Portsmouth, NH
Wayfinding and Signage System
City of Portsmouth, NH
Planning Department

100% DESIGN INTENT DRAWINGS
January 31, 2014
Rev: March 14, 2014
# Table of Contents

## Section 1 – SIGN SYSTEM STANDARDS

A. Graphic Standards
   - Typography Specifications .................................. A.1
   - Project Artwork ............................................ A.5
   - Color Chart ................................................ A.6

B. Placement Guidelines
   - Standard Sign Placements ................................ B.1

## Section 2 – SIGNAGE DRAWINGS

C. Menu of Sign Types
   - Gateway Signage Overview (PLACEHOLDER) ... C.1
   - Vehicular Signage Overview .......................... C.2
   - Parking Signage Overview ............................ C.3
   - Pedestrian Signage Overview ....................... C.5
   - Regulatory Signage Overview ....................... C.6

D. Design Intent Drawings
   - VDIR.1 ...................................................... D.1
   - VDIR.1L ..................................................... D.2
   - VDIR.2 ...................................................... D.3
   - VDIR.2L .................................................... D.4
   - VDIR.3 ...................................................... D.5
   - VDIR.3L .................................................... D.6
   - VDIR.4 ...................................................... D.7
   - VDIR.5 ...................................................... D.8
   - VDIR.6 ...................................................... D.9
   - PARK.1 ..................................................... D.10
   - PARK.2 ..................................................... D.11
   - PARK.2L .................................................... D.12
   - PARK.3 ..................................................... D.13
   - PARK.4-7 .................................................. D.14
   - PARK.4 ..................................................... D.17
   - PARK.5 ..................................................... D.18
   - PARK.6 ..................................................... D.19
   - PARK.7 ..................................................... D.20
   - PARK.8 ..................................................... D.21
   - PED.1 ....................................................... D.22
   - PED.2 ....................................................... D.23
   - KIOSK.1 .................................................... D.24
   - PLAQUE.1 ................................................ D.25
   - KIOSK.2 .................................................... D.26
   - REG.1 ....................................................... D.27
   - REG.2 ....................................................... D.28

E. Graphic Layouts

F. Construction Details

## Section 3 – PERFORMANCE SPECIFICATIONS

## Section 4 – PROGRAMMING
SECTION 1  |  Sign System Standards
Clearview Highway
ABCDEFHGIJKLMNOPQRSTUVWXYZ
abcdefhgiJKLMNOPQRSTUVWXYZ
1234567890 '!'@#$%^~

Amongst the several mechanical Arts that have engaged my attention, there is no one which I have pursued with so much steadiness and pleasure, as that of Letter Founding.

Downtown acceptable
Downtown NOT acceptable
Downtown NOT acceptable

123A acceptable
123A NOT acceptable
123A NOT acceptable

Sometimes the Foot mark is mistaken for an apostrophe and an inch mark is mistaken for quotations. Below are examples of correct and incorrect apostrophe's for each typeface.

Clearview Highway

This apostrophe is CORRECT.

PARK'S

This apostrophe is INCORRECT.

PARK'S

This typeface is the primary typeface for most of the vehicular signage.
Amongst the several mechanical Arts that have engaged my attention, there is no one which I have pursued with so much steadiness and pleasure, as that of Letter Founding.

**Bookman Old Style Bold**

<table>
<thead>
<tr>
<th></th>
<th>Downtown</th>
<th>Downtown</th>
<th>Downtown</th>
</tr>
</thead>
<tbody>
<tr>
<td>acceptable</td>
<td>NOT acceptable</td>
<td>NOT acceptable</td>
<td>NOT acceptable</td>
</tr>
</tbody>
</table>

| 123A | acceptable | 123A | NOT acceptable |

**Mrs Eaves Small Caps**

<table>
<thead>
<tr>
<th></th>
<th>Downtown</th>
<th>Downtown</th>
<th>Downtown</th>
</tr>
</thead>
<tbody>
<tr>
<td>acceptable</td>
<td>NOT acceptable</td>
<td>NOT acceptable</td>
<td>NOT acceptable</td>
</tr>
</tbody>
</table>

| 123A | NOT acceptable | 123A | NOT acceptable |

**Typography Specifications**

All type shall be set exactly as specified. Substitutions will only be accepted at the DESIGNER’S discretion, where they match the specified typeface in every detail. The FABRICATOR should be aware that different versions of typesetting equipment may not satisfactorily match specified typefaces and in such instances will not be acceptable.

Sometimes the foot mark is mistaken for an apostrophe and an inch mark is mistaken for quotations. Below are examples of correct and incorrect apostrophes for each typeface.

<table>
<thead>
<tr>
<th><strong>Bookman Old Style Bold</strong></th>
<th><strong>Futura Book</strong></th>
<th><strong>Futura Condensed Medium</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>This apostrophe is CORRECT.</td>
<td>This apostrophe is CORRECT.</td>
<td>This apostrophe is CORRECT.</td>
</tr>
<tr>
<td>PARK’S</td>
<td>PARK’S</td>
<td>PARK’S</td>
</tr>
<tr>
<td>This apostrophe is INCORRECT.</td>
<td>This apostrophe is INCORRECT.</td>
<td>This apostrophe is INCORRECT.</td>
</tr>
<tr>
<td>PARK’S</td>
<td>PARK’S</td>
<td>PARK’S</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th><strong>Mrs Eaves Small Caps</strong></th>
<th><strong>Futura Book</strong></th>
<th><strong>Futura Condensed Medium</strong></th>
</tr>
</thead>
<tbody>
<tr>
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<td>This apostrophe is CORRECT.</td>
<td>This apostrophe is CORRECT.</td>
</tr>
<tr>
<td>PARK’S</td>
<td>PARK’S</td>
<td>PARK’S</td>
</tr>
<tr>
<td>This apostrophe is INCORRECT.</td>
<td>This apostrophe is INCORRECT.</td>
<td>This apostrophe is INCORRECT.</td>
</tr>
<tr>
<td>PARK’S</td>
<td>PARK’S</td>
<td>PARK’S</td>
</tr>
</tbody>
</table>

**Notes**

These typefaces are primary typefaces and are used within the identity system.

**Portsmouth, NH**

Wayfinding and Signage System

120 North Church Street
Suite 208
West Chester, PA 19380

T 484.266.0648

www.merjedesign.com
Myriad Pro Condensed
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz1234567890’"@#$%^&

Amongst the several mechanical Arts that have engaged my attention, there is no one which I have pursued with so much steadiness and pleasure, as that of Letter Founding.

Myriad Pro Bold Condensed
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz1234567890’"@#$%^&

Amongst the several mechanical Arts that have engaged my attention, there is no one which I have pursued with so much steadiness and pleasure, as that of Letter Founding.
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**LETTER-SPACING**

Inconsistencies in Letter Spacing

**TYPEFACE 1**

Portsmouth

**TYPEFACE 2**

PORTSMOUTH

**TYPEFACE 3**

Portsmouth

**IMPORTANT:** Individual spacing of each letter needs to be evaluated. See Examples Above. Kern all Copy so that each character is optically centered between the center of each of the surrounding characters.

**SIGN TEXT STANDARDS**

**COPY HEIGHT**

When measuring copy height, measure only the height of the Capital letters to determine your overall copy height (shown in illustration below as "X"). Some of the other letters have an extended height beyond the average height of the letters.

**LINE SPACING**

When measuring line spacing, always measure from the baseline of the topmost text line to the baseline of the text line below (shown as "X").

---

**PORTSMOUTH, NH**
Wayfinding and Signage System
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**ENVIRONMENTS & EXPERIENCES**

**NOTES**

**Typography Specifications**

Inconsistencies in Letter Spacing

**TYPEFACE 1**

Portsmouth

**TYPEFACE 2**

PORTSMOUTH

**TYPEFACE 3**

Portsmouth

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**SPECIFICATIONS**

All artwork pictured on this page will be provided to the sign fabricator by the designer and/or client. This artwork must be used for all sign applications in this provided documentation. Do NOT substitute with any other artwork!

**GRAPHIC ELEMENTS**

**PORTSMOUTH MARKET SQUARE WATERFRONT**

**SYMBOLS**

**ARROWS**

Left Arrow  Up-Left Arrow  Straight Arrow  Up-Right Arrow  Right Arrow
Straight-Left Arrow  Up-Straight-Left Arrow  Up-Straight-Right Arrow  Straight-Right Arrow

**USE of Arrows**

When multiple directions are required on a sign, the following directional hierarchy shall take precedence. See Example below. Reference Message Schedule for individual Messages.

- Straight Arrow
- Left Arrow
- Right Arrow

**NOTES**

**E N V I R O N M E N T S & E X P E R I E N C E S**

**CLIENT / PROJECT**

PORTSMOUTH, NH
Wayfinding and Signage System

**PROJECT NO.**

**DRAWN BY:**

**SHEET NO.**

**DRAFTS:**

**DATE:**

11/18/2013

**LH, PR**

**SUBCONSULTANT**

**SUBJECT:**

**ENVIRONMENTAL & EXPERIENCES**

120 North Church Street
Suite 208
West Chester, PA 19380
T 484.266.0648
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**Project Artwork**

A.5
<table>
<thead>
<tr>
<th>NAME</th>
<th>SPECIFICATION</th>
<th>APPLICABLE</th>
<th>PROCESS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REFLECTIVE VINYL</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R1</td>
<td>White</td>
<td>3M High Intensity Prismatic Reflective Sheeting</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>R4</td>
<td>Teal</td>
<td>3M High Intensity Prismatic Reflective Sheeting</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>R5</td>
<td>Orange</td>
<td>3M High Intensity Prismatic Reflective Sheeting</td>
<td>Standard for System (typ.)</td>
</tr>
</tbody>
</table>

**X VINYL**

<table>
<thead>
<tr>
<th>NAME</th>
<th>SPECIFICATION</th>
<th>APPLICABLE</th>
<th>PROCESS</th>
</tr>
</thead>
</table>

**P PAINTS**

<table>
<thead>
<tr>
<th>NAME</th>
<th>SPECIFICATION</th>
<th>APPLICABLE</th>
<th>PROCESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>Navy</td>
<td>To match PMS 1946</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>P2</td>
<td>Green</td>
<td>To match PMS 5625</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>P3</td>
<td>Citron</td>
<td>To match PMS 6004</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>P4</td>
<td>Teal</td>
<td>To match PMS 5503</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>P5</td>
<td>Brown</td>
<td>To match PMS 412</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>P7</td>
<td>Black to Back</td>
<td>To match AP15647</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>P8</td>
<td>Light Teal</td>
<td>To match PMS 624</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>P10</td>
<td>Orange</td>
<td>To match PMS 130</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>P11</td>
<td>Royal Blue</td>
<td>To match PMS 130</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>P12</td>
<td>Light Silver Metallic</td>
<td>Light Silver Metallic</td>
<td>Standard for System (typ.)</td>
</tr>
<tr>
<td>P13</td>
<td>Yellow</td>
<td>To match PMS 130</td>
<td>Standard for System (typ.)</td>
</tr>
</tbody>
</table>

**NOTES**

- MUST comply with MUTCD section Table 2A-3 – Minimum maintained retroreflectivity levels. Approved process: Durst RHO 161 TS printer. Sherine Industries: (604) 513-1887.
- NOTE: All 3M products are to be processed and applied according to 3M specifications. The seaming of material is NOT preferred. If the height of a sign panel is greater than 48 inches, *MUST* comply with MUTCD section Table 2A-3 – Minimum maintained retroreflectivity levels. Approved process: Durst RHO 161 TS printer. Sherine Industries: (604) 513-1887.
- The colors must look exactly the same every time they are used so that people associate them with the Portsmouth New Hampshire Wayfinding Program. All media, vinyl, paint, and inks must be produced so that the colors match as specified on this page.
Placement Guidelines
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

**SPECIFICATIONS**

**Lateral Clearance Guidelines**

Within some of the Downtown areas of Portsmouth New Hampshire urban conditions and narrow sidewalks may cause deviation from the standards articulated in the previous figures. Conditions may include less lateral clearance for the 2'-0" or 5'-0" preferred distance from edge of sign panel to curb, or placement at 2'-0" or 5'-0" would create an obstacle (i.e. post positioned in middle of the sidewalk) or create situations of non-compliance to ADA clearances.

In these cases guidelines must be consistent with MUTCD Section 2A.19 options for urban areas.

Suggested recommendations for relocation of signs if placement is in conflict with guidelines.

**OPTION A:** Position the sign at a minimum of 2'-0" or 5'-0" (face of curb to edge of sign panel) as required.

**OPTION B:** If the sign can be moved, without disrupting routing or sequencing, then it should be repositioned to achieve the 2'-0" or 5'-0" min.

If 2'-0" is not physically possible, then the following options should be allowed:

**OPTION C:** The sign set back should be position at 1'-6". If that is not possible then...

**OPTION D:** Utilize a minimum 1'-0", in accordance with MUTCD, only as a final option.

<table>
<thead>
<tr>
<th>SIGN TYPE</th>
<th>MEASURE</th>
<th>PREFERRED DISTANCE</th>
<th>MINIMUM DISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Distance from Edge of Sign Panel to Edge of Curb</td>
<td>2'-0&quot; or more</td>
<td>1'-0&quot;</td>
</tr>
<tr>
<td>b</td>
<td>Distance from Sign Post to Nearest Obstruction</td>
<td>4'-0&quot; or more</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>c</td>
<td>Distance from Edge of Sign Panel to Nearest Overhead Obstruction</td>
<td>4'-0&quot; or more</td>
<td>1'-0&quot;</td>
</tr>
<tr>
<td>d</td>
<td>Sign Placement in Relation to Adjacent Building</td>
<td>align to building Edge</td>
<td>Do Not obstruct Entrance</td>
</tr>
<tr>
<td>e</td>
<td>Distance from Face of Sign to Nearest Tree Branch</td>
<td>20'-0&quot; or more</td>
<td>15'-0&quot;</td>
</tr>
<tr>
<td>f</td>
<td>Distance from Face of Sign to Nearest Utility Pole</td>
<td>15'-0&quot; or more</td>
<td>10'-0&quot;</td>
</tr>
<tr>
<td>g</td>
<td>Distance from Back of Sign to Nearest Tree Branch</td>
<td>8'-0&quot; or more</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>h</td>
<td>Distance from Back of Sign to Nearest Utility Pole</td>
<td>15'-0&quot; or more</td>
<td>10'-0&quot;</td>
</tr>
</tbody>
</table>

Measurements and Distances shown are guidelines only prevailing local and state codes shall supersede information presented.
Lateral Clearance Guidelines

Within some of the Downtown areas of Portsmouth New Hampshire, urban conditions and narrow sidewalks may cause deviation from the standards articulated in the previous figures. Conditions may include less lateral clearance for the 2'-0" or 5'-0" preferred distance from edge of sign panel to curb, or placement at 2'-0" or 5'-0" would create an obstacle (i.e. post positioned in middle of the side walk) or create situations of non-compliance to ADA clearances.

In these cases guidelines must be consistent with MUTCD Section 2A.19 options for urban areas.

Suggested recommendations for relocation of signs if placement is in conflict with guidelines.

OPTION A: Position the sign at a minimum of 2'-0" or 5'-0" (face of curb to edge of sign panel) as required.

OPTION B: If the sign can be moved, without disrupting routing or sequencing, then it should be repositioned to achieve the 2'-0" or 5'-0" min.

If 2'-0" is not physically possible, then the following options should be allowed:

OPTION C: The sign set back should be position at 1'-0". If that is not possible then...

OPTION D: Utilize a minimum 1'-0", in accordance with MUTCD, only as a final option.

NOTE:

All locations shall be installed within the City ROW. If during the initial survey it is determined any part of the sign (pole or panel) extends outside of the City’s Right of Way vertical plane and into private property, the installer must notify the city prior to fabrication/installation.

Reference View: Example - 5 foot Furnishing Zone / City Right of Way

SCALE: Not To Scale

Note: Top View of VDIR.1-3 shown as example.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.
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1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

NOTES:

Parking Signage

Overview

PORTSMOUTH, NH
November 2013 – Schematic Design

PARKING:

PARK.1 Parking Lot Trailblazer (SS Strap-mounted)
PARK.2 Parking Lot Directional (Post-mounted)
PARK.3 Parking Lot Identification (Post-mounted)
PARK.4 Parking Garage Identification (Overhead)
PARK.5 Parking Garage Directional (Overhead)
PARK.6 LED Parking Sign (Post-mounted)
PARK.8 Parking Signage (Overhead)
PARK.7 Parking Lot Directional (Post-mounted)

SCALE: 3/8" = 1'-0"
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CITY OF PORTSMOUTH, NH

January 2014 – Schematic Design

PARKING SIGNAGE

PARK.7
Parking Garage Identification
(Mounted Letters)

PARK.8
Parking Garage Directional
(Overhead)

SCALE: 3/8” = 1’-0”

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator shall obtain approval from the Designer or Client for placement prior to fabrication.
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3. Hardware: All exposed hardware shall be tamper proof fasteners.
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NOTES:

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ENVIRONMENTS & EXPERIENCES

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C.6

SPECIFICATIONS

PORTSMOUTH, NH
Wayfinding and Signage System
120 North Church Street
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1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the designer or client before proceeding.
2. Welds: All welds shall be ground smooth, paint all seams.
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4. All exposed edges painted to match adjacent face.

NOTES:

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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper-proof fasteners.
4. All exposed edges painted to match adjacent face.
The Color Designator Chart is found in the Graphic Standards section.
The Specification Notation is found on the same page as the drawings.
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

5. SIGN PANEL BRACKET
   MATERIAL: Aluminum Angle - 1/4" wall
   FABRICATION PROCESS: Extruded, Saw Cut
   EDGES: Square, Smooth
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Tamper resistant mechanically fastened to post.

6. SIGN PANEL BACKS - PAINT
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

7. ART PATTERN BACK PANEL
   MATERIAL: Cast Aluminum
   CORNERS: Square, Smooth
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Tamper resistant mechanically fastened to panel and Panel Bracket.

8. DECORATIVE TOP BRACKET
   MATERIAL: Aluminum Angle - 1" wide x .1620" wall (6 gauge)
   FABRICATION PROCESS: Router Cut, Rolled, Brake-formed
   EDGES: Square, Smooth
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Weld rolled bracket to flat stock. Tamper resistant mechanically fastened to post and Panel Bracket.

NOTES
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. Fabricator must verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

5. Custom Finial - All Posts
   - Material: Cast Aluminum
   - Corners: Square, Smooth
   - Color: Custom, as noted
   - Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - Fastener: Tamper-resistant mechanically fastened to post.

6. Sign Panel Bracket
   - Material: Aluminum Angle - 1/8" wall
   - Fabrication Process: Extruded, Saw Cut
   - Edges: Square, Smooth
   - Color: Custom, as noted
   - Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - Fastener: Tamper-resistant mechanically fastened to post.

7. 1/4" Sign Panel Front - Reflective
   - Material: 1/4" thick Aluminum sheet
   - Fabrication Process: Router Cut
   - Edges: Smooth
   - Color: Custom, as noted
   - Graphic Background and Copy Process: 3M custom inks print direct to vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.
   - Fastener: Press-roll per 3M requirements.

8. Sign Panel Back - Paint
   - Color: Custom, as noted
   - Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

9. Art Pattern Back Panel
   - Color: Custom
   - Graphics Application: Applied Vinyl
   - Graphic Background and Copy Process: 3M custom inks print direct to vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.

10. Decorative Top Bracket
    - Material: Aluminum sheet - 1" wide x ¾" thick
    - Fabrication Process: Router Cut, Rolled, Brake-formed
    - Edges: Square, Smooth
    - Color: Custom, as noted
    - Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
    - Fastener: Weld cold bracket to flat stock. Tamper-resistant mechanically fastened to post and Panel Bracket.

11. Decorative Bottom Panel
    - Color: Custom
    - Graphics Application: Applied Vinyl
    - Surface Process: 3M custom inks print direct to vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.

12. Decorative Top Bracket
    - Material: Aluminum Angle - 1/8" wall
    - Fabrication Process: Extruded, Saw Cut
    - Edges: Square, Smooth
    - Color: Custom, as noted
    - Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
    - Fastener: Tamper-resistant mechanically fastened to post.

13. Decorative Bottom Panel
    - Color: Custom
    - Graphics Application: Applied Vinyl
    - Surface Process: 3M custom inks print direct to vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.
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**D.3**

### 2. 4.5" SQUARE POST
- **MATERIAL:** Aluminum Square Tube 6061 - 4.50" x 4.50" x .250" wall
- **FABRICATION PROCESS:** Extruded
- **COLOR:** Custom, as noted
- **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
- **FASTENER:** Tamper-resistant mechanically fastened to post.

### 4. CUSTOM FINIAL - ALL POSTS
- **MATERIAL:** Cast Aluminum
- **COLOR:** Custom, as noted
- **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
- **FASTENER:** Tamper-resistant mechanically fastened to post.

### 6. SIGN PANEL BRACKET
- **MATERIAL:** Aluminum Angle - .250" wall
- **FABRICATION PROCESS:** Extruded, Saw Cut
- **COLOR:** Custom, as noted
- **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
- **FASTENER:** Tamper-resistant mechanically fastened to post.

### 7. 1/4" SIGN PANEL FRONT - REFLECTIVE
- **MATERIAL:** 1/4" thk Aluminum sheet
- **FABRICATION PROCESS:** Router Cut
- **COLOR:** Custom, as noted
- **GRAPHIC BACKGROUND AND COPY PROCESS:** 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
- **FASTENER:** Press-roll per 3M requirements.

### 8. SIGN PANEL BACKS - PAINT
- **COLOR:** Custom, as noted
- **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

### ART PATTERN BACK PANEL
- **COLOR:** Custom
- **GRAPHICS APPLICATION:** Applied Vinyl
- **SURFACE PROCESS:** Graphic Background and Copy Process.
- **FASTENER:** Tamper-resistant mechanically fastened to Panel Bracket.

### DECORATIVE TOP BRACKET
- **MATERIAL:** Aluminum sheet - 1" wide x .1620" gauge
- **FABRICATION PROCESS:** Router Cut, Rolled, Brake-formed
- **COLOR:** Custom, as noted
- **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
- **FASTENER:** Weld rolled bracket to flat stock. Tamper-resistant mechanically fastened to post and Panel Bracket.

### BREAKAWAY FOOTER
- **FOOTER:** The Transpo® break-away system, according to specifications per NHDOT.
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**ARTWORK**
- TBD

**ENVIRONMENTS & EXPERIENCES**
- Portsmouth, NH
- Wayfinding and Signage System

1. **Fabricator** to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
   - Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. **Welds**: All welds shall be ground smooth, paint all seams.

3. **Hardware**: All exposed hardware shall be tamper-proof fasteners.

4. **All exposed edges painted to match adjacent face.**

5. **CUSTOM FINIAL - ALL POSTS**
   - **MATERIAL**: Cast Aluminum
   - **Corners**: Square, Smooth
   - **Color**: Custom, as noted
   - **Surface Process**: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **Fastener**: Tamper-resistant mechanically fastened to post.

6. **SIGN PANEL BRACKET**
   - **MATERIAL**: Aluminum Angle - 0.250” wall
   - **Fabrication Process**: Extruded, Saw Cut
   - **Edges**: Square, Smooth
   - **Color**: Custom, as noted
   - **Surface Process**: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **Fastener**: Tamper-resistant mechanically fastened to post.

7. **1/4” SIGN PANEL FRONT - REFLECTIVE**
   - **Material**: 1/4” thin Aluminum sheet
   - **Fabrication Process**: Router Cut
   - **Edges**: Smooth
   - **Color**: Custom, as noted
   - **Graphic Background and Copy Process**: 3M custom inks print direct to Vinyl with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   - **Fastener**: Press-roll per 3M requirements.

8. **SIGN PANEL BACKS - PAINT**
   - **Color**: Custom, as noted
   - **Surface Process**: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

9. **ART PATTERN BACK PANEL**
   - **Color**: Custom
   - **Graphics Application**: Applied Vinyl
   - **Surface Process**: Graphic Background and Copy Process. 3M custom inks print direct to Vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.

10. **DECORATIVE TOP BRACKET**
    - **Material**: Aluminum sheet - 1” wide x 0.162” gauge
    - **Fabrication Process**: Router Cut, Rolled, Brake-formed
    - **Edges**: Square, Smooth
    - **Color**: Custom, as noted
    - **Surface Process**: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
    - **Fastener**: Welded rolled bracket to flat stock. Tamper-resistant mechanically fastened to post and Panel Bracket.

NOTES
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper-proof fasteners.
4. All exposed edges painted to match adjacent face.

**CLIENT / PROJECT**
- Portsmouth, NH
- Wayfinding and Signage System

**PROJECT NO.**
- D.4

**SIGN TYPE**
- VDIR.2L

**FUNCTION**
- Vehicular Directional
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1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
5. 4.5" SQUARE POST
   MATERIAL: Aluminum Square Tube 6061 - 4.50" x 4.50" x .250" wall
   FABRICATION PROCESS: Extruded
   CORNERS: Square, Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Tamper resistant mechanically fastened to post.

2. CUSTOM FINIAL - ALL POSTS
   MATERIAL: Cast Aluminum
   CORNERS: Square, Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Welded bracketed to flat stock. Tamper resistant mechanically fastened to post and Panel Bracket.

3. 1/4" SIGN PANEL FRONT - REFLECTIVE
   MATERIAL: 1/4" thk Aluminum sheet
   FABRICATION PROCESS: Router Cut
   EDGES: Smooth
   COLOR: Custom, as noted
   GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to Vinyl with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   FASTENER: Press-roll per 3M requirements.

4. SIGN PANEL BACKS - PAINT
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Weld rolled bracket to flat stock. Tamper resistant mechanically fastened to post and Panel Bracket.

5. ART PATTERN BACK PANEL
   MATERIAL: Cast Aluminum
   CORNERS: Square, Smooth
   COLOR: Custom
   GRAPHICS APPLICATION: 3M custom inks print direct to Vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.
   FASTENER: Weld rolled bracketed to flat stock. Tamper resistant mechanically fastened to post and Panel Bracket.

6. DECORATIVE TOP BRACKET
   MATERIAL: Aluminum sheet - 1" wide x .1620" wall .0625" gauge
   FABRICATION PROCESS: Router Cut, Rolled, Brake-formed
   EDGES: Square, Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Weld rolled bracket to flat stock. Tamper resistant mechanically fastened to post and Panel Bracket.

7. BREAKAWAY FOOTER
   FOOTER: The Transpo® break-away system, according to specifications per NHDOT.
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1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

5. Sign Panel Bracket:
   - Material: Aluminum Angle - .250" wall
   - Fabrication Process: Extruded, Saw Cut
   - Edges: Square, Smooth
   - Color: custom, as noted
   - Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - Fastener: Tamper-resistant mechanically fastened to post.

6. Sign Panel Backs - Paint
   - Color: custom, as noted
   - Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

7. Sign Panel Front - Reflective
   - Material: 1/4" thk Aluminum sheet
   - Fabrication Process: Router Cut
   - Edges: Smooth
   - Color: custom, as noted
   - Graphic Background and Copy Process: 3M custom inks print direct to Vinyl with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   - Fastener: Press-roll per 3M requirements.

8. Decorative Top Bracket:
   - Material: Aluminum sheet - 1" wide x .1620" wall (6 gauge)
   - Fabrication Process: Router Cut, Rolled, Brake-formed
   - Edges: Square, Smooth
   - Color: custom
   - Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - Fastener: Weld rolled bracket to flat stock. Tamper-resistant mechanically fastened to post and Panel Bracket.

10. Breakaway Footer
    - Footer: The Transpo® break-away system, according to specifications per NHDOT.

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**NOTES**

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   - Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

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3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

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**Environments & Experiences**

120 North Church Street
Suite 208
West Chester, PA 19380
T 484.266.0648
www.merjedesign.com

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**Specifications Sign Type VDIR.3L Function: Vehicular Directional**

2. 4.5" SQUARE POST
   - Material: Aluminum Square Tube 6061 - 4.50" x 4.50" x .250" wall
   - Fabrication Process: Extruded
   - Edges: Square, Smooth
   - Color: Custom, as noted
   - Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - Footer: As per NHDOT breakaway specs.

4. CUSTOM FINISH - ALL POSTS
   - Material: Cast Aluminum
   - Edges: Square, Smooth
   - Color: custom, as noted
   - Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - Fastener: Tamper resistant mechanically fastened to post.

11. Decorative Top Bracket
    - Material: Aluminum sheet - 1" wide x .1620" wall (6 gauge)
    - Fabrication Process: Router Cut, Rolled, Brake-formed
    - Edges: Square, Smooth
    - Color: custom
    - Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
    - Fastener: Weld rolled bracket to flat stock. Tamper-resistant mechanically fastened to post and Panel Bracket.

35. Breakaway Footer
    - Footer: The Transpo® break-away system, according to specifications per NHDOT.

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**Graphic Application**

TBD
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   - Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

5. 6” SQUARE POST
   - MATERIAL: Aluminum Square Tube 6061 - 6" x 6" x .250" wall
   - FABRICATION PROCESS: Extruded
   - CORNERS: Square, Smooth
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Tamper resistant mechanically fastened to post.

6. SIGN PANEL BRACKET
   - MATERIAL: Aluminum Angle - .250" wall
   - FABRICATION PROCESS: Extruded, Saw Cut
   - EDGES: Square, Smooth
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Tamper resistant mechanically fastened to post.

7. 1/4” SIGN PANEL FRONT - REFLECTIVE
   - MATERIAL: 1/4” thk Aluminum sheet
   - FABRICATION PROCESS: Router Cut
   - EDGES: Smooth
   - COLOR: Custom, as noted
   - GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to Vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.
   - FASTENER: Press-roll per 3M requirements.

8. SIGN PANEL BACKS - PAINT
   - MATERIAL: Custom
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

9. ART PATTERN BACK PANEL
   - MATERIAL: Aluminum sheet - .125” wall .015 gauge
   - FABRICATION PROCESS: Router Cut, Rolled, Brake-formed
   - EDGES: Square, Smooth
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Weld rolled bracket to flat stock. Tamper-resistant mechanically fastened to post and Panel Bracket.

35. BREAKAWAY FOOTER
   - FOOTER: The Transpo® break-away system, according to specifications per NHDOT.

35. BREAKAWAY FOOTER
   - FOOTER: The Transpo® break-away system, according to specifications per NHDOT.

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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

EQUIPMENT & EXPERIENCES
PORTSMOUTH, NH
Wayfinding and Signage System

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SUBCONSULTANT

SHEET TITLE

DATE

11/18/2013

DRAWN BY

LH, PR

D.7
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3. **6" SQUARE POST**
   - **MATERIAL:** Aluminum Square Tube 6061 - 6" x 6" x .250" wall
   - **FABRICATION PROCESS:** Extruded
   - **CORNERS:** Square, Smooth
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Tamper resistant mechanically fastened to post.

4. **CUSTOM FINS - ALL POSTS**
   - **MATERIAL:** Cast Aluminum
   - **CORNERS:** Square, Smooth
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Tamper resistant mechanically fastened to post.

5. **SIGN PANEL BRACKET**
   - **MATERIAL:** Aluminum Angle - .250" wall
   - **FABRICATION PROCESS:** Extruded, Saw Cut
   - **CORNERS:** Square, Smooth
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Tamper resistant mechanically fastened to post.

6. **1/4" SIGN PANEL FRONT - REFLECTIVE**
   - **MATERIAL:** 1/4" thk Aluminum sheet
   - **FABRICATION PROCESS:** Router Cut
   - **EDGES:** Smooth
   - **COLOR:** Custom, as noted
   - **GRAPHIC BACKGROUND AND COPY PROCESS:** 3M custom inks print direct to 3M approved UV/Graffiti Vinyl Over-laminate.
   - **FASTENER:** Press-roll per 3M requirements.

7. **SIGN PANEL BACKS - PAINT**
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

8. **ART PATTERN BACK PANEL**
   - **COLOR:** Custom
   - **GRAPHICS APPLICATION:** Applied Vinyl
   - **SURFACE PROCESS:** Graphic Background and Copy Process: 3M custom inks print direct to Vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.

9. **DECORATIVE TOP BRACKET**
   - **MATERIAL:** Aluminum sheet - 1" wide x .1620" wall @ 5-gauge
   - **FABRICATION PROCESS:** Router Cut, Rolled, Brake-formed
   - **EDGES:** Square, Smooth
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Welded bracket to flat stock. Tamper resistant mechanically fastened to post and Panel Bracket.

10. **BREAKAWAY FOOTER**
    - **FOOTER:** The Transpo® break-away system, according to specifications per NHDOT.

**NOTES**
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
5. 6" SQUARE POST
   - **MATERIAL:** Aluminum Square Tube 6061 - 6" x 6" x .250" wall
   - **FABRICATION PROCESS:** Extruded
   - **CORNERS:** Square, Smooth
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FOOTER:** As per NHDOT breakaway specs.
3. 6" SQUARE POST
MATERIAL: Aluminum Square Tube 6061 - 6" x 6" x .250" wall
FABRICATION PROCESS: Extruded
CORNERS: Square, Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: As per NDOT breakaway specs.

4. CUSTOM FINIAL - ALL POSTS
MATERIAL: Cast Aluminum
CORNERS: Square, Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Tamper resistant mechanically fastened to post.

6. SIGN PANEL BRACKET
MATERIAL: Aluminum Angle - .250" wall
FABRICATION PROCESS: Extruded, Saw Cut
EDGES: Square, Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Tamper resistant mechanically fastened to post.

7. 1/4" SIGN PANEL FRONT - REFLECTIVE
MATERIAL: 1/4" thk Aluminum sheet
FABRICATION PROCESS: Router Cut
EDGES: Smooth
COLOR: Custom, as noted
GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to Vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.
FASTENER: Press-roll per 3M requirements.

8. SIGN PANEL BACKS - PAINT
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

9. ART PATTERN BACK PANEL
COLOR: Custom
GRAPHICS APPLICATION: Applied Vinyl
SURFACE PROCESS: Graphic BACKGROUND AND COPY PROCESS: 3M custom ink print direct to Vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.

11. DECORATIVE TOP BRACKET
MATERIAL: Aluminum sheet - 1" wide x .1620" wall (.063")
FABRICATION PROCESS: Router Cut, Rolled, Brake-formed
EDGES: Square, Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Weld rolled bracket to flat stock.

35. BREAKAWAY FOOTER
FOOTER: The Transpo® break-away system, according to specifications per NDOT.

NOTES
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

PORTSMOUTH, NH
Wayfinding and Signage System
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1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
5. 1/8" SIGN PANEL FRONT - REFLECTIVE
   MATERIAL: 1/8" thk Aluminum sheet
   FABRICATION PROCESS: Router Cut
   EDGES: Smooth
   COLOR: custom, as noted
   GRAPHIC BACKGROUND AND COPY PROCESS:
   3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   FASTENER: Press-roll per 3M requirements.

6. SLEEVE
   MATERIAL: Aluminum U-channel (.1620" wall)
   FABRICATION PROCESS: Extruded
   EDGES: Square, Smooth
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Tamper-resistant mechanically fastened to sign panel.

7. POLE STRAP ATTACHMENT
   PRODUCT: Band-It Band, or approved equal.
   MATERIAL: Type 201 SS
   SIZE: 3/4 inch
   FINISH: Finish is to match color of existing pole.
   Utility pole-stainless steel
   Historic black pole-black band (P900)
   FASTENER: Ultra-Lok® Free End clamps
   NOTE: Sign Contractor to coordinate the removal or movement of interfering existing signs on poles, with the city.

NOTES
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
5. 1/8" SIGN PANEL FRONT - REFLECTIVE
   MATERIAL: 1/8" thk Aluminum sheet
   FABRICATION PROCESS: Router Cut
   EDGES: Smooth
   COLOR: custom, as noted
   GRAPHIC BACKGROUND AND COPY PROCESS:
   3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   FASTENER: Press-roll per 3M requirements.

13. SLEEVE
   MATERIAL: Aluminum U-channel (.1620" wall)
   FABRICATION PROCESS: Extruded
   EDGES: Square, Smooth
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Tamper-resistant mechanically fastened to sign panel.

14. POLE STRAP ATTACHMENT
   PRODUCT: Band-It Band, or approved equal.
   MATERIAL: Type 201 SS
   SIZE: 3/4 inch
   FINISH: Finish is to match color of existing pole.
   Utility pole-stainless steel
   Historic black pole-black band (P900)
   FASTENER: Ultra-Lok® Free End clamps
   NOTE: Sign Contractor to coordinate the removal or movement of interfering existing signs on poles, with the city.

CLIENT / PROJECT
PORTSMOUTH, NH
Wayfinding and Signage System

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www.merjedesign.com
ENvironments & Experiences
Sign Type PARK.1
Parking Lot Trailblazer

D.10
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

2. **4.5" SQUARE POST**
   - MATERIAL: Aluminum Square Tube 6061 - 4.50" x 4.50" x .250" wall
   - FABRICATION PROCESS: Extruded
   - CORNERS: Square, Smooth
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Tamper resistant mechanically fastened to post.

3. **CUSTOM FINIAL - ALL POSTS**
   - MATERIAL: Cast Aluminum
   - CORNERS: Square, Smooth
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Tamper-resistant mechanically fastened to post.

4. **SIGN PANEL BRACKET**
   - MATERIAL: Aluminum Angle - .250" wall
   - FABRICATION PROCESS: Extruded, Saw Cut
   - EDGES: Square, Smooth
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Tamper-resistant mechanically fastened to post.

5. **1/4" SIGN PANEL FRONT - REFLECTIVE**
   - MATERIAL: 1/4" thick Aluminum sheet
   - FABRICATION PROCESS: Router Cut
   - EDGES: Smooth
   - COLOR: Custom, as noted
   - GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   - FASTENER: Press-roll per 3M requirements.

6. **SIGN PANEL BACK - PAINT**
   - MATERIAL: Custom, as noted
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

7. **ART PATTERN BACK PANEL**
   - MATERIAL: Aluminum sheet - 1" wide x .1620" wall (if gouged)
   - FABRICATION PROCESS: Router Cut, Rolled, Brake-formed
   - EDGES: Square, Smooth
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Weld rolled bracket to flat stock. Tamper-resistant mechanically fastened to post and Panel Bracket.

8. **BREAKAWAY FOOTER**
   - MATERIAL: The Transpo® break-away system, according to specifications per NHDOT.
SPECIFICATIONS

**SIGN TYPE:** PARK.2L  
**FUNCTION:** Parking Directional

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2. **4.5" SQUARE POST**  
**MATERIAL:** Aluminum Square Tube 6061 - 4.50" x 4.50" x 0.250" wall  
**FABRICATION PROCESS:** Extruded  
**CORNERS:** Square, Smooth  
**COLOR:** Custom, as noted  
**SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
**FOOTER:** As per NH DOT breakaway specs.

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4. **CUSTOM FINAL - ALL POSTS**  
**MATERIAL:** Cast Aluminum  
**CORNERS:** Square, Smooth  
**COLOR:** Custom, as noted  
**SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
**FASTENER:** Tamper resistant mechanically fastened to post.

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6. **SIGN PANEL BRACKET**  
**MATERIAL:** Aluminum Angle - 0.250" wall  
**FABRICATION PROCESS:** Extruded, Saw Cut  
**EDGES:** Square, Smooth  
**COLOR:** Custom, as noted  
**SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
**FASTENER:** Tamper resistant mechanically fastened to post.

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7. **1/4" SIGN PANEL FRONT - REFLECTIVE**  
**MATERIAL:** 1/4" thk Aluminum sheet  
**FABRICATION PROCESS:** Router Cut  
**EDGES:** Smooth  
**COLOR:** Custom, as noted  
**GRAPHIC BACKGROUND AND COPY PROCESS:** 3M custom inks print direct to Vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.  
**FASTENER:** Press-roll per 3M requirements.

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8. **SIGN PANEL BACKS - PAINT**  
**COLOR:** Custom, as noted  
**SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

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9. **ART PATTERN BACK PANEL**  
**COLOR:** Custom  
**GRAPHICS APPLICATION:** Applied Vinyl  
**SURFACE PROCESS:** Graphic Background and Copy Process: 3M custom ink print direct to Vinyl with 3M approved UV/Graffiti Vinyl Over-laminate.

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10. **DECORATIVE TOP BRACKET**  
**MATERIAL:** Aluminum sheet - 1" wide x 0.1620" thick  
**FABRICATION PROCESS:** Router Cut, Rolled, Brake-formed  
**EDGES:** Square, Smooth  
**COLOR:** Custom, as noted  
**SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
**FASTENER:** Weld rolled bracket to flat stock.  
**FOOTER:** Tamper resistant mechanically fastened to post and Panel Bracket.

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12. **BREAKAWAY FOOTER**  
**FOOTER:** The Transpo® break-away system, according to specifications per NH DOT.

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NOTES

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
5. All copy shall be proofread by client and legal requirements checked by legal department.

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**PORTSMOUTH, NH**  
Wayfinding and Signage System

---

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West Chester, PA 19380  
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**ENVIRONMENTS & EXPERIENCES**
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2. 4.5" SQUARE POST
   MATERIAL: Aluminum Square Tube 6061 - 4.50" x 4.50" .250" wall
   FABRICATION PROCESS: Extruded
   CORNERS: Square, Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: As per NHDOT breakaway specs.

4. CUSTOM FINIAL - ALL POSTS
   MATERIAL: Cast Aluminum
   CORNERS: Square, Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Tamper-resistant mechanically fastened to post.

11. DECORATIVE TOP BRACKET
   MATERIAL: Aluminum sheet - 1" wide x .1620" wall (6 gauge)
   FABRICATION PROCESS: Router Cut, Rolled, Brake-formed
   EDGES: Square, Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: West rolled bracket to flat stock. Tamper-resistant mechanically fastened to post and Panel Bracket.

15. PARKING SIGN CABINET
   MATERIAL: Aluminum sheet
   FABRICATION PROCESS: Extruded frame / Fabricated
   EDGES: Square, Smooth
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   INFO PANELS AND COPY PROCESS: 3M custom inks print direct to 3M30 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   FASTENER: Press-roll per 3M requirements.
   TOP PANEL GRAPHIC: Screen-printed (no reflective or opaque vinyl applications). CABINET FASTENERS: Hidden fasteners.
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, painted all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

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HANOVER GARAGE
PUBLIC PARKING

Clearance 7'-2"
Entrance
Exit Only

PORTSMOUTH, NH
Wayfinding and Signage System

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Suite 208
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ENVIRONMENTS & EXPERIENCES

NOTES

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2. Welds: All welds shall be ground smooth, painted all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
**NOTES**

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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

**PORTSMOUTH, NH**

Wayfinding and Signage System

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

**HANOVER GARAGE**

PUBLIC PARKING

Front View: PARK.4-7

West Elevation

SCALE: 1/16" = 1'-0"
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1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

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2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

ENVIRONMENTS & EXPERIENCES

PORTSMOUTH, NH
Wayfinding and Signage System

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SIGN STRUCTURE

Material: Aluminum
Process: Fabricated/Welded
H type construction
Surface Process: Paint as indicated
Color: As indicated in Color Chart
Internal Bracing: As reqd. by sign manufacturers
Structural engineer. Fabricator’s drawings are to be signed and sealed by a certified State of NH licensed Structural Engineer.

SIGN FACE

Sign Panel: Flexible Face
Clip Mounting System
Vinyl: 3M Scotchcal Translucent Graphic Film as specified
Diffuser: 3M Diffuser Film as specified
Substrate: 3M Panaflex 945 as specified
Color: As indicated in Color Chart

LED LIGHT FIXTURE

Lighting Process: Internal Face Lit
Manufacturer: Sylvania LED #05DC36W-865
Exterior or approved equal.
Color: White
Fasten: Mount to inside of Logo, provide rear baffle at rear with second row of LEDs.

LED HOUSING

Material: Aluminum
Process: Fabricated/Welded
H type construction
Surface Process: Paint as indicated
Color: As indicated in Color Chart
Internal Bracing: As reqd. by sign manufacturers
Structural engineer. Fabricator’s drawings are to be signed and sealed by a certified State of Florida licensed Structural Engineer.

HARDWARE

MOUNTING METHOD: Mechanically Fasten
MATERIAL: Stainless Steel
TYPE: Screw with threaded anchor insert.
SIZE: as determined by fabricator
MOUNTING SURFACE: Concrete or Brick VIF
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

These drawings are issued to indicate initial design and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. The office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to the office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

25. LETTERS
Size: 3/8" Thk.
MATERIAL: Aluminum
FABRICATION PROCESS: Router Cut Fabricated
Edges: Smooth
FINISH: Horizontal Brushed
SURFACE PROCESS: Satin Clearcoat
FASTENER: mechanically fastened to existing wall. Anchor suitable for wall material. Allowable shear capacity of anchor = 10 lbs. (min), 3 Anchors per anchor, Stud Mount Flush to wall surface.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

EVENMOMENTS & EXPERIENCES

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

SIGN PANEL
MATERIAL: 1/4" thk Aluminum
FABRICATION PROCESS: Square Cut
EDGES: Smooth
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces
FASTENER: Chemically Welded to Backer Panel
BACKER PANEL
MATERIAL: 1/8" thk Aluminum
FABRICATION PROCESS: Square Cut to match dimensions of sign panel
EDGES: Smooth
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces
FASTENER: mechanically fasten to existing wall. Anchor suitable for wall material. Allowable shear capacity of anchor = 50 lbs. (min). 8 Anchors, with 1 anchor placed at each corner. Stud Mount Welded or countersunk to sign panel.
COPY ARROW RULE BACKGROUND
PRODUCT: 3M 3930 Grade reflective sheeting per color chart
MATERIAL: vinyl
FABRICATION PROCESS: Digital Print direct to 3M50 UV clear
COLOR: custom, as noted
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

11. DECORATIVE TOP BRACKET
MATERIAL: Aluminum sheet - 1” wide x .1620” wall (6 gauge)
FABRICATION PROCESS: Router Cut, Rolled, Brake-formed
EDGES: Square, Smooth
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Weld rolled bracket to flat stock. Tamper-resistant mechanically fastened to post and Panel Bracket.

15. PARKING SIGN CABINET
MATERIAL: Aluminum sheet
FABRICATION PROCESS: Extruded frame / Fabricated
EDGES: Square, Smooth
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
INFO PANELS AND COPY PROCESS: DAKTRONICS LED MODULE REF DETAILS SECTION FOR SPECIFICATIONS
CABINET FASTENERS: Hidden fasteners.

30. LED SIGN CABINET
MATERIAL: Aluminum sheet
FABRICATION PROCESS: Extruded frame / Fabricated
EDGES: Square, Smooth
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
INFO PANELS AND COPY PROCESS: LED MODULE REF DETAILS SECTION FOR SPECIFICATIONS
CABINET FASTENERS: Hidden fasteners.

35. BREAKAWAY FOOTER
FOOTER: The Transpo® break-away system, according to specifications per NHDOT.

NOTES
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
   Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

RÉVISIONS
CLIENT / PROJET
SHEET TITLE
DATE
SUBCONSULTANT
PROJECT NO.
DRAWN BY:
SHEET NO.

SPECIFICATIONS SIGN TYPE: FUNCTION:
REVISIONS
CLIENT / PROJECT
SHEET TITLE
DATE
SUBCONSULTANT
PROJECT NO.
DRAWN BY:
SHEET NO.

PORTSMOUTH, NH
Wayfinding and Signage System
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

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CLIENT / PROJECT
PORTSMOUTH, NH
Wayfinding and Signage System

SUBCONSULTANT

SIGN TYPE: PARK.8
FUNCTION: LED Parking Sign

DATE
11/18/2013

DRAWN BY
LH, PR

SIGN TYPE: PARK.8
FUNCTION: LED Parking Sign

D.21
SPECIFICATIONS

**SIGN TYPE:** PED.1

**FUNCTION:** Pedestrian Directional

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2. **4.5" SQUARE POST**
   - **MATERIAL:** Aluminum Square Tube 6061 - 4.50" x 4.50" x .250" wall
   - **FABRICATION PROCESS:** Extruded
   - **CORNERS:** Square, Smooth
   - **COLOR:** custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Weld rolled bracket to flat stock. Tamper-resistant mechanically fastened to post and Panel Bracket in 3 locations.

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4. **CUSTOM FINAL - ALL POSTS**
   - **MATERIAL:** Cast Aluminum
   - **CORNERS:** Square, Smooth
   - **COLOR:** custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Tamper-resistant mechanically fastened to post.

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5. **PANEL BRACKETS**
   - **MATERIAL:** 1/4" thick Aluminum sheet, with 1/2" square Aluminum solid.
   - **FABRICATION PROCESS:** Router Cut, Saw Cut, Plug and stitch weld.
   - **EDGES:** Square, Smooth
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Tamper-resistant mechanically fastened to post.

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6. **DECORATIVE CORNER SPACER**
   - **MATERIAL:** Aluminum Angle - .250" wall
   - **FABRICATION PROCESS:** Extruded, Saw Cut
   - **EDGES:** Square, Smooth
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Tamper-resistant mechanically fastened to post.

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11. **DECORATIVE TOP BRACKET**
   - **MATERIAL:** Aluminum sheet - 1" wide x .1620" wall (9 gauge)
   - **FABRICATION PROCESS:** Router Cut, Rolled, Brake-formed

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**NOTES**

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
5. All copy shall be proofread by client and legal requirements checked prior to proceeding with fabrication. All copy shall be submitted by client and legal requirements checked to legal department.
6. Footnotes are not considered as design details and are not to be constructed. Contractual shall verify and be responsible for all allowances and conditions of the job. Contractor shall verify with the site conditions and dimensions. The office must be non-compliance, not to be responsible for any errors, omissions, or changes made on this drawing. Drawings shall be submitted to the office for approved prior to proceeding with fabrication. All copy shall be submitted by client and legal requirements checked by legal department.
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13. SLEEVE
   MATERIAL: Aluminum U-channel (.1620" wall)
   FABRICATION PROCESS: Extruded
   EDGES: Square, Smooth
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Tamper-resistant mechanically fastened to sign panel.

14. POLE STRAP ATTACHMENT
   PRODUCT: Band-It Band, or approved equal.
   MATERIAL: Type 201 SS
   SIZE: 3/4 inch
   FINISH: Stainless steel
   FASTENER: Ultra-Lok® Free End clamps
   NOTE: Sign Contractor to coordinate the removal or movement of interfering existing signs on poles, with the city.

18. MAP GRAPHIC PANEL
   PRODUCT NAME: iZone, 2526 Charter Oak Drive, Suite 100, Temple, Texas 76502 (888) 464-9663, www.izoneimaging.com, email: info@izoneimaging.com
   PRODUCT: Digital high pressure phenolic laminate (HPL)
   GRAPHIC APPROVAL PROCESS: Submit 12x12" sample section of typical project panel for image and color quality approval.
   WARRANTY PERIOD: Ten (10) years from product ship date.
   THICKNESS: 1/4 inch
   FINISH: Satin, including UV inhibiting top layer.
   FASTENER: Tamper-resistant mechanically fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
1. PANEL BRACKETS
MATERIAL: 1/4" thick Aluminum sheet, with 1/2" square Aluminum solid.
FABRICATION PROCESS: Extruded, Saw Cut, Router Cut, Saw Cut, Plug and stitch weld.
EDGES: Square, Smooth
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Tamper-resistant mechanically fastened to post.

2. DECORATIVE CORNER SPACE
MATERIAL: Aluminum Angle – .250" wall (6 gauge) fastened to post.
FABRICATION PROCESS: Brake-formed, Extruded
EDGES: Square, Smooth
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Welded and fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.

3. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

4. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

5. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

6. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

7. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

8. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

9. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

10. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

11. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

12. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

13. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

14. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

15. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

16. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

17. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

18. DECORATIVE TOP BRACKET
MATERIAL: 1/4" thick Aluminum sheet 1" wide x .1620" wall (6 gauge) fastened to center panel, at 6 locations. Map panel fits within frame area, minimal double-face tape across back to stop bowing of panel.
FABRICATION PROCESS: Extruded
THICKNESS: 1/4 inch
FINISH: Satin, including UV inhibiting top layer.

These drawings are meant for DESIGN INTENT ONLY and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked prior to proceeding with fabrication. Contractor shall be familiar with the site and be responsible for all dimensions and conditions of the job. Contractor shall verify the mounting conditions and provide a detail drawing for each mounting situation prior to fabrication. Fasteners must obtain approval from the Designer or Client for placement prior to fabrication.

Visitor Center
Strawberry Banke
Prescott Park
Post Office
Music Hall
Market Square
Hanover Garage
5 M IN U TE W A L K
.5 mi
.7 mi
.5 mi
.5 mi
.4 mi
.2 mi
.3 mi
.2 mi
.1 mi
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1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

Preferred Option: Replace entire concrete pad area/section.
Alternate: When sidewalk is not cracked or in disrepair, core drill within 1/4" tolerance.

Note: Owner will locate in field.
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3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

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Wayfinding and Signage System

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ENVIRONMENTS & EXPERIENCES

INFORMATION

Hanover Garage
Market Square
Music Hall
Post Office
Prescott Park
Seacoast Theatre
Strawberry Banke
Visitor Center

.2 mi
.3 mi
.2 mi
.4 mi
.5 mi
.5 mi
.7 mi
.5 mi

5 MINUTE WALK

PORTSMOUTH

8" 10 3/4" 1'-5 1/2"

Front View: KIOSK.2a-2c
SCALE: 1/2" = 1'-0"

Top View: KIOSK.2a-2b
SCALE: 1/2" = 1'-0"

Side View: KIOSK.2a-2b
SCALE: 1 1/2" = 1'-0"

13. SLEEVE
MATERIAL: Aluminum U-channel (.1620" wall)
FABRICATION PROCESS: Extruded
EDGES: Square, Smooth
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Tamper-resistant mechanically fastened to sign panel.
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

5. MATERIAL: Aluminum Square Tube 6061 - 3” x 3” x .250” wall

6. Measured:
   - 7’-0”
   - 11’-0”
   - Varies

7. Breakout® Square Coupler

8. SIGN PANEL BACKS - PAINT
   - COLOR: custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

21. SQ POST MOUNTING BASE
   - MATERIAL: Aluminum Square Tube 6061 - 3” x 3” x .250” wall
   - FABRICATION PROCESS: Extruded
   - CORNERS: Square, Smooth
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FOOTER: As per NHDOT Breakaway specs.
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1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

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ENVIRONMENTS & EXPERIENCES

8. SIGN PANEL BACKS - PAINT
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

22. 2.5" SQUARE POST
MATERIAL: Aluminum Square Tube 6061 - 3" x 3" x .250" wall
FABRICATION PROCESS: Extruded
CORNERS: Square, Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FOOTER: As per NHDOT breakaway specs.

23. Breakout® Square Coupler

24. BRACKET
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**SPECIFICATIONS**

**PORTSMOUTH, NH**
Wayfinding and Signage System

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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

**NOTES:**
- Messages shown are NOT actual messages. Provided for illustrative purposes only.
- Refer to message schedule for actual sign messages.
- Panel layouts for ALL sign locations shall be included in shop drawings for review by designer and client.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.
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Graphic Layouts: PARK.1
SCALE: 1 1/2" = 1'-0"
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**Sign Panel Layouts: PARK.3**

**NOTES:**
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- Refer to message schedule for actual sign messages.
- Panel layouts for all sign locations shall be included in shop drawings for review by designer and client.

---

**Specifications**

**Portsmouth, NH**

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**Environments & Experiences**

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**E.5**

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**Graphic Layouts: PARK.3**

**Scale: 3/4” = 1'-0”**

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**Reverse Layout**

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1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the designer or client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

---

**Notes:**

- Messages shown are NOT actual messages. Provided for illustrative purposes only.
- Refer to message schedule for actual sign messages.
- Panel layouts for all sign locations shall be included in shop drawings for review by designer and client.

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**Graphic Layouts: PARK.3**

**Notes:**

- Messages shown are NOT actual messages. Provided for illustrative purposes only.
- Refer to message schedule for actual sign messages.
- Panel layouts for all sign locations shall be included in shop drawings for review by designer and client.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
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**SPECIFICATIONS**

For sign types:
- VDIR.1
- VDIR.2
- VDIR.3

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**ENVIROMENTS & EXPERIENCES**

Sign Drawing
Description

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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

**NOTES:**

- Side View: Decorative Top Bracket
  - SCALE: 3" = 1" (Side View: Decorative Top Bracket)

- Side View: Decorative Bottom Bracket
  - SCALE: 3" = 1" (Side View: Decorative Bottom Bracket)

- Section View: Cast Cap
  - SCALE: 3" = 1" (Section View: Cast Cap)

- Side View: Panel Bracket
  - SCALE: 3" = 1" (Side View: Panel Bracket)
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F.3

Section View: Vehicular Directional
SCALE: 3” = 1”

Section View: Vehicular Directional
SCALE: 3” = 1”

Section View: Vehicular Directional
SCALE: 3” = 1”

NOTES:
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3. Hardware: All exposed hardware shall be tamper proof fasteners.
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ENVIRONMENTS & EXPERIENCES

For sign types:
VDIR.4
VDIR.5
VDIR.6

Sign Drawing
Description

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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

NOTES:
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
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ENVIRONMENTS & EXPERIENCES

For sign types:
VDIR.4
VDIR.5
VDIR.6

Sign Drawing
Description
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For sign types:
VDIR.4
VDIR.5
VDIR.6

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Sign Drawing

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

NOTES:

1.925’
8.5’
3’
15/16’
1’
1/2’
1/4’
1”
1’-10 1/2’
1’-2’
9 1/2”
6 1/4”
1 3/4”
2 3/4”
3 1/2”
4”
6”
4”
1”
1”
1”
1”
1”
1”
1”
1”
1”
1”
1”
1”

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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent faces.

NOTES:

For sign types:

PARK.2

SCALE: 3" = 1'

Section View: Parking Directional

SCALE: 3" = 1'

Section View: Parking Directional

SCALE: 3" = 1'

Section View: Parking Directional

SCALE: 3" = 1'

11/18/2013

LH, PR

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West Chester, PA 19380
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These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

For sign types: PARK.2

NOTES:
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the GOC for each mounting detail.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
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1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, painted all seams.
3. Hardware: All exposed hardware shall be tamper-proof fasteners.
4. All exposed edges painted to match adjacent faces.

Section View: Parking Lot ID
SCALE: 3" = 1"

Section View: Parking Lot ID
SCALE: 3" = 1"

Section View: 4 1/2" CAP
SCALE: 3" = 1"

For sign types: PARK.3
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4. All exposed edges painted to match adjacent face.

NOTE: This drawing is intended to depict the general direction of the ped. 1 sign. Exact dimensions shall be determined by the sign fabricator.

Highlights:
- Pedestrian Directional Signage
- Scale: 3" = 1"
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NOTES:
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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall betamper proof fasteners.
4. All exposed edges painted to match adjacent face.

For sign types:
PED.1
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---

**Sign Drawing Description**

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

**Notes:**

- Hanover Garage
- Market Square
- Music Hall
- Post Office
- Prescott Park
- Seacoast Theatre
- Strawbery Banke
- Visitor Center
- Waterfront

**SCALE:** 3" = 1"
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Specifications

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For sign types:

KIOSK.1
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NOTES:

1. Side View: Decorative Top Bracket
   SCALE: 3" = 1"

2. Side View: Decorative Bottom Bracket
   SCALE: 3" = 1"

3. Section View: Cast Cap
   SCALE: 3" = 1"

4. Side View: Panel Bracket
   SCALE: 3" = 1"
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For sign types:

- PARK.8
- VMS LED
- Arrow Panel
- Message Panel

Scale: 3" = 1"

Section View: PARK.8

Section View: Cast Cap

Section View: PARK.8
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ENVIROMENTS & EXPERIENCES

120 North Church Street
Suite 208
West Chester, PA 19380
T 484.266.0648
www.merjedesign.com

SPECIFICATIONS
PORTSMOUTH, NH
Wayfinding and Signage System

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SIGN DRAWING
DESCRIPTION

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3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

1. Side View: Decorative Top Bracket

SCALE: 3” = 1’

2. Side View: Decorative Bottom Bracket

SCALE: 5” = 1’
# Galaxy® Display AF-3200 Series

Galaxy® AF-3200 series displays provide instant control of the traffic/pedestrian flow in your facility. Small outdoor character displays minimize customer confusion with dynamic text, graphics, logos and animation visible up to 250 feet.

Customers will notice and use your convenient network of displays. The AF-3200 enhances revenue in parking garages, airports, convention centers, and many other locations by:

- Directing traffic flow and offering payment instructions at entrances and exit plazas
- Dimming vehicle circulation congestion
- Providing way finding in all parts of parking lots and any facility

- Displaying courtesy messages and advertising
- Diminishing vehicle circulation congestion
- Providing way finding in all parts of parking lots and any facility
- Displaying courtesy messages and advertising
- Diminishing vehicle circulation congestion
- Providing way finding in all parts of parking lots and any facility
- Displaying courtesy messages and advertising

## Features and Benefits

### Visibility

- 30° viewing angle and a range of character sizes from 2.1" to 14.4" supports ADA requirements and provides readability and flexible content
- Reduces glare and improves contrast and legibility with contrast enhancing polycarbonate face

### Communication

- RS-232, RS-422, or Ethernet (wired or fiber)
- Communication options allow for flexible installation

### Display Options

- Venus® 1500 controller easily integrates with existing software used by most system integrators

### Protection and Maintenance

- Vandal and tamper resistant cabinet
- An application of conformal coating to all electronic components grants protection from harsh environmental conditions and dust
- Easy access and trouble-free maintenance of all components; modules are mounted to the inner side of a swing down, front access door

### Model Specifications

#### Technical Specifications

- **Pixel pitch:** 8 mm (0.3") center-to-center; 1,600 pixels per sq ft
- **Color capability:** 1 color (amber or red)
- **LEDs per pixel:** 2-in-1
- **Estimated LED lifetime:** 100,000 + hours
- **Viewing angle:** 30° horizontal x 30° vertical
- **Service access:** Front access
- **Graphic capability:** Text, graphics, logos, basic animation, multiple font styles and sizes
- **Control software:** Venus® 1500 software or third-party integrators using Venus® 1500 SDK
- **Power:** 120 or 240 VAC single phase
- **Display driving:** 64 levels (automatic or manual control)
- **Communication options:** RS-232, RS-422 and Ethernet (wired or fiber)
- **Compliance information:** UL listed, NEMA 3R cabinet

#### Model Specifications Table

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cabinet (Width x Height x Depth)</th>
<th>Character Height</th>
<th>Weight (lbs)</th>
<th>Power (Watts)</th>
<th>AMPs @ 120V AC</th>
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<td>AF-3200-16x48-12-A, R, or RG</td>
<td>10&quot; x 6'1&quot; x 5&quot;</td>
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<td>3.3&quot;</td>
<td>121</td>
<td>0.54</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x96-24-A, R, or RG</td>
<td>10&quot; x 2'10&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>121</td>
<td>1.04</td>
<td></td>
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<tr>
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<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x144-24-A, R, or RG</td>
<td>10&quot; x 6'1&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x240-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x240-12-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x240-24-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x240-32-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x240-48-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x240-60-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x240-96-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
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</tr>
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<td>AF-3200-16x240-180-A, R, or RG</td>
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<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x240-240-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x240-360-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
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<td>AF-3200-16x240-480-A, R, or RG</td>
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</tr>
<tr>
<td>AF-3200-16x240-600-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x240-800-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
<tr>
<td>AF-3200-16x240-1000-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
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<td></td>
</tr>
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<tr>
<td>AF-3200-16x240-1600-A, R, or RG</td>
<td>10&quot; x 6'5&quot; x 5&quot;</td>
<td>3.3&quot;</td>
<td>242</td>
<td>1.17</td>
<td></td>
</tr>
</tbody>
</table>

## Notes

1. Nominal character height and number of lines that fit on each display are calculated using 7-pixel-high fonts. Many other font sizes are available. Contact Daktronics for details about other fonts.
2. All exposed edges painted to match adjacent face.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

---

**Specifications**

- **Pixel pitch:** 8 mm (0.3") center-to-center; 1,600 pixels per sq ft
- **Color capability:** 1 color (amber or red)
- **LEDs per pixel:** 2-in-1
- **Viewing angle:** 30° horizontal x 30° vertical
- **Service access:** Front access
- **Graphic capability:** Text, graphics, logos, basic animation, multiple font styles and sizes
- **Control software:** Venus® 1500 software or third-party integrators using Venus® 1500 SDK
- **Power:** 120 or 240 VAC single phase
- **Display driving:** 64 levels (automatic or manual control)
- **Communication options:** RS-232, RS-422 and Ethernet (wired or fiber)
- **Compliance information:** UL listed, NEMA 3R cabinet

---

**Notes**

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the architect before implementing any final design changes.
2. Wind: All walls and emblems must be rated against wind exposure, per NFPA 500M. Location shall be familiar with the site and conditions.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
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---

**SPECIFICATIONS**

**PORTSMOUTH, NH**

Wayfinding and Signage System

120 North Church Street
Suite 208
West Chester, PA 19380

T 484.266.0648
www.merjedesign.com

---

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**INSTALLATION INSTRUCTIONS**

**ANCHOR ASSEMBLY:**

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---

**BREAKAway FOOTER**
These drawings are meant for design purposes only and are not for construction. The FABRICATOR shall be familiar with all site conditions and shall be responsible for all underground utility checks.

The FABRICATOR shall be familiar with all basement/vault locations by obtaining plans from the local municipality Department of Public Works.

Where a basement/vault interferes with a proposed location, a basement/outlet is required. The sign shall be relocated to a location deemed appropriate by the municipalities Department of Public Works.

Where relocation is not an option the FABRICATOR will develop the appropriate mounting solution. The solution shall meet all engineering criteria as established by the standard footings. (i.e. windloads)

FINAL DESIGNS AND SHOP DRAWINGS SHALL BE SUPPLIED BY THE FABRICATOR FOR EACH OF THE BREAK-AWAY POLES IDENTIFIED AND A NEW HAMPSHIRE REGISTERED PROFESSIONAL ENGINEER IS REQUIRED TO SIGN AND SEAL THE SUBMITTAL OF SHOP DRAWINGS.

NOTE:
1) SOIL IS AVERAGE WITH MAXIMUM ALLOWABLE SOIL PRESSURE OF 3,000 POUNDS PER SQUARE FOOT. SOIL UNIT WEIGHT OF 125 PCF AND FRICTION ANGLE OF 30 DEGREES (ASSUMED).
2) CONCRETE STRENGTH AT 28 DAYS F'c=4,000 PSI. REINFORCEMENT SHALL BE ASTM 36 3/4" x 0.125 PSI
3) FOLLOW 2008 AHTD DESIGN STANDARDS FOR MATERIAL AND CONSTRUCTION INFORMATION FOR THE SIGN POST BASES AND FOUNDATIONS NOT OTHERWISE SPECIFIED IN THESE CONTRACT DRAWINGS
4) FOR SIGN POST SIZES REFER TO THE DESIGN INTENT DRAWING SHEETS

NOTES:
1. Faber & or fabricator shall verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Faber & or fabricator shall obtain approval from the municipalities Department of Public Works.
2. Welds: All welds shall be ground smooth, paint all seams.
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INFORMATION FOR THE SIGN POST BASES
FABRICATOR shall be familiar with all basement/vault locations by obtaining plans from the local municipality Department of Public Works. The FABRICATOR shall be familiar with all site conditions and shall be responsible for all underground utility checks. All copy shall be proofread by client and legal requirements checked by legal department.

F.17

11/18/2013
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**Bracket Selection Table**

<table>
<thead>
<tr>
<th>Bracket</th>
<th>Height 1</th>
<th>Height 2</th>
<th>Height 3</th>
</tr>
</thead>
<tbody>
<tr>
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<td>275mm</td>
<td>275mm</td>
</tr>
<tr>
<td>13&quot;</td>
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<tr>
<td>15&quot;</td>
<td>345mm</td>
<td>345mm</td>
<td>345mm</td>
</tr>
</tbody>
</table>

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**Installation Instructions**

**Anchor Assembly:**

1. Holes in the wall shall be drilled and tapped prior to installing the brackets. The holes shall be located at the points where the brackets will be installed. The holes shall be tapped to accept the anchor bolts.
2. Anchor bolts shall be inserted into the holes and the brackets shall be attached to the anchor bolts using the provided nuts and washers.
3. Torque the nuts to the specified torque value to ensure a secure connection.

**Bracket Assembly:**

1. Bolt the brackets to the wall using the specified bolts.
2. Ensure that the brackets are level and plumb before securing them to the wall.
3. Verify that the brackets are securely attached to the wall before proceeding with the installation.

**Notes:**

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**Transpo:**

20 Jones Street, New Rochelle, NY 10801

www.transpo.com

**Break-Safe Model B525**

Breakaway Support System for Sign Posts
5" & 6" Square Tube, Single Post

**Merje Design**

120 North Church Street, Suite 208
West Chester, PA 19380
T: 484.341.0648
w: merjedesign.com

**Special Specifications for Sign Types:**

VDIR.4
VDIR.5
VDIR.6

**Break Away Footer**

For sign types: VDIR.4
VDIR.5
VDIR.6
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ENVIROMENTS & EXPERIENCES
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3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

NOTES:

1. Design Wind load 300 PSF 90 MPH, 3 Sec Gust Wind, Exp C.
2. Design Wind load 300 PSF 90 MPH, 3 Sec Gust Wind, Exp C.
3. Design Wind load 300 PSF 90 MPH, 3 Sec Gust Wind, Exp C.

SPECIFICATIONS

PORTSMOUTH, NH
Wayfinding and Signage System
120 North Church Street
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T 484.266.0648
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Construction Details

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
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<tr>
<td>3'-0&quot; Minimum</td>
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<td>3'-0&quot; Minimum</td>
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<td>4'-0&quot; square</td>
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<td>7&quot; driveways</td>
</tr>
<tr>
<td>4'-0&quot; square</td>
</tr>
<tr>
<td>1'-1&quot;</td>
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</tbody>
</table>

Transpo® B525 Break-Safe Break Away Sign Support
Class B Concrete Footing
Reference State DOT Req. Standards

Section View: Foundation @ Concrete
SCALE: 3/4" = 1'-0"

Section View: Foundation @ Pavers
SCALE: 3/4" = 1'-0"

Section View: Foundation: Shallow Depth
SCALE: 3/4" = 1'-0"

Section View: Foundation: Extremely Shallow Depth
SCALE: 3/4" = 1'-0"
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on the drawing. Any changes or additions must be submitted in WRITEN form for approval prior to proceeding with construction. All copy shall be proofread by client and legal requirements checked by legal department.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication.

All copy shall be proofread by client and legal requirements checked by legal department.

**SPECIFICATIONS**

PORTSMOUTH, NH

Wayfinding and Signage System

120 North Church Street
Suite 208
West Chester, PA 19380
T 484.266.0648
www.merjedesign.com

**NOTES:**

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2. Welds: All welds shall be ground smooth, paint all seams.

3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

**FOR SIGN TYPES:**

KIOSK.1

PED.1

**ENVIRONMENTS & EXPERIENCES**

**Section: MOUNTING – KIOSK.1**

SCALE: NTS

4.5" post

Bolted through base and pole

5" Smooth Concrete Pad

1/2" Aluminum Plate

90.00'

Trim kiosk legs flush to pavement

3'-0" min. 5"

90.00'

Sign Centered on Footing

1/2" Dia. A36 Galvanized Threaded Rod w/end, leveling & Jam Nuts w/33" Min. Embedment

#5 Bars @ 12" O.C.E.W. (Max) Top & Bottom of Footing 3" Clear Cover Typ.

**Section: MOUNTING – PED.1**

SCALE: NTS

4.5" post

Bolted through base and pole

5" Smooth Concrete Pad

1/2" Aluminum Plate

90.00'

Trim kiosk legs flush to pavement

3'-0" min. 5"

90.00'

Sign Centered on Footing

1/2" Dia. A36 Galvanized Threaded Rod w/end, leveling & Jam Nuts w/33" Min. Embedment

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PART 1 – GENERAL

1.01 WORK RELATED
A Labor, materials, equipment and services necessary for the fabrication, delivery and installation of signage as described in the detail design intent drawings.
B Refer to the message schedule for a complete list of sign types and quantities.
C Signs listed on message schedule should match those indicated on sign location plans. Contractor to notify owner of any discrepancies in sign quantities by doing take-offs before manufacturing signs.
D For all signs, all fasteners, support structures required for installation.

1.02 RELATED WORK
A General carpentry and painting requirements: all work to be done in a professional manner and to the highest trade standards.
B Use OSHA safety requirements if necessary for pedestrian and/or vehicular safety.

1.03 REGULATORY REQUIREMENTS
Observe applicable codes, sign ordinances and ADA guidelines for handicap and fire/life safety signing. All exterior signs located in the public right-of-way, including local city, county and state roadways, shall comply with the 2009 MUTCD standards, including Revisions.

1.04 REFERENCE STANDARDS
Refer to current editions of the following:
B Federal ADAAG, 2010 standards.
C ASTM B 209–Aluminum sheet and plate.
D ASTM B 221–Aluminum-alloy extruded bars, rods, wire, shapes and tubes.
E ASTM D 822–Light and water exposure apparatus (carbon-arc type) for testing paint, varnish, lacquer and related products.
F ASTM E 84–Surface burning characteristics of building materials.
G ASTM C 143-74–Concrete slump test.
H FS L-P-391–Plastic sheet, rods and tubing, rigid and cast materials.
I FS L-P-387–Plastic sheet, laminated, thermosetting.
J ASTM C 880–Stone, granite flexural strength testing.
K PEL Porcelain Enamel Institute
L UL 943–Fluorescent lamp ballasts.

1.05 SUBMITTALS
A Bid submittal requirements

1 All of the inclusive bid submittals must be provided to be considered a qualified bid.
2 All proprietary contractual paperwork provided by the client filled out accurately, including all requested bonding and insurance information.
3 Submit completed spreadsheet (form and/or file provided) with all requested line item prices. Ensure that all row and column totals add up properly. Use the provided format, do NOT use a different spreadsheet format.
4 Submit a projected project schedule. Schedule will show major milestones such as sample submittals, fabrication, and installation. The payment schedule will be tied to reaching these milestones. Schedule will be updated regularly throughout the project.

B Requirements
1 Schedule shop drawings, product data and sample submittals for delivery at the same time.
2 The owner may hold shop drawings, product data and samples in cases where a partial submittal cannot be reviewed until associated items have been received.
3 Allocate not less than four weeks, plus mailing time, for processing by the owner.

C Schedule
1 Submit Gantt-style schedule with all pertinent dates and milestones for the project.
2 Include all lead times for materials, processes and third party products or components.
3 Include submittal delivery dates, fabrication and installation dates.
4 Allow several weeks in schedule for review and revision time for all submittals.
5 Revise schedule regularly as project details dictate.
6 Contractor shall pay $1,000 a day for each day past the agreed upon project deadline, unless otherwise stated in the owner-contractor agreement.

D Shop Drawings
NOTE: All final shop drawings must have an engineering stamp from a state licensed engineer before being approved for fabrication.

1 Submit three (3) sets of shop drawings as outlined below.
2 Include plans, elevations, sections and large scale details of sign wording and lettering layout. Show anchorages and accessory items. Provide mounting accessories.
3 Show fabrication and installation details, including all sign components such as extrusions, brackets, bracing, hardware, internal framing, fasteners, etc.
4 Provide engineering data to confirm viability of signs and supports, including structural stability of all signs, fasteners and foundation design.
5 Structural details must be reviewed and stamped by a state certified structural engineer, ensuring structural integrity and safety.

E Sub Contractor Qualifications Information
1 The total percentage of subcontracted work on this project is not to exceed 49% including installation.
2 Fabricator must submit credentials for any subcontractor selected to execute any portion of this contract. This must be submitted with proposal or bid. Demonstrate sub qualifications for doing specified work.

F Samples
1 Submit three (3) sets of each sample required.
2 Owner reserves the right to reject any samples that do not satisfy the construction, finish or color requirements. Submit additional samples as required to obtain final approval.
3 Samples shall be labeled on the back, designating item number, name of manufacturer, name of project.
4 The following sample submittals are required for this project:
   a) 3 sets of all color samples, including paint and vinyl samples on thin aluminum plates (approx. 3” x 6”).
   b) 2 sets of material samples.
   c) Sample fasteners, hardware and mounting hardware sufficient to obtain clear ideas of how signs are fabricated, made changeable and installed.
   d) One (1) full size PARK.1 sign panel including mounting hardware, NOT to be job used. To be installed in field for sample review.
   e) One (1) full size letter PARK.6 for field contrast verification.

G Maintenance Data
1 Submit two (2) copies of each manufacturer’s recommendations for maintenance of all items.
2 The instructions shall cover cleaning, repair, repainting and maintenance of signs, including data on cleaning solutions or methods of application which should be avoided.

H 484.266.0648

1.06 DELIVERY OF ATTIC STOCK (IF ANY)
A For any attic stock ordered, package separately or in like groups labeled as to contents. Include installation hardware, adhesive and installation instructions; include a reasonable array of alternative adhesives, fasteners or materials to be able to respond effectively to varying field conditions.

1.07 PROTECTION
A Store and protect assemblies from injury at the shop, in transit to the job and until erected in place, completed, inspected and approved.

NOTES:

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PART 1 – GENERAL

DATE 12/5/13

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PART 1 – GENERAL
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**1.08 INSPECTION**

- **A** Materials, colors, and fabricated or partially fabricated items shall be available for inspection at the factory or elsewhere, by the owner or designer during the process of manufacture and until final delivery, installation and acceptance, to determine whether or not there is compliance with the requirements of these specifications.

- **B** Approval prior to the time of final acceptance shall not preclude rejection of delivered items which do not satisfy these specifications.

**1.09 REORDERING**

All items specified herein shall be available to the owner in additional quantities for a period of 10 years after completion of all work called for in this specification.

**1.10 WARRANTY**

All warranties on fabricator’s standard contract forms must be modified to match warranty criteria mentioned herewith. Any changes in warranty length or criteria must be negotiated prior to contract signing. Any discrepancies from fabricator’s contract are superseded by this performance specification.

**ALL PAINT FINISH WARRANTIES MUST BE ACCOMPANIED BY SIGNED WARRANTY AGREEMENTS WITH THE PAINT MANUFACTURER AND FINISHER.**

**1.11 ALTERNATE FABRICATION**

- **A** The drawings show design intent only. The fabricator is responsible for fabrication and overall level of quality. Any changes in design, materials, fabrication techniques or details necessary to the successful completion of this project should be communicated to the designer and the owner in a timely fashion.

- **B** The designer recognizes that manufacturers may have shop fabrication techniques that differ from details shown. Suggested changes in fabrication that do not alter the design intent nor reduce the quality will be considered by the designer provided they are submitted in sketch form as soon as possible prior to shop drawing preparation.

- **C** Any value engineering changes during fabrication shall be split evenly between the contractor and owner.

---

**NOTES:**

- **1.** Fabricator to verify the mounting conditions and provide a detail drawing for each additional quantities for a period of 10 years after completion of all work called for in this specification.

- **2.** Welds: All welds shall be ground smooth, paint all seams.

- **3.** Hardware: All exposed hardware shall be tamper proof fasteners.

- **4.** All exposed edges painted to match adjacent face.
PART 2 – PRODUCTS

2.01 QUALITY ASSURANCE

A Materials used for this project shall be new and not reconditioned or re-purposed.
B Fabricator shall be familiar with the site and all conditions related to the fabrication and installation of the project.
C Use only personnel thoroughly skilled and experienced with the products and methods for fabrication and installation of signage.
D The owner shall reserve the right to reject any shop drawings, samples or other submittals, as well as any finished product or installation, than cannot meet the standard of quality established. Any such decision will be considered final and not subject to recourse.
E The intent of the contract documents is to provide everything necessary for a complete contract. In the event of conflict or omission, the fabricator shall consult the owner for resolution.
F Materials and hardware not specified, but necessary to the complete functioning of the sign, shall conform to the quality level established.

2.02 PREFERRED MATERIAL SUPPLIERS

Vendors and products listed below are specified for this product. These products have either been tested on prior projects and have delivered proven results, or have properties unique to this project. Any suggested substitutions must have documentation demonstrating the same level of quality and warranty PRIOR to bidding. Bids are subject to disqualification if unauthorized substitutions are used.

A Acrylic Polyurethane paint
Matthews Paint (a division of PPG), Delaware, OH 43015
Phone: 800-323-6593
www.matthewspaint.com

B All vinyl and vinyl coatings
3M Commercial Graphics Division, St. Paul, MN 55144
Phone: 888-364-3577
www.solutions.3m.com

C Acrylic sheeting
ACRYLITE® Sheet
Evonik Cyro LLC, Parsippany, NJ 07054
Phone: 855-202-7467
www.acrylite-shop.com

D Map and Interpretive panels
Digital High Pressure Laminate (dHPL)
izone, Temple, TX 76502
Phone: 888-464-9663
www.izoneimaging.com or
Fossil Industries, Deer Park, NY 11729
Phone: 631-254-9200
www.fossilgraphics.com

2.03 DESIGN REQUIREMENTS

2.03.1 Typeface specifications

1. Typeface (or fonts) are purchased from respective font websites, licensed to the designer, and will not be shared with the fabricator. Fabricators will be responsible for purchasing matching licensed fonts for project usage. See the Graphics Standards section of the design intent drawings for the specific fonts utilized within the project.

2. Size: all letter heights specified are based on the cap height of the capital letter.

3. Alignment: When setting type or installing cut letters, ensure that letters are perfectly straight and even, with no characters set crooked or “popping up.”

4. Spacing
   a) See the Graphics Standards section of the design intent drawings for the samples of letterspacing programs. The proper letter and word spacing is of extreme importance to the desired look of the signs.
   b) Contractor is responsible for visual corrections to the typesetting that might be necessary. Any spaces in spacing or copyfitting should be brought to the attention of the designer for solution.

2.03.2 Visual Justification

1. Display type may align mechanically but not optically. When flushing copy message left, a visual adjustment shall be made compensating for arrows and those letter forms that must be extended into the left hand margin to appear flush. For example, S and O must extend beyond the left margin slightly.

2. Arrow and symbol specifications

1. Symbols, symbols and pictographs shall conform to the symbol signs issued by the Department of Transportation and the American Institute of Graphic Arts. To obtain more information and digitized Macintosh (EPS) compatible AIGA symbols, contact: Society for Environmental Graphic Design (SEGD), 1000 Vermont Ave., NW Suite 400, Washington, DC 20005, Phone: 202-638-5555.

2. Arrows: Arrows on all signs shall use the arrow files which will be provided by the owner to the successful bidder.
   a) Arrow size will be dimensioned by height as shown in the design intent drawings.

3. Artwork

1. The contractor shall be provided electronic Adobe InDesign and Illustrator files with the project artwork and templates. The final output quality of the artwork for finished signage shall be the responsibility of the contractor. The owner's representative reserves the right to reject artwork if it fails to meet the standard of quality established.

2.04 MATERIALS

A Aluminum extrusions: For mounting plates and structural frames shall conform to ASTM B-221, alloy 6063-T6. Shapes, sizes and weights of members shall be as required for structural stability. All connections of aluminum members shall be heli-arced welded, continuous fillets, ground smooth on all exposed surfaces, unless specifically detailed otherwise. Aluminum finishes shall be hereinafter specified.

B Aluminum sheet and plate: Type 5052-H-32 alloy aluminum, thickness as indicated. For painted finish, faces shall be etched to give an even finish and remove oxidation, then conversion coated to improve paint adhesion and inhibit corrosion. Surface shall be belt-sanded for a smooth finish, edges filed and ground then immersed in hot alkaline cleaner to remove contamination. For anodized finish, prepare for finish AA-M31-C21-A31. Aluminum should have consistency of color and finish throughout the project.

C Stainless Steel sheet: Chromium stainless steel sheet. Use type 304 or type 316 austenitic stainless steel with 16% chromium and 10% nickel.

D Hangers, brackets and accessories: Shall be of the type and size indicated. Where such items are not specifically called for, provide hangers, brackets and accessories as required for the proper execution of the work, as approved by the owner.

E Paint for aluminum: All coating to protect aluminum by uniformly penetrating, filling, and sealing surface pores. Coating should provide an invisible barrier to weathering, airborne contaminants, graffiti, industrial air pollution, mildew, and salt air. Coating should not yellow, peel or flake. Coating should be guaranteed in conformance with Worwag Section 1.10 - E. Sign panels shall be pre-drilled in proper locations before any priming, painting or coating processes. Aluminum should have consistency of color and finish throughout the project.

1 Matthews Acrylic Polyurethane (PPG)
MAP® is a superior two-component catalyzed coating system that provides a high degree of ultraviolet, chemical and weather protection for signage and architectural metals. When used as a complete system, primer through topcoat, MAP provides a high performance finish that lasts for years.

a) Pretreatment: Mechanically clean and chemically pretreat fabricated items in accordance with coating manufacturer’s requirements and AAMA requirements for finish indicated.
   1. Pretreatment: One coat 74-734 and 74-735 metal pre-treat at .25 mils DFT or one coat 74-739 spray bond at .15 to .25 mils DFT.
   2. Apply primer and finish coats in accordance with coating manufacturer’s requirements for finish indicated.
   3. Finish coat: One coat Matthews Acrylic Polyurethane 2 mils DFT. As a final step, spray one coat of satin clear Matthews Acrylic Polyurethane 2 mils DFT for a protective top coat.
TIGER Drylac® Series 38 Powdercoating

The TIGER Drylac SHELDED System is a two-coat process combining optimum corrosion protection with highest weatherability. The basis for the excellent corrosion resistance is either TIGER Drylac Zinc Rich Primer 69/90500, TIGER Drylac Dryprotective Primer 69/70000, or TIGER Drylac 69/73841 Out-gassing Forgiving Primer. This two coat system warrants an optimum non-porous finish as well as excellent UV protection through the use of high quality polyester powder coatings.

All specified project applications here-in MUST be the TIGER Drylac two-coat process. The TIGER Drylac Series 38 Super Durable Polyester single powder coating is NOT acceptable, unless specifically identified within the sign drawing(s).

a) Pretreatment: Mechanically clean and chemically pretreat fabricated items in accordance with coating manufacturer’s requirements and AAMA 2604–05 requirements for finish indicated.

b) Powdercoating shall be applied by a TIGER-approved applicator ONLY. Apply primer and finish coats in accordance with coating manufacturer’s requirements for finish indicated.

1) Theoretical Coverage: at 1.5 specific gravity and 2.5 mils (60 um) film thickness: 30.2 ft²/lb (9.8 mg/kg).

2) Refer also to the latest edition of “Theoretic Powder Coating Coverage Chart”. Version 00-1001 (Imperial).

F Pressure Sensitive Vinyl Legends

1 Use 3M High Intensity Prismatic Reflective Sheeting Series 3930, with 3M ElectroCut Film 1170 overlaminate.

a) Custom color background and characters printed with 3M inks directly.

b) Series 3930 sheeting incorporates a pressure sensitive reflective foil and should be applied to sign substrate at temperature of 65°F/18°C or higher by any of the following methods:

1) Mechanical squeeze roll applicator – refer to 3M Information Folder (IP) 1.4 for more details.

2) Hand squeeze roll applicator – refer to 3M IP 1.6 for more details.

c) Splices: Series 3930 sheeting must be butt spliced for traffic sign use, substrates found to be most reliable and durable are properly prepared aluminum sheets and extrusions. Plastic substrates are NOT acceptable.

d) High intensity prismatic sheeting may be processed into traffic signs, signs by any of the imaging methods described below.

1) Screen Processing: Series 3930 sheeting may be screen processed into traffic signs before or after mounting on a sign substrate, using 3M Process Colors Series 8800 or Series 880N. Refer to 3M IP 1.8 for more details.

2) Thermal Transfer Printing: Series 3930 sheeting may be imaged with 3M Thermal Transfer Ribbon Series TTR2300 in conjunction with the Matan SprintG3 or Matan Spot4 thermal transfer printers. Additionally, series 3933 sheeting may be imaged by the Durst RHO 161 TS printer, by Shorine Industries: (604) 513-1887. All applications utilizing the above printers must be covered with 3M ElectroCut Film 1170 Clear UV/ Anti-Graffiti overlaminate.

3) 3M ElectroCut Film Series 1170 may be used to provide copy for traffic control signs on high intensity prismatic sheeting. Both materials then must be covered with 3M ElectroCut Film 1170 Clear UV/Anti-Graffiti overlaminate. Refer to Product Bulletin 1170 for fabrication procedures.

4) Vinyl Graphic Films: Scotchcal Vinyl Series 7720 and Series 7725 may be used to provide copy for traffic control signs on high intensity prismatic sheeting. Both materials then must be covered with 3M ElectroCut Film 1170 Clear UV/Anti-Graffiti overlaminate. Refer to Scotchcal product literature for more information.

f) All of the above methods utilizing series 3930 reflective sheeting must be warranted for a period of eight (8) years and shall not excessively fade, discolor, crack, craze, peel, blister or lose reflectivity such that the signs become visually unsuitable for their intended purpose.

2 Use 3M Scotchtite brand graphic film. Material shall consist of a tough, flexible, and pigmented vinyl film and shall be processed with compatible screen printing inks and clear coatings as recommended by the film manufacturer. The film shall be precut with pressure-sensitive adhesive. The adhesive shall be protected by a treated paper liner which shall be easily removable without soaking in water or other solvents. The sheeting shall be guaranteed against delamination for a period of 5 years.

3 Use 3M Scotchtite brand reflective graphic film. Material shall consist of transparent plastic having a smooth, flat outer surface embedded with spherical lens elements. The material shall be capable of being processed with compatible screen printing inks and clear coatings as recommended by the film manufacturer. The film shall be precoted with pressure-sensitive adhesive. The adhesive shall be protected by a treated paper liner which shall be easily removable without soaking in water or other solvents. The sheeting shall be guaranteed against delamination for a period of 5 years.

G Concrete

1 All concrete footers are to be poured from thoroughly mixed and agitated concrete in order to prevent unreasonable voids in the finished casting.

2 Concrete must meet specification “PSI testing” for strength: 3500 PSI minimum.

3 Concrete to meet specified “dump test” before pouring footing.

4 All footings to extend past the frost line.

5 Any footers or posts for signs will be placed in wet concrete and allowed to fully cure in place before any signage is attached or mounted to it in any way.

6 All exposed surfaces of concrete shall receive a finish to match existing, adjacent surfaces.

7 Do NOT chamfer corners or edges of concrete, unless specifically identified, or called out in the sign drawings.

9 Smooth-Formed Finished Concrete: Form-facing panels that will provide continuous, true, and smooth concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.

a) Plywood, metal, or other approved panel materials.

b) Exterior-grade plywood panels, suitable for concrete forms, complying with DGC PS 1.

H Breakaway post: Manufacturer shall provide breakaway posts for the sign types and locations indicated in the documentation drawings. Final designs and shop drawings shall be supplied by the fabricator for each of the poles identified. A Professional Engineer shall sign and seal the submittal of shop drawings. The breakaway post shall meet or exceed the following criteria:

1 Most Current policy on Geometric Design of Highway and Streets.


3 Most Current AASHTO Roadside Design Guide.

I Adhesive tape: Use closed-cell foam type tape with adhesive surfaces on both faces. Thicknesses and widths of tapes shall be as required to safely secure signs to various wall finishes, but in no case shall be less than 1/16 inch thick and 1/2 inch wide. Adhesive tape shall be equal to Norton Sealant Tape No. 1001 Series.

J Liquid adhesive: Use Silicone Silastic 732 RTV adhesive sealant as manufactured by Dow Corning.

2.05 FABRICATION

A Report any discrepancies between drawings, specifications and owner requirements, and request direction from owner before proceeding.

B Verify measurements in field as required for work fabricated to fit job conditions. Before starting work, examine adjoining work on which work of this section is in any way dependent for perfect workmanship and fit.
PART 2 – PRODUCTS continued

C Make work in ample time not to delay job progress and deliver to job at such time as required for proper coordination. Fabricate work true to line and detail for design. Sharp, defined profiles. Finish surfaces smooth unless otherwise specified.

D Do cutting, punching, drilling and tapping required for attachment or other work coming in contact with signage work where indicated.

E Changeability: Fabricate signs in such a manner that each of the major mounting components may be removed and replaced with similar components by maintenance personnel, but not by unauthorized personnel.

F Construction: Fabricate all joints, corners, miters, etc., with work accurately mached, filed and fitted, rigidly framed together at joints and contact points. Carefully match all work to provide a perfect continuity of lines and design, with metal in contact having hairline joints. Make joints of such character and assembly to be strong and as rigid as adjoining sections. Make exposed joints where joint is least conspicuous. Corners shall be square as indicated. All edges shall be finished and free of saw marks. Allow for expansion and contraction of materials from temperature changes, especially when two materials with different coefficients of expansion are used together.

Detail signs to minimize deflection from snow, ice, water and their own weight.

G Engineering: The system shall be engineered to eliminate buckling of any members, failure at any points, distortions or other damage. The system shall be engineered to be rigid with minimum deflection and rotation under stress and shall be able to withstand movement, shear and torsional loads. Exposed areas of signs shall not be cut. Signs shall be designed as structurally self-supporting units. The suspension systems and substructure shall be designed by the sign manufacturer to perform in accordance with the contract documents.

H Connections and accessories: Weights of connections and accessories shall be adequate to sustain and withstand stresses and strains to which they will be normally subjected.

I Sign panels - General

1. Surface finish: Provide surface finishes that are free from lines, motting, ridges, variations in color, peeling, orange peel, bubbles, pinholes, motting, crazing, grit and coarse particles. This applies to all methods of fabrication and finishing. Use clear coatings for durability, surface protection, appearance and maintenance.

2. Material: Sign panel material is stated in the schedules under “Notes” and/or “Specifications” and/or on drawings.

3. Opacity: All signs shall have opaque background and opaque graphics, unless specifically noted otherwise.

J Anchors and fastenings

1. Mechanical: a) Provide anchors and fasteners required to secure work in place.

2. Surface finish: Do NOT expose fastenings on surface of sign panels unless specifically noted otherwise. Do NOT deform, distort or discolor sign face surfaces by attachment of concave fastenings.

3. Corrosion resistance: all fastenings shall be non-corrosive and resistant to oxidation or other corrosive action, of the same composition completely through their cross sections, particularly when used below grade. Use highest quality stainless steel hardware and fasteners.

4. Anchors, inserts or fasteners shall be compatible with sign materials, shall not result in galvanic action or chemical interaction of adhesives and shall have demonstrable and sufficient strength for intended use.

5. Steel anchors and fasteners for exterior use shall be galvanized in accordance with ASTM A153.

6. Stability: Fabricate and install signs with fastenings to withstand all actions imposed by use; 90 mph wind perpendicular to surfaces, water, ice, snow loads and similar forces.

7. Anchor bolts in concrete shall be cast in place. Manufacturer shall furnish instructions for the setting of anchors and bearing plates. Manufacturer shall ascertain that the items are properly set during the process of the work.

8. Color: Secure work with fastenings of same color and which the components they secure where they are exposed to view, unless noted otherwise.

9. Security: All exposed fasteners must be vandal resistant and have vandal-proof “spinner” type slots to be removed only with the special driver head.

K Messages

The fabricator is responsible for the message layout of all directional messages panels. Fabricator must produce scale drawings of message layouts for review prior to fabrication. Layout spacing and letter heights to be based on typical layout guideline drawing pages.

1. Layout: Typical sign panel layouts are illustrated in the design intent drawings. All messages including braille shall be flush left, unless noted otherwise. Correct line breaks are indicated in the “message” column of the schedule and should be followed exactly. Braille line breaks shall match those of the raised copy.

Any problems in the message layout shall be brought to the attention of the designer for his or her solution.

2. Fabrication: Execute all signs such that letter forms are true and clean. Letter forms with resolved corners, edge built-up, or bleeding, sawtoothing, etc., will not be accepted. Execute all silk screening from photo- screens prepared from typesetter’s reproduction of the copy specified. All with above is included in this contract. Hand cut screens will not be acceptable.

3. Die-cut messages: Die-cut, pre-spaced, pre-aligned messages numbers, words, phrases, and arrows) from 3.0 ML flexible film coated with continuous adhesive pressure sensitive backing to meet characteristics specified for surface-applied messages. Execute die-cutting in such a manner that all edges and corners of finished letter forms are true and clean. Letter forms with round or rounded corners, nicked, cut or ragged edges, etc., will not be acceptable.

4. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

5. Single- or double-faces: All signs that are double-faced will be noted as such in the drawings and message schedule. For double-faced signs, the message will be indicated as “Side A” and “Side B” or “Side C” and Side D.

L Surface-applied messages

1. Reflectivity and specular gloss

a) Non-reflectors: 20 degree specular in accordance with ASTM D599.

b) Non-reflectors: 60 degree specular in accordance with ASTMD 523.

2. Thickness: as indicated in specifications herein.

3. Color and color fastness

a) Exposed surfaces and finishes shall show no discernible color change or chalking when exposed for 1,000 hours in a Xenon Arc Weatherometer Model HCD-1/X, or equivalent, when tested in accordance with ASTM D882.

4. Inter letter spacing: Follow examples in drawings: Show sample inter-letter and inter-word spacing in sample submissions as specified.

5. Layout: Positions for all messages, symbols, arrows, lines, etc., for all signs are clearly indicated on the drawings and shall be complied with.

6. Artwork: Contractor shall be responsible for all final reproduction artwork for all messages, symbols, arrows, lines, and location plan and/or floor plan drawings.

7. Fabrication

a) Screened messages: Execute all silk screening in such a manner that all edges and corners of finished letter forms are true and clean. Letter forms, color areas or lines with resolved corners, edge built-up, or bleeding, sawtoothing, etc., will not be accepted. Execute all screening from photo-screens prepared from typesetter’s reproduction of the copy specified. All above is included in this contract. Hand cut screens will not be acceptable.

b) Die-cut messages: Die-cut, pre-spaced, pre-aligned messages (numbers, words, phrases, and arrows) from 3.0 ML flexible film coated with continuous adhesive pressure sensitive backing to meet characteristics specified for surface-applied messages. Execute die-cutting in such a manner that all edges and corners of finished letter forms are true and clean. Letter forms with rounded or rounded corners, nicked, cut or ragged edges, etc., will not be acceptable.

9. Fabrication: Execute all signs such that letter forms are true and clean. Letter forms with resolved corners, edge built-up, or bleeding, sawtoothing, etc., will not be accepted. Execute all silk screening from photo- screens prepared from typesetter’s reproduction of the copy specified. All with above is included in this contract. Hand cut screens will not be acceptable.

c) Corrosion resistance: all fastenings shall be non-corrosive and resistant to oxidation or other corrosive action, of the same composition completely through their cross sections, particularly when used below grade. Use highest quality stainless steel hardware and fasteners.

d) Anchors, inserts or fasteners shall be compatible with sign materials, shall not result in galvanic action or chemical interaction of adhesives and shall have demonstrable and sufficient strength for intended use.

e) Steel anchors and fasteners for exterior use shall be galvanized in accordance with ASTM A153.

f) Stability: Fabricate and install signs with fastenings to withstand all actions imposed by use; 90 mph wind perpendicular to surfaces, water, ice, snow loads and similar forces.

4. Inter letter spacing: Follow examples in drawings: Show sample inter-letter and inter-word spacing in sample submissions as specified.

5. Layout: Positions for all messages, symbols, arrows, lines, etc., for all signs are clearly indicated on the drawings and shall be complied with.

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PART 3 – EXECUTION

3.01 INSPECTION
A Examine the substrates and conditions under which the signs are to be installed and notify the owner in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 INSTALLATION
A Install sign units and components with concealed fasteners, unless otherwise shown. Refer to detail drawings for general method. Verify each surface in field to determine specific, appropriate hardware.

Drawings in this package may not indicate any below-ground or in-wall structural tie-ins or connections that may be necessary to assure stable and secure installation of signs. Sign fabricator is responsible for determining where such connections are necessary and for coordinating with related trades to make them.

B Locations: Refer to drawings for approximate locations. Any discrepancies or apparent deviations from drawing locations because of different site conditions shall be brought to the attention of the owner for solution. The owner must be present for field placement of the sign.

It shall be the responsibility of the Contractor to determine location of underground structures and utilities by the use of test pit excavation prior to excavation operations. Test pits shall be the size, depth and location as approved by the Engineer. Each pit shall be tamp-back-filled. Test pit excavation will be measured on the basis of the volume of material actually removed from within the limits specified. Tamped backfill will not be measured but shall be included in the price bid for test pit excavation.

Price provided shall include all excavation, tamp backfill, labor, tools, equipment and incidentals necessary to complete the installation of each sign.

C For ground-mounted signs, provide whatever replacement concrete, pavers, bricks, etc., are necessary to match adjacent surfaces exactly. Seams should be parallel or perpendicular to sign face and be symmetrical around post(s).

D Note that this area experiences heavy public use. Strong environmental conditions such as weather and vandalism may be routine problems. Signs must be securely mounted. Contractor is responsible for suggesting alternative fabrication or installation methods if required to prevent theft or vandalism.

E Install signs to be level, plumb and at the proper height. Cooperate with other trades for installation of sign units.

F Clean and polish, remove excess adhesive.

G Fixture installation
1 Install lighting fixtures with seals and gaskets. Conceal all wiring in or within the construction.

2 Lamp installation
a) Do not install lamps for permanent use until operating voltage is verified and established.
   b) Install lamps in accordance with lamp and fixture manufacturer’s instructions.

3 Ballast installation
a) Install ballasts at factory unless specifically indicated otherwise. Mount on rubber grommets or sound isolating details to reduce noise transmission.

3.03 TREE TRIMMING AND PROTECTION
A Include the protection and trimming of trees that interfere with, or are affected by, the execution of the Work, whether temporary or new construction.

1 Quality Assurance
   a) Tree Service Qualifications: An experienced tree service firm that has successfully completed tree protection and trimming work similar to that required for this Project and that will assign an experienced, qualified arborist to Project site on a full-time basis during execution of the Work.
   b) Arborist Qualifications: An arborist certified by the International Society of Arboriculture or licensed in the jurisdiction where Project is located.

2 Preparation
   a) Install temporary fencing located as indicated or outside the drip line of trees to protect remaining vegetation from construction damage.
   b) Protect tree root systems from damage due to noxious materials caused by runoff or spillage when moving, placing, or storing construction materials. Protect root systems from flooding, eroding, or excessive wetting caused by dewatering operations.
   c) Do not store construction materials, debris, or excavated material within the drip line of remaining trees. Do not permit vehicles or foot traffic within the drip line; prevent soil compaction over root systems.
   d) Do not allow fires under or adjacent to remaining trees or other plants.

3 Excavation
   a) Install shoring or other protective support systems to minimize slopeing or backing of excavations.
   b) Do not excavate within drip line of trees, unless otherwise indicated.
   c) Where excavation for new construction is required within drip line of trees, hand clear and excavate to minimize damage to root systems. Use narrow-time spading forks and comb soil to expose roots.

1) Relocate roots in backfill areas where possible. If encountering large, main lateral roots, expose roots beyond excavation limits as required to bend and relocate them without breaking. If encountered immediately adjacent to location of new construction and relocation is not practical, cut roots approximately 3 inches back from new construction.

2) Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary earth cover or pack with peat moss and wrap with burlap. Water and maintain in a moist condition. Temporarily support and protect roots from damage until they are permanently relocated and covered with soil.

4 Tree repair and replacement
   a) Promptly repair damaged trees by construction operations within 24 hours. Treat damaged trunks, limbs, and roots according to written instructions of the qualified arborist.
   b) Remove and replace dead and damaged trees that the qualified arborist determines to be incapable of restoring to a normal growth pattern.

1) Provide new trees of 6-inch caliper size and of a species selected by Designer when trees more than 6 inches in caliper size, measured 12 inches above grade, are required to be replaced.

5 Disposal of waste materials
   a) Burning is not permitted.
   b) Remove excess excavated material, displaced trees, and excess chips from Owner’s property.

3.04 CLEANUP
A Periodically (at least daily) and upon completion of the installation, remove all waste, dirt, wrapping and excess materials, tools and equipment, and carefully and thoroughly clean all surfaces to the satisfaction of the owner.

3.05 PROPERTY DAMAGE
A Protect all adjacent surfaces from damage and pay the cost of repairing any damage to the property caused by delivery or installation of materials. In all cases, match existing surfaces.

Specifications