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BRONX RIVER GREENWAY
Signage Standards

SECTION
A. System Overview

TITLE
Program Description

DRAWING #
A.01

SCALE
na

DATE
05.02.2008

DRAWN BY
HS

REVISIONS
MH 06.02.2009

Program Description and Project Area
The Bronx River Greenway Signage Program is designed to facilitate wayfinding along an 8-mile trail that begins at the NYC portion of the Bronx River, and extends to the Westchester County border. Additionally, the wayfinding signage provides directional information to significant destinations and amenities in and around the trail area, including the Bronx Zoo and the Bronx Botanical Garden, as well as transportation links such as subway and Metro North stations.

Sign Types and Usage
There are three aspects to the signage program: Wayfinding, which is to say directional information; Identification, which consists of a graphic identification treatment for parks along the greenway, as well as a ‘feature’ identification component to identify special aspects of a site, e.g., Kayak and Canoe Launch; and Orientation, which is comprised of maps and user facility information for the entire site as well as local community information.

Directional Messages
The precise wording for all trail messages has not been determined at this time. However, examples of preferred and common messages are provided in the ‘wayfinding signs’ section (B2). As the signage program is implemented, the manual can be revised to reflect further development of messaging conventions.

Sign Placement
Off-route wayfinding signs should be located along greenway access points. Identification signs for parks should be located along the greenway shortly in advance of the specific park site, in both directions. Directional signage should be located at greenway intersections and decision points depicting greenway direction and/or off-route destinations. Orientation signage should be related to specific park implementation projects, and located at access points to the greenway.

Sign Materials
Sign graphic panels are designed to be fabricated with a high-pressure laminate or embedded graphics process. In all cases these panels will be 2-sided (even if one side does not display a message), consisting of two 0.25” thick HPL panels laminated back-to-back. Sign posts will be 1-1/2” Schedule 80 pipe with a powder-coated finish. The sign post caps will be fabricated from Grainger 1WKK6 PVC White Socket Caps with 2.25” outside diameter and 1.9” inside diameter. Caps shall be sanded smooth, trimmed down to 7/8” overall height, and painted with enamel on all sides to match PMS 376c green. Fabricator will provide shop drawings confirming all dimensions and hardware specifications. Bronx River Alliance must approve all drawings, colors, materials, and methods before fabrication.

Artwork
Bronx River Alliance will be responsible for providing digital artwork for greenway map, arrows and logos used in the signage. SEGD Recreational Symbols must be used. They can be purchased online at SEGD.org. Local orientation map art will be supplied as part of specific park implementation programs. Fabrication vendor should inform the Alliance of any format requirements or preferences.

For reproducible artwork please contact:
Bronx River Alliance
One Bronx River Parkway
Bronx, NY 10462
718.430.4665 phone
718.430.4658 fax
bronxriver.info@parks.nyc.gov
A. System Overview

Title: Sign System Rendering

Drawing #: A.02
Scale: 1/2" = 1' - 0"
Date: 08.24.2012
Drawn by: MH

Bronx River Alliance
718.430.4665

Studio L’Image
Environmental Graphics, Design and Planning
212.242.3366

Office of Donna Walcavage
Landscape Architecture + Urban Design
718.834.0224

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BRONX RIVER GREENWAY
Signage Standards

SECTION
A. System Overview

TITLE
Design Elements
Type & Color

DRAWING #
A.03

SCALE
na

DATE
05.02.2008

DRAWN BY
HS

REVISIONS
MH 05.08.2009

typography

Trump Medieval

ABCDEFHJKLNMOPQRSTUVWXYZ
abcdefhijklmnopqrstuvwxyz

1234567890

Meta Plus Bold

ABCDEFHJKLNMOPQRSTUVWXYZ
abcdefhijklmnopqrstuvwxyz

1234567890

Meta Plus Book

ABCDEFHJKLNMOPQRSTUVWXYZ
abcdefhijklmnopqrstuvwxyz

1234567890

color palette: components

<table>
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color palette: HPL graphics

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<td>Pantone 373C</td>
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Computer screen and printed copies of this document are not accurate for color reference. Refer to the Pantone Matching System for exact color match paint formulas and swatches.
SECTION
A. System Overview

TITLE
Design Elements
Arrow Art

DRAWING #
A.04

SCALE
na

DATE
04.10.2009

DRAWN BY
MH

BRONX RIVER ALLIANCE
Bronx River Alliance
718.430.4665

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Design and Planning
212.242.3366

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+ Urban Design
718.834.0224

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Recreational Symbol Sign vector artwork can be obtained from www.SEGD.org.

Ballplaying Symbol Sign vector artwork is available from the Bronx River Alliance.

Symbol Usage:
Symbol artwork is to be sized to fill the symbol box width or height, or both if the artwork aspect ratio is square. Always align artwork with the symbol box bottom line, and right or left align depending on whether the panel layout is for Side A or B. Side A is left justified, Side B is right justified.

(See drawing B.2.02 for visual examples)
B.
B.1. Graphic Conventions
B.1. Identification Signs

**Introduction:**

*Welcome to the Bronx River Greenway. Please enjoy your park and river, and help keep them clean and beautiful.*

For more information about Parks, please call 311 or visit www.nyc.gov/parks.

*City of New York Parks & Recreation*

Michael R. Bloomberg, Mayor

Venice White, Commissioner

---

**Panel sizes represent visible area and do not include additional fins and channels for fastening. See fabrication drawings for overall panel dimensions.**

---

**Character count:**

*park name:* 36 characters
BRONX RIVER GREENWAY
Signage Standards

SECTION
B. Graphic Conventions
B.1. Identification Signs

TITLE
Feature ID / ID-F

DRAWING #
B.1.02

SCALE
2" = 1' - 0"

DATE
05.02.2008

DRAWN BY
HS

REVISIONS
MH 08.24.2012

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Welcome to this NYC Boat Launching Area. PERMIT REQUIRED FOR USE. We want you to have FUN and be SAFE when on the water. To help you, here are some Safety Guidelines to Follow:

- All parties must wear a United States Coast Guard approved personal flotation device (PFD).
- Be aware of weather, tides and currents.
- Be aware of power boats & other personal watercraft.
- Be sure someone else knows your trip plans and check in when you return.
- Carry a map/paddles.
- Bring appropriate safety, rescue, and navigational aids, and more than adequate food, water and warm protective clothing.
- Paddlers enter the water at their own risk.
- Please do not let children near the site without adult supervision.
- Do Not Feed Alpacas.

Launch Rules 1. Swimming, diving, or entering the water. This includes pets.
2. Dogs off leash
3. Littering or dropping debris.
4. Any discharge into water.
5. Camping or open fires.
6. You may not store personal property or leave equipment unattended.

Panel sizes represent visible area and do not include additional fins and channels for fastening. See fabrication drawings for overall panel dimensions.

park name:
Trump Medieval
1-5/8" Cap
Track +20

headline:
Trump Medieval
2" Cap
Track +20

sub-head:
Trump Medieval
1" Cap

main copy:
Meta Plus Book & Black
26pt/26pt

sidebar copy:
Meta Plus Book & Black
22pt/24pt

character count:
primary place name only:
10 characters per line
3 line maximum

secondary place name:
18 characters per line
2 line maximum

park regulatory text is not subject to change

Studio L’Image
Environmental Graphics,
Design and Planning
212.242.3366

Office of Donna Walcavage
Landscape Architecture
+ Urban Design
718.834.0224
The following wayfinding conventions and sign module descriptions have been developed to guide in the implementation of the signage program. Both the Directional and Informational modules use the same base sign unit, but their messages, content, and layouts vary in order to present the user information in a clear and consistent manner.

Following is a description of module functionality:

**Sign Module DIR-1: On-route Primary Directional**
This module is the primary directional sign, used at intersections and decision nodes. The information appearing on these signs may either refer to upcoming greenway destinations, or provide directional guidance to off-route destinations.

This sign module contains both a map panel and a message panel. The map panel is unique to this module. The message panel is physically identical to the message panel in the DIR-2 module. The graphic layout conventions shown in the Standards Manual reflect appropriate combinations and iterations.

This is a two-sided sign unit, and in most conditions will carry directional information on both sides. The map panel will always be two-sided.

**Sign Module DIR-2: On-route Secondary Directional**
This module consists of a two-sided message panel; this panel is physically identical to the message panel in the DIR-1 module.

This module carries secondary directional messages that are intended to trailblaze to the destination. This module also is used to communicate warning, etiquette, or regulatory information for the use of the greenway. Pictographs may be used for those situations where word messages would be confusing or too long. It does not replace mandatory MUTCD signage, nor should it be used for critical regulatory information. The Standards Manual gives examples of typical information usage as well as the recommended messages.

This is a two-sided sign unit, and in most conditions will carry directional information on both sides.

**Off-route Signage**
Wayfinding signs directing to the Bronx River Greenway from other trails in the NYC Greenway system, or from other locations, should meet the standards of the NYC Greenway Bike Signage program. These signs are not covered in this manual.
SIDE A layouts are left justified

DIR-1
SIDE A EXAMPLES — DIRECTIONAL LAYOUTS

DIR 1.1
Concrete Plant Park

DIR 1.2
Restroom

Boat Launch

DIR 1.1
Ballfield

DIR 1.2
Nature Trail

Allerton Av

SIDE B layouts are right-justified

DIR-2
SIDE A EXAMPLES — DIRECTIONAL LAYOUTS

DIR 2.1
Concrete Plant Park

DIR 2.2
Restroom

Boat Launch

DIR 2.1
Ballfield

DIR 2.2
Nature Trail

Allerton Av

DIR-2
SIDE A EXAMPLES — REGULATORY LAYOUTS

DIR/REG 2.3
Shared Path

DIR/REG 2.3
Go Slow

Respect Others

DIR/REG 2.4
DIR/REG 2.3
Shared Path

DIR/REG 2.4
Go Slow

Respect Others

DIR/REG 2.3
DIR/REG 2.4
DIR-1.1, DIR-2.1
MULTIPLE MESSAGE
DIRECTIONAL
Meta Plus Book
1-1/2" Cap
Track +20

directory count:
12 characters per line
2 line maximum w/symbols
4 line maximum text only

notes:
Layouts shown are SIDE A,
left-justified. SIDE B layouts are
right-justified.

Panel sizes represent visible area
and do not include additional
fins and channels for fastening.
See fabrication drawings for
overall panel dimensions.

DIR-1.2, DIR 2.2
SINGLE MESSAGE
DIRECTIONAL
Meta Plus Book
2" Cap
Track +20

directory count:
9 characters per line
3 line maximum w/symbols
4 line maximum text only

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### BRONX RIVER GREENWAY Signage Standards

**SECTION**  
B. Graphic Conventions  
B.2. Wayfinding Signs

**TITLE**  
DIR-1 Map Panel

**DRAWING #**  
B.2.04

**SCALE**  
1-1/2" = 1' - 0"

**DATE**  
05.02.2008

**DRAWN BY**  
HS

**REVISIONS**  
HS 02.16.2012

---

### ORIENTATION MAP

**notes:**  
Panel sizes represent visible area and do not include additional fins and channels for fastening. See fabrication drawings for overall panel dimensions.
BRONX RIVER GREENWAY
Signage Standards

SECTION
B. Graphic Conventions
B.2. Wayfinding Signs

TITLE
DIR-2 Regulatory Layouts

DRAWING #
B.2.05

SCALE
1-1/2" = 1' - 0"

DATE
05.02.2008

DRAWN BY
HS

REVISIONS
MH 08.24.2012

---

DIR/REG-2.3
SINGLE MESSAGE
REGULATORY
Meta Plus Book
2" Cap
Track +20

character count:
9 characters per line
3 line maximum w/symbols
4 line maximum text only

notes:
Layouts shown are SIDE A,
left-justified. SIDE B layouts are
right-justified.

Panel sizes represent visible area
and do not include additional
fins and channels for fastening.
See fabrication drawings for
overall panel dimensions.

DIR/REG-2.4
SYMBOLS ONLY
### BRONX RIVER GREENWAY Signage Standards

**SECTION**
- B. Graphic Conventions
- B.3. Orientation Signs

**TITLE**
- Primary Orientation / O-P Side A

**DRAWING #**
- B.3.01

**SCALE**
- 2" = 1' - 0"

**DATE**
- 05.02.2008

**DRAWN BY**
- HS

**REVISIONS**
- MH 08.24.2012

---

**panel title:**
- Trump Medieval 2" Cap

**place name:**
- Trump Medieval
- 34pt/40pt

**text:**
- Meta Plus Book
- 20pt/26pt

**character count:**
- park description:
  - 64 characters per line
  - 3 line maximum

**panel title and park descriptions are not subject to change**

**notes:**
- Panel sizes represent visible area and do not include additional fins and channels for fastening. See fabrication drawings for overall panel dimensions.

---

**B. Graphic Conventions**

**B.3. Orientation Signs**

**Primary Orientation / O-P Side A**

**MAP**

- Bronx River Greenway

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B. Graphic Conventions
B.3. Orientation Signs

Primary Orientation / O-P
Side B

For information about activities on
the river and how to get involved,
please visit the Bronx River Alliance
at www.bronxriver.org.

For more information about Parks,
call 311, or visit www.nyc.gov/parks.
For permit information, call
(212) 666-4111.

Restrooms
River Access
Ballfields
Nature Path
Subway
Playground

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BRONX RIVER GREENWAY
Signage Standards

SECTION
C. Fabrication Drawings
C.I. Identification Signs

TITLE
Park ID / ID-P
Overview

DRAWING #
C.1.01

SCALE
1-1/2" = 1' - 0"

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MB 04.07.2011
MH 08.24.2012

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# Bronx River Greenway Signage Standards

## Section
C. Fabrication Drawings
C.I. Identification Signs

### Title
Park ID / ID-P
Graphic Panel

#### Drawing #
C.I.02

#### Scale
1:2

#### Date
05.02.2008

#### Drawn By
MB

#### Revisions
MH 06.02.2009
MB 04.07.2011

---

### C.1. Identification Signs

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<th>ID-P</th>
<th>Graphic Panel</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### C.1.02

- **Material:**
  - 0.5" Thick HPL Graphic Panel (two HPL graphic panels, each 0.25" thick, laminated back-to-back)
  - 0.6875" x 0.875" notch cut away on both corners
  - 0.8750" green strip included in HPL graphic panel art (printed in panel)

- **Fabrication:**
  - 1/4" W x 0.125" deep channel routed along entire height of panel on both sides for sliding onto slotted 1-1/2" SCH 80 pipe
  - 0.50" O/A

---

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**SECTION AA 1:2 SCALE**

1/4" W x 1/8" deep routed channel along entire height of HPL graphic panel on both sides for sliding onto slotted 1-1/2" SCH 80 pipe

0.5" thick HPL graphic panels, each 0.25" thick, laminated back-to-back

1/4" W x 1/8" deep routed channel along entire height of HPL graphic panel on both sides for sliding onto slotted 1-1/2" SCH 80 pipe
C. Fabrication Drawings

C.I. Identification Signs

SECTION

C.1. Identification Signs

TITLE

Park ID / ID-P

Details & Sections

DRAWING #

C.1.04

SCALE

as marked

DATE

05.02.2008

DRAWN BY

MB

REVISIONS

MH 06.02.2009
MB 04.07.2011

GRAINGER 1WKX6 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8" OD. 2.25" OD, 1.9" ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2" SCH 80 PIPE

HPL GRAPHIC PANEL

1-1/2" SCH 80 PIPE

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EXPLODED DETAIL VIEW OF SECTION CC

GRAINGER 1WKK6 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8” OD, 2.25” OD, 1.9” ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2” SCH 80 PIPE

1-1/2” SCH 80 PIPE

GND

0.2500”

7’-.75” LONG X .25” WIDE ROUTED CHANNEL THROUGH EDGE OF STEEL PIPE TO RECEIVE HPL GRAPHIC PANELS

C. Fabrication Drawings
C.1. Identification Signs

SECTION

C. Fabrication Drawings
C.1. Identification Signs

DRAWING #

C.1.05

SCALE

as marked

DATE

05.02.2008

DRAWN BY

MB

REVISIONS

MH 06.02.2009
MB 04.07.2011

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BRONX RIVER GREENWAY
Signage Standards

SECTION
C. Fabrication Drawings
C.I. Identification Signs

TITLE
Feature ID / ID-F
Overview

DRAWING #
C.I.06

SCALE
1-1/2" = 1' - 0"

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MB 04.07.2011
MH 08.24.2012

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BRONX RIVER GREENWAY
Signage Standards

SECTION
C. Fabrication Drawings
C.I. Identification Signs

TITLE
Feature ID / ID-F
Graphic Panel

DRAWING #
C.1.07

SCALE
1:2

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MH 06.02.2009
MB 04.07.2011

1/4" W X 0.125" DEEP CHANNEL ROUTED ALONG ENTIRE HEIGHT OF PANEL ON BOTH SIDES FOR SLIDING ONTO SLOTTED 1-1/2" SCH 80 PIPE

0.5" THICK HPL GRAPHIC PANEL (TWO HPL GRAPHIC PANELS, EACH 0.25" THICK, LAMINATED BACK-TO-BACK)

.6875" X .875" NOTCH CUT AWAY ON BOTH CORNERS

.875" GREEN STRIP INCLUDED IN HPL GRAPHIC PANEL ART (PRINTED IN PANEL)

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**BRONX RIVER GREENWAY**  
Signage Standards

**SECTION**  
C. Fabrication Drawings  
C.I. Identification Signs

**TITLE**  
Feature ID / ID-F  
Details & Sections

**DRAWING #**  
C.I.08

**SCALE**  
1:2

**DATE**  
05.02.2008

**DRAWN BY**  
MB

**REVISIONS**  
MH 06.02.2009  
MB 04.07.2011

---

**SECTION EE 1:2 SCALE**

1/4" W X 1/8" DEEP ROUTED CHANNEL ALONG ENTIRE HEIGHT OF HPL GRAPHIC PANEL ON BOTH SIDES FOR SLIDING ONTO SLOTTED 1-1/2" SCH 80 PIPE

0.5" THICK HPL GRAPHIC PANEL (TWO HPL GRAPHIC PANELS, EACH 0.25" THICK, LAMINATED BACK-TO-BACK)

---

**DETAIL C 1:2 SCALE**

GRAINGER 1WKK6 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8” OH.  
2.25” OD, 1.9” ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2” SCH 80 PIPE

0.8750"

---

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**BRONX RIVER GREENWAY**

**Signage Standards**

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</tr>
<tr>
<td>DRAWN BY</td>
<td>MB</td>
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</tbody>
</table>
| REVISIONS | MH 06.02.2009  
MB 04.07.2011 |

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EXPLODED DETAIL VIEW OF SECTION FF

GRAINGER 1WKK6 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8" OH. 2.25" OD, 1.9" ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2" SCH 80 PIPE

1-1/2" SCH 80 PIPE

SCH 80 STEEL PIPE DETAIL 1:2 SCALE

30-.75" LONG X .25" WIDE ROUTED CHANNEL THROUGH EDGE OF STEEL PIPE TO RECEIVE HPL GRAPHIC PANELS

0.2500" 0.2500"

30-.75" ROUTED CHANNEL

66.75" O/A

GROUND
BRONX RIVER GREENWAY
Signage Standards

SECTION
C. Fabrication Drawings
C.2. Wayfinding Signs

TITLE
DIR-1
Overview

DRAWING #
C.2.01

SCALE
1-1/2" = 1' - 0"

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MH 06.02.2009
MB 04.07.2011

Concrete Plant Park

Boat Launch

25.125" H (VISBILE) X 0.5" THICK HPL GRAPHIC PANEL (TWO HPL GRAPHIC PANELS, EACH 0.25" THICK, LAMINATED BACK-TO-BACK)

1-1/2" SCH 80 PIPE BLACK POWDER COATED FINISH ON THE OUTSIDE AND THE INSIDE TO PREVENT RUSTING

COLUMN BASE PLATE ANCHORED TO CONCRETE FOOTING (SEE DRAWINGS C.4.02-04)

84" CLEARANCE

109.125' O/A

7" 14"

24.25" 22.9" O/A

GRAINGER 1WKK6 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8" OH. 2.25" OD, 1.9" ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2" SCH 80 PIPE

.875" GREEN STRIP INCLUDED IN HPL GRAPHIC PANEL ART (PRINTED IN PANEL)

Studio L’Image
Environmental Graphics, Design and Planning
212.242.3366

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Landscape Architecture + Urban Design
718.834.0224

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BRONX RIVER GREENWAY
Signage Standards

SECTION
C. Fabrication Drawings
C.2. Wayfinding Signs

TITLE
DIR-1
Map & Graphic Panels

DRAWING #
C.2.02

SCALE
1:2

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MH 06.02.2009
MB 04.07.2011

1/4" W X 0.125" DEEP CHANNEL ROUTED ALONG ENTIRE HEIGHT OF PANEL ON BOTH SIDES FOR SLIDING ONTO SLOTTED 1-1/2" SCH 80 PIPE

0.5" THICK HPL GRAPHIC PANEL
(TWO HPL GRAPHIC PANELS, EACH 0.25" THICK, LAMINATED BACK-TO-BACK)

0.6875" X 0.875" NOTCH CUT AWAY ON CORNERS

0.875" GREEN STRIP INCLUDED IN HPL GRAPHIC PANEL ART (PRINTED IN PANEL)

MAP PANEL ELEVATION
DIR-1 ONLY

MESSAGE PANEL ELEVATION
DIR-1, DIR-2

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**C. Fabrication Drawings**

**C.2. Wayfinding Signs**

**DIR-1**

**DETAIL E** 1:2 SCALE

- **GRAINGER 1WKX6 PVC WHITE SOCKET CAP**, trimmed down to 7/8" OD.
- 2.25" DD, 1.9" ID. Painted with enamel on all sides to match PMS 376C Green.
- Sand out all mold marks and sand all sides smooth.
- Sand inside diameter for easy fit onto 1-1/2" SCH 80 Pipe.

**SECTION HH** 1:2 SCALE

- **1/4" W X 1/8" DEEP ROUTED CHANNEL** along entire height of HPL graphic panel on both sides for sliding onto slotted 1-1/2" SCH 80 Pipe.
- **0.5" THICK HPL GRAPHIC PANEL** (two HPL graphic panels, each 0.25" thick, laminated back-to-back).

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### C. Fabrication Drawings

#### C.2. Wayfinding Signs

**DIR-1**

**Details & Sections**

**DRAWING #:** C.2.04

**SCALE:** as marked

**DATE:** 05.02.2008

**DRAWN BY:** MB

**REVISIONS**

MH 06.02.2009

MB 04.07.2011

---

**SECTION JJ FULL SCALE**

**GRAinger 1WKK6 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8" OD, 2.25" OD, 1.9" ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2" SCH 80 PIPE**

---

**SECTION II FULL SCALE**

**GRAinger 1WKK6 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8" OD, 2.25" OD, 1.9" ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2" SCH 80 PIPE**

---

**HPL GRAPHIC PANEL**

---

**1-1/2" SCH 80 PIPE**

---

**7/8"**

---

**1-1/2" SCH 80 PIPE**

---

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BRONX RIVER GREENWAY
Signage Standards

SECTION
C. Fabrication Drawings
C.2. Wayfinding Signs

TITLE
Dir-I
Details & Sections

DRAWING #
C.2.05

SCALE
as marked

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MH 06.02.2009
MB 04.07.2011

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BRONX RIVER GREENWAY
Signage Standards

C. Fabrication Drawings
C.2. Wayfinding Signs

DIR-2 Overview

C.2.06

SCALE
1-1/2" = 1' - 0"

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MH 06.02.2009
MB 04.07.2011

Boat Launch

ELEVATION, DIR-2
SINGLE POST, SINGLE FLAG, DOUBLE-SIDED SIGN

COLUMN BASE PLATE
ANCHORED TO CONCRETE FOOTING
(SEE DRAWINGS C.4.02-04)

84" CLEARANCE

1-1/2" SCH 80 PIPE
BLACK POWDER COATED FINISH
ON THE OUTSIDE AND THE INSIDE
TO PREVENT RUSTING

GRAINGER 1WKX6 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8" OD.
2.25" OD, 1.9" ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2" SCH 80 PIPE

.875" GREEN STRIP INCLUDED IN HPL GRAPHIC PANEL ART (PRINTED IN PANEL)

25.125" H (VISIBLE) X 0.5" THICK HPL GRAPHIC PANEL (TWO HPL GRAPHIC PANELS, EACH 0.25" THICK, LAMINATED BACK-TO-BACK)

84" CLEARANCE

16.075' O/A

24.25"

2.25"

109.125' O/A

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SECTION
C. Fabrication Drawings
C.2. Wayfinding Signs

TITLE
DIR-2
Graphic Panel

DRAWING #
C.2.07

SCALE
1:2

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MH 06.02.2009
MB 04.07.2011

1/4" W X 0.125" DEEP CHANNEL ROUTED ALONG ENTIRE HEIGHT OF PANEL ON BOTH SIDES FOR SLIDING ONTO SLOTTED 1-1/2" SCH 80 PIPE

0.5" THICK HPL GRAPHIC PANEL (TWO HPL GRAPHIC PANELS, EACH 0.25" THICK, LAMINATED BACK-TO-BACK)

.6875" X .875" NOTCH CUT AWAY ON CORNER

.875" GREEN STRIP INCLUDED IN HPL GRAPHIC PANEL ART (PRINTED IN PANEL)

MESSAGE PANEL ELEVATION
DIR-1, DIR-2

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1-1/2" SCH 80 PIPE

GRAINGER 1WKK6 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8" OD. 2.25" OD, 1.9" ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2" SCH 80 PIPE

0.5" THICK HPL GRAPHIC PANEL (TWO HPL GRAPHIC PANELS, EACH 0.25" THICK, LAMINATED BACK-TO-BACK)

1/4" W X 1/8" DEEP ROUTED CHANNEL ALONG ENTIRE HEIGHT OF HPL GRAPHIC PANEL ON BOTH SIDES FOR SLIDING ONTO SLOTTED 1-1/2" SCH 80 PIPE
### SIGNAGE STANDARDS

**SECTION**
C. Fabrication Drawings

**C.2. Wayfinding Signs**

---

**DRAWING #**
C.2.09

**SCALE**
as marked

**DATE**
05.02.2008

**DRAWN BY**
MB

---

**REVISIONS**
MH 06.02.2009
MB 04.07.2011

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**GRAINGER 1WKK6 PVC WHITE SOCKET CAP**, TRIMMED DOWN TO 7/8" OD. 2.25' OD, 1.9" ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2' SCH 80 PIPE

---

**0.875'**

---

**0.6875'**

---

**HPL GRAPHIC PANEL**

---

**1-1/2' SCH 80 PIPE**

---

**SECTION MM FULL SCALE**

---

**SECTION LL FULL SCALE**

---

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GRAINGER 1WKX8 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8" OD. 2.25" DD, 1.9" ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2" SCH 80 PIPE

1-1/2" SCH 80 PIPE

25" LONG X 25" WIDE ROUTED CHANNEL THROUGH EDGE OF STEEL PIPE TO RECEIVE HPL GRAPHIC PANELS

0.250"

25" ROUTED CHANNEL

100° O/A

GROUND
FIGURE 10:  

**Bronx River Greenway**

**SECTION**
C. Fabrication Drawings
C.3. Orientation Signs

**TITLE**
Primary Orientation / O-P Overview

**DRAWING #**
C.3.01

**SCALE**
1-1/2" = 1' - 0"

**DATE**
05.02.2008

**DRAWN BY**
MB

**REVISIONS**
MH 06.02.2009
MB 04.07.2011

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C. Fabrication Drawings
C.3. Orientation Signs

Title: Primary Orientation / O-P Graphic Panel

Drawing #: C.3.02

Scale: 1:2

Date: 05.02.2008

Drawn by: MB

Revisions:
MH 06.02.2009
MB 04.07.2011

1/4" W X 0.125" DEEP CHANNEL ROUTED ALONG ENTIRE HEIGHT OF PANEL ON BOTH SIDES FOR SLIDING ONTO SLOTTED 1-1/2" SCH 80 PIPE

0.5" THICK HPL GRAPHIC PANEL (TWO HPL GRAPHIC PANELS, EACH 0.25" THICK, LAMINATED BACK-TO-BACK)

.6875" X .875" NOTCH CUT AWAY ON BOTH CORNERS

.875" GREEN STRIP INCLUDED IN HPL GRAPHIC PANEL ART (PRINTED IN PANEL)

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BRONX RIVER GREENWAY
Signage Standards

SECTION
C. Fabrication Drawings
C.3. Orientation Signs

TITLE
Primary Orientation / O-P Details & Sections

DRAWING #
C.3.03

SCALE
1:2

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MH 06.02.2009
MB 04.07.2011

DETAIL 1: 1/2 SCALE

GRAINGER 1WKK6 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8" OD. 2.25" OD, 1.9" ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2" SCH 80 PIPE

HPL GRAPHIC PANEL

SECTION NN 1:2 SCALE

1/4" W X 1/8" DEEP ROUTED CHANNEL ALONG ENTIRE HEIGHT OF HPL GRAPHIC PANEL ON BOTH SIDES FOR SLIDING ONTO SLOTTED 1-1/2" SCH 80 PIPE

0.5" THICK HPL GRAPHIC PANEL (TWO HPL GRAPHIC PANELS, EACH 0.25" THICK, LAMINATED BACK-TO-BACK)

1/4" W X 1/8" DEEP ROUTED CHANNEL ALONG ENTIRE HEIGHT OF HPL GRAPHIC PANEL ON BOTH SIDES FOR SLIDING ONTO SLOTTED 1-1/2" SCH 80 PIPE
BRONX RIVER GREENWAY
Signage Standards

SECTION
C. Fabrication Drawings
C.3. Orientation Signs

TITLE
Primary Orientation / O-P
Details & Sections

DRAWING #
C.3.04

SCALE
as marked

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MH 06.02.2009
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**SECTION**
C. Fabrication Drawings
C.3. Orientation Signs

**TITLE**
Primary Orientation / O-P Details & Sections

**DRAWING #**
C.3.05

**SCALE**
as marked

**DATE**
05.02.2008

**DRAWN BY**
MB

**REVISIONS**
MH 06.02.2009
MB 04.07.2011

---

**EXPLoded DETAIL VIEW OF SECTION 00**

GRAINGER 1WKK6 PVC WHITE SOCKET CAP, TRIMMED DOWN TO 7/8" OD, 2.25" ID, 1.9" ID. PAINTED WITH ENAMEL ON ALL SIDES TO MATCH PMS 376C GREEN. SAND OUT ALL MOLD MARKS AND SAND ALL SIDES SMOOTH. SAND INSIDE DIAMETER FOR EASY FIT ONTO 1-1/2" SCH 80 PIPE

---

**1-1/2" SCH 80 PIPE**

---

**SCH 80 STEEL PIPE DETAIL 1:2 SCALE**

36.75" LONG X 0.25" WIDE ROUTED CHANNEL THROUGH EDGE OF STEEL PIPE TO RECEIVE HPL GRAPHIC PANELS

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C.4.01 [S-1 / 1 of 2]

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SECTION
C. Fabrication Drawings
C.4. General

TITLE
All Sign Types
Sign Footing Elevation

DRAWING #
C.4.01 [S-1 / 1 of 2]

SCALE
1" = 1'-0"

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MH 04.09.2009

Bronx River Alliance
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+ Urban Design
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Option 1 - Nut if Cast-In-Place Anchor Bolt

Option 2 - Drilled Hole if Post-Installed Anchor

Use 12"Ø Sonotube form for pier from top of footing to minimum 4" below grade.

Sign pier footings may be augured and poured directly against the soil. If the footings are formed (i.e. Sonotube), backfill with Type 4 compacted granular fill.

Post & Concrete Footing

C.4. General

All Sign Types
Sign Footing Elevation

1 1/2" SCH. 80 PIPE

7"Ø x 1" PLATE

6" Embed

4'-0" Embedment in Soil

Bronx River Greenway
Signage Standards
BRONX RIVER GREENWAY
Signage Standards

SECTION
C. Fabrication Drawings
C.4. General

TITLE
All Sign Types
Sign Footing Plan

DRAWING #
C.4.02 [S-1 / 2 of 2]

SCALE
1:4

DATE
05.02.2008

DRAWN BY
MB

REVISIONS
MH 04.09.2009

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1-1/2" Ø SCH. 80 PIPE

5" Ø BOLT CIRCLE

7" Ø X 1/2" STEEL PLATE

1/2" Ø HOLE DRILLED THROUGH 7" Ø X 1/2" STEEL PLATE TO ALLOW WATER TO DRAIN OUT OF COLUMN.

12" Ø 4’ DEEP CONCRETE PIER FOOTING

3-1/2" (3" MIN.)

(4) 1/2" Ø ANCHOR BOLTS (SEE NOTES). MAKE HOLES 5/8" Ø. USE LEVELING NUT & WASHER.

SIGN FOOTING-PLAN
SCALE: 3" = 1'
### GENERAL NOTES:

1. **BUILDING CODE:** These plans have been prepared in accordance with the New York City Building Code, latest edition. All work shall be performed in accordance with this code and local requirements.

2. **DESIGN LOADS:**
   - **Gravity Loads:** The framing system has been designed to support specific items shown on drawings when assembled in accordance with drawings. No additional dead loads or live loads may be placed on structures.
   - **Wind Loads:** Design wind pressure: 22.5 PSF (wind on signs)

3. **SUBMITTALS REQUIRED, STRUCTURAL:** The following items require submission of shop and erection drawings, for review:
   - **Structural Steel:**
   - **All Work Shall Be Coordinated With Architectural And/or Landscape Designer Drawings.**
   - **The Contractor Shall Verify All Existing Conditions And Notify The Engineer Of Any Discrepancies.**
   - **In Case Of Contradiction Between The Drawings, The Specifications, And The Codes, Or If Any Changes Are Required, The Contractor Shall Inform The Engineer Immediately. No Structural Change Shall Be Made Without Written Approval Of The Engineer.**
   - **This System Is Designed To Be Self-Supporting Only When Fully Erected And All Anchors Are Completely Fastened. Install Temporary Supports And/or Bracing As Required During Erection To Maintain Stability And To Prevent Distortion Or Damage To The System Due To Erection Forces.**

### FOUNDATION NOTES:

1. **All Footings Shall Be Placed Directly On Virgin Soil, Or Certified Compacted Fill. Sign Footings May Be Augered And Poured Directly Against The Soil. If The Footings Are Formed, Backfill With Type 4 Compacted Granular Fill.**

2. **Concrete Foundation:**
   - **28 Day Minimum Compressive Strength For Concrete Shall Be As Follows:**
     - Footings: 2000 PSI
     - Provide between 4% and 6% Air Entrapment in Concrete.
   - **Maximum Concrete slump shall be 4" For Concrete Not Receiving High Range Water Reducing Admixture.**
   - **All Concrete Shall Be Mixed, Transported, And Placed In Accordance With Aci Standards 318, 304, 301.**
   - **Excavations Shall Be Dewatered To Allow Installation Of Footings In Dry Atmosphere.**
   - **All Exterior Footings Shall Be Placed A Minimum Of 4"/0 Below Final Grade When Bearing On Soil.**
   - **The Contractor Shall Notify The Engineer Where Bottom Of Footing Elevation Is Changed And Obtain Revised Design Of The Foundation And Retaining Walls As Required.**

### STRUCTURAL NOTES:

1. **GENERAL CONCRETE NOTES:**
   - **All Concrete Work Shall Conform To Requirements Of The A.C.I. Building Code Requirement For Structural Concrete (318–02 Ultimate Strength Design).**
   - **All Concrete shall be mixed, transported and placed in accordance with aci standards 318 and 304.**
   - **No Calcium Chloride Admixtures Are Permitted.**

2. **STEEL:**
   - **Materials For Steel shall Conform To The Following ASTM Specifications:**
     - Structural Plate: A36
     - Pipe: A501 or A53, Type C Or D, Grade B
   - **All steel shall be shop coated using corrosion resistant, exterior paint system as specified by the architect.**

3. **Fasteners:**
   - **Bolts For Mechanical Connections shall Be Stainless Grade 316, Assembled Using Prevailing Torque-Type Elastic Stop Nuts.**
   - **Anchor Bolts Into Concrete shall Be Either Cast-In-Place Or Post-Installed 5/8 Diameter Grade 316 Stainless Steel, Embedded 6″ If Post-Installed, Use Hilti Has Stainless Steel Rods With Hilti Hit Hy150 Max Adhesive Or Approved Equivalent. Use Rod With Stainless Steel Washers And Nuts. Provide Leveling Nuts And Washers Under Base Plate, Install In Accordance With Manufacturer’s Recommendations.**
   - **Use Loctite 262 To Secure Top Nut To Anchor Threads To Resist Tampering.**

4. **Welding:**
   - **All Welding of Steel Greater Than 3⁄16" Thick Shall Comply With Aws D1.1 “Structural Welding Code – Steel,” Latest Edition. Use E70XX Or E70-T Series Electrodes, Low Hydrogen.**
   - **All Welders Shall Be Certified To Aws Standards.**
   - **All Welds Shall Be Visually Inspected. No Failed Welds Shall Be Permitted To Remain In Service.**
   - **Weld Using Fillet Welds Typically And Flare-Bevel Groove Welds At Tube Edges, Weld Sizes shall Match Thinner Material At Joint, Unless Otherwise Noted.**

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Wayfinding DIR-1, DIR-2
Sign Placement Diagram

**SIDE B**
Sign face visible on the left side of the path.
Layout is right-justified.

**Flag aligned away from path**
Sign placement conventions:
Flag is to be aligned away from path. At any particular intersection or junction, signs are to be placed on the side of the path closest to the destination, so that the arrow would point away from the path (as shown), not back across the path. Other factors include adequate clearance for sign placement, and line of sight.

**SIDE A**
Sign face visible on the right side of the path.
Layout is left-justified.
D. Sign Placement
D.I. Directional Signs

D.1. Directional Signs

D.1.02

05.02.2008

MB

MH 08.24.2012

Sign placement conventions:

(1) Along the main route, a DIR-1 module would typically be placed immediately adjacent to a side path. The messages on both sides of the DIR-1 would refer to the destination(s) on the side path. The sign should be placed on the same side of the trail as the side path, so that the directional arrow does not point across the path.

(2) On side paths, approaching a junction with the main trail, signs are to be placed approximately 100 feet from the intersection (or closer, if the line of sight is obscured). The messages on the A side of this sign would refer to destinations in either direction on the main trail. The B side would generally refer to a destination along the side trail, or it may contain a regulatory message.

(3) Signs may also be placed along straight sections of trail, away from junctions, if necessary to reinforce directions to destinations further along the trail.

Additional factors effecting sign placement include adequate clearance from landscape elements, and clear line of sight.

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