

CITY OF GAHANNA, OHIO
OPTICAL FIBER USE AGREEMENT

IRU for Fibers in Extension of Fiber System

THIS OPTICAL FIBER USE AGREEMENT (hereinafter referred to as the "Agreement") made and entered into as of this ___ day of _____, 2010, between the City of Gahanna, an Ohio municipal corporation (hereinafter referred to as the "Owner"), having an office at 200 S. Hamilton Road, Gahanna, Ohio 43230, and the Gahanna-Jefferson City School District (hereinafter referred to as the "User"), having an office at 160 S. Hamilton Road, Gahanna, Ohio 43230, and which are sometimes referred to individually as "Party" and collectively as "Parties."

WITNESSETH:

WHEREAS, pursuant to Section 3313.59, Ohio Revised Code, the Parties may cooperate for educational, social, civic and recreational purposes in buildings and upon grounds in the custody and under the management of the Parties; and

WHEREAS, the Owner has an existing optical fiber system throughout the City of Gahanna, Ohio, which is depicted in the attached Exhibit A; and

WHEREAS, the User has a need to interconnect into the fiber system, and shall construct certain conduit and fiber extensions to the fiber system for its own benefit, and for the benefit of the fiber system as a whole, said extensions depicted in the attached Exhibit B; and

WHEREAS, the User shall execute a Bill of Sale conveying the extensions to the fiber system depicted in Exhibit B to the Owner, so that the Owner can fully incorporate these extensions into the Fiber System and so that the Owner can assume responsibility for performing maintenance on the extensions pursuant to its standard maintenance procedures as further detailed herein (the fiber system depicted in Exhibit A and the extensions depicted in Exhibit B are collectively referred to herein and further defined in Section 1.1(b) as the "Fiber System"); and

WHEREAS, the Owner herein, through this document, provides User with a perpetual Indefeasible Right to Use ("IRU") those components of the Fiber System set forth in Section 2.1, per the terms and conditions of this Agreement; and

WHEREAS, in connection with the grant to User of an IRU in and to such fibers, the Owner is willing to allow User to use certain other property owned by the Owner, including, but not limited to, innerduct, conduit, building entrance facilities and associated appurtenances; and

WHEREAS, User has obtained any and all permits or approvals required to engage in its intended purpose and for the use and occupancy of space in the Rights of Way and further agrees to adhere to any and all requirements of federal, state and local laws, rules or regulations

EXHIBIT A

(specifically inclusive of, but not limited to, Chapter 931 of the Codified Ordinances of the City of Gahanna, Ohio); and

WHEREAS, the Parties have agreed to enter into this Agreement which embodies the mutual covenants and agreements between the Parties hereto and for each such project; and

WHEREAS, the Parties may in the future agree to enter into additional separate agreement(s) for additional and/or separate optical fiber uses which will incorporate the covenants and agreements of this Agreement and which will also set forth the terms and provisions unique to each additional or different specific project.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth in this Agreement, the Parties hereto do hereby agree as follows:

1. DEFINITIONS.

1.1 The following terms, whether in the singular or in the plural, when used in this Agreement and initially capitalized, shall have the meaning specified:

- a. Agreement: This Optical Fiber Use Agreement between the Owner and User which identify the specific optical fiber strands and facilities to be as provided to User by Owner and which set forth the associated fees/compensation, terms and conditions for User's use of such optical fiber strands and facilities.
- b. Fiber System: The optical fiber strands, innerduct, conduit, building entrance facilities, associated appurtenances, and capacity owned by the Owner, and pictorially represented and described attached Exhibit A and Exhibit B.
- c. User System: Those components of the Fiber System identified in Section 2.1 herein.

2. GRANT.

2.1 The Owner hereby grants to User an Indefeasible Right of Use (IRU) the following:

- a. Access to the conduit that is to be constructed by the User, so that User may arrange for the future installation of cable, provided that this access shall be granted only to a contractor that has been mutually agreed upon to perform work within the conduit.
- b. Lateral F to Fiber System, Fibers 1-12
- c. Lateral G to Fiber System, Fibers 1-12
- d. Lateral I to Fiber System, Fibers 1-12
- e. Lateral J to Fiber System, Fibers 1-12

f. Lateral K to Fiber System, Fibers 1-24

3. TERM.

3.1 The term of this IRU shall be perpetual, for so long as the Fiber System is operational and unless the Parties mutually agree otherwise (the "Term").

4. CONSIDERATION.

4.1 Columbus Fibernet LLC ("Fishel") is constructing the extensions to the fiber system to various schools within User's school district. Fishel shall fill each of these laterals with twenty-four (24) fibers. As consideration for, as inducement to, and as a required condition of Owner granting User the specific rights to use portions of the Fiber System as described herein, the User hereby agrees that:

a. Owner shall be given the right to use, for its own benefit, twelve (12) of the twenty-four (24) fibers in the laterals constructed by Fishel for User's school district. The laterals to be constructed by Fishel and subject to the terms of this paragraph are listed in the attached Exhibit C. Exhibit C may be amended from time to time by mutual consent of the parties.

b. Owner shall have access rights to the roofs of those User schools listed in the attached Exhibit D, as well as to necessary risers within these schools, in order to install, own, repair, operate, remove, improve, and maintain wireless and related equipment. User shall provide Owner with reasonable access to the schools listed in Exhibit D for ingress, egress, installation, operation, maintenance, inspection, replacement, improvement, removal, and disconnection of equipment during the Term of the Agreement.

4.2 User shall not provide any monetary compensation to the Owner for the IRU granted by the Owner herein, although User is responsible for the pro-rata share of its maintenance obligations described in Section 8 of this Agreement.

5. OWNER'S OBLIGATIONS.

5.1 Owner shall:

a. Owner will provide the User System for User's use in accordance with the terms of this Agreement.

b. Provide and/or control maintenance and repair functions on the User System and all facilities in the Fiber System through which the User System passes, including, but not limited to, conduit, innerduct, poles and equipment, shall be performed under the direction of the Owner.

c. Maintain the User System to the User's specifications.

6. USER OBLIGATIONS.

6.1 User shall:

- a. Provide and pay for all lateral connectivity from all necessary termination points of User's proprietary fiber and equipment to all the necessary demarcation points of Owner's Fiber System if such connectivity is necessary.
- b. Pay for any building or external network service connection and disconnection charges for each building service added or deleted before, during or after the initial establishment and cutover of a User System fiber segment. User shall be responsible for any and all costs associated with lateral connectivity to the Fiber System and shall pay for the costs of all splicing, distribution segment, service connections, and any ring or concentrator operations.
- c. Pay all necessary costs if the User requires installation of a new distribution ring or concentrator in an already established Fiber System or User System distribution segment, rearrangement of existing service connections, and rearrangement of a ring or concentrator operation.
- d. Agree not to use the User System provided in this Agreement to provide non-educational or primarily commercial services to any non-related party without the prior written consent of the Owner. User agrees not to use the User System provided in this Agreement to provide non-educational or primarily commercial services to non-related parties in conjunction with a third party without the prior written consent of the Owner. User also agrees that it shall not provide for or allow any non-related party to use the User System or in any way sublease or subdivide the User System and provide services to non-related or third parties without the prior written consent of the Owner. User further agrees to continually meet the requirements of this Agreement. In the event of any breach of the provisions contained in this Section, the Owner has the right to terminate this Agreement upon giving thirty (30) days written notice to User.
- e. Agree to pay its pro rata share of any and all maintenance costs as may be required to be paid by User pursuant to the requirements of Section 8.1(a-c) below.

7. JOINT OBLIGATIONS.

7.1 The Owner and User jointly:

- a. Agree that within thirty (30) days of final execution of this Agreement the Parties will agree upon an acceptance plan for User's initial activation and the "go-live" of User's System.

- b. Shall provide each other a twenty-four (24) hour a day, three hundred sixty-five (365) days per year, coordination telephone number.

8. MAINTENANCE.

8.1 All maintenance and repair functions on the User System and all facilities through which the User System passes, including, but not limited to, conduit, innerduct, poles, and equipment, but specifically excluding all User owned and controlled opto-electronics located at lateral terminus points, shall be performed by or at the direction of the Owner or Owner's appointed agent with reasonable notice to User. Except as otherwise may be agreed to by the parties, User is prohibited from performing any maintenance or repair on the Fiber System or User System. User shall have the right to have an employee or representative available to assist the Owner in any maintenance or repair of the User System. The Owner shall maintain the User System in accordance with the technical specifications (hereinafter referred to as the "Specifications") attached hereto in Exhibit E.

- a. Regular Maintenance: Owner may from time to time undertake and provide for Regular Maintenance activities in an attempt to keep the Fiber System and/or User System in good working order and repair so that it performs to a standard equal to that which is then commonly believed to be acceptable for systems of similar construction, location, use and type. User agrees to pay the reasonable pro rata share of the regular maintenance costs.
- b. Scheduled Maintenance: The Owner from time to time may schedule and perform specific periodic maintenance to protect the integrity of the Fiber System and/or User System and perform changes or modifications to the Fiber System and/or User System (including but not limited to fiber slicing, etc.) at the User's request. Such User requested Scheduled Maintenance shall be performed at the User's sole cost and expense. User may request such Scheduled Maintenance by delivering to the Owner a Statement of Work detailing the service User desires to be performed, including the time schedule for such services. Upon receipt of such a Statement of Work, the Owner will provide an estimate of the price and timing of such Scheduled Maintenance. Following User's acceptance of such estimate, the Owner will schedule and have such Scheduled Maintenance performed. The Owner will have such Scheduled Maintenance performed on a time-and-materials basis at the standard rates then in effect at the time services are performed.
- c. Emergency Maintenance: The Owner may undertake and provide for Emergency Maintenance and repair activities for the Fiber System and/or User System. Where necessary, the Owner shall attempt to respond to any failure, interruption or impairment in the operation of the User System within Four (4) hours after receiving a report of any such failure, interruption or impairment. The Owner shall use its best efforts to perform maintenance and repair to correct any failure, interruption or impairment in the operation of the User System when reported by User in accordance with the procedures set forth in this Agreement. The costs and expenses associated with such Emergency Maintenance shall be apportioned

between Owner and User in percentages equal to their respective interests of control (based on the terms of this Agreement) over the portions of the User System and/or Fiber System requiring such Emergency Maintenance. The Owner will have such Emergency Maintenance performed on a time-and-materials basis at the emergency maintenance rates then in effect at the time services are performed.

- 8.2 In the event the Owner, or others acting on the Owner's behalf, at any time during the Term of this Agreement, discontinues maintenance and/or repair of the User Systems, User, or others acting in User's behalf, shall have the right, but not the obligation, to thereafter provide for the previously Owner provided maintenance and repair of the User System, at the User's sole cost and expense. Any such discontinuance shall be upon not less than six (6) months prior written notice to User. In the event of such discontinuance, the Owner shall obtain for User, or others acting on User's behalf, approval for adequate access to the Rights of Way in, on, across, along or through which the User System is located, for the purpose of permitting User, or others acting in User's behalf, to undertake such maintenance and repair of the User System.
- 8.3 In the event any failure, interruption or impairment adversely affects both the Owner's Fiber System and the User System, restoration of the User System shall at all times be subordinate to restoration of the Owner's Fiber System with special priority for Owner's public safety and municipal infrastructure functions carried over the Fiber System, unless otherwise agreed to in advance by the parties hereto. In such event or in the event the Owner is unable to provide timely repair service to the User System, the Owner may, following written request, permit User to make repairs to restore the User System as long as such restoration efforts do not interfere with the Owner's restoration activities.
- 8.4 Any User subcontractors or employees who undertake repair or maintenance work on the User System shall first be approved by the Owner to work on the Owner's Fiber System. **At present, Owner only authorizes User to utilize the services of Fishel to undertake repair or maintenance work on the User System.** Prior to User's undertaking Emergency Maintenance or entering a Owner's facility for repair, User shall first notify the Owner of the contemplated action and receive the Owner's concurrence decision, a decision that the Owner shall provide to User no later than twelve (12) hours from User's notification to Owner of contemplated action. When User undertakes Emergency Maintenance of the User System, User shall have an Owner employee or representative available to assist the User in any repair of the User System.

9. USE OF THE USER SYSTEM.

- 9.1 User shall have exclusive control over its provision of telecommunications, video, data, and/or information services.
- 9.2 User hereby certifies that it is authorized or will be authorized, where required, on the effective date this Agreement to provide telecommunications, video, data, and/or information services within the State of Ohio, the City of Gahanna, Ohio and in such

other jurisdictions as the User System may exist, and that such services can be provided on the Fiber optic cable systems such as the Fiber System owned and operated by the Owner.

- 9.3 User understands and acknowledges that its use of the Fiber System and User System are subject to all applicable local, state and federal laws, rules and regulations, as enacted, either currently or in the future, in the jurisdictions in which the Fiber System and User System are located. User represents and warrants that it shall operate on the Fiber System and User System subject to, and in accordance with, all laws, rules and regulations and shall secure all permits, approvals, and authorizations from all such jurisdictional entities as may be necessary.
10. RELEASE.
- 10.1 To the extent permitted by law, User shall be solely liable for its own actions that result in any obligation, loss, claim (including third party claims against Owner) and damage whatsoever, regardless of cause thereof, and expenses in connection therewith including, without limitation, expenses, penalties and interest (collectively, "Losses") arising out of or resulting from the entering into this Agreement and any payment, transfer or other application of moneys by User in accordance with provisions of this Agreement; provided, however, that User shall not release Owner for Losses arising out of or resulting from Owner's own willful or negligent conduct. The liability arising under this Section shall survive termination of this Agreement
- 10.2 User shall not in any way be liable for, and User does not assume, any risk, liability, or responsibility or duty of care as to Owner or Owner's agents, or any of their respective employees, agents, or contractors when on the User's property to perform maintenance or repair of the Fiber System or User System. Owner acknowledges and agrees that Owner and its agents, and their respective employees, agents, or contractors enter the User's property and conduct the maintenance and repair work at their own risk.
- 10.3 At the request of User prior to entry, each of Owner's agents must agree to indemnify, protect, defend and hold User harmless from and against all damages, claims, actions, liabilities, liens and expense suffered or incurred by User related to or arising out of the entry by Owner's agents onto the User's property or the actions of Owner's agents in conducting any of the maintenance and repair. Owner shall cause each of Owner's agents to agree to be bound by the provisions of this Section. If there is any damage to or alteration of the User's property as a result of or in any way attributable to any actions or activities of Owner or Owner's agents, then Owner shall promptly remedy and repair such damage or alteration and shall fully restore the User's property to User's satisfaction (acting reasonably), at Owner's expense. The obligations Owner and Owner's agents, under this Section hereof shall survive the termination of this Agreement for any reason.

11. INSURANCE.

- 11.1 During the Term of this Agreement, unless otherwise agreed to in writing by the authorized representatives, User shall at its own expense, maintain in effect, insurance coverage with limits not less than those set forth herein.
- 11.2 The User shall furnish the Owner's authorized representative within thirty (30) days after the Commencement Date of the Agreement with insurance endorsements acceptable to Owner's Director of Law. The endorsements shall be evidence that the policies providing coverage and limits of insurance are in full force and effect. Such insurance shall be maintained by the User at the User's sole cost and expense.
- 11.3 The User endorsements shall name the Owner and all of its elected officials, officers and employees, agents and volunteers as additional insureds. The endorsements shall also contain a provision that the policy cannot be canceled or reduced in coverage or amount without first giving thirty (30) calendar days written notice thereof by registered mail to the Owner at the following address:
- City of Gahanna
Law Director
200 S. Hamilton Road
Gahanna, Ohio 43230
- 11.4 Such insurance shall not limit or qualify the obligations the User assumed under the Agreement. The Owner shall not by reason of its inclusion under these policies incur liability to the insurance carrier for payment of the premium for these policies.
- 11.5 Any insurance or other liability protection carried or possessed by the Owner, which may be applicable, shall be deemed to be excess insurance and the User's insurance is primary for all purposes despite any conflicting provision in the User's policies to the contrary.
- 11.6 User shall be responsible for all User contractors' or subcontractors' compliance with the insurance requirements.
- 11.7 Failure of the User to maintain such insurance, or to provide such endorsements to the Owner when due, shall be an event of default under the provisions of this Agreement.
- 11.8 The User shall obtain and maintain Commercial General Liability Insurance, including the following coverages: Product liability hazard of User's premises/operations (including explosion, collapse and underground coverages); independent contractors; products and completed operations (extending for one (1) year after the termination of this Agreement); blanket contractual liability (covering the liability assumed in this Agreement); personal injury (including death); and broad form property damage. Such coverage shall provide coverage for total limits actually arranged by the User but not less than Two Million Dollars and No Cents (US\$2,000,000.00) combined single limit. Should the policy have an aggregate limit, such aggregate limits should not be less than double the combined single limit and be specific for this Agreement. Umbrella or Excess Liability coverages may be used to supplement primary coverages to meet the required

limits. Evidence of such coverage shall be in a form acceptable to the Owner's Director of Law.

- 11.9 The User shall provide Workers' Compensation insurance covering all of the User's employees in accordance with the laws of the state of Ohio.
- 11.10 The User may use an Umbrella or Excess Liability coverage to net coverage limits specified in the Agreement. Evidence of Excess Liability shall be in a form acceptable to Owner's Director of Law.
- 11.11 The foregoing insurance requirements are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by the User under this Agreement.

12. DEFAULT.

- 12.1 Unless otherwise specified in this Agreement, User shall not be in default under this Agreement, or in breach of any provision hereof unless and until the Owner shall have given User written notice of a breach and User shall have failed to cure the same within thirty (30) days after receipt of a notice; provided, however, that where such breach cannot reasonably be cured within such thirty (30) day period, if User shall proceed promptly to cure the same and prosecute such curing with due diligence, the time for curing such breach shall be extended for a reasonable period of time to complete such curing. Upon the failure by User to timely cure any such breach after notice thereof from the Owner, the Owner shall have the right to take such action as it may determine, in its sole discretion, to be necessary to cure the breach or terminate this Agreement or pursue such other remedies as may be provided at law or in equity.
- 12.2 Unless otherwise specified in this Agreement, the Owner shall not be in default under this Agreement or in breach of any provision hereof unless and until User shall have given the Owner written notice of such breach and the Owner shall have failed to cure the same within thirty (30) days after receipt of such notice; provided, however, that where such breach cannot reasonably be cured within such thirty (30) day period, if the Owner shall proceed promptly to cure the same and prosecute such curing with due diligence, the time for curing such breach shall be extended for a reasonable period of time to complete such curing. Upon the failure by the Owner to timely cure any such breach after notice thereof from User, User shall have the right to take such action as it may determine, in its sole discretion, to be necessary to cure the breach or terminate this Agreement or pursue other remedies as may be provided at law or in equity.
- 12.3 If User shall file a petition in bankruptcy or for reorganization or for an arrangement pursuant to any present or future federal or state bankruptcy law or under any similar federal or state law, or shall be adjudicated a bankrupt or insolvent, or shall make a general assignment for the benefit of its creditors, or shall admit in writing its inability to pay its debts generally as they become due, or if any involuntary petition proposing the adjudication of User, as a bankrupt or its reorganization under any present or future federal or state bankruptcy law or any similar federal or state law shall be filed in any court and such petition shall not be discharged or denied within ninety (90) days after the

filing thereof, or if a receiver, trustee or liquidator of all or substantially all of the assets of User shall be appointed then the Owner may, at its sole option, immediately terminate this Agreement.

13. FORCE MAJEURE.

- 13.1 Neither Party shall be liable to the other for any failure of performance under this Agreement due to causes beyond its control (except for the fulfillment of payment obligations as set forth herein), including, but not limited to: acts of God, fire, flood, earthquake or other catastrophes; adverse weather conditions; material or facility shortages or unavailability not resulting from such Party's failure to timely place orders therefor; lack of transportation; national emergencies; insurrections; riots, wars; or strikes, lockouts, work stoppages or other labor difficulties (collectively, "Force Majeure Events").

14. ASSIGNMENT.

- 14.1 This Agreement shall be binding upon and inure to the benefit of the Parties hereto and their respective successors or assigns; provided, however, that no assignment hereof or sublease, assignment or licensing (hereinafter collectively referred to as a "Transfer") of any rights or obligations hereunder shall be valid for any purpose without the prior written consent of each Party hereto, not to be unreasonably withheld.

15. WAIVER OF TERMS OR CONSENT TO BREACH.

- 15.1 No term or provision of this Agreement shall be waived and no breach excused, unless such waiver or consent shall be in writing and signed by a duly authorized officer of the Party claimed to have waived or consented to such breach. Any consent by either Party to, or waiver of, a breach by the other Party shall not constitute a waiver of or consent to any subsequent or different breach of this Agreement by the other Party, such failure to enforce shall not be considered a consent to or a waiver of said breach or any subsequent breach for any purpose whatsoever.

16. RELATIONSHIP NOT A PARTNERSHIP OR AN AGENCY.

- 16.1 The relationship between User and the Owner shall not be that of partners or agents for one another and nothing contained in this Agreement shall be deemed to constitute a partnership, joint venture or agency Agreement between the Parties hereto.

17. NO THIRD-PARTY BENEFICIARIES.

- 17.1 This Agreement is for the sole benefit of the Parties hereto and their respective permitted successors and assigns and shall not be construed as granting rights to any person or entity other than the Parties or imposing on either Party obligations to any person or entity other than a Party.

18. EFFECT OF SECTION HEADINGS.

- 18.1 Section headings appearing in this Agreement are inserted for convenience only and shall not be construed as interpretations of text.

19. NOTICES.

- 19.1 Any written notice under this Agreement shall be deemed properly given if sent by registered or certified mail, postage prepaid, or by nationally recognized overnight delivery service or by facsimile to the address specified below, unless otherwise provided for in this Agreement:

If to User to:
Superintendent
Gahanna-Jefferson City School
District.
160 S. Hamilton Road
Gahanna, Ohio 43230
With a Copy to:
Executive Director, Business and
School Improvement
Gahanna-Jefferson City School
District.
160 S. Hamilton Road
Gahanna, Ohio 43230

If to Owner to:
Mayor
City of Gahanna
200 S. Hamilton Road
Gahanna, Ohio 43230

With a Copy to:
Law Director
City of Gahanna
200 S. Hamilton Road
Gahanna, Ohio 43230

- 19.2 Either Party may, by written notice to the other Party, change the name or address of the person to receive notices pursuant to this Agreement.

20. SEVERABILITY.

- 20.1 In the event any term, covenant or condition of this Agreement, or the application of such term, covenant or condition, shall be held invalid as to any person or circumstance by any court having jurisdiction, all other terms, covenants and conditions of this Agreement and their application shall not be affected thereby, but shall remain in force and effect unless a court holds that the invalid term, covenant or condition is not separable from all other terms, covenants and conditions of this Agreement.

21. COMPLIANCE WITH LAW.

- 21.1 Each Party hereto agrees that it will perform its respective rights and obligations hereunder in accordance with all applicable laws, rules and regulations.

22. GOVERNING LAW AND VENUE.

22.1 This Agreement shall be interpreted in accordance with the Charter and Codified Ordinances of the City of Gahanna, as amended, the laws of the State of Ohio, and all applicable federal laws, rules and regulations as if this Agreement were executed and performed wholly within the State of Ohio. No conflict of law provisions shall be invoked so as to use the laws of any other jurisdiction. The exclusive venue for all cases or disputes related to or arising out of this Agreement shall be the state and federal courts in Franklin County, Ohio

23. ENTIRE AGREEMENT.

This Agreement, including any Exhibit attached hereto, all constitute the entire agreement between the parties with respect to the subject matter. This Agreement cannot be modified except in writing and signed by both parties.

IN WITNESS WHEREOF the parties have executed and delivered this Agreement effective the day and year first above written:

USER:

Gahanna-Jefferson City School District

By:

Its:

OWNER:

City of Gahanna, an Ohio municipal corporation

By: Rebecca Stinchcomb
Its:

Approved As To Form:

Law Director, City of Gahanna, Ohio.

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EXHIBIT A

FIBER SYSTEM

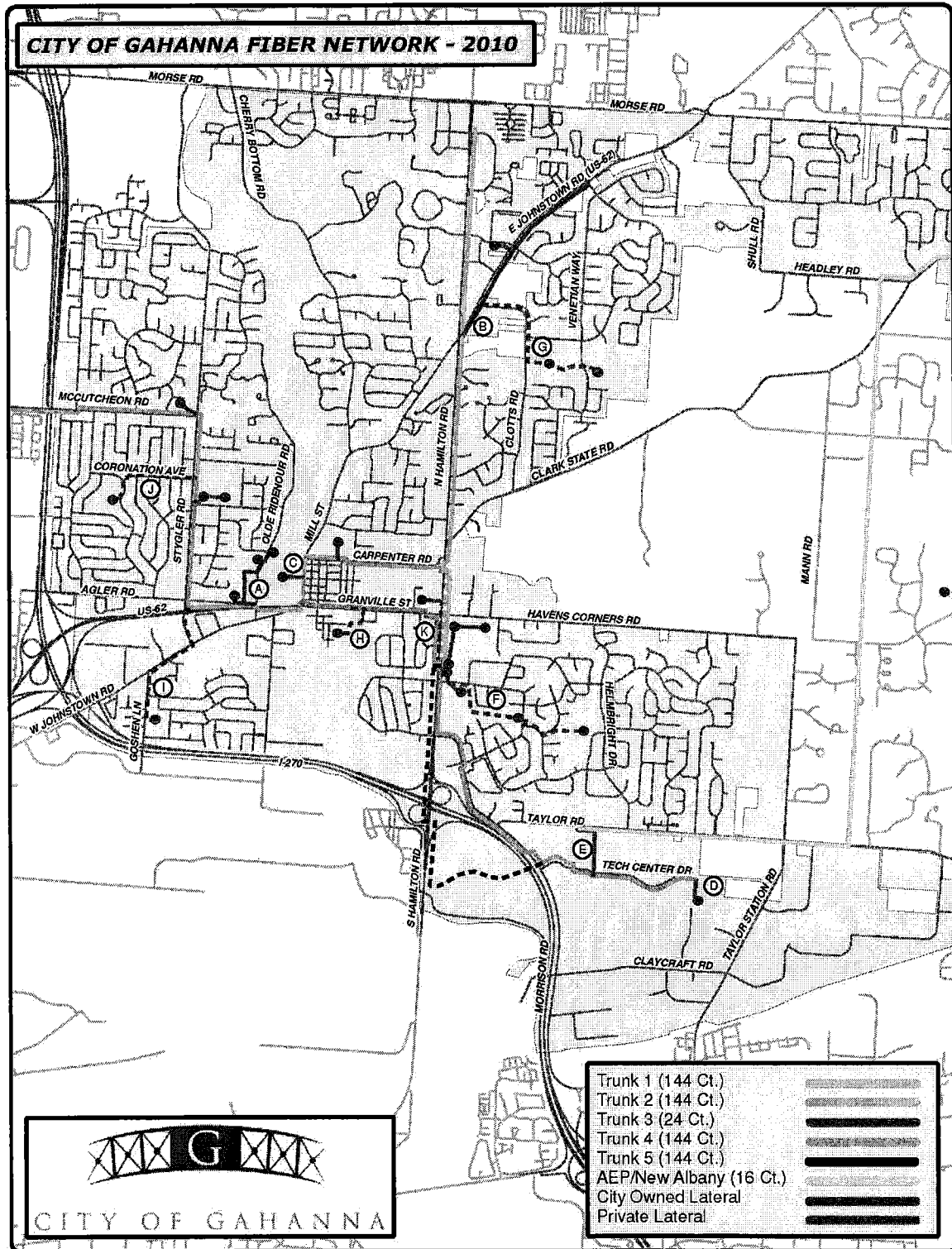


EXHIBIT B

USER EXTENSIONS TO FIBER SYSTEM

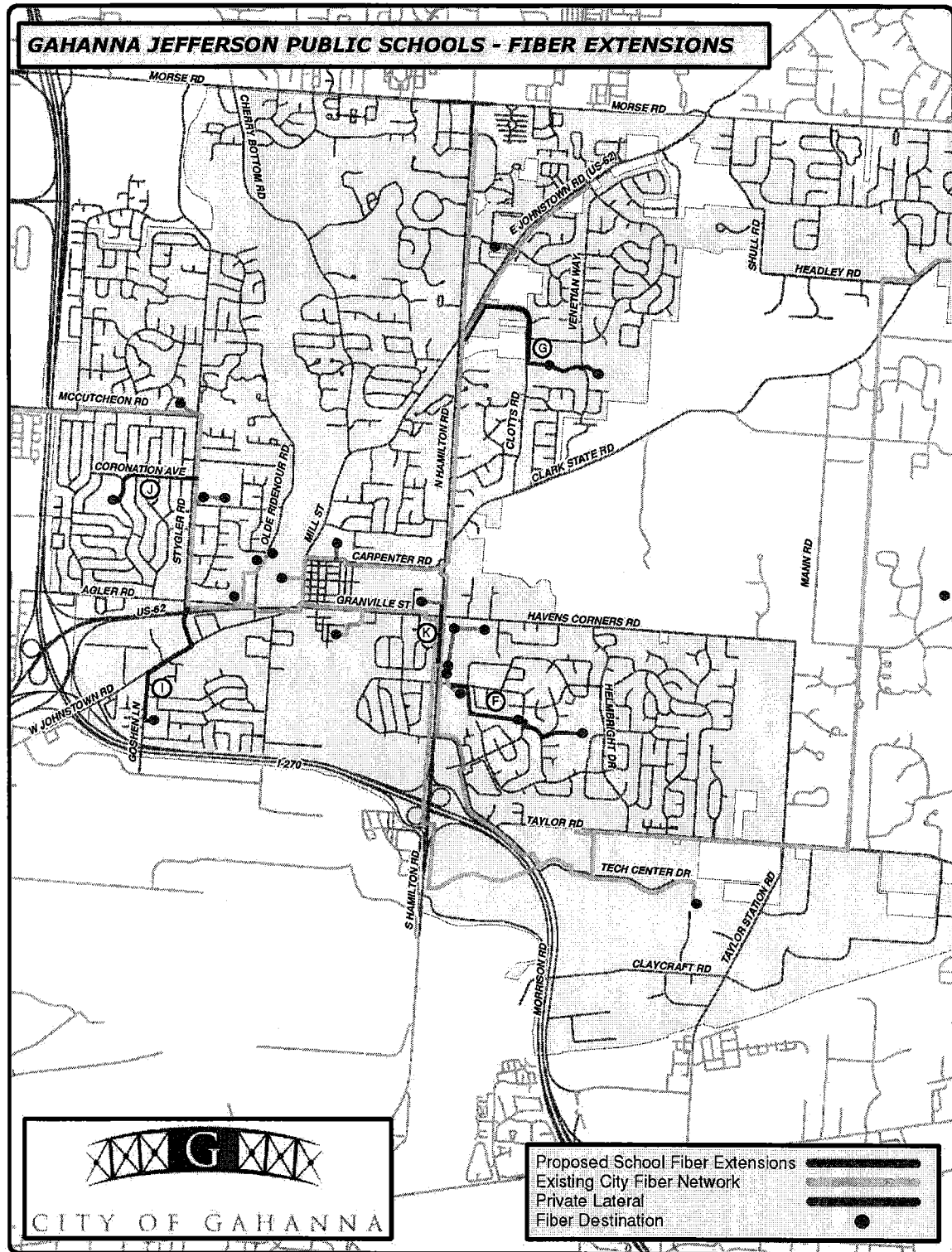


EXHIBIT C

USER'S SCHOOLS THAT OWNER WILL OBTAIN RIGHTS TO FIBER USE WITHIN LATERALS

- Royal Manor Elementary
- Goshen Lane Elementary
- Jefferson Elementary
- Middle School East
- High Point Elementary
- Middle School South
- Middle School West

EXHIBIT D

USER'S SCHOOLS THAT OWNER WILL OBTAIN ROOF RIGHTS

- Royal Manor Elementary
- Goshen Lane Elementary
- Jefferson Elementary
- Middle School East
- High Point Elementary
- Middle School South
- Middle School West
- Blacklick
- Chapelfield Elementary and Middle School

EXHIBIT E

Standard Construction & Fiber Specifications **As-Built Drawing Specifications**

Fiber Specifications

Fiber Type varies and is dependent upon route, as generally shown in Exhibit A, but all fiber was manufactured by either Alcoa, Corning or other comparable manufacturer.

Maximum Splice Losses (measured on an individual basis, not averaged)

The maximum splice loss for any individual splice measured "bi-directional" shall not exceed 0.15 db.

The maximum splice loss for any individual transition splice (standard single mode fiber spliced to a non zero dispersion shifted fiber) measured bi-directional" shall not exceed 0.25 db.

The maximum loss for "through" office loss including connectors and jumpers shall not exceed 1db.

Average Splice Loss

The average splice loss shall not exceed 0.10 db. (used for total Span loss calculation only)

Cable Requirements

0.3 db/Km attenuation at 1550nm.

0.4 db/Km attenuation at 1310nm.

Drawings:

Detailed As-Built drawings will be supplied within 20 business days after the execution of this contract. As-Built drawings provided to the Customer by the Fiber Owner will contain the following information presented in the format described below.

1. Route Description The As-Built drawings will contain a geographical depiction of the Segment containing the Customer Strands, provided in the form of a hard copy map. The depiction will identify each POP.
2. Fiber Level Details: The As-Built drawings will provide details on fiber assignment numbers within the cable between each POP and the next contiguous POP, fiber distribution bay, individual fiber assignments, and Fiber Owner circuit ID's to aid in identifying Segments within the cable system.
3. Mileage: Mileage will be the fiber distances via OTDR traces between a POP and the next contiguous POP.

4. Site Names: POPs will be identified using the Fiber Owner's names for such sites, whether or not the Customer uses the same names.
5. Owner may require the use of Common Language Location Identifier (CLLI Code).