



DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

Design guidelines for the implementation of signage,
display and print materials for the Delaware & Lehigh
National Heritage Corridor.



ACKNOWLEDGEMENTS

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Delaware and Lehigh
National Heritage Corridor

Donald M. Bernhard
Commission Chairman

On behalf of the Delaware and Lehigh Canal National Heritage Corridor Commission and the dedicated partners who worked on this project, I present this manual. In it you will find the visual elements that define the Delaware and Lehigh National Heritage Corridor and State Heritage Park. Directional signs lead visitors to Landings, interpretative signs provide people with pieces of the story, and orientation kiosks encourage visitors to stay a while. We hope you will take time to look through this manual, selecting elements you would like to use, and join with others within the Corridor to place an order. We are ready to begin inviting visitors to the sites currently open to the public and look forward to recognizing new sites in the future. Join me in linking the story line together as we lead visitors and residents through the Corridor.



TOUCH THE RIVER

by Thomas Stoneback

For centuries, we have stood upon the banks of the Delaware and Lehigh Rivers answering the call to live within their reach and bounty. We cleared trees from the flat, fertile lands for farms, and we farmed and developed the hillsides, too. Homes, factories, stores, highways, schools and other structures are built on once open land. We also harnessed the energy of our rivers for our business and pleasure. Our communities converted much land along the Delaware and Lehigh Rivers into uses suiting our needs in many ways.

Yet in some ways we feel strangely unsatisfied and vaguely uneasy about the future. What will it be like to live here 50 or 100 years from now when our resources are less abundant, when our population is much greater and there is even less open space for people to enjoy, to get away from the pressures of city life?

The Delaware and Lehigh National Heritage Corridor and State Heritage Park is a reservoir of natural, cultural, historic, recreational and economic resources that comprise our heritage. Scenic rivers, historic canals and towns, mountains, green valleys, natural and man-made recreation areas, the footprints of early industries, even a distinctive social and religious heritage— are the essence of the Corridor physically. And, as we now recognize, our surroundings, built and natural alike, have an immediate and continuing effect on the way we feel and act, and on our health and intelligence. These places affect our sense of self, our sense of safety, the kind of work we get done, the ways in which we interact with other people— even our ability to function as citizens in a democracy. The places where we spend our time influence who we are and what we become.

Yet, if the Lehigh and Delaware Rivers could speak, they would tell us that “we, who have been brought here by the river, are our own greatest resource.” To be good stewards of the heritage represented in the D & L Corridor, each of us must focus our minds on what our future in and along the Corridor will be like, and what we can do now to improve that future.



What kind of place will the children of our children see when they walk through our communities decades from now? What will they think of our stewardship of the bounty of resources that were in our care during a time when the restoration of some natural grandeur was still possible?

The Delaware and Lehigh National Heritage Corridor and State Heritage Park will answer those questions for the next generations. The Corridor provides a “sense of place” as it connects 150 miles of Pennsylvania communities.

The measure of our success as a community will be determined by how we use our lands and the value we place on our surroundings – our ability to recognize, preserve and connect ecology, economics, energy and aesthetics, all of which we view in the light of our human needs, regional tastes and activities, and personal aspirations. We preserve ourselves by preserving the land. The Delaware and Lehigh Canal National Heritage Corridor was created to help balance our community’s needs with our personal needs and desires.

The Corridor theme is developed in a family of signs and brochures designed to help residents and guests, alike, identify and link the various entities within the Corridor. They encourage us to understand the role the rivers, landscape, people, and industry play in our lives. And, remind us that this river valley is unique.

The Corridor guidelines offer opportunities for you to walk its trails, visit its historic sites, play and relax in its special places. Look through the notebook and take time to think about the Corridor, its importance and potential as our legacy to future generations. Then join the move toward our future.

The message of the Delaware and Lehigh National Heritage Corridor and State Heritage Park itself is the message heard by those who came first came here to:

Touch the river.



The Delaware and Lehigh National Heritage Corridor is rich, complex and diverse with many cultural, industrial and institutional sites and attractions. The purpose of this program is to make these resources accessible and clear to the public. To achieve this goal a wide array of signage, display and print materials have been developed. The implementation of this program, its ongoing management and financing are not a part of these guidelines. For information concerning these areas contact the Corridor Commission at (610) 861-9345 or write 10 East Church Street, P-208, Bethlehem, PA 18018.

These design guidelines describe and specify the elements that have been developed for the system. As listed in the table of contents there are many products and tools at your disposal. Each has a prescribed use and function. It is important to the success of this program that all specifications be adhered to. There are to be no changes or modifications to these guidelines without the express written permission of the Corridor Commission.



3.01

TYPEFACES + SYMBOLS

TYPEFACES

3.02

Typefaces approved for use in all aspects of this program

SYMBOLS

3.09

International symbols approved by the Society for
Environmental Graphic Design for use in all signage



ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

1234567890

Serifa bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

1234567890

Serifa light

Note

-no substitute typefaces will be accepted.

Typeface

- typeface is Adobe Serifa bold and light.
- normal kerning
- refer to specific applications for type sizes and leading requirements.
- typeface available from Adobe Systems Inc. (800)445.8787



ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Serifa roman

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Serifa italic

Note

-no substitute typefaces will be accepted.

Typeface

- typeface is Adobe Serifa roman and italic.
- normal kerning
- refer to specific applications for type sizes and leading requirements.
- typeface available from Adobe Systems Inc. (800)445.8787



ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

1234567890

Meta bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ

1234567890

Meta caps

Note

-no substitute typefaces will be accepted.

Typeface

- typeface is FontShop Meta bold and Meta caps.
- typeface is available from FontShop USA, (800) 387-3872
- refer to specific applications for type sizes and leading requirements.



Note

-no substitute typefaces will be accepted.

Typeface

-typeface is FontShop Meta normal.
-typeface is available from FontShop USA,
(800) 387-3872

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

1234567890

Meta normal



Serifa Bold - Use for Historical Markers, Trailblades, and Entrance Identifications

Moon Williamson

Too Open
Unacceptable Letterspacing

Moon Williamson

Acceptable Letterspacing

Moon Williamson

Too Tight
Unacceptable Letterspacing

Meta Bold - Use for Directional Vehicular and Trailblazer

Lehigh County

Too Open
Unacceptable Letterspacing

Lehigh County

Acceptable Letterspacing

Lehigh County

Too Tight
Unacceptable Letterspacing



Serifa Bold - Use for Wayside Panels

Mules and Men

Too Open
Unacceptable Letterspacing

Mules and Men

Acceptable Letterspacing

Mules and Men

Too Tight
Unacceptable Letterspacing

Meta Normal - Use for Wayside Panels

1831-1932

Too Open
Unacceptable Letterspacing

1831-1932

Acceptable Letterspacing

1831-1932

Too Tight
Unacceptable Letterspacing



Meta Caps - Use for Wayside Panels

M U L E P O W E R

Too Open
Unacceptable Letterspacing

M U L E P O W E R

Acceptable Letterspacing

M U L E P O W E R

Too Tight
Unacceptable Letterspacing



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3.09

SYMBOLS

Notes

-no substitute arrows or symbols
will be accepted.

Arrows

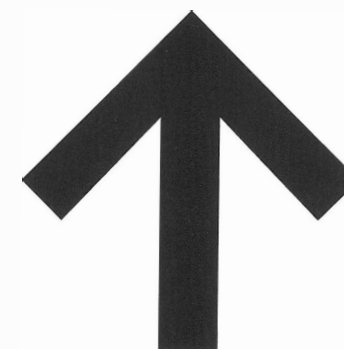
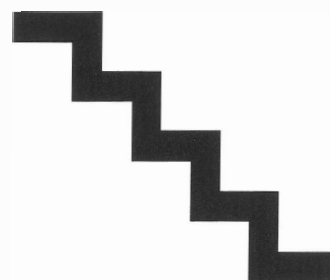
-Commission will provide successful bidder with
arrow artwork on Macintosh computer disk.

Symbols

-acceptable system of symbols is available on
Macintosh computer disk from:

The American Institute of Graphic Arts
1059 Third Avenue
New York, NY 10021
(212) 752-0813

Society for Environmental Graphic Design
One Story Street
Cambridge, MA 02138
(617) 868-3381





DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

LG.4.01

LOGO - LOGOTYPE

LOGO - LOGOTYPE

Options, variations in scale and color
Correct and incorrect uses

4.02



The symbol is the nucleus of this identity program. It captures the essence of the Corridor's rich history and at the same time serves as a beacon for future opportunity and growth in the region. It combines elements that represent landscape and industry. The mountains, river and canal, juxtaposed against the horizon-like lines of industry and the mechanical gear refer to the earliest beginnings of the Delaware and Lehigh Valleys. The serif typeface which surrounds the symbol, is derived from a mid-19th century typeface known as Egyptian. It evolved at a time when printers' types began to depart from handwritten qualities for sturdier, block like machined ones. While the landscape elements used in the symbol have historical significance they are also essential to the present and future character of the Corridor. The design is essentially modern and it is the combination of historical elements and a contemporary expression that give the symbol spirit, relevance and longevity.

As the official imprimatur for the Delaware and Lehigh National Heritage Corridor it must be implemented with care and respect. In order to insure its success it is essential that the standards on the following pages be adhered to.

The symbols shown on the following pages have been prepared in both Macintosh and DOS based computer formats.



The logo of the Delaware and Lehigh National Heritage Corridor and State Heritage Park shall be used to identify the Corridor and its component facilities and promote the Corridor as a unified whole made up of the sum of its parts (facilities). For the purposes of this statement, facilities are those sites, buildings and interpretive structures open to the public, whether a fee is charged or not. This includes, but is not limited to, museums, historic sites, environmental education centers, visitor centers, rest areas, parklands, trails, motels, restaurants and service stations.

Conditions

- 1.** The logo is registered for the sole use of the Corridor Commission. Permission to use it, or licensing of its use, can only be authorized by the Corridor Commission.
- 2.** The logo is displayed on any project funded in whole or in part by the Corridor Commission.
- 3.** The logo cannot be used without the expressed permission of the person or agency having jurisdiction over the facility.
- 4.** Use of the logo for commercial purposes, such as T-shirts, souvenirs, etc., can only be approved by the Corridor Commission. Permission for commercial use shall be based upon the Corridor Commission's approval of compatible use supporting the Corridor's mission. Financial considerations must be negotiated prior to application and/or use.
- 5.** Permission to use the logo may be rescinded if not being applied under conditions stipulated in granting permission for its use.
- 6.** Brochures, pamphlets and educational materials produced cooperatively by the Corridor Commission with other groups will display the logo. The materials prepared by others must be reviewed for content and presentation before permission to use the logo is given.
- 7.** Permission or licensing for logo use does not imply Corridor Commission endorsement of an event, mission or product.



Procedures

1. Each use request must be made in writing.
2. Instructions on the use and application of the logo for all projects funded by the Corridor Commission (or matching grant recipients) are written by the Executive Director and available at the same time grant award notification is made.
3. Commercial use will be reviewed by the Corridor Commission's Executive Committee, followed by a written recommendation, approval or refusal.
4. Non-commercial uses are reviewed and approved by the Executive Director. Denial of use may be appealed to the Corridor Commissioners, in writing, with full disclosure about proposed logo usage.



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LG.4.05

LOGO - LOGOTYPE



This symbol has been drawn for use in large scale signage applications only. This application should not be used in sizes that exceed the parameters outlined here otherwise the symbol will not reproduce properly. In using the signage application the smallest diameter is 5" and the largest diameter is 36".

For Historical Markers and Trailblades in which the symbol is smaller than 5" diameter use the print application LG.4.06.

5" minimum

36" maximum

Date **7.95**

Title **Signage applications**

Scale **Actual size**



DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

LG.4.06

LOGO - LOGOTYPE



3/4"
minimum

5"
maximum

This symbol has been drawn for use in print applications only. This application should not be used in sizes that exceed the parameters outlined here otherwise the symbol will not reproduce properly. In using the print application the smallest desirable diameter is 3/4" and the largest desirable diameter is 5".

In the event a print application requires a diameter larger than 5", use the large scale signage application LG.4.05.

When this symbol is properly reproduced at the standard 2400 dpi used for all print applications the resolution of the symbol will be correct and sharp.

When used on printed materials, this symbol will always be accompanied by the statement "A Federal, State and Local Partnership". Refer to the section on printed materials for further details.

Date	7.95
Title	Print applications
Scale	Actual size



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LG.4.07

LOGO - LOGOTYPE

This symbol has been drawn for use in computer laser applications only with a minimum output of 300 dpi. This application should not be used in sizes that exceed the parameters outlined here otherwise the symbol will not reproduce properly. In using the laser application the smallest desirable diameter is 1" and the largest desirable diameter is 2".

In the event a laser application requires a diameter larger than 2", use the print application LG.4.06.



1"
minimum

2"
maximum

Date	7. 95
Title	Laser applications
Scale	Actual size



SG.5.01

SIGNAGE

SCHEDULE OF SIGN TYPES

Type	Description	Drawing Number
Directional Vehicular	Single or double sided aluminum panels for directing visitors from interstate roads, highways and secondary roads to landings, museums and other areas of interest along the Corridor.	SG.5.03
Pedestrian Historical Marker	Single sided aluminum panels that carry "on this spot" historic vignettes and images.	SG.5.06
Identification	Single or double sided freestanding identification signs used to announce the name of the site or institution and provide information to the general public about schedule and admission.	SG.5.09
	One sided discs used to retrofit existing entrance signs to identify participating institutions as members of the heritage family.	SG.5.14
Auto Trail	Single sided discs used to define a designated auto tour. Single or double sided panels used to identify a site or stop along an auto tour.	SG.5.16
Pedestrian Trail Entrance	Single sided aluminum blades used to provide pedestrian directional information, brief site specific descriptions, and trail quality guidelines.	SG.5.21
Changeable Messages	Interior information signs that can be permanent or temporary. They may carry special events, program information, or announcements and be used to identify a building, space or function.	SG.5.24



SG.5.02 SIGNAGE

									<p>Date</p> <p>Title</p> <p>Scale</p>	<p>7.95</p> <p>Signage - Overview</p> <p>3/8" = 1'</p>
<p>Pedestrian Historical Marker SG.5.06</p>	<p>Auto Trail SG.5.17</p>	<p>Auto Trail Stop SG.5.20</p>	<p>Directional Vehicular SG.5.03</p>			<p>Pedestrian Trail Entrance SG.5.21</p>	<p>Main Entrance Identification SG.5.09</p>			

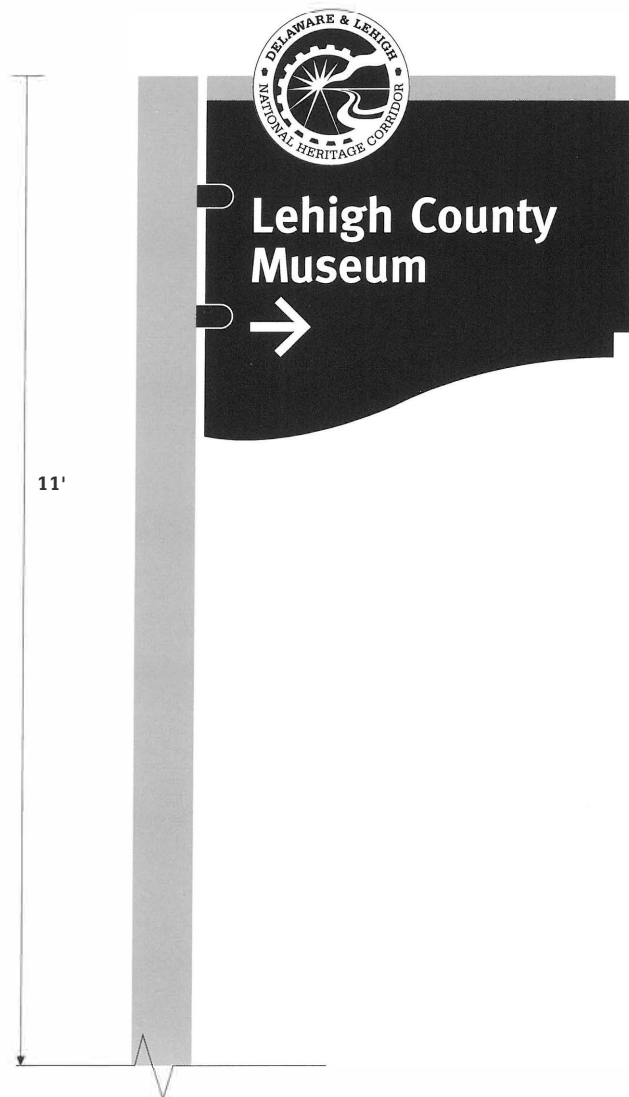


DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

SG.5.03

SIGNAGE

Single Message Unit



Double Message Unit



Triple Message Unit



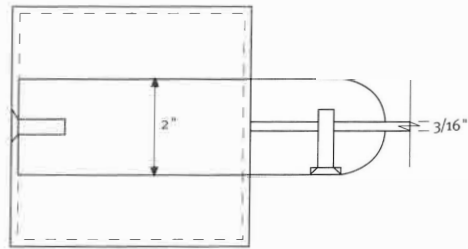
Directional Vehicular

-Directional signs lead visitors to sites open during expected hours throughout the year. Typically this is a minimum of seven days during peak visitation periods and weekends during the off season.

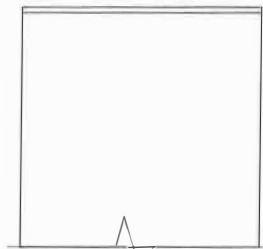
-Message hierarchy as identified on the following pages refers to the order in which a message and its arrow should be applied to the sign.

-Specifications have been repeated on pages SG.5.04 and SG.5.05 so that individual pages can be excerpted from the manual for convenient use.

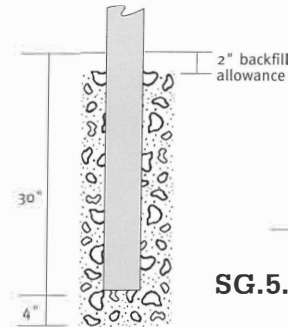
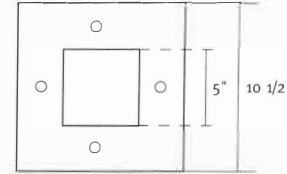
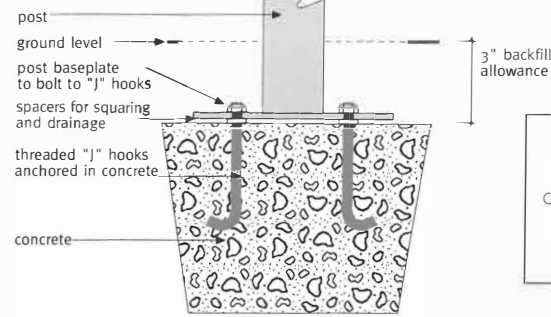
Date	7.95
Title	Directional Sign - Vehicular
Scale	3/4" = 1'



Section of
Post Detail
3" = 1'



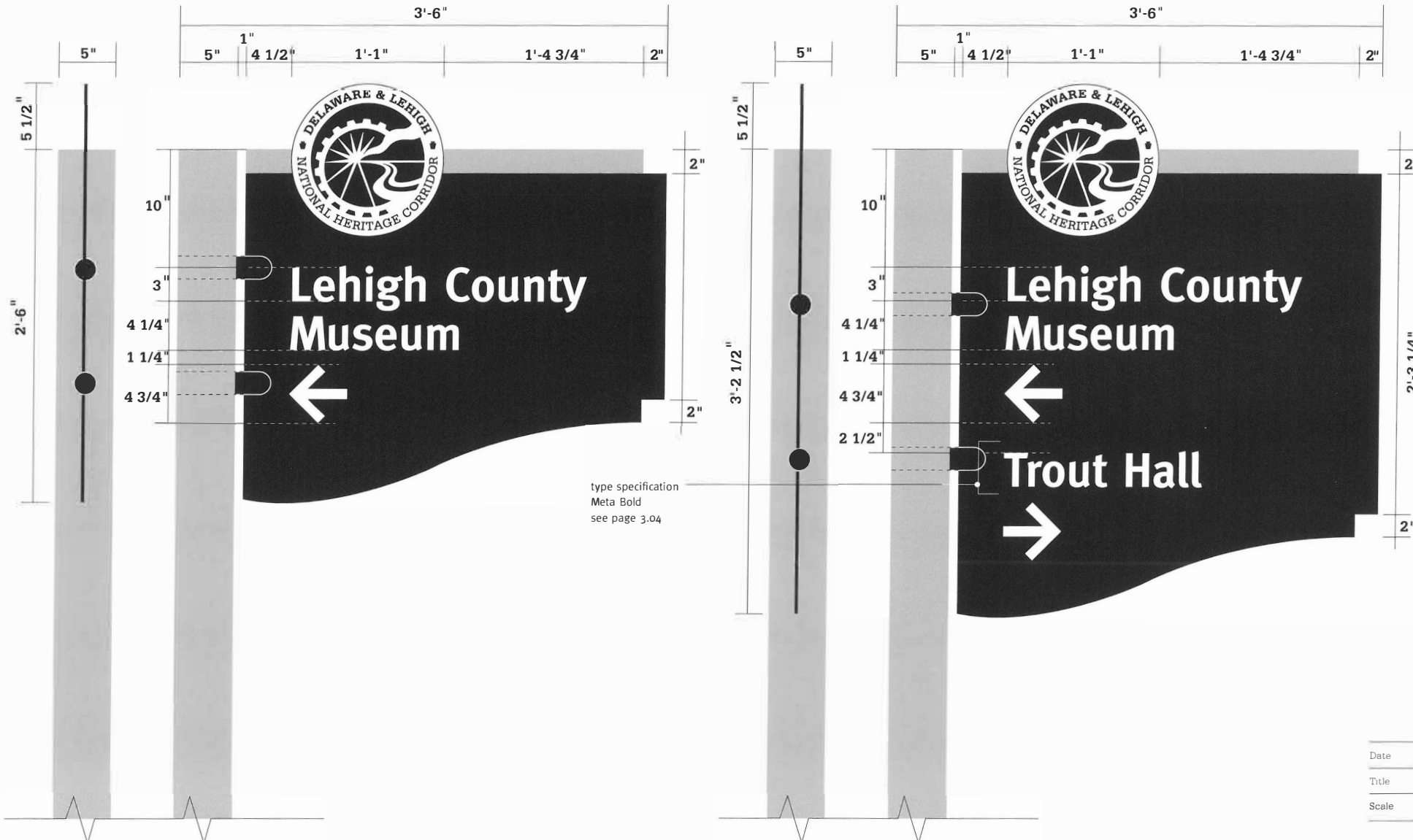
Cap Detail
3" = 1'



DELAWARE & LEHIGH
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SG.5.04

SIGNAGE



Material & Fabrication

- signs can be single sided only
- panels to be made of 3/16" aluminum
- posts to be made from 5"x 5" aluminum extrusion with a wall thickness of 1/8"
- caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post
- all corners and edges ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges

Message Hierarchy

- first: straight (↑); second: left (←);
- third: right (→); fourth: bear left (↖);
- fifth: bear right (↗)

Color

- post, cap and top horizontal edge of sign: P2-Matthews LS-63694 satin
- sign panel including circular shape and rod attachment: P1-Matthews LS-52894 satin (all areas shown in black)
- type symbol and arrows: die cut Scotchlite reflective white vinyl

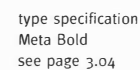
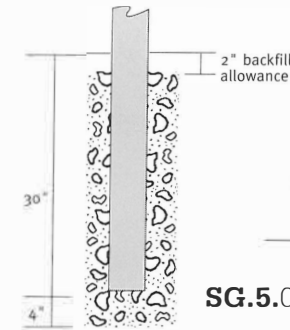
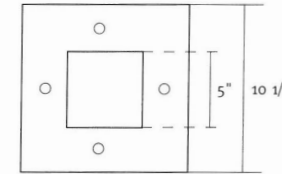
Installation

- post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete
- bolts to be tamper proof
- option: 14' pole for direct burial in ground or wet concrete (3' in, 11' above)
- for direct burial in ground or wet concrete where a lower sign height is desirable use 11' post and install to desired height
- location to be verified by fabricator and client representative and approved by Pennsylvania Department of Transportation

Date **7.95**

Title **Directional - Vehicular**

Scale **1" = 1'**

**SG.5.05**

- post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete
- bolts to be tamper proof
- option: 14' pole for direct burial in ground or wet concrete (3' in, 11' above)
- for direct burial in ground or wet concrete where a lower sign height is desirable use 11' post and install to desired height
- locations to be verified by fabricator and client representative and approved by Pennsylvania Department of Transportation

Date	7.95
Title	Directional - Vehicular
Scale	1" = 1'



Historical Marker

-Pedestrian Historical Markers for interpretive wayside exhibits. They are to be used in urban areas where Standard Wayside Exhibits (DG 6.02-.20) are not practical. They typically describe what happened "on this spot" years ago. Local artists can line draw what the site looked like at the time the described incident took place.

Note

- marker height shown is from top of sign to base plate shown on SG.5.08 and should be used when locating signs in the pedestrian right of way.
- where site conditions allow installation of sign without need for base plate, another option is a 14' pole for direct burial in ground or wet concrete (3' in, 11' above)
- for markers where a lower height is desirable i.e. on property set back or behind a fence or garden wall etc., a 9' pole for direct burial in ground or wet concrete (3' in, 6' above) can be used
- these pole dimensions can be modified to suit conditions. When selecting a pole height (other than specified here) the rule of thumb is approximately 1/3 of the total pole height should be buried in ground or wet concrete leaving the remaining 2/3 above ground.
- markers must meet applicable local safety codes.

Date	7.95
Title	Pedestrian Historical Marker
Scale	3/4" = 1'



SG.5.07

SIGNAGE

Historic Fallsington

Moon Williamson Log House



Quaker Samuel Moon resided here in the late 1700s and early 1800s. As a well known carpenter, he was particularly skilled in making Windsor chairs. This celebrated and prized antique originally served a functional role in public buildings and taverns. The chair requires no screws or nails, with the distinctive stick legs and spindle backs driven into the plank seating. The Windsor chairs of Samuel Moon continue to live on in the museum and private collections of southeastern Pennsylvania.



Breinig & Bachman Building



The B & B, or Breinig & Bachman Building was a men's clothing store that occupied the ground floor for many years. No one can say for sure why the gargoyle animal heads were added. Perhaps it was to please one of the building's original long-time tenants, the wholesale grain and animal feed dealer George W. Eckert. Built in 1894, this yellow bricked structure replaced a building of a similar name built three years before. The first B & B building was destroyed, along with the rest of the southeast side of the street, in a fire on the night of October 13, 1893.

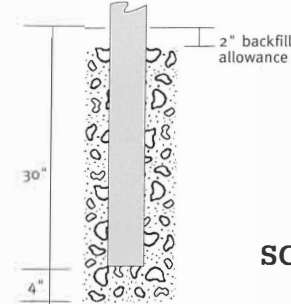
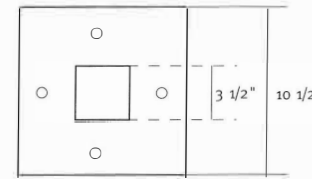
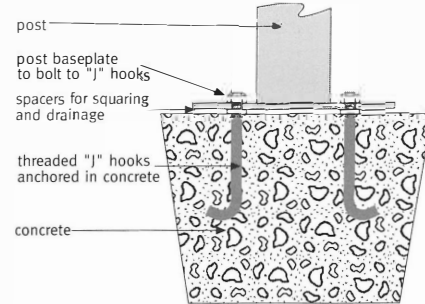
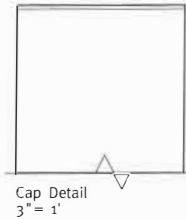
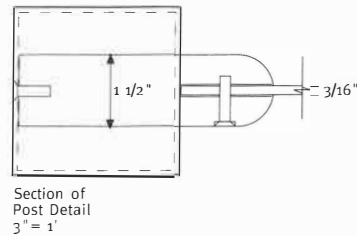


Old Court House County Museum



In the Old Lehigh County Court House is The Lehigh County Historical Society, its library and museum. Local history exhibits in the museum's first floor provide a background for the history of Lehigh County from prehistoric times up to the present. The Scott Trexler II Library is a vast source of historical and genealogical information. In the rear is the Geology Garden, which explains the mineral history of the Lehigh Valley.

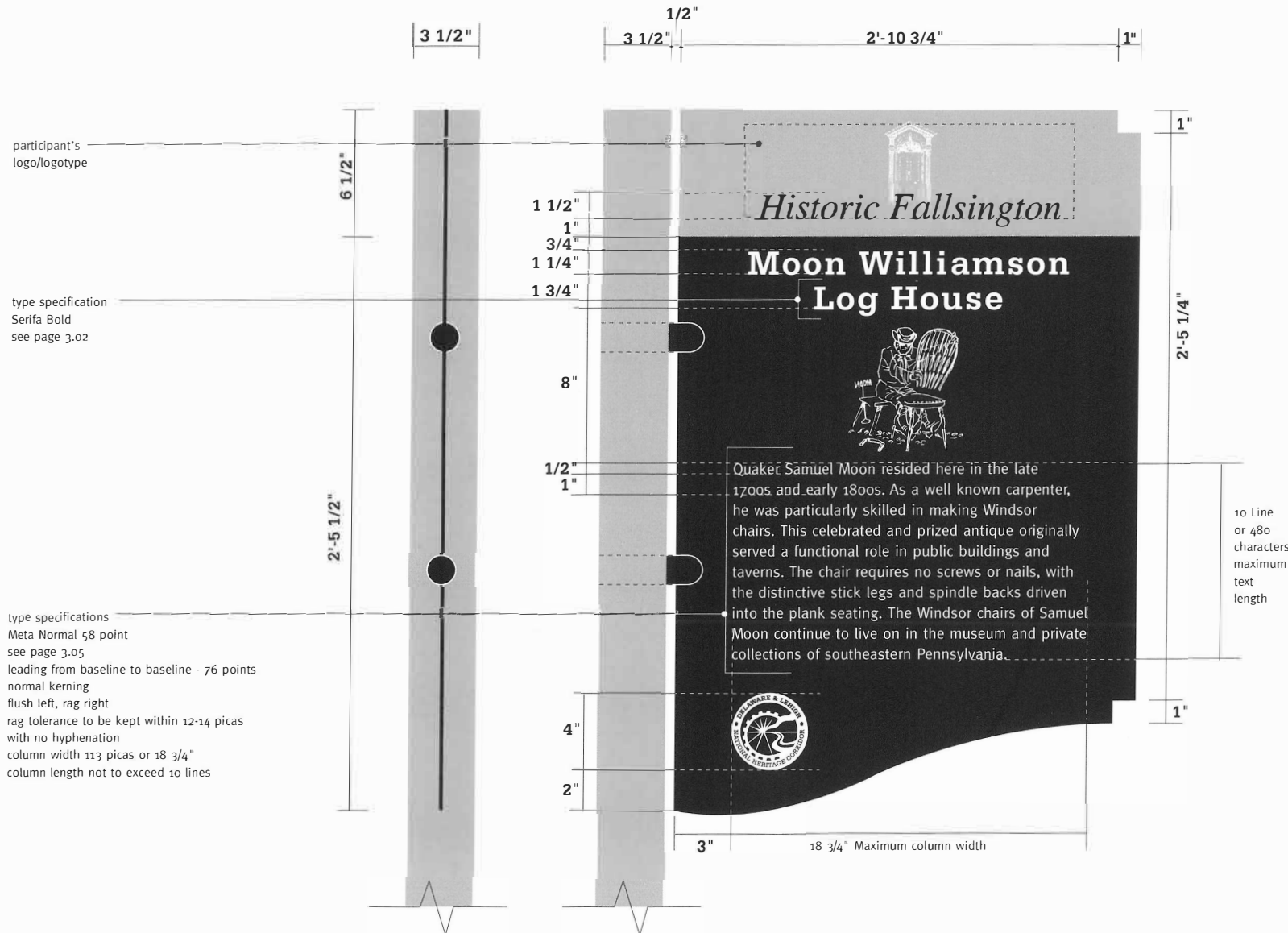




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SG.5.08A

SIGNAGE



Material & Fabrication

- all signs are one sided
- panels to be made of 3/16" aluminum
- posts to be made from 3 1/2"x 3 1/2" aluminum extrusion with a wall thickness of 1/8"
- caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post
- all corners and edges ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges

Color

- post, cap and top horizontal edge of sign: P2-Matthews LS-63694 satin
- sign panel, rod attachment, symbol and type on top edge: P1-Matthews LS-52894 satin (all area shown in black)
- type symbol and arrows: die cut Scotchlite reflective white vinyl

Installation

- post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete
- bolts to be tamper proof
- option: 14' pole for direct burial in ground or wet concrete (3' in, 11' above)
- for direct burial in ground or wet concrete where a lower sign height is desirable use 11' post and install to desired height
- location to be verified by fabricator and client representative

Date	7.95
Title	Pedestrian Historical Marker - Detail
Scale	1 1/2"=1'



SG.5.08B

Material & Fabrication

- Color**

- ## Installation

- 5



Title

Scale

$$1\frac{1}{2}'' = 1'$$



DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

SG.5.09

SIGNAGE

Main Entrance Sign

Places wishing to indicate they are an important part of the story will want to identify with the Corridor by using these entrance signs. These signs announce to the visitor that they have arrived.

Eckley
Miners'
Village

Mon-Sat 9am-5pm
Sun 12pm-5pm
Closed holidays, except Memorial Day,
July 4 and Labor Day



Eckley Miners'
Village

Mon-Sat 9am-5pm
Sun 12pm-5pm
Closed holidays, except Memorial Day,
July 4 and Labor Day



Date

7.95

Title

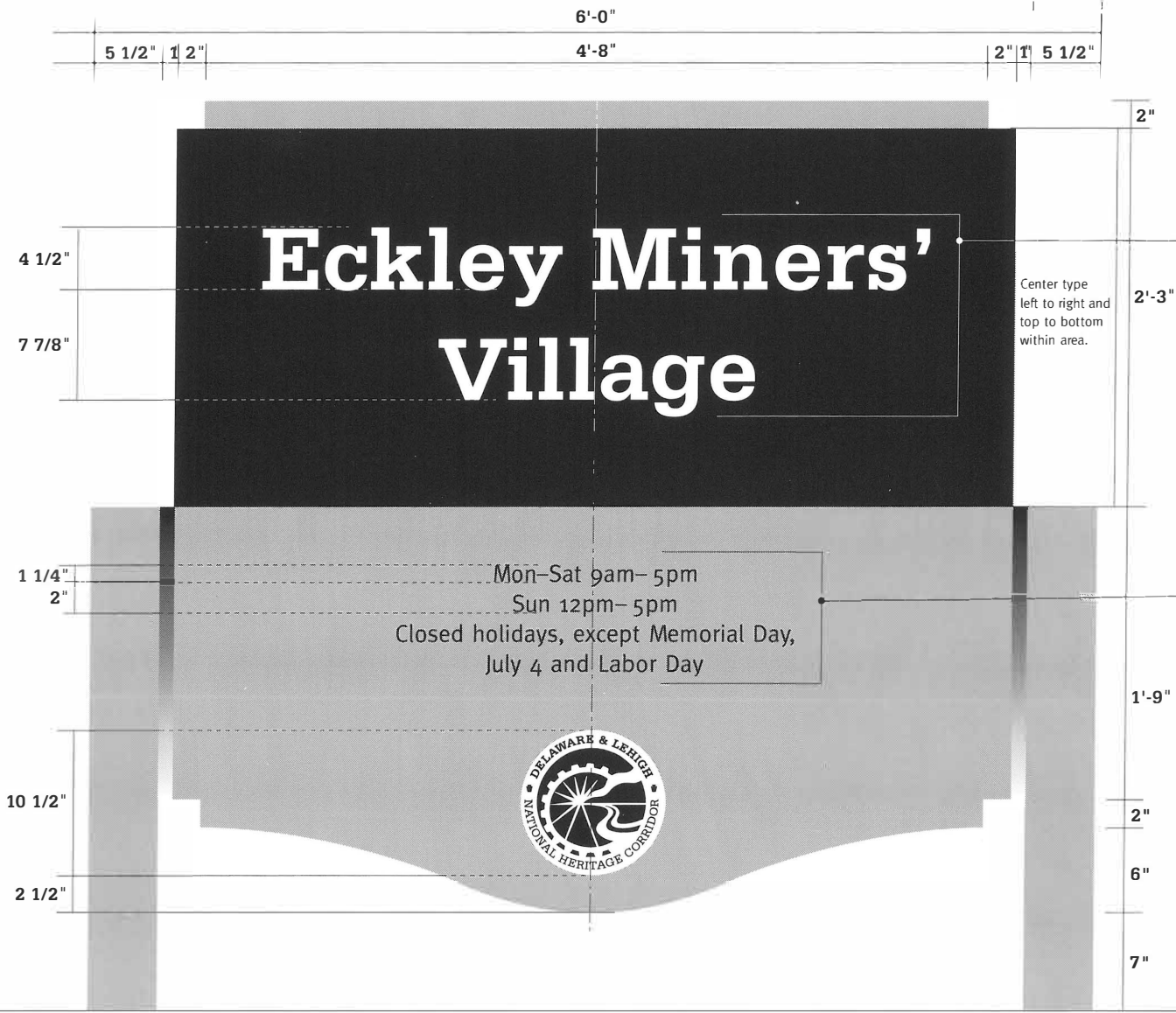
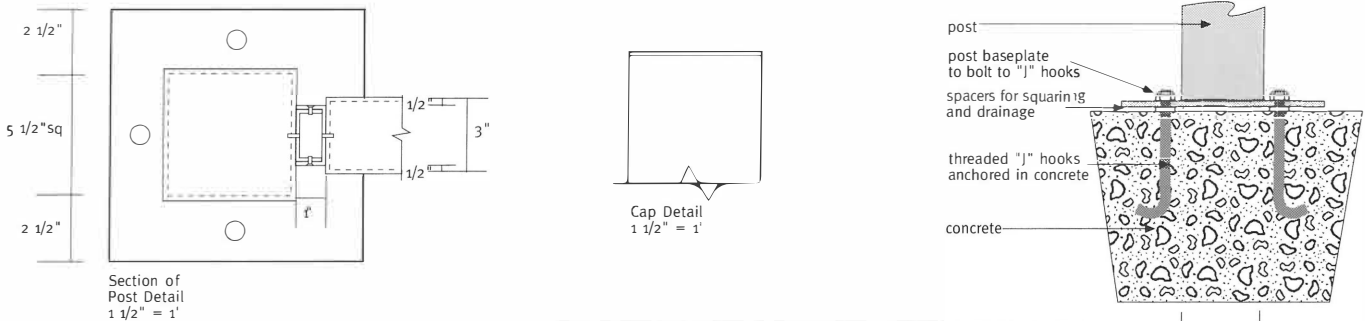
Identification - Main Entrance

Scale

3/4" = 1'



SG.5.10 SIGNAGE



Material & Fabrication

- signs can be single or double sided
- panels to be made of .090 (alloy 3003) aluminum sheet panels or heavier to ensure flatness and rigidity without oil canning
- panels are to be attached to an aluminum square tube frame, structurally reinforced as necessary to ensure stability and strength
- posts to be made from 5 1/2" x 5 1/2" aluminum extrusion with a wall thickness of 1/8"
- caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post
- channels to be 1" x 2", finish to match post
- all corners and edges ground smooth before painting
- no visible fasteners throughout, sign box to have clean seamless appearance
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges

Color

- post, cap, channel connection, bottom half of sign and both sides as well as top horizontal edge: P2-Matthews LS-63694 satin
- top half of sign box, symbol, type on bottom half and both sides: P1-Matthews LS-52894 satin (all areas shown in black)
- type, symbol and arrows (if used): die cut Scotchlite reflective white vinyl

Installation

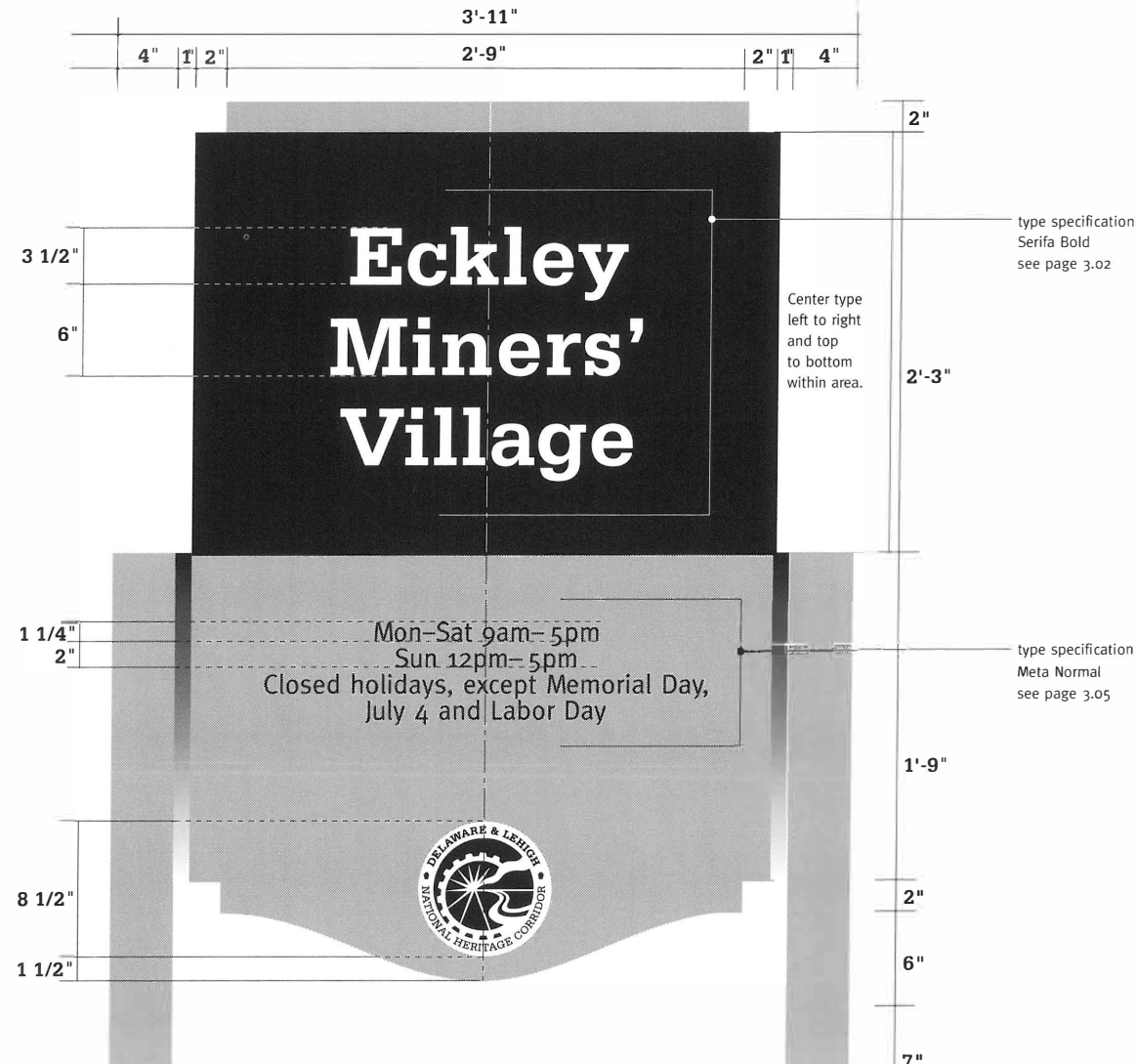
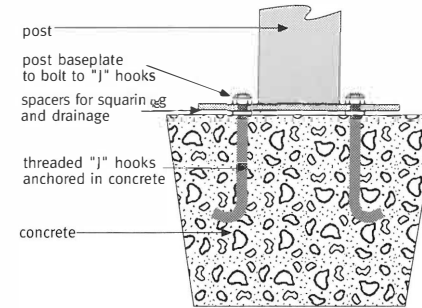
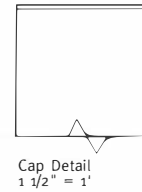
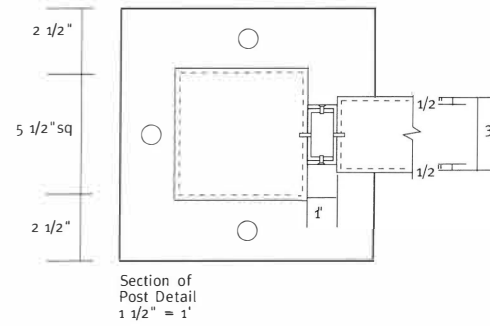
- post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete
- bolts to be tamper proof
- location to be selected by client representative

Date	7.95
Title	Identification - Main Entrance
Scale	1" = 1'



SG.5.11

SIGNAGE



Material & Fabrication

- signs can be single or double sided
- panels to be made of .090 (alloy 3003) aluminum sheet panels or heavier to ensure flatness and rigidity without oil canning
- panels are to be attached to an aluminum square tube frame, structurally reinforced as necessary to ensure stability and strength
- posts to be made from 4" x 4" aluminum extrusion with a wall thickness of 1/8"
- caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post
- channels to be 1" x 2", finish to match post - all corners and edges ground smooth before painting
- no visible fasteners throughout, sign box to have clean seamless appearance
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges

Color

- post, cap, channel connection, bottom half of sign and both sides as well as top horizontal edge: P2-Matthews LS-63694 satin
- top half of sign box, symbol, type on bottom half and both sides: P1-Matthews LS-52894 satin (all areas shown in black)
- type, symbol and arrows (if used): die cut Scotchlite reflective white vinyl

Installation

- post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete
- bolts to be tamper proof
- location to be selected by client representative

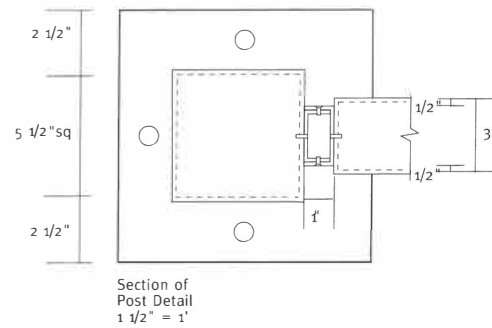
Date	7.95
Title	Identification - Main Entrance
Scale	1" = 1'



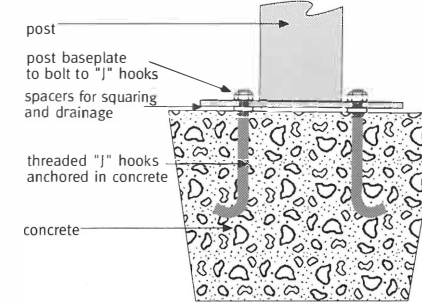
DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

SG.5.12

SIGNAGE



Cap Detail
1 1/2" = 1'



Material & Fabrication

- signs can be single or double sided
- panels to be made of .090 (alloy 3003) aluminum sheet panels or heavier to ensure flatness and rigidity without oil canning
- panels are to be attached to an aluminum square tube frame, structurally reinforced as necessary to ensure stability and strength
- posts to be made from 5 1/2"x 5 1/2" aluminum extrusion with a wall thickness of 1/8"
- caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post
- channels to be 1" x 2", finish to match post
- all corners and edges ground smooth before painting
- no visible fasteners throughout, sign box to have clean seamless appearance
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges

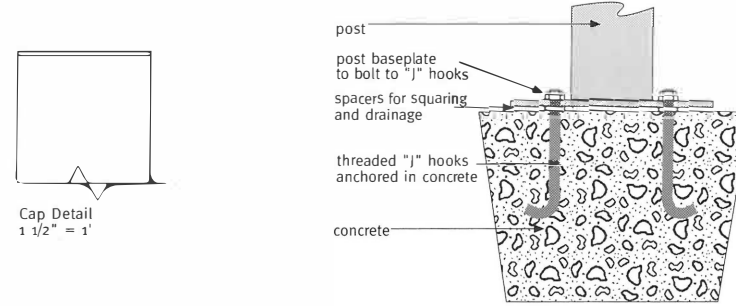
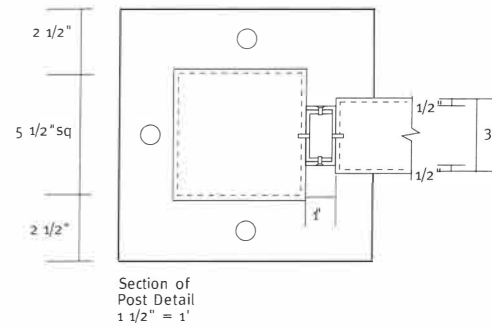
Color

- post, cap, channel connection, bottom half of sign and both sides as well as top horizontal edge: P2-Matthews LS-63694 satin
- top half of sign box, symbol, type on bottom half and both sides: P1-Matthews LS-52894 satin (all areas shown in black)
- type, symbol and arrows (if used): die cut Scotchlite reflective white vinyl

Installation

- post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete
- bolts to be tamper proof
- location to be selected by client representative

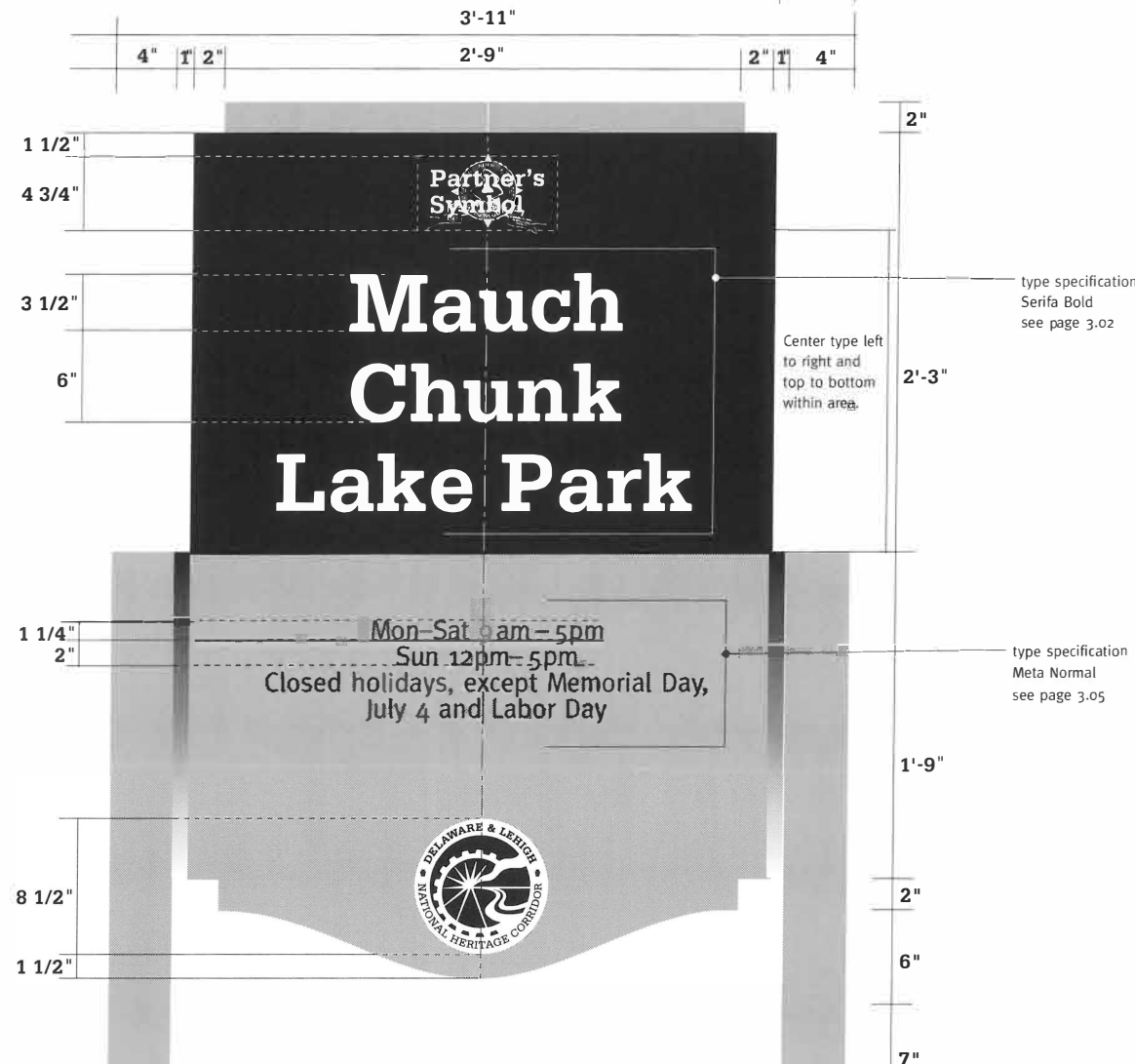
Date	7.95
Title	Identification - Main Entrance
Scale	1" = 1'



DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

SG.5.13

SIGNAGE



Material & Fabrication

- signs can be single or double sided
- panels to be made of .090 (alloy 3003) aluminum sheet panels or heavier to ensure flatness and rigidity without oil canning
- panels are to be attached to an aluminum square tube frame, structurally reinforced as necessary to ensure stability and strength
- posts to be made from 4"x 4" aluminum extrusion with a wall thickness of 1/8"
- caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post
- channels to be 1" x 2", finish to match post
- all corners and edges ground smooth before painting
- no visible fasteners throughout, sign box to have clean seamless appearance
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges

Color

- post, cap, channel connection, bottom half of sign and both sides as well as top horizontal edge: P2-Matthews LS-63694 satin
- top half of sign box, symbol, type on bottom half and both sides: P1-Matthews LS-52894 satin (all areas shown in black)
- type, symbol and arrows (if used): die cut Scotchlite reflective white vinyl

Installation

- post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete
- bolts to be tamper proof
- location to be selected by client representative

Date	7.95
Title	Identification - Main Entrance
Scale	1" = 1'



13" Disk

18" Disk



13" Disk



DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

SG.5.14

S I G N A G E

Material & Fabrication

- all signs are one sided
- tabbed disks to be made of 3/16" aluminum
- posts to be made from standard U-channel extrusion
- all corners and edges ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- disks and posts to be painted with Matthews acrylic polyurethane satin finish, face and all edges

Color

- disk: P1-Matthews LS-52894 satin
- post: P2-Matthews LS-63694 satin
- symbol: die cut Scotchlite reflective white vinyl

Installation

- tabbed disks to be bolted at top and bottom tabs into existing posts
- where U-channel is required, tabbed disks to be bolted at top and bottom tabs through U-channel
- where U-channel is required, for direct burial approximately 1/3 of channel height in ground or wet concrete
- see SG.5.18 for more complete specifications

Date

7.95

Title

Main Entrance- Corridor Retrofit

Scale

NTS



18" Disk



18" Disk

18" Disk



DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

SG.5.15 SIGNAGE

- Material & Fabrication**
- all signs are one sided
 - tabbed disks to be made of 3/16" aluminum
 - posts (when required) to be made from standard U-channel extrusion see SG.5.18
 - all corners and edges ground smooth before painting
 - finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
 - disks and posts to be painted with Matthews acrylic polyurethane satin finish, face and all edges

- Color**
- disk: P1-Matthews LS-52894 satin
 - post: P2-Matthews LS-63694 satin
 - symbol: die cut Scotchlite reflective white vinyl

- Installation**
- tabbed disks to be bolted at top and bottom tabs into existing posts
 - where U-channel is required, tabbed disks to be bolted at top and bottom tabs through U-channel
 - where U-channel is required, for direct burial approximately 1/3 of channel height in ground or wet concrete
 - see SG.5.18 for more complete specifications

Date	7.95
Title	Main Entrance- Corridor Retrofit
Scale	NTS



DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

Four lane or
divided highway

Two lane

Site

SG.5.16

SIGNAGE



Auto Trail

The D&L Drive links the Corridor by automobile the same way the D&L Trail does for hikers and bicyclers. The visitors and residents will follow the route by following the signs. Auto trails linking pieces of history by theme or interest will use the specialty tour signs. One descriptive word will be used on each trail indicating its uniqueness.

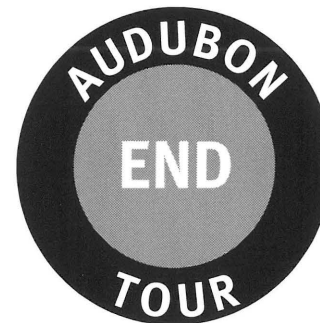
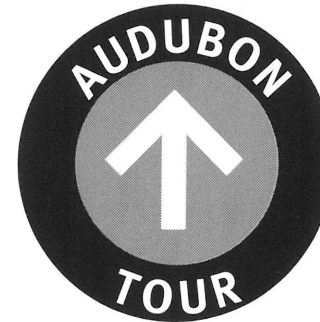
Date	7.95
Title	Auto Trail
Scale	3/4" = 1'



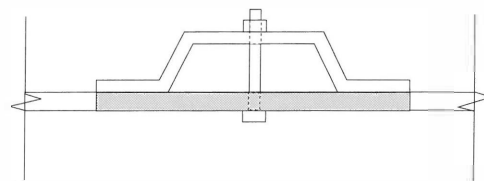
DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

SG.5.17

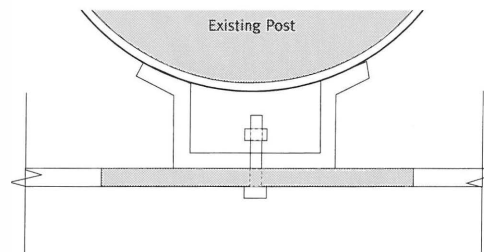
SIGNAGE



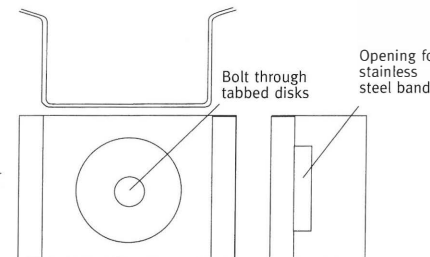
Date	7.95
Title	Auto Trail/Message Options
Scale	1" = 1'



Option 1: Direct bolt to U channel
Section of Post Detail
1/2 Full Scale



Option 2: Bandit mounting system
Section of Post Detail
1/2 Full Scale



Bandit Mounting Bracket
1/2 Full Scale

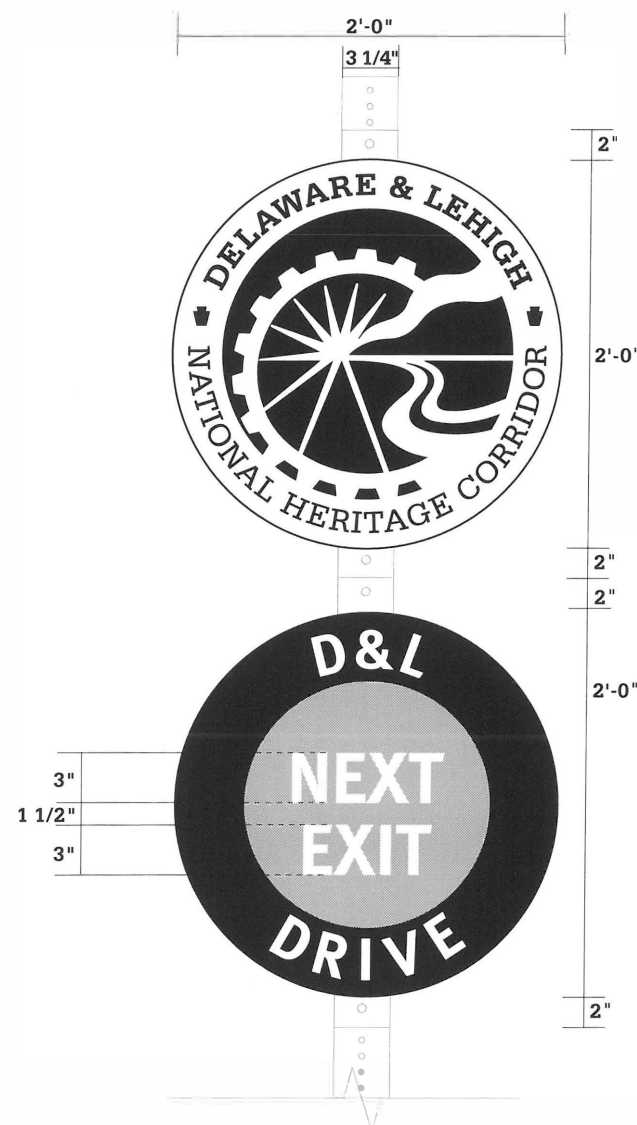


DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

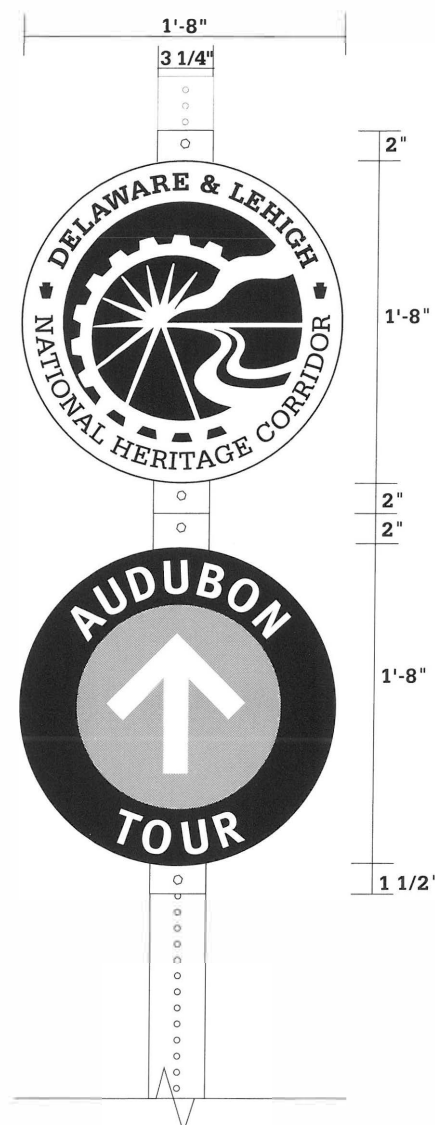
SG.5.18

S I G N A G E

4 Lane



2 Lane



The Bandit mounting bracket is to be used when trailblazer discs are to be attached to pre-existing square or cylindrical posts.

Using pre-existing square or cylindrical posts eliminates the cost of a new U channel and reduces visual clutter in the environment.

Material & Fabrication

- all signs are one sided
- tabbed disks to be made of 3/16" aluminum extrusion
- posts to be made from standard U-channel extrusion
- all corners and edges ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- disks and posts to be painted with Matthews acrylic polyurethane satin finish, face and all edges

Color

- disk and symbols: P1-Matthews LS-52894 satin (all areas shown in black)
- posts and disk centers: P2-Matthews LS 63694 satin (all areas shown in grey)
- type, symbol and arrows: die cut Scotchlite reflective white vinyl (all areas shown in white)

Installation

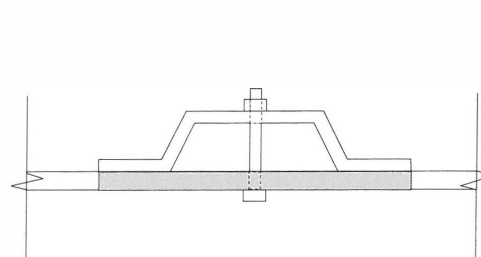
- for direct burial in ground or wet concrete use 14" post (3' in , 11' above)
- tabbed disks to be bolted at top and bottom tabs through U-channel
- tabs to be used as vertical spacers along U-channel
- option: when installing on an existing post, bolt through Bandit mounting bracket and band to post
- locations to be verified by fabricator and client representative

Date	7.95
Title	Auto Trail
S	cale 1" = 1'

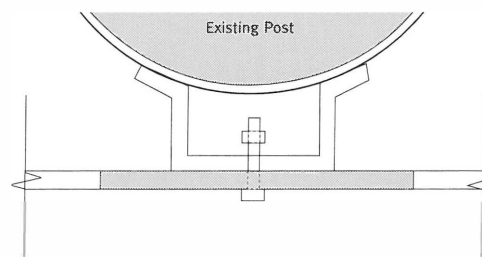


SG.5.19

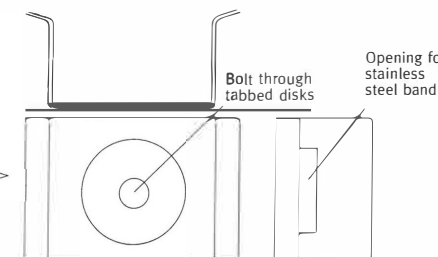
SIGNAGE



Option 1: Direct bolt to U channel
Section of Post Detail
1/2 Full Scale

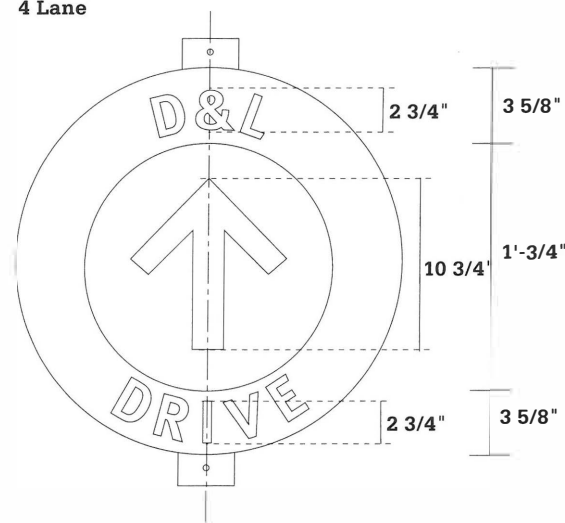


Option 2: Bandit mounting system
Section of Post Detail
1/2 Full Scale



Bandit Mounting Bracket
1/2 Full Scale

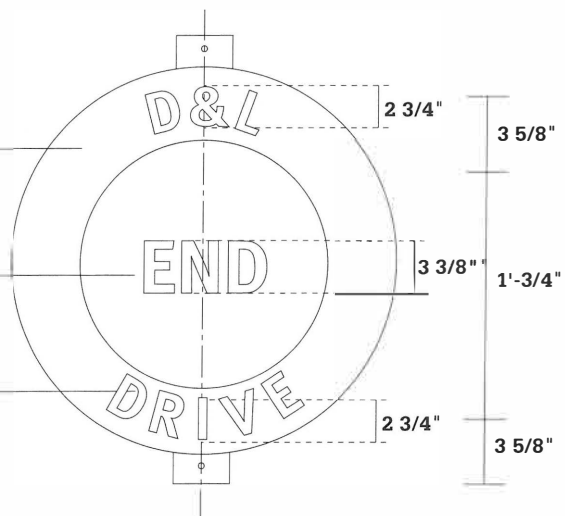
4 Lane



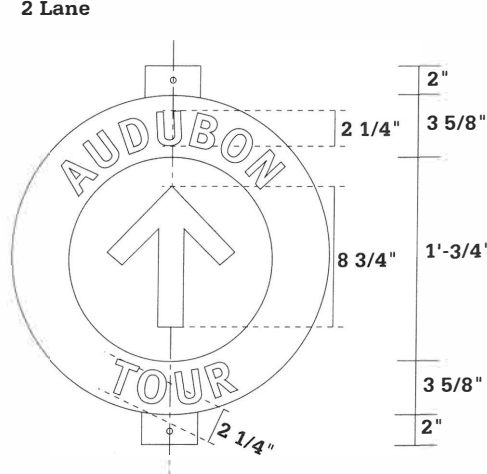
Meta Bold:
see page 3.04
center top to
bottom and left to
right within band

Meta Bold:
see page 3.04
center top to
bottom and left to
right within circle

Meta Bold:
see page 3.04
center top to
bottom and left to
right within band



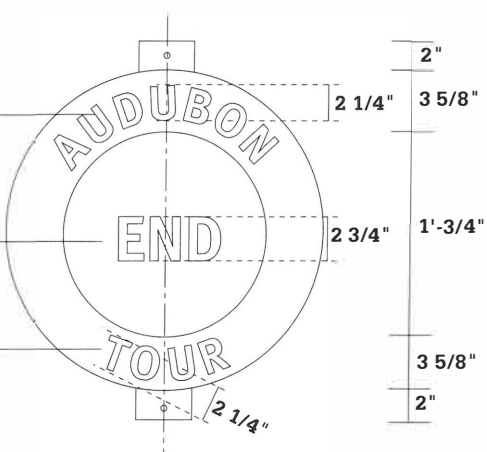
2 Lane



Meta Bold:
see page 3.04
center top to
bottom and left to
right within band

Meta Bold:
see page 3.04
center top to
bottom and left to
right within circle

Meta Bold:
see page 3.04
center top to
bottom and left to
right within band



Material & Fabrication

- all signs are one sided
- tabbed disks to be made of 3/16" aluminum
- posts to be made from standard U-channel extrusion
- all corners and edges ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- disks and posts to be painted with Matthews acrylic polyurethane satin finish, face and all edges

Color

- disk and symbols: P1-Matthews LS-52694 satin (all areas shown in black - see SG.5.18)
- post and disk centers: P2-Matthews LS-63694 (all areas shown in grey - see SG.5.18)
- type, symbol and arrows: die cut Scotchlite reflective white vinyl (all areas shown in white - see SG.5.18)

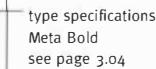
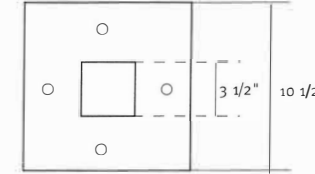
Installation

- for direct burial in ground or wet concrete use 14" post (3' in , 11' above)
- tabbed disks to be bolted at top and bottom tabs through U-channel
- tabs to be used as vertical spacers along U-channel
- option: when installing on an existing post, bolt through Bandit mounting bracket and band to post
- locations to be verified by fabricator and client representative

Date	7.95
Title	Auto Trail
Scale	1" = 1'



SIGNAGE

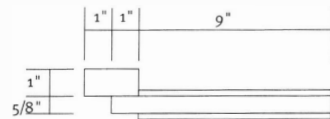


- signs can be single or double sided
- panels to be made of 3/16" aluminum
- posts to be made from 3 1/2"x 3 1/2" aluminum extrusion with a wall thickness of 1/8"
- caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post
- all corners and edges ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges
- Delaware and Lehigh logo to center left to right on sign panel, message and arrow to align with left side of logo

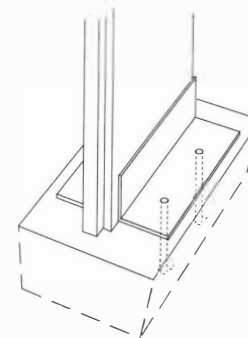
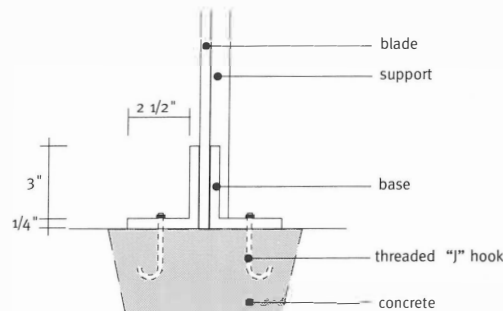
- post, cap and top horizontal edge of sign: P2-Matthews LS-63694 satin
- sign panel and symbols: P1-Matthews LS-52894 satin (all areas shown in black)
- type, symbol and arrows: die cut Scotchlite reflective white vinyl

- post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete
- bolts to be tamper proof
- option: 14' post for direct burial in ground or wet concrete (3' in, 11' above)
- for direct burial in ground or wet concrete where a lower sign height is desirable use 11' post and install to desired height
- location to be verified by fabricator and client representative

Date	7.95
Title	Auto Trail Stop
Scale	1 1/2" = 1'



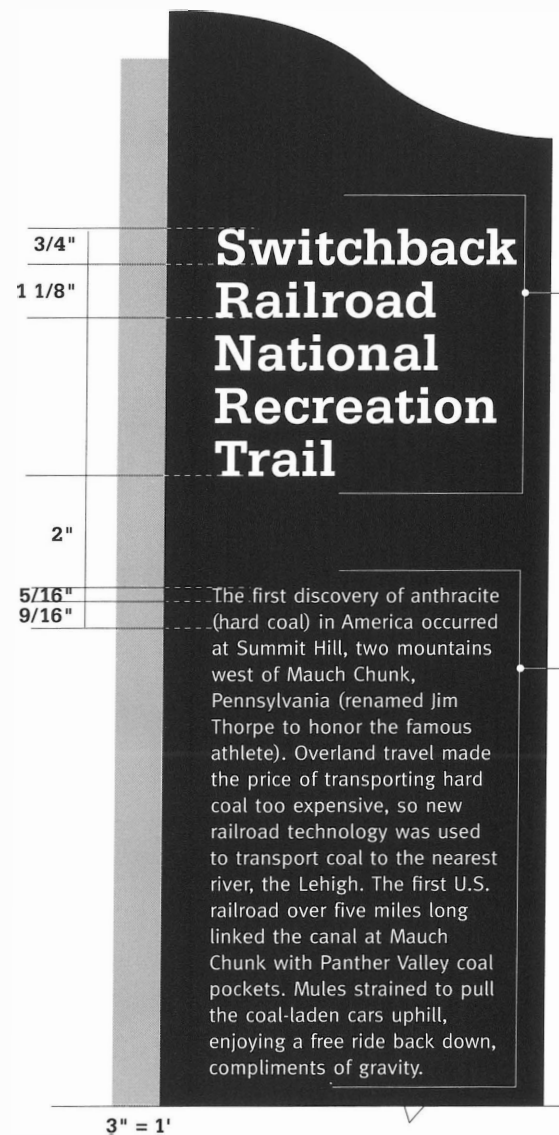
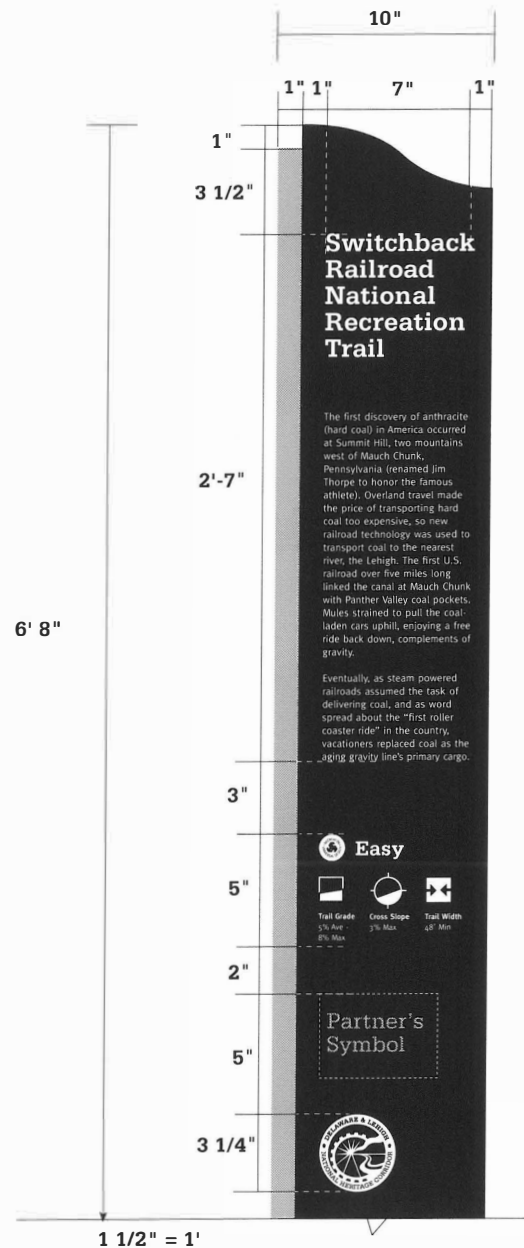
Section of Trailblade
1 1/2" = 1'



DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

SG.5.21

SIGNAGE



type specifications
Serifa Bold 80 points
see page 3.02
leading from baseline to baseline - 80 points
normal kerning
flush left, rag right
column width 36 picas or 6"
column length not to exceed 5 lines
15 1/2 picas or 2 9/16" between last baseline of
headline and first baseline of paragraph

type specifications
Meta Normal 30 points
see page 3.05
leading from baseline to baseline - 39 points
line space of 78 points from baseline to baseline
between paragraphs
normal kerning
flush left, rag right
rag tolerance to be kept within 8-9 picas
with minimum hyphenation
column width 36 picas or 6"
column length not to exceed 96 picas or 16"

Pedestrian Trail Entrance

-Trailblades indicate the beginning of a pedestrian trail. They provide the name and some background information. They also alert the prospective user to the level of difficulty, surface condition, grade and length.

Material & Fabrication

- all signs are one sided
- 1" x 2" solid aluminum support is welded to 5/8" aluminum blade
- all corners and edges ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- blade painted with Matthews acrylic polyurethane satin finish, face and all edges

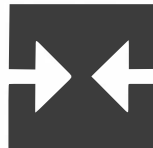
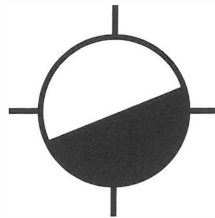
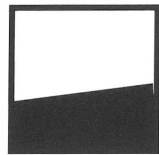
Color

- vertical stripe and edge on left: P2-Matthews LS-60394 (all areas shown as grey)
- blade and support including right side: P1-Matthews LS-52894 (all areas shown as black)
- type and symbols: die cut scotch lite reflective white vinyl

Installation

- post is welded to angle plates which bolt to threaded "J" hooks anchored in concrete
- bolts to be tamper proof
- location to be selected by client representative
- for direct burial approximately 1/3 of blade height in ground or wet concrete

Date	7.95
Title	Pedestrian Trail Entrance
Scale	As noted



NTS- Trail Grade, Cross Slope and Trail Width Symbols



NTS- Trail Difficulty Rating System Symbols
Easy, Moderate, Difficult and Most Difficult



DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

SG.5.23

SIGNAGE

Material & Fabrication

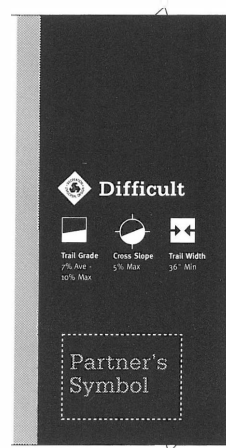
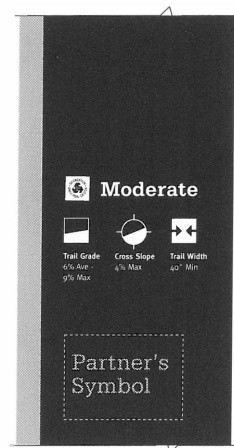
- all signs are one sided
- 1" x 2" solid aluminum support is welded to 5/8" aluminum blade
- all corners and edges ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- blade painted with Matthews acrylic polyurethane satin finish, face and all edges

Color

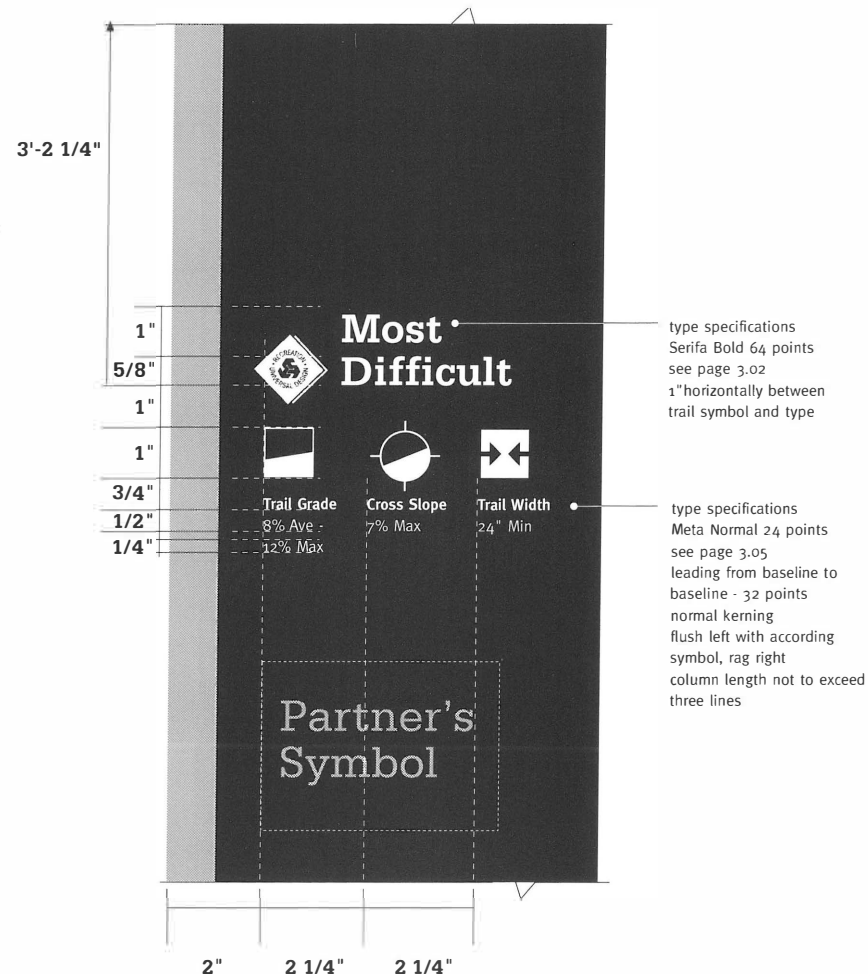
- vertical stripe and edge on left: P2-Matthews LS-60394 (all areas shown as grey)
- blade and support including right side: P1-Matthews LS-52894 (all areas shown as black)
- type and symbols: die cut scotch lite reflective white vinyl

Trail Difficulty Rating System Symbols

- Trail Difficulty Rating System Symbols will be provided by the Corridor Commission



1 1/2" = 1'- Trail Difficulty Levels

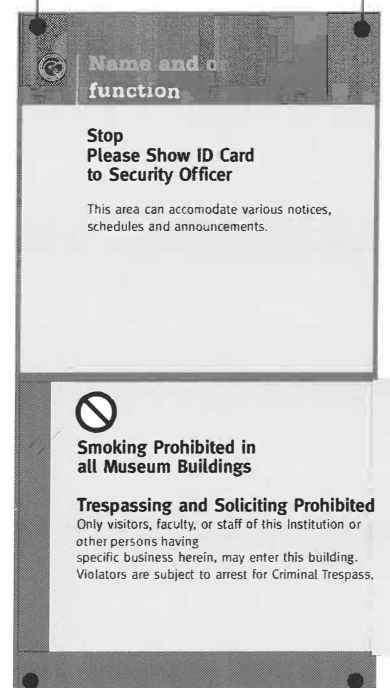


Date	7.95
Title	Pedestrian Trail Entrance
Scale	As noted



SG.5.24

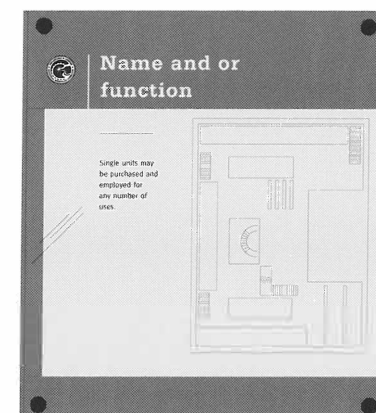
SIGNAGE



Ceiling Suspended



Wall Mounted



Wall Mounted

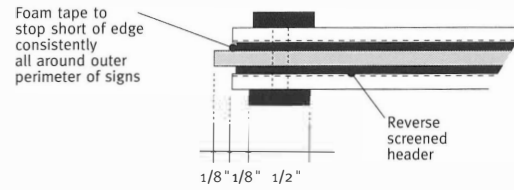
Date	7.95
Title	Changeable Message- Interior
Scale	NTS



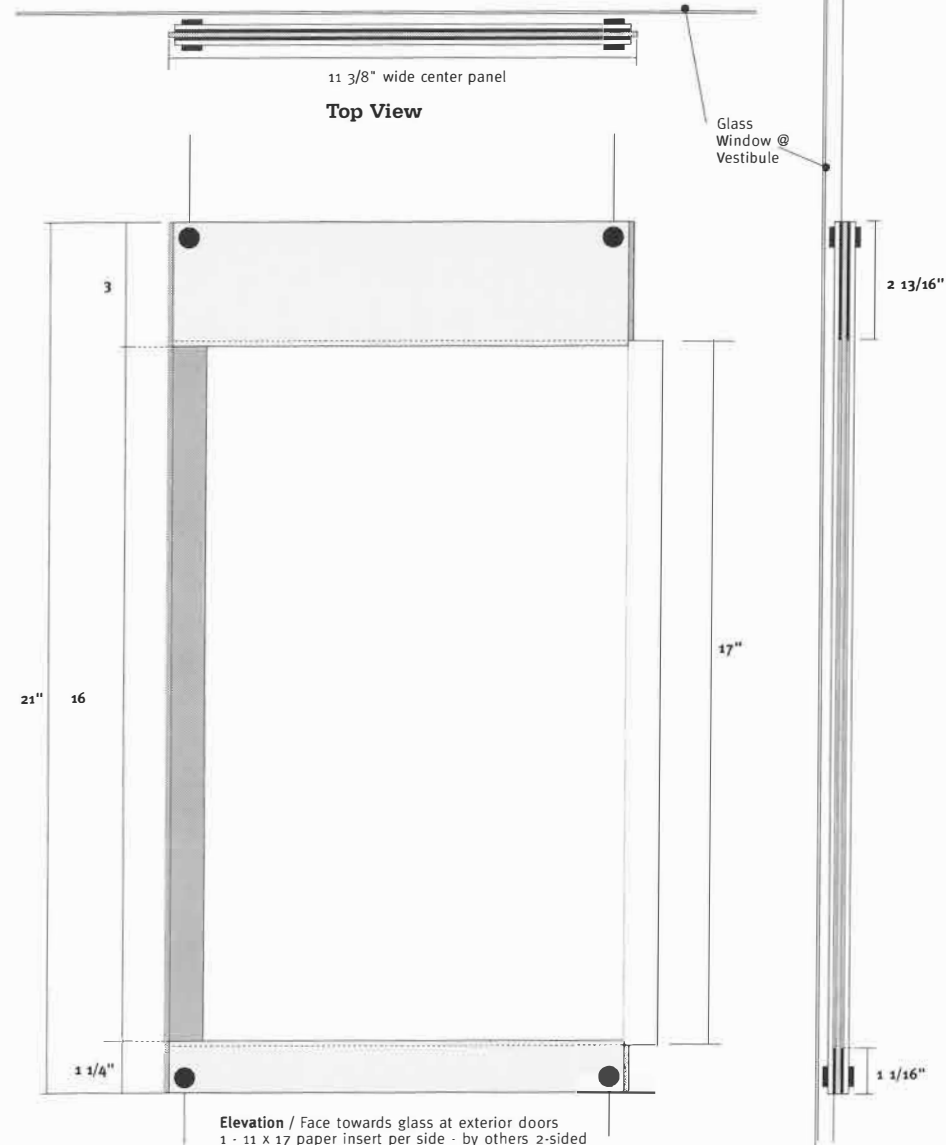
SG.5.25 SIGNAGE

Materials

- outer panels:
 - 1/8" thick Plaskolite Optix TemperElite green tint acrylic
- reverse screen and back paint header, center band and footer as shown
- polish all edges; no saw marks to be visible
- center panel:
 - 1/8" thick clear acrylic, finished so all edges are crisp and square but not sharp to the touch, surface paint front, back and all edges
- Attach outer panels to center panel with foam tape to create pockets.
- Substitute 1/32" thick (versus 1/16" shown) foam tape to create pocket as long as paper inserts can still be inserted and removed with ease. (slimmer profile is desirable)
- Fabricator to provide client with tool or other simple method to make removal/changing of paper inserts as easy as possible.
- disks:
 - 1/2" diameter, 1/8" thick surface painted aluminum disks mechanically fastened through acrylic panels. Must be tamper-proof.



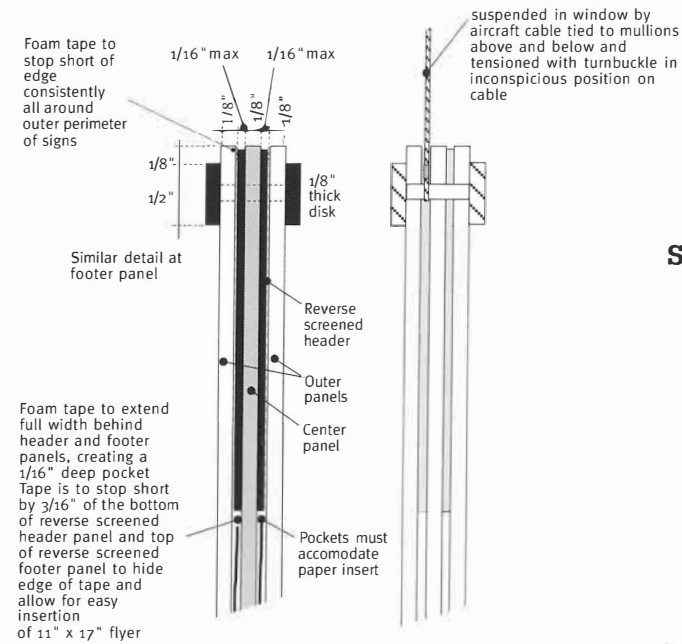
Horizontal Section



Top View

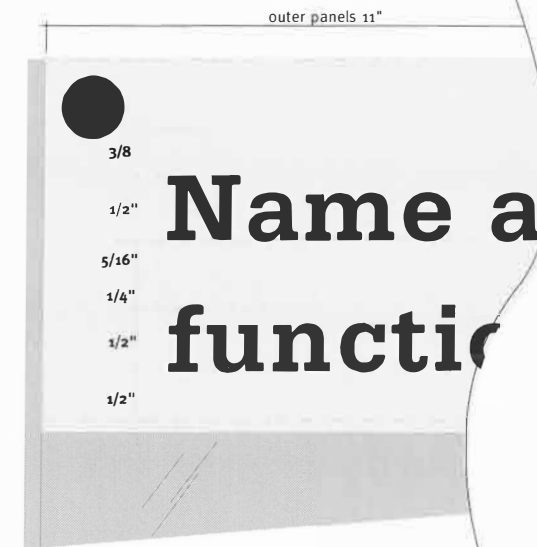
Side View

Elevation / Face towards glass at exterior doors
1 - 11 x 17 paper insert per side - by others 2-sided



Side View

Section



Detail/Header

Date	7.95
Title	Changeable Message- Interior
Scale	NTS



SG.5.23

S I G N A G E

SCHEDULE OF ADDITIONAL SIGNAGE ELEMENTS

Type	Description	Drawing Number
Directional Post	Single sided aluminum blade used for directing trail users to destinations and providing mileage information.	SG.5.25
Identification Alternate	Single sided aluminum blade used to announce the name of the site or institution and provide information to the general public about schedule and regulations.	SG.5.27
River Trail Markers	Single sided Sintra panels used to indicate access points, portage points and hazards along river trails.	SG.5.30
Multipurpose Sign	18" wide x 22" high sign that can be utilized in many ways, including but not limited to site specific messages, cyclist specific messages and trail user etiquette.	SG.5.35
Low Clearance Sign	A sign that is to be placed primarily on bridges in order to warn trail users about low clearance.	SG.5.38
Mile Marker	A small sign that can be placed on a variety of surfaces to indicate overall mileage from destinations.	SG.5.39



SG.5.24

SIGNAGE

Directional Post SG.5.25	Identification Alternate SG.5.29	Access Point Marker SG.5.31	Hazard Marker SG.5.32	Portage Point Marker SG.5.33	Multipurpose Sign SG.35	
						Date 7.01
						Title Signage Additions - Overview
						Scale 3/4" = 1'



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SG.5.25

SIGNAGE

- Directional Post**
- Directional posts are placed along the trail to indicate direction and distance to locations and sites.
 - Trail partner logos are also located on this sign.
 - Each sign can carry a maximum of four locations.
 - Specifications have been repeated on pages SG.5.26 and SG.5.27 so that individual pages can be excerpted from the manual for convenient use.

Date	7.01
Title	Directional Post
Scale	1" = 1'



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SG.5.26

SIGNAGE

Material & Fabrication

- signs can be single sided only but must be finished on all surfaces
- 6" aluminum vertical support channel with welded 3/8" thick aluminum bottom plate (6" x 6") and 3/16" thick top cap (fit to channel)
- drill & countersink holes in sides of channel for 1/4-20 flat head bolts to secure graphic blade to open face of channel
- weld 1/2" x 3/4" aluminum strips to back of graphic blade, drill & tap for bolts inserted through sides of channel
- all corners and edges to be ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- all surfaces and edges painted with Matthews acrylicpolyurethane satin finish

Message Hierarchy

- see SG.5.04 for details

Color

- aluminum blank, aluminum channel and bottom plate : P2-Matthews LS-52894 satin
- type, arrows and logos: die cut Scotchlite reflective white vinyl

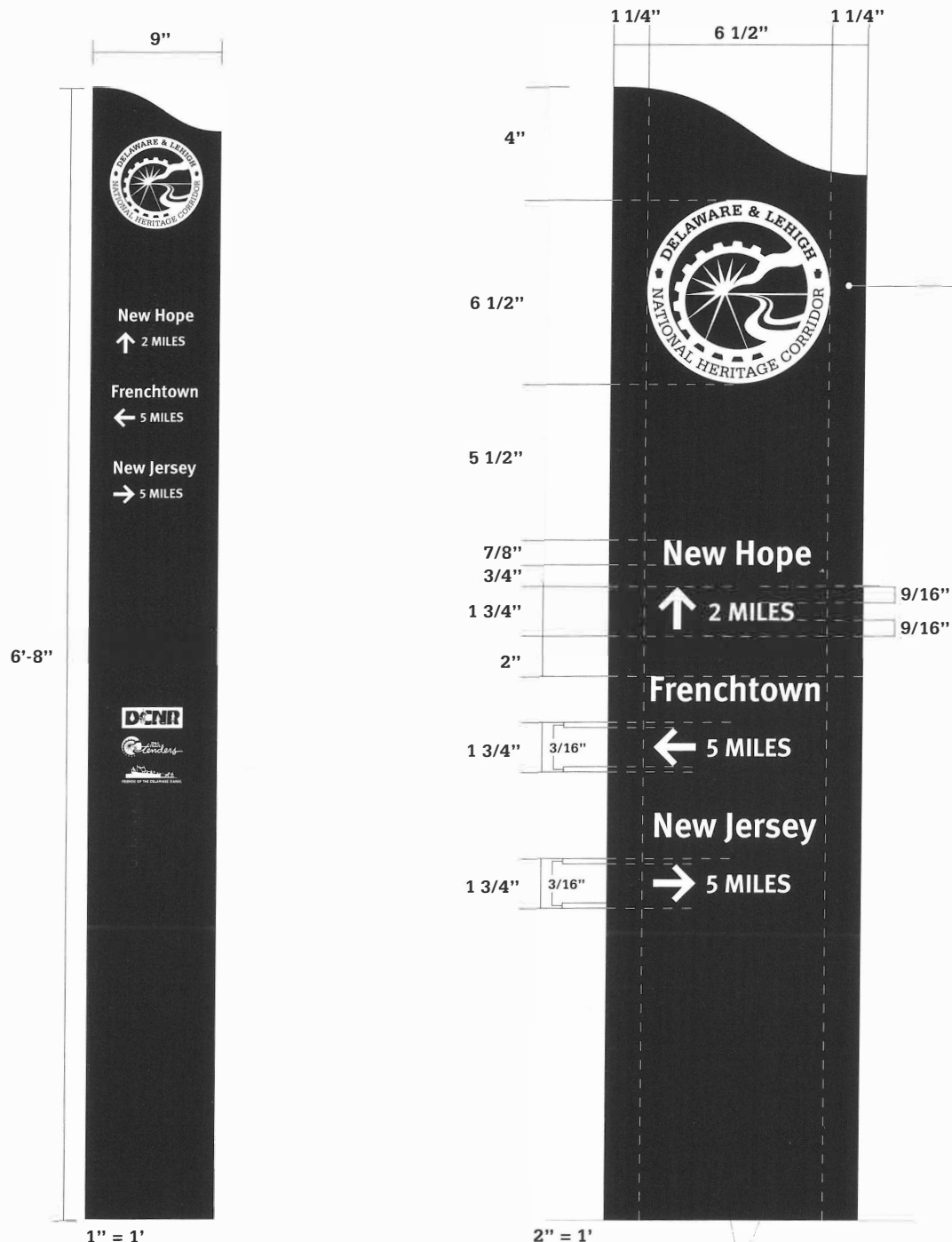
Installation

- aluminum channel is welded to a plate which bolts to threaded anchor bolts embedded in concrete
- graphic blade is fastened to open face of channel with flat head tamper proof bolts (through sides of channel)
- size of concrete footing to conform to local building codes
- location to be selected by client representative

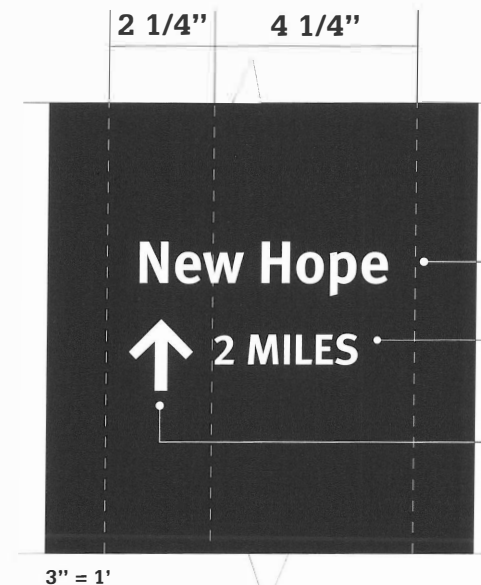
Date **7.01**

Title **Directional Post - detail**

Scale **As noted**



Corridor logo is 6 1/2" x 6 1/2"
centered left to right on overall panel





SG.5.28

SIGNAGE

Material & Fabrication

- signs can be single sided only but must be finished on all surfaces
- 6" aluminum vertical support channel with welded 3/8" thick aluminum bottom plate (6" x 6") and 3/16" thick top cap (fit to channel)
- drill & countersink holes in sides of channel for 1/4-20 flat head bolts to secure graphic blade to open face of channel
- weld 1/2" x 3/4" aluminum strips to back of graphic blade, drill & tap for bolts inserted through sides of channel
- all corners and edges to be ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- all surfaces and edges painted with Matthews acrylicpolyurethane satin finish

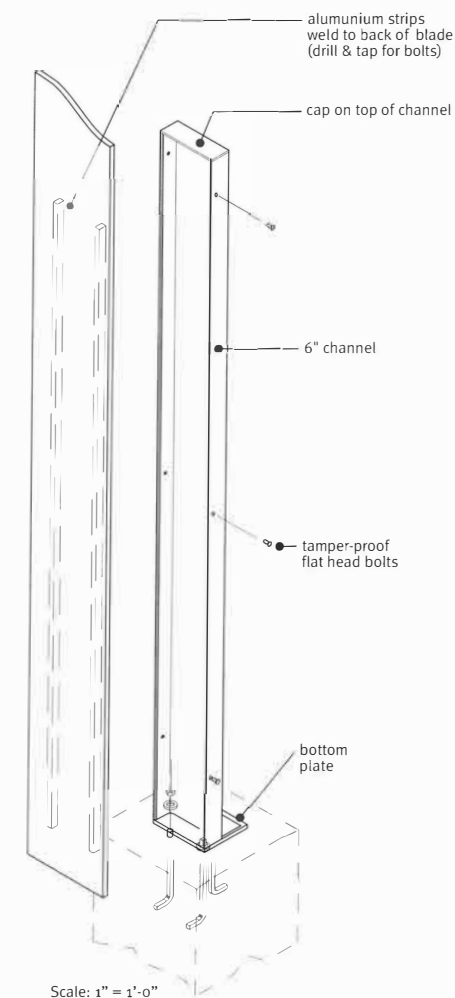
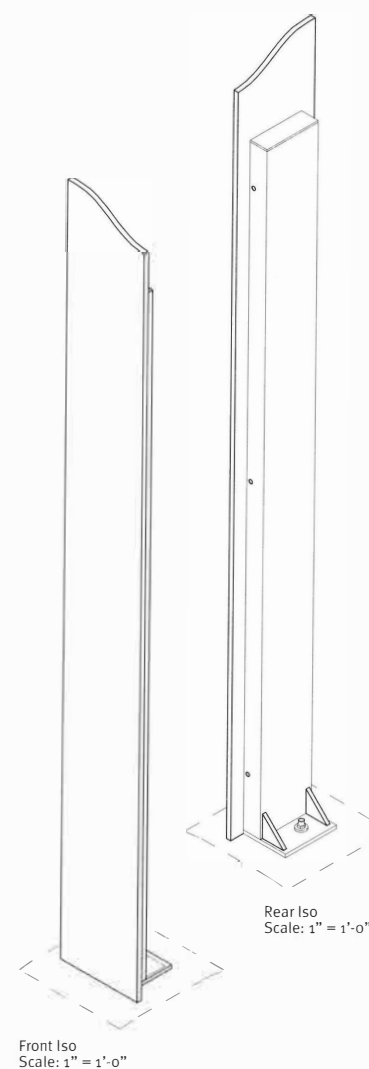
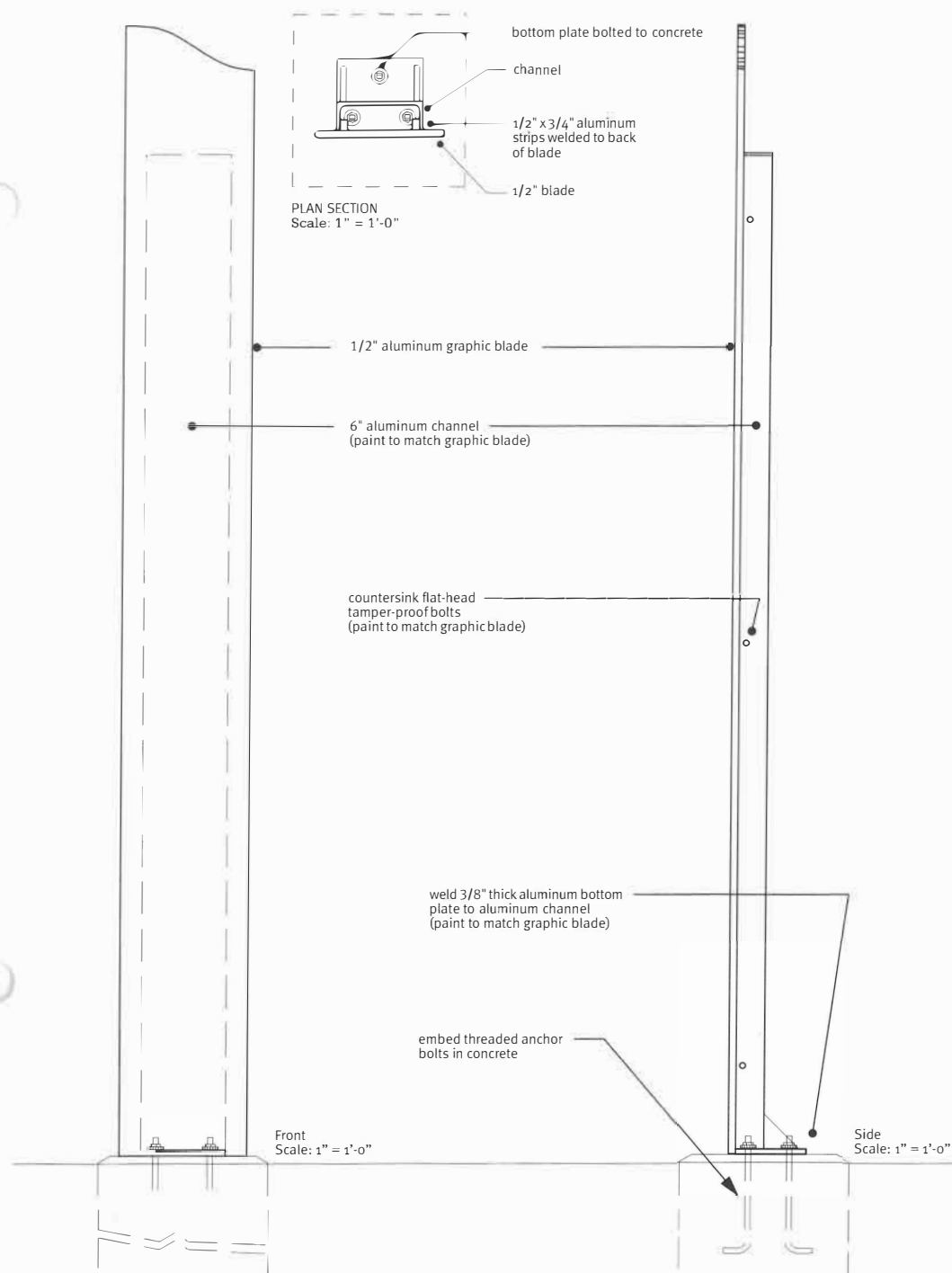
Color

- aluminum blank, aluminum channel and bottom plate : P2-Matthews LS-52894 satin
- type, arrows and logos: die cut Scotchlite reflective white vinyl

Installation

- aluminum channel is welded to a plate which bolts to threaded anchor bolts embedded in concrete
- graphic blade is fastened to open face of channel with flat head tamper proof bolts (through sides of channel)
- size of concrete footing to conform to local building codes
- location to be selected by client representative

5



Date

7.01

Title

Directional Post construction Details

Scale

As noted



SG.5.29 SIGNAGE

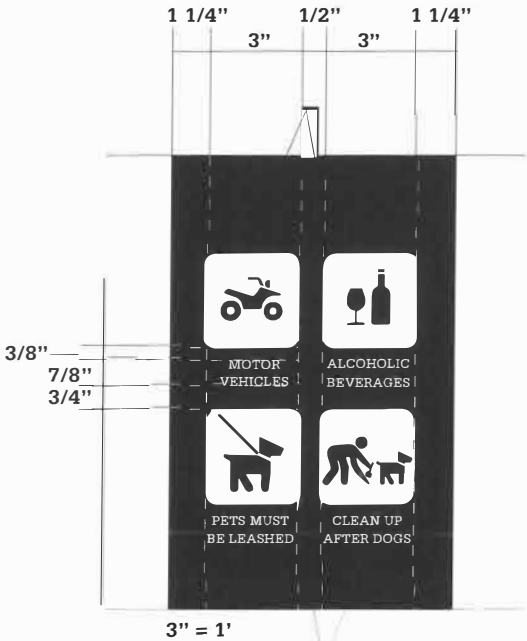
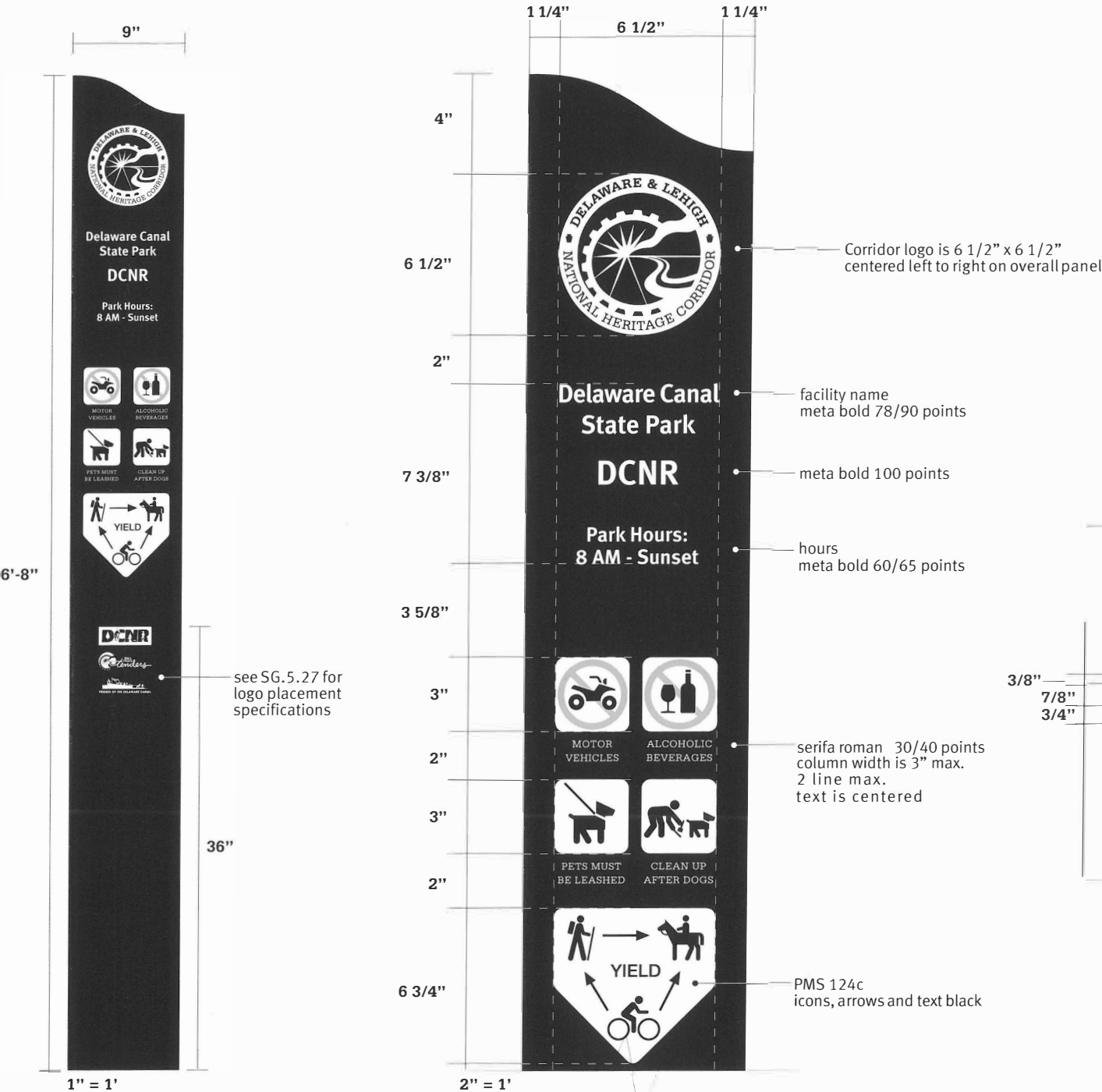
- Material & Fabrication**
- signs can be single sided only but must be finished on all surfaces
 - 6" aluminum vertical support channel with welded 3/8" thick aluminum bottom plate (6" x 6") and 3/16" thick top cap (fit to channel)
 - drill & countersink holes in sides of channel for 1/4"-20 flat head bolts to secure graphic blade to open face of channel
 - weld 1/2" x 3/4" aluminum strips to back of graphic blade, drill & tap for bolts inserted through sides of channel
 - all corners and edges to be ground smooth before painting
 - finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
 - all surfaces and edges painted with Matthews acrylicpolyurethane satin finish

- Message Hierarchy**
- see SG.5.04 for details

- Color**
- aluminum blank, aluminum channel and bottom plate : P2-Matthews LS-52894 satin

- Installation**
- aluminum channel is welded to a plate which bolts to threaded anchor bolts embedded in concrete
 - graphic blade is fastened to open face of channel with flat head tamper proof bolts (through sides of channel)
 - size of concrete footing to conform to local building codes
 - location to be selected by client representative

Date	7.01
Title	Alternate Identification
Scale	As noted





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SG.5.30

SIGNAGE

River Trail Markers

- These signs are placed on the river banks in order to aid trail users in navigation. They are intended to be low cost and easily replaced.



Next Access Point:
8 Miles

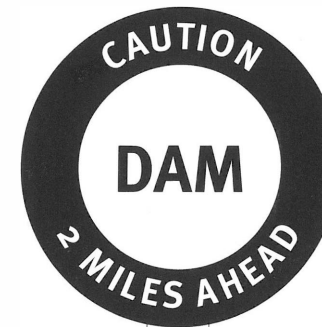


Access Point Marker
w/ Hazard Marker



Portage

Portage Point Marker



Hazard Marker

Date 7.01

Title River Trail Markers

Scale 1" = 1'



SG.5.31

SIGNAGE

Materials & Fabrication

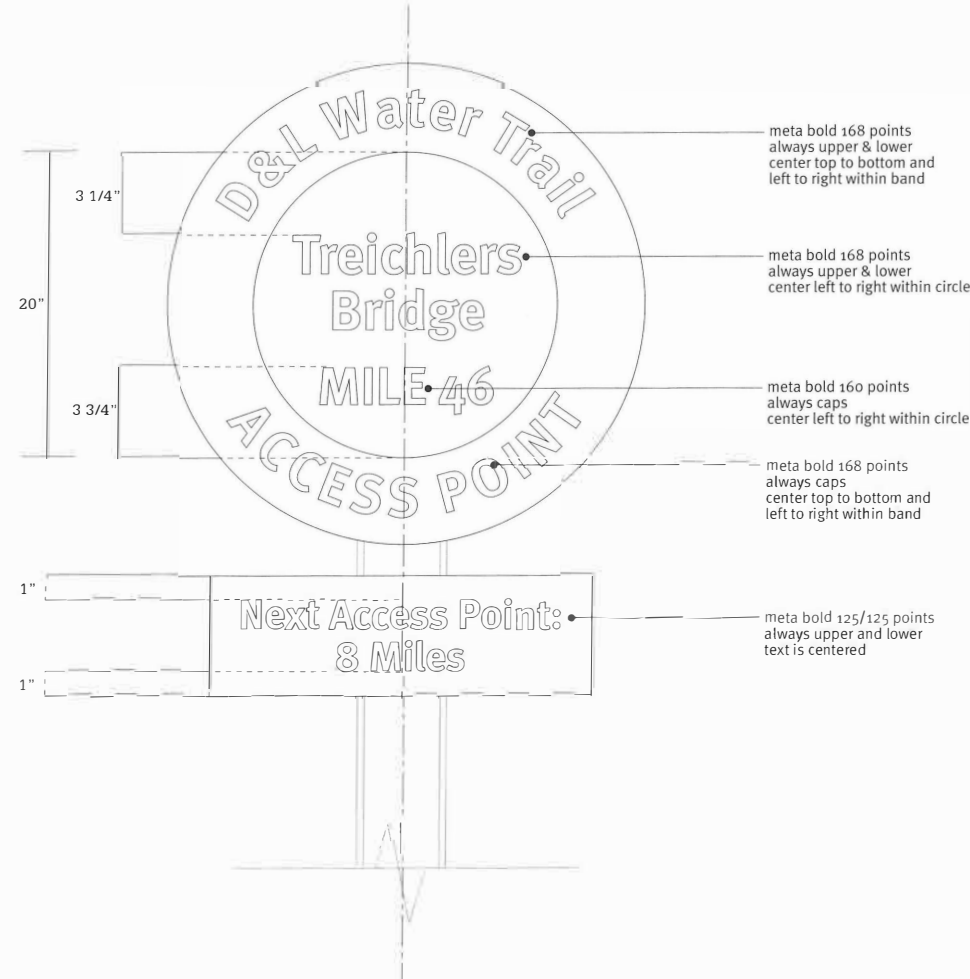
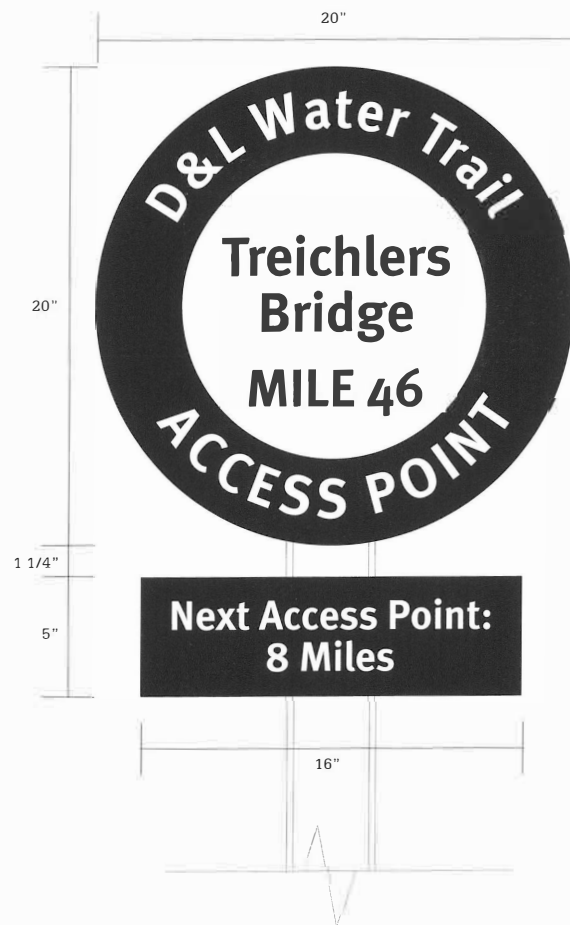
- all signs are one sided
- use Carsonite flexible sign support post (white)
- exact length of post to be determined by site
- sign blank is 1/4" Sintra (color as noted)

Color

- background color is color of the Sintra blank: blue
- all areas shown in white: die cut Scotchlite reflective white vinyl

Installation

- locations to be verified by fabricator and client representative





SG.5.32

SIGNAGE

Materials & Fabrication

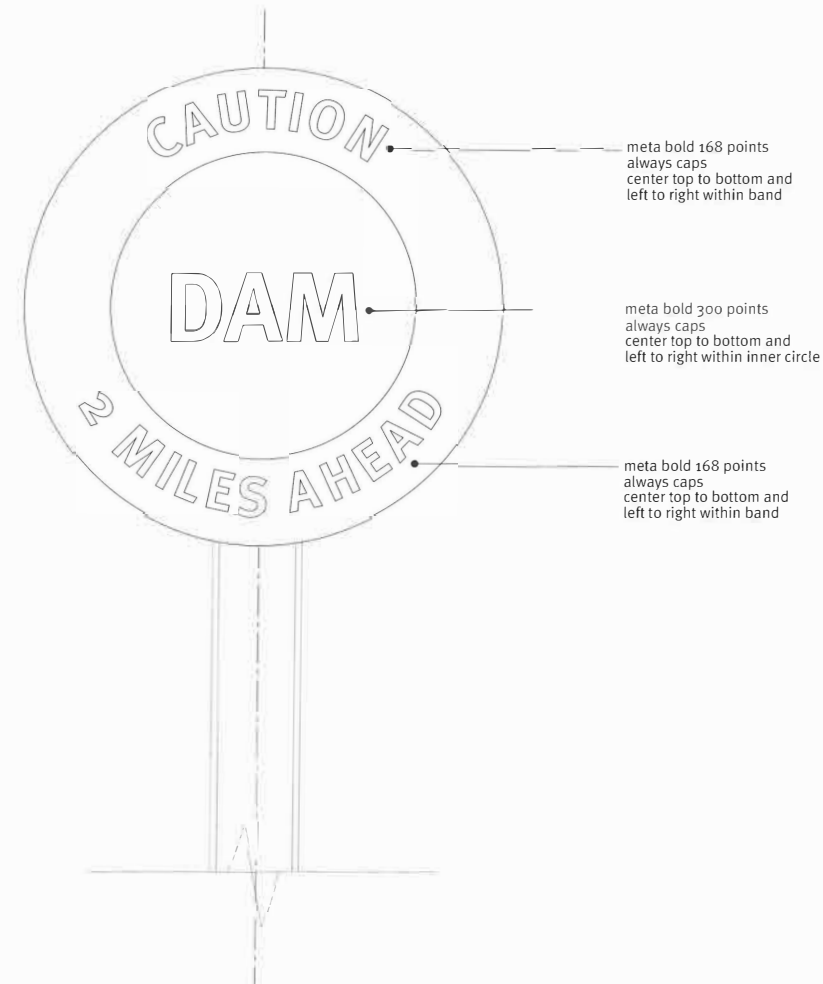
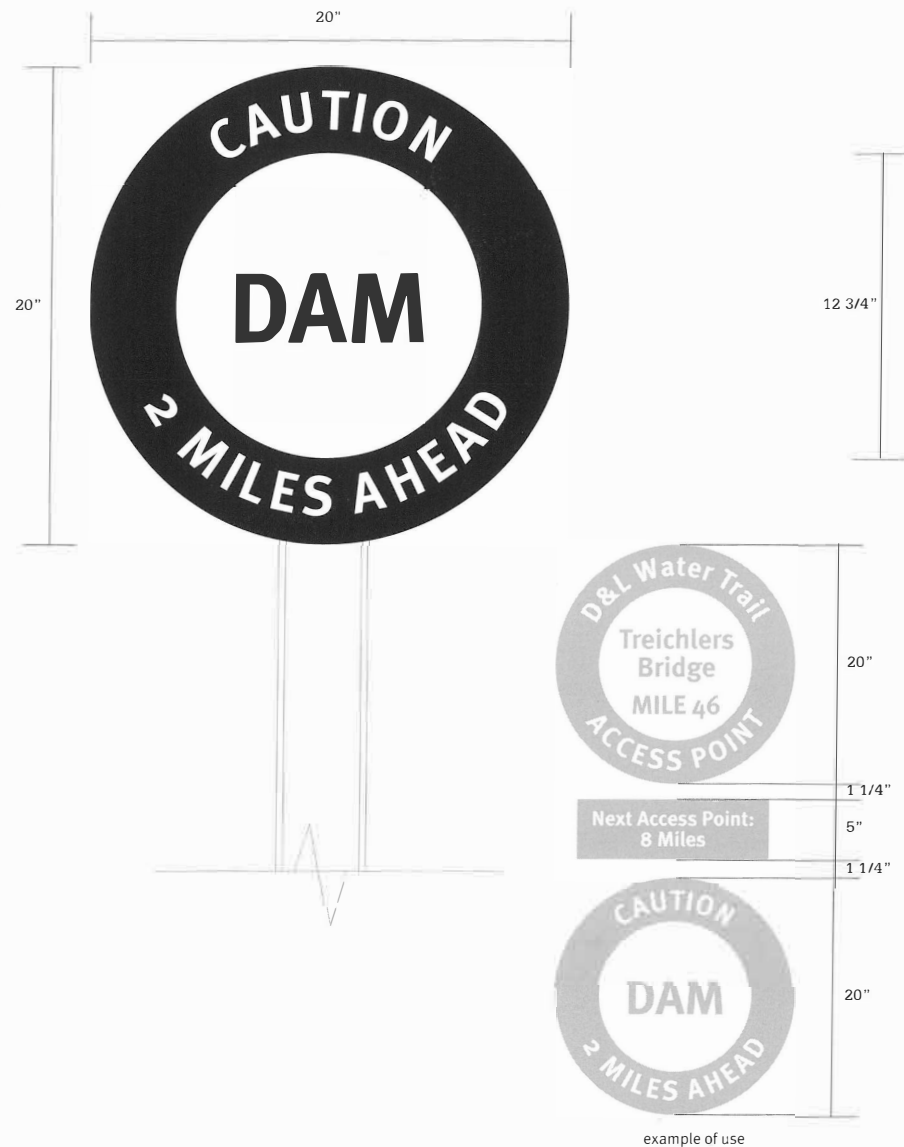
- all signs are one sided
- use Carsonite flexible sign support post (white)
- exact length of post to be determined by site
- sign blank is 1/4" Sintra

Color

- background color is color of the Sintra blank: red
- all areas shown in white: die cut Scotchlite reflective white vinyl

Installation

- warning markers can be installed as individuals signs or added to access point markers
- locations to be verified by fabricator and client representative



Date	7.01
Title	River Trail Marker - Hazard
Scale	1 1/2" = 1'



SG.5.33

SIGNAGE

Materials & Fabrication

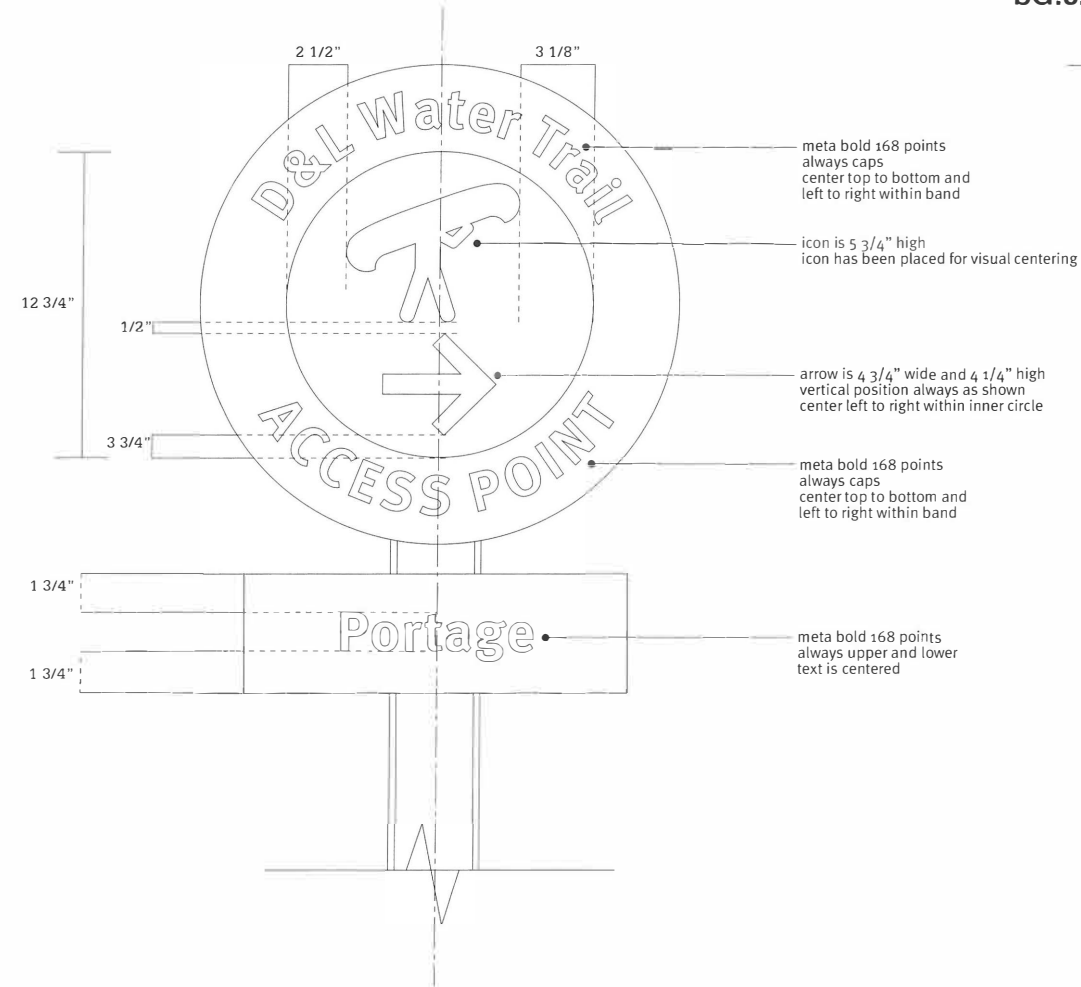
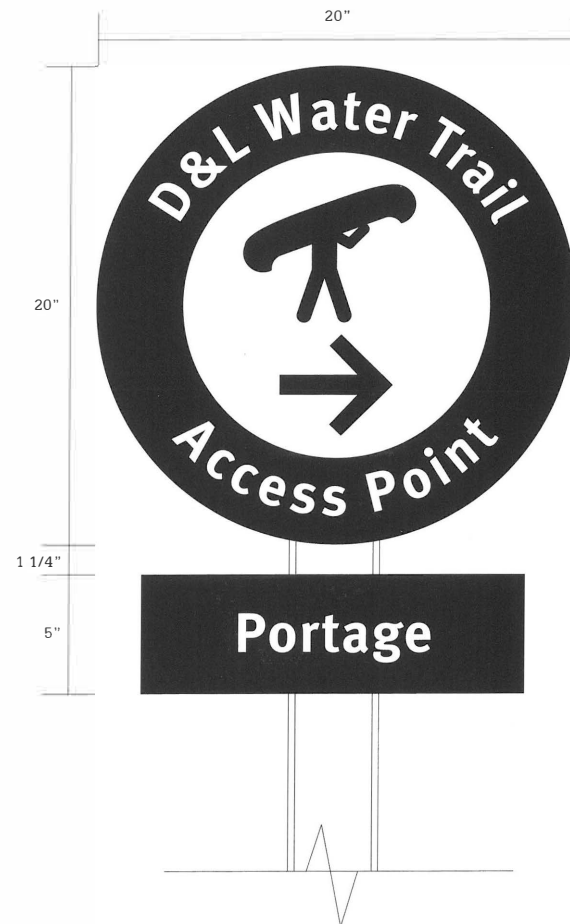
- all signs are one sided
- use Carsonite flexible sign support post (white)
- exact length of post to be determined by site
- sign blank is 1/4" Sintra

Color

- background color is color of the Sintra blank: blue
- all areas shown in white: die cut Scotchlite reflective white vinyl

Installation

- portage markers can be installed as individual signs or added to access point markers
- may be installed individually, as needed, for river to canal loops and canal lock and dam portages
- locations to be verified by fabricator and client representative



Date	7.01
Title	River Trail Marker - Portage
Scale	1 1/2" = 1'-0"



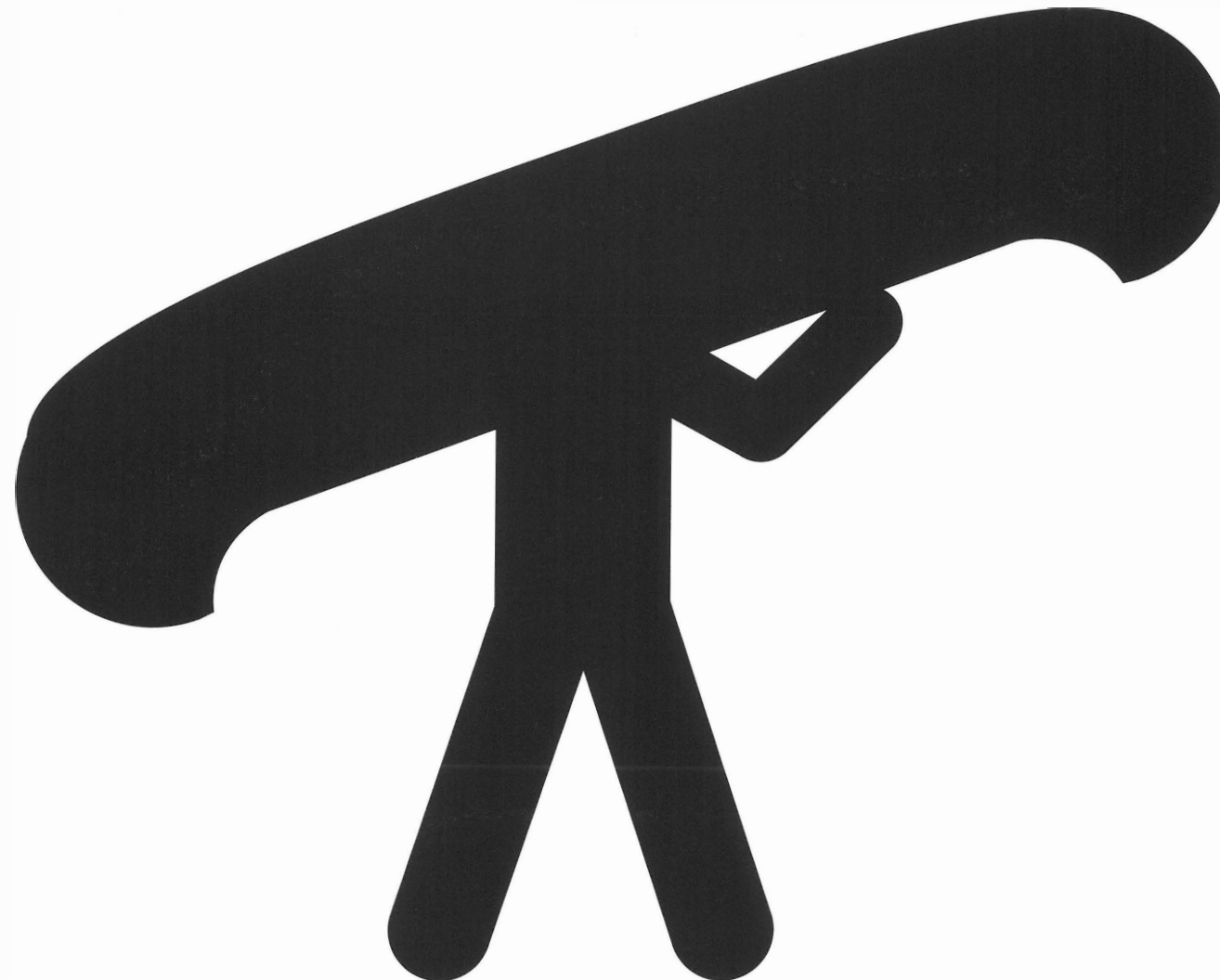
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SG.5.34

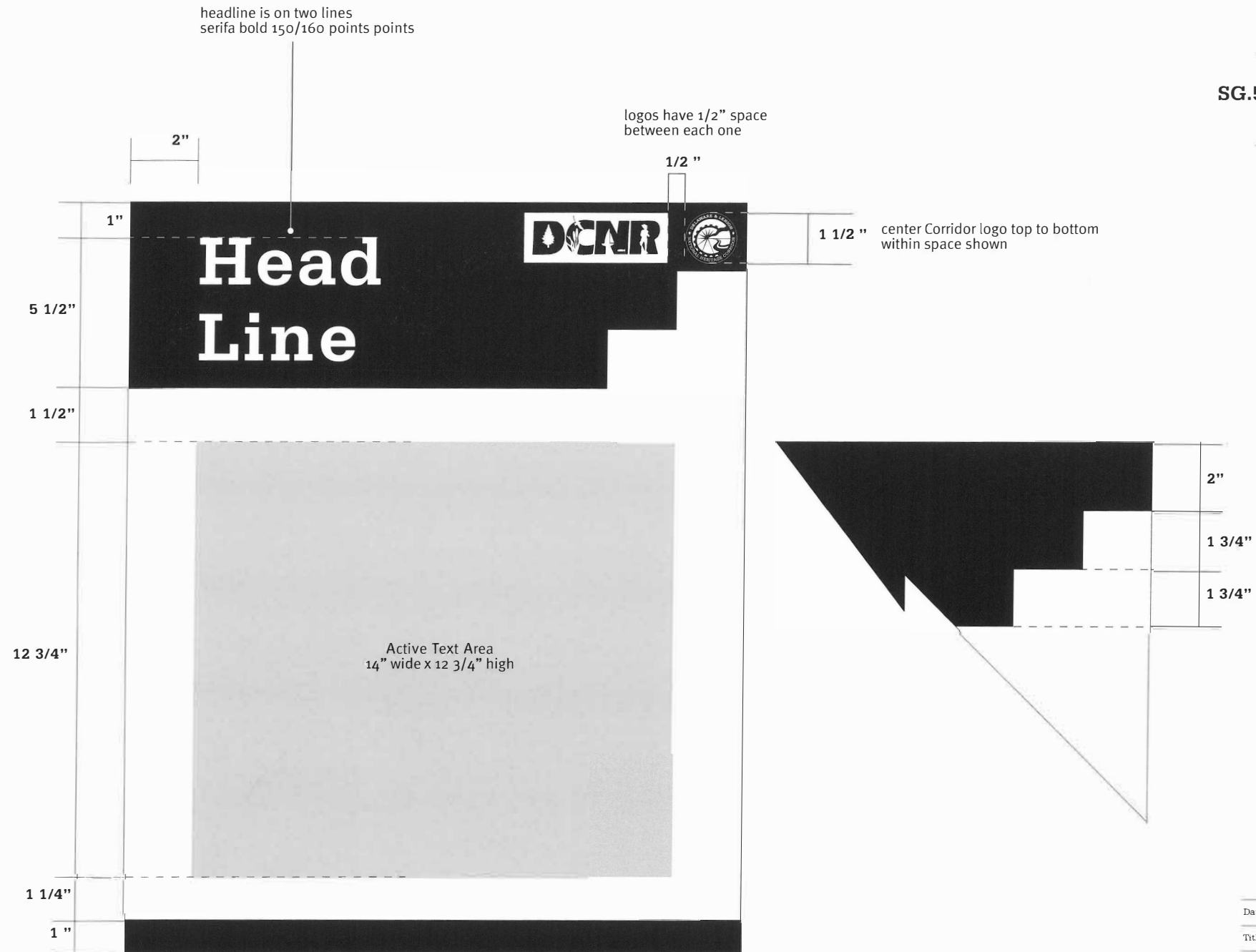
S I G N A G E

Artwork

This portage symbol is not found in standard symbol libraries. An electronic version was not found. This artwork has been provided for scanning purposes.



Date	7.01
Title	Portage Symbol for scanning
Scale	N/A



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SG.5.35

S I G N A G E

Materials & Fabrication

- all signs are one sided

Color

- P3 = PMS 208 maroon (areas shown in black)
- P6 = white (headline and logos)
- P9 = PMS4535 (background)

Installation

- locations and content to be verified by fabricator and client representative

Date

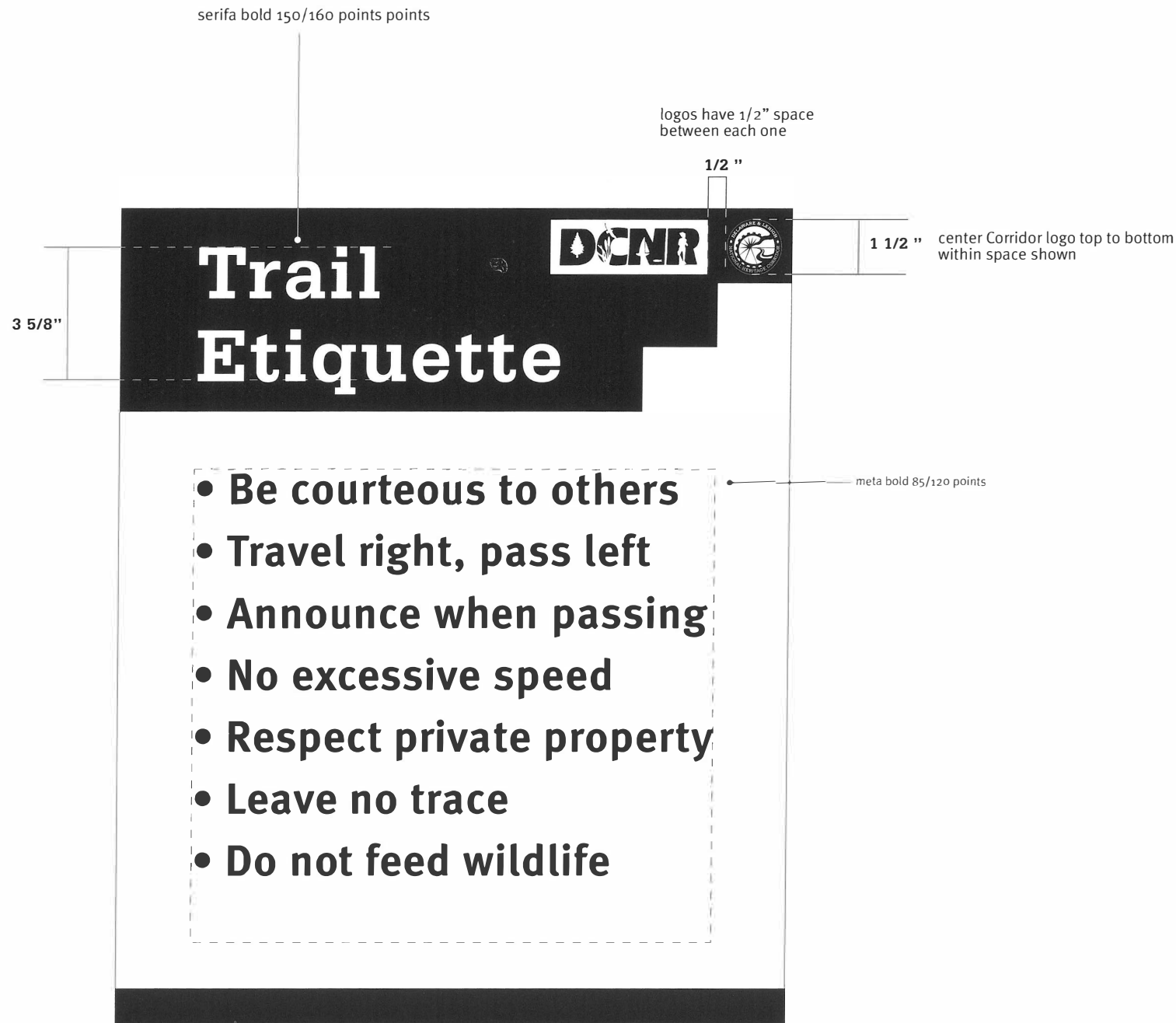
7.01

Title

Multipurpose sign

Scale

3" = 1'



SG.5.36

S I G N A G E

Materials & Fabrication

- all signs are one sided

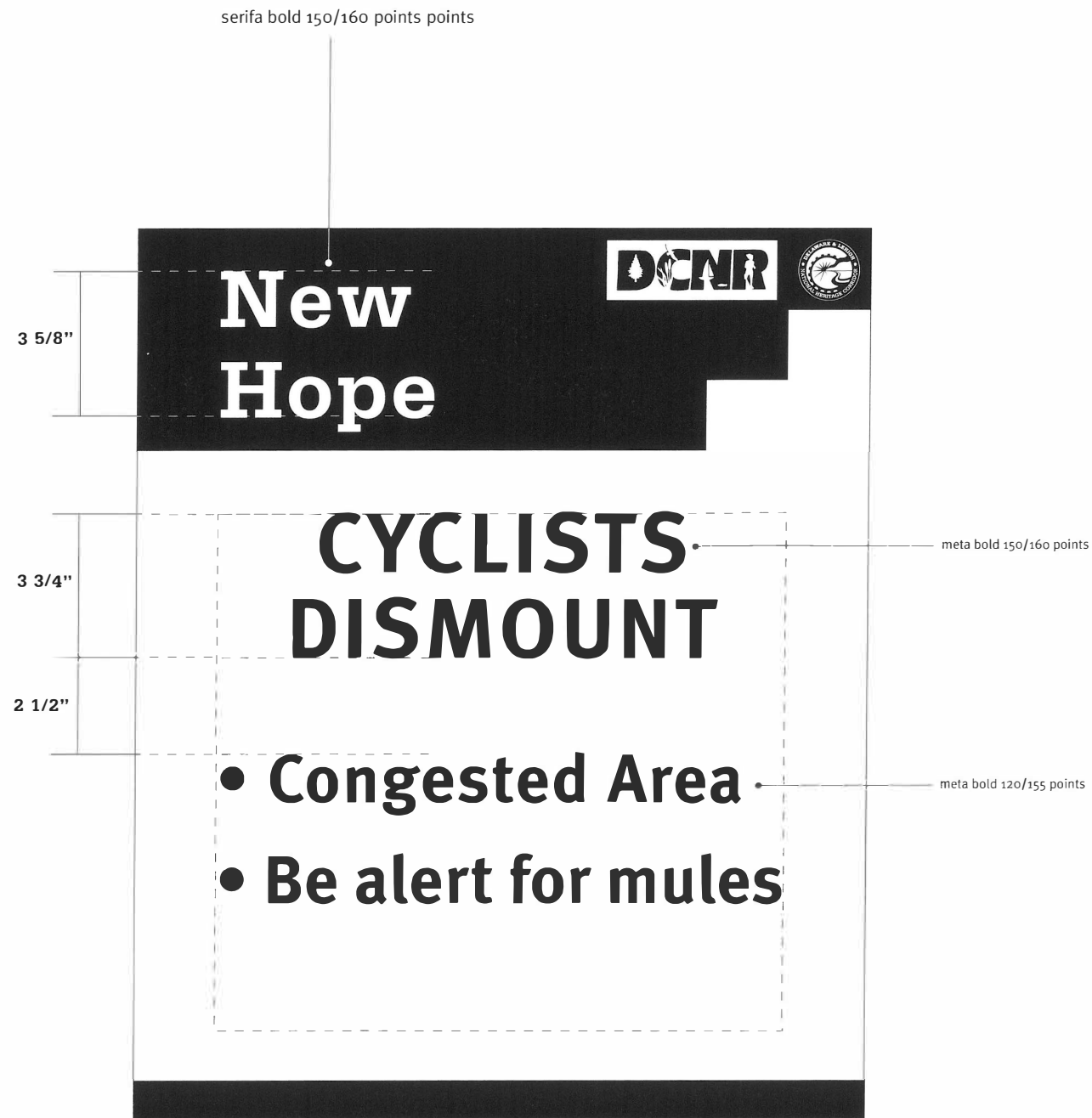
Color

- P3 = PMS 208 maroon (areas shown in black)
- P6 = white (headline and logos)
- P9 = PMS4535 (background)

Installation

- locations and content to be verified by fabricator and client representative

Date	7.01
Title	Multipurpose sign - example
Scale	3" = 1'



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SG.5.37

S I G N A G E

Materials & Fabrication

- all signs are one sided

Color

- P3 = PMS 208 maroon (areas shown in black)
- P6 = white (headline and logos)
- P9 = PMS4535 (background)

Installation

- locations and content to be verified by fabricator and client representative

Date

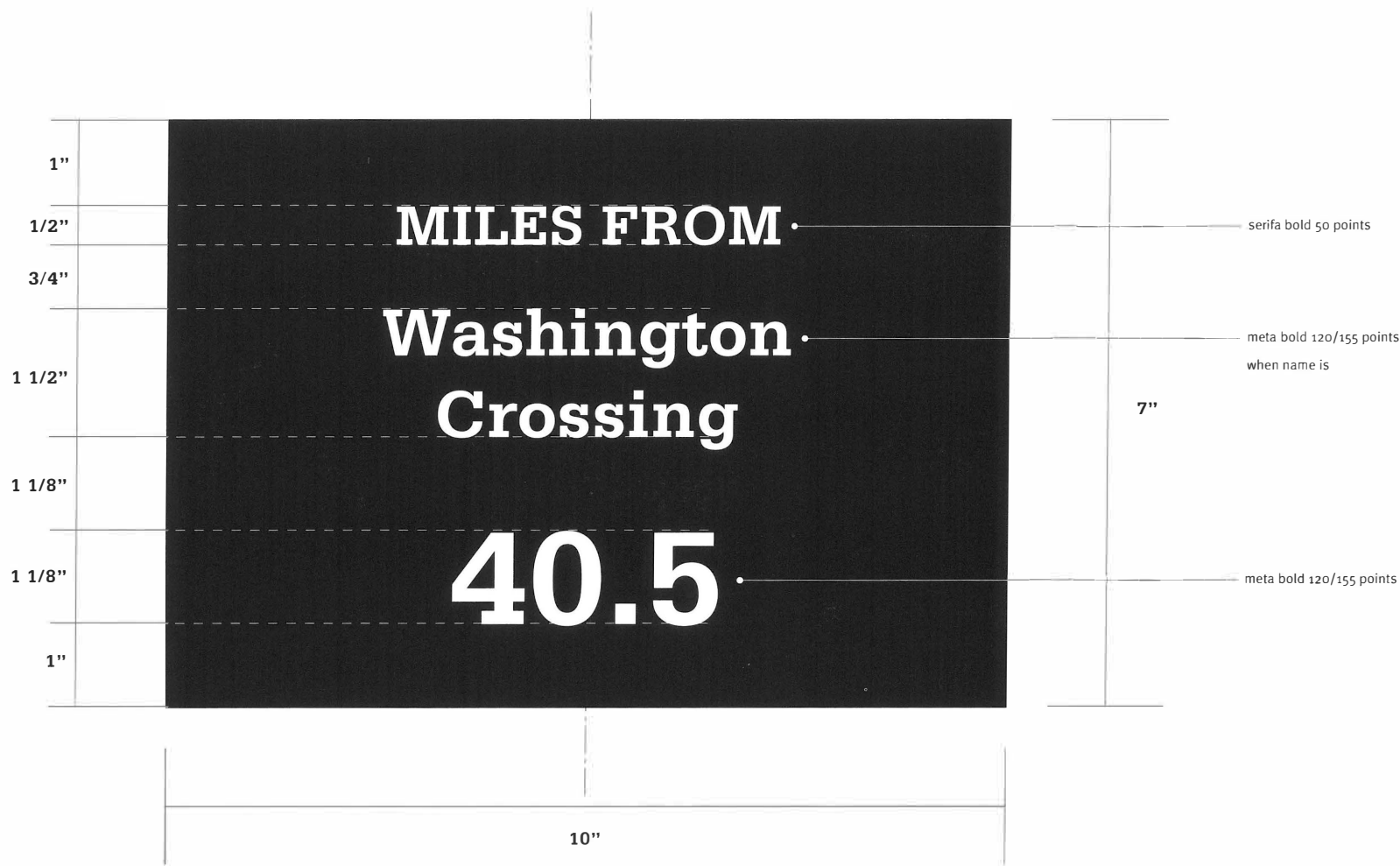
7.01

Title

Multipurpose sign - example 2

Scale

3" = 1'



SG.5.39

S I G N A G E

Materials & Fabrication

- all signs are one sided
- all corners and edges ground smooth before painting
- fabrication is reflective Scotchprint applied to 1/8" aluminum blanks
- Scotchprint is recommended for the low cost of replacement in case of damaged graphics

Color

- P3 = PMS 208 maroon (areas shown in black)
- P6 = white (text)

Installation

- locations and content to be verified by fabricator and client representative
- signs to be attached to surface using tamper proof bolt fasteners or other appropriate method
- mounting method to be determined based on each installation situation

Date 7.02

Title Mile marker

Scale 6" = 1'



DG.6.01

DISPLAY

SCHEDULE OF DISPLAY MODULES

Type	Description	Drawing Number
Wayside - High Profile	Upright single or multiple outdoor interpretive display, each panel containing an embedded fiberglass panel 36"x 48" tall.	DG.6.02
Wayside - Low Profile	Single sided outdoor waist high interpretive display containing an embedded fiberglass panel 24"x 18" or 36"x 24" tall.	DG.6.16
Orientation Directory	Three panel triangle orientation display; each side contains an embedded fiberglass panel with dimensions 36"x 48" tall. Panel one contains the Corridor-wide introduction and map. Panel two contains an introduction to a section (Reach) of the Corridor including adjacent Reaches and corresponding map information. The third panel contains information and related imagery about the specific location. In place of the site specific panel a bulletin display case may be used. All specifications for the components described above are contained in the High Profile section described above.	

All themes, text, captions, imagery, artwork, photography, maps or diagrams necessary to the design and execution of these exhibits, and any coordination or research required to generate the above mentioned items, are to be provided by the Corridor Commission or individual partners.



DG.6.02

DISPLAY

High Profile Panels

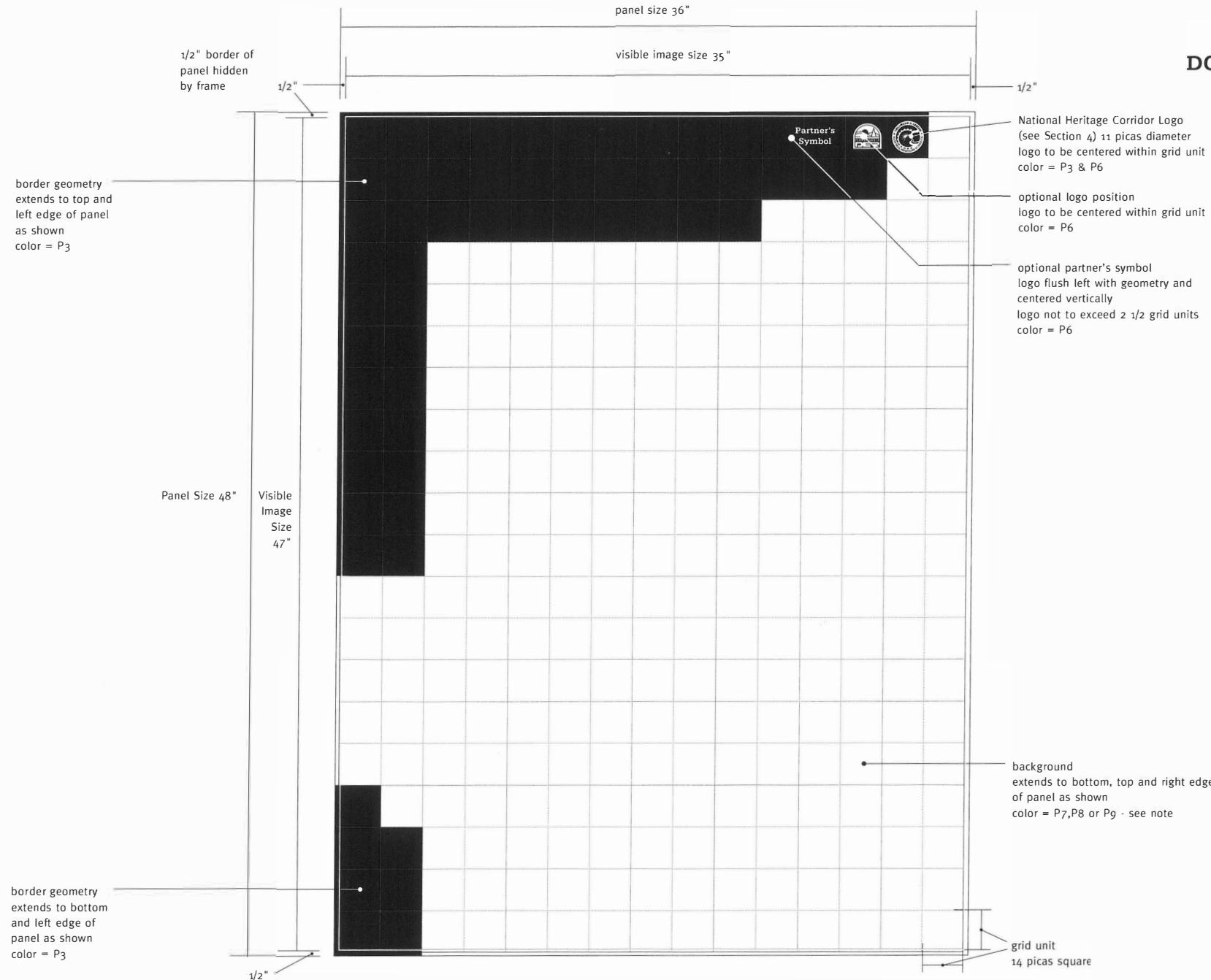
-High Profile Panels provide information/ education in areas where they do not compete with the "real thing." Examples: high traffic areas where the Low Profile delivery system (page DG.6.15) would block traffic; high traffic areas where you want more than one focal point for visitors; a series of billboards for effect; entries into interpretive areas needing an introduction; when more space is needed for graphics than fit nicely into a low profile system; and when closing a trail you wish to reclaim by either blocking entry with panels of interpretive information or seeking cooperation and support in your efforts. It is imperative that this exhibit sign does not block or compete with the view of the primary resource. We have provided a choice of panel configurations and a number of panels for your selection.

Date	7.95
Title	Wayside High Profile Panel
Scale	3/4" = 1'-0"



DG.6.03

DISPLAY



Panel Details

- panel size is 48" tall by 36" wide
- live image size is 47" tall by 35" wide
- grid unit is 14 picas square
- client to select logos for optional logo positions
- all other elements on the page are permanent design elements and may not be manipulated in any way

Color

- P₃ = PMS 208 - maroon
- P₅ = PMS black
- P₆ = white
- P₇ = background 1 - PMS 5305
- P₈ = background 2 - PMS 5503
- P₉ = background 3 - PMS 4535

Background Color

- either P₇, P₈ or P₉ may be used as a background color on the high profile panels.
- the color of the headline text (see page DG.6.05) should always match the color chosen for the background of that panel.

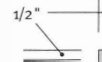
Date	7.95
Title	Wayside High Profile Grid
Scale	1 1/2" = 1'-0"



DG.6.04

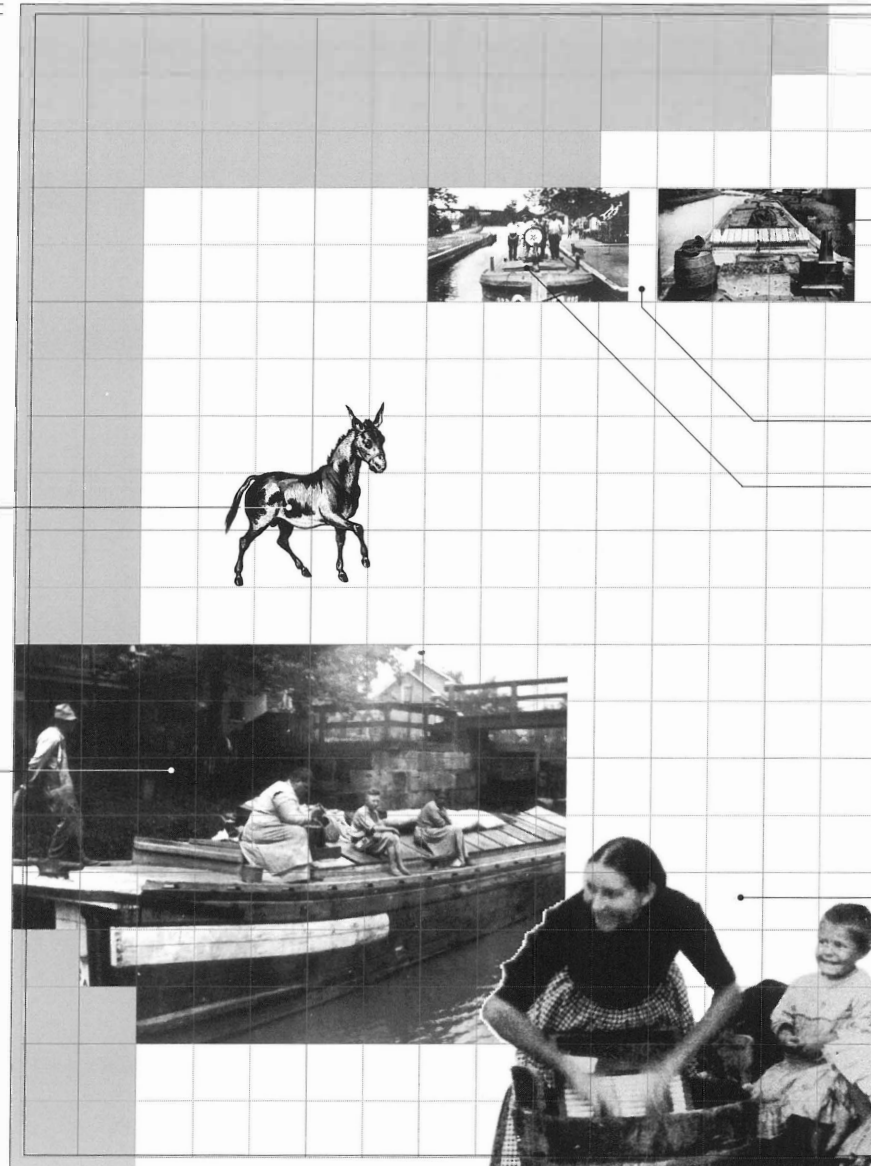
DISPLAY

1/2" border of
panel hidden
by frame



engraved or line illustration reversed
out of background color
image not to exceed 4 grid units square
image may be rotated up to 20 degrees
(see 6.06-6.08 for variations)
color = P6

main photograph
7 grid units tall, visible width may vary
from 9 1/2 to 11 grid units.
(see 6.06-6.08 for variations)
photograph must be flush left with
border element.
color = P5



photograph
2 grid units tall by 3 1/2 grid units wide
color = P3
if optional photograph is not used this
photograph may be enlarged to 2 1/2 x
4 grid units to expand 1/2 grid unit to
the top and left

1/2 grid space between photographs

optional photograph
(see 6.06 for variation)
2 grid units tall by 3 1/2 grid units wide
color = P3

silhouetted image
(see 6.06-6.08 for variations)
image reverses out of main photograph
and background color
image area not to exceed that of the
main photograph.
color = P3

Panel Details

-all elements that extend to the edges of the
image area must also bleed off of the panel
-all elements on the page are prototypical and
must be approved by client

Images

-all photographs and line art reverse out of
background color.
-traps and fits to be minimal in order to prevent
white showing through.

Color

-P3 = PMS 208 - maroon
-P5 = PMS black
-P6 = white
-P7 = background 1 - PMS 5305
-P8 = background 2 - PMS 5503
-P9 = background 3 - PMS 4535

Date	7.95
Title	Wayside High Profile Image
Scale	1 1/2" = 1'-0"



DG.6.05

DISPLAY

headline
serifa bold 170/167 points
column width not to exceed 7 1/2 grid units
or 105 picas.
see page 3.05 for spacing
type to reverse out of border element color
P3 (see 6.06-6.08 for variations)
color = P7, P8 or P9
see note on DG.6.03

quote
serifa italic 24/45 points
column width 3 1/2 grid units or 49 picas
quote text not to exceed 1 1/2 grid units
or 21 picas vertically
(see 6.06-6.08 for variations)
color = P3

quote name
meta bold 20/45 points
quote decription
meta normal 20/45 points
column width 1 1/2 grid units or 21 picas
see page 3.06 for spacing
67 point linespace from last baseline of
quote to first baseline in name
(see 6.12-6.13 for variations)
color = P3

dates
meta normal 350 points
third digit in first date ("3" shown here)
to center vertically between main
photograph and border.
dates to reverse out of border geometry,
background and main photograph.
color = P6

caption for main photograph
serifa roman 18/24 points
column width 1 grid unit or 14 picas
column to be orientated on half grid unit
horizontally and vertically
caption to reverse out of border geometry
color = P6

1/2" border of
panel hidden
by frame

1/2"

Life Along The Canal

"We used to trade a lot along the canal, people who
had vegetables and things. We'd give them coal and
they'd give us cabbages, tomatoes and things like
that. Then there were lock tenders whose wives
made good bread. We'd give them coal for bread."

MR. CHERRY MAIR
Boat Captain's Daughter
Morris Canal

CANALLERS

You became a **captain as young as sixteen** by showing "The
Company" what you could do. You demonstrated how to "snub"
slow down and strike for lock operations, keep accurate cargo
records (pay based on number of miles hauled and coal tonnage
delivered), and care for the mule team.

A boat's "rig" consisted of mules, harness, tow lines, feed box,
right hawker (headlight), stove and bilge pump. While some
captains owned their boats, most rented them from Lehigh Coal
and Navigation Company. The captain hired a mule driver or
used family as crew members.

The "Swampers" (Delaware Canal captains) and "Lehigh
Dutchmen" (Lehigh Canal captains) ran the lengths of both
canals. They loaded coal in Luzerne (1838-1862) or Carbon
County, delivered it to Bristol, and returned to Segfried
(now Northampton) for their pay.

A locktender's family may easily meet
at the lock.

The "lockers" of the Lehigh were usually
located on each approach to the lock.

LIFE ON THE WATER

Canal boats provided primitive living conditions. The typical
crew of two slept on deck or in the **flat cabin** below.
They prepared meals on a cook stove, enhancing their stored
supplies with fresh food from locktenders or general stores.
They enjoyed foods such as bread, fish (bass), coffee, cured
meats, eggs, fresh fruits, vegetables, and canned goods.
Springs along the canal supplied drinking water kept in wooden
barrels on deck.

Often, a **canaler's family came along** for the ride. Children as
young as seven drove the mules along the towpath. Wives took
over cooking operations and shared steering responsibilities.
During warmer months the canals were their entire world.

caption for optional photograph
serifa roman 14/20 points
column width is 2 grid units or 28 picas
3 1/2 picas or 42 points from bottom of
photograph to baseline of caption
caption may not exceed 3 lines.
color = P3

main text
meta normal 24/45 points
54 point linespace from baseline to
baseline between paragraphs
column width 4 grid units or 56 picas
column on left not to extend past
4 1/2 grid units vertically
column on right may extend past
4 1/2 grid units if the main photograph
is cropped horizontally to 9 1/2 grid units
(see 6.06-6.08 for variations)
select a strong word from each paragraph
or a few places within the text to set in
meta bold.
color = P5

heads
meta caps 36/45 points
(check spacing page 3.07)
heads should be 1/2 grid unit or 7 picas
to the left of right margin of the main
text
96 point linespace from last baseline in
paragraph to baseline of new head
color = P5

caption for silhouetted image
serifa roman 18/24 points
column width 2 grid units or 28 picas
column to be orientated on the half
grid unit vertically
caption may not exceed 4 lines
and may be moved horizontally
depending on the shape of the
silhouetted image
(see 6.06-6.08 for variations)
color = P3

Panel Details

-all elements on the page are prototypical and
must be approved by client

Type

-no substitute typefaces will be accepted
-normal kerning
-all type flush left, rag right
-rag tolerance to be kept within 2-3 picas with
minimum hyphenation
-type is specified as type size/leading
-all type to overprint unless specified as
reversed or P6

Color

-P3 = PMS 208 - maroon
-P5 = PMS black
-P6 = white
-P7 = background 1 - PMS 5305
-P8 = background 2 - PMS 5503
-P9 = background 3 - PMS 4535

Date	7.95
Title	Wayside High Profile Text
Scale	1 1/2" = 1'-0"



CANALLERS

You became a captain as young as sixteen by showing "The Company" what you could do. You demonstrated how to "small" (row down and make for fast operations), keep accurate cargo records (pay based on number of miles hauled and coal tonnage delivered), and care for the men.

A boat's "rig" consisted of masts, hammock, lee lines, head but, night bowler headlight, stove and bilge pump. While some captains joined their crews, most rented them from Letlight Coal and Navigation Company. The captain hired a mate, driver or used family as crew members.

The "Swampers" (Detroit Canal captains and "Lehigh Dutchmen" Lehigh Canal captains) ran the lengths of both canals. They loaded coal in Luzerne (1838-1842) or Carbon County, delivered it in Bristol, and returned to Selkirk from northward to their use.

LIFE ON THE WATER

Canal boats provided guidelines being reasonable. The typical crew of two slept on deck, or in the ■ a **so feet** cabin below. They prepared meals on a stove, expanding their stored supplies with fresh food from localities or provincial stores. They enjoyed foods such as bread, fish (bass), coffee, cured meats, eggs, fresh fruits, vegetables, and canned goods. Springs along the canal supplied drinking water kept in wooden barrels on deck.

Often, a cavalier's family came along for the ride. Children as young as seven drove the mules along the swagpath. Wives took over milking operations and shared oxering responsibilities. During warmer months the camps were their entire world.

1831-1932

Canal boating was sometimes a family business.

A small portable boat's 1000 kg displacement, 100 hp outboard motor and 1500 liter fuel tank make it a fine loading platform and the perfect choice for a small, efficient, motor launch.

Date	7.95
Title	Wayside High Profile Example Panel 1
Scale	1 1/2" = 1'-0"



1831-1932

Canal Boats

"I remember one day my dad grabbed both the driver and captain and threw them in the canal. My dog Bitter got one of the captains by the nose of the pants and really tore his pants off. He got his wife to start when he went in the canal to get an another pair of pants - just by acting dumb."

Ben Henry
Lockmaster

BOATBUILDING

American canal boats and bargeboats in use on their canals.

While the preferred boat size Lehigh Canal and Navigation Company's specifications of 14 1/2 feet long, six feet wide and 4 1/2 feet tall, the wooden "hinge" boats carried up to 30 tons of cargo.


Private boatyards built and repaired boats along the Delaware Canal at Uniontown, Evans, Ligon, Mark, Edin, Port Pennant, New Hope and John. The major Company-owned boatyards operated in New Hope and Ligon's Station on the Lehigh Navigation.


HINGE BOATS

Boat captains knew the flexibility of the "hinge" boat. They expressed the two sections easily by removing cross connecting pins. This boat effortlessly turned in the narrow Delaware Canal.


This 1880 photograph shows an unadorned Lehigh Canal bargeboat with a single mast and a single sail.

Friends of the Delaware Canal

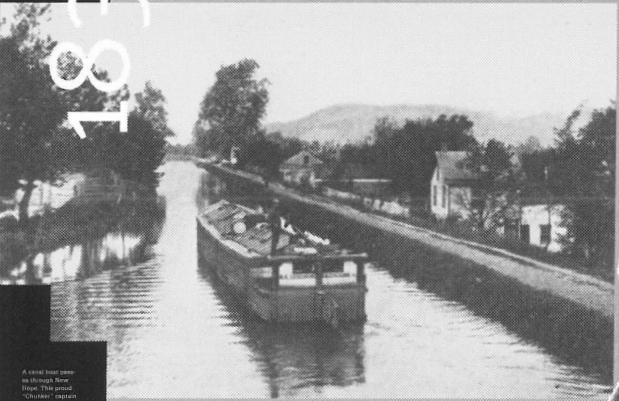





"Hinge" boats were popular on the Delaware Canal. The two and four section boats were used for the top of the Allegheny.



While most boats had a single mast, some had two masts. The two masted boats were used for the bottom of the Allegheny.



A canal boat passes through New Hope Lock. The "Chick" captain (left) has been shown in the canal.



This 1880 photograph shows an unadorned Lehigh Canal bargeboat with a single mast and a single sail.

Date	7.95
Title	Wayside High Pro fileExample Panel 3
Scale	1 1/2" = 1'-0"



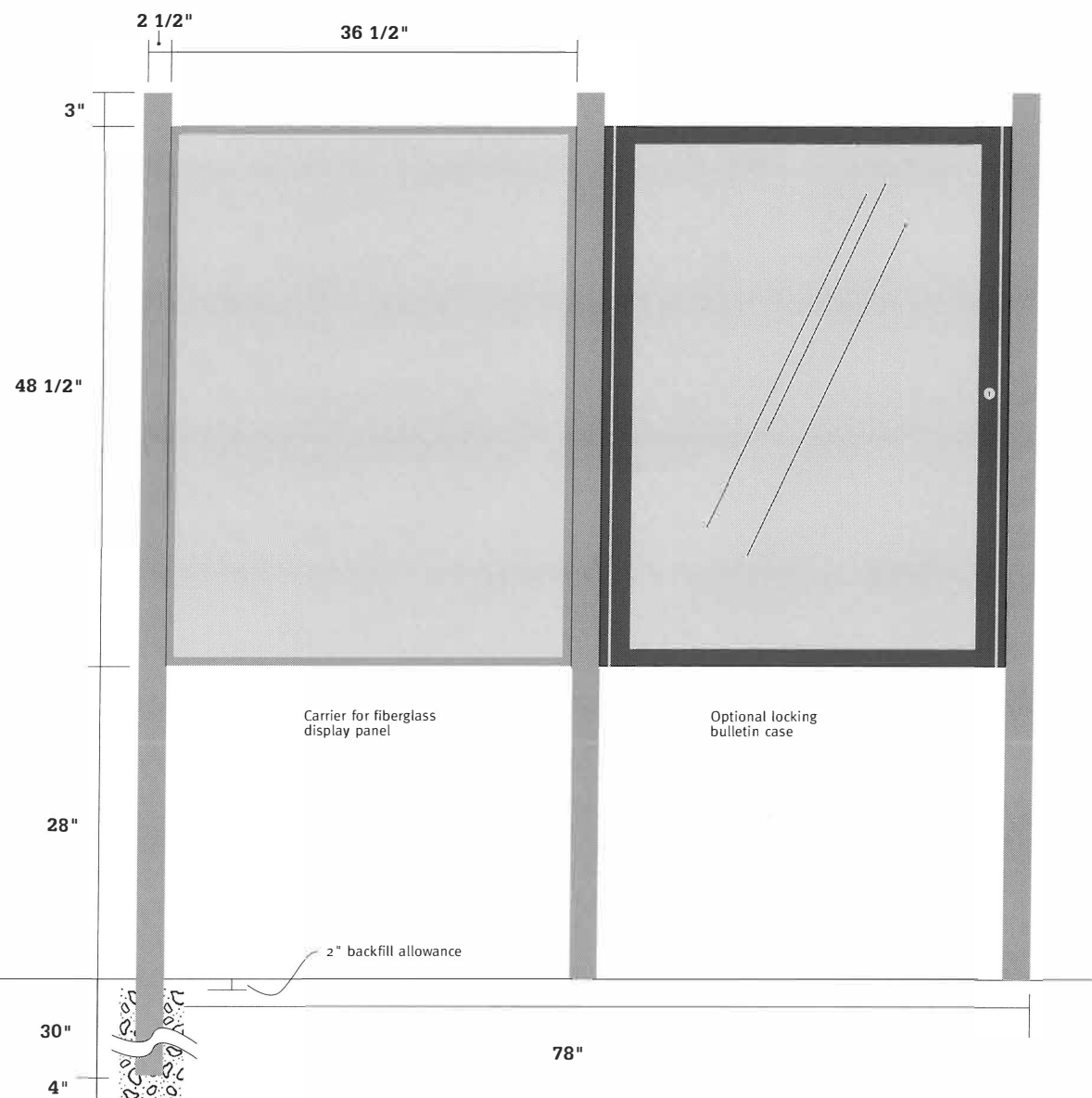
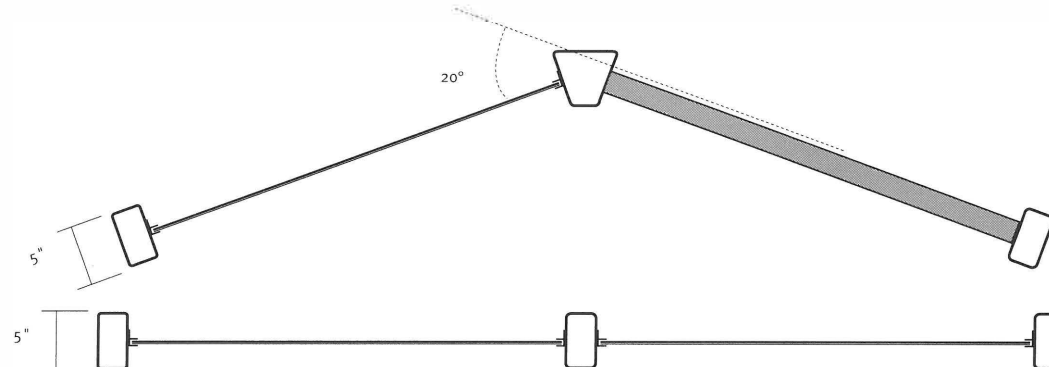
DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

DG.6.10

DISPLAY

Angled option with
bulletin case

Overhead Section



Panel Details

Two panels can be interlocked in either a straight line or at an angle. One of the panels can also house a bulletin board.

Date	7.95
Title	Two-Panel High Profile Display
Scale	3/4" = 1'-0"



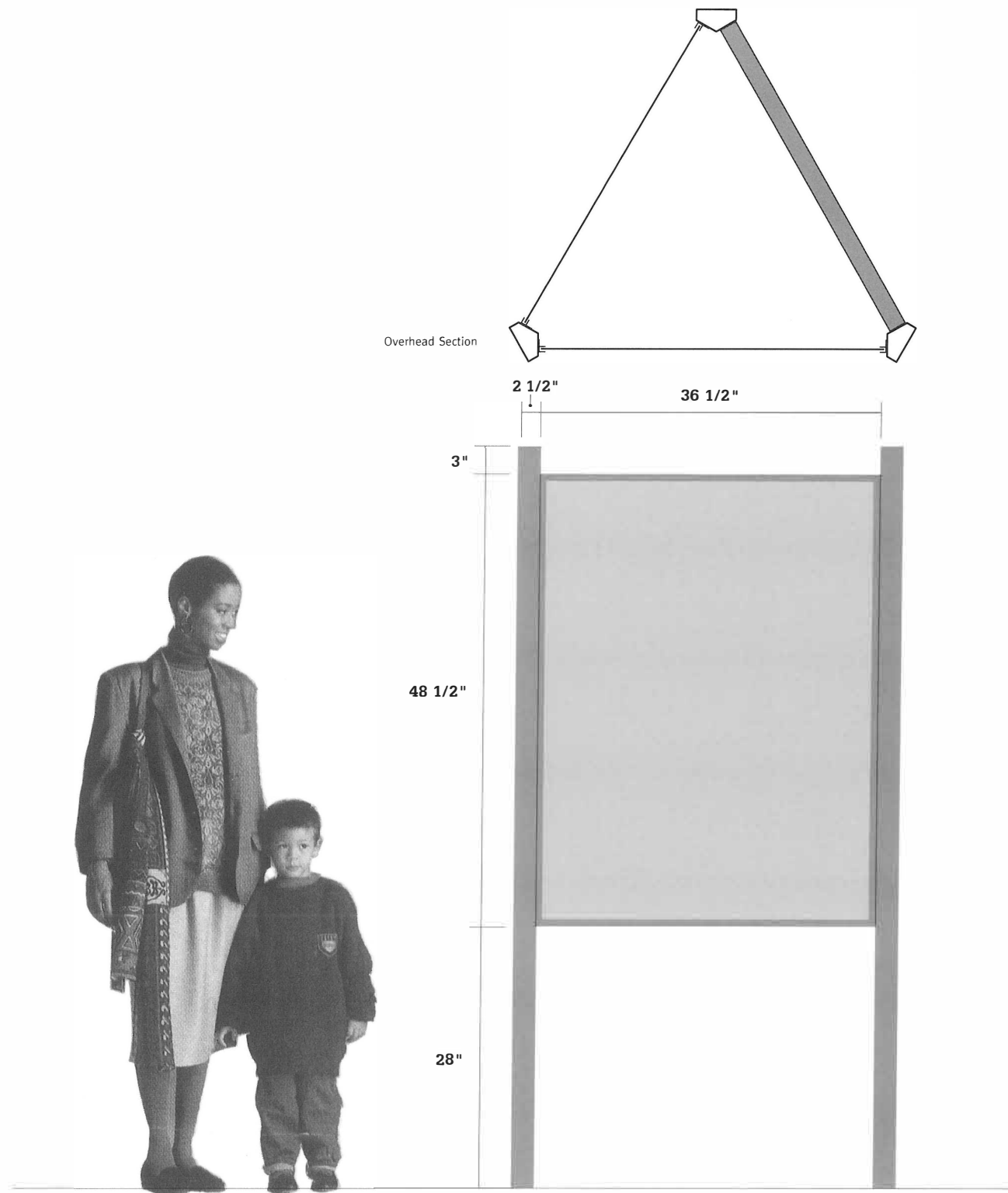
DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

DG.6.12

DISPLAY

Panel Details

-This three-sided kiosk can be used at key visitor locations to provide them with numerous graphics and some text to look at while waiting for something else. It can provide information in locations where staff are unavailable. They will also hold Corridor information at key locations.

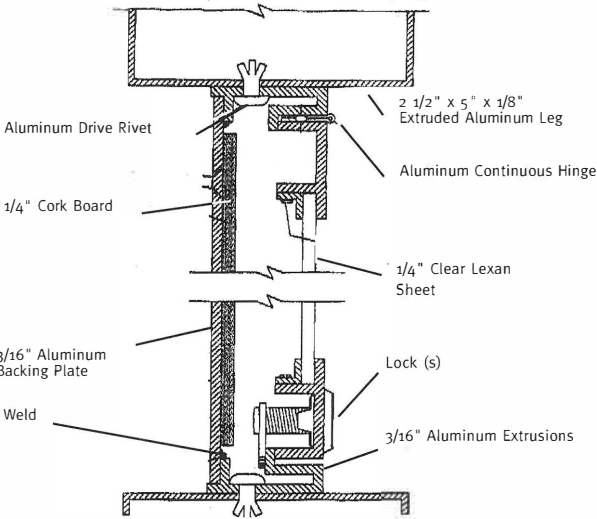


Date	7.95
Title	Wayside High Profile Kiosk
Scale	3/4" = 1'-0"

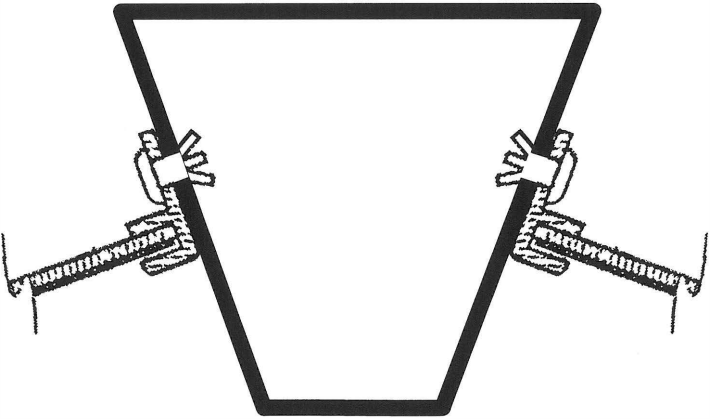


DG.6.13 DISPLAY

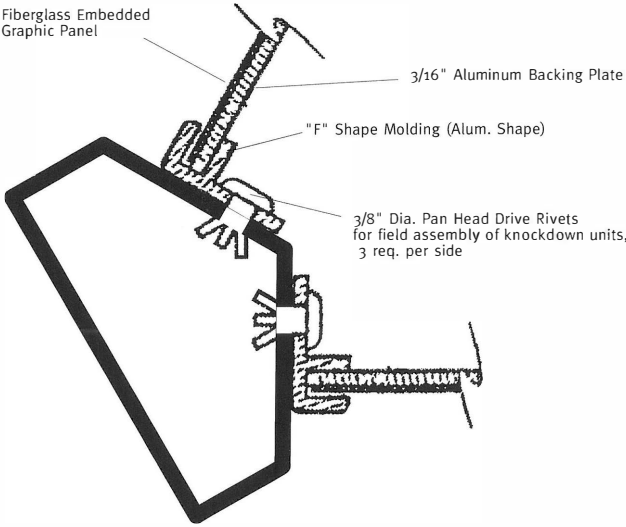
- Materials**
-shapes: 6063-T5 aluminum
-plates: 6061-T6, 5052-H2 aluminum
- Fabrication**
-all edges of molding extrusions and legs to be exposed to the public will have a uniform 1/16" radius.
- Color and Finish**
-sandblast all surfaces to receive paint.
-paint: two coats Polane "T"
-color: P2-Matthews LS-63694



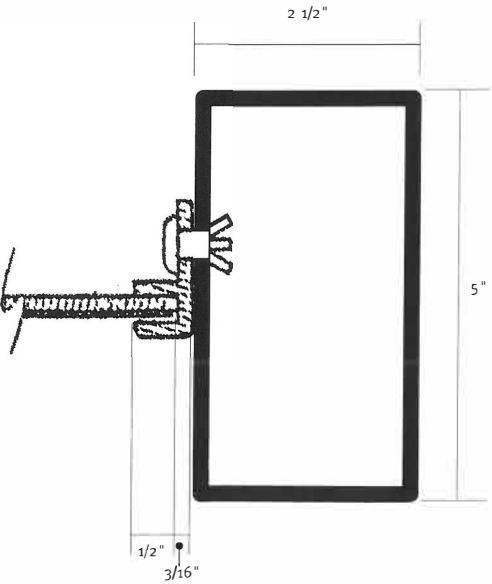
Optional Bulletin Case- Section



20° Angle- Section



Kiosk- Section



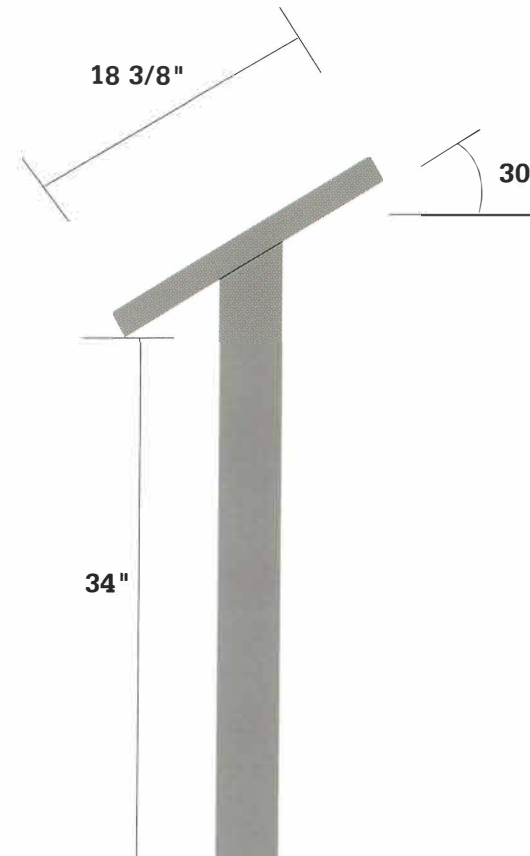
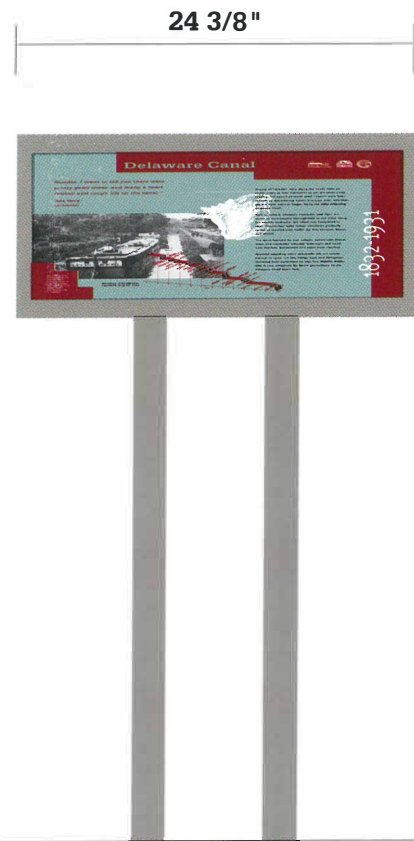
Panel/Leg Attachment- Section

Date	7.95
Title	Wayside High Profile - Details
Scale	NTS



DG.6.15

DISPLAY



Low Profile Panels

-These outdoor intrepertive display panels are to be placed directly on location so the user can look at the information, graphics and the place, element or artifact.

Date	7.95
Title	Wayside Low Profile Panel
Scale	1" = 1'-0"



DG.6.21

DISPLAY

SCHEDULE OF ADDITIONAL DISPLAY SIGNAGE

Type	Description	Drawing Number
Trailhead	36" x 48" high profile outdoor panel with map of immediate area, a brief interpretive 'teaser' about local features and attractions and a literature box for map handouts.	DG.6.22
Trailmap	22" x 48" high profile outdoor panel with map of immediate area. There are two different versions; one for use along the land trails and another for use near the river trails.	DG.6.27
PA/NJ Loop Trailmap	22" x 48" upright outdoor panel for specific use along the PA/NJ Canal loop trails.	DG.6.31

All themes, text, captions, imagery, artwork, photography, maps or diagrams necessary to the design and execution of these exhibits, and any coordination or research required to generate the above mentioned items, are to be provided by the Corridor Commission or individual partners.



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NATIONAL HERITAGE CORRIDOR

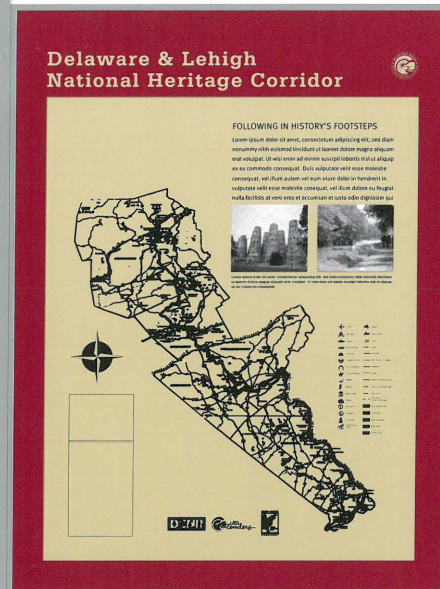
DG.6.22

DISPLAY

3"

48 1/2"

28"



Trailhead

- Trailheads are used for global orientation. There is a brief description of activities, features or amenities in the immediate area. It is the same size as the high profile wayside (36" x 48") and may be used in combination with high profile wayside signage. All trailheads contain the following elements: map, holder for maps, two photos, brief interpretive paragraph and partner logos.

- See DG.6.09 through DG.6.14 for further frame and footing details

Date	7.01
Title	Trailhead
Scale	3/4" = 1'



DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

DG.6.23

DISPLAY

1/2" border of panel
hidden by frame

panel size 36"

visible image size 35"

1/2"

clear acrylic literature dispenser
5 1/4" w x 11 1/2" h x 2 1/2" d with hinged top lid

clear acrylic literature dispenser, item # Do19791
from Merchandising Solutions (800) 399-1632

stainless steel tamper-proof
screws into mounting plate
behind graphic panel

3/4" mdo plywood
(paint all surfaces)

graphic
panel

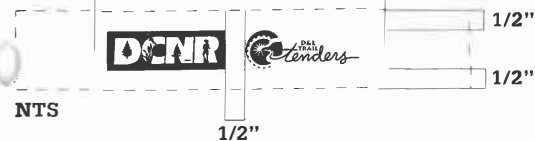
NTS

panel size 48"

visible
image
size
47"

display area 30" x 37.5"
color = P3

overall logo grouping is centered
left to right and top to bottom



1/2" space between all logos
individual logo height not to exceed 1"
individual logo width not to exceed 3"

National Heritage Corridor logo
(see Section 4) 2 1/4" diameter
always positioned 3 7/8" from
top of panel and flush right with
edge of display area
color = P3 & P6

7"

border area
sides and bottom are 2 1/2"
top is 7"
color = P3

partner logos contained
within maximum area shown
overall size 11 1/2" x 2"
(see detail to left of page for
logo placement)

2"

Panel Details

- panel size is 48" tall by 36" wide
- live image area is 47" tall by 35" wide
- partner logos not to exceed 1" high or 3" wide
- partner logos are only placed in area shown
- all other elements on the page are permanent design elements and may not be manipulated in any way

Color

- P3 = PMS 208 - maroon
- P5 = PMS black
- P6 = white
- P9 = background 3 - PMS 4535
- colors shown on trailhead panels are always as specified and are not subject to change

Date **7.01**

Title **Trailhead - Detail**

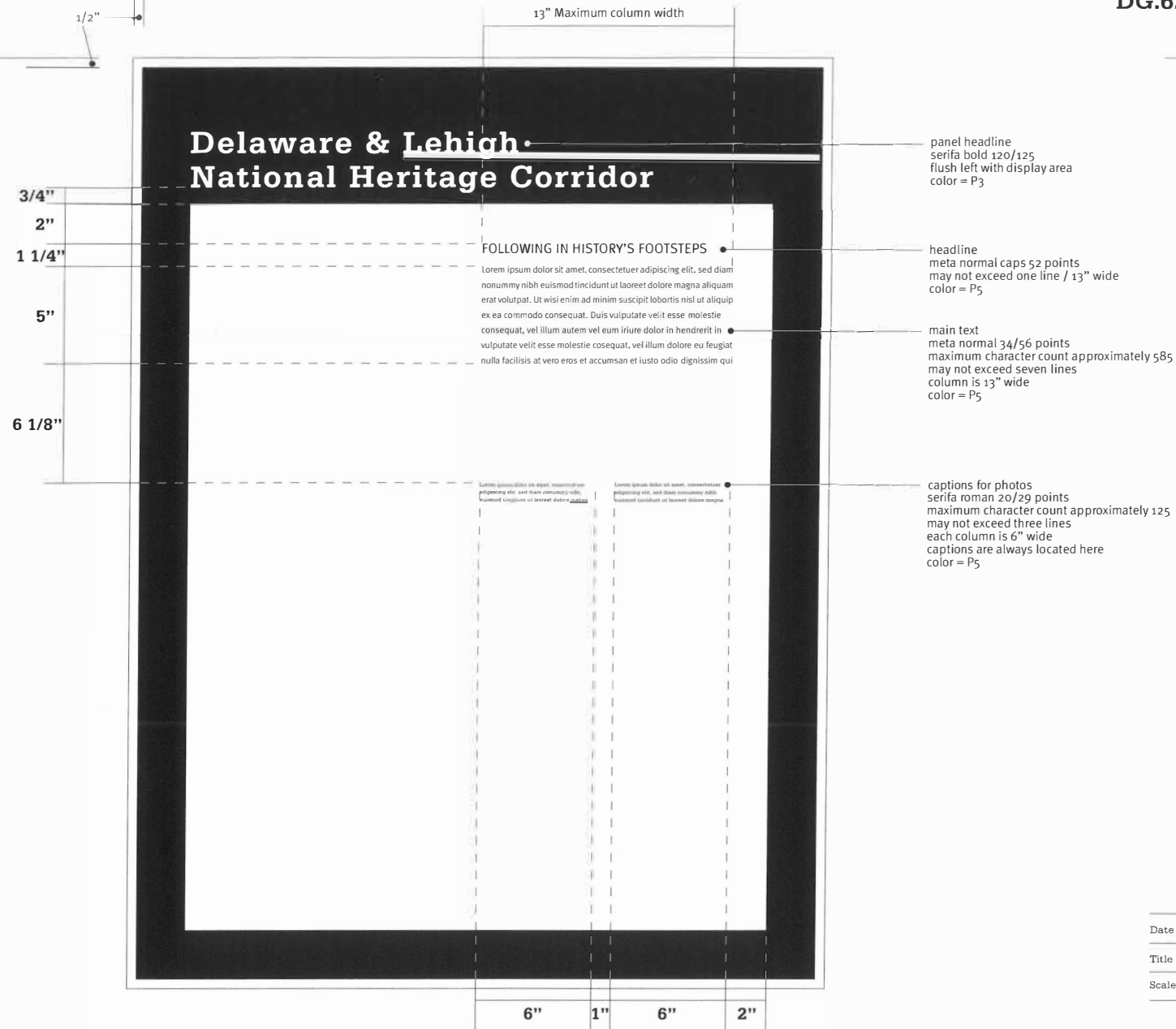
Scale **1 1/2" = 1'**



DG.6.25

DISPLAY

1/2" border of
panel hidden
by frame



Panel Details

- all elements on the page are prototypical and must be approved by client

Type

- no substitute typefaces will be accepted
- normal kerning
- all type flush left, rag right
- rag tolerance to be kept within 2-3 picas with minimum hyphenation
- type is specified as type size/leading
- all type to overprint unless noted

Color

- P3 = PMS 208 - maroon
- P5 = PMS black
- P6 = white
- P9 = background 3 - PMS 4535
- colors shown on trailhead panels are always as specified and are not subject to change

Date **7.01**

Title **Trailhead Text**

Scale **1 1/2" = 1'**



DG.6.26

DISPLAY

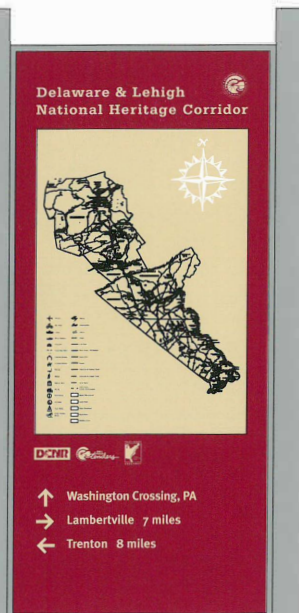
Trailmap

- Trailmaps are used for orientation, displaying a map of the immediate area, as well as directional information. It is the same height as the trailhead (48") but thinner (22"). The trailmap utilized on the river trails is somewhat different, having the following additional elements: waterproof holder for map handouts and facility information.

There is a third, specialized trail map used only for the Delaware & Lehigh/Delaware & Raritan Canal loop trails.

- See DG.6.09 through DG.6.14 for further frame and footing details

3"
48 1/2"
28"



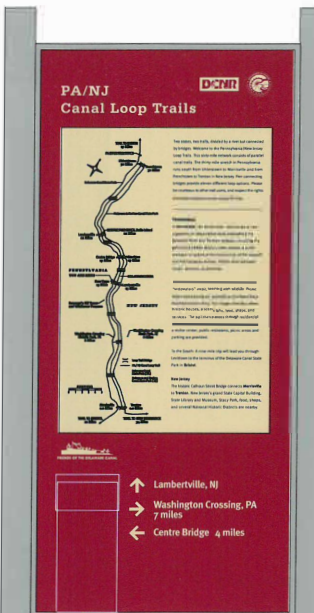
Land Trail Version

DG.6.27



Water Trail version

SG.6.29



PA/NJ Loop Trail version

SG.6.31

Date	7.01
Title	Trailmap
Scale	3/4" = 1'



DG.6.28

DISPLAY

Panel Details

- panel size is 22" wide x 48" high
- visible image size is 21" wide x 47" high
- all elements on the page are prototypical and must be approved by client

Type

- no substitute typefaces will be accepted
- normal kerning
- all type flush left, rag right
- rag tolerance to be kept within 2-3 picas with minimum hyphenation
- type is specified as type size/leading
- all type to overprint unless noted

Color

- P3 = PMS 208 - maroon
- P5 = PMS black
- P6 = white
- P9 = background 3 - PMS 4535
- colors shown on trailhead panels are always as specified and are not subject to change



Date	6.01
Title	Trailmap Land Trail Version - Detail
Scale	1 1/2" = 1'-0"



DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

DG.6.32

DISPLAY

Panel Details

- panel size is 22" wide x 48" high
- visible image size is 21" wide x 47" high
- all elements on the page are prototypical and must be approved by client
- clear acrylic literature dispenser, item # D019791 from Merchandising Solutions (800) 399-1632

Type

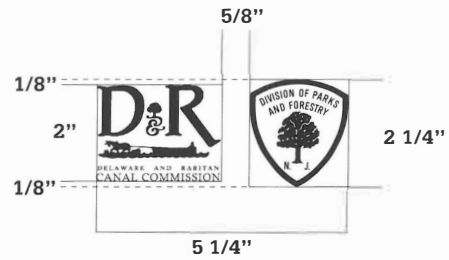
- no substitute typefaces will be accepted
- normal kerning
- all type flush left, rag right
- rag tolerance to be kept within 2-3 picas with minimum hyphenation
- type is specified as type size/leading
- all type to overprint unless noted

Color

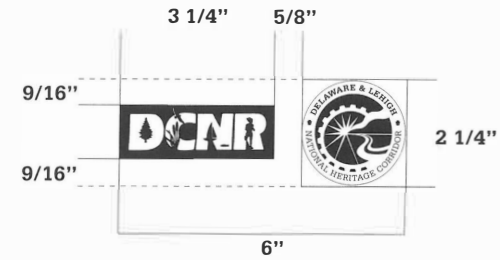
- P3 = PMS 208 - maroon
- P5 = PMS black
- P6 = white
- P9 = background 3 - PMS 4535
- colors shown on trailhead panels are always as specified and are not subject to change

Date	6.01
Title	PA/NJ Canal Loop Trailmap - logo placement
Scale	1 1/2" = 1'-0"

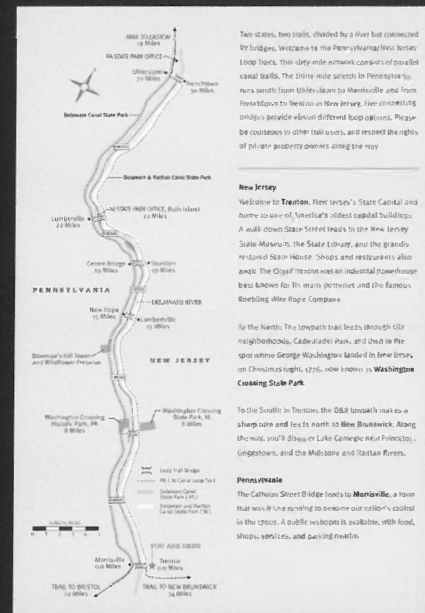
1/2" border of panel hidden by frame



1/2" border of panel hidden by frame



PA/NJ Canal Loop Trails



- ↑ Morrisville, PA
- Washington Crossing 8 miles
- ← New Brunswick 34 miles

partner logo placement:
Delaware & Lehigh
National Heritage Corridor
color= P9

PA/NJ Canal Loop Trails



- ↑ Lambertville, NJ
- Washington Crossing 7 miles
- ← Centre Bridge 4 miles

partner logo placement:
Friends of the Delaware Canal
color= P9



DG.6.33

DISPLAY

Panel Details

- panel size is 22" wide x 48" high
- visible image size is 21" wide x 47" high
- all elements on the page are prototypical and must be approved by client
- clear acrylic literature dispenser, item # D019791 from Merchandising Solutions (800) 399-1632

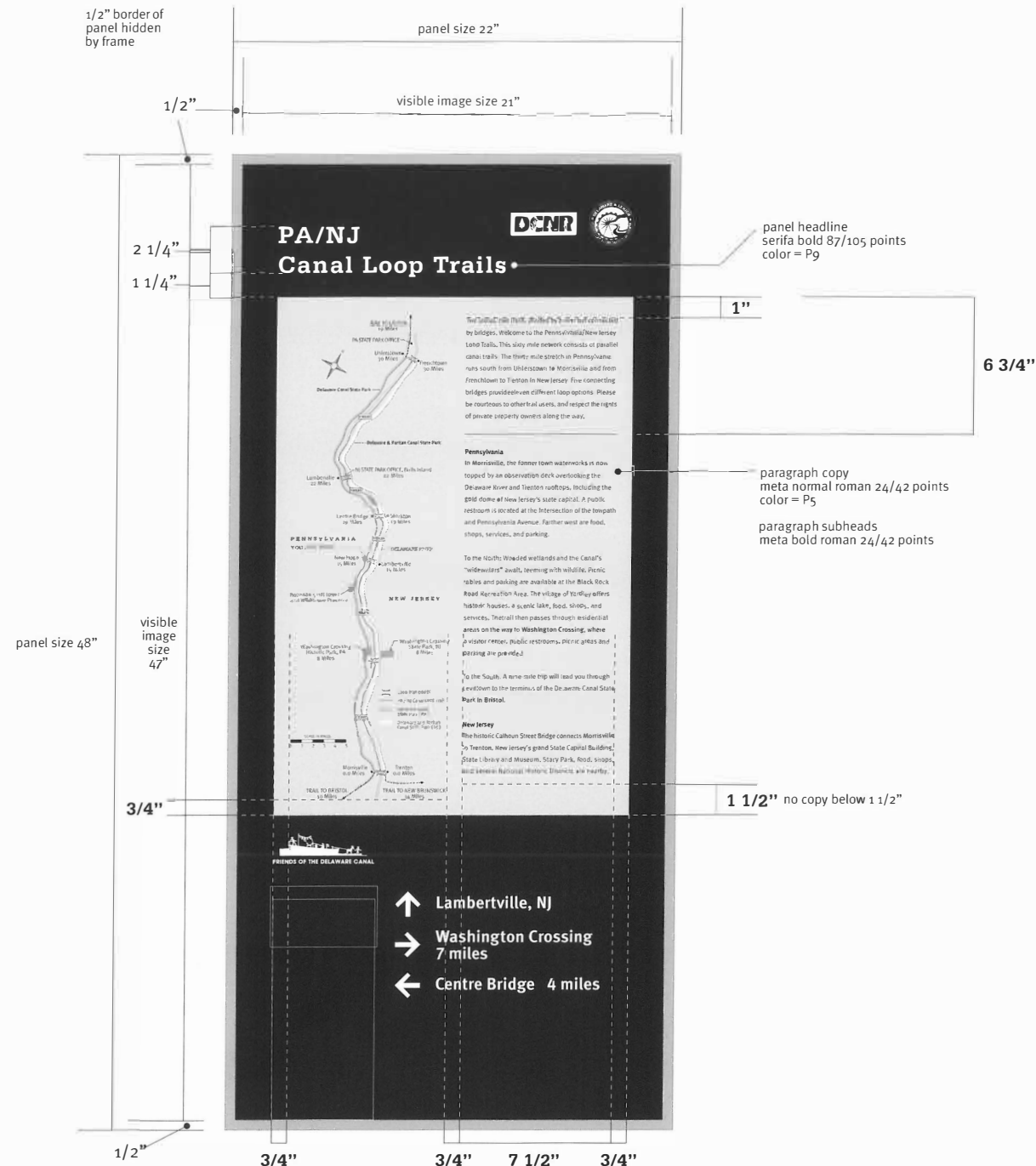
Type

- no substitute typefaces will be accepted
- normal kerning
- all type flush left, rag right
- rag tolerance to be kept within 2-3 picas with minimum hyphenation
- type is specified as type size/leading
- all type to overprint unless noted

Color

- P3 = PMS 208 - maroon
- P5 = PMS black
- P6 = white
- P9 = background 3 - PMS 4535
- colors shown on trailhead panels are always as specified and are not subject to change

Date	6.01
Title	PA/NJ Canal Loop Trailmap - map text
Scale	1 1/2" = 1'-0"





DG.6.34

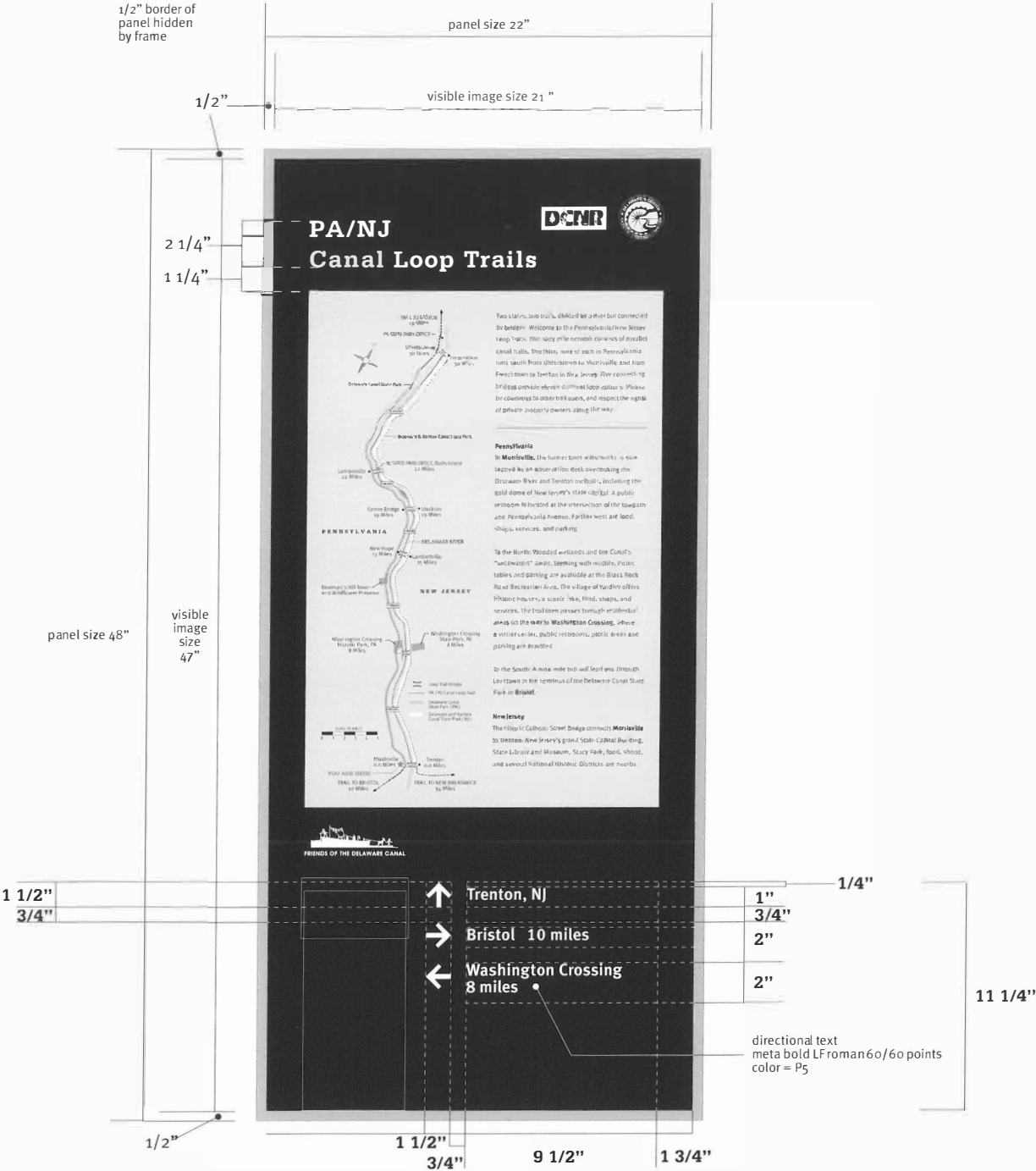
DISPLAY

- Panel Details**
- panel size is 22" wide x 48" high
 - visible image size is 21" wide x 47" high
 - all elements on the page are prototypical and must be approved by client
 - clear acrylic literature dispenser, item # D019791 from Merchandising Solutions (800) 399-1632

- Type**
- no substitute typefaces will be accepted
 - normal kerning
 - all type flush left, rag right
 - rag tolerance to be kept within 2-3 picas with minimum hyphenation
 - type is specified as type size/leading
 - all type to overprint unless noted

- Color**
- P3 = PMS 208 - maroon
 - P5 = PMS black
 - P6 = white
 - P9 = background 3 - PMS 4535
 - colors shown on trailhead panels are always as specified and are not subject to change

Date	6.01
Title	PA/NJ Canal Loop Trailmap - directional text
Scale	1 1/2" = 1'-0"





SCHEDULE OF PRINT STANDARDS

Type/Description		Drawing Number
Stationery	Letterhead, business card, and envelope design	PG.7.02
Activity Theme Brochure	Description	PG.7.03
Site Brochure	Description	PG.7.07
Corridor Brochure	Description	PG.7.11
Corridor/Reach Maps on Pads	Description	PG.7.16



Paper Specification

- 100% recycled Benefit from Champion International
- paper color - oyster
- letterhead and envelope - 70 lb. text
- business card - 80 lb. cover
- envelope to have square flap back

Color

- logo - P3 - PMS 208 U
- text - P5 - black
- photograph - duotone
- shoot full range halftone to print P5 - black
- shoot secondary halftone for shadow areas only to print P3 - PMS 208 U

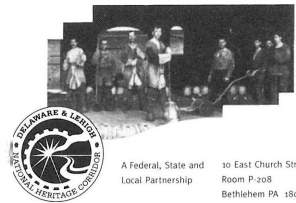


A Federal, State and
Local Partnership



10 East Church Street
Room P-308
Bethlehem PA 18018
Tel 610.861.9345
Fax 610.861.9347

See M. Pridemore
Interpretive Specialist



A Federal, State and
Local Partnership 10 East Church Street
Room P-308
Bethlehem PA 18018

10 East Church Street
Room P-308
Bethlehem PA 18018
Tel 610.861.9345
Fax 610.861.9347

Date	7.95
Title	Stationery
Scale	50% Full Size



MG.8.01 **M A P**

M A P S C H E D U L E

Type/Description	Drawing Number
Specifications	Types, applications and nomenclature MG.8.02



9.01

STANDARDS

PERFORMANCE REQUIREMENTS

Type/Description	Drawing Number
Specifications	Performance requirements 9.02
	Color Schedule 9.10



PERFORMANCE REQUIREMENTS

Item	Description
1.01 Submittals	<p>A Requirements</p> <ol style="list-style-type: none">1 Schedule shop drawings, product data and sample submittals for interrelated items at the same time.2 The Commission may hold 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 two weeks, plus mailing time, for processing by the Commission and/or client. <p>B Shop drawings</p> <ol style="list-style-type: none">1 Submit shop drawings as outlined below. Refer to Commission for quantities required.2 Include plans, elevations, sections and large scale details of sign wording and lettering layout. Show anchorages and accessory items.3 Show fabrication and installation details, including all sign components such as extrusions, brackets, bracing, hardware, internal framing, foundations, etc.4 For exterior illuminated sign types: shop drawings shall also include the following:<ol style="list-style-type: none">a. Fixture type and UL registration number.b. Fixture and lamp/ballast wattage.c. Fixture and lamp wattage.d. Complete photometric data.e. Wiring diagrams, including connection to building power supply.



PERFORMANCE REQUIREMENTS

Item	Description
1.01 Submittals <i>continued</i>	<p>D Samples</p> <ul style="list-style-type: none">c. Each material required for fabrication of each sign type with finishes as specified, including extrusions and hardware.d. Color samples (minimum size 5x5 inches)e. Halftone sample (minimum size 5x5 inches)f. Samples should represent extreme variations in color and texture that might occur during fabrication. <p>E Maintenance</p> <ul style="list-style-type: none">1 Submit four (4) copies of all manufacturer's recommendations for a maintenance schedule and program for all items.2 The instructions shall cover cleaning, repair and maintenance of signs, including data on cleaning solutions or methods of application which should be avoided.
1.02 Delivery	<p>A Package separately or in like groups labeled as to contents. Include installation hardware, adhesives and installation instructions; include a reasonable array of alternate materials to be able to respond effectively to varying field conditions.</p>
1.03 Protection	<p>A Store and protect assemblies from injury at the shop, in transit to the job and until erected in place, completed, inspected and accepted.</p>



PERFORMANCE REQUIREMENTS

Item		Description
1.04	Inspection	<p>A Materials, colors and fabricated or partially fabricated items shall be available for inspection at the factory or elsewhere, by the Commissioners and/or client 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.</p> <p>B Approval prior to the time of final acceptance shall not preclude rejection of delivered items which do not satisfy these specifications.</p>
1.05	Reordering	<p>A All items specified herein shall be available to the owner in additional quantities for a period of ten (10) years after completion of all work called for in this specification.</p>
1.06	Warranty	<p>A Warrant all products (including, but not limited to, materials, hardware and finishes) against any and all defects for a period of ten (10) years from date of installation.</p> <p>B Correct any and all defects in material and/or workmanship which may appear during the warranty period by restoring defective work to the standard of the contract documents at no cost to the owner and to owner's satisfaction.</p> <p>C Vinyl die-cut letters shall be warranted for seven (7) years against delamination from substrate.</p> <p>D Paint finishes shall be warranted for seven (7) years against chalking, fading, bubbling, crazing, rusting or other disintegration of sign posts, sign faces, all edges and all message there applied.</p>



PERFORMANCE REQUIREMENTS

Item	Description
1.06 Warranty <i>continued</i>	<p>E</p> <ol style="list-style-type: none">1. Bubbling, crazing, chalking, rusting or other breakdown of the sign face, messages or edge finish of the sign inserts or panel.2. Corrosion developing beneath paint surfaces of the support systems (except when it is the result of obvious vandalism or other external damage to the paint surfaces).3. Corrosion of fastenings.4. The signs not remaining true and plumb on their supports.5. Fading of the colors when matched against a sample of the original color and material.6. Discoloration of metal finishes.7. Uneven or blotchy paint or finish application.
1.07 Alternative Fabrication	<p>A The drawings show design intent only. The fabricator is responsible for fabrication and overall quality. Changes in design, materials, fabrication techniques or details necessary to the successful completion of this project should be communicated to the owner in a timely fashion.</p> <p>B The owner 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 owner provided they are submitted in sketch form as soon as possible prior to shop drawings.</p>
1.08 Artwork	<p>A The contractor is responsible for preparation of all artwork (including but not limited to type, arrows, imagery, drawings, photographs, symbols) necessary beyond that provided with contract award. Quality of artwork for finished signs shall be the responsibility of the contractor. The owner's representative retains the right to reject artwork if it fails to meet the standard of quality established.</p>



PERFORMANCE REQUIREMENTS

Item	Description
1.08 Artwork <i>continued</i>	<p>B Symbol 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 reproduction artwork or digitized Macintosh compatible AIGA symbols, contact:</p> <p style="padding-left: 40px;">The American Institute of Graphic Arts 1059 Third Avenue New York, NY 10021 212.752.0813</p> <p style="padding-left: 40px;">or</p> <p style="padding-left: 40px;">Society for Environmental Graphic Design 1 Story Street Cambridge, MA 02138 617.868.3381</p> <p>C Arrows on all signs shall use the camera ready artwork or digitized computer compatible arrow files available through the owner.</p> <p>D All halftones should be shot at 85 lines per inch or higher to retain clarity.</p> <p>E Traps in silkscreen work to be kept to a minimum. Traps should be no greater than 1/16" in any direction</p>
1.09 Materials	<p>A Paint for aluminum and photo-etched polymer components: shall be Matthews Acrylic Polyurethane, an ultraviolet inhibited aliphatic isocyanate acrylic system engineered for extreme color and gloss retention. Degree of gloss is specified in design drawings. One coat 74-734 and 74-735 metal pretreat at .25 mils DFT or one coat 74-793 spray bond at .15 to .25 mils DFT and one coat Matthews Acrylic Polyurethane 1.25 mils DFT.</p>



PERFORMANCE REQUIREMENTS

Item	Description
1.09 <i>continued</i> Materials	<p>Coating to protect aluminum by uniformly penetrating, filling and sealing surface pores. Coating should provide a barrier to weathering, airborne contaminants, graffiti, industrial air pollution, mildew, and salt air. Coating should not yellow, peel, or flake. Coating should be guaranteed a minimum of seven years. Sign panels shall be predrilled in proper locations before any priming, painting or coating processes. Aluminum should have consistency of color and finish throughout project.</p> <p>B Pressure sensitive legends and letters use "Scotchlite" brand reflective sheeting manufactured by 3M. Thickness: .003 inch minimum, .006 inch maximum. Material shall consist of transparent plastic having a smooth, flat outer surface embedded with spherical lens elements.</p> <p>C Silkscreen inks: formulate epoxy silkscreen inks for surfaces on which they will be used. Add catalytic or bonding agents as necessary to maximize adherence and vandal resistance.</p> <p>D Silkscreen inks to have maximum opacity and to use UV inhibitors.</p>
1.10 Fabrication	<p>A Report any discrepancies between drawings, specifications and owner requirements and request direction from owner before proceeding.</p> <p>B Verify measurements in field as required for work fabricated to fit job conditions. Before starting work, examine adjoining work on which work in this contract is in anyway dependent for workmanship and fit. Report any problems or difficulties to owner.</p> <p>C Make work in ample time not to delay job progress and deliver to job at such time as required for proper coordination.</p>



PERFORMANCE REQUIREMENTS

Item	Description
1.10 Fabrication <i>continued</i>	<p>D 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 with appropriate tools but not readily removed or tampered with by unauthorized personnel.</p> <p>It is desirable for the fabricator to produce additional silkscreen sheets (in excess of required order) for future embedment. Client to specify.</p>



9.10 | COLOR

No.	Color	Pantone	Matthews
P1	Dark Maroon	—	LS-52894
P2	Light Green	—	LS-63694
P3	Light Maroon	PMS 208	
P4	Dark Green	PMS 5615	Not in use at this time
P5	Black	PMS Black C	
P6	White		
P7	Blue	PMS 5305	
P8	Brown	PMS 5503	
P9	Tan	PMS 4535	

To request color swatches, contact:

Pantone

-201-935-5500, 201-896-0242 (fax)

-Pantone colors are specified for use in printing and silkscreen application

Matthews Paint Company

-800-323-6593, 414-947-0444 (fax)

-Matthews paint products are specified for exterior signage and display hardware and related elements

-gloss finish of paint specified is to be 60 degrees or 29.8 on a 60 degree glossimeter

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