

## NOTICE TO ARCHITECTS, ENGINEERS, AND PLANNERS

NOTICE IS HEREBY GIVEN, that the City of Oklahoma City has a certain Capital Improvement project that requires the services of a consulting firm.

In order to be considered, the Consultant must comply with the Resolution establishing procedure for "Selection of Architects, Engineers, and Planners" adopted by the City Council on November 18, 1986, a copy of which may be obtained at <https://www.okc.gov/departments/public-works/engineer-architect-resources/notice-to-a-e> or from the office of the Public Works Department Director.

The Project is as follows: **MP-0545**, Trail Wayfinding and Signage for Oklahoma City Trails.

Scope of Work: This project will prepare construction drawings and specifications to implement the design concepts of the Trail Wayfinding and Signage for the Oklahoma City trails using the Council approved Trail Wayfinding Design Intent Document. Bid Documents may include standard construction details, and provide for construction in phases. The design may also be incorporated into future trail plans designed by others.

A Trail Wayfinding Master Plan has been approved by Oklahoma City Council. Refer to the Plan located with the advertisement located on <http://okc.gov/departments/public-works/engineer-architect-resources/notice-to-a-e>.

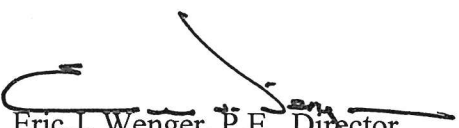
Estimated Construction Cost \$2,700,000

As a part of your Letter of Interest, please provide your understanding of the project and your expertise and experience on similar projects.

Refer to the basic contract located on <http://okc.gov/departments/public-works/engineer-architect-resources/notice-to-a-e>. All contracts with the City or its related Trusts use this contract. Please review the contract to ensure insurance and indemnity requirements will be met.

***Please include a 254 Form with your Letter of Interest.***

Time Schedule for the above project: Final Plans and Specifications in sixty (60) days of the issuance of the Work Orders. Last date for submitting Letter of Interest (**two copies of letter and all attachments and an electronic copy**) to the Public Works Department Director, 420 W. Main Street, Suite 700, Oklahoma City, OK 73102: prior to 5:00 p.m. August 23, 2018. Emailed submittals are not being accepted at this time.



Eric J. Wenger, P.E., Director  
Public Works/City Engineer



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)  
***Trail Wayfinding Sign Standard Manual***

*December 05, 2014*

*Prepared by:*



**AECOM**

# Specifications

## 1 INTRODUCTION AND PROJECT DESCRIPTION

### 1.0 INCLUSIONS

This work shall include all labor, materials and equipment necessary for the proper execution and completion of said work, as shown on the plans and as herein specified. It shall also include all work not specifically included in the Design Intent Documents which is properly inferable and necessary for the completion of this work.

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including Special Conditions, apply to this Section.

### 1.2 SUMMARY OF WORK INCLUDED

A. Sign Fabrication: Types of signs, messages, and graphics are indicated on the Drawings and herein, and require various materials, finishes, illumination and fabrication and installation techniques.

B. Submit shop drawings, layouts, samples, and mock-ups for Owner approval.

C. Structural design and wind-load calculations for all signs and foundations mounted and/or suspended signage to confirm structural integrity of the designed support connection. All structural connections will require certification by an Engineer licensed in project state. The drawings are diagrammatic and indicate the aesthetic of "design intent" only. Details shown are intended as a guide for the interfacing of adjacent surfaces.

D. Installation of all fabricated signs, including all fasteners and fastenings and related electrical and data connections.

E. Coordination with all trades of this Contract required for the fabrication and installation of the signage, including the approvals by the Owner required in this Section. Fabrication and installation of the Work shall be done in accordance with municipal code requirements.

F. Coordination and verification of all messages with Owner. Architect/Designer will provide complete set of sign location plans with sample numbering system and electronic message schedule template for fabricator to complete sign message schedule for submission and approval by the Owner.

G. Verification of all conditions and sign dimensions in the field. Sign Fabricator to coordinate all signage requirements with the architectural, structural, lighting, electrical, and telecommunications drawings to ensure that all proposed signs can be installed, with power and required data connections and structurally supported. Verification of conditions and sign dimensions to be completed prior to sign fabrication and approval of all required submittals.

## 2 REQUIREMENTS

Details on Drawings indicate a design approach for sign fabrication but do not include all fabricating details required for the complete structural integrity of the signs, including consideration for static, dynamic, and erection loads during handling, erecting, and service at the installed locations. Therefore, it shall be the responsibility of the Fabricator to perform the complete structural design of the signs and to incorporate all the reasonable safety factors necessary to protect the Owner and their representatives, against public liability. Contractor will submit engineered "shop drawings" to the client/clients representative for review and approval by the Owner. Signs must meet all applicable local codes, as well as testing laboratory listings where required.

### 2.1 SHOP DRAWINGS

The Drawings presented for bid are not fabrication drawings. The Signage Contractor is expected to provide all details necessary to effectively explain and specify the fabrication process and the expected performance of the installed product. The Signage Contractor must demonstrate through details and specifications their complete understanding of the desired final product and the method/process by which they are producing said product. The Signage Contractor is responsible to field measure and verify with architectural drawings prior to submitting Shop Drawings. Repackaging the supplied Drawings with new title blocks and delivering them as submittals will not be accepted. Although art may be supplied electronically, Signage Contractors will not be required to create all graphic content from scratch but to demonstrate and verify the quality and accuracy of the delivered product.

A. The graphics and drawings represent the design intent for the signs required for the Project. The Sign Fabricator is responsible for the proper engineering of all elements of the Work and where applicable, to include a set of wet stamped, signed engineering calculations by a licensed Structural Engineer from the project's state. The internal structure, dimensions, and specifications for all items shall be indicated in the shop drawings.

B. Description: Provide shop drawings for all items including, but not limited to the following: Complete fabrication and installation drawings for each sign type. Indicate dimensions, materials, finishes, fastening, anchorage, joining, sealing, backing, utility requirements, rough-in, and adjacent related site conditions. Fabricator is responsible to document final connections for all power and data cabling.

### 2.2 SUBMITTALS

Procedure: Prepare submittals in accordance with the requirements of the Special Conditions, and to include the following:

A. Notes on Drawings shall clearly define any actions requiring review by the Owner or owner's representative.

B. First article of production-run items, both large and small, will be reviewed by the Owner or owner's representative before production run is commenced.

C. It shall be the responsibility of the Contractor to schedule all review meetings with the Owner or owner's representative.

D. Submit physical samples of sufficient size and quantity to illustrate materials, finishes, equipment or workmanship, and to establish standards by which completed work will be judged. Samples must represent the functional characteristics of the product or material, with integrally related parts and attachment devices, colors, and finishes.

E. Shop drawings including structural design and wind-load calculations for all signs and foundations mounted and/or suspended signage to confirm structural integrity of the designed support connection. All structural connections will require certification by a licensed structural engineer.

F. Required samples for review: First article mock-ups/samples of entire sign types of ALL sign types indicated in the design intent drawing set.

G. Full 101mm x 101mm (4 inch x 4 inch) set of all specified paint colors and finishes.

H. Complete, full-size message in each typeface to demonstrate proper spacing (black text on white background: outline not accepted).

I. Each type of metal used for major elements of work with respective finish.

J. Each type of adhesive vinyl film, including computer-cut designs, shown full-size on each of the specified ground colors.



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: NTS

Note: Drawing scale shown on plans is accurate for full size plans only. AECOM is not responsible for scale discrepancies caused by reduced or enlarged site plans.

Description: Sign Standards Manual

Original Issue Date: 14.12.05

Revision:

Signature/Seal:

**DRAFT**  
NOT FOR BIDDING OR CONSTRUCTION

These drawings express visual design intent only. Final engineering, materials, and fabrication shall remain the responsibility of the fabricator.

The content of this document is subject to the design intent requirements outlined in the specifications.

Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: JMM  
SPC  
AEO  
NLC

Drawn by: AEO

- K. Mock-ups as scheduled in this section. Approved mock-ups can be used as part of the completed work.
- L. Project schedule
- M. Supplementary Product Literature: Submit for information. Furnish within seven (7) days of request, manufacturer's literature describing the general properties of each product to be used in the Work.

2.3 QUALITY ASSURANCE

- A. Provide a mock-up (partial for large signs; complete for smaller signs) of each sign type requested at the fabrication facility for review. The requested Sign types are shown on the drawings. Refer to the drawings for further information. Mock-ups once approved may be used towards final install count.
- B. Utilize the same materials and installation methods in the mock-up as intended for the final Work. Schedule the installation so that the mock-up may be examined, and any necessary adjustments made, prior to commencing fabrication of the final Work. Replace unsatisfactory items as directed.
- C. When accepted, mock-up shall serve as the standard for materials, workmanship, and appearance for the work throughout the project.

Work-In-Progress Approvals: Provide work-in-progress sign elements reviews. Scheduled or unscheduled viewings at the Fabrication Facility may be initiated by the Owner's Representative as deemed necessary to ensure continued quality control and make any adjustments required during fabrication. Unsatisfactory items are to be corrected by the Signage Contractor as directed by the Owner or owner's representative.

Regulatory Requirements: Comply with applicable requirements of the Applicable Laws and Authorities. Obtain necessary approvals and permits from all such Authorities as required.

- Markings and Labels:
- A. Locate markings, labels, manufacturer names and other identifications so as to be concealed from public view and as acceptable by the Owner's Representative.
  - B. No trade name or other identification shall appear on any item where it will be seen by the public except as specifically approved by the Owner's Representative in advance.

- Final Location of Signs:
- A. The location of signs as shown on the Location Plans is for general reference only and in some cases is not representative of the exact final location. Final locations of Signs shall be field located in coordination with the Owner's Representative.
  - B. Signage Contractor shall arrange for meetings at the Project to accommodate direction of final locations according to Project Construction Schedule.

- Lettering:
- A. The contractor shall be responsible for the quality control of all lettering. All letterforms shall be crisp, sharp, free of nicks, ragged edges and discontinuous curves. All lettering shall conform to approved typeface, weight and letter spacing. No substitutions of typeface foundry, brand or version or implementation technique will be accepted without prior approval.

- B. Vinyl Die Cut Graphics: All camera-ready artwork shall be scanned for cutting on a Gerber Sign Maker II or approved equal.
- C. All cutting and routing shall be executed in such a manner that all edges and corners of finished letterforms are true and clean. Letterforms with rounded positive or negative corners, nicked, cut, or ragged edges, etc., will not be accepted. All letterforms shall be so aligned as to maintain a baseline parallel to the sign format. Margins must be maintained as specified in drawings.

- D. All Work under the Agreement shall be performed by skilled craftsmen under supervision of trained foremen, experienced in the trade of craft required to accomplish the Work and produce a product of high quality.
- E. All letters specified as vinyl and or painted finish shall be produced as indicated in the bid documents and substitutions will not be accepted without owners or owner's representative approval.

- High Quality of Workmanship:
- A. The Contractor shall be responsible for the high quality of all materials and workmanship required for the execution of the project including materials and workmanship of any firm or individual who act as Signage Contractor's Sub-Contractor.

- B. Signage Contractor shall be responsible for providing up-to-date drawings, specifications, graphic schedule, etc., to all sub-contractors.

- Dimensions
- A. Written dimensions on drawings shall have precedence over scaled dimensions.
  - B. Signage Contractor shall verify and be responsible for all dimensions and conditions shown by these drawings. Shop details must be approved by the Owner's Representative prior to fabrication.

Discrepancies  
Signage Contractor shall notify the Owner's Representative of any discrepancies in the Drawings, Sign Location Plan or Sign Message Schedule, in field dimensions or conditions and/or changes required in construction details.

- 2.4 GRAPHICS/ARTWORK  
Owner or owner's representative to provide contractor artwork on: CD-Rom, DVD or via electronic file transfer; Adobe Illustrator 11.0 for graphic layouts included in the drawings.

- 2.5 WARRANTY  
Submit to the Owner's Representative a 1-year written warranty (effective the date of final acceptance) covering all signs contractor will agree to repair or replace defective signs. Upon notification of such defective signs within the warranty period, make necessary repairs or replacement at the convenience of the Owner's Representative.

Paint Finish Warranty  
Submit to the Owner's Representative a 1 year written warranty, warranting that the factory-applied finishes will not develop excessive fading or excessive non uniformity of color or shade, and will not crack, peel, pit, corrode or otherwise fail as a result of defects in materials or workmanship within the following defined limits. Upon notification of such defects within the warranty period, make necessary repairs or replacement at the convenience of the owner's representative.

Definitions:  
Excessive Fading - A change in appearance which is perceptible and objectionable as determined when visually compared with the original color range standards.

Excessive Non-Uniformity - Non-uniform fading to the extent that adjacent panels have a color difference greater than the original acceptable range of color.

Will Not Pit or Otherwise Corrode - No pitting or other type of corrosion, discernible from a distance of 3m (10 feet), resulting from the natural elements in the atmosphere at the project site.

- 2.6 MAINTENANCE
- A. Contractor shall prepare a Maintenance and Operating Manual comprised of cleaning and operations needs for each sign type. This shall include information on repair due to common vandalism, changing of messages and parts replacement needs.
  - B. Submit four (4) copies of Maintenance and Operating Manuals to the Owner's Representative and 1 digital copy.



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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City of Oklahoma City  
Parks and Recreation Dept.

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Description: Sign Standards Manual

Original Issue Date: 14.12.05

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AEO  
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Drawn by: AEO

- C. Furnish complete manuals describing the materials, devices and procedures to be followed in operating, cleaning and maintaining the work. Include manufacturers' brochures and parts lists describing the actual materials used in the work, including metal alloys, finishes, electrical components and other major components.
- D. Assemble manuals for component parts into single binders identified for each system.

2.7 FABRICATION

- A. Signage shall be complete for proper installation as described in the drawings.
- B. Finish work shall be firm, well anchored, in true alignment, properly squared, with smooth clean uniform appearance, without holes, cracks, discoloration, distortion, stains, or marks.
- C. Construct all work to eliminate burrs, dents, cutting edges, and sharp corners.
- D. Finish welds on exposed surfaces to be imperceptible in the finished work.
- E. Except as indicated or directed otherwise, finish all surfaces smooth.
- F. Surfaces, which are intended to be flat, shall be without dents, bulges, oil canning, gaps, or other physical deformities.
- G. Surfaces, which are intended to be curved, shall be smoothly free-flowing to required shapes.
- H. Except where approved otherwise by Owner, conceal all fasteners.
- I. Make access panels tight-fitting, light proof, and flush with adjacent surfaces.
- J. Conceal all identification labels.
- K. Carefully follow manufacturer's recommended fabricating procedures regarding expansion or contraction, fastening, and restraining of acrylic plastic.
- L. Exercise care to ensure that painted, polished, and plated surfaces are unblemished in the finished work.

- M. Isolate dissimilar materials. Exercise particular care to isolate nonferrous metals from ferrous metals.
- N. All illumination shall be even and without hot spots.
- O. Ease all exposed metal edges.
- P. Provide miscellaneous metal items required for completion of the work even though not shown or specified.
- Q. Refer to Drawings for sign color specifications.
- R. Paint finishes shall be Matthews Acrylic Polyurethane with Matthews Primers and Metal Pre-Treatments or Owner approved equal.
- S. Shop painting to be uniform on and around all sign elements to ensure sign elements will withstand all weather conditions.
- T. Mounting: Mounting plates shall be in conformance with manufacturer's written recommendations.

2.8 MATERIALS

- A. Aluminum shall be suitable for ornamental, architectural work. Surface finish shall be smooth, free of extrusion marks or imperfections. Alloy shall be selected to meet the structural requirements of the specific application.
- B. Stainless steel shall be suitable for ornamental and architectural work. Surface finish shall be smooth, free of all extrusion marks or imperfections. Alloy shall be selected to meet the structural requirements of specific application. Structural metal for concealed framing shall be of galvanized rolled steel or equal as required to satisfy structural requirements.
- C. Aluminum exterior cabinets, spacers, back plates and frames shall be constructed from 6mm (.25 inch) aluminum, #4 horizontal brushed and clear anodized finishes, unless otherwise specified on Drawings.

- D. Aluminum interior plaques shall be constructed from 3mm (0.125 inch) aluminum, #4 horizontal brushed finish with semi-gloss linear polyurethane clear coat, unless otherwise specified on Drawings.
- E. Aluminum interior fabricated components shall be constructed from 3mm (0.125 inch) thickness aluminum sheet unless otherwise indicated.
- F. Adhesive used for installing signs shall be manufactured by Dow Corning or equal. Polyfoam or "Isotac" contact adhesive tape manufactured by 3M shall be used in conjunction with silicone adhesives for installation of wall signs, in minimum thicknesses available.
- G. Concrete installation of anchoring devices into concrete slab shall be adjusted to avoid penetrating existing reinforcing conduit, etc. contained in the concrete slab. Coordinate with the Project Architect and Structural Engineer.
- H. Stainless steel shall be suitable for ornamental and architectural work. Surface finish shall be smooth, free of all extrusion marks or imperfections. Alloy shall be selected to meet the structural requirements of specific application. Structural metal for concealed framing shall be of galvanized rolled steel or equal as required to satisfy structural requirements.
- I. Acrylic intended for non-illuminated use shall be 6mm (0.25 inch) cast acrylic sheet with non-glare finish, unless otherwise specified on Drawings. Acrylic intended for edge-illuminated use shall be 10mm (0.5 inch) extruded acrylic sheet with embedded diffuser particles designed specifically for edge-lighting, unless otherwise specified on Drawings.

- J. Use Plexiglas II as manufactured by Rohm and Haas Co., or equal quality. Thickness shall be as indicated on Drawings or not less than 3mm (0.125 inch) thick. Signage Contractor shall provide color and finish samples of all plastics for approval before fabrication; no substitution in color, thickness, or finish of plastics will be accepted without written approval from the Owner's Representative. All plastics shall be of uniform color, translucence and illumination, as supplied by manufacturer. Any exposed edges of acrylic shall be finished so as no saw marks are visible.
- K. Bolts, nuts, screws, washers, anchors and other devices required to complete the work. Signage Contractor shall use the same basic metal or alloy as the metal fastened, and finish matching in color and texture. Use stainless steel 300 series alloy where used to join dissimilar materials.
- L. All exposed fasteners to be 3mm (0.125 inch) tamper proof stainless steel screws painted to match adjoining surfaces unless otherwise specified on drawings.
- M. Pin-mount supports shall be painted threaded rods as appropriate.
- N. Insulation /Material Isolation: Separate all ferrous and non-ferrous metals with non-conductive gaskets to prevent electrolysis. In addition to gaskets, provide stainless steel fasteners for some cases as required.
- O. Applied interior vinyl graphics to be High Performance Cast Vinyl Sheeting, unless otherwise specified on Drawings. Applied exterior vinyl graphics shall be High Performance Reflective Vinyl Sheeting, unless otherwise specified on Drawings.



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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City of Oklahoma City  
Parks and Recreation Dept.

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- P. Dissimilar Materials: Where metal surfaces will be in contact with dissimilar materials, coat the surfaces with epoxy paint or plate with zinc chromate, or provide other means of dielectric separation as recommended by manufacturer to prevent galvanic corrosion (i.e. Neoprene gasket as an isolation membrane)
- Q. Castings: Exposed surfaces shall be uniformly free from porosity and roughness. Edges shall be filled and ground smooth. Faces shall be chemically etched and mechanically polished for specified finish.
- R. Galvanizing: Provide for steel components in exterior construction, and where noted in Drawings shall be galvanized. Complete the shop fabrication prior to application of the zinc coating. Remove mill scale and rust, clean and pickle the units as required for proper pretreatment of the surfaces.
- S. Hardware: Provide all incidental hardware necessary for the proper functioning of signs. External hardware shall conform to the external appearance of the sign.
- T. Supports and Backing in Walls: Contractor shall provide engineered sign supports anchored to building structure where required and to meet requirements of applicable building codes. Support or backing requiring installation within the building wall construction shall be immediately relayed to the Architect of Record and Owner's Representative for field coordination. Contractor shall meet with the Architect to review all requirements.

- B. Light Emitting Diode (LED) general lighting requirements:
  1. Provide sufficient LED wattage, quantities and spacing to ensure continuous, maximum illumination.
  2. Provide LED lighting prototypes to verify brightness and uniformity of lighting with designer.

**Electrical Wiring and Equipment**

- A. Provide and install electrical materials such as ballasts, transformers, lamps, sockets, neon units, connectors, and all other equipment which shall be new and shall be approved by Underwriters Laboratories, Inc. The assembly of all components within the illuminated signs shall conform to all standards of Underwriters Laboratories, Inc. as published in the latest edition of "Standards for Sign Safety" and all illuminated signs shall bear the U.L. label. All wiring and equipment shall be concealed within the Sign structure.
- B. Conduit and Devices: Provide Rigid steel conduit, junction boxes and associated devices in accordance with applicable codes as required.
- C. Wiring: Minimum #12 AWG copper shall be used. High tension wiring shall not be less than GTO 15 wire as manufactured by Carol Cable Company or approved equal. All wiring shall be AWM 90 0 centigrade 1000 volt TW/MTW U.L. file no. 18971. Wiring connectors for wire splicing shall be U.L. approved 1000 volt capacity and shall be Scotch Lock type Y or R or equal. All splices should be easily accessible for inspection and should be shown on Shop Drawings.
- D. Ballasts shall be used as required for internally illuminated cabinet signs, in quantity and arrangement as recommended by ballast manufacturer and accessible for maintenance and shown on Shop Drawings.

- E. Disconnect Switch: All Signs or Sign components with electrical service shall be equipped with an approved external disconnect switch, flush mounted on the cabinet / Sign, with circuits and capacity to control all primary wiring within the Sign. Location of switch must be shown on Shop Drawings and is subject to approval.
- F. Illumination: All Signs with fluorescent fixtures shall utilize minimum 800 milliamp T8 output cool white fluorescent lamps at the length and placement necessary to provide even illumination without light leaks. All Signs with LED light sources shall be built to perform as required by the Design Consultant's documentation. Signage Contractor shall provide any specification information required to verify performance. All lamps and ballasts shall be provided by the Signage Contractor. Signage Contractor shall provide waterproof flush access panel(s), which shall be concealed wherever possible. Conduit wiring and electrical equipment from the field electrical connection to any part of the sign and within the sign shall be provided by the Signage Contractor.
- G. Ventilation: While maintaining a proper weather seal, Signage Contractor shall provide for sufficient ventilation of Sign components to prevent overheating or warping; allowing for color of sign, mounting surface, climate conditions, etc. In providing for ventilation, Signage Contractor shall protect sign from elements (sand, rain, wind, debris, etc.) that might cause operational or cleaning problems. Signs / cabinets with light leaks will not be accepted. Signage Contractor shall utilize stainless steel bug mesh screen for integration with weep holes or vent / louvers on the Signs to prevent insect migration into illuminated Signs.
- H. Cooling System: Contractor shall provide air-conditioning as necessary for the digital kiosks to ensure temperature thresholds for monitors proper cooling based upon manufacturer specifications of all hardware elements.

- B. Powder coat shall be TGIC super polyester powder coat with a polymer undercoating. Shop painting shall be uniform on and around sign elements to ensure sign elements will withstand weather conditions.
- C. Acrylic Linear Polyurethane enamel: Matthews provides a wide variety of coating systems on a global basis. Specific regions have different branded names: U.S and Canada – Grip Guard or Grip Guard Base Coat, Europe and Asia – Dynacoat, and Global – Sikkens or Lesonal. The approved color system shall follow the products manufacturer specifications for mixing hardeners, reducers clear coats, etc. Contractor shall refer to the Matthews paint code when ordering the product. Matthews and client require the use of clearcoat over all basecoat systems for durability and warranty purposes. Clearcoat application per Matthews specifications shall be required on all painted surfaces.
- D. Painted Surfaces: Manufacturer shall apply a wet film coating of gloss or semi-gloss UV inhibited CLEAR COAT to assure color and finish stability. Manufacturer shall either sand a cured paint surface prior to application or apply wet-on-wet to assure positive bonding.
- E. Primer for Aluminum and Steel: Clean surface and remove all contaminates using approved Matthews wax and grease remover. Sand surface using P-120-P180 Grit dry for aluminum and P-80-P120 for steel. Re-apply wax and grease remover, wipe clean and let dry. Apply Matthews primer specific to technical data sheet from manufacturer.
- F. Metal Finishes: Remove scratches, abrasions, dents and other blemishes before applying finish. Apply the following to the fabricated Work, with texture and reflectivity as required to match the Architect's sample.

**2.9 ELECTRICAL COMPONENTS**

Electrical components must conform to applicable electrical codes and the following:

- A. All materials must be approved and listed by Underwriters Laboratories, Inc.

**2.10 FINISHING MATERIALS**

- A. Linear Polyurethane Coatings: Provide the following, or other products as acceptable.



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- G. Silk Screening Materials: Provide photo processed screening, arranged to furnish sharp and solid images without edge build up or bleeding of the coating. Pattern-cut screens may be used for non-repeat copy, provided that final image copy is equal to photo screen quality. Provide only weather-resistant coating materials, compatible with the intended substrates. All silk-screened graphics are to be done with the finest screen size feasible for sharp, even reproduction.
- H. Vinyl Die-Cut and Pattern Cut-out Graphics: Use Scotchcal Opaque and Translucent film manufactured by 3M where specified. Use pressure-sensitive, non-yellowing, non-peeling and weather resistant vinyl as specified. Use approved fonts and equipment as specified.

2.11 FABRICATION OF SIGNS AND SUPPORTS

- A. General: Provide custom manufactured sign assemblies, components completely fabricated and finished at factory before delivery to project. Construct to accurate detail and dimensions as shown and as review on approved Shop Drawings. Fit and assemble the Work at the shop and mark the components as required to facilitate assembly during installation. Exposed fasteners on finished faces will not be allowed, unless specifically indicated. Waviness and oil canning of surfaces is not acceptable. Minimum material thickness is to be 2.3mm (0.09 inches). Conceal wiring, conduct and other electrical items within sign enclosures.
- B. Lettering: Cut and rout in a manner to produce true and clean edges and corners of finished letterforms. Letterforms having rounded positive or negative corners, nicked, cut, or ragged edges are not acceptable. Align letter forms to maintain a baseline parallel to the sign format. Maintain margins as indicated on the Drawings.

- C. Seams and Joints: The contractor shall cut walls and floors carefully and neatly repair them in an acceptable manner. Contractor shall consult the Architect of Record in cases where cutting into a structural portion of the building is required so that satisfactory reinforcement may be provided. Added joints shall be ground filled and finished flush and smooth with adjacent work. Such seams shall be invisible after final finish has been applied. Spot welded joints shall not be visible on exterior of signs after final finish has been applied. No gaps, light leaks, waves, or oil canning will be permitted in work. If any of these are evident, the contractor will be required to correct its work or construct a new sign at its own expense.
- D. Metal Signs and Supports: Fabricate exposed surfaces uniformly flat and smooth, without distortion, pitting, or other blemishes. Form exposed metal edges to a smooth radius. Permanently bond the laminated metal components and honeycomb core with adhesive or sealant in accordance with product manufacturer's recommendations. Grind exposed welds and rough areas to make flush with adjacent smooth surfaces.
- E. Welding: Make welds continuous.
- F. Fasteners: Use exposed fasteners only if shown on the Bid Documents. Perform drilling and tapping at shop.
- G. Contractor shall confirm soils are compatible with foundation engineering requirements for compaction.
- H. Contractor shall be responsible for verification of any adjacent utility conflicts that might be disrupted or impacted by installation of foundations or installation of sign elements.

2.12 GRAPHIC APPLICATION

- A. Preparation: Surfaces to receive the graphic markings shall be clean, dry, and otherwise made ready for application of the materials. Accurately measure and lay out the required marking configurations as indicated on drawings.

- B. Vinyl Die-cut and Pattern-cut Graphics: Use pressure sensitive, non-yellowing, non-peeling and weather resistant vinyl adhesive letters or images, custom flood coated as required, die cut from specified vinyl manufacturing company. Apply in strict accordance with manufacturer's instructions. Make uniformly smooth and free from bubbles, wrinkles, stretching and blemishes.
- C. Painted or Silk-screened Graphics: All graphics shall be applied using photo processed screens from camera ready art, arranged to furnish sharp and solid images without build-up or bleeding of the coating. Comply with coating manufacturer's application instructions. Provide proper type of primer to suit each substrate and obtain a permanent bond. Verify compatibility of each substrate with the coatings to be used in the Work. Apply the markings with neat edges, minimum 3 mils (0.075 mm) dry film thickness and as required to obtain solid markings without voids.
- D. Digitally Printed Graphics: All digitally printed graphics to be executed from Owner/Designer approved art and to be produced at a high rate of resolution. Usage of substrate and ink types to be for the specific (interior or exterior) installation environment and to be applied in strict accordance with manufacturer's instructions.

3 EXECUTION

3.1 VERIFICATION OF CONDITIONS

- A. Inspect all surfaces to receive signage and report all defects which would interfere with signage installation.
- B. Starting work implies acceptance of surfaces as satisfactory
- C. Verify all conditions and sign dimensions in field. Contractor to review and study architectural, landscape, lighting, electrical and related plans to insure that all proposed signs can be installed and supported. Verification of conditions and sign dimensions to be completed prior to sign fabrication and reviewed with the architect.

3.2 INSTALLATION

- A. Install signage upon acceptance by the owner of material and substantial completion of job site area to receive such materials.
- B. Special Precautions: Guard against damaging existing pavements and planting where signage is to be installed.
- C. Footings beneath topping surface shall be installed and located prior to top surface installation.
- D. Prior to installation, check all components, nuts, bolts, and other connections for proper alignment, fit and any damage. Replace damaged or defective components.
- E. Prior to installation, confirm all electrical locations and requirements with the owner or owners representative.

3.3 CLEAN UP

- A. Keep areas of work clean, neat and orderly at all times. Clean surfaces, inside and out. Use approved cleaners if necessary to remove dirt.
- B. Protective coverings and strippable films shall be removed at a time that will afford the greatest protection of the furniture. Surfaces shall be cleaned to remove excess glazing and sealant compounds, dirt, and other substances.
- C. Upon completion of work and before final acceptance, remove tools, surplus materials, apparatus, and debris from the site. Leave the site in a neat, clean condition, acceptable to the Engineer. Wash, clean, and leave paved areas without stains.
- D. Contractor shall repair and/or replace all damaged surfaces with like materials. All new surfaces adjacent to and within 2 meters of sign, including the entire excavated area shall be returned to its original condition and quality, including, materials, finish and grading that was present prior to excavation.



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: NTS

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Original Issue Date: 14.12.05

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1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: JMM  
SPC  
AEO  
NLC

Drawn by: AEO

3.4 PROTECTION OF EXISTING FEATURES

Contractor shall preserve and protect all existing trees, shrubs, plantings, street signs, parking meters, fences, retaining walls, buildings, entry ways, surface materials, property survey monuments, structures and utility line appurtenances. Any removal and replacements or protection required shall be considered part of the contractor's responsibility and shall be incidental to the Contract. Any damage to existing features within and adjacent to the work area, created by failure of the contractor to provide adequate protection from its construction operations, shall be repaired or replaced to the satisfaction of the respective owner at the contractor's expense.

Contractor shall preserve and protect all permanent survey markers, including private property corner markers, section or quarter section monuments, and permanent benchmarks. Survey markers necessarily moved as a result of construction, or otherwise damaged by the contractor shall be replaced at the contractor's expense by a land surveyor registered in the project state.

3.5 UTILITY CONFLICTS

At some locations on the project, (water, gas, power pole supports, etc.) may be in conflict with the work authorized under this project. The contractor will inform the client's representative to determine a resolution of the conflict which may include relocation of the sign or utility.

3.6 FINAL CLEANUP

All dirt, mud, trench backfill, materials, temporary surface or other debris shall be removed by the contractor from pavement surfaces, ground surfaces, sewers, manholes, and catch basins as directed by the contractor. Sewers downstream of the project that have accumulated deposits or debris as a result of construction shall be jet cleaned and vacuumed to remove the material at the contractor's own expense.

3.7 FINAL INSPECTION AND ACCEPTANCE

- A. Upon completion of work, a final inspection for acceptance will be performed by the Owner.
- B. All mock-ups and unused submittals shall be removed from site prior to final acceptance.

- C. Submit operation manuals, tools, and keys as necessary to maintain and adjust the built products.

3.8 STRUCTURES AND UTILITIES ENCOUNTERED

Various underground and surface structures may or may not be shown on the plans. The locations and dimensions of such structures where shown do not purport to be absolutely correct. In some cases, the structures are plotted on the plans for the information of the contractor, but information so given is not to be construed as a representation that such structures will be found or encountered exactly as plotted. Other structure may also be encountered which are not shown on the plans.

The contractor shall maintain in operating condition all utilities encountered in this work. The contractor shall be entirely responsible for all injuries to water pipes; fiber optic cables; electric conduits; existing drains or sewers; gas pipes; and poles carrying electrical current, telephone or cable television during the prosecution of the work and shall be liable for damages to public or private property resulting there from, which amount may be deducted from any monies due him/her for work done. Any damage to existing utilities as a result of the construction shall be repaired to the satisfaction of the owner of the utility at the contractor's expense, whether or not said utilities are shown on the plans.

Existing utilities may be relocated with the approval of the owner of the utility. This relocation shall be at the contractor's expense, done according to the requirements of the utility owner and shall be sufficient to clear the proposed improvements.

Before beginning work, the contractor shall contact each company, municipality, or agency maintaining utilities in the project area and request their assistance in field locating their utilities in that area. The contractor, however, shall be solely responsible for the location of utilities.

4 CORRESPONDENCE AND COMMUNICATION

The contractor shall direct all project related questions and concerns in writing to the clients representative for the project. Contact information is listed on the Bid Documents on each page.



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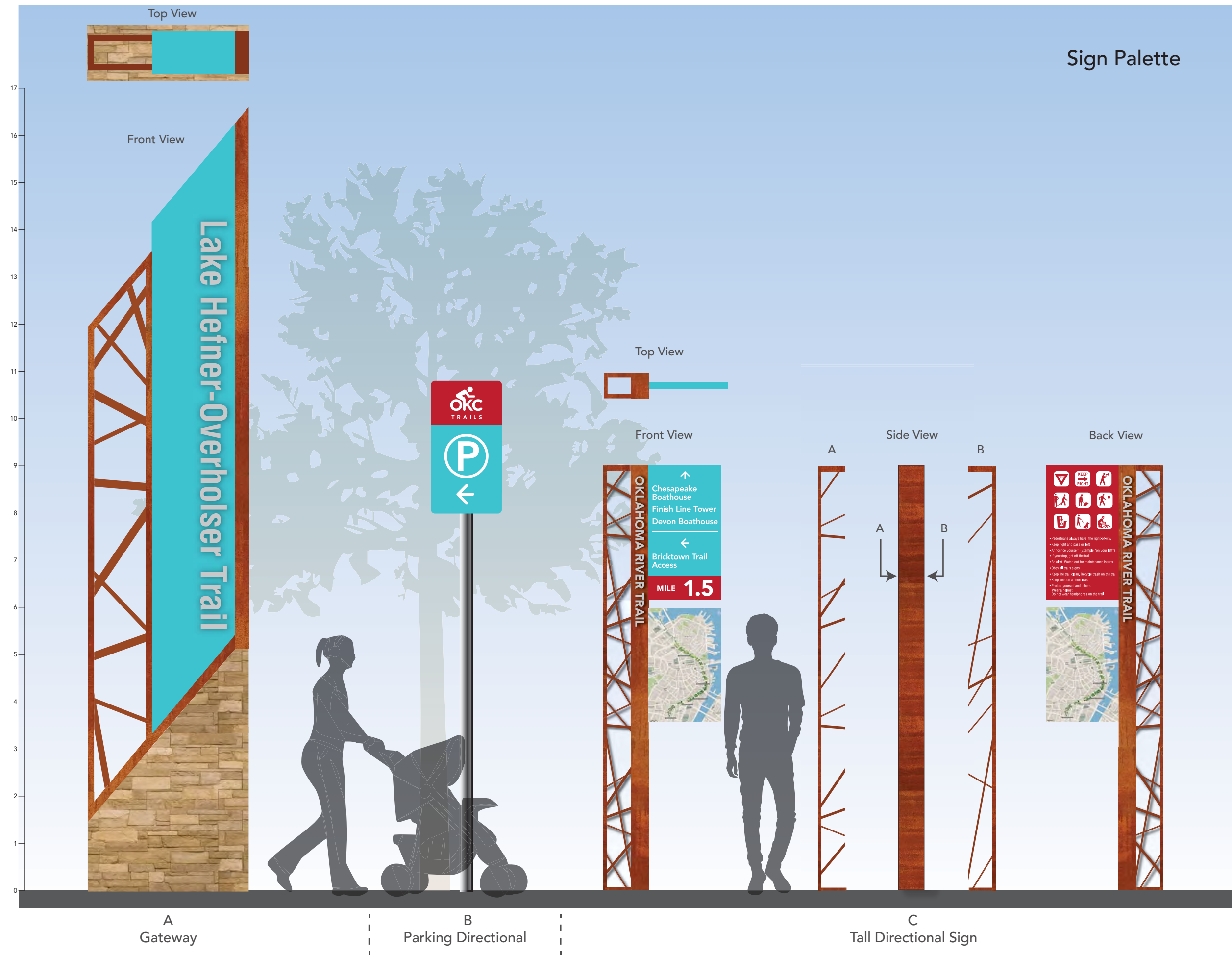
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405.842.1066

Project Team: JMM  
SPC  
AEO  
NLC

Drawn by: AEO





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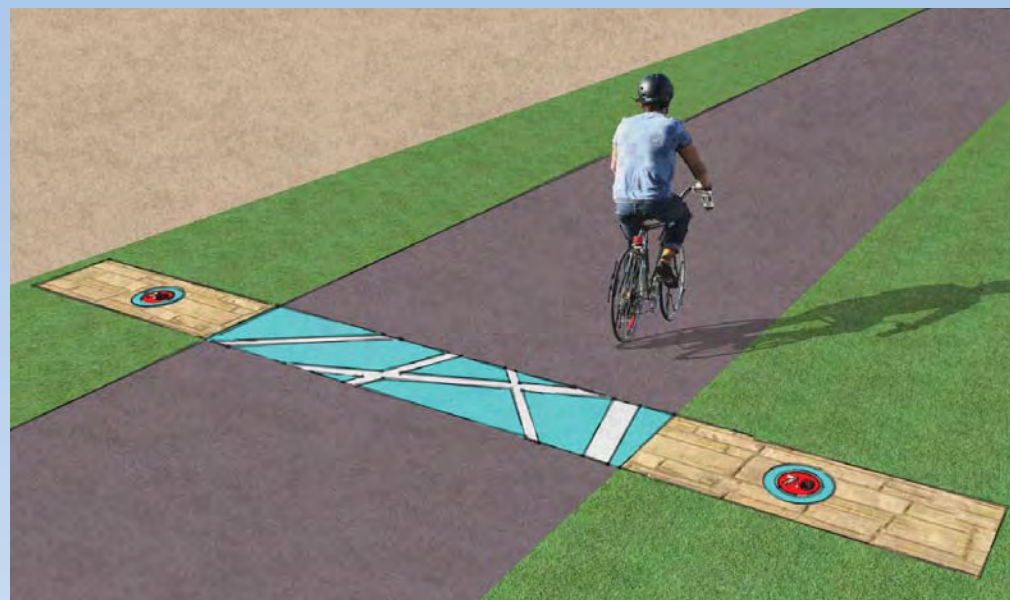
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## Sign Palette

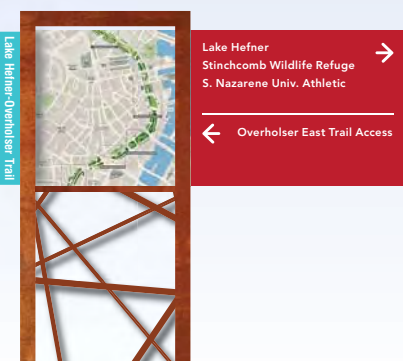


E  
Mile Marker

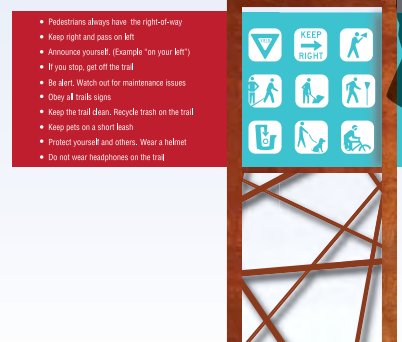
Top View



Front View



Back View



Front View

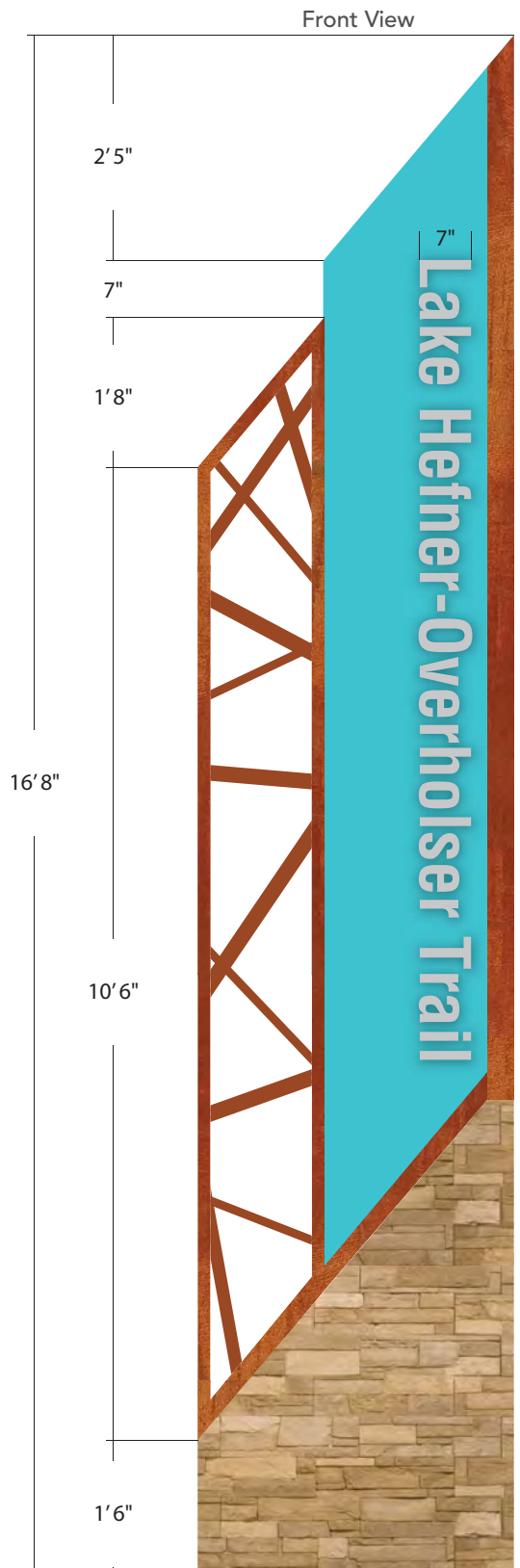
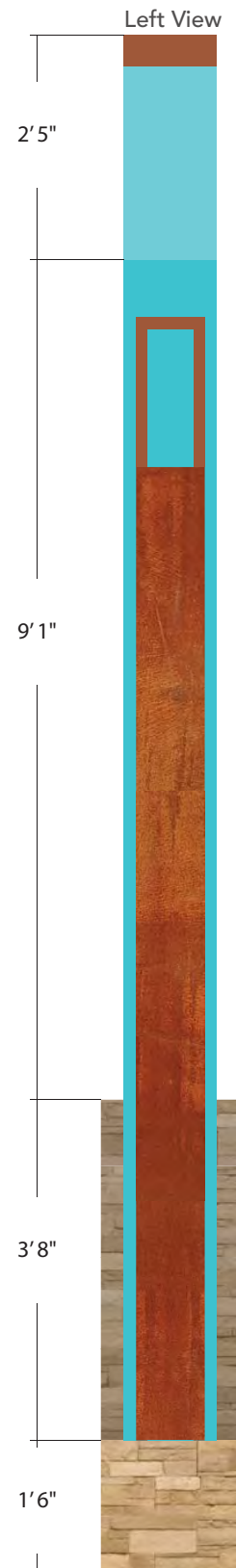
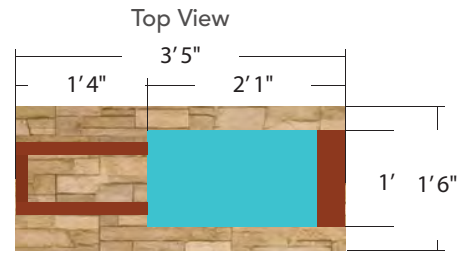


Side View



D  
Small Pedestrian Directional (low view)

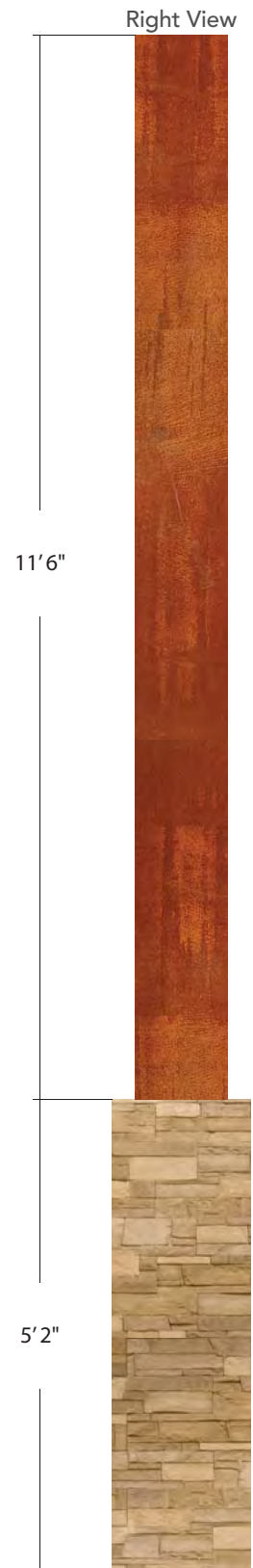
D  
Interpretive Sign



A

Gateway - Dimensions

Scale: 1/2" = 1'



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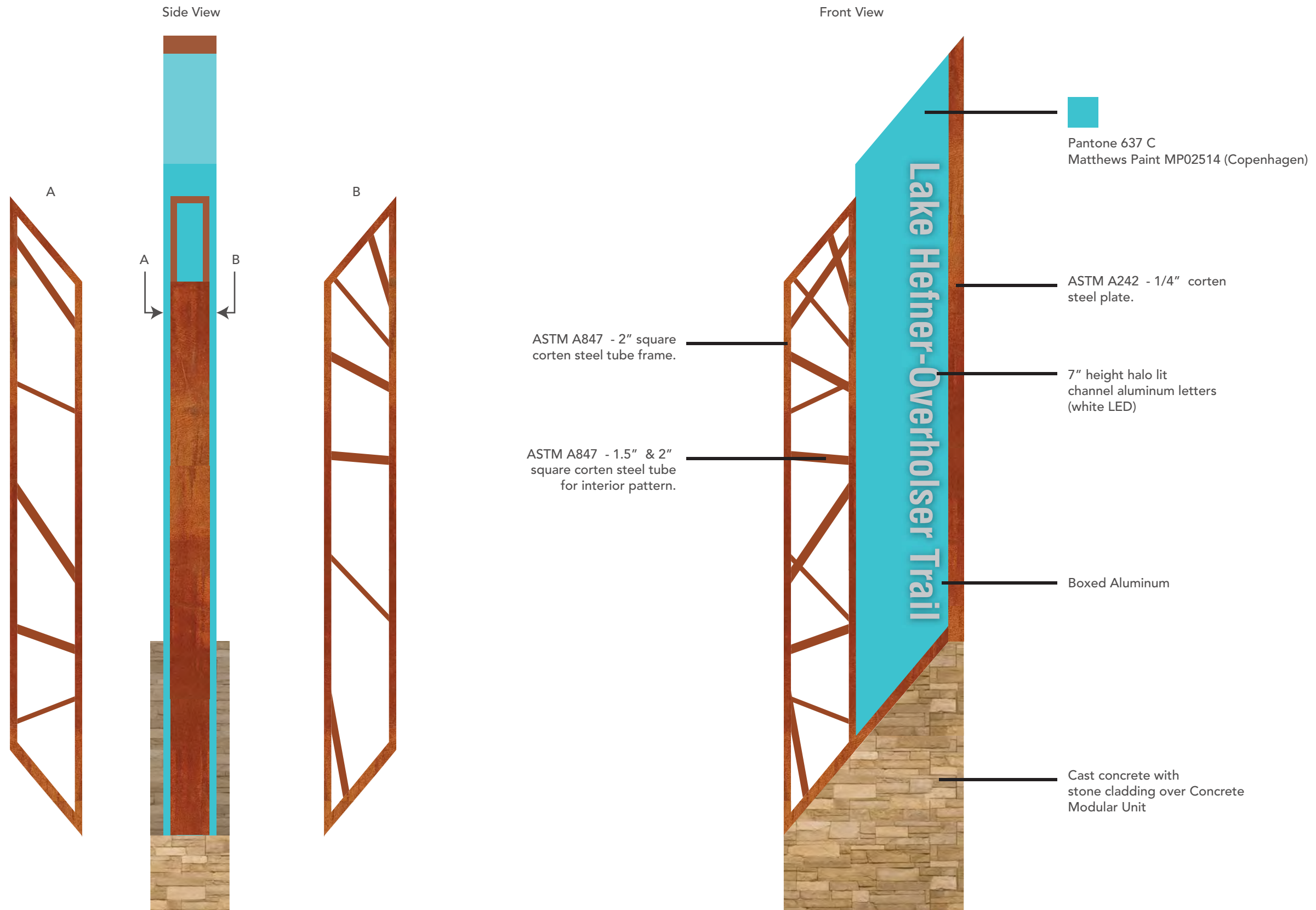
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**B** Parking Directional - Details  
Scale: 1/2" = 1'



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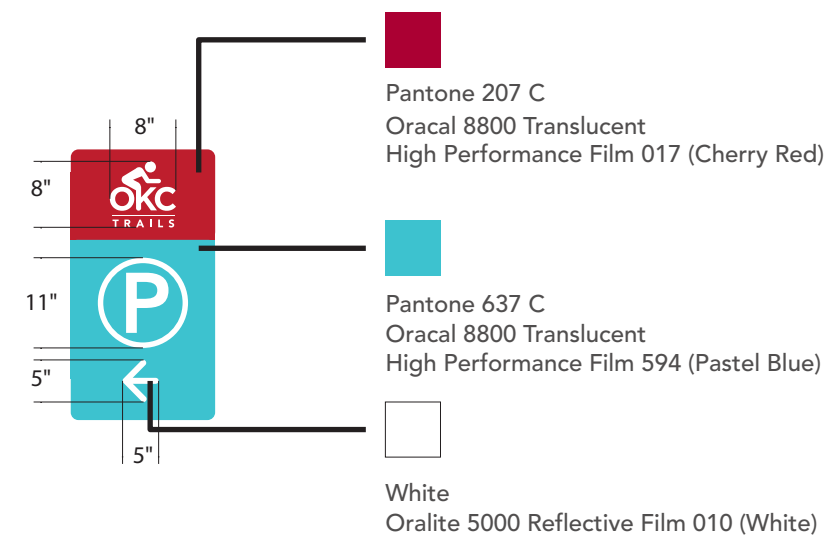
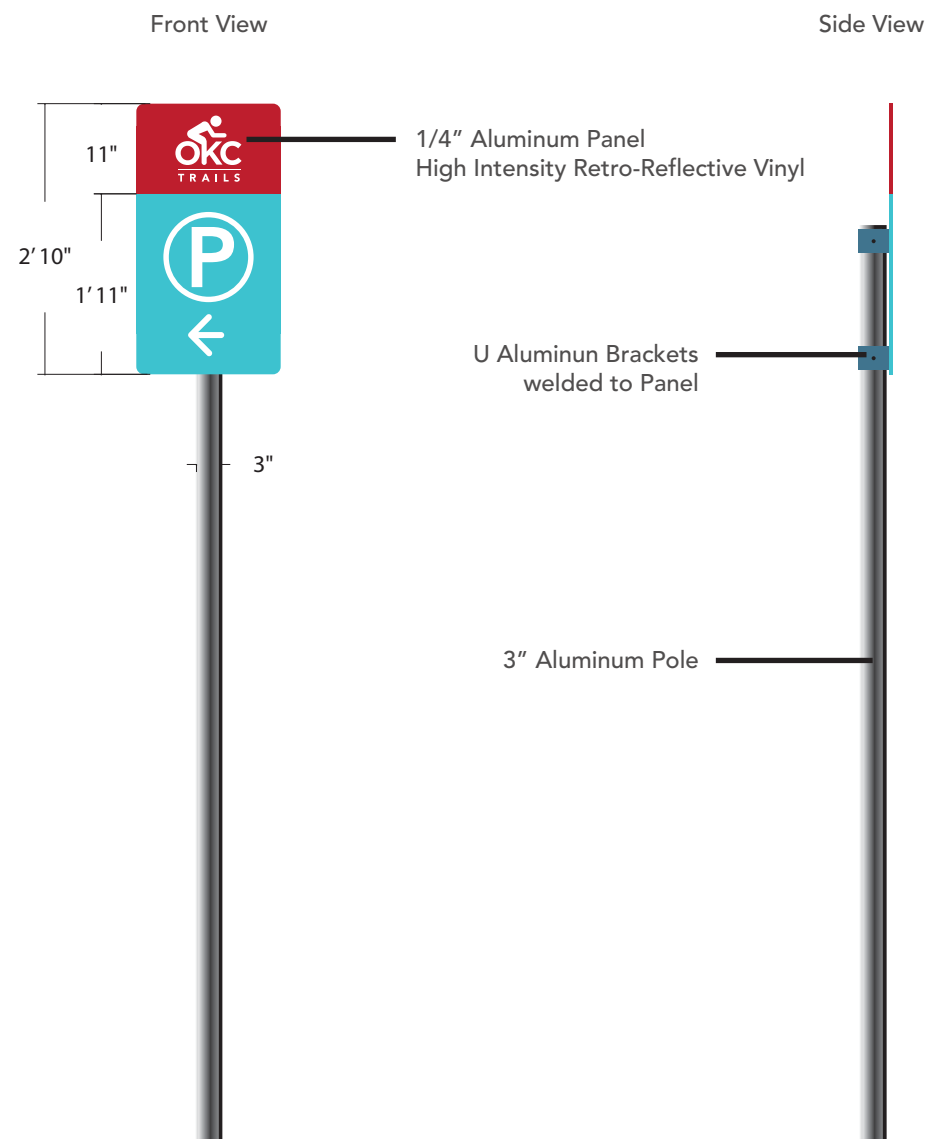
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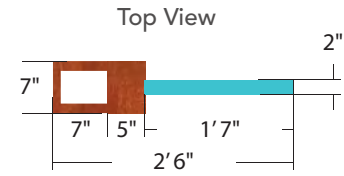
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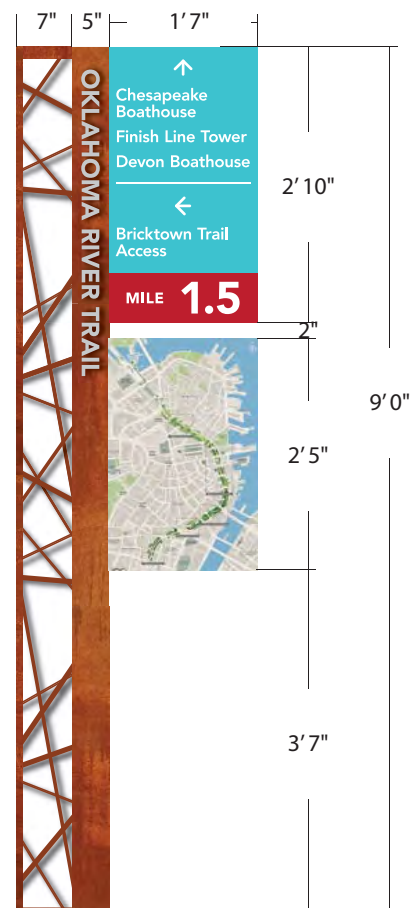
C

### Tall Directional - Dimensions

Scale: 1/2" = 1'



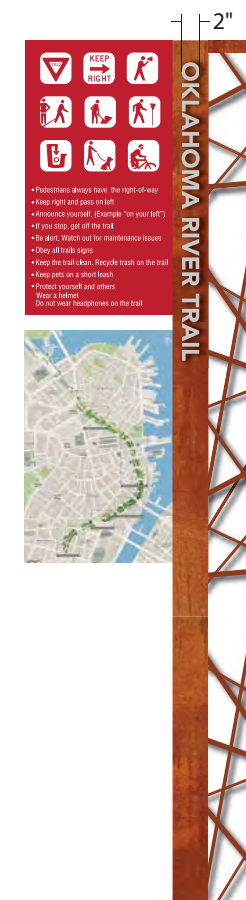
Front View



Side View



Back View



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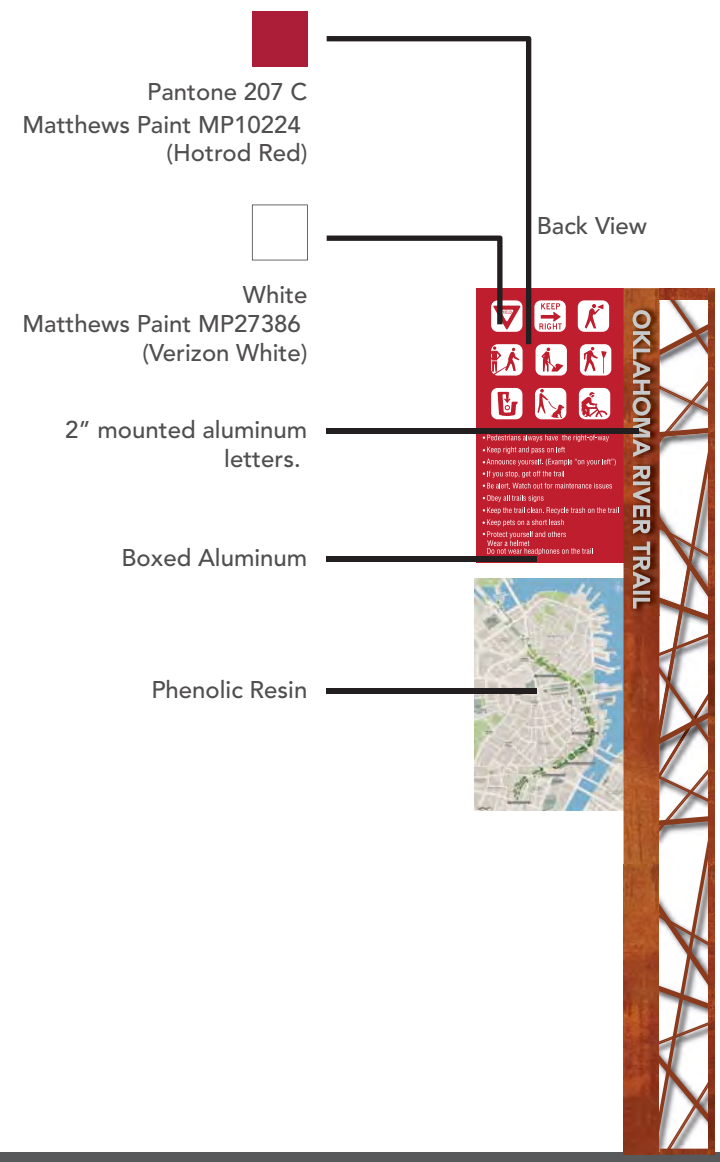
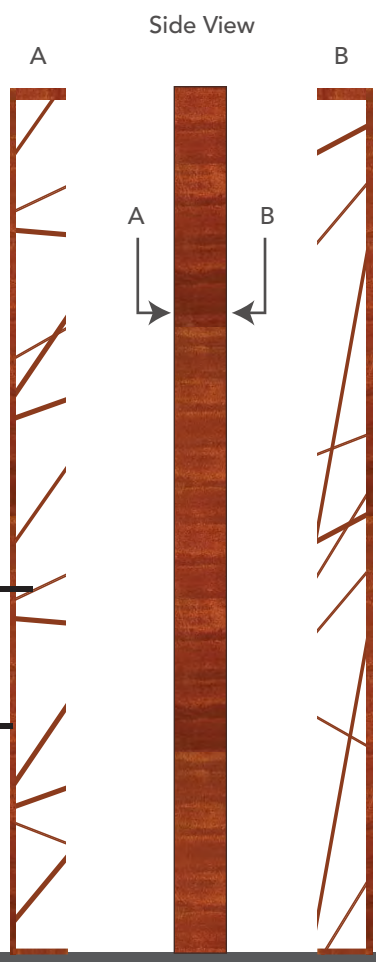
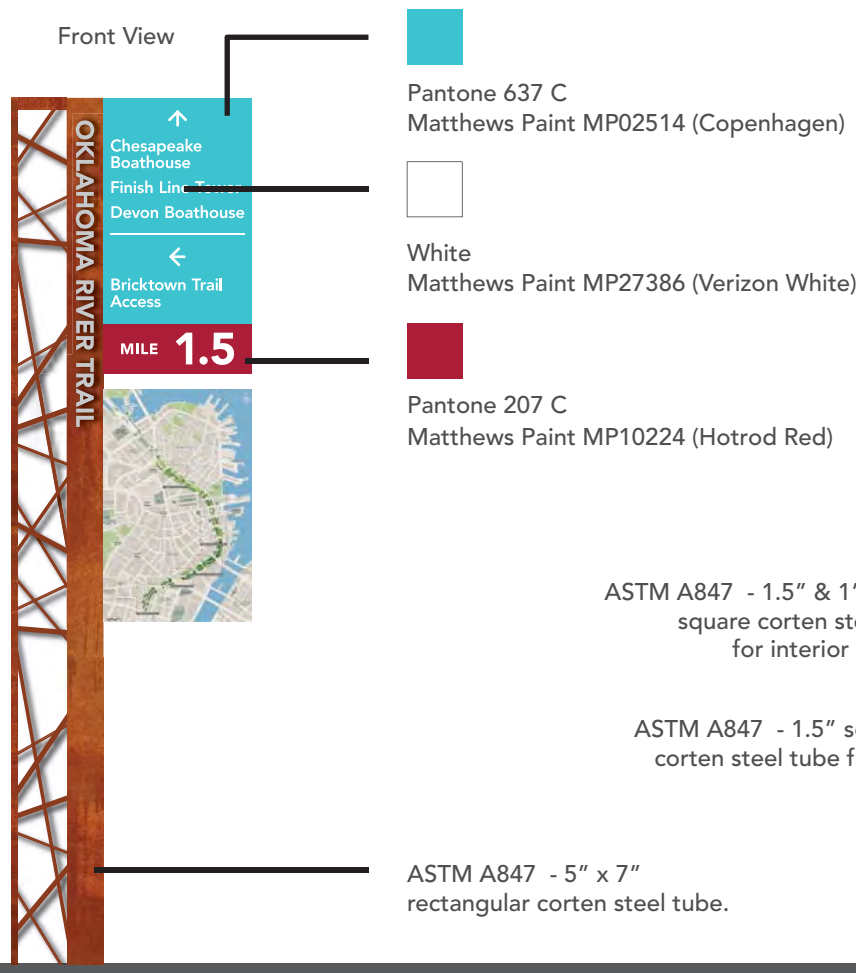
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NLC

Drawn by: AEO

C Tall Directional - Materials & Graphics

Scale: 1/2" = 1'



ASTM A847 - 1.5" & 1" square square corten steel tube for interior pattern.

ASTM A847 - 1.5" square corten steel tube frame.

ASTM A847 - 5" x 7" rectangular corten steel tube.



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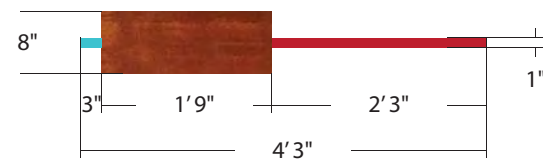
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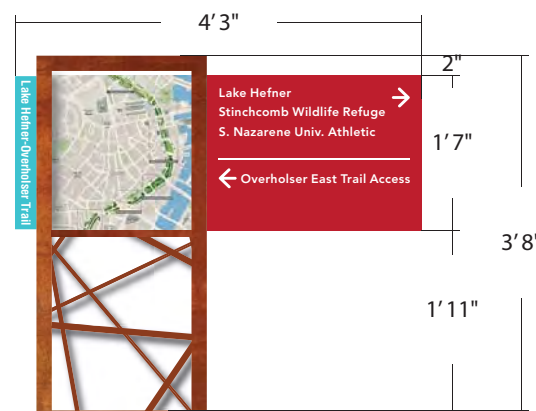
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Top View



Front View



Back View



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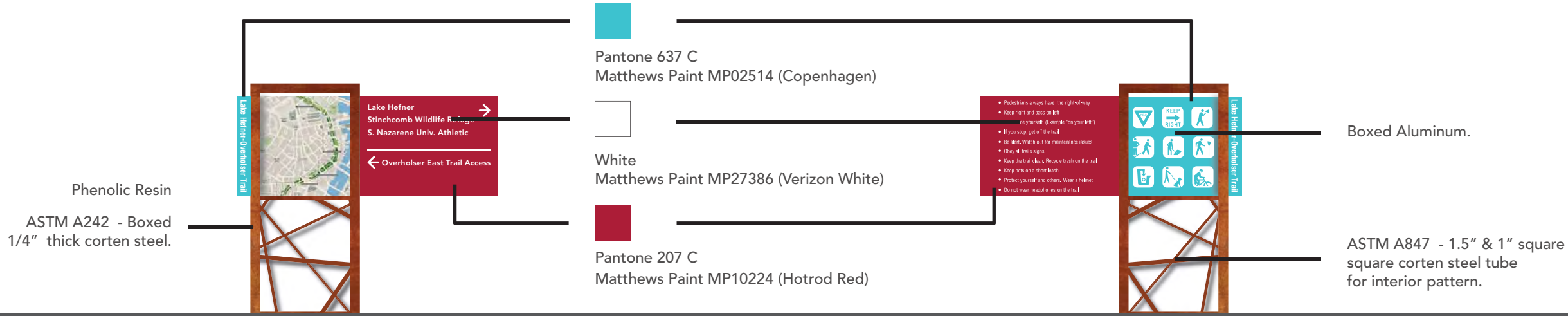
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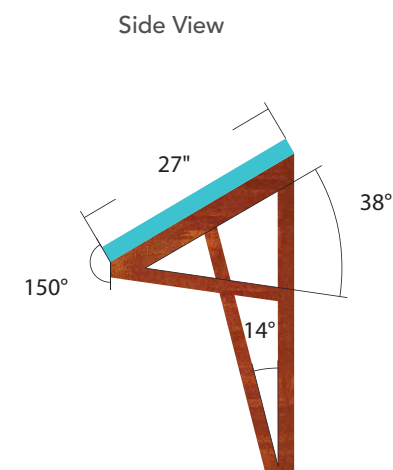
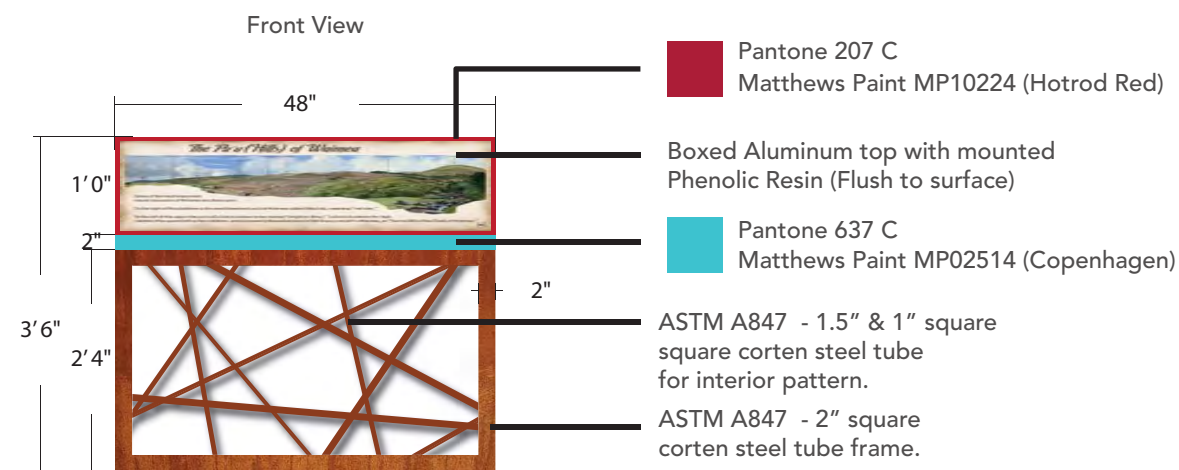
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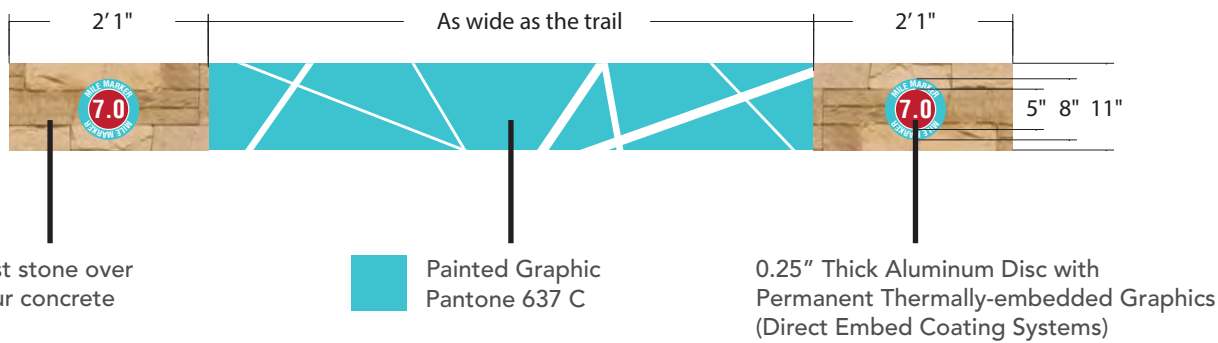
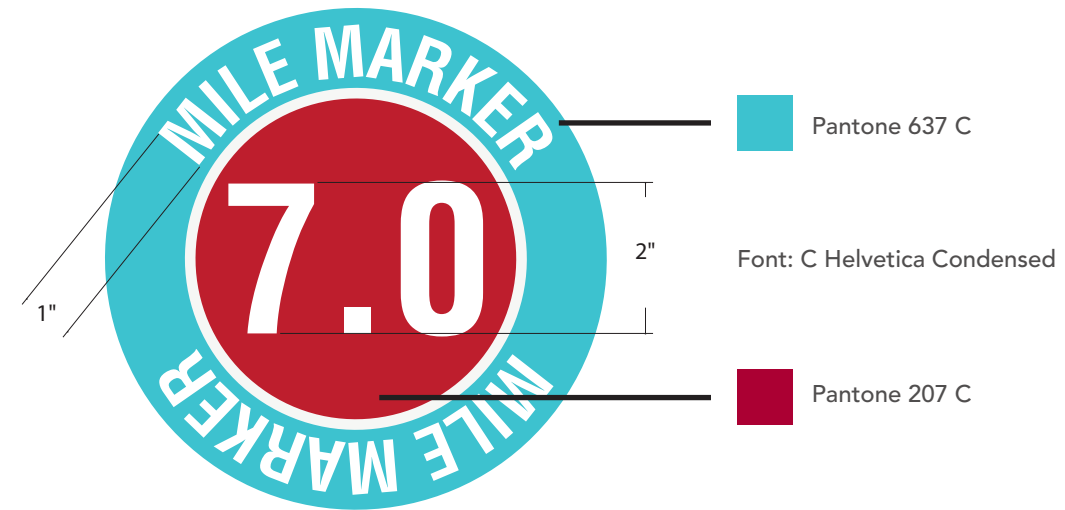
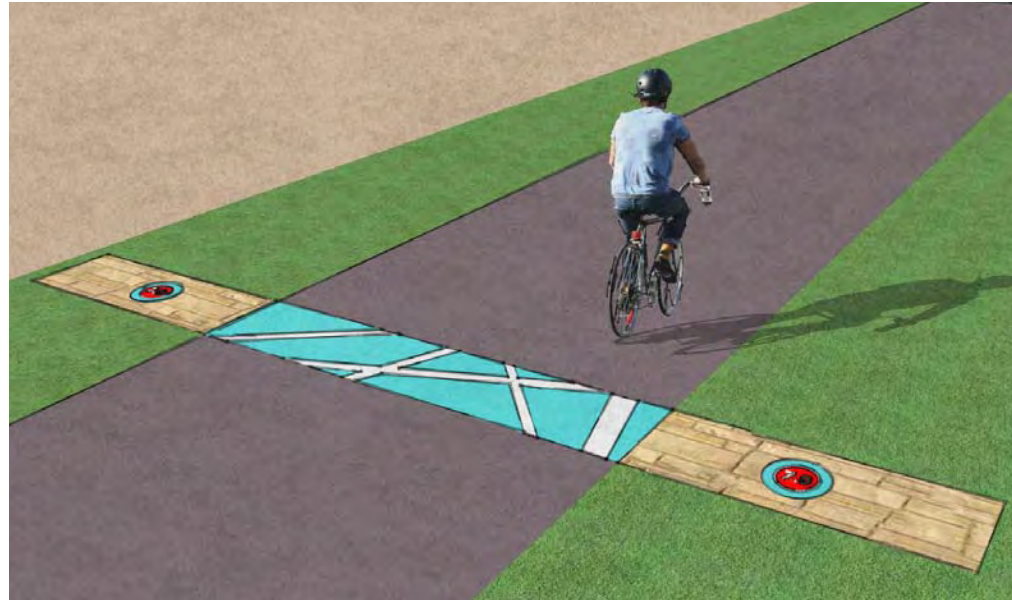
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F

### Mile Marker - Details

Scale: 1/2" = 1'



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AEO  
NLC

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# TRAIL MAP INDEX

Sheet Number	Sheet Title
019	TRAIL MAP INDEX
020	BERT COOPER TRAILS - NORTHEAST
021	BERT COOPER TRAILS - SOUTHEAST
022	BERT COOPER TRAILS - SOUTHWEST
023	BERT COOPER TRAILS - NORTHWEST
024	BRICKTOWN CANAL TRAIL
025	BROCK TRAIL
026	EARLYWINE TRAIL
027	I-44 TRAIL - 1 OF 4
028	I-44 TRAIL - 2 OF 4
029	I-44 TRAIL - 3 OF 4
030	I-44 TRAIL - 4 OF 4
031	KATY TRAIL - 1 OF 3
032	KATY TRAIL - 2 OF 3
033	KATY TRAIL - 3 OF 3
034	LAKE HEFNER-OVERHOLSER TRAIL
035	LAKE OVERHOLSER TRAIL - NORTHEAST
036	LAKE OVERHOLSER TRAIL - SOUTHEAST
037	LAKE OVERHOLSER TRAIL - SOUTHWEST
038	LAKE OVERHOLSER TRAIL - NORTHWEST
039	LAKE STANLEY DRAPER TRAIL
040	LIGHTNING CREEK TRAIL - 1 OF 3
041	LIGHTNING CREEK TRAIL - 2 OF 3
042	LIGHTNING CREEK TRAIL - 3 OF 3
043	NORTH GRAND BOULEVARD TRAIL - 1 OF 2
044	NORTH GRAND BOULEVARD TRAIL - 2 OF 2
045	OKLAHOMA RIVER TRAILS - 1 OF 3
046	OKLAHOMA RIVER TRAILS - 2 OF 3
047	OKLAHOMA RIVER TRAILS - 3 OF 3
048	SOUTH GRAND BOULEVARD TRAIL - 1 OF 2
049	SOUTH GRAND BOULEVARD TRAIL - 2 OF 2
050	TINKER-DRAPER TRAIL - 1 OF 2
051	TINKER-DRAPER TRAIL - 2 OF 2
052	WEST RIVER TRAIL



## Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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 TRAIL MAP INDEX

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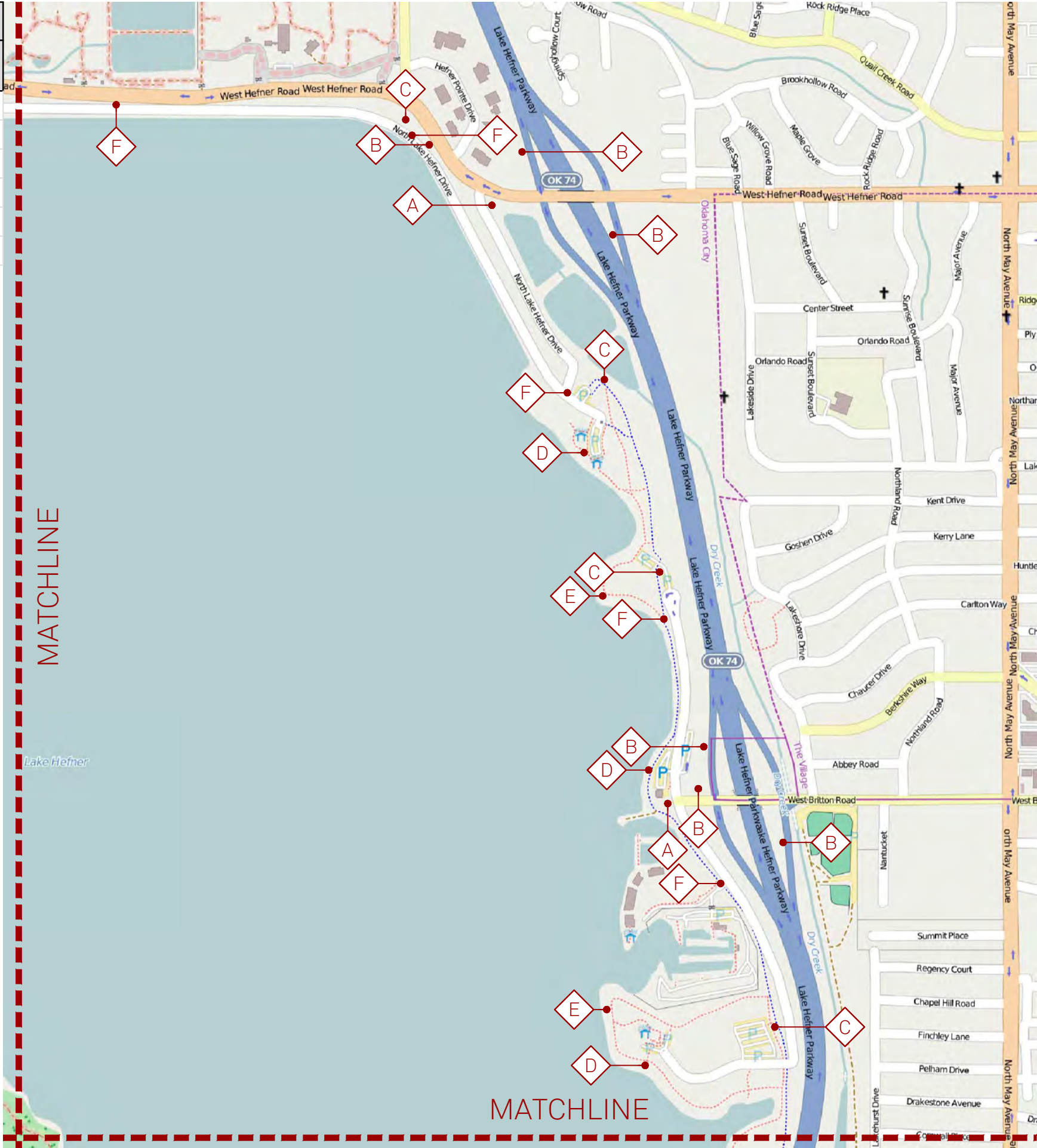
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Drawn By: NLC  
 Checked By: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	4
B	PARKING DIRECTIONAL SIGN	19
C	TALL PEDESTRIAN DIRECTIONAL SIGN	13
D	SMALL PEDESTRIAN DIRECTIONAL SIGN	4
E	INTERPRETIVE SIGN	3
F	MILE MARKER	19

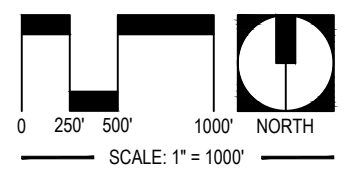


**Wayfinding Master Plan for Oklahoma City Trails (MP-0451)**

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for scale discrepancies caused by reduced or enlarged plan reproductions.



Description: Sign Standards Manual

BERT COOPER TRAILS - NORTHEAST

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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 CONSTRUCTION

These drawings express visual design intent only. Final engineering, materials, and fabrication shall remain the responsibility of the Fabricator.

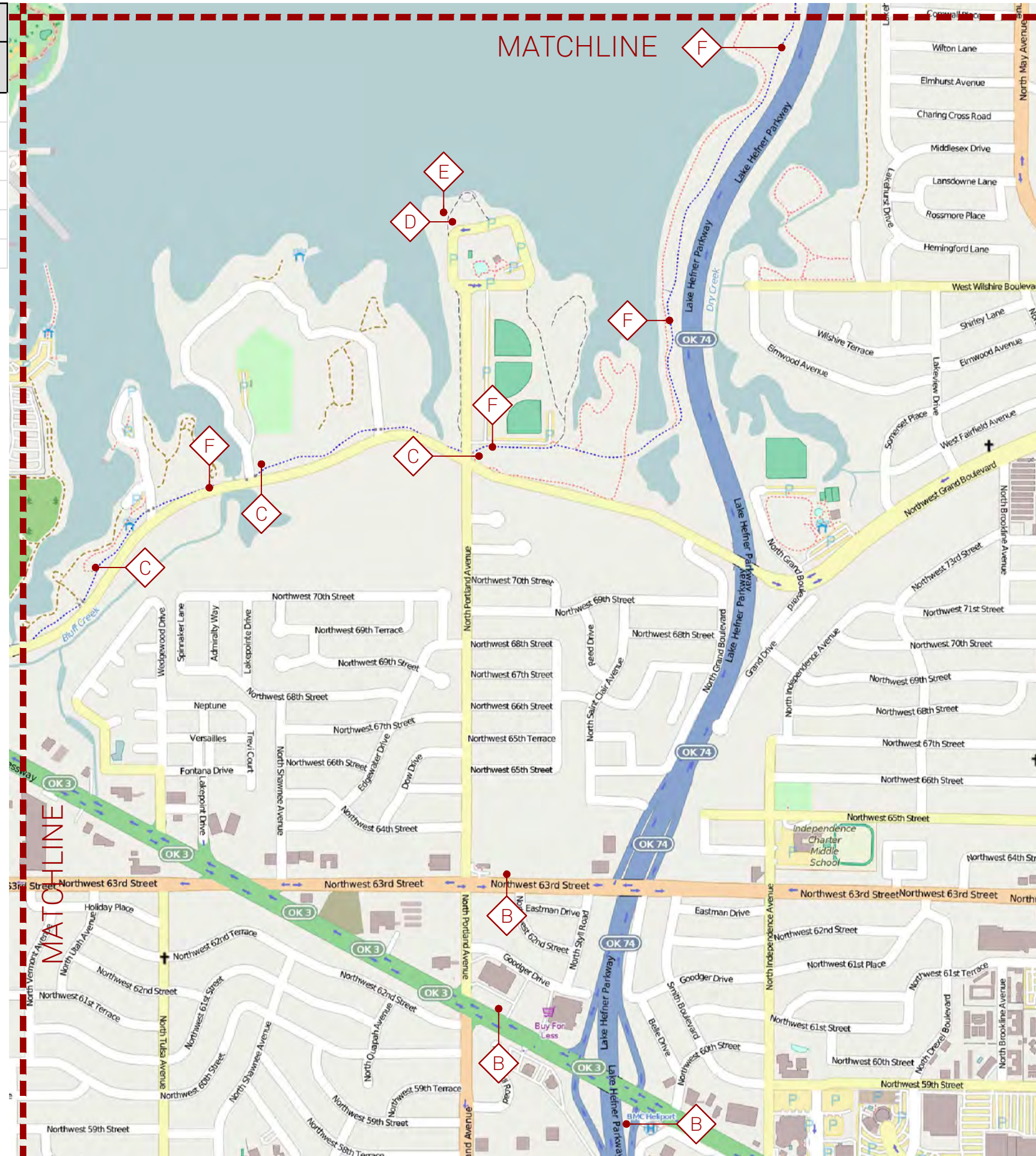
The content of this document is subject to the design intent requirements outlined in the specifications.

Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC

Checked By: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	4
B	PARKING DIRECTIONAL SIGN	19
C	TALL PEDESTRIAN DIRECTIONAL SIGN	13
D	SMALL PEDESTRIAN DIRECTIONAL SIGN	4
E	INTERPRETIVE SIGN	3
F	MILE MARKER	19

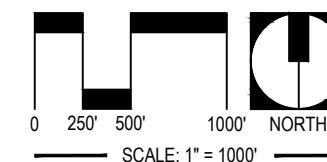


### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: Sign Standards Manual  
 BERT COOPER TRAILS - SOUTHEAST

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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 CONSTRUCTION

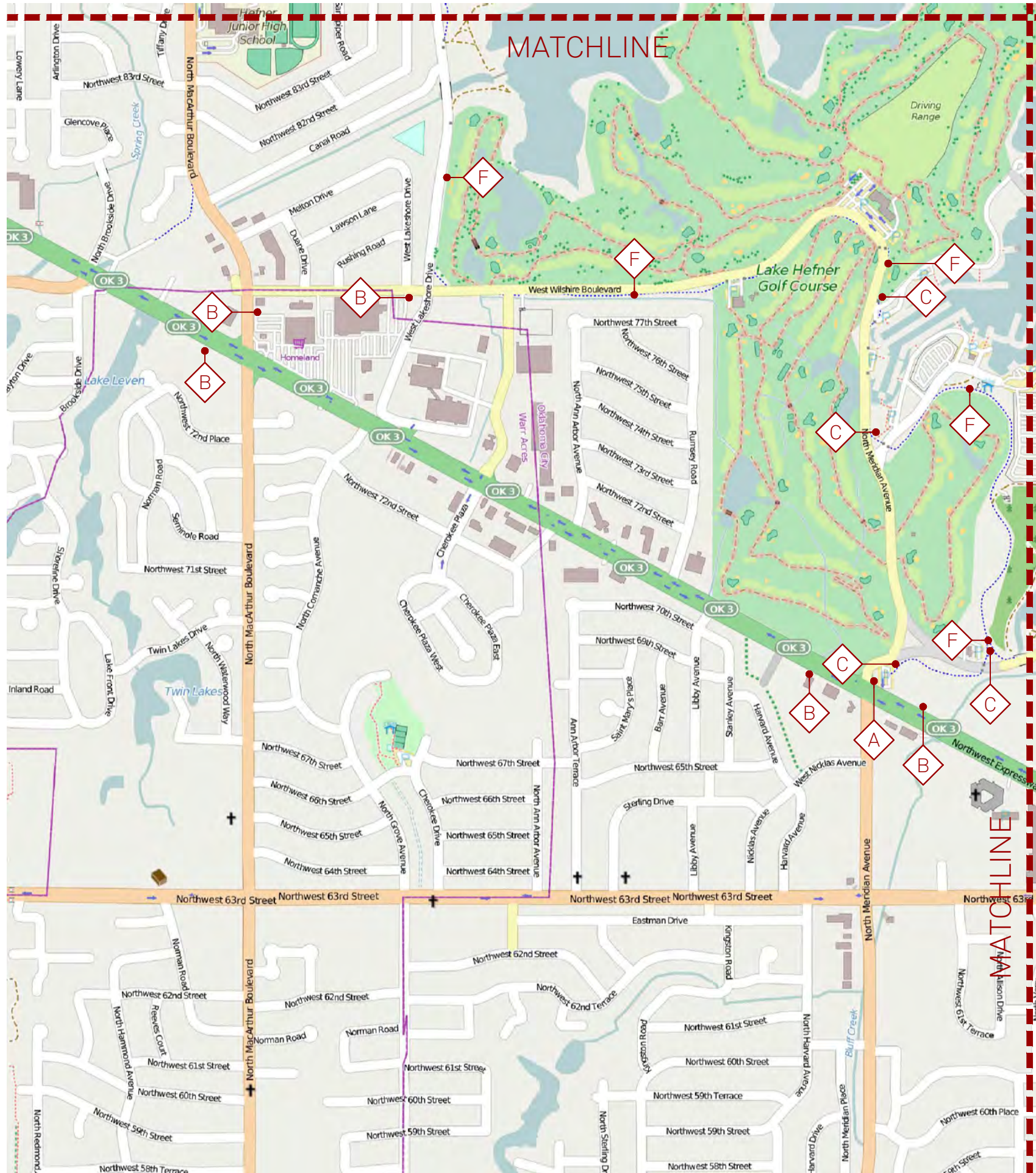
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	4
B	PARKING DIRECTIONAL SIGN	19
C	TALL PEDESTRIAN DIRECTIONAL SIGN	13
D	SMALL PEDESTRIAN DIRECTIONAL SIGN	4
E	INTERPRETIVE SIGN	3
F	MILE MARKER	19

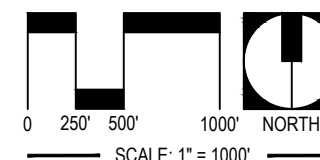


Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: Sign Standards Manual  
BERT COOPER TRAILS - SOUTHWEST

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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NOT FOR BIDDING OR  
CONSTRUCTION

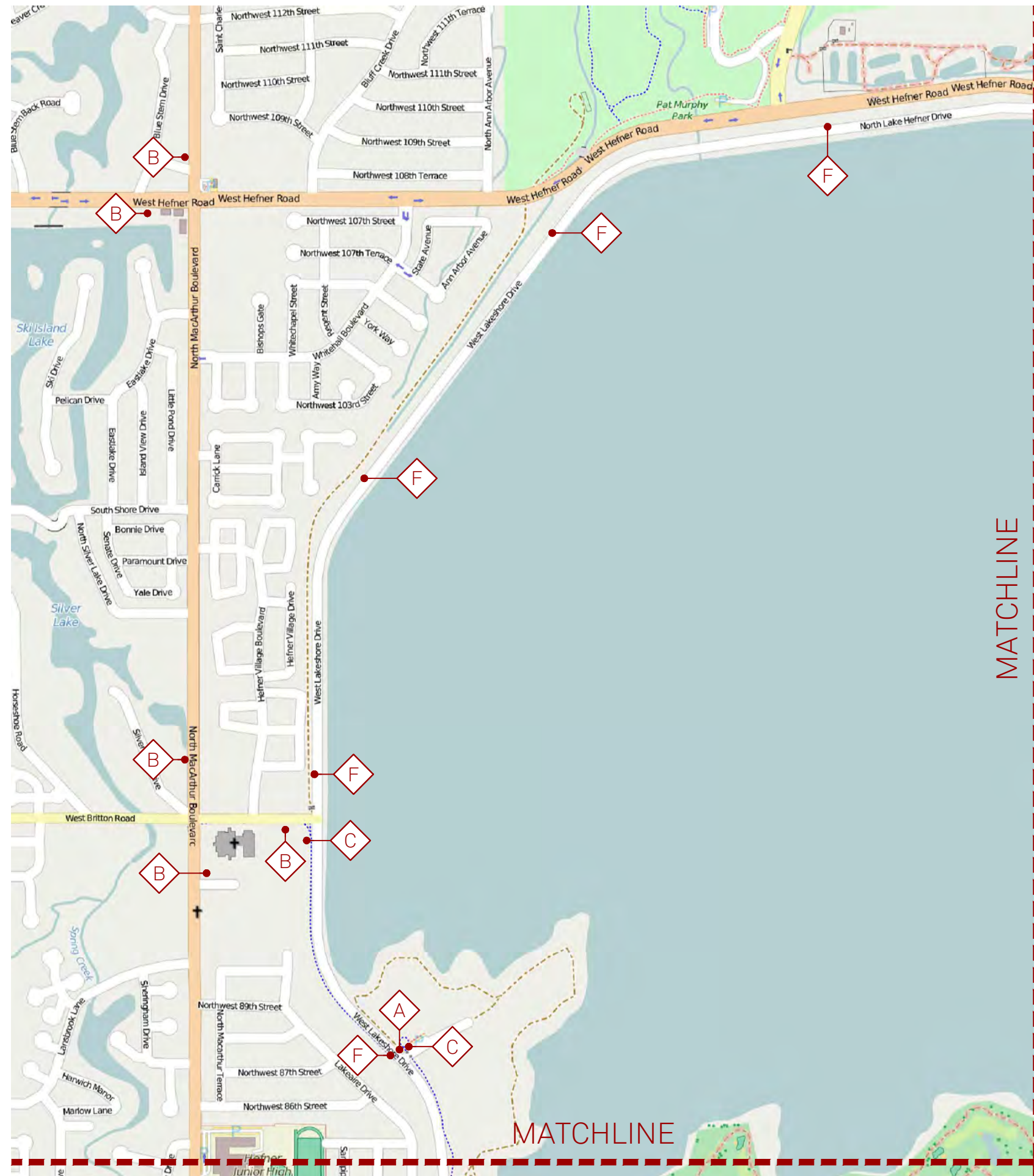
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Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Drawn By: NLC  
Checked By: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	4
B	PARKING DIRECTIONAL SIGN	19
C	TALL PEDESTRIAN DIRECTIONAL SIGN	13
D	SMALL PEDESTRIAN DIRECTIONAL SIGN	4
E	INTERPRETIVE SIGN	3
F	MILE MARKER	19

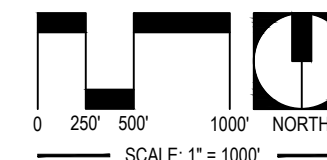


## Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: Sign Standards Manual

BERT COOPER TRAILS - NORTHWEST

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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 CONSTRUCTION

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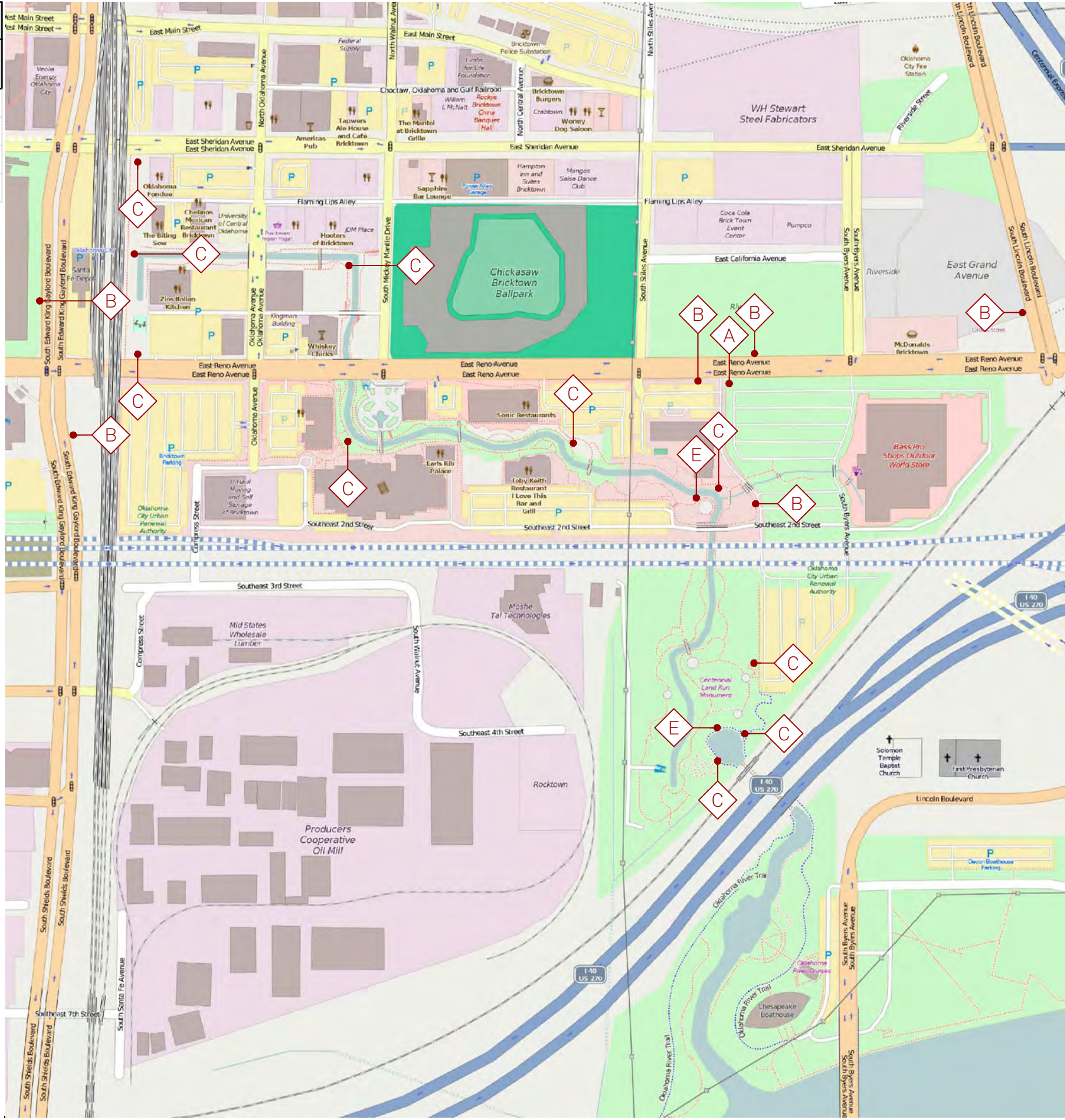
Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC

Checked By: NLC



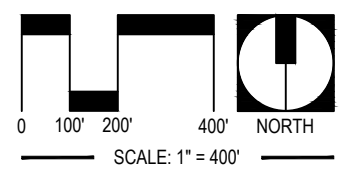
SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	1
B	PARKING DIRECTIONAL SIGN	6
C	TALL PEDESTRIAN DIRECTIONAL SIGN	10
E	INTERPRETIVE SIGN	2



**Wayfinding Master Plan for Oklahoma City Trails (MP-0451)**

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 400'  
 Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for scale discrepancies caused by reduced or enlarged plan reproductions.



Description: Sign Standards Manual  
 BRICKTOWN CANAL TRAIL

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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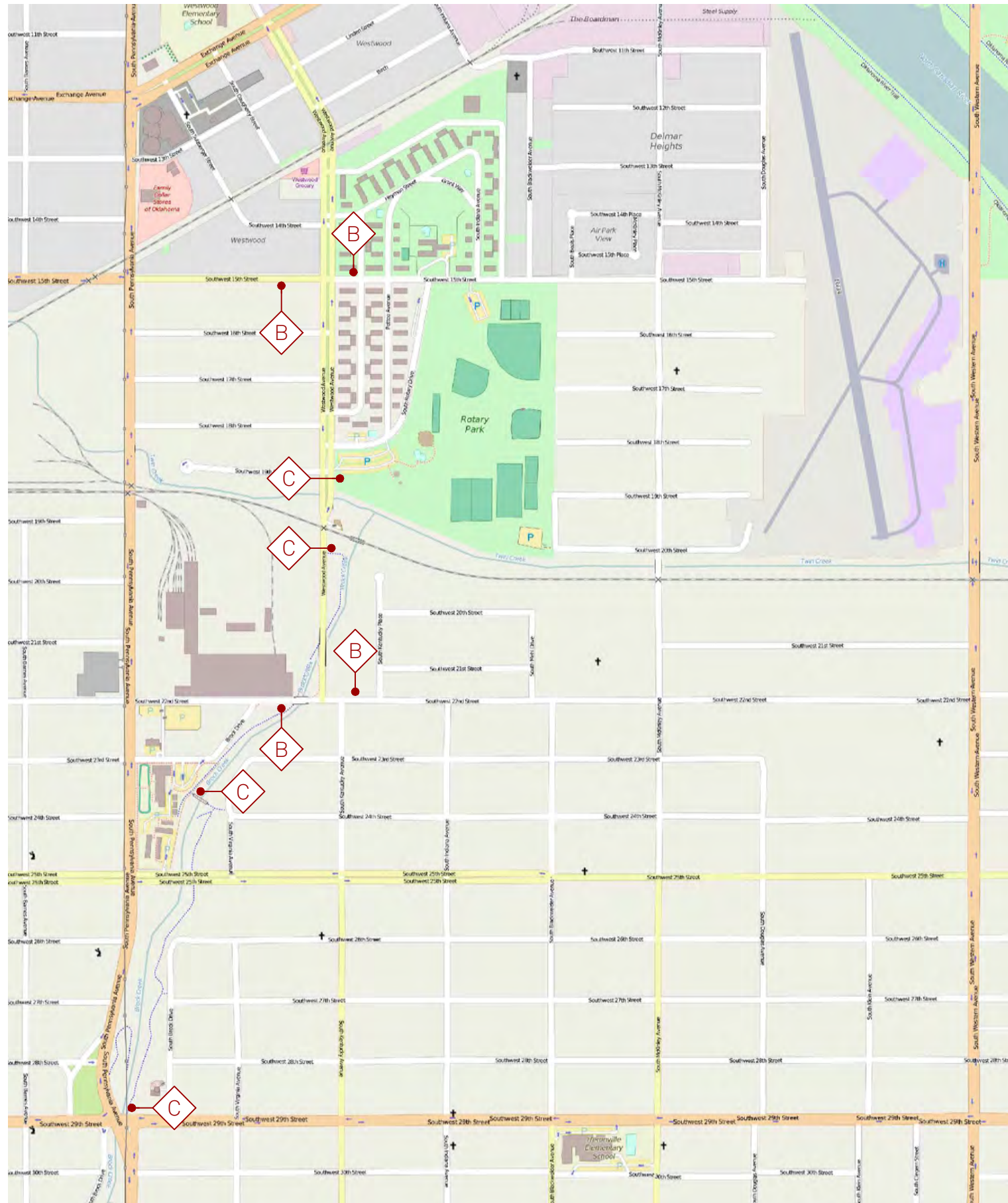
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

### SIGN TYPE KEY

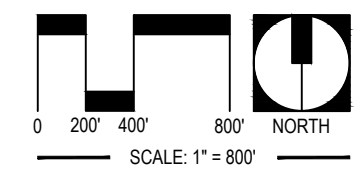
ID	DESCRIPTION	QUANTITY
B	PARKING DIRECTIONAL SIGN	4
C	TALL PEDESTRIAN DIRECTIONAL SIGN	4



### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 800'  
 Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for scale discrepancies caused by reduced or enlarged plan reproductions.



Description: Sign Standards Manual  
 BROCK TRAIL

Original Issue Date: 12.05.2014

Revision:

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 1015 N. Broadway Ave.  
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 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

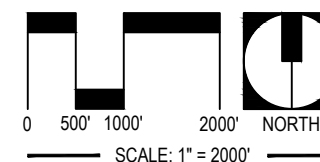


# Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 2000'

Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for scale discrepancies caused by reduced or enlarged plan reproductions.



Description: Sign Standards Manual  
EARLYWINE TRAIL

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

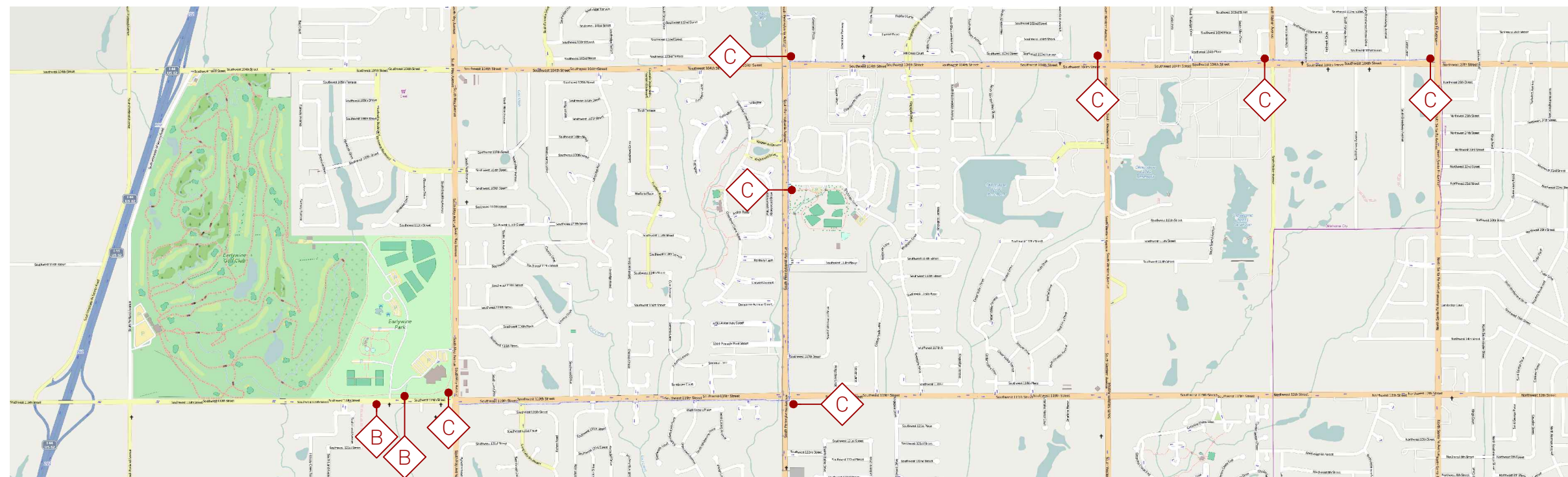
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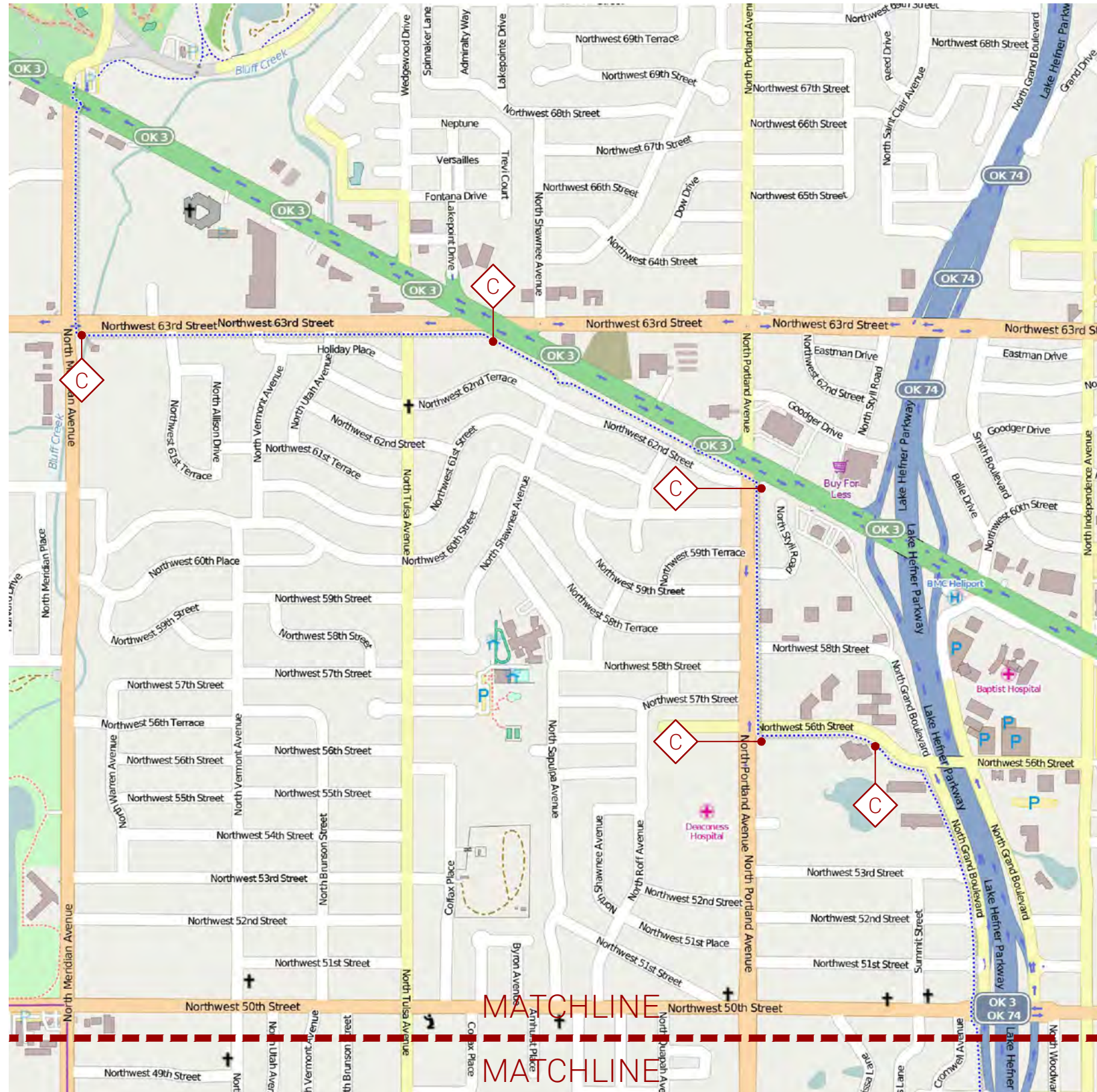
Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Drawn By: NLC  
Checked By: NLC



## SIGN TYPE KEY

ID	DESCRIPTION	QUANTITY
B	PARKING DIRECTIONAL SIGN	2
C	TALL PEDESTRIAN DIRECTIONAL SIGN	7



MATCHLINE  
MATCHLINE

**SIGN TYPE KEY**

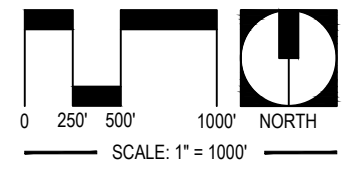
ID	DESCRIPTION	QUANTITY
C	TALL PEDESTRIAN DIRECTIONAL SIGN	18



**Wayfinding Master Plan for Oklahoma City Trails (MP-0451)**

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: Sign Standards Manual  
I-44 TRAIL - 1 OF 4

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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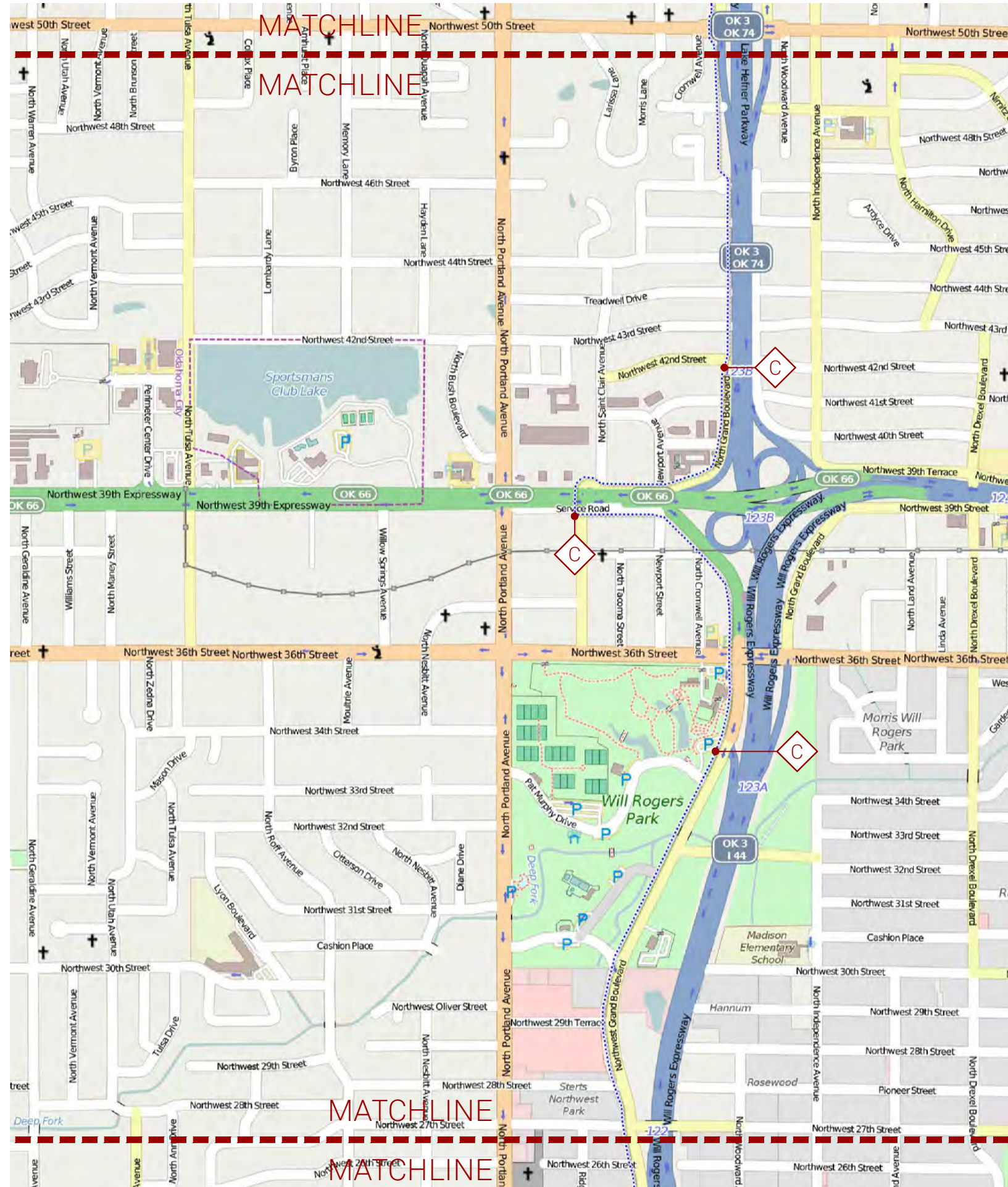
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Oklahoma City, OK 73102  
405.842.1066

Drawn By: NLC  
Checked By: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
C	TALL PEDESTRIAN DIRECTIONAL SIGN	18

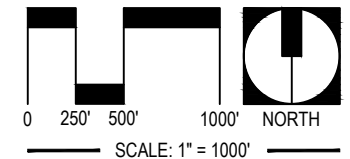


## Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: Sign Standards Manual  
 I-44 TRAIL - 2 OF 4

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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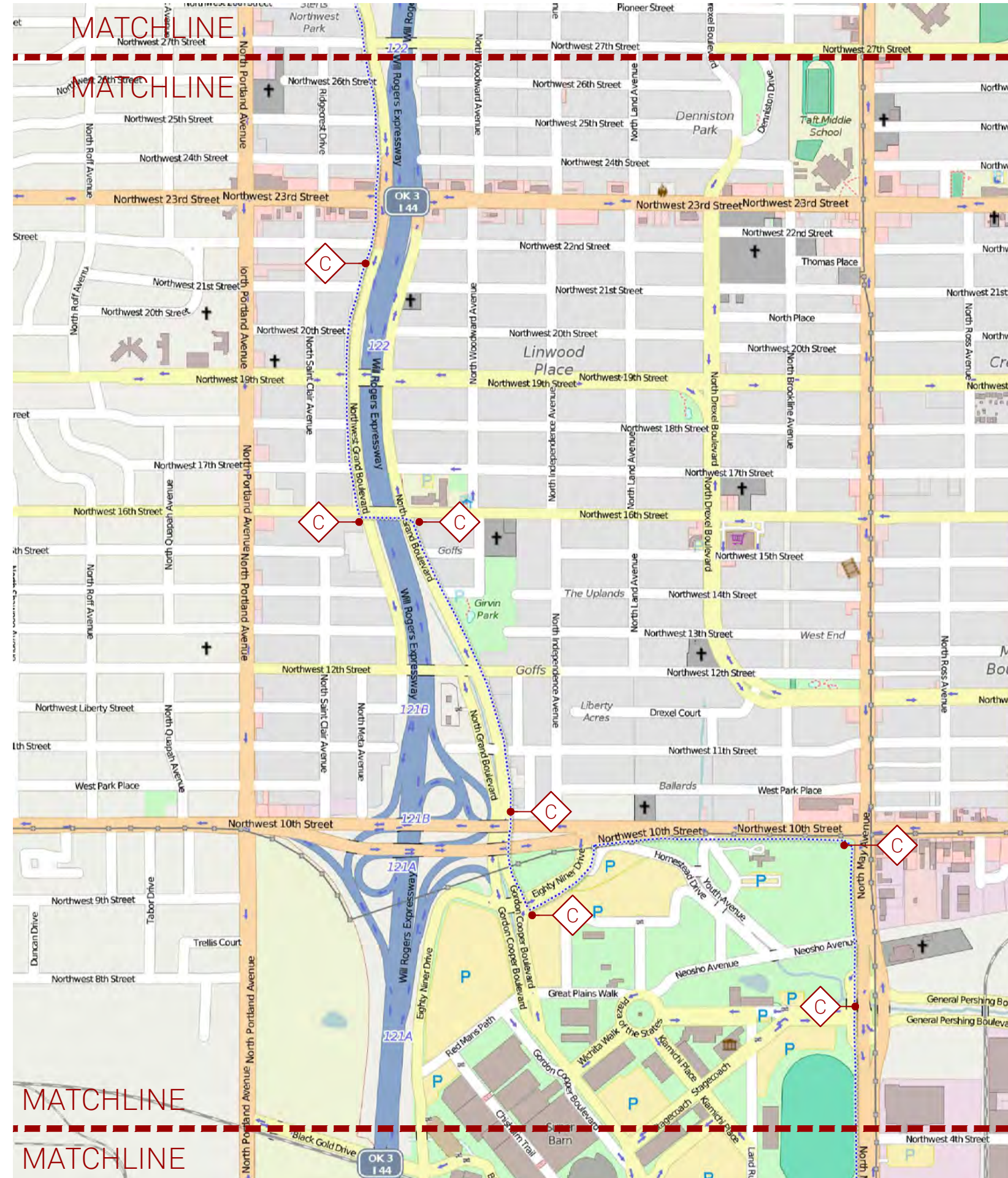
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 1015 N. Broadway Ave.  
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 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
C	TALL PEDESTRIAN DIRECTIONAL SIGN	18

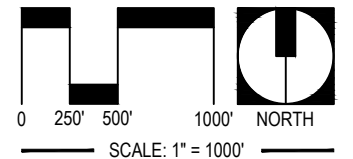


## Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: Sign Standards Manual  
 I-44 TRAIL - 3 OF 4

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

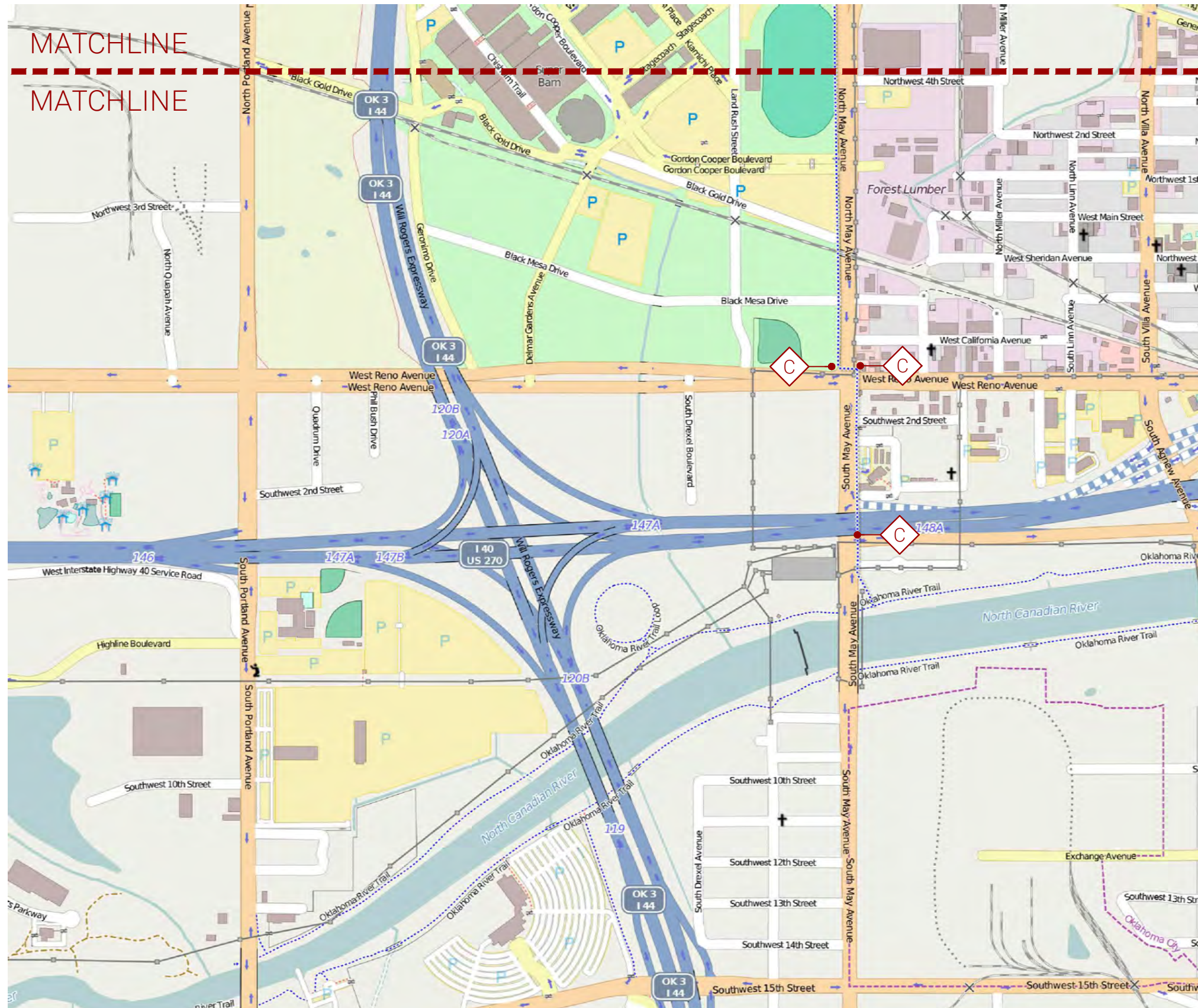
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 405.842.1066

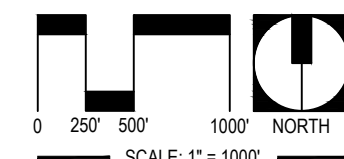
Drawn By: NLC  
 Checked By: NLC



### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

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Description: Sign Standards Manual  
 I-44 TRAIL - 4 OF 4

Original Issue Date: 12.05.2014

Revision:

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 CONSTRUCTION

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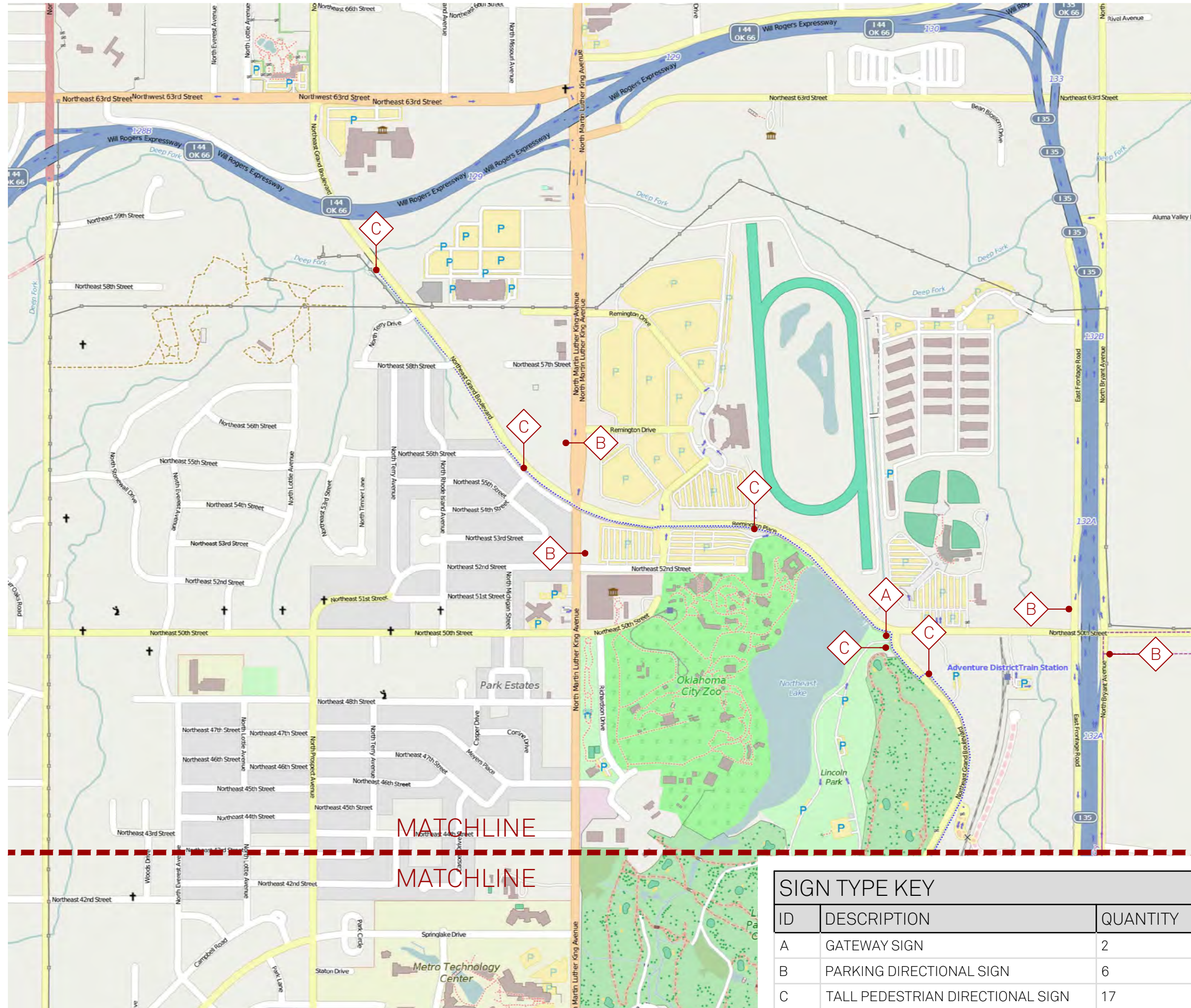
Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
C	TALL PEDESTRIAN DIRECTIONAL SIGN	18

030

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MATCHLINE  
MATCHLINE

**SIGN TYPE KEY**

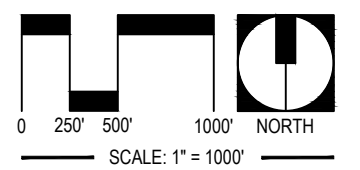
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A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	6
C	TALL PEDESTRIAN DIRECTIONAL SIGN	17



**Wayfinding Master Plan for Oklahoma City Trails (MP-0451)**

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: Sign Standards Manual  
KATY TRAIL - 1 OF 3

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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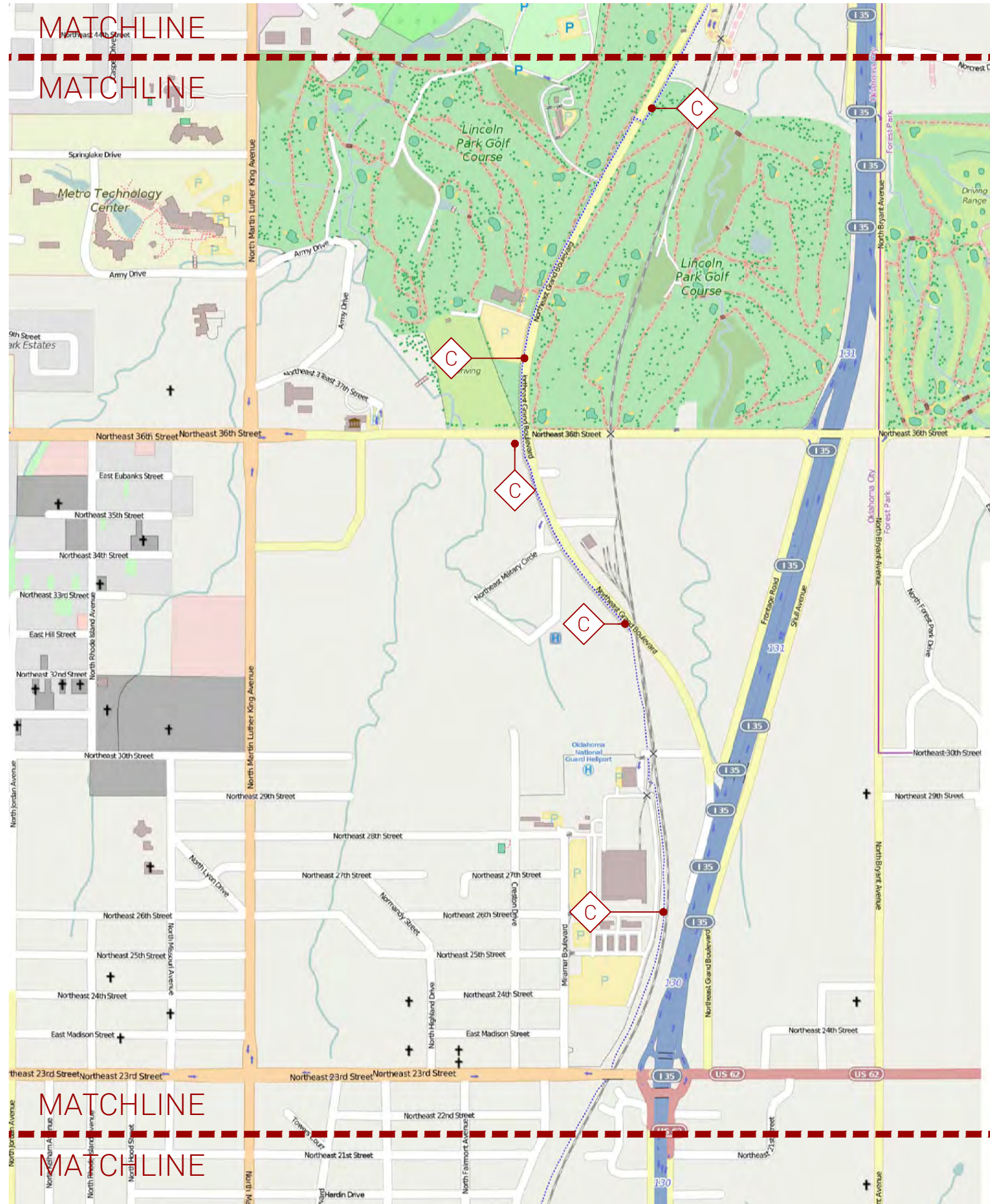
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Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Drawn By: NLC  
Checked By: NLC



SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	6
C	TALL PEDESTRIAN DIRECTIONAL SIGN	17

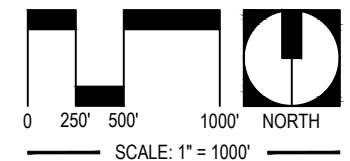


### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: Sign Standards Manual  
 KATY TRAIL - 2 OF 3

Original Issue Date: 12.05.2014

Revision:

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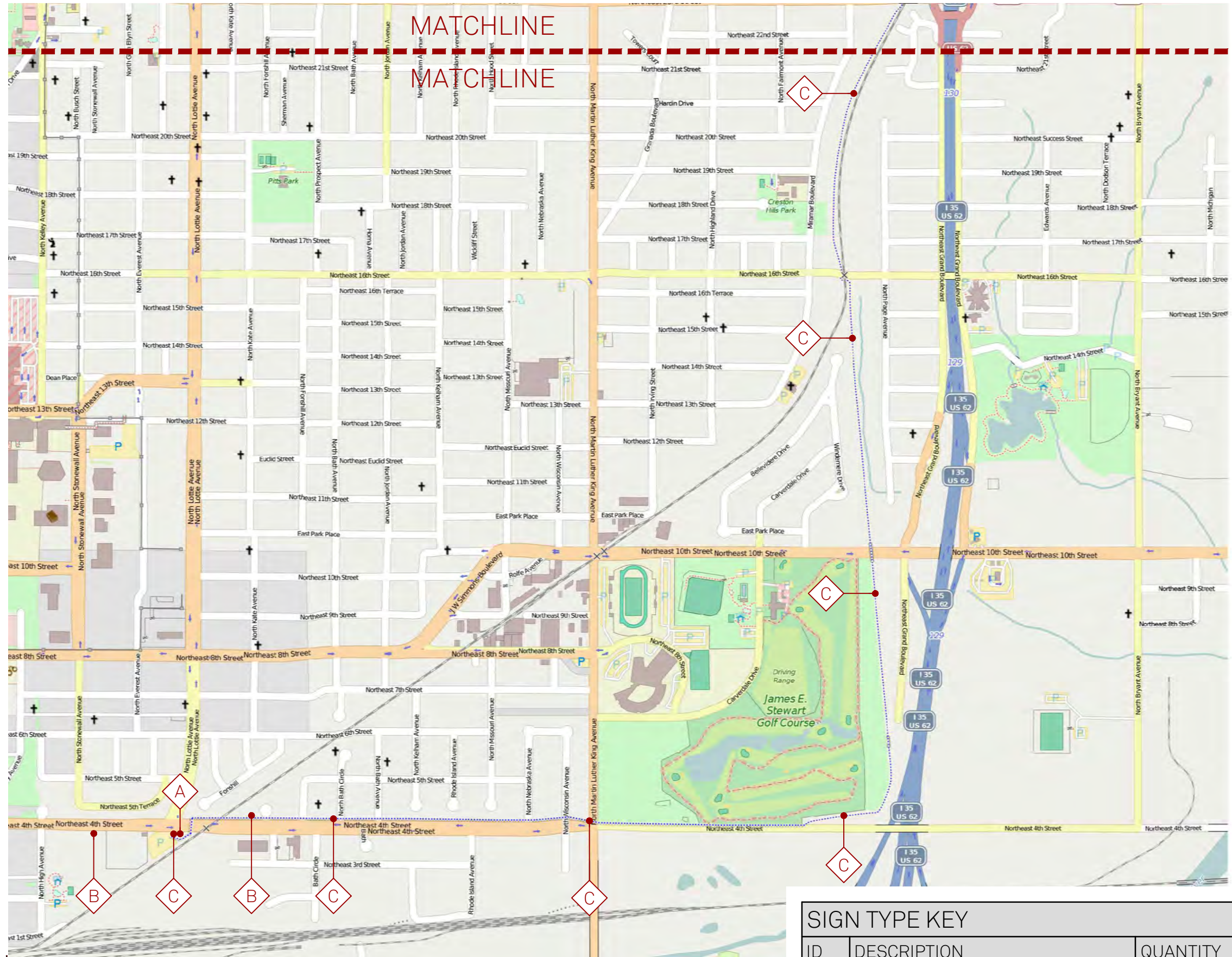
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 405.842.1066

Drawn By: NLC  
 Checked By: NLC



SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	6
C	TALL PEDESTRIAN DIRECTIONAL SIGN	17

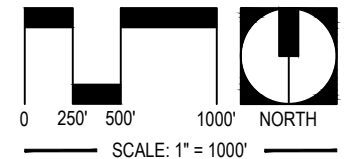


### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: Sign Standards Manual  
 KATY TRAIL - 3 OF 3

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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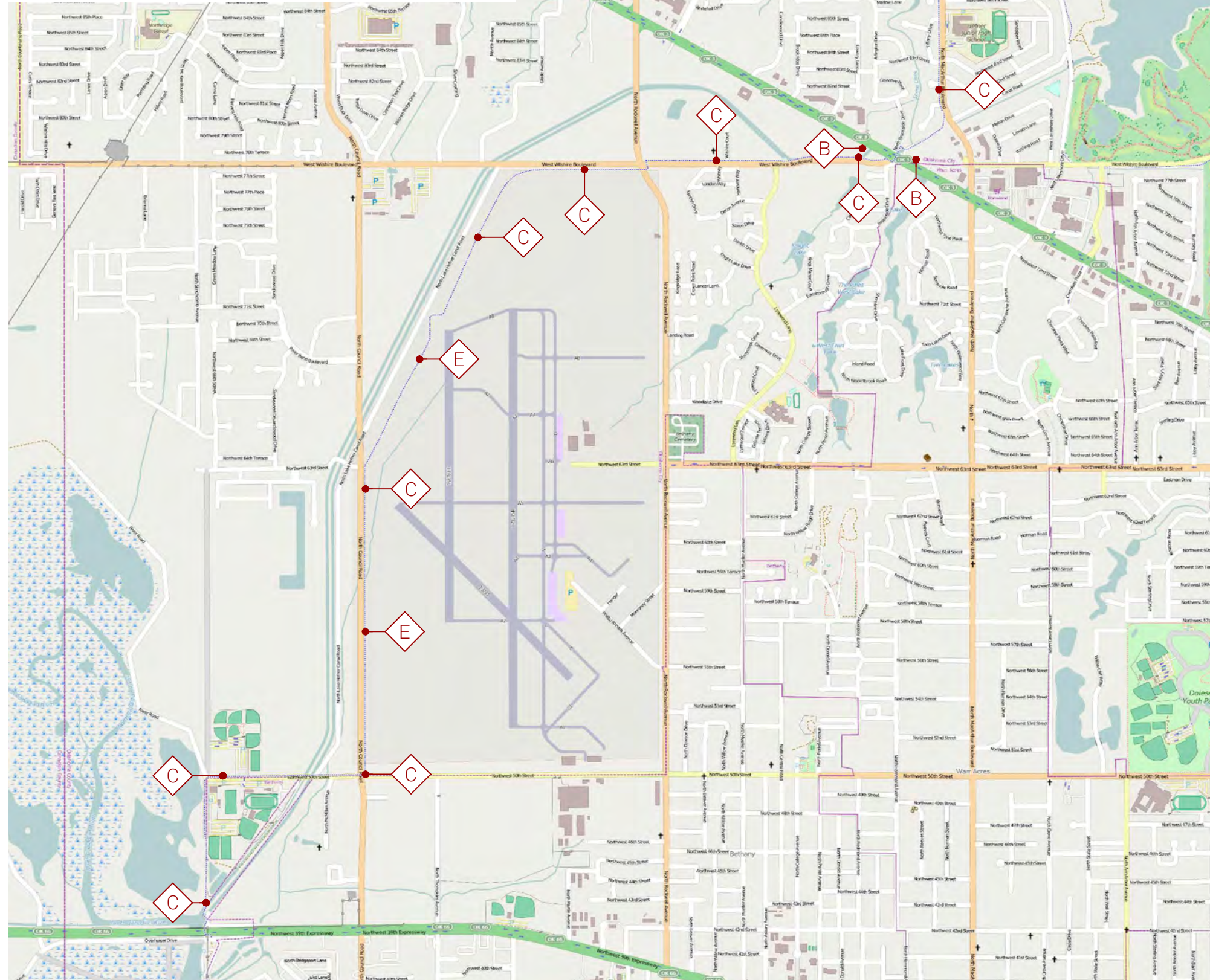
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Contact: Cardinal Engineering, LLC  
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 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

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SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
B	PARKING DIRECTIONAL SIGN	2
C	TALL PEDESTRIAN DIRECTIONAL SIGN	11
E	INTERPRETIVE SIGN	2

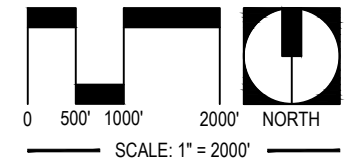


### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 2000'

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Description: Sign Standards Manual  
 LAKE HEFNER-OVERHOLSER TRAIL

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

**DRAFT**  
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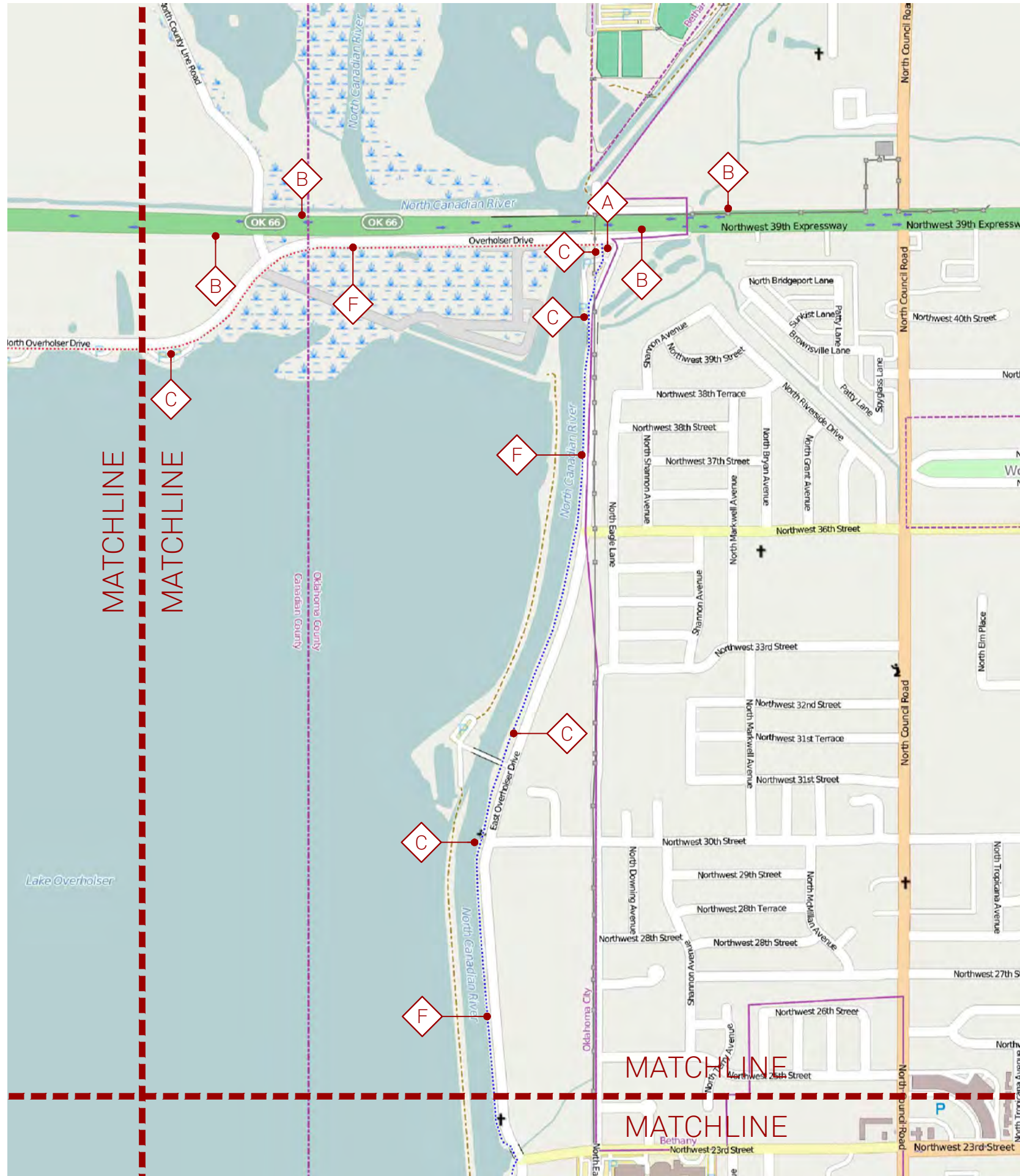
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Drawn By: NLC  
 Checked By: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	3
B	PARKING DIRECTIONAL SIGN	12
C	TALL PEDESTRIAN DIRECTIONAL SIGN	21
E	INTERPRETIVE SIGN	2
F	MILE MARKER	7

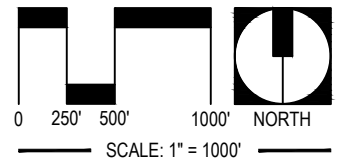


## Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: Sign Standards Manual

LAKE OVERHOLSER TRAIL - NORTHEAST

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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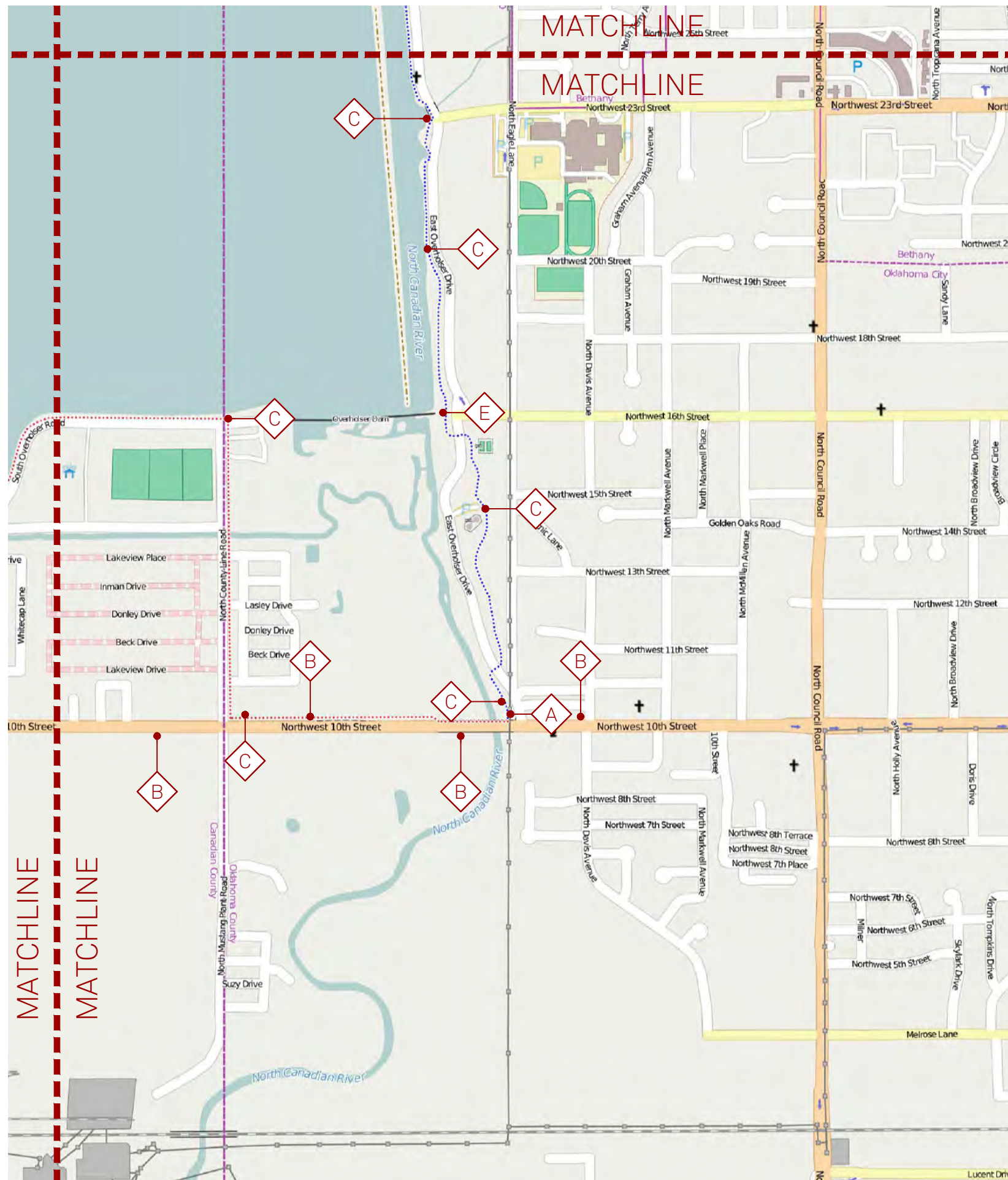
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 405.842.1066

Drawn By: NLC

Checked By: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	3
B	PARKING DIRECTIONAL SIGN	12
C	TALL PEDESTRIAN DIRECTIONAL SIGN	21
E	INTERPRETIVE SIGN	2
F	MILE MARKER	7

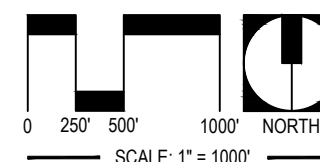


### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for sale discrepancies caused by reduced or enlarged plan reproductions.



Description: Sign Standards Manual

LAKE OVERHOLSER TRAIL - SOUTHEAST

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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The content of this document is subject to the design intent requirements outlined in the specifications.

Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	3
B	PARKING DIRECTIONAL SIGN	12
C	TALL PEDESTRIAN DIRECTIONAL SIGN	21
E	INTERPRETIVE SIGN	2
F	MILE MARKER	7

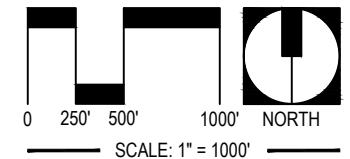


## Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: Sign Standards Manual

LAKE OVERHOLSER TRAIL -  
 SOUTHWEST

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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 CONSTRUCTION

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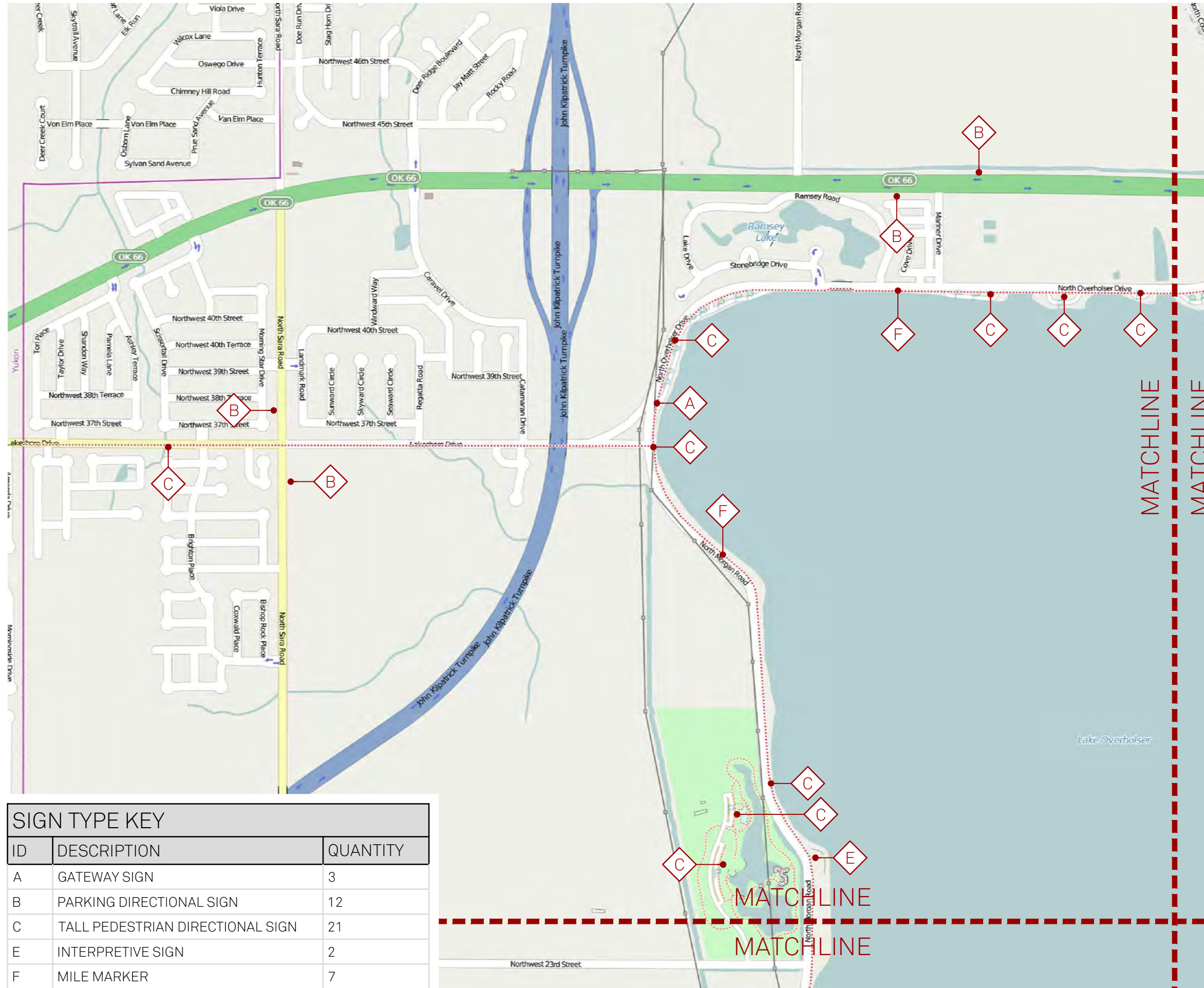
The content of this document is subject to the design intent requirements outlined in the specifications.

Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC

Checked By: NLC

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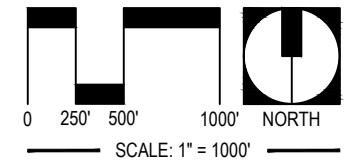


### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for sale discrepancies caused by reduced or enlarged plan reproductions.



Description: Sign Standards Manual

LAKE OVERHOLSER TRAIL - NORTHWEST

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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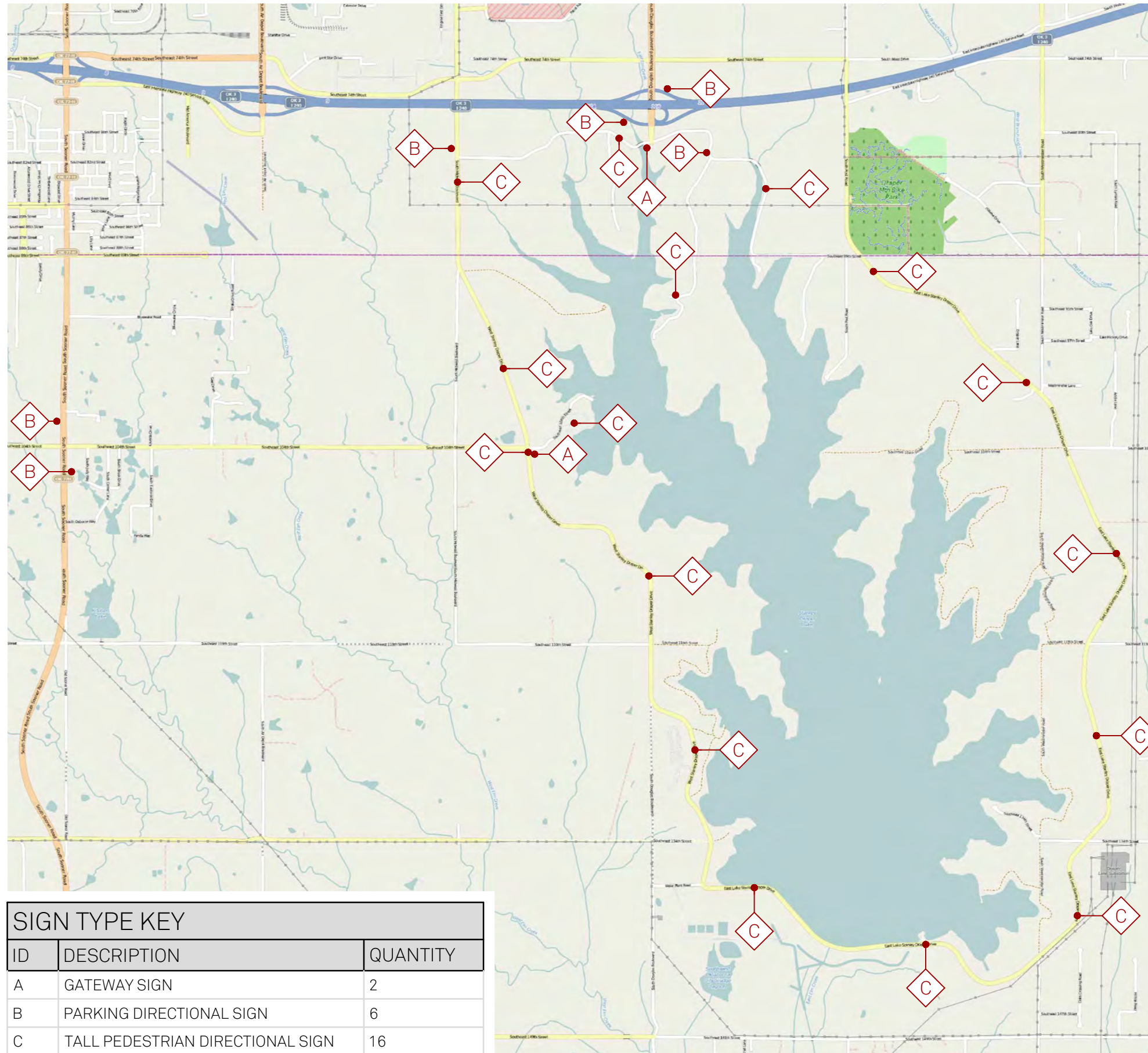
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Contact: Cardinal Engineering, LLC  
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 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC

Checked By: NLC



SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	6
C	TALL PEDESTRIAN DIRECTIONAL SIGN	16

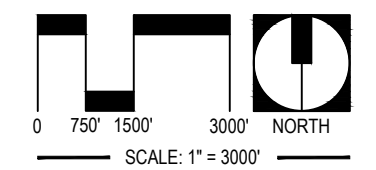


### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 3000'

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Description: Sign Standards Manual  
 LAKE STANLEY DRAPER TRAIL

Original Issue Date: 12.05.2014

Revision:

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Drawn By: NLC  
 Checked By: NLC

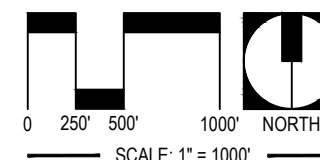


Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'

Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for scale discrepancies caused by reduced or enlarged plan reproductions.



Description: Sign Standards Manual

LIGHTNING CREEK TRAIL - 1 OF 3

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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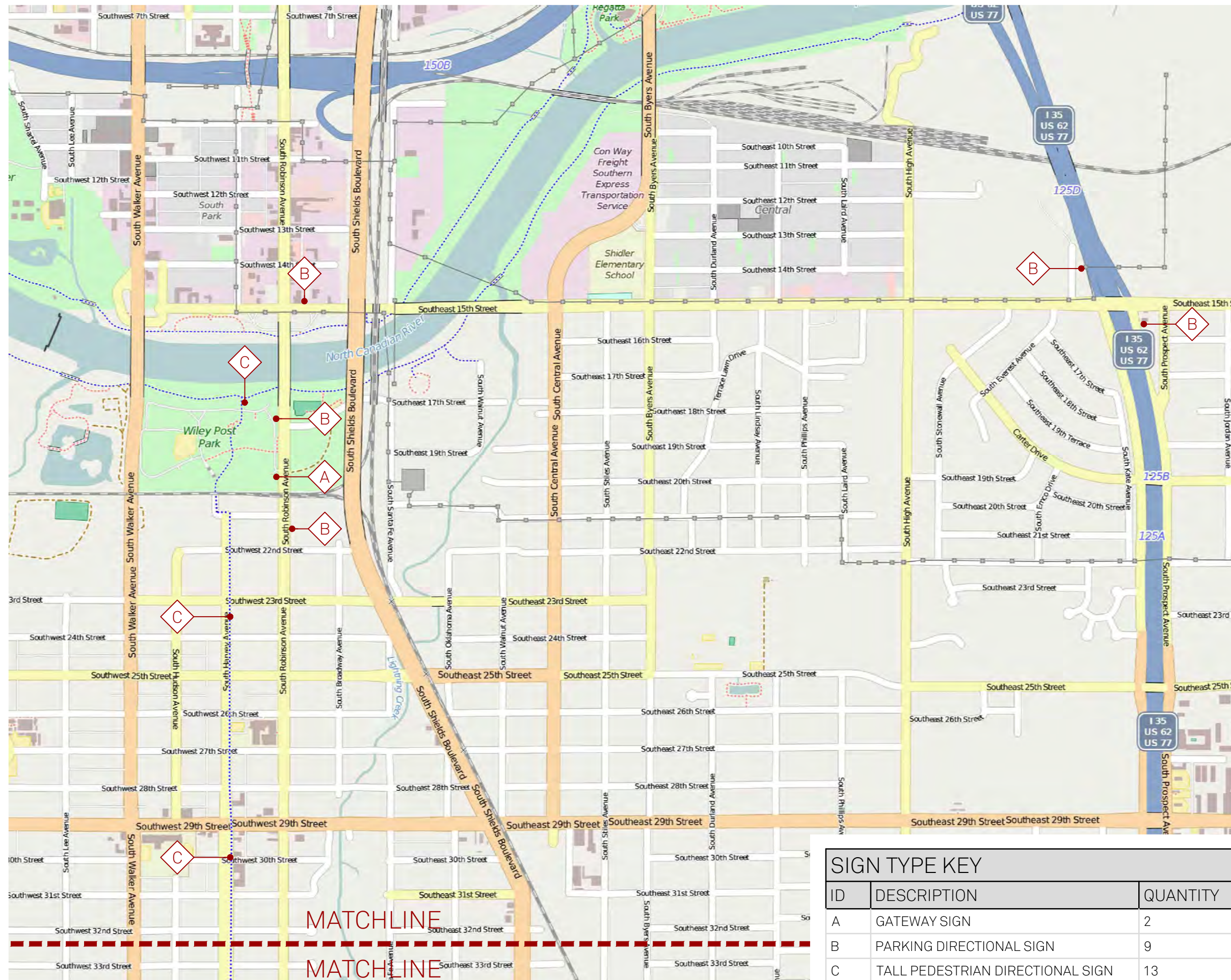
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Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Drawn By: NLC

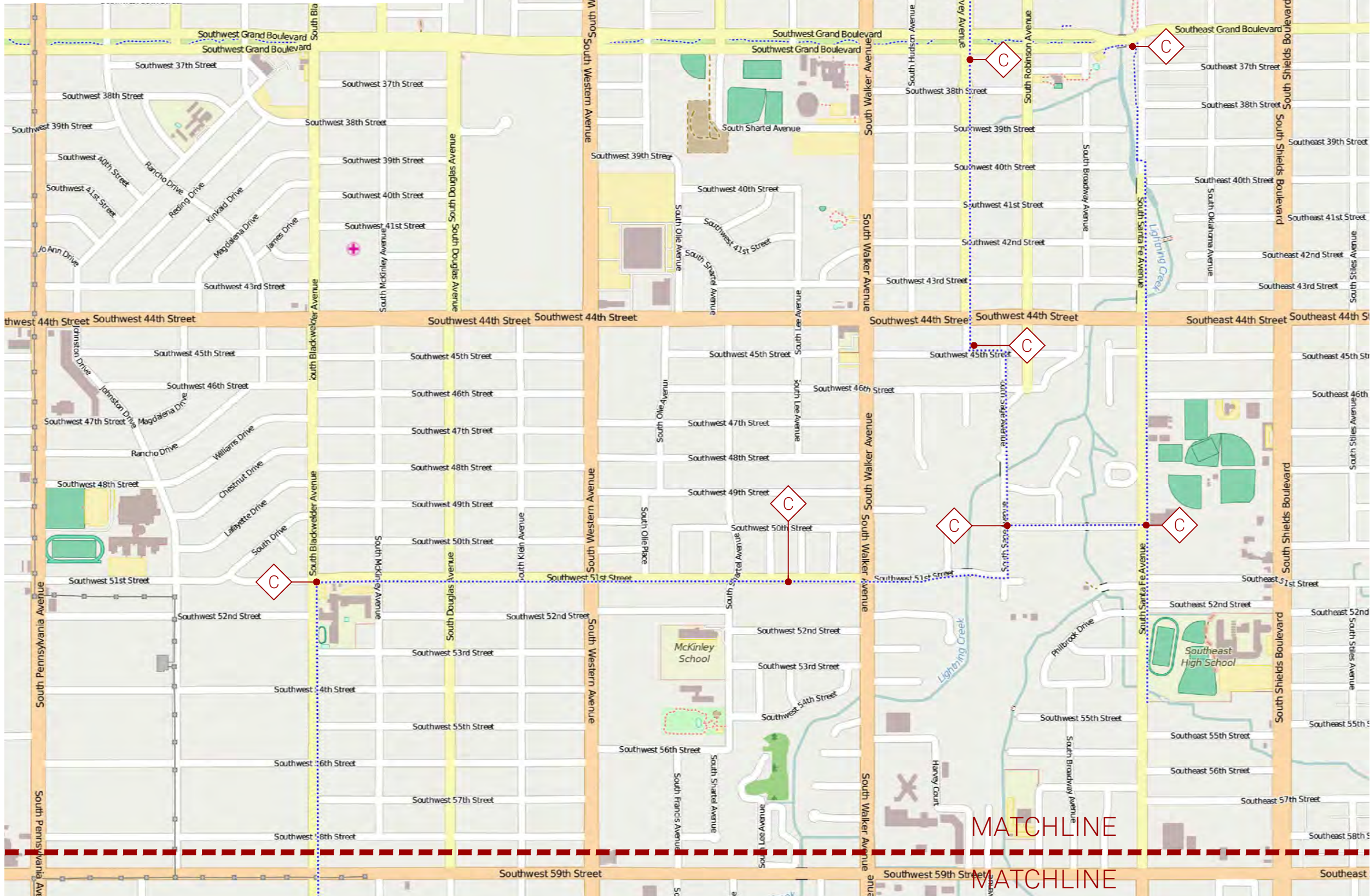
Checked By: NLC



**SIGN TYPE KEY**

ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	9
C	TALL PEDESTRIAN DIRECTIONAL SIGN	13

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	9
C	TALL PEDESTRIAN DIRECTIONAL SIGN	13

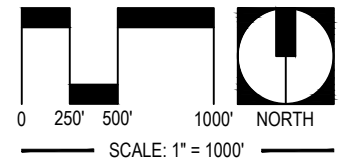


### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: Sign Standards Manual  
 LIGHTNING CREEK TRAIL - 2 OF 3

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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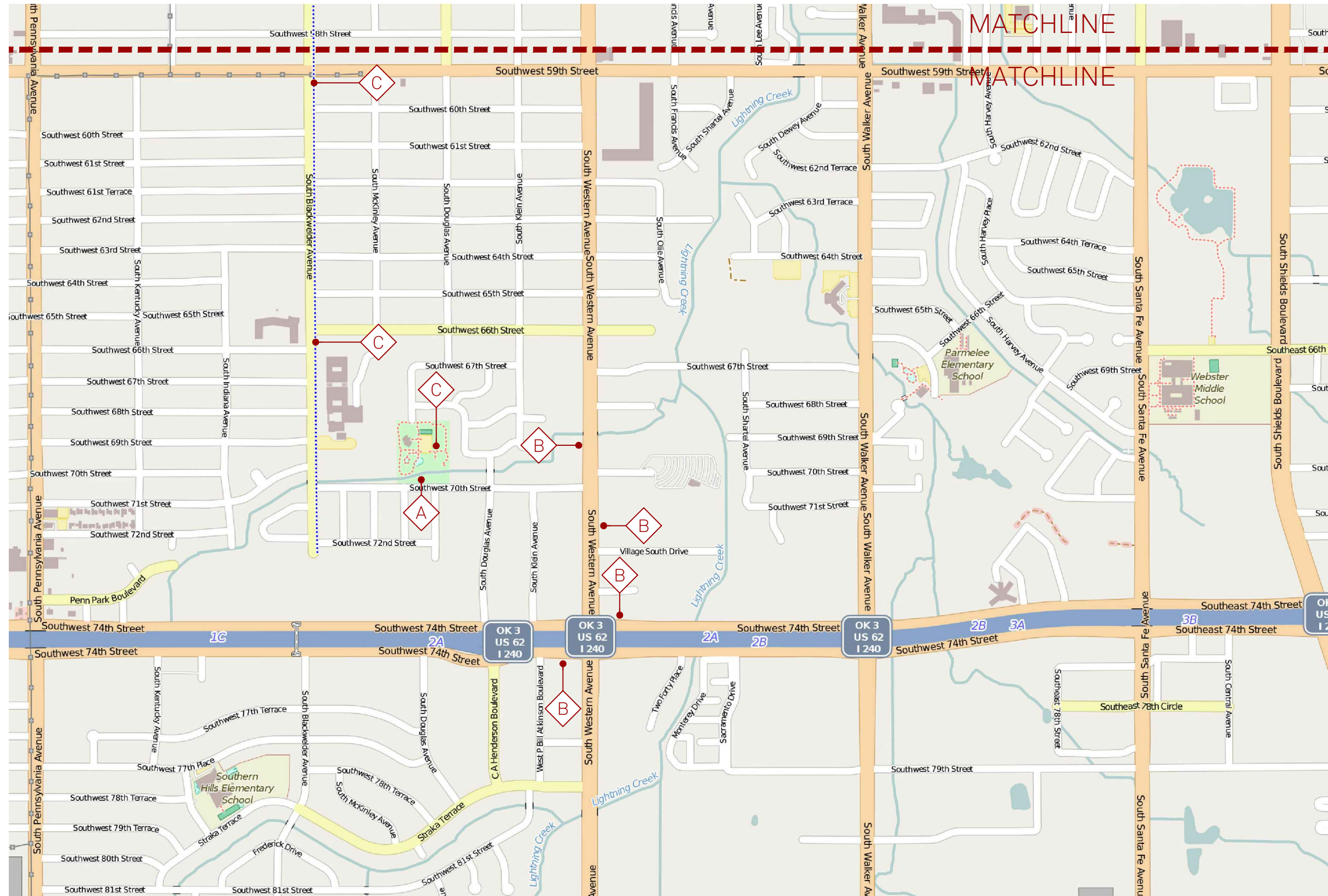
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Contact: Cardinal Engineering, LLC  
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 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

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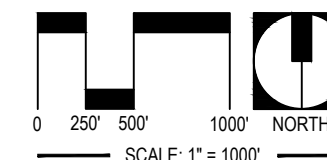


### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for scale discrepancies caused by reduced or enlarged plan reproductions.



Description: Sign Standards Manual  
 LIGHTNING CREEK TRAIL - 3 OF 3

Original Issue Date: 12.05.2014

Revision:

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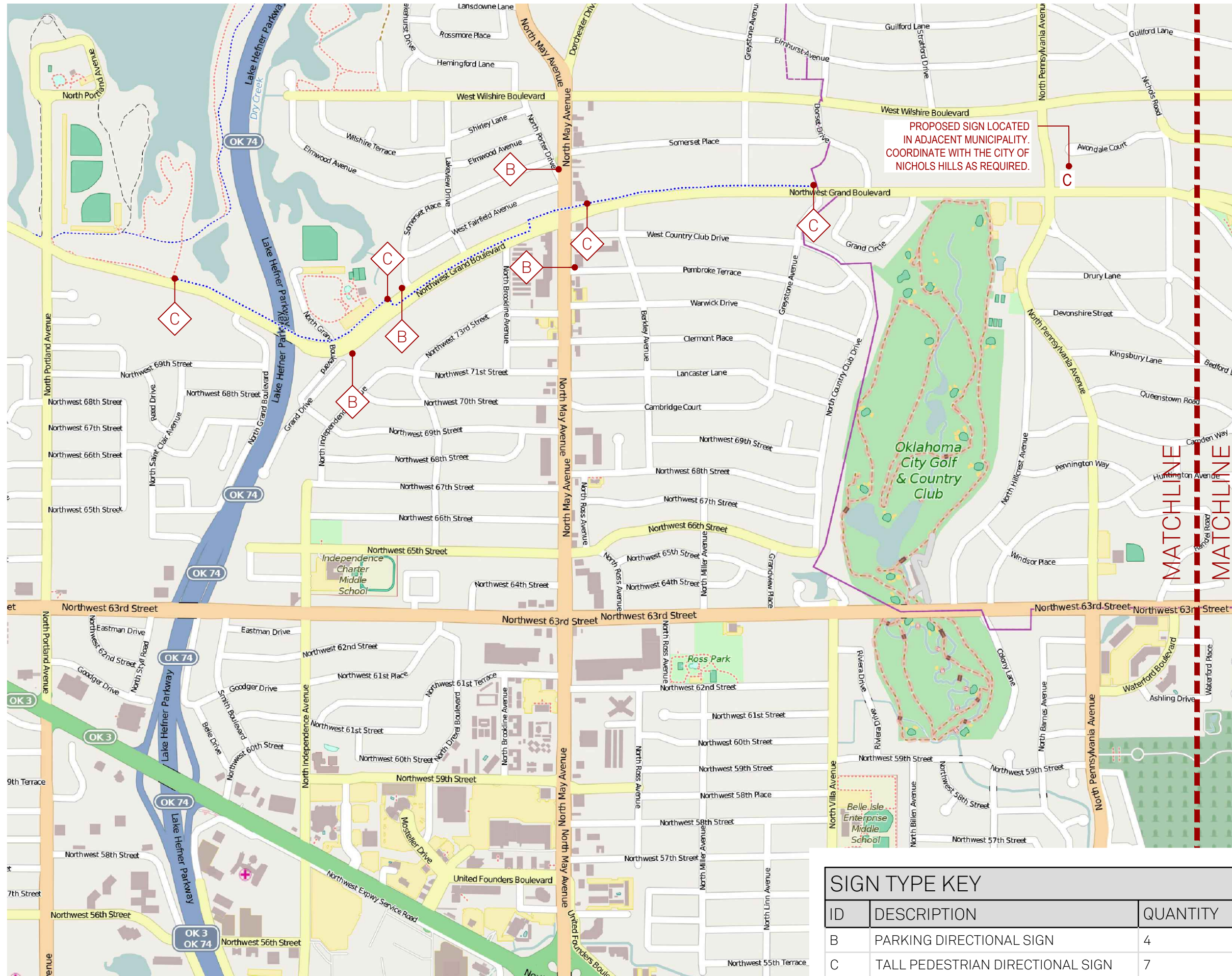
Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

### SIGN TYPE KEY

ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	9
C	TALL PEDESTRIAN DIRECTIONAL SIGN	13

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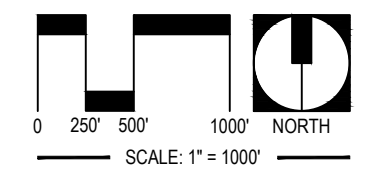
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### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: Sign Standards Manual  
 NORTH GRAND BOULEVARD TRAIL - 1 OF 2

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

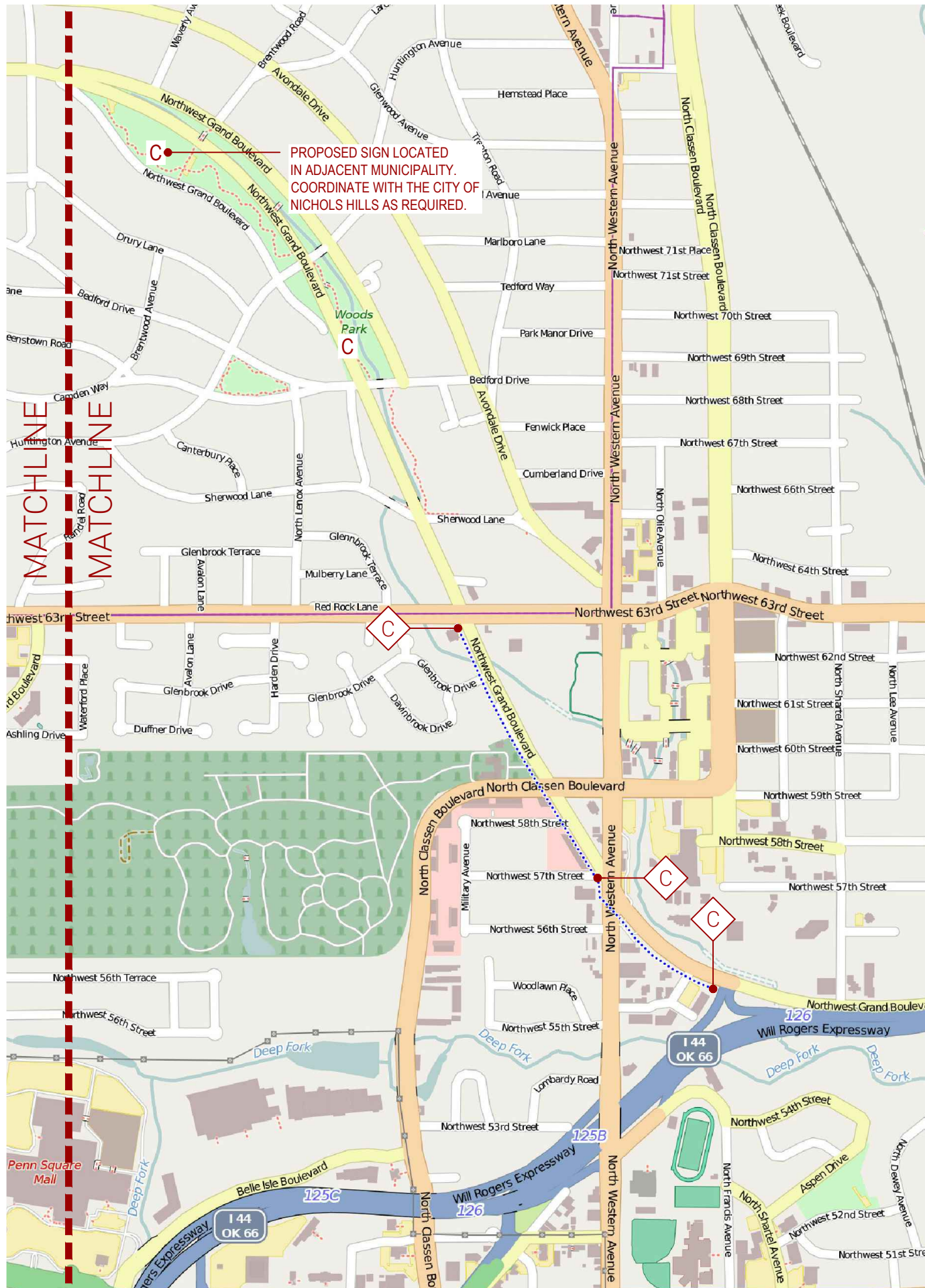
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
B	PARKING DIRECTIONAL SIGN	4
C	TALL PEDESTRIAN DIRECTIONAL SIGN	7

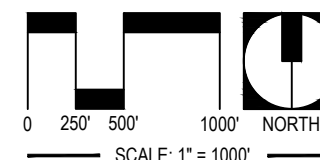


## Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: Sign Standards Manual  
 NORTH GRAND BOULEVARD TRAIL - 2 OF 2

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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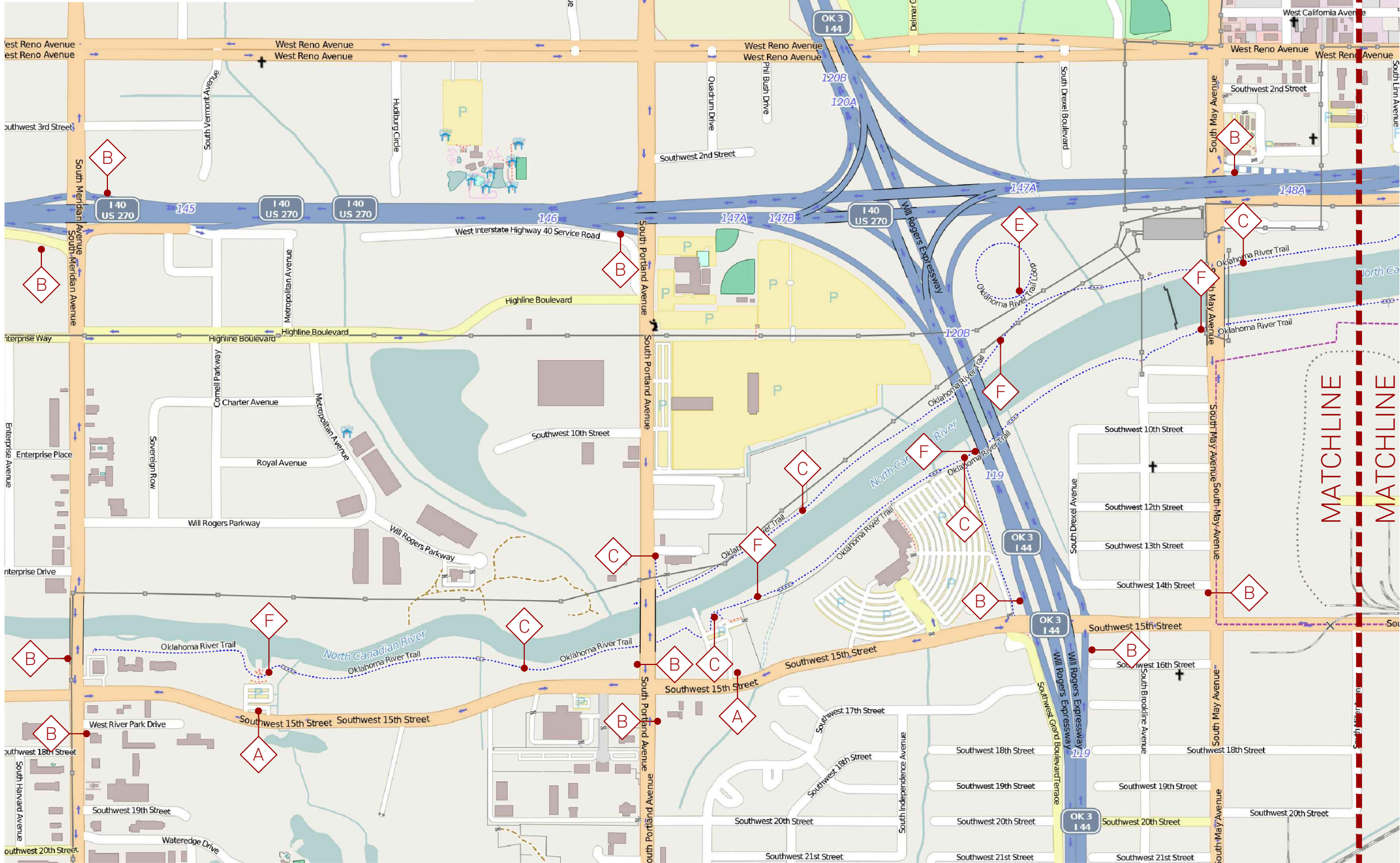
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 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

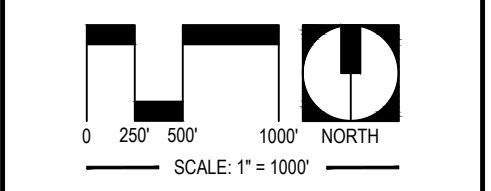
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A	GATEWAY SIGN	7
B	PARKING DIRECTIONAL SIGN	27
C	TALL PEDESTRIAN DIRECTIONAL SIGN	26
E	INTERPRETIVE SIGN	5
F	MILE MARKER	16



### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'  
 Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for sale discrepancies caused by reduced or enlarged plan reproductions.



Description: Sign Standards Manual  
 OKLAHOMA RIVER TRAILS - 1 OF 3

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:  
**DRAFT**  
**NOT FOR BIDDING OR CONSTRUCTION**

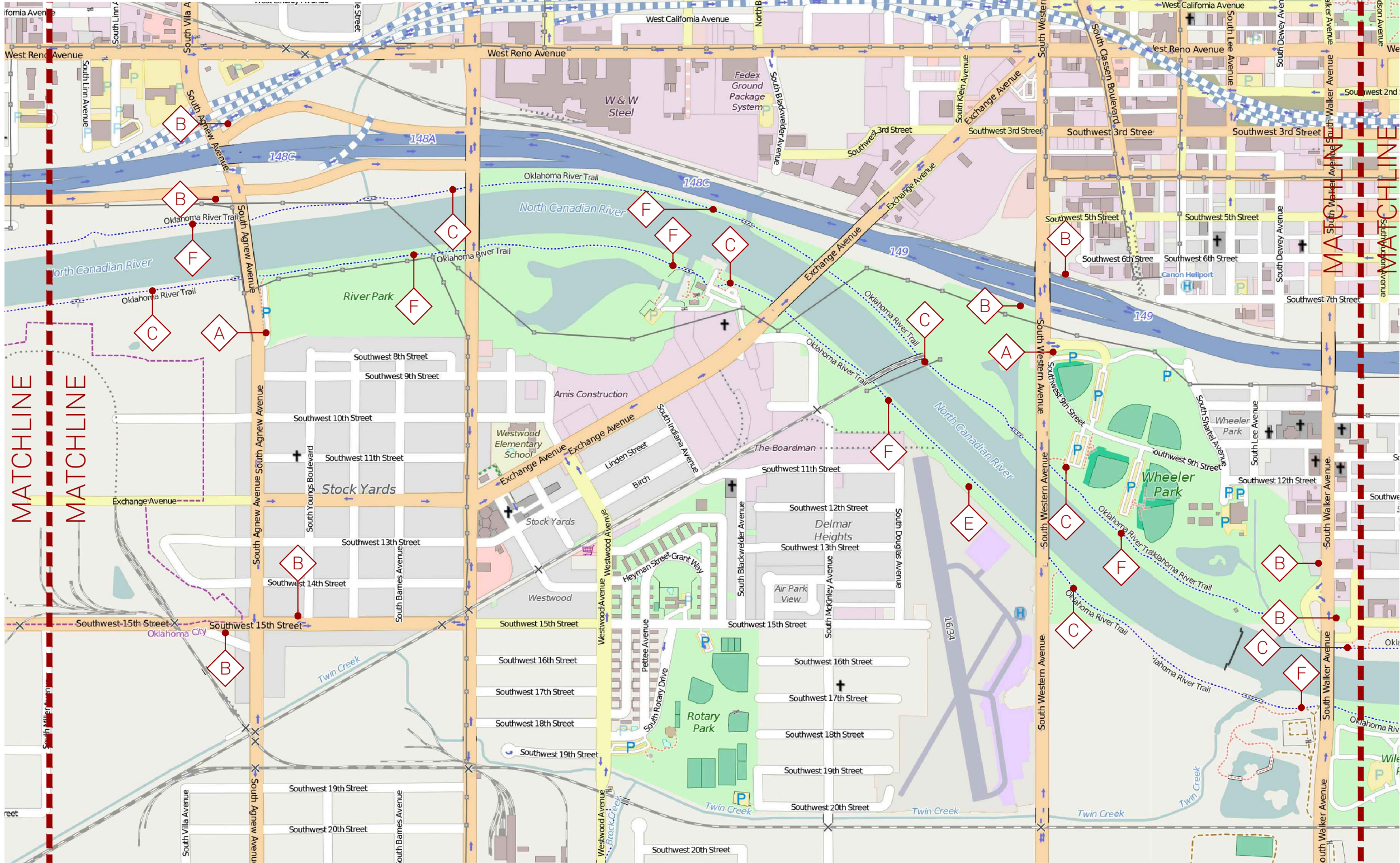
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

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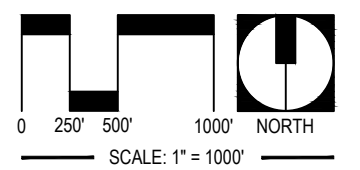
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ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	7
B	PARKING DIRECTIONAL SIGN	27
C	TALL PEDESTRIAN DIRECTIONAL SIGN	26
E	INTERPRETIVE SIGN	5
F	MILE MARKER	16



## Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: Sign Standards Manual  
 OKLAHOMA RIVER TRAILS - 2 OF 3

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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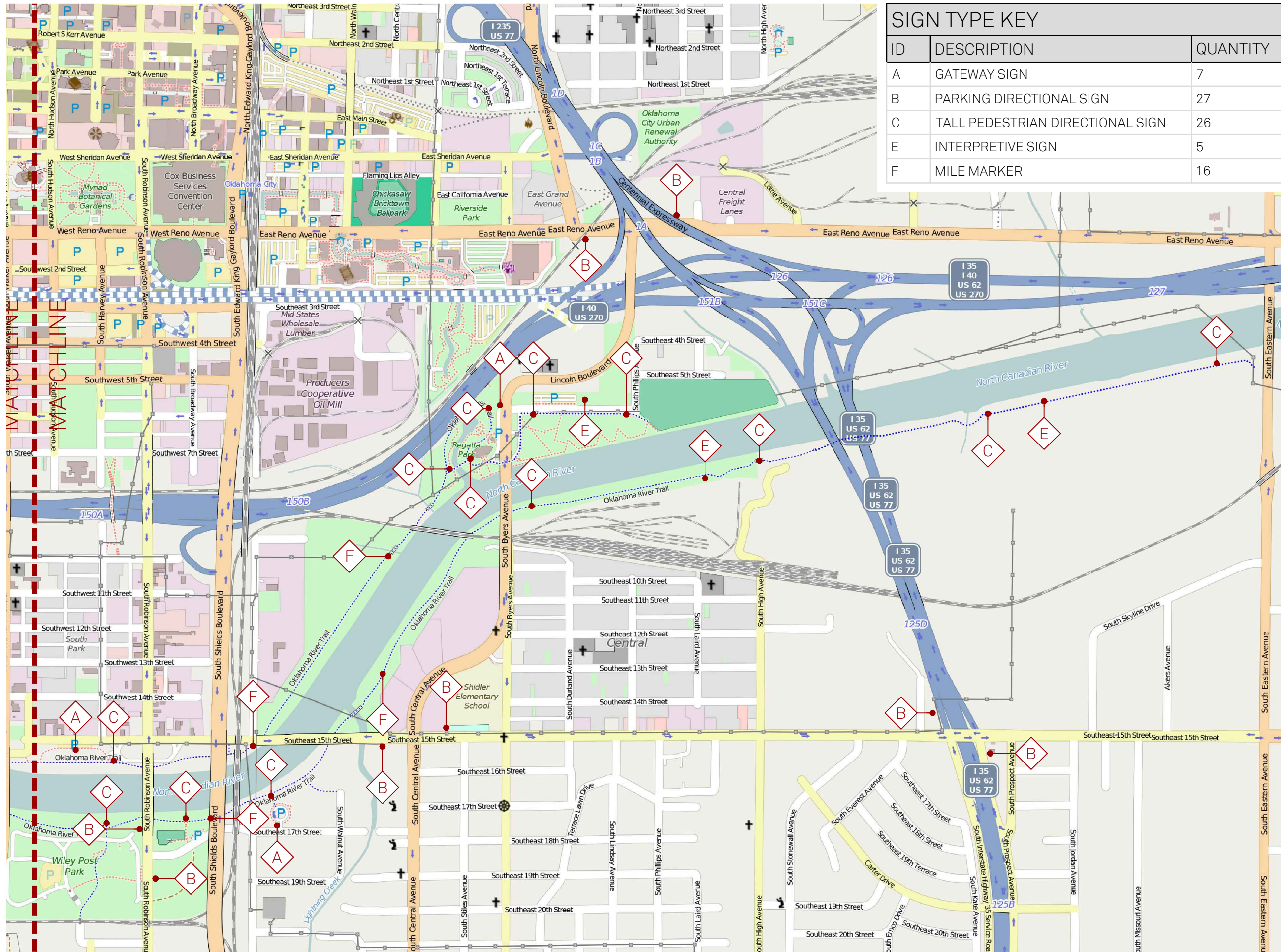
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
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 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC  
 Checked By: NLC

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### SIGN TYPE KEY

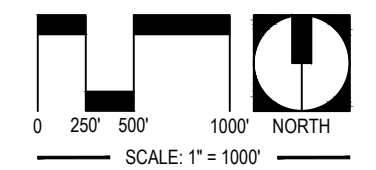
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B	PARKING DIRECTIONAL SIGN	27
C	TALL PEDESTRIAN DIRECTIONAL SIGN	26
E	INTERPRETIVE SIGN	5
F	MILE MARKER	16



### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: Sign Standards Manual  
 OKLAHOMA RIVER TRAILS - 3 OF 3

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

**DRAFT**  
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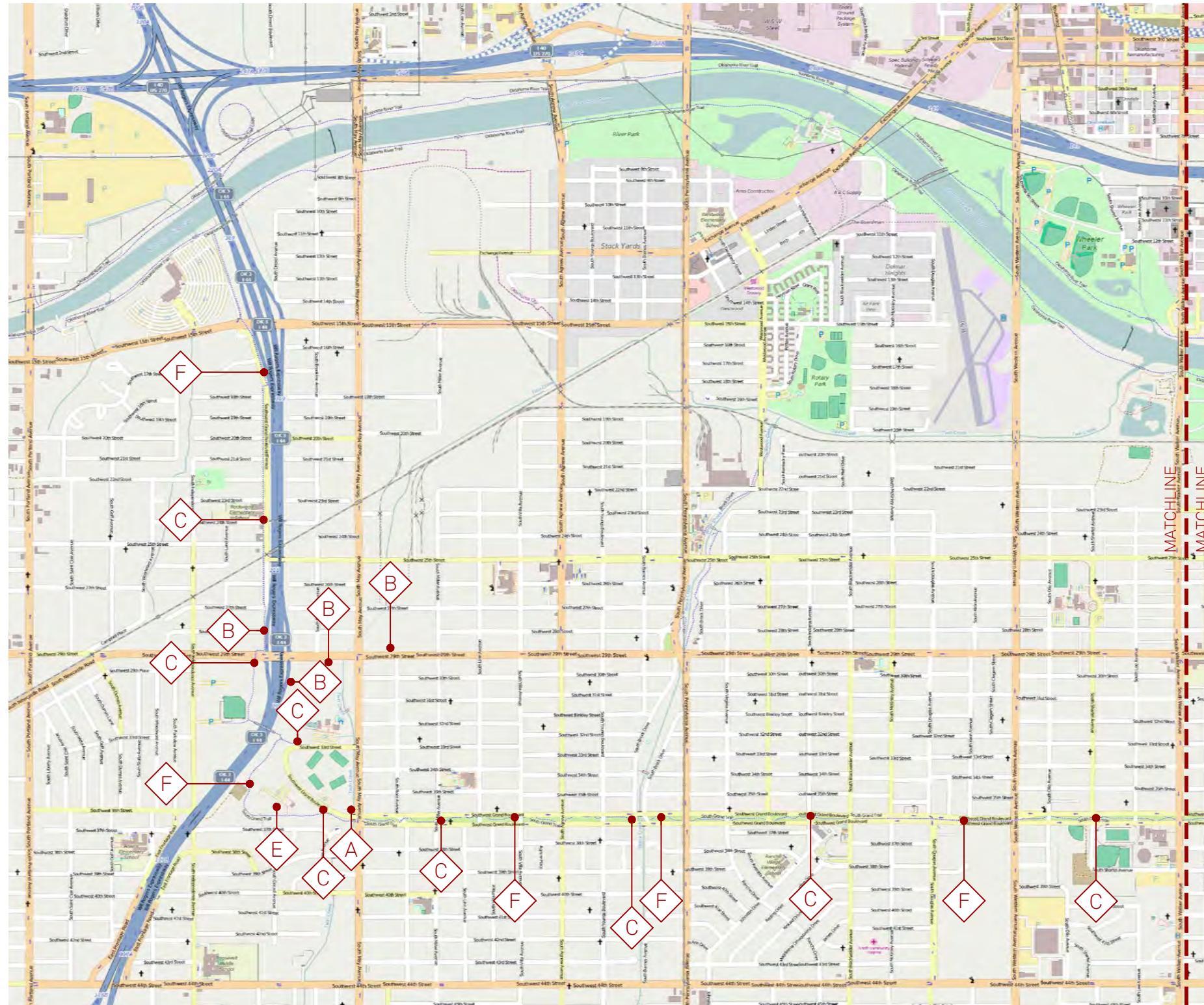
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 1015 N. Broadway Ave.  
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 Oklahoma City, OK 73102  
 405.842.1066

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 Checked By: NLC





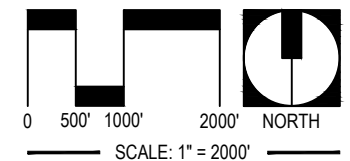
SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	3
B	PARKING DIRECTIONAL SIGN	11
C	TALL PEDESTRIAN DIRECTIONAL SIGN	17
E	INTERPRETIVE SIGN	4
F	MILE MARKER	11



### Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 2000'  
 Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for sale discrepancies caused by reduced or enlarged plan reproductions.



Description: Sign Standards Manual  
 SOUTH GRAND BOULEVARD TRAIL - 1 OF 2

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

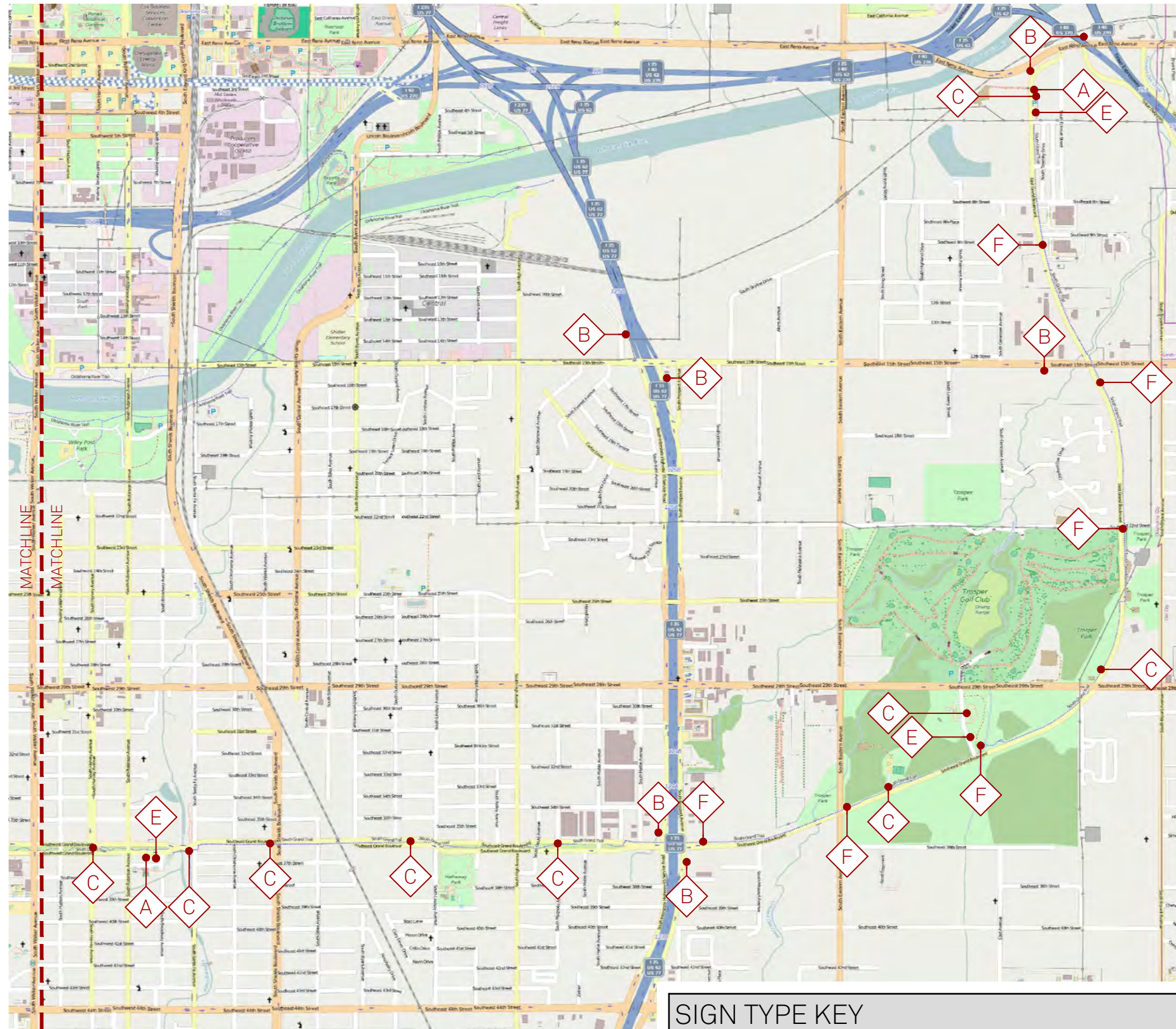
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 Suite 300  
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 405.842.1066

Drawn By: NLC  
 Checked By: NLC



**SIGN TYPE KEY**

ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	3
B	PARKING DIRECTIONAL SIGN	11
C	TALL PEDESTRIAN DIRECTIONAL SIGN	17
E	INTERPRETIVE SIGN	4
F	MILE MARKER	11

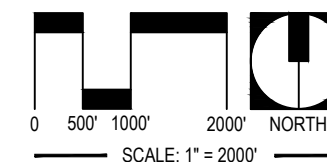


**Wayfinding Master Plan for Oklahoma City Trails (MP-0451)**

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 2000'

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Description: Sign Standards Manual

SOUTH GRAND BOULEVARD TRAIL - 2 OF 2

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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Contact: Cardinal Engineering, LLC  
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 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

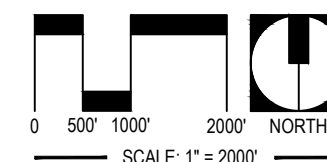
Drawn By: NLC  
 Checked By: NLC

Wayfinding Master Plan for  
 Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 2000'

Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for sale discrepancies caused by reduced or enlarged plan reproductions.



Description: Sign Standards Manual

TINKER-DRAPER TRAIL - 1 OF 2

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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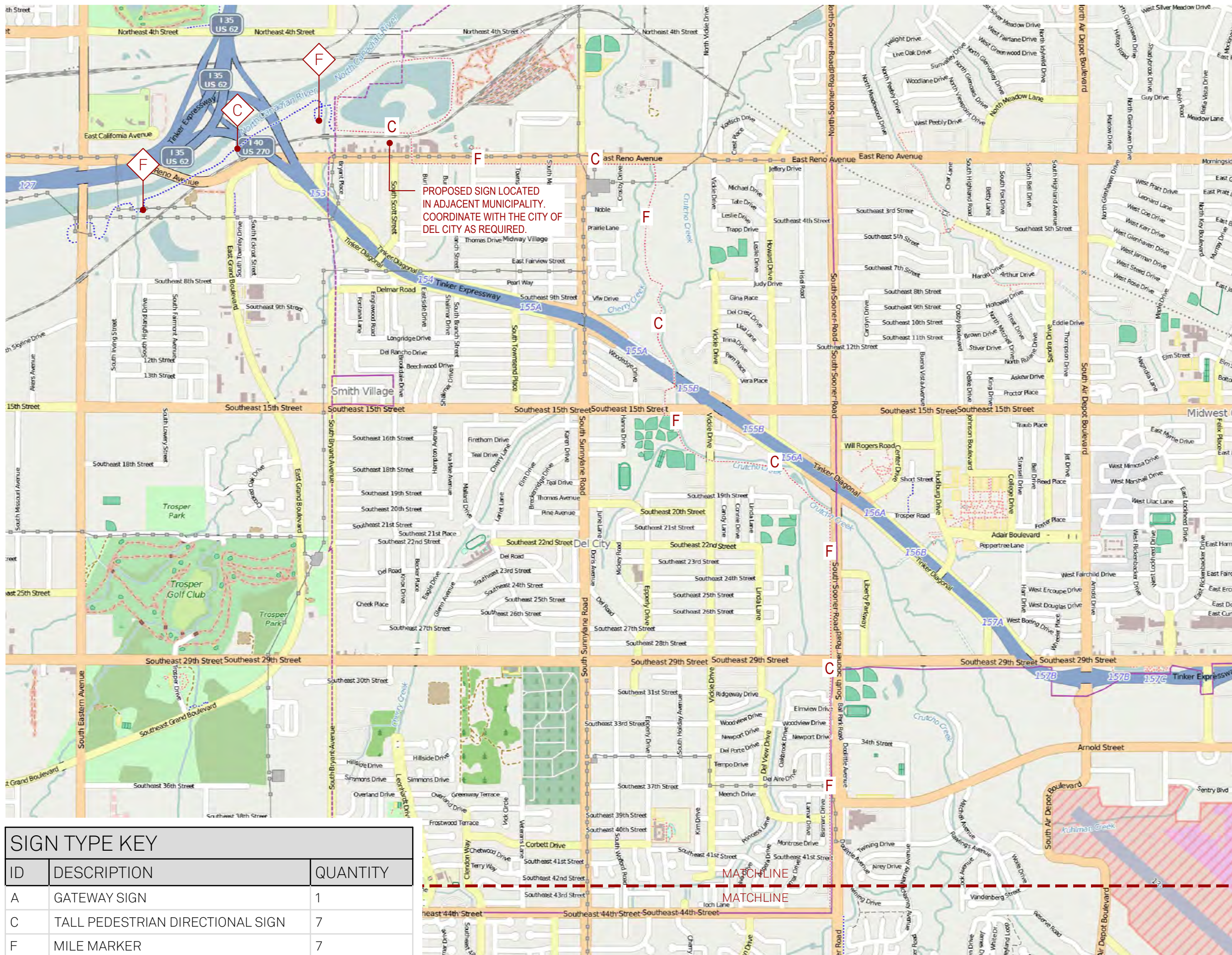
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
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 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC

Checked By: NLC

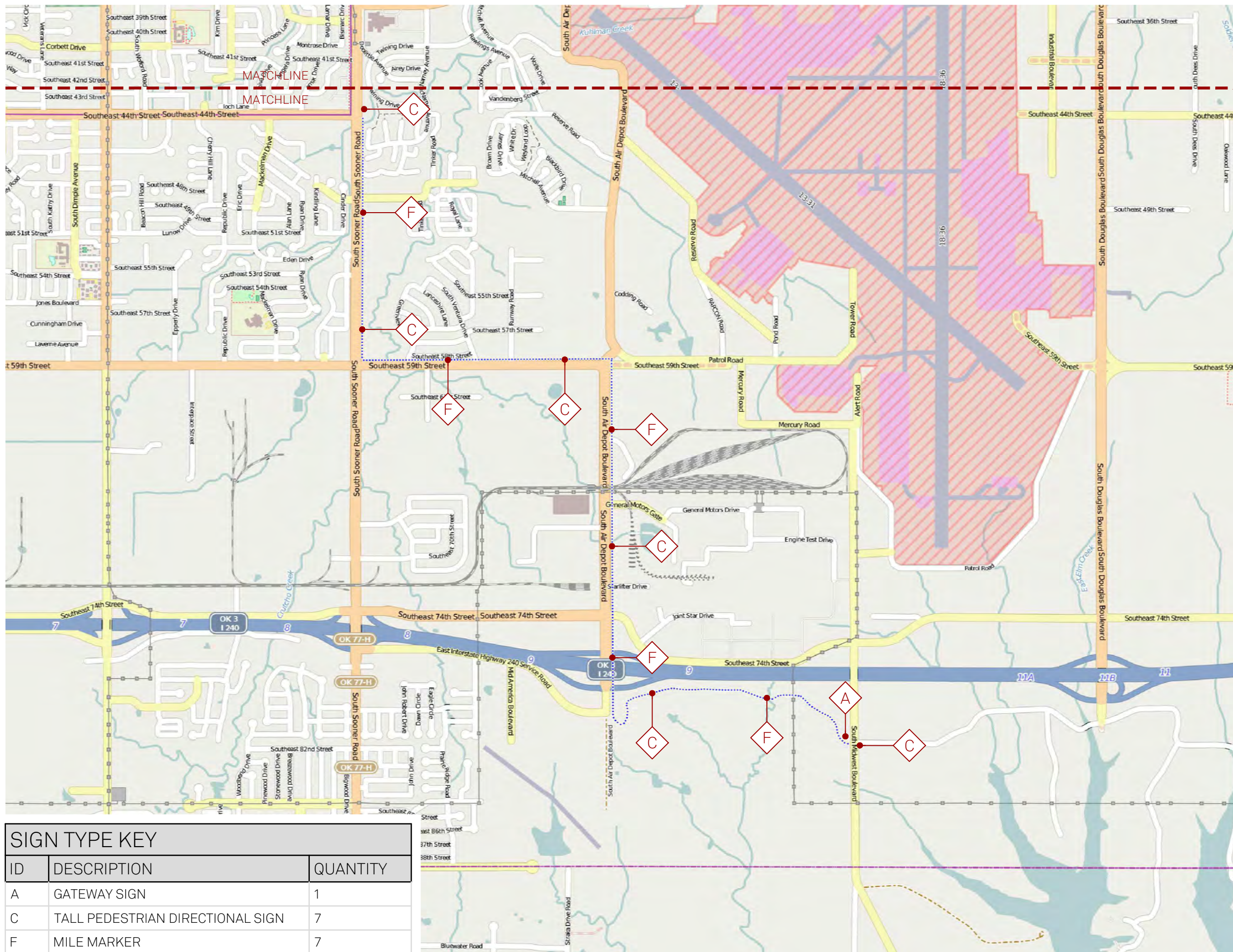


PROPOSED SIGN LOCATED  
 IN ADJACENT MUNICIPALITY.  
 COORDINATE WITH THE CITY OF  
 DEL CITY AS REQUIRED.

**SIGN TYPE KEY**

ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	1
C	TALL PEDESTRIAN DIRECTIONAL SIGN	7
F	MILE MARKER	7

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SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	1
C	TALL PEDESTRIAN DIRECTIONAL SIGN	7
F	MILE MARKER	7

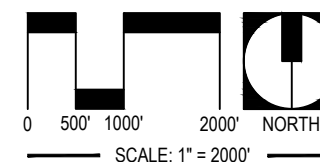


## Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 2000'

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Description: Sign Standards Manual  
 TINKER-DRAPER TRAIL - 2 OF 2

Original Issue Date: 12.05.2014

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Contact: Cardinal Engineering, LLC  
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 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

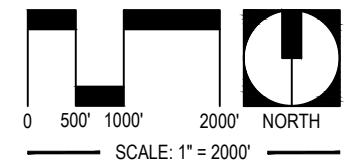
Drawn By: NLC  
 Checked By: NLC

# Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 2000'

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Description: Sign Standards Manual

WEST RIVER TRAIL

Original Issue Date: 12.05.2014

Revision:

Signature/Seal:

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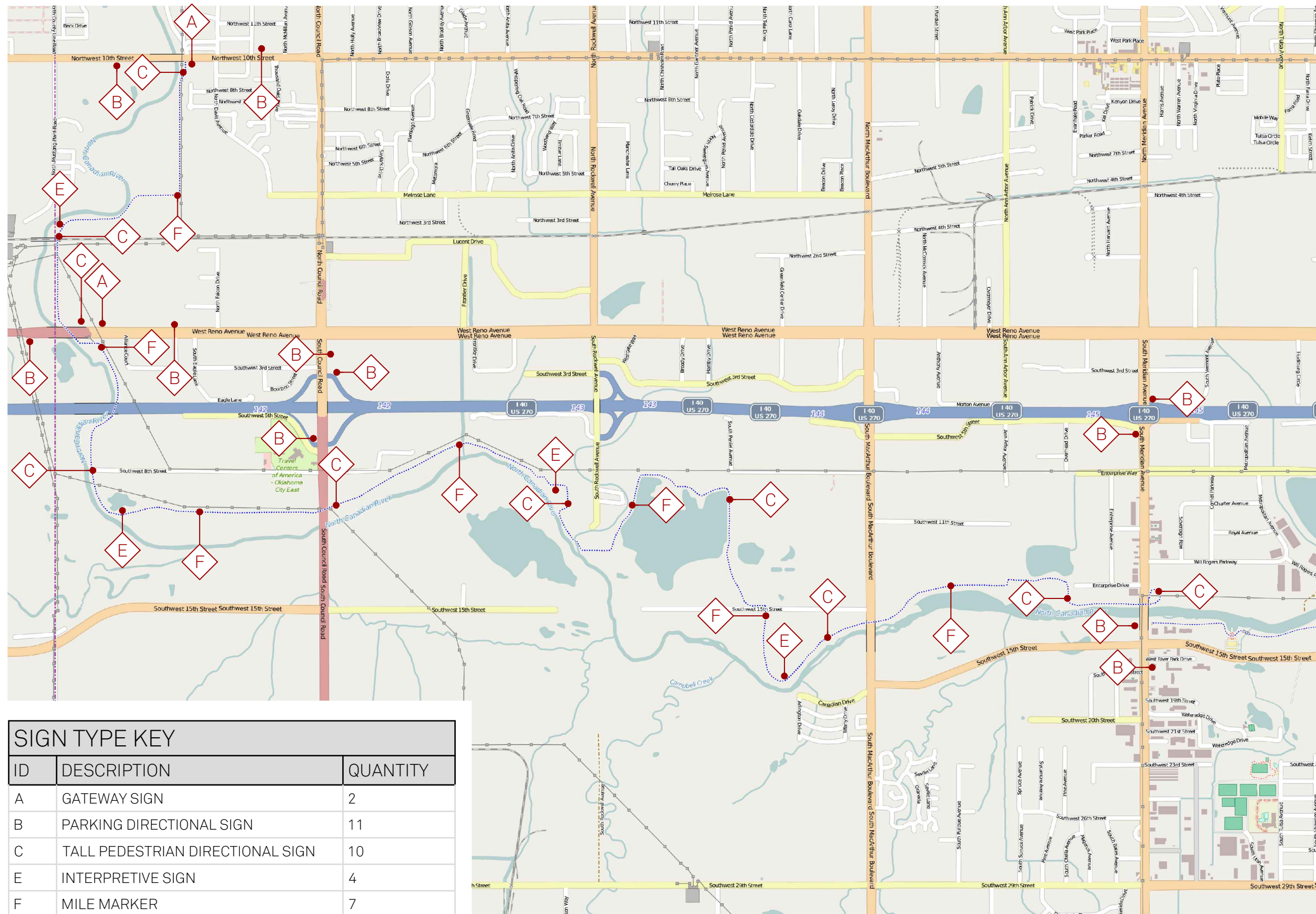
These drawings express visual design intent only. Final engineering, materials, and fabrication shall remain the responsibility of the Fabricator.

The content of this document is subject to the design intent requirements outlined in the specifications.

Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Drawn By: NLC

Checked By: NLC



SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	11
C	TALL PEDESTRIAN DIRECTIONAL SIGN	10
E	INTERPRETIVE SIGN	4
F	MILE MARKER	7

### BERT COOPER TRAILS

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
A - Gateway	\$12,000	4	\$48,000
B - Vehicular Parking Directional	\$1,000	19	\$19,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	13	\$39,000
D - Small Pedestrian Directional Sign/Mile Marker	\$2,500	4	\$10,000
E - Interpretive Sign	\$3,000	3	\$9,000
F - Mile Markers, Embedded	\$800	19	\$15,200
<b>SUBTOTAL</b>			<b>\$140,200</b>
<b>CONTINGENCY (20%)</b>			<b>\$28,040</b>
<b>TOTAL</b>			<b>\$168,240</b>

### BROCK TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
B - Vehicular Parking Directional	\$1,000	4	\$4,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	4	\$12,000
<b>SUBTOTAL</b>			<b>\$16,000</b>
<b>CONTINGENCY (20%)</b>			<b>\$3,200</b>
<b>TOTAL</b>			<b>\$19,200</b>

### BRICKTOWN CANAL TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
A - Gateway	\$12,000	1	\$12,000
B - Vehicular Parking Directional	\$1,000	6	\$6,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	10	\$30,000
E - Interpretive Sign	\$3,000	2	\$6,000
<b>SUBTOTAL</b>			<b>\$54,000</b>
<b>CONTINGENCY (20%)</b>			<b>\$10,800</b>
<b>TOTAL</b>			<b>\$64,800</b>

### EARLYWINE TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
B - Vehicular Parking Directional	\$1,000	2	\$2,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	7	\$21,000
<b>SUBTOTAL</b>			<b>\$23,000</b>
<b>CONTINGENCY (20%)</b>			<b>\$4,600</b>
<b>TOTAL</b>			<b>\$27,600</b>

### I-44 TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	18	\$54,000
		<b>SUBTOTAL</b>	<b>\$54,000</b>
		<b>CONTINGENCY (20%)</b>	<b>\$10,800</b>
		<b>TOTAL</b>	<b>\$64,800</b>

### LAKE HEFNER-OVERHOLSER TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
B - Vehicular Parking Directional	\$1,000	2	\$2,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	11	\$33,000
E - Interpretive Sign	\$3,000	2	\$6,000
		<b>SUBTOTAL</b>	<b>\$41,000</b>
		<b>CONTINGENCY (20%)</b>	<b>\$8,200</b>
		<b>TOTAL</b>	<b>\$49,200</b>

### KATY TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
A - Gateway	\$12,000	2	\$24,000
B - Vehicular Parking Directional	\$1,000	12	\$12,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	21	\$63,000
		<b>SUBTOTAL</b>	<b>\$99,000</b>
		<b>CONTINGENCY (20%)</b>	<b>\$19,800</b>
		<b>TOTAL</b>	<b>\$118,800</b>

### LAKE OVERHOLSER TRAILS

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
A - Gateway	\$12,000	3	\$36,000
B - Vehicular Parking Directional	\$1,000	12	\$12,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	21	\$63,000
E - Interpretive Sign	\$3,000	2	\$6,000
F - Mile Markers, Embedded	\$800	7	\$5,600
		<b>SUBTOTAL</b>	<b>\$122,600</b>
		<b>CONTINGENCY (20%)</b>	<b>\$24,520</b>
		<b>TOTAL</b>	<b>\$147,120</b>

### LAKE STANLEY DRAPER TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
A - Gateway	\$12,000	2	\$24,000
B - Vehicular Parking Directional	\$1,000	6	\$6,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	16	\$48,000
<b>SUBTOTAL</b>			<b>\$78,000</b>
<b>CONTINGENCY (20%)</b>			<b>\$15,600</b>
<b>TOTAL</b>			<b>\$93,600</b>

### NORTH GRAND BOULEVARD TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
B - Vehicular Parking Directional	\$1,000	4	\$4,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	7	\$21,000
<b>SUBTOTAL</b>			<b>\$25,000</b>
<b>CONTINGENCY (20%)</b>			<b>\$5,000</b>
<b>TOTAL</b>			<b>\$30,000</b>

### LIGHTNING CREEK TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
A - Gateway	\$12,000	2	\$24,000
B - Vehicular Parking Directional	\$1,000	9	\$9,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	13	\$39,000
<b>SUBTOTAL</b>			<b>\$72,000</b>
<b>CONTINGENCY (20%)</b>			<b>\$14,400</b>
<b>TOTAL</b>			<b>\$86,400</b>

### OKLAHOMA RIVER TRAILS

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
A - Gateway	\$12,000	7	\$84,000
B - Vehicular Parking Directional	\$1,000	27	\$27,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	26	\$78,000
E - Interpretive Sign	\$3,000	5	\$15,000
F - Mile Markers, Embedded	\$800	16	\$12,800
<b>SUBTOTAL</b>			<b>\$216,800</b>
<b>CONTINGENCY (20%)</b>			<b>\$43,360</b>
<b>TOTAL</b>			<b>\$260,160</b>



### SOUTH GRAND BOULEVARD TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
A - Gateway	\$12,000	3	\$36,000
B - Vehicular Parking Directional	\$1,000	11	\$11,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	17	\$51,000
E - Interpretive Sign	\$3,000	4	\$12,000
F - Mile Markers, Embedded	\$800	11	\$8,800
<b>SUBTOTAL</b>			<b>\$118,800</b>
<b>CONTINGENCY (20%)</b>			<b>\$23,760</b>
<b>TOTAL</b>			<b>\$142,560</b>

### WEST RIVER TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
A - Gateway	\$12,000	2	\$24,000
B - Vehicular Parking Directional	\$1,000	11	\$11,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	10	\$30,000
E - Interpretive Sign	\$3,000	4	\$12,000
F - Mile Markers, Embedded	\$800	7	\$5,600
<b>SUBTOTAL</b>			<b>\$82,600</b>
<b>CONTINGENCY (20%)</b>			<b>\$16,520</b>
<b>TOTAL</b>			<b>\$99,120</b>

### TINKER-DRAPER TRAIL

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Cost per Unit	Number of Units	Total Sign Type Cost
A - Gateway	\$12,000	1	\$12,000
C - Pedestrian Directional/Mile Marker, Custom Pole	\$3,000	7	\$21,000
F - Mile Markers, Embedded	\$800	7	\$5,600
<b>SUBTOTAL</b>			<b>\$38,600</b>
<b>CONTINGENCY (20%)</b>			<b>\$7,720</b>
<b>TOTAL</b>			<b>\$46,320</b>

### SUMMARY

Preliminary Cost Estimate - Sign Standards Manual

12/5/2014

Sign Type	Total Trail Sign Cost	
1 - BERT COOPER TRAILS	\$140,200	
2 - BRICKTOWN CANAL TRAIL	\$54,000	
3 - BROCK TRAIL	\$16,000	
4 - EARLYWINE TRAIL	\$23,000	
5 - I-44 TRAIL (MAPS3)	\$54,000	
6 - KATY TRAIL	\$99,000	
7 - LAKE HEFNER-OVERHOLSER TRAIL	\$41,000	
8 - LAKE OVERHOLSER TRAILS	\$122,600	
9 - LAKE STANLEY DRAPER TRAIL	\$78,000	
10 - LIGHTNING CREEK TRAIL	\$72,000	
11 - NORTH GRAND BOULEVARD TRAIL	\$25,000	
12 - OKLAHOMA RIVER TRAILS	\$216,800	
13 - SOUTH GRAND BOULEVARD TRAIL	\$118,800	
14 - TINKER-DRAPER TRAIL	\$38,600	
15 - WEST RIVER TRAIL (MAPS3)	\$82,600	
<b>SUBTOTAL</b>		<b>\$386,200</b>
<b>CONTINGENCY (20%)</b>		<b>\$77,240</b>
<b>TOTAL</b>		<b>\$463,440</b>



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)  
***Trail Wayfinding Design Intent Document***

March 06, 2015

Prepared by:



**AECOM**

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Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: NTS

Note: Drawing scale shown on plans is accurate for full size plans only. AECOM is not responsible for scale discrepancies caused by reduced or enlarged site plans.

Description: Design Intent Document

Original Issue Date: 03.06.15

Revision:

Signature/Seal:

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Contact: Cardinal Engineering, LLC  
1015 N.Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

# Specifications

## 1 INTRODUCTION AND PROJECT DESCRIPTION

### 1.0 INCLUSIONS

This work shall include all labor, materials and equipment necessary for the proper execution and completion of said work, as shown on the plans and as herein specified. It shall also include all work not specifically included in the Design Intent Documents which is properly inferable and necessary for the completion of this work.

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including Special Conditions, apply to this Section.

### 1.2 SUMMARY OF WORK INCLUDED

- A. Sign Fabrication: Types of signs, messages, and graphics are indicated on the Drawings and herein, and require various materials, finishes, illumination and fabrication and installation techniques.
- B. Submit shop drawings, layouts, samples, and mock-ups for Owner approval.
- C. Structural design and wind-load calculations for all signs and foundations mounted and/or suspended signage to confirm structural integrity of the designed support connection. All structural connections will require certification by an Engineer licensed in project state. The drawings are diagrammatic and indicate the aesthetic of "design intent" only. Details shown are intended as a guide for the interfacing of adjacent surfaces.
- D. Installation of all fabricated signs, including all fasteners and fastenings and related electrical and data connections.
- E. Coordination with all trades of this Contract required for the fabrication and installation of the signage, including the approvals by the Owner required in this Section. Fabrication and installation of the Work shall be done in accordance with municipal code requirements.

F. Coordination and verification of all messages with Owner. Architect/Designer will provide complete set of sign location plans with sample numbering system and electronic message schedule template for fabricator to complete sign message schedule for submission and approval by the Owner.

G. Verification of all conditions and sign dimensions in the field. Sign Fabricator to coordinate all signage requirements with the architectural, structural, lighting, electrical, and telecommunications drawings to ensure that all proposed signs can be installed, with power and required data connections and structurally supported. Verification of conditions and sign dimensions to be completed prior to sign fabrication and approval of all required submittals.

### 2.0 REQUIREMENTS

Details on Drawings indicate a design approach for sign fabrication but do not include all fabricating details required for the complete structural integrity of the signs, including consideration for static, dynamic, and erection loads during handling, erecting, and service at the installed locations. Therefore, it shall be the responsibility of the Fabricator to perform the complete structural design of the signs and to incorporate all the reasonable safety factors necessary to protect the Owner and their representatives, against public liability. Contractor will submit engineered "shop drawings" to the client/clients representative for review and approval by the Owner. Signs must meet all applicable local codes, as well as testing laboratory listings where required.

### 2.1 SHOP DRAWINGS

The Drawings presented for bid are not fabrication drawings. The Signage Contractor is expected to provide all details necessary to effectively explain and specify the fabrication process and the expected performance of the installed product. The Signage Contractor must demonstrate through details and specifications their complete understanding of the desired final product and the method/process by which they are producing said product. The Signage Contractor is responsible to field measure and verify with architectural drawings prior to submitting Shop Drawings. Repackaging the supplied Drawings with new title blocks and delivering them as submittals will not be accepted. Although art may be supplied electronically, Signage Contractors will not be required to create all graphic content from scratch but to demonstrate and verify the quality and accuracy of the delivered product.

- A. The graphics and drawings represent the design intent for the signs required for the Project. The Sign Fabricator is responsible for the proper engineering of all elements of the Work and where applicable, to include a set of wet stamped, signed engineering calculations by a licensed Structural Engineer from the project's state. The internal structure, dimensions, and specifications for all items shall be indicated in the shop drawings.
- B. Description: Provide shop drawings for all items including, but not limited to the following: Complete fabrication and installation drawings for each sign type. Indicate dimensions, materials, finishes, fastening, anchorage, joining, sealing, backing, utility requirements, rough-in, and adjacent related site conditions. Fabricator is responsible to document final connections for all power and data cabling.

### 2.2 SUBMITTALS

Procedure: Prepare submittals in accordance with the requirements of the Special Conditions, and to include the following:

- A. Notes on Drawings shall clearly define any actions requiring review by the Owner or owner's representative.
- B. First article of production-run items, both large and small, will be reviewed by the Owner or owner's representative before production run is commenced.
- C. It shall be the responsibility of the Contractor to schedule all review meetings with the Owner or owner's representative.
- D. Submit physical samples of sufficient size and quantity to illustrate materials, finishes, equipment or workmanship, and to establish standards by which completed work will be judged. Samples must represent the functional characteristics of the product or material, with integrally related parts and attachment devices, colors, and finishes.
- E. Shop drawings including structural design and wind-load calculations for all signs and foundations mounted and/or suspended signage to confirm structural integrity of the designed support connection. All structural connections will require certification by a licensed structural engineer.
- F. Required samples for review: First article mock-ups/samples of entire sign types of ALL sign types indicated in the design intent drawing set.
- G. Full 101mm x 101mm (4 inch x 4 inch) set of all specified paint colors and finishes.
- H. Complete, full-size message in each typeface to demonstrate proper spacing (black text on white background: outline not accepted).
- I. Each type of metal used for major elements of work with respective finish.
- J. Each type of adhesive vinyl film, including computer-cut designs, shown full-size on each of the specified ground colors.



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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City of Oklahoma City  
Parks and Recreation Dept.

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NLC  
KMN

Drawn by: AEO

- K. Mock-ups as scheduled in this section. Approved mock-ups can be used as part of the completed work.
- L. Project schedule
- M. Supplementary Product Literature: Submit for information. Furnish within seven (7) days of request, manufacturer's literature describing the general properties of each product to be used in the Work.

2.3 QUALITY ASSURANCE

- A. Provide a mock-up (partial for large signs; complete for smaller signs) of each sign type requested at the fabrication facility for review. The requested Sign types are shown on the drawings. Refer to the drawings for further information. Mock-ups once approved may be used towards final install count.
- B. Utilize the same materials and installation methods in the mock-up as intended for the final Work. Schedule the installation so that the mock-up may be examined, and any necessary adjustments made, prior to commencing fabrication of the final Work. Replace unsatisfactory items as directed.
- C. When accepted, mock-up shall serve as the standard for materials, workmanship, and appearance for the work throughout the project.

Work-In-Progress Approvals: Provide work-in-progress sign elements reviews. Scheduled or unscheduled viewings at the Fabrication Facility may be initiated by the Owner's Representative as deemed necessary to ensure continued quality control and make any adjustments required during fabrication. Unsatisfactory items are to be corrected by the Signage Contractor as directed by the Owner or owner's representative.

Regulatory Requirements: Comply with applicable requirements of the Applicable Laws and Authorities. Obtain necessary approvals and permits from all such Authorities as required.

- Markings and Labels:
- A. Locate markings, labels, manufacturer names and other identifications so as to be concealed from public view and as acceptable by the Owner's Representative.
  - B. No trade name or other identification shall appear on any item where it will be seen by the public except as specifically approved by the Owner's Representative in advance.

- Final Location of Signs:
- A. The location of signs as shown on the Location Plans is for general reference only and in some cases is not representative of the exact final location. Final locations of Signs shall be field located in coordination with the Owner's Representative.
  - B. Signage Contractor shall arrange for meetings at the Project to accommodate direction of final locations according to Project Construction Schedule.

- Lettering:
- A. The contractor shall be responsible for the quality control of all lettering. All letterforms shall be crisp, sharp, free of nicks, ragged edges and discontinuous curves. All lettering shall conform to approved typeface, weight and letter spacing. No substitutions of typeface foundry, brand or version or implementation technique will be accepted without prior approval.

- B. Vinyl Die Cut Graphics: All camera-ready artwork shall be scanned for cutting on a Gerber Sign Maker II or approved equal.
- C. All cutting and routing shall be executed in such a manner that all edges and corners of finished letterforms are true and clean. Letterforms with rounded positive or negative corners, nicked, cut, or ragged edges, etc., will not be accepted. All letterforms shall be so aligned as to maintain a baseline parallel to the sign format. Margins must be maintained as specified in drawings.

- D. All Work under the Agreement shall be performed by skilled craftsmen under supervision of trained foremen, experienced in the trade of craft required to accomplish the Work and produce a product of high quality.
- E. All letters specified as vinyl and or painted finish shall be produced as indicated in the bid documents and substitutions will not be accepted without owners or owner's representative approval.

- High Quality of Workmanship:
- A. The Contractor shall be responsible for the high quality of all materials and workmanship required for the execution of the project including materials and workmanship of any firm or individual who act as Signage Contractor's Sub-Contractor.

- B. Signage Contractor shall be responsible for providing up-to-date drawings, specifications, graphic schedule, etc., to all sub-contractors.

- Dimensions
- A. Written dimensions on drawings shall have precedence over scaled dimensions.
  - B. Signage Contractor shall verify and be responsible for all dimensions and conditions shown by these drawings. Shop details must be approved by the Owner's Representative prior to fabrication.

Discrepancies  
Signage Contractor shall notify the Owner's Representative of any discrepancies in the Drawings, Sign Location Plan or Sign Message Schedule, in field dimensions or conditions and/or changes required in construction details.

- 2.4 GRAPHICS/ARTWORK  
Owner or owner's representative to provide contractor artwork on: CD-Rom, DVD or via electronic file transfer; Adobe Illustrator 11.0 for graphic layouts included in the drawings.

- 2.5 WARRANTY  
Submit to the Owner's Representative a 1-year written warranty (effective the date of final acceptance) covering all signs contractor will agree to repair or replace defective signs. Upon notification of such defective signs within the warranty period, make necessary repairs or replacement at the convenience of the Owner's Representative.

Paint Finish Warranty  
Submit to the Owner's Representative a 1 year written warranty, warranting that the factory-applied finishes will not develop excessive fading or excessive non uniformity of color or shade, and will not crack, peel, pit, corrode or otherwise fail as a result of defects in materials or workmanship within the following defined limits. Upon notification of such defects within the warranty period, make necessary repairs or replacement at the convenience of the owner's representative.

Definitions:  
Excessive Fading - A change in appearance which is perceptible and objectionable as determined when visually compared with the original color range standards.

Excessive Non-Uniformity - Non-uniform fading to the extent that adjacent panels have a color difference greater than the original acceptable range of color.

Will Not Pit or Otherwise Corrode - No pitting or other type of corrosion, discernible from a distance of 3m (10 feet), resulting from the natural elements in the atmosphere at the project site.

- 2.6 MAINTENANCE
- A. Contractor shall prepare a Maintenance and Operating Manual comprised of cleaning and operations needs for each sign type. This shall include information on repair due to common vandalism, changing of messages and parts replacement needs.
  - B. Submit four (4) copies of Maintenance and Operating Manuals to the Owner's Representative and 1 digital copy.



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Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

- C. Furnish complete manuals describing the materials, devices and procedures to be followed in operating, cleaning and maintaining the work. Include manufacturers' brochures and parts lists describing the actual materials used in the work, including metal alloys, finishes, electrical components and other major components.
- D. Assemble manuals for component parts into single binders identified for each system.

2.7 FABRICATION

- A. Signage shall be complete for proper installation as described in the drawings.
- B. Finish work shall be firm, well anchored, in true alignment, properly squared, with smooth clean uniform appearance, without holes, cracks, discoloration, distortion, stains, or marks.
- C. Construct all work to eliminate burrs, dents, cutting edges, and sharp corners.
- D. Finish welds on exposed surfaces to be imperceptible in the finished work.
- E. Except as indicated or directed otherwise, finish all surfaces smooth.
- F. Surfaces, which are intended to be flat, shall be without dents, bulges, oil canning, gaps, or other physical deformities.
- G. Surfaces, which are intended to be curved, shall be smoothly free-flowing to required shapes.
- H. Except where approved otherwise by Owner, conceal all fasteners.
- I. Make access panels tight-fitting, light proof, and flush with adjacent surfaces.
- J. Conceal all identification labels.
- K. Carefully follow manufacturer's recommended fabricating procedures regarding expansion or contraction, fastening, and restraining of acrylic plastic.
- L. Exercise care to ensure that painted, polished, and plated surfaces are unblemished in the finished work.

- M. Isolate dissimilar materials. Exercise particular care to isolate nonferrous metals from ferrous metals.
- N. All illumination shall be even and without hot spots.
- O. Ease all exposed metal edges.
- P. Provide miscellaneous metal items required for completion of the work even though not shown or specified.
- Q. Refer to Drawings for sign color specifications.
- R. Paint finishes shall be Matthews Acrylic Polyurethane with Matthews Primers and Metal Pre-Treatments or Owner approved equal.
- S. Shop painting to be uniform on and around all sign elements to ensure sign elements will withstand all weather conditions.
- T. Mounting: Mounting plates shall be in conformance with manufacturer's written recommendations.

2.8 MATERIALS

- A. Aluminum shall be suitable for ornamental, architectural work. Surface finish shall be smooth, free of extrusion marks or imperfections. Alloy shall be selected to meet the structural requirements of the specific application.
- B. Stainless steel shall be suitable for ornamental and architectural work. Surface finish shall be smooth, free of all extrusion marks or imperfections. Alloy shall be selected to meet the structural requirements of specific application. Structural metal for concealed framing shall be of galvanized rolled steel or equal as required to satisfy structural requirements.
- C. Aluminum exterior cabinets, spacers, back plates and frames shall be constructed from 6mm (.25 inch) aluminum, #4 horizontal brushed and clear anodized finishes, unless otherwise specified on Drawings.

- D. Aluminum interior plaques shall be constructed from 3mm (0.125 inch) aluminum, #4 horizontal brushed finish with semi-gloss linear polyurethane clear coat, unless otherwise specified on Drawings.
- E. Aluminum interior fabricated components shall be constructed from 3mm (0.125 inch) thickness aluminum sheet unless otherwise indicated.
- F. Adhesive used for installing signs shall be manufactured by Dow Corning or equal. Polyfoam or "Isotac" contact adhesive tape manufactured by 3M shall be used in conjunction with silicone adhesives for installation of wall signs, in minimum thicknesses available.
- G. Concrete installation of anchoring devices into concrete slab shall be adjusted to avoid penetrating existing reinforcing conduit, etc. contained in the concrete slab. Coordinate with the Project Architect and Structural Engineer.
- H. Stainless steel shall be suitable for ornamental and architectural work. Surface finish shall be smooth, free of all extrusion marks or imperfections. Alloy shall be selected to meet the structural requirements of specific application. Structural metal for concealed framing shall be of galvanized rolled steel or equal as required to satisfy structural requirements.
- I. Acrylic intended for non-illuminated use shall be 6mm (0.25 inch) cast acrylic sheet with non-glare finish, unless otherwise specified on Drawings. Acrylic intended for edge-illuminated use shall be 10mm (0.5 inch) extruded acrylic sheet with embedded diffuser particles designed specifically for edge-lighting, unless otherwise specified on Drawings.

- J. Use Plexiglas II as manufactured by Rohm and Haas Co., or equal quality. Thickness shall be as indicated on Drawings or not less than 3mm (0.125 inch) thick. Signage Contractor shall provide color and finish samples of all plastics for approval before fabrication; no substitution in color, thickness, or finish of plastics will be accepted without written approval from the Owner's Representative. All plastics shall be of uniform color, translucence and illumination, as supplied by manufacturer. Any exposed edges of acrylic shall be finished so as no saw marks are visible.
- K. Bolts, nuts, screws, washers, anchors and other devices required to complete the work. Signage Contractor shall use the same basic metal or alloy as the metal fastened, and finish matching in color and texture. Use stainless steel 300 series alloy where used to join dissimilar materials.
- L. All exposed fasteners to be 3mm (0.125 inch) tamper proof stainless steel screws painted to match adjoining surfaces unless otherwise specified on drawings.
- M. Pin-mount supports shall be painted threaded rods as appropriate.
- N. Insulation /Material Isolation: Separate all ferrous and non-ferrous metals with non-conductive gaskets to prevent electrolysis. In addition to gaskets, provide stainless steel fasteners for some cases as required.
- O. Applied interior vinyl graphics to be High Performance Cast Vinyl Sheeting, unless otherwise specified on Drawings. Applied exterior vinyl graphics shall be High Performance Reflective Vinyl Sheeting, unless otherwise specified on Drawings.



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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City of Oklahoma City  
Parks and Recreation Dept.

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Description: Design Intent Document

Original Issue Date: 03.06.15

Revision:

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Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

- P. Dissimilar Materials: Where metal surfaces will be in contact with dissimilar materials, coat the surfaces with epoxy paint or plate with zinc chromate, or provide other means of dielectric separation as recommended by manufacturer to prevent galvanic corrosion (i.e. Neoprene gasket as an isolation membrane)
- Q. Castings: Exposed surfaces shall be uniformly free from porosity and roughness. Edges shall be filled and ground smooth. Faces shall be chemically etched and mechanically polished for specified finish.
- R. Galvanizing: Provide for steel components in exterior construction, and where noted in Drawings shall be galvanized. Complete the shop fabrication prior to application of the zinc coating. Remove mill scale and rust, clean and pickle the units as required for proper pretreatment of the surfaces.
- S. Hardware: Provide all incidental hardware necessary for the proper functioning of signs. External hardware shall conform to the external appearance of the sign.
- T. Supports and Backing in Walls: Contractor shall provide engineered sign supports anchored to building structure where required and to meet requirements of applicable building codes. Support or backing requiring installation within the building wall construction shall be immediately relayed to the Architect of Record and Owner's Representative for field coordination. Contractor shall meet with the Architect to review all requirements.

- B. Light Emitting Diode (LED) general lighting requirements:
  1. Provide sufficient LED wattage, quantities and spacing to ensure continuous, maximum illumination.
  2. Provide LED lighting prototypes to verify brightness and uniformity of lighting with designer.

Electrical Wiring and Equipment

- A. Provide and install electrical materials such as ballasts, transformers, lamps, sockets, neon units, connectors, and all other equipment which shall be new and shall be approved by Underwriters Laboratories, Inc. The assembly of all components within the illuminated signs shall conform to all standards of Underwriters Laboratories, Inc. as published in the latest edition of "Standards for Sign Safety" and all illuminated signs shall bear the U.L. label. All wiring and equipment shall be concealed within the Sign structure.
- B. Conduit and Devices: Provide Rigid steel conduit, junction boxes and associated devices in accordance with applicable codes as required.
- C. Wiring: Minimum #12 AWG copper shall be used. High tension wiring shall not be less than GTO 15 wire as manufactured by Carol Cable Company or approved equal. All wiring shall be AWM 90 0 centigrade 1000 volt TW/MTW U.L. file no. 18971. Wiring connectors for wire splicing shall be U.L. approved 1000 volt capacity and shall be Scotch Lock type Y or R or equal. All splices should be easily accessible for inspection and should be shown on Shop Drawings.
- D. Ballasts shall be used as required for internally illuminated cabinet signs, in quantity and arrangement as recommended by ballast manufacturer and accessible for maintenance and shown on Shop Drawings.

- E. Disconnect Switch: All Signs or Sign components with electrical service shall be equipped with an approved external disconnect switch, flush mounted on the cabinet / Sign, with circuits and capacity to control all primary wiring within the Sign. Location of switch must be shown on Shop Drawings and is subject to approval.
- F. Illumination: All Signs with fluorescent fixtures shall utilize minimum 800 milliamp T8 output cool white fluorescent lamps at the length and placement necessary to provide even illumination without light leaks. All Signs with LED light sources shall be built to perform as required by the Design Consultant's documentation. Signage Contractor shall provide any specification information required to verify performance. All lamps and ballasts shall be provided by the Signage Contractor. Signage Contractor shall provide waterproof flush access panel(s), which shall be concealed wherever possible. Conduit wiring and electrical equipment from the field electrical connection to any part of the sign and within the sign shall be provided by the Signage Contractor.
- G. Ventilation: While maintaining a proper weather seal, Signage Contractor shall provide for sufficient ventilation of Sign components to prevent overheating or warping; allowing for color of sign, mounting surface, climate conditions, etc. In providing for ventilation, Signage Contractor shall protect sign from elements (sand, rain, wind, debris, etc.) that might cause operational or cleaning problems. Signs / cabinets with light leaks will not be accepted. Signage Contractor shall utilize stainless steel bug mesh screen for integration with weep holes or vent / louvers on the Signs to prevent insect migration into illuminated Signs.
- H. Cooling System: Contractor shall provide air-conditioning as necessary for the digital kiosks to ensure temperature thresholds for monitors proper cooling based upon manufacturer specifications of all hardware elements.

- B. Powder coat shall be TGIC super polyester powder coat with a polymer undercoating. Shop painting shall be uniform on and around sign elements to ensure sign elements will withstand weather conditions.
- C. Acrylic Linear Polyurethane enamel: Matthews provides a wide variety of coating systems on a global basis. Specific regions have different branded names: U.S and Canada – Grip Guard or Grip Guard Base Coat, Europe and Asia – Dynacoat, and Global – Sikkens or Lesonal. The approved color system shall follow the products manufacturer specifications for mixing hardeners, reducers clear coats, etc. Contractor shall refer to the Matthews paint code when ordering the product. Matthews and client require the use of clearcoat over all basecoat systems for durability and warranty purposes. Clearcoat application per Matthews specifications shall be required on all painted surfaces.
- D. Painted Surfaces: Manufacturer shall apply a wet film coating of gloss or semi-gloss UV inhibited CLEAR COAT to assure color and finish stability. Manufacturer shall either sand a cured paint surface prior to application or apply wet-on-wet to assure positive bonding.
- E. Primer for Aluminum and Steel: Clean surface and remove all contaminates using approved Matthews wax and grease remover. Sand surface using P-120-P180 Grit dry for aluminum and P-80-P120 for steel. Re-apply wax and grease remover, wipe clean and let dry. Apply Matthews primer specific to technical data sheet from manufacturer.
- F. Metal Finishes: Remove scratches, abrasions, dents and other blemishes before applying finish. Apply the following to the fabricated Work, with texture and reflectivity as required to match the Architect's sample.

2.9 ELECTRICAL COMPONENTS

Electrical components must conform to applicable electrical codes and the following:

- A. All materials must be approved and listed by Underwriters Laboratories, Inc.

2.10 FINISHING MATERIALS

- A. Linear Polyurethane Coatings: Provide the following, or other products as acceptable.



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- G. Silk Screening Materials: Provide photo processed screening, arranged to furnish sharp and solid images without edge build up or bleeding of the coating. Pattern-cut screens may be used for non-repeat copy, provided that final image copy is equal to photo screen quality. Provide only weather-resistant coating materials, compatible with the intended substrates. All silk-screened graphics are to be done with the finest screen size feasible for sharp, even reproduction.
- H. Vinyl Die-Cut and Pattern Cut-out Graphics: Use Scotchcal Opaque and Translucent film manufactured by 3M where specified. Use pressure-sensitive, non-yellowing, non-peeling and weather resistant vinyl as specified. Use approved fonts and equipment as specified.

2.11 FABRICATION OF SIGNS AND SUPPORTS

- A. General: Provide custom manufactured sign assemblies, components completely fabricated and finished at factory before delivery to project. Construct to accurate detail and dimensions as shown and as review on approved Shop Drawings. Fit and assemble the Work at the shop and mark the components as required to facilitate assembly during installation. Exposed fasteners on finished faces will not be allowed, unless specifically indicated. Waviness and oil canning of surfaces is not acceptable. Minimum material thickness is to be 2.3mm (0.09 inches). Conceal wiring, conduct and other electrical items within sign enclosures.
- B. Lettering: Cut and rout in a manner to produce true and clean edges and corners of finished letterforms. Letterforms having rounded positive or negative corners, nicked, cut, or ragged edges are not acceptable. Align letter forms to maintain a baseline parallel to the sign format. Maintain margins as indicated on the Drawings.

- C. Seams and Joints: The contractor shall cut walls and floors carefully and neatly repair them in an acceptable manner. Contractor shall consult the Architect of Record in cases where cutting into a structural portion of the building is required so that satisfactory reinforcement may be provided. Added joints shall be ground filled and finished flush and smooth with adjacent work. Such seams shall be invisible after final finish has been applied. Spot welded joints shall not be visible on exterior of signs after final finish has been applied. No gaps, light leaks, waves, or oil canning will be permitted in work. If any of these are evident, the contractor will be required to correct its work or construct a new sign at its own expense.
- D. Metal Signs and Supports: Fabricate exposed surfaces uniformly flat and smooth, without distortion, pitting, or other blemishes. Form exposed metal edges to a smooth radius. Permanently bond the laminated metal components and honeycomb core with adhesive or sealant in accordance with product manufacturer's recommendations. Grind exposed welds and rough areas to make flush with adjacent smooth surfaces.
- E. Welding: Make welds continuous.
- F. Fasteners: Use exposed fasteners only if shown on the Bid Documents. Perform drilling and tapping at shop.
- G. Contractor shall confirm soils are compatible with foundation engineering requirements for compaction.
- H. Contractor shall be responsible for verification of any adjacent utility conflicts that might be disrupted or impacted by installation of foundations or installation of sign elements.

2.12 GRAPHIC APPLICATION

- A. Preparation: Surfaces to receive the graphic markings shall be clean, dry, and otherwise made ready for application of the materials. Accurately measure and lay out the required marking configurations as indicated on drawings.

- B. Vinyl Die-cut and Pattern-cut Graphics: Use pressure sensitive, non-yellowing, non-peeling and weather resistant vinyl adhesive letters or images, custom flood coated as required, die cut from specified vinyl manufacturing company. Apply in strict accordance with manufacturer's instructions. Make uniformly smooth and free from bubbles, wrinkles, stretching and blemishes.
- C. Painted or Silk-screened Graphics: All graphics shall be applied using photo processed screens from camera ready art, arranged to furnish sharp and solid images without build-up or bleeding of the coating. Comply with coating manufacturer's application instructions. Provide proper type of primer to suit each substrate and obtain a permanent bond. Verify compatibility of each substrate with the coatings to be used in the Work. Apply the markings with neat edges, minimum 3 mils (0.075 mm) dry film thickness and as required to obtain solid markings without voids.
- D. Digitally Printed Graphics: All digitally printed graphics to be executed from Owner/Designer approved art and to be produced at a high rate of resolution. Usage of substrate and ink types to be for the specific (interior or exterior) installation environment and to be applied in strict accordance with manufacturer's instructions.

3.0 EXECUTION

3.1 VERIFICATION OF CONDITIONS

- A. Inspect all surfaces to receive signage and report all defects which would interfere with signage installation.
- B. Starting work implies acceptance of surfaces as satisfactory
- C. Verify all conditions and sign dimensions in field. Contractor to review and study architectural, landscape, lighting, electrical and related plans to insure that all proposed signs can be installed and supported. Verification of conditions and sign dimensions to be completed prior to sign fabrication and reviewed with the architect.

3.2 INSTALLATION

- A. Install signage upon acceptance by the owner of material and substantial completion of job site area to receive such materials.
- B. Special Precautions: Guard against damaging existing pavements and planting where signage is to be installed.
- C. Footings beneath topping surface shall be installed and located prior to top surface installation.
- D. Prior to installation, check all components, nuts, bolts, and other connections for proper alignment, fit and any damage. Replace damaged or defective components.
- E. Prior to installation, confirm all electrical locations and requirements with the owner or owners representative.

3.3 CLEAN UP

- A. Keep areas of work clean, neat and orderly at all times. Clean surfaces, inside and out. Use approved cleaners if necessary to remove dirt.
- B. Protective coverings and strippable films shall be removed at a time that will afford the greatest protection of the furniture. Surfaces shall be cleaned to remove excess glazing and sealant compounds, dirt, and other substances.
- C. Upon completion of work and before final acceptance, remove tools, surplus materials, apparatus, and debris from the site. Leave the site in a neat, clean condition, acceptable to the Engineer. Wash, clean, and leave paved areas without stains.
- D. Contractor shall repair and/or replace all damaged surfaces with like materials. All new surfaces adjacent to and within 2 meters of sign, including the entire excavated area shall be returned to its original condition and quality, including, materials, finish and grading that was present prior to excavation.



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NLC  
KMN

Drawn by: AEO



3.4 PROTECTION OF EXISTING FEATURES

Contractor shall preserve and protect all existing trees, shrubs, plantings, street signs, parking meters, fences, retaining walls, buildings, entry ways, surface materials, property survey monuments, structures and utility line appurtenances. Any removal and replacements or protection required shall be considered part of the contractor's responsibility and shall be incidental to the Contract. Any damage to existing features within and adjacent to the work area, created by failure of the contractor to provide adequate protection from its construction operations, shall be repaired or replaced to the satisfaction of the respective owner at the contractor's expense.

Contractor shall preserve and protect all permanent survey markers, including private property corner markers, section or quarter section monuments, and permanent benchmarks. Survey markers necessarily moved as a result of construction, or otherwise damaged by the contractor shall be replaced at the contractor's expense by a land surveyor registered in the project state.

3.5 UTILITY CONFLICTS

At some locations on the project, (water, gas, power pole supports, etc.) may be in conflict with the work authorized under this project. The contractor will inform the client's representative to determine a resolution of the conflict which may include relocation of the sign or utility.

3.6 FINAL CLEANUP

All dirt, mud, trench backfill, materials, temporary surface or other debris shall be removed by the contractor from pavement surfaces, ground surfaces, sewers, manholes, and catch basins as directed by the contractor. Sewers downstream of the project that have accumulated deposits or debris as a result of construction shall be jet cleaned and vacuumed to remove the material at the contractor's own expense.

3.7 FINAL INSPECTION AND ACCEPTANCE

- A. Upon completion of work, a final inspection for acceptance will be performed by the Owner.
- B. All mock-ups and unused submittals shall be removed from site prior to final acceptance.

- C. Submit operation manuals, tools, and keys as necessary to maintain and adjust the built products.

3.8 STRUCTURES AND UTILITIES ENCOUNTERED

Various underground and surface structures may or may not be shown on the plans. The locations and dimensions of such structures where shown do not purport to be absolutely correct. In some cases, the structures are plotted on the plans for the information of the contractor, but information so given is not to be construed as a representation that such structures will be found or encountered exactly as plotted. Other structure may also be encountered which are not shown on the plans.

The contractor shall maintain in operating condition all utilities encountered in this work. The contractor shall be entirely responsible for all injuries to water pipes; fiber optic cables; electric conduits; existing drains or sewers; gas pipes; and poles carrying electrical current, telephone or cable television during the prosecution of the work and shall be liable for damages to public or private property resulting there from, which amount may be deducted from any monies due him/her for work done. Any damage to existing utilities as a result of the construction shall be repaired to the satisfaction of the owner of the utility at the contractor's expense, whether or not said utilities are shown on the plans.

Existing utilities may be relocated with the approval of the owner of the utility. This relocation shall be at the contractor's expense, done according to the requirements of the utility owner and shall be sufficient to clear the proposed improvements.

Before beginning work, the contractor shall contact each company, municipality, or agency maintaining utilities in the project area and request their assistance in field locating their utilities in that area. The contractor, however, shall be solely responsible for the location of utilities.

4.0 CORRESPONDENCE AND COMMUNICATION

The contractor shall direct all project related questions and concerns in writing to the clients representative for the project. Contact information is listed on the Bid Documents on each page.



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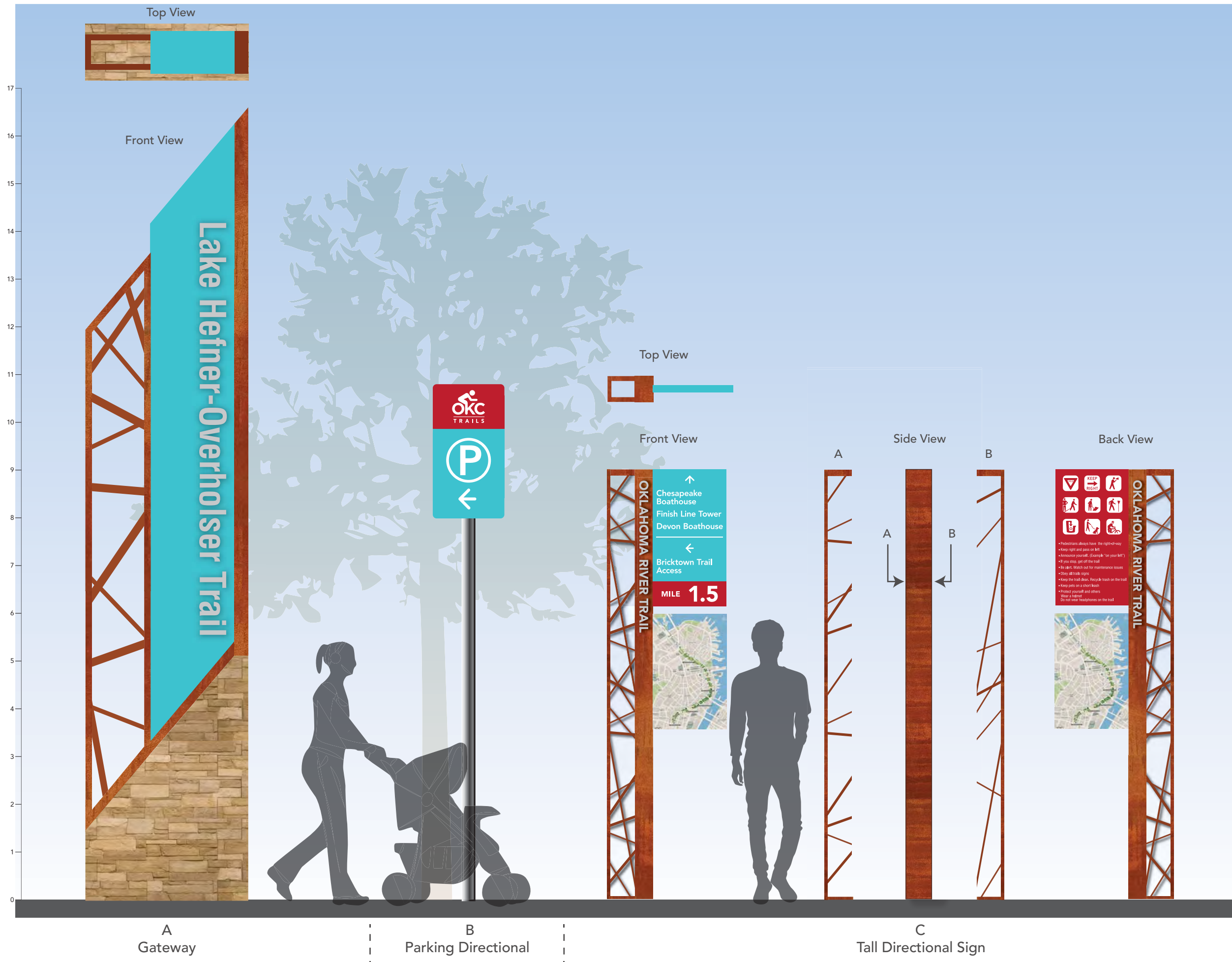
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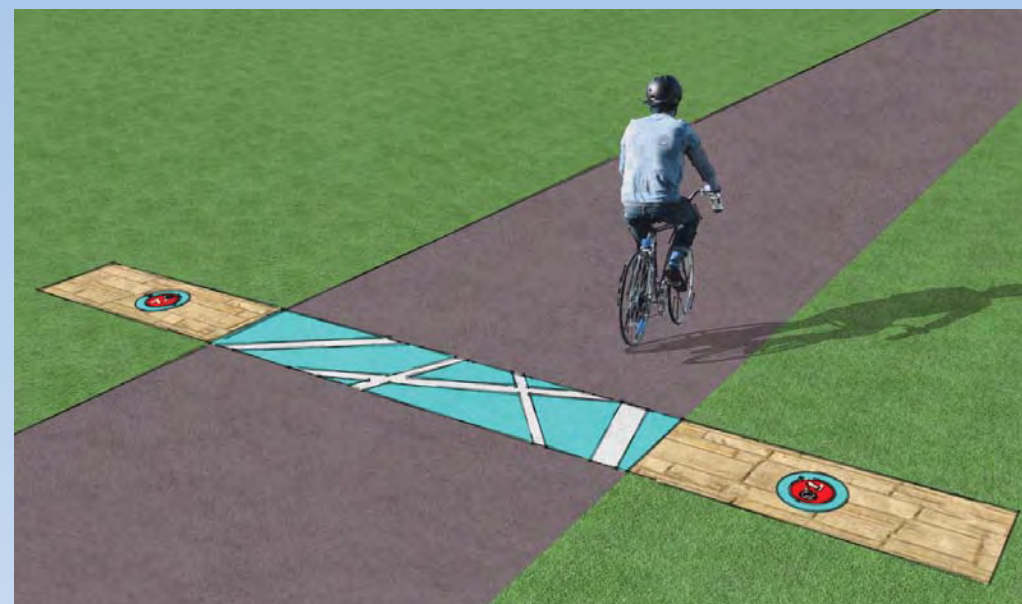
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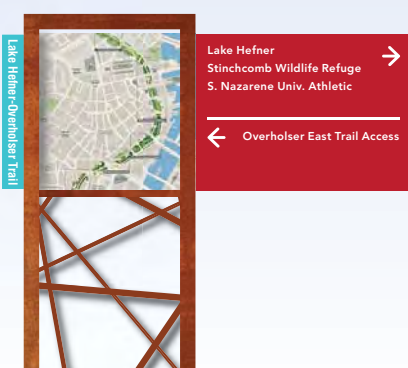
E  
Mile Marker

Top View



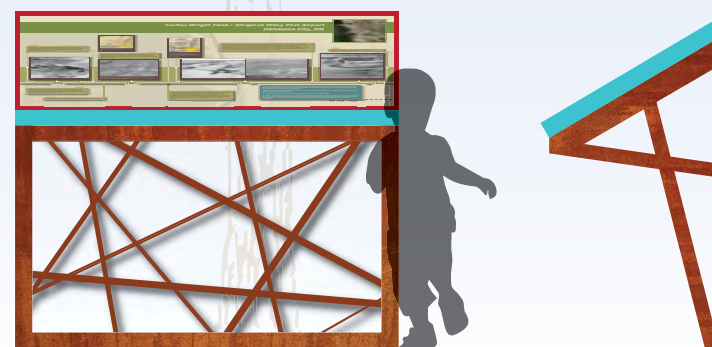
Front View

Back View



Front View

Side View



D  
Small Pedestrian Directional (low view)

D  
Interpretive Sign



\* Concept Only.  
Final Artwork/ Logo to  
be determined by City



Graphic Standards



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

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City of Oklahoma City  
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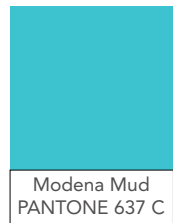
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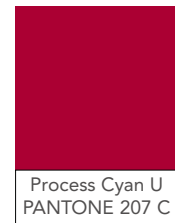
Drawn by: AEO



Material Color Match

**P1**  
Matthews Polyurethane Enamel  
Paint MP# 02514 with UV inhibitor,  
finished with Matthews  
Super Satin Clear Coat,  
290-228SP

**V1**  
Oralite 8800-594  
Translucent Premium Cast High  
Performance Film, Pastel Blue



Material Color Match

**P2**  
Matthews Polyurethane Enamel  
Paint MP# 10224 with UV inhibitor,  
finished with Matthews  
Super Satin Clear Coat,  
290-228SP

**V2**  
Oralite 8800-017  
Translucent Premium Cast High  
Performance Film, Cherry Red



Material Color Match

**P3**  
Matthews Polyurethane Enamel  
Paint MP# 27386 with UV inhibitor,  
finished with Matthews  
Super Satin Clear Coat,  
290-228SP

**V3**  
Oralite 5800-010  
Reflective Film, White

Brand, Color & Materials Palette

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz

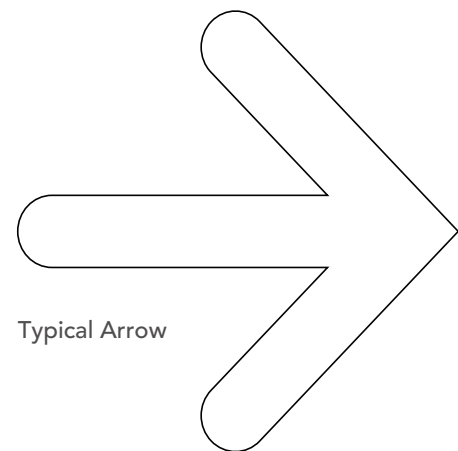
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Typestyle - Avenir

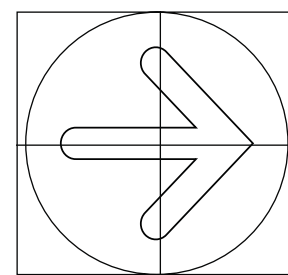
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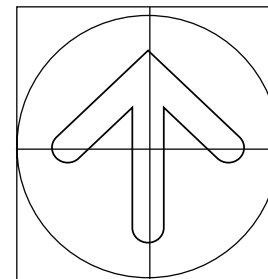
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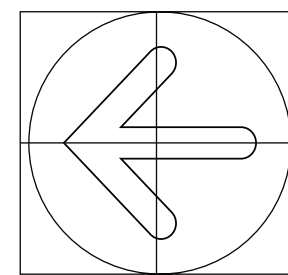
Typical Arrow



To the Right



Straight Ahead



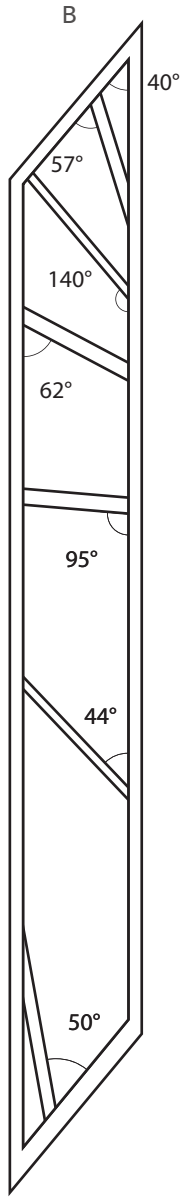
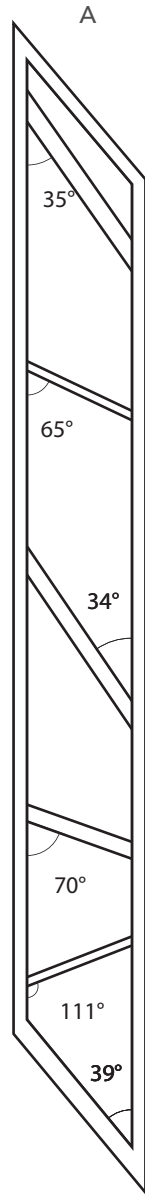
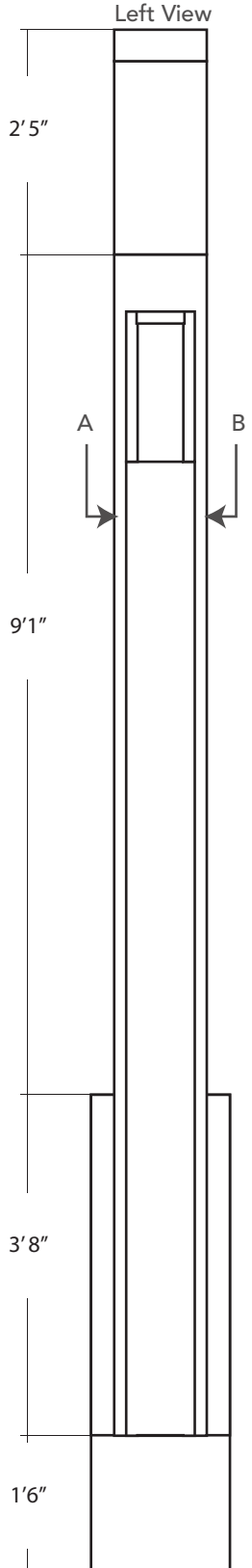
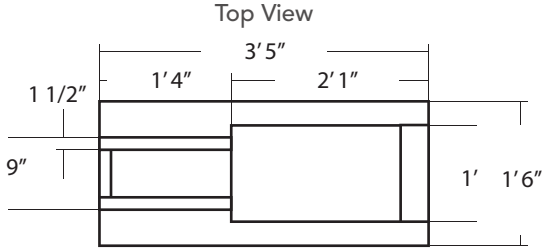
To the Left

Arrow & Arrow Use

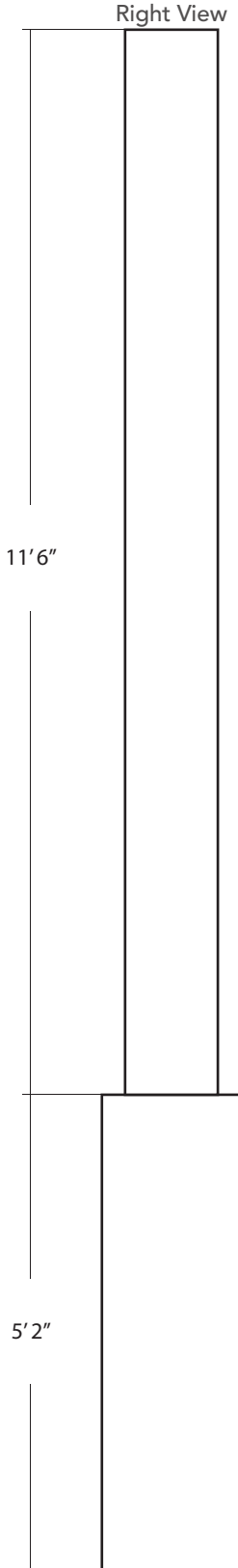
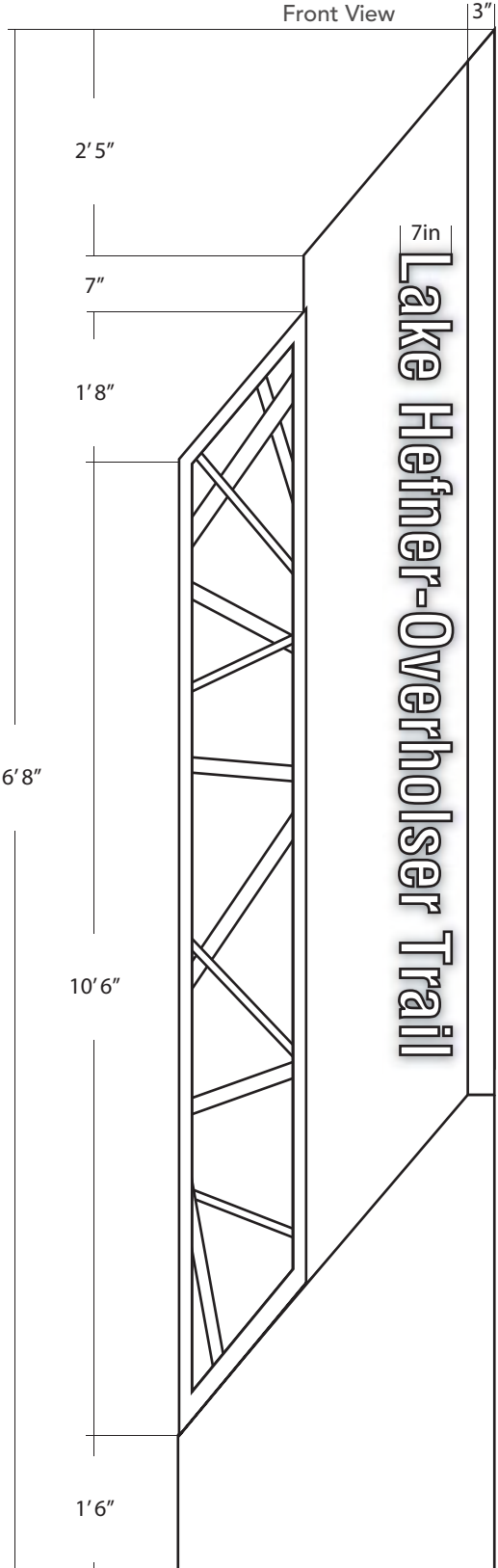
A

Gateway - Dimensions

Scale: 1/2" = 1'



Fabricator to determine foundation per code



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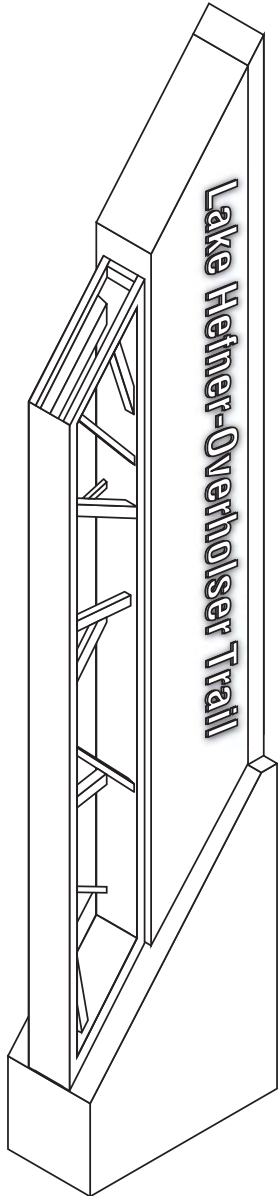
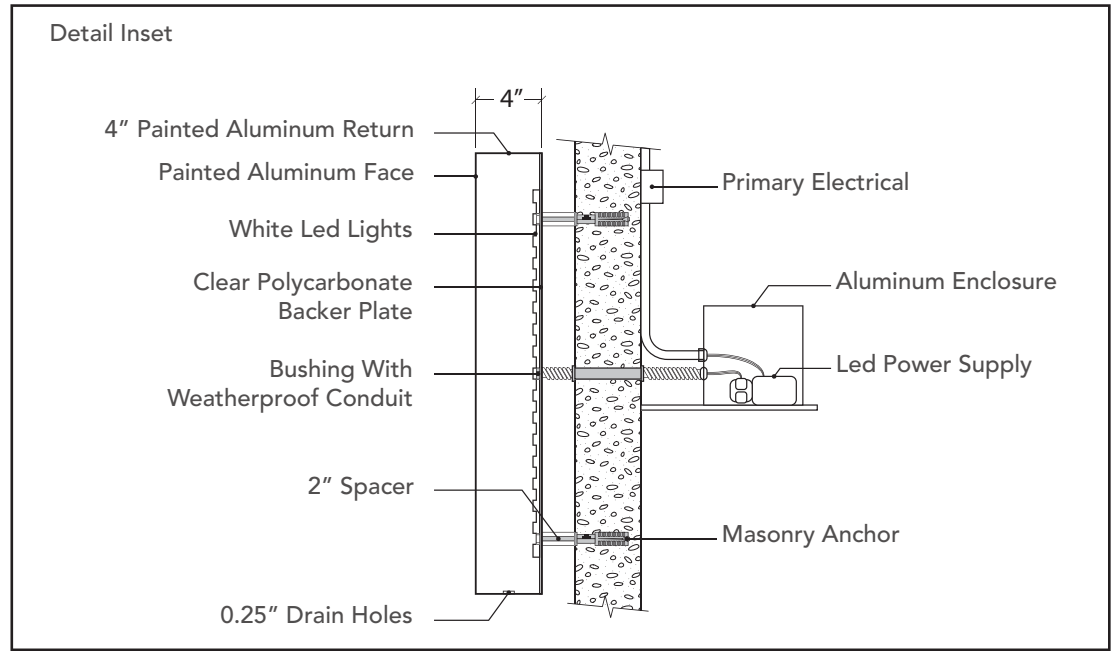
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Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

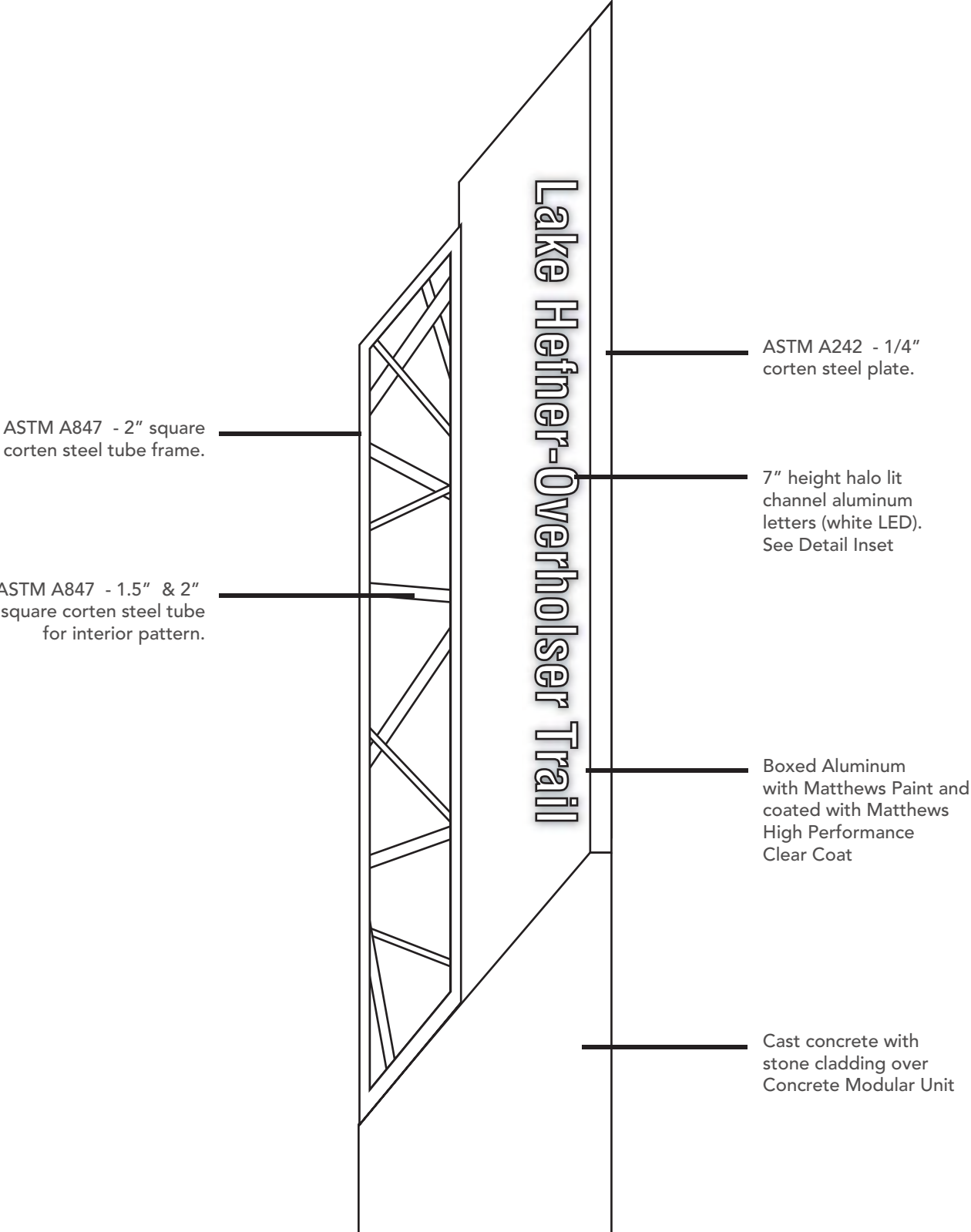
Drawn by: AEO



**A** Gateway - Materials and Graphics

Scale: 1/2" = 1'

Front View



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1/2" = 1'

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Project Team: SPC  
 AEO  
 NLC  
 KMN

Drawn by: AEO



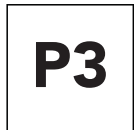
Cast Stone  
\*Fabricator to match  
pattern and color as sample



Matthews Polyurethane Enamel Paint  
MP# 02514 with UV inhibitor, finished  
with Matthews Super Satin Clear Coat,  
290-228SP



Matthews Polyurethane Enamel Paint  
MP# 10224 with UV inhibitor, finished  
with Matthews Super Satin Clear Coat,  
290-228SP



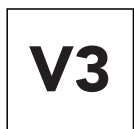
Matthews Polyurethane Enamel Paint  
MP# 27386 with UV inhibitor, finished  
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290-228SP



Oralite 8800-594  
Translucent Premium Cast High  
Performance Film, Pastel Blue



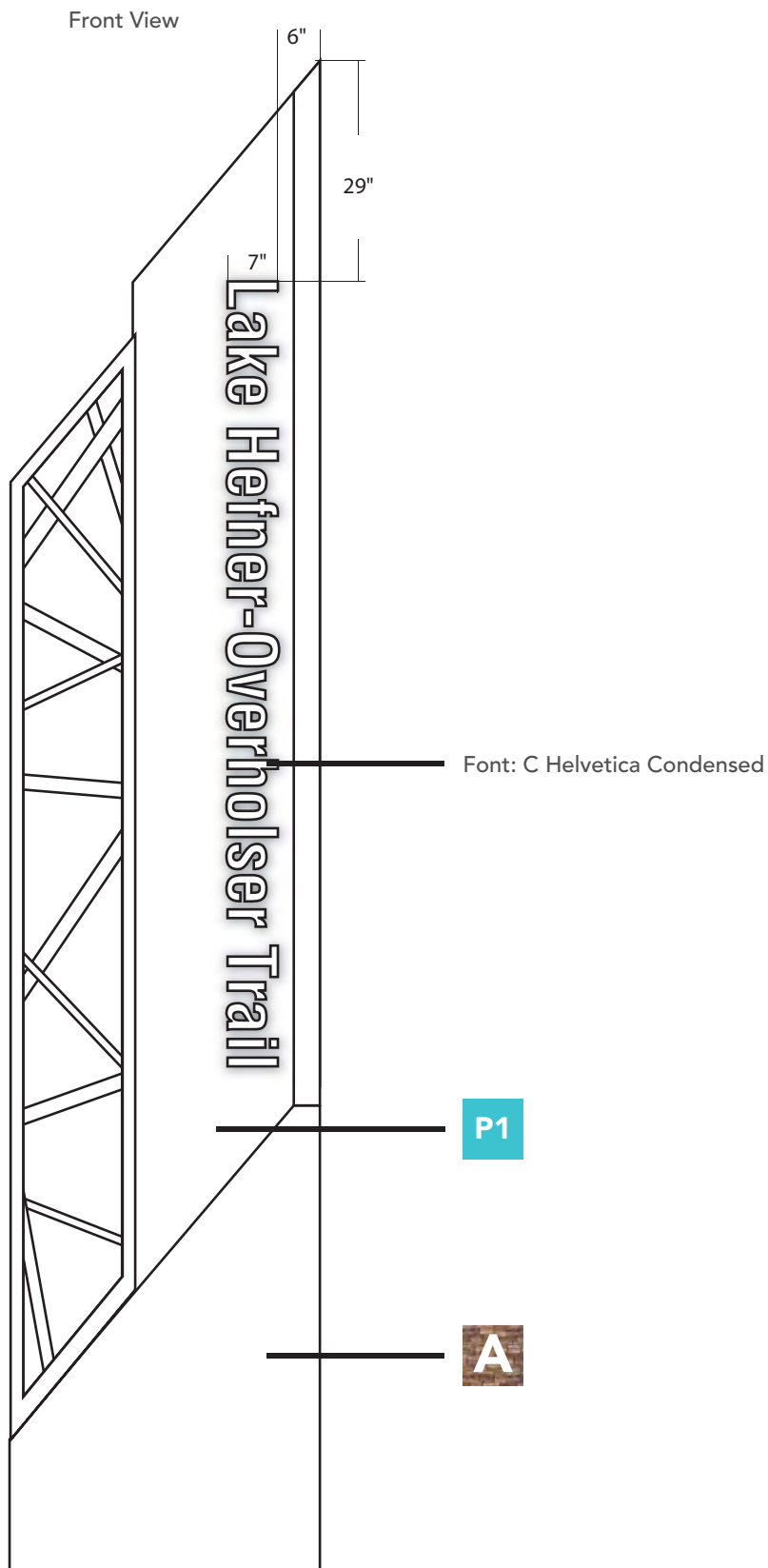
Oralite 8800-017  
Translucent Premium Cast High  
Performance Film, Cherry Red



Oralite 5800-010  
Reflective Film, White

**A** Gateway - Materials and Graphics

Scale: 1/2" = 1'



Wayfinding Master Plan for  
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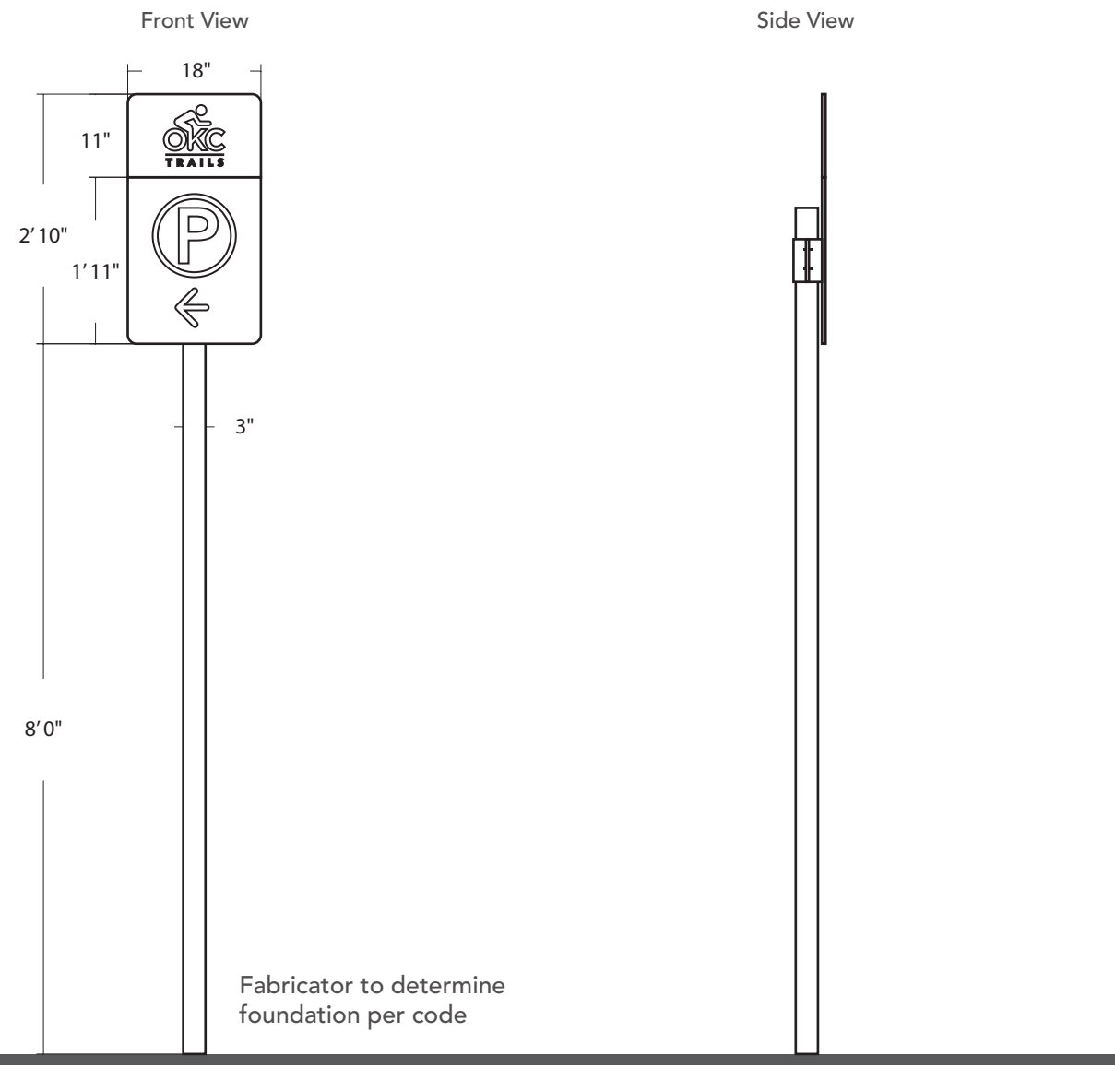
Contact: Cardinal Engineering, LLC  
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Project Team: SPC  
AEO  
NLC  
KMN

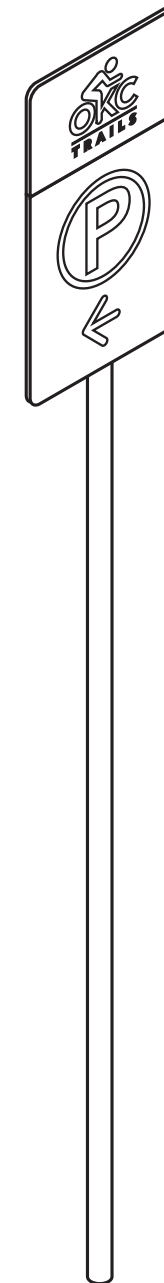
Drawn by: AEO

**B** Parking Directional - Dimensions

Scale: 1/2" = 1'



Isometric View



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
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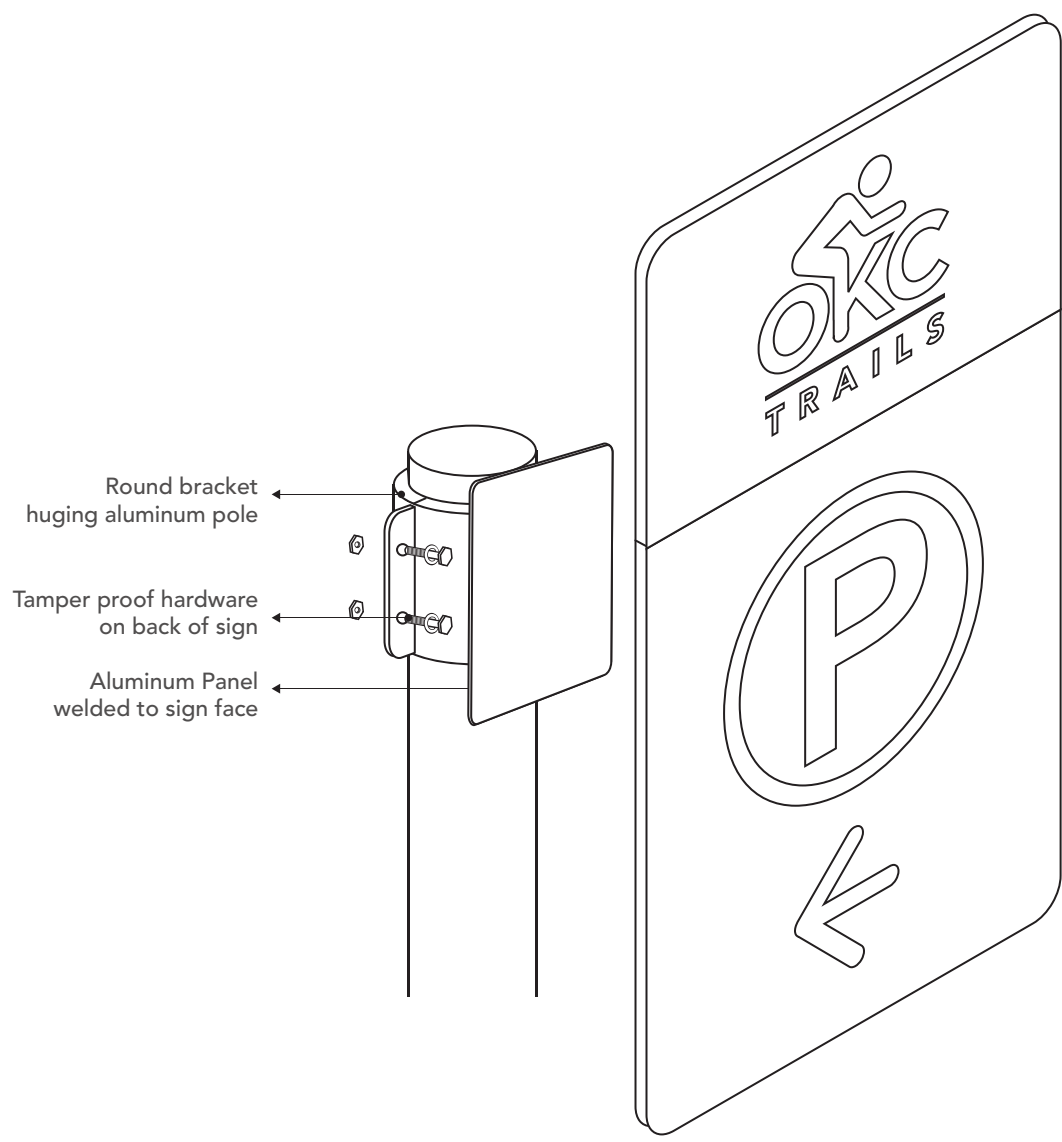
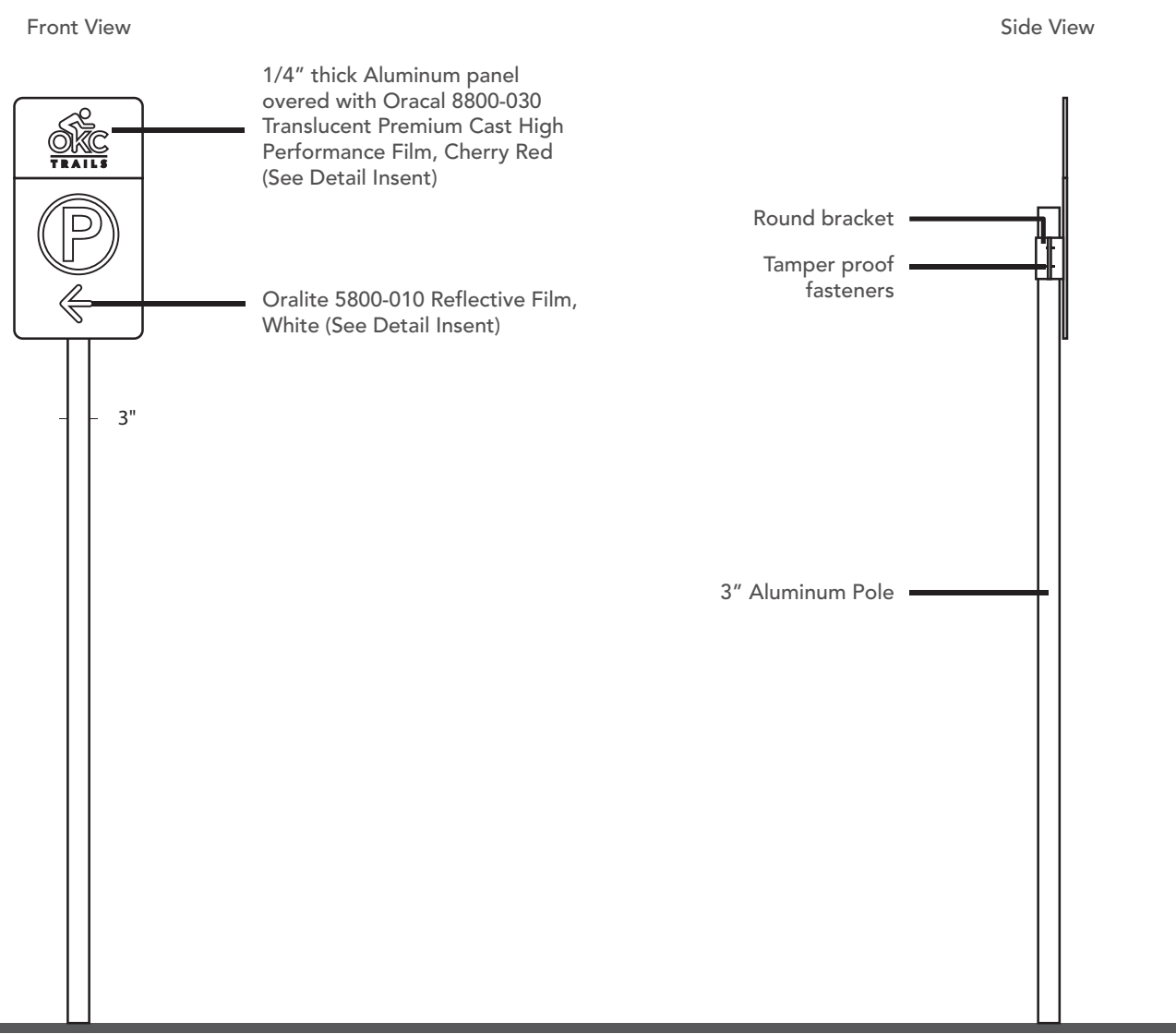
Drawn by: AEO



**Detail Inset**



- Cut out text
- Oracal 8800-017 Translucent Premium Cast High Performance Film, Cherry Red
- Oralite 5800-010 Reflective Film, White



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO



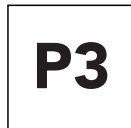
**A** Cast Stone  
\*Fabricator to match pattern and color as sample



**P1** Matthews Polyurethane Enamel Paint MP# 02514 with UV inhibitor, finished with Matthews Super Satin Clear Coat, 290-228SP



**P2** Matthews Polyurethane Enamel Paint MP# 10224 with UV inhibitor, finished with Matthews Super Satin Clear Coat, 290-228SP



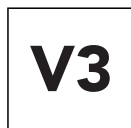
**P3** Matthews Polyurethane Enamel Paint MP# 27386 with UV inhibitor, finished with Matthews Super Satin Clear Coat, 290-228SP



**V1** Oralite 8800-594 Translucent Premium Cast High Performance Film, Pastel Blue



**V2** Oralite 8800-017 Translucent Premium Cast High Performance Film, Cherry Red

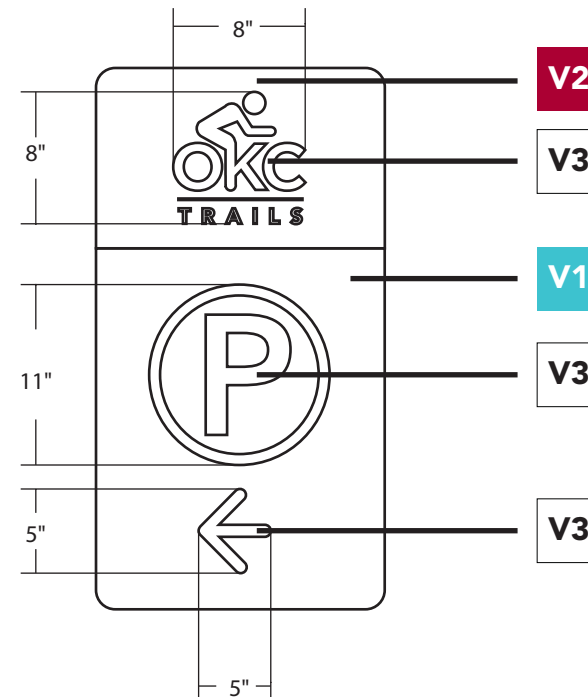


**V3** Oralite 5800-010 Reflective Film, White



**B** Parking Directional - Graphics

Scale: 1" = 1'



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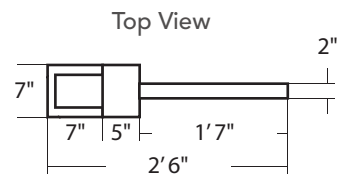
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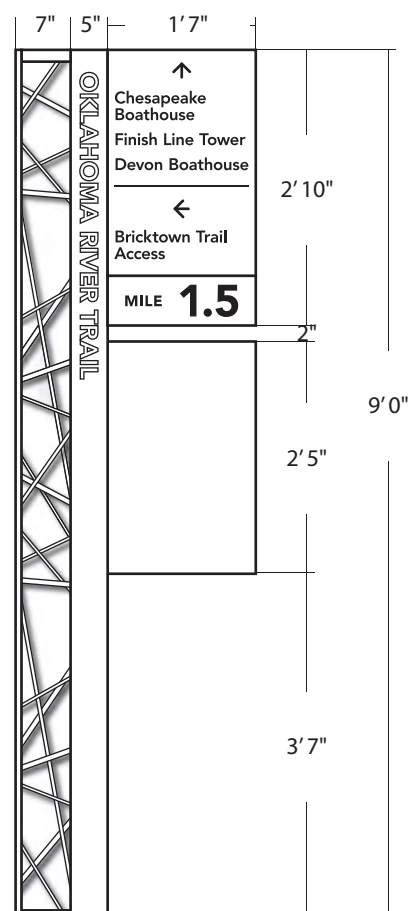
Contact: Cardinal Engineering, LLC  
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Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO



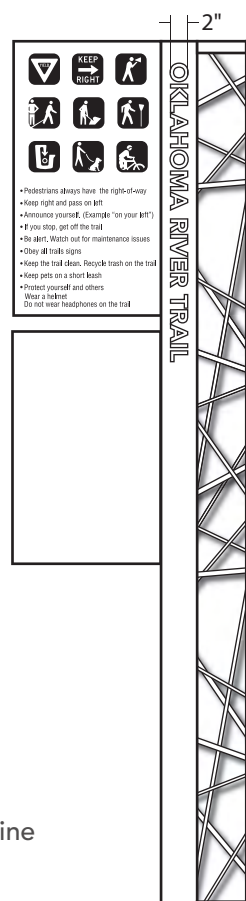
Front View



Side View



Back View

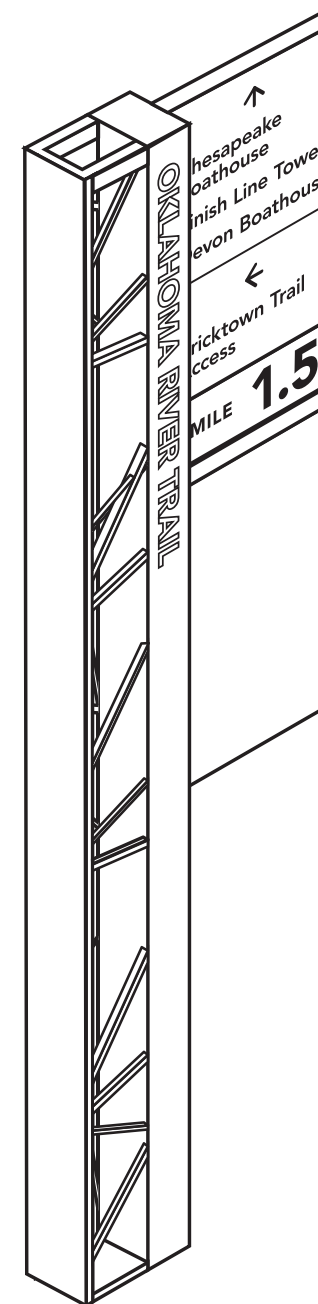


Fabricator to determine foundation per code

C Tall Directional - Dimensions

Scale: 1/2" = 1'

Isometric View



TRAIL



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
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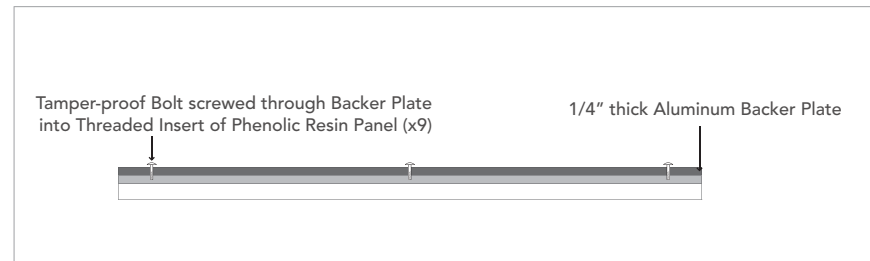
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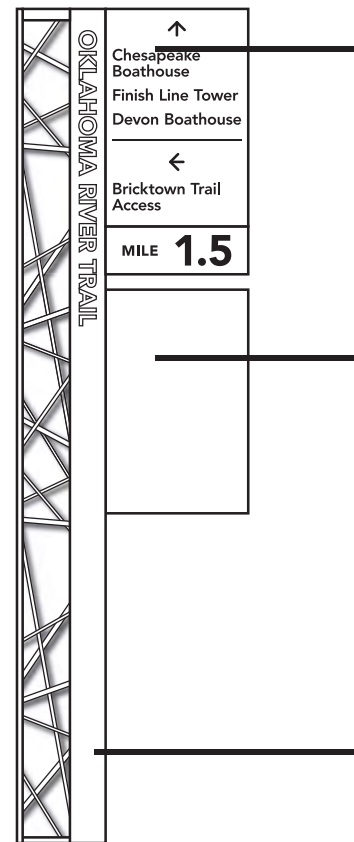
Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

Panel Backerplate Inset



Front View



Boxed Aluminum with Matthews Paint and coated with Matthews High Performance Clear Coat

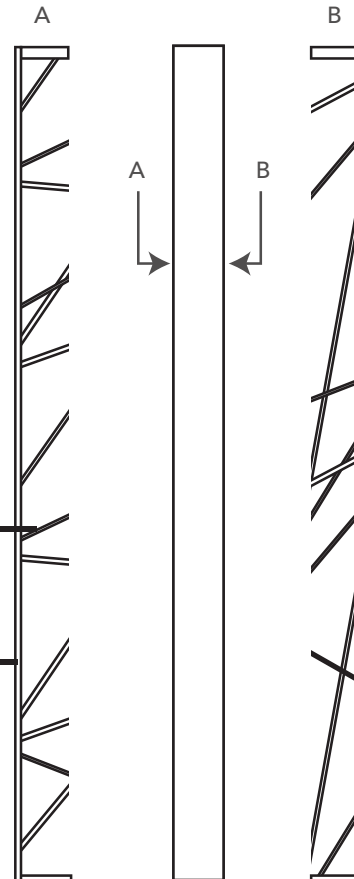
Phenolic Resin (See Panel Backerplate Inset)

ASTM A847 - 1.5" & 1" square square corten steel tube for interior pattern.

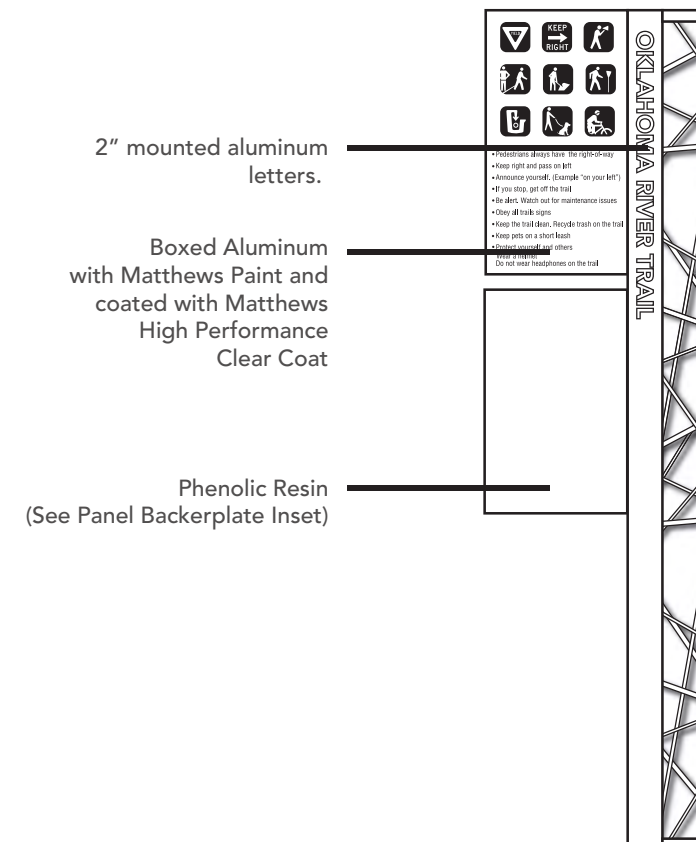
ASTM A847 - 1.5" square corten steel tube frame.

ASTM A847 - 5" x 7" rectangular corten steel tube.

Side View



Back View



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Drawn by: AEO



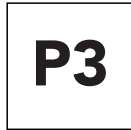
Cast Stone  
\*Fabricator to match pattern and color as sample



Matthews Polyurethane Enamel Paint MP# 02514 with UV inhibitor, finished with Matthews Super Satin Clear Coat, 290-228SP



Matthews Polyurethane Enamel Paint MP# 10224 with UV inhibitor, finished with Matthews Super Satin Clear Coat, 290-228SP



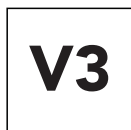
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Oralite 8800-594  
Translucent Premium Cast High Performance Film, Pastel Blue

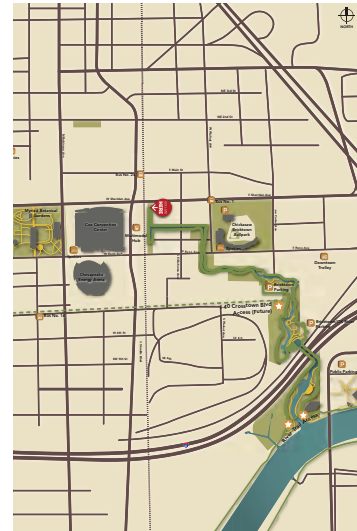


Oralite 8800-017  
Translucent Premium Cast High Performance Film, Cherry Red

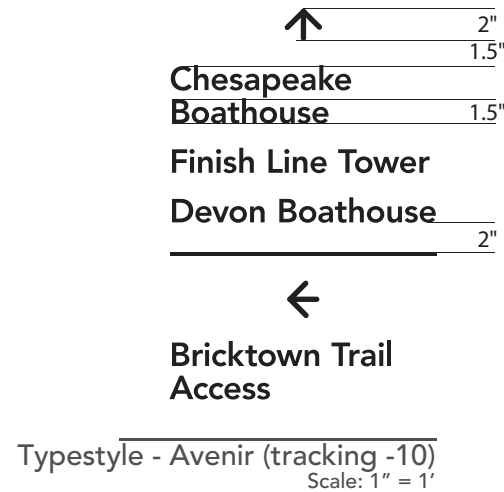


Oralite 5800-010  
Reflective Film, White

Pedestrian map example



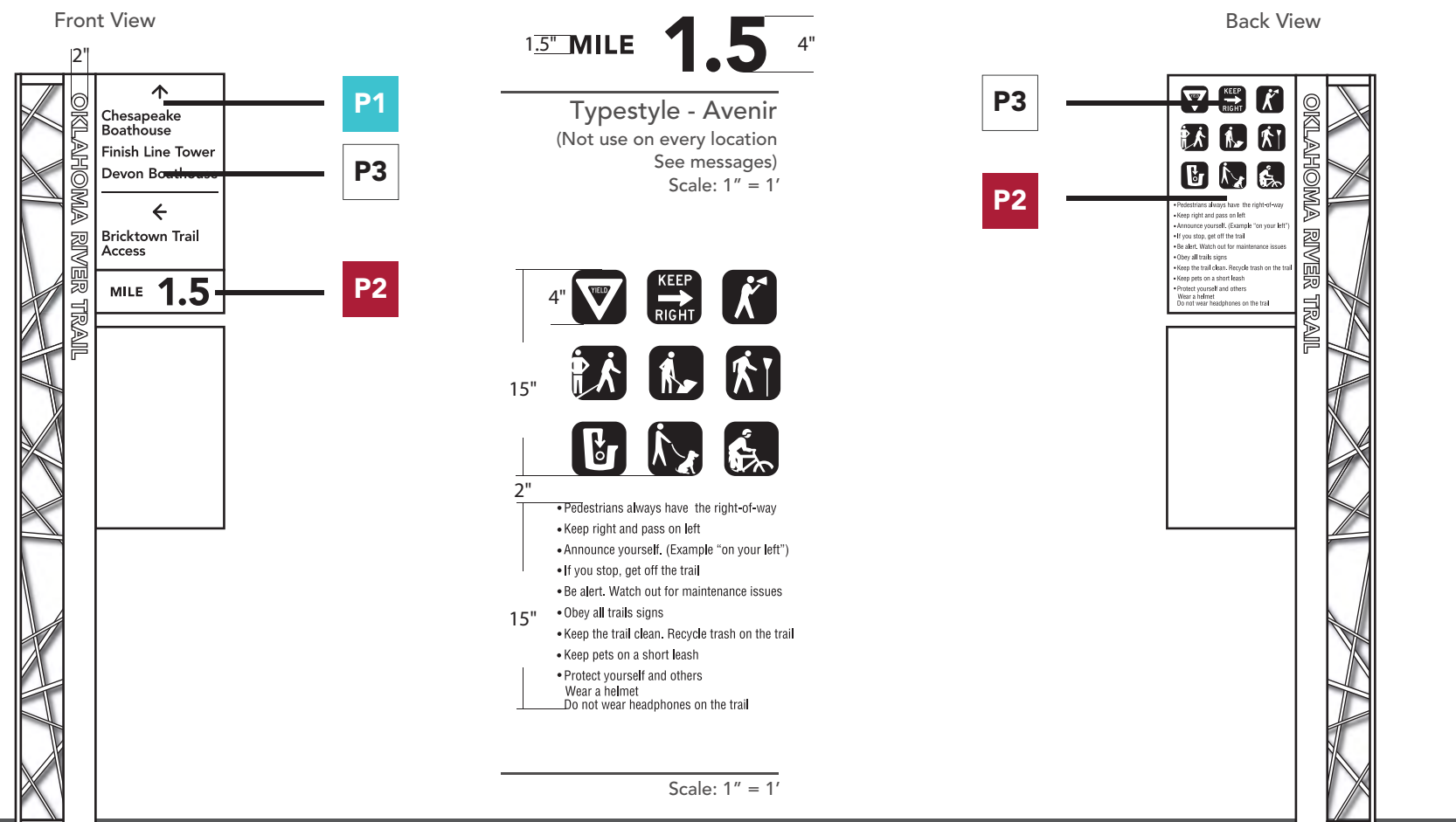
\* Graphic Example to show colors and fonts.



Tall Directional - Graphics

Scale: 1/2" = 1'

2" **OKLAHOMA RIVER TRAIL**  
Typestyle - Avenir Black (tracking -40)  
Scale: 1" = 1'



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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City of Oklahoma City  
Parks and Recreation Dept.

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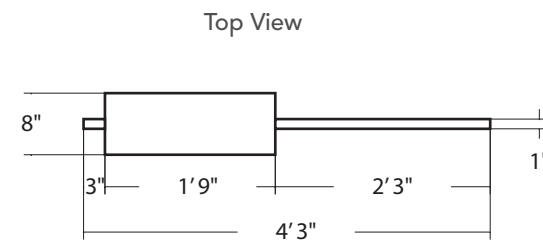
Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

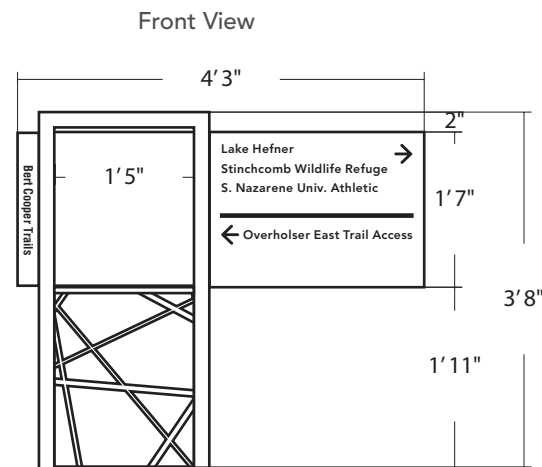
D

Small Directional - Dimensions

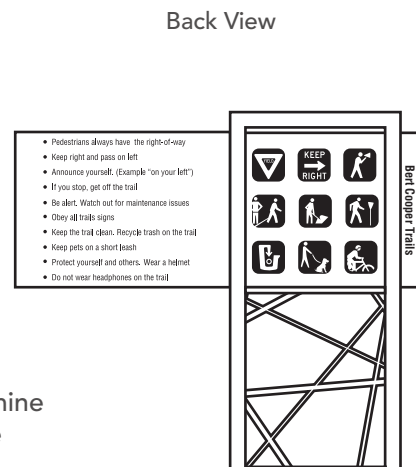
Scale: 1/2" = 1'



Top View

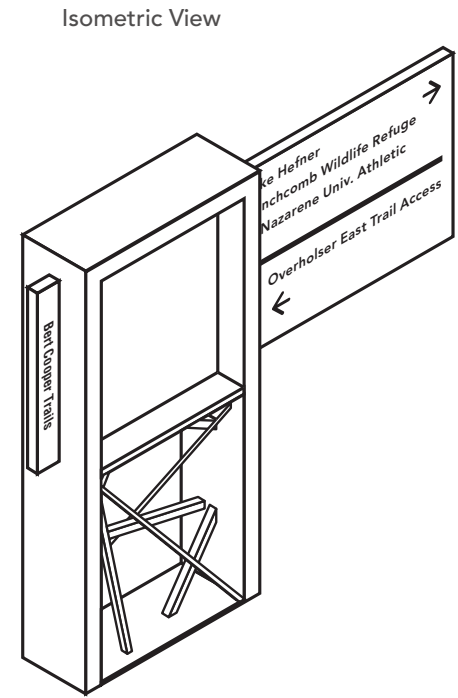


Front View



Back View

Fabricator to determine foundation per code



Isometric View

TRAIL



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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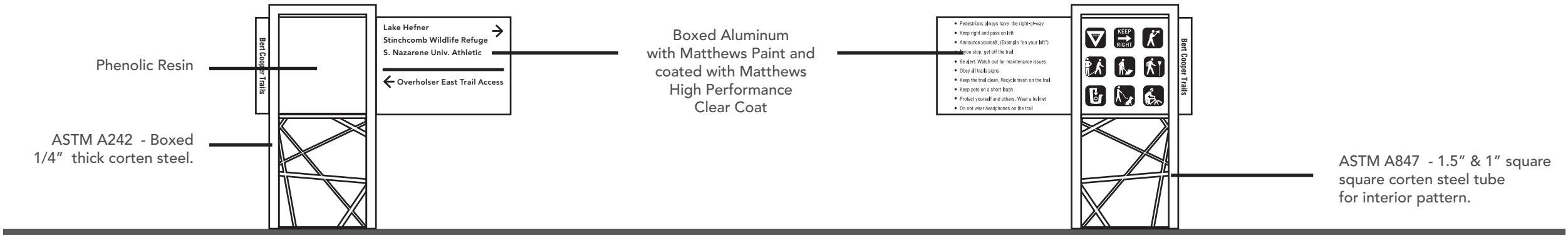
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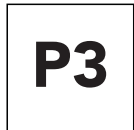
Cast Stone  
\*Fabricator to match  
pattern and color as sample



Matthews Polyurethane Enamel Paint  
MP# 02514 with UV inhibitor, finished  
with Matthews Super Satin Clear Coat,  
290-228SP



Matthews Polyurethane Enamel Paint  
MP# 10224 with UV inhibitor, finished  
with Matthews Super Satin Clear Coat,  
290-228SP



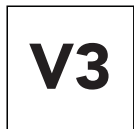
Matthews Polyurethane Enamel Paint  
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with Matthews Super Satin Clear Coat,  
290-228SP



Oralite 8800-594  
Translucent Premium Cast High  
Performance Film, Pastel Blue



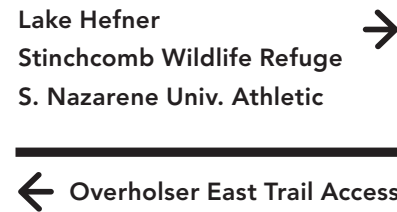
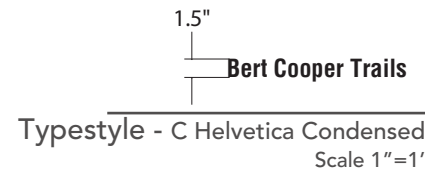
Oralite 8800-017  
Translucent Premium Cast High  
Performance Film, Cherry Red



Oralite 5800-010  
Reflective Film, White

**D** Small Directional - Materials & Graphics

Scale: 1/2" = 1'



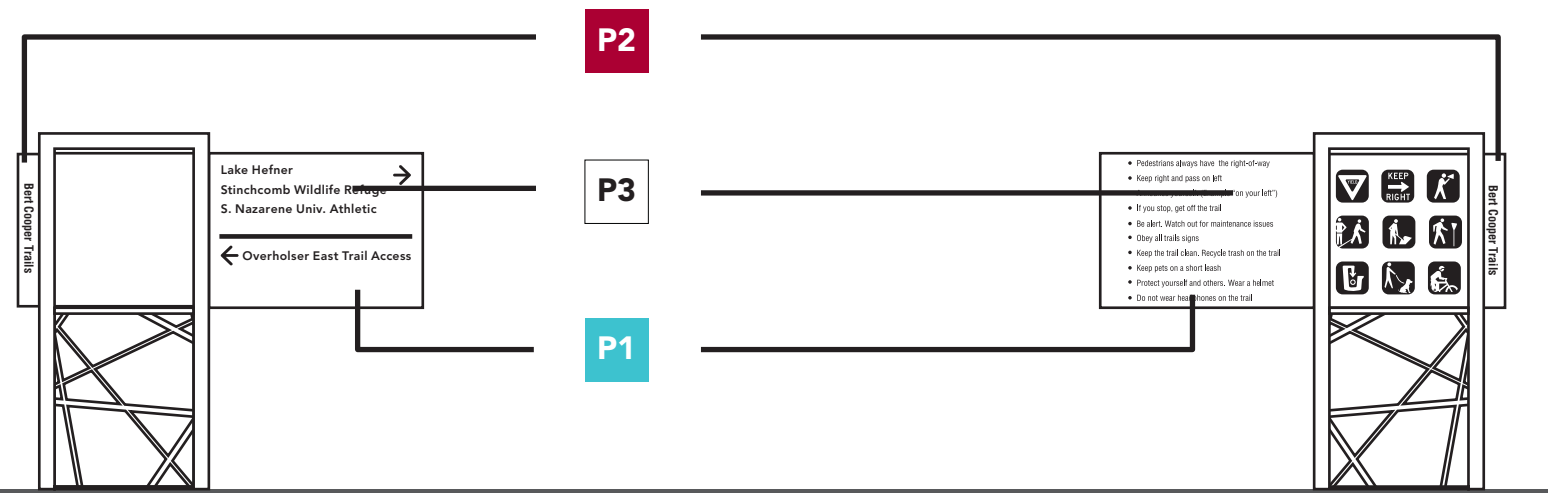
Typestyle - Avenir  
Scale 1"=1'

- Pedestrians always have the right-of-way
- Keep right and pass on left
- Announce yourself. (Example "on your left")
- If you stop, get off the trail
- Be alert. Watch out for maintenance issues
- Obey all trails signs
- Keep the trail clean. Recycle trash on the trail
- Keep pets on a short leash
- Protect yourself and others. Wear a helmet
- Do not wear headphones on the trail

Typestyle - C Helvetica Condensed  
Scale 1"=1'



Scale 1"=1'



Wayfinding Master Plan for  
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Parks and Recreation Dept.

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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO





Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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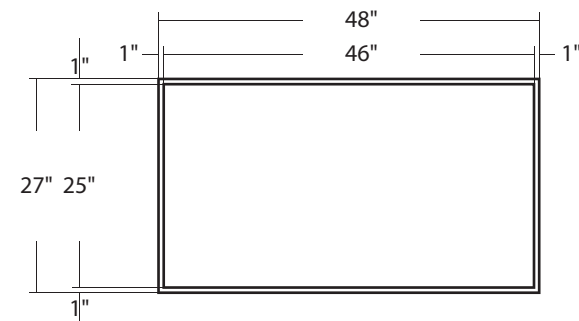
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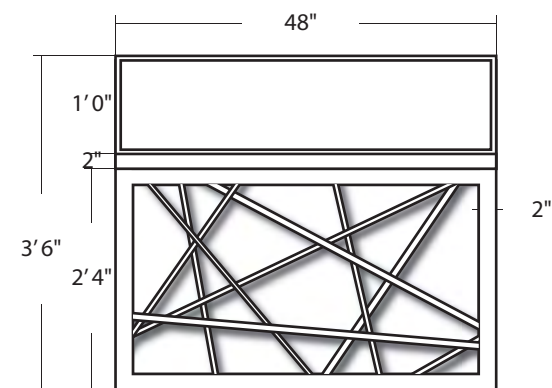
Drawn by: AEO

Flattened Top View

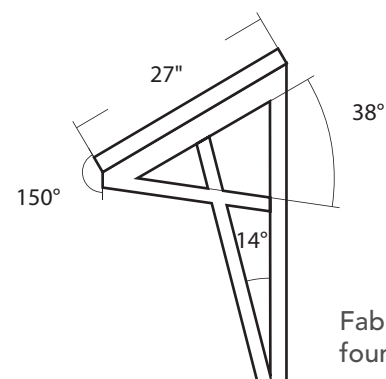


TRAIL ↓

Front View

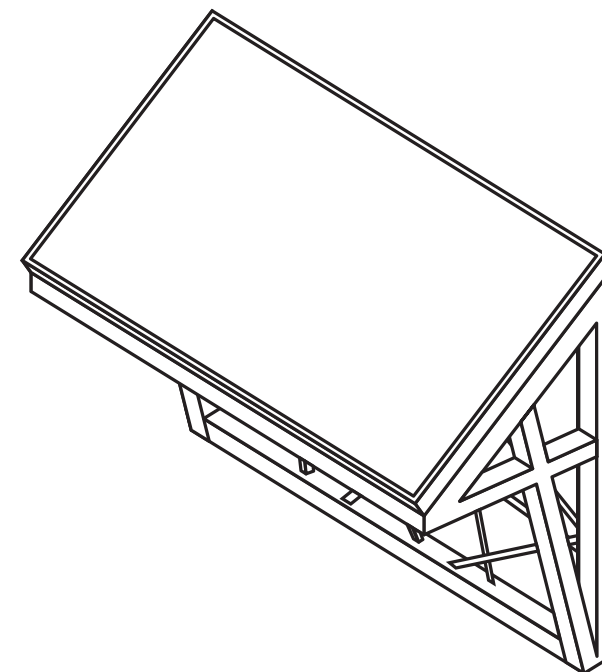


Side View



Fabricator to determine foundation per code

Isometric View



TRAIL



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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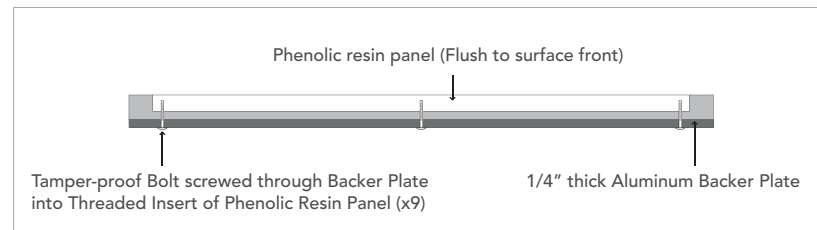
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

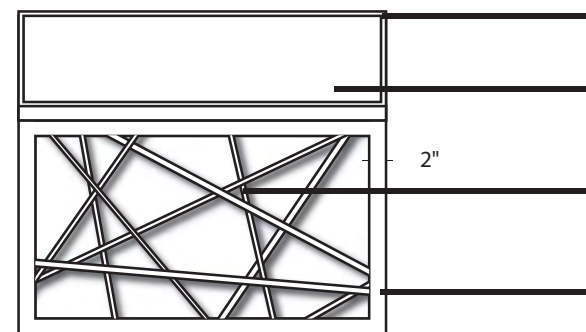
Project Team: SPC  
 AEO  
 NLC  
 KMN

Drawn by: AEO

Panel Backerplate Inset



Front View



Boxed Aluminum with Matthews Paint and coated with Matthews High Performance Clear Coat

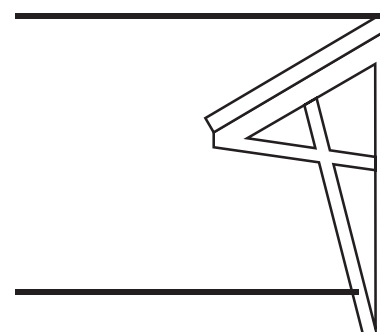
Phenolic Resin (See Panel Backerplate Inset)

ASTM A847 - 1.5" & 1" square square corten steel tube for interior pattern.

ASTM A847 - 2" square corten steel tube frame.

2"

Side View





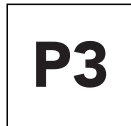
Cast Stone  
\*Fabricator to match  
pattern and color as sample



Matthews Polyurethane Enamel Paint  
MP# 02514 with UV inhibitor, finished  
with Matthews Super Satin Clear Coat,  
290-228SP



Matthews Polyurethane Enamel Paint  
MP# 10224 with UV inhibitor, finished  
with Matthews Super Satin Clear Coat,  
290-228SP



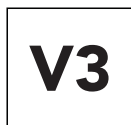
Matthews Polyurethane Enamel Paint  
MP# 27386 with UV inhibitor, finished  
with Matthews Super Satin Clear Coat,  
290-228SP



Oralite 8800-594  
Translucent Premium Cast High  
Performance Film, Pastel Blue



Oralite 8800-017  
Translucent Premium Cast High  
Performance Film, Cherry Red

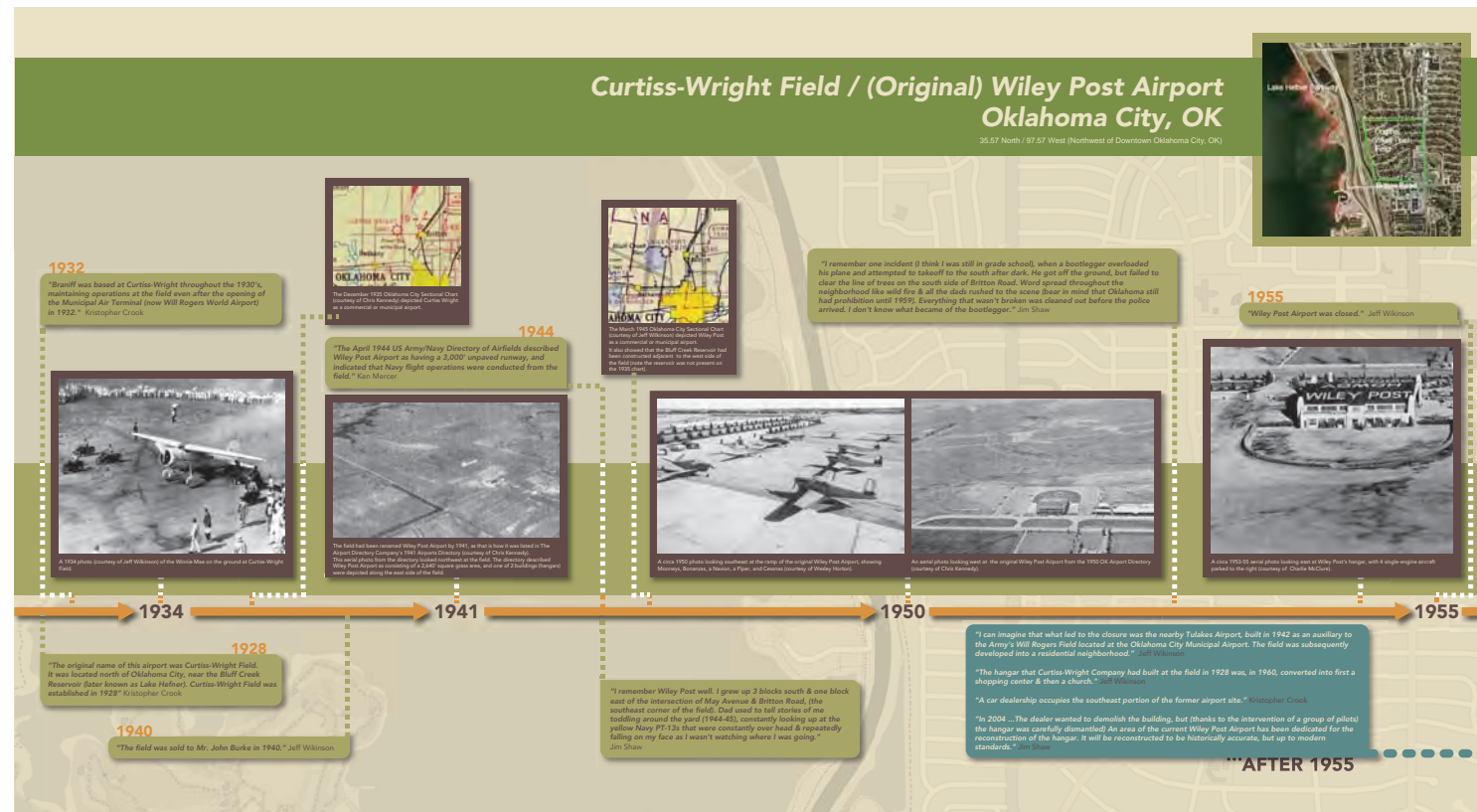


Oralite 5800-010  
Reflective Film, White



Interpretive - Graphics

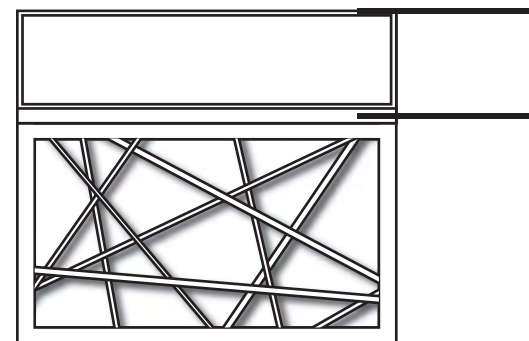
Scale: 1/2" = 1'



\* Final Interpretive Content  
and Graphics by City

Graphic Example  
Scale: NTS

Front View



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1/2" = 1'

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full size plans only. AECOM is not responsible for  
scale discrepancies caused by reduced or enlarged  
site plans.

Description: Design Intent  
Document

Original Issue Date: 03.06.15

Revision:

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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

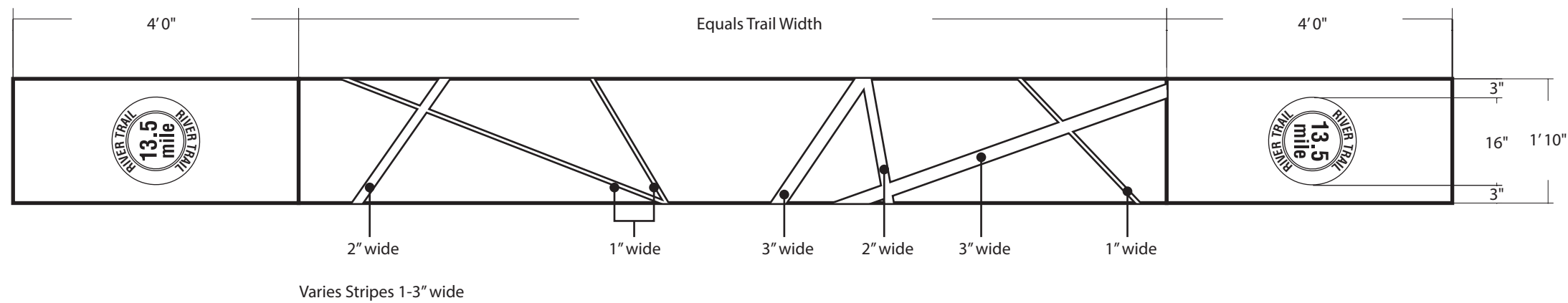
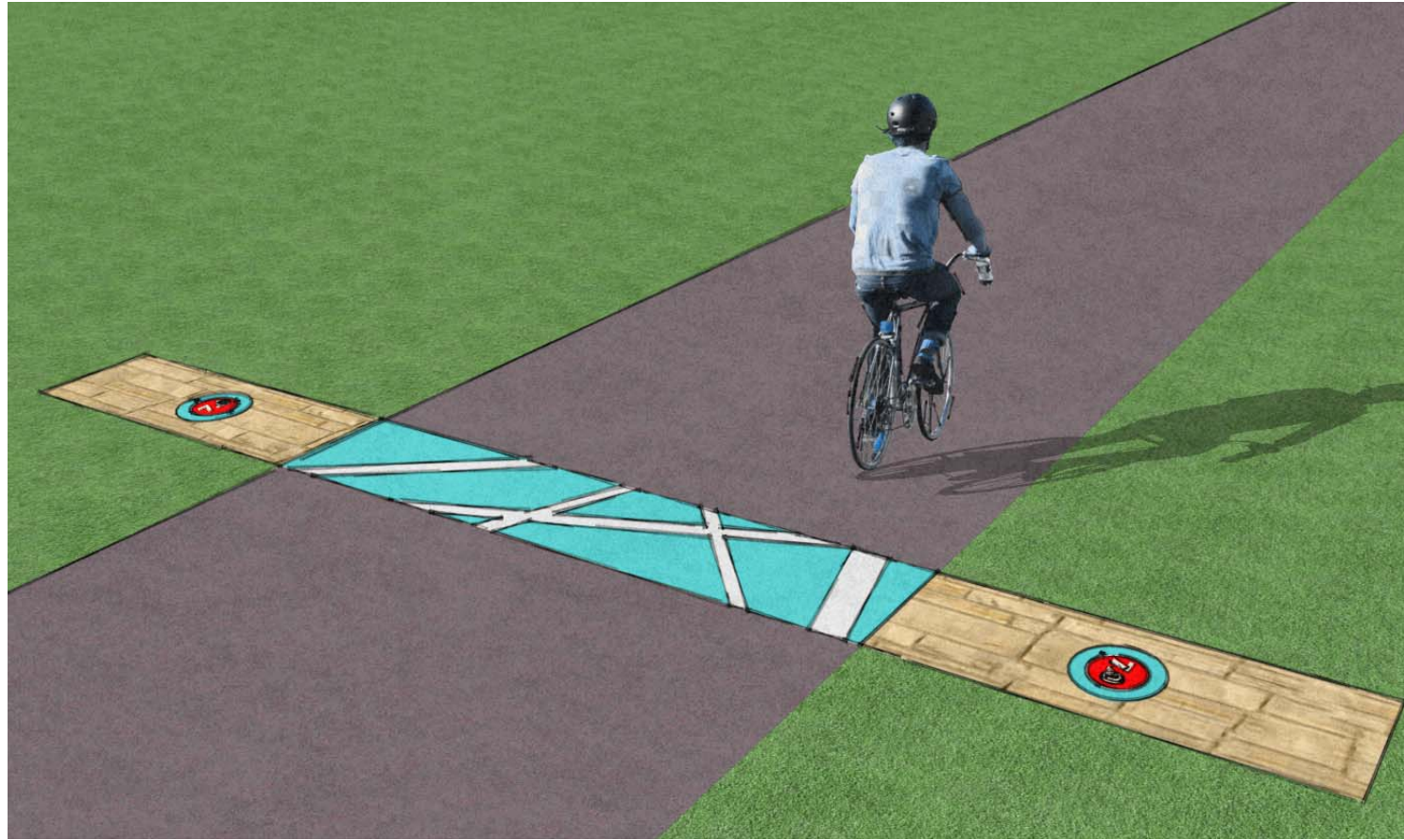
Drawn by: AEO

024

F

Mile Marker - Dimensions

Scale: 1/2" = 1'



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

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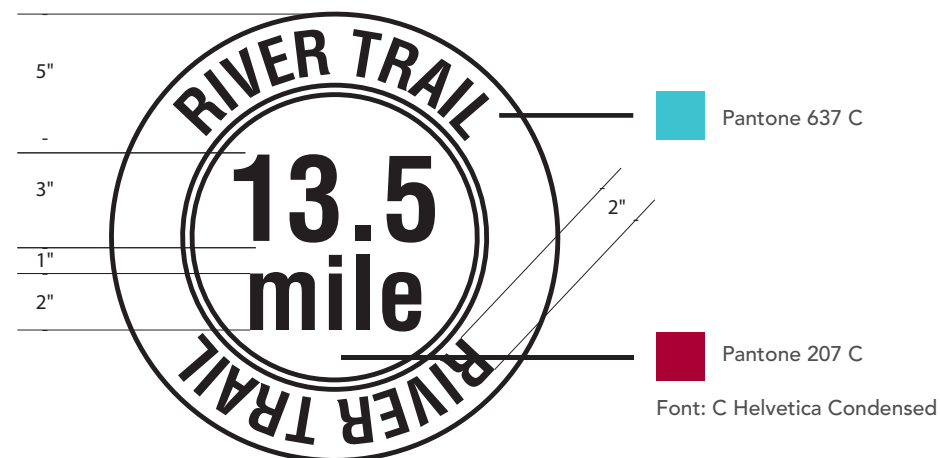
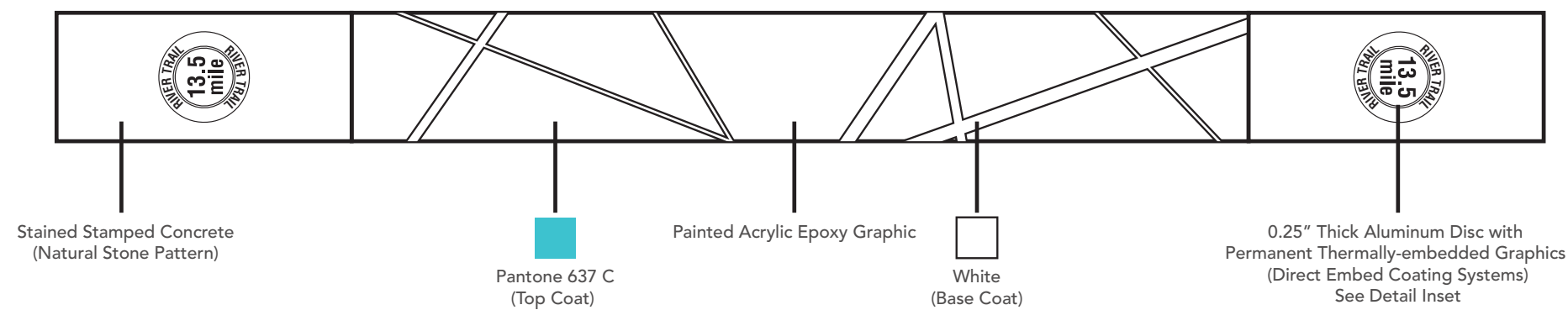
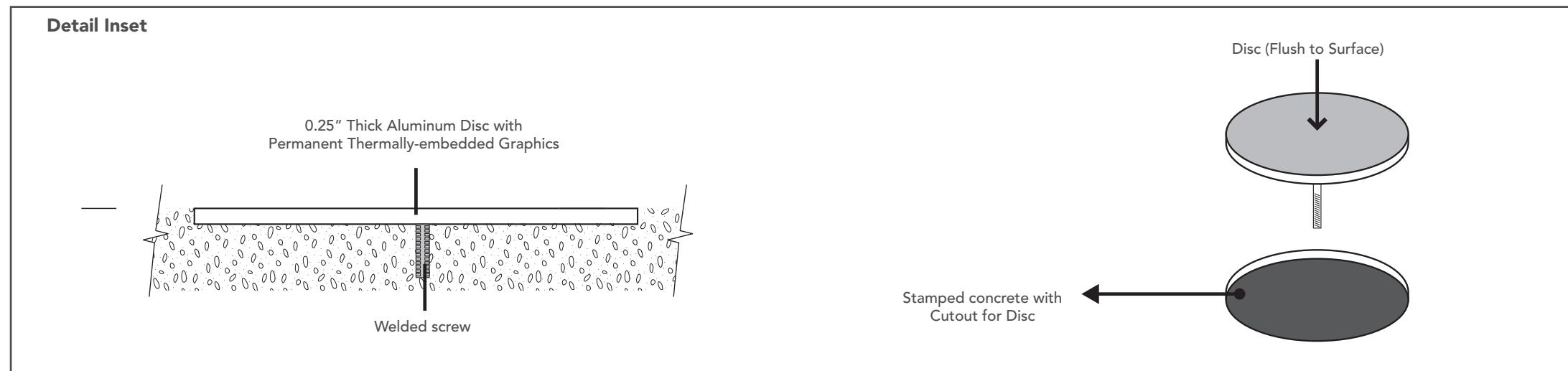
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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
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 Parks and Recreation Dept.

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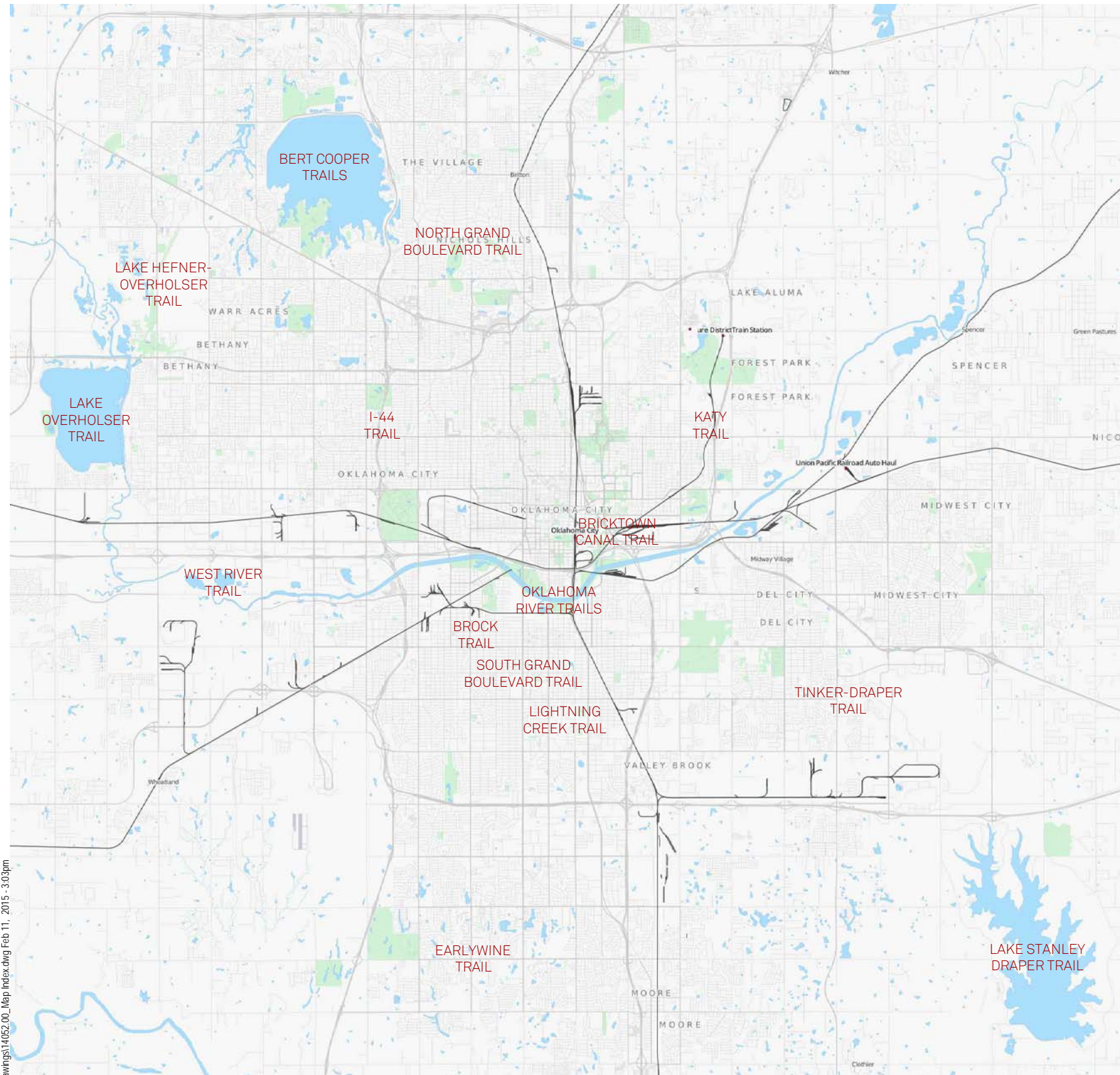
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 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Project Team: SPC  
 AEO  
 NLC  
 KMN

Drawn by: AEO

*Sign Location & Messages*



G:\Projects\14052.00\Civil\Caol\Production Drawings\14052.00\_Map Index.dwg Feb 11, 2015 - 3:03pm

## TRAIL MAP INDEX

Sheet Number	Sheet Title
028	TRAIL MAP INDEX
029	BERT COOPER TRAILS - NORTHEAST
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031	BERT COOPER TRAILS - SOUTHWEST
032	BERT COOPER TRAILS - NORTHWEST
033	BRICKTOWN CANAL TRAIL
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040	KATY TRAIL - 1 OF 3
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059	TINKER-DRAPER TRAIL - 1 OF 2
060	TINKER-DRAPER TRAIL - 2 OF 2
061	WEST RIVER TRAIL

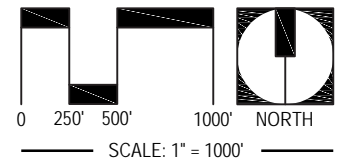


Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: DESIGN INTENT DOCUMENT  
Trail Map Index

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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC

028

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	4
B	PARKING DIRECTIONAL SIGN	18
C	TALL PEDESTRIAN DIRECTIONAL SIGN	13
D	SMALL PEDESTRIAN DIRECTIONAL SIGN	4
E	INTERPRETIVE SIGN	3
F	MILE MARKER	19

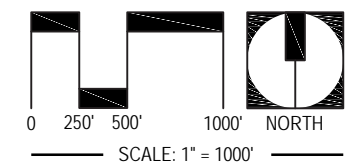


Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
BERT COOPER TRAILS -  
NORTHEAST

Original Issue Date: 03.06.15

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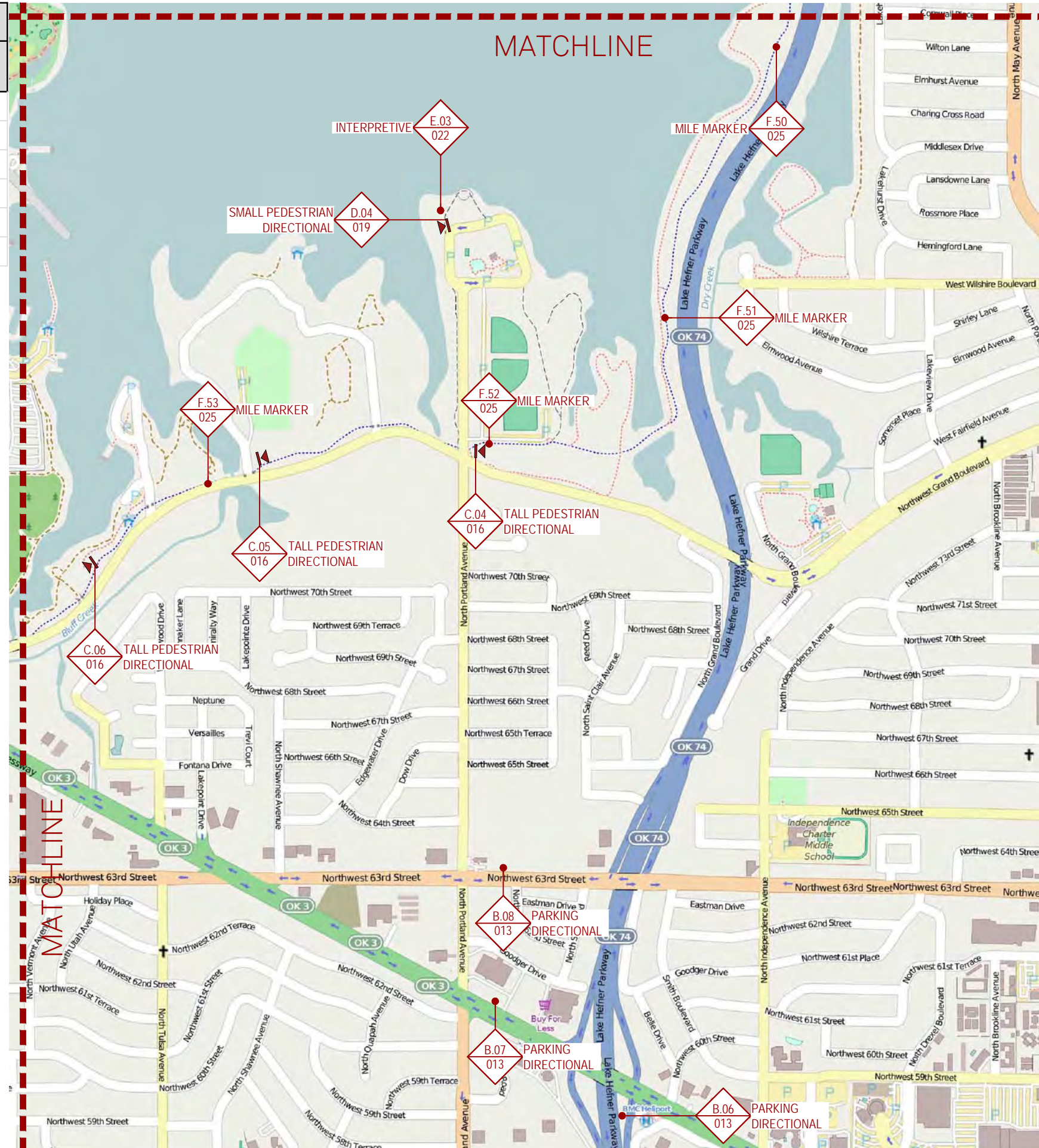
Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: NLC



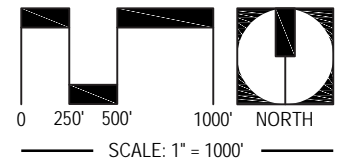
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C	TALL PEDESTRIAN DIRECTIONAL SIGN	13
D	SMALL PEDESTRIAN DIRECTIONAL SIGN	4
E	INTERPRETIVE SIGN	3
F	MILE MARKER	19



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

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 BERT COOPER TRAILS - SOUTHEAST

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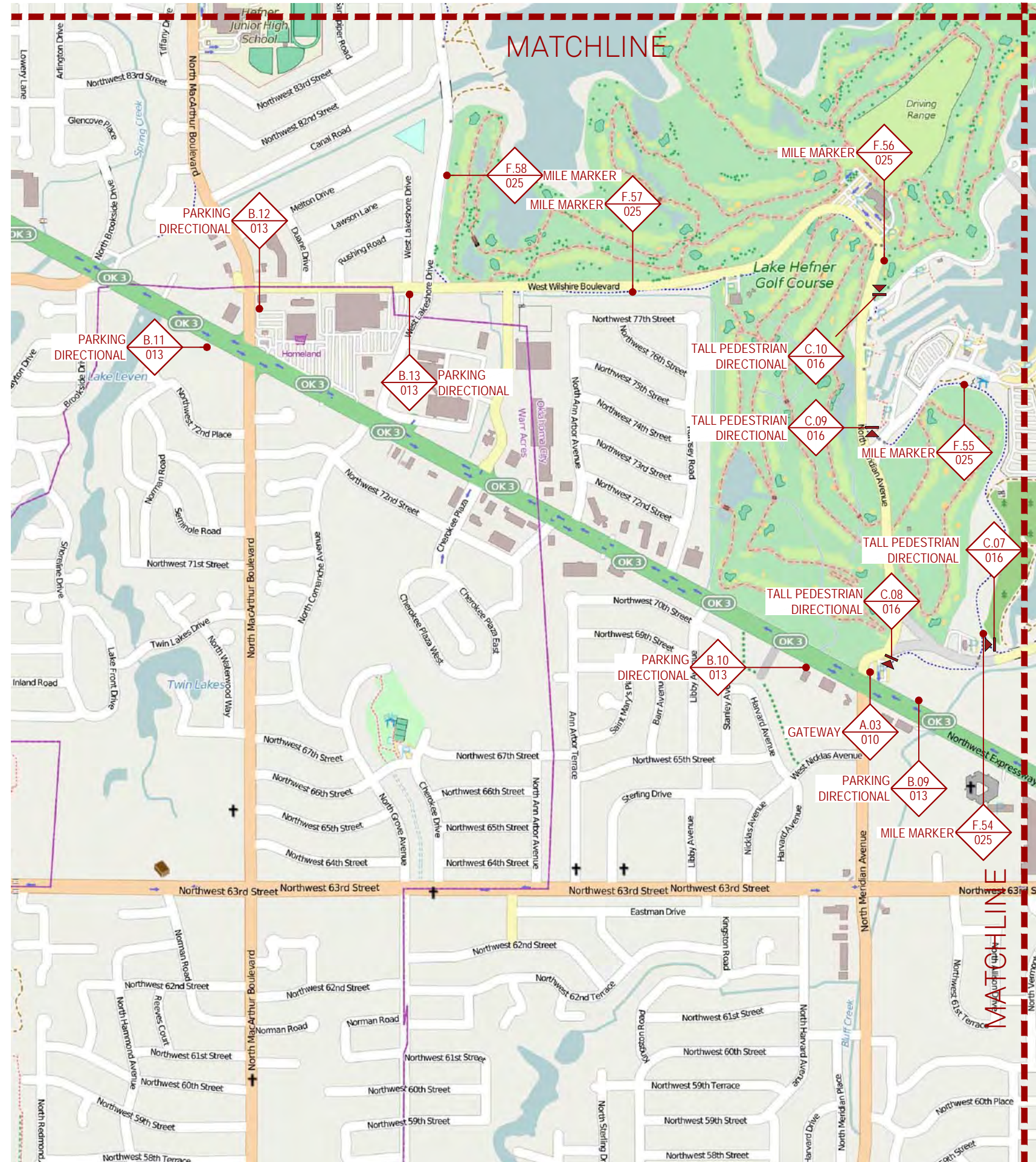
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 Oklahoma City, OK 73102  
 405.842.1066

Project Team: SPC  
 AEO  
 NLC  
 KMN  
 Drawn by: NLC

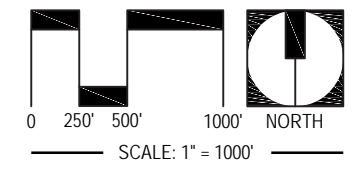
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C	TALL PEDESTRIAN DIRECTIONAL SIGN	13
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E	INTERPRETIVE SIGN	3
F	MILE MARKER	19



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Description: DESIGN INTENT DOCUMENT  
 BERT COOPER TRAILS -  
 SOUTHWEST

Original Issue Date: 03.06.15

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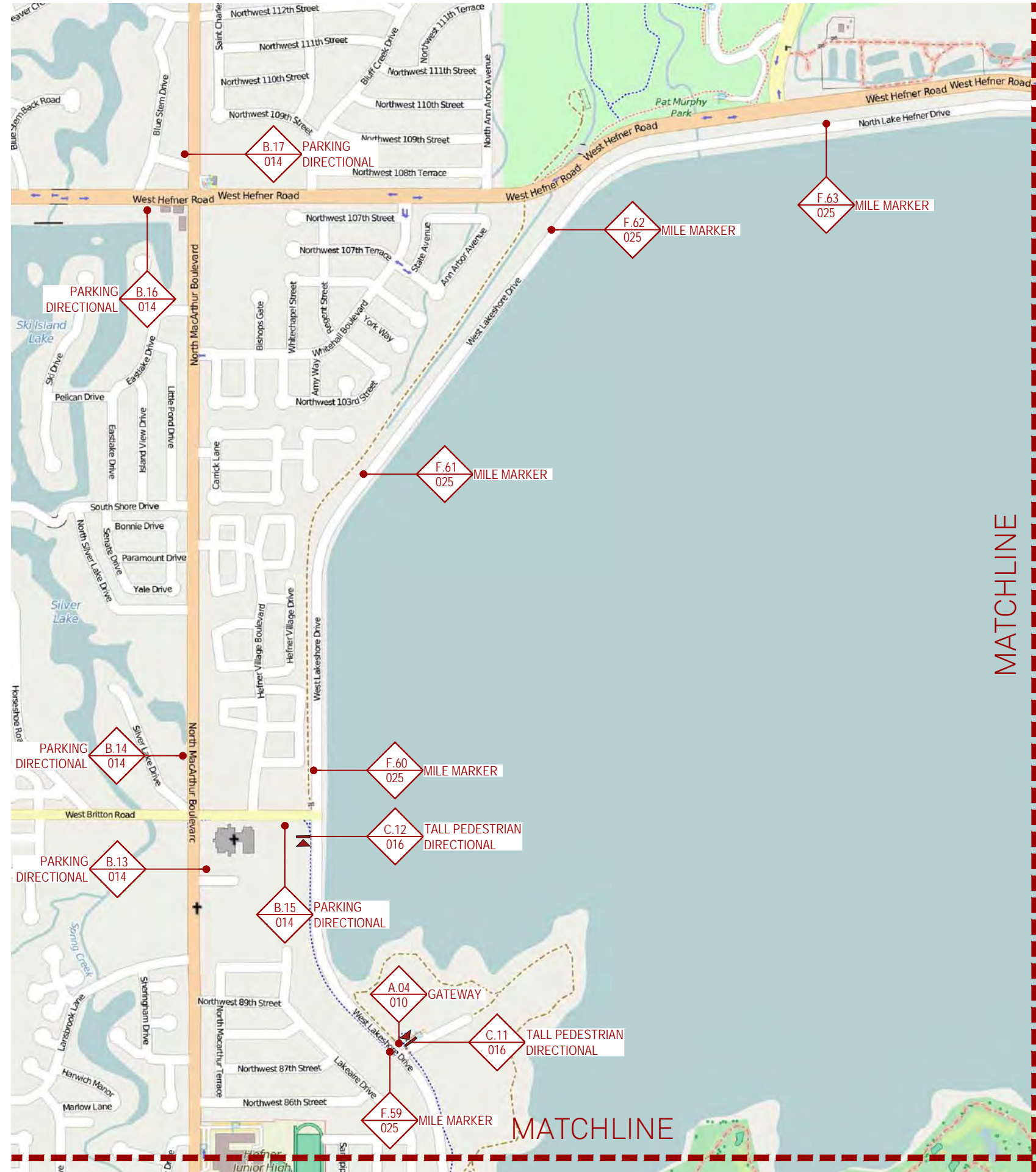
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 AEO  
 NLC  
 KMN  
 Drawn by: NLC

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B	PARKING DIRECTIONAL SIGN	18
C	TALL PEDESTRIAN DIRECTIONAL SIGN	13
D	SMALL PEDESTRIAN DIRECTIONAL SIGN	4
E	INTERPRETIVE SIGN	3
F	MILE MARKER	19

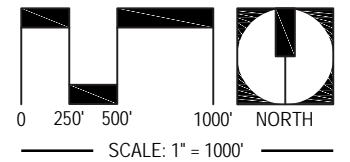


Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

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City of Oklahoma City  
Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
BERT COOPER TRAILS -  
NORTHWEST

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Revision:

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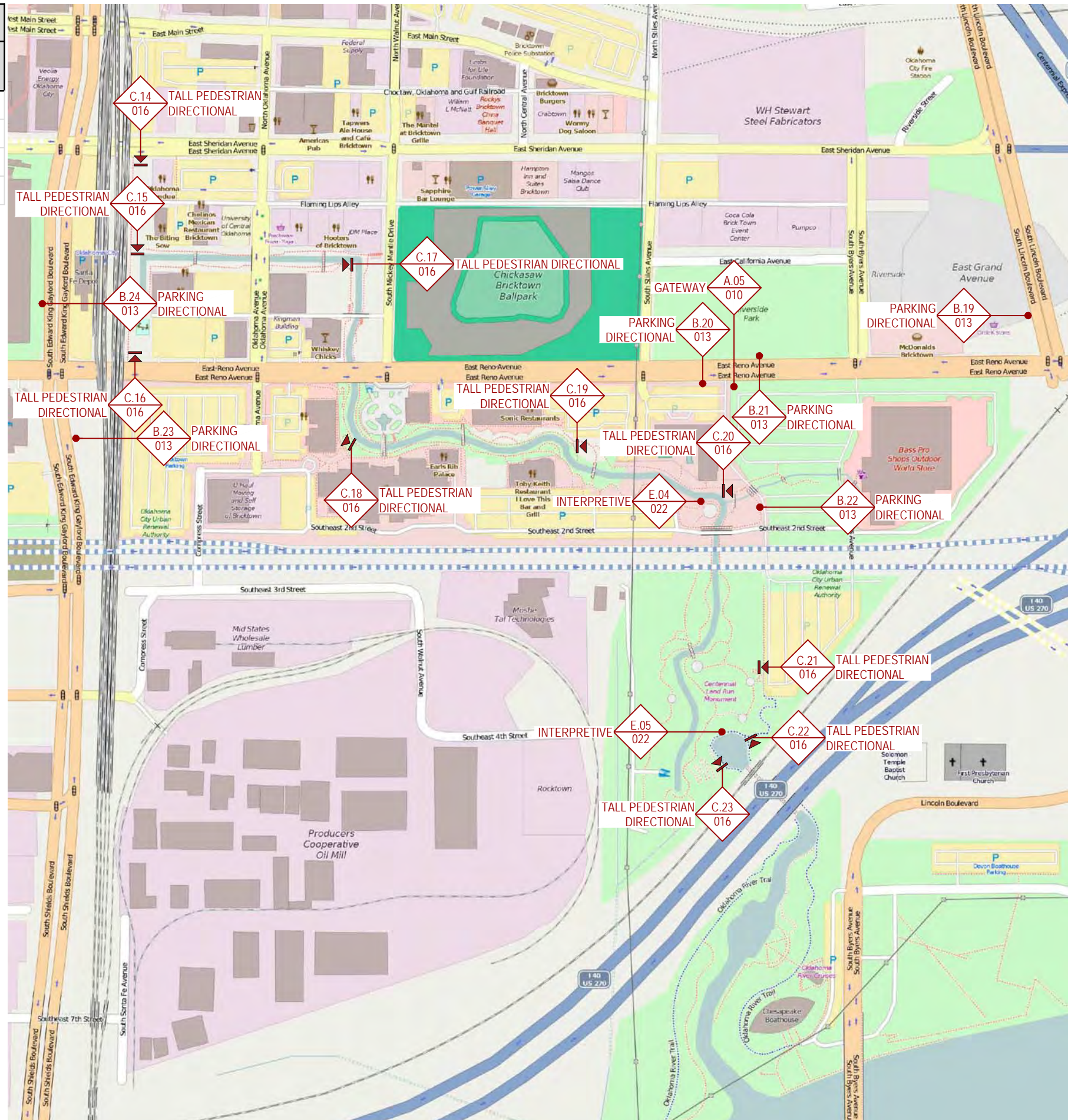
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Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC

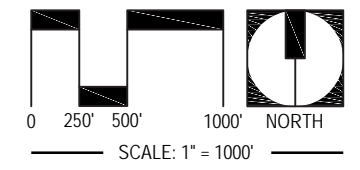
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B	PARKING DIRECTIONAL SIGN	6
C	TALL PEDESTRIAN DIRECTIONAL SIGN	10
E	INTERPRETIVE SIGN	2



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
 BRICKTOWN CANAL TRAIL

Original Issue Date: 03.06.15

Revision:

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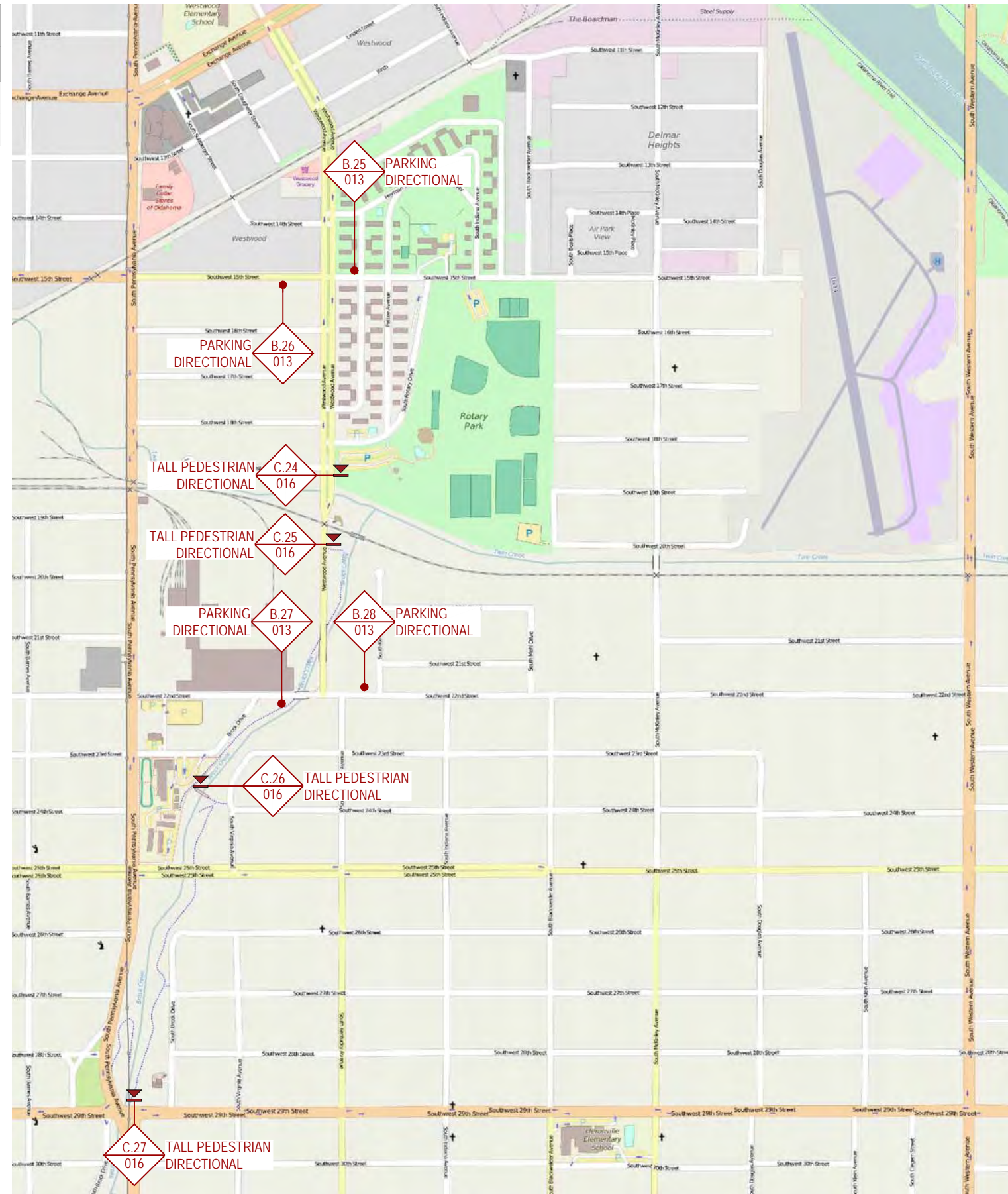
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 405.842.1066

Project Team: SPC  
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 NLC  
 KMN  
 Drawn by: NLC

Note: The Bricktown Canal Trail occurs in the Bricktown Urban Design District. Proposed improvements will be required to be submitted to the Bricktown Urban Design Committee for review and approval.

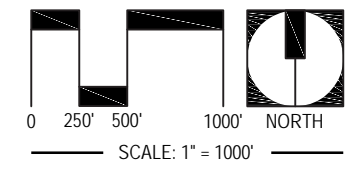
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ID	DESCRIPTION	QUANTITY
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C	TALL PEDESTRIAN DIRECTIONAL SIGN	4



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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Description: DESIGN INTENT DOCUMENT  
 BROCK TRAIL

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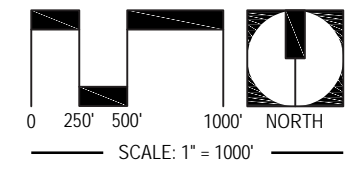
Contact: Cardinal Engineering, LLC  
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 405.842.1066

Project Team: SPC  
 AEO  
 NLC  
 KMN  
 Drawn by: NLC

Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
EARLYWINE TRAIL

Original Issue Date: 03.06.15

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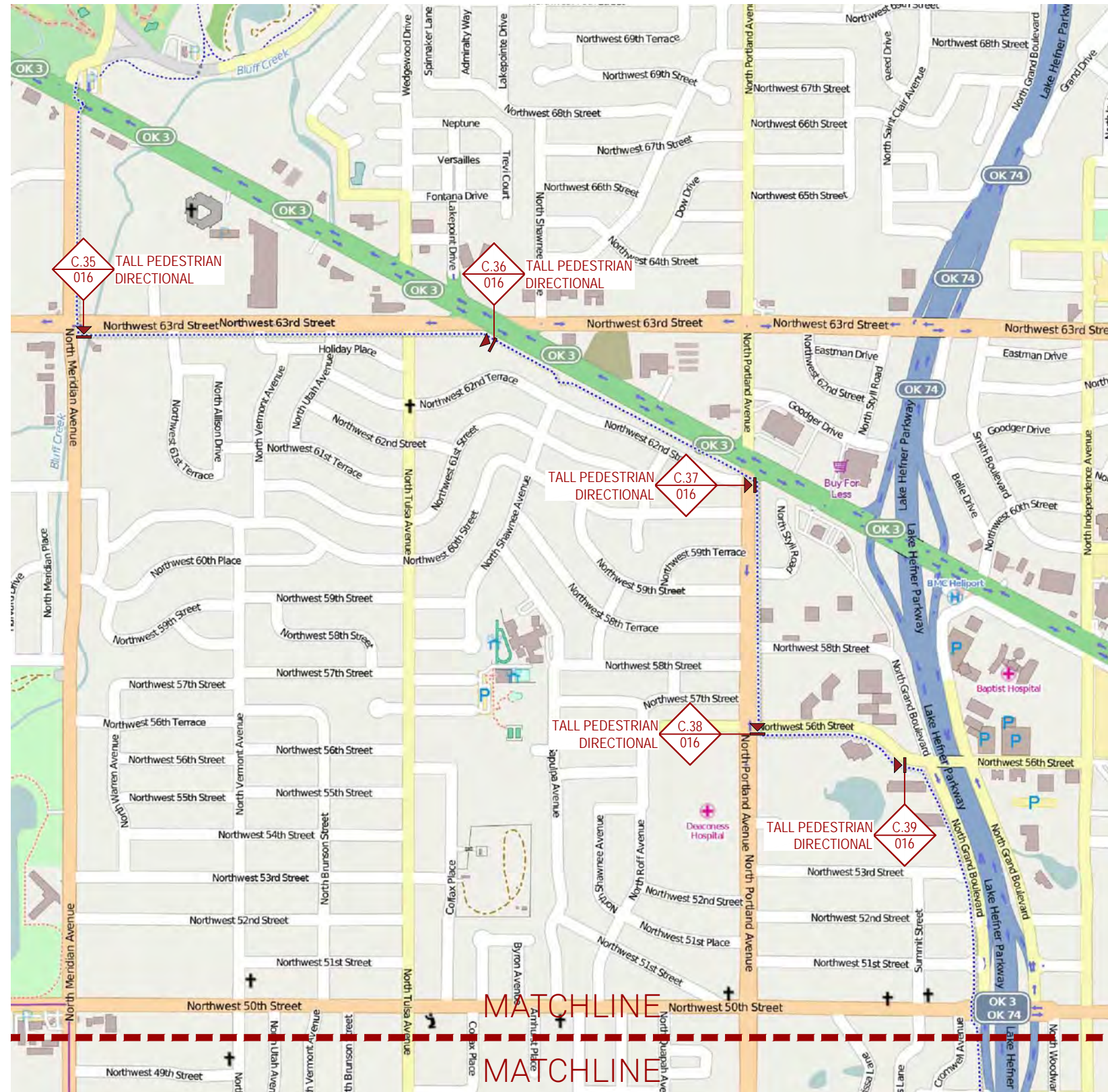
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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC



SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
B	PARKING DIRECTIONAL SIGN	2
C	TALL PEDESTRIAN DIRECTIONAL SIGN	7



MATCHLINE  
MATCHLINE

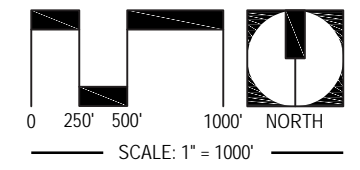
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ID	DESCRIPTION	QUANTITY
C	TALL PEDESTRIAN DIRECTIONAL SIGN	18



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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City of Oklahoma City  
Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
I-44 TRAIL 1 OF 4

Original Issue Date: 03.06.15

Revision:

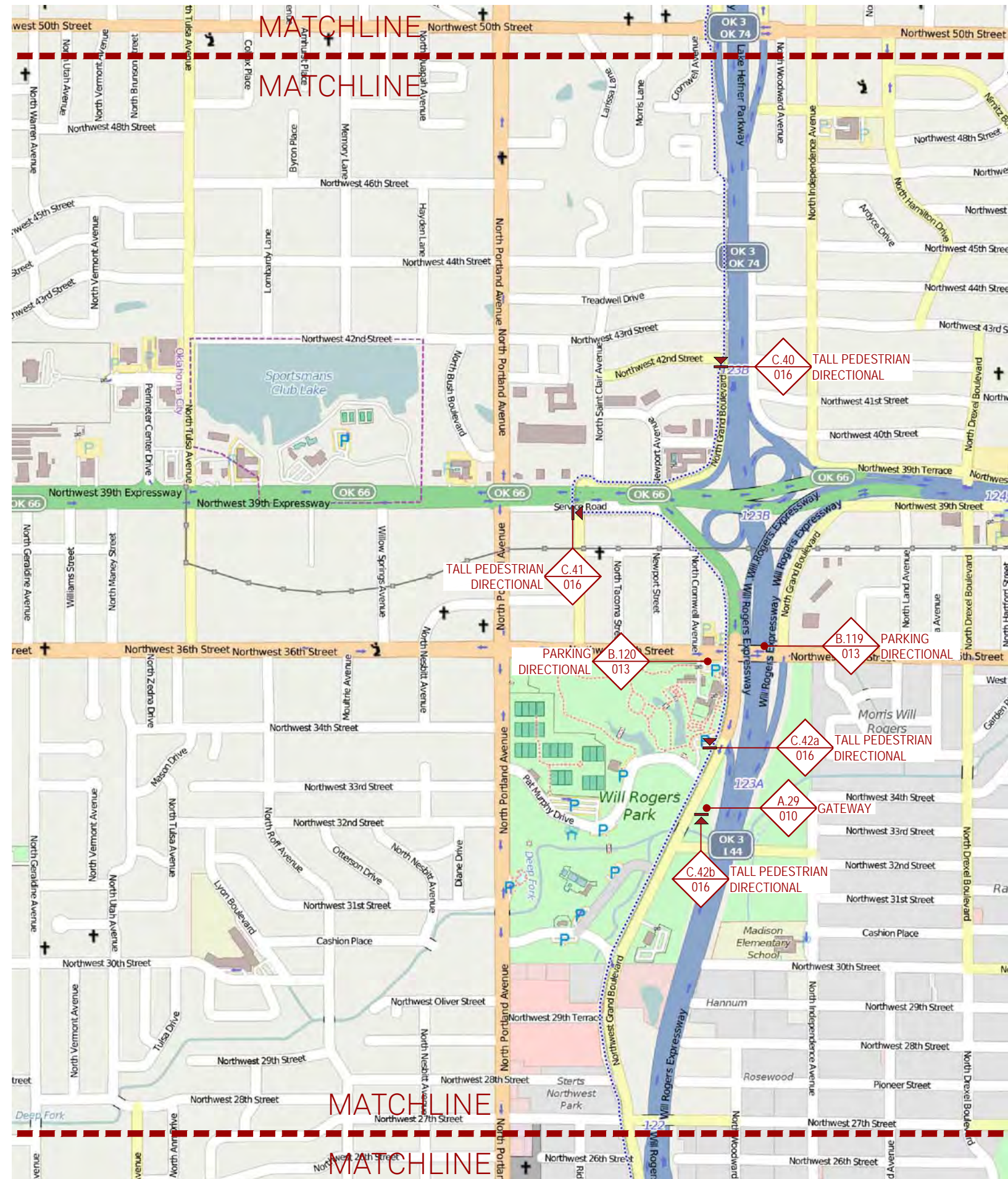
Signature/Seal:  
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Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC

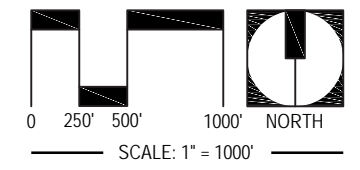
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A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	4
C	TALL PEDESTRIAN DIRECTIONAL SIGN	19



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
 I-44 TRAIL 2 OF 4

Original Issue Date: 03.06.15

Revision:

Signature/Seal:  
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**NOT FOR CONSTRUCTION**

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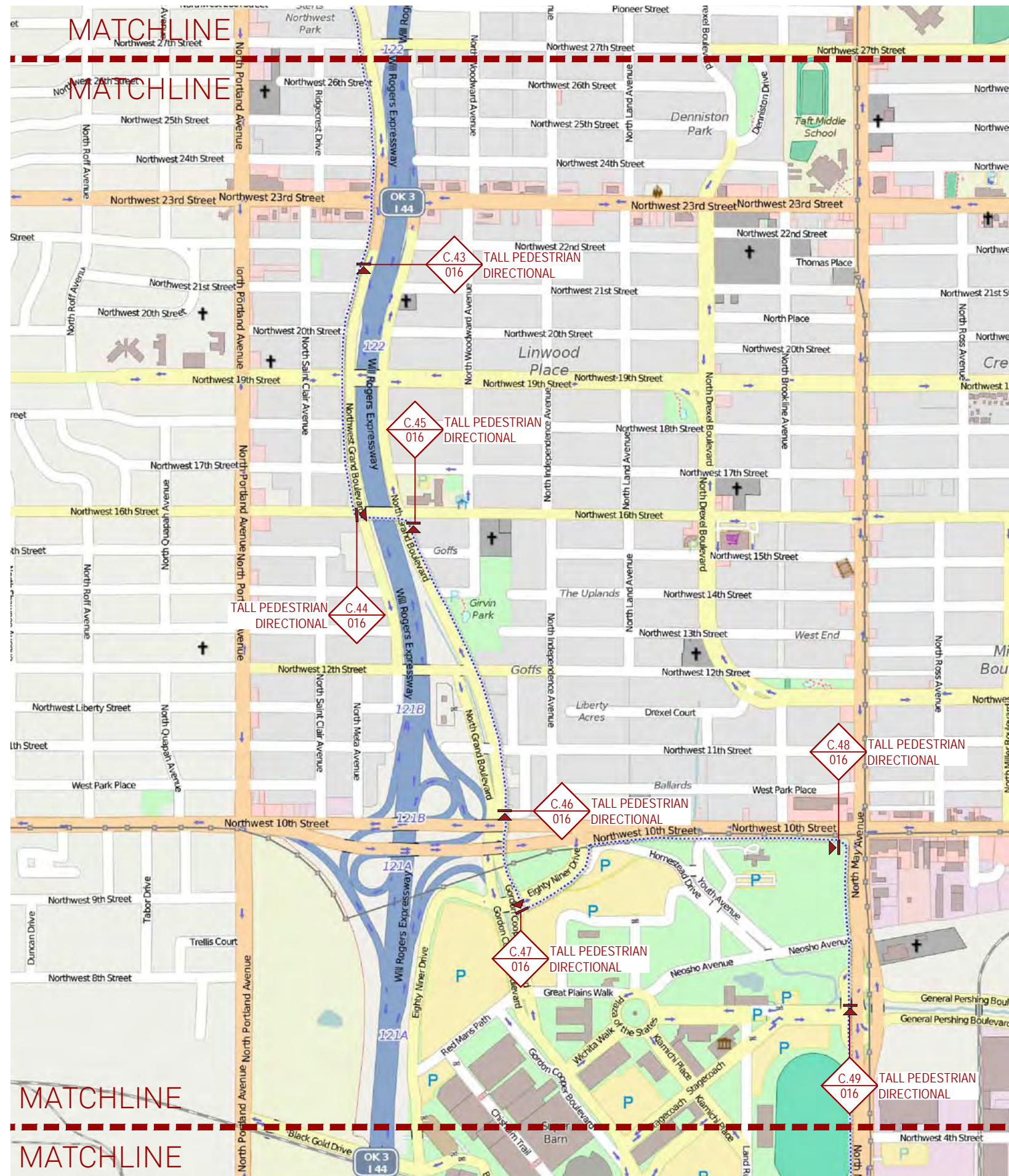
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Project Team: SPC  
 AEO  
 NLC  
 KMN  
 Drawn by: NLC



SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
C	TALL PEDESTRIAN DIRECTIONAL SIGN	18

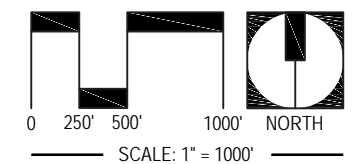


Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

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City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: DESIGN INTENT DOCUMENT  
I-44 TRAIL 3 OF 4

Original Issue Date: 03.06.15

Revision:

Signature/Seal:

**DRAFT**  
NOT FOR CONSTRUCTION

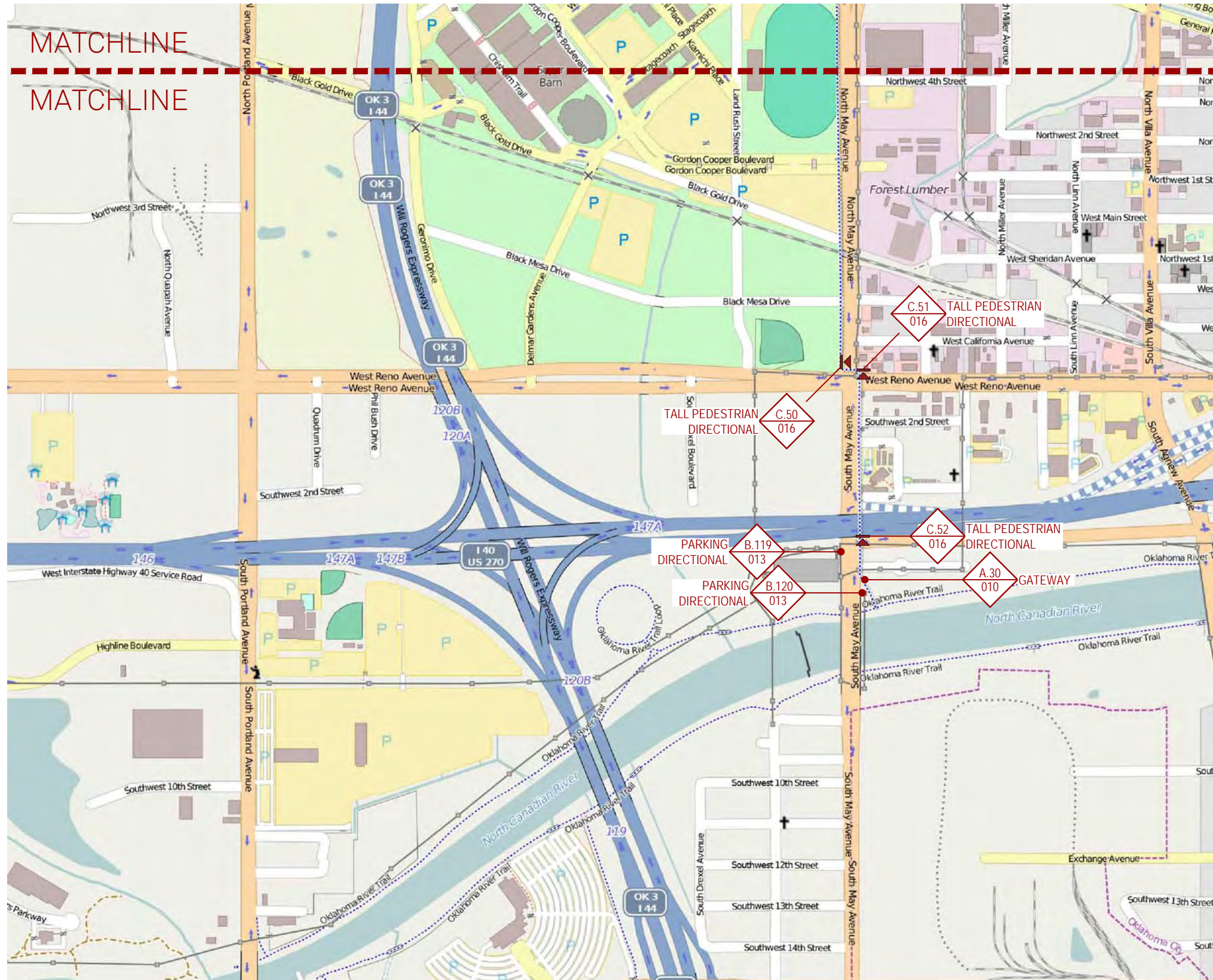
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The content of this document is subject to the design intent requirements outlined in the specifications.

Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

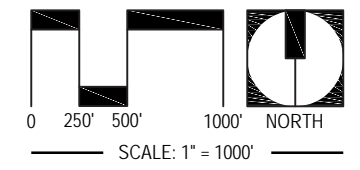
Drawn by: NLC



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'  
Note: Drawing scale shown on plans is accurate for full size plans only. Cardinal is not responsible for scale discrepancies caused by reduced or enlarged plan reproductions.



Description: DESIGN INTENT DOCUMENT  
I-44 TRAIL 4 OF 4

Original Issue Date: 03.06.15

Revision:

Signature/Seal:  
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The content of this document is subject to the design intent requirements outlined in the specifications.

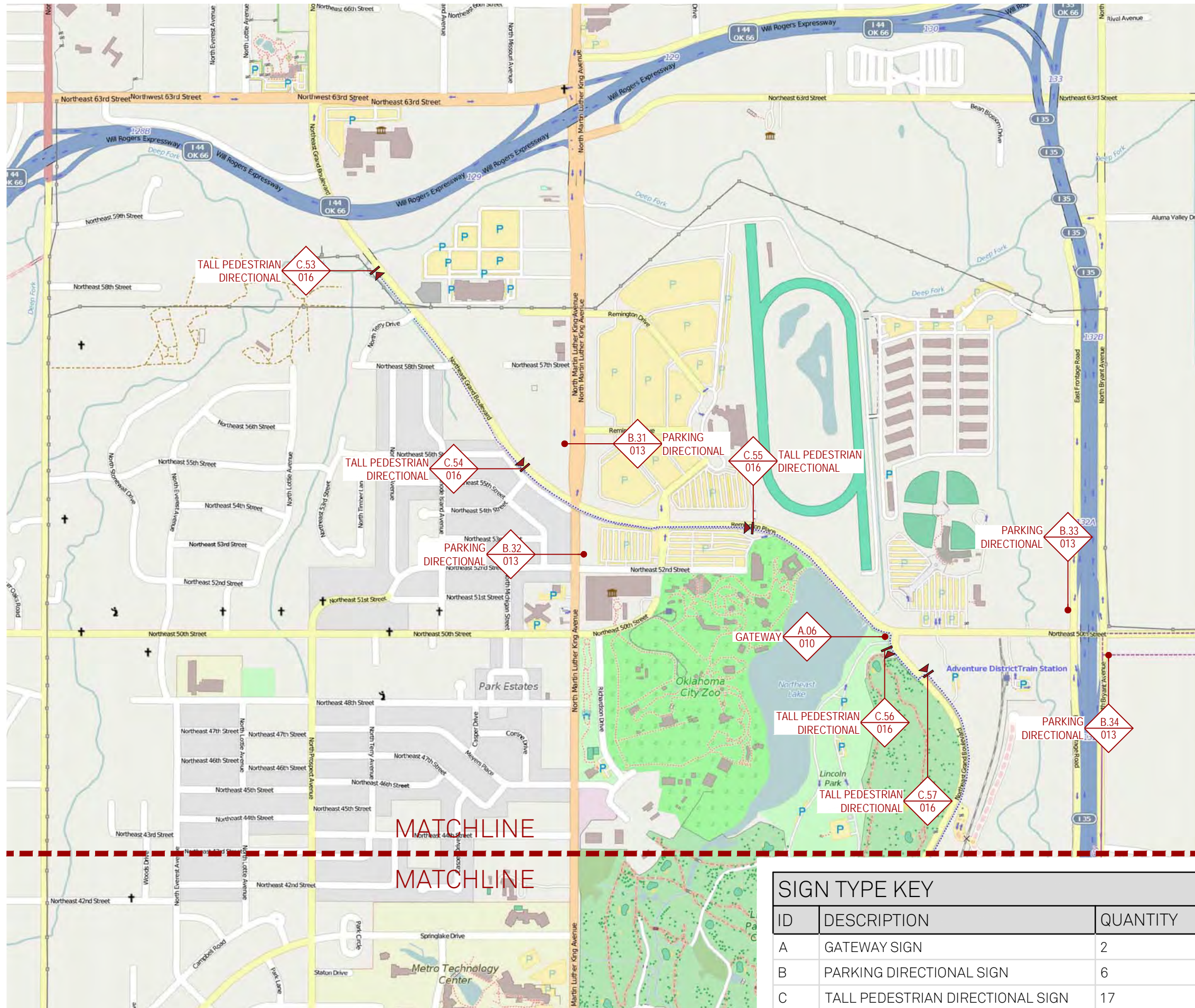
Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC

SIGN TYPE KEY

ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	4
C	TALL PEDESTRIAN DIRECTIONAL SIGN	19

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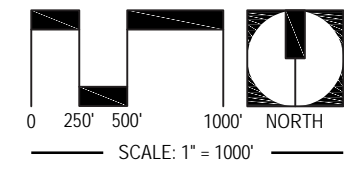
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ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	6
C	TALL PEDESTRIAN DIRECTIONAL SIGN	17



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
 KATY TRAIL - 1 OF 3

Original Issue Date: 03.06.15

Revision:

Signature/Seal:  
**DRAFT**  
 NOT FOR CONSTRUCTION

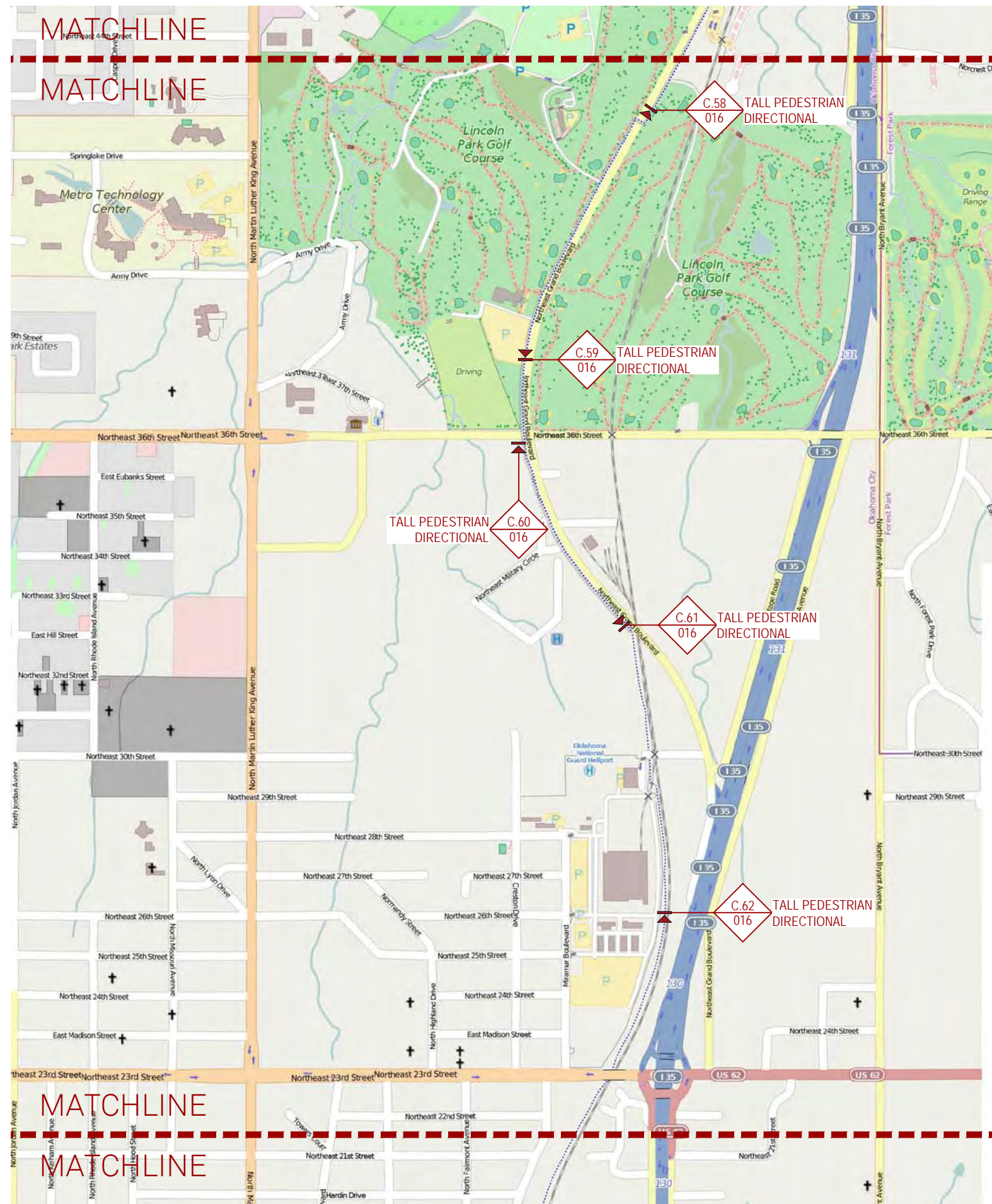
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Project Team: SPC  
 AEO  
 NLC  
 KMN  
 Drawn by: NLC

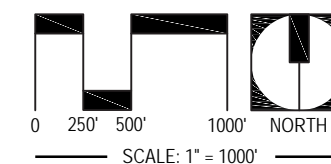
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A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	6
C	TALL PEDESTRIAN DIRECTIONAL SIGN	17



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
KATY TRAIL - 2 OF 3

Original Issue Date: 03.06.15

Revision:

Signature/Seal:

**DRAFT**  
NOT FOR CONSTRUCTION

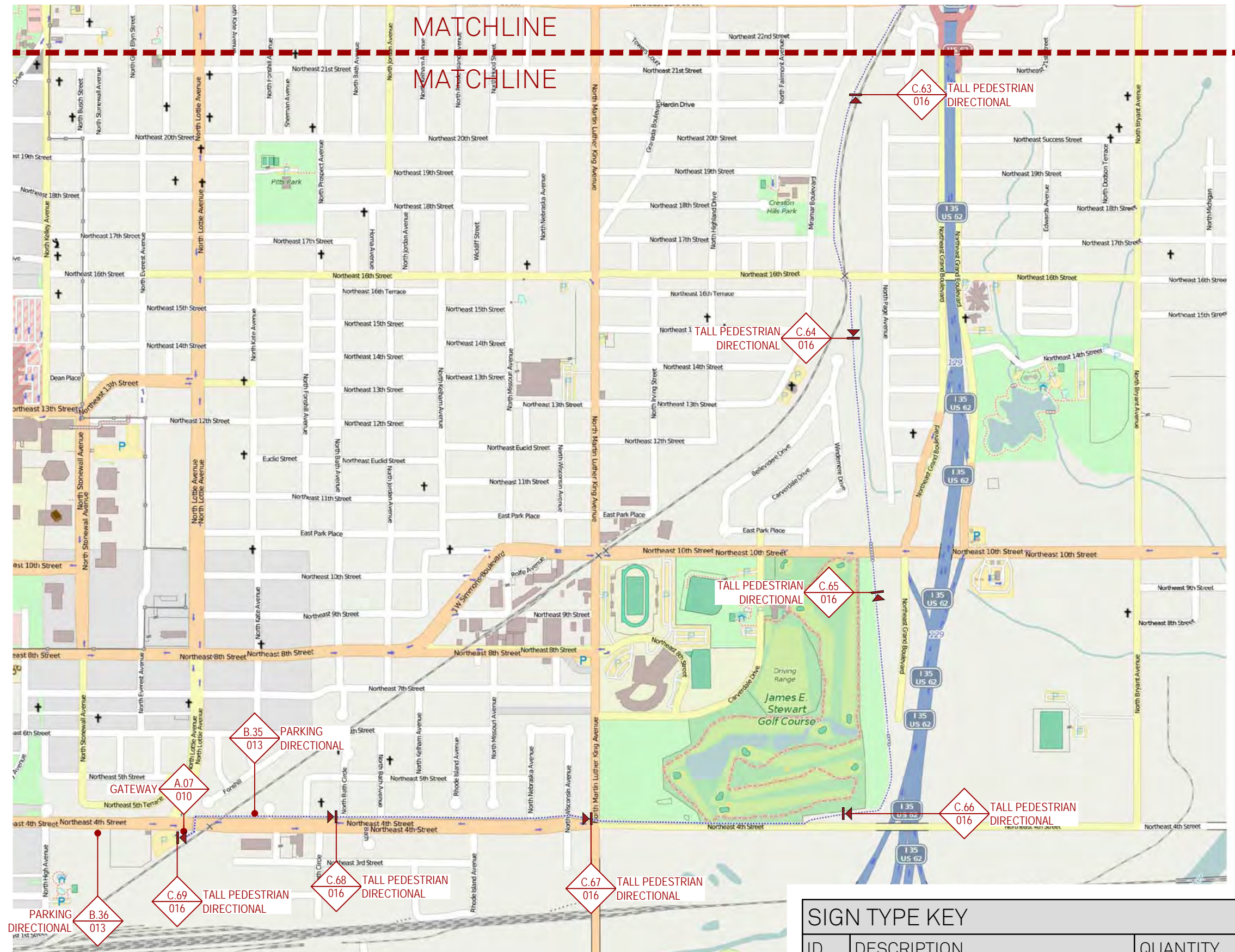
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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC

C:\Projects\14052.00\Civil\Prod\Drawings\14052.00\_Katy Trail.dwg Feb 11, 2015 - 3:29pm



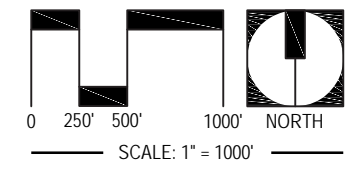
SIGN TYPE KEY		
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A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	6
C	TALL PEDESTRIAN DIRECTIONAL SIGN	17



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
 KATY TRAIL - 3 OF 3

Original Issue Date: 03.06.15

Revision:

Signature/Seal:  
**DRAFT**  
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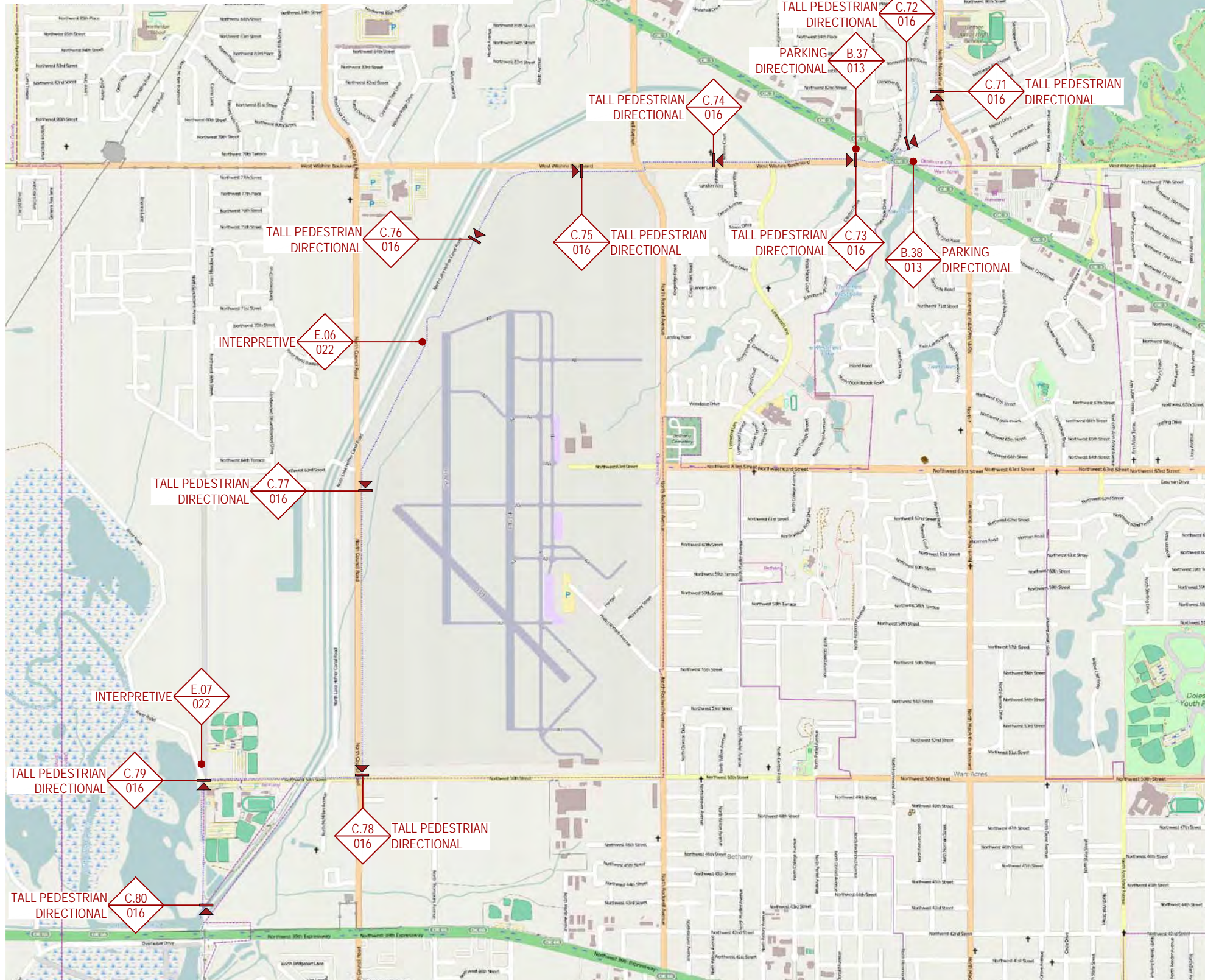
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
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 405.842.1066

Project Team: SPC  
 AEO  
 NLC  
 KMN  
 Drawn by: NLC

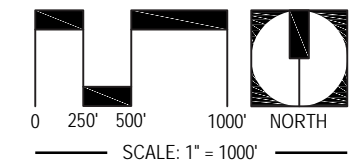
SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
B	PARKING DIRECTIONAL SIGN	2
C	TALL PEDESTRIAN DIRECTIONAL SIGN	11
E	INTERPRETIVE SIGN	2



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
LAKE HEFNER -  
OVERHOLSER TRAIL

Original Issue Date: 03.06.15

Revision:

Signature/Seal:

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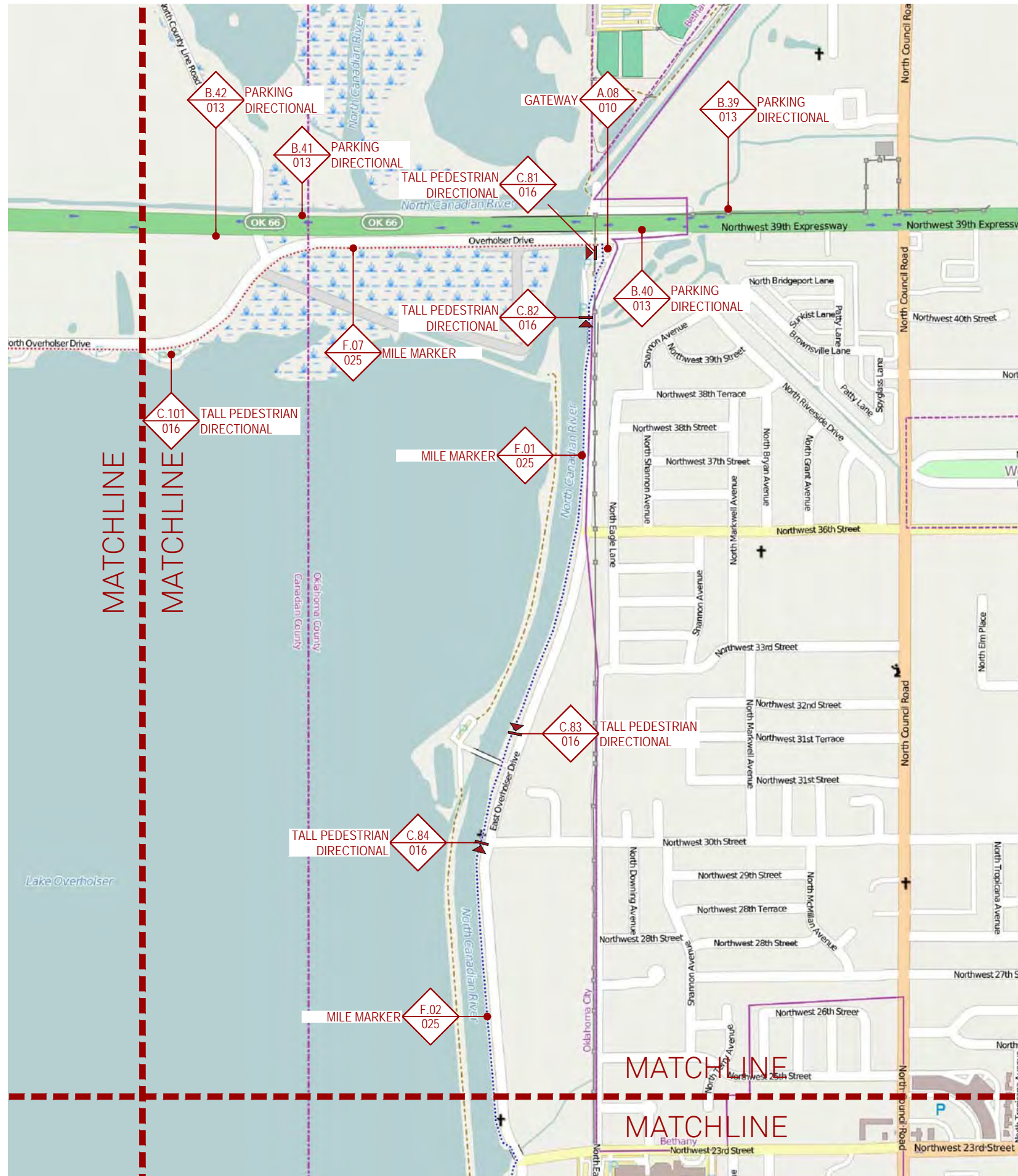
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Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
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Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC

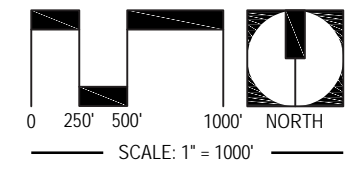
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ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	3
B	PARKING DIRECTIONAL SIGN	12
C	TALL PEDESTRIAN DIRECTIONAL SIGN	21
E	INTERPRETIVE SIGN	2
F	MILE MARKER	7



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
 LAKE OVERHOLSER TRAIL - NORTHEAST

Original Issue Date: 03.06.15

Revision:

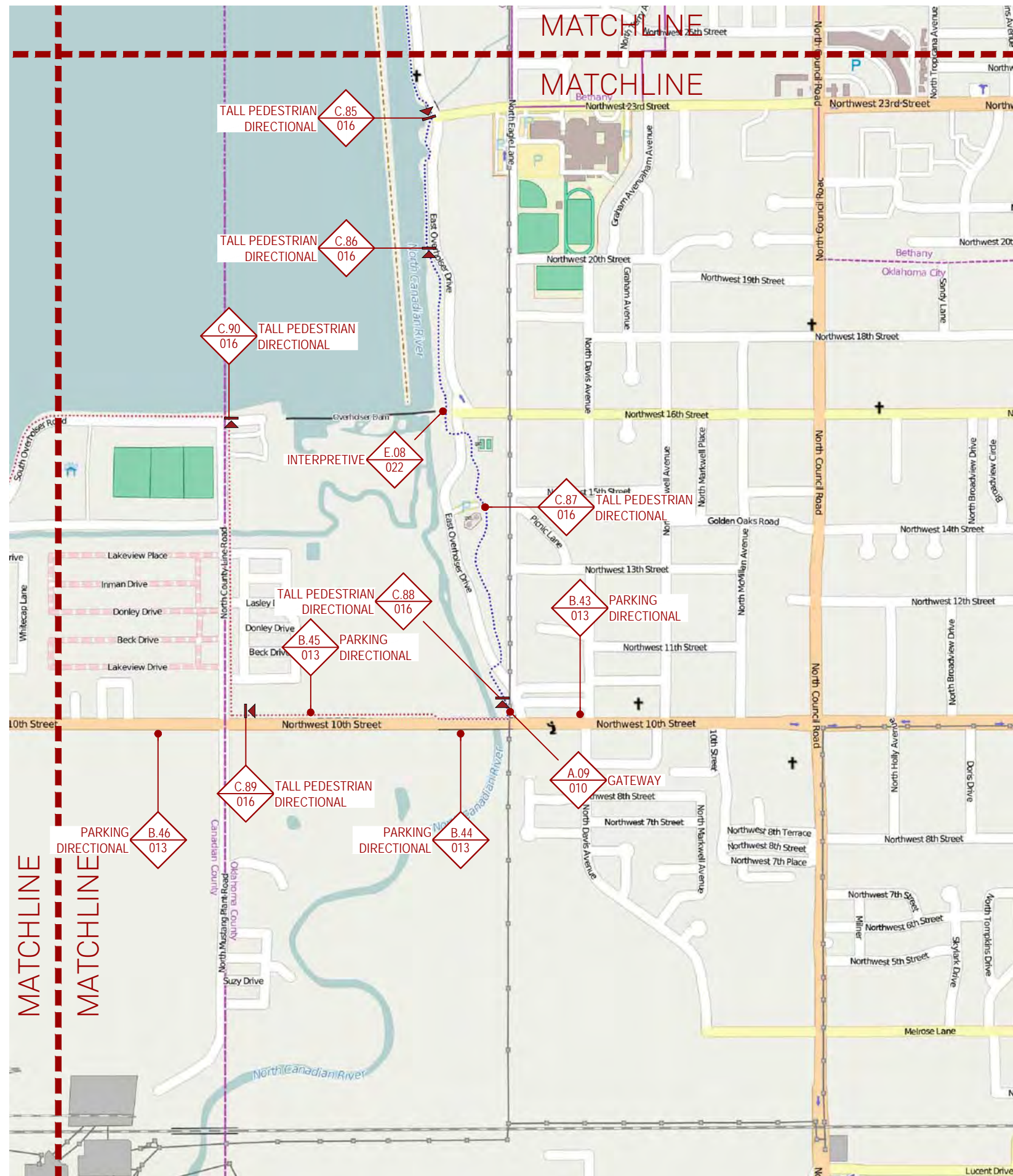
Signature/Seal:  
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Project Team: SPC  
 AEO  
 NLC  
 KMN  
 Drawn by: NLC

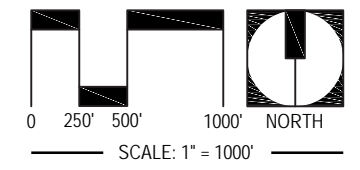
SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	3
B	PARKING DIRECTIONAL SIGN	12
C	TALL PEDESTRIAN DIRECTIONAL SIGN	21
E	INTERPRETIVE SIGN	2
F	MILE MARKER	7



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
LAKE OVERHOLSER  
TRAIL - SOUTHEAST

Original Issue Date: 03.06.15

Revision:

Signature/Seal:  
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Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC



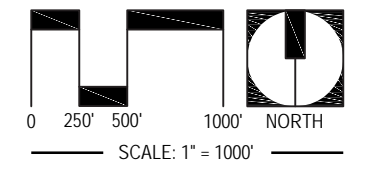
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A	GATEWAY SIGN	3
B	PARKING DIRECTIONAL SIGN	12
C	TALL PEDESTRIAN DIRECTIONAL SIGN	21
E	INTERPRETIVE SIGN	2
F	MILE MARKER	7



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
LAKE OVERHOLSER TRAIL - SOUTHWEST

Original Issue Date: 03.06.15

Revision:

Signature/Seal:  
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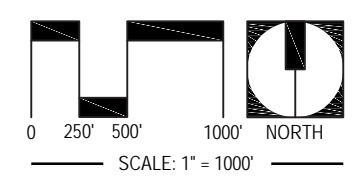
Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC

Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
LAKE OVERHOLSER  
TRAIL - NORTHWEST

Original Issue Date: 03.06.15

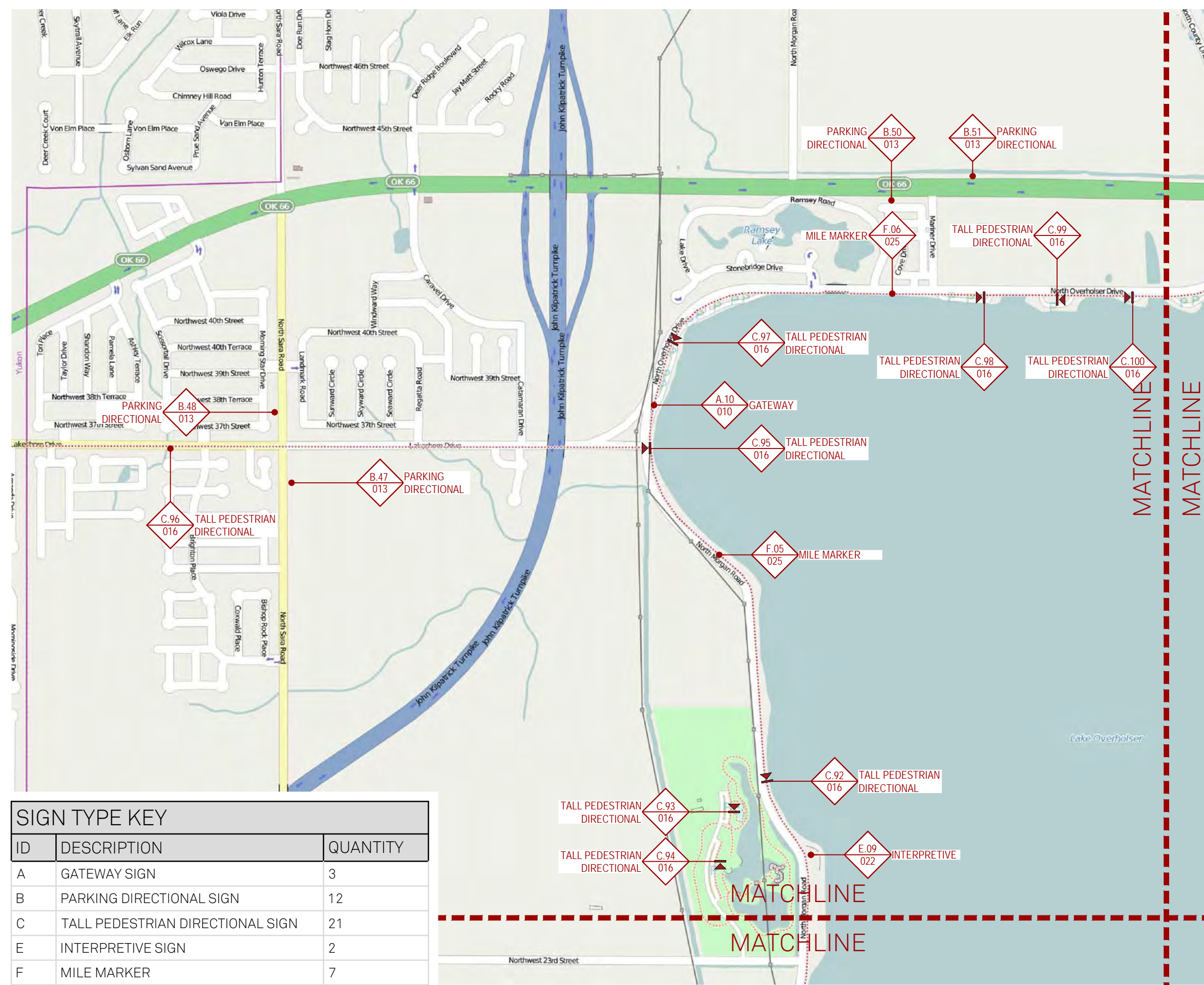
Revision:

Signature/Seal:  
**DRAFT**  
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Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC



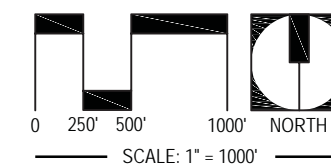
SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	3
B	PARKING DIRECTIONAL SIGN	12
C	TALL PEDESTRIAN DIRECTIONAL SIGN	21
E	INTERPRETIVE SIGN	2
F	MILE MARKER	7

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Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
LAKE STANLEY DRAPER TRAIL

Original Issue Date: 03.06.15

Revision:

Signature/Seal:

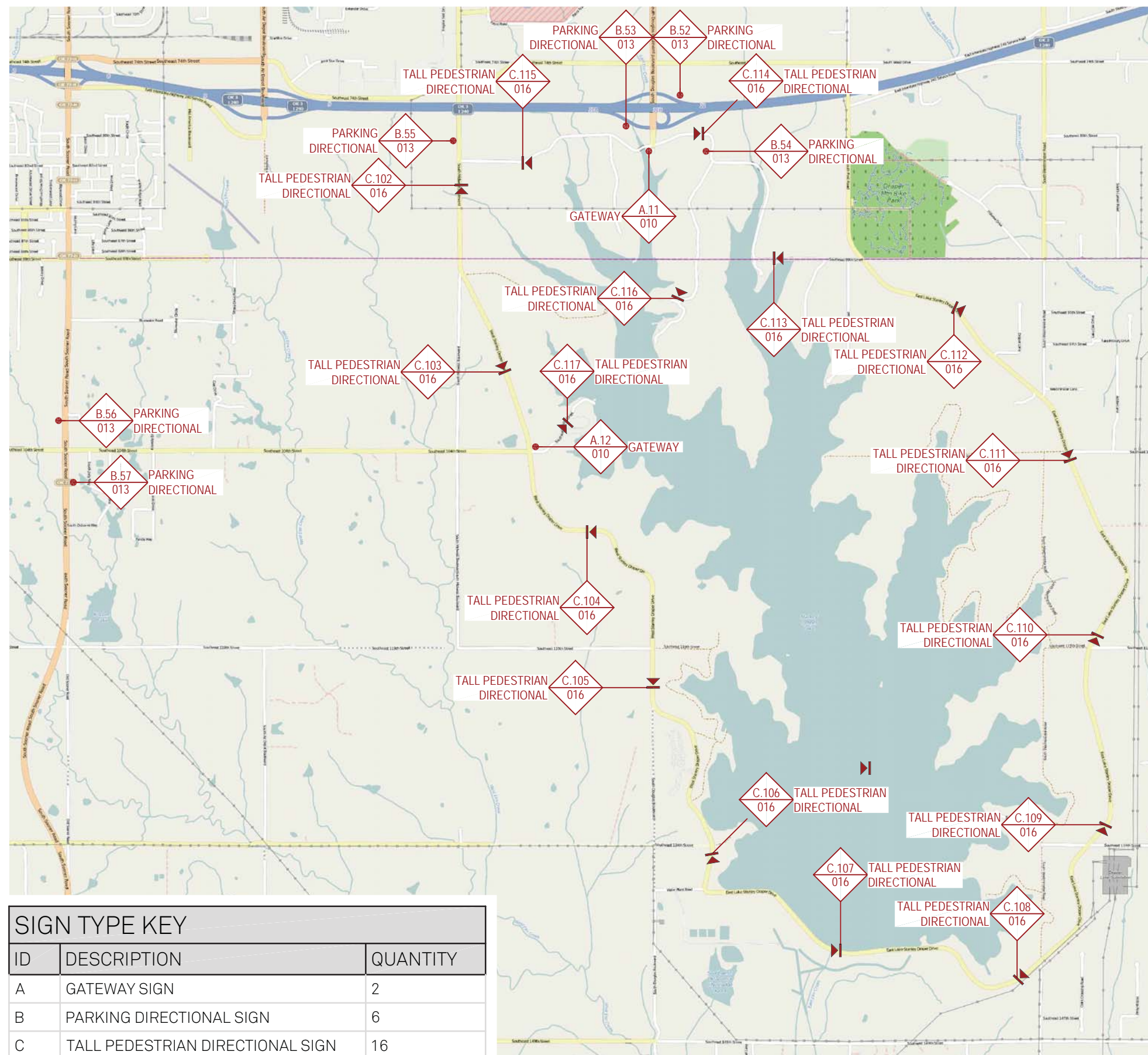
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Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC

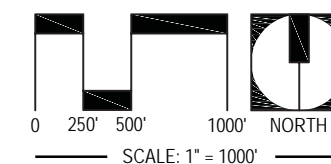


SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	6
C	TALL PEDESTRIAN DIRECTIONAL SIGN	16

Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
LIGHTNING CREEK TRAIL - 1 OF 3

Original Issue Date: 03.06.15

Revision:

Signature/Seal:

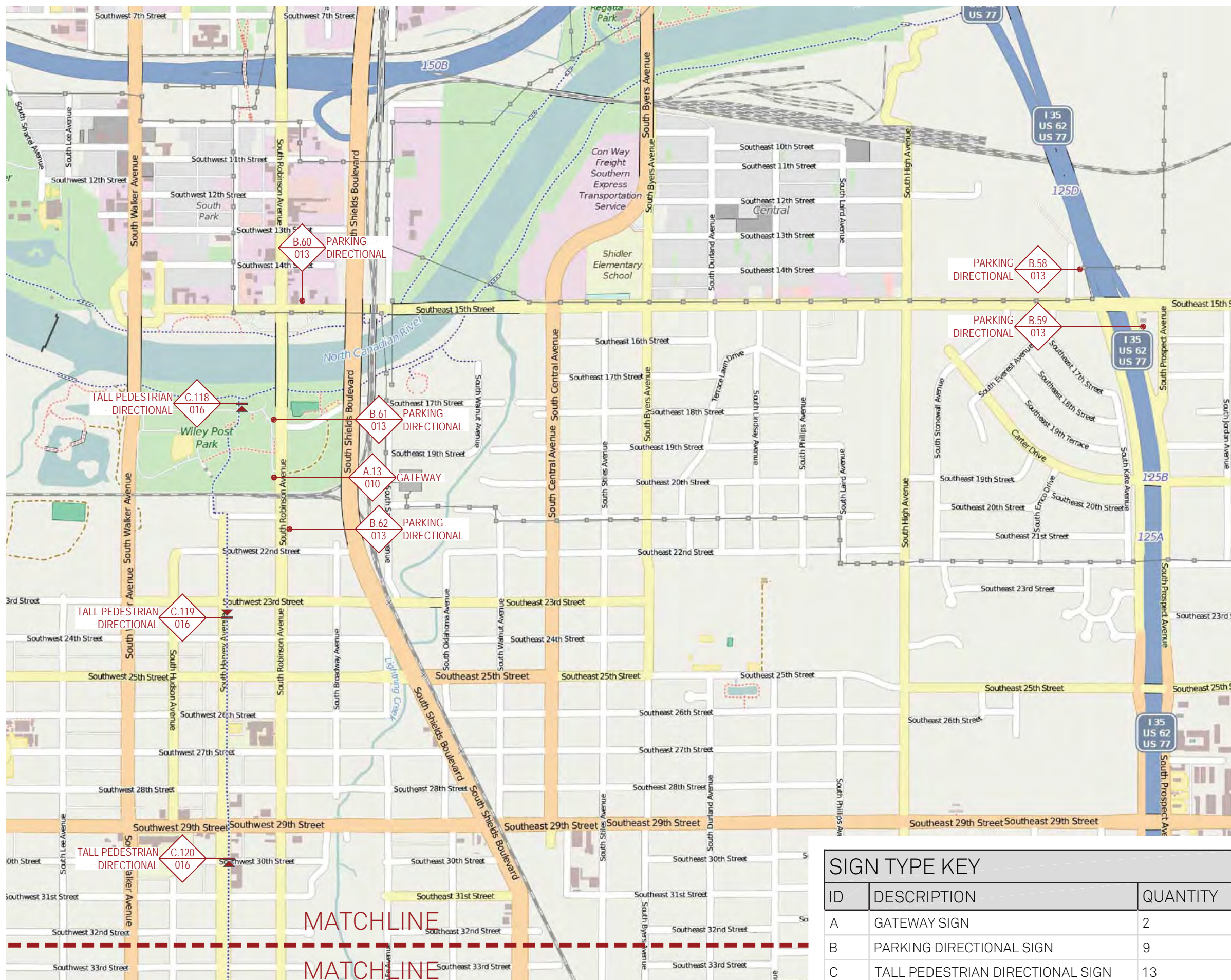
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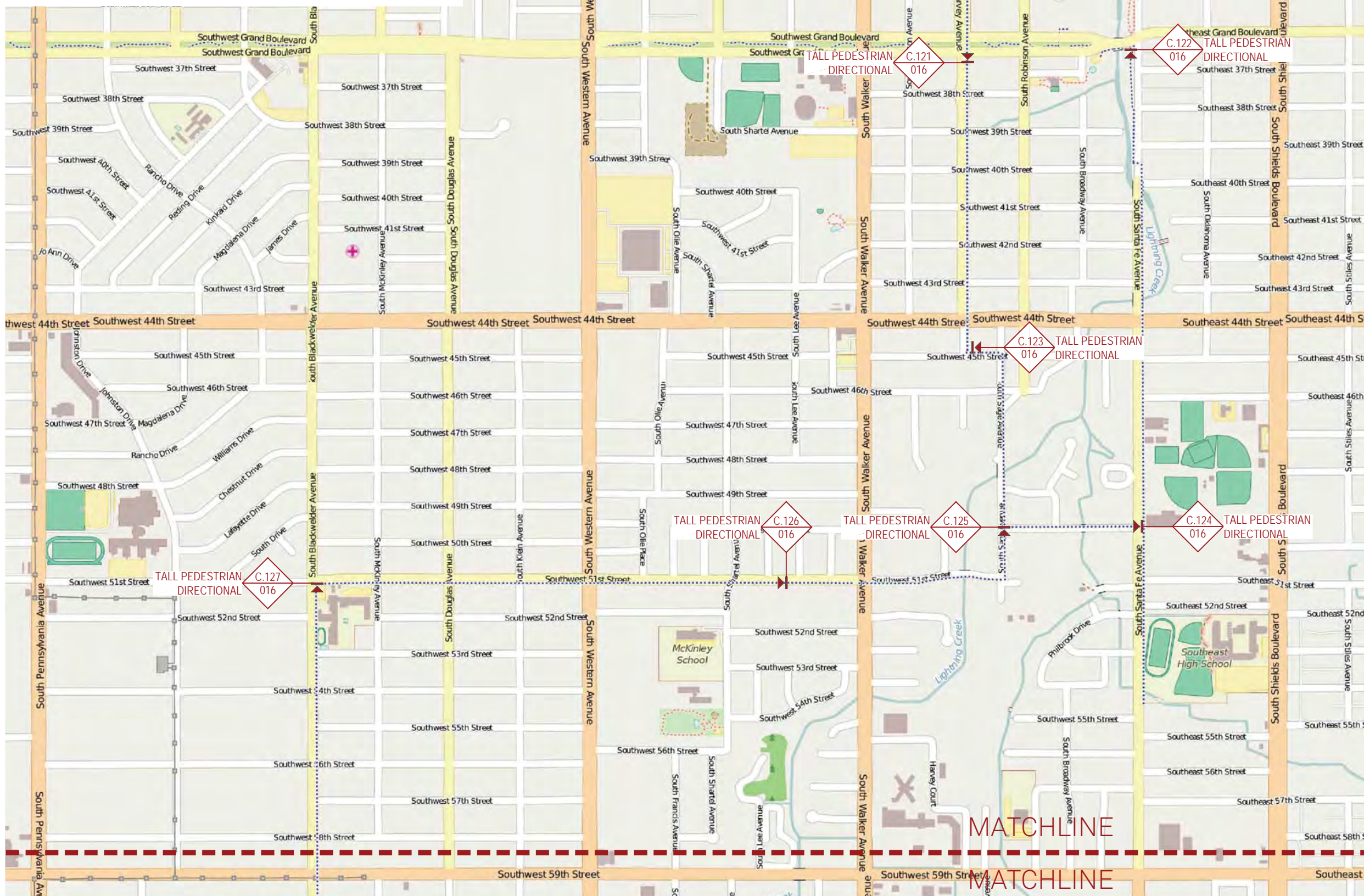
Contact: Cardinal Engineering, LLC  
1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC



SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	9
C	TALL PEDESTRIAN DIRECTIONAL SIGN	13

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
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C	TALL PEDESTRIAN DIRECTIONAL SIGN	13



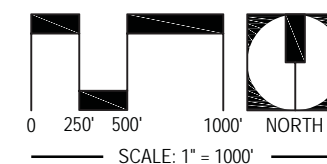
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Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
 LIGHTNING CREEK TRAIL - 2 OF 3

Original Issue Date: 03.06.15

Revision:

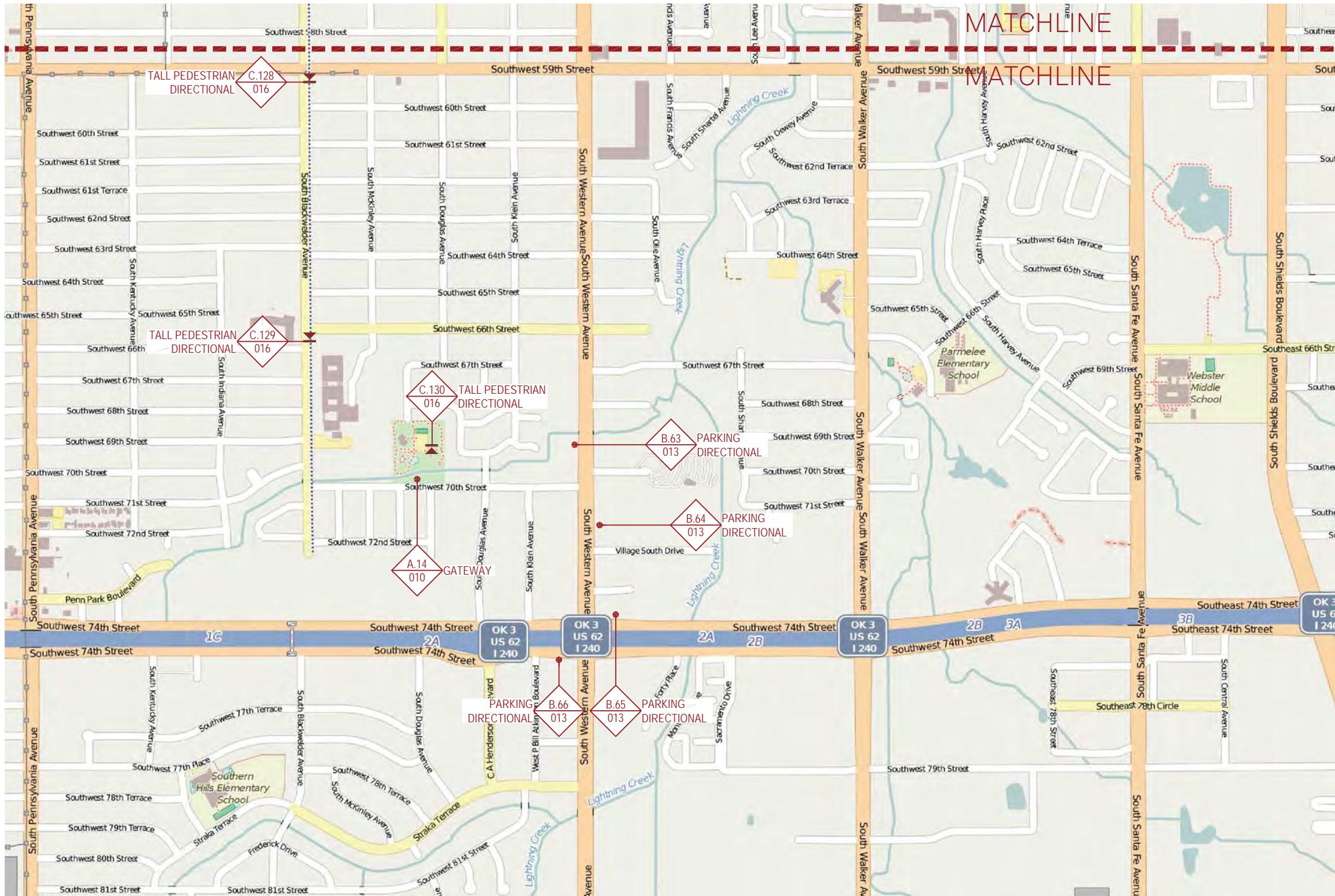
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 405.842.1066

Project Team: SPC  
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 NLC  
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 Drawn by: NLC



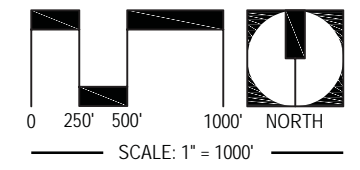
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MATCHLINE



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
LIGHTNING CREEK TRAIL - 3 OF 3

Original Issue Date: 03.06.15

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KMN  
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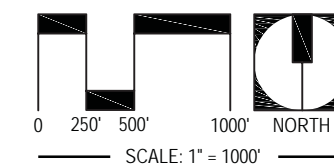
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A	GATEWAY SIGN	2
B	PARKING DIRECTIONAL SIGN	9
C	TALL PEDESTRIAN DIRECTIONAL SIGN	13

Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
NORTH GRAND BLVD  
TRAIL - 1 OF 2

Original Issue Date: 03.06.15

Revision:

Signature/Seal:

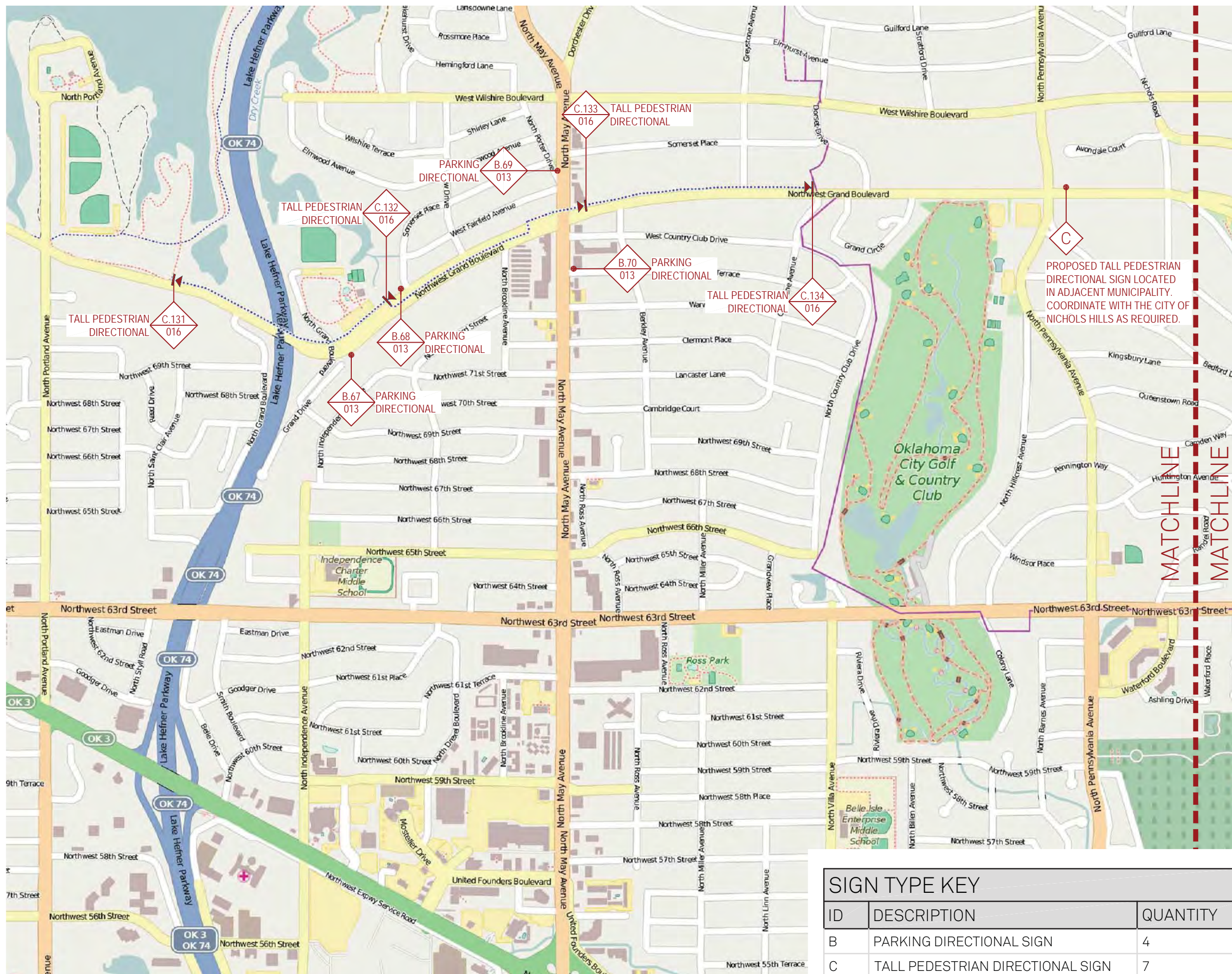
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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN  
Drawn by: NLC



SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
B	PARKING DIRECTIONAL SIGN	4
C	TALL PEDESTRIAN DIRECTIONAL SIGN	7

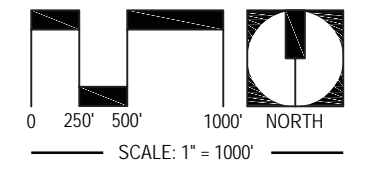
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C	TALL PEDESTRIAN DIRECTIONAL SIGN	7



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'  
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Description: DESIGN INTENT DOCUMENT  
 NORTH GRAND BLVD TRAIL - 2 OF 2

Original Issue Date: 03.06.15

Revision:

Signature/Seal:

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 NOT FOR CONSTRUCTION

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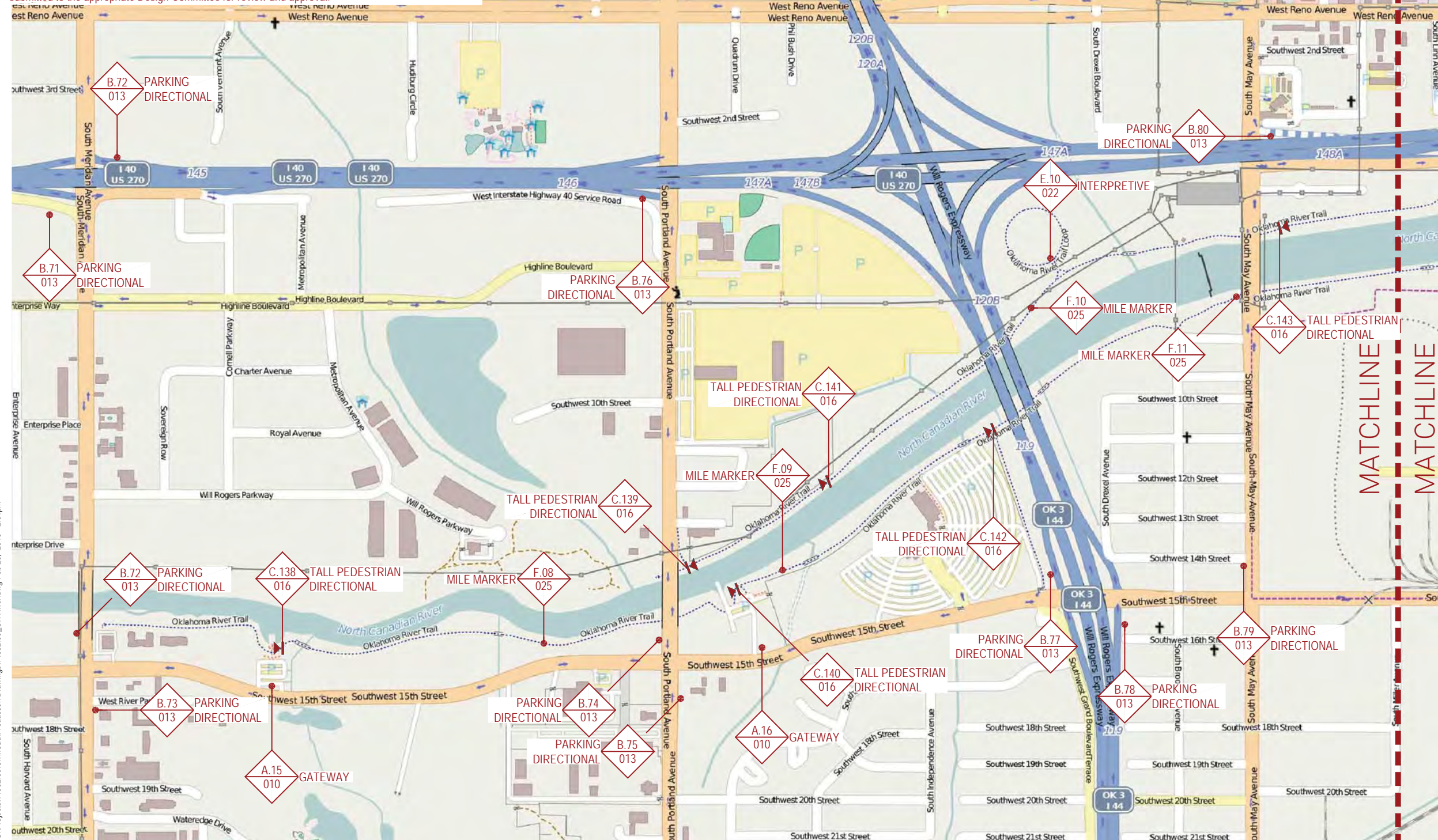
Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Project Team: SPC  
 AEO  
 NLC  
 KMN  
 Drawn by: NLC



SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	7
B	PARKING DIRECTIONAL SIGN	27
C	TALL PEDESTRIAN DIRECTIONAL SIGN	26
E	INTERPRETIVE SIGN	5
F	MILE MARKER	16

Note: The Oklahoma River Trails occur in the Scenic River Overlay Design District, Stockyards City Urban Design District & Stockyards City Transitional District. Proposed improvements will be required to be submitted to the appropriate Design Committee for review and approval.

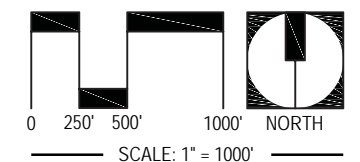


Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

Scale: 1" = 1000'

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Description: DESIGN INTENT DOCUMENT  
 OKLAHOMA RIVER TRAILS - 1 OF 3

Original Issue Date: 03.06.15

Revision:

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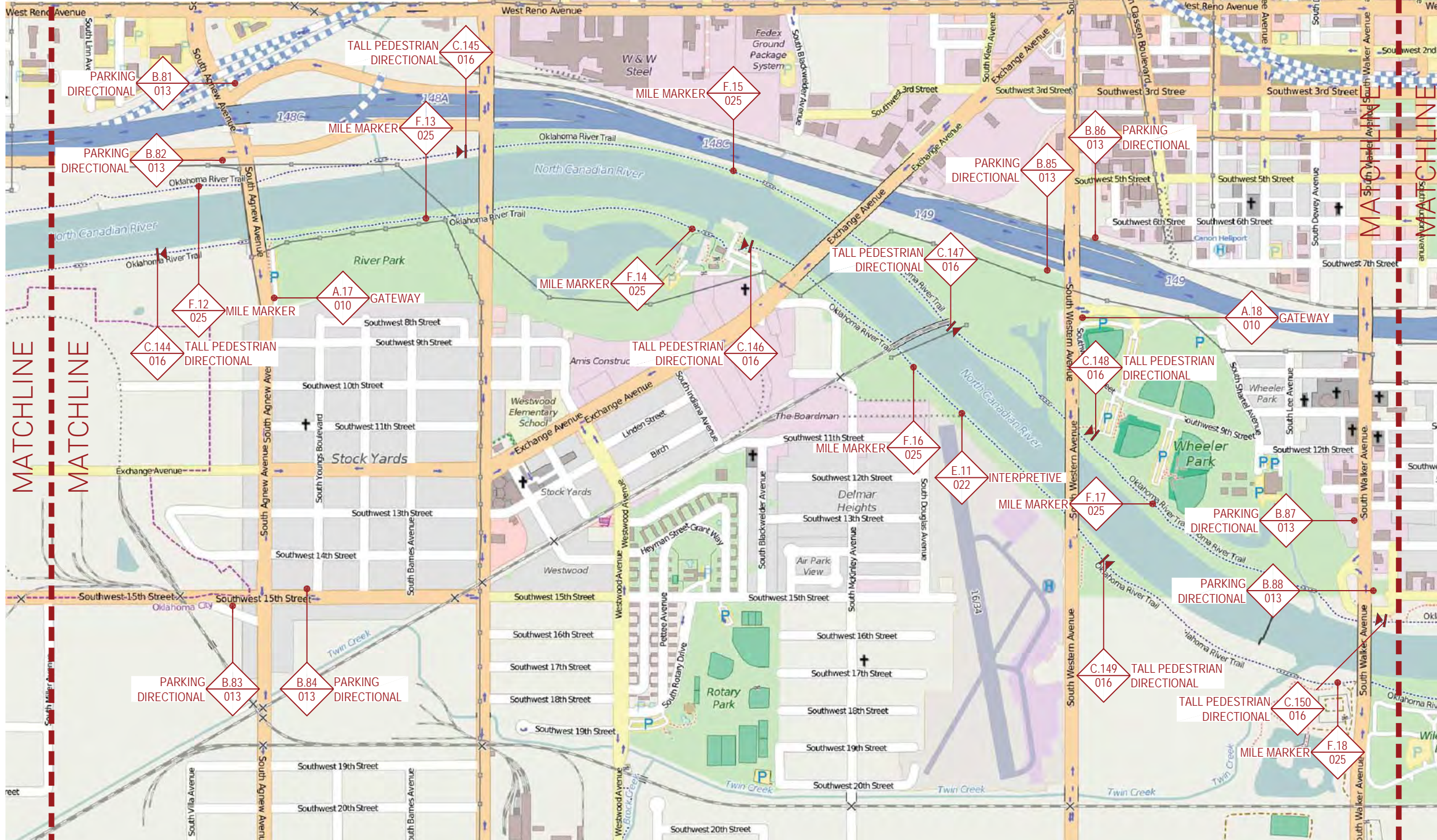
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Contact: Cardinal Engineering, LLC  
 1015 N. Broadway Ave.  
 Suite 300  
 Oklahoma City, OK 73102  
 405.842.1066

Project Team: SPC  
 AEO  
 NLC  
 KMN  
 Drawn by: NLC

SIGN TYPE KEY		
ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	7
B	PARKING DIRECTIONAL SIGN	27
C	TALL PEDESTRIAN DIRECTIONAL SIGN	26
E	INTERPRETIVE SIGN	5
F	MILE MARKER	16

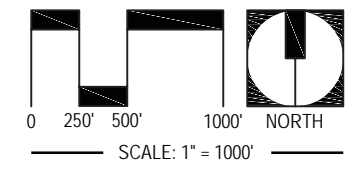
Note: The Oklahoma River Trails occur in the Scenic River Overlay Design District, Stockyards City Urban Design District & Stockyards City Transitional District. Proposed improvements will be required to be submitted to the appropriate Design Committee for review and approval.



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
 City of Oklahoma City  
 Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
 OKLAHOMA RIVER TRAILS - 2 OF 3

Original Issue Date: 03.06.15

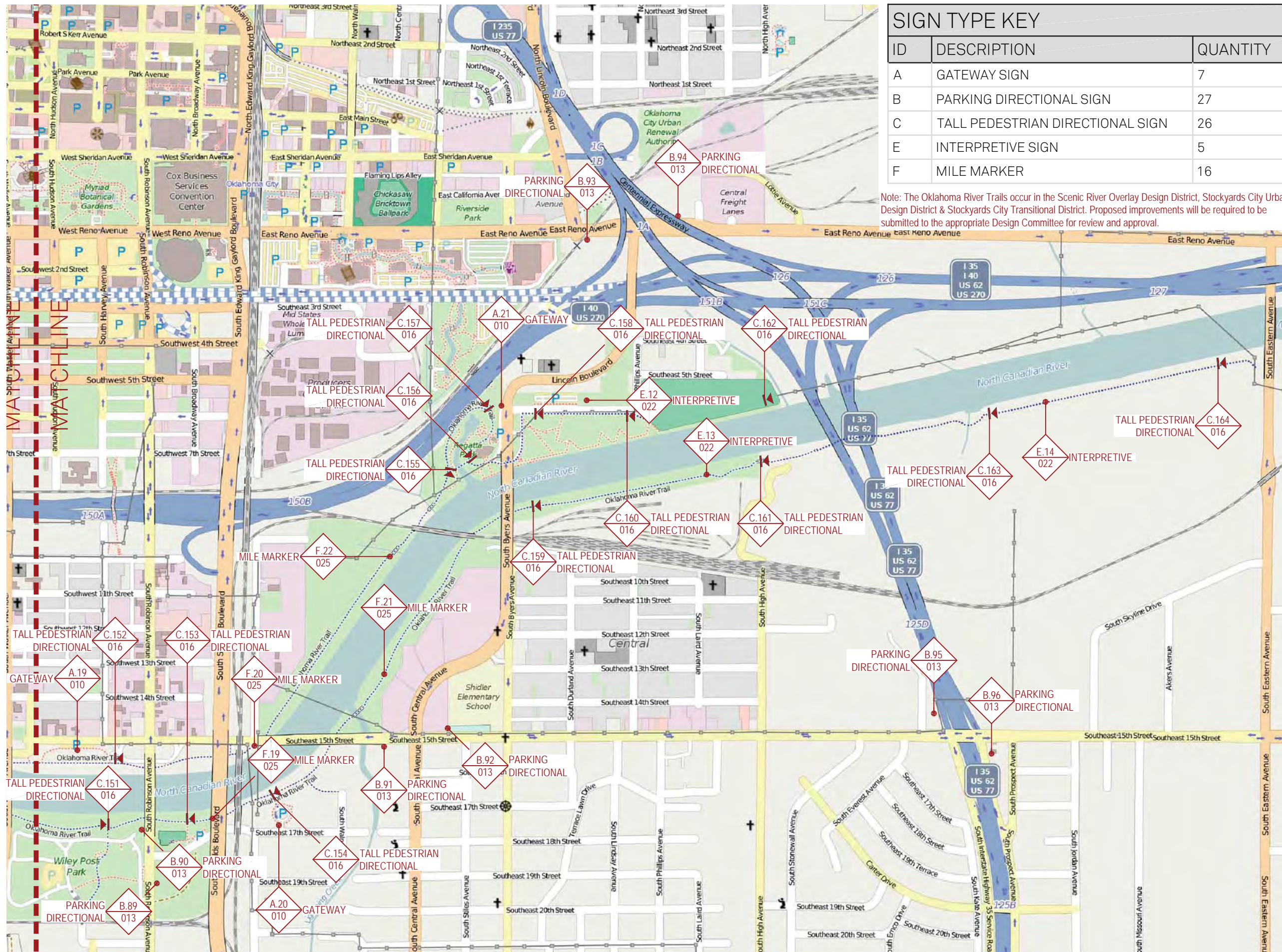
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E	INTERPRETIVE SIGN	5
F	MILE MARKER	16

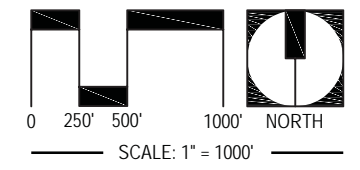
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Project No: 14052.00 / 60317842  
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 OKLAHOMA RIVER TRAILS - 3 OF 3

Original Issue Date: 03.06.15

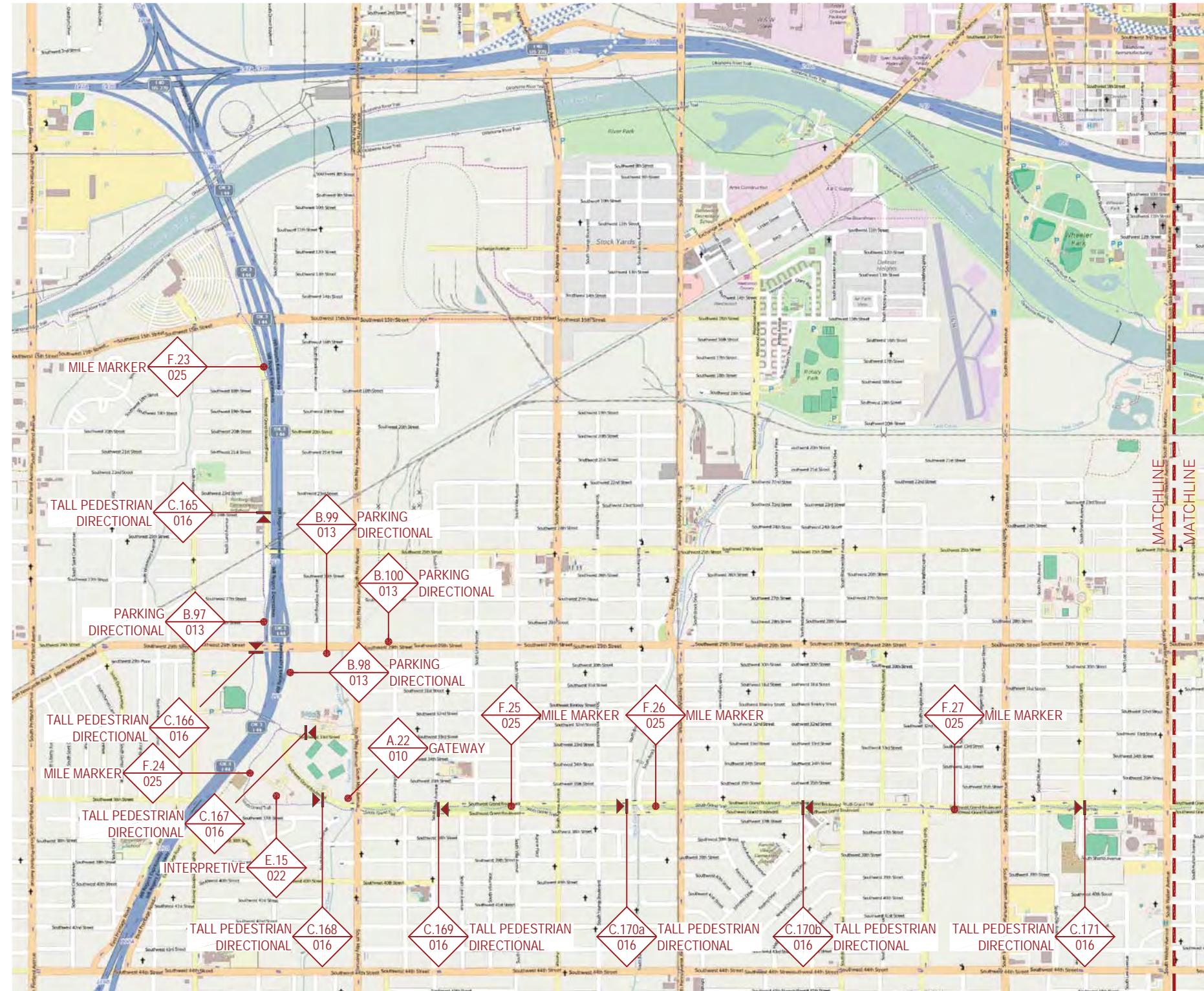
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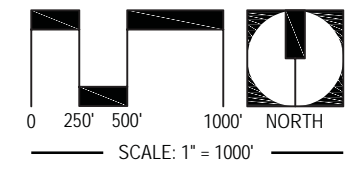
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ID	DESCRIPTION	QUANTITY
A	GATEWAY SIGN	3
B	PARKING DIRECTIONAL SIGN	11
C	TALL PEDESTRIAN DIRECTIONAL SIGN	17
E	INTERPRETIVE SIGN	4
F	MILE MARKER	11



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
SOUTH GRAND BLVD TRAIL - 1 OF 2

Original Issue Date: 03.06.15

Revision:

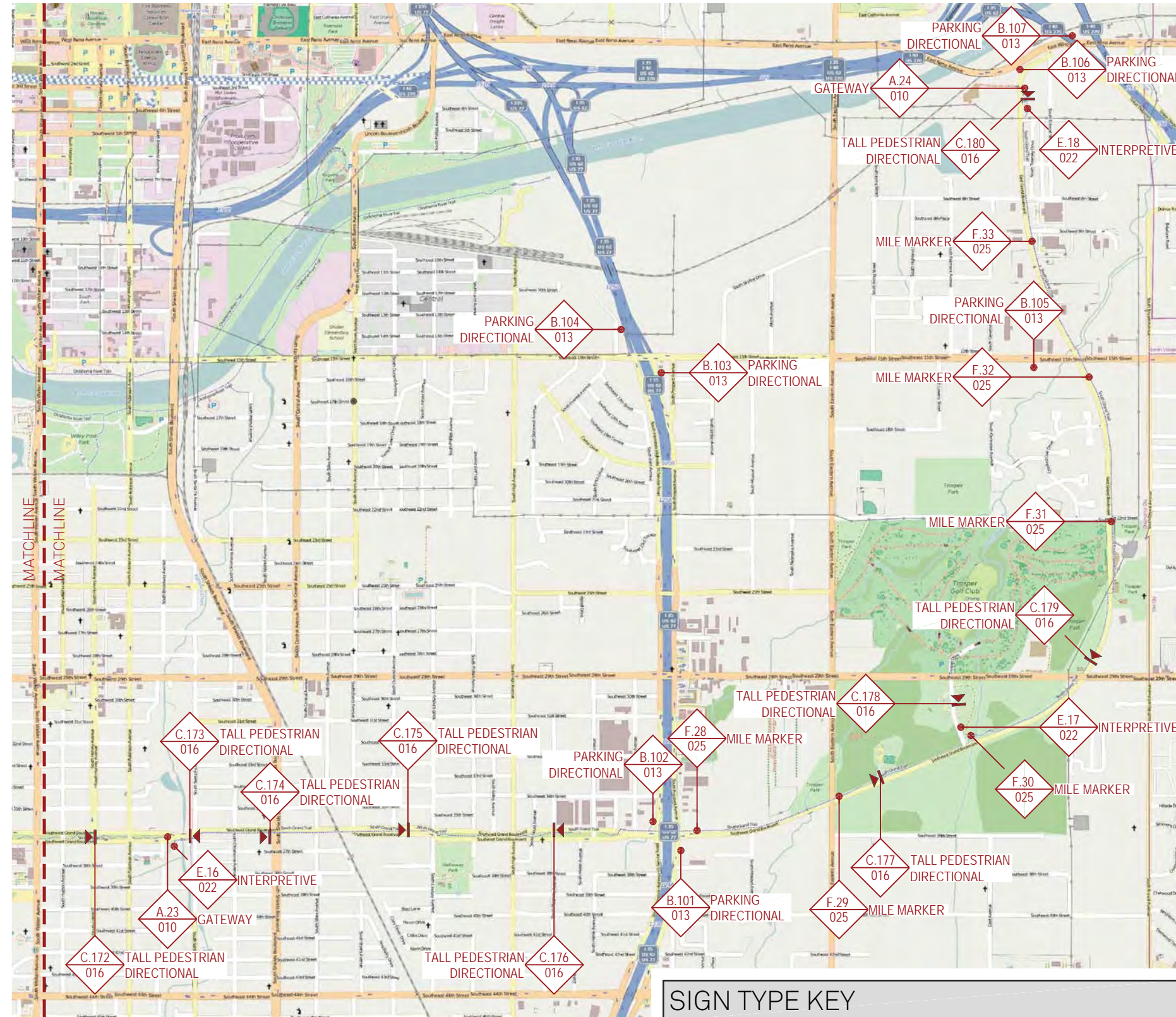
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Project Team: SPC  
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NLC  
KMN  
Drawn by: NLC



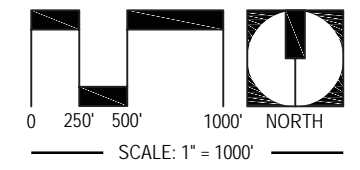
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Wayfinding Master Plan for  
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Project No: 14052.00 / 60317842  
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Description: DESIGN INTENT DOCUMENT  
SOUTH GRAND BLVD  
TRAIL - 2 OF 2

Original Issue Date: 03.06.15

Revision:

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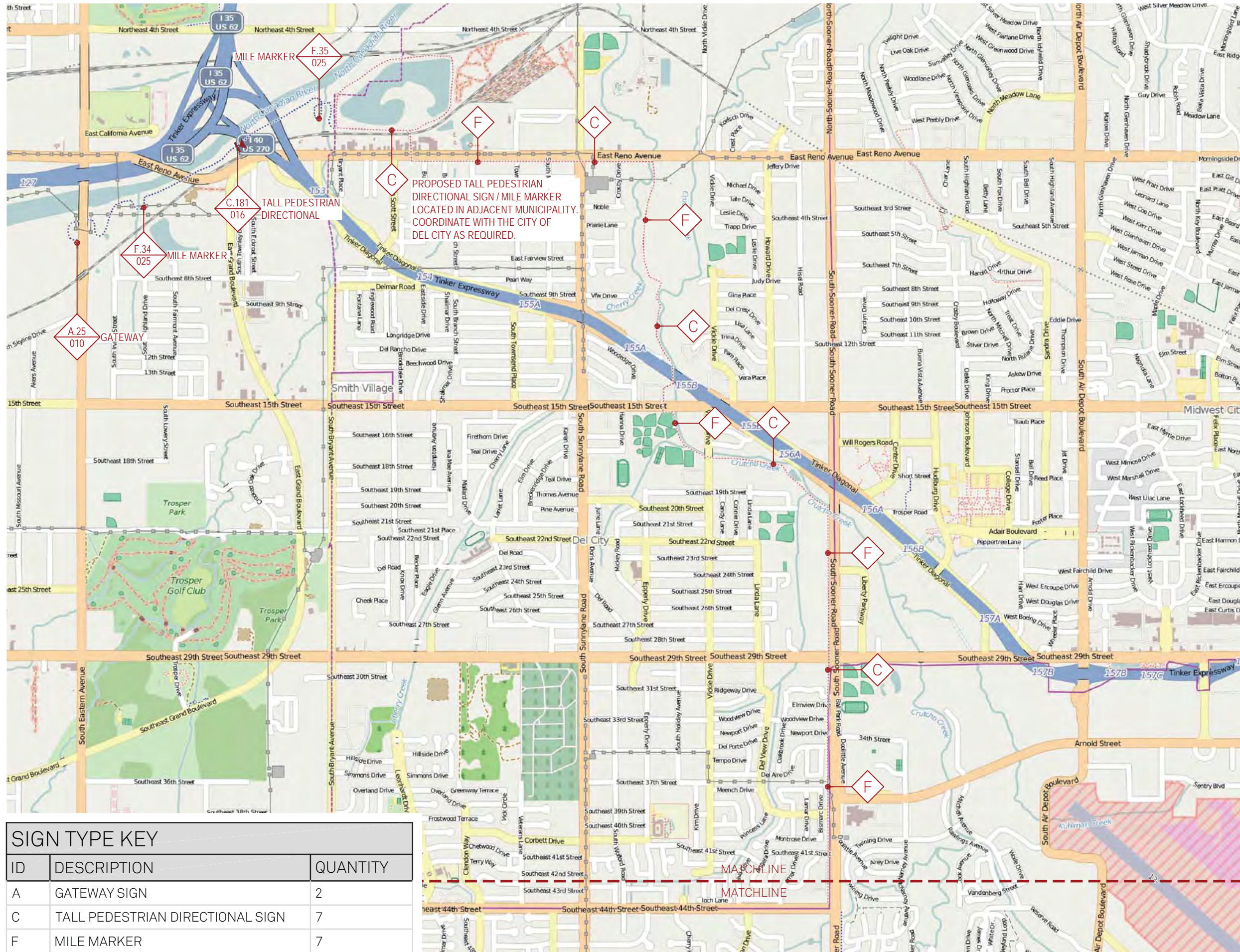
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KMN  
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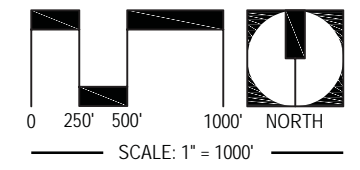
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C	TALL PEDESTRIAN DIRECTIONAL SIGN	7
F	MILE MARKER	7



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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 City of Oklahoma City  
 Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
 TINKER-DRAPER TRAIL  
 1 OF 2

Original Issue Date: 03.06.15

Revision:

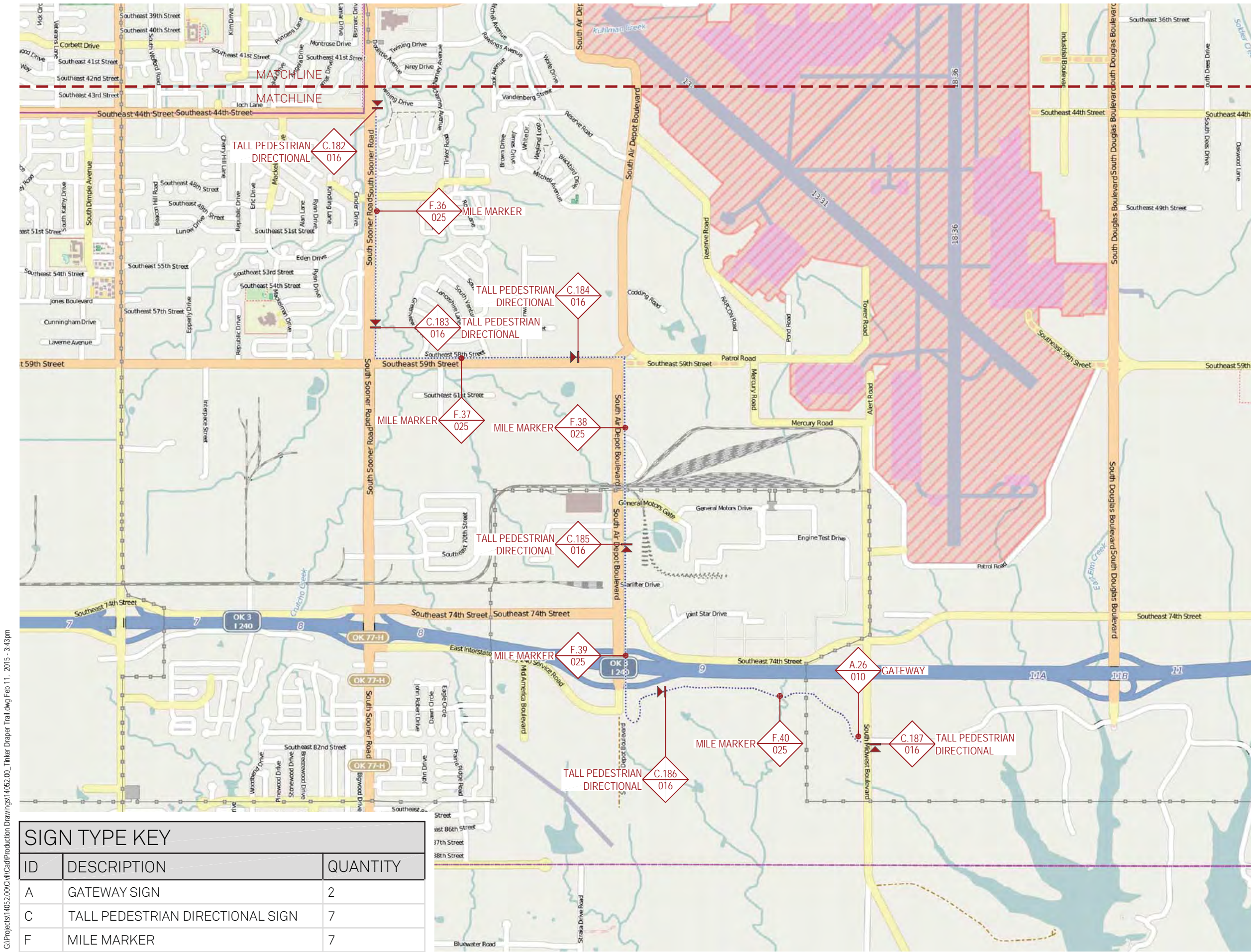
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 405.842.1066

Project Team: SPC  
 AEO  
 NLC  
 KMN  
 Drawn by: NLC

G:\Projects\14052.00\Civil\Cad\Production Drawings\14052.00\_Tinker Draper Trail.dwg Feb 11, 2015 - 3:43pm



G:\Projects\14052.00\Civil\Production Drawings\14052.00\_Tinker Draper Trail.dwg Feb 11, 2015 - 3:43pm

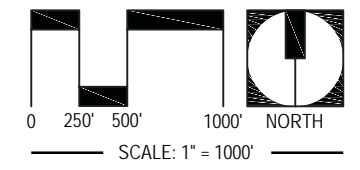
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F	MILE MARKER	7



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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 City of Oklahoma City  
 Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
 TINKER-DRAPER TRAIL  
 2 OF 2

Original Issue Date: 03.06.15

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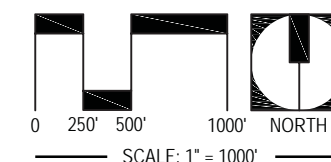
Contact: Cardinal Engineering, LLC  
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Project Team: SPC  
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 NLC  
 KMN  
 Drawn by: NLC

Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
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Parks and Recreation Dept.

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Description: DESIGN INTENT DOCUMENT  
WEST RIVER TRAIL

Original Issue Date: 03.06.15

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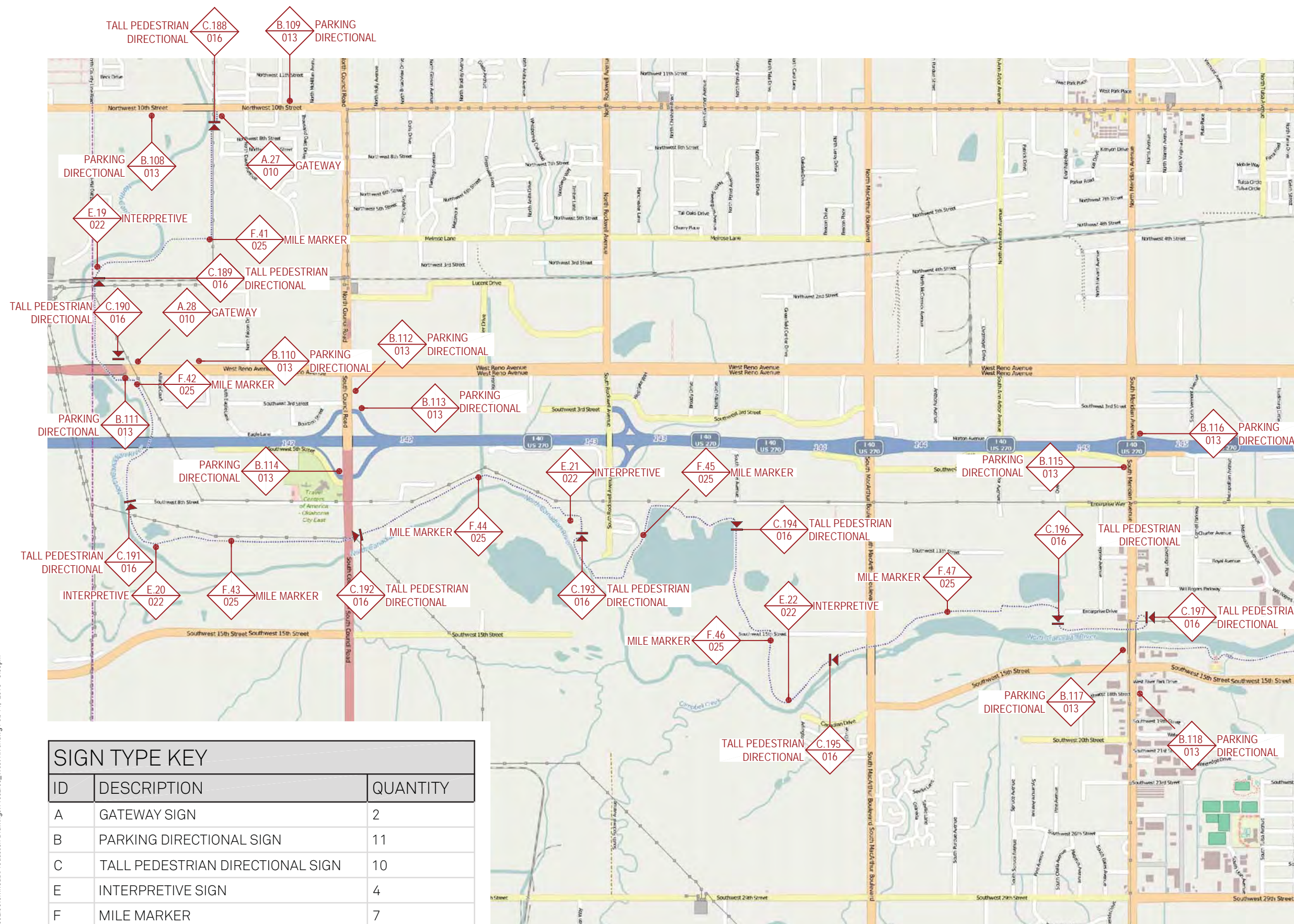
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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: NLC



**SIGN TYPE KEY**

ID	DESCRIPTION	QUANTITY
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B	PARKING DIRECTIONAL SIGN	11
C	TALL PEDESTRIAN DIRECTIONAL SIGN	10
E	INTERPRETIVE SIGN	4
F	MILE MARKER	7



**B** Parking Directional - Messages

Scale: 1" = 1'

**B.01-013**



**B.02-013**



**B.03-013**



**B.04-013**



**B.05-013**



**B.06-013**



**B.07-013**



**B.08-013**



**B.09-013**



**B.10-013**



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

B.11-013



B.12-013



B.13-013



B.14-013



B.15-013



B.16-013



B.17-013



B.18-013



B.19-013



B.20-013



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

**B** Parking Directional - Messages

Scale: 1" = 1'

**B.21-013**



**B.22-013**



**B.23-013**



**B.24-013**



**B.25-013**



**B.26-013**



**B.27-013**



**B.28-013**



**B.29-013**



**B.30-013**



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

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KMN

Drawn by: AEO

**B.31-013**



**B.32-013**



**B.33-013**



**B.34-013**



**B.35-013**



**B.36-013**



**B.37-013**



**B.38-013**



**B.39-013**



**B.40-013**



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

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AEO  
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KMN

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B.41-013



B.42-013



B.43-013



B.44-013



B.45-013



B.46-013



B.47-013



B.48-013



B.49-013



B.50-013



Wayfinding Master Plan for  
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Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

**B.51-013**



**B.52-013**



**B.53-013**



**B.54-013**



**B.55-013**



**B.56-013**



**B.57-013**



**B.58-013**



**B.59-013**



**B.60-013**



Wayfinding Master Plan for  
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KMN

Drawn by: AEO

B.61-013



B.62-013



B.63-013



B.64-013



B.65-013



B.66-013



B.67-013



B.68-013



B.69-013



B.70-013



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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KMN

Drawn by: AEO

**B.71-013**



**B.72-013**



**B.73-013**



**B.74-013**



**B.75-013**



**B.76-013**



**B.77-013**



**B.78-013**



**B.79-013**



**B.80-013**



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

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KMN

Drawn by: AEO



**B.81-013**



**B.82-013**



**B.83-013**



**B.84-013**



**B.85-013**



**B.86-013**



**B.87-013**



**B.88-013**



**B.89-013**



**B.90-013**



Wayfinding Master Plan for  
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KMN

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**B.91-013**



**B.92-013**



**B.93-013**



**B.94-013**



**B.95-013**



**B.96-013**



**B.97-013**



**B.98-013**



**B.99-013**



**B.100-013**



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

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NLC  
KMN

Drawn by: AEO

B.101-013



B.102-013



B.103-013



B.104-013



B.105-013



B.106-013



B.107-013



B.108-013



B.109-013



B.110-013



Wayfinding Master Plan for  
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KMN

Drawn by: AEO

**B.111-013**



**B.112-013**



**B.113-013**



**B.114-013**



**B.115-013**



**B.116-013**



**B.117-013**



**B.118-013**



**B.119-013**



**B.120-013**



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NLC  
KMN

Drawn by: AEO

Back Side ◀ Front Side

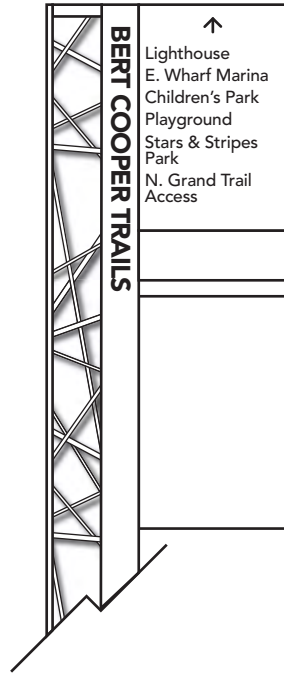
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

C

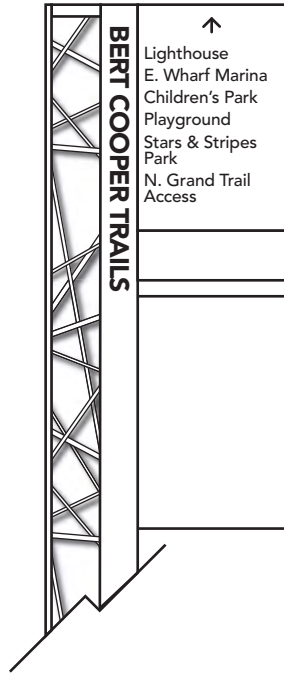
Tall Directional - Messages

Scale: 1/2" = 1'

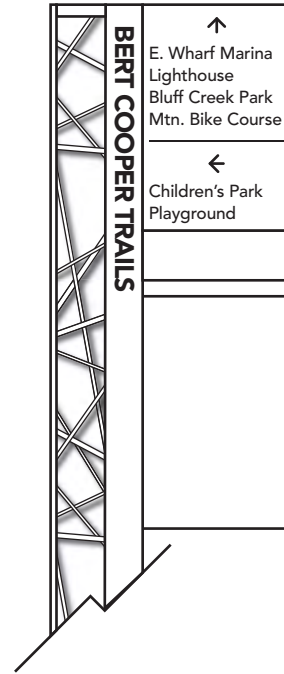
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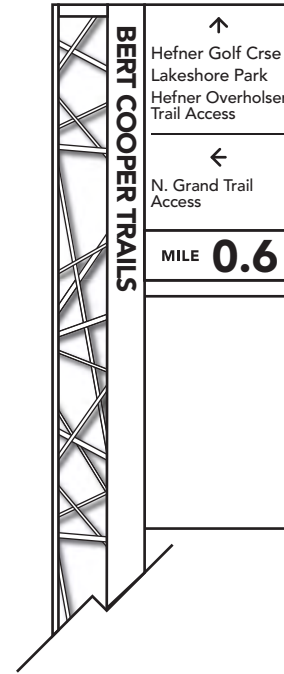
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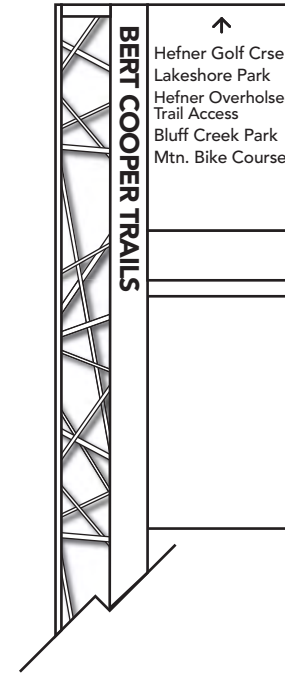
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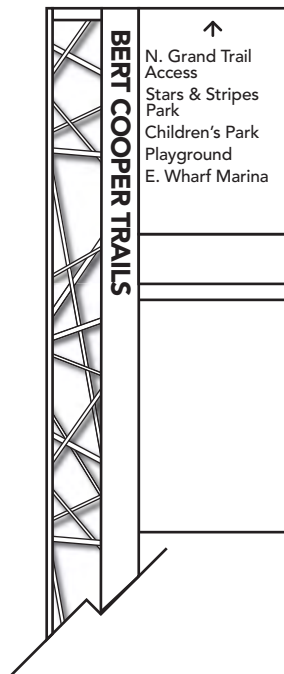
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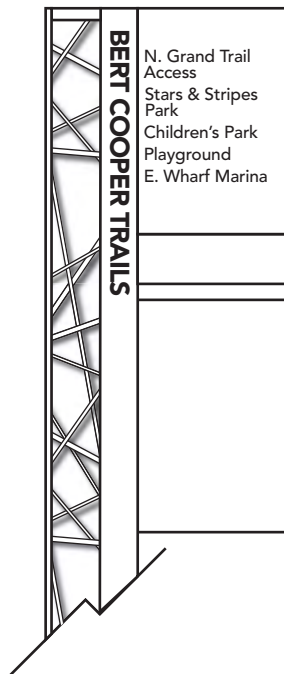
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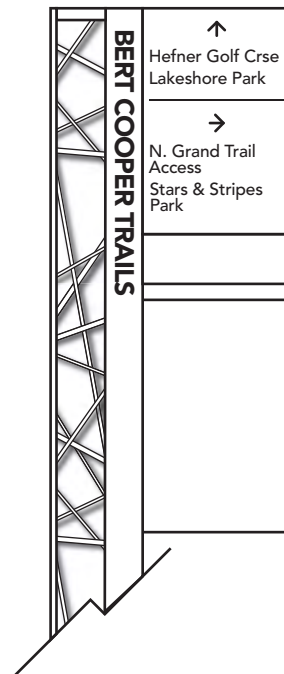
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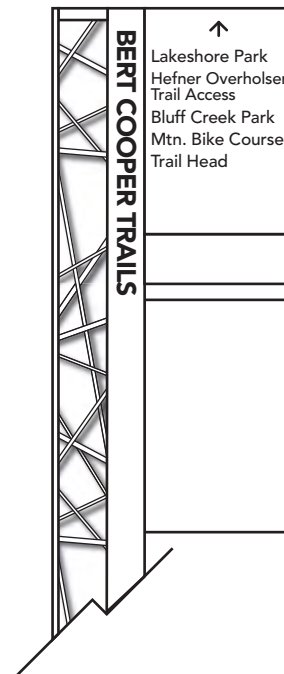
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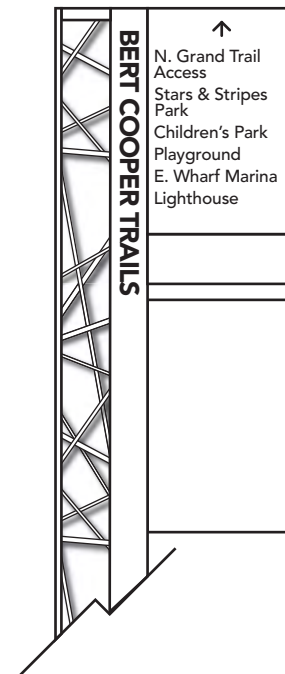
C.08-016



C.09-016



C.10-016



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1/2" = 1'

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Description: Design Intent Document

Original Issue Date: 03.06.15

Revision:

Signature/Seal:

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1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

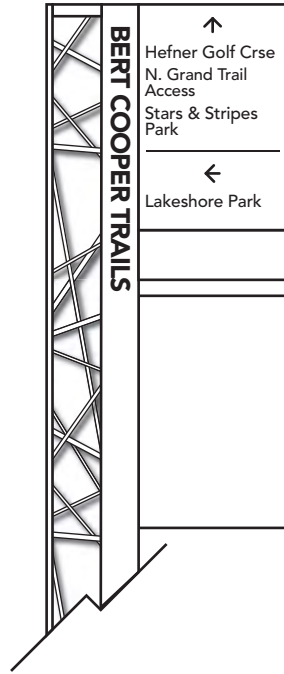
Drawn by: AEO

Back Side ◀ Front Side

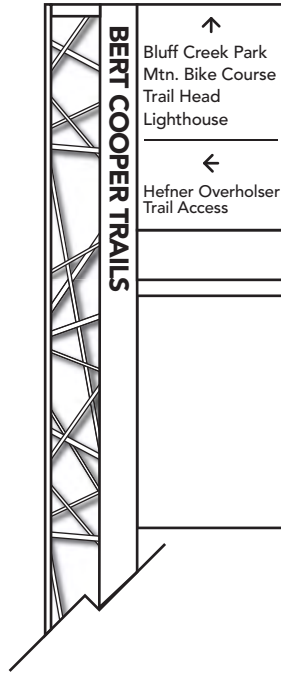
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

**C** Tall Directional - Messages  
Scale: 1/2" = 1'

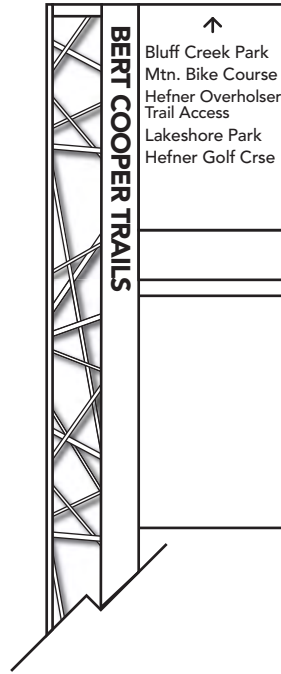
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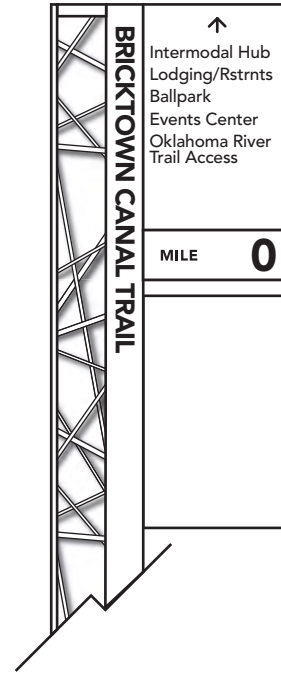
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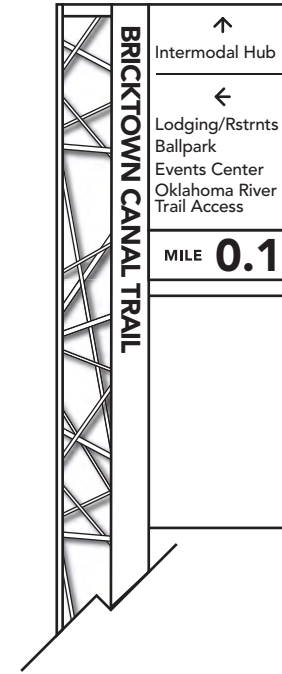
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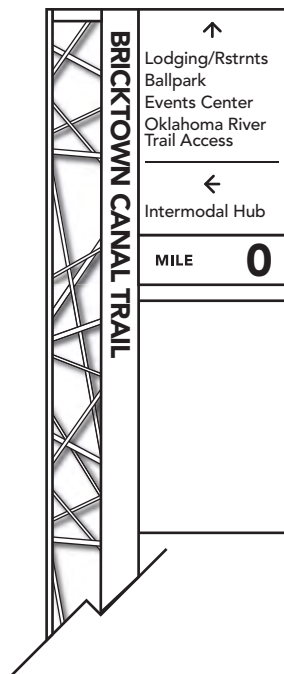
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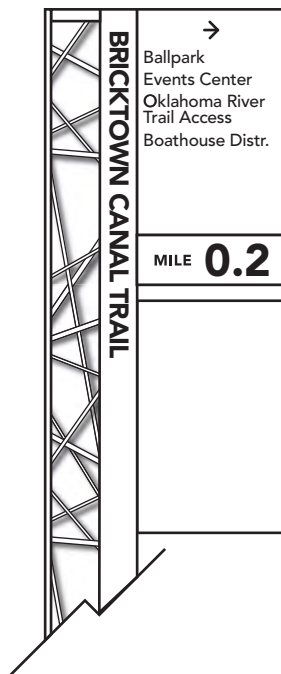
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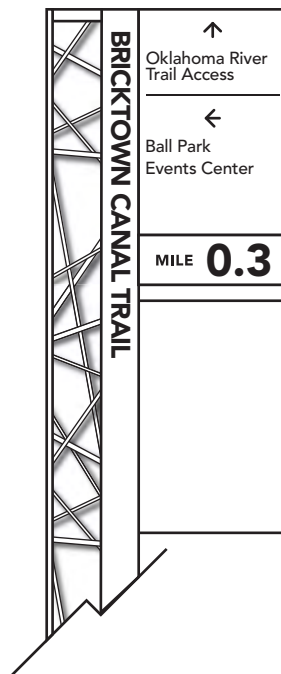
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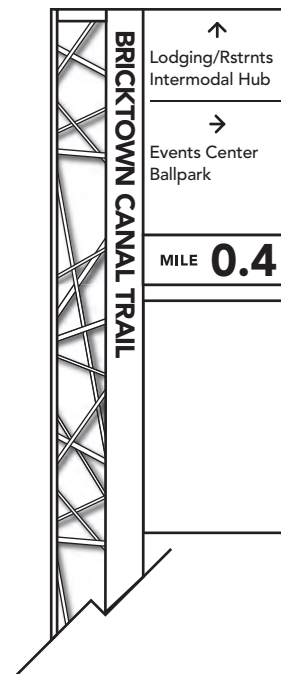
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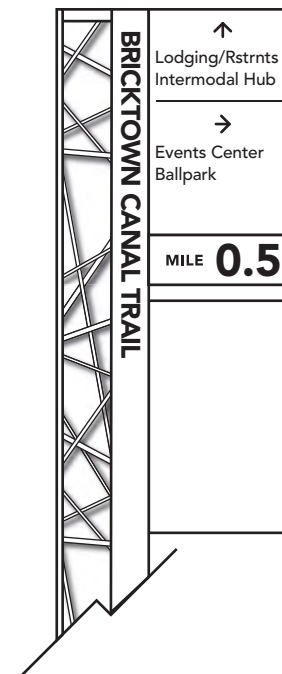
**C.18-016**





**C.19-016**



**C.20-016**



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

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Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

075

Back Side ◀ Front Side

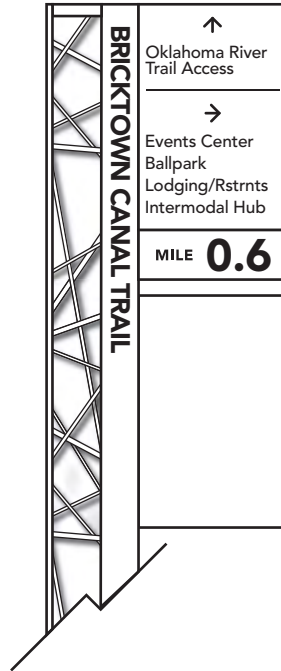
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

C

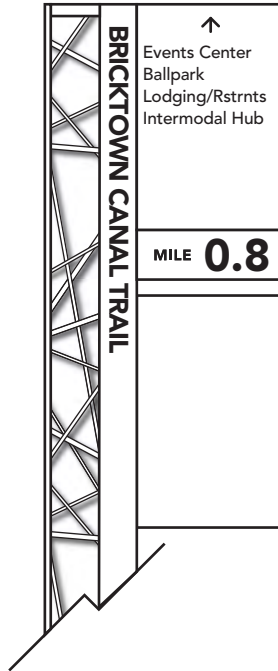
### Tall Directional - Messages

Scale: 1/2" = 1'

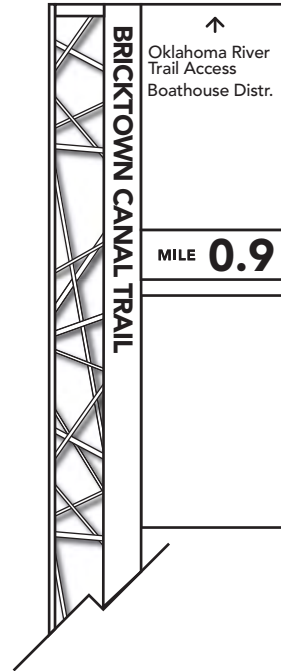
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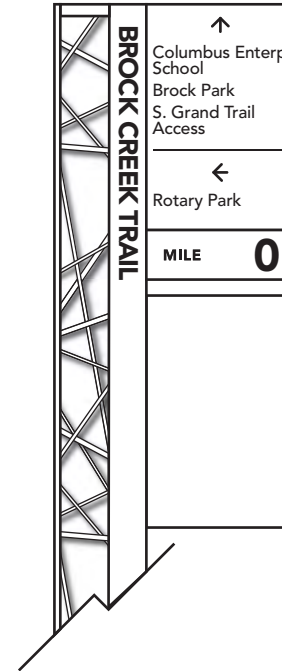
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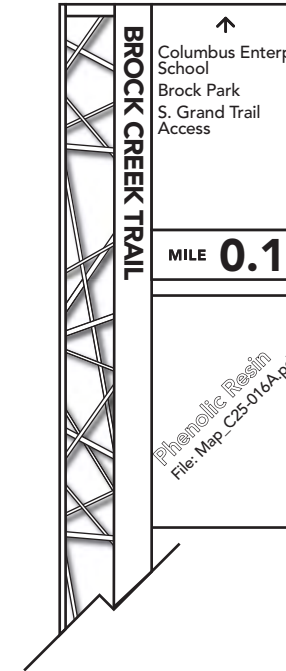
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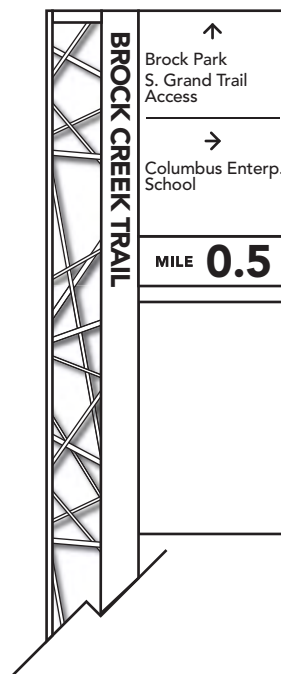
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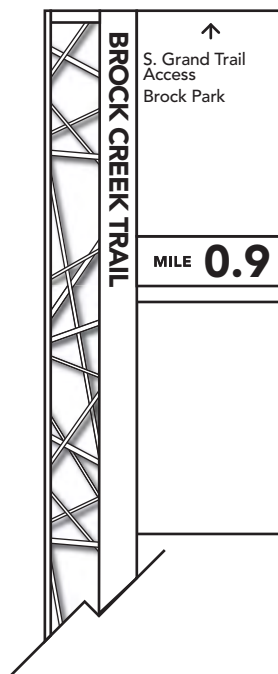
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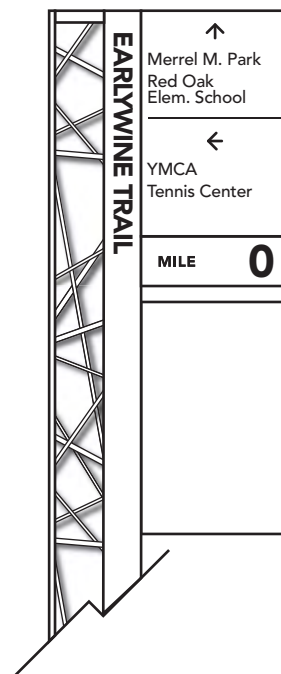
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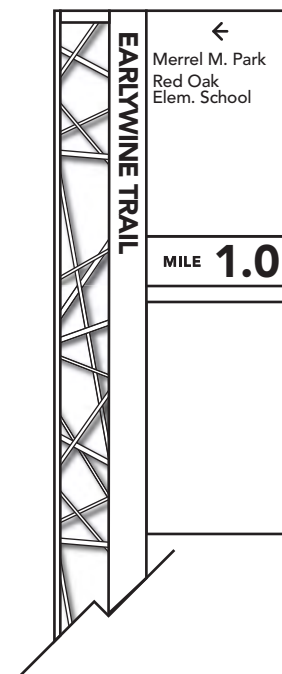
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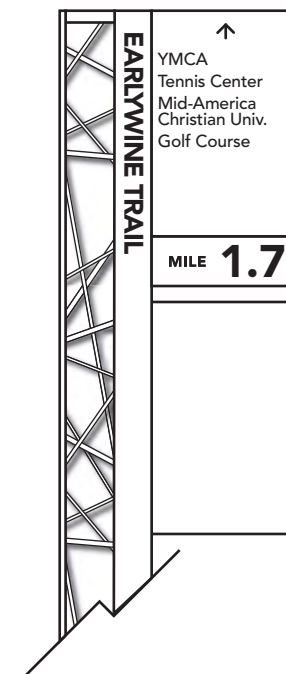
**C.28-016**



**C.29-016**



**C.30-016**



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

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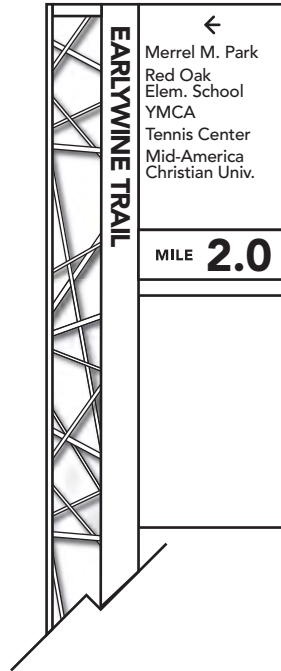
Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

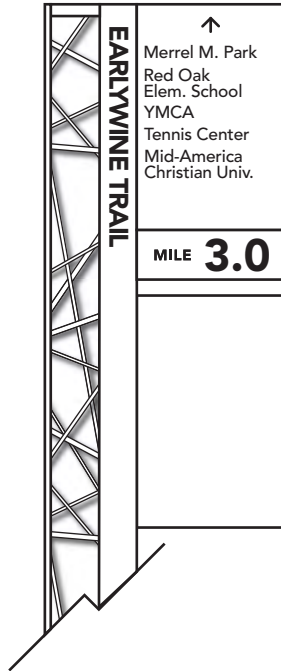
Back Side ◀ Front Side

See Design Detail on pages 16-18 for Back Side Graphics (same graphics for all locations)

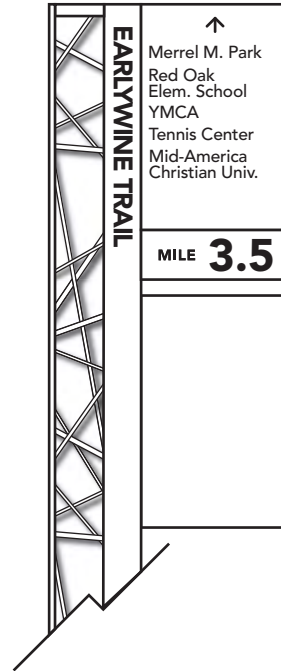
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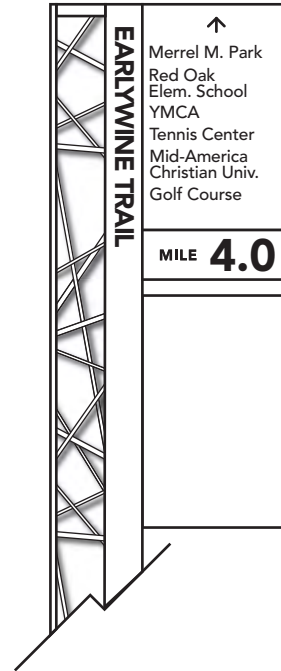
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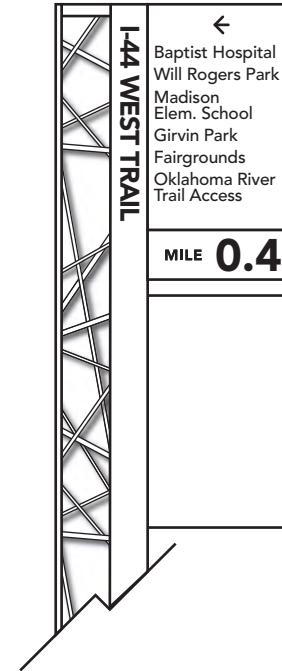
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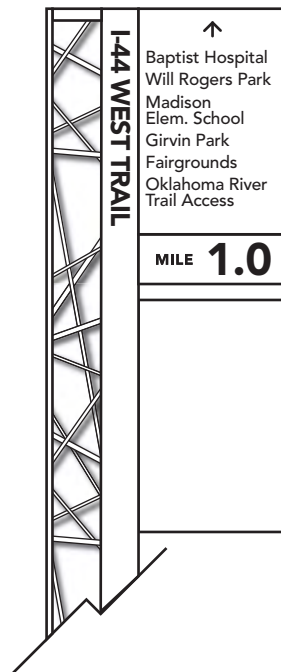
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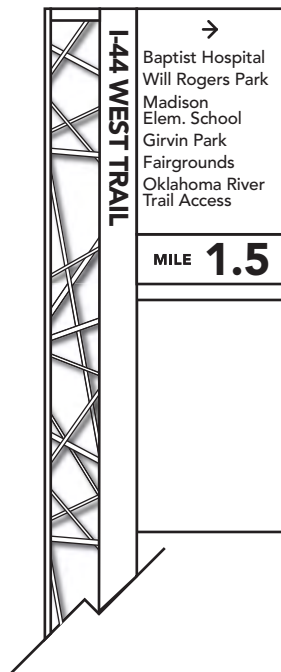
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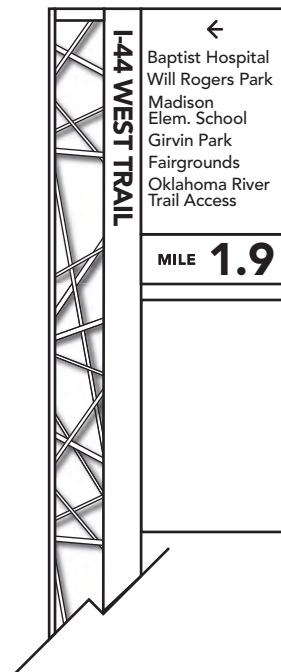
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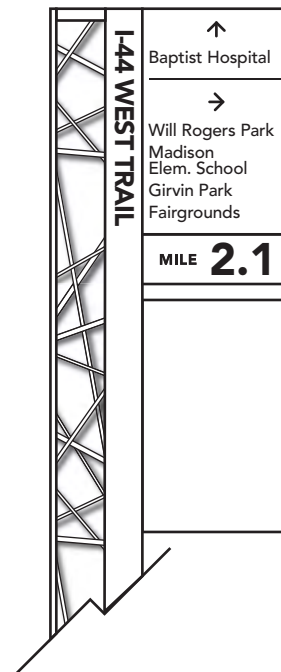
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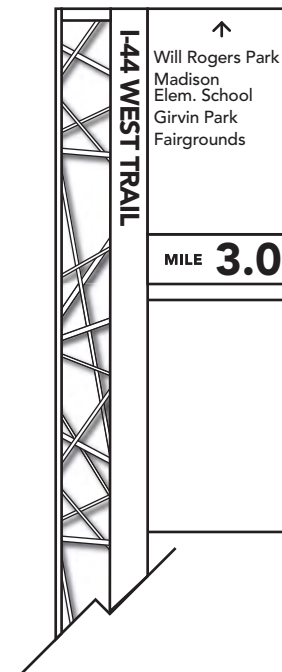
**C.38-016**



**C.39-016**



**C.40-016**



C

Tall Directional - Messages

Scale: 1/2" = 1'



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
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Parks and Recreation Dept.

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Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO



Back Side ◀ Front Side

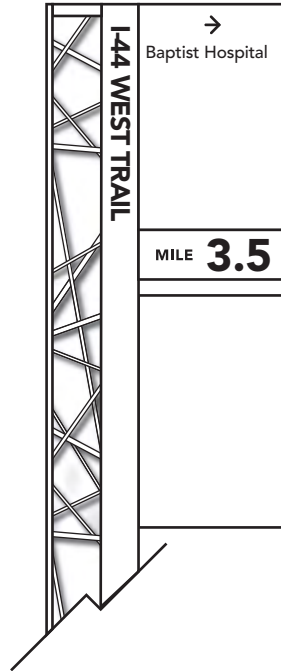
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

C

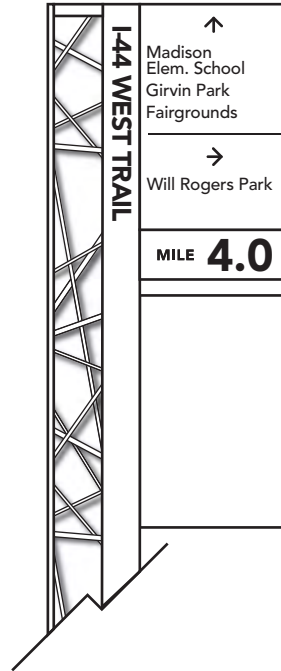
Tall Directional - Messages

Scale: 1/2" = 1'

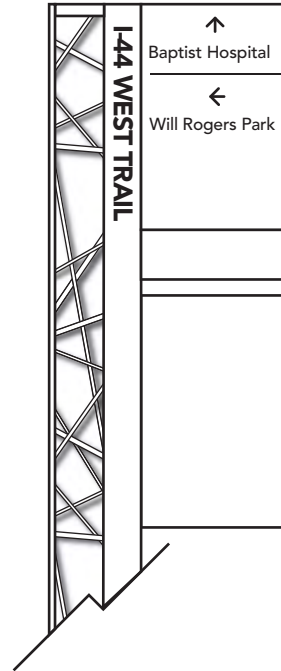
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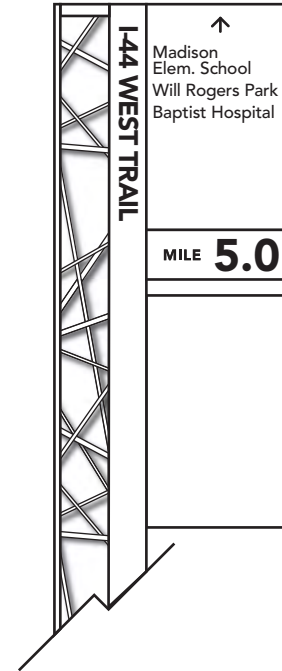
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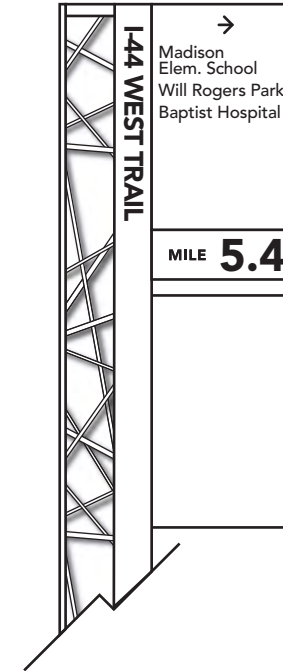
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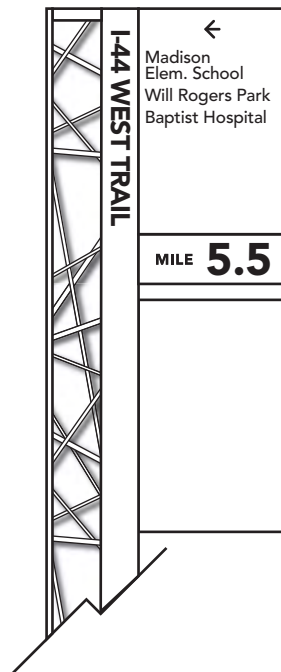
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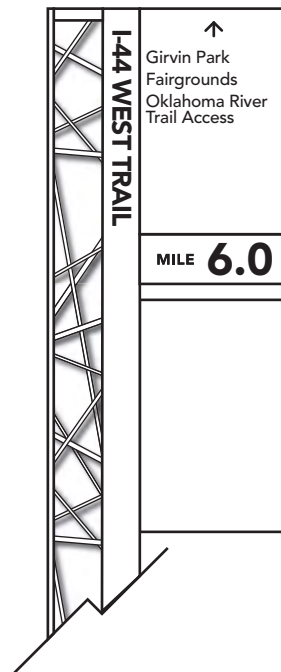
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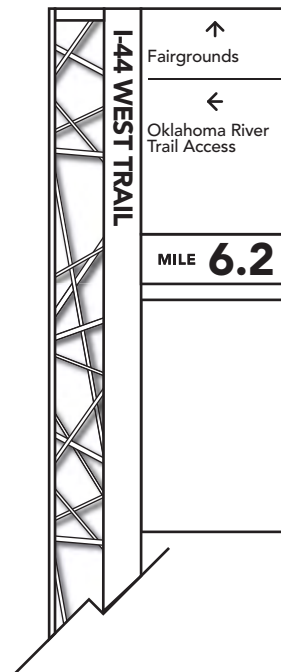
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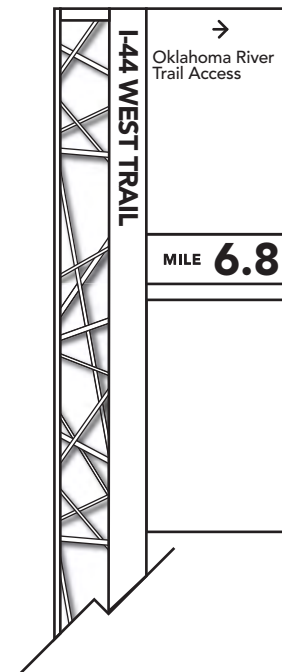
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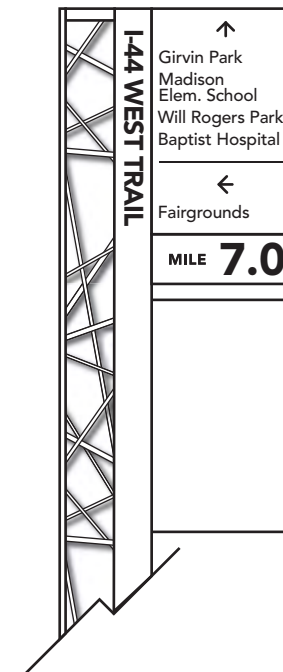
C.47-016



C.48-016



C.49-016



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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Project Team: SPC  
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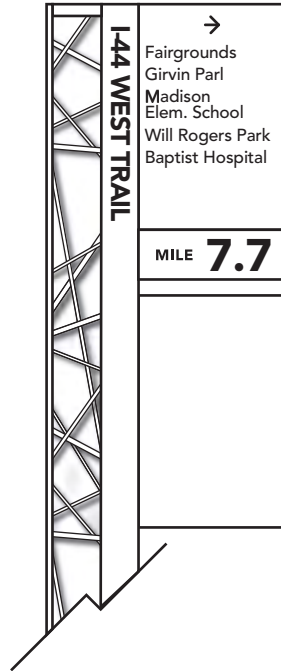
Drawn by: AEO

Back Side ◀ Front Side

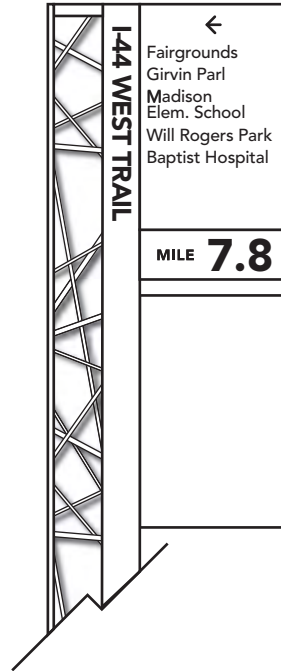
See Design Detail on pages 16-18 for Back Side Graphics  
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**C** Tall Directional - Messages  
Scale: 1/2" = 1'

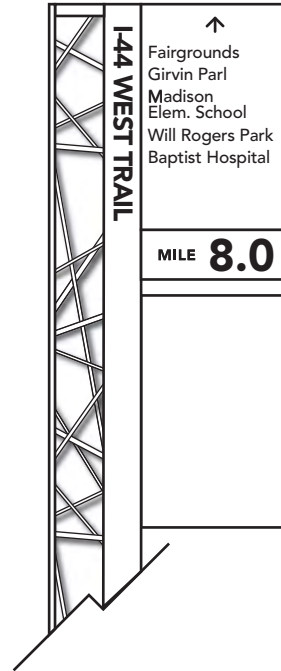
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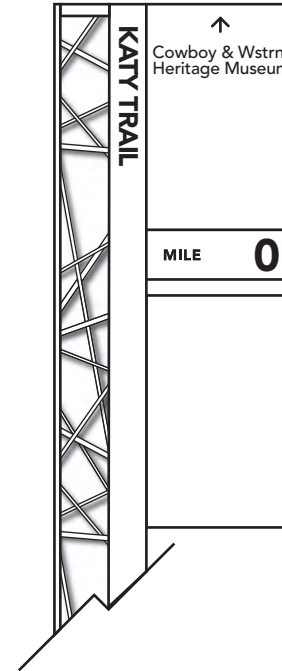
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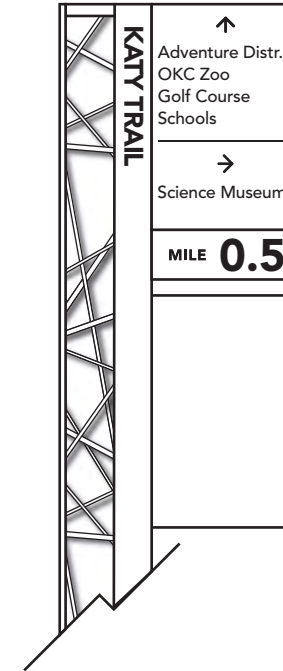
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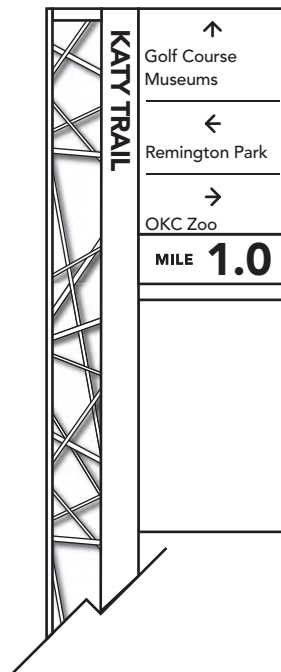
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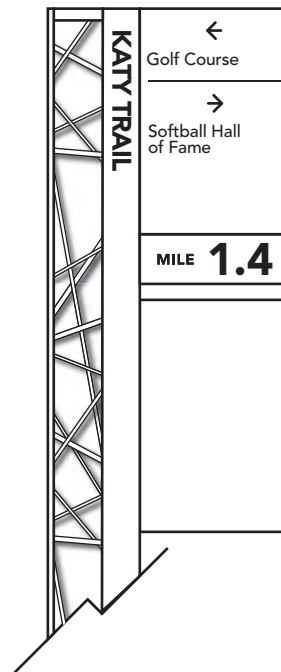
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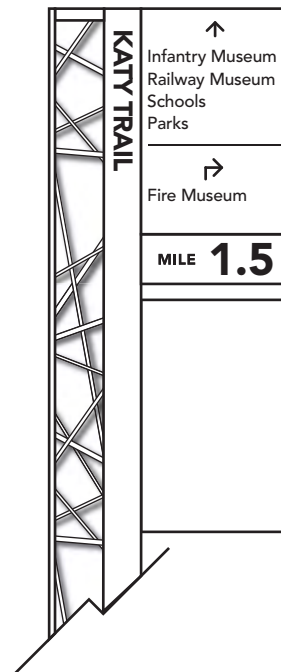
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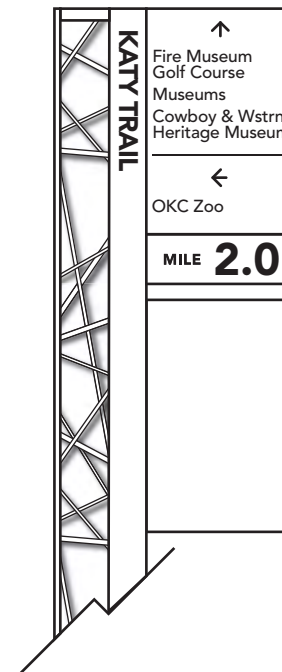
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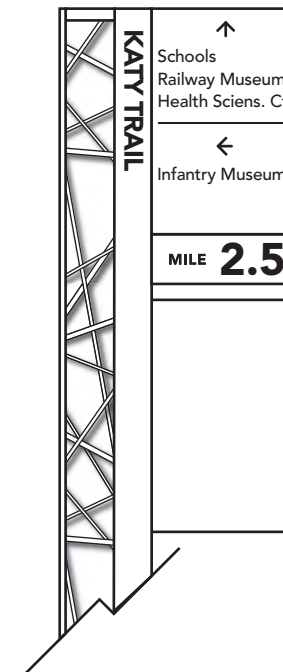
**C.57-016**



**C.58-016**



**C.59-016**



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

079

Back Side ◀ Front Side

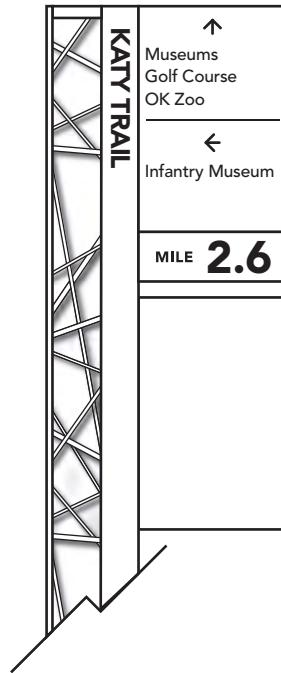
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

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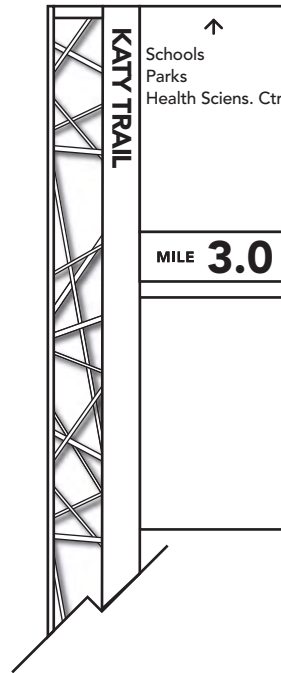
### Tall Directional - Messages

Scale: 1/2" = 1'

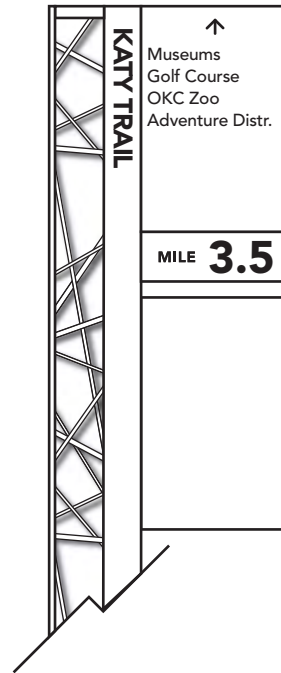
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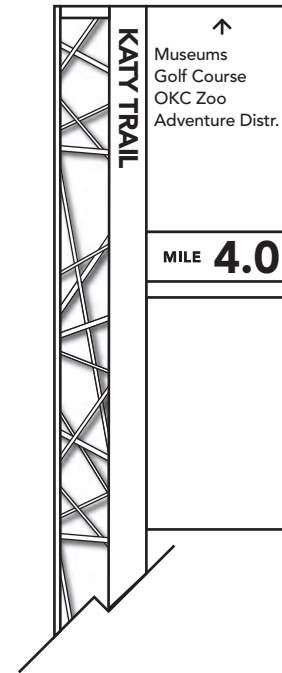
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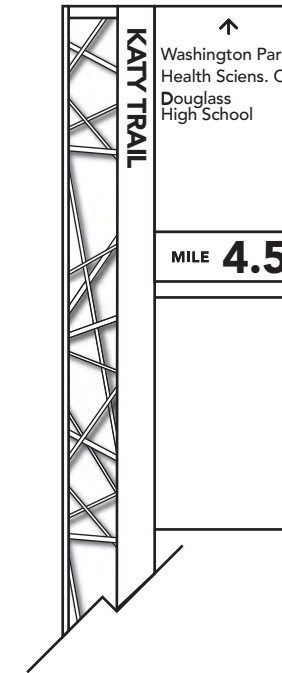
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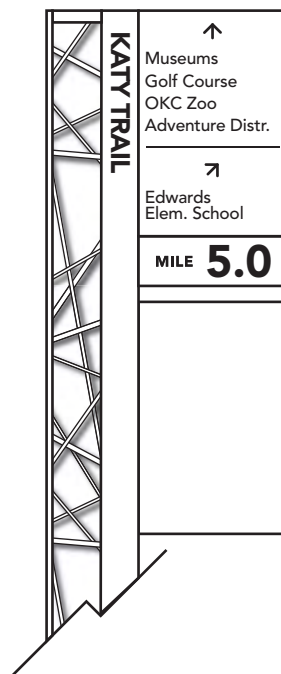
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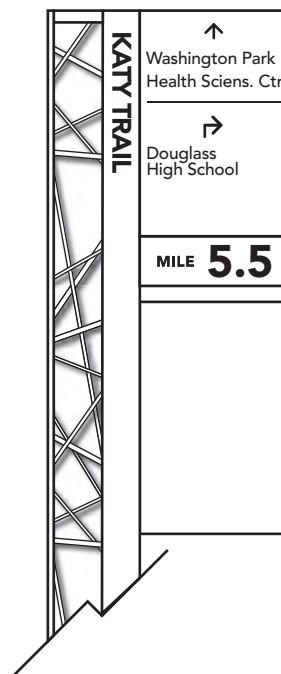
**C.64-016**



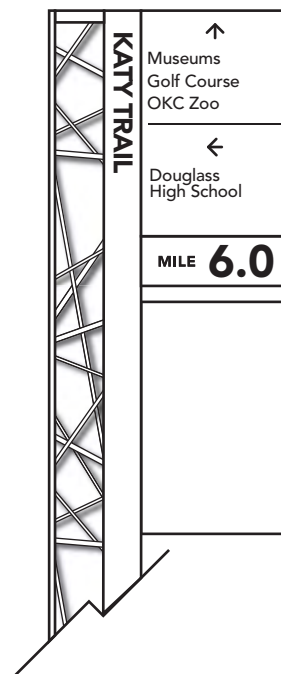
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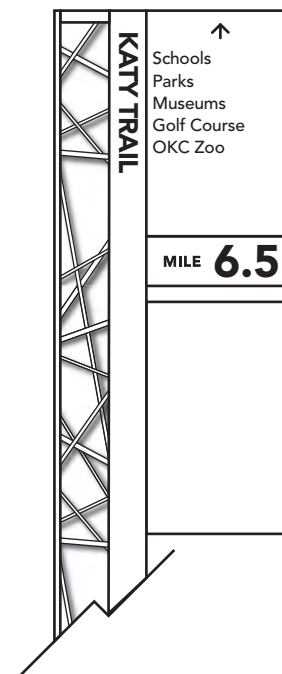
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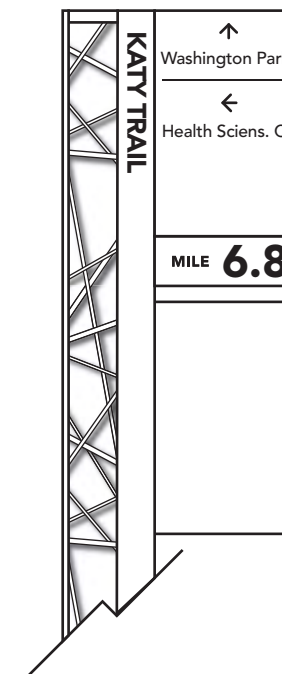
**C.67-016**



**C.68-016**



**C.69-016**



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1/2" = 1'

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Description: Design Intent  
Document

Original Issue Date: 03.06.15

Revision:

Signature/Seal:

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1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

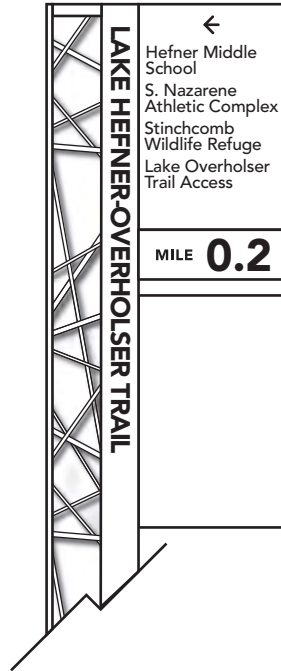
Drawn by: AEO

Back Side ◀ Front Side

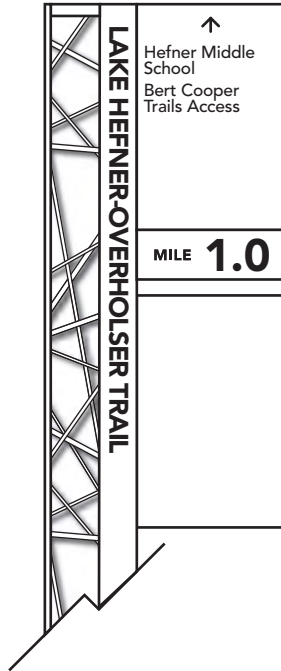
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

**C** Tall Directional - Messages  
Scale: 1/2" = 1'

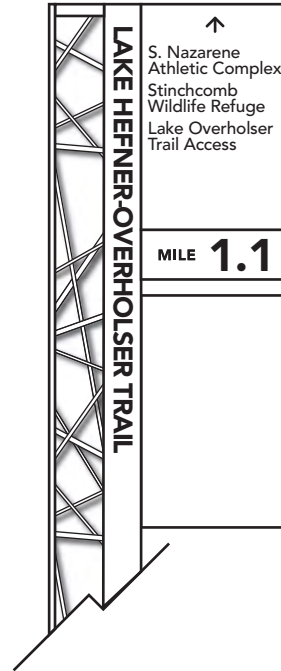
**C.70-016**



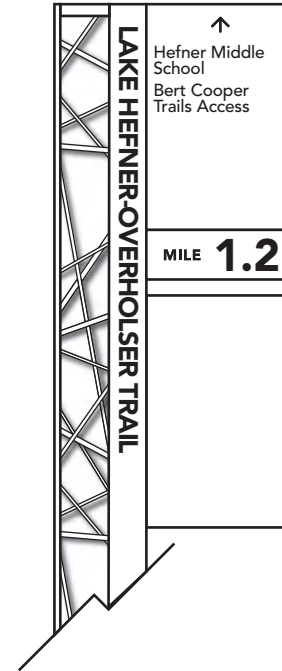
**C.71-016**



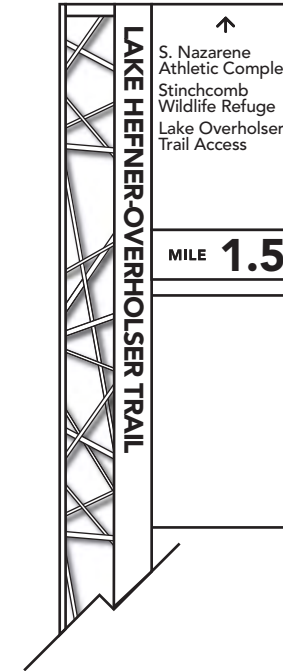
**C.72-016**



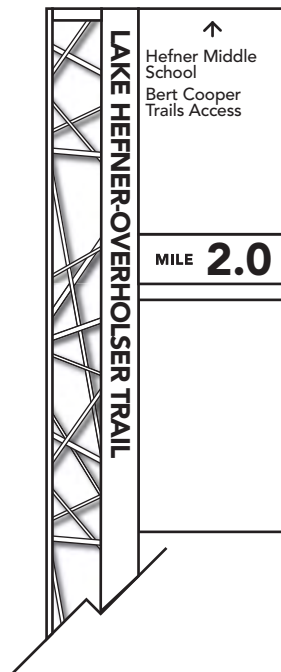
**C.73-016**



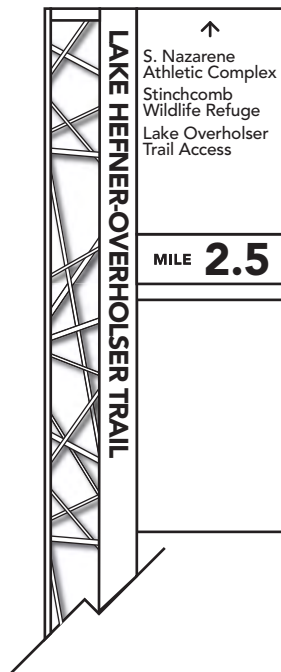
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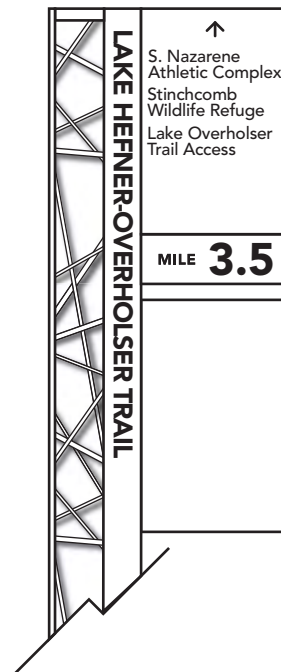
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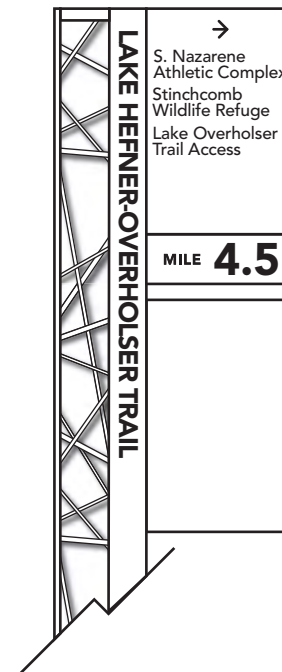
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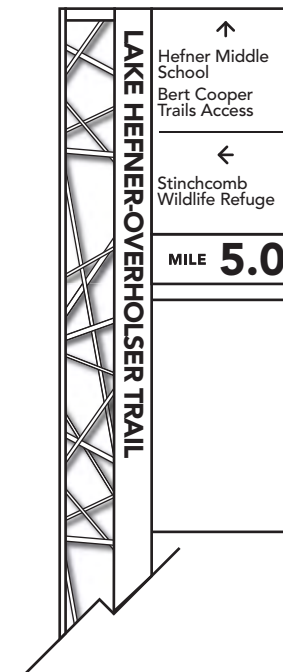
**C.77-016**



**C.78-016**



**C.79-016**



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

081

Back Side ◀ Front Side

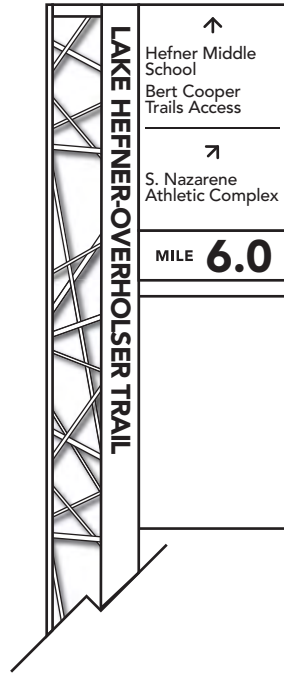
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

C

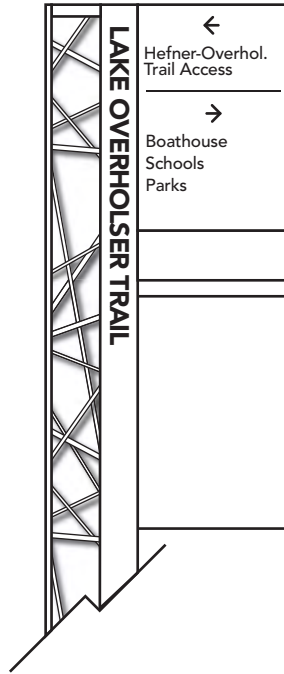
Tall Directional - Messages

Scale: 1/2" = 1'

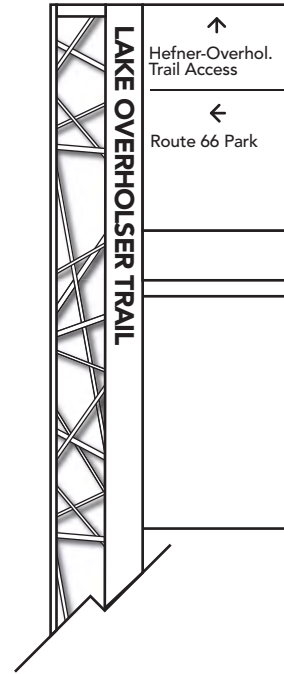
C.80-016



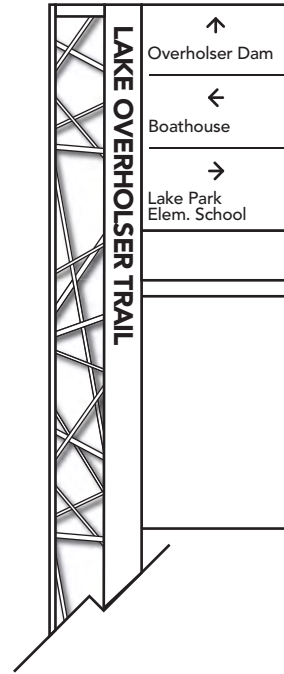
C.81-016



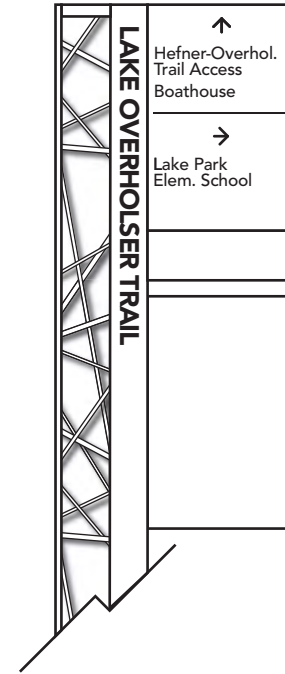
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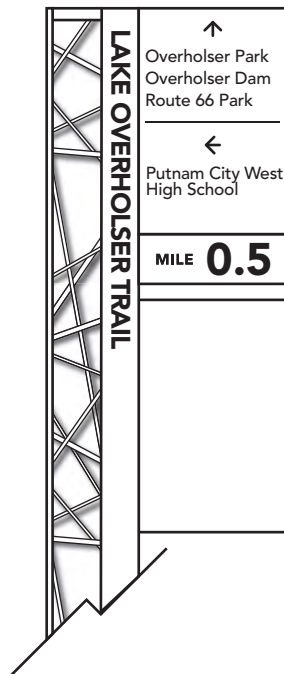
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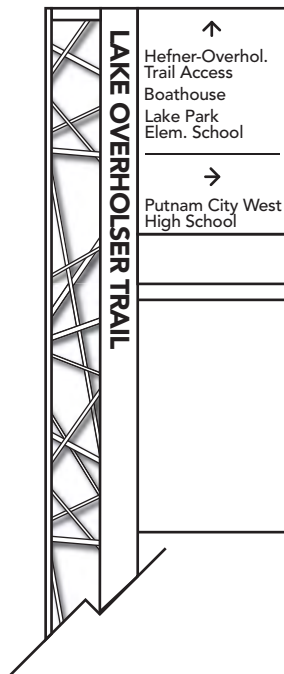
C.84-016



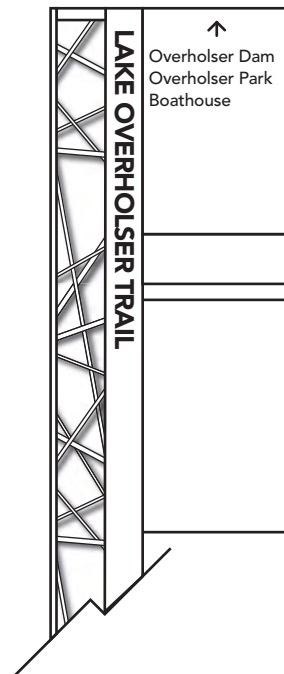
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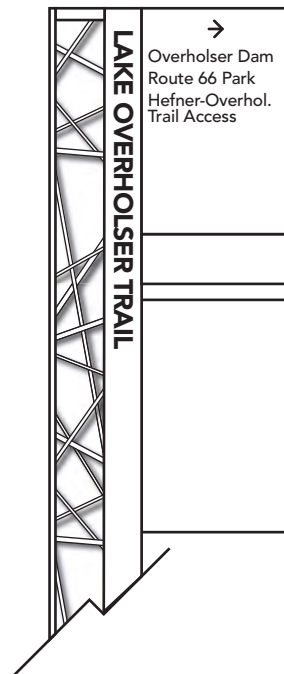
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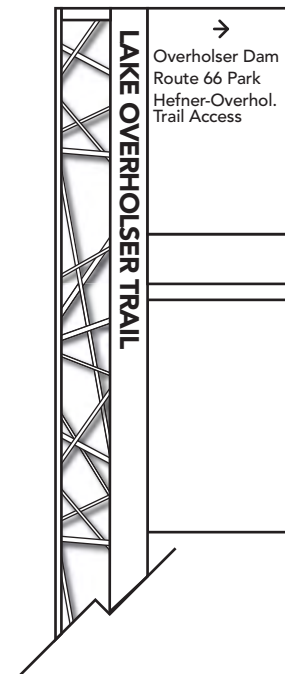
C.87-016



C.88-016



C.89-016



Wayfinding Master Plan for  
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NLC  
KMN

Drawn by: AEO

Back Side ◀ Front Side

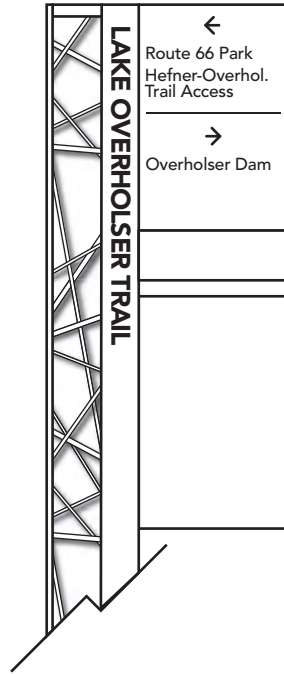
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

C

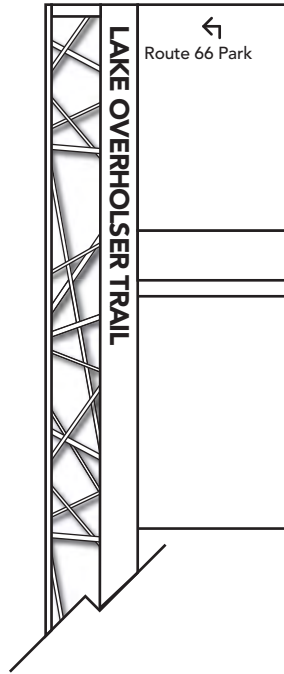
Tall Directional - Messages

Scale: 1/2" = 1'

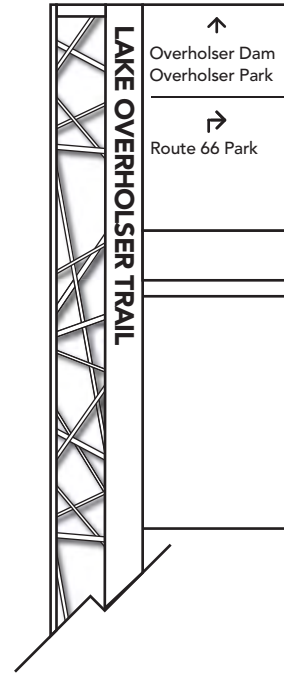
C.90-016



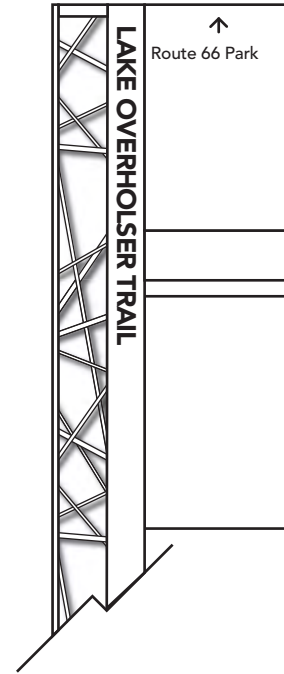
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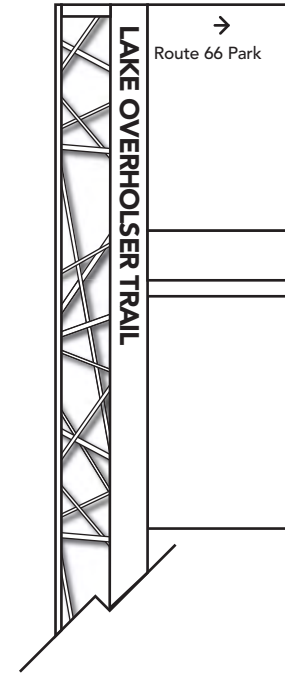
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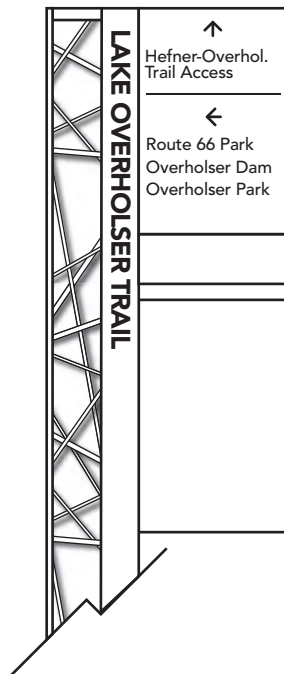
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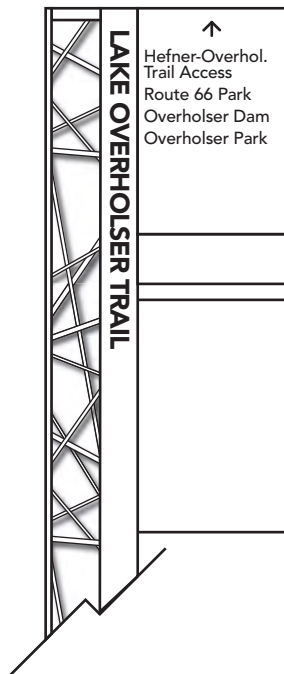
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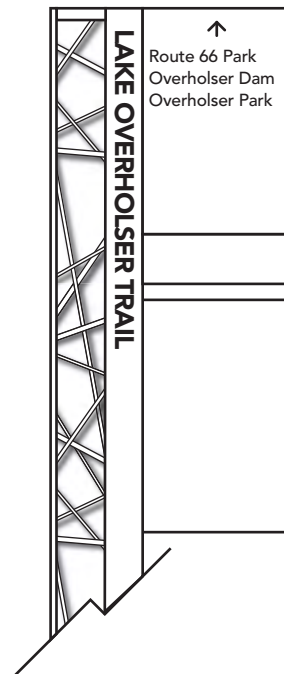
C.95-016



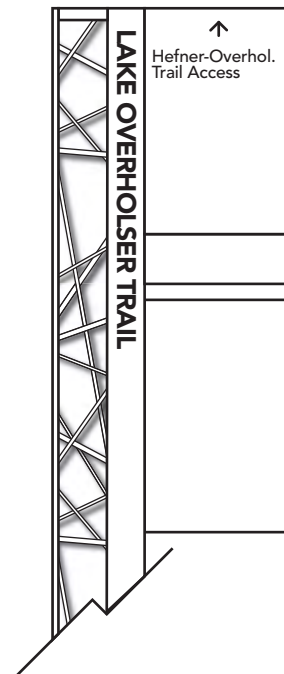
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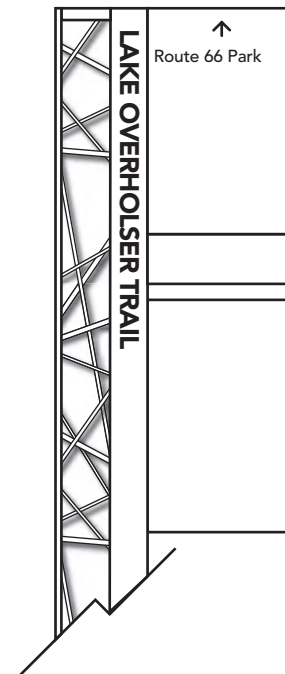
C.97-016



C.98-016



C.99-016



Wayfinding Master Plan for  
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NLC  
KMN

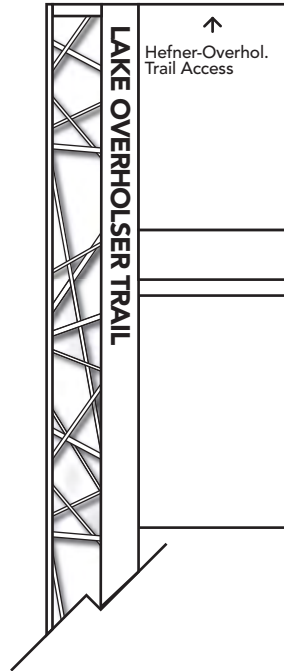
Drawn by: AEO

Back Side ◀ Front Side

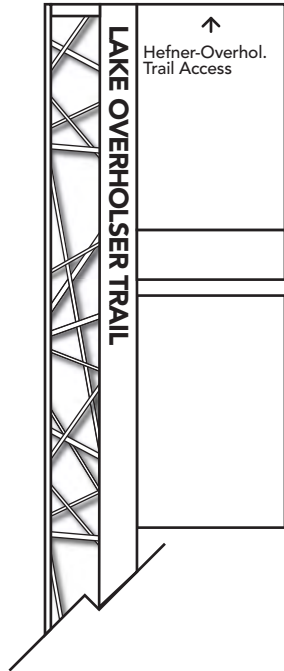
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

**C** Tall Directional - Messages  
Scale: 1/2" = 1'

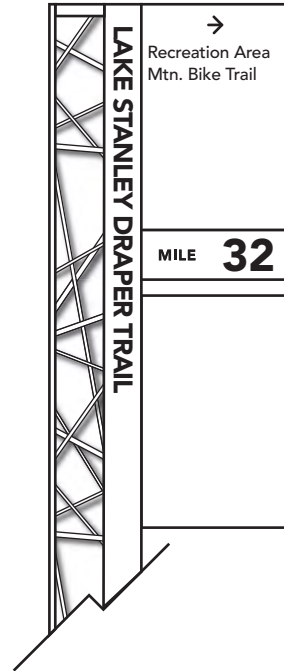
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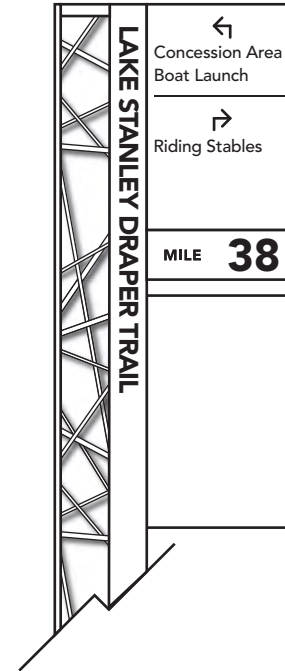
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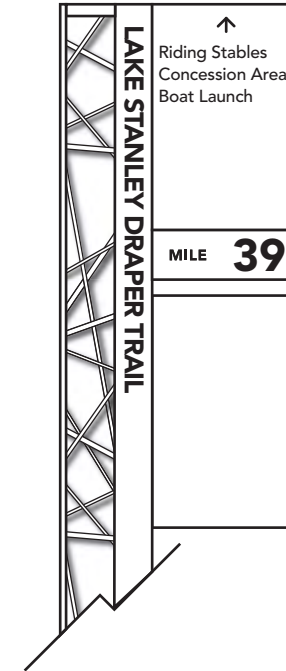
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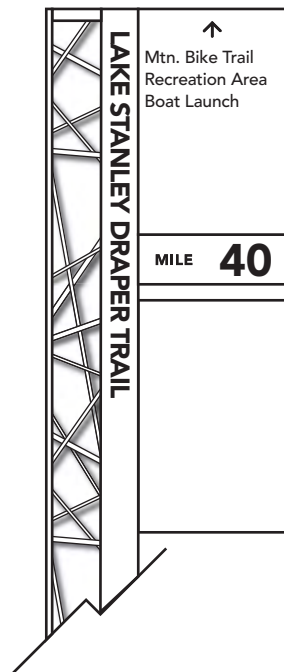
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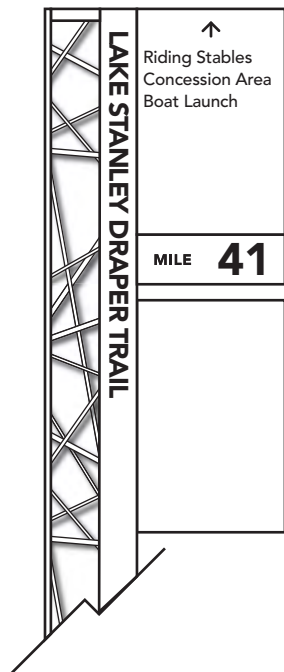
**C.104-016**



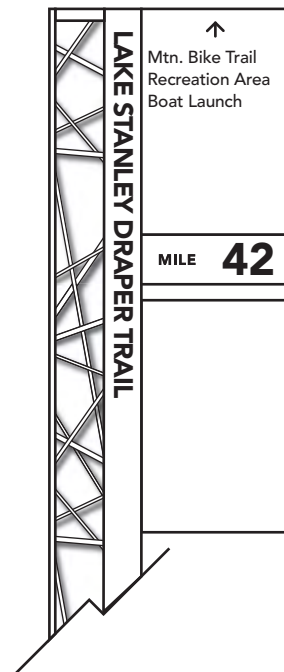
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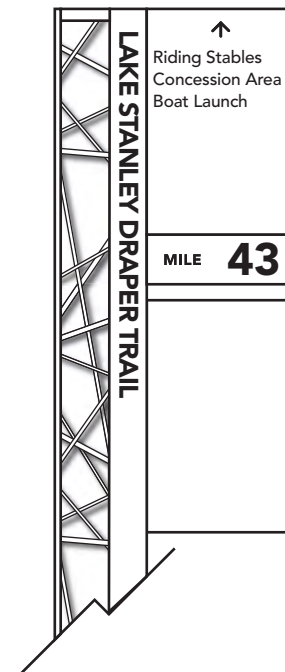
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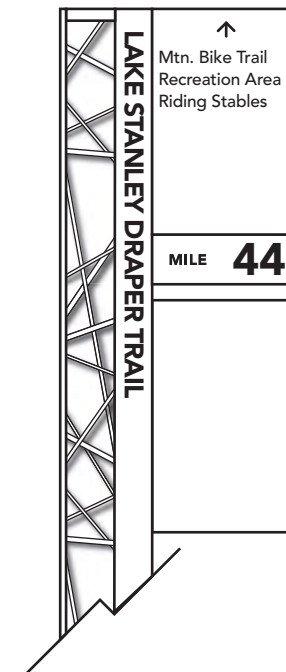
**C.107-016**



**C.108-016**



**C.109-016**



**CARDINAL ENGINEERING**  
**AECOM**

Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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Parks and Recreation Dept.

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NLC  
KMN

Drawn by: AEO

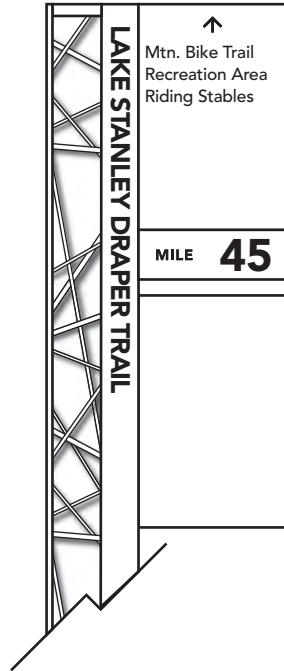
**084**

Back Side ◀ Front Side

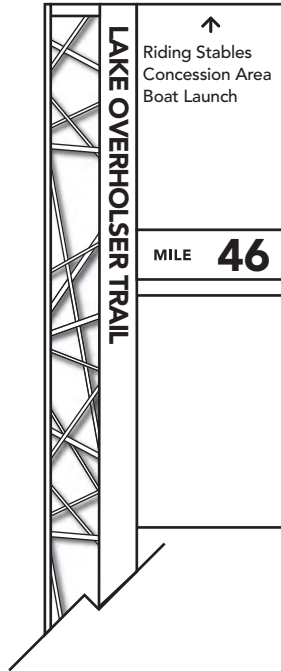
See Design Detail on pages 16-18 for Back Side Graphics  
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**C** Tall Directional - Messages  
Scale: 1/2" = 1'

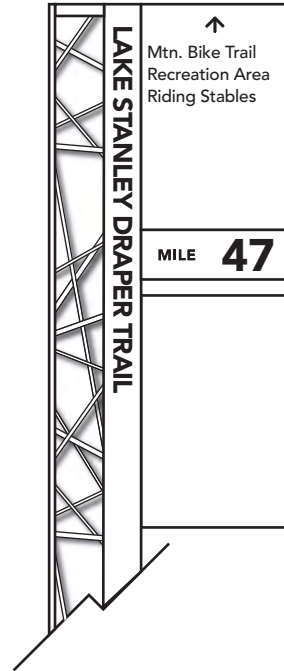
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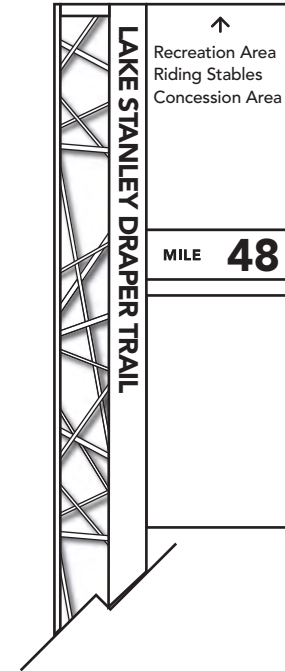
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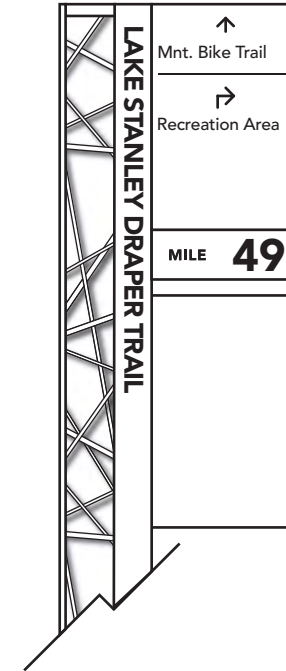
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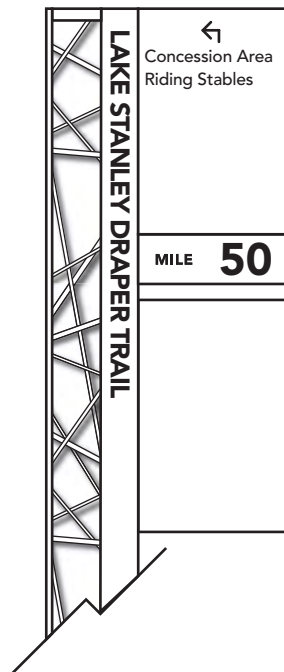
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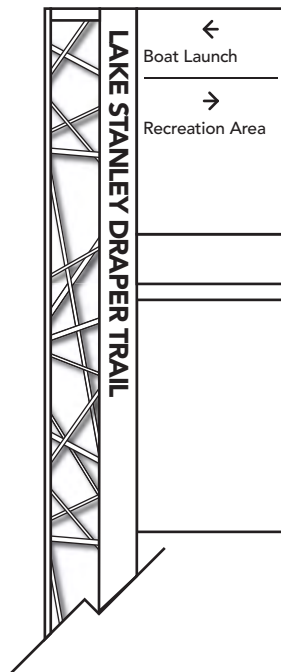
**C.114-016**



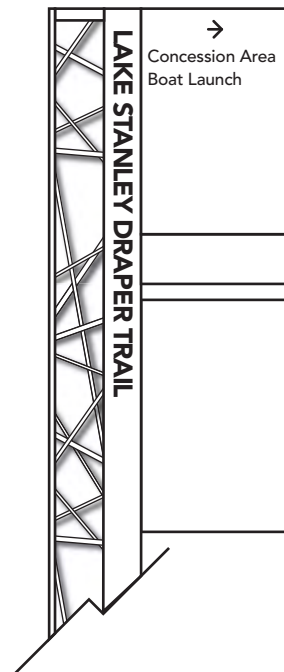
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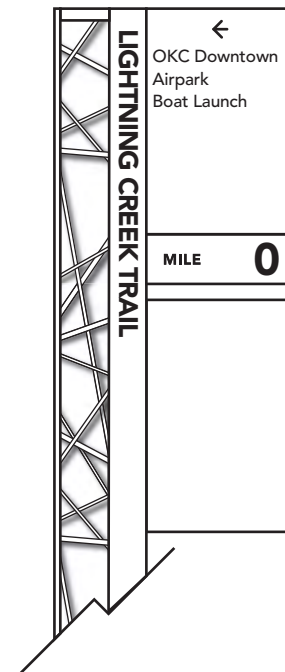
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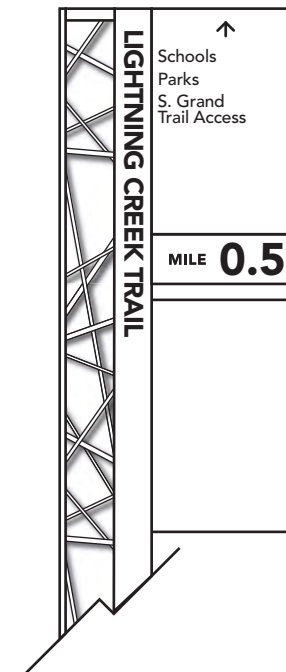
**C.117-016**



**C.118-016**



**C.119-016**



Wayfinding Master Plan for  
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KMN

Drawn by: AEO

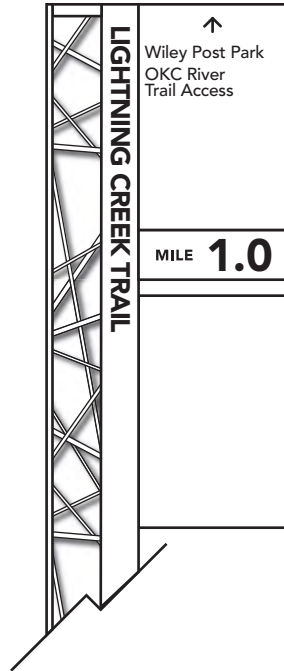


Back Side ◀ Front Side

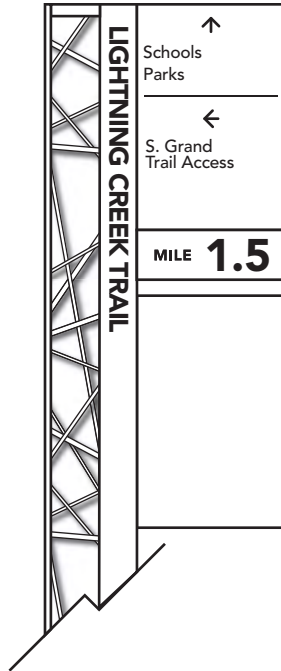
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

**C** Tall Directional - Messages  
Scale: 1/2" = 1'

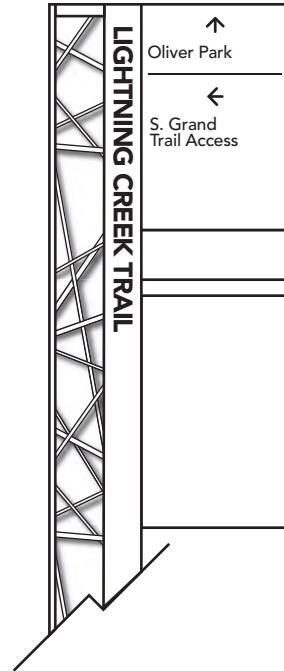
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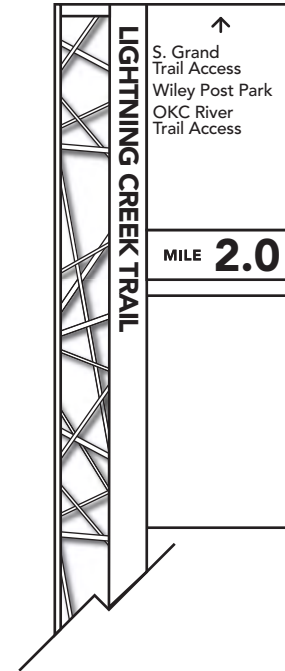
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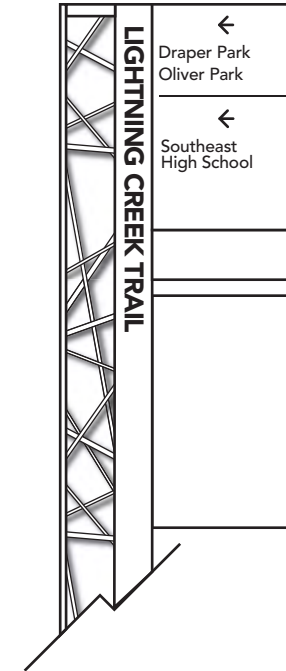
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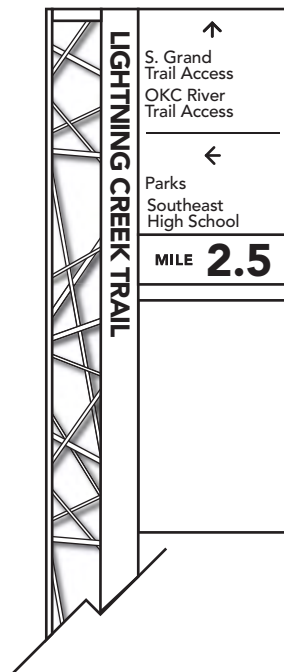
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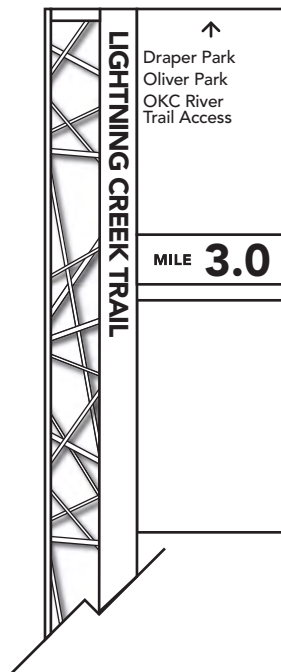
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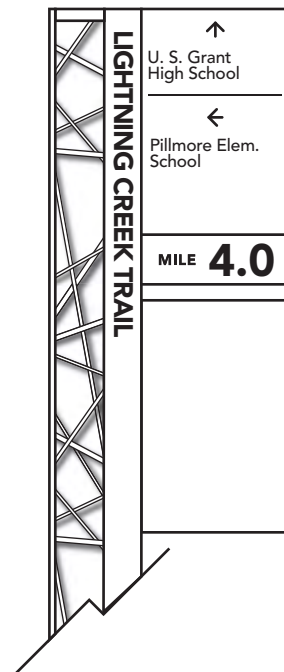
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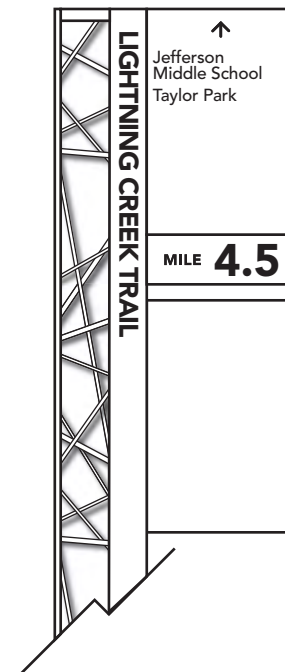
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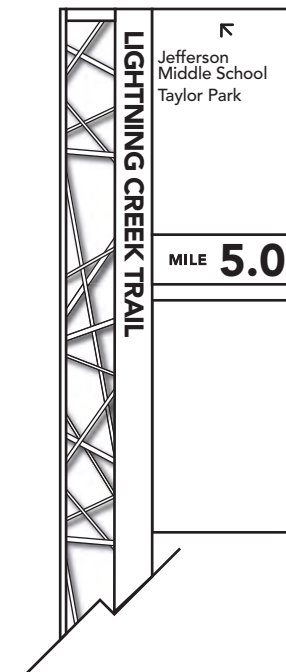
**C.127-016**



**C.128-016**



**C.129-016**



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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KMN

Drawn by: AEO

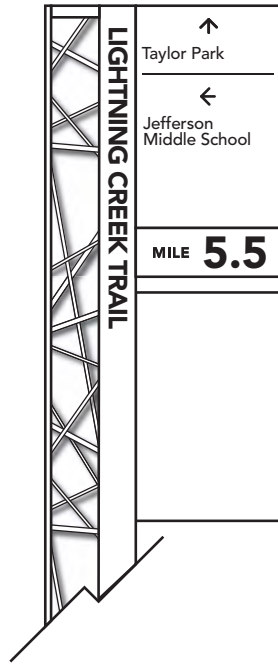
086

Back Side ◀ Front Side

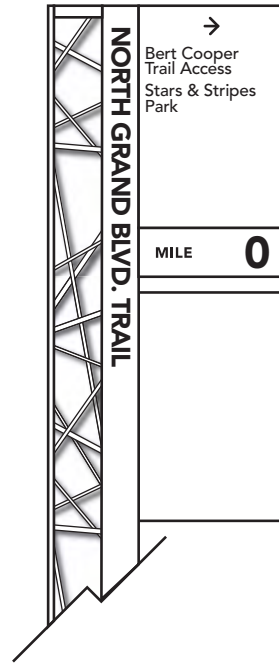
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

**C** Tall Directional - Messages  
Scale: 1/2" = 1'

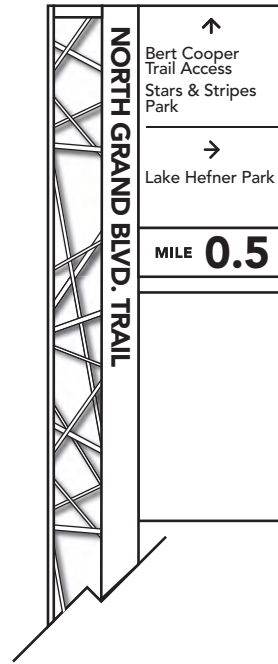
**C.130-016**



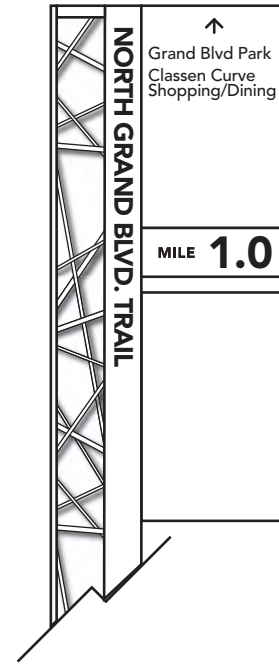
**C.131-016**



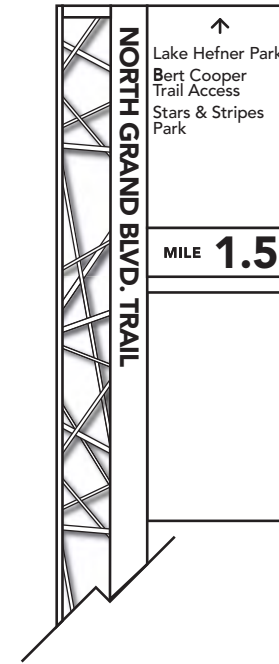
**C.132-016**



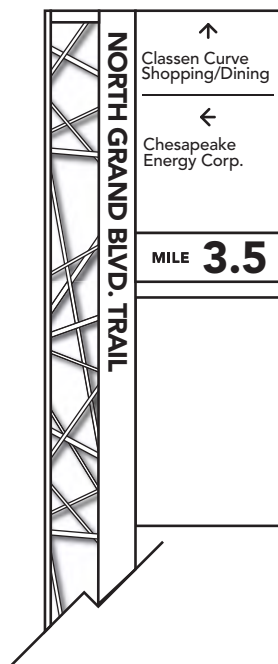
**C.133-016**



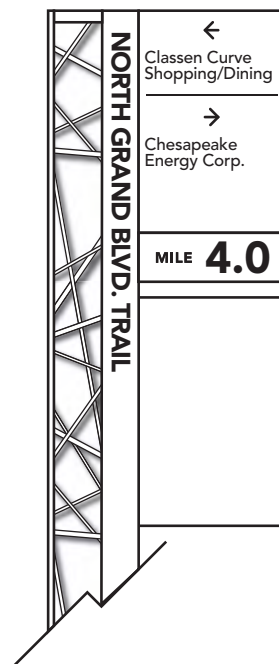
**C.134-016**



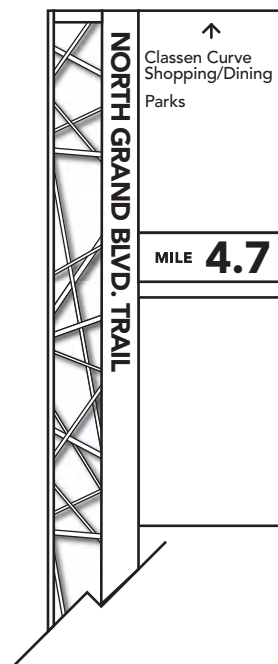
**C.135-016**



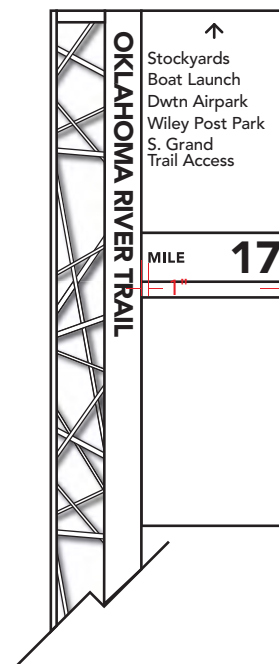
**C.136-016**



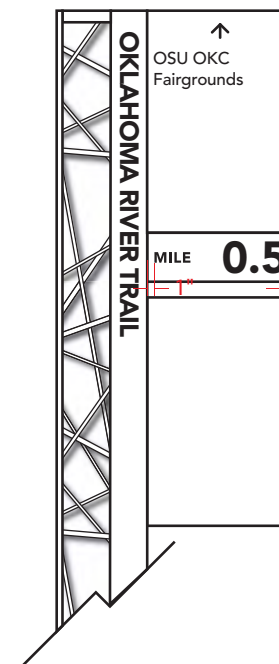
**C.137-016**



**C.138-016**



**C.139-016**



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
City of Oklahoma City  
Parks and Recreation Dept.

Scale: 1/2" = 1'

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Description: Design Intent Document

Original Issue Date: 03.06.15

Revision:

Signature/Seal:

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1015 N. Broadway Ave.  
Suite 300  
Oklahoma City, OK 73102  
405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

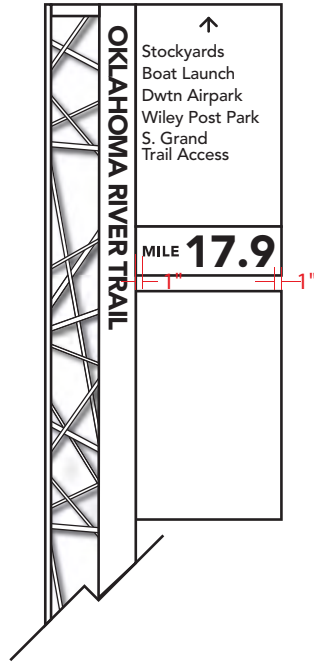
087

Back Side ◀ Front Side

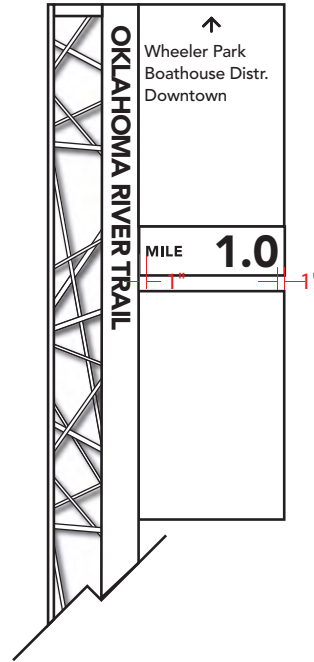
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

**C** Tall Directional - Messages  
Scale: 1/2" = 1'

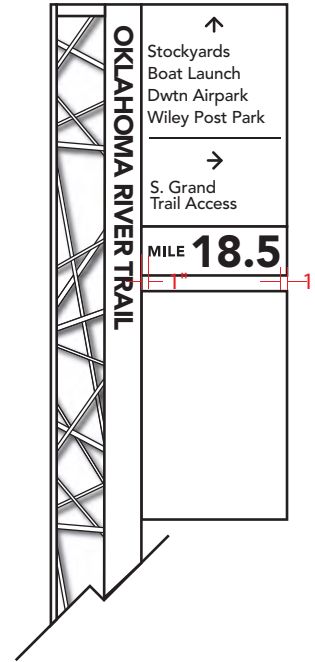
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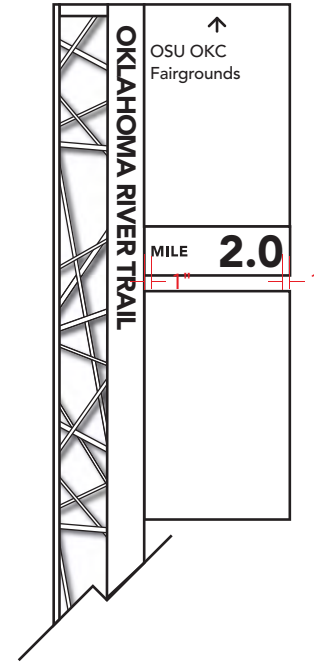
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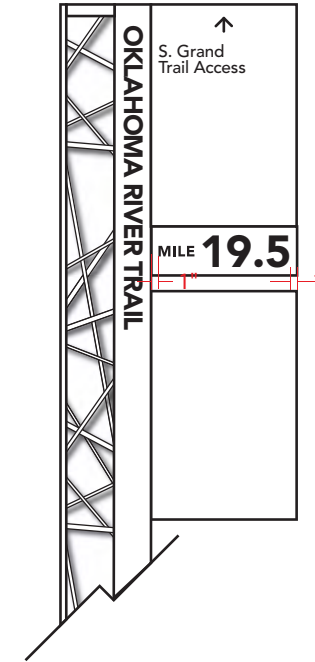
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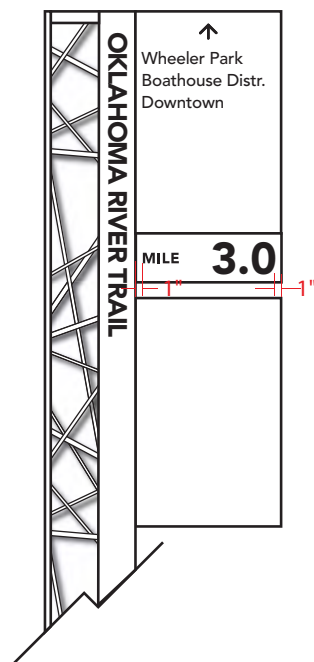
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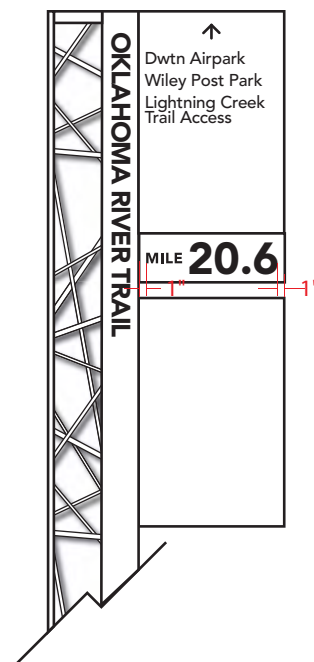
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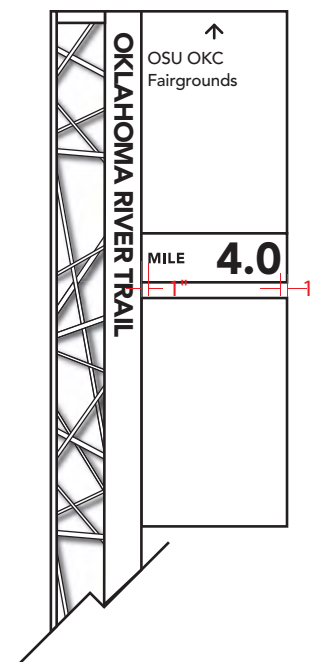
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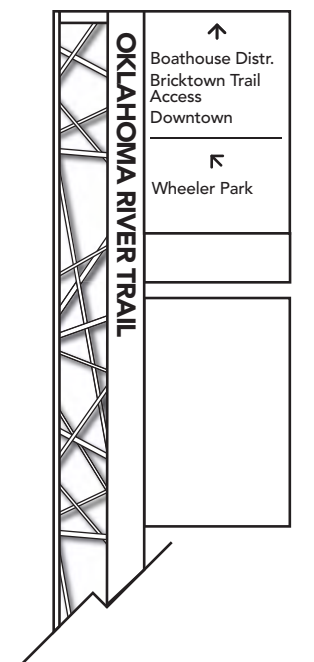
**C.146-016**



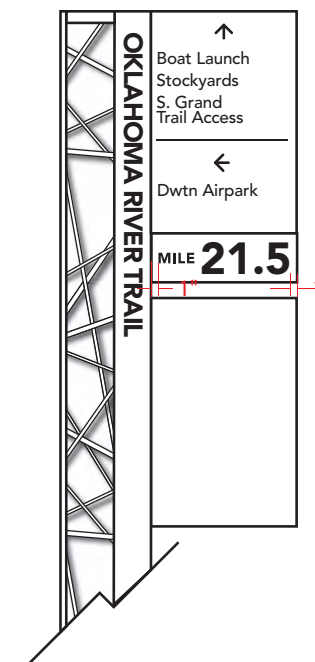
**C.147-016**



**C.148-016**



**C.149-016**



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

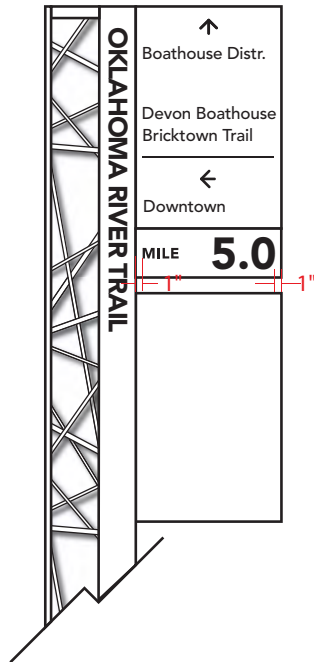
088

Back Side ◀ Front Side

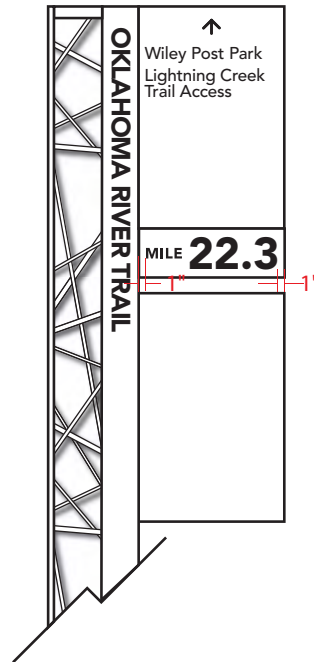
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

**C** Tall Directional - Messages  
Scale: 1/2" = 1'

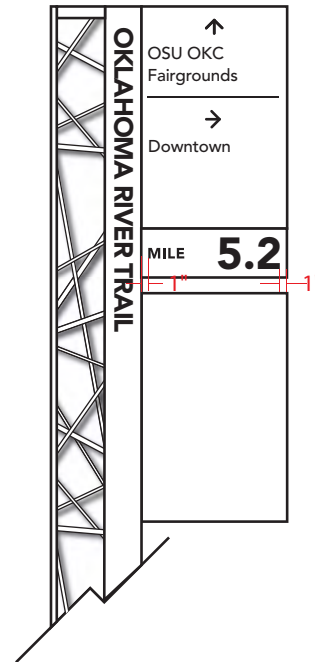
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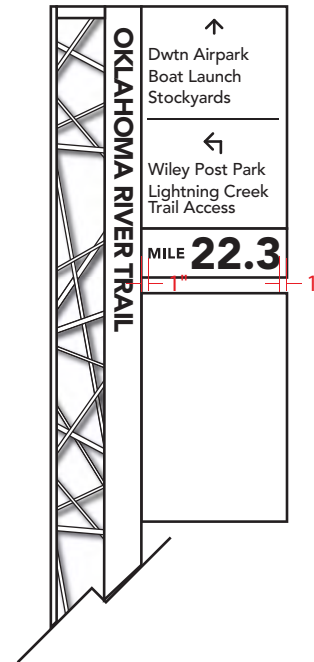
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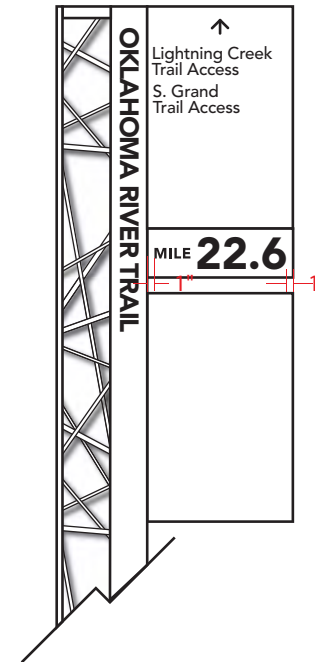
**C.152-016**



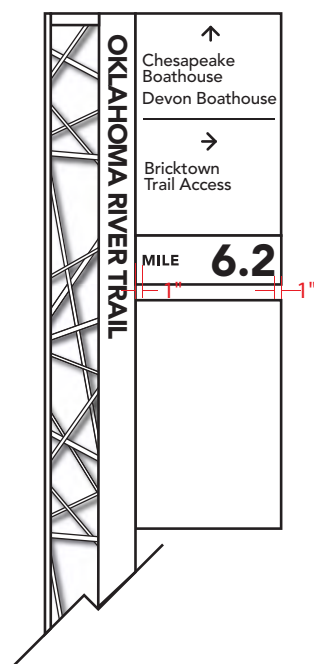
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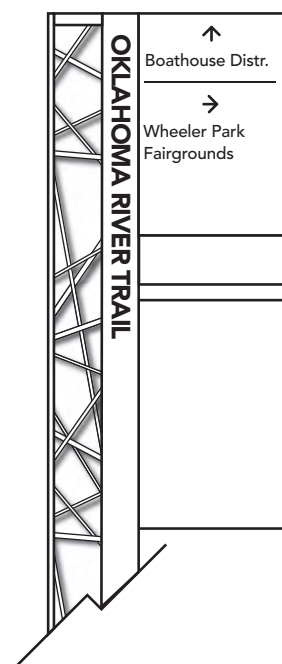
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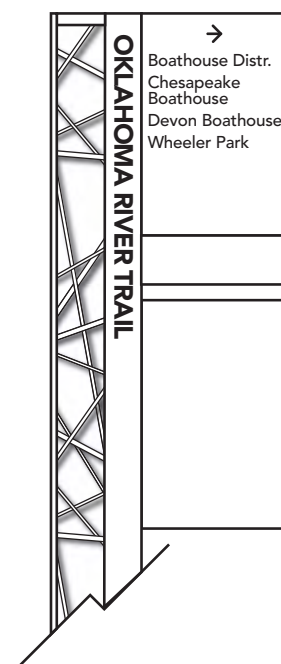
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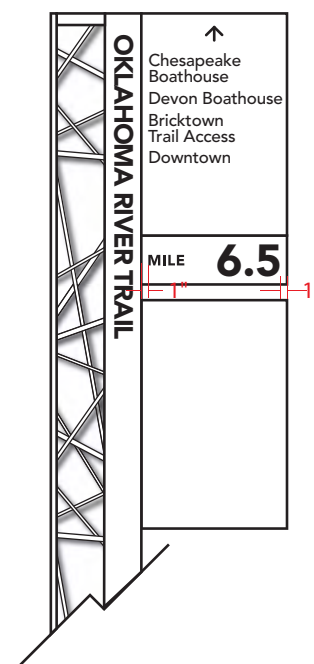
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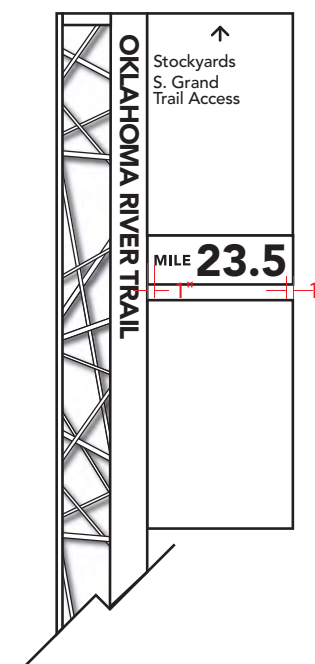
**C.157-016**



**C.158-016**



**C.159-016**



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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AEO  
NLC  
KMN

Drawn by: AEO

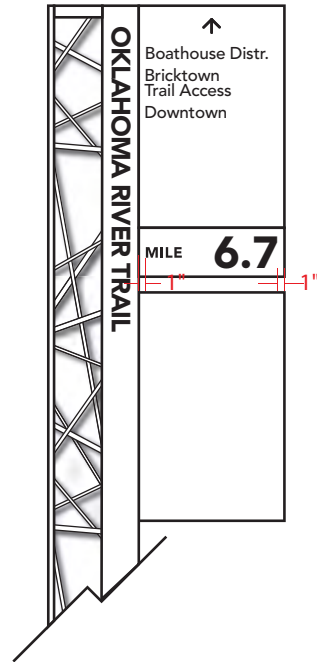
089

Back Side ◀ Front Side

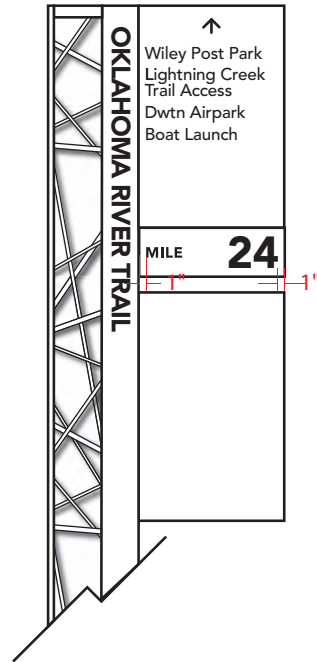
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

**C** Tall Directional - Messages  
Scale: 1/2" = 1'

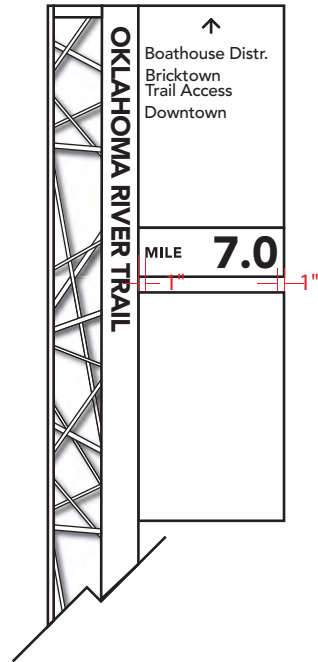
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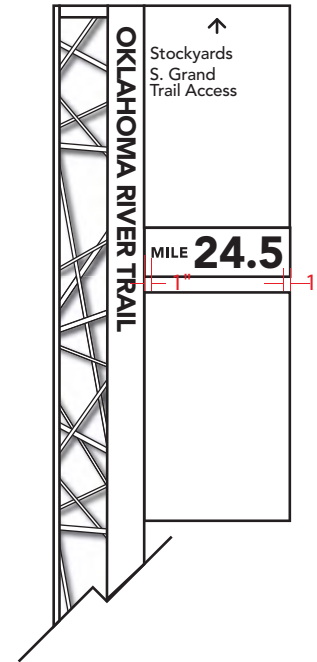
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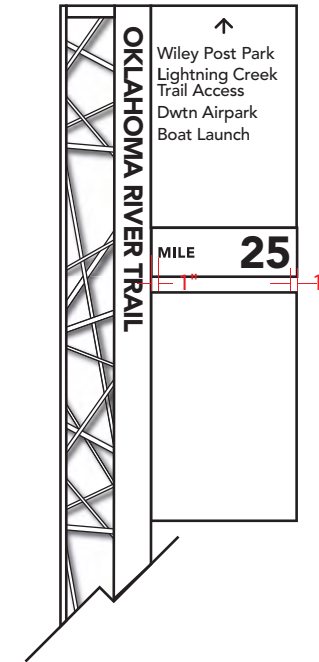
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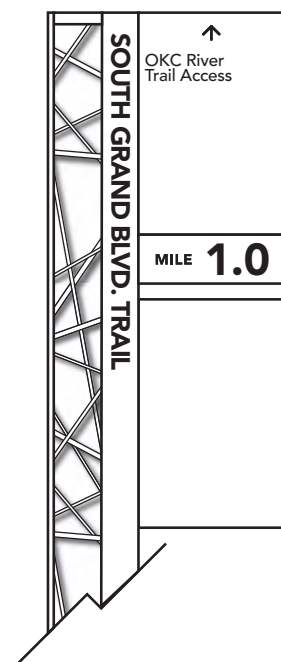
**C.163-016**



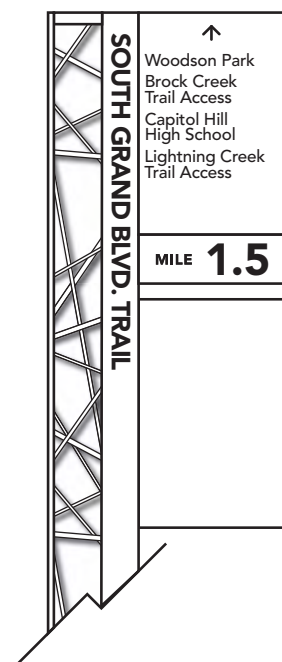
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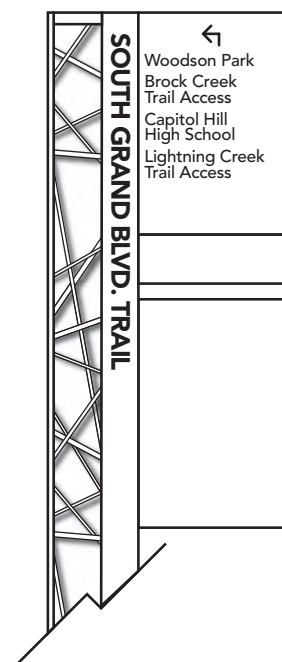
**C.165-016**



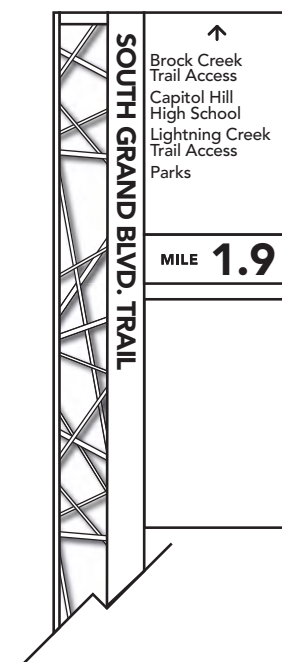
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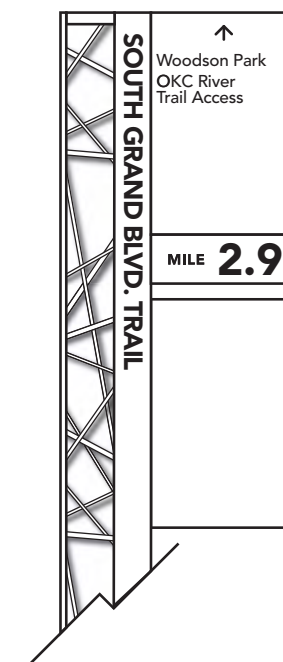
**C.167-016**



**C.168-016**



**C.169-016**



**CARDINAL ENGINEERING**  
**AECOM**

Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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City of Oklahoma City  
Parks and Recreation Dept.

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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

**090**

Back Side ◀ Front Side

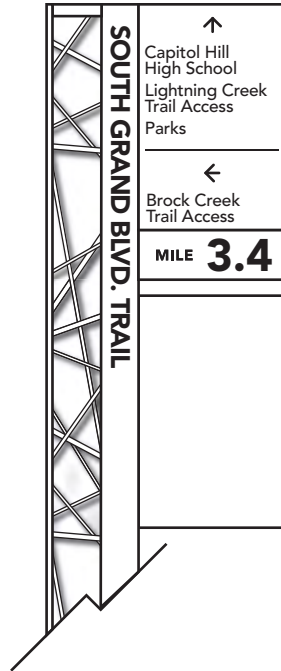
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

C

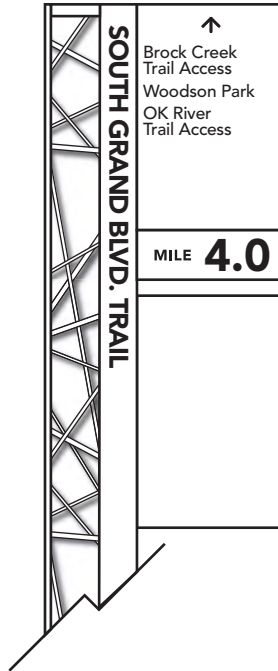
Tall Directional - Messages

Scale: 1/2" = 1'

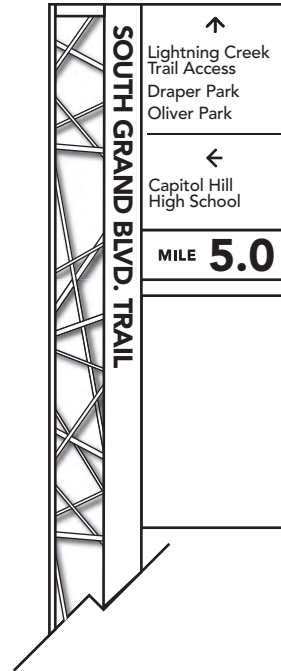
**C.170A-016**



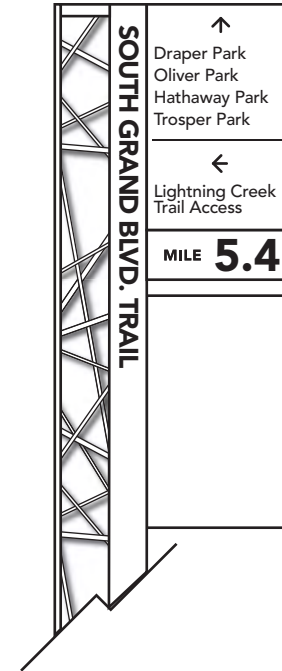
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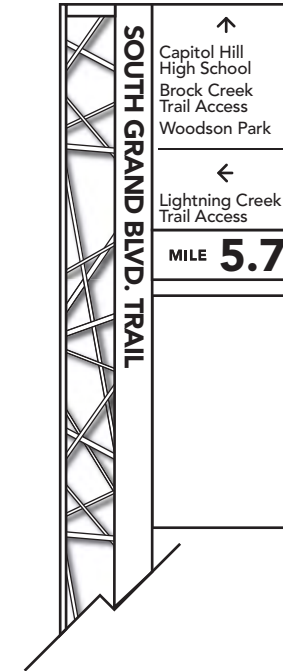
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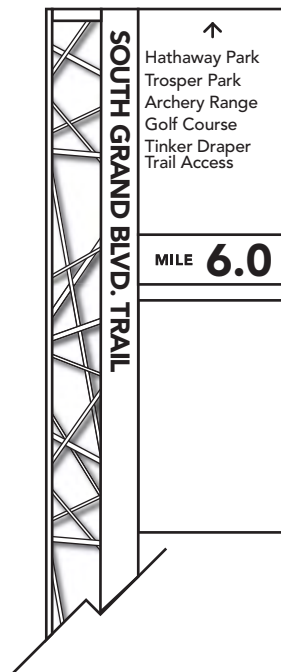
**C.172-016**



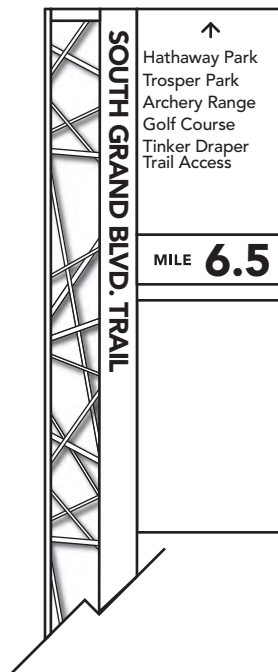
**C.173-016**



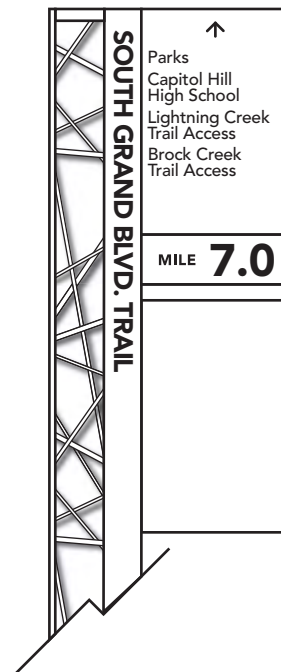
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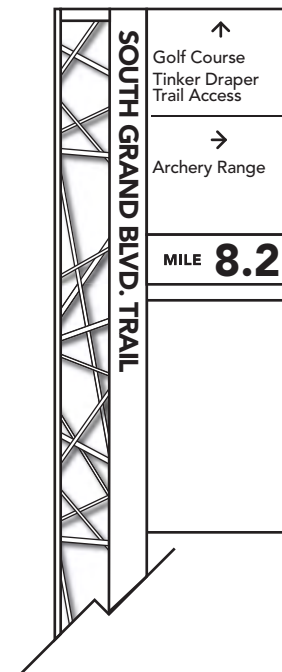
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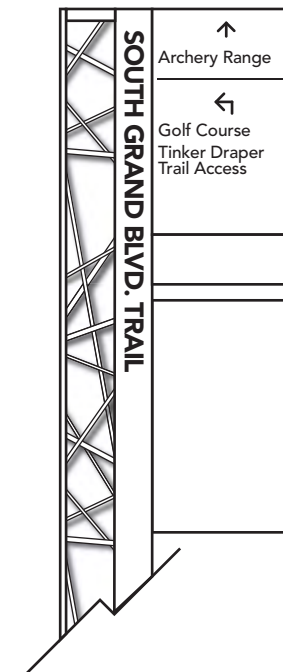
**C.176-016**



**C.177-016**



**C.178-016**



Wayfinding Master Plan for  
Oklahoma City Trails (MP-0451)

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Parks and Recreation Dept.

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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

Back Side ◀ Front Side

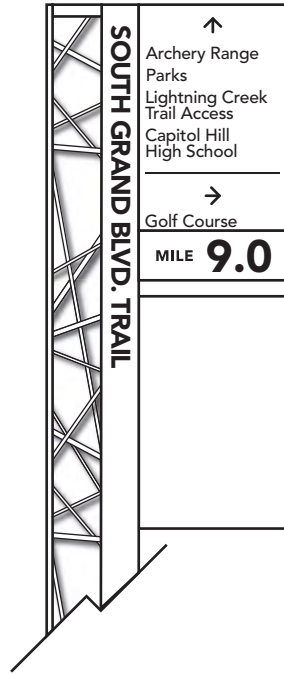
See Design Detail on pages 16-18 for Back Side Graphics  
(same graphics for all locations)

C

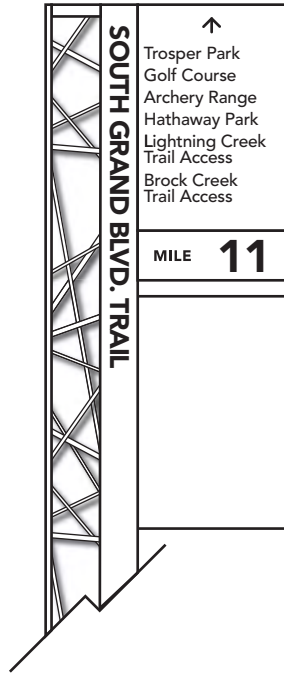
Tall Directional - Messages

Scale: 1/2" = 1'

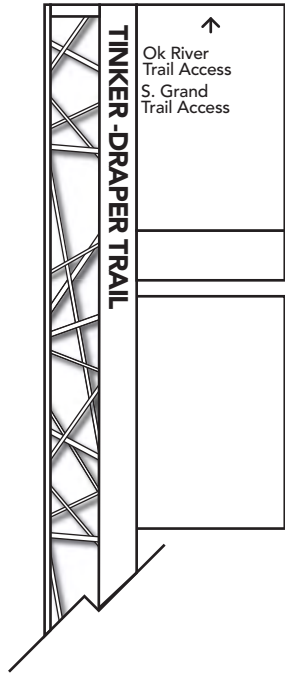
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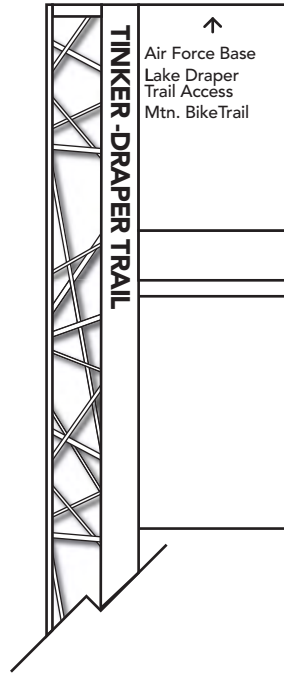
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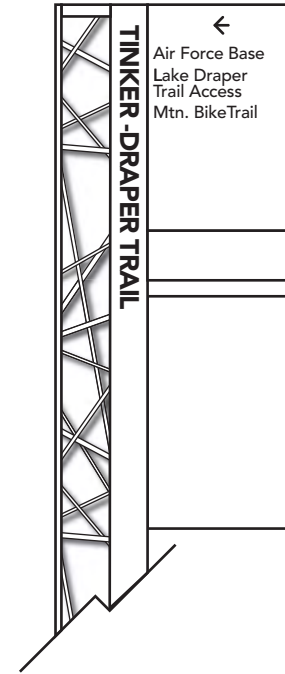
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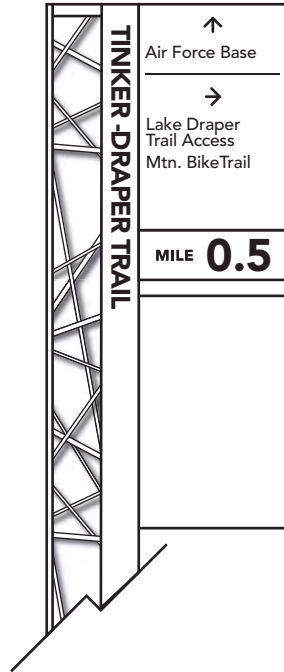
**C.182-016**



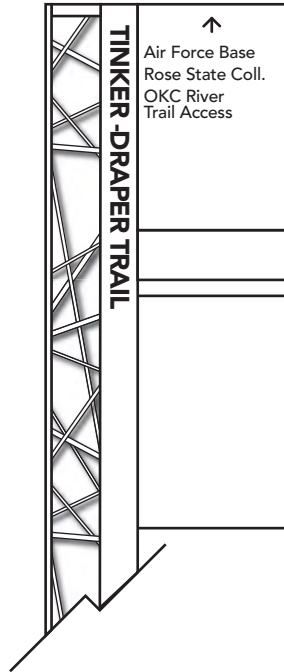
**C.183-016**



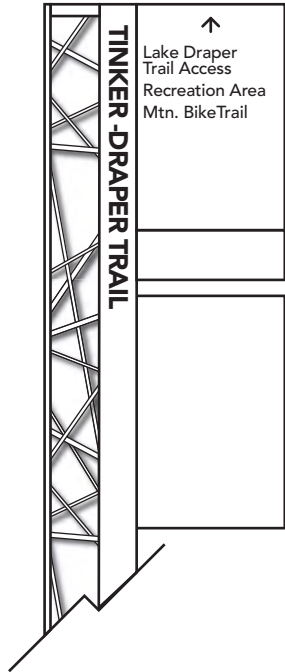
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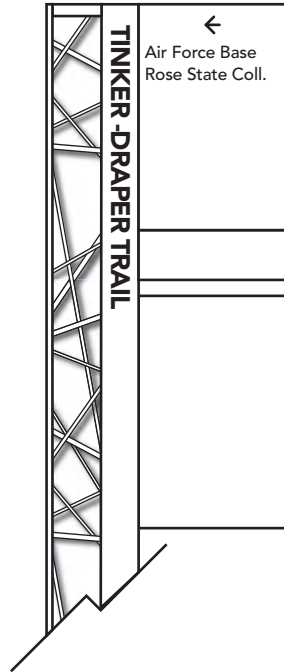
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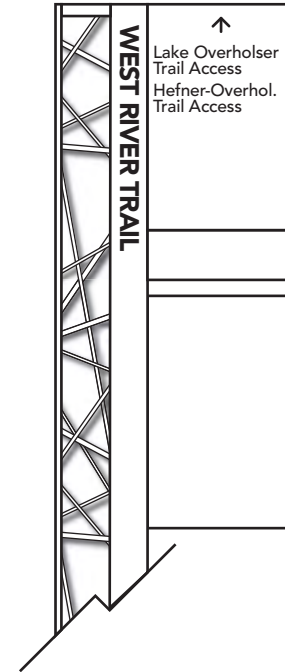
**C.186-016**



**C.187-016**



**C.188-016**



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

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Parks and Recreation Dept.

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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO

092

Back Side ◀ Front Side

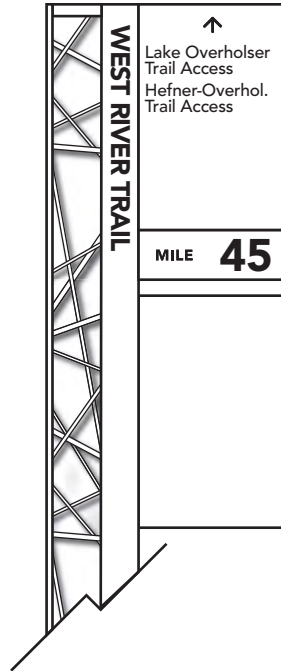
See Design Detail on pages 16-18 for Back Side Graphics (same graphics for all locations)

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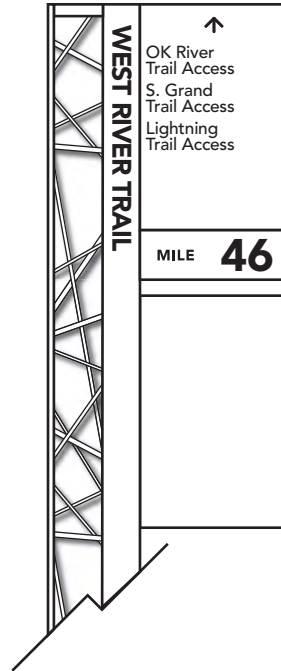
Tall Directional - Messages

Scale: 1/2" = 1'

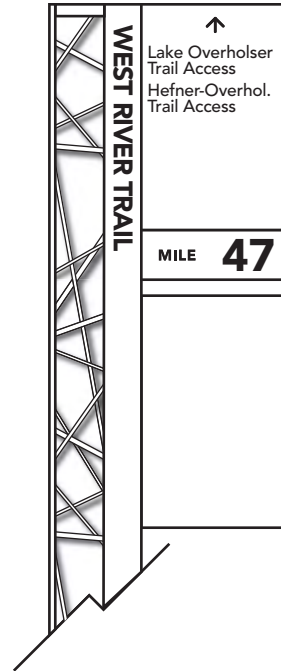
C.189-016



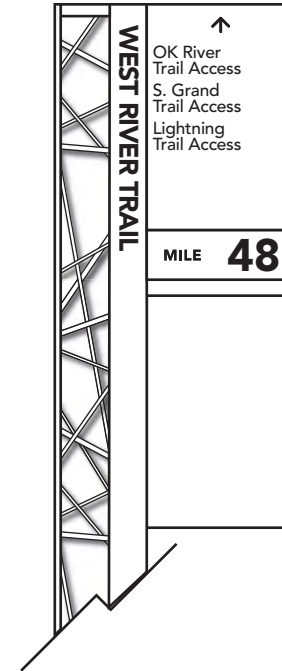
C.190-016



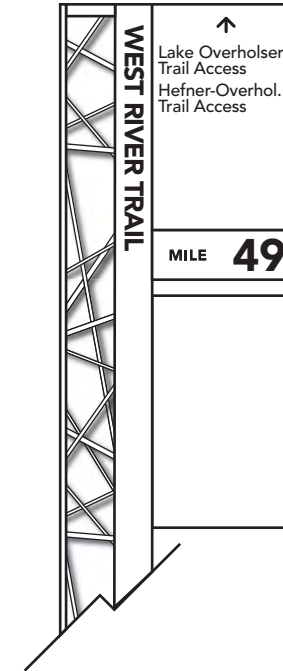
C.191-016



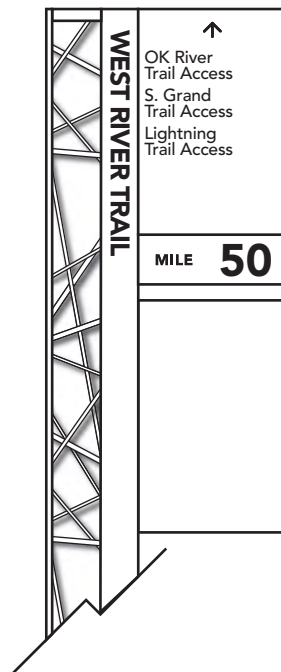
C.192-016



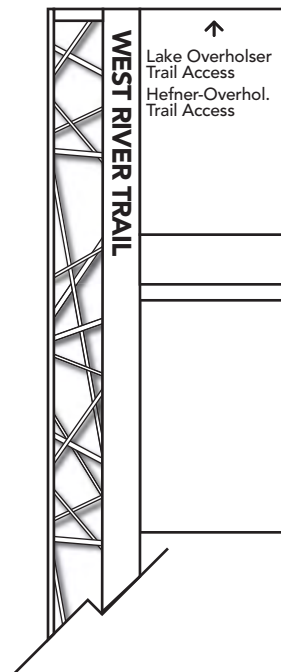
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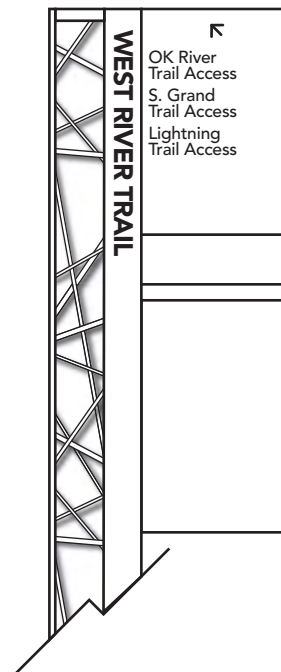
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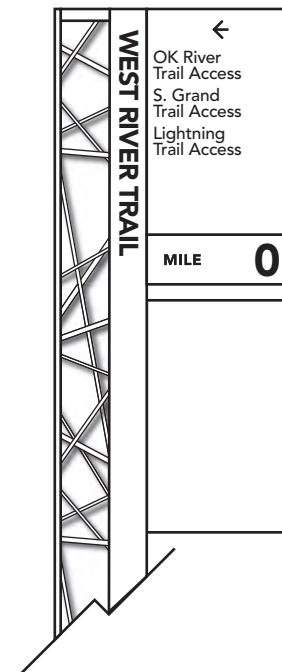
C.195-016



C.196-016



C.197-016



Wayfinding Master Plan for Oklahoma City Trails (MP-0451)

Project No: 14052.00 / 60317842  
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Parks and Recreation Dept.

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Suite 300  
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405.842.1066

Project Team: SPC  
AEO  
NLC  
KMN

Drawn by: AEO



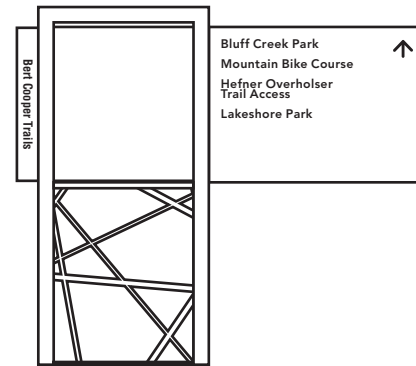
Back Side ◀ Front Side

See Design Detail on pages 19-21 for Back Side Graphics  
(same graphics for all locations)

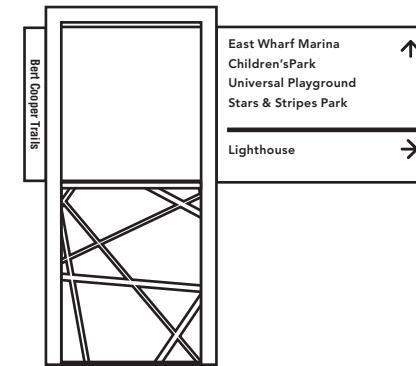
### D Small Directional - Messages

Scale: 1/2" = 1'

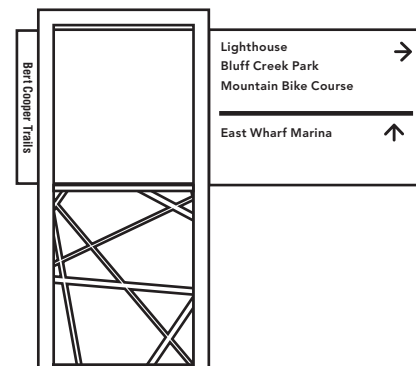
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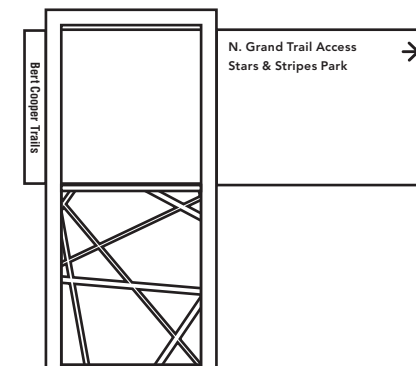
**D.02-019**



**D.03-019**



**D.04-019**



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**F** Mile Marker - Messages Abreviations Scale: 1" = 1'

**F.01-025 to F.07-025**



Mile number varies according to sign location. See Pages 96 for table of messages.

**F.08-025 to F.22-025**



Mile number varies according to sign location. See Pages 96 for table of messages.

**F.23-025 to F.33-025**



Mile number varies according to sign location. See Pages 96 for table of messages.

**F.34-025 to F.40-025**



Mile number varies according to sign location. See Pages 96 for table of messages.

**F.41-025 to F.47-025**



Mile number varies according to sign location. See Pages 96 for table of messages.

**F.48-025 to F.66-025**



Mile number varies according to sign location. See Pages 96 for table of messages.



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Trail	ID	Mile	Designation
Bert Cooper	F.48	0.5	
Bert Cooper	F.49	1	
Bert Cooper	F.50	1.5	
Bert Cooper	F.51	2	
Bert Cooper	F.52	2.5	
Bert Cooper	F.53	3	
Bert Cooper	F.54	3.5	
Bert Cooper	F.55	4	
Bert Cooper	F.56	4.5	
Bert Cooper	F.57	5	
Bert Cooper	F.58	5.5	
Bert Cooper	F.59	6	
Bert Cooper	F.60	6.5	
Bert Cooper	F.61	7	
Bert Cooper	F.62	7.5	
Bert Cooper	F.63	8	
Bert Cooper	F.64	8.5	
Bert Cooper	F.65	9	
Bert Cooper	F.66	0	
Lake Overholser	F.01	6.5	
Lake Overholser	F.02	7.5	
Lake Overholser	F.03	10.5	
Lake Overholser	F.04	11.5	
Lake Overholser	F.05	12.5	
Lake Overholser	F.06	13.5	
Lake Overholser	F.07	14.5	
Oklahoma River	F.08	17.5	S
Oklahoma River	F.09	18	S
Oklahoma River	F.10	1.5	N
Oklahoma River	F.11	19	S
Oklahoma River	F.12	2.5	N
Oklahoma River	F.13	20	S
Oklahoma River	F.14	20.5	S
Oklahoma River	F.15	3.5	N
Oklahoma River	F.16	21	S
Oklahoma River	F.17	4.5	N
Oklahoma River	F.18	22	S
Oklahoma River	F.19	22.5	S
Oklahoma River	F.20	5.5	N
Oklahoma River	F.21	23	S
Oklahoma River	F.22	6.5	N
South Grand Blvd.	F.23	0.5	
South Grand Blvd.	F.24	2	
South Grand Blvd.	F.25	3	
South Grand Blvd.	F.26	3.5	
South Grand Blvd.	F.27	4.5	
South Grand Blvd.	F.28	7.5	
South Grand Blvd.	F.29	8	



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# *Guidelines & Maintenance*

# MUTCD Guidance — Typical Placement for Vehicular Signs

## Chapter 2A. General

### Section 2A.16 Standardization of Location Guidance:

04 Signs should be located on the right-hand side of the roadway where they are easily recognized and understood by road users. Signs in other locations should be considered only as supplementary to signs in the normal locations, except as otherwise provided in this Manual.

08 With the increase in traffic volumes and the desire to provide road users regulatory, warning, and guidance information, an order of priority for sign installation should be established.

### Support:

09 An order of priority is especially critical where space is limited for sign installation and there is a demand for several different types of signs. Overloading road users with too much information is not desirable.

### Guidance:

10 Because regulatory and warning information is more critical to the road user than guidance information, regulatory and warning signing whose location is critical should be displayed rather than guide signing in cases where conflicts occur. Community wayfinding and acknowledgment guide signs should have a lower priority as to placement than other guide signs. Information of a less critical nature should be moved to less critical locations or omitted.

### Option:

11 Under some circumstances, such as on curves to the right, signs may be placed on median islands or on the left-hand side of the road. A supplementary sign located on the left-hand side of the roadway may be used on a multi-lane road where traffic in a lane to the right might obstruct the view to the right.

### Guidance:

12 In urban areas where crosswalks exist, signs should not be placed within 4 feet in advance of the crosswalk (see Drawing D in Figure 2A-3).

## Chapter 2D. Guide Signs—Conventional Roads

### Section 2D.01 Scope of Conventional Road Guide Sign Standards

#### Standard:

01 The provisions of this Chapter shall apply to any road or street other than low-volume roads (as defined in Section 5A.01), expressways, and freeways.

### Section 2D.40 Location of Destination Signs

#### Guidance:

01 When used in high-speed areas, Destination signs should be located 200 feet or more in advance of the intersection, and following any Junction or Advance Route Turn assemblies that might be required. In rural areas, the minimum distance between a Destination sign and either an Advance Route Turn assembly or a Junction assembly should be 200 feet.

#### Option:

02 In urban areas, shorter advance distances may be used.

03 Because the Destination sign is of lesser importance than the Junction, Advance Route Turn, or Directional assemblies, the Destination sign may be eliminated when sign spacing is critical.

#### Support:

04 It is more important that guide signs be readable, and that the information and direction displayed thereon be readily understood, at the appropriate time and place than to be located with absolute uniformity.

Figure 2A-3. Typical Locations at Intersections

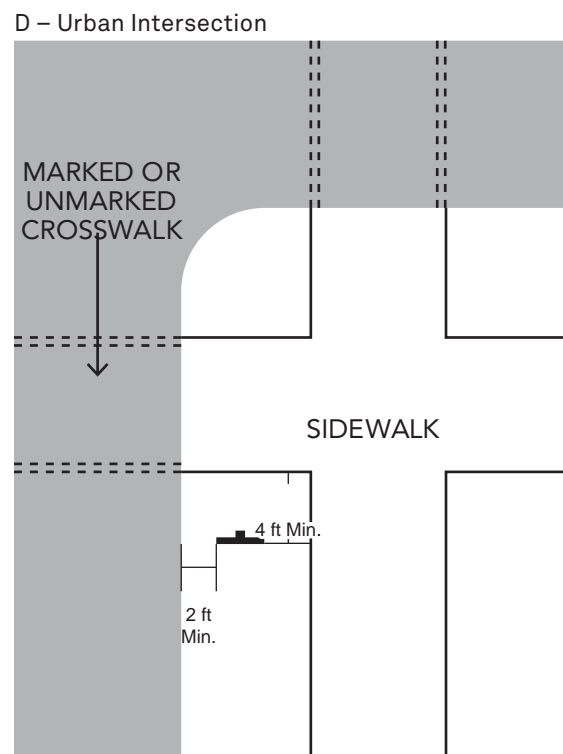
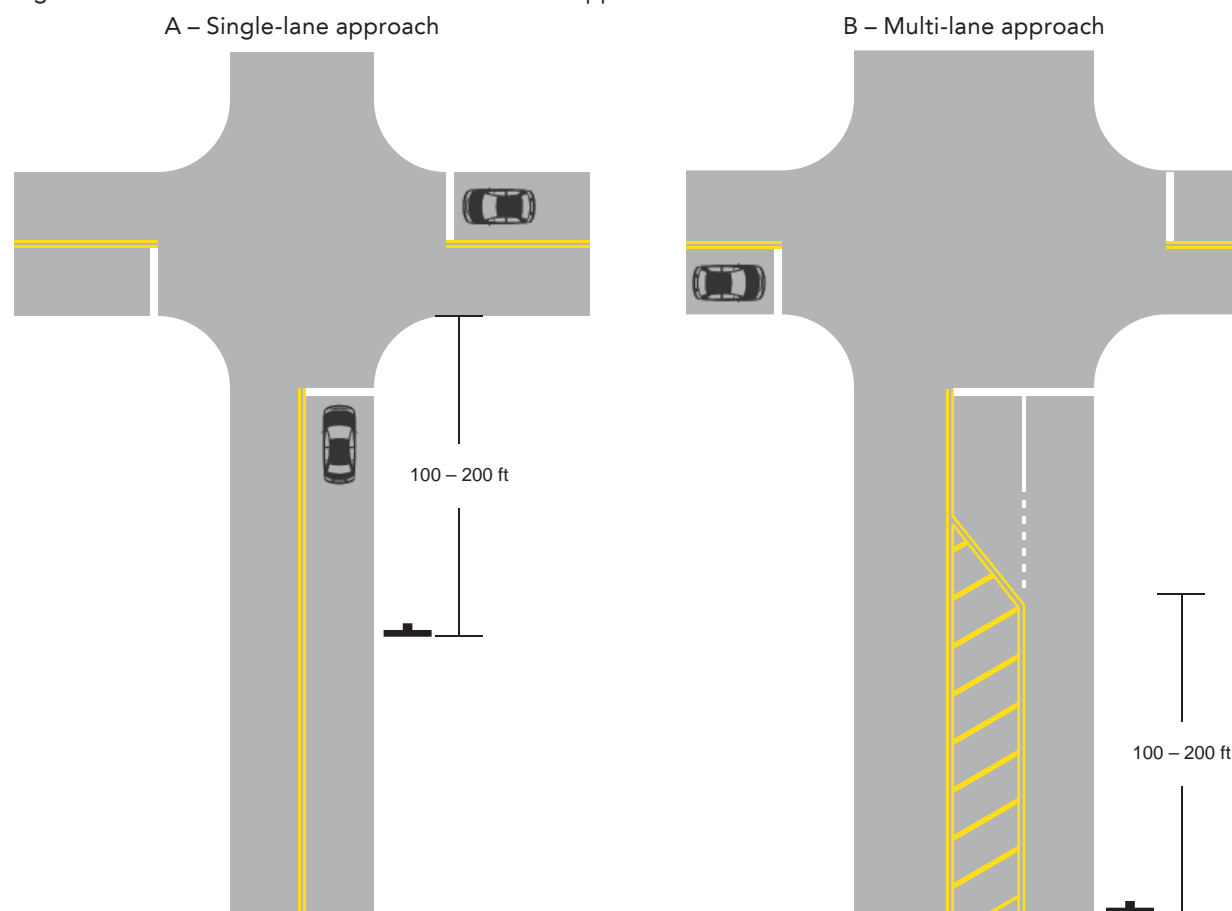


Figure 2A-4. Relative Locations on an Intersection Approach



## Standards

- All signs shall be located on the right side of the road and facing the direction of traffic.
- Regulatory and warning signs have priority and take precedence over wayfinding signage. Wayfinding signage may need to be relocated in instances where they obstruct or impede regulatory signage.
- Wayfinding signage shall not impede, restrict or obstruct the driver's view, particularly when travelling through or making turns at intersections.
- Wayfinding signage shall be placed in locations that avoid visual obstructions such as trees, signs and other elements along the streetscape.
- Wayfinding signage shall be located to minimally obstruct the scenic value of the area.



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# MUTCD Guidance — Lateral Offset for All Signs (Vehicular, Bicycle, Pedestrian)

## Chapter 2A. General

### Section 2A.19 Lateral Offset

02 Post-mounted sign and object marker supports shall be crashworthy (breakaway, yielding, or shielded with a longitudinal barrier or crash cushion) if within the clear zone.

*Option:*

10 On conventional roads in areas where it is impractical to locate a sign with the lateral offset prescribed by this Section, a lateral offset of at least 2 feet may be used.

11 A lateral offset of at least 1 foot from the face of the curb may be used in business, commercial or residential areas where sidewalk width is limited or where existing poles are close to the curb.

*Guidance:*

12 Overhead sign supports and post-mounted sign and object marker supports should not intrude into the usable width of a sidewalk or other pedestrian facility.

### Section 2A.20 Orientation

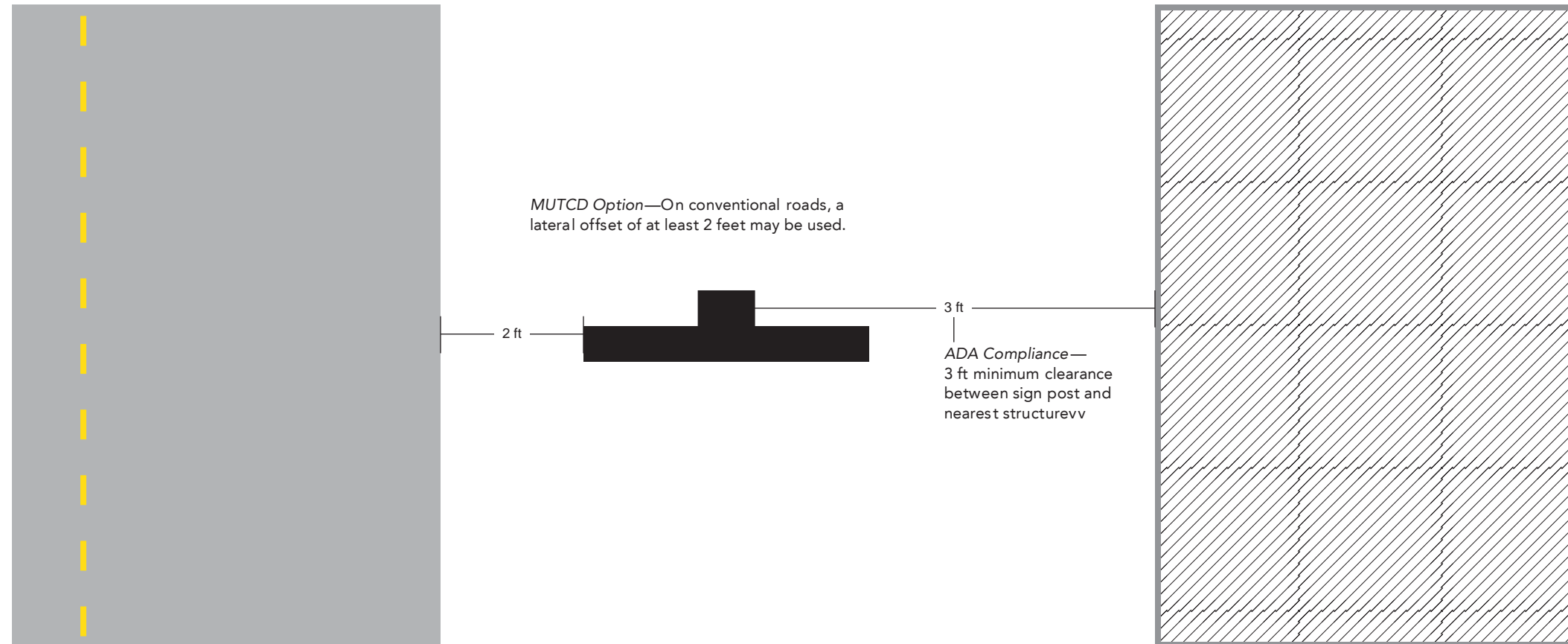
*Guidance:*

01 Unless otherwise provided in this Manual, signs should be vertically mounted at right angles to the direction of, and facing, the traffic that they are intended to serve.

02 Where mirror reflection from the sign face is encountered to such a degree as to reduce legibility, the sign should be turned slightly away from the road. Signs that are placed 30 feet or more from the pavement edge should be turned toward the road. On curved alignments, the angle of placement should be determined by the direction of approaching traffic rather than by the roadway edge at the point where the sign is located.

*Option:*

03 On grades, sign faces may be tilted forward or back from the vertical position to improve the viewing angle.



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# Maintenance Recommendations

## Operations and Management

- Management of the wayfinding system should be regulated by the group responsible for decisions regarding funding, maintenance and expansion of the program. A point person or project manager should be assigned to oversee regular maintenance of the system.
- Maintenance activities should consider proper position, cleanliness, legibility, and daytime and nighttime visibility. Damaged or deteriorated signs, gates, or object markers should be replaced.
- To assure adequate maintenance, a schedule for inspecting (both day and night), cleaning, and replacing signs, gates, and object markers should be established.
- Due to the customized aspect of the signs, the in-house sign shop may be limited to changing graphics. An attic stock of materials or parts is recommended to be included in the initial system implementation. These materials or parts include painted panels, brackets and poles.
- Steps should be taken to see that weeds, trees, shrubbery, and construction, maintenance, and utility materials and equipment do not obscure the face of any sign or object marker.
- A regular schedule of replacement of lighting elements for illuminated signs should be maintained.

## Cleaning

- The signage system should be cleaned annually, however, twice a year is ideal.
- All signs should be cleaned with a mild cleanser and water.
- Applying automotive wax or paint sealant to all painted surfaces is optional, but ideal for maintaining life of the paint finish.
- Graffiti should be removed as soon as possible with the most effective results coming within 24 hours. It is possible to remove graffiti after 24 hours though it becomes more difficult to remove and may leave more permanent damage.
- Various solvents have different effects on various graffiti. Test an inconspicuous area of the sign before full cleaning. Mild non-abrasive solvents such as mineral spirits should be tested initially, then progress to more aggressive solvents such as acetone, lacquer thinner or standard paint reducers.
- Sticker removal can be cleaned with common adhesive removal products such as Goo Gone or Goof Off.

## Vegetation and Trees

- Most tree roots are found in the top 23” of soil and often grow out further than the trees height. If roots are damaged the tree may suffer irreversible harm, so care must be taken when excavating in the vicinity of trees for sign installation.
- Trimming of street trees near or around signage should be done regularly to avoid visual obstructions of the sign.

	0-4 Years	5-9 Years	10-15+ Years
Planning & Design	<ul style="list-style-type: none"> <li>• Evaluation of the system should be done in the first year for effectiveness and identify any issues.</li> <li>• Minor corrections and adjustments to help the system operate more efficiently. This could include additional signs, or adjustments based on new circulation patterns.</li> </ul>	<ul style="list-style-type: none"> <li>• Review planned or existing projects to update or expand the signage system. Identify new destinations or facilities which have closed.</li> <li>• Additions and deletions of destinations and/or messages and overall routing based on physical changes to the campus.</li> </ul>	<ul style="list-style-type: none"> <li>• Review planned or existing projects to update or expand the signage system. Identify new destinations or facilities which have closed.</li> <li>• Review new circulation/routing and construction projects that may effect the system.</li> <li>• Review consistency with the brand identity and marketing initiatives.</li> </ul>
General Maintenance	<ul style="list-style-type: none"> <li>• Annual Cleaning</li> <li>• Review all signs for damage or vandalism.</li> <li>• Repair or replace damaged signs— new panels, tightening of fasteners, replacement parts due to vandalism or auto damage.</li> <li>• Relocation may be necessary based on problematic sign locations.</li> </ul>	<ul style="list-style-type: none"> <li>• Annual Cleaning</li> <li>• Review all signs for wear, damage or vandalism.</li> <li>• Repair or replace damaged signs— new panels, tightening of fasteners, replacement parts due to vandalism or auto damage.</li> <li>• Materials begin to fade, warranties expire and a more concentrated effort is required to maintain the system. New panels, replacement parts, and sign replacement may be necessary.</li> <li>• Relocation may be necessary based on new routing or circulation.</li> </ul>	<ul style="list-style-type: none"> <li>• Annual Cleaning</li> <li>• Materials begin to reach their life span. Review integrity of materials.</li> <li>• Full sign replacement may be necessary for some signs especially if they have not been maintained in the past.</li> <li>• Relocation may be necessary based on new routing or circulation.</li> </ul>
Material Durability	<ul style="list-style-type: none"> <li>• Retroflective vinyl &gt; 5-7 years</li> <li>• Paint &gt; 10+ years</li> </ul>	<ul style="list-style-type: none"> <li>• Retroflective vinyl &gt; 5-7 years &gt; Individual signs may need replacement if reflectivity is assessed to be ineffective.</li> <li>• Paint &gt; 10+ years &gt; Paint typically holds up, but fading may occur. &gt; Individual signs may need touch up or replacement if fading occurs.</li> </ul>	<ul style="list-style-type: none"> <li>• Retroflective vinyl &gt; Reflectivity becomes less effective. Vinyl may need replacement.</li> <li>• Paint &gt; Fading occurs. &gt; Full sign replacement may be necessary.</li> </ul>



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