bill for such services at the rates provided for in this Agreement.

2. COMPLIANCE WITH C.R.S. § 8-17.5-101, ET. SEQ. AS AMENDED 5/13/08

- 2.1. Pursuant to Colorado Revised Statute (C.R.S.), § 8-17.5-101, *et. seq.*, as amended 5/13/08, the Contractor shall meet the following requirements prior to signing this Agreement (public contract for service) and for the duration thereof:
 - 2.2. The Contractor shall certify participation in the E-Verify Program (the electronic employment verification program that is authorized in 8 U.S.C. § 1324a and jointly administered by the United States Department of Homeland Security and the Social Security Administration, or its successor program) or the Department Program (the employment verification program established by the Colorado Department of Labor and Employment pursuant to C.R.S. § 8-17.5-102(5)) on the attached certification.
 - 2.3. The Contractor shall not knowingly employ or contract with an illegal alien to perform work under this public contract for services.
 - 2.4. The Contractor shall not enter into a contract with a subcontractor that fails to certify to the Contractor that the subcontractor shall not knowingly employ or contract with an illegal alien to perform work under this public contract for services.
 - 2.5. At the time of signing this public contract for services, the Contractor has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this public contract for services through participation in either the E-Verify Program or the Department Program.
 - 2.6. The Contractor shall not use either the E-Verify Program or the Department Program procedures to undertake pre-employment screening of job applicants while this public contract for services is being performed.
 - 2.7. If Contractor obtains actual knowledge that a subcontractor performing work under this public contract for services knowingly employs or contracts with an illegal alien, the Contractor shall: notify the subcontractor and the County within three days that the Contractor has actual knowledge that the subcontractor is employing or contracting with an illegal alien; and terminate the subcontract with the subcontractor if within three days of receiving the notice required pursuant to the previous paragraph, the subcontractor does not stop employing or contracting with the illegal alien; except that the contractor shall not terminate the contract with the

subcontractor if during such three days the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with an illegal alien.

2.8. Contractor shall comply with any reasonable requests by the Department of Labor and Employment (the Department) made in the course of an investigation that the Department is undertaking pursuant to the authority established in C.R.S. § 8-17.5-102(5).

2.9. If Contractor violates this Section II of this Agreement, the County may terminate this Agreement for breach of contract. If the Agreement is so terminated, the Contractor shall be liable for actual and consequential damages to the County.

3. RESPONSIBILITIES OF THE COUNTY

The County shall:

3.1. Provide information as to its requirements for the project.

3.2. Give prompt notice to the Contractor whenever the County observes or otherwise becomes aware of any defect in the project.

3.3. Provide reasonable assistance to the Contractor in obtaining approval from all governmental authorities having jurisdiction over the project, and such approvals and consents from such other individuals or bodies as may be necessary for completion of the project.

3.4. Furnish, or direct the Contractor to provide, at the County's expense, necessary additional services.

4. TERM

4.1. The work to be performed under this Agreement shall be for 120 days.

5. PAYMENT AND FEE SCHEDULE

5.1. The County shall pay the Contractor for services furnished under this Agreement, and the Contractor shall accept as full payment for those services, the sum of two hundred thirty-one thousand, seven hundred sixty-nine dollars and sixty-five cents (\$231,769.65).

5.2. The Contractor shall maintain hourly records of time worked by its personnel to support any audits the County may require, and shall bill the County monthly for costs accrued during the preceding month. Payments on these billings will be subject to estimates prepared by the Project Manager of the value of work performed and materials delivered and materials placed in accordance with the specifications. Upon submission of such billings to the County and approval by the Project Manager, payment shall be issued. It is understood and agreed that the County may require a maximum of thirty-one (31) days to process payment after receiving billing in proper the form.

5.3. The County may deduct money from the partial payments in an amount necessary to protect the interests of the County, and is dependent upon the following:

5.3.1. If the Agreement is for one hundred fifty thousand dollars (\$150,000) or more, the County shall withhold five percent (5%) of monthly partial payments until the contract is completed satisfactorily and finally accepted by the County. For Agreements less than one hundred fifty thousand dollars (\$150,000), the County may withhold more than five percent (5%).

5.3.2. All money withheld pursuant to this section shall be retained by the County no more than thirty (30) days after the project has been completed to satisfaction and has been finally accepted by the County. If the County finds that satisfactory progress is being made in all phases of the Agreement, the County may, upon written request of the Contractor, authorize payment from the withheld percentage. Before such payment is made, the County shall determine that satisfactory and substantial reasons exist for the payment, and shall require written approval from any surety furnishing bonds for the work performed under the terms of this Agreement.

5.4. Fund Availability: The County has appropriated sufficient funds for this Agreement for the current fiscal year. Payment pursuant to this Agreement, whether in full or in part, is subject to and contingent upon the continuing availability of County funds for the purposes hereof. In the event funds become unavailable, as determined by the County, the County may immediately terminate this Agreement or amend it accordingly. To the extent allowed by the Colorado Taxpayer Bill of Rights and Title 29 of the Colorado Revised Statutes, the County represents that it has appropriated an amount of money for this Agreement that is at least equal to the contract price.

6. LIQUIDATED DAMAGES

6.1. The Contractor agrees that time is of the essence in the performance of this Agreement. If the Contractor is delayed for any reason beyond its control, the Contractor shall submit the reason for the delay in writing to the Project Manager who shall decide whether it sufficiently justifies an extension of the completion date.

6.2. All decisions of the Project Manager are at his/her complete discretion and will be final.

Original Amount		Daily Charge
From More Than	Up To and Including	Amount
0	150,000	500
150,000	250,000	600
250,000	500,000	800
500,000	1,000,000	1,400
1,000,000	2,000,000	2,000
2,000,000	4,000,000	3,300
4,000,000	10,000,000	3,900
10,000,000	and up	3,900*
* plus 300 per each additional \$1,000,000 contract amount or part thereof over \$10,000,000		

- 6.3. Time is of the essence in the performance of this Agreement. In the event the Contractor shall fail to complete all the work to be performed by the completion time aforementioned, the Contractor shall pay to the County as and for liquidated damages, not as a penalty, the applicable sum set forth in the schedule below, for each and every calendar day that the Contractor shall be in default. From more than to and including:
- 6.4. Any deduction assessed as liquidated damages under this section shall not relieve the Contractor from liability for any damages or costs resulting from delays to other contractors on the job or to other projects caused by a failure of the Contractor to complete the work according to the agreed time.
- 6.5. Any extension(s) of the completion date authorized by the Project Manager pursuant to this section shall not relieve the Contractor from liability for any damages or costs resulting from delays to other contractors on the job. The Contractor agrees to indemnify and hold the County harmless from any claim against the County resulting from the Project Manager authorizing an extension of the completion date or from the Contractor's failure to complete this Agreement by the completion date aforementioned.
- 6.6. Permitting the Contractor to continue and finish the work, or any part thereof, after elapse of the agreed time will not operate as a waiver on the part of the County of any of its rights under this Agreement.
7. **DAMAGES ARISING FROM BREACH OF PERFORMANCE OBLIGATIONS**
- 7.1. Notwithstanding anything else set forth in this Agreement, if Contractor fails to comply with all terms of this contract, including but not limited to, its obligation to perform its work in a workmanlike manner in accordance with all codes, plans, specifications and industry standards, Contractor shall be liable to County for all damages arising from the breach, including but not limited to, all attorney fees, costs and other damages.
8. **WARRANTY**
- 8.1. The Contractor warrants and guarantees to the County that all work, equipment, and materials furnished under the Agreement are free from defects in workmanship and materials for a period of one year after final acceptance by the County. The Contractor further warrants and guarantees that the plans and specifications incorporated herein are free of fault and defect sufficient for Contractor to warrant the finished product after completion date. Should the Contractor fail to proceed promptly in accordance with this guarantee, the County may have such work performed at the expense of the Contractor. This section does not relieve the Contractor from liability for defects that become known after one year.
9. **SUBCONTRACTING**
- 9.1. The Contractor may utilize the services of subcontractors on those parts of the work that would normally be performed by subcontractors. But the Contractor shall not subcontract any portion of the work until the written approval of such action has been obtained from the Project Manager. The Contractor shall be fully responsible to the County for the acts and omissions of its subcontractors and their employees.

10. CHANGE ORDERS OR EXTENSIONS

- 10.1. The County may, from time to time, require changes in the scope of the services of the Contractor to be performed herein including but not limited to additional instructions, additional work, and the omission of work previously ordered. The Contractor shall be compensated for all authorized changes in services, pursuant to the applicable provision in the Invitation to Bid, or, if no provision exists, pursuant to the terms of a Change Order. No Change Order shall be issued unless the County has appropriated sufficient funds to pay for the Change Order in the event the amount due pursuant to the Agreement as altered by the Change Order would result in the total contract price exceeding the amount originally appropriated by the County for the Agreement.
- 10.2. The County may, upon mutual written agreement by the parties, extend the time of completion of services to be performed by the Contractor.

11. INSPECTIONS, REVIEWS AND AUDITS

- 11.1. When the work is completed, the Contractor shall file a written notice with the Project Manager that the work, in the opinion of the Contractor, has been finished. Within ten (10) days after the Contractor files the written notice, the Project Manager and the Contractor shall make a final inspection of the project to determine whether all of the work has been completed in accordance with this Agreement and with all documents incorporated herein. A final list shall be made by the County, in sufficient detail to fully outline to the Contractor the following items:
- 11.1.1. Work to be completed, if any; and,
 - 11.1.2. Work not in compliance with the Agreement, if any; and,
 - 11.1.3. Unsatisfactory work for any reason, if any.
- 11.2. The County shall not authorize final payment until all items on the list, if any, have been completed to the satisfaction of the Project Manager.

12. CLEAN-UP

- 12.1. The Contractor shall frequently clean up all refuse or scrap materials resulting from the progress of the work. Upon completion of the work and prior to final inspection, the Contractor shall remove from the construction site and occupied adjoining property all refuse, unused materials, forming lumber, sanitary facilities, and any other materials belonging to the Contractor or subcontractors. Failure of the Contractor to clean up and restore the site satisfactorily will result in the County doing so. The cost will be charged to the account of the Contractor or his/her surety.

13. PROJECT ADMINISTRATION

- 13.1. The Project Manager for this Agreement shall be Andy Koehler, who can be reached by phone at 720-523-6135. The Project Manager does not have the authority to alter or modify the terms of this Agreement.
- 13.2. The Project Manager is designated by the County to exercise authority on its behalf under this Agreement, and to see that it is performed according to its terms. The Project Manager shall furnish all explanations or directions and inspections necessary to carry out and complete satisfactorily the services contemplated and provided for under this Agreement. The Project Manager shall also approve all report formats and related procedures, and shall be responsible for final acceptance of all work performed. Any conflict between the plans or specifications,

and any other document incorporated herein, shall be submitted in writing to the Project Manager for review and determination.

13.3. If the Contractor considers any work demanded to be outside the Agreement requirements, or considers any determination of the Project Manager to be unfair, the Contractor shall immediately ask for a written instruction or decision from the Project Manager and shall proceed to perform the services to conform to the Project Manager's determination. If the Contractor considers such instructions or decision to be unsatisfactory, it shall, within five (5) days after their receipt, file a written protest with the Adams County Purchasing Office stating the objections and the reasons therefore. Unless protests or objections are made in the manner specified and within the time limit stated herein, the Contractor hereby waives all grounds for protests.

13.4. All claims, disputes, and other matters in question arising out of or relating to the Agreement documents or breach thereof between the Project Manager and the Contractor shall be submitted to the Adams County Purchasing Office.

14. NONDISCRIMINATION

14.1. The Contractor shall not discriminate against any employee or qualified applicant for employment because of age, race, color, religion, marital status, disability, sex, or national origin. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices provided by the local public agency setting forth the provisions of this nondiscrimination clause.

14.1.1. The Contractor will cause the foregoing provisions to be inserted in all subcontracts for any work covered by this Agreement so that such provisions will be binding upon each subcontractor, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.

15. INDEPENDENT CONTRACTOR

15.1. In providing services under this Agreement, the Contractor acts as an independent contractor and not as an employee of the County. The Contractor shall be solely and entirely responsible for his /her acts and the acts of his /her employees, agents, servants, and subcontractors during the term and performance of this Agreement. No employee, agent, servant, or subcontractor of the Contractor shall be deemed to be an employee, agent, or servant of the County because of the performance of any services or work under this Agreement. The Contractor, at its expense, shall procure and maintain workers' compensation insurance as required by State law and personal injury and property damage insurance in the coverage amounts as described in Section XIV. **Pursuant to the Workers' Compensation Act § 8-40-202(2)(b)(IV), C.R.S., as amended, the Contractor understands that it and its employees and servants are not entitled to workers' compensation benefits from the County. The Contractor further understands that it is solely obligated for the payment of federal and state income tax on any moneys earned pursuant to this Agreement.**

16. INDEMNIFICATION

16.1. The Contractor agrees to indemnify and to hold the County and its agents harmless for, from, and against any and all claims, suits, expenses, damages or other liabilities, including reasonable attorney fees and court costs, arising out of damage or injury to persons or property

caused or sustained by any person, persons, or entities as a result of the performance or failure of the Contractor, its agents or employees, or any subcontractor to provide services pursuant to the terms of this Agreement.

17. INSURANCE

17.1. The Contractor shall furnish a certificate of insurance for commercial general liability, comprehensive automobile liability, workers' compensation, and professional liability upon notification of award and prior to performance. Work shall not commence under this Agreement until the Contractor has submitted to the County, and received approval thereof, the certificate of insurance showing compliance with the following types and coverage of insurance.

17.1.1. Commercial General Liability Insurance: to include products liability, completed operations, contractual, broad form property damage, and personal injury.

Each Occurrence	\$1,000,000
General Aggregate	\$2,000,000

17.1.2. Comprehensive Automobile Liability Insurance: to include all motor vehicles owned, hired, leased, or borrowed.

Bodily Injury/Property Damage	\$1,000,000 (each accident)
Personal Injury Protection	Per Colorado Statutes

17.1.3. Workers' Compensation Insurance: Per Colorado Statutes

17.1.4. Professional Liability Insurance*: to include coverage for damages or claims for damages arising out of the rendering, or failure to render, any professional services.

Each Occurrence	\$1,000,000
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*This insurance requirement applies only to Contractors who are performing services under this Agreement as professionals licensed under the laws of the State of Colorado, such as physicians, lawyers, engineers, nurses, mental health providers, and any other licensed professionals.

17.2. The Contractor's commercial general liability, comprehensive automobile liability, workers' compensation, and professional liability insurance policies and/or certificates of insurance shall be issued to include Adams County and the Colorado Department of Transportation (CDOT) as an "additional insured" and shall include the following provisions:

17.2.1. Underwriters shall have no right of recovery or subrogation against the County, it being the intent of the parties that the insurance policies so affected shall protect both parties and be primary coverage for any and all losses resulting from the actions or negligence of the Contractor.

17.2.2. The insurance companies issuing the policy or policies shall have no response against the County for payment of any premiums due or for any assessments under any form of any policy.

17.2.3. Any and all deductibles contained in any insurance policy shall be assumed by and at the sole risk of the Contractor.

17.3. If any of the said policies shall be or at any time become unsatisfactory to the County as to form or substance, or if a company issuing any such policy shall be or at any time becomes unsatisfactory to the County, the Contractor shall promptly obtain a new policy, submit the

same to the Purchasing Agent of Adams County for approval, and thereafter submit a certificate of insurance as herein provided. Upon failure of the Contractor to furnish, deliver, and maintain such insurance as provided herein, this Agreement, at the election of the County, may be immediately declared suspended, discontinued, or terminated. Failure of the Contractor to obtain and/or maintain any required insurance shall not relieve the Contractor from any liability under the Agreement, nor shall the insurance requirements be construed to conflict with the obligations of the Contractor concerning indemnification.

- 17.4. If the Contractor is a Joint Venture, then the respective parties thereto are each individually held fully responsible for completion of the project according to the terms of this Agreement. The parties thereto also have joint and several liabilities to the County for any liquidated damages assessed or for performance bond claims against the Joint Venture. The performance bond and all insurance required by this Agreement shall set forth the identity of each party to the Joint Venture.

18. TERMINATION

- 18.1. Termination of Agreement for the Convenience of the County: The County, at its sole option and discretion, may terminate this Agreement at any time by giving written notice to the Contractor of such termination and specifying the effective date thereof, at least fifteen days before the effective date of termination. If the Agreement is terminated by the County, the Contractor will be paid an amount which bears the same ratio to the total compensation as the services actually performed bear to the total services of the Contractor covered by this Agreement, less payments of compensation previously made.
- 18.2. Termination of Agreement for Cause: If, through any cause, the Contractor shall fail to fulfill its obligations under this Agreement in a timely and proper manner, or if the Contractor shall violate any of the covenants, agreements, or stipulations of this Agreement, the County shall thereupon have the right to immediately terminate this Agreement upon giving written notice to the Contractor of such termination and specifying the effective date thereof.
- 18.3. Ownership of Partially Completed Work: All work accomplished by the Contractor prior to the date of such termination shall be recorded and tangible work documents shall be transferred to and become the sole property of the County prior to payment for services rendered.
- 18.4. Notwithstanding the above, the Contractor shall not be relieved of liability to the County for damages sustained by the County by virtue of any breach of the Agreement by the Contractor and for the purposes of setoff until such time as the exact amount of damages due the County from the Contractor is determined.

19. BONDING:

- 19.1. The Contractor shall secure a Performance Bond and a Payment Bond each in the amount of one hundred percent (100%) of the Agreement price with a corporate surety approved by the County and licensed to do business in the State of Colorado, said bonds to be released at the sole discretion of the County.

20. MUTUAL UNDERSTANDINGS

- 20.1. Jurisdiction and Venue: The laws of the State of Colorado shall govern as to the interpretation, validity, and effect of this Agreement. The parties agree that venue and jurisdiction for disputes regarding performance of this Agreement are with the District Court of Adams County, Colorado.
- 20.2. Compliance with Laws: The Contractor, at all times during the performance of this Agreement, agrees to strictly adhere to all applicable federal, state, and local laws, rules, and regulations that affect or govern the work as contemplated under this Agreement. If applicable, the Contractor and subcontractors shall abide by all applicable provisions of the Davis-Bacon Act for payment of wages to employees and the Contract Work Hours and Safety Standards Act. The parties hereto aver that they are familiar with §§ 18-3-301, et seq., C.R.S. (Bribery and Corrupt Influences), as amended, and §§ 18-8-401, et seq., C.R.S. (Abuse of Public Office), as amended, the Clean Air Act (42 U.S.C. 7401-7671q), and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended, and that no violation of such provisions are present. Contractor warrants that it is in compliance with the residency requirements in §§ 8-17-101, et seq., C.R.S.
- 20.3. Record Retention: The Contractor shall maintain records and documentation of the services provided under this Agreement, including fiscal records, and shall retain the records for a period of three (3) years from the date this Agreement is terminated. Said records and documents shall be subject at all reasonable times to inspection, review, or audit by authorized federal, state, or county personnel.
- 20.4. Assignability: Neither this Agreement, nor any rights hereunder, in whole or in part, shall be assignable or otherwise transferable by the Contractor without the prior written consent of the County.
- 20.5. Waiver: Waiver of strict performance or the breach of any provision of this Agreement shall not be deemed a waiver, nor shall it prejudice the waiving party's right to require strict performance of the same provision, or any other provision in the future, unless such waiver has rendered future performance commercially impossible.
- 20.6. Force Majeure: Neither party shall be liable for any delay or failure to perform its obligations hereunder to the extent that such delay or failure is caused by a force or event beyond the control of such party including, without limitation, war, embargoes, strikes, governmental restrictions, riots, fires, floods, earthquakes, or other acts of God.
- 20.7. Notice: Any notices given under this Agreement are deemed to have been received and to be effective:
- 20.7.1. Three (3) days after the same shall have been mailed by certified mail, return receipt requested; and,
 - 20.7.2. Immediately upon hand delivery; or,
 - 20.7.3. Immediately upon receipt of confirmation that an E-mail was received.
 - 20.7.4. For the purposes of this Agreement, any and all notices should be addressed to the contacts listed below:

Department: Adams County Information Technology Department
Contact: Andy Koehler
Address: 4430 South Adams County Parkway
City, State, Zip: Brighton, Colorado 80601
Phone: 720-523-6135
E-mail: AKoehler@adcogov.org

Department: Adams County Purchasing
Contact: Anna Forristall
Address: 4430 South Adams County Parkway
City, State, Zip: Brighton, Colorado 80601
Phone: 720-523-6297
E-mail: AForristall@adcogov.org

Department: Adams County Attorney's Office
Address: 4430 South Adams County Parkway
City, State, Zip: Brighton, Colorado 80601
Phone: 720.523.6116

Contractor: Communication Construction & Engineering, Inc.
Contact: Russell Moore
Address: 2091 E. 74th Avenue, Unit I
City, State, Zip: Denver, CO 80229
Phone: 303-906-5156
E-mail: RussM@CommunicationConstruction.com

- 20.8. Integration of Understanding: This Agreement contains the entire understanding of the parties hereto and neither it, nor the rights and obligations hereunder, may be changed, modified, or waived except by an instrument in writing that is signed by the parties hereto.
- 20.9. Severability: If any provision of this Agreement is determined to be unenforceable or invalid for any reason, the remainder of this Agreement shall remain in effect, unless otherwise terminated in accordance with the terms contained herein.
- 20.10. Authorization: Each party represents and warrants that it has the power and ability to enter into this Agreement, to grant the rights granted herein, and to perform the duties and obligations herein described.
- 20.11. Confidentiality: All documentation related to this Agreement will become the property of Adams County. All documentation maintained or kept by Adams County shall be subject to the Colorado Open Records Act, C.R.S. 24-72-201 *et seq.* ("CORA"). The County does not guarantee the confidentiality of any records.

The remainder of this page is left blank intentionally.

IN WITNESS WHEREOF, the Parties have caused their names to be affixed hereto:

Board of County Commissioners

Steven J. Sorisio _____ Date 3/1/16 _____
Chairperson

Communication Construction & Engineering, Inc.

[Signature] _____ Date 2-22-16 _____
Signature

Russell Moore _____ Title President _____
Printed Name

Attest:

Stan Martin, Clerk and Recorder [Signature] _____
Deputy Clerk

Approved as to Form:

[Signature] _____
Adams County Attorney's Office

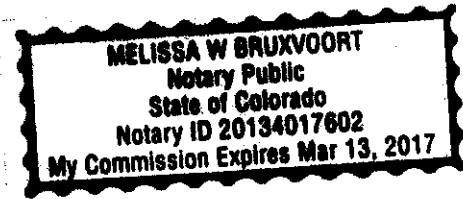
NOTARIZATION OF CONTRACTOR'S SIGNATURE:

COUNTY OF Adams)

STATE OF Colorado) SS.

Signed and sworn to before me this 22nd day of February, 2016,

[Signature] _____
[Signature] _____
Notary Public



My commission expires on: 03/13/2017 _____

Addendum 1

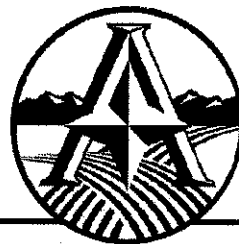
**ADAMS COUNTY FORMAL REQUEST FOR PROPOSAL
2015.136**

**Fiber Optic Installation for the
Adams County Human Services Building**

**All documents and Addendum related to this RFP
will be posted on the Rocky Mountain Bid System at:
<http://www.rockymountainbidsystem.com/Bids/ViewOpenSolicitations.asp>**

**Proposal Opening Date: November 24, 2015
Time: 2:00 pm MDT**

**Location: Adams County Government Center
4430 South Adams County Parkway
4th Floor, C4000A
Brighton, CO 80601**



ADAMS COUNTY
COLORADO

RFP 2015.136 FIBER OPTIC INSTALLATION FOR HUMAN SERVICES CENTER

The purpose of this addendum is to answer any submitted questions for this RFP.

1. Are the existing building-street conduits empty?
 - Cherokee: No. The Cherokee conduit has one existing 96 strand armored cable.
 - HSC: Yes.
 - WSC: No, there is an existing CenturyLink feed cable, but there is sufficient room for adding a 96 strand armored cable.
2. Is there Jet Line in the existing conduits?
 - No.
3. What is the length of the conduit going from the pull box on the street to the buildings?
 - Cherokee Tower: Approximately 290'
 - Human Service Center: Approximately 670'
 - Western Service Center: Approximately 300'
4. Adams County is asking for one pair of fiber to be connected between Cherokee and Western Service Center before the fiber is terminated at the Human Services Center. Can this be spliced together in the vault at Human Services Center?
 - Yes.
5. Use schedule 80 or Schedule 40 for the conduit?
 - Schedule 40.
6. What is the lid rating on the pull box lids? Tier 15? Tier 20?
 - Tier 15.
7. Has Adams County created engineered drawings, or secured right-of-way permissions from the appropriate municipalities for this project?
 - No. The winning contractor will be required to create the necessary engineered drawings for this project, and submit them to the City of Westminster (or any other municipalities as necessary,) and also to apply for, and secure all necessary permits, including right-of-way permits.
8. Do you want single mode fiber?
 - Yes.
9. What brand of fiber is required?
 - Corning (glass).
10. What are the dB loss requirements for fiber testing?
 - Contractor must conform to EIA/TIA 568 standards for dB loss for the entire run, including connectors. Per the statement of work, test results will be provided to Adams County upon completion.
11. Are there any service loops?
 - Yes, 50 foot service loops should be placed inside every pull box.
12. Is there existing conduit on the second floor of the Western Service Center?
 - For the purposes of this RFP, assume that there is a conduit path, but see #13.
13. Is plenum-rated cable required for inside the buildings:
 - For both the Cherokee equipment building and the HSC Building, assume that there will be interior conduit going all the way to the demarcation room, and that plenum cable will not be necessary. For the WSC building only, please provide

two pricing options: 1. Using 200 ft of plenum cable spliced into the armored cable, and 2. Using armored cable all the way into the 2nd floor demarcation room.

14. Provide estimated cable length footages for the inside of the buildings.
 - Cherokee: Approximately 30 ft
 - HSC: Approximately 50 ft
 - WSC: Approximately 200 ft
15. Who will take responsibility for cable once it's installed at the HSC construction site until it's completed?
 - Adams County and the general contractor of the construction site will take full responsibility for the cable during construction once it has been coiled and placed inside the vault at HSC.
16. Clarify Davis Bacon/ prevailing wages.
 - This is a County project and will be paid for by County funds. Since this is not a Federal project Davis Bacon is part of the requirements for this project.
17. Clarify Bonding language: The bonding language is still under review and will be released in a second addendum on Monday November, 16 2015.
18. Verify if tax exempt under the City of Westminster.
 - Yes, Adams County is a tax exempt organization. If the contractor is concerned that local sales taxes will need to be paid for materials, please include pricing both with tax and without tax. Adams County will make its best effort to ensure that it will not have to pay any sales tax.
19. What are the signage requirements?
 - Marking posts should be placed next to every pull box with the following verbiage: " Adams County Government Fiber – phone number 720-523-6063"
20. What are the minimum/maximum depth requirements for the underground boring?
 - 2 ft minimum, 4 ft maximum

End of Scope of Work

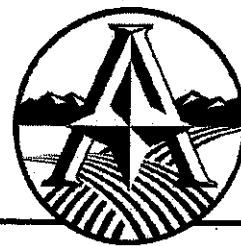
**ADAMS COUNTY FORMAL REQUEST FOR PROPOSAL
2015.136 ADDENDUM 2**

**Fiber Optic Installation for the
Adams County Human Services Building**

**All documents and Addendum related to this RFP
will be posted on the Rocky Mountain Bid System at:
<http://www.rockymountainbidsystem.com/Bids/ViewOpenSolicitations.asp>**

**Proposal Opening Date: November 24, 2015
Time: 2:00 pm MDT**

**Location: Adams County Government Center
4430 South Adams County Parkway
4th Floor, C4000A
Brighton, CO 80601**



ADAMS COUNTY
COLORADO

RFP 2015.136 FIBER OPTIC INSTALLATION FOR HUMAN SERVICES CENTER
ADDENDUM 2

The purpose of this addendum is to clarify the bonding language for this project.

- A Performance Bond and Surety Bond, each in a penal sum equal to the nearest integral One Hundred Dollars in excess of the estimated Contract Price with corporate surety approved by the County, will be requested for faithful performance of the Contract.
- The Agreement shall be signed by the successful bidder and returned together with the Performance Bond and Surety Bond within ten (10) days after the date of the award

End of Addendum 2

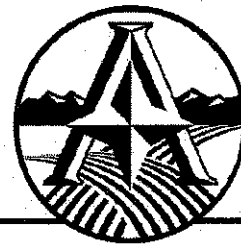
**ADAMS COUNTY FORMAL REQUEST FOR PROPOSAL
2015.136**

**Fiber Optic Installation for the
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Brighton, CO 80601**



ADAMS COUNTY
COLORADO

GENERAL INSTRUCTIONS

1. The Adams County Board of Commissioners by and through its Purchasing Division of the Finance Department is accepting proposals for 2015.136 Fiber Optic Installation for the Adams County Human Services Building.
2. **All documents related to this RFP will be posted on the Rocky Mountain Bid System at:**
<http://www.rockymountainbidsystem.com/Bids/ViewOpenSolicitations.asp>
 - 2.1. Interested parties must register with this service to receive these documents.
 - 2.2. This service is offered free or with an annual fee for automatic notification services.
3. Written questions may be submitted through November 10th, 2015. All questions are to be submitted to bbonasera@adcogov.org, Contract Administrator by email at bbonasera@adcogov.org.
4. An Addendum to answer all questions will be issued no later than November 13, 2015.
5. There will be a **Mandatory Pre-Proposal conference** on November 9, 2015 at 1:00 p.m. located at the Adams County Government Center in Conference Room Brantner Gulch A at 4430 S Adams County Parkway, Brighton, Colorado 80601.
6. Proposals
 - 6.1. Sealed proposals for consideration will be received at the office of the Purchasing Division of the Finance Department at the Adams County Government Center, 4430 South Adams County Parkway, Fourth Floor, C4000A Brighton Colorado 80601, up to 2:00 p.m. on November 24, 2015.
 - 6.2. **Pricing MUST be sealed separately with proposal submission. Please provide two copies of submitted pricing in a sealed clearly marked envelope with the IFB number name, firms name, address, phone number and contact. Do NOT submit any pricing directly in the RFP.**
 - 6.3. The proposal opening time shall be according to our clock.
 - 6.4. Proposals may be mailed or delivered in person and **must be** in a sealed envelope clearly labeled with Company Name, Proposal Number and Project Title.
 - 6.5. No proposals will be accepted after the time and date established above except by written addenda.
 - 6.6. The proposal must be submitted on a CD in a single PDF file not to exceed 40 pages. Brochures or other supportive documents may be included with the proposal narrative.

- 6.7. The two proposal signature pages "**CONTRACTOR'S CERTIFICATION OF COMPLIANCE**" pursuant to Colorado Revised Statute (C.R.S.), § 8-17.5-101, *et seq.*, as amended 5/13/08, and the "**PROPOSAL FORM**" acknowledging the receipt of addendum(s) must be signed and included as hard copy with the CD. These are the **last two pages of the RFP**.
- 6.8. Proposals may not be withdrawn after date and hour set for closing. Failure to enter contract or honor the purchase order will be cause for removal of supplier's name from the Vendor's List for a period of twelve (12) months from the date of this opening.
- 6.9. In submitting the proposal, the vendor agrees that acceptance of any or all proposals by the Purchasing Manager within a reasonable time or period constitutes a contract. No delivery shall become due or be accepted unless a purchase order shall first have been issued by the Purchasing Division.
- 6.10. The County assumes no responsibility for late deliveries of mail on behalf of the United States Post Office or any other delivery system.
- 6.11. The County assumes no responsibility for a proposal being either opened early or improperly routed if the envelope is not clearly marked on the outside: Fiber Optic Installation for the Adams County RFP 2015.136.
- 6.12. In the event of a situation severe enough to cause the Adams County Board of Commissioners to close the County offices for any reason, the Purchasing Manager has the prerogative of rescheduling the proposal opening time and date. No proposal will be considered above all other proposals by having met the proposal opening time and date requirements to the exclusion of those who were unable to present their proposal due to a situation severe enough to cause the Board of Commissioners to close the County offices.
- 6.13. Proposal must be submitted in the format supplied and/or described by the County. Failure to submit in the format provided may be cause for rejection of the proposal. Proposals must be furnished exclusive of taxes.
- 6.14. No award will be made to any person, firm, or corporation, which is in arrears upon any obligation to the County.
- 6.15. If submitting a joint venture proposal or a proposal involving a partnership arrangement, articles of partnership stating each partner's responsibilities shall be furnished and submitted with the proposal.
- 6.16. The County reserves the right to waive any irregularities or informalities, and the right to accept or reject any and all proposals, including but not limited to:
 - 6.16.1. Any Proposal which does not meet bonding requirements, or,
 - 6.16.2. Proposals which do not furnish the quality, or,

- 6.16.3. Offer the availability of materials, equipment or services as required by the specifications, description or scope of services, or,
- 6.16.4. Proposals from offerors who lack experience or financial responsibility, or,
- 6.16.5. Proposals which are not made to form.

- 6.17. The Board of County Commissioners may rescind the award of any proposal within one week thereof or at its next regularly scheduled meeting; whichever is later, when the public interest will be served thereby.

- 6.18. Issuance of this solicitation does not commit the County to award any Agreement or to procure or Agreement for any equipment, materials or services.

- 6.19. If a formal Agreement is required, the Contractor agrees and understands that a Notice of Award does not constitute an Agreement or create a property interest of any nature until an Agreement is signed by the Awardee and the Board of County Commissioners and/or their authorized designee.

- 6.20. Only sealed proposals received by the Purchasing Division of the Finance Department will be accepted; proposals submitted telephone, email, or facsimile machines are not acceptable.

- 6.21. All documentation submitted in response to this solicitation will become the property of Adams County. All documentation maintained or kept by Adams County shall be subject to the Colorado Open Records Act. C.R.S. 24-72-201 *et. seq.* ("CORA"). Accordingly, respondents are discouraged from providing information that they consider confidential, privileged, and/or trade secrets as part of a response to this solicitation. Any portions of submissions that are reasonably considered confidential should be clearly marked. The County does not guarantee the confidentiality of any records.

- 7. Adams County is an equal opportunity employer.

- 8. The County ensures that disadvantaged business enterprises will be afforded full opportunity to submit bids in response to all invitations and will not be discriminated against on the grounds of race, color, national origin, age, gender, or disability in consideration for an award.

- 9. COOPERATIVE PURCHASING: Adams County encourages cooperative purchasing in an effort to assist other agencies to reduce their cost of bidding and to make better use of taxpayer dollars through volume purchasing. Contractor(s) may, at their discretion, agree to extend the prices and/or terms of the resulting award to other state or local government agencies, school districts, or political subdivisions in the event they would have a need for the same product/service. Usage by any entity shall not have a negative impact on Adams County in the current term or in any future terms.

The Contractor(s) must deal directly with any governmental agency concerning the placement of purchase orders/agreements, freight/delivery charges, contractual disputes, invoices, and payments. Adams County shall not be liable for any costs or damages incurred by any other entity.

10. **INSURANCE:** The Contractor agrees to maintain insurance of the following types and amounts:

10.1. Commercial General Liability Insurance: to include products liability, completed operations, contractual, broad form property damage and personal injury.

10.1.1. Each Occurrence \$1,000,000

10.1.2. General Aggregate \$2,000,000

10.2. Comprehensive Automobile Liability Insurance: to include all motor vehicles owned, hired, leased, or borrowed.

10.2.1. Bodily Injury/Property Damage \$1,000,000 (each accident)

10.2.2. Personal Injury Protection Per Colorado Statutes

10.3. Workers' Compensation Insurance: Per Colorado Statutes

10.4. Professional Liability Insurance: to include coverage for damages or claims for damages arising out of the rendering, or failure to render, any professional services.

10.4.1. Each Occurrence \$1,000,000

10.4.2. This insurance requirement applies only to Contractors who are performing services under this Agreement as professionals licensed under the laws of the State of Colorado, such as physicians, lawyers, engineers, nurses, mental health providers, and any other licensed professionals.

10.5. The Contractor's commercial general liability, and comprehensive automobile liability insurance policies and/or certificates of insurance shall be issued to include Adams County as an "additional insured," and shall include the following provisions:

10.5.1. Underwriters shall have no right of recovery or subrogation against the County, it being the intent of the parties that the insurance policies so affected shall protect both parties and be primary coverage for any and all losses resulting from the actions or negligence of the Contractor.

10.5.2. The insurance companies issuing the policy or policies shall have no response against the County for payment of any premiums due or for any assessments under any form of any policy.

10.5.3. Any and all deductibles contained in any insurance policy shall be assumed by and at the sole risk of the Contractor.

10.6. All insurers of the Contractor must be licensed or approved to do business in the State of Colorado. Upon failure of the Contractor to furnish, deliver and/or maintain such insurance as provided herein, this Agreement, at the election of the County, may be immediately declared suspended, discontinued, or terminated. Failure of the Contractor in obtaining and/or maintaining any required insurance shall not relieve the Contractor

from any liability under this Agreement, nor shall the insurance requirements be construed to conflict with the obligations of the Contractor concerning indemnification.

- 10.7. Each insurance policy herein required shall be endorsed to state that coverage shall not be suspended, voided, or canceled without thirty (30) days prior written notice by certified mail, return receipt requested, to the County.
- 10.8. At any time during the term of this Agreement, the County may require the Contractor to provide proof of the insurance coverage's or policies required under this Agreement.
- 10.9. The Contractor shall not commence work under this contract until they have submitted to the County and received approval thereof, certificates of insurance showing that they have complied with the foregoing insurance.
- 10.10. All referenced insurance policies and/or certificates of insurance shall be issued to include Adams County as an "additional insured." The name of the proposal or project must appear on the certificate of insurance.
- 10.11. Underwriters shall have no right of recovery or subrogation against the County; it being the intent of the parties that the insurance policies so affected shall protect both parties and be primary coverage for any and all losses covered by the described insurance.
- 10.12. The clause entitled "Other Insurance Provisions" contained in any policy including the County as an additional insured shall not apply to The County.
- 10.13. If any of the said policies shall be or at any time become unsatisfactory to the County as to form or substance, or if a company issuing any such policy shall be or at any time become unsatisfactory to the County, the Contractor shall promptly obtain a new policy, submit the same to the Purchasing Manager of Adams County for approval and thereafter submit a certificate of insurance as herein above provided. Upon failure of the Contractor to furnish, deliver and maintain such insurance as provided herein, this contract, at the election of the County, may be immediately declared suspended, discontinued or terminated.
11. Contractor shall comply with the requirements of the Occupational Safety and Health Act (OSHA) and shall review and comply with the County's safety regulations while on any County property. Failure to comply with any applicable federal, state or local law, rule, or regulation shall give the County the right to terminate this agreement for cause.
12. COMPLIANCE WITH C.R.S. § 8-17.5-101, ET. SEQ. AS AMENDED 5/13/08: Pursuant to Colorado Revised Statute (C.R.S.), § 8-17.5-101, *et. seq.*, as amended 5/13/08, the Contractor shall meet the following requirements prior to signing this Agreement (public contract for service) and for the duration thereof:

- 12.1. The Contractor shall certify participation in the E-Verify Program (the electronic employment verification program that is authorized in 8 U.S.C. § 1324a and jointly administered by the United States Department of Homeland Security and the Social Security Administration, or its successor program) or the Department Program (the employment verification program established by the Colorado Department of Labor and Employment pursuant to C.R.S. § 8-17.5-102(5)) on the attached certification.
- 12.2. The Contractor shall not knowingly employ or contract with an illegal alien to perform work under this public contract for services.
- 12.3. The Contractor shall not enter into a contract with a subcontractor that fails to certify to the Contractor that the subcontractor shall not knowingly employ or contract with an illegal alien to perform work under this public contract for services.
- 12.4. At the time of signing this public contract for services, the Contractor has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this public contract for services through participation in either the E-Verify Program or the Department Program.
- 12.5. The Contractor shall not use either the E-Verify Program or the Department Program procedures to undertake pre-employment screening of job applicants while this public contract for services is being performed.
- 12.6. If Contractor obtains actual knowledge that a subcontractor performing work under this public contract for services knowingly employs or contracts with an illegal alien, the Contractor shall: notify the subcontractor and the County within three days that the Contractor has actual knowledge that the subcontractor is employing or contracting with an illegal alien; and terminate the subcontract with the subcontractor if within three days of receiving the notice required pursuant to the previous paragraph, the subcontractor does not stop employing or contracting with the illegal alien; except that the Contractor shall not terminate the contract with the subcontractor if during such three days the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with an illegal alien.
- 12.7. Contractor shall comply with any reasonable requests by the Department of Labor and Employment (the Department) made in the course of an investigation that the Department is undertaking pursuant to the authority established in C.R.S. § 8-17.5-102(5).
- 12.8. If Contractor violates this Section, of this Agreement, the County may terminate this Agreement for breach of contract. If the Agreement is so terminated, the Contractor shall be liable for actual and consequential damages to the County.

End General Information

SCOPE OF WORK

1. RFP Purpose:

1.1. Adams County Government is seeking a contractor to install two new underground fiber optic cables. The first will be from the Cherokee Tower to the new Adams County Human Services Center Building. The second will be from the new Human Services Center Building to the Adams County Western Service Center building. This project will consist of the installation of new 2" conduit using directional boring, as well as the use of existing conduits going from the street into each building.

2. Project Goals:

2.1. Installation of a new 96 strand fiber optic cable starting at the equipment building next to the Cherokee Tower, located at 11200 Cherokee St, Northglenn, CO 80234, and ending at the Adams County Human Services Center Building, located at 11860 N Pecos St, Westminster, CO 80234. This section will utilize existing 2" conduit going North from the Cherokee Tower equipment building to a pull box on Community Center Drive, and an existing 4" conduit going West from the Human Service Center building to the communications vault at the SE corner of the entrance driveway at Pecos St. All new conduits will be 2" HDPE conduit installed using directional boring. See map in Attachment 1 for details.

2.2. Installation of a new 96 strand fiber optic cable starting at the Adams County Human Services Center Building, located at 11860 N Pecos St, Westminster, CO 80234, and ending at the Adams County Western Service Center building, located at 12200 N Pecos St, Westminster, CO 80234. This section will also utilize the existing 4" conduit going West from the Human Service Center building to the communications vault at the SE corner of the entrance driveway at Pecos St., as well as an existing 4" conduit going South from the Western Service Center building to the existing hand-hole on the east side of the building driveway on 122nd Ave. All new conduits will be 2" HDPE conduit installed using directional boring. See map in Attachment 1 for details.

2.3. Human Services Center fiber terminations: The Human Services Center building is an active construction site, and will be for all of 2016. At the time the fiber is pulled into this location, the demarcation room will likely not be finished, and the fiber will need to be coiled inside the communications vault just outside of the conduit's entry point into the building. Once construction has progressed to the point that the fiber can be brought into the building, all 96 strands will be terminated inside the demarcation room on a rack mounted patch panel with SC connectors, using the existing rack. The contractor will

need to coordinate all activities at this location with the Saunders Construction (general contractor) and Adams County Information Technology.

- 2.4. Cherokee Tower fiber terminations: All 96 strands will be terminated inside the equipment building next to the tower, on a rack mounted patch panel with SC connectors, using the existing rack. The Cherokee Tower property is owned by Adams County Communications Center, Inc (ADCOM 911,) and all access to the property will need to be coordinated with them and Adams County Information Technology.
- 2.5. Western Service Center terminations: All 96 strands will be terminated in the 2nd floor data center room on a rack mounted patch panel with SC connectors, using an existing rack.
- 2.6. The goal for the project completion date is May 1st, 2016. However, if construction of the Human Services Center building's demarcation room has not been completed by this date, the fiber terminations at this location will need to be postponed until the room is completed.

3. **Mandatory Project Requirements:**

- 3.1. Contractor should use "armored" 96 strand fiber optic cable
- 3.2. Contractor will install 24" X 36" X 18" hand holes every 1000' along the run, and at any point where there is a bend that equals or exceeds 90 degrees
- 3.3. The new fiber optic conduit pathways must be appropriately marked with signage markers indicating "Adams County Government Fiber, phone number 720-523-6063"
- 3.4. Unless otherwise specified, the path of the cable will be at the discretion of the contractor
- 3.5. Contractor will be required to obtain all required permits
- 3.6. Contractor will be required to coordinate all activities at the Human Services Center Building with the general contractor for the construction site, Saunders Construction
- 3.7. All utility pull boxes and vaults must be traffic rated

4. **Project Deliverables:**

- 4.1. Contractor will provide as-built map of the conduit/fiber pathway, and all pull box locations in AutoCAD or ESRI format
- 4.2. Fiber optic cable must be tested for throughput, and results provided to Adams County before final payment is made

5. **Submission of Offers**

- 5.1. The vendor will provide with their proposal submission:
- 5.1.1 An Introductory letter defining the interest of the firm
 - 5.1.2 A detailed project plan, which must include the following:
 - 5.1.2.1 A planned project timeline
 - 5.1.3 Detailed maps detailing proposed fiber conduit routes
 - 5.1.4 A sealed envelope containing an itemized pricing list for all projects costs
 - 5.1.5 The total project cost must be an all-inclusive maximum price, including all direct and indirect costs
 - 5.1.6 Contractor must provide an estimated cost of all permits required for the project separated out from the rest of the price quotation (The estimated cost of permits will not be used as vendor selection criteria, only the total cost of the project minus the cost of the permits). This information can be included with the proposal and does not need to be sealed.
 - 5.1.7 The submission must include product specification sheets for all proposed hardware components.
 - 5.1.8 The vendor should include primary contact information for an authorized vendor representative, with whom Adams County can communicate regarding the proposal.

5.2. Optional Information

- 5.2.1. Adams County will not be responsible for expenses incurred in preparing and submitting the proposal.
- 5.2.2. Such costs should not be included in the proposal. Should it become necessary for Adams County to request the vendor to render any additional services to either supplement the services requested in this RFP, or to perform additional work as a result of the specific recommendations included with this engagement, then such additional work shall be performed only if set forth in an addendum to the contract between Adams County and the vendor.
- 5.2.3. Optional submission information: The vendor may submit any other information that they feel is relevant or necessary for Adams County to evaluate their proposal. This could include documentation such as references, qualifications, or company information. This information may be considered by Adams County's evaluation team.

6. **Method of Award:**

Adams County will award the contract to the vendor who receives the highest score when the submitted vendor responses are reviewed by Adams County's evaluation team. The vendor responses will be rated based upon the following criteria:

- Vendor experience/suitability

- References
- Quality of proposal
- Cost of proposal

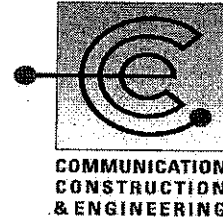
7. Competency of Vendors:

The vendors must be able to produce evidence that they have an established satisfactory record of performance for a reasonable period of time and have sufficient financial support, equipment and organization to ensure that they can satisfactorily execute the services if awarded a contract. The term "equipment and organization" as used herein shall be construed to mean a fully equipped and well established company in line with the best business practices in the industry and as determined by the proper authorities of Adams County. Adams County reserves the right, before awarding the contract, to require a vendor to submit such evidence of its qualifications as it may deem necessary, and may consider any evidence available to it (including, but not limited to, the financial, technical and other qualifications and abilities of the vendor, including past performance and experience with Adams County) in making the award in the best interests of Adams County.

8. Completion of Work from the Date of Purchase Order

The vendor shall state in its response the number of calendar days from the date of the Purchase Order issued by Adams County in which it will guarantee to complete the work, repair, and/or service. **Time for completion may be considered a factor in determining the successful vendor. The completion date shall not exceed one hundred and twenty (120) calendar days** after the date of the Purchase Order. All work shall be performed in accordance with good commercial practice and the work schedule and completion dates shall be adhered to by the successful vendor(s), except in such cases where the completion date will be delayed due to acts of God, strikes, or other causes beyond the control of the vendor. In these cases, the vendor shall notify Adams County of the delays in advance of the original completion date so that a revised completion date can be negotiated. Should the vendor(s) to whom the contract(s) is awarded fail to complete the work within the number of days as stated in its response, it is hereby agreed and understood that Adams County reserves the right to cancel the contract with the vendor and to secure the services of another vendor to complete the work. If Adams County exercises this right, Adams County shall be responsible for reimbursing the vendor for work which was completed and found acceptable to Adams County in accordance with the specifications. In addition, Adams County may, at its sole discretion, request payment from the vendor, through an invoice or credit memo, for any additional costs over and beyond the original response price which were incurred by Adams County as a result of having to secure the services of another vendor.

End of Scope of Work



Communication Construction & Engineering, Inc

2091 E. 74th Ave Unit I
Denver, CO 80229
303-906-5156
Russm@communicationconstruction.com

November 23, 2015

Adams County RFP 2015.136
Fiber Optic Installation for the Adams County Human Services Building

Dear Adams County,

CCE is submitting a proposal to install the new 96 strand fiber from Cherokee Tower to the new Human Services building on Pecos St. & 120th and from there to the Western Services building on 123rd & Pecos St.

We have been doing business with Adams County in the past and would like the opportunity to continue our relationship to perform this work. We have completed numerous projects for Adcom 911, City of Brighton, Adams County, etc. and our company has all the skills to complete this in the time frame allowed. We have provided our references in this bid packet.

Any questions or concerns about this estimate, you can call Norm Thielbert 720-450-7952. He would be the Project Manager on this.

Thank you, Sincerely,

Russell Moore

President-Communication Construction & Engineering
303-906-5156

Adams County fiber project RFP 2015.136
Communication Construction & Engineering Tentative Schedule

This is rough estimation of what areas of the project we will be working on. There is always a possibility that we will have delays due to City permit reviews, weather, equipment breakdowns, locate issues, or access problems. We will do our best to minimize those things that are in our control. Engineering time may be less, depending on cities.

WEEK #1-#3

Work on Engineering Drawings and Submittals

WEEK #4

Work on potholing utilities starting on 112th Ave & Cherokee Tower

WEEK #5

Continuing potholing utilities-112th Ave.& Pecos St.

WEEK #6

Start Directional Boring & Potholing along 112th Ave.& Pecos St.

WEEK #7

Continue potholing utilities-Pecos St. & Directional Boring 112th Ave.

WEEK #8

Continue Pothole utilities Pecos St. & Directional Bore Pecos St.

WEEK #9

Continue Potholing Utilities,Directional Boring on Pecos St.

WEEK #10

Continue Directional Boring Pecos St. crossing 120th Ave

WEEK #11

Continue Potholing & Directional Boring-Pecos st. & 123rd Ave

WEEK #12

Place 96 strand fiber down 112th Ave from Cherokee Tower

WEEK #13

Finish 96 strand fiber down Pecos St. to end point at HSC & Continue to Western Svcs

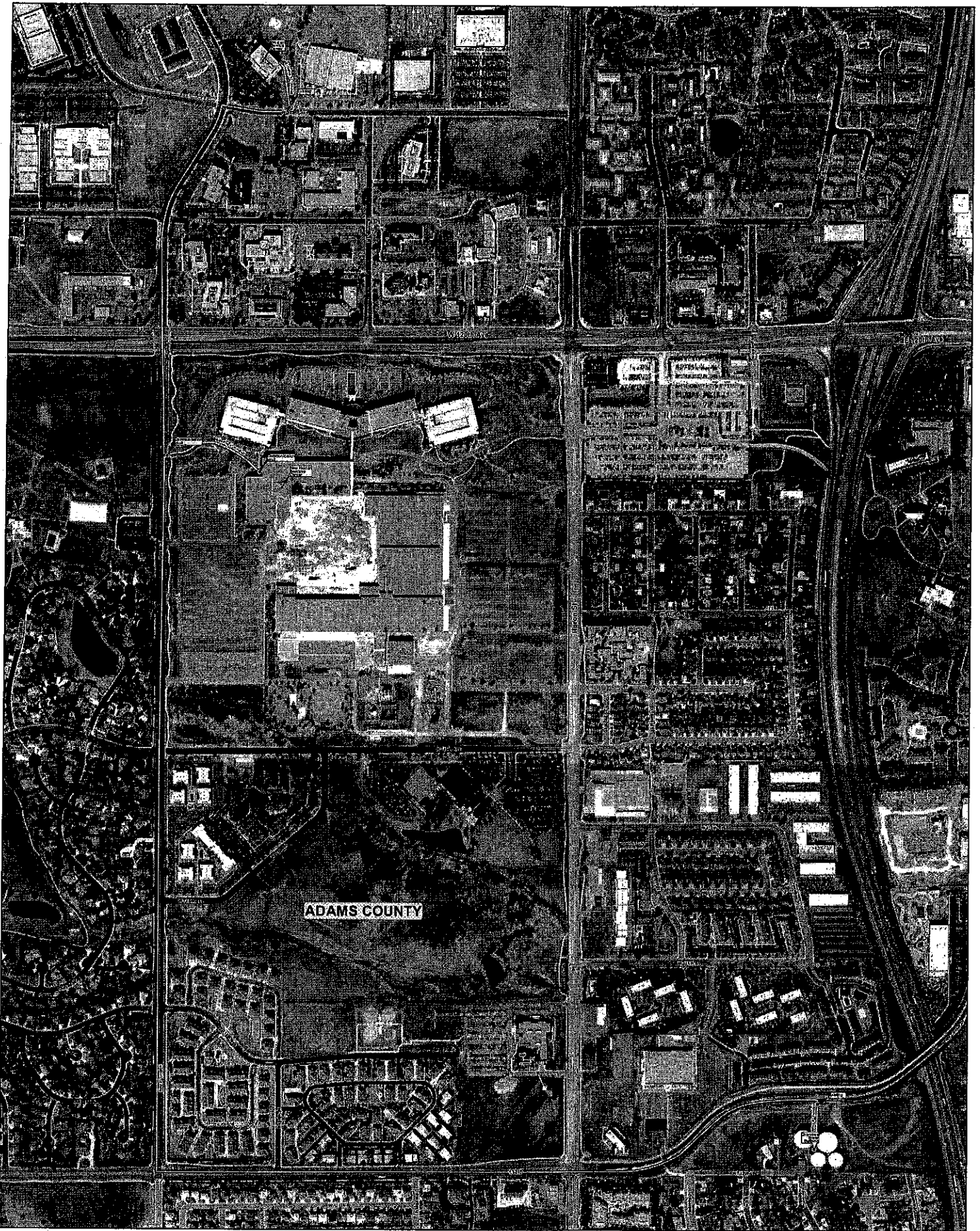
WEEK #14

Splice, terminate and test 96 Strand on both ends

WEEK #15

Final walk through, clean up of any areas, sign off.

return at a later date, TBD, to pull fiber into HSC terminate and test.



KEY

- Network Locations
- Network Conduit
 - New Two Inch Conduit
 - Existing Two Inch Conduit
 - Existing Four Inch Conduit

Human Services Center Fiberline Project

ADAMS COUNTY

Scale: 0 100 200 Feet

ADAMS COUNTY ENGINEERING & SURVEYING
1000 W. 10TH AVE., SUITE 100
DENVER, CO 80202
TEL: 303.733.1100
WWW.ACEADAMS.COM

Communication Construction & Engineering, Inc.

Past Clients:

9 News:

Installation, termination and testing of Category 5e, 6 and multi-mode fiber optic cabling throughout the news-room. This installation was performed in a occupied office environment without disruptions to normal business operations. The duration of this project was approximately 3 months.

KB Home:

Service contract performing repairs on underground communication infrastructure, water line and drainage.

Keebler Foods

Installation, termination and testing of Category 3 and 5e voice-data cabling. This installation was performed in a new warehouse environment with aggressive project timelines. The total duration of this project was approximately 2 months.

Colorado School of Mines

Excavation and placement of a new conduit system to support communication facilities for a new dormitory campus environment. This installation consisted of over 20,000 feet of new conduit and multiple man-hole vault locations. The conduit system was installed in both favorable soil conditions and in a rock soil environment.

Grand County Library District

Installation, termination and testing of category 3 and 5e voice-data cabling in several locations throughout the library district. In several locations the installation occurred in historic buildings where aesthetics were of the utmost importance.

City of Glenwood Springs

Replacement and live cut-over of an existing long-haul single-mode fiber optic backbone system. This project consisted of installation of new backbone cabling through a underground conduit system and a live cut-over of over 500 single-mode fusion splices.

E-470/NW Parkway

Installation of underground innerduct and conduits and communication vaults by means of open trenching, directional boring and excavation. CCE also placed fiber optic cable, performed fusion splices and direct fiber terminations. This project involved several unique challenges including conduit installation at a depth of over 20 feet.

Comcast

Layout of server cabinets, installation of server cabinets, racking of servers and connection of Ethernet and power to the servers.

Colorado Natural Gas

Trenching, directional boring and excavation of new gas line service to existing residences in the Conifer area. CCE performed fusion connections to both new and existing gas main line.

AT&T

Excavation and exposure of existing live long haul fiber cable to cover the cable with split steel conduit and a concrete casing.

Denver Public Schools

Trenching and directional boring and placement of innerduct and fiber cable to connect several schools within the school district.

Denver International Airport

Placement of high-pair-count copper cable in an existing duct bank.

Teledyne Monitor Labs

Installation of cat 3 and cat 6 cable to approximately 300 locations throughout the building to include a warehouse with high ceilings. We also placed fiber-optic cable between the communication closets.

HDR Engineering

Installation of cat 5e and cat 6 cable to approximately 250 workstation locations.

Adams County Colorado

Installation of several miles of underground fiber optic network by means of trenching, excavation, and horizontal directional boring. CCE placed conduit, installed fiber optic cable, fusion spliced and tested this fiber optic network between several of the county's buildings. CCE has also maintained the county's fiber infrastructure after construction.

Cogent Communications

Construction of both fiber backbone and lateral runs in downtown Denver and the Tech center. This included ROW engineering, permitting and construction of conduit and fiber optic networks. CCE also has installed and maintained building riser fiber optic cable to serve individual tenants for Cogent.

Adams County Communication Center Inc. (Adcom)

Construction of several miles of new fiber optic network infrastructure. CCE provided a turn-key installation which included ROW engineering, permitting, horizontal boring, fiber placement, fusion splicing, termination and OTDR testing.

IBM

Construction of campus building interconnect conduit. Installation of EMT conduit in the ceiling plenum between building entrance and the data centers and horizontal directional boring and placement of underground conduit between buildings.

City of Brighton

Construction of a complete private fiber optic infrastructure connecting city buildings, traffic signals and security cameras. The scope included ROW engineering, horizontal directional drilling to place conduit in the public utility easement, pulling of 96-strand fiber, fusion splicing, termination and OTDR testing of the new fiber and existing laterals.

Colorado Christian University

This project included designing a new fiber/copper private campus network, horizontal drilling to place new conduit, installation, splicing, termination and testing of both copper and fiber cabling.

RFP 2015.136 FIBER OPTIC INSTALLATION FOR HUMAN SERVICES CENTER

The purpose of this addendum is to answer any submitted questions for this RFP.

1. Are the existing building-street conduits empty?
 - Cherokee: No. The Cherokee conduit has one existing 96 strand armored cable.
 - HSC: Yes.
 - WSC: No, there is an existing CenturyLink feed cable, but there is sufficient room for adding a 96 strand armored cable.
2. Is there Jet Line in the existing conduits?
 - No.
3. What is the length of the conduit going from the pull box on the street to the buildings?
 - Cherokee Tower: Approximately 290'
 - Human Service Center: Approximately 670'
 - Western Service Center: Approximately 300'
4. Adams County is asking for one pair of fiber to be connected between Cherokee and Western Service Center before the fiber is terminated at the Human Services Center. Can this be spliced together in the vault at Human Services Center?
 - Yes.
5. Use schedule 80 or Schedule 40 for the conduit?
 - Schedule 40.
6. What is the lid rating on the pull box lids? Tier 15? Tier 20?
 - Tier 15.
7. Has Adams County created engineered drawings, or secured right-of-way permissions from the appropriate municipalities for this project?
 - No. The winning contractor will be required to create the necessary engineered drawings for this project, and submit them to the City of Westminster (or any other municipalities as necessary,) and also to apply for, and secure all necessary permits, including right-of-way permits.
8. Do you want single mode fiber?
 - Yes.
9. What brand of fiber is required?
 - Corning (glass).
10. What are the dB loss requirements for fiber testing?
 - Contractor must conform to EIA/TIA 568 standards for dB loss for the entire run, including connectors. Per the statement of work, test results will be provided to Adams County upon completion.
11. Are there any service loops?
 - Yes, 50 foot service loops should be placed inside every pull box.
12. Is there existing conduit on the second floor of the Western Service Center?
 - For the purposes of this RFP, assume that there is a conduit path, but see #13.
13. Is plenum-rated cable required for inside the buildings?
 - For both the Cherokee equipment building and the HSC Building, assume that there will be interior conduit going all the way to the demarcation room, and that plenum cable will not be necessary. For the WSC building only, please provide

two pricing options: 1. Using 200 ft of plenum cable spliced into the armored cable, and 2. Using armored cable all the way into the 2nd floor demarcation room.

14. Provide estimated cable length footages for the inside of the buildings.
 - Cherokee: Approximately 30 ft
 - HSC: Approximately 50 ft
 - WSC: Approximately 200 ft
15. Who will take responsibility for cable once it's installed at the HSC construction site until it's completed?
 - Adams County and the general contractor of the construction site will take full responsibility for the cable during construction once it has been coiled and placed inside the vault at HSC.
16. Clarify Davis Bacon/ prevailing wages.
 - This is a County project and will be paid for by County funds. Since this is not a Federal project Davis Bacon is part of the requirements for this project.
17. Clarify Bonding language: The bonding language is still under review and will be released in a second addendum on Monday November, 16 2015.
18. Verify if tax exempt under the City of Westminster.
 - Yes, Adams County is a tax exempt organization. If the contractor is concerned that local sales taxes will need to be paid for materials, please include pricing both with tax and without tax. Adams County will make its best effort to ensure that it will not have to pay any sales tax.
19. What are the signage requirements?
 - Marking posts should be placed next to every pull box with the following verbiage: "Adams County Government Fiber – phone number 720-523-6063"
20. What are the minimum/maximum depth requirements for the underground boring?
 - 2 ft minimum, 4 ft maximum

End of Scope of Work

RFP 2015.136 FIBER OPTIC INSTALLATION FOR HUMAN SERVICES CENTER
ADDENDUM 2

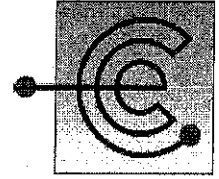
The purpose of this addendum is to clarify the bonding language for this project.

- A Performance Bond and Surety Bond, each in a penal sum equal to the nearest integral One Hundred Dollars in excess of the estimated Contract Price with corporate surety approved by the County, will be requested for faithful performance of the Contract.
- The Agreement shall be signed by the successful bidder and returned together with the Performance Bond and Surety Bond within ten (10) days after the date of the award

End of Addendum 2

Communication Construction & Engineering, Inc.

2091 E 74th Ave, Unit I
Denver, CO 80229
(303)906-5156
RussM@CommunicationConstruction.com



ESTIMATE

ADDRESS

Adams County
4430 South Adams County Parkway
Brighton, CO 80601

ESTIMATE # 2606
DATE 11.23.2015

ACTIVITY	QTY	RATE	AMOUNT
Pricing for the following work from the Cherokee Tower location at 112th & I-25 to the Avaya Building at Pecos St & 120th Ave, then across 120th Ave to Western Services building on 123rd Ave & Pecos St. We will provide engineered drawings & ROW permits to Directional bore a 2"HDPE schedule 40 conduit with a 96ct SMF. There will be 50' slack loops in each 24"x36"x18" tier 15 handholes. There is an existing pathway from a handhole next to the street at the Cherokee Tower and We will use the existing building entrance at the Avaya Building out to a handhole along Pecos St. and an existing pathway at the Western Svcs building. Pricing Includes terminations into existing racks at Cherokee Tower & Western Svcs. At Avaya we will have to wait until the room is available to terminate, but we will have two strands active from Cherokee Tower to Western Svcs. We will OTDR test all the strands and provide test results.			
Right of way engineering.			
Obtain bond for municipality.			
Right of way permit.(Northglenn & Westminster)			
Traffic control.			
Pothole existing underground utilities (day rate).			
Directional bore and place a 2" conduit.			
2" HDPE Conduit			
Intercept existing vault/handhole/ped.			
Provide and place mule tape in conduit.			
Provide and install 24" X 36" X 18" Handhole.			
Labor & Materials to install Fiber Markers			
Excavate conduit and splice.			
Materials to flash fill potholes in the street crossings			
Remove and replace asphalt/concrete (sq/ft).			
Landscape restoration (square feet).			
Place fiber cable in conduit.			
Provide 96ct SMF Material			
<u>Cherokee Tower Terminations & Testing</u>			
Provide and install 4-module fiber shelf.			

ACTIVITY

QTY

RATE

AMOUNT

Provide 12-strand fiber termination module, labor to splice pigtail and place in fiber enclosure..

OTDR test each strand of fiber in both directions and provide test results.

Avaya/Human Services Terminations & Testing-pull into building at a later date.

Place fiber cable in conduit.

Provide and install 4-module fiber shelf.

Provide 12-strand fiber termination module, labor to splice pigtail and place in fiber enclosure..

OTDR test each strand of fiber in both directions and provide test results.

Western Services- pulling into bldg. w/Terminations. Butt splice & Testing

Provide and Place plenum fiber cable to 2nd floor.

Provide and install fiber splice case, splice tray and prep cables.

Fusion splice each strand of fiber.

Provide and install 4-module fiber shelf.

Provide and install 12-strand fiber termination module.

OTDR test each strand of fiber in both directions and provide test results.

Assumptions:

Bore/Trench pricing is based on favorable soil conditions. If we encounter sandy or rocky soil or buried debris there will be additional charges.

All work will be done during normal business hours.

This bid includes estimated permit fees, traffic control, & bonds based on the two municipalities we will be working in.

Others will perform private facility locates, we are not responsible for damage to un-located private facilities.

If we will be using an existing conduit, there will be additional charges for damaged, crushed or contaminated conduit.

If we have to pothole existing utilities, we will patch the hole with cold patch. If the city/county requires full panel replacement, it will be an additional charge.

Wildlife, environmental or stormwater impact studies are not included in this quote.

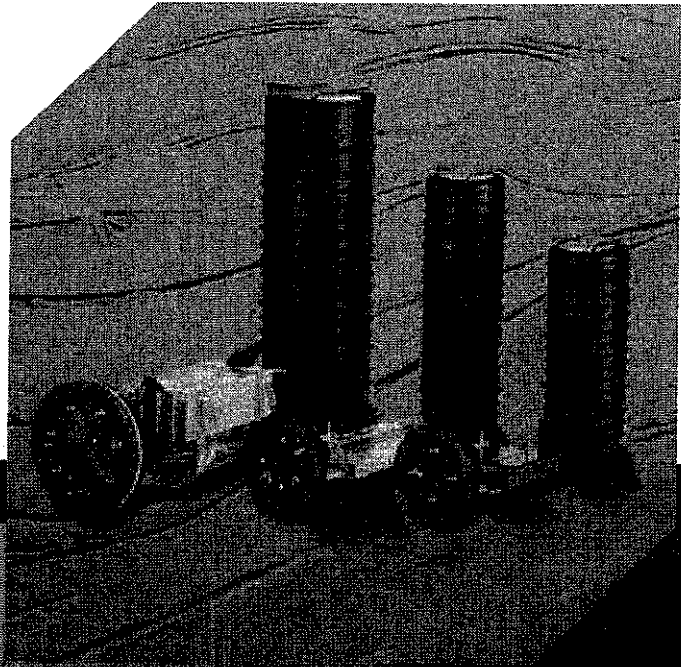
TOTAL

Accepted By

Accepted Date

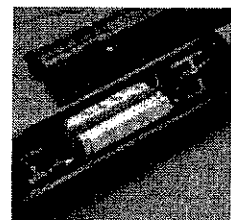
EPPI PREFORMED LINE PRODUCTS
The connection you can count on.

The same breed in a
whole new package
COYOTE® DOME CLOSURES



● COMMUNICATIONS ● ENERGY ● SPECIAL INDUSTRIES ● SOLAR

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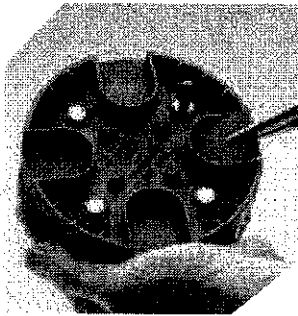
Evolution of the Breed Continues

PLP Feature Focus

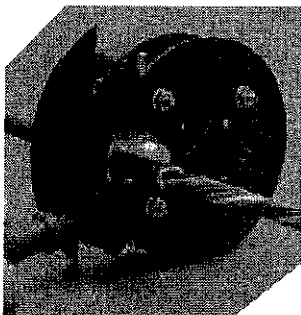
2009 Preformed Line Products

Film available at
www.preformed.com

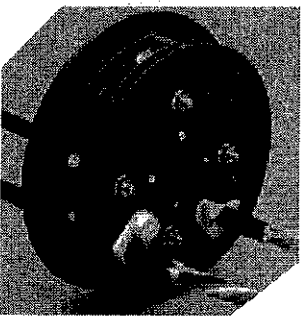
Segmented End Plate Design



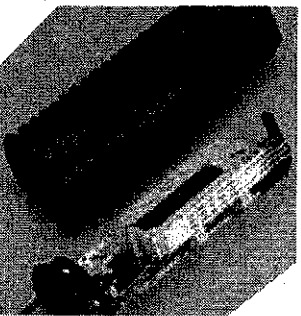
Break cable port tab(s) off the center end plate section



Install first of the segmented end plates caps over cable



Install remaining cables and end plates caps



6.5" x 22" for Buffer Tube

The COYOTE Dome Closure Family has increased in size! The new 9.5" x 28" High Capacity Dome Closure is available in three different configurations and can also be used with 9.5" Armadillo Stainless shells, further expanding the possibilities to address your network needs. The innovative, segmented end plate design in the new 9.5" diameter offers 7 cable entrance ports capable of accepting cables with a maximum diameter of 1.25" (32 mm). The unique design allows each cable entrance to be accessed without disruption to the surrounding cables. The new end plate accepts the full line of multi-hole grommets designed to ensure the ultimate flexibility and high capacity to meet the demands of ever evolving communication networks.

The COYOTE Dome Closure was built from the ground up using the same craft-friendly fiber management technology that placed the COYOTE family among the most respected and reliable in the industry. Re-entry is quick and requires no special tools or re-entry kits. Both the 6.5" and 9.5" designs are also convertible to closure shells for in-line applications or to provide additional drop capacity. For connectivity solutions, the COYOTE Dome closures are also available in cross-connect configurations. By combining these features with a wide offering of splice trays and accessories, PLP has the ability to address virtually any network design.

The COYOTE Dome Closure is tested in accordance with the demanding requirements of the Telcordia GR-771-CORE specification for all aerial, buried and underground environments. Manufactured in accordance with ISO9001:2000 procedures to assure quality and backed by the experience and field support that PLP has been noted for since 1947.

Key Features

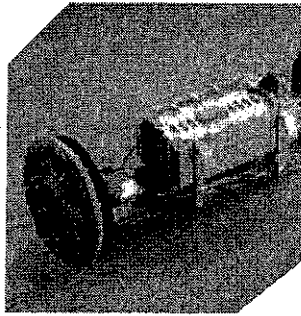
- Available Sizes: 6.5" x 17" (17cm x 43cm), 6.5" x 22" (17cm x 56cm), 6.5" x 28" (17cm x 71cm), 9.5" x 28" (24cm x 71cm)
- Patented segmented End Plate design provides independent access to every cable
- 6.5" End Plate: 4 entry ports accepting max cable diameter of 1¼" (32mm)
- 9.5" End Plate: 7 entry ports accepting max cable diameter of 1¼" (32mm)
- Fiber Organizers and End Plates come fully assembled – minimizing the parts to handle
- Simple to use multi hole and single hole grommets provide the ability to support high drop capacities
- No special tools or torque wrenches required for installation
- Collar system allows for quick re-entry
- Tested in accordance to Telcordia GR-771 CORE
- RDUP listed (RUS) for all applications. Contact PLP for further details
- Accepts a wide variety of PLP splice trays
- Patented End Plate Design

COYOTE Dome Closure Kits

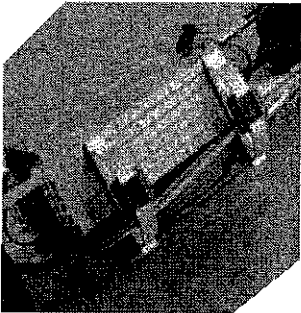
Part Number	Description
8006944	6.5" x 17" COYOTE Dome for Buffer Tube (Loose Tube)
8006945	6.5" x 17" COYOTE Dome for Unitube (Ribbon)
800012587	6.5" x 17" COYOTE Dome for Unitube (Ribbon) – Expanded Storage
8006988	6.5" x 17" COYOTE Dome Express
800012185	6.5" x 17" COYOTE Dome Cross-Connect (Empty)
8006877	6.5" x 22" COYOTE Dome for Buffer Tube (Loose Tube)
800012606	6.5" x 22" COYOTE Dome for Copper
8006878	6.5" x 22" COYOTE Dome for Unitube (Ribbon)
800012441	6.5" x 22" COYOTE Dome for Unitube (Ribbon) – Expanded Storage
8006946	6.5" x 22" COYOTE Dome Express
800012184	6.5" x 22" COYOTE Dome Cross-Connect (Empty)
8006879	6.5" x 28" COYOTE Inline Dome for Buffer Tube (Loose Tube)
8006880	6.5" x 28" COYOTE Inline Dome for Unitube (Ribbon)
All 6.5" Domes include: (2) 8003701 grommets, internal fiber organizer, cable restraint hardware and (4) hose clamps.	
80061055	9.5" x 28" COYOTE Dome for Buffer Tube (Loose Tube)
80061056	9.5" x 28" COYOTE Dome for Unitube (Ribbon)
80061057	9.5" x 28" COYOTE Dome for High Capacity (Max Tray Count)

All 9.5" Domes include: (2) 8003692 grommets, (2) 8003693 grommets, internal fiber organizer, cable restraint hardware to support (4) cables, and 4 hose clamps. Kits to support ribbon also include transport tubing.

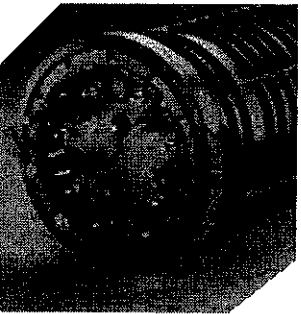
PLP Fiber Optic Products
THE COYOTE® DOME CLOSURE
 Evolution of the Breed Continues



9.5" Dome with Buffer Tube Organizer



9.5" Dome with Transition Tray (Ribbon)



9.5" Dome

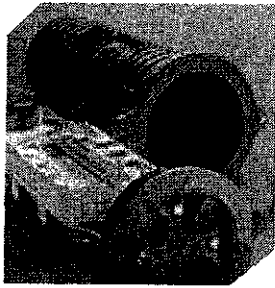


9.5" Dome Side Storage Bracket

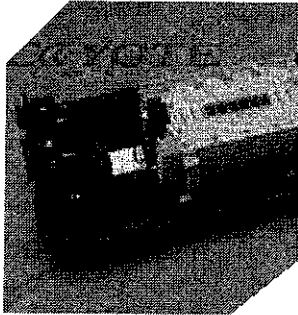
Short Splice Trays for the 17" Dome	6.5" x 17" COYOTE Dome	Long Splice Trays for 22" 28" Dome and In-Line Closures	6.5" x 22" COYOTE Dome	9.5" x 28" COYOTE Dome	6.5" x 28" COYOTE In-Line Dome	9.5" x 28" COYOTE In-Line Dome
	6 Trays 72 Max Splice Count		6 Trays 216 Max Splice Count	PN: 80061055 13 Trays 468 Max	6 Trays 216 Max Splice Count	18 Trays 648 Max Splice Count
Low Profile Tray (12 splice count) Cat. #80807701 (w/splice blocks) or #8001130 (blank)		Low Profile Tray (36 splice count) Cat #8001127 (w/plastic splice blocks) or 80807531 (blank)		PN: 80061056 14 Trays 504 Max		
	4 Trays 48 Max Splice Count		4 Trays 144 Max Splice Count	PN: 80061055 10 Trays 360 Max	4 Trays 144 Max Splice Count	15 Trays 540 Max Splice Count
Standard Tray (12 splice count) Cat #80806033 (w/splice block) or 80806182 (blank)		Standard Tray (36 splice count) Cat #80805514 (w/elastomer splice block), 80805110 (w/ rigid slots), or 80805509 (blank)		PN: 80061056 12 Trays 432 Max		
	3 Trays 216 Max Splice Count		3 Trays 432 Max Splice Count	PN: 80061055 7 Trays 1,008 Max	3 Trays 432 Max Splice Count	6 Trays 864 Max Splice Count
Ribbon Tray (72 splice count) Cat # 80807114 (w/splice block) or 80808160 (blank)		Ribbon Tray (144 splice count) Cat # 80805515 (w/elastomer splice blocks), 80805146 (w/ rigid slots), or 80805510 (blank)		PN: 80061056 8 Trays 1,152 Max		
	3 Tray 120 Max Splice Count ¹		3 Trays 240 Max Splice Count ²	PN: 80061055 7 Trays 560 Max ²	3 Trays 240 Max Splice Count ²	9 Trays 720 Max Splice Count ²
LITE-GRIP® Short Tray ¹ (40 splice count) Cat #LGSTS16 (single fusion)		LITE-GRIP Long Tray ² (80 splice count) Cat #LGSTS40 (single fusion)		PN: 80061056 8 Trays 640 Max ²		
	3 Tray 432 Max Splice Count		3 Trays 648 Max Splice Count	PN: 80061057 10 Trays 800 Max ²	3 Trays 648 Max Splice Count	6 Trays 1,296 Max Splice Count
LITE-GRIP Short Tray (144 splice count) Cat # LGSTR144 (mass fusion ribbon)		LITE-GRIP Long Tray (216 splice count) Cat #LGSTR216 (mass fusion ribbon)		PN: 80061055 7 Trays 1,512 Max		
				PN: 80061056 8 Trays 1,728 Max		
				PN: 80061057 10 Trays 2,160 Max		

¹ Each tray (Cat #LGSTS16) is provided with splice blocks to support 16 single fusion splices. Splice Block Kit (Cat #LGSBS 8-5) is required for each tray to achieve maximum splice count.

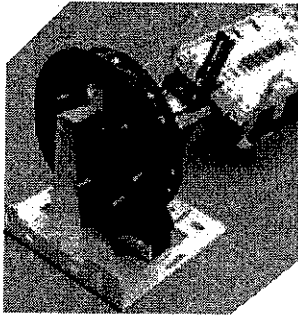
² Each tray (Cat. #LGSTS40) is provided with splice blocks to support 40 single fusion splices. Splice Block Kit (Cat #LGSBS8-5) is required for each tray to achieve maximum splice count.



9.5" Dome



Inline application in Armadillo Shells



End Plate Assembly Fixture for 9.5" and 6.5"

COYOTE Silicone Grommet Kits			
PLP Catalog Number	Cable Range Inches (mm)	Description	Grommets
*8003701	.42 - .60 (10.7 - 15.2) .60 - .85 (15.2 - 21.6)	2-hole grommet	
8003691	.40 - .60 (10.7 - 15.2)	1-hole grommet	
8003692	.60 - .85 (15.2 - 21.6)	1-hole grommet	
8003693	.85 - 1.0 (21.6 - 25.4)	1-hole grommet	
8003694	1.0 - 1.25 (25.4 - 31.6)	1-hole grommet	
8003663	.42 - .60 (10.7 - 15.2)	2-hole grommet	
8003664	.30 - .43 (7.6 - 10.9)	4-hole grommet	
8003665	.125 - .25 (3.2 - 6.4) and Flat Drop	6-hole grommet	
8003676	.42 - .60 (10.7 - 15.2) .125 - .25 (3.2 - 6.4) and Flat Drop	7-hole grommet	
8003677	.125 - .25 (3.3 - 6.4) and Flat Drop	8-hole grommet	
8003796	Flat Drop Only	12-hole grommet	

Note: Grommet Kit contains (1) Grommet, (1) Cable Measure Tape, (2) Silicone Lubricant Packs, (1) Set of Plugs and (1) Glove. *8003701 is not recommended for the 9.5" Dome Closure.

Mounting Hardware And Accessory Kits

Part Number	Description
8003681	End Plate Kit - 6.5" Dome
8003839	End Plate Kit - 9.5" Dome
80807383	Hardware Bag for End Plate
80808651	Extended Strength Member Bracket Kit
80808878	Large Strength Member Adapter Kit
80807848	End Plate Gasket - 6.5" Dome
80808426	End Plate Gasket - 9.5" Dome
80808456	End Plate Assembly Fixture - 6.5" or 9.5" Domes
8003702	Pole / Wall Mount Bracket - 6.5" Dome
8003831	Aerial Hanger Bracket - Dome Mount (Strand Mount) - 6.5" Dome
8003707	Swing Arm for Hand Holes - 6.5" Dome
8003835	Universal Mounting Bracket Kit for Hand Holes - 6.5" Dome
8003942	Pole / Wall Mount Bracket - 9.5" Dome
8003941	Aerial Hanger Bracket - End Plate Mount - 9.5" Dome
8003940	Aerial Hanger Bracket - Dome Mount - 9.5" Dome

Maximum splice capacities are calculated by multiplying the maximum tray quantity per closure by the maximum splice capacity per splice tray. Achieving the maximum splice capacity for each closure may require adjustments to the volume of fiber stored within the fiber organizers. Contact a PLP representative to discuss the details of achieving the maximum capacities for your installation.



PREFORMED
LINE PRODUCTS

World Headquarters
660 Beta Drive
Cleveland, Ohio 44143

Mailing Address:
P.O. Box 91129
Cleveland, Ohio 44101

Telephone: 440.461.5200
Fax: 440.442.8816
Web Site: www.preformed.com
E-mail: inquiries@preformed.com

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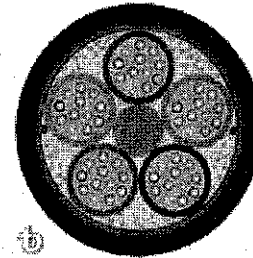


DRC-F-TTxNN-D-ZRP-D BK

Part Number: FxNNNTT••B

Applications: Blown Installation, CATV and DataCom, Direct Burial Campus Backbone, General purpose armored Outdoor, Long Distance OSP, Outdoor Plant Duct Installation, Rugged environments

General Construction: The gel free cable contains up to 432 color-coded optical fibers in up to 36 color-coded loose tubes, each tube containing up to 12 fibers. The tubes include a swellable yarn to prevent the ingress of water and SZ stranded around a dielectric central strength member. Fillers are used as needed to preserve cable geometry. A corrugated steel armor is longitudinally applied over the swellable fiber-glass strength yarns which reinforce the cable core. The outer jacket extruded over the armoring completes the cable structure.



Design & Materials

Buffer Material:	Polypropylene
Tube Diameter:	2.5 mm nom.
Conductor Color Code:	Fiber Color Code
Central Strength Member:	FRP
Cabling:	SZ
Strength Elements:	E-Glass Yarns
Armor:	Yes
Armoring:	Corrugated Steel
Armor Thickness (µm):	150 µm
Total Number of Tubes:	Up to 36
Number of fibers:	Up to 432
Waterblocking:	Dry Waterblocking
Rip-Cord:	Yes
Outer Jacket Color:	Black
Marking:	Per request

Teldor Cables & Systems Ltd. ("Teldor") reserves the right to make changes to the products described in this catalog without prior notice. Teldor does not assume any liability which may occur due to the use of the products described herein. The information contained in this catalog is the proprietary property of Teldor, and may not be used, reproduced or disclosed to others, in whole or in part, without the written authorization of Teldor.

Standards

Applicable Standards:	IEC 60794, ISO/IEC 11801, TIA/EIA-568, ASTM G154, RoHS-2 2011/65/EU
Installation:	Guidelines as per IEC 60794-1-1 Annex A

Performance

Max. Tensile Strength - Short Term:	2700 or the equivalent of the cable weight per km, whichever is higher N
Max. Tensile Strength - Long Term:	60% of Max. Tensile Strength - Short Term N
Impact Resistance:	4.4 N•m
Impact Resistance:	3 cycles
Max. Crush Resistance:	500 N/cm
Min. Bend Radius for Installation:	20xD mm
Min. Bend Radius for Operation:	20xD mm
Repeated Bending:	25 cycles
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-40 °C
Max. Storage Temperature:	+70 °C
Min. Storage Temperature:	-40 °C
UV resistance:	Yes
Waterblocking:	Yes

Alternatives:

P/n	Product Description	No. of Fibers	Cable Diameter (mm)	Weight (kg/km)
F90040191B	DRC-9-01X04-D-ZRP-D BK	4	12.2	147
F900601A4B	DRC-9-01X06-D-ZRP-D BK	6	12.2	147
F90080167B	DRC-9-01X08-D-ZRP-D BK	8	12.2	147
F90120276B	DRC-9-02X06-D-ZRP-D BK	12	12.2	147
F901201J9B	DRC-9-01X12-D-ZRP-D BK	12	12.2	145
F90180310B	DRC-9-03X06-D-ZRP-D BK	18	12.2	145
F902404D1B	DRC-9-04X06-D-ZRP-D BK	24	12.2	146
F902402F1B	DRC-9-02X12-D-ZRP-D BK	24	12.2	145
F90360366B	DRC-9-03X12-D-ZRP-D BK	36	12.2	145
F904804M6B	DRC-9-04X12-D-ZRP-D BK	48	12.2	145
F90600524B	DRC-9-05X12-D-ZRP-D BK	60	12.2	145
F50120164B	DRC-5-01X12-D-ZRP-D BK	12	12.2	145
F907206C0B	DRC-9-06X12-D-ZRP-D BK	72	12.5	155
F90840709B	DRC-9-07X12-D-ZRP-D BK	84	13.2	165
F909608E7B	DRC-9-08X12-D-ZRP-D BK	96	14.5	192
F91201012B	DRC-9-10X12-D-RP-D BK	120	15.7	223
F91321100B	DRC-9-11X12-D-RP-D BK	132	16.6	241
F914412A4B	DRC-9-12X12-D-RP-D BK	144	17.6	268
F91801501B	DRC-9-15X12-D-ZRP-D BK	180	17.2	240
F91921638B	DRC-9-16X12-D-ZRP-D BK	192	17.2	240
F92041701B	DRC-9-17X12-D-ZRP-D BK	204	17.5	255
F92161811B	DRC-9-18X12-D-ZRP-D BK	216	17.5	255
F92281901B	DRC-9-19X12-D-ZRP-D BK	228	18.5	275
F92402005B	DRC-9-20X12-D-RP-D BK	240	18.5	275
F92882447B	DRC-9-24X12-D-RP-D BK	288	20.1	318
F93603003B	DRC-9-30X12-D-ZRP-D BK	360	22.4	389
F94323609B	DRC-9-36X12-D-ZRP-D BK	432	22.4	353

For additional fiber counts, please contact the Teldor Sales Department.

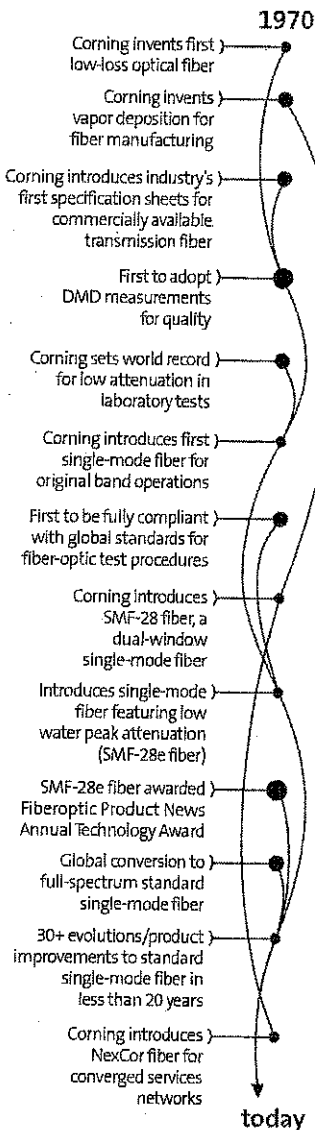
Prepared By	Revised By	Version Num	Modified on
Olga Kirshner	Zuri Balal	1.24	01-05-2013

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Corning® SMF-28e+™ Optical Fiber with NexCor® Technology Product Information

CORNING

Optical
Fiber



Trusted Performance Today and in the Future

Corning Optical Fiber continues to push single-mode fiber to new levels and evolve its standard single-mode optical fiber offering by adding the performance advantage of NexCor® technology to the trusted SMF-28e® optical fiber. The result is Corning® SMF-28e+™ optical fiber, a full spectrum single-mode fiber that is fully backward compatible with legacy single-mode fibers and is the latest in a long line of fiber optic innovations from Corning.

Corning® SMF-28e+™ optical fiber, an ITU-T G.652.D-compliant optical fiber, is expanding the capability and performance of the world's metropolitan and access networks that support all broadband applications, including CATV and fiber to the home (FTTH). Significant performance advantages compared to the industry's legacy single-mode fibers include:

- * NexCor's MaxPower™ technology's Stimulated Brillouin Scattering threshold improvement for better system reach and coverage
- * Improved macrobend specifications, from 0.05 dB to 0.03 dB, for improved handling and ease of installation, critical considerations in today's access network designs
- * Tighter zero dispersion wavelength (λ_0) specification, specifically the λ_0 tolerance has been improved from a range of ± 10 nm to ± 7 nm, to enable lower cost transmitters and simplified network planning.

As with all Corning fiber products, SMF-28e+ fiber complies with the industry's most stringent requirements, including:

- ITU-T Recommendation G.652 (Tables A, B, C and D)
- IEC Specifications 60793-2-50 Type B1.3
- TIA/EIA 492-CAAB
- Telcordia Generic Requirements GR-20-CORE
- ISO 11801 OS2



Innovation Built on a Solid Foundation of Quality and Proven Performance

Corning® SMF-28e+™ is the latest evolution of Corning single-mode fiber, boasting superior full-spectrum performance and world-class specifications to empower metro and access networks and maximize the performance of FTTH and CATV networks. Corning is the only fiber manufacturer with the leadership and commitment to provide this capability for single-mode fiber.

Based on the solid foundation of reliability and consistency of Corning® SMF-28e® fiber, the industry benchmark for single-mode fiber performance, Corning SMF-28e+ has the same quality transmission, splicing, handling and coating performance that customers have trusted for years. It offers significant performance advantages, while maintaining full compatibility and interoperability with legacy single-mode networks. As a result, Corning expects this product to be preferred by customers for an increasing number of network projects.

Corning has demonstrated unparalleled leadership in single-mode fiber innovation and a commitment to quality for more than 30 years. We believe that fiber is a long-term investment and should be chosen wisely. Only Corning SMF-28e+ fiber can offer increased performance capabilities with transparent innovation that is backed by the unsurpassed expertise and proven performance of Corning. To maximize the performance of your optical network, rely on the company that invented optical fiber for communications.

Corning® Optical Fiber – The Measure of Trust

Corning's Service Advantage

Corning Optical Fiber delivers the world's most comprehensive package of innovative products and services, including:

- * Worldwide sales support and door-to-door customer service
- * Full range of fibers and special order capabilities
- * Specialized support from technical experts
- * Extensive fiber delivery capabilities with proven success rates
- * Real-time, web-based customer information
- * Dedicated account support for our long-term supply customers
- * Fiber support services and technical information for end-customers

At Corning Optical Fiber, we strive to provide the best possible customer service and technical support, before, during and after the sale. As a customer, you'll benefit from our established and extensive support infrastructure that's ready to meet your specific needs.

Corning's Product Advantage

Our enhanced, dual-acrylate CPC® coatings provide excellent protection. Designed to be mechanically stripped, they are optimized for many single- and multi-fiber cable designs, including loose tube, ribbon, sloped-core and tight-buffer cables.

Corning is committed to product excellence and meeting the evolving needs of our customers. As updates to fiber characteristics or performance specifications become available, they will be posted on the Corning Optical Fiber website at www.corning.com/opticalfiber.

Optical Specifications

Fiber Attenuation

Maximum Attenuation

Wavelength (nm)	Maximum Value* (dB/km)
1310	0.33 - 0.35
1383 ± 3**	0.31 - 0.35
1490	0.21 - 0.24
1550	0.19 - 0.20
1625	0.20 - 0.25

*Maximum specified attenuation value available within the stated ranges.

**Attenuation post-hydrogen aging according to IEC 60793-2-50 Section C.5 for B.1.3 fibers.

Alternate attenuation offerings available upon request.

Attenuation vs. Wavelength

Range (nm)	Ref. λ (nm)	Max. α Difference (dB/km)
1285 - 1350	1310	0.03
1525 - 1575	1550	0.02

The attenuation in a given wavelength range does not exceed the attenuation of the reference wavelength (λ) by more than the value α .

Macrobend Loss

Mandrel Diameter (mm)	Number of Turns	Wavelength (nm)	Induced Attenuation* (dB)
32	1	1550	≤ 0.03
50	100	1310	≤ 0.03
50	100	1550	≤ 0.03
60	100	1625	≤ 0.03

*The induced attenuation due to fiber wrapped around a mandrel of a specified diameter.

Point Discontinuity

Wavelength (nm)	Point Discontinuity (dB)
1310	≤ 0.05
1550	≤ 0.05

Cable Cutoff Wavelength (λ_{ccf})

$$\lambda_{ccf} \leq 1260 \text{ nm}$$

Mode-field Diameter

Wavelength (nm)	MFD (μm)
1310	9.2 ± 0.4
1550	10.4 ± 0.5

Dispersion

Wavelength (nm)	Dispersion Value [ps/(nm·km)]
1550	≤ 18.0
1625	≤ 22.0

Zero Dispersion Wavelength (λ_0): $1310 \text{ nm} \leq \lambda_0 \leq 1324 \text{ nm}$

Zero Dispersion Slope (S_0): $\leq 0.092 \text{ ps}/(\text{nm}^2 \cdot \text{km})$

Polarization Mode Dispersion (PMD)

	Value (ps/√km)
PMD Link Design Value	≤ 0.06
Maximum Individual Fiber	≤ 0.1

*Complies with IEC 60794-3: 2001, Section 5.5, Method 1, September 2001.

The PMD link design value is a term used to describe the PMD of concatenated lengths of fiber (also known as PMD_Q). This value represents a statistical upper limit for total link PMD. Individual PMD values may change when cabled.

Dimensional Specifications

Glass Geometry

Fiber Coil	$\geq 4.0 \text{ m}$ radius of curvature
Cladding Diameter	$125.0 \pm 0.7 \mu\text{m}$
Core-Clad Concentricity	$\leq 0.5 \mu\text{m}$
Cladding Non-Circularity	$\leq 0.7\%$

Coating Geometry

Coating Diameter	$242 \pm 5 \mu\text{m}$
Coating-Cladding Concentricity	$\leq 12 \mu\text{m}$

Environmental Specifications

Environmental Test	Test Condition	Induced Attenuation (dB/km)
Temperature Dependence	-60°C to +85°C*	≤ 0.05
Temperature Humidity Cycling	-10°C to +85°C* up to 98% RH	≤ 0.05
Water Immersion	23 ± 2°C	≤ 0.05
Heat Aging	85 ± 2°C	≤ 0.05

*Reference temperature = +23°C

Operating Temperature Range: -60°C to +85°C

How to Order

Contact your sales representative,
or call the Optical Fiber Customer
Service Department:
Ph: 607-248-2000 (U.S. and Canada)
+44-1244-525-325 (Europe)

Email: opticalfibers@corning.com

Please specify the fiber type, attenuation
and quantity when ordering.

Mechanical Specifications

Proof Test

The entire fiber length is subjected to a tensile
stress ≥ 100 kpsi (0.7 GPa)*.

*Higher proof test levels available.

Length

Fiber lengths available up to 63.0 km/spool.

Performance Characterizations

Characterized parameters are typical values.

Core Diameter	8.2 μm
Numerical Aperture	0.14 <i>NA is measured at the one percent power level of a one-dimensional far-field scan at 1310 nm.</i>
Zero Dispersion Wavelength (λ_0)	1317 nm
Zero Dispersion Slope (S_D)	0.088 ps/(nm ² •km)
Effective Group Index of Refraction (N_g)	1310 nm: 1.4676 1550 nm: 1.4682
Fatigue Resistance Parameter (N_f)	20
Coating Strip Force	Dry: 0.6 lbs. (3N) Wet, 14-day room temperature: 0.6 lbs. (3N)
Rayleigh Backscatter Coefficient (for 1 ns Pulse Width)	1310 nm: -77 dB 1550 nm: -82 dB

Formulas

Dispersion

$$\text{Dispersion} = D(\lambda) = \frac{S_D}{4} \left[\lambda - \frac{\lambda_0^2}{\lambda} \right] \text{ps}/(\text{nm} \cdot \text{km}),$$

for $1200 \text{ nm} \leq \lambda \leq 1625 \text{ nm}$

λ = Operating Wavelength

Cladding Non-Circularity

$$\text{Cladding Non-Circularity} = \left[1 - \frac{\text{Min. Cladding Diameter}}{\text{Max. Cladding Diameter}} \right] \times 100$$

Corning Incorporated
www.corning.com/opticalfiber

One Riverfront Plaza
Corning, NY 14831
U.S.A.

Ph: 800-232-2234 (U.S. and Canada)
607-248-2000 (International)

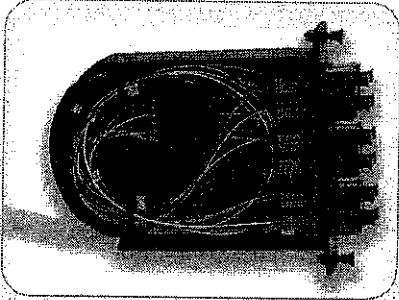
Fx: 800-339-3632 (U.S. and Canada)
607-786-8844 (International)

optical.fiber@corning.com

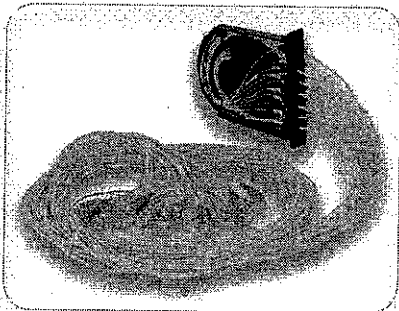
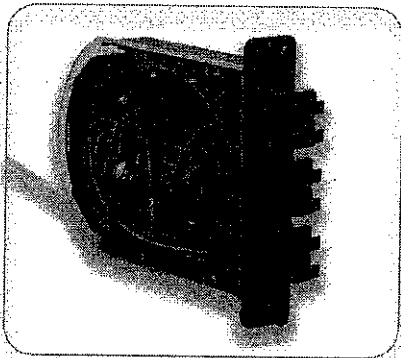
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New Corning optical products are available at
www.corning.com

Any warranty or liability relating to any Corning
optical fiber is only contained in the written agreement
between Corning Incorporated and the direct purchaser
of such fiber.

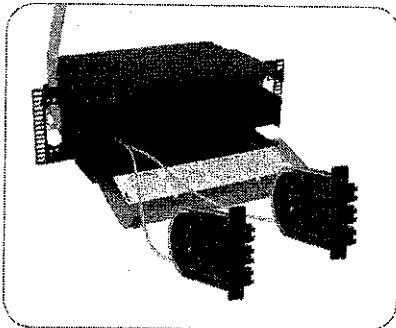
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12-Fiber SCIUPC Configuration



DAS Poli-MOD



Poli-MOD Patch and Splice Module

AFL's new Poli-MOD is an innovative patch and splice module, which offers an inventive and effective means to accommodate up to 24 fiber interconnections in an industry-standard, single-slot LGX®118 footprint. The new Poli-MOD offers a unique and robust way to secure cable without the need for time-wasting, tie-wrap alternatives. Additionally, the module leverages a creative snap-in splice sleeve cradle to securely manage both single and ribbon fiber arrangements. These features provide the capacity to outfit a standard 4RU rack-mount panel with up to 288-fiber interconnections.

The Poli-MOD is also offered in an arrangement that supports the low loss budget requirements of Distributed Antenna System (DAS) networks. This is accomplished through the elimination of an interconnection point while providing a robust splicing environment for rack and wall-mount panel applications.

Features

- 24-fiber interconnection capacity
- LGX 118 compatibility (single-slot module)
- Effective and time-saving cable mounting mechanism (no tie-wraps necessary)
- Inventive splice sleeve cradle
- Available in SC, LC, ST and FC connector arrangements
- Organized fiber routing
- Fixed solution, no moving parts
- Multi-directional cable entry access

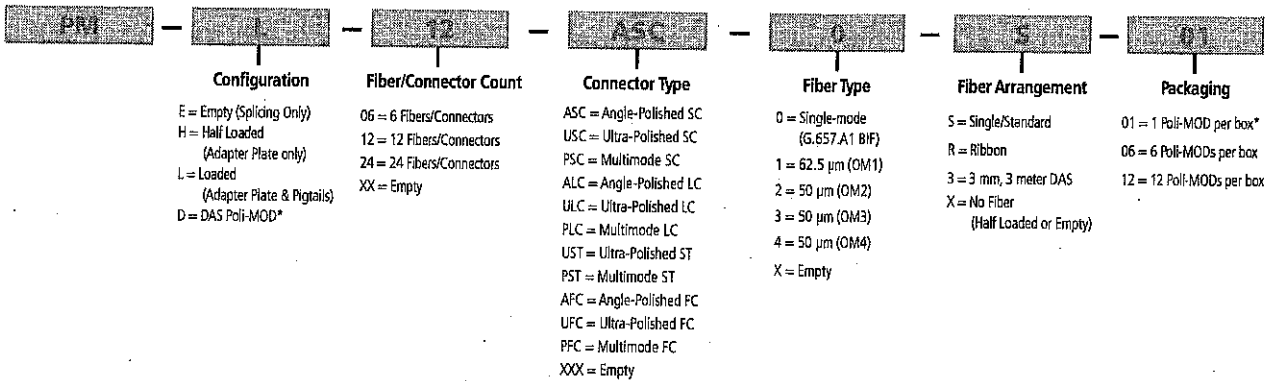
Applications

- Telecommunications Closets
- Data Centers
- Customer Premise
- Local Area Networks
- Wide Area Networks
- Central Offices
- Hub Sites
- Cabinets
- Remote Terminals
- Distributed Antenna Systems (DAS)

Poli-MOD Patch and Splice Module

Ordering Information

Example: PM-L-12-ASC-0-S-01



* DAS Poli-MOD requires specialty packaging and is packaged as "1 Poli-MOD per box" ONLY.

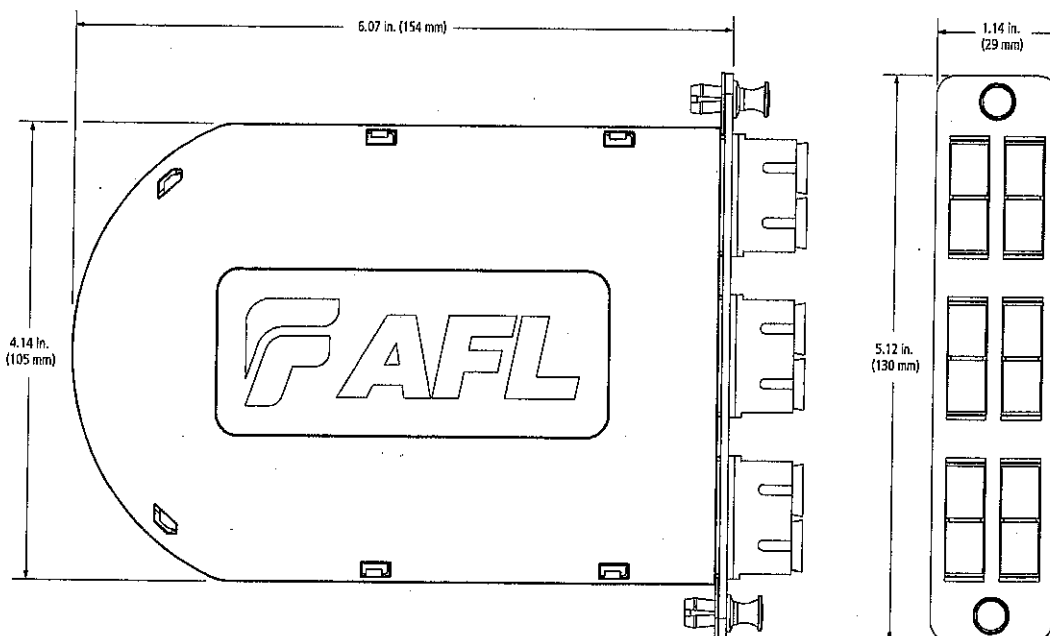
Connector Color Codes

CONNECTOR	COLOR
APC	Green
UPC	Blue
PC-OM1	Beige
PC-OM2	Black
PC-OM3 / PC-OM4	Aqua

Poli-MOD Kits/Accessories

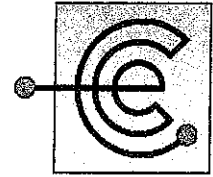
DESCRIPTION	AFL NO.
Poli-MOD Cable Mounting Clip Kit	FM003053
Fusion Splice Sleeve, FP-03, 40 mm	S000206
Adapter Bracket for Mounting Single Poli-MOD	FM000948-B
Corning CCH and PCH 145 mm Adapter Bracket	FM001636

Dimensions



Communication Construction & Engineering, Inc.

2091 E 74th Ave, Unit I
 Denver, CO 80229
 (303)906-5156
 RussM@CommunicationConstruction.com



ESTIMATE

ADDRESS

Adams County
 4430 South Adams County Parkway
 Brighton, CO 80601

ESTIMATE # 2606

DATE 11.23.2015

ACTIVITY	QTY	RATE	AMOUNT
Pricing for the following work from the Cherokee Tower location at 112th & I-25 to the Avaya Building at Pecos St & 120th Ave, then across 120th Ave to Western Services building on 123rd Ave & Pecos St. We will provide engineered drawings & ROW permits to Directional bore a 2"HDPE schedule 40 conduit with a 96ct SMF. There will be 50' slack loops in each 24"x36"x18" tier 15 handholes. There is an existing pathway from a handhole next to the street at the Cherokee Tower and We will use the existing building entrance at the Avaya Building out to a handhole along Pecos St. and an existing pathway at the Western Svcs building. Pricing includes terminations into existing racks at Cherokee Tower & Western Svcs. At Avaya we will have to wait until the room is available to terminate, but we will have two strands active from Cherokee Tower to Western Svcs. We will OTDR test all the strands and provide test results.			
Right of way engineering.	11,710	0.75	8,782.50
Obtain bond for municipality.	1	6,827.00	6,827.00
Right of way permit.(Northglenn & Westminster)	1	5,737.00	5,737.00
Traffic control.	10	400.00	4,000.00
Pothole existing underground utilities (day rate).	17	1,200.00	20,400.00
Directional bore and place a 2" conduit.	11,710	9.00	105,390.00
2" HDPE Conduit	11,710	0.94	11,007.40
Intercept existing vault/handhole/ped.	4	225.00	900.00
Provide and place mule tape in conduit.	12,960	0.30	3,888.00
Provide and install 24" X 36" X 18" Handhole.	11	558.00	6,138.00
Labor & Materials to install Fiber Markers	20	37.50	750.00
Excavate conduit and splice.	11	250.00	2,750.00
Materials to flash fill potholes in the street crossings	5	85.00	425.00
Remove and replace asphalt/concrete (sq/ft).	20	80.00	1,600.00
Landscape restoration (square feet).	190	5.00	950.00
Place fiber cable in conduit.	13,125	0.65	8,531.25
Provide 96ct SMF Material	15,000	0.97	14,550.00
<u>Cherokee Tower Terminations & Testing</u>			
Provide and install 4-module fiber shelf.	1	209.00	209.00

ACTIVITY	QTY	RATE	AMOUNT
Provide 12-strand fiber termination module, labor to splice pigtail and place in fiber enclosure..	8	528.00	4,224.00
OTDR test each strand of fiber in both directions and provide test results.	96	10.00	960.00
<u>Avaya/Human Services Terminations & Testing-pull into building at a later date.</u>			
Place fiber cable in conduit.	100	0.65	65.00
Provide and install 4-module fiber shelf.	2	209.00	418.00
Provide 12-strand fiber termination module, labor to splice pigtail and place in fiber enclosure..	16	528.00	8,448.00
OTDR test each strand of fiber in both directions and provide test results.	192	10.00	1,920.00
<u>Western Services- pulling into bldg. w/Terminations, Butt splice & Testing</u>			
Provide and Place plenum fiber cable to 2nd floor.	1	3,897.50	3,897.50
Provide and install fiber splice case, splice tray and prep cables.	1	633.00	633.00
Fusion splice each strand of fiber.	96	25.00	2,400.00
Provide and install 4-module fiber shelf.	1	209.00	209.00
Provide and install 12-strand fiber termination module.	8	480.00	3,840.00
OTDR test each strand of fiber in both directions and provide test results.	192	10.00	1,920.00
Assumptions:		0.00	0.00

Bore/Trench pricing is based on favorable soil conditions. If we encounter sandy or rocky soil or buried debris there will be additional charges.

All work will be done during normal business hours.

This bid includes estimated permit fees, traffic control, & bonds based on the two municipalities we will be working in.

Others will perform private facility locates, we are not responsible for damage to un-located private facilities.

If we will be using an existing conduit, there will be additional charges for damaged, crushed or contaminated conduit.

If we have to pothole existing utilities, we will patch the hole with cold patch. If the city/county requires full panel replacement, it will be an additional charge.

Wildlife, environmental or stormwater impact studies are not included in this quote.

TOTAL

\$231,769.65

Accepted By

Accepted Date