

## INVITATION TO BID

Sealed Bids for the following will be received by the Procurement Manager until 4:00 P.M., Eastern Time, January 9, 2019, and at that time publicly opened in the Council Room, City Hall located at 225 W. Center St., Kingsport, TN. All proposals will be considered for award or rejection at a later date.

PROJECT: Exterior Signage Fabrication – Kingsport Greenbelt Phase I

Documents for the above referenced item are available online at <https://www.kingsporttn.gov/city-services/purchasing/>. Interested parties may also contact the Procurement Department at (423) 229-9419.

By submission of a signed proposal bid, the bidder certifies total compliance with Title VI and Title VII of the Civil Rights Act of 1964, as amended, and all regulations promulgated thereunder.

No submitted bids may be withdrawn for a period of sixty (60) days after the scheduled closing time of the receipt of bids. All bids shall be signed, sealed and addressed to the Procurement Manager, City of Kingsport, 225 W. Center St., Kingsport, TN 37660 and marked “Exterior Signage Fabrication”. The City by its governing regulations reserves the right to accept or reject any or all bids received, to waive any informalities in bidding and to re-advertise.

PUB 1T: 11/11/18

Tilden J. Fleming  
City Manager

**COMPLIANCE AFFIDAVIT(S) (TOTAL OF 2 PAGES)**

**THIS COMPLIANCE AFFIDAVIT MUST BE SIGNED, NOTARIZED AND INCLUDED WITH ALL BIDS – FAILURE TO INCLUDE THIS FORM WITH THE BID SUBMITTED SHALL DISQUALIFY THE BID FROM BEING CONSIDERED.**

**VENDOR:** \_\_\_\_\_

**CONFLICT OF INTEREST:**

1. No Board Member or officer of the City of Kingsport or other person whose duty it is to vote for, let out, overlook or in any manner superintend any of the work for the City of Kingsport has a direct interest in the award of the vendor providing goods or services.
2. No employee, officer or agent of the grantee or sub-grantee will participate in selection, or in the award or administration of an award supported by Federal funds if a conflict of interest, real or apparent, would be involved. Such a conflict would arise when the employee, officer or agent, any member of their immediate family, his or her partner, or an organization, which employs, or is about to employ, any of the above, has a financial or other interest in the firm selected for award.
3. The grantee's or sub-grantees officers, employees or agents will neither solicit nor accept gratuities, favors or anything of monetary value from vendors, potential vendors, or parties to sub-agreements.
4. By submission of this form, the vendor is certifying that no conflicts of interest exist.

**DRUG FREE WORKPLACE REQUIREMENTS:**

5. Private employers with five or more employees desiring to contract for construction services attest that they have a drug free workplace program in effect in accordance with TCA 50-9-112.

**ELIGIBILITY:**

6. The vendor is eligible for employment on public contracts because no convictions or guilty pleas or pleas of nolo contendere to violations of the Sherman Anti-Trust Act, mail fraud or state criminal violations with an award from the State of Tennessee or any political subdivision thereof have occurred.

**GENERAL:**

7. Vendor fully understands the preparation and contents of the attached offer and of all pertinent circumstances respecting such offer.
8. Such offer is genuine and is not a collusive or sham offer.

**IRAN DIVESTMENT ACT:**

9. Concerning the Iran Divestment Act ( TCA 12-12-101 et seq.), by submission of this bid/quote/proposal, each vendor and each person signing on behalf of any vendor certifies, and

in the case of a joint bid/quote/proposal, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each vendor is not on the list created pursuant to § 12-12-106.

**NON-COLLUSION:**

10. Neither the said vendor nor any of its officers, partners, owners, agents, representatives, employees or parties interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other responder, firm, or person to submit a collusive or sham offer in connection with the award or agreement for which the attached offer has been submitted or to refrain from making an offer in connection with such award or agreement ,or collusion or communication or conference with any other firm, or, to fix any overhead, profit, or cost element of the offer price or the offer price of any other firm, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the City of Kingsport or any person interested in the proposed award or agreement.
11. The price or prices quoted in the attached offer are fair, proper and not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the firm or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

**BACKGROUND CHECK REQUIREMENT FOR SCHOOL SYSTEM SUPPLIERS:**

12. In submitting this bid/quote/proposal, you are certifying that you are aware of the requirements imposed by TCA § 49-5-413 (d) to conduct criminal background checks through the Tennessee Bureau of Investigation and the Federal Bureau of Investigation on yourself and any of your employees who may come in direct contact with students or who may come on or about school property anytime students are present. You are further certifying that at no time will you ever permit any individual who has committed a sexual offense or who is a registered sex offender to come in direct contact with children or to come on or about school property while students are present.

The undersigned hereby acknowledges and verifies that the response submitted to this solicitation is in full compliance with the applicable laws/listed requirements.

SIGNED

BY: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

SUBSCRIBED AND SWORN TO BEFORE ME THIS DATE: \_\_\_\_\_

BY (NOTARY PUBLIC): \_\_\_\_\_

MY COMMISION EXPIRES ON: \_\_\_\_\_

**BID DOCUMENT:**

EXTERIOR SIGNAGE  
FABRICATION  
Kingsport Greenbelt Phase 1  
City of Kingsport, TN

**I. Introduction**

**Overview and Statement of Design Intent**

The City of Kingsport has worked with Corbin Design to develop a comprehensive and cohesive wayfinding and signage program to direct motorists and pedestrians to city destinations and amenities. The key goals of this project were the logistical determination of signage locations and creation of a graphic environment that is clear, understandable, informative, friendly and helpful to the Kingsport visitor and resident.

The result is the system described on the accompanying materials, a system consisting of aluminum sign types, both post-and-panel and ground-mounted on masonry bases. All sign assemblies/poles/bases shall be NCHRP350 crash rated in accordance with Federal Highway Administration. This largely non-illuminated system is composed of both vehicular and pedestrian sign types.

**A. City**

City of Kingsport  
Contact:

Procurement Manager  
225 W Center Street  
Kingsport, TN 37660  
423-229-9419  
Fax: 423-224-2433

## II. Project Schedule

### A. Bid Submittal

Bids are to be submitted on or before 4:00 p.m., on January 9, 2019. Any bids received after this date will be rejected.

Two copies of the bid and requested samples are to be submitted to the City at the above address.

Bids shall remain valid for a period of sixty (60) days from submission.

### B. Bidding and Completion Schedule

Bid documents issued	November 11, 2018
Last Day for questions	January 2, 2019
Addenda Issued on our Website	January 4, 2019 by 4:00 PM
Bid form and bid submittals due	January 9, 2019
Contract awarded	Within 30 Days
Project submittals creation	2 weeks after award
Project submittals review	4 weeks after award
Fabrication	12 to 14 weeks after award

Submittal to City of the enclosed bid forms will acknowledge Bidder's agreement with this time schedule. If you cannot make the completion schedule, please note this on the bid form section 1, Bidder's Proposed Schedule for the Work.

## III. Bid Package

### A. Contents

The items listed below are available via the City's Procurement Department internet site:  
<https://www.kingsporttn.gov/city-services/purchasing/>

1. Bid Document, Bid Form & Compliance Affidavit(must be Signed & Notarized)
2. Design intent and specifications of each sign type
3. Sign location plan (for bidding purposes only)
4. Sign message schedule (for bidding purposes only)

### B. Explanation to Bidders

Any explanation desired by a Bidder regarding the meaning or interpretation of the bid package must be requested in writing to the City at above address by January 2, 2019, to allow sufficient time for a reply to reach all prospective Bidders before the submission of their bid. Any information given to a prospective Bidder concerning the bid package will be furnished to all prospective Bidders as an addendum. Receipt of an addendum by a Bidder must be acknowledged on the bid form.

### **C. Modification and Withdrawal of Bid**

Prior to the bid submittal deadline, any bid submitted may be modified, withdrawn or resubmitted by notifying the City. Withdrawal notices and revised bids shall be submitted in writing and must be received on or before the bid submittal deadline. No bid may be modified, withdrawn, or cancelled by the Bidder, except upon the express permission of the City.

### **D. Experience**

The City requires that all Bidders must have sufficient experience in projects of this type, size and complexity in order to submit a bid for the project.

Bidders must provide the names of three projects of similar scope and size in the field of architectural exterior signage. Please provide the name of the individual for each project that can discuss the working relationship with your company, together with their address, telephone number and a brief description of the project. The City may elect to contact these individuals as part of its evaluation of the bid.

It is the intent of the City to award a contract to the most qualified Bidder, provided the bid has been submitted in accordance with the requirements of the bid package and does not exceed the funds available. The City shall have the right to waive any informality or irregularity in any bid(s) received and to accept the bid(s) which, in its judgment, is in its own best interests. The City reserves the right to reject any and all bids for any reason. The criteria the City will use in evaluating the bids are as follows (listed in no particular order of priority):

- quality, appearance and adherence to the specifications of the samples submitted;
- bidder's schedule for the work;
- unit sign cost;
- total project cost;
- reputation of the firm in completing past work (references);
- demonstrated understanding of the project; and
- review of sample shop drawings and sample keystroking documents.

### **E. Familiarity with Project Premises and Conditions**

Prior to submitting a bid, the Bidder is invited to inspect the work site and its surroundings. Although the Bidder is not required to make such an inspection before bidding, for the purposes of the contract it shall be conclusively presumed that by failing to make such an inspection, the bidder has waived the right to later claim extra payment or time extensions for conditions which would have been evident had the site been inspected.

## **IV. Submittal Requirements**

### **A. Bid Submittals**

All bid submittals shall be sent to the City at the above address. **Note: bid forms submitted without the requested samples will be rejected.** The following items are required to be submitted with the bid form:

**1. Typical Existing Shop Drawing**

Detailed shop drawing for a previously fabricated sign that is similar in construction to GX-1. Shop drawing shall reflect the method of fabrication and materials used, mounting techniques and hardware, internal construction and illumination if necessary, and any base and below-grade details required.

**2. Keystroking Proofs**

A sample proofing document of final production keystroking you have created for a previous project for the sign message for a sign similar in type to the GX-1. Keystroke proofs are to be in-position composition proofs. Keystrokes are to be scaled but not full sized.

**3. Aluminum Seam Sample**

Per Section VI.F.7 below, all sign faces smaller than 8' x 20' are to be fabricated from a single sheet of aluminum. If the Bidder is unable to meet this specification of single sheet fabrication, the Bidder must supply an additional sign sample with your bid return showing the shop's standard seaming practice.

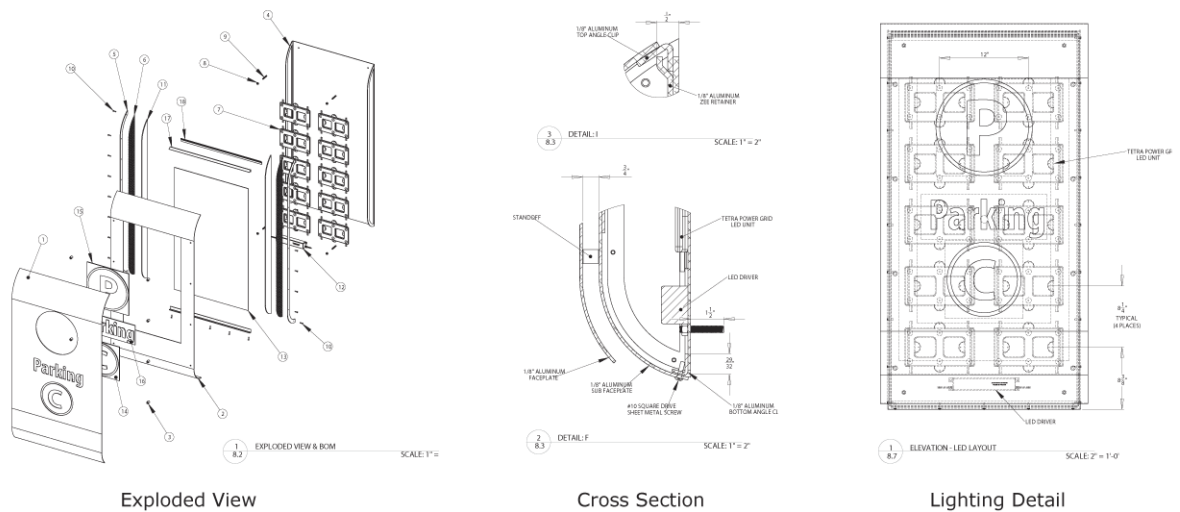
**B. Pre-fabrication Submittals**

Upon award of contract, the successful Bidder must submit a copy of the following items to the City for their review prior to fabrication proceeding:

1. Detailed engineered shop drawings for each sign type are to be submitted as electronic PDF no larger than 11"x 17". Final Shop Drawings are to be stamped by an Engineer licensed in the state of the project. The shop drawings for each sign type shall illustrate/describe the following:
  - i. Elevations and cross sections – front, sides, top and back (if necessary); side sections; internal structure section/details; enlarged details such as of extrusions, push-through letter mounting, mounting plate, etc.; with all final dimensions and call-outs for:
    - o Components – construction details/information related to individual elements
    - o Materials – color, type, gauge, and thickness (including substrates and overlays)
    - o Finishes – color, type of product, manufacturer, and sheen
    - o Fonts, graphics specifications and message fields
  - ii. Exploded view (optional) – isometric view with components, materials, and finishes.
  - iii. Cross-section of corners – one illustration for each corner condition. Items to be illustrated: seams, joints, layers, internal support and fasteners.

- iv. Mounting/installation details – provide foundation cross-sections (including hardware), bracket/post details, elevations, materials, finishes and fasteners.
- v. Electrical details are to be provided for all elements that require electricity. Specific items to be listed are:
  - o Light source and/or fixture type and manufacturer
  - o Power supply (transformer)
  - o Amperage and voltage per sign
  - o Electrical service required (source)
  - o Lighting detail – provide an internal view of light fixtures, LED layout, transformers, external cut-off switch, light sensor, and timer.
- vi. Engineering for wind load
- vii. Removable panels (where applicable)
- viii. Identify any dimensional or other changes in the overall sign required by virtue of the fabrication materials, techniques and/or engineering.
- ix. All sign assemblies/bases/poles/ shall be NCHRP350 crash rated in accordance with Federal Highway Administration.

**Sample drawings**



For the first release, we request that all drawings be received at one time. Future revised drawings can be received as they are completed.

2. Two (2) samples of each material (paint, vinyl, acrylic, veneer, masonry, metal, etc.) to be used on the sign using actual substrate materials. One sample will be returned, one kept in the City's records.
3. A proofing document of final production keystroking for all sign messages to verify line breaks, character and word spacing, and interline spacing. The proofs are to be scaled production art files, not full sized. Each layout is to be identified with the sign number.



4. If large format insert production is required for guide signs, directories, corridor/linear maps or other, successful Bidder must submit a 12" x 12" to-scale sample segment of the final insert product to the City for approval before producing the final inserts.
5. Successful Bidder must submit a schedule detailing how far in advance artwork will be required for printed maps and directories.
6. Successful Bidder must provide weekly status reports to the City detailing fabrication and installation progress and the expected completion schedule.

### **C. After-installation Submittals**

Maintenance instructions and manuals for all sign components (lighting, paint, etc.), along with amended shop drawings, as-installed sign location plans and approved keystroke documents shall be supplied by successful Bidder to City upon completion of punchlist items.

## **V. Award of Bid**

### **A. Documents Provided to Successful Bidder**

The following is a list of the documents that will be provided to the successful Bidder by the City.

1. Outlined Illustrator files of the Design Intent Drawing for each sign type (created in Adobe Illustrator).
2. A PDF file of the Sign Message Schedule.
3. PDF files of the Sign Location Plan(s).

## **VI. Fabrication Specifications**

### **A. Quality Standards**

The materials, products, equipment and performance specifications described within, establish a standard of required function, dimension, appearance, performance and quality to be met by the successful Bidder.

### **B. Structural Design**

Details on design intent drawings indicate a design approach for sign structure but do not necessarily include all fabrication details required for the complete structural integrity of the signs, including consideration for static, dynamic and erection loads during handling, erecting, and utilities at the installed locations, nor do they necessarily consider the preferred shop practices of the individual Bidders. Therefore, it shall be the responsibility of the successful Bidder to perform the complete structural design and engineering of the signs and to incorporate all the safety features necessary to adequately support the sign for its

intended use and purpose and to protect the City. All sign assemblies/bases/poles shall be NCHRP350 crash rated in accordance with Federal Highway Administration. Successful Bidder shall also be responsible for ensuring that all signs meet local and state codes.

### **C. Vandalism Design**

Fabrication and installation design is to withstand severe abuse and souvenir theft vandalism, but not less than the equivalent of resisting simple hand implements and tools (screwdrivers, knives, coins, keys, and similar items), and adult physical force. All hardware and fasteners within reach shall be vandal resistant.

### **D. Substitution**

No substitution will be considered unless the City has received written request for approval by January 2, 2019. Successful Bidder may recommend equal or better equipment or method, but will be required, prior to the bid submittal, to provide full documentation establishing such a substitution's equality or superiority as measured in the following:

- compliance with the visual design intent;
- cost;
- ease of maintenance; and
- performance.

The burden of proof of the merit of the proposed substitute is upon the Bidder. The City's decision of approval or disapproval of a proposed substitution shall be final. All approved substitutions approved must be listed out on the Bid Form. A cost differential for this substitution must be included in the same location.

### **E. Material Handling**

The successful Bidder is to pack, wrap, crate, bundle, box, bag, or otherwise package, handle, transport, and store all fabricated work as necessary to provide protection from damage by every cause. Successful Bidder shall provide clear and legible identifying information on all product packaging to ensure proper on-site identification and installation.

### **F. Sign Specifications: Construction Methodology**

The drawings call for a variety of fabrication techniques. Successful Bidder is given leeway to fabricate the signs to meet the intent of the designs depicted by the drawings.

1. All sign assemblies/bases/poles shall be NCHRP350 crash rated in accordance with Federal Highway Administration.
2. Because different systems of extrusions may result in slightly different dimensional requirements, the total height and width dimensions described in the sign construction on the drawings may be considered "nominal" for the purposes of bid submittal.
3. Sign faces are to be fabricated using aluminum plate of varying thicknesses, as specified on design intent drawings, with a minimum thickness of .125 inches unless otherwise noted.

4. Sign cabinet seams shall be sealed to ensure they are watertight.
5. All finishes are to be satin finish, free from fading, peeling or cracking. Paint preparation of all exterior metal surfaces of the sign to include removal of all scratches and imperfections, sanding and chemical etching. Substrate cleaning, preparation, paint application and paint thickness to be in strict compliance with Matthews Paint or AkzoNobel published recommendations. Acceleration of the drying process is not allowed.
6. Except where approved otherwise by City, conceal fasteners.
7. Any sign faces smaller than 8' by 20' are to be fabricated from 1 piece of seamless material. If seams are to be used, a sample showing the shop's seam practice is to be provided as part of the bid submittal for review in addition to the sign sample.
8. Non-welded joints between various portions of signs must have a tight, hairline-type appearance, without gaps. Provide sufficient fastenings to preclude looseness, racking, or similar movement.
9. Provide drain holes as needed to prevent accumulation of water within signs. Holes must be inconspicuous and be in inconspicuous locations; holes must be located such that drainage does not occur onto signs, or other surfaces subject to staining. Provide internal system of baffles to prevent "light leaks" through drain holes of illuminated signs. Provide color-coordinated insect screening over drain holes.
10. Non-illuminated sign faces are to have lettering and graphics created as surface-applied vinyl typography using Avery or 3M exterior grade, minimum 5-year warranty unless otherwise noted in the design intent drawings.
11. Fiberglass panels with embedded artwork are to be fabricated using a 1/8" thick fiberglass panel with permanently embedded digital graphics (printed at a minimum of 1200 DPI using exterior inks). The panel must be a solid, one-piece panel with all graphic elements inseparable from the fiberglass in which they are embedded (Pannier, 1-800-544-8428).
12. Visible metal joints must adhere to a fit tolerance of .01".
13. Unlit channel letter faces must be 3/16" aluminum. Channel letter returns must be .080" aluminum.
14. Wind Load: Signs, banners and mounting devices shall be engineered to withstand a minimum 30-psf wind load normal to the sign, or greater as per local code, in addition to the weight of the sign. The successful Bidder shall determine

appropriate method of anchoring signs to the locations specified to meet these requirements as well as all local code requirements.

## **VII. Warranty**

### **A. Signage Warranty**

The successful Bidder is to provide a written five (5) year full replacement warranty to the City that all signs will be free of defects due to craft work including, but not limited to:

1. Bubbling, chalking, rusting or other disintegration of the sign panel, graphics or of the edges.
2. Corrosion appearing beneath paint and vinyl surfaces, on sign panels, brackets, posts or other support assemblies (except as an obvious result of vandalism or other external damage).
3. Corrosion of fasteners.
4. The assemblies not remaining true and plumb on their supports.
5. Fading, chalking and discoloration of the colors and finishes within the vinyl and paint manufacturer's stated warranty period.
6. Peeling, delamination or warping ("oil canning").
7. Repair and reinstallation of signage due to failed mountings.

Successful Bidder shall also extend in writing to the City all manufacturers' warranties for materials and components used within the signs. It is the Successful Bidder's responsibility to obtain extended manufacturer warranties on all paint and powder coat applications.

### **B. Repair or Replacement**

Without additional cost to the City, the successful Bidder shall repair or replace, including installation, any defective signs or hardware which develop during the warranty period and repair any damage to other work due to such imperfections. The successful Bidder will be required to fully replace all signs that are in error relative to the working documents (sign message schedule and sign type drawings) that will be submitted to the successful Bidder upon award of contract.

## **VIII. Bid Form and Definition**

### **A. Bid Form**

A bid form is provided with this document. Quantities shown on the bid form should be close to the final quantities but are provided for bid purposes only. It will be the successful Bidder's responsibility to verify the final counts.

**B. Cost Per Unit**

A unit cost price is required to enable the City to purchase and install additional signs within the next calendar year at the same price. Also, if the number of signs purchased initially increases or decreases, the unit cost provided shall be the basis for any cost adjustments.

**C. Subsequent Year Pricing**

City may need to purchase additional sign(s) in the next 2 – 3 years. Filling out the Bidder's Statement of Subsequent Year Pricing, at the end of this document, will help the City budget and plan accordingly and is considered to be binding on the Bidder.

**D. Miscellaneous**

The City shall provide and confirm the mileage information to be used on applicable signs including but not limited to kiosk maps and mile markers.

**BID FORM**

Date: \_\_\_\_\_

To: *City of Kingsport Procurement  
Department*

From: \_\_\_\_\_ (name of Bidder)  
\_\_\_\_\_ (address of Bidder)  
\_\_\_\_\_  
\_\_\_\_\_ (phone number of Bidder)

For: *Greenbelt Wayfinding Signage  
City of Kingsport, TN*

The undersigned, having familiarized themselves with project conditions and having examined and become fully cognizant of the bid package and all addenda subsequently issued, hereby agrees to furnish all labor, materials, equipment, appliances, fixtures, and incidentals required by the bid package for the construction of the aforementioned project, and to conform to requirements as set forth in the bid package for the amounts set forth in this bid form. The signing of this document and award of contract or purchase order will signify complete understanding by the awarded Bidder of all items detailed in this bid package. The particular items noted herein, detailing fabrication, installation, product and fabricator performance, are understood to be part of any contract(s) from City.

Pursuant to the requirements as specified, the undersigned submits the following base bid, which includes all applicable taxes (if any), overhead, and profit.

**ADDENDA:**

Please acknowledge all addenda received.

Addendum Number	_____	Dated	_____
Addendum Number	_____	Dated	_____
Addendum Number	_____	Dated	_____
Addendum Number	_____	Dated	_____

\_\_\_\_\_  
Name and Company

\_\_\_\_\_  
Signed Date

**BID PROPOSAL FOR  
EXTERIOR SIGNAGE FOR  
City of Kingsport, Tennessee  
Greenbelt Wayfinding**

Please provide unit costs for all sign types in the program.

Sign Type	Description	Quantity	Unit Cost for Bid	Extended Cost for Bid
Gx-1/1b	Vehicular Access Trailblazer - 4" text	20		
Gx-1a	Vehicular Access Trailblazer - 6"	7		
Gx-5	Urban Pedestrian Trailblazer	19		
Kx-1	Trailhead Map Kiosk, Large	4		
Kx-2	Trailhead Map Kiosk, Small	2		
Ix-1/a	Vehicular Identification, existing base	2		
Ix-3	Vehicular Identification, no base	1		

**Total Cost for Fabrication of Signs.....\$** \_\_\_\_\_

**Shipping Costs.....\$** \_\_\_\_\_

**Grand Total Cost.....\$** \_\_\_\_\_

COST FOR BID ALTERNATE #1 (INCLUDE ADDITIONAL SHIPPING COSTS).....\$ \_\_\_\_\_

COST FOR BID ALTERNATE #2 (INCLUDE ADDITIONAL SHIPPING COSTS).....\$ \_\_\_\_\_

*(choose one of the below items and the corresponding header)*

\*List below all items, including their costs, which are not included in the Grand Total Cost above (i.e., engineered drawings, footings, pre-bid site visit, etc.).

\*It is assumed that all requirements of this bid are incorporated into the costs quoted above (including engineered drawings, footings, site visits, etc). If there are any items above and beyond the bid scope that you have included in the costs, please list them below.

Items NOT Included and their costs: (OR) Items included outside of bid scope and their costs:

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Bidder's Initials \_\_\_\_\_





**BID PROPOSAL FOR  
EXTERIOR SIGNAGE FOR  
City of Kingsport, Tennessee  
Greenbelt Wayfinding**

**1. Bidder's Proposed Schedule for the Work** (refer to section II.B.)

Project submittals will be submitted by: \_\_\_\_\_ (Date).

*Note: Allow two weeks at this point for review by Designer and Owner.*

Signs will be fabricated by: \_\_\_\_\_ (Date).

**2. Bidder's Experience on Other Similar Exterior Projects** (refer to section III.D.)

Project	Contact and Phone Number	Dollar Amount	% Complete
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**3. Bidder's Statement of Subsequent Year Pricing** (refer to section IX.C.)

Owner will be able to purchase additional signage for the program during the period of one year from the signing of a contract at the unit prices listed on this bid form. In subsequent years, the percentage increase for unit pricing will be as follows:

Year Two + \_\_\_\_\_ % above bid prices

Year Three + \_\_\_\_\_ % above bid prices

**4. Subcontractor's Name and Purpose** (refer to section V.D.)

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**5. Material Substitutions, Explanation and Cost Differential** (refer to section VI.D.)

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Bidder's Initials \_\_\_\_\_



**BASE BID**

<i>Type of Sign</i>	<i>Sign Count</i>	<i>Reference</i>	
Gx-1/1b Vehicular Trail Access Trailblazer (4" text)	20	Sign #01, Page 1 Sign #01a, Page 1 Sign #02, Page 1 Sign #02a, Page 2 Sign #14, Page 8 Sign #15, Page 9 Sign #19, Page 10 Sign #20, Page 12 Sign #35a, Page 17 Sign#37, Page 18 Sign #37a, Page 18 Sign #37b, Page 18	Sign #42, Page 22 Sign #43, Page 23 Sign #59, Page 30 Sign #60, Page 30 Sign #78, Page 36 Sign #82, Page 38 Sign #87, Page 40 Sign #89, Page 42
Gx-1a Vehicular Trail Access Trailblazer (6" text)	7	Sign #19a, Page 11 Sign #19b, Page 11 Sign #31, Page 15 Sign #32, Page 15 Sign #83, Page 39	Sign #84, Page 39 Sign #85, Page 39
Gx-5 Urban Pedestrian Trailblazer (existing post)	19	Sign #44b, Page 23 Sign #45, Page 24 Sign #45a, Page 24 Sign #46, Page 24 Sign #46a, Page 25 Sign #47, Page 25 Sign #47a, Page 25 Sign #50, Page 26 Sign #51, Page 27 Sign #52, Page 27	Sign #53, Page 27 Sign #54, Page 28 Sign #64b, Page 32 Sign #67, Page 33 Sign #68, Page 33 Sign #69, Page 33 Sign #70, Page 34 Sign #77a, Page 36 Sign #88c, Page 41
Kx-1 Trailhead Map Kiosk Large	4	Sign #22, Page 12 Sign #34, Page 16 Sign #38a, Page 20 Sign #73, Page 34	
Kx-2 Trailhead Map Kiosk Small	2	Sign #11, Page 7 Sign #92, Page 43	
Ix - 1/a Vehicular Identification	2	Sign #21, Page 12 Sign #33, Page 16	
Ix-3 Vehicular Identification Small	1	Sign #03, Page 2	

**BID ALTERNATE #1**

<i>Type of Sign</i>	<i>Sign Count</i>	<i>Reference</i>	
Ix-5 Overhead Street Identification	14	Sign #12a, Page 7 Sign #12b, Page 8 Sign #23a, Page 13 Sign #23b, Page 13 Sign #35b, Page 17 Sign #35c, Page 18 Sign # 42a, Page 22 Sign #42b, Page 22	Sign #56a, Page 29 Sign #56b, Page 29 Sign #64, Page 31 Sign #64a, Page 31 Sign #78a, Page 37 Sign #78b, Page 37

**BID ALTERNATE #2**

<i>Type of Sign</i>	<i>Sign Count</i>	<i>Reference</i>	
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Ix-4 Mile Marker	22	Sign #04a, Page 3 Sign #05a, Page 4 Sign #08a, Page 5 Sign #10, Page 6 Sign #16a, Page 9 Sign #18, Page 10 Sign #25a, Page 14 Sign #26, Page 14 Sign #29a, Page 15 Sign #30, Page 15	Sign #34a, Page 16 Sign #36, Page 18 Sign #39a, Page 21 Sign #44a, Page 23 Sign #55, Page 28 Sign #57a, Page 29 Sign #65, Page 32 Sign #73a, Page 35 Sign #79, Page 37 Sign #82a, Page 38 Sign #88a, Page 41 Sign #90, Page 42
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## TERMS AND CONDITIONS

1. Bids must be submitted on this form only and bear the handwritten signature of an authorized representative of the firm to be considered valid. Each bid will be placed in a separate envelope. Be sure the envelope is completely and properly identified and sealed. Telephone bids or fax bids will not be accepted. Unless otherwise stated by the City, no bidder may withdraw his bid within a period of sixty (60) days after the date set for the opening of bids.
2. If prices are quoted FOB Kingsport, TN., delivery to City of Kingsport locations shall be without additional charge.
3. Failure to examine any drawings, specifications, and instructions will be a bidder's risk. If bidder is in doubt as to the true meaning of any part of the drawings, specifications and instructions or other documents, he should submit a written request for an interpretation to the Procurement Manager. An interpretation of the documents will be made only by addendum issued by the Procurement Manager to each firm to whom an invitation was forwarded. The City will not be responsible for explanation or interpretations of bid documents except as issued in accordance herewith.
4. Where a brand or trade name appears in the specifications, it is understood that the brand or trade name referred to, or its approved equivalent, shall be furnished. If no mention is made of any exceptions, it is assumed that he is bidding on the article mentioned and not an approved equivalent.
5. The bidder is requested to attach brochure-type information on the supplies furnished. All guaranteed and warranties should be clearly stated.
6. Taxes. The City is exempted from Federal excise taxes and state and local sales taxes and bidders must quote prices which do not include such taxes. An exemption certificate will be furnished upon request.
7. Bids and modifications or corrections thereof received after the closing time specified will not be considered. The City is not responsible for delays in delivery by mail, courier, etc.
8. Any exceptions to these terms and conditions or deviations from written specifications will be shown in writing and attached to the bid form.
9. Any alteration, erasure, addition to or omission of requested information, change of the specifications, or bidding schedule, is made at the risk of the bidder and may result in the rejection of the bid, unless such changes are authorized by the specifications.
10. In the event cash discounts are offered by the bidder, the discount date shall begin with the date of the invoice or the date of receipt of all material covered by the order/contract, whichever is the later date.

11. Charges for boxing or cartage will not be allowed unless previously agreed upon.
12. Default in promised delivery and failure to comply with specifications authorizes the City to purchase supplies elsewhere and charge the difference to defaulting Vendor.
13. Bidder agrees to defend and save City of Kingsport from and against all demands, claims, suits, costs, expenses, damages and judgments based upon infringement of any patents relating to goods specified in this order or the ordinary use or operation of such goods by City or use or operation of such goods in accordance with bidders direction.
14. In case of error or discrepancy in the mathematics of the bid price, the unit prices shall prevail.
15. By submission of a signed bid, the bidder certifies total compliance with Title VI and Title VII of the Civil Rights Act of 1964, as amended, and all regulations promulgated thereunder.
16. Contracts and purchases will be made or entered into with the lowest, responsible, compliant bidder meeting specifications for the particular grade or class of material, work or service desired in the best interest and advantage to the City of Kingsport. Responsible bidder is defined as a bidder whose reputation, past performance, and business and financial capabilities are such that he would be judged by the appropriate City authority to be capable of satisfying the City's needs for a specific contract or purchase order.
17. The City reserves the right to determine the low bidder either on the basis of the individual items or on the basis of all items included in its INVITATION TO BID, unless otherwise expressly provided in the INVITATION TO BID. The City reserves the right to accept any item or group of items of any kind and to modify or cancel in whole or in part, its INVITATION TO BID.
18. All contracts or purchase orders issued for this award will be governed by the laws of the State of Tennessee.
19. The City, in accordance with its governing directives, reserves the right to reject any and all bids, to waive any informality or irregularities in bids and unless otherwise specified by the bidder, to accept any item.
20. This Bid includes an option to allow the City of Kingsport the right to purchase additional vehicles/equipment. The City's use of this option will be dependent upon the price offered by the vendor and the availability of funding. The City may exercise this option clause for a period of twelve (12) months after the award of the Bid. The City is aware that costs may increase for vehicle/equipment manufacture and delivery, and therefore a price adjustment for unit cost may be negotiated between the two parties. Documentation of cost increase is to be provided to the City by the Awarded Bidder as requested.



## Sign Message Schedule

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**Project Name:** Signage Plan for the Kingsport Greenbelt  
**Date Issued:** 8/20/2018

**01** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<b>Direction</b> West  <b>Street</b> Orebank Rd  <b>Nearest Landmark/Destination</b> Exchange Place	
← Trailhead Access		

**01a** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<b>Direction</b> South  <b>Street</b> Cleek Road  <b>Nearest Landmark/Destination</b> Cleek Farms	
← Trailhead Access		

**02** Gx-1b Vehicular Guide Access Trailblazer (existing post)

Sign Message	<b>Direction</b> East  <b>Street</b> Orebank Rd  <b>Nearest Landmark/Destination</b> Exchange Place	
→ Trailhead Access		
Notes		
Mount to existing wood pole if possible.  If not then ground mount in front of and to the right of pole.		



**02a** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<b>Direction</b> North	
→ Trailhead Access	<b>Street</b> Cleek Road	
	<b>Nearest Landmark/Destination</b> Cleek Farms	

**03** Ix-3 Vehicular Identification - Small (new sign)

Sign Message	<b>Direction</b> Southwest	
Exchange Place Trailhead	<b>Street</b> Orebank Rd	
Notes	<b>Nearest Landmark/Destination</b> Exchange Place	
Single-sided. Angle sign 45 degrees to road		

**03a** Ix-2a Vehicular Identification - Large, Double-sided (new)

Sign Message	<b>Direction</b> North and South	
Cleek Trailhead	<b>Street</b> Cleek Road	
	<b>Nearest Landmark/Destination</b> Cleek Farms	


**04** Kx-2 Trailhead Map Kiosk - Small

Sign Message	<b>Direction</b> Northwest and Southeast	
[map side faces Southeast]	<b>Street</b> Orebank Rd  <b>Nearest Landmark/Destination</b> Exchange Place	

**04a** Ix-4 Mile Marker

Sign Message	<b>Direction</b> North and South	
MILE 0	<b>Street</b> Cleek Rd  <b>Nearest Landmark/Destination</b> Cleek Farms	


**05** Gx-2 Trail Guide - Multi-message

Sign Message	<b>Direction</b> East	
→ Cleek Trailhead 1.0 MILES [rule line] ↑ Indian Trail Dr Trailhead 1.9 MILES Downtown 5.8 MILES	<b>Nearest Landmark/Destination</b> Chestnut Ridge	
Notes		
Sign for future Cleek Trailhead		


**05a**                      **Ix-4 Mile Marker**

Sign Message	<b>Direction</b> Northeast and Southwest	
MILE 0 1/2	<b>Street</b> Spring Creek Wynd	
	<b>Nearest Landmark/Destination</b> Reedy Creek	


**06**                      **Gx-2 Trail Guide - Multi-message**

Sign Message	<b>Direction</b> Northeast and Southwest	
<p>[Northeast Face]</p> <p>← Exchange Place Trailhead 0.7 MILE [rule line]</p> <p>→ Indian Trail Dr Trailhead 1.8 MILES Downtown 5.7 MILES</p> <p>[Southwest Face]</p> <p>↑ Cleek Trailhead 1.0 MILE</p>	<p><b>Nearest Landmark/Destination</b> Chestnut Ridge</p>	
Notes		
Sign for future trail spur		

**07** Gx-2 Trail Guide - Multi-message

Sign Message	<b>Direction</b> East and West	
[East Face] → Pavilion Shopping Center 0.5 MILES [rule line] ↑ Downtown 5.7 MILES  [West Face] ← Cleek Trailhead 1.0 MILES ↑ Exchange Place Trailhead 0.7 MILES	<b>Nearest Landmark/Destination</b> Chestnut Ridge	
Notes		
Sign for future trail spur		


**08** Gx-3 Trail Guide - Single-message

Sign Message	<b>Direction</b> West	
← Pavilion Shopping Center 0.5 MILES	<b>Nearest Landmark/Destination</b> Chestnut Ridge	
Notes		
Sign for future trail spur		

**08a** Ix-4 Mile Marker

Sign Message	<b>Direction</b> Northeast and Southwest	
MILE 1 1/2	<b>Street</b> Chickasaw Rd	


**09** Gx-2 Trail Guide - Multi-message

<p><b>Sign Message</b></p> <p>[North Face]                  ← Exchange Place Trailhead                  0.7 MILES                  [rule line]                  → Indian Trail Dr Trailhead                  1.8 MILES                  Downtown                  5.7 MILES</p> <p>[South Face]                  ↑ Pavilion Shopping Center                  0.5 MILES</p>	<p><b>Direction</b>                  North and South</p> <p><b>Nearest Landmark/Destination</b>                  Chestnut Ridge</p>	
<p><b>Notes</b></p> <p>Sign for future trail spur</p>		


**10** Ix-4 Mile Marker

<p><b>Sign Message</b></p> <p>MILE                  1</p>	<p><b>Direction</b>                  Northeast and Southwest</p>	
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**11** Kx-2 Trailhead Map Kiosk - Small

Sign Message	<b>Direction</b> Northwest and Southeast	
[map side faces northwest]	<b>Nearest Cross Street</b> N John B Dennis Hwy 93	

**12** Gx-3 Trail Guide - Single-message

Sign Message	<b>Direction</b> Southwest	
→ Cleek Trailhead 2.3 MILES	<b>Nearest Cross Street</b> Creek View Dr	


**12a** Ix-5 Overhead Street Identification

Sign Message	<b>Direction</b> West	
John B. Dennis Hwy	<b>Street</b> John B. Dennis Hwy	
	<b>Nearest Landmark/Destination</b> Greenway	


**12b** Ix-5 Overhead Street Identification

Sign Message	<b>Direction</b> East	
John B. Dennis Hwy	<b>Street</b> John B. Dennis Hwy	
	<b>Nearest Landmark/Destination</b> Greenway	

**13** Gx-2 Trail Guide - Multi-message

Sign Message	<b>Direction</b> Northwest and Southeast	
<p>[Northwest Face]</p> <p>→ Indian Trail Dr Trailhead 0.7 MILES Downtown 4.8 MILES [rule line]</p> <p>↑ Cleek Trailhead 2.3 MILES</p> <p>[Southeast Face]</p> <p>← Indian Trail Dr Trailhead 0.7 MILES Downtown 4.8 MILES [rule line]</p> <p>↑ Creek View Dr.</p>	<b>Nearest Cross Street</b> Creek View Dr	


**14** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<b>Direction</b> North	
↑ Trailhead Access	<b>Street</b> American Way	
	<b>Nearest Cross Street</b> Independance Way	

**15 Gx-1 Vehicular Trail Access Trailblazer (4" letters)**

<p>Sign Message</p>	<p><b>Direction</b> North</p>	
<p>Trailhead Access</p>	<p><b>Street</b> American Way</p> <p><b>Nearest Landmark/Destination</b> Dead end</p>	

**16 Gx-2 Trail Guide - Multi-message**


<p>Sign Message</p>	<p><b>Direction</b> North and South</p>	
<p>[North Face]</p> <p>← Cleek Trailhead 2.5 MILES</p> <p>[rule line]</p> <p>→ Stonebrook Place Trailhead 2.5 MILES Downtown 4.5 MILES</p> <p>[South Face]</p> <p>↑ American Way</p>	<p><b>Nearest Cross Street</b> American Way</p>	

**16a Ix-4 Mile Marker**

<p>Sign Message</p>	<p><b>Direction</b> East and West</p>	
<p>MILE 2 1/2</p>	<p><b>Nearest Cross Street</b> American Way</p>	



**17** Gx-3 Trail Guide - Single-message

<p>Sign Message</p>	<p><b>Direction</b> East and West</p>	
<p>[East Face] → American Way Connector</p> <p>[West Face] ← American Way Connector</p>	<p><b>Nearest Landmark/Destination</b> American Way Connector</p>	


**18** Ix-4 Mile Marker

<p>Sign Message</p>	<p><b>Direction</b> East and West</p>	
<p>MILE 2</p>	<p><b>Nearest Cross Street</b> N John B Dennis Hwy 93</p>	

**19** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

<p>Sign Message</p>	<p><b>Direction</b> North</p>	
<p>↑ Trailhead Access</p>	<p><b>Street</b> Indian Trail Dr</p> <p><b>Nearest Landmark/Destination</b> Buffalo Wild Wings</p>	

**19a** Gx-1a Vehicular Trail Access Trailblazer (6" letters)

<p>Sign Message</p>	<p><b>Direction</b> West</p>	
<p>→ Trailhead Access</p>	<p><b>Street</b> Lee Hwy 11W</p>	
<p>Notes</p> <p>Use new location closer to access road. Demo existing.</p>	<p><b>Nearest Cross Street</b> Indian Trail Dr</p>	

**19b** Gx-1a Vehicular Trail Access Trailblazer (6" letters)

<p>Sign Message</p>	<p><b>Direction</b> East</p>	
<p>← Trailhead Access</p>	<p><b>Street</b> Lee Hwy 11W</p>	
<p>Notes</p> <p>remove and replace existing sign</p>	<p><b>Nearest Cross Street</b> Indian Trail Dr</p>	


**20** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<b>Direction</b> North	
➤ Trailhead Access	<b>Street</b> Indian Trail Dr	

**21** Ix-1 Vehicular Identification (retrofit existing)

Sign Message	<b>Direction</b> Northeast	
Indian Trail Dr Trailhead	<b>Nearest Landmark/Destination</b> PetSmart	

**22** Kx-1 Trailhead Map Kiosk - Large

Sign Message	<b>Direction</b> North and South	
[map side faces north]	<b>Nearest Landmark/Destination</b> PetSmart	

**23** Gx-3 Trail Guide - Single-message

Sign Message	<b>Direction</b> East and West	
[East Face] → Eastman Road Shops [rule line]  ← [West Face] Eastman Road Shops [	<b>Nearest Cross Street</b> Eastman Rd  <b>Nearest Landmark/Destination</b> Olive Garden	


**23a** Ix-5 Overhead Street Identification

Sign Message	<b>Direction</b> West	
Eastman Rd	<b>Street</b> Eastman Rd  <b>Nearest Landmark/Destination</b> Greenway	

**23b** Ix-5 Overhead Street Identification

Sign Message	<b>Direction</b> East	
Eastman Rd	<b>Street</b> Eastman Rd  <b>Nearest Landmark/Destination</b> Greenway	

**25** Gx-4 Trail Guide - Icons Only

Sign Message	<b>Direction</b> East and West  <b>Nearest Cross Street</b> Eastman Rd  <b>Nearest Landmark/Destination</b> Reedy Creek Shopping Ctr	
[East Face] ← Reedy Creek Terrace		
[West Face] → Reed Creek Terrace		
Notes		
Icon to show visitor amenities, food, shopping, bike repair etc.		

**25a** Ix-4 Mile Marker

Sign Message	<b>Direction</b> East and West	
MILE 3 1/2		

**26** Ix-4 Mile Marker

Sign Message	<b>Direction</b> Northwest and Southeast  <b>Nearest Cross Street</b> Eastman Rd	
MILE 3		

**27** Gx-3 Trail Guide - Single-message

Sign Message	<b>Direction</b> East and West  <b>Nearest Landmark/Destination</b> American Storage Center	
[East Face] ↑ Stonebrook Place Trailhead 1.1 MILES Downtown 3.2 MILES		
[West Face] ↑ Indian Trail Dr Trailhead 1.0 MILES Cleek Trailhead 3.6 MILES		


**29a**                      **Ix-4 Mile Marker**

Sign Message	<b>Direction</b> Northwest and Southeast	
MILE 4 1/2		


**30**                      **Ix-4 Mile Marker**

Sign Message	<b>Direction</b> East and West	
MILE 4		

**31**                      **Gx-1a Vehicular Trail Access Trailblazer (6" letters)**

Sign Message	<b>Direction</b> East	
← Trailhead Access	<b>Street</b> E Stone Dr/ Lee Hwy 11W  <b>Nearest Cross Street</b> Stonebrook Place PI	

**32**                      **Gx-1a Vehicular Trail Access Trailblazer (6" letters)**

Sign Message	<b>Direction</b> West	
→ Trailhead Access	<b>Street</b> E Stone Dr/ Lee Hwy 11W  <b>Nearest Cross Street</b> Stonebrook Place PI	

**33**                      **Ix-1** Vehicular Identification (retrofit existing)

Sign Message	<b>Direction</b> West  <b>Street</b> Stonebrook Place  <b>Nearest Landmark/Destination</b> Parking lot entrance	
Stonebrook Place Trailhead		

**34**                      **Kx-1** Trailhead Map Kiosk - Large

Sign Message	<b>Direction</b> North and South  <b>Nearest Cross Street</b> Stonebrook Place PI	
[map side faces south]		
Notes		
on left side, next to path to trail		

**34a**                      **Ix-4** Mile Marker

Sign Message	<b>Direction</b> East and West	
MILE 5 1/2		

**35** Gx-2 Trail Guide - Multi-message

Sign Message	<p><b>Direction</b> North and South</p> <p><b>Nearest Cross Street</b> Gibson Mill Rd</p> <p><b>Nearest Landmark/Destination</b> Pendleton Land Grant</p>	
<p>[North Face]</p> <p>← Stonebrook Place Trailhead 0.5 MILES</p> <p>Indian Trail Dr Trailhead 2.6 MILES</p> <p>[rule line]</p> <p>→ Downtown 1.5 MILES</p> <p>[South Face]</p> <p>↑ Bus Stop Route 4 Gibson Mill Rd</p>		

**35a** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<p><b>Direction</b> South</p> <p><b>Street</b> Gibson Mill Street</p> <p><b>Nearest Landmark/Destination</b> Bridge over Reedy Creek</p>	
Trailhead Access		

**35b** Ix-5 Overhead Street Identification

Sign Message	<p><b>Direction</b> East</p> <p><b>Street</b> Gibson Mill Street</p> <p><b>Nearest Landmark/Destination</b> Greenway</p>	
Gibson Mill Rd		




**35c**                      **Ix-5** Overhead Street Identification

Sign Message	<b>Direction</b> West  <b>Street</b> Gibson Mill Street  <b>Nearest Landmark/Destination</b> Greenway
Gibson Mill Rd	

**36**                      **Ix-4** Mile Marker

Sign Message	<b>Direction</b> North and South
MILE 5	

**37**                      **Gx-1b** Vehicular Guide Access Trailblazer (existing post)

Sign Message	<b>Direction</b> Southeast  <b>Street</b> W Ravine Rd  <b>Nearest Cross Street</b> Cassell Dr  <b>Nearest Landmark/Destination</b> Inside Wellmont Parking Lot	
← Trailhead Access		
Notes		
Mount to existing light pole if possible		


**37a**                      **Gx-1** Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<b>Direction</b> Southwest  <b>Street</b> W Ravine Rd  <b>Nearest Cross Street</b> Cassell Dr	
← Trailhead Access		

**37b** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

<p>Sign Message</p>	<p><b>Direction</b> Northeast</p>	
<p>→ Trailhead Access</p>	<p><b>Street</b> W Ravine Rd</p> <p><b>Nearest Cross Street</b> Cassell Dr</p>	

**38** Gx-2 Trail Guide - Multi-message

<p>Sign Message</p>	<p><b>Direction</b> East and West</p>	
<p>[East Face] → Fitness Park Trailhead</p> <p>Wellmont Holston Valley Medical Center</p> <p>[West Face] ← Fitness Park Trailhead</p> <p>Wellmont Holston Valley Medical Center</p>	<p><b>Nearest Landmark/Destination</b> Wellmont Holston Med Ctr</p>	


**38a** Kx-1 Trailhead Map Kiosk - Large

Sign Message	<b>Direction</b> Northwest and Southeast  <b>Nearest Landmark/Destination</b> Wellmont Holston parking lot	
[map side faces northwest]		
Notes		
<p>I met with the Hospital and Wellmont administrators. They want this trailhead to be called Fitness Park Trailhead because they hope to add exercise equipment beside the trail. they also want a large vehicular identification sign 1x-2/2a and large kx-1 kiosk. Should they be placed on opposite sides of the trail or same side?</p>		

**38b** Ix-2 Vehicular Identification - Large (new)

Sign Message	<b>Direction</b> Southeast  <b>Street</b> W Ravine Rd  <b>Nearest Cross Street</b> Cassell Dr  <b>Nearest Landmark/Destination</b> Holston Valley Medical Center	
Fitness Park Trailhead		


**39** Ix-1 Vehicular Identification (retrofit existing)

Sign Message	<b>Direction</b> Northwest  <b>Street</b> Holston Valley Dr  <b>Nearest Cross Street</b> W Ravine Rd	
Holston Valley Drive Trailhead		


**39a**                      **Ix-4** Mile Marker

Sign Message	<b>Direction</b> Northwest and Southeast	
MILE 6		


**40**                      **Kx-1** Trailhead Map Kiosk - Large

Sign Message	<b>Direction</b> North and South	
[map side faces south]	<b>Street</b> Holston Valley Dr  <b>Nearest Cross Street</b> W Ravine Rd	

**41**                      **Ix-2a** Vehicular Identification - Large, Double-sided (new)

Sign Message	<b>Direction</b> East and West	
Holston Valley Drive Trailhead	<b>Street</b> Holston Valley Dr  <b>Nearest Cross Street</b> W Ravine Rd	

**42** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<b>Direction</b> Northeast  <b>Street</b> Clinchfield St  <b>Nearest Cross Street</b> Holston Valley Dr	
← Trailhead Access		

**42a** Ix-5 Overhead Street Identification

Sign Message	<b>Direction</b> West  <b>Street</b> Clinchfield St  <b>Nearest Landmark/Destination</b> Greenway	
Clinchfield St		


**42b** Ix-5 Overhead Street Identification

Sign Message	<b>Direction</b> East  <b>Street</b> Clinchfield St  <b>Nearest Landmark/Destination</b> Greenway	
Clinchfield St		

**43 Gx-1 Vehicular Trail Access Trailblazer (4" letters)**

Sign Message	<b>Direction</b> Southwest	
→ Trailhead Access	<b>Street</b> Clinchfield St  <b>Nearest Cross Street</b> Holston Valley Dr	

**44 Gx-3 Trail Guide - Single-message**

Sign Message	<b>Direction</b> East and West	
[East Face] ← Clinchfield Street  [West Face] → Clinchfield Street	<b>Nearest Cross Street</b> Holston Valley Dr	

**44a Ix-4 Mile Marker**

Sign Message	<b>Direction</b> East and West	
MILE 6 1/2		


**44b Gx-5 Urban Pedestrian Trailblazer**

→	<b>Direction</b> Southeast	
Notes	<b>Nearest Cross Street</b> Holston Valley Dr	
Sign should direct down to trail.		


**45** Gx-5 Urban Pedestrian Trailblazer

Sign Message	<p><b>Direction</b> Northwest</p> <p><b>Street</b> Cherokee Village Dr</p> <p><b>Nearest Cross Street</b> Clinchfield St</p> <p><b>Nearest Landmark/Destination</b> cul de sac</p>	
↑ Trail Continues .5 MILE		
Notes		
<p>Custom Layout with arrow and distance back to Greenway</p>		

**45a** Gx-5 Urban Pedestrian Trailblazer

↑	<p><b>Direction</b> Southeast</p> <p><b>Street</b> Cherokee Village Dr</p> <p><b>Nearest Cross Street</b> Clinchfield St</p> <p><b>Nearest Landmark/Destination</b> cul de sac</p>	
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**46** Gx-5 Urban Pedestrian Trailblazer

→	<p><b>Direction</b> Northwest</p> <p><b>Street</b> Cherokee Village Dr</p> <p><b>Nearest Cross Street</b> Clinchfield St</p>	
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**46a** Gx-5 Urban Pedestrian Trailblazer



**Direction**  
Northwest

**Street**  
Clinchfield St

**Nearest Cross Street**  
Cherokee Village Dr



**47** Gx-5 Urban Pedestrian Trailblazer



**Direction**  
Northeast

**Street**  
Clinchfield St

**Nearest Cross Street**  
Sequoyah Dr



**47a** Gx-5 Urban Pedestrian Trailblazer



**Direction**  
Southwest


**Street**  
Clinchfield St

**Nearest Cross Street**  
Sequoyah Dr






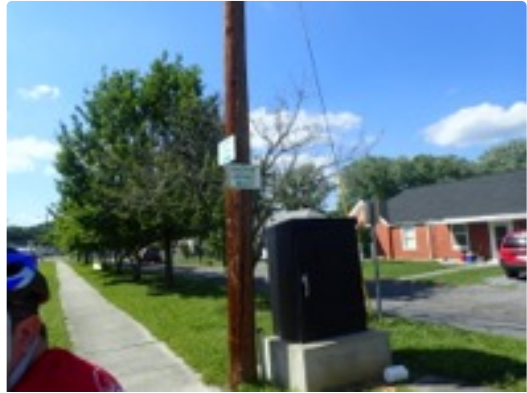
**48** Gx-2 Trail Guide - Multi-message

Sign Message	<b>Direction</b> Northeast  <b>Street</b> Clinchfield St  <b>Nearest Cross Street</b> W Sullivan St	
← Downtown 0.4 MILES [rule line] → Cloud Park Trailhead 0.5 MILES Boatyard Landing Trailhead 2.1 MILES Ross Bridge Ruins Trailhead 3.3 MILES		
Notes		
Option: install into existing light pole		

**49** Gx-2 Trail Guide - Multi-message

Sign Message	<b>Direction</b> Southwest  <b>Street</b> Clinchfield St  <b>Nearest Cross Street</b> W Sullivan St	
→ Downtown 0.4 MILES [rule line] ↑ Stonebrook Place Trailhead 1.6 MILES Indian Trail Dr Trailhead 3.8 MILES Cleek Trailhead 5.9 MILES		

**50** Gx-5 Urban Pedestrian Trailblazer

←	<b>Direction</b> Southeast  <b>Street</b> W Sullivan St  <b>Nearest Cross Street</b> Roller St	

**51** Gx-5 Urban Pedestrian Trailblazer



**Direction**  
Southwest

**Street**  
W Sullivan St

**Nearest Cross Street**  
Roller St



**52** Gx-5 Urban Pedestrian Trailblazer



**Direction**  
Northeast

**Nearest Cross Street**  
Roller St

**Nearest Landmark/Destination**  
Alley by Taylor & Taylor  
Used cars

Notes

Optional revised routing:  
Up one block, right on Branch Street, Spur path to Greenbelt on right side of road approx 350'



**53** Gx-5 Urban Pedestrian Trailblazer

Sign Message

← Trail Continues .5 MILE

Notes

Optional revised routing:  
Up one block, right on Branch Street, Spur path to Greenbelt on right side of road approx 350'

**Direction**  
Northwest

**Nearest Cross Street**  
Roller St

**Nearest Landmark/Destination**  
Alley by Taylor & Taylor  
Used cars




**54** Gx-5 Urban Pedestrian Trailblazer

←	<b>Direction</b> Northeast	
<b>Notes</b>		
Mounted to chain link fence		

**55** Ix-4 Mile Marker

<b>Sign Message</b>	<b>Direction</b> Northwest and Southeast	
MILE 7		

**56** Gx-2 Trail Guide - Multi-message

<b>Sign Message</b>	<b>Direction</b> Southeast	
← Boatyard Landing Trailhead 1.5 MILES [rule line]	<b>Nearest Landmark/Destination</b> Southern Classic Wash & Lube	
→ Downtown 1.1 MILES Stonebrook Place Trailhead 2.3 MILES		


**56a**                      **Ix-5** Overhead Street Identification

Sign Message	<b>Direction</b> North	
Center St	<b>Street</b> Center St	
	<b>Nearest Landmark/Destination</b> Greenway	

**56b**                      **Ix-5** Overhead Street Identification

Sign Message	<b>Direction</b> South	
Center St	<b>Street</b> Center St	
	<b>Nearest Landmark/Destination</b> Greenway	

**57**                      **Gx-2** Trail Guide - Multi-message

Sign Message	<b>Direction</b> North and South	
<p>[North Face]</p> <p>↑ Cloud Park Trailhead 0.05 MILES (248 ft.) Boatyard Landing Trailhead 1.7 MILES Ross Bridge Ruins Trailhead 3.0 MILES</p> <p>[South Face]</p> <p>→ Downtown 1.0 MILES Stonebrook Place Trailhead 2.1 MILES Indian Trail Dr Trailhead 4.1 MILES</p>	<p><b>Nearest Cross Street</b> Center St</p> <p><b>Nearest Landmark/Destination</b> Southern Classic Wash &amp; Lube</p>	

**57a**                      **Ix-4** Mile Marker

Sign Message	<b>Direction</b> East and West	
MILE 7 1/2		

**59** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<b>Direction</b> East	
← Trailhead Access	<b>Street</b> W Center St  <b>Nearest Landmark/Destination</b> Skate Park	


**60** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<b>Direction</b> West	
→ Trailhead Access	<b>Street</b> W Center St  <b>Nearest Landmark/Destination</b> Creekside Cafe	

**61** Ix-3a Vehicular Identification - Small, Double-sided (new)

Sign Message	<b>Direction</b> East and West	
Cloud Park Trailhead		

**62** Kx-2 Trailhead Map Kiosk - Small

Sign Message	<p><b>Direction</b> North and South</p> <p><b>Nearest Cross Street</b> W Center St</p> <p><b>Nearest Landmark/Destination</b> Cloud Park</p>	
[map side faces north]		

**64** Ix-5 Overhead Street Identification

Sign Message	<p><b>Direction</b> Northeast</p> <p><b>Nearest Cross Street</b> W Industry Dr</p>	
W Industry Drive		
Notes		
Install in bridge above trail		

**64a** Ix-5 Overhead Street Identification

Sign Message	<p><b>Direction</b> Southwest</p> <p><b>Nearest Cross Street</b> W Industry Dr</p>	
W Industry Drive		
Notes		
Install in bridge above trail		


**64b** Gx-5 Urban Pedestrian Trailblazer

→	<b>Direction</b> Southwest  <b>Street</b> W Industry Dr  <b>Nearest Landmark/Destination</b> Reedy Creek	
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**65** Ix-4 Mile Marker

Sign Message  MILE 8	<b>Direction</b> Northeast and Southwest  <b>Nearest Cross Street</b> W Industry Dr	
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**66** Kx-2 Trailhead Map Kiosk - Small

Sign Message  [map side faces Southwest]	<b>Direction</b> Northeast and Southwest  <b>Nearest Cross Street</b> Barton St  <b>Nearest Landmark/Destination</b> Picnic pavillion	
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**67** Gx-5 Urban Pedestrian Trailblazer



**Direction**  
Southeast

**Street**  
Barton St

**Nearest Cross Street**  
Keller St



**68** Gx-5 Urban Pedestrian Trailblazer



**Direction**  
West

**Street**  
Keller St

**Nearest Cross Street**  
Barton St



**69** Gx-5 Urban Pedestrian Trailblazer



**Direction**  
East

**Street**  
Keller St

**Nearest Cross Street**  
Devault St

**Nearest Landmark/Destination**  
Riverfront Seafood





**70** Gx-5 Urban Pedestrian Trailblazer



**Direction**  
South

**Street**  
Keller St

**Nearest Cross Street**  
Devault St

**Nearest Landmark/Destination**  
Riverfront Seafood



**72** Ix-2a Vehicular Identification - Large, Double-sided (new)

Sign Message

Netherland Inn Road Trailhead

Notes

Consider adding signage or painted graphics to columns for Greenbelt/Trailhead identification from road.

**Direction**  
East and West

**Street**  
Netherland Inn Rd

**Nearest Cross Street**  
James H Quillen Pkwy I  
-26



**73** Kx-1 Trailhead Map Kiosk - Large

Sign Message

[map side faces north]

Notes

Consider adding signage or painted graphics to columns for Greenbelt/Trailhead identification from road.

**Direction**  
North and South

**Street**  
Netherland Inn Rd


**Nearest Cross Street**  
James H Quillen Pkwy I  
-26



**73a**                      **Ix-4 Mile Marker**

Sign Message	Direction	
MILE 8 1/2	East and West	

**75**                      **Gx-2 Trail Guide - Multi-message**

Sign Message	Direction	
<p>[East Face]</p> <p>← Riverfront Park Domtar Park 400 FEET [rule line]</p> <p>↑ Boatyard Landing Trailhead 0.4 MILES Ross Bridge Ruins Trailhead 1.6 MILES</p> <p>[West Face]</p> <p>→ Riverfront Park [rule line]</p> <p>↑ Cloud Park Trailhead 1.0 MILES Downtown 2.2 MILES</p>	<p>East and West</p> <p><b>Nearest Cross Street</b> Netherland Inn Rd</p> <p><b>Nearest Landmark/Destination</b> Riverfront Park</p>	
Notes		
<p>Domtar:</p> <p>From sign to other side of bridge = 400 ft.</p> <p>From sign to path around baseball fields = 800 ft.</p> <p>From sign to parking lot via bridge = 1600 ft. or .3 miles.</p>		

**77** Gx-2 Trail Guide - Multi-message

Sign Message	<p><b>Direction</b> North and South</p> <p><b>Street</b> Netherland Inn Rd</p> <p><b>Nearest Cross Street</b> Ridgefields Rd</p> <p><b>Nearest Landmark/Destination</b> Stairs down from intersection</p>	
<p>[North Face]</p> <p>← Riverfront Park Downtown 2.5 MILES [rule line]</p> <p>→ Boatyard Landing Trailhead 0.3 MILES</p> <p>[South Face]</p> <p>← Boatyard Landing Trailhead 0.3 MILES [rule line]</p> <p>→ Riverfront Park Downtown 2.5 MILES</p>		

**77a** Gx-5 Urban Pedestrian Trailblazer

↑	<p><b>Direction</b> North</p> <p><b>Street</b> Netherland Inn Rd</p> <p><b>Nearest Cross Street</b> Ridgefields Rd</p>	
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**78** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<p><b>Direction</b> East</p> <p><b>Street</b> Netherland Inn Rd</p> <p><b>Nearest Cross Street</b> Lilac St</p>	
<p>← Trailhead Access</p>		

**78a**                      **Ix-5** Overhead Street Identification

Sign Message	<b>Direction</b> East	
Ridgefield Rd	<b>Street</b> Ridgefield Rd	
	<b>Nearest Landmark/Destination</b> Greenway	


**78b**                      **Ix-5** Overhead Street Identification

Sign Message	<b>Direction</b> West	
Ridgefield Rd	<b>Street</b> Ridgefield Rd	
	<b>Nearest Landmark/Destination</b> Greenway	

**79**                      **Ix-4** Mile Marker

Sign Message	<b>Direction</b> East and West	
MILE 9		


**80**                      **Ix-3a** Vehicular Identification - Small, Double-sided (new)

Sign Message	<b>Direction</b> East and West	
Boatyard Landing Trailhead	<b>Nearest Cross Street</b> Netherland Inn Rd	
	<b>Nearest Landmark/Destination</b> Stairs down from Greenbelt	

**81** Kx-1 Trailhead Map Kiosk - Large

Sign Message	<b>Direction</b> East and West	
[map side faces east]	<b>Nearest Cross Street</b> Netherland Inn Rd  <b>Nearest Landmark/Destination</b> Stair up to parking lot	

**82** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<b>Direction</b> West	
→ Trailhead Access	<b>Street</b> Netherland Inn Rd  <b>Nearest Cross Street</b> Lilac St	

**82a** Ix-4 Mile Marker

Sign Message	<b>Direction</b> East and West	
MILE 9 1/2		


**83** Gx-1a Vehicular Trail Access Trailblazer (6" letters)

Sign Message	<b>Direction</b> East  <b>Street</b> Netherland Inn Rd	
← Trailhead Access Boat Ramp [B]		
Notes		
Custom Layout		

**84** Gx-1a Vehicular Trail Access Trailblazer (6" letters)

Sign Message	<b>Direction</b> East and West  <b>Street</b> Netherland Inn Rd	
[East Face] Trailhead Access Boat Ramp [B]		
[North Face] Trailhead Access Boat Ramp [B]		
Notes		
Custom Layout		
Replace existing sign		


**85** Gx-1a Vehicular Trail Access Trailblazer (6" letters)

Sign Message	<b>Direction</b> West  <b>Street</b> Netherland Inn Rd	
→ Trailhead Access Boat Ramp [B]		
Notes		
Custom Layout		
Replace existing sign		


**86** Kx-2 Trailhead Map Kiosk - Small

<p><b>Sign Message</b></p> <p>[map side faces north]</p>	<p><b>Direction</b> North and South</p> <p><b>Nearest Cross Street</b> Netherland Inn Rd</p>	
----------------------------------------------------------	------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

**87** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

<p><b>Sign Message</b></p> <p>← Trailhead Access</p>	<p><b>Direction</b> East</p> <p><b>Street</b> Netherland Inn Rd</p>	
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**88** Kx-1 Trailhead Map Kiosk - Large

<p><b>Sign Message</b></p> <p>[map side faces east]</p>	<p><b>Direction</b> East and West</p> <p><b>Nearest Cross Street</b> Netherland Inn Rd</p>	
---------------------------------------------------------	----------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

**88a**                      **Ix-4 Mile Marker**

Sign Message	<b>Direction</b> East and West	
MILE 10 1/2		

**88b**                      **Gx-3 Trail Guide - Single-message**


Sign Message	<b>Direction</b> East and West	
[East Face] ← Ross Bridge Ruins	<b>Street</b> Netherland Inn Rd	
[West Face] → Ross Bridge Ruins	<b>Nearest Cross Street</b> Riverwood Pl	
Notes	<b>Nearest Landmark/Destination</b> Ross Bridge Ruins	
Install sign at entrance to path leading to Ross Bridge Ruins.		

**88c**                      **Gx-5 Urban Pedestrian Trailblazer**

↑	<b>Direction</b> North	
Notes	<b>Street</b> Netherland Inn Rd	
Install in new post at path from parking to Greenbelt trail.	<b>Nearest Landmark/Destination</b> Ross Bridge Ruins	



**89** Gx-1 Vehicular Trail Access Trailblazer (4" letters)

Sign Message	<b>Direction</b> East and West	
[East Face] ← Trailhead Access	<b>Street</b> Netherland Inn Rd	
[West Face] → Trailhead Access		

**90** Ix-4 Mile Marker

Sign Message	<b>Direction</b> East and West	
MILE 9		

**91** Gx-2 Trail Guide - Multi-message

Sign Message	<b>Direction</b> West	
[West Face] ↑ Boatyard Landing Trailhead 1.2 MILES ↑ Cloud Park Trailhead 3.0 MILES ↑ Downtown 4.4 MILES	<b>Street</b> Netherland Inn Rd  <b>Nearest Cross Street</b> Rotherwood Dr	
Notes		
Install east of Rotherwood Dr.		

**92** Kx-2 Trailhead Map Kiosk - Small

<p><b>Sign Message</b></p>	<p><b>Direction</b> North and South</p>	
<p>[map side faces south]</p>	<p><b>Nearest Cross Street</b> Netherland Inn Rd</p>	
<p><b>Notes</b></p>	<p><b>Nearest Landmark/Destination</b> Rotherwood Bridge</p>	
<p>NOTE location 91 has moved. See #91 for location information.</p>		

# Greenbelt Trail Wayfinding Signage Program

Kingsport, TN

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## DESIGN INTENT DRAWINGS

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Issued      September 27, 2017

Revised     October 30, 2017

Final

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### Notes

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# Fabrication Specifications

## SECTION 10 14 00 – EXTERIOR SIGNAGE

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes specifications related to fabrication and installation of exterior project signage.
1. Sign type details are listed in the Design Intent Drawings. Design drawings are provided to the Fabricator in PDF format, or in Adobe Illustrator CC 2015.
  2. Sign Location Plans are general in nature and not to scale. They reflect locations deemed desirable for the effectiveness of the overall wayfinding plan. Sign location plans are provided to the Fabricator in PDF format
  3. The Sign Message Schedule includes sign type, exact messaging, layout details, and provides additional installation or graphic layout information specific to each sign location. Sign message schedules are prepared in FileMaker. Fabricator will be provided information in PDF format sorted by sign type and by sign number. Data is also available exported into an Excel file.
  4. The materials, products, equipment and performance specifications within these documents describe the standard of required function, dimension, appearance, performance and quality to be met by the Fabricator.
- B. Fabricator's responsibilities:
1. Engineer, fabricate and install all signage and graphics per the final documents provided at contract award.
  2. Be knowledgeable of relevant federal, state and local code requirements, and be responsible for ensuring that all signs meet current local, state and federal codes, especially, but not limited to, ADA and Fire/Life Safety codes.
  3. Perform complete structural design and engineering of the signs and incorporate all the safety features necessary to adequately support the sign for its intended use and purpose, as required for approvals and permits, and to protect the Owner. All signs shall meet local, state and federal codes. Engineered shop drawings for project signage shall be reviewed, stamped and signed by a Tennessee-registered engineer. Shop drawings are to be provided for all sign elements.
  4. Engineer all signs, banners and mounting devices, unless otherwise indicated, to withstand the required wind load (normal to the sign, in addition to the weight of the sign) as specified by ASCE, American Society of Civil Engineers, or greater as per local, state or federal code.

#### 1.2 WARRANTY

5. Signs listed in the sign message schedule design intent should match those on the sign location plan. Fabricator to notify the Owner's Representative of any discrepancies before manufacturing the signage.
  6. Visit the site to observe existing conditions, verify mounting conditions and space availability, take field measurements and verify all signage locations with Owner's Representative prior to starting fabrication.
  7. Develop graphic proofs of all sign faces using messaging from sign message schedule and design Intent.
  8. Secure any and all necessary permits for signage installation.
  9. Work with the Owner's Representative to secure any necessary variances.
  10. Notify the Owner's Representative immediately if any discrepancies exist within the Construction Documents or field conditions.
  11. Provide all submittals outlined in the specifications in a timely fashion and according to the agreed upon contract schedule.
  12. Work with the Owner's Representative to coordinate with other trades performing work on site.
  13. Maintain all project related files such that the Owner may reorder additional signs for a minimum of 10 years after the completion of the work.
- A. Extend in writing all manufacturers' warranties.
- B. Obtain a minimum five (5) year extended warranty on all paint and powder coat applications.
- C. Obtain a minimum eight (8) year warranty on all custom color vinyl or flood-coated vinyl applications. Vinyl shall not fade excessively, discolor, crack, peel, blister, or loose reflectivity.
- D. Obtain a minimum five (5) year warranty on all applied vinyl applications. Vinyl shall not fade, discolor, delaminate, crack or curl.
- E. Provide a written full replacement warranty for five (5) years starting from the completion of installation that all signs will be free of defects due to craft work and materials including, but not limited to:
1. Bubbling, chalking, rusting or other disintegration of the sign panel, graphics or of the edges.
  2. Corrosion appearing beneath paint surfaces of panels, brackets, posts or other support assemblies (except as an obvious result of vandalism or other external damage).

#### 1.3 DESIGN RIGHTS

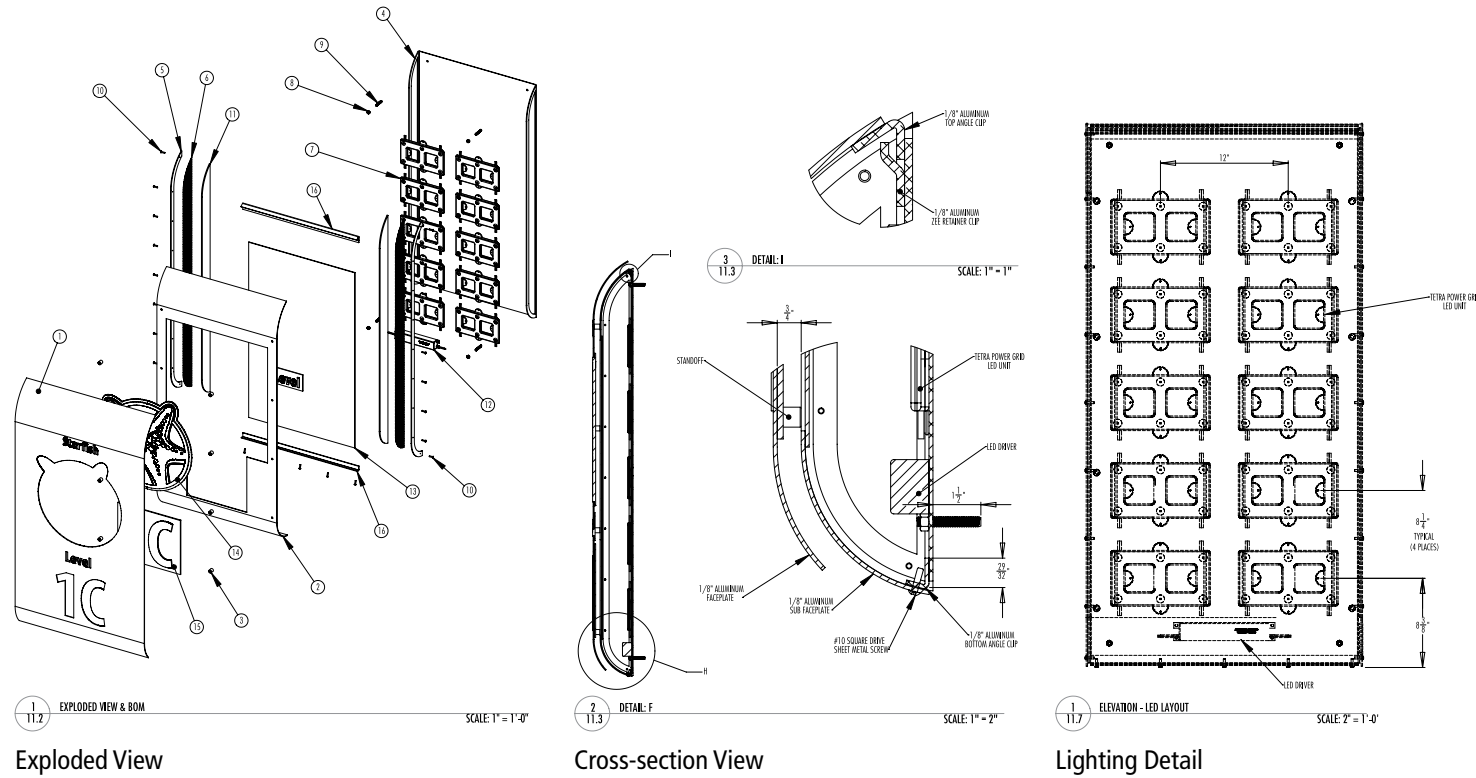
3. Corrosion of fasteners.
  4. The assemblies not remaining true and plumb on their supports.
  5. Fading, chalking and discoloration of the colors and finishes within the vinyl and paint manufacturer's stated warranty period.
  6. Peeling, delamination or warping ("oil canning").
  7. Repair and reinstallation of signage due to failed mountings.
- F. Repair or replace, including installation, any defective signs or hardware, which develop during the warranty period and repair any damage to other work due to such imperfections at no charge to the Owner and to the Owner's satisfaction.
- G. The Fabricator will be required to fully replace all signs that are in error relative to the working documents (sign type drawings) that were submitted to the Fabricator upon award of contract.
- A. The Fabricator is hereby granted limited right to the designs as shown and specified herein for the sole purpose of completing contractual obligations to fabricate and install project signage. Fabricator may not manufacture, reproduce or exhibit these designs, or modify them for any other purpose without prior written consent from both the Owner/ Owner's Representative.

#### 1.4 SUBMITTALS

- A. Pre-Fabrication Submittals: Submit the following to the Owner's Representatives and Designer for review and approval prior to commencing with signage fabrication.
1. Shop Drawings: Detailed engineered shop drawings for each sign type are to be submitted as electronic PDF no larger than 11" x 17". Final Shop Drawings are to be stamped by an Engineer licensed in the State of Tennessee to ensure structural integrity and safety. The shop drawings for each sign type shall illustrate/ describe the following:
    - a. Elevations and cross sections – front, sides, top and back; side sections; internal structure section/ details; enlarged details such as of extrusions, push-through letter mounting, mounting plate; and access panel, etc.; with all final dimensions and call-outs for:
    - b. Components – construction details/information related to individual elements
    - c. Materials – color, type, gauge, and thickness (including substrates and overlays)

- d. Finishes – color, type of product, manufacturer, and sheen
- e. Fonts, graphics specifications and message fields
- f. Exploded view, unless otherwise indicated – isometric view with components, materials, and finishes.
- g. Cross-section of corners – one illustration for each corner condition. Items to be illustrated: seams, joints, layers, internal support and fasteners.
- h. Mounting/installation details – provide foundation cross-sections (including hardware), bracket/post details, elevations, materials, finishes and fasteners.
- i. Electrical details are to be provided for all elements that require electricity. Specific items to be listed are:
  - 1) Light source and/or fixture type and manufacturer
  - 2) Power supply (transformer)
  - 3) Amperage and voltage per sign
  - 4) Electrical service required (source)
  - 5) Electric Eye and Timer
- j. Lighting detail – provide an internal view of light fixtures, LED layout, transformers, external cut-off switch, light sensor, and timer.
- k. Foundation details – provide detailed foundation details including all concrete and reinforcement specifications.
- l. Engineering for wind load
- m. Removable panels (where applicable)
- n. Identify any dimensional or other changes in the overall sign required by virtue of the fabrication materials, techniques and/or engineering.

# Fabrication Specifications



2. Samples: Submit three (3) 5" x 5" samples of each material listed in the design intent material specifications using actual substrate materials for review and approval. One will be returned, one kept by the Owner's Representative and one kept in the Designer's records.
  - a. Label the back of every sample with the project name, sample designation and fabricator name.
  - b. The Owner's Representative and Designer reserve the right to reject any sample and require additional samples as necessary to obtain final approval.
3. Keystroke Proofs: Provide a proofing document of final production keystroke output for all sign messages to verify line breaks, character and word spacing, and interline spacing.
  - a. The proofs are to be scaled production art files, not full sized.
  - b. Layouts are to be organized by sign type and by sign number within each sign type group.
  - c. Each layout is to be identified with the corresponding sign number.

4. Schedule: Provide a detailed fabrication and installation schedule.
  - a. Include all pertinent dates and milestones such as submittal delivery dates, required approval dates, fabrication dates and installation dates.
  - b. Include all lead times for materials and third-party supplied items.
  - c. Allow a minimum of 15 business days for Owner Representative and Designer review with one round of revisions built in unless otherwise noted within the bid schedule.
  - d. Include submittal delivery dates.
- B. During Fabrication Submittals:
  1. Fabricator is required to maintain the detailed fabrication and installation schedule, submitting weekly updates as changes occur.
  2. Upon request, Fabricator is to submit photo documentation of signage at various stages of fabrication and installation. Review of these photos does not rule out rejection of the sign during the punch list if they do not meet fabrication requirements.

- C. Post-Fabrication Submittals: Upon completion of the initial installation, the following are to be submitted to the Owner's Representatives.
  1. Maintenance instructions and manuals for all sign components (lighting, paint, etc.), along with final amended shop drawings, as-installed sign location plans and approved keystroke documents.
  2. Instructions for maintenance and waxing of painted, powder coated and fiberglass elements.
  3. One (1) pint of each finish paint color for touch-up purposes.
  4. Warranty documentation, as outlined above.

## 1.5 QUALITY ASSURANCE

- A. The materials, products, equipment and performance specifications described within, establish a high quality standard of required function, dimension, appearance, performance and quality to be met by the Fabricator.
- B. Materials used for this project shall be new materials, not reconditioned.
- C. Fabricator shall only use workforce skilled and experienced with the products, fabrication methods, and installation requirements outlined for this project.
- D. Fabrication and installation is to withstand severe abuse and souvenir theft vandalism, but not less than the equivalent of resisting simple hand implements and tools (screwdrivers, knives, coins, keys, and similar items), and adult physical force. It is the fabricator's responsibility to suggest alternate fabrication or installation methods, should they be deemed necessary to hinder theft or vandalism.
- E. Regulatory Requirements: Signage shall meet or exceed requirements of all current applicable local, state and federal codes, including, but not limited to:
  1. MUTCD standards manual, 2009 edition with the 2012 revisions;
  2. 2010 Americans with Disabilities Act Standards for Accessible Design, including local modifications and amendments; and
  3. Local and State Building and Fire Codes.

## 1.6 DELIVERIES, STORAGE AND MATERIAL HANDLING

- A. Pack, wrap, crate, bundle, box, bag, or otherwise package, handle, transport, and store all fabricated work as necessary to provide protection from damage.
- B. Provide clear and legible identifying information on all product packaging to ensure proper on-site identification and installation.
- C. Recommend covering all sign faces with a low-tack protective vinyl cover, to be removed after installation. This is to help minimize minor scratches and nicks that happen during unpacking and installation.
- D. Coordinate the delivery and secure storage of signs with the Owner's Representative to meet deadlines.

# Fabrication Specifications

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Substitution:
  - 1. No substitution will be considered unless the Owner's Representative and Designer have received written request for approval.
  - 2. Equal or better equipment or method may be recommended, but fabricator will be required to provide full documentation, upon request, establishing such a substitution's equality or superiority as measured in: compliance with the visual design intent, cost, ease of maintenance, and performance.
  - 3. The Owner's Representative and Designer's decision of approval or disapproval of a proposed substitution shall be final.
- B. Approved manufacturers include:
  - 1. Acrylic Polyurethane Paint: Matthews Paint Company or Akzo Nobel
  - 2. Powder Coating: PPG Duranar or Akzo Nobel Interpon
  - 3. Exterior Vinyl: 3M
  - 4. Exterior Perforated Vinyl: 3M
  - 5. Acrylic Sheets: Rohm and Hass Co, Acrylite or equal.
  - 6. Panaflex: 3M or equivalent
  - 7. LED lighting system: General Electric, SloanLED, Philips, US LED or equivalent
  - 8. Exterior Extrusions: SignComp, Charleston Industries or equivalent
  - 9. Exterior Tactile signs: Gravoply or equivalent
  - 10. Stainless Steel Strapping System: Band-It or equivalent
  - 11. Banner Hanging System: Banner Saver
  - 12. High Pressure Laminate: Folia, i-Zone
  - 13. Fiberglass Imbedded Panel: Pannier Graphics
  - 14. Electronic Message Centers: Daktronics, Firewatch, Vantage LED
  - 15. Adhesive Silicone: Dow Corning or equivalent
  - 16. Adhesive Tape: Polyfoam or "Isotac" by 3M or equivalent

### 2.2 Materials

- A. Aluminum: suitable for ornamental work. Finish to be smooth and free of imperfections. Alloy based upon structural requirements of the signage design.
- B. Aluminum sheet: .125" minimum thickness unless otherwise specified.

- C. Aluminum plate: .25" minimum thickness unless otherwise specified.
- D. Structural Steel: galvanized rolled steel or equal as required to meet structural requirements.
- E. Acrylic sheet: varying colors and thicknesses as noted on design intent drawings, 2447 is standard for use in LED illuminated sign types, 7328 is standard for use in Fluorescent illuminated sign types.
- F. Illumination: per design drawings as LED
- G. Day/Night perforated vinyl: 3M custom color vinyl; flood-coating perforated vinyl is not an acceptable solution unless noted within the design intent drawings.
- H. Adhesive vinyl: opaque color, reflective color, translucent color and transparent color.
- I. Electric Eye and Timer as indicated by the Owner's Representative.
- J. Exterior grade paint: acrylic polyurethane paint in solid and metallic colors with primer and Super Satin Clearcoat finish.
- K. Matthew's Paint reflective white paint or 3M Matte White Light Enhancement Film.
- L. Labels: Only labels required by law are permitted on the exterior of the sign face.
  - 1. Labels shall not be on the primary messaging faces of the sign, unless dictated so by the local ordinance.
  - 2. Labels shall be located in a position as discreet as possible.
  - 3. No other labels are permitted on the signs.
  - 4. Fabricator contact information may be placed inside the sign on the access panel.
- M. Fiberglass panels with embedded artwork are to be fabricated using 1/8" thick fiberglass panel with permanently embedded digital graphics. The panel must be a solid, one-piece panel with all graphic elements inseparable from the fiberglass in which they are embedded.
- M. All printed graphics shall be printed at a minimum of 1200 DPI using exterior grade UV inks.
- O. High pressure laminate: Digital graphic surface papers encapsulated with melamine resins are pressed over a portion of recycled post-consumer kraft paper core sheets impregnated with phenolic resin. These sheets are bonded under pressures greater than 1200 pounds per square inch and at temperatures approaching 300°F (149°C). The 0.040"

backs are sanded to facilitate bonding to other substrates.

### 2.3 FABRICATION

- A. Details on design drawings indicate a design approach for sign structure but do not necessarily include all fabrication 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.
- B. Site-verify all locations to determine special installation requirements, uneven footing needs based on sloped grades.
- C. Fabricate signage such that major components of the sign can be removed and replaced with similar components. Incorporate this changeability such that it does not promote vandalism, but can be done by a qualified maintenance crew.
- D. Within fabrication tolerances, allow for expansion and contraction of materials due to temperature changes as appropriate to the project location.
- E. Construction Methodology:
  - 1. The drawings call for a variety of fabrication techniques.
  - 2. Sign faces are to be fabricated using aluminum plate of varying thicknesses, as specified on design drawings, with a minimum thickness of .125 inches unless otherwise noted.
  - 3. Push-through copy:
    - a. Routed push-through copy from a single sheet of white acrylic.
    - b. Acrylic to have a minimum thickness of 3/8".
    - c. Acrylic to be pushed through 1/16" unless otherwise noted on design drawing.
    - d. Letters and shapes that are routed out and bonded to a separate acrylic sheet are not acceptable.
    - e. Acrylic is to be attached to the interior of the sign using mechanical fasteners.
    - f. All letter knock-outs (interior of letter forms) are to be stud mounted through the acrylic.
    - g. Acceptable spacing between the push-through acrylic and the cutout aluminum is 1/32" for copy 12" or smaller. Copy larger than 12" may have alternate spacing to allow for the change in material expansion.
    - h. The edges and corners of routed letterforms shall be sharp and true. Letterforms with nicked, cut, ragged, rounded (positive or negative) corners, and similar disfigurements will not be acceptable.
- 4. Conceal all fasteners except for access panels or where approved otherwise by Owner's Representative and Designer. Access panel fasteners are to be stainless steel, tamper resistant, counter-sunk flush screws, painted to match adjacent finish.
- 5. All hardware and fasteners within reach shall be vandal resistant.
- 6. Any sign faces smaller than 8' by 20' are to be fabricated from 1 piece of seamless material.
- 7. To prevent electrolysis, separate all ferrous and non-ferrous materials with a non-conductive gasket or barrier and utilize stainless steel fasteners as required.
- 8. Welded joints:
  - a. Exposed welded joints must be filled and ground smooth so that there is no seam visible when painted.
  - b. Dimensional and structural welding defects will not be accepted, including but not limited to: poor weld contours, including excessive bead convexity and reinforcement, and considerable concavity or undersized welds; cracks; undercutting; porosity; incomplete fusion; inadequate penetration; spatter; and non-metallic inclusions.
  - c. Welding is to be performed by AWS (or similar) certified personnel, following AWS Standard Welding Procedure Specifications (SWPSs) for steel, aluminum, and stainless steel as appropriate.
- 9. Non-welded joints between various portions of signs must have a tight, hairline-type appearance, without gaps. Provide sufficient fastenings to preclude looseness, racking, or similar movement.
- 10. Exposed acrylic edges are to be finished such that no saw marks are visible.
- 11. Drain holes:
  - a. Provide drain holes as needed to prevent accumulation of water within signs.
  - b. Holes must be inconspicuous and located such that drainage does not occur onto signs, or other surfaces subject to staining.
  - c. Provide internal system of baffles to prevent "light leaks" through drain holes of illuminated signs.
  - d. Use color-coordinated stainless steel bug mesh screen over drain holes or vents.
- 12. Non-illuminated sign faces are to have lettering and graphics created as surface-applied vinyl typography unless otherwise noted in the design drawings.
- 13. Visible metal joints must adhere to a fit tolerance of .01".

# Fabrication Specifications

14. Channel letters:
    - a. Non-illuminated faces must be .125" aluminum.
    - b. Channel letter returns must be a minimum of .080" aluminum.
    - c. Face-lit channel letters shall be trimless.
    - d. Jewel trim is not acceptable.
    - e. Raceways are not acceptable unless specifically noted on the design intent drawing or if approved by the Owner. Approved raceways must be painted the same color as the wall on which the raceway will be mounted.
    - f. Acrylic must fit snugly into the letter return.
  15. Sign panels shall be appropriately pre-drilled/pre-cut before priming and painting or coating.
- F. Painting:
1. Metal surfaces are to be painted per the most recent Matthews Paint or Akzo Nobel product bulletins.
  2. Paint preparation of all metal surfaces of the sign to include removal of all scratches and imperfections, sanding and chemical etching.
  3. Substrate cleaning, preparation, paint application and paint thickness to be in strict compliance with Matthews Paint or Akzo Nobel published recommendations.
  4. Aluminum and Steel surfaces to be properly covered with a primer.
  5. Acceleration of the drying process is not allowed.
  6. All paint and powder coat finishes to be a satin finish unless otherwise noted in the design drawings.
  7. All painted surfaces to have a clearcoat finish to add UV protection and protection from the elements.
- G. Illumination & Electrical:
1. Perform the complete electrical design for illuminated signs.
    - a. Illuminated signs shall be designed by an electrical engineer.
    - b. Illuminated signs shall be fabricated and wired to be compliant with current UL® listing requirements.
    - c. Illuminated signs shall be UL® Certified.
  2. The disconnect switch is to be located in an inconspicuous location, not visible from the primary face(s) of the sign.
  3. Fabricator to verify location of power and electrical feed with the Owner's Representative prior to sign fabrication.
4. All internally illuminated signs and channel letters shall be painted white on the interior using Matthews' reflective white paint, or shall be lined with 3M's Matte White Light Enhancement Film, to enhance and evenly distribute light.
  5. Provide concealed access panel in an accessible location on all internally illuminated sign cabinets. Panels are to be flush, lightproof and watertight.
  6. Internally illuminated signs are to have adequate internal system of ventilation to assure a uniform dissipation of heat from electrical components of electrically powered and illuminated signs, heat (solar) absorption by sign and other sources.
  7. Any openings in exterior surfaces must be internally baffled to prevent light leaks and prevent entry of rain, snow, wind-blown debris, and other foreign matter, and are to be covered with color-coordinated insect screen on the interior of the face.
  8. House all electrical components within sign cabinets, except for remote transformers as dictated by the Owner's Representative. All wiring and raceways within the sign are to be completely enclosed.
  9. Transformers for channel letters shall be remote transformers wherever possible. If remote transformers are not applicable, then all electrical components shall be contained within the channel letter itself.
  10. Internal illumination by lamps is required to provide adequate and even illumination over the face of the sign without hot spots or shadows.
  11. Illumination to be provided by LED as specified on design drawings.
    - a. Internally illuminated channel letters shall be illuminated using LED, unless otherwise noted on the design drawings.
  12. LED, lamps or other internal hardware must not be visible through the translucent letterforms and graphics.
  13. All internally illuminated signs are to have a master timer with photoelectric eye on/off control to turn the sign on at night and off in the morning, and on during dark conditions. Location of timer to be approved by the Owner's Representative.
  14. Test and verify all illumination within the shop environment prior to shipping signs to site.
- H. Fonts/Typefaces:
1. Fonts used within the Designer's programs were purchased by and are licensed to the Designer. It is the responsibility of the fabricator to purchase the specified licensed fonts for use within this program. See the design intent typography page for the specific fonts.
2. The fabricator is responsible for spacing the letters (Kerning) to meet ADA code requirements.
  3. Letter height/cap height is based upon the height of the capital letter "E" or any capital character that has a flat top and base.
  4. Under no circumstances are typefaces to be electronically distorted ("squeezed" or "extended") for purposes of fitting to the specified sign or general alteration of the sign face composition unless noted in the drawings. This includes (but is not limited to) stretching, squeezing, tilting, outlining or shadowing.
  5. Ligatures are to be turned off.
  6. Apostrophes and quotation marks are to be used, not footmarks and inches. Note that there is a difference in most fonts.
  7. Fabricator to reference spacing within the Design Intent Drawing package. Layout of copy is critical for the proper function of the wayfinding signage. Any typesetting concerns or issues are to be brought to the Designer for resolution recommendations.
  8. Fabricator is responsible for correcting any typesetting errors that may be necessary.
- I. Silk-screen, digital printing and vinyl copy:
1. All letterforms, symbols or graphics shall be reproduced either by photographic or computer-generated means.
  2. Cutting shall be done such that edges and corners of finished letterforms will be straight, sharp and true.
  3. Letterforms with nicked, cut, ragged, rounded corners, and similar disfigurements will not be acceptable.
  4. Copy is to match the sheen of the copy panel background (satin).
  5. Surface of letters shall be uniform in color finish, and free from pinholes and other imperfections.
  6. Silk-screened images shall be executed with photo-processed screens prepared from original electronic art.
  7. Use only weather-resistant coating materials that are compatible with substrates.
  8. Silk-screening shall be highest quality, with sharp lines and no sawtooths or uneven ink coverage.
  9. Images shall be uniform in color and ink thickness.
  10. Images shall be free from squeegee marks and lines resulting from improper print stroke or screen off contact height.

## PART 3 - EXECUTION

### 3.1 DEMOLITION

- A. It is required that the fabricator remove existing signs as identified in the bidding documents.
- B. Fabricator is to remove all below grade footings and foundations completely and fill with compacted soil.
- C. For individual letters, Fabricator is to remove the sign, fill holes, power wash the façade and touch-up paint as required.
- D. If there are electrical connections, they must be properly terminated.
- E. Fabricator is responsible for disposal of existing signage. Recycling is recommended. Open dumping is prohibited. Coordinate with Owner's Representative.
- F. Fabricator is to repair and bring to consistent look with surrounding area, any areas damaged or left exposed in an unfinished condition due to the removal of a sign.

### 3.2 INSTALLATION

- A. Permits and Variances:
1. Research relevant local code requirements and honor the same in fabrication and installation.
  2. Secure any and all necessary permits for signage installation. Coordinate with the Owner to secure variances, should any be required.
  3. Coordinate with the Owner to have all underground utilities properly located and marked. Any damage to below-grade utilities or structures for which the Owner or Owner's Representative has provided adequate location information is the responsibility of the Fabricator.
  4. The final Sign Message Schedule and Sign Location Plan shall be consulted together and shall be approved by the Owner to determine the precise location for each sign. Any necessary adjustments will be made with the approval of the Owner.
- C. If installation subcontractors are utilized, the Fabricator must provide a company representative to act as on-site supervisor through the duration of the installation process to oversee any subcontracted installation work.



# Fabrication Specifications

5. It's recommended that the concrete be floated by machine or hand before finishing in order to embed larger aggregates especially when part of the footing or base extends above ground.
6. Concrete surface should have a smooth or brushed finish grade appearance. Match the finish appearance of connecting concrete surfaces when applicable.
7. All concrete bases and footings should be edged to break any bond with the form and create a neat appearance. All forms should be removed once the concrete has properly cured.
8. Provide the necessary templates, mounting plates and hardware for concrete and masonry bases.
9. All masonry (concrete block, poured concrete, brick, slab, veneer, mortar, etc.) is to be properly treated and protected to maintain the structural integrity of the masonry work with exposure to all environmental conditions found at the site. For exposed or visible masonry, this shall include the application of protective sealers or similar finishes to diminish the effects of close-proximity sprinkling or irrigation systems.
10. Wet concrete with footers and posts must fully cure in place before signage is installed on the footers or mounted to the posts.

## H. Mounting:

1. Signs are to be mounted on J-bolt footings or breakaway bases, centered on the concrete base or footing, and engineered per code, unless otherwise specified in the design drawings or required by code.
2. For all bolts, nuts, washers and other fasteners, Fabricator to match material and finish as used in sign. When fastening dissimilar materials, use stainless steel 300 series. OR It is preferred that all bolts, nuts, washers, or other fasteners be stainless steel. However galvanized steel is acceptable, so long as all exposed surfaces are sealed.
3. Fabricator is required to specify mounting hardware and anchoring per the engineering of the signage. The visual appearance of the sign is not to be compromised from that shown in the design drawings.
4. Install all signage products such that there are no misalignments between visible components. Sign elements intended to be removable or changeable after installation must function as intended without binding, sticking or blocking.

5. All signs to be mounted level and true, and within the guidelines of applicable local, state and federal codes including, but not limited to, the 2010 Standards for Accessible Design (ADA) and fire/life safety codes, where applicable.
  - a. If signs are to be installed in a parking garage where the structural elements are not level due to the grade of the garage, the Owner is to decide whether the sign should be mounted level or aligned with the structural elements.
- I. Locating Signs:
  1. Fabricator's installers must have applicable understanding of the 2010 Standards for Accessible Design (ADA) mounting guidelines, city zoning and other applicable federal, state and local codes, general sign locating practices, and any particular unique installations.
  2. Installers are to follow the regulations, noted guidelines, and architectural details around an installation location for the best visual placement.
  3. Keep a reasonable distance from protruding objects.
  4. Any signage that is improperly located is to be moved to the proper location, and all repairs to wall surfaces and signage are to be handled by the Fabricator.
  5. If the installers are unable to make a decision about any sign locations, they can contact the Designer, providing a graphic representation of the questionable area, or contact the Owner's Representative for on-site options. If there is a code requirement regarding the sign location, the installer must notify the Owner's Representative of the requirement.
- J. Upon completion of installation, Fabricator is to remove any protective covering, tape, or installation hardware. Fabricator is then to clean the sign per the manufacturer recommendations, ensuring that sign is clean from dirt, stains, fingerprints, tape residue, etc.
- K. All exposed hardware is to be touch-up painted on site as required immediately following installation prior to punch list.
- L. All minor blemishes or marring are to be repaired such that the repairs are imperceptible. Components having permanent, non-removable scratches or defects are to be replaced completely.

## M. Site Safety and Restoration:

1. Fabricators are responsible for their own safety during the installation period.
2. Maintain a safe environment for pedestrians and vehicular traffic during the installation period, following OSHA safety standards as necessary.
3. Keep the Owner's premises and the adjoining premises, driveways and streets clean and clear.
4. Job site shall be left safe, neat and clean at the completion of each day's operation.
5. In addition to maintaining old or temporary signs for their directional or informational purposes, Fabricator is to maintain signage that meets or exceeds MUTCD and local standards during the installation period.
6. At the completion of work, remove all rubbish, tools, equipment, and surplus materials, from and about the premises, and leave the site as originally found.
7. Repair or correct damage to other contractors' work resulting from signage installation work.

## 3.2 PUNCH LIST

- A. The Fabricator's onsite representative is to complete a walk through with the Owner's Representative immediately following installation to identify any errors, such as construction or installation issues. Such errors are to be corrected in a timely manner, and to the satisfaction of the Owner's Representative.
- B. Fully replace all signs that are in error relative to the working documents (final sign message schedule and design drawings).
- C. Correct any installation misalignments at no charge.
- D. If the Fabricator agrees to a timeline for the Designer's punch list trip, and then does not complete their scope of work in time for the site visit, requiring the trip to be delayed, the Fabricator will be responsible for associated charges in rescheduling.

## END OF SECTION

## Color Palette

	Greenbelt Logo Colors							
	① Black	② Dark Green	③ Light Blue	④ Medium Green	⑤ Medium Blue	⑥ Bright Green	⑦ White	⑧ Gold Metallic
Pantone®:	---	---	---	---	---	---	---	---
AKZO Nobel:	---	Dark Green 453G4	---	---	---	---	---	Gold Metallic 319E5
Vinyl:	---	---	---	---	---	---	---	---
3M Sherine ColorTarget:	---	---	---	---	---	---	---	---
Powder-coat:	---	---	---	---	---	---	---	---

Fabricator is responsible for matching all colors and materials as specified and are required to provide the Owner color and material samples for approval.

**CAUTION!**  
CONSISTENT AND ACCURATE COLOR REPRODUCTION IN THIS DOCUMENT CANNOT BE ASSURED DUE TO THE LIMITATIONS OF COLOR COPYING TECHNOLOGY.

The Coated Pantone Matching System® and Matthews Acrylic Polyurethane are used for specifying signage color matches. (In the absence of actual sign material color chip reference sets, actual specified product color swatches should be referenced for color matching.)

Shown here are approximations of the primary signage background colors and supporting accent colors. Actual color finishes on signage must be satin or low luster (not shiny or glossy) and exclusively a premium acrylic polyurethane.

Signage paints produced by Matthews Paint Company or AKZO Nobel are to be the standard reference.

Vinyl Films from 3M are to be the standard.

Color application varies per sign type. Refer to specific design intent drawings for application details.

## Typography

Gotham XNarrow Medium

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1234567890

Gotham XNarrow Book

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1234567890

Gotham Condensed Book

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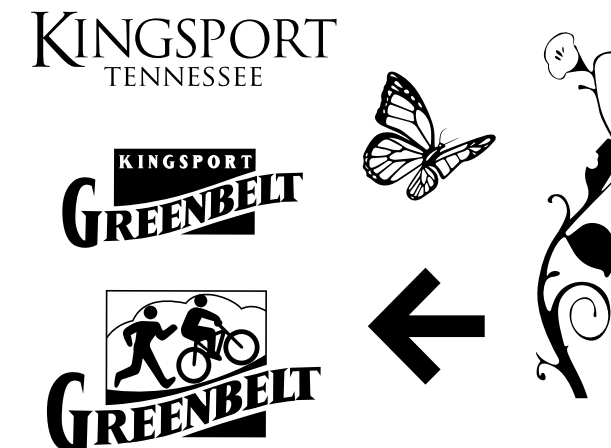
Gotham Medium

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1234567890

## Symbols

Parking [1]	Wheelchair Accessible [2]	Scenic Overlook [3]	Information [4]	Picnic Area [5]	Restrooms [6]	Bike Rack [7]	Trailhead [8]	Fishing [9]	Boat Launch [10]	Food [11]
Bicycle Trail [12]	Recreation [13]	Drinking Water [14]	Playground [15]	Interpretive Exhibit [16]	Litter Receptacle [17]	Interpretive Path [18]	Wildlife Viewing [19]	Swimming [20]	Pets on Leash [21]	Bus Stop [21]

## Artwork



### Sign Type

### Colors, Fonts and Symbols

### Scale

### Color Code

①		Black
②		Dark Green
③		Light Blue
④		Medium Green
⑤		Medium Blue
⑥		Bright Green
⑦		White
⑧		Gold Metallic

### Notes

This drawing is design-intent only. Fabricator is responsible for fabrication and overall level of quality. Any changes in design, materials, fabrication method or other details must be approved by Corbin Design or the Owner.

### Date Description

09.27.17 First Submission

### Client

City of  
KINGSPORT  
TENNESSEE

**corbindesign**

109 East Front Suite 304  
Traverse City, MI 49684  
231 947.1236

Sign Type

**Pedestrian Kiosk Accessibility Guidelines**

Scale

Not to scale

Color Code

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

Notes

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Date Description

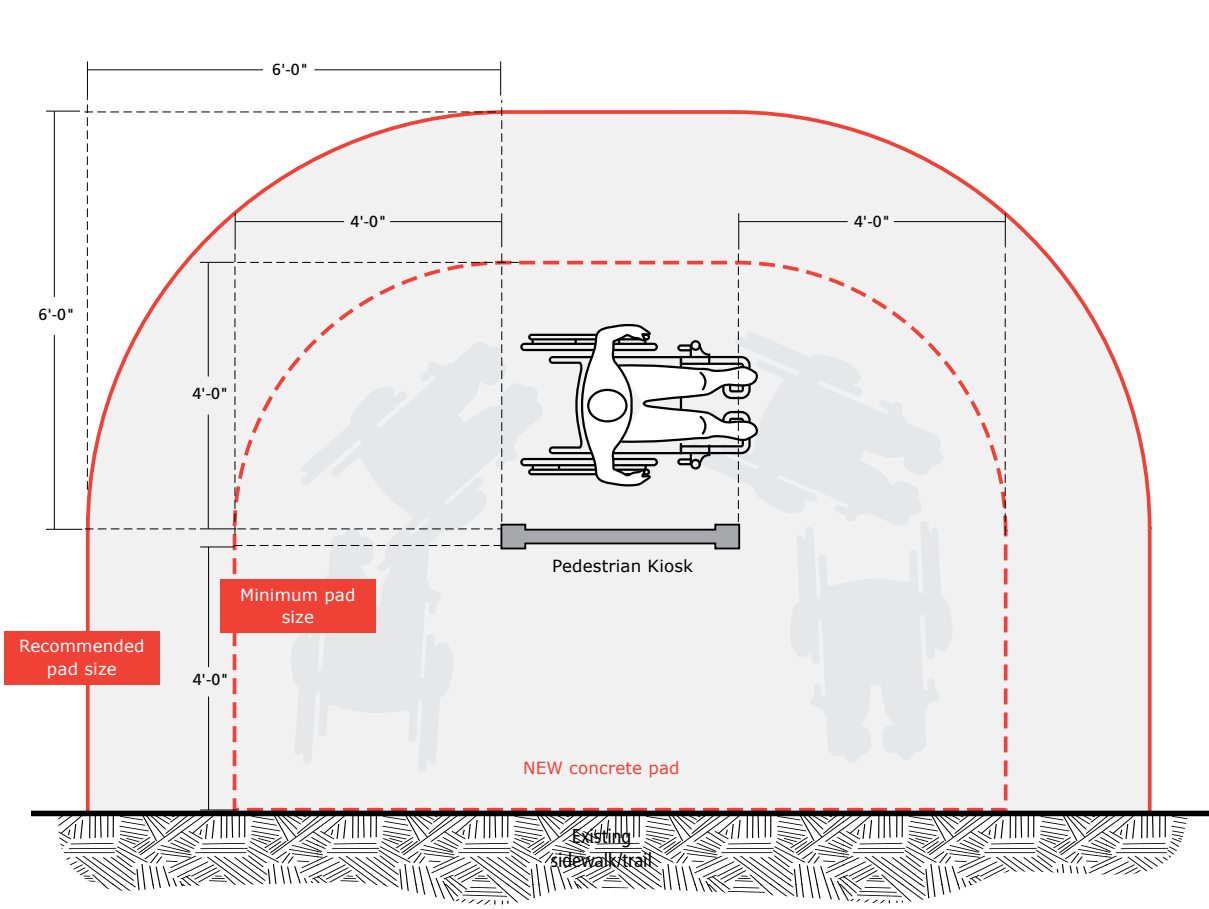
09.27.17 First Submission

Client

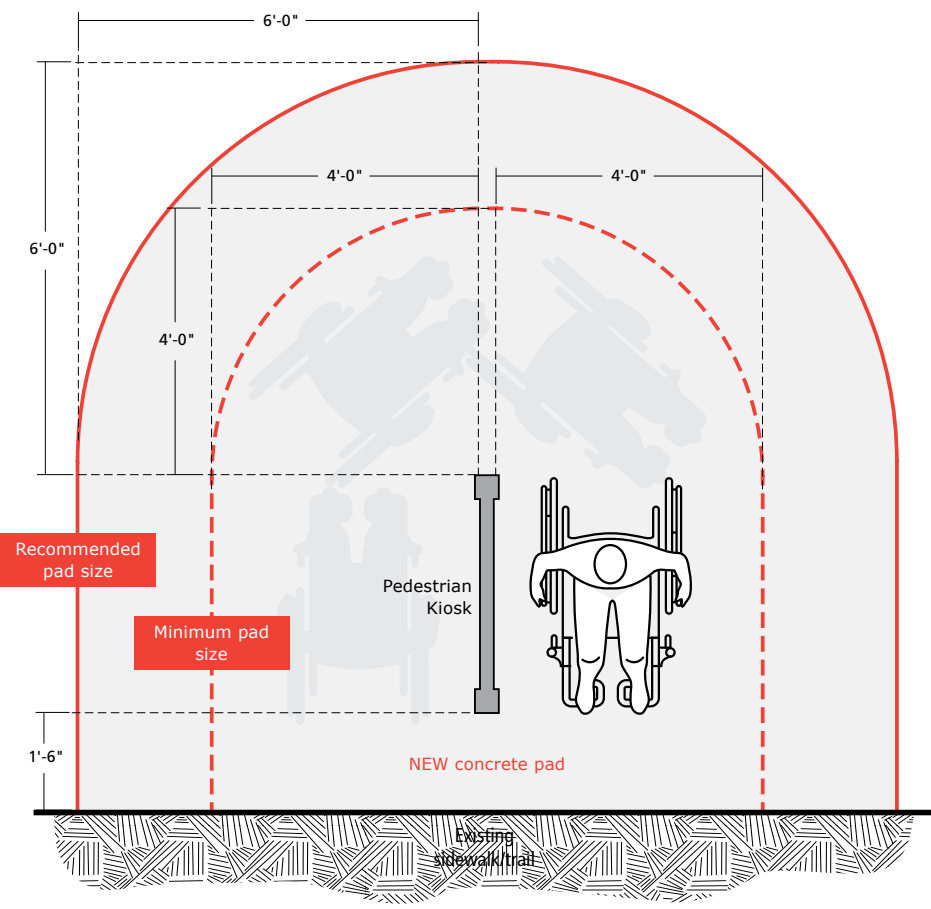
City of  
**KINGSPORT**  
TENNESSEE

**corbindesign**

109 East Front Suite 304  
Traverse City, MI 49684  
231 947.1236



**Condition 1**  
Kiosk parallel to sidewalk/trail



**Condition 2**  
Kiosk perpendicular to sidewalk/trail

**ATTENTION**

Concrete pad to meet City of Kingsport TN sidewalk standards. Transition between surfaces to follow Section 303 of the 2010 ADA Standards for Accessible Design.

Sign Type

**Pedestrian Kiosk Accessibility Guidelines**

Scale

Not to scale

Color Code

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

Notes

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Date Description

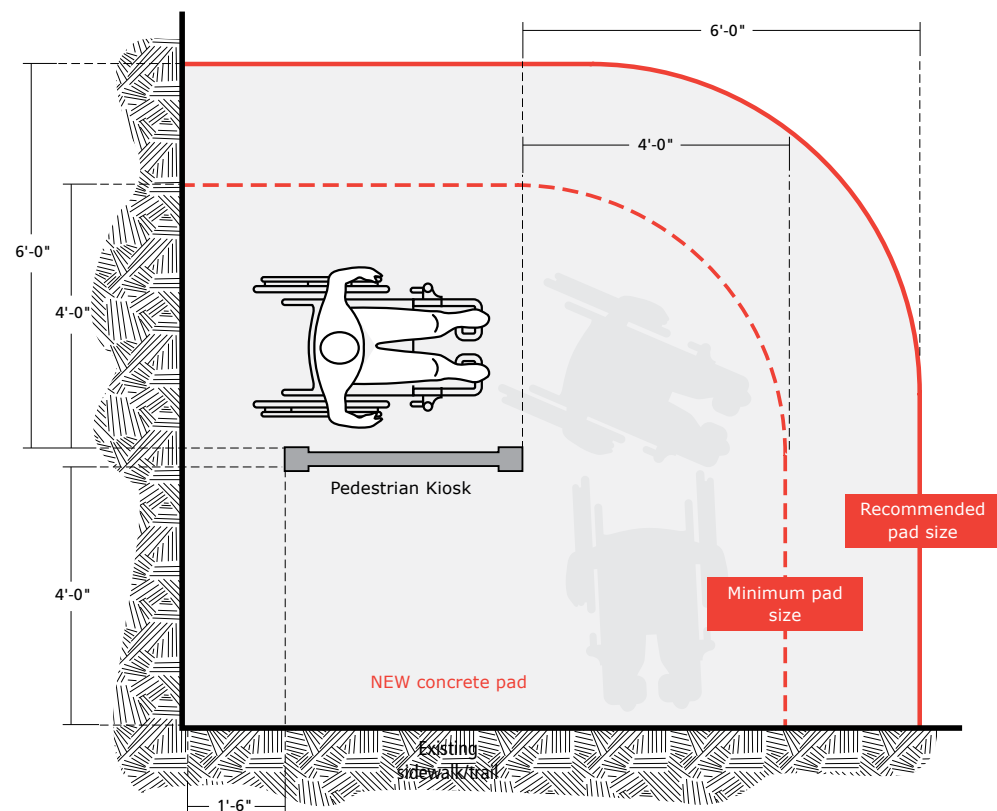
09.27.17 First Submission

Client

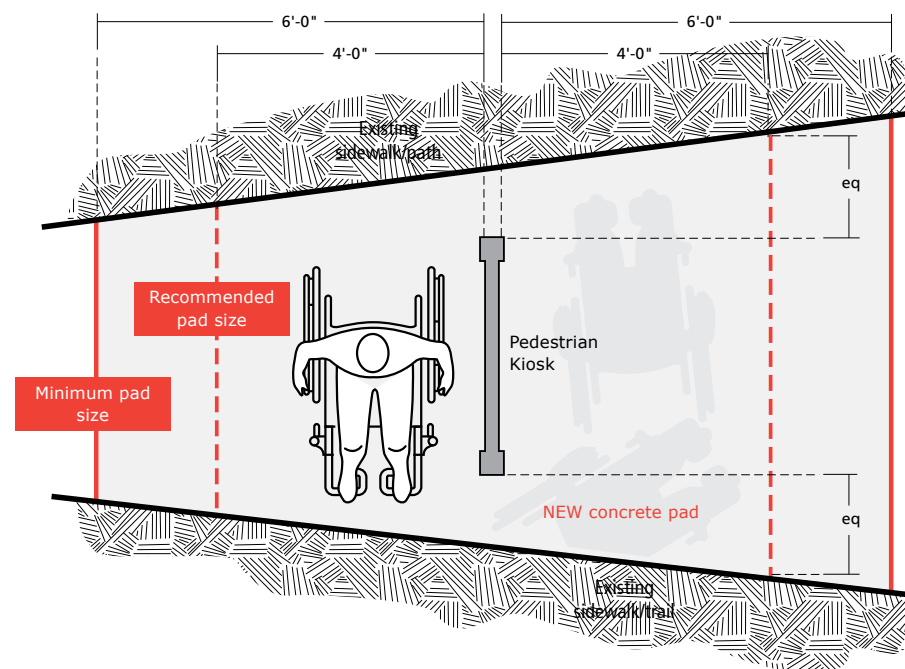
City of  
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TENNESSEE

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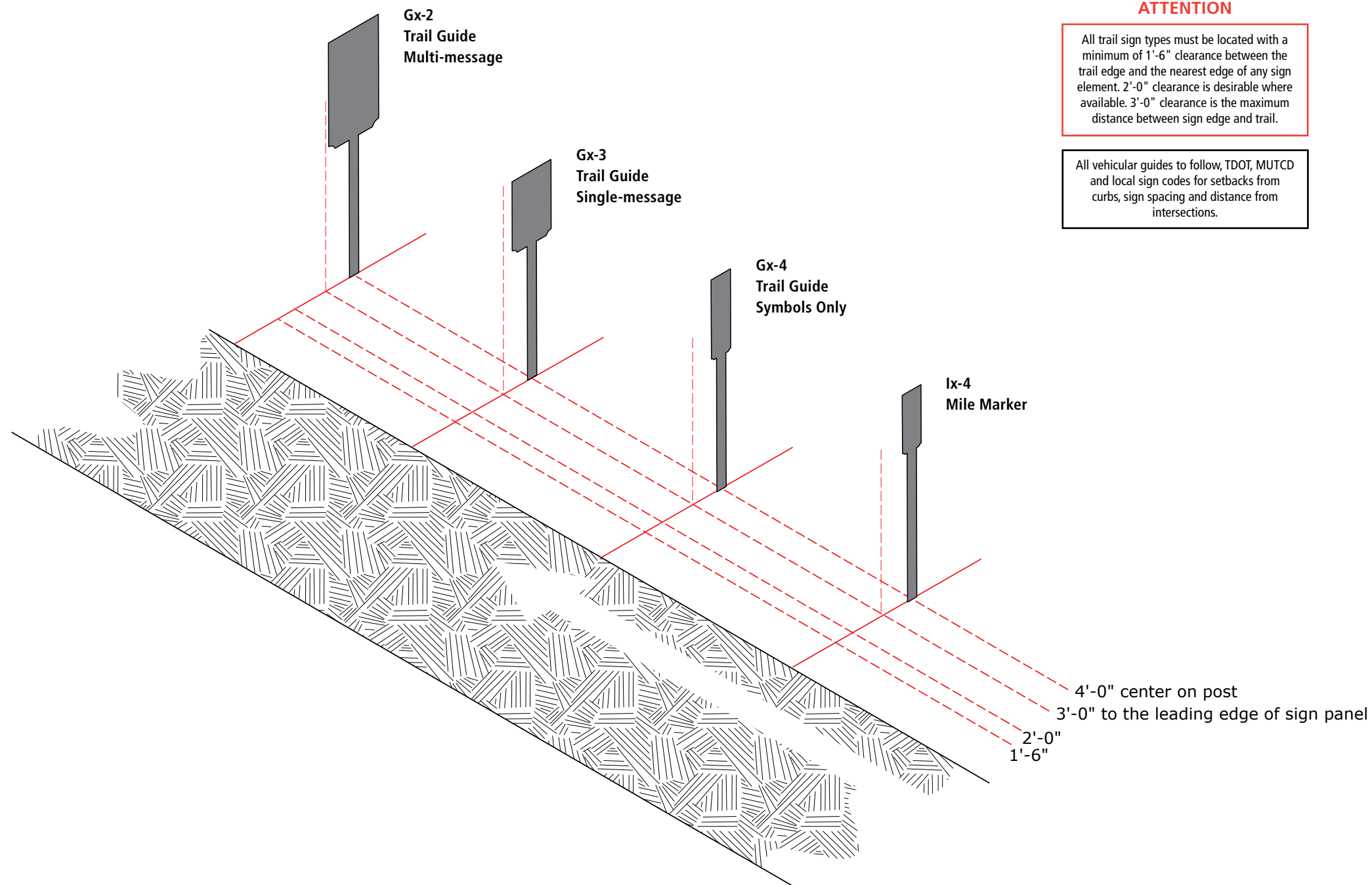
**Condition 3**  
Kiosk in corner of sidewalk/trail



**Condition 4**  
Kiosk in gore of sidewalk/trail

**ATTENTION**

Concrete pad to meet City of Kingsport TN sidewalk standards. Transition between surfaces to follow Section 303 of the 2010 ADA Standards for Accessible Design.



**ATTENTION**

All trail sign types must be located with a minimum of 1'-6" clearance between the trail edge and the nearest edge of any sign element. 2'-0" clearance is desirable where available. 3'-0" clearance is the maximum distance between sign edge and trail.

All vehicular guides to follow, TDOT, MUTCD and local sign codes for setbacks from curbs, sign spacing and distance from intersections.

**Sign Type**

**Typical Mounting Types**

**Scale**

Not to scale

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

**Notes**

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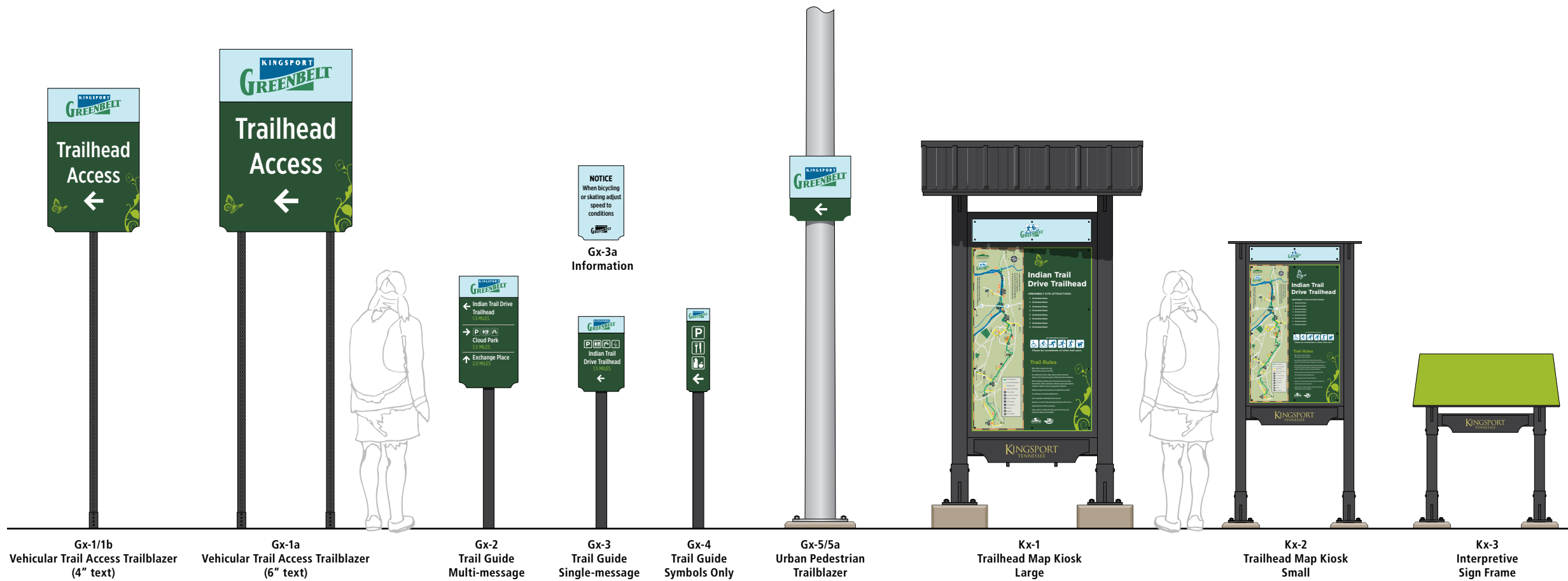
**Date Description**

09.27.17	First Submission
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**Client**

City of  
**KINGSPORT**  
TENNESSEE

**corbindesign**  
109 East Front Suite 304  
Traverse City, MI 49684  
231 947.1236



**Sign Type**

**Sign Type Array**

**Scale**

Not to scale

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

**Notes**

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**Date Description**

Date	Description
09.27.17	First Submission

**Client**

City of  
**KINGSFORT**  
TENNESSEE

**corbindesign**

109 East Front Suite 304  
Traverse City, MI 49684  
231 947.1236





**Gx-1 Front View**

**Signs in the right-of-way**  
Post, Sign Supports, Footings, Mounting Heights, Breakaways will be installed per TDOT's Standard Plans and Specifications for Highway Signage Construction.

**Gx-1 Side View**

**Gx-1 Back View**

**Gx-1b Front View**

**Gx-1b Side View**

**Sign Type**

**Gx-1/1b Vehicular Trail Access Trailblazer (4" text)**

**Scale**

1/2" = 1'-0"  
(on an 11 x 17 sheet)

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

**Notes**

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**Date Description**

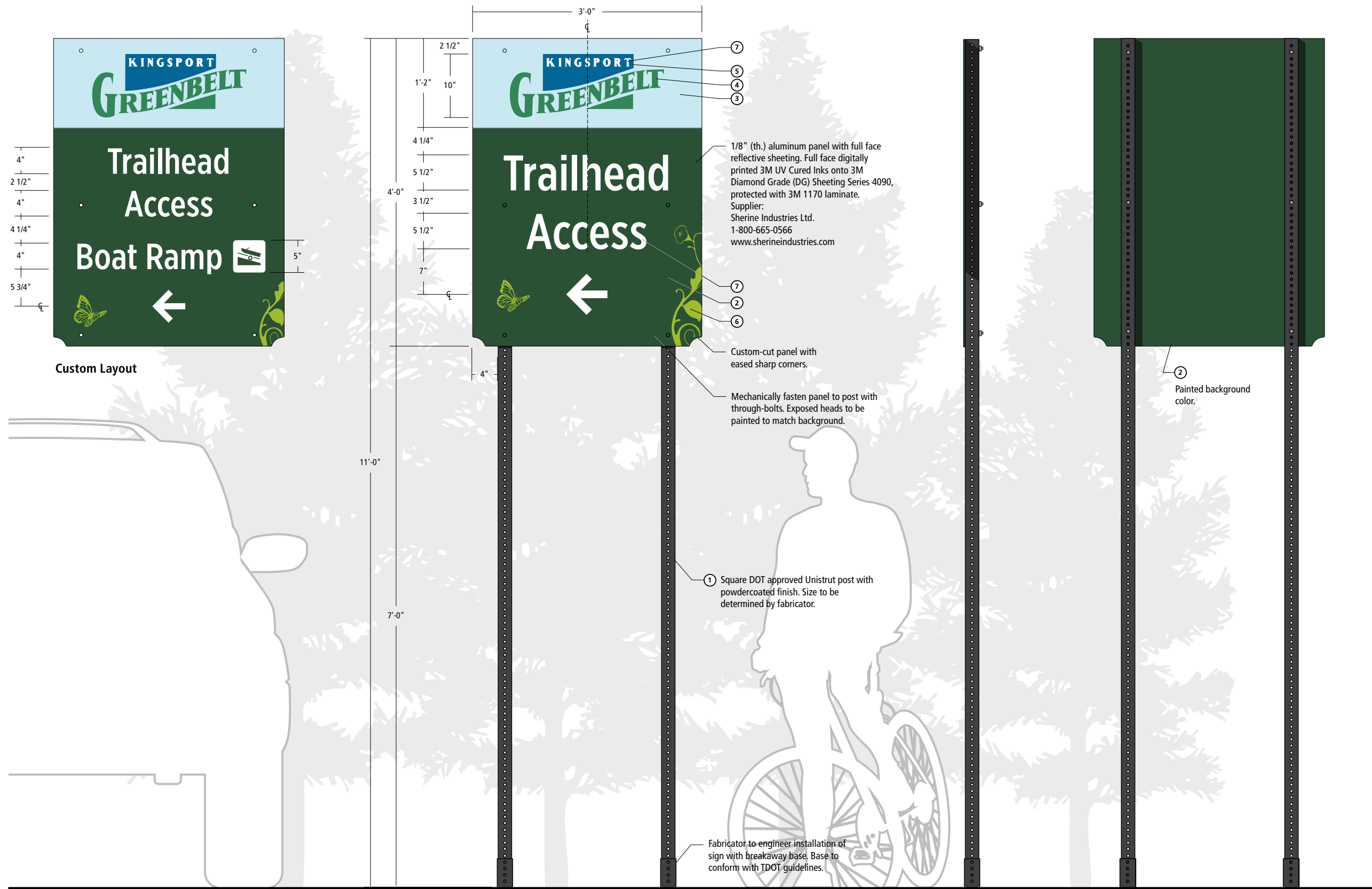
Date	Description
09.27.17	First Submission

**Client**

City of  
**KINGSPORT**  
TENNESSEE

**corbindesign**

109 East Front Suite 304  
Traverse City, MI 49684  
231 947.1236



**Sign Type**

**Gx-1a Vehicular Trail Access Trailblazer (6" text)**

**Scale**

1/2" = 1'-0"  
(on an 11 x 17 sheet)

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

**Notes**

This drawing is design-intent only. Fabricator is responsible for fabrication and overall level of quality. Any changes in design, materials, fabrication method or other details must be approved by Corbin Design or the Owner.

**Date Description**

Date	Description
09.27.17	First Submission

**Client**

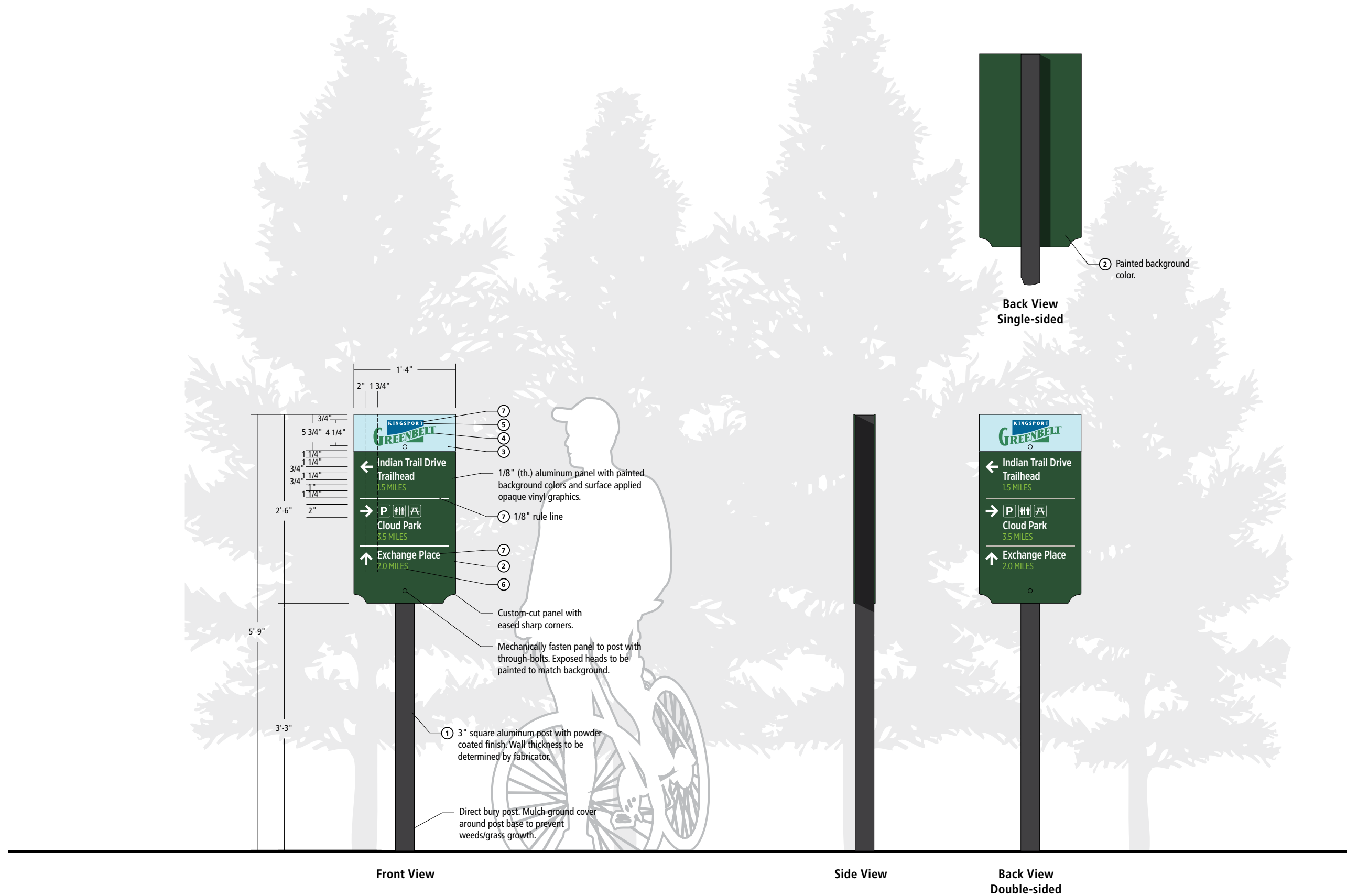
City of  
**KINGSPORT**  
TENNESSEE

**corbindesign**

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231 947.1236

**Signs in the right-of-way**  
Post, Sign Supports, Footings, Mounting Heights, Breakaways will be installed per TDOT's Standard Plans and Specifications for Highway Signage Construction.





**Sign Type**

**Gx-2 Trail Guide Multi-message**

**Scale**

1/2" = 1'-0"  
(on an 11 x 17 sheet)

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

**Notes**

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**Date Description**

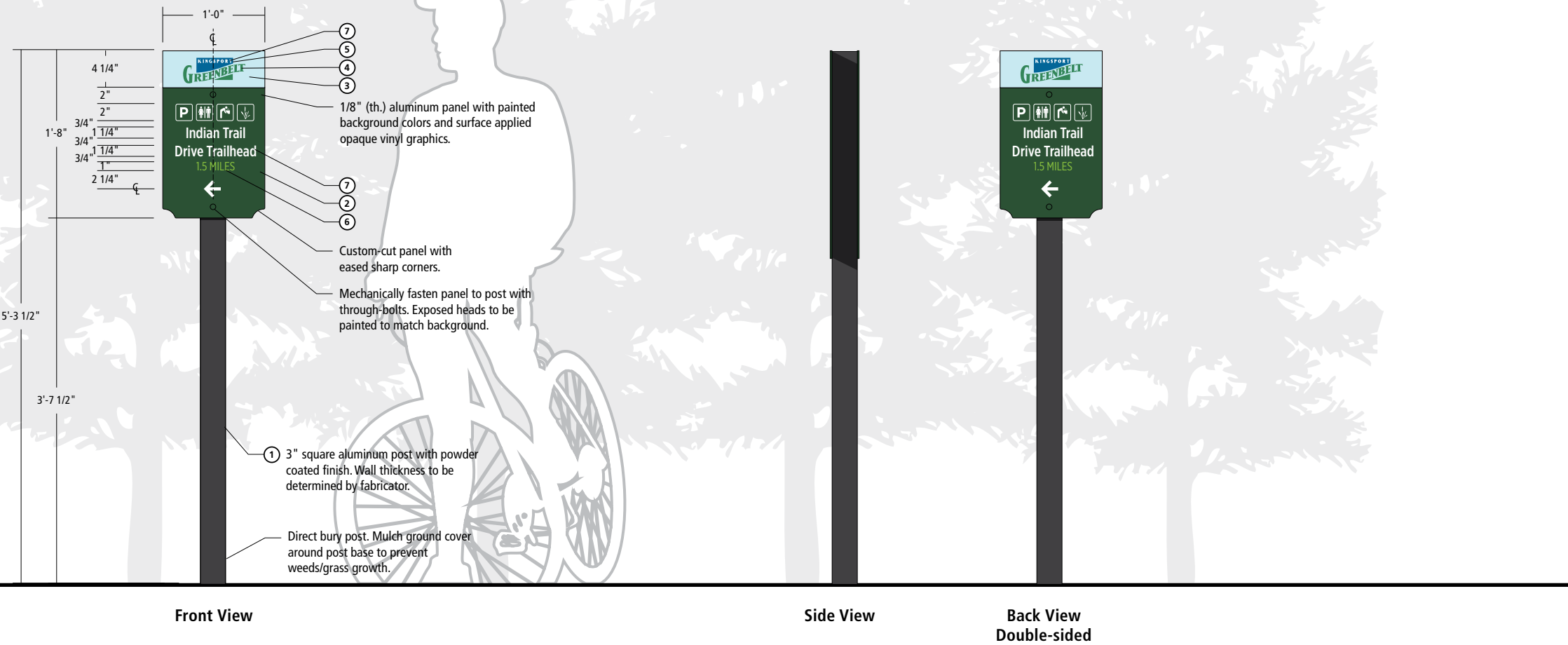
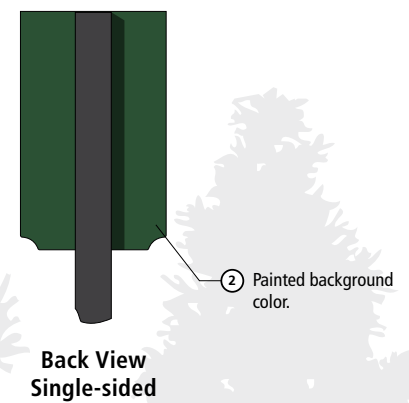
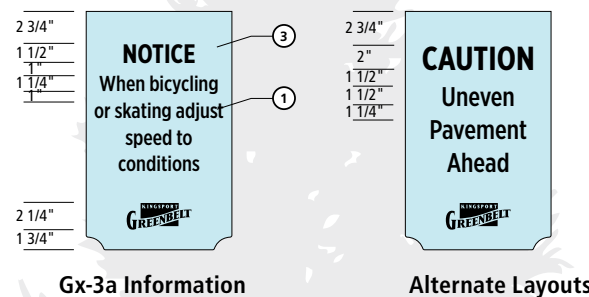
Date	Description
09.27.17	First Submission

**Client**

City of  
**KINGSFORT**  
TENNESSEE

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Traverse City, MI 49684  
231 947.1236



**Sign Type**

**Gx-3 Trail Guide Single-message, Gx-3a Information**

**Scale**

1/2" = 1'-0"  
(on an 11 x 17 sheet)

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

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**Date Description**

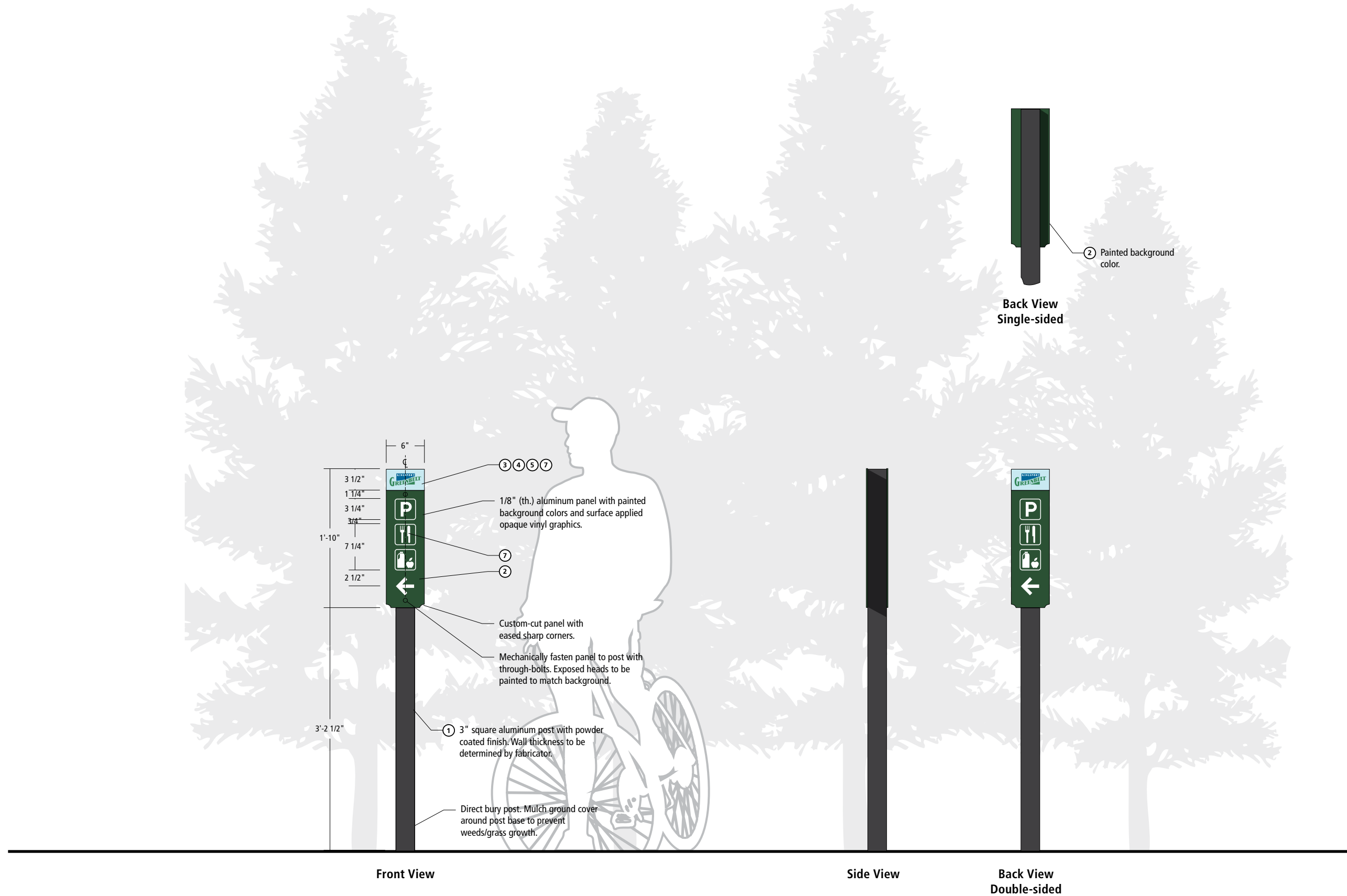
Date	Description
09.27.17	First Submission

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**Sign Type**

**Gx-4 Trail Guide Symbols Only**

**Scale**

1/2" = 1'-0"  
 (on an 11 x 17 sheet)

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

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**Date Description**

Date	Description
09.27.17	First Submission

**Client**

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**Sign Type**

**Gx-5 Urban Pedestrian Trailblazer - Existing Pole**

**Scale**

1/2" = 1'-0"  
(on an 11 x 17 sheet)

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

**Notes**

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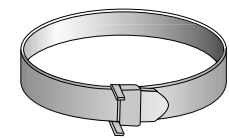
**Date Description**

Date	Description
09.27.17	First Submission

**Client**

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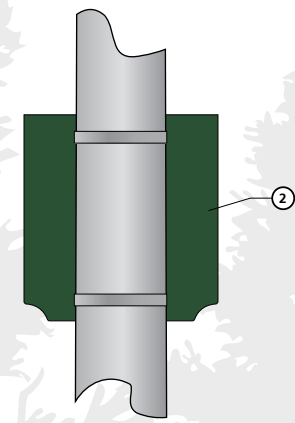


**Bucklestrap**  
Stainless steel band. Use to attach Universal Channel Clamp to round posts.

**Attachment Product available from:**  
www.band-it-idex.com

**WORLD HEADQUARTERS & WESTERN U.S. CUSTOMER SALES & SERVICE CENTER**  
BAND-IT - IDEX, INC.  
A Unit of IDEX Corporation  
4799 Dahlia St.  
P.O. Box 16307  
Denver, Colorado 80216-0307  
Ph: 303-320-4555  
FAX 303-333-6549

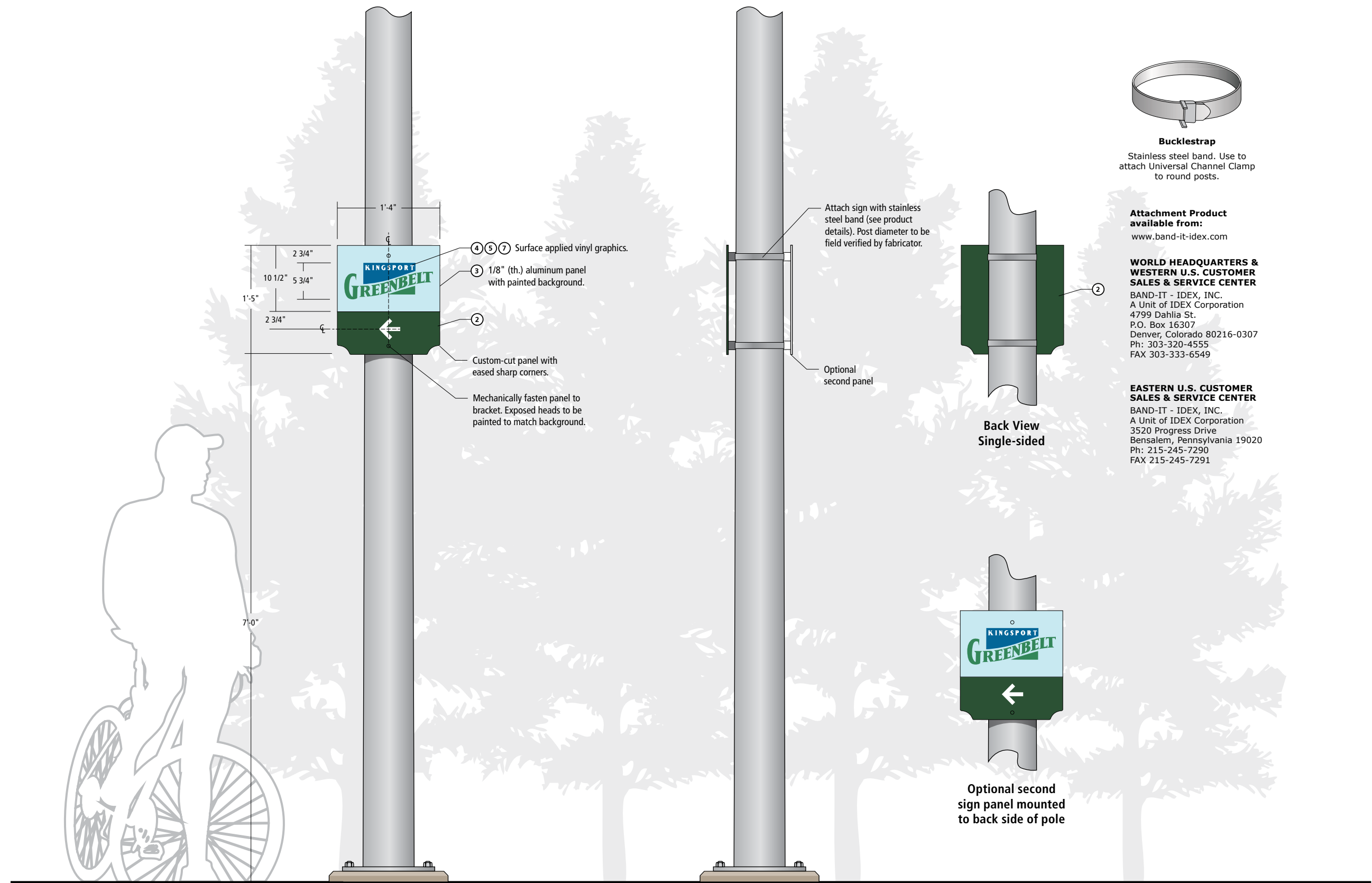
**EASTERN U.S. CUSTOMER SALES & SERVICE CENTER**  
BAND-IT - IDEX, INC.  
A Unit of IDEX Corporation  
3520 Progress Drive  
Bensalem, Pennsylvania 19020  
Ph: 215-245-7290  
FAX 215-245-7291



**Back View Single-sided**

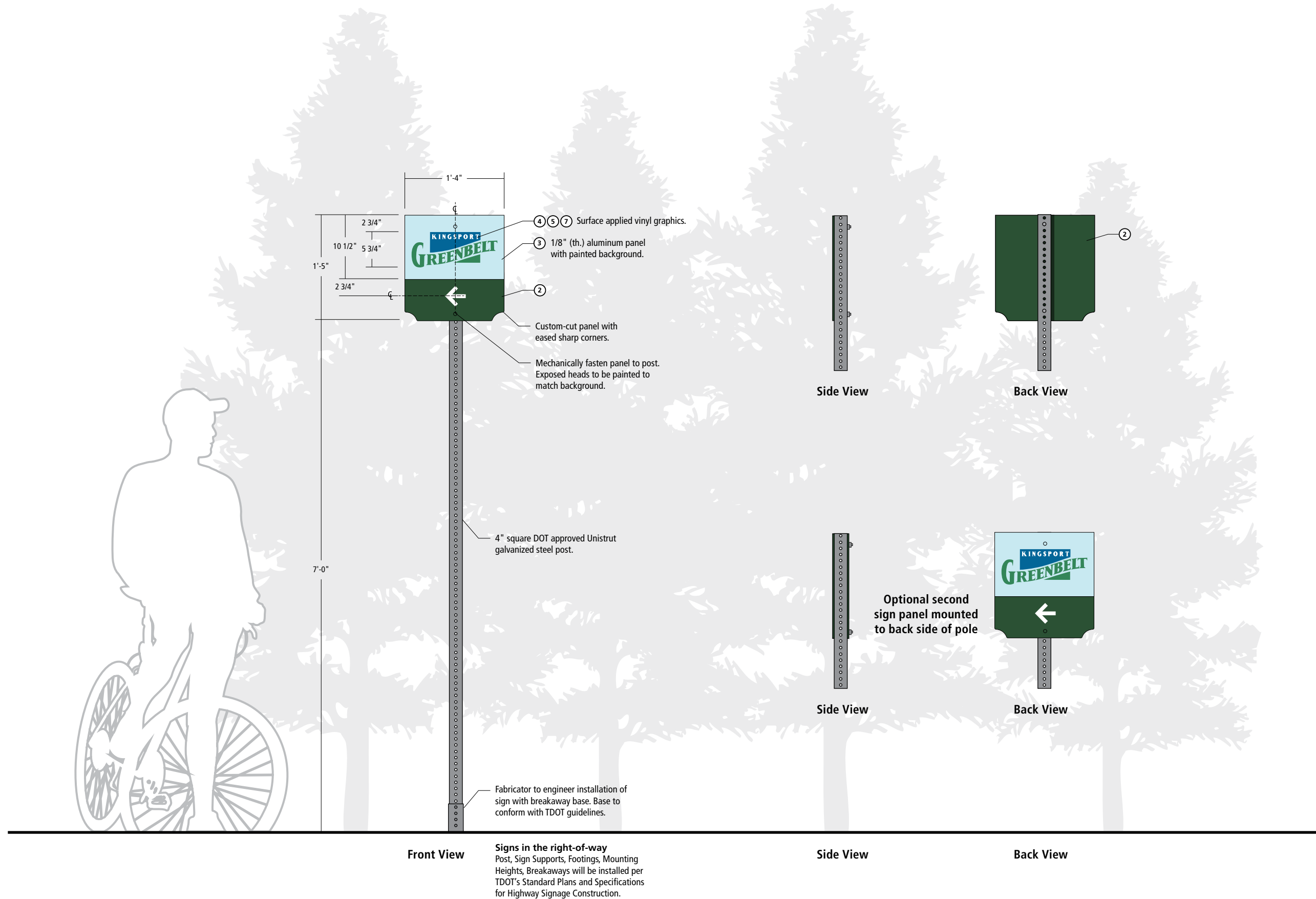


**Optional second sign panel mounted to back side of pole**



**Front View**

**Side View**



**Sign Type**

**Gx-5a Urban  
Pedestrian Trailblazer  
- New Post**

**Scale**

1/2" = 1'-0"  
(on an 11 x 17 sheet)

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

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**Date Description**

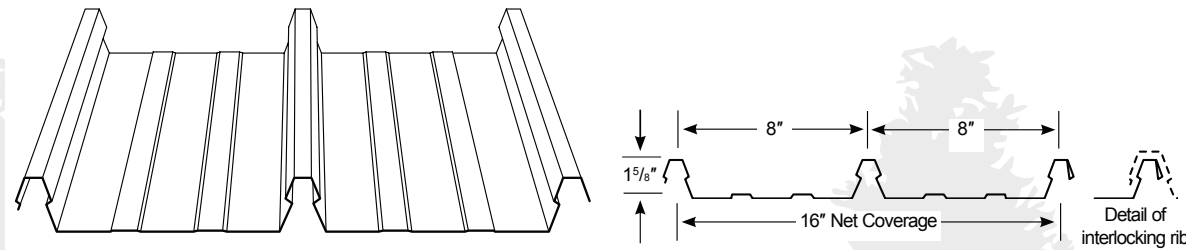
Date	Description
09.27.17	First Submission

**Client**

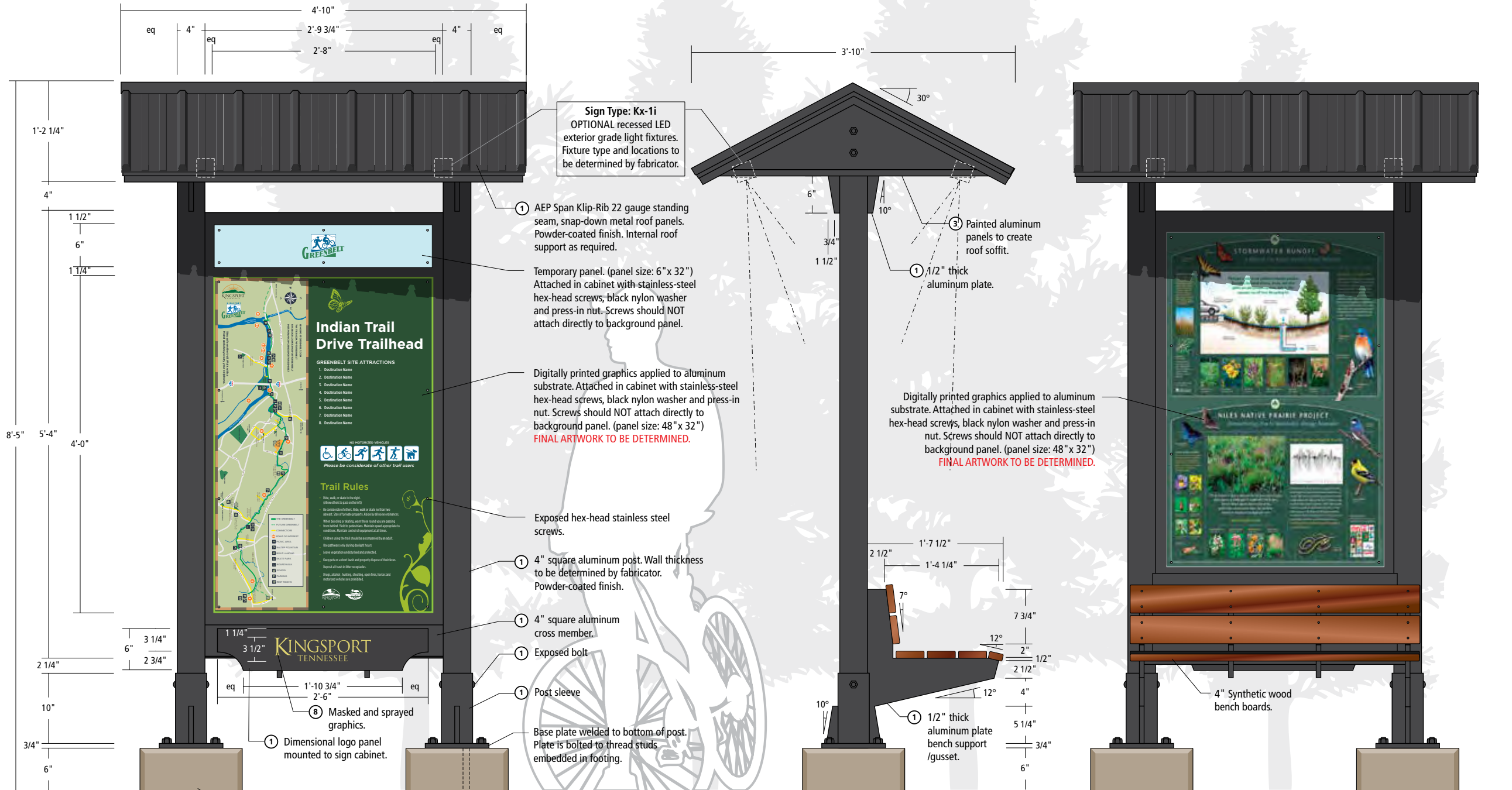
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**AEP Span**  
Tacoma, WA.  
Phone: 800-733-4955  
Fax: 253-272-0791  
www.aepspan.com



**Front View**  
Concrete footing to extend above grade. Surface to have appearance grade finish. Depth and reinforcement of footing to be engineered by fabricator.

OPTIONAL power supply pulled to location by owner.

**Side View**

**Back View**

**Sign Type**

**Kx-1 Trailhead Map Kiosk - Large (Kx-1i illuminated)**

**Scale**

1/2" = 1'-0"  
(on an 11 x 17 sheet)

**Color Code**

- 1 Black
- 2 Dark Green
- 3 Light Blue
- 4 Medium Green
- 5 Medium Blue
- 6 Bright Green
- 7 White
- 8 Gold Metallic

**Notes**

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**Date Description**

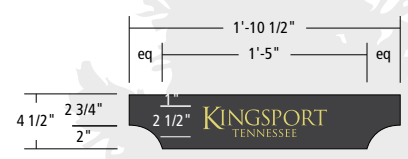
09.27.17 First Submission

**Client**

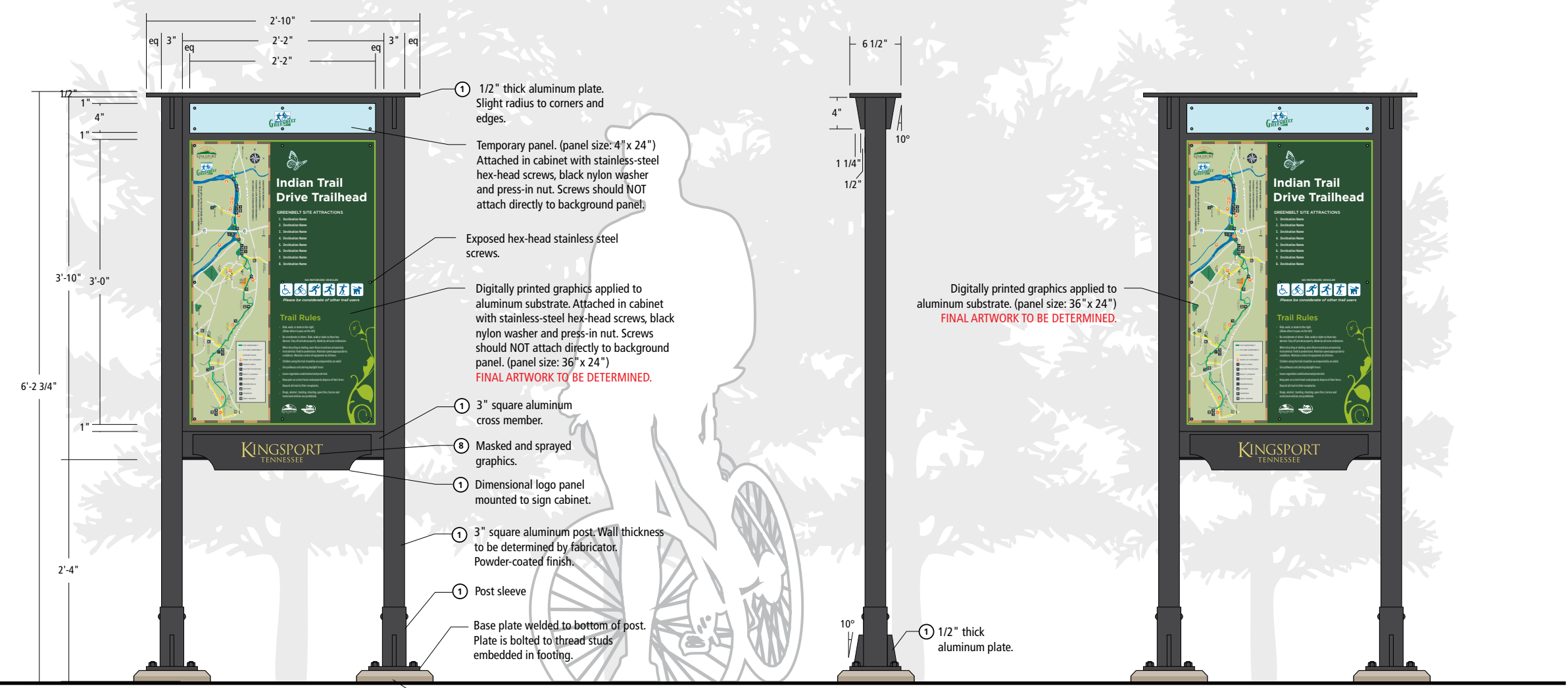
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City Logo Panel Detail



Front View

Side View

Back View

- ① 1/2" thick aluminum plate. Slight radius to corners and edges.
- Temporary panel. (panel size: 4" x 24") Attached in cabinet with stainless-steel hex-head screws, black nylon washer and press-in nut. Screws should NOT attach directly to background panel.
- Exposed hex-head stainless steel screws.
- Digitally printed graphics applied to aluminum substrate. Attached in cabinet with stainless-steel hex-head screws, black nylon washer and press-in nut. Screws should NOT attach directly to background panel. (panel size: 36" x 24") **FINAL ARTWORK TO BE DETERMINED.**
- ① 3" square aluminum cross member.
- ⑧ Masked and sprayed graphics.
- ① Dimensional logo panel mounted to sign cabinet.
- ① 3" square aluminum post. Wall thickness to be determined by fabricator. Powder-coated finish.
- ① Post sleeve
- Base plate welded to bottom of post. Plate is bolted to thread studs embedded in footing.

Digitally printed graphics applied to aluminum substrate. (panel size: 36" x 24") **FINAL ARTWORK TO BE DETERMINED.**

Concrete footing to extend above grade. Surface to have appearance grade finish. Depth and reinforcement of footing to be engineered by fabricator.

Sign Type

Kx-2 Trailhead Map Kiosk - Small

Scale

1/2" = 1'-0"  
(on an 11 x 17 sheet)

Color Code

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

Notes

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Date Description

Date	Description
09.27.17	First Submission

Client

City of  
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Sign Type

Kx-3 Interpretive Sign Frame

Scale

1/2" = 1'-0"  
(on an 11 x 17 sheet)

Color Code

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

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Date Description

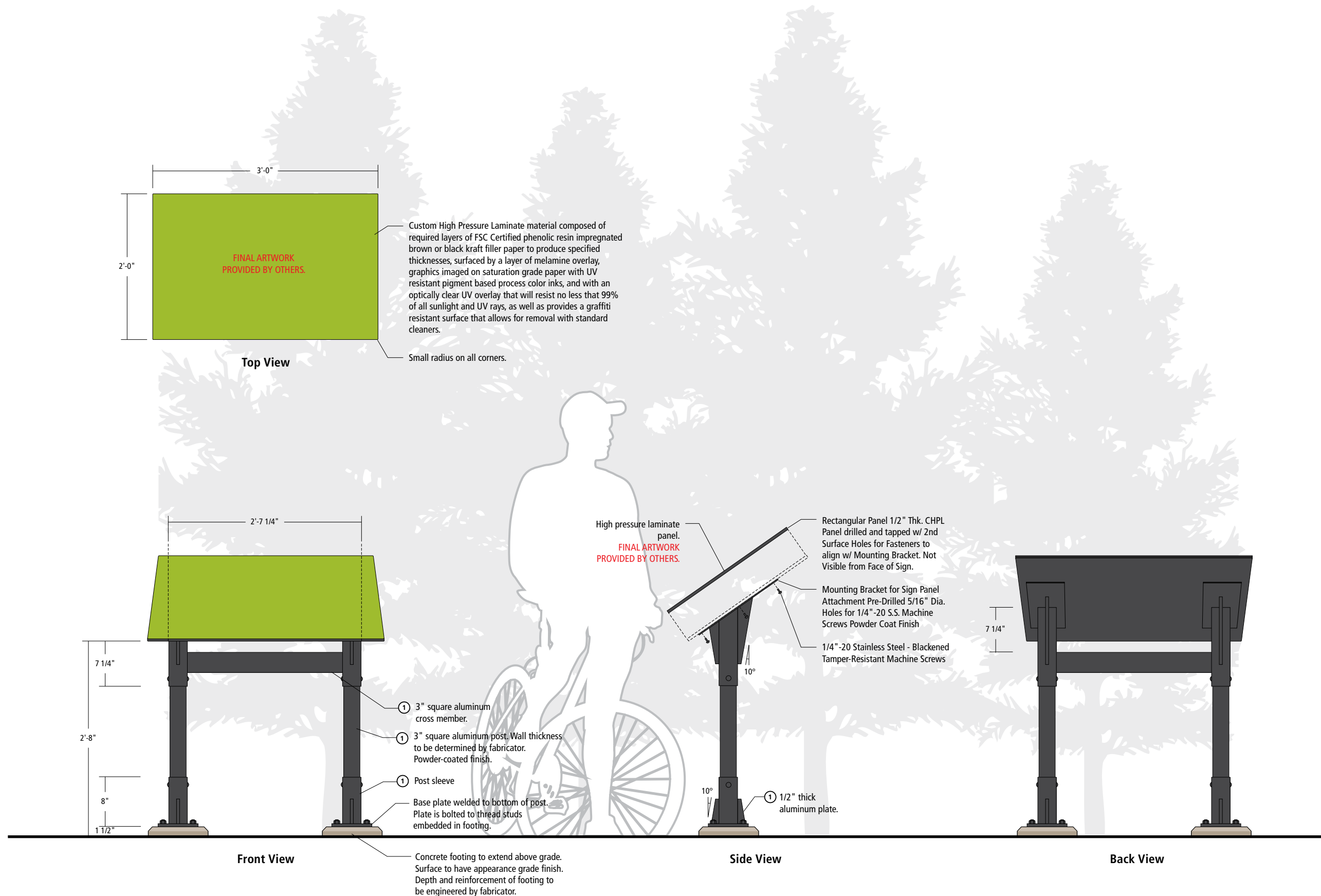
09.27.17 First Submission

Client

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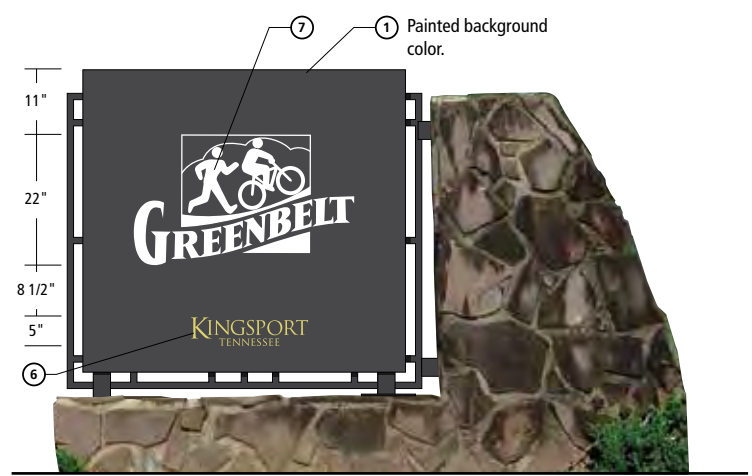




Existing Sign



Back View - Double-sided



Back View - Single-sided

**Sign Type**

**Ix-1/1a Vehicular Identification (Reuse existing base)**

**Scale**

1/2" = 1'-0"  
(on an 11 x 17 sheet)

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

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**Date Description**

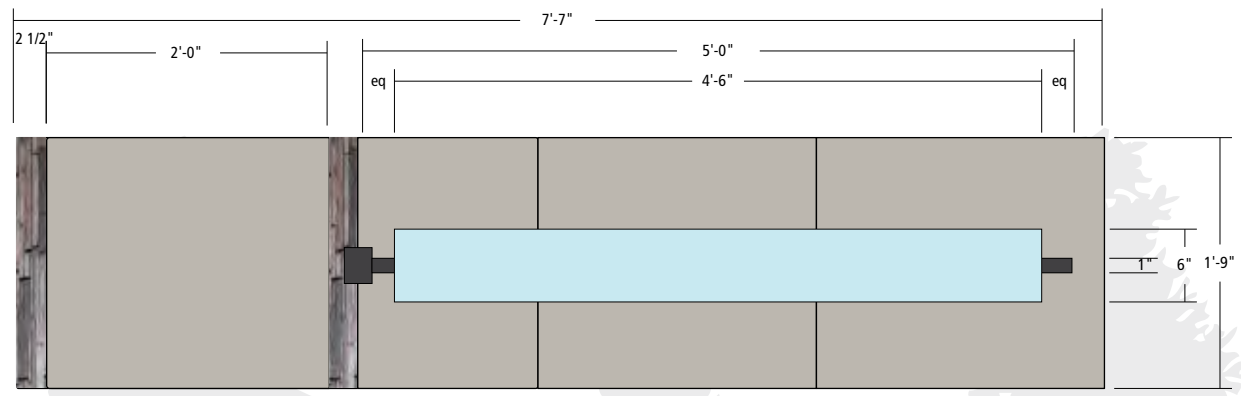
Date	Description
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**Client**

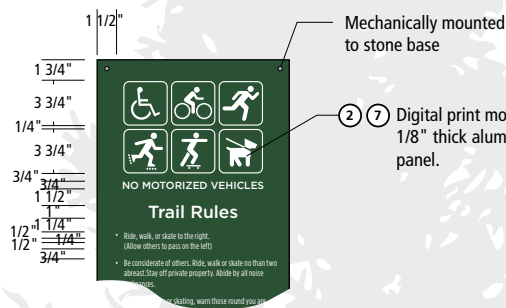
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Top View



Mechanically mounted to stone base

② ⑦ Digital print mounted to 1/8" thick aluminum panel.

① 1" x 1" square aluminum tube.

Sign cabinet with 1/8" (th.) aluminum panels, painted background colors and surface applied opaque vinyl graphics.

③ Color on return edges and top.

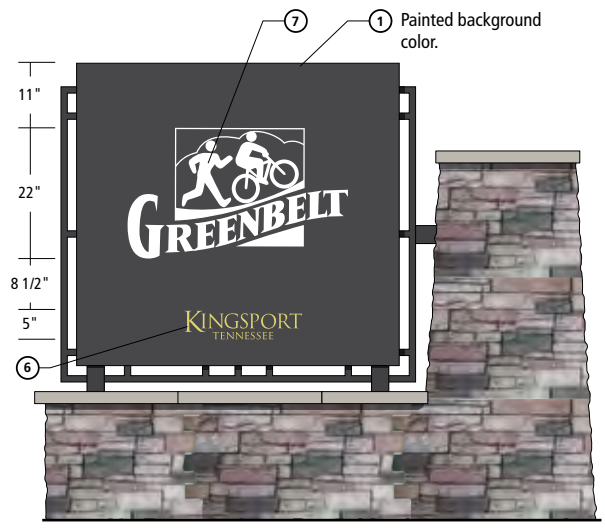


Front View

NEW stone base. Stone type and coursing to match existing city wayfinding program signage.



Back View - Double-sided



Back View - Single-sided

Sign Type

Ix-2/2a Vehicular Identification (New base)

Scale

1/2" = 1'-0"  
(on an 11 x 17 sheet)

Color Code

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

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Date Description

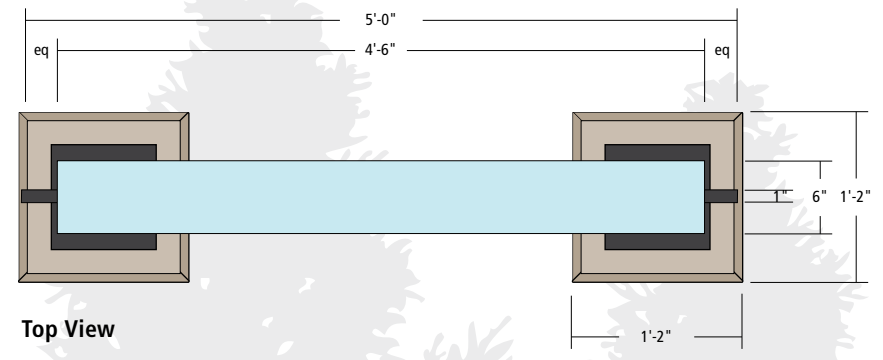
Date	Description
08.28.17	First Submission

Client

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Top View

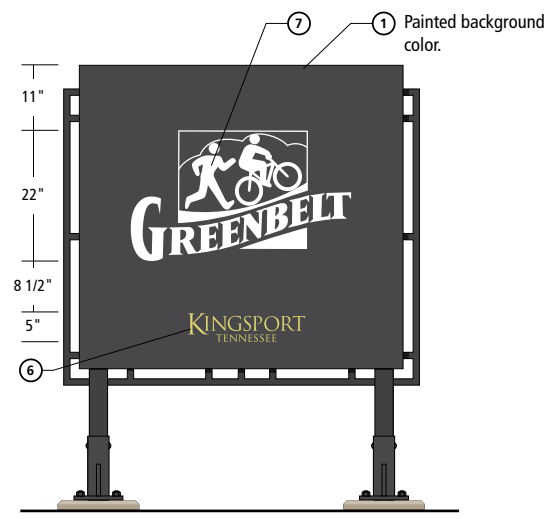


Front View

Side View



Back View - Double-sided



Back View - Single-sided

Sign Type

Ix-3/3a Vehicular Identification (No base)

Scale

1/2" = 1'-0"  
(on an 11 x 17 sheet)

Color Code

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

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Date Description

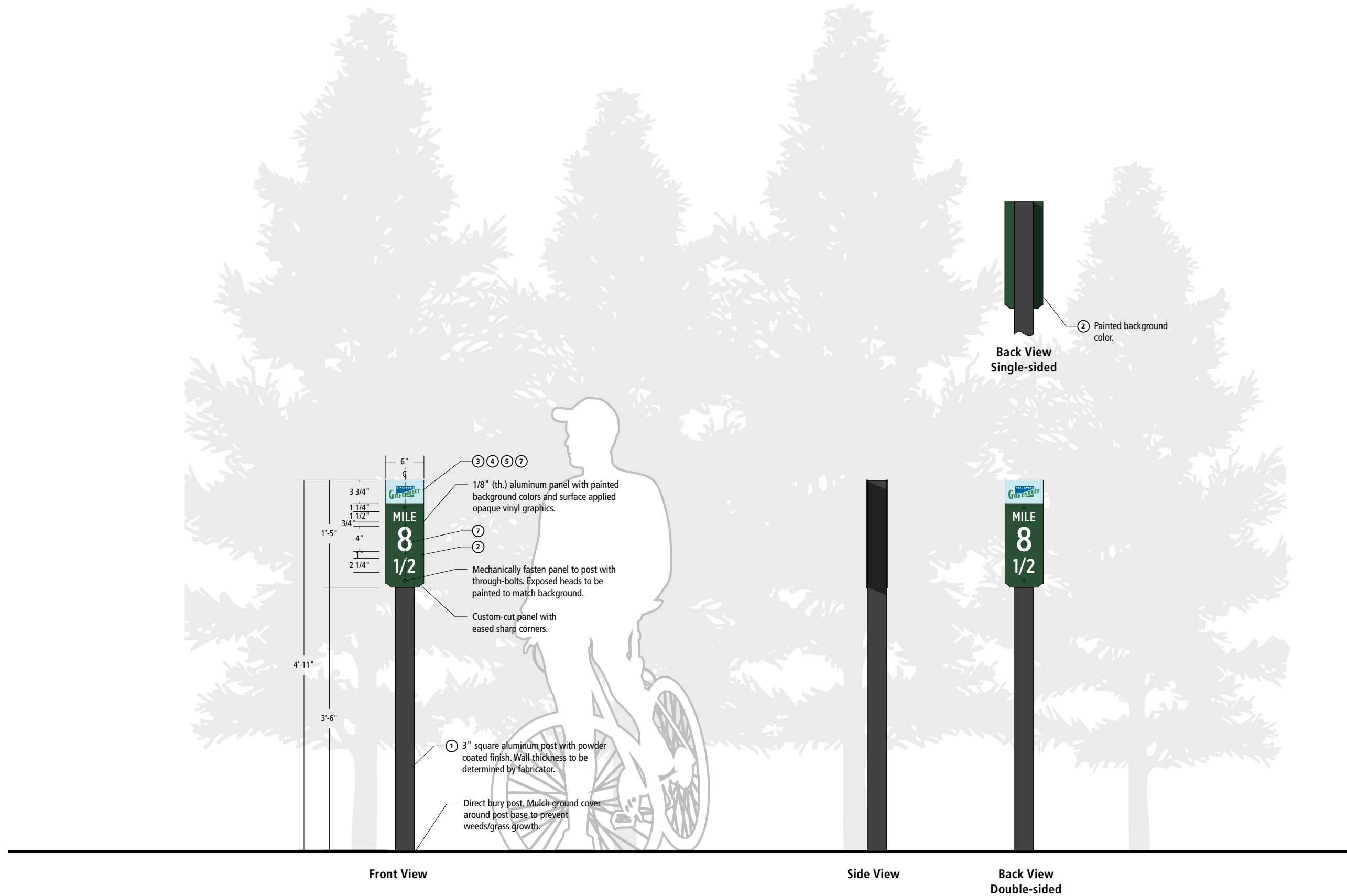
Date	Description
08.28.17	First Submission

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**Sign Type**

**Ix-4 Mile Marker**

**Scale**

1/2" = 1'-0"  
 (on an 11 x 17 sheet)

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

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**Date Description**

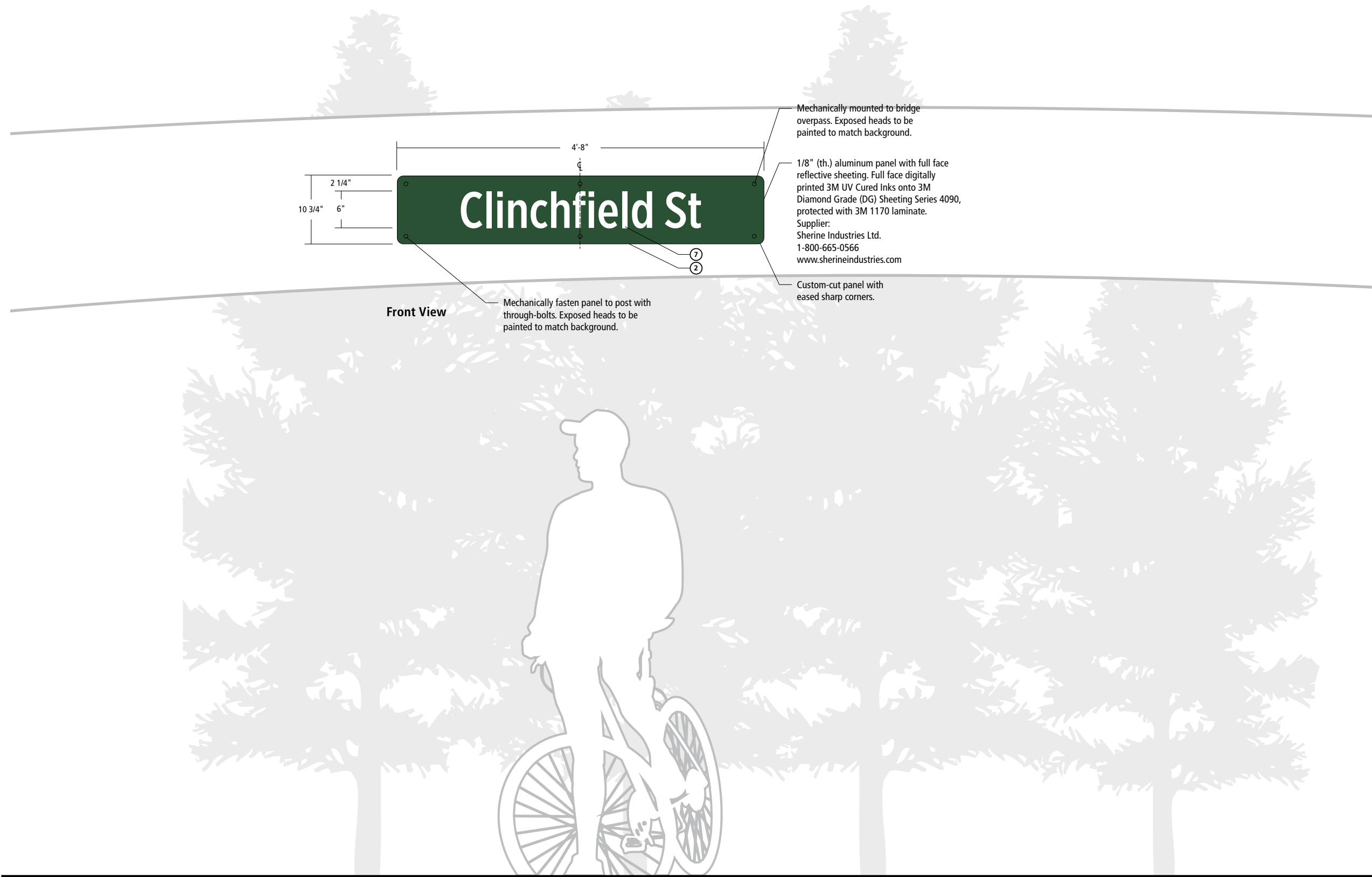
Date	Description
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**Sign Type**

**Ix-5 Overhead Street Identification**

**Scale**

1/2" = 1'-0"  
(on an 11 x 17 sheet)

**Color Code**

- ① Black
- ② Dark Green
- ③ Light Blue
- ④ Medium Green
- ⑤ Medium Blue
- ⑥ Bright Green
- ⑦ White
- ⑧ Gold Metallic

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**Date Description**

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