

CITY OF KALAMAZOO

SPECIAL PROVISION

FOR

DIAMOND GRINDING

COK

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1/18/2023

a. Description.

Work shall consist of diamond grinding concrete sidewalk pavement to eliminate slight irregularities in the sidewalk and create a smooth walking surface free of trip hazards. Diamond grinding shall be done in accordance with MDOT Standard Specifications of Construction Section 603.03. except as detailed in this special provision.

b. Materials.

Use diamond grinding equipment in accordance with Section 603.03.A. as required for the application of grinding concrete in a sidewalk area.

c. Construction Methods.

Construction methods should follow Section 603.03.C. except the following methods should be used for texturing the ground area and disposing of the slurry for use in sidewalk areas:

Uniformly groove a parallel corduroy-type texture, consisting of grooves with a width of $\frac{1}{8}$ inch and a nominal depth of $\frac{1}{16}$ inch with a tolerance of $\frac{1}{16}$ inch. The grooves must be spaced at $\frac{3}{4}$ inch on center with a tolerance of $\frac{1}{16}$ inch. Provide a mean texture depth from 0.04 inch to 0.10 inch, in accordance with ASTM E965

Control and Disposal of Grinding and Grooving Slurry. Before beginning grinding and grooving, obtain the Engineer's approval *for the slurry disposal method.*

Do not allow grinding and grooving slurry to enter City drainage systems.

Grinding and grooving slurry should not be left adjacent to the sidewalks or placed in the curb lawn or lawns of adjacent property owners. Instead, any accumulated slurry should be disposed of at an Engineer-approved location.

Careful attention should be given to safety and appearance during grinding and grooving operations to ensure that the area is protected and no loose material is thrown damaging personnel or property. All material removed during grinding and grooving operations shall be removed from the site and properly disposed of by the Contractor.

If surface runoff occurs, collect, and haul the grinding and grooving slurry to an Engineer-approved location at no additional cost to the Department.

d. Measurement and Payment.

Contract Item (Pay Item)

Pay Unit

Diamond Grinding Conc Sidewalk, Special.....Ft

CITY OF KALAMAZOO

SPECIAL PROVISION

FOR

MAINTAINING TRAFFIC

COK

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1/18/2023

a. Description. This work shall consist of maintaining construction zone traffic and placing traffic control devices for Sidewalk Gap Project and any affected side streets as described in this special provision and as directed by the Engineer in the City of Kalamazoo, Michigan.

b. Materials. Provide material in accordance with Sections 812 and 922 of the Michigan Department of Transportation (MDOT) Standard Specifications for Construction.

c. Storage of Materials. Location for storage of materials shall be addressed by the contractor in the City ROW permit and approved by the Engineer prior to the commencement of work. All maintenance of traffic materials shall be stored in the approved location(s). Any items not stored in the proper location shall be corrected no later than 24 hours after notice is given by the Engineer. Items found not stored in the approved locations or not corrected within the allotted time shall be grounds for the City to withhold payment for maintenance of traffic until corrected.

d. Construction. Traffic shall be maintained according to Chapter 6 of the Michigan Manual on Uniform Traffic Control Devices (MMUTCD) Guide to Sections 104.07, 104.11, 812, and 922 of the MDOT Standard Specifications for Construction, including any Supplemental Specifications, and as specified here.

1. The Contractor shall notify the Project Engineer a minimum of 72 hours prior to the implementation of any detours, road closures, shoulder closures, or lane closures.

2. The Contractor shall coordinate his operations with Contractors performing work on other projects within or adjacent to the Construction Influence Area (CIA).

3. City of Kalamazoo (City), maintenance crews and/or Contract Maintenance Agencies may perform maintenance work within or adjacent to the CIA. The City and/or Contract Maintenance Agency will coordinate their operations with the Engineer to minimize the interference to the Contractor. No additional payment will be made to the Contractor for the joint use of the traffic control items.

4. The Contractor shall provide a traffic control plan for each phase of the project to the Engineer for approval by the Traffic Safety Department and the Engineer prior to beginning work requiring traffic control. The traffic control plan shall include all temporary signage, type II barricades, type III barricades, plastic drums, etc. and appropriate temporary pavement markings where needed.

5. Construction Influence Area (CIA). The CIA shall include the right-of-way of the following roadways, within the approximate limits described below:

- A. Fraternity Village Drive: Deadend to W. Michigan Ave
- B. California Ave: Fraternity Village Drive to W. Michigan Ave
- C. Harrison St: E. Michigan Ave to Harrison Ct.

- D. Park St: Howard St to Crosstown Pkwy
- E. Berkshire Drive: Eldridge Dr to Eldridge Dr
- F. Springmont Ave: Barnard Ave to Oakland Dr

6. Traffic Restrictions and Construction Requirements.

A. All work shall be conducted during daytime hours unless otherwise specified herein or approved by the Engineer. Night work may be permitted at the discretion of the Engineer. However, any additional cost for such work shall be borne by the Contractor.

B. Access for construction vehicles between the travel lanes and work areas will be restricted to specific locations. The number of access points and their locations will require the prior approval of the Engineer.

C. Undercuts or excavations immediately adjacent to active traffic lanes shall be restored to no less than a 1 on 4 slope at the end of each working period unless otherwise approved by the Engineer. Fencing shall be required to protect open trenches during non- working hours and shall be provided by the Contractor as part of the trenching item utilized.

D. Duration of driveway and alley closures shall be minimized. Contractor shall provide property owners with written notice a minimum of four (4) business days prior to the anticipated driveway and alley closure, and shall inform residents of the anticipated duration of the driveway or alley closure.

E. The Contractor shall maintain and coordinate daily waste pickup and deliveries to all business buildings affected by driveway, alley and road closures for this project.

F. Sidewalks or pathways in the project area shall be maintained at all times except in areas where sidewalk or pathway removal and replacement are ongoing. Sidewalk or pathways removed shall be replaced as soon as is feasibly possible.

G. Ingress and egress to all buildings and parking areas for pedestrians and vehicles shall be maintained.

H. Keep all side streets and alleys free of construction related materials, equipment, and activities to allow clear visibility and access to all properties and businesses.

I. Contractors, employees, and subcontractors shall not park vehicles or store equipment in areas that are needed for residential or adjacent commercial parking and at no time shall vehicles be parked or equipment stored on private property unless written permission is obtained from the property owner. Also, Contractors, employees and subcontractors shall not drive construction equipment of any kind on private property without written permission of the property owner.

J. Construction equipment and material storage shall not be allowed on top of existing areaways, pathways or sidewalks.

K. Street name signs shall be maintained within the construction area for the duration of the project. Street name signs shall be visible from all intersection corners. If the existing street name sign and support are to be removed, and there is no alternate support available, the Contractor shall erect a separate post & street name sign for this purpose. The cost for this work shall not be paid for separately but considered incidental to the pay items included for maintaining traffic.

L. Removing, obstructing, relocating or otherwise tampering with a regulatory traffic sign is prohibited unless approved by the Engineer and the City Traffic Safety Department. Where a conflict is foreseen or encountered, the sign(s) may be removed by the Contractor only upon installation of temporary signs(s) placed in accordance with the Michigan Manual of Uniform Traffic Control Devices (MMUTCD) at location(s) approved by the Engineer. Temporary signs shall be maintained by the Contractor until the existing permanent signs are reinstalled. The cost for this work shall be incidental to the pay items included for maintaining traffic.

7. Traffic Control Devices.

A. General

- i. All traffic control devices and their usage shall conform to the most current revision of Part 6 of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD).
- ii. During non-working periods, any work site with uncompleted work shall have advance signs (W21-4 - "Road Work Ahead") and plastic drums, at specific locations, as directed by the Engineer.

B. Temporary Signs

- i. Tables for "L", "D" and "B" values are provided in MDOT Traffic and Safety Figure M0020a.
- ii. Temporary signs shall be on ground driven sign supports as shown in MDOT Traffic and Safety Figure WZD-100-A.
- iii. The signing for a one or two lane closure and traffic shift shall be as shown in the MDOT Traffic and Safety Figure M0240a and M0120a..
- iv. All diamond-shaped warning signs shall be 48 inch x 48 inch mounted at a 7 foot minimum bottom height in curbed or pedestrian areas.
- v. Distances between construction warning, regulatory and guide signs shown on the Figures are approximate and may require field adjustment, as directed by the Engineer.
- vi. All temporary signs shall be constructed with legends and symbols flush to the sign face and not extending beyond the sign borders or edges.

vii. All temporary signs shall be faced with prismatic retroreflective sheeting.

viii. If necessary, the City will provide temporary neighborhood business signage (sign board only) for the purpose of directing the public to the various businesses within the Construction area. The Contractor shall be responsible for the installation, maintenance, and relocation of these signs as necessary to coincide with the various phases of the project. If included in the contract, the cost to install, maintain, and relocate these signs will be paid for under the item "Install and Maintain Temporary Neighborhood Business Signs".

ix. Whenever a lane or obstruction is removed, all related construction signs shall be removed, turned away from traffic or otherwise made not visible to traffic.

C. Channelizing Devices

- i. Channeling devices required for maintaining one lane of traffic in each direction shall be Channelizing Device, 42 inch.

e. Measurement and Payment. The completed work shall be paid for at the contract unit price which shall include all materials, equipment and labor required to complete this work. Pay items are listed in the contract and invitation for bid documents.

CITY OF KALAMAZOO

SPECIAL PROVISION

FOR

PAVT, REM, MODIFIED

COK

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1/18/2023

a. Description. This work consists of removing HMA, concrete, bricks and masonry and any other common pavement material or combination of materials, except sand and gravel, regardless of thickness, reinforcement and overlays.

b. Materials. None Specified

c. Construction Methods. Remove pavement to an existing joint or sawed joint. Saw cut pavement full depth in a straight neat line as directed by the Engineer. Do not use a crane and ball pavement breaker. Do not disturb remaining pavement. Assume ownership of removed materials and dispose of according to subsection 205.03P.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Contract Item (Pay Item)

Pay Unit

Pavt, Rem, Modified.....SYD

The limits of Pavt, Rem, Modified will be established as noted on the plans or at the discretion of the Engineer. The unit price includes all labor, equipment, and materials to saw cut, remove, haul and dispose of the pavement.

CITY OF KALAMAZOO

SPECIAL PROVISION

FOR

PROGRESS CLAUSE

COK

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1/18/2023

- a.** The Contractor shall submit a complete, detailed and signed, Progress Schedule, to the Engineer, utilizing MDOT form number 1130.
- b.** The progress schedule shall include, at a minimum, the controlling work items for the completion of the project and the planned dates of the work items that will be the controlling operations. All contract dates including open to traffic, project completion, interim completion and any other controlling dates in the contract must be included in the progress schedule.
- c.** After receiving Notice of Award, start work **within 10 calendar days after award** or on a date approved by the Engineer. In no case, may any work be commenced prior to receipt of formal notice of award by the City.
- d.** The project must be open to traffic, including final site restoration, permanent pavement markings and signs, punch-list, and/or project clean-up on or before **October 1, 2023**.
- e.** After award, and prior to the start of work, the Contractor must attend a preconstruction meeting with the Engineer. The Engineer will determine the day, time and place for the preconstruction meeting. The meeting will be conducted after project award and may be rescheduled if there are delays in the award of the project. The named subcontractor(s) for, Designated and/or Specialty Items, as shown in the proposal, is/are recommended to be at the preconstruction meeting if such items materially affect the work schedule.
- f.** Liquidated Damages shall be assessed in accordance with Section 108.10 of the MDOT Standard Specifications for Construction.
- g.** The Contractor may be required to meet for a post-construction review meeting, as directed by the Engineer. The Engineer will schedule the meeting.
- h.** Failure on the part of the Contractor to carry out the provisions of this Progress Clause may be considered sufficient cause to prevent bidding future projects with the City.

CITY OF KALAMAZOO

SPECIAL PROVISION

FOR

RELATIONS AND RESPONSIBILITY TO THE PUBLIC

COK

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1/18/2023

- a. Description.** The contractor shall notify the engineer when the first day of construction is planned no less than 10 business days prior to the start of the work. Following this correspondence, the City will issue a press release, media notice or other general form of notification to all the city's residents of the planned work. No work shall be performed prior to the issuance of this notice.

Additional notification shall be provided to the residents directly affected via door hanger notices no less than 72 hours before their street is planned to receive work. The contractor will provide preprinted door hanger material to carry the contractor's message. Message content must be approved by the engineer prior to printing and distribution. The responsibility for filling out the door hangers and distributing them will be the contractor's. Payment for this work will not be paid separately, but payment will be considered as having been included in the contract unit prices bid for other contract items. No work shall be performed prior to the distribution of these door hangers.

24 hours before every construction operation that will substantially affect a resident or business adjacent to the project site, (such as driveway closures, mailbox relocation, etc.) the contractor will notify residents or businesses affected. The contractor shall assist the City in coordination of work and mitigating impacts to the extent possible while maintaining construction schedules and ensuring project completion.

CITY OF KALAMAZOO

SPECIAL PROVISION

FOR

SIDEWALK

COK

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1/18/2023

DESCRIPTION

This work shall consist of removing old sidewalk, forming for new sidewalk, and placing new sidewalk sections in the specified locations to include ramps and any curb and gutter. MDOT standard plan R-28, R-29, and R-30 Series are the standard for sidewalk and curb and gutter within the City of Kalamazoo and are supplemented with the addition of City of Kalamazoo standard plans. City of Kalamazoo standard plans give specific information regarding tree root preservation and sidewalk enhancement for dealing with tree roots and obstructions in the sidewalk path. All detectable warning plates shall be in Colonial Red and conform to MDOT and ADA standards.

CONSTRUCTION

Construct sidewalk and ramps according to section 803 of the Standard Specifications for Construction and Standard Plan R-28 and R-29 Series. Install detectable warning surfaces, (new or retrofit) according to the manufacturer's instructions and Standard Plan R-28 and R-29 Series.

When replacing gutters in addition to sidewalk ramps, transition the gutter cross section in advance of the sidewalk ramp to meet the dimensions and profile in Standard Plan R-28 and R-29 Series.

Before removing marked sidewalk inspect the area for removal. If removal area has tree roots in the sidewalk path or roots have caused upheaval of the sidewalk due to root growth note the area and exercise caution to leave root(s) undamaged during sidewalk removal. Roots shall not be cut/torn without prior approval of the engineer or forestry supervisor. Area marked for removal shall be enough in either direction to allow for a maximum running slope of 8.33% and cross slope of 2% to meet ADA standards and avoid needing to cut or damage the root(s). City of Kalamazoo standard plans shall be followed to avoid root damage and preserve tree health within the city. Reinforced concrete sidewalk or meandering sidewalk (where ROW is established) should be used for tree root heave locations as marked out by the engineer and shall conform to the City of Kalamazoo standard plan(s) for "Root Avoidance w/ Reinforcement" or "Meandering Sidewalk Root Avoidance" to the extent practicable. Otherwise the standard plan for "Root Avoidance w/o Reinforcement" shall be followed.

MEASUREMENT AND PAYMENT

The completed work as measured for Sidewalk and will be paid for at the following contract items/pay items. The price shall be payment in full for furnishing all necessary labor, equipment, and materials. Reinforced sidewalk over tree roots shall use the pay items of Reinforcement Steel, Geotextile Separator, and the appropriate sidewalk as shown on standard plans.

<u>Pay Item</u>	<u>Pay Unit</u>
Curb and Gutter, Conc, Det C4	Ft
Sidewalk Ramp	Sft
Detectable Warning Surface	Ft
Sidewalk, Conc, 4 inch	Sft
Sidewalk, Conc, 6 inch	Sft
Geotextile Separator	Syd
Reinforcement Steel	Lb

CITY OF KALAMAZOO

SPECIAL PROVISION

FOR

CURB AND GUTTER, REM, SPECIAL

COK

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1/18/2023

- a. Description:** Work for the item of Removing Curb and Gutter - Special shall consist of the removal of the existing variable width curb and gutter to a neat clean line to facilitate the placement of new concrete curb and gutter.
- b. Construction Methods:** The existing pavement shall be saw cut full depth at a distance of one (1) foot from the existing edge of pavement prior to the removal of the existing curb and gutter. Once the pavement has been cut, the existing curb and gutter and adjacent one (1) foot of pavement will be removed. Care will be taken not to disturb the pavement that is to remain in place.

Removed section of roadway shall be restored per City standard detail following placement of new curb & gutter. Replace pavement adjacent to the new Curb and Gutter and use 6-inch Nonreinforced Concrete Base Course for the base. Roadway should be restored with the proper lifts of HMA on top of the concrete base according to the COK Standard Details.

- c. Measurement and Payment:** Removing Curb and Gutter - Special shall be paid at the unit cost per lineal foot. Measurement will be made along the edge of pavement prior to removal. All work involved including saw cutting, removal and disposal shall be included in the unit price.

<u>Pay Item</u>	<u>Unit</u>
Curb and Gutter, Rem, Special	Foot
Conc Base Cse, Nonreinf, 6-inch	Syd
Hand Patching, HMA	Ton

CITY OF KALAMAZOO

SPECIAL PROVISION

FOR

SURFACE RESTORATION

COK

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1/18/2023

a. Description. This work shall be done in accordance with the City of Kalamazoo Standards. The requirements of the special provision include a one-year warranty period from date of final inspection performed by the City of Kalamazoo or its designated representative.

b. Materials. The materials and application rates specified in Sections 816 and 917 of the Michigan Department of Transportation Standard Specifications for Construction apply unless modified by this special provision or otherwise directed by the Engineer.

Materials included in Surface Restoration:

1. Topsoil Surface, Furn, 3 inch
2. Fertilizer, Chemical Nutrient, Cl A (12-12-12)
3. Seeding, Mixture THM
4. Paper mulch shall be used for hydroseeding
5. Mulch Blanket
6. Water, Sodding/Seeding/Hydroseeding
7. Tackifier shall be MDOT approved from the QPL
8. The hydro-seeding slurry shall consist of a mixture of the following materials:
 - Mulch: 2,000lbs./acre
 - Fertilizer: 400lbs./acre
 - Tackifier: 25lbs./acre
 - Seed: 220lbs./acre
 - Water: As required

c. Construction Methods. Prior to placing topsoil, shape and compact all areas to be seeded and hydroseeded. Place topsoil to the minimum depth indicated above, to meet proposed finished grade. If the area being restored requires more than the minimum depth of topsoil to meet finished grade, this additional depth may be filled with approved excavated material. Furnishing and placing this additional material is included in Station Grading road sections or is incidental in patching sections.

In areas of hydroseeding, the Contractor shall protect site features from over spray. These features shall include, but not be limited to, fire hydrants, mailboxes (including posts), private properties, sidewalks, driveways, pavements or other surfaces that the Engineer may designate as needing to be protected from the hydroseeding operation. Where directed by the Engineer, the Contractor will be responsible to remove all unwanted or unintended overspray. The cost for this work will be the sole responsibility of the Contractor.

Areas within existing and proposed drainage channels shall be restored using mulch blankets with appropriate anchors as recommended by the manufacturer. All other areas shall be restored using mulch. Mulch shall be bladed into the prepared earth to provide proper anchoring.

If a restored area washes out after this work has been properly completed and approved by the Engineer, make the required corrections to prevent future washouts and replace the topsoil, fertilizer, seed and mulch. This replacement shall be paid for as additional work. If an area washes out for reasons attributable to the Contractor's activity or failure to take proper precautions, replacement shall be at the Contractor's expense.

All areas disturbed by the Contractor and/or their Subcontractors beyond the normal construction limits of this project shall be restored as directed by the Engineer. No additional payment or compensation will be allowed for this activity.

By October 15, only those areas for which work for Surface Restoration has already begun shall be completed. After October 15, any remaining areas shall be graded and covered by mulch blanket, temporary seeding and restored the following April 15, or as soon as weather permits.

The Contractor shall establish a dense lawn of permanent grasses, free from lumps and depressions or any bare spots, none of which is larger than one foot of area up to a maximum of 3% of the total seeded lawn area. Any part of the seeded lawn that fails to show a uniform germination shall be reseeded until a dense grass cover is established.

Repair, rework, re-seed all areas that have washed out, are eroded, or do not catch

- d. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Contract Item (Pay Item)

Pay Unit

Surface Restoration, Modified.....SYD

Surface Restoration will be measured in place. Payment for Surface Restoration shall include all materials, equipment, and labor required to complete the work as described.

CITY OF KALAMAZOO

SPECIAL PROVISION

FOR

Tree Trimming & Brush Removal

COK

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1/18/2023

DESCRIPTION

This work shall consist of trimming tree limbs, bushes and brush away from City sidewalks to enable pedestrians to have a clear walkway.

CONSTRUCTION

Tree limbs, brush, or bushes extending into or existing within the City ROW and encroaching on City sidewalk shall be trimmed back to the outer edge of the sidewalk and allowing for 8ft of clearance underneath. The sidewalk area shall be cleared of vegetative obstructions for the full width and up to a height of 8ft above the sidewalk pavement.

Proper pruning shears, trimming saw, hedge pruners, or other Engineer approved tools shall be used to remove the encroaching material. Hatchets, axes, other “chopping” type tools shall not be used.

The contractor shall not prune, trim, or otherwise alter a City tree*. Instead, the contractor shall notify the Engineer who will inform the proper City department to come have the tree pruned or trimmed to the proper height and width.

NOTICE TO RESIDENTS

The contractor shall notify residents of any planned trimming operations a minimum of two (2) weeks prior to the start of trimming operations. This allows the resident time to trim encroaching material by their own means or methods. The contractor shall not start trimming operations prior to the date provided on the notices.

MEASUREMENT AND PAYMENT

The completed work as measured for Tree Trimming & Brush Removal and will be paid for at the following contract item/pay item.

Pay Item

_Tree Trimming & Brush Removal

Pay Unit

Foot

*A City Tree is defined as: a tree within the City right-of-way which is considered a part of City ROW property and is cared for and maintained by the City Forester and Forestry crews.

CITY OF KALAMAZOO

SPECIAL PROVISION

FOR

UTILITY COORDINATION

COK

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The Contractor shall cooperate and coordinate construction activities with the owners of utilities as stated in section 104.08 of the MDOT Standard Specifications for Construction. In addition, for the protection of underground utilities, the Contractor shall follow the requirements in Section 107.12 of the MDOT Standard Specifications for Construction. Contractor delay claims resulting from a utility, will be determined based upon Section 109.05 of the MDOT Standard Specifications for Construction.

For protection of underground utilities in conformance with Public Act 53, the Contractor shall dial 1-800-482-7171 or 811 a minimum of three (3) full working days, excluding Saturdays, Sundays and holidays, prior to beginning each excavation in areas where public utilities have not been previously located. Members will thus be routinely notified. This does not relieve the Contractor of the responsibility of notifying utility owners who may not be a part of the "MISS dig" alert system.

PUBLIC UTILITIES

The following Public Utilities have facilities located within the Right-of-Way:

Name of Owner	Kind of Utility
Consumers Energy 2500 East Cork Street Kalamazoo, MI 49001	Electric Natural Gas
AT&T 2919 Millcork Street Kalamazoo, MI 49001	Telephone
Charter Communications 4176 Commercial Avenue Portage MI 49002	Cable
Comcast 5047 W Main Street Kalamazoo, MI 49009	Cable
CTS Telecom 13800 East Michigan Avenue Galesburg, MI 49053	Fiber
Midwest Fiber 6070 North Flint Road Glendale, WI 53209	Fiber

Western Michigan University
1903 W. Michigan Avenue
Kalamazoo, MI 49008

University

City of Kalamazoo
Public Utilities Department
415 Stockbridge Avenue
Kalamazoo, MI 49001

Water
Sanitary Sewer
Storm Sewer
City Fiber