CLOUD GEHSHAN ASSOCIATES

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University of Arkansas

Signage and Wayfinding Program

Construction Documents

September 15, 2009
Record Set

UNIVERSITY of ARKANSAS

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University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

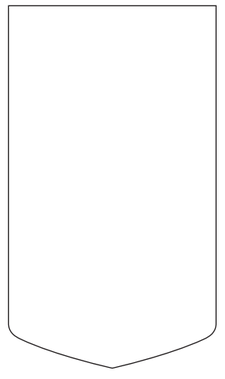
Artwork

A1 University Seal

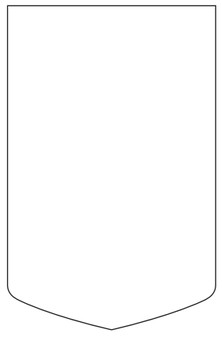
University of Arkansas

A2 University Wordmark

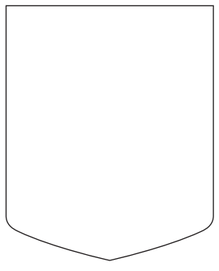
Vehicular Shield Templates – shown in scale to each other



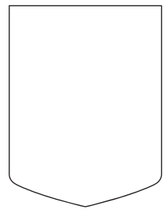
A3 Large Directional



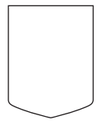
A4 Medium Directional



A5 Small Directional



A6 Gateway



A7 Interstate Trailblazer

Graphic Standards

Logo – Logotype – Sign Templates

Notes

Art is provided by Cloud Gehshan Associates as electronic digital files unless otherwise noted.

Final wordmark should be obtained from University Relations prior to fabrication.

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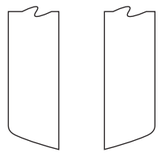
Artwork

Vehicular Templates

A8 Curved Bar Template for A3-A-5

A9 Curved Bar Template for A6



A10 Bracket Template (on Back of Signs)

A11 Curved Bar Template for All Other Sign Types

ARKANSAS UNION

A12 Serif Typeface (Font: Trajan Pro Regular)

ARKANSAS UNION

A13 Sans serif Typeface (Font: FF Meta Book)

A14 Tobacco-free Art

Graphic Standards

Building Identification Artwork

Notes

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Graphic Standards

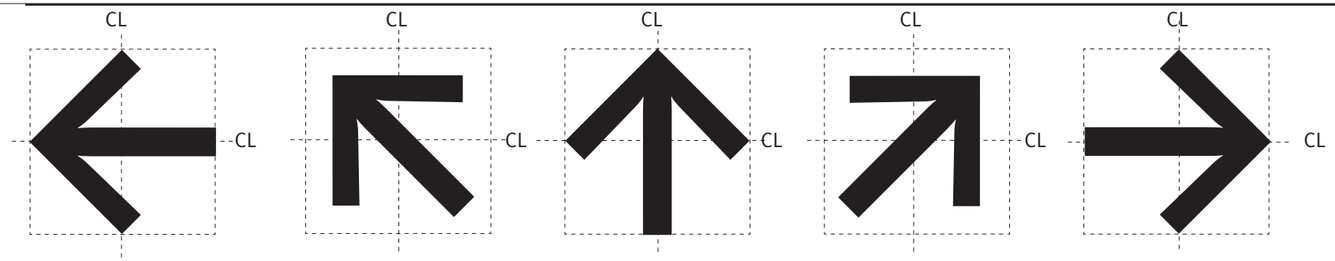
Arrows & Symbols

Notes

Art is provided by client as electronic digital files unless otherwise noted.

No substitute arrows or symbols will be accepted.

Arrows



S1 Directional Arrow

International Symbols

S2 No Smoking

S3 Restrooms

Bracket

S4 Telephone

S5 Handicapped Accessible

S6 Parking

S7 Information

S8 Pet Waste

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Notes

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No substitute arrows or symbols will be accepted.

Parking Symbols

S8 Motorcycle

S9 Short-Term

S10 Long-Term

S11 Loading Zone

DOT Symbols

S12 Interstate Highway

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Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

F1– Myriad Pro Regular
Foundry: Adobe Systems

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890?&:"( )

F2–Myriad Pro Semi-Bold
Foundry: Adobe Systems

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890?&:"( )

F3–Myriad Pro Bold
Foundry: Adobe Systems

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890?&:"( )

Graphic Standards

Typefaces
F1 – Myriad Pro Regular
F2 – Myriad Pro Semi-bold
F3 – Myriad Pro Bold

Notes
No substitute typefaces will be accepted.

Typefaces may be obtained from several sources but to maintain consistency they must originate from the foundries indicated.

Adobe Systems Inc. (800)682.3623
Font Shop International (888)333.6687
URW +49 40 60 60 50

For letter spacing direction, see individual drawing pages.

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Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

F4– Charter Regular
Foundry: URW

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890?&:”( )

F5– Charter SC ITC TT Regular
Foundry: URW

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890?&:”( )

F6–Meta Book Roman
Foundry: Font Shop International

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890?&:”( )

Graphic Standards

Typefaces
F4 – Charter Regular
F5 – Charter Bold
F6 – Meta Book Capitals

Notes
No substitute typefaces will be accepted.

Typefaces may be obtained from several sources but to maintain consistency they must originate from the foundries indicated.

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URW +49 40 60 60 50

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F7– Trajan Regular
Foundry: Adobe Systems

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890?&:"()

Graphic Standards

Typefaces

F7 - Trajan Regular is used for dimensional letters for building identification

F8 - FF Meta Book Roma is used for dimensional letters for building identification

Notes

No substitute typefaces will be accepted.

Typefaces may be obtained from several sources but to maintain consistency they must originate from the foundries indicated.

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Font Shop International (888)333.6687

URW +49 40 60 60 50

For letter spacing direction, see individual drawing pages.

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Date	Revisions	Scale
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Paint Matches	Number	Color	Specification - color to match	Fabrication Process
	P1	Umbra Gray	Coraflon ADS7113030	Coraflon Paint
	P2	Light Brown	Coraflon ADS8304030	Coraflon Paint
	P3	Red	Coraflon ADS43030XL	Coraflon Paint
	P4	Black	Coraflon ADS2301	Coraflon Paint
	P5	White	Coraflon ADS White	Coraflon Paint
	P6	Hazel Woods	Behr 460F-7	Coraflon Paint
	P7	Newburg Green	Benjamin Moore HC-158	Coraflon Paint
	P8	Coppertone	Benjamin Moore 2161-10	Coraflon Paint
	P9	Grapevine	Olympic D11-6	Coraflon Paint
	P10	Seed Brown	Benjamin Moore 2096-10	Coraflon Paint
	P11	Metallic Bronze	Matthews MP20305	Coraflon Paint
	P12	Aluminum Gray	Coraflon ADS2305	Coraflon Paint

Graphic Standards

Color Schedule

Paints

- PPG Coraflon paint products are specified for exterior signage, display hardware and related elements.

- Gloss finish of paint specified is to be 60 degrees or 29.8 on a 60 degree glossometer. Refer to performance requirements of exact specifications.

PPG
888.774.7732

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Date	Revisions	Scale
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Custom Matches	Number	Material	Specification - color to match	Fabrication Process
	C1	Cast Bronze	Matthews Intl. – Control Sample 1	Cast Bronze: Edges sandblasted, light oxidized coloring, and clear coat.
	C2	Cast Bronze	Matthews Intl. – Control Sample 2	Cast Bronze: Edges sandblasted, dark oxidized coloring, and clear coat.
	C3	Bronze sheet	Matthews Intl. – Control Sample 2	Bronze sheet: Horizontal brushed surface, dark oxidized coloring, and clear coat.
	C4	Clear Anodized Aluminum	AAM32C22A41 (215-R1)	Aluminum sheet: Horizontal brushed surface, and clear anodized.
	C5	Brass sheet	Must match color C2 above!	Brass sheet: Horizontal brushed surface, dark oxidized coloring, and clear coat.

Manufactured Products	Number	Product	Specification - color to match	Fabrication Process
	M1	3M Scotchlite Reflective Graphic Film	Reflective White, 680-10	Surface Applied
	M2	3M Opaque Vinyl	Olympic Blue, 180C-57	Surface Applied
	M3	3M Opaque Vinyl	Cardinal Red, 180C-53	Surface Applied
	M4	3M Opaque Vinyl	Harvest Gold, 7725-105	Surface Applied
	M5	3M Opaque Vinyl	Medium Gray, 180C-31	Surface Applied
	M6	Bronzetone Plaque	Dixie Graphics - Control Sample 3	Cast
	M7	Zinc Plaque	Dixie Graphics - Control Sample 4	Cast
	M8	Fossil Graphics	CMYK graphic	Permanent Fusion of Graphic Image and High Pressure Laminate
	M9	3M Reflective Vinyl	Pantone 187 C Red on 680-10 Reflective White, 680-10	Digital Print on Vinyl
	M10	Digital Vinyl Print	Pantone 187 C Red on White 3M 7725-10	Digital Print on Vinyl

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Graphic Standards

Materials and Products

- Digital vinyl print to be applied as a second surface application

3M
800.328.3908

Matthew Int. Corp.
800.950.1317

Dixie Graphics
615.832.7000

Fossil Industries
631.254.9200

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University of Arkansas
Signage and Wayfinding Program

Project No.
714802.6

Date
8.12.08

Revisions
2.20.09, 6.30.09, 9.15.09, 12.16.09, 01.12.10

Scale
N/A

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2.1 SYSTEM OVERVIEW

Vehicular Signage

1 Vehicular Directional Large

2 Vehicular Directional Large – strap mounted

3 Vehicular Directional Medium

4 Vehicular Directional Medium – strap mounted

5 Vehicular Directional Small

6 Vehicular Directional Small – strap mounted

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Date	Revisions	Scale
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7 Neighborhood Gateway

8 Parking Lot ID – large with changeable insert

9 Parking Lot ID – small with changeable insert

10 11 Interstate Trailblazers

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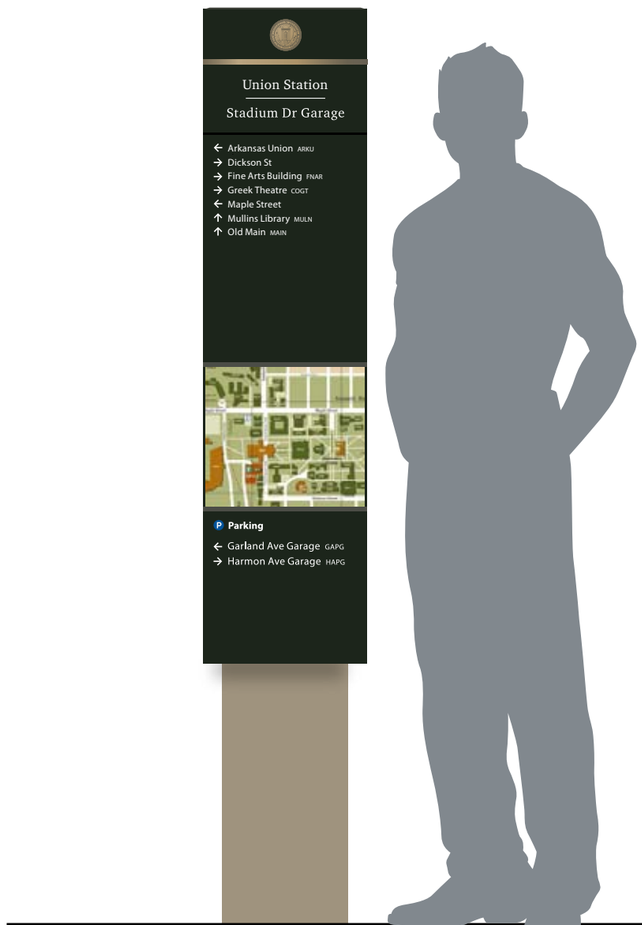
Pedestrian Signage



20 Pedestrian Directional

21 Accessible Blaze

22 Pedestrian Map Station

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Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

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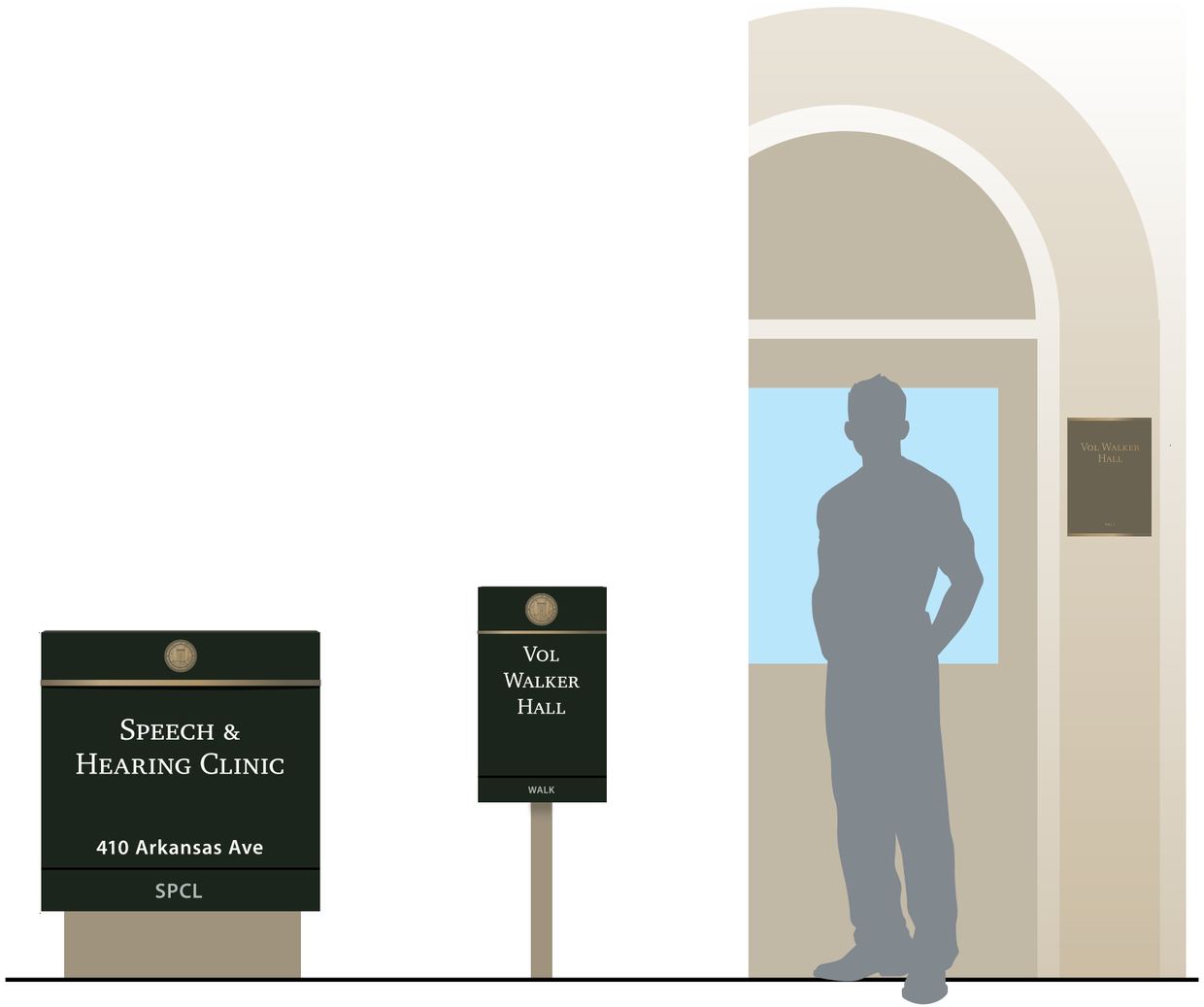
2.4 SYSTEM OVERVIEW

Building Identification Signage



30 Building ID – large

31 Building ID – small

32 Building ID – wall-mounted

UNION
Dark Bronze

UNION
Light Bronze

33 Building ID – Prismatic Letters

UNION
Bronze

UNION
Silver

34 Building ID – Fabricated Dimensional Letters

UNION
Bronze

UNION
Silver

35 Building ID – Cut Dimensional Letters

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Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

40 Small Information Sign

41 Small Interpretive Sign

42 Donor Recognition

43 Regulatory

44 Tobacco-free Signs

Applications to:
- 44.1 Vehicular Directionals
- 44.2 Vehicular Gateway
- 44.3 Existing Utility Poles
- 44.4 DOT Traffic Signs
- 44.5 Decal On Glass

45 Specification for Painting Back & Post of Regulatory Signs

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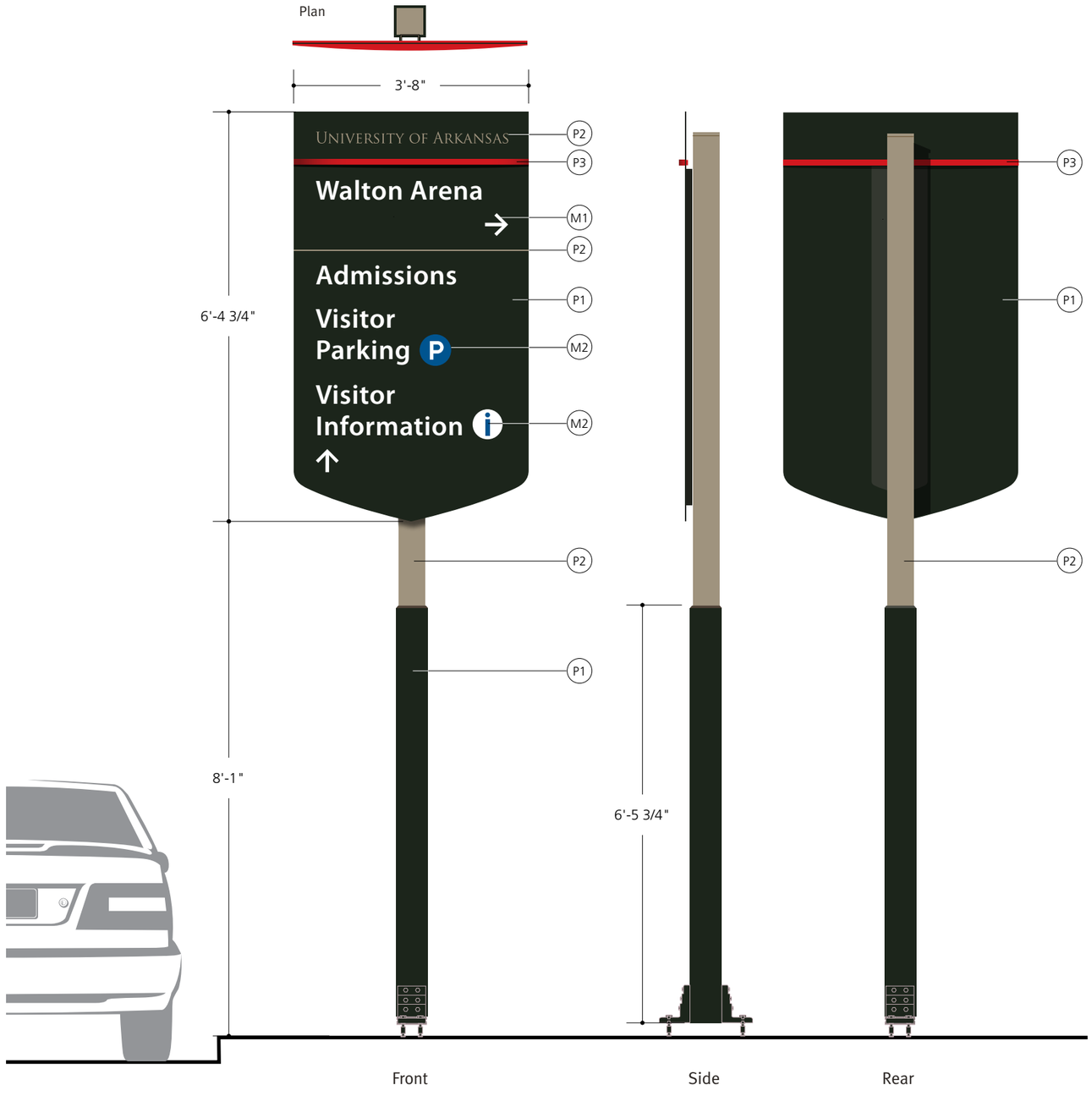

1 Elevations ST1
scale: 1/2 "=1'-0"

2 Contextual sketch
n t s

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2.6 ELEVATION DRAWINGS

Sign Type 1

Vehicular Directional – large
Single-faced

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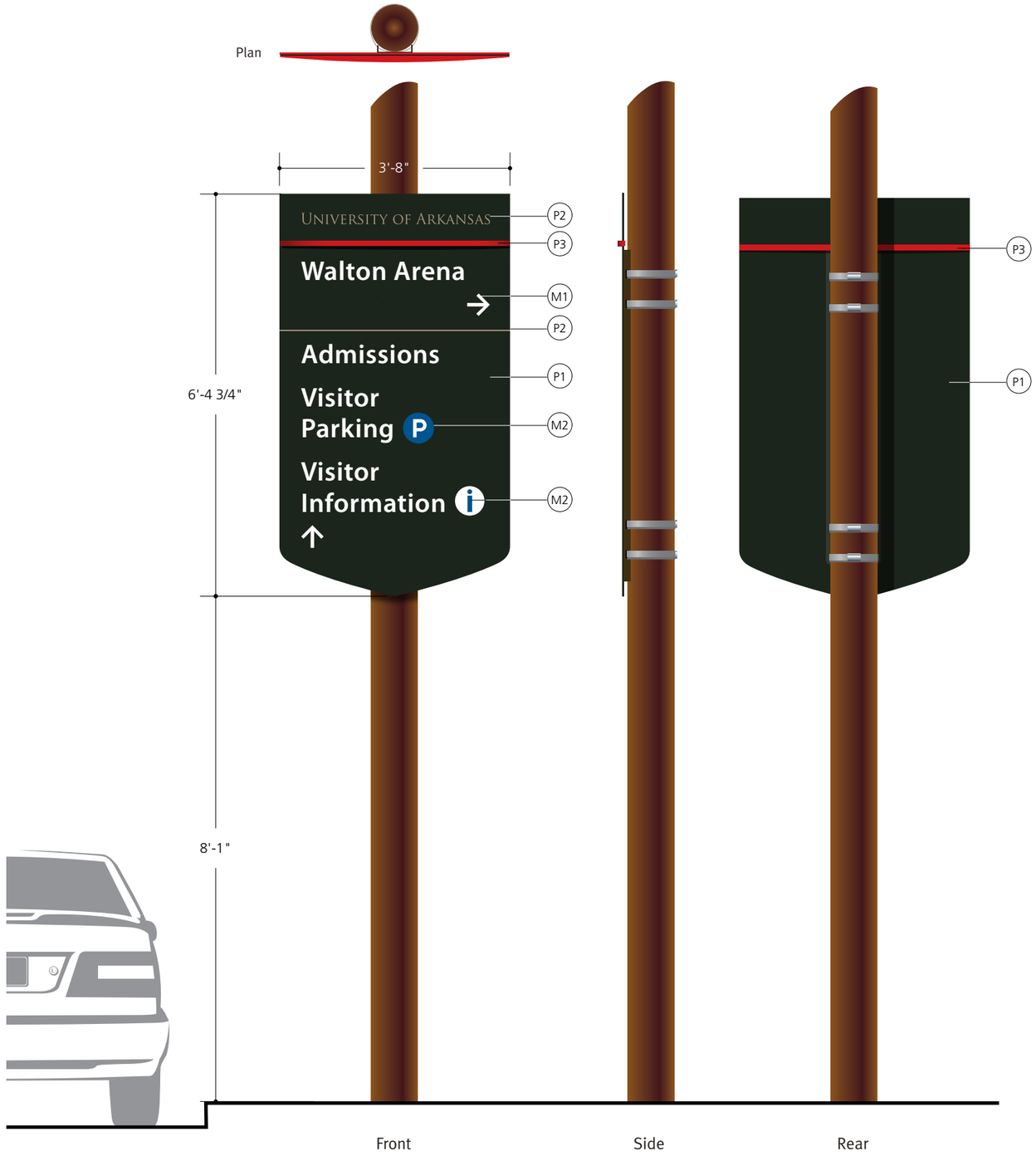

1 Elevations ST2
scale: 1/2 "=1'-0"

2 Contextual elevation
n t s

UNIVERSITY of ARKANSAS

2.7 ELEVATION DRAWINGS

Sign Type 2

Vehicular Directional – large, strap-mount
Single-faced

See page 2.18 for mounting hardware details

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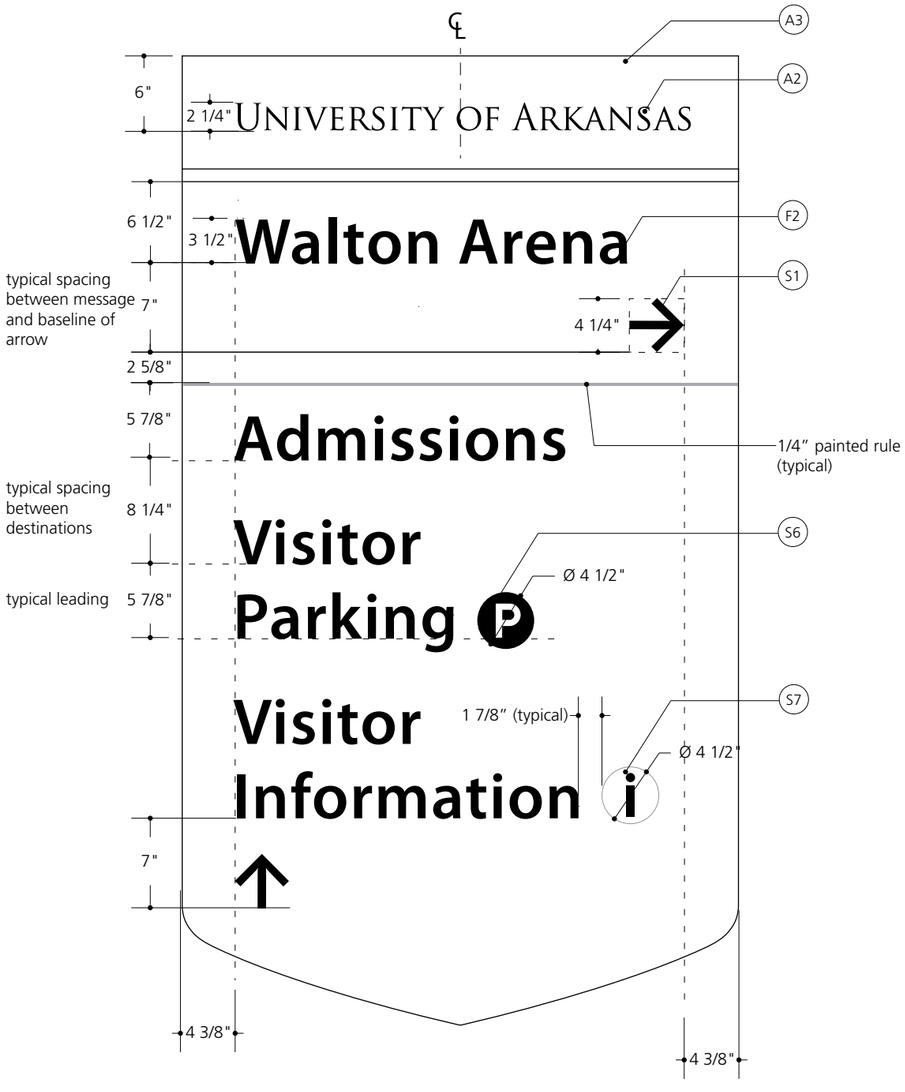
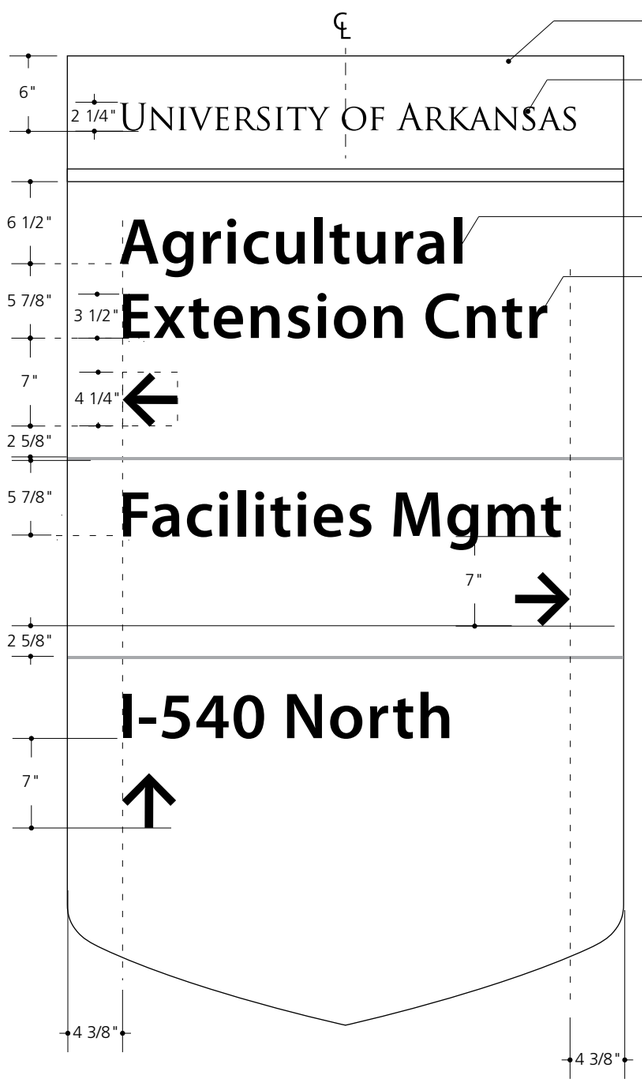


1 ST 1&2 Layout Guideline
scale: 1 "=1'-0"



2 ST 1&2 – 3-Direction Layout Guideline
scale: 1 "=1'-0"

Note: Message content shown does not reflect any existing scenario.

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Sign Type 1 & 2

Vehicular Directional – large
Single-faced

Layout Drawings

Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule.

Graphics

Artwork to be mask and sprayed unless otherwise specified. Text, arrows and symbols are reflective vinyl. Refer to Graphic Standards for specifications.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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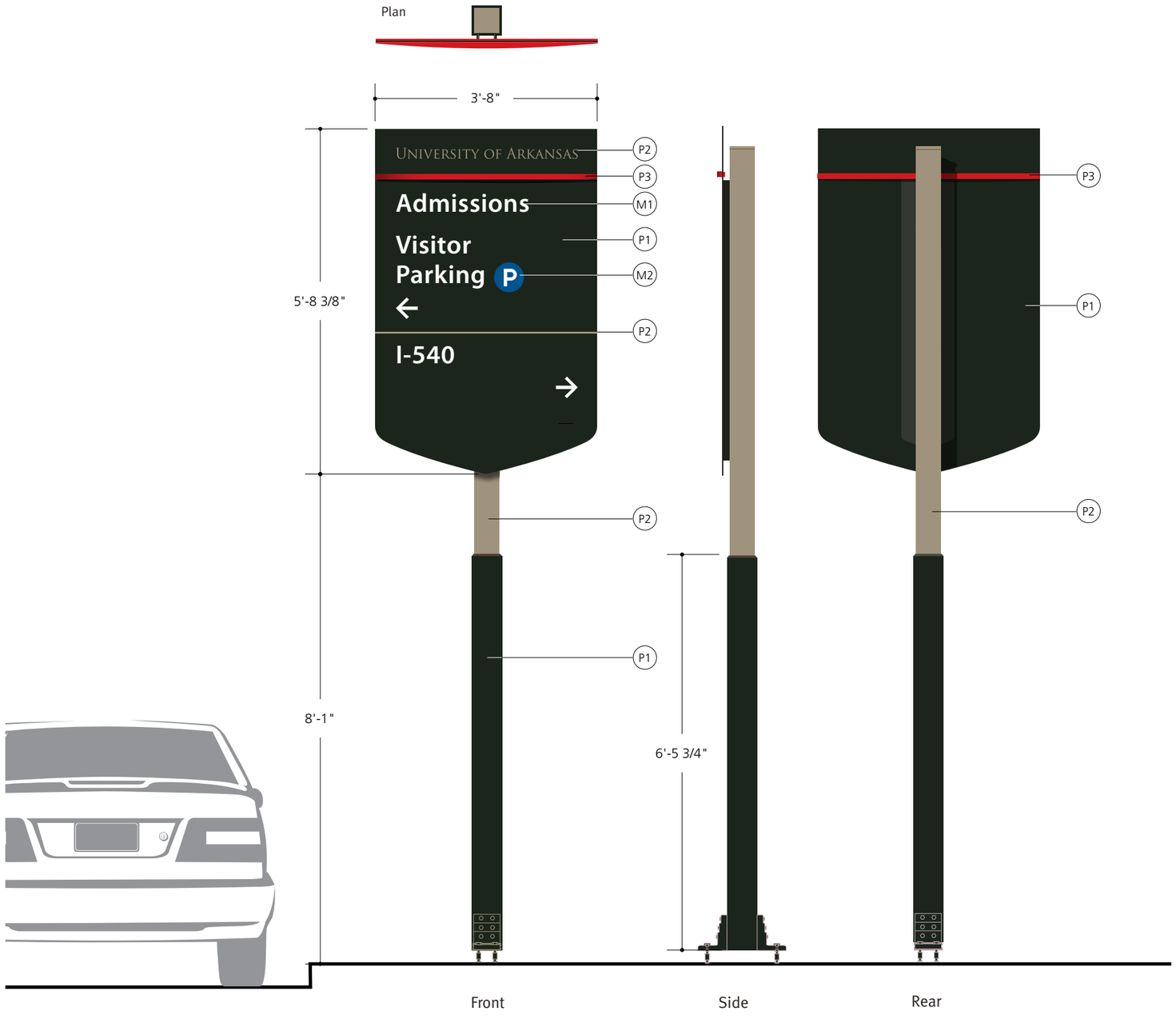

1 Elevations ST3
scale: 1/2 "=1'-0"

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2.9 ELEVATION DRAWINGS

Sign Type 3

Vehicular Directional – medium
Single-faced

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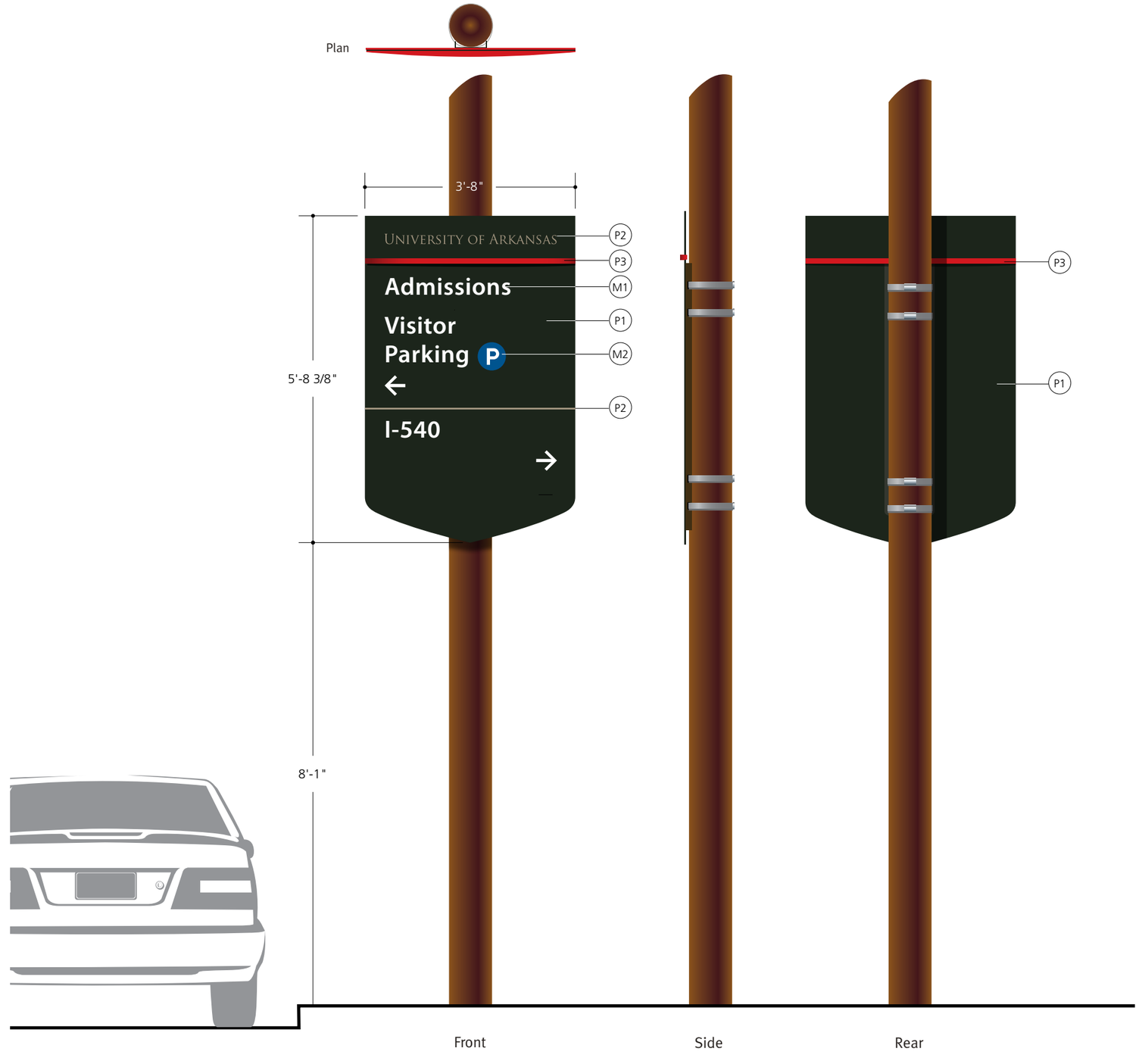

1 Elevations ST4
scale: 1/2 "=1'-0"

UNIVERSITY of ARKANSAS

2.10 **ELEVATION DRAWINGS**

Sign Type 4

Vehicular Directional – medium, strap-mount
Single-faced

See page 2.18 for mounting hardware details

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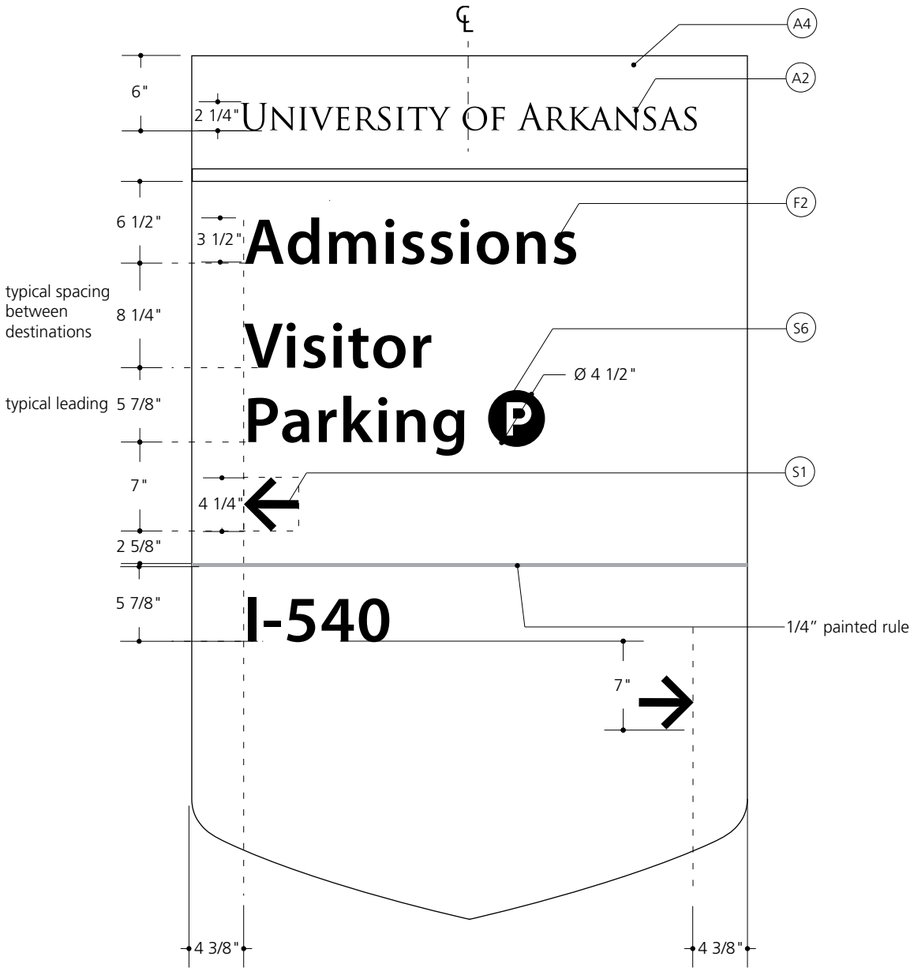
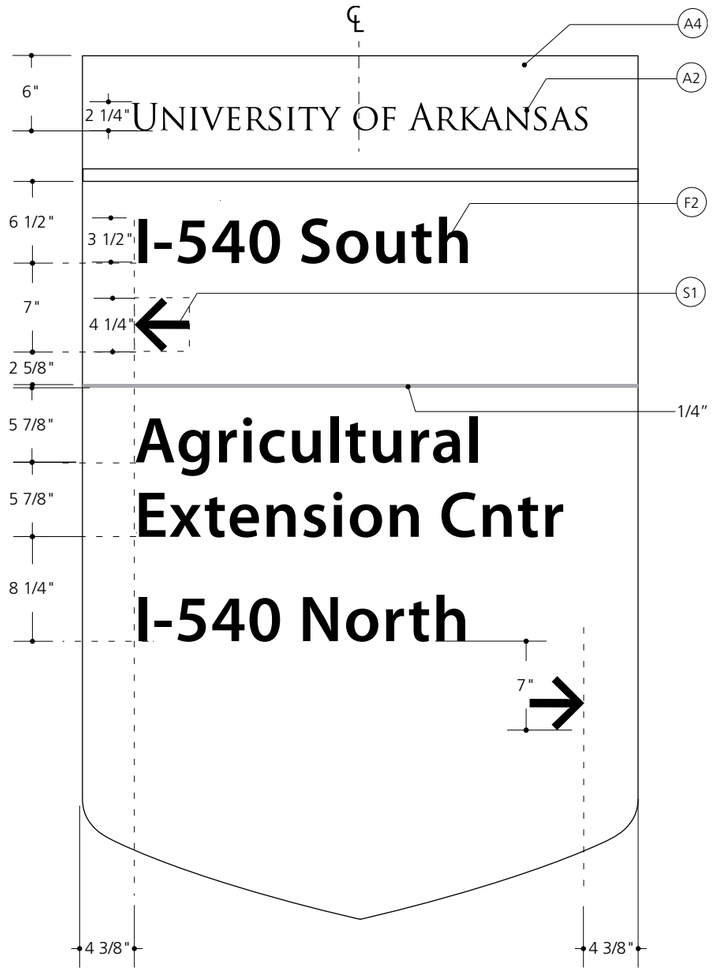


1 ST 3&4 Layout Guideline
scale: 1 "=1'-0"



2 ST 3&4 Alternate Layout Guideline
scale: 1 "=1'-0"

UNIVERSITY of ARKANSAS

Sign Type 3 & 4

Vehicular Directional – medium
Single-faced

Layout Drawings

Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule

Graphics

Artwork to be mask and sprayed unless otherwise specified. Text, arrows and symbols are reflective vinyl. Refer to Graphic Standards for specifications.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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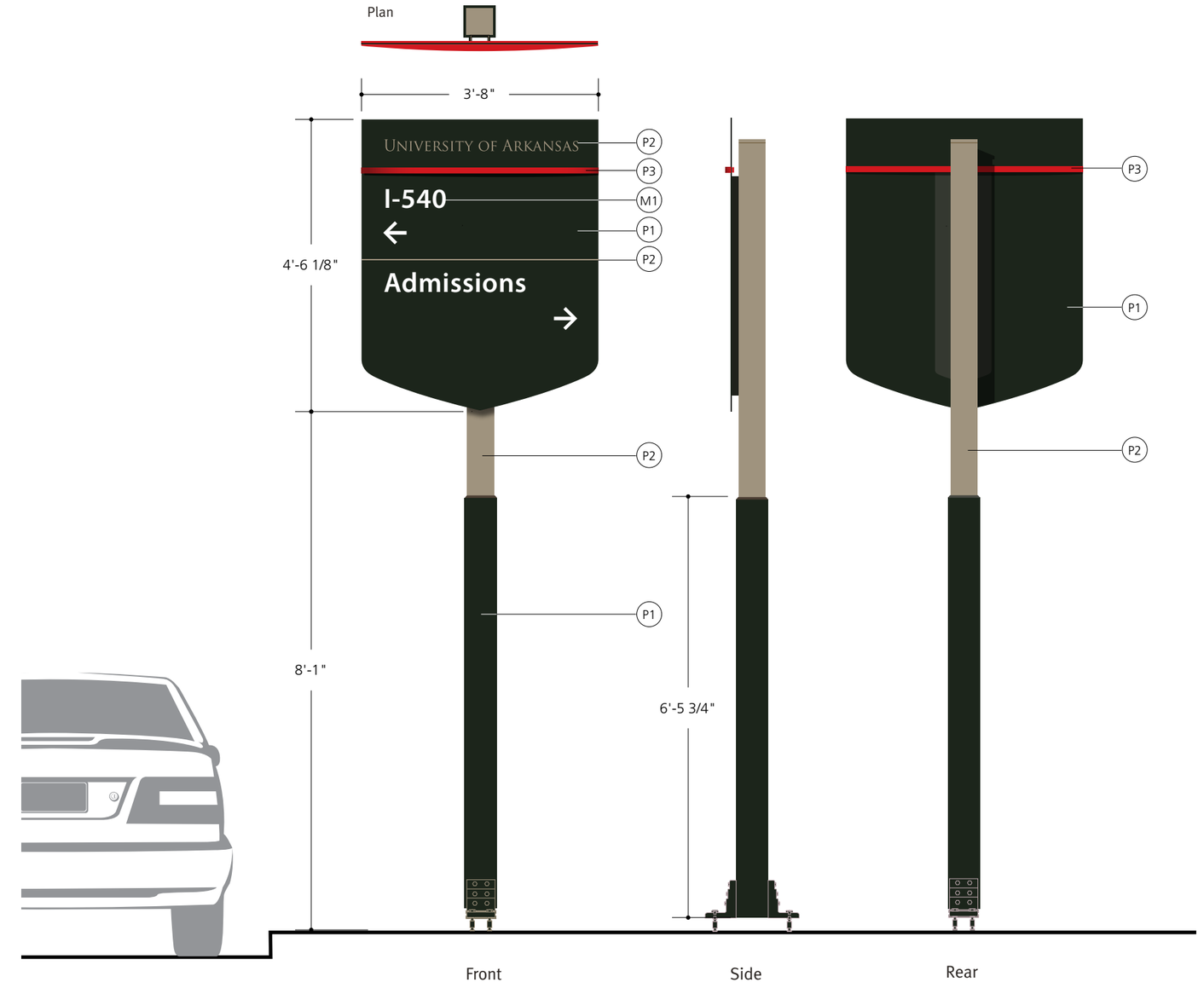
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

Sign Type 5

Vehicular Directional – small
Single-faced



1 Elevations ST5
scale: 1/2 "=1'-0"

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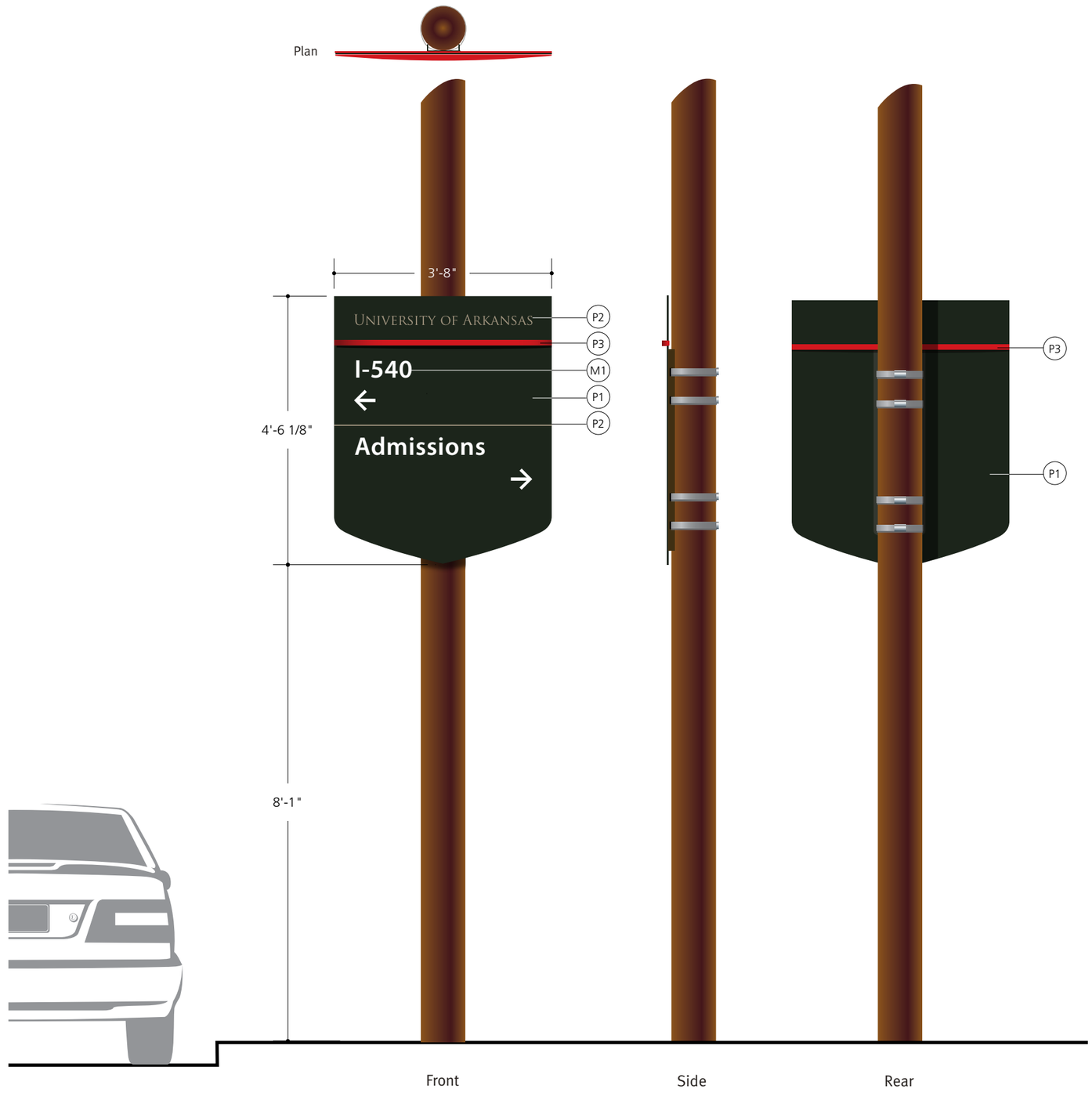
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Elevations ST6
scale: 1/2 "=1'-0"

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Sign Type 6

Vehicular Directional - small, strap-mount
Single-faced

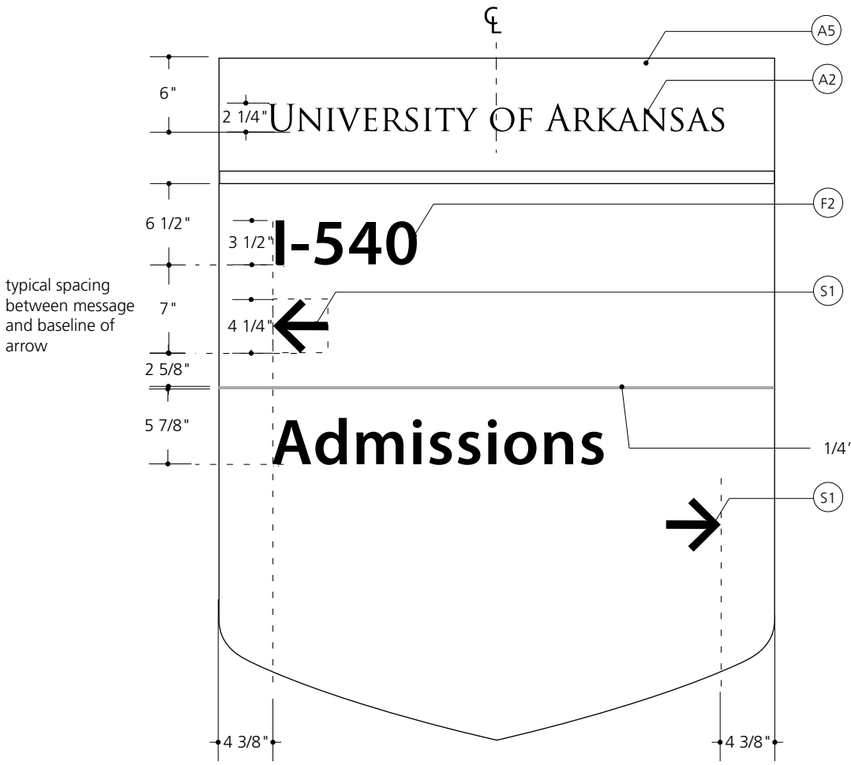
See page 2.18 for mounting hardware details

THIS DRAWING REPRESENTS DESIGN INTENT ONLY.

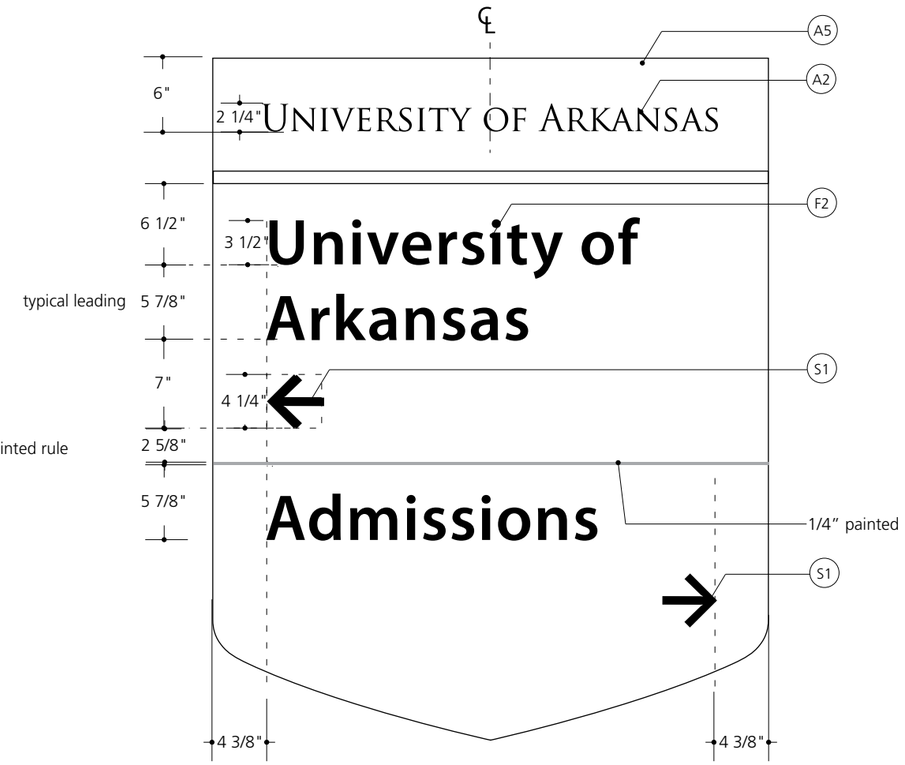
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 ST 5&6 Layout Guideline
scale: 1 "=1'-0"



2 ST 5&6 Alternate Layout Guideline
scale: 1 "=1'-0"

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Sign Types 5 & 6

Vehicular Directional – small, strap-mount, Single-faced

Layout Drawings
Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule

Graphics
Text, graphics and artwork to be mask and sprayed unless otherwise specified.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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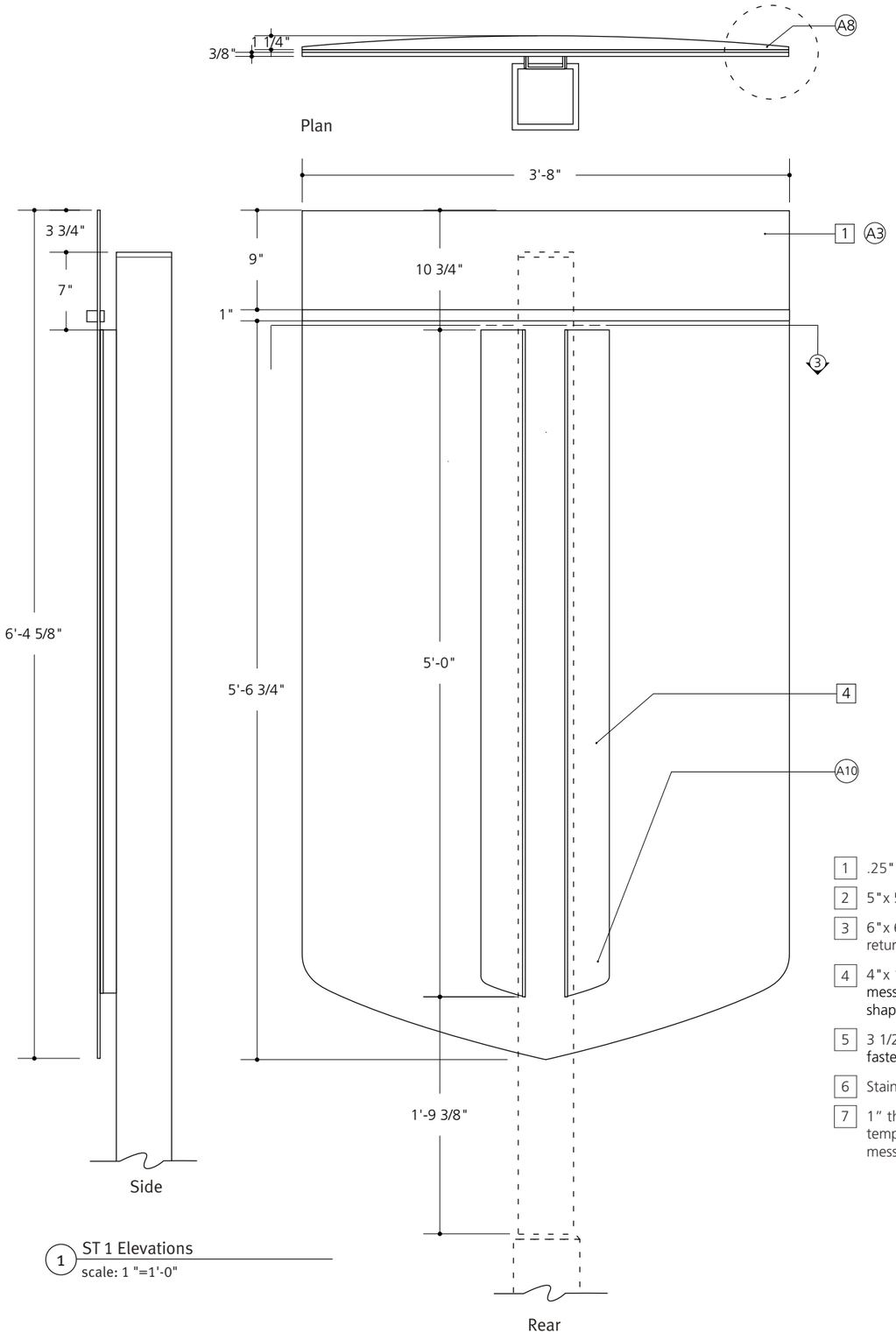
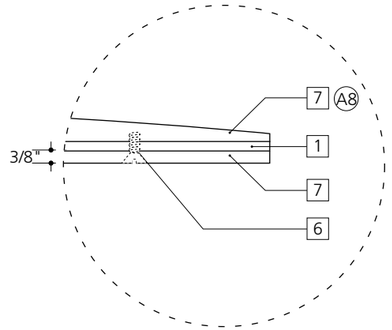
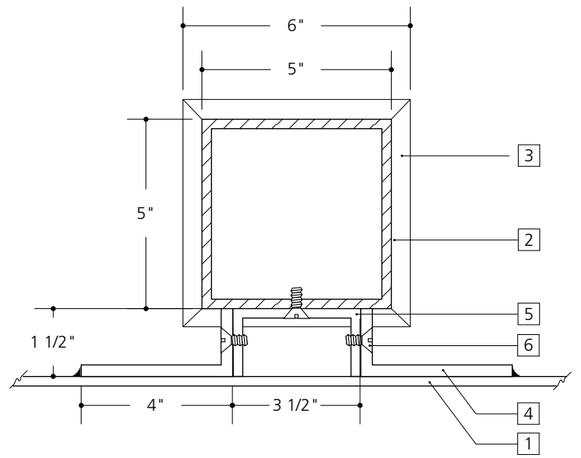
Client/Project		Project No.
University of Arkansas Signage and Wayfinding Program		**714802.6**
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 ST 1 Elevations
scale: 1 "=1'-0"

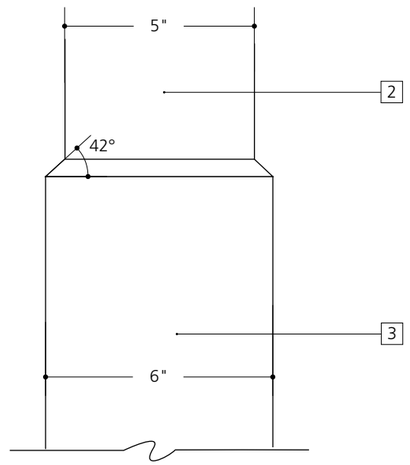


2 Detail - Plan
scale: 3 "=1'-0"



3 Section Plan
scale: 3 "=1'-0"

1. .25" aluminum message panel – Use specified art
2. 5"x 5" x 1/4" wall aluminum extruded tube with top cap
3. 6"x 6" x 1/2" wall aluminum extruded tube with beveled return
4. 4"x 1 1/2" x 1/4" angle aluminum welded to back of message panel, top edge is cut square, bottom edge is shaped to pattern provided
5. 3 1/2"x 1 1/2" x 1/4" aluminum channel mechanically fastened to extruded upright
6. Stainless steel fasteners
7. 1" thick, cut aluminum trim (front side curved - template provided as digital art file) fastened through message panel with fasteners painted to match trim



4 Detail
scale: 3 "=1'-0"

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Sign Type 1

Vehicular Directionals – large
Single-faced

Materials

Vertical support is extruded aluminum tube. Bottom section of tube is wider and welded to top section with beveled edges.

Message panel is heavy-gauge sheet aluminum.

Mounting brackets are aluminum channels and angles. Channels are mechanically fastened to vertical support, angles are welded to the back of the message panels. Mechanically fasten together to mount message panel to support.

Radius strip on message panel is milled aluminum stock mechanically fastened to face.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

Installation

Signs are mounted on Transpo Break–Safe devices (see page 2.17). Fabricator to determine footer dimensions.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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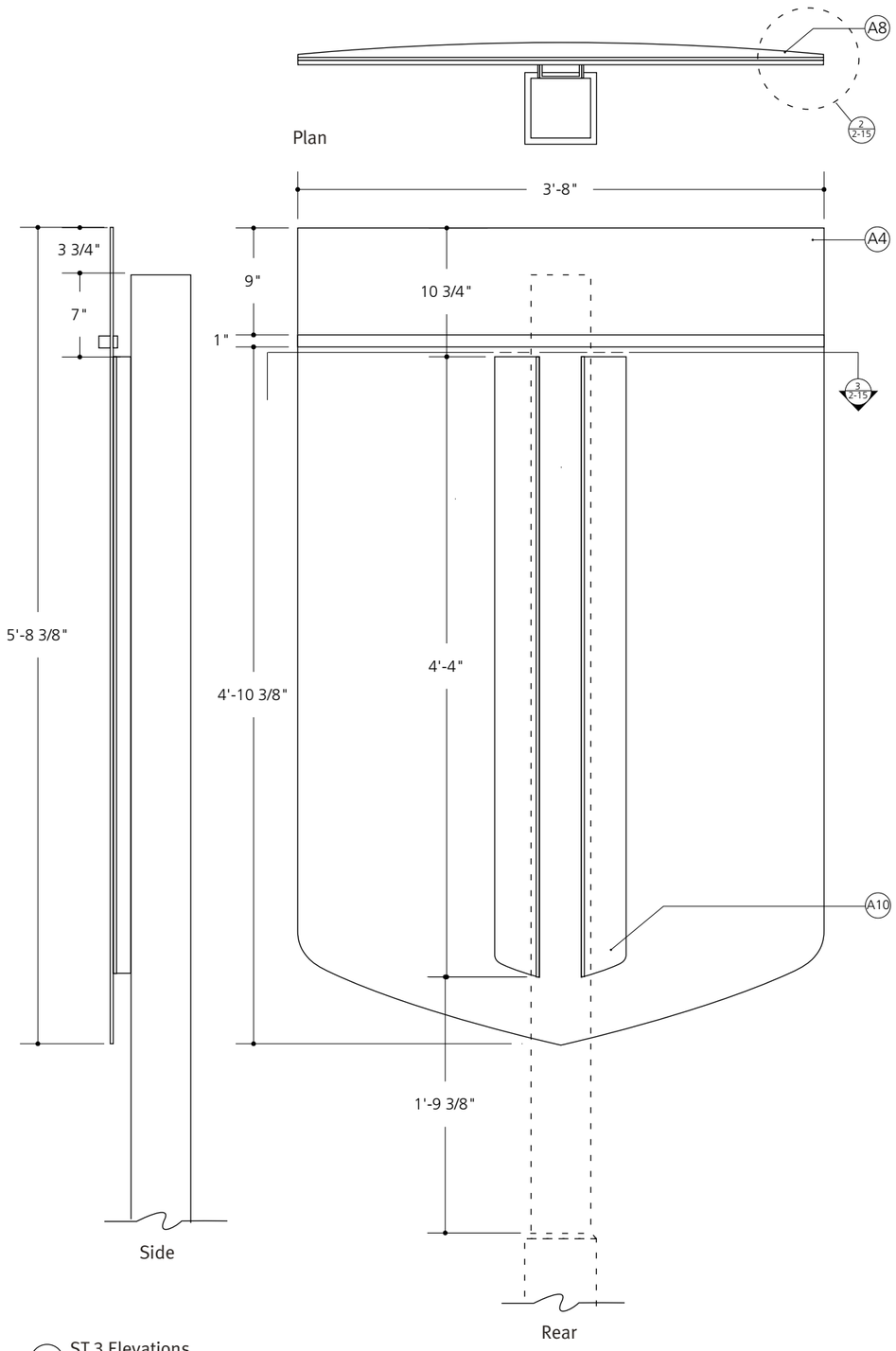
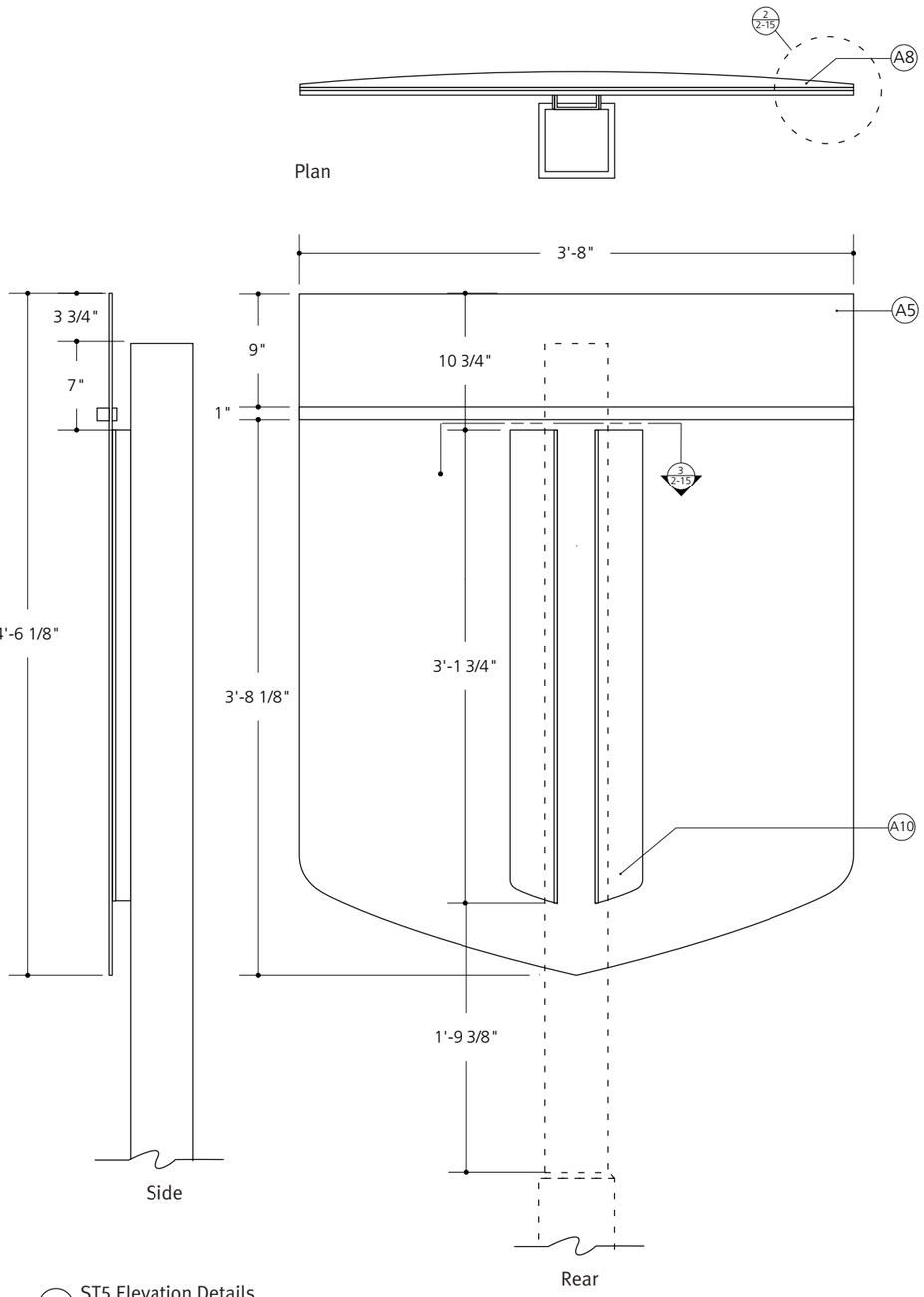
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 ST 3 Elevations
scale: 1 "=1'-0"



2 ST5 Elevation Details
scale: 1 "=1'-0"

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Sign Type 3 & 5

Vehicular Directionals – medium
Single-faced

Materials

Vertical support is extruded aluminum tube. Bottom section of tube is wider and welded to top section with beveled edges.

Message panel (signs are single-faced) are heavy gauge sheet aluminum.

Mounting brackets are aluminum channels and angles. Channels are mechanically fastened to vertical support, angles are welded to the back of the message panels. Mechanically fasten together to mount message panel to support.

Radius strip on message panel is milled aluminum stock mounted to face with short studs and acrylic adhesive.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

Installation

Signs are mounted on Transpo Break–Safe devices (see page 2.17). Fabricator to determine footer dimensions.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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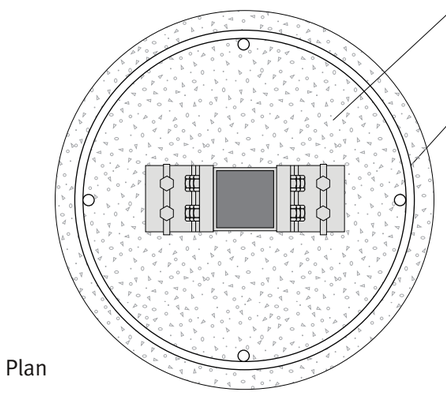
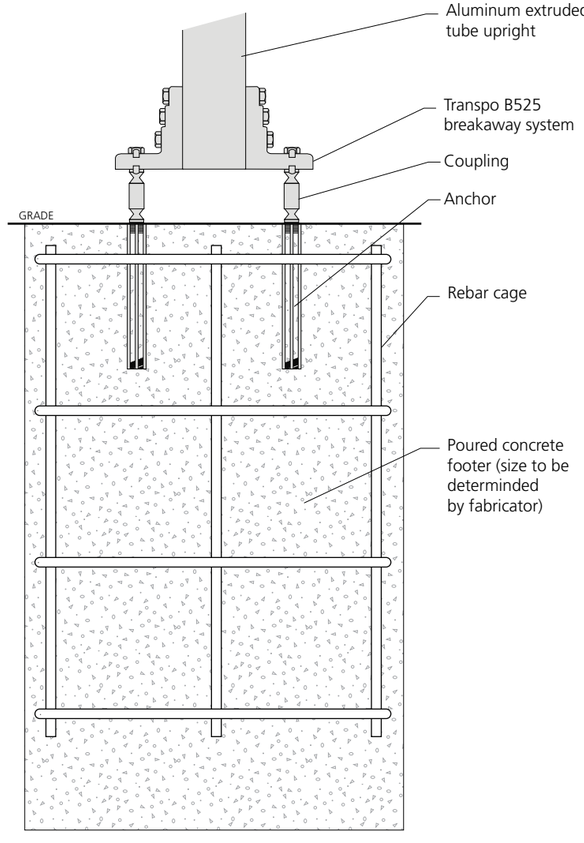
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

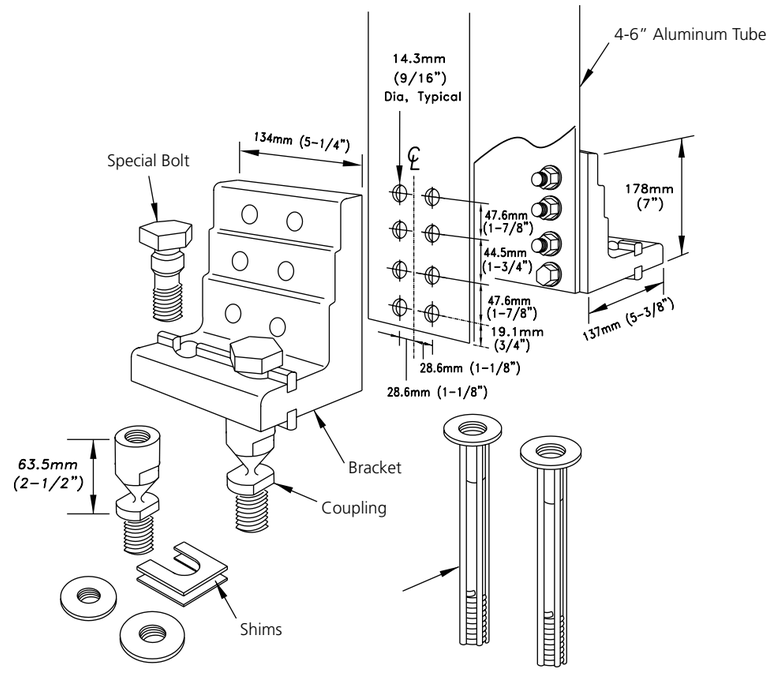
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



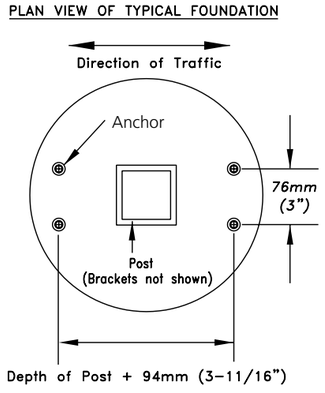
Plan

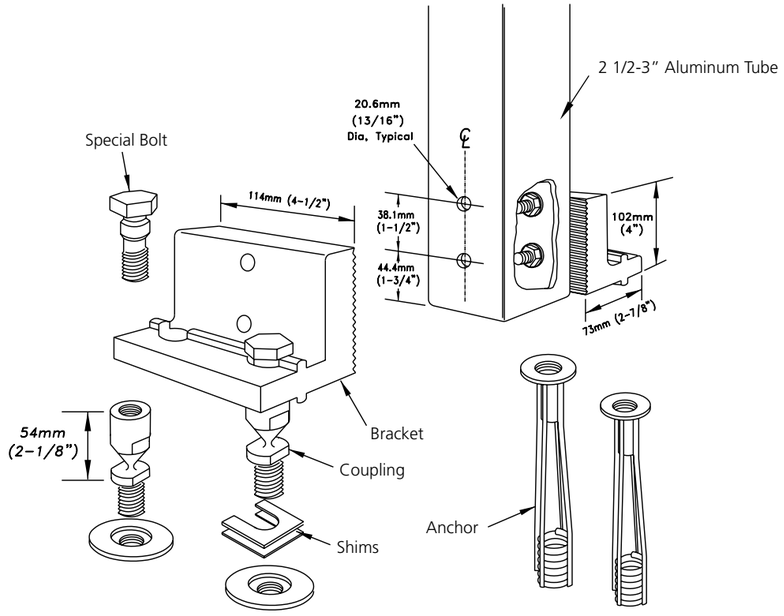


1 Typical Section Detail - Concrete Footer
scale: 3" =1'-0"



2 Typical Detail - B525
scale: n.t.s





3 Typical Detail - AS3
scale: n.t.s

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Sign Types 1, 3, 5, 7, 11

Vehicular Signs
Common Footer Detail

In order to comply with MUTCD and State DOT standards, the B525 or AS3 Transpo Break–Safe system must be used in the installation of vehicular signs in the public corridor.

General specifications are shown on this page as an example, the hardware manufacturer must be consulted prior to use to ensure correct installation.

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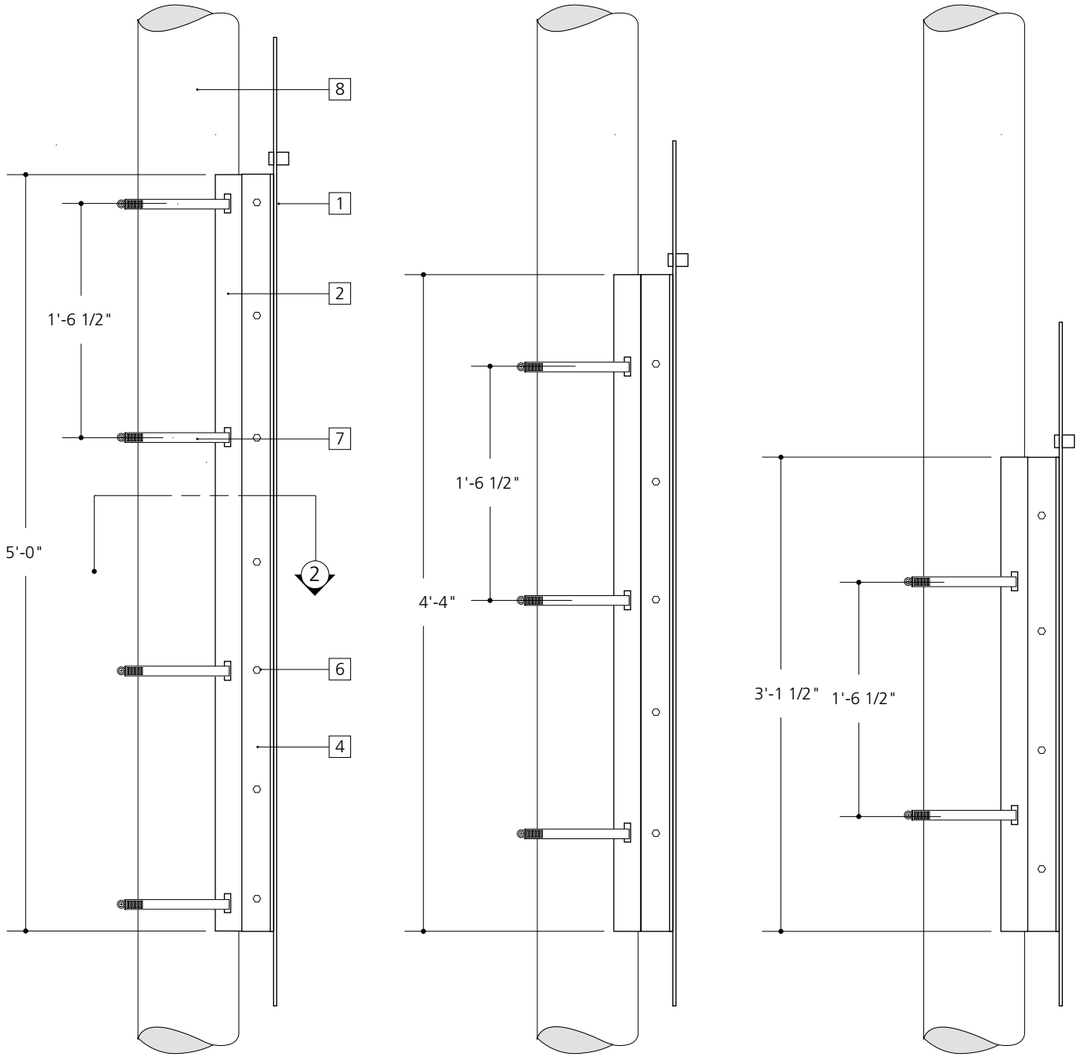
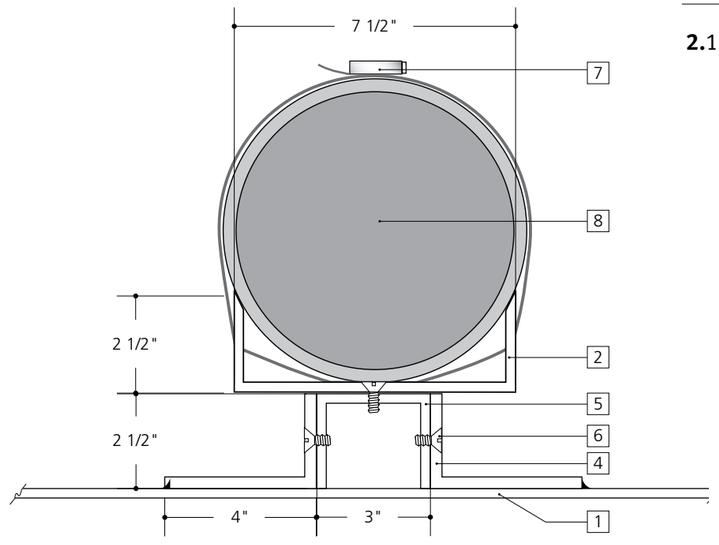
Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



ST2 ST4 ST6

1 Side Elevations
scale: 1"=1'-0"



2 Section - Plan
scale: 3 "=1'-0"

1 1/4" aluminum message panel
2 7 1/2"x 2 1/2" x 1/4" aluminum channel with beveled edge
3 6"x 6" x 1/2" wall aluminum extruded tube with beveled return
4 4"x 2 1/2" x 1/4" angle aluminum welded to back of message panel
5 2 1/2"x 2 1/2" x 1/4" aluminum channel mechanically fastened to channel
6 Stainless steel fasteners
7 Stainless steel strapping band with ratchet tightener
8 Existing post or telephone pole

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Sign Type 2, 4, 6

Vehicular Directional – strap-mount
Single-faced

Materials

Message panels (signs are single-faced) are heavy gauge sheet aluminum.

Mounting brackets are slotted aluminum channels welded to the back of the message panels. Channel brackets are fastened to existing poles with stainless steel ratchet tight banding straps.

Radius strip on message panel is milled aluminum stock mounted to face with short studs and acrylic adhesive.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

Installation

Signs are mounted to existing posts.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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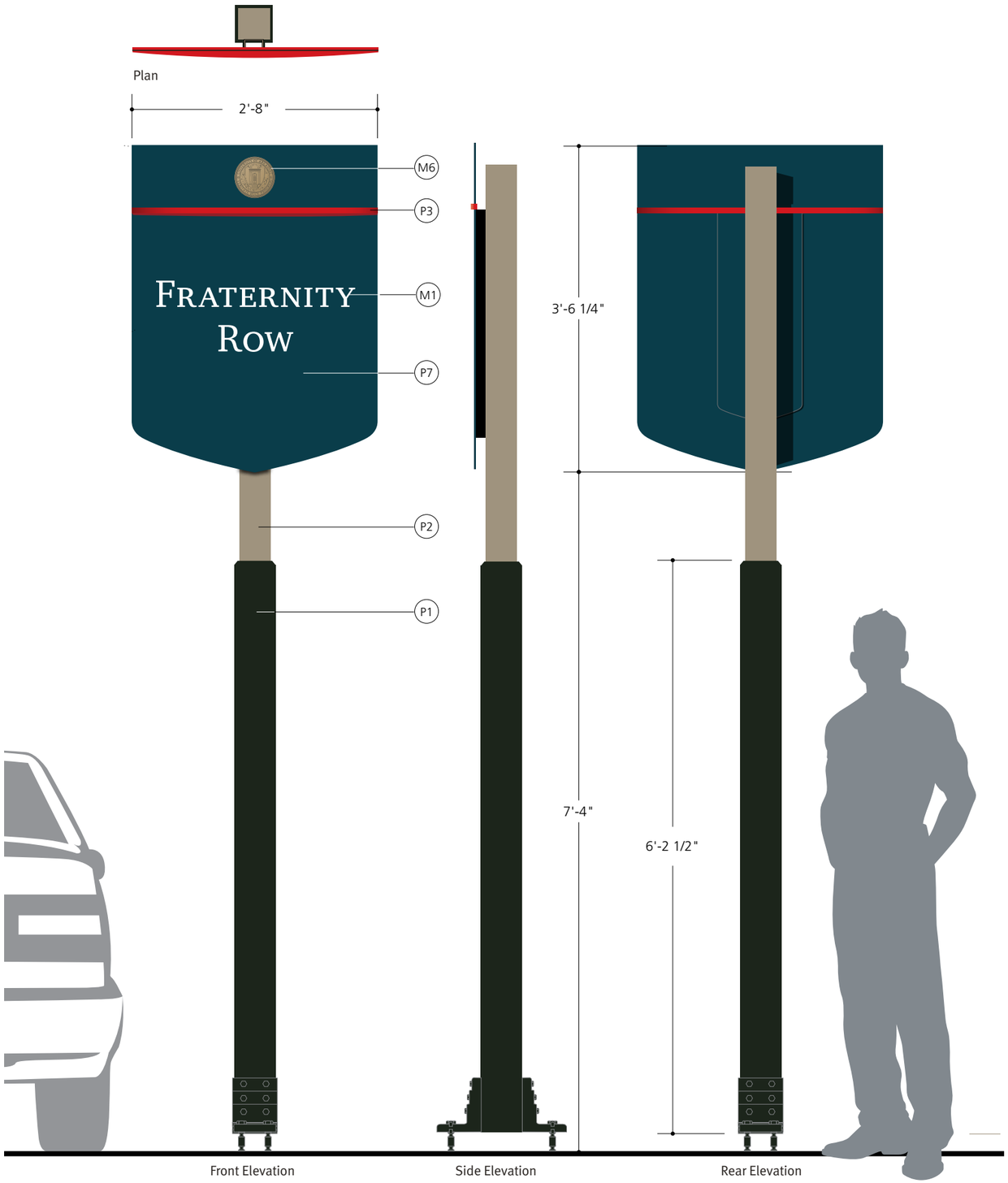
Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Elevation ST7 - Neighborhood Gateway
scale: 3/4 "=1'-0"

2 Additional Elevations ST7 - Neighborhood Gateway
scale: 3/4 "=1'-0"

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2.19 ELEVATION DRAWINGS

Sign Type 7

Neighborhood Gateway
Single-faced

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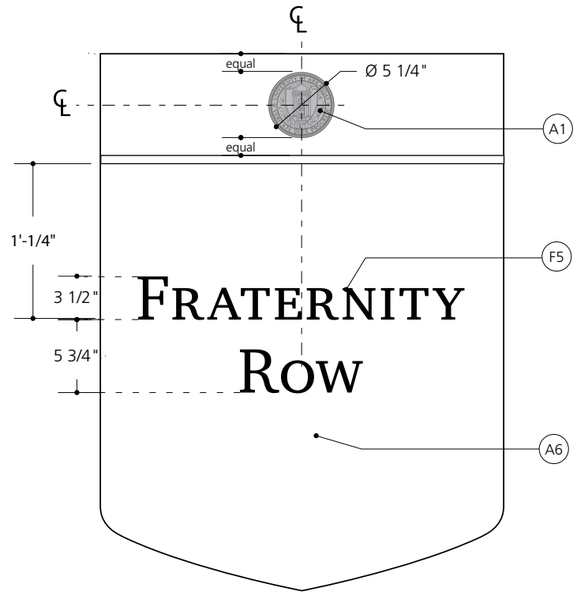
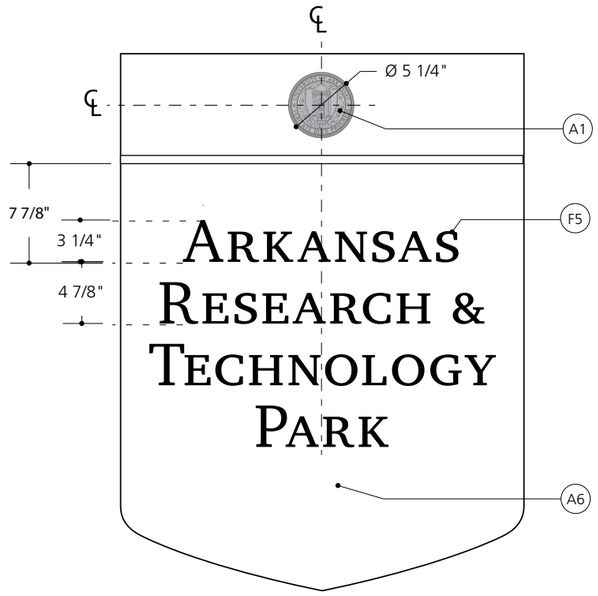
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



center type vertically on
overall height of sign

1 ST 7 Layout
scale: 1 "=1'-0"



2 ST 7 Alternate Layout
scale: 1 "=1'-0"

Sign Type 7

Neighborhood Gateway
Single-faced

Layout Drawings
Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule.

Graphics
Text is reflective vinyl.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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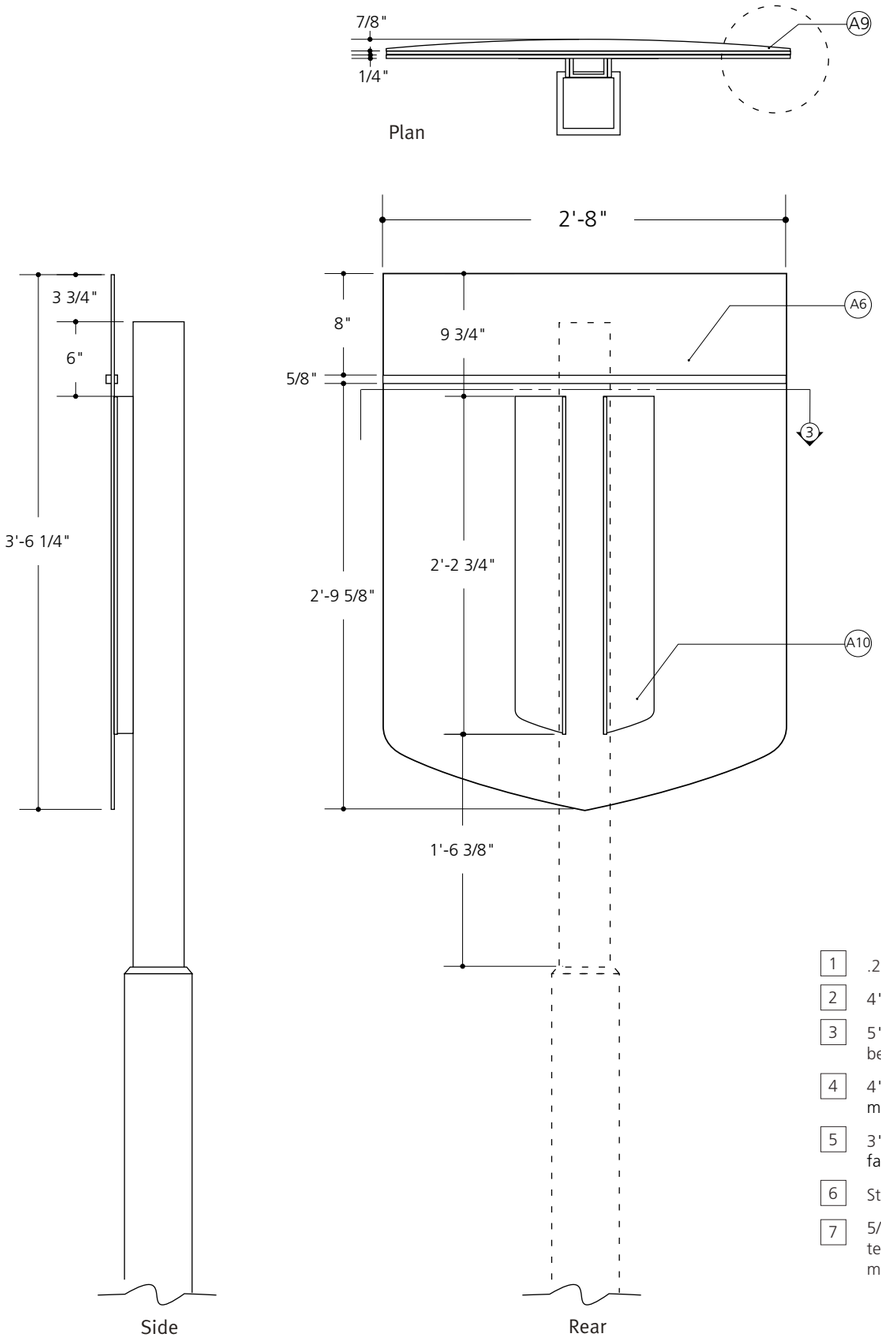
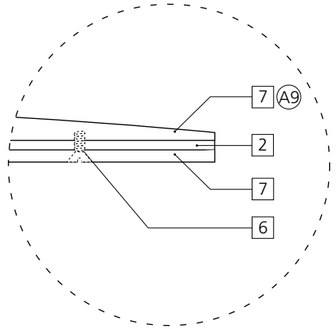
Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

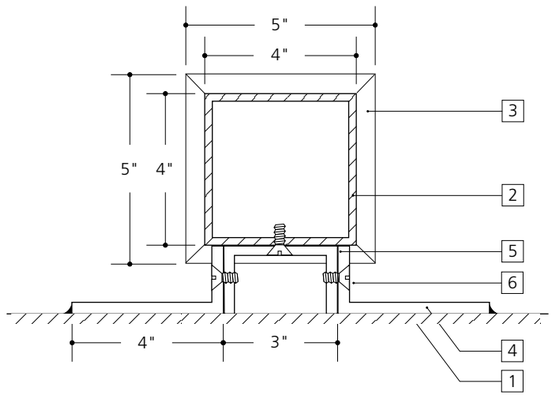
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 ST 7 Details
scale: 1 "=1'-0"

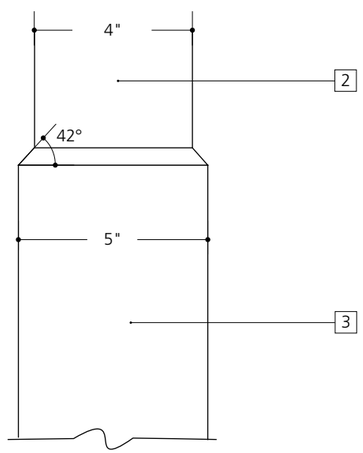


2 Detail - Plan
scale: 3 "=1'-0"



3 Detail - Section Plan
scale: 3 "=1'-0"

1. .25" aluminum message panel
2. 4" x 4" x 1/4" wall aluminum extruded tube
3. 5" x 5" x 1/2" wall aluminum extruded tube with beveled return
4. 4" x 1 1/2" x 1/4" angle aluminum welded to back of message panel
5. 3" x 1 1/2" x 1/4" aluminum channel mechanically fastened to extruded upright
6. Stainless steel fasteners
7. 5/8" thick,cut aluminum trim (front side curved - template provided as digital art file) fastened through message panel with fasteners painted to match trim



4 Detail
scale: 3 "=1'-0"

Sign Type 7

Neighborhood Gateway
Single-faced

Materials

Vertical support is extruded aluminum tube. Bottom section of tube is wider and welded to top section with beveled edges.

Message panel (signs are single-faced) are heavy gauge sheet aluminum.

Mounting brackets are aluminum channels and angles. Channels are mechanically fastened to vertical support, angles are welded to the back of the message panels. Mechanically fasten together to mount message panel to support.

Radius strip on message panels are milled aluminum stock mounted to face with short studs and acrylic adhesive.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

Installation

Signs are mounted on Transpo Break–Safe devices (see page 2.17). Fabricator to determine footer dimensions.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

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University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

1 Elevation ST8
scale: 3/4 "=1'-0"

UNIVERSITY of ARKANSAS

2.22 ELEVATION DRAWINGS

Sign Type 8

Parking ID – large
Double-faced

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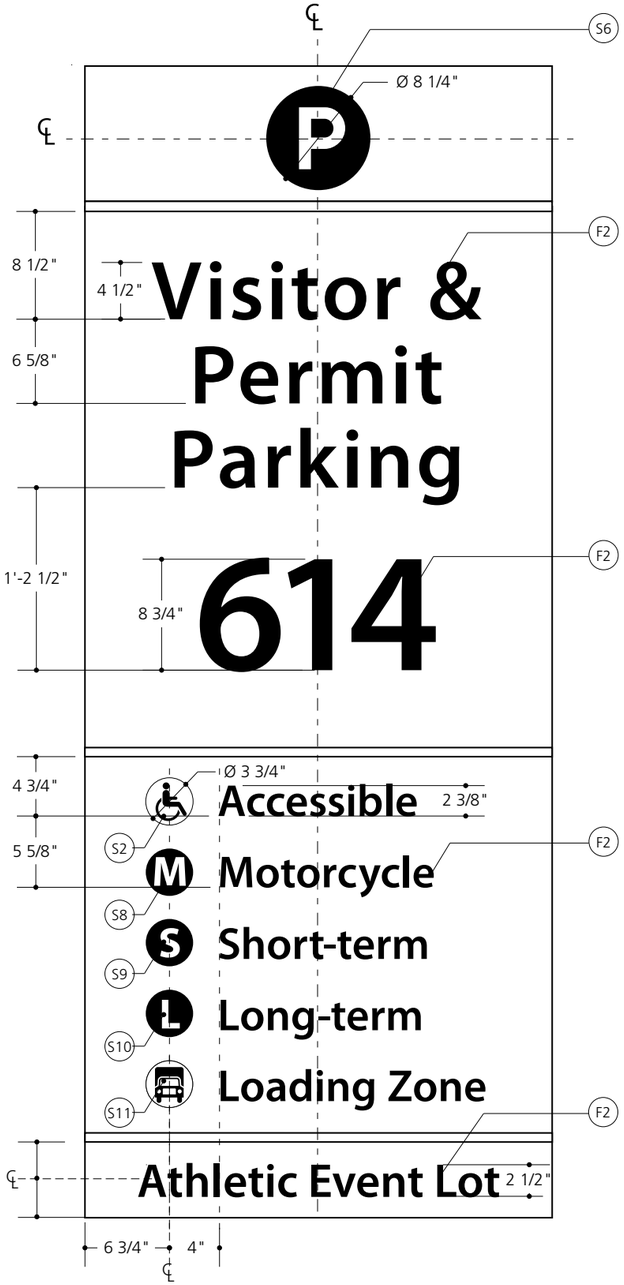
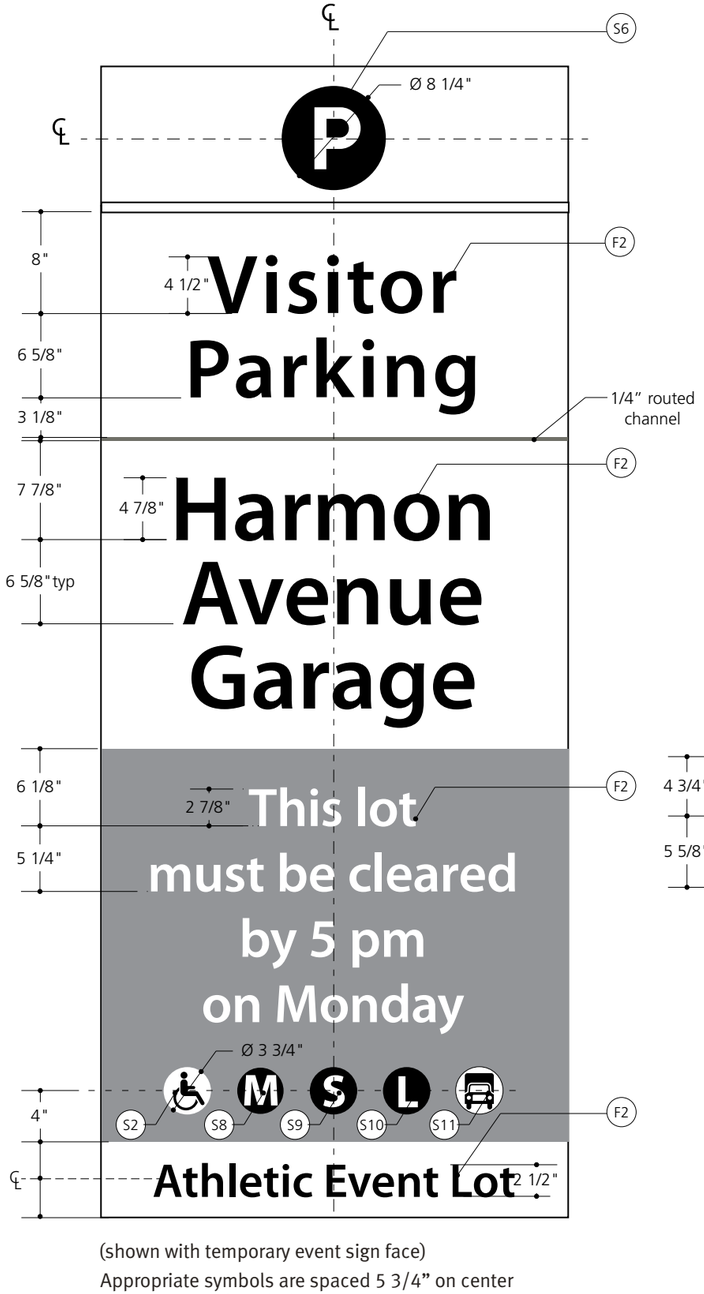
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



Symbols are always listed in the order shown

1 ST8 - Layout Guideline
scale: 1 "=1'-0"



(shown with temporary event sign face)
Appropriate symbols are spaced 5 3/4" on center
Center group of symbols on panel

2 ST8 - Alternative Layout Guideline
scale: 1 "=1'-0"

(shown with shorter list)

3 ST8 - Alternative Layout Guideline
scale: 1 "=1'-0"

Sign Type 8

Parking ID – large
Double-faced

Layout Drawings
Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule

Graphics
Text, graphics and artwork to be mask and sprayed unless otherwise specified.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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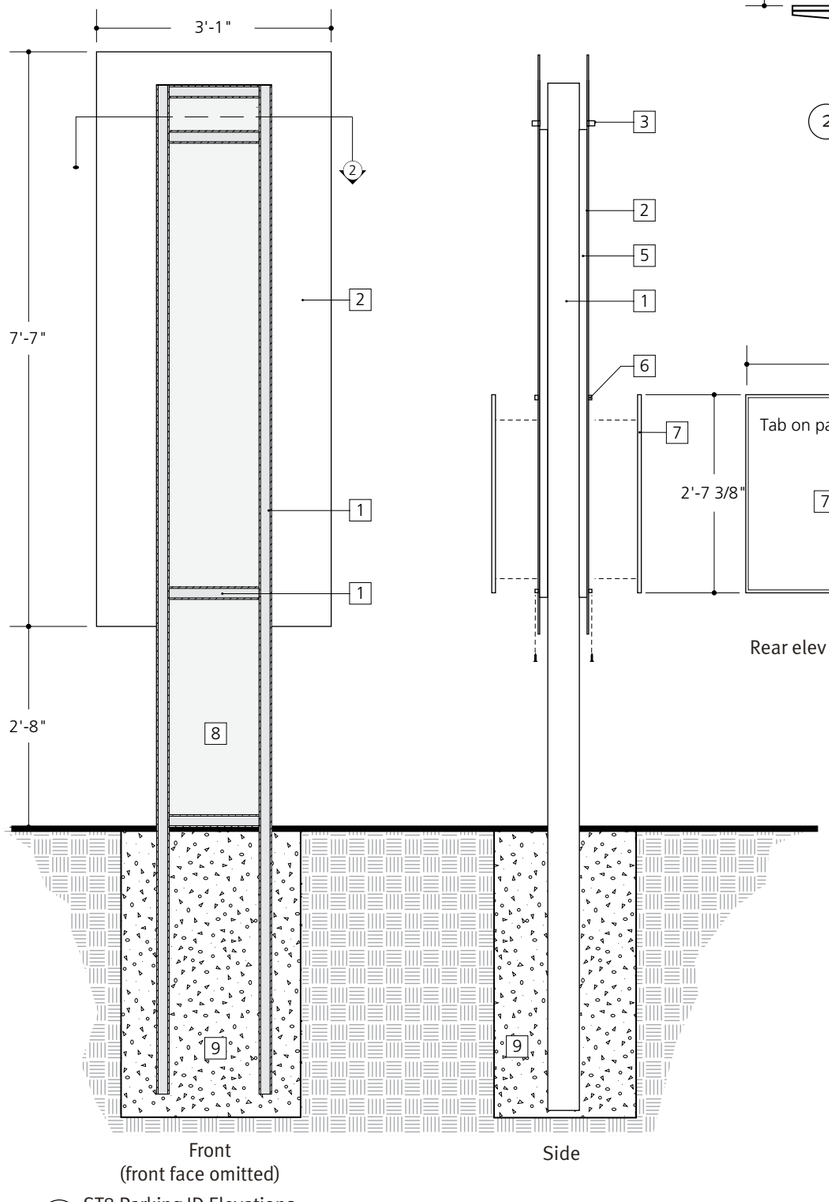
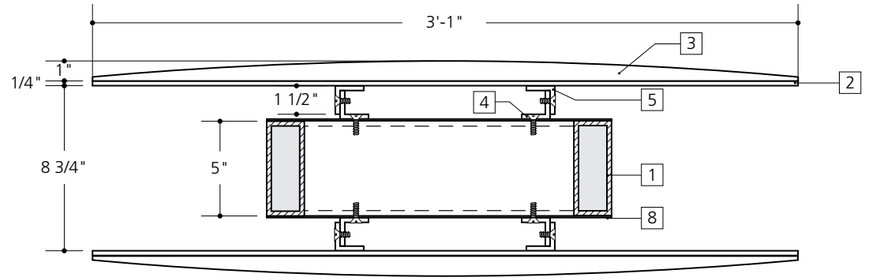
Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

Plan

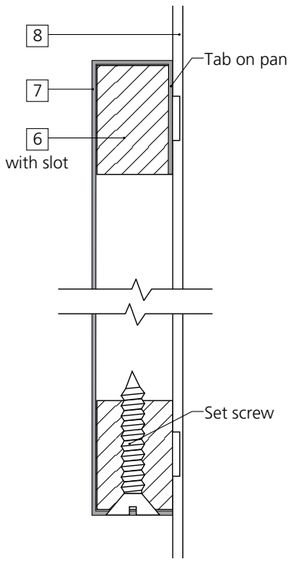


1 ST8 Parking ID Elevations
scale: 1/2 "=1'-0"



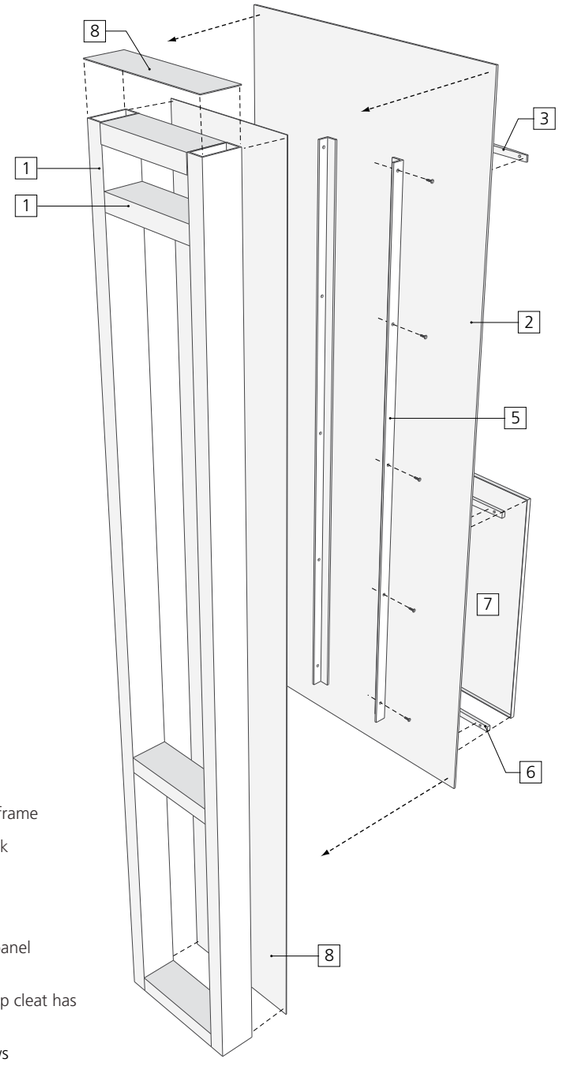
Rear elev of pan

2 Section - Plan
scale: 3 "=1'-0"



4 Section - Detail
full scale

1	2 1/2" x 5" x 1/4" wall aluminum upright extruded tube frame
2	.25" aluminum message panel with angles welded to back
3	3/4" thick milled aluminum plate
4	1/4" thick aluminum angles fastened to tube frame
5	1/4" thick aluminum angles welded to back of message panel angles are mechanically fastened together
6	1/2" thick aluminum cleat fastened to message panel - top cleat has slot to receive tab on pan face
7	.080" removeable aluminum pan - set with tab and screws
8	.125" aluminum sheathing over frame
9	Concrete footers (size TBD by fabricator)



3 Exploded (front face & footer omitted)
n t s

Sign Type 8

Parking ID – large
Double-faced

Materials

Aluminum center cabinet is fabricated with extruded tube frame and cross-bracing. Cabinet faces are sheet aluminum.

Message panels (signs are double-faced) are heavy gauge sheet aluminum.

Mounting brackets are aluminum angles. One set are mechanically fastened to vertical support, the other set are welded to the back of the message panels. Mechanically fasten together to mount message panel to center cabinet.

Radius strip and bar cleats on message panel are milled aluminum stock mounted to face with short studs and acrylic adhesive.

Removable pan is break-formed aluminum and is fastened to cleats with set screws.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

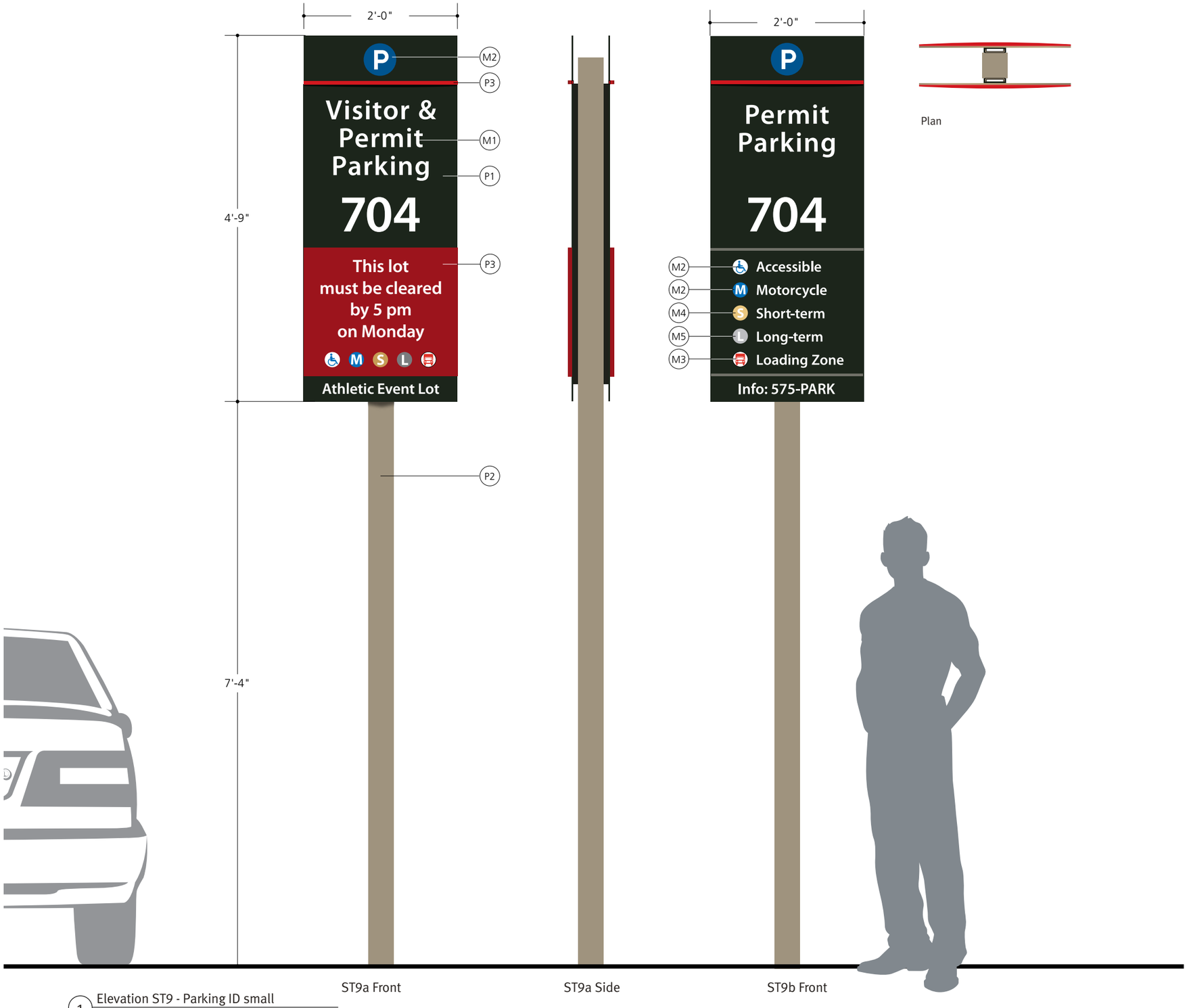
Installation

Sign assembly to be direct burial into poured concrete footers. Fabricator to determine footer dimensions.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Elevation ST9 - Parking ID small
scale: 3/4 "=1'-0"

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2.25 ELEVATION DRAWINGS

Sign Type 9

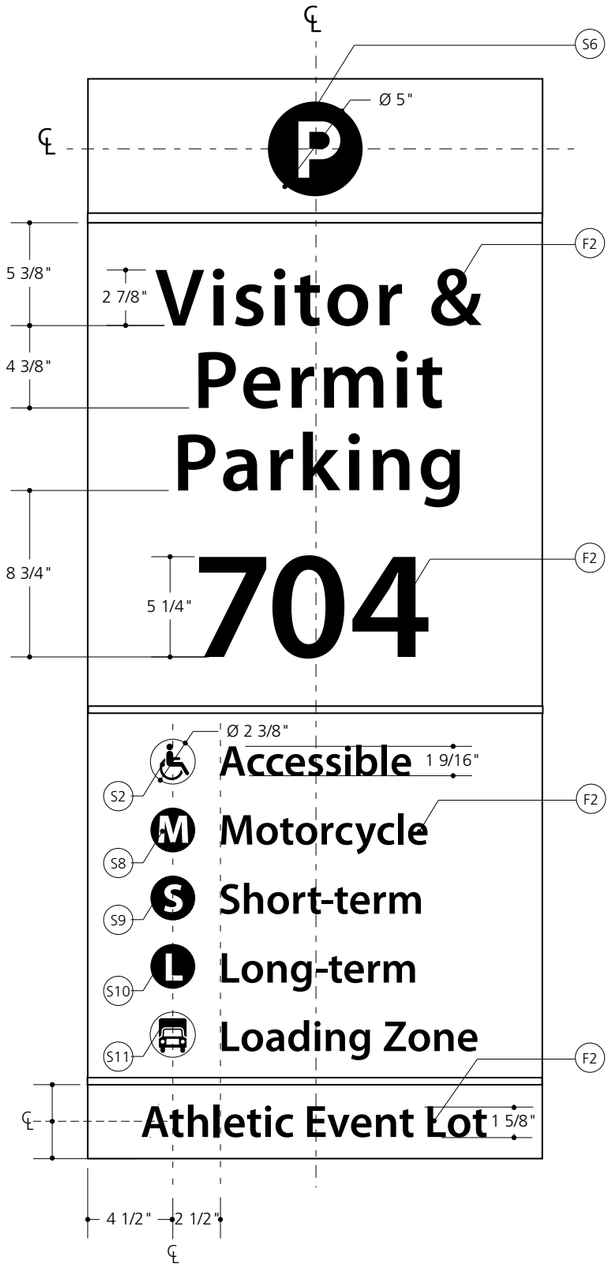
Parking ID – small
Double-faced

THIS DRAWING REPRESENTS DESIGN INTENT ONLY.

FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

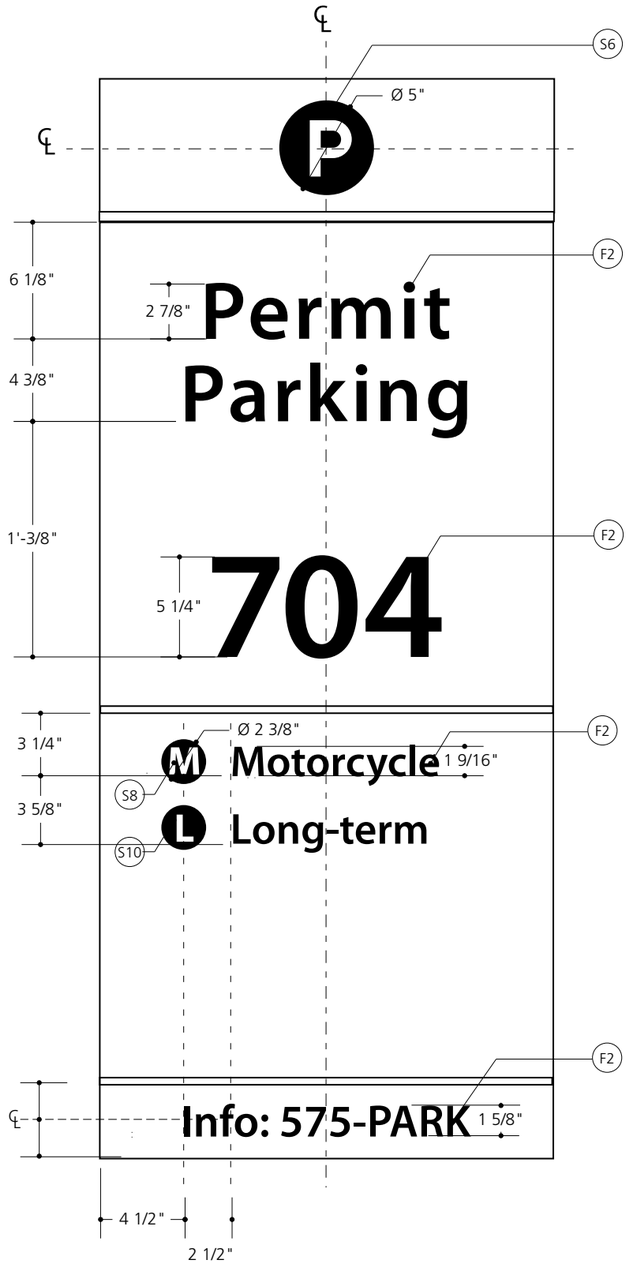


Symbols are always listed in the order shown

1 ST9 - Layout Guideline
scale: 1 1/2"=1'-0"

(temporary event sign face)

Appropriate symbols are spaced 3 3/4" on center
Center group of symbols on panel



2 ST9 - Alternative Layout Guideline
scale: 1 1/2 "=1'-0"

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Sign Type 9

Parking ID – small
Double-faced

Layout Drawings
Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule

Graphics
Text, graphics and artwork to be mask and sprayed unless otherwise specified.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cut-ting machines. Do not attempt to re-draw shapes.

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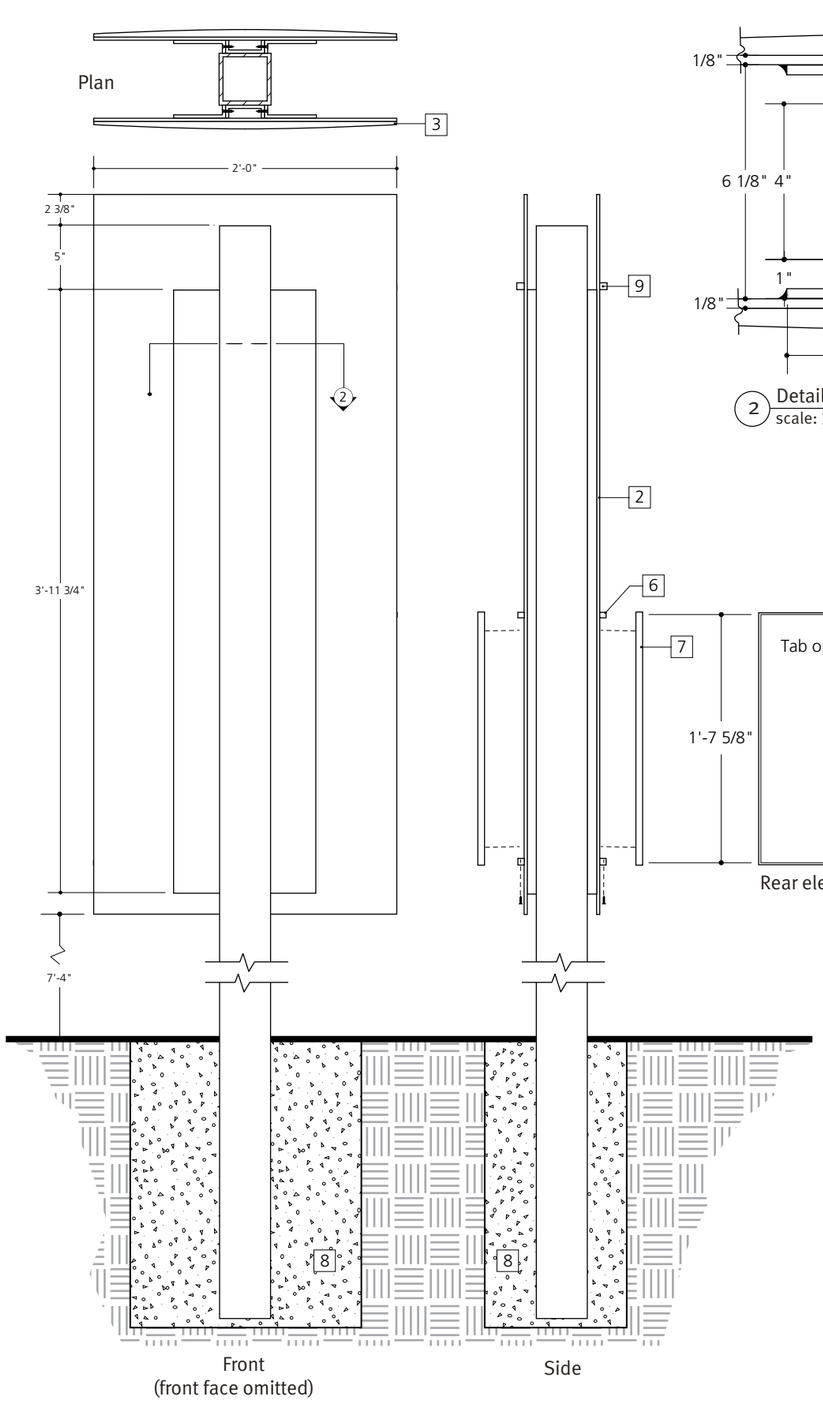
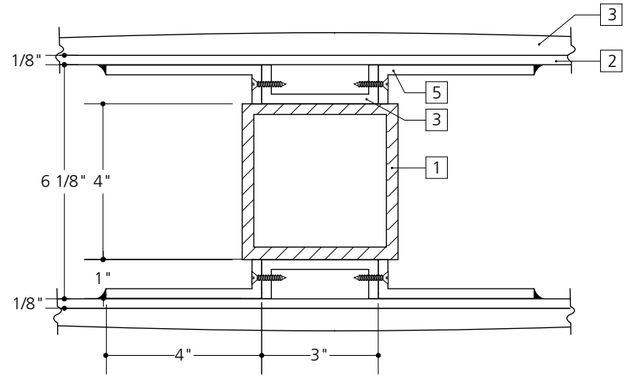
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

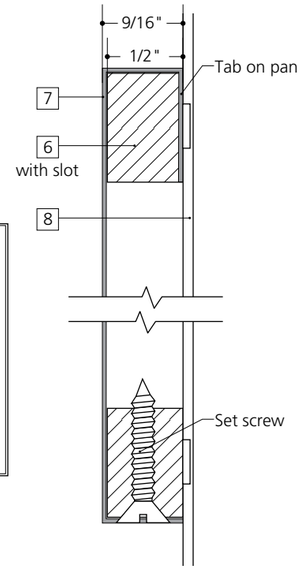
Client/Project		Project No.
University of Arkansas Signage and Wayfinding Program		**714802.6**
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



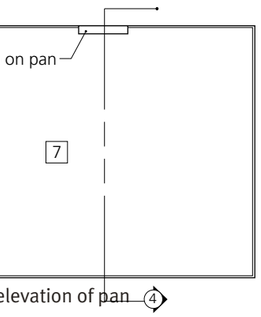
1 ST9 Parking ID Elevations
scale: 1 1/2 "=1'-0"



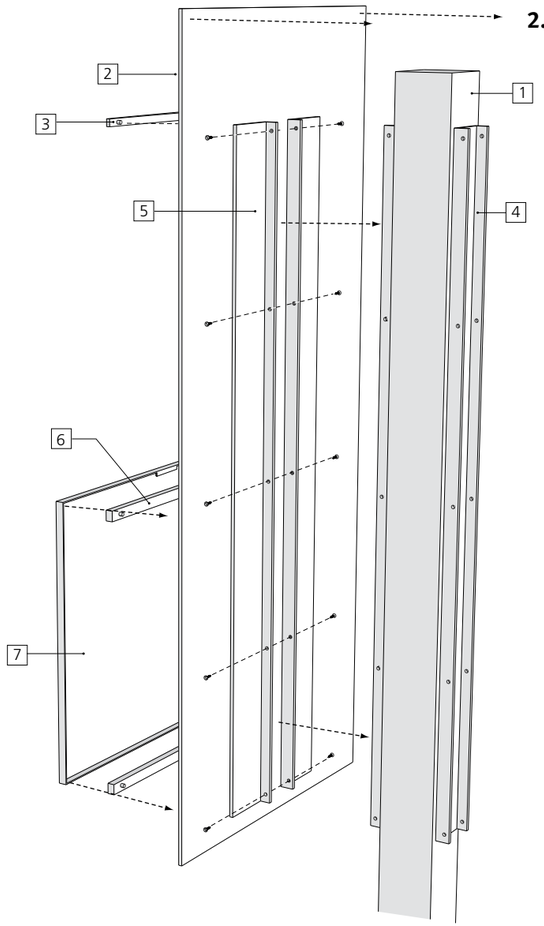
2 Detail - Plan
scale: 3 "=1'-0"



4 Section - Detail
full scale



1 4" x 4" x 1/4" wall aluminum upright extruded tube
2 .25" aluminum message panel with angles welded to back
3 1/2" thick milled aluminum plate
4 3" x 1" x 1/4" aluminum channel fastened to upright
5 1/4" thick aluminum angles welded to back of message panel
6 1/2" thick aluminum cleat fastened to message panel - top cleat has slot to receive tab on pan face
7 .080" removable aluminum pan – set with tab and screws
8 Concrete footers (size TBD by fabricator)



3 Exploded (front face omitted)
n t s

5 ST9 curved plate template
scale: 1 1/2 "=1'-0"

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Sign Type 9

Parking ID – small
Double-faced

Materials

Vertical support is extruded aluminum tube.

Message panel (signs are single-faced) are heavy gauge sheet aluminum.

Mounting brackets are aluminum channels and angles. Channels are mechanically fastened to vertical support, angles are welded to the back of the message panels. Mechanically fasten together to mount message panel to support.

Radius strip and bar cleats on message panel are milled aluminum stock mounted to face with short studs and acrylic adhesive.

Removable pan is break-formed aluminum and is fastened to cleats with set screws on bottom only.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

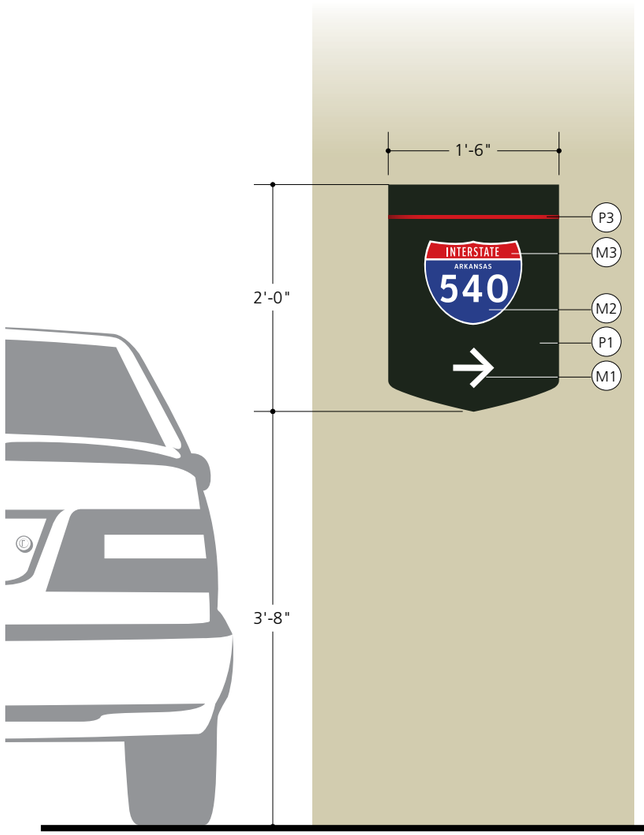
Installation

Sign assembly to be direct burial into poured concrete footers. Fabricator to determine footer dimensions.

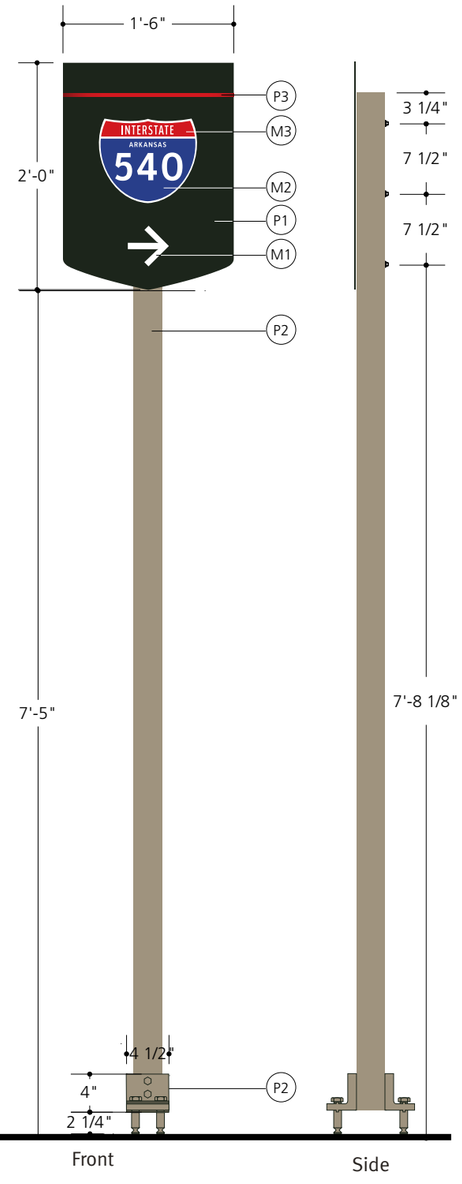
Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

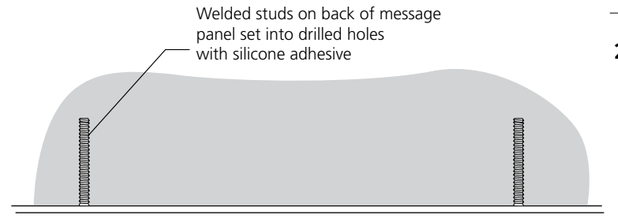
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



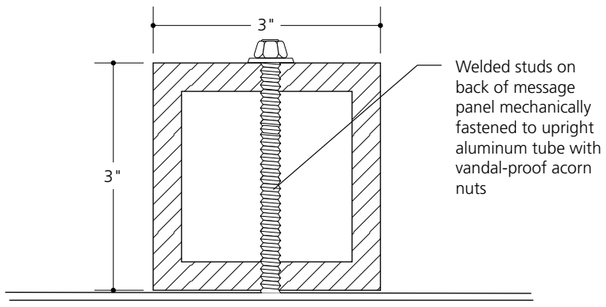
1 Elevation ST10 - Interstate Trailblazer (wall-mounted)
scale: 3/4 "=1'-0"



2 Elevation ST11 - Interstate Trailblazer (post-mounted)
scale: 3/4 "=1'-0"



3 Plan - wall mounting
half scale



4 Section/Plan - post mounting
half scale

Sign Type 10 & 11

Interstate Trailblazer

ST10 Single-faced wall-mounted

ST11 Single-faced freestanding sign

Materials

Message panels (signs are single-faced) are heavy gauge sheet aluminum.

Mounting brackets are aluminum angles. One set are mechanically fastened to vertical support, the other set are welded to the back of the message panels. Mechanically fasten together to mount message panel to center cabinet.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

Installation

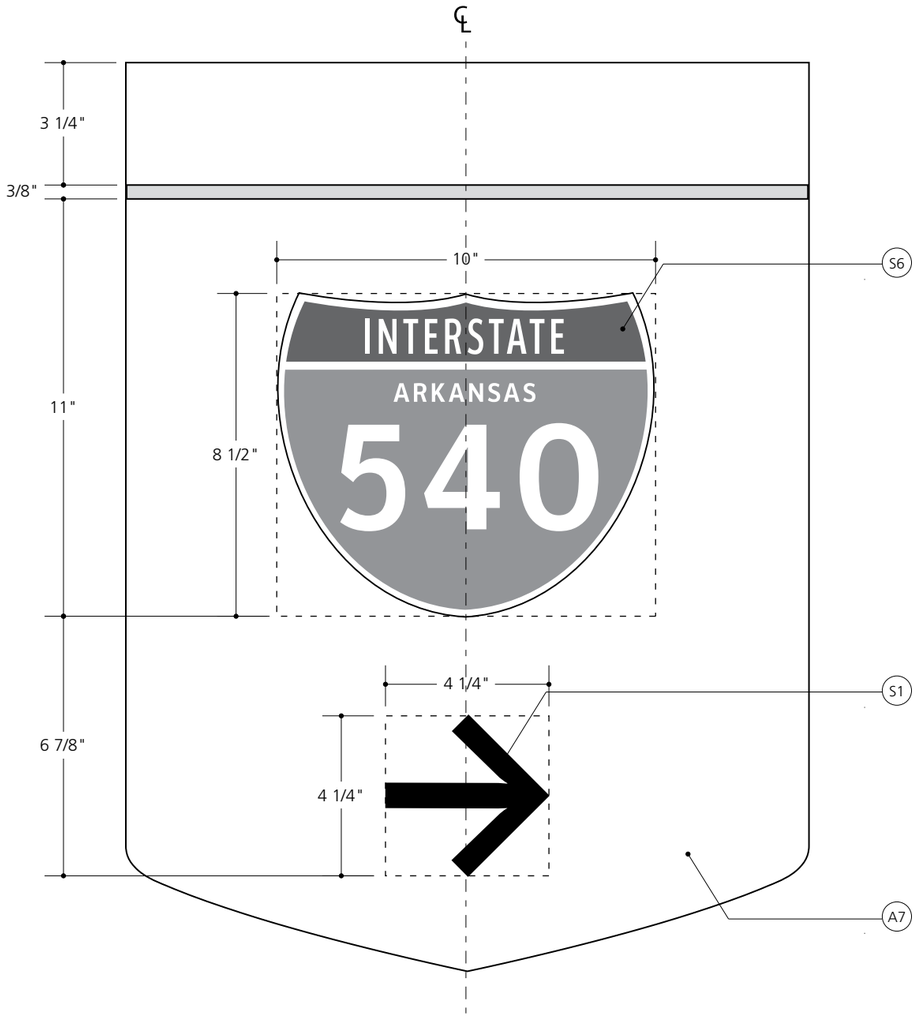
Signs are mounted on Transpo Break–Safe devices (see page 2.17). Fabricator to determine footer dimensions.

THIS DRAWING REPRESENTS DESIGN INTENT ONLY.

FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 ST10&11 - Layout Guideline
scale: 3"=1'-0"

Sign Type 10 & 11

Interstate Trailblazer
Single-faced

Layout Drawings
Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule.

Graphics
Text, graphics and artwork to be mask and sprayed unless otherwise specified.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

1 Elevation ST20 - Pedestrian Directional
scale: 1 1/2 "=1'-0"

Plan

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2.30 ELEVATION DRAWINGS

Sign Type 20

Pedestrian Directional
Double-faced

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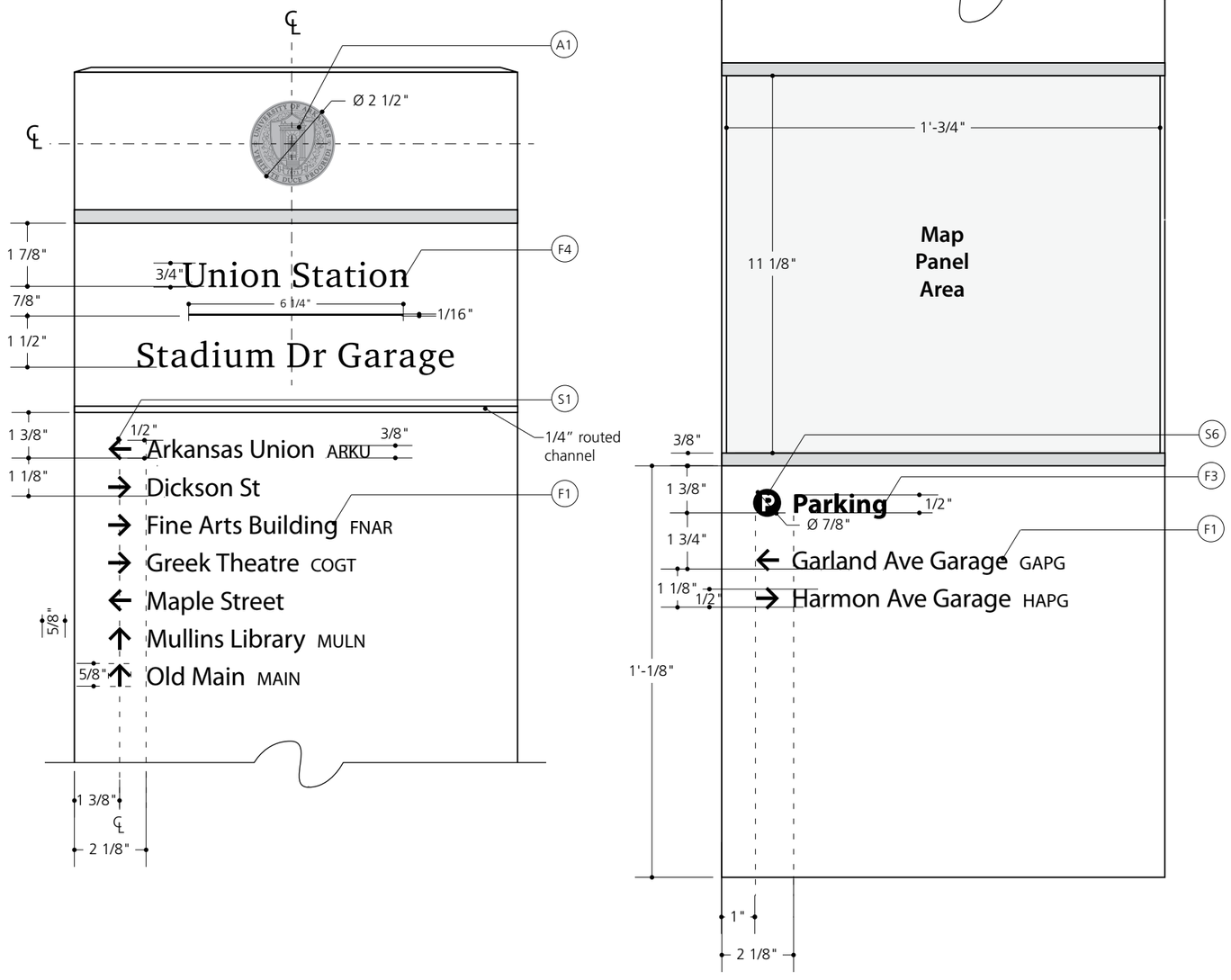
Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 ST20 - Layout Guideline
scale: 3 "=1'-0"

Sign Type 20

Pedestrian Directional
Double-faced

Layout Drawings

Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule.

Graphics

Text, graphics and artwork to be mask and sprayed unless otherwise specified.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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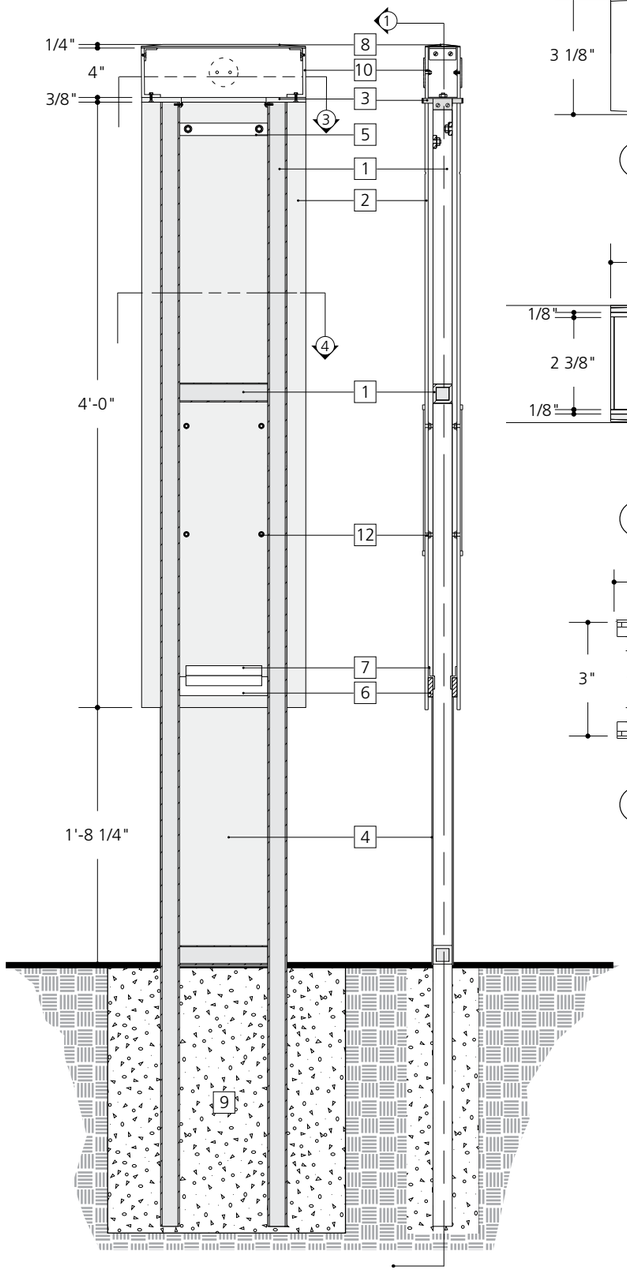
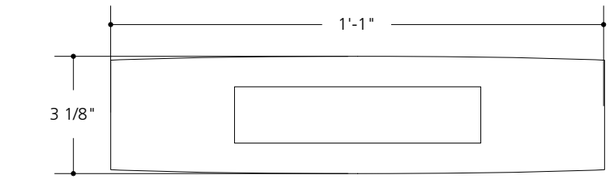
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

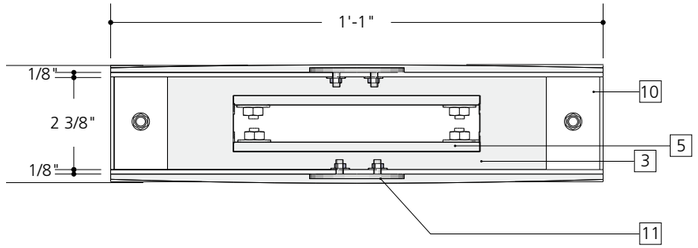
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



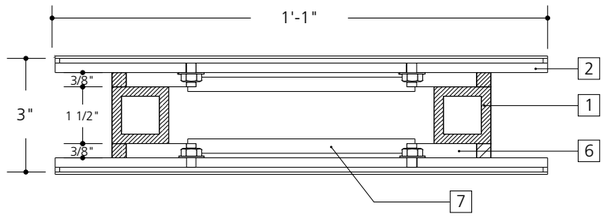
1 Elevation ST30 - Building ID large
scale: 1"=1'-0"



2 Plan view – ST20 cast bronze plate
scale: 3"=1'-0"

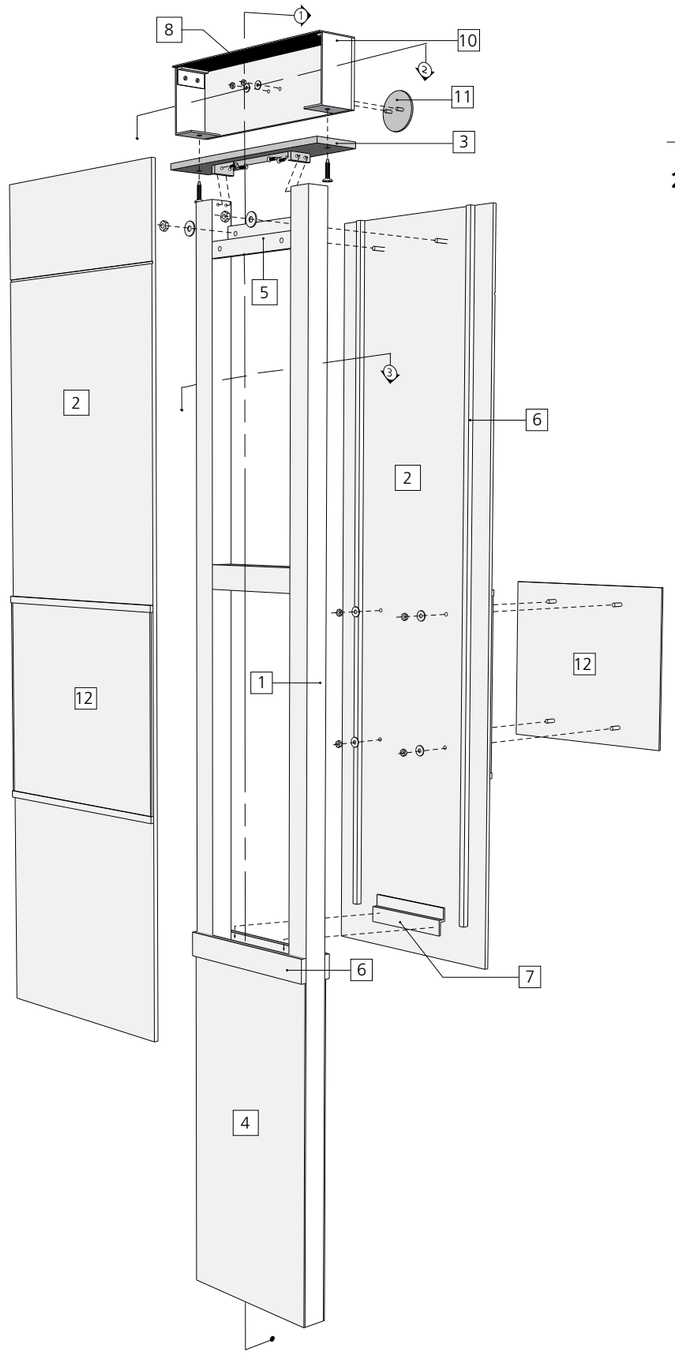


3 Section
scale: 3"=1'-0"



4 Section
scale: 3"=1'-0"

1 1 1/2" x 1 1/2" x 1/4" wall aluminum extruded tube
2 .25" aluminum message panel with welded studs
3 Cast bronze plate mechanically fastened to tubes
4 .090 aluminum cabinet faces
5 1/4" thick aluminum bar stock
6 3/8" thick aluminum bar stock
7 Z-clip blind fastener cleat
8 Beveled aluminum cap with angle clips
9 Concrete footers (size TBD by fabricator)
10 Cap assembly fastened to bronze plate (removable for disassembly access)
11 3/16" thick etched zinc seal fastened to cap assembly
12 Printed aluminum map panel fastened to message panel with welded studs



5 Exploded (front face of cap omitted)
nts

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Sign Type 20

Pedestrian Directional
Double-faced

Materials

Aluminum center cabinet is fabricated with extruded tube frame and cross-bracing. Cabinet faces are sheet aluminum.

Top cabinet is separate aluminum construction, mechanically fastened to center plate. Top cap is milled aluminum plate with welded tabs for mechanical fastening to cabinet. University seal is etched zinc and mechanically fastened to top cabinet.

Map is CMYK graphic baked to aluminum panels with studs mounted to back.

Systeme Huntingdon Inc.
systemeinc.com
450.264.6146

Center plate is cast bronze, mechanically fastened to structure.

Message panel is heavy gauge aluminum sheet with welded studs and welded z-clip cleat for blind fastening. Message panel is mechanically fastened to frame structure. Panel has alum bar stock shims to create floating effect from cabinet.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors. Bronze has bright satin finish with horizontal directional brush.

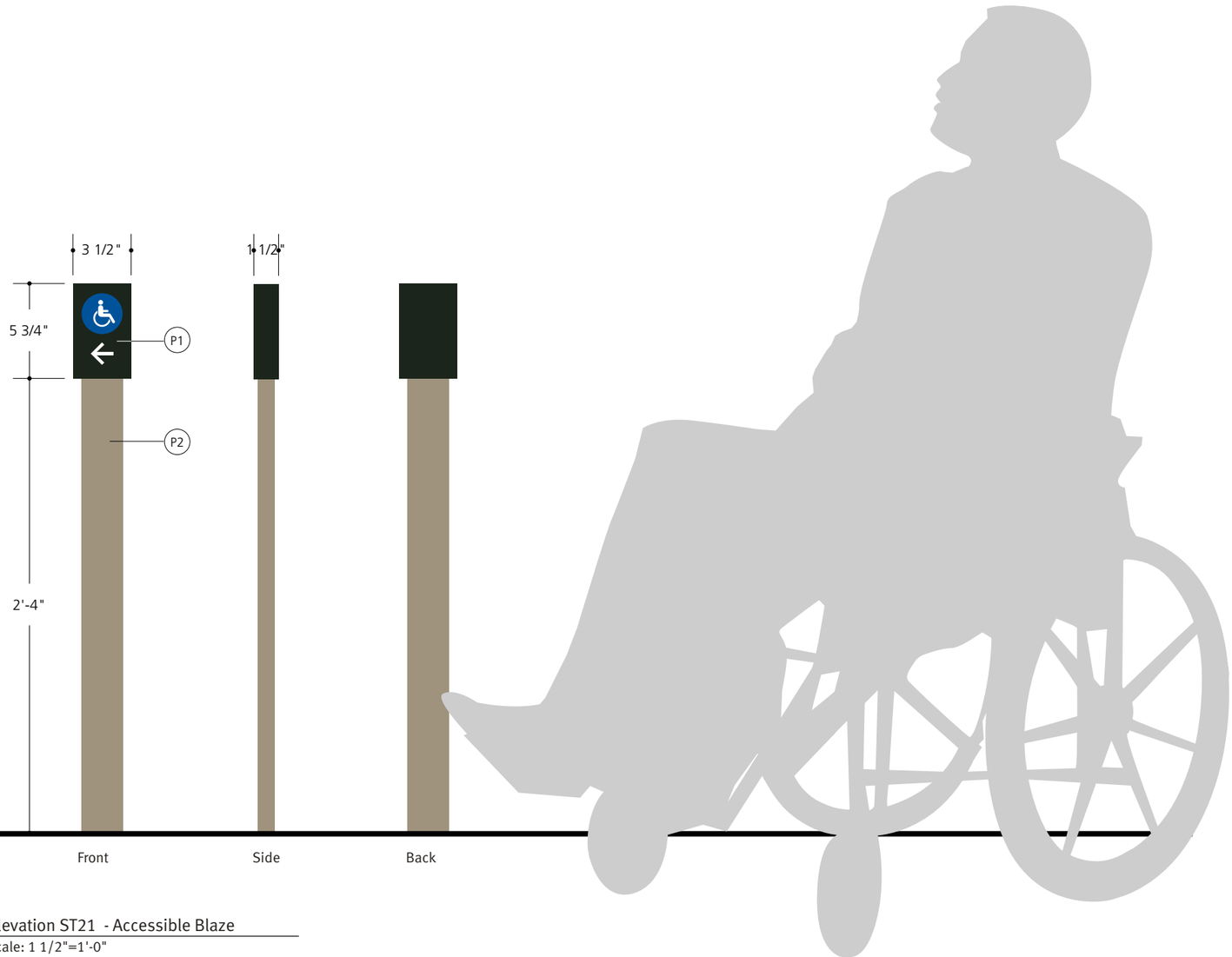
All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

Installation

Sign assembly to be direct burial into poured concrete footers. Fabricator to determine footer dimensions.

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Elevation ST21 - Accessible Blaze
scale: 1 1/2"=1'-0"

Layouts

Sign Type 21

Accessible Blaze
Single-faced

Materials
Sign is manufactured with nesting extruded aluminum tubes. Weld tubes together and cap with aluminum sheathing.

Graphics
Text, graphics and artwork to be mask and sprayed unless otherwise specified.

Finishes
All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

Installation
Sign assembly to be direct burial into poured concrete footers. Fabricator to determine footer dimensions.

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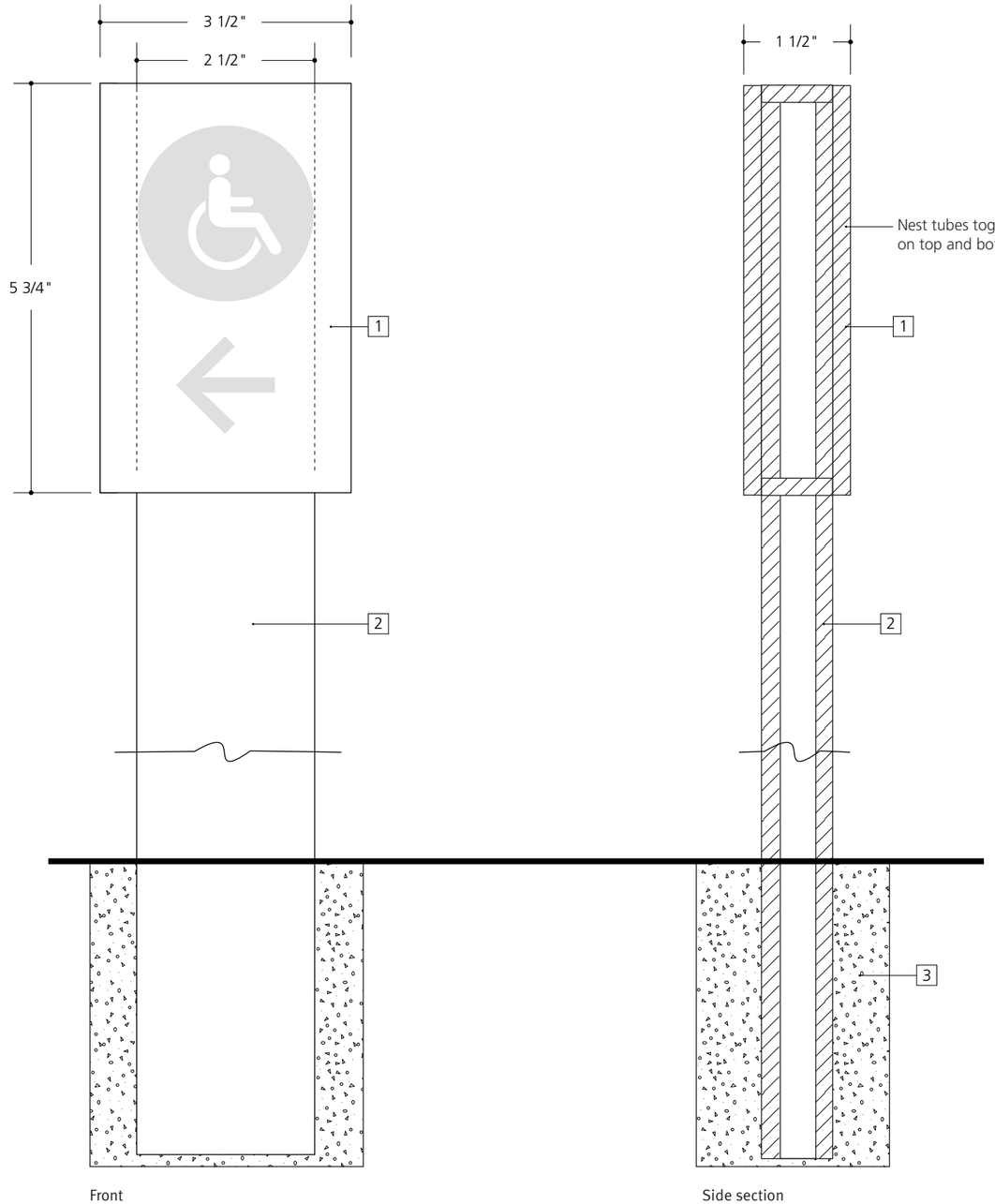
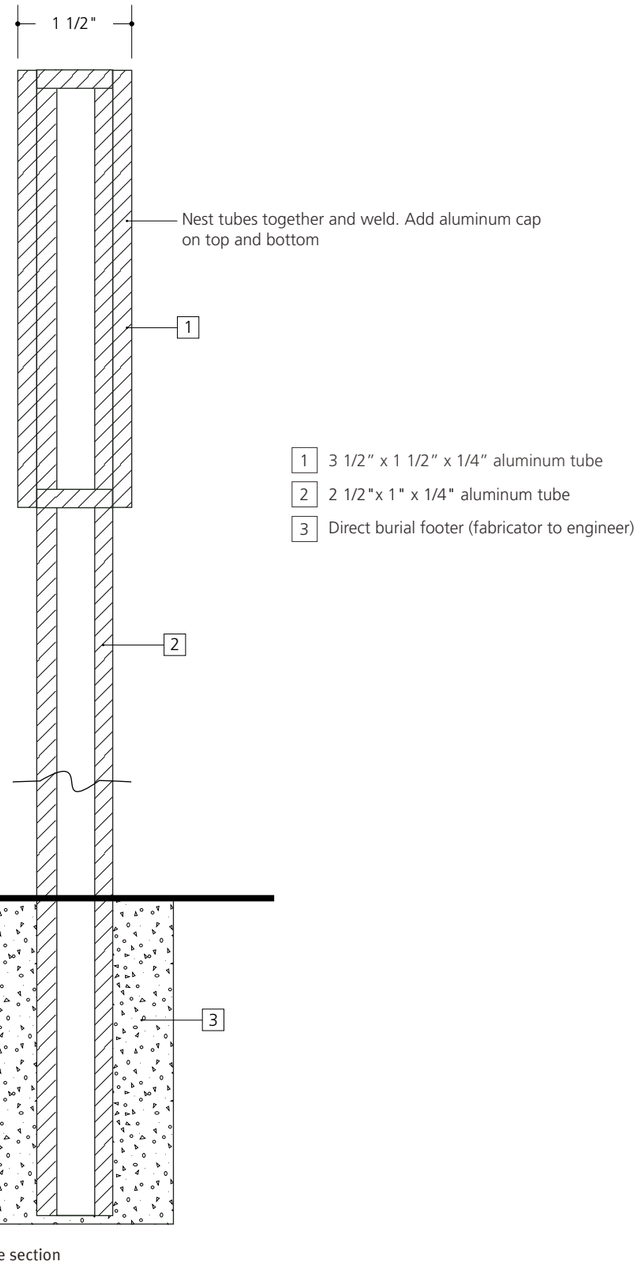
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A





1 3 1/2" x 1 1/2" x 1/4" aluminum tube
2 2 1/2"x 1" x 1/4" aluminum tube
3 Direct burial footer (fabricator to engineer)

1 Elevations ST 21
half scale

Sign Type 21

Accessible Blaze
Single-faced

Materials
Aluminum tubes nested together and welded. Top and bottom caps welded into place. Grind all weld lines

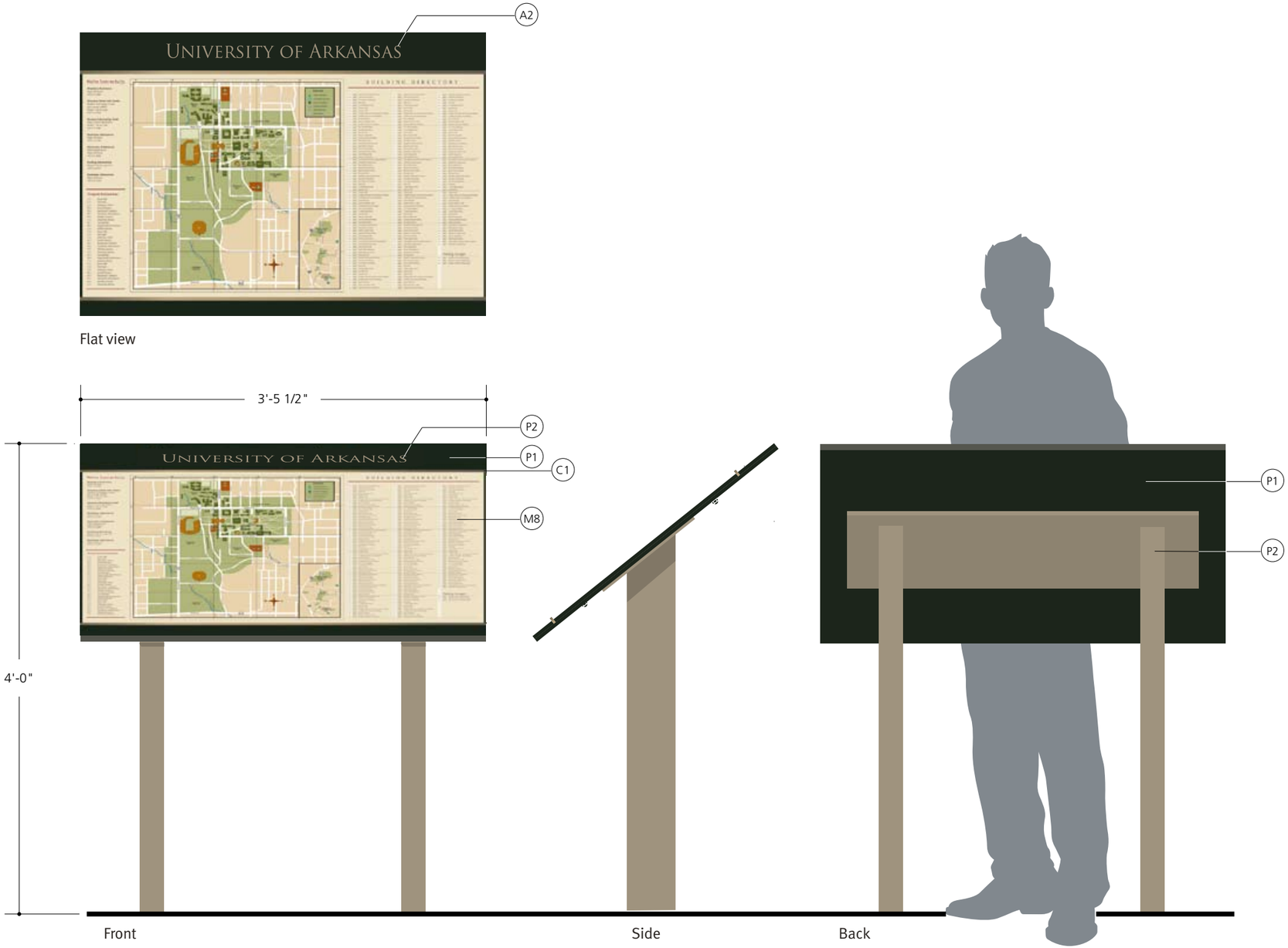
Finishes
All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

Message copy is mask and sprayed.

Installation
Sign assembly to be direct burial into poured concrete footers. Fabricator to determine footer dimensions

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Elevation ST22 - Pedestrian Map Station
scale: 1"=1'-0"

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2.35 ELEVATION DRAWINGS

Sign Type 22

Pedestrian Map Station
Single-faced tableau style

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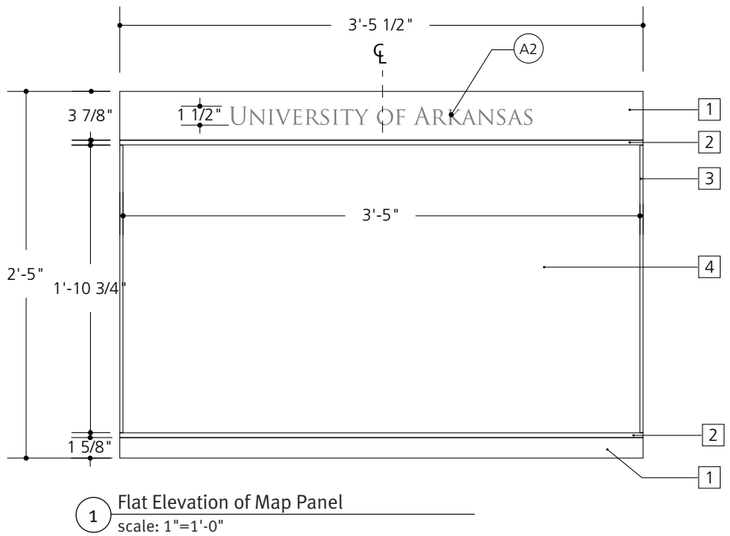
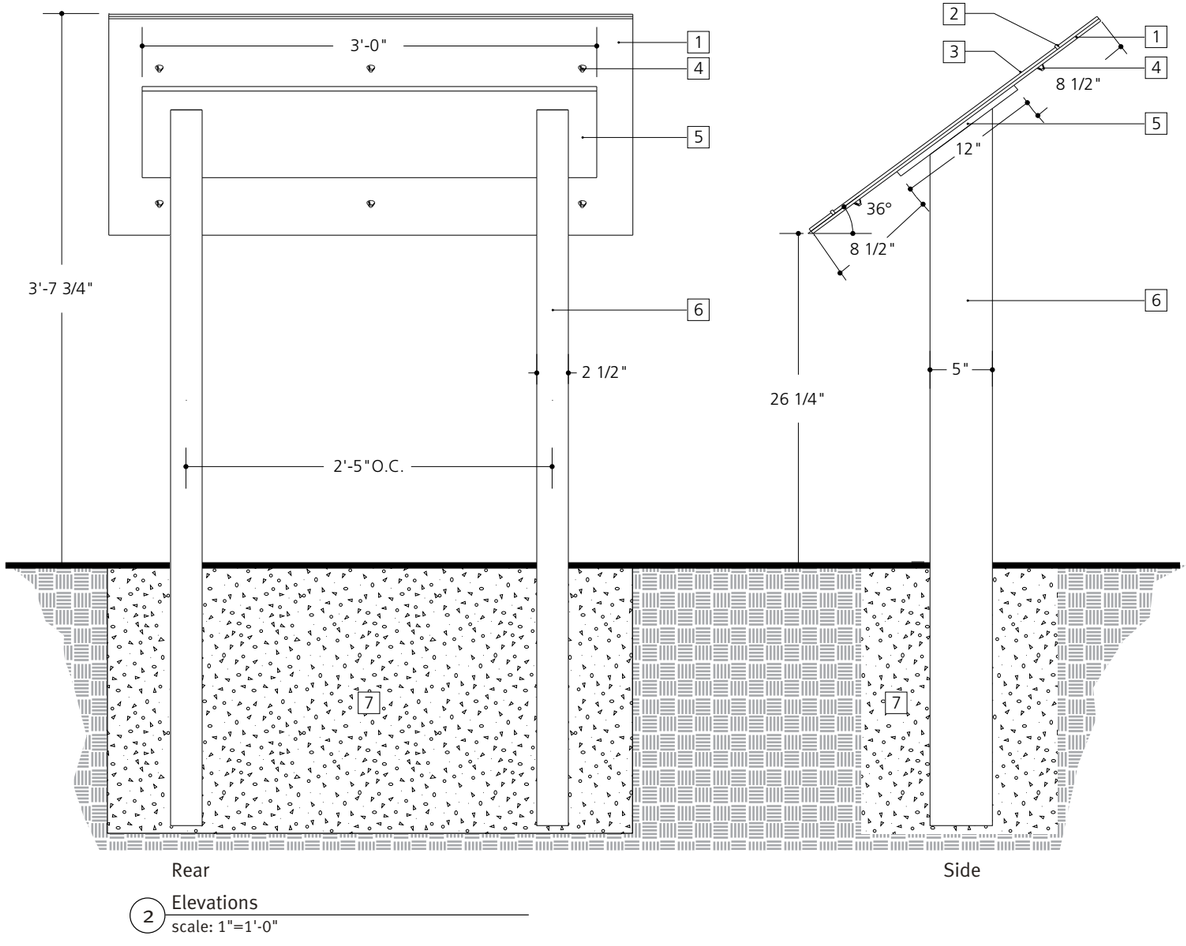
Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

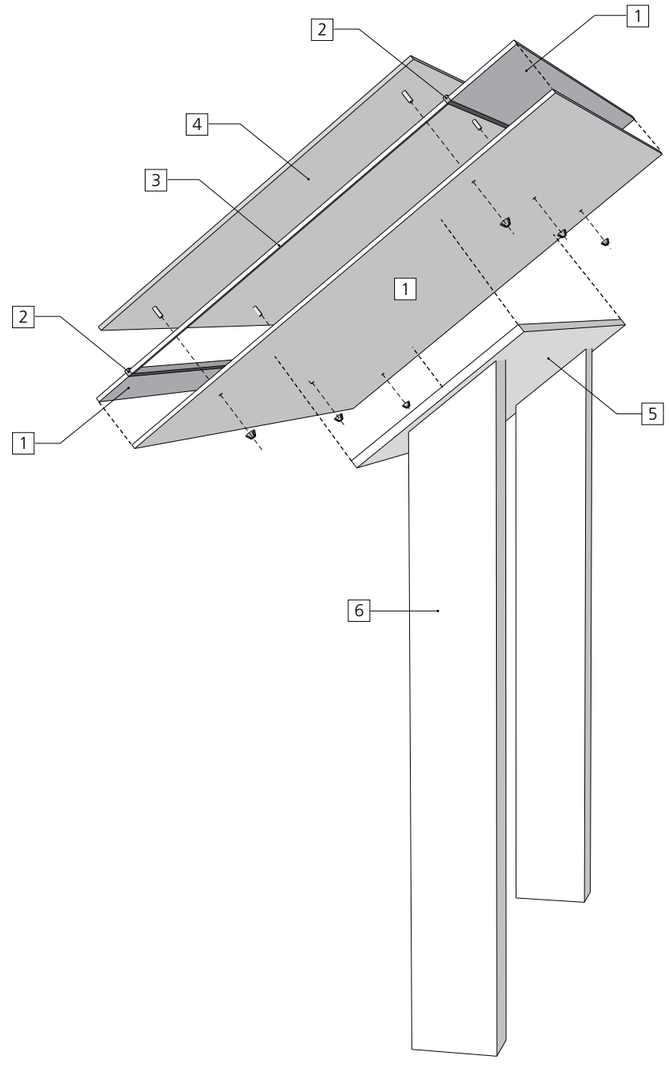
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Flat Elevation of Map Panel
scale: 1"=1'-0"



2 Elevations
scale: 1"=1'-0"



3 Exploded
n t s

1. 1/4" aluminum panel
2. 3/8" square bronze bar welded to back panel
3. 22 3/4" x 41" opening routed out of panel
4. Fused graphic print on aluminum fastened through back panel with welded studs and tamper-proof nuts
5. 1/2" thk. aluminum back plate welded to back panel
6. 2 1/2" x 5" 1/4" wall aluminum extrusion legs
7. Concrete footers (size TBD by fabricator)

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Sign Type 22

Pedestrian Map Station
Single-faced tableau style

Materials

Support structure is fabricated with extruded tube frame welded to aluminum plate.

Mounting panel and frame panel are routed from heavy gauge aluminum sheet and mechanically mounted to support structure.

Bronze bar is mounted to frame panel.

Graphics

Text to be mask and sprayed, map is Digital Map is CMYK graphic baked to aluminum panels with studs mounted to back.

Systeme Huntingdon Inc.
systemeinc.com
450.264.6146

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

Bronze has bright satin finish with horizontal directional brush.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

Installation

Sign assembly to be direct burial into poured concrete footers. Fabricator to determine footer dimensions.

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FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

1 Elevation ST30 - Building ID large
scale: 1 1/2"=1'-0"

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2.37 ELEVATION DRAWINGS

Sign Type 30

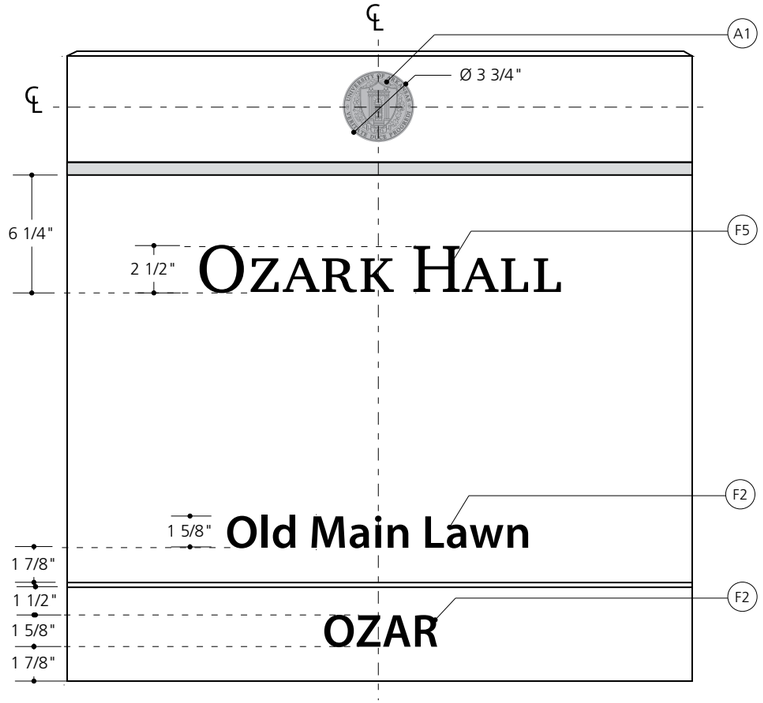
Building ID – large-freestanding sign
Double-faced

THIS DRAWING REPRESENTS DESIGN INTENT ONLY.

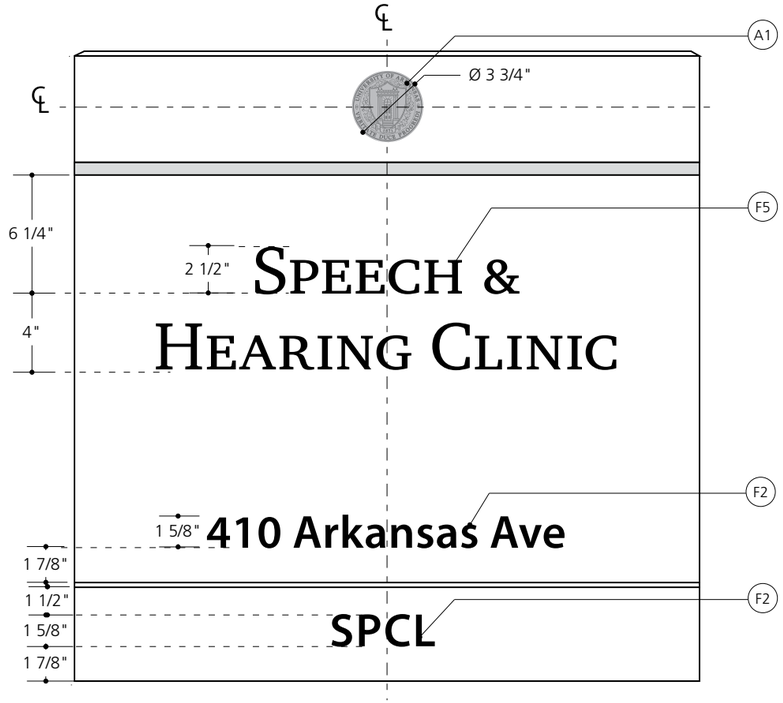
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

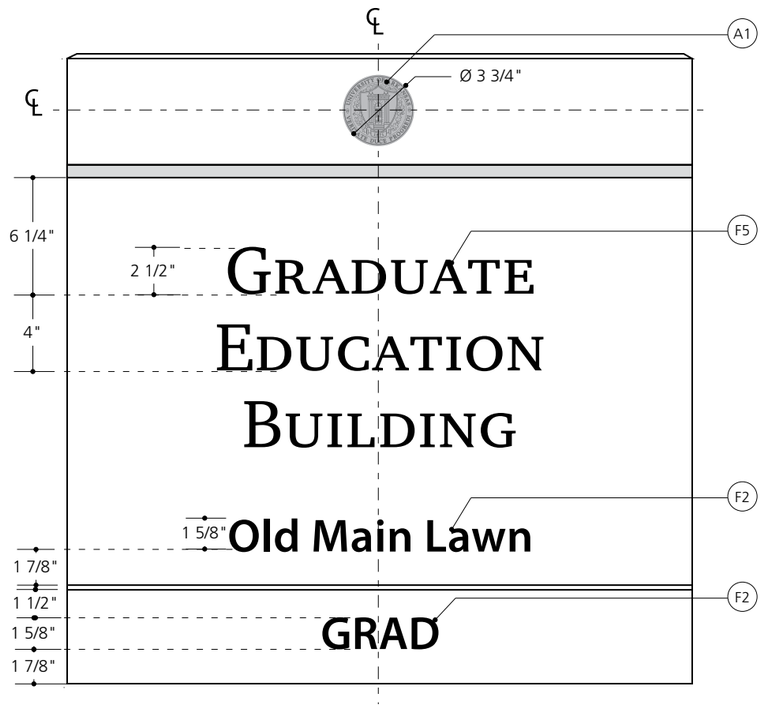
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



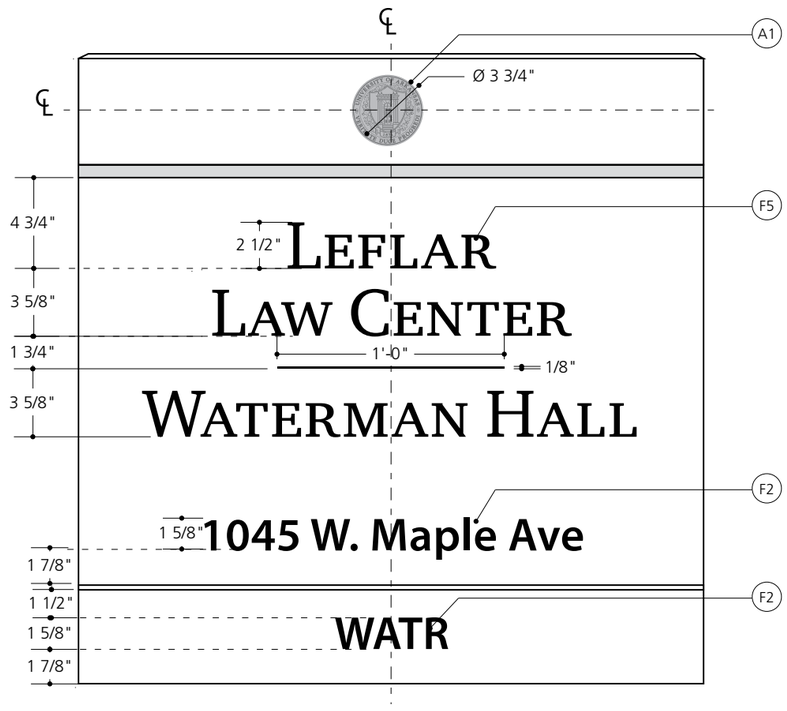
1 ST9 - Layout Guideline
scale: 1 1/2 "=1'-0"



2 ST9 - Layout Guideline
scale: 1 1/2 "=1'-0"



3 ST9 - Layout Guideline
scale: 1 1/2 "=1'-0"



4 ST9 - Layout Guideline
scale: 1 1/2 "=1'-0"

Sign Type 30

Building ID – large-freestanding sign
Double-faced

Layout Drawings
Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule

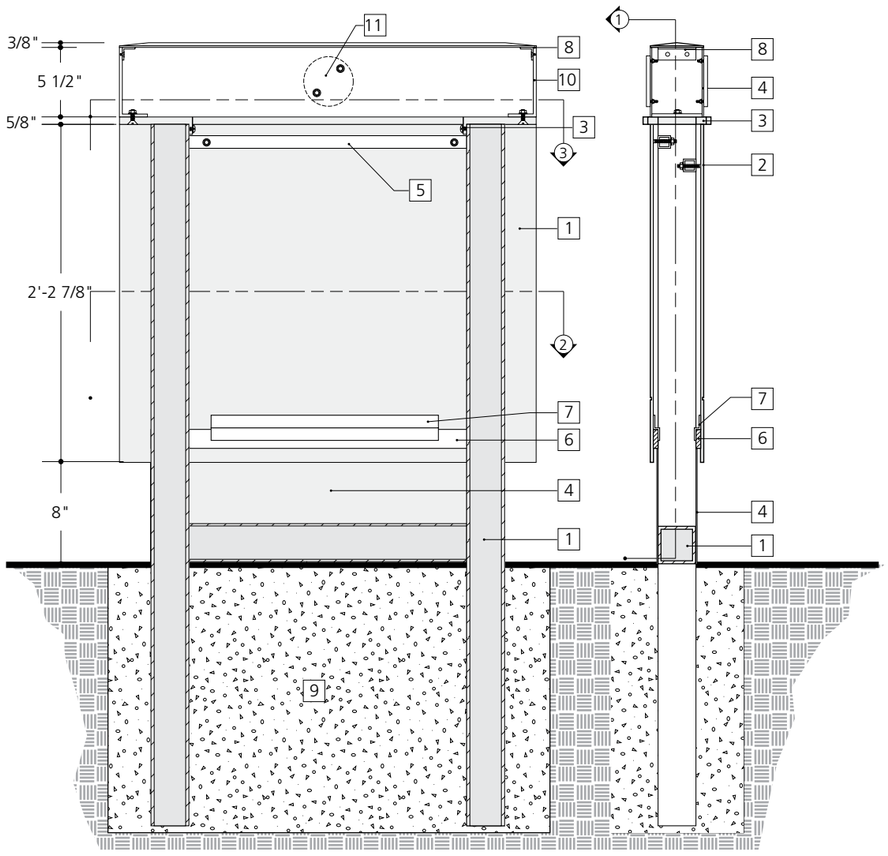
Graphics
Text, graphics and artwork to be mask and sprayed unless otherwise specified.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

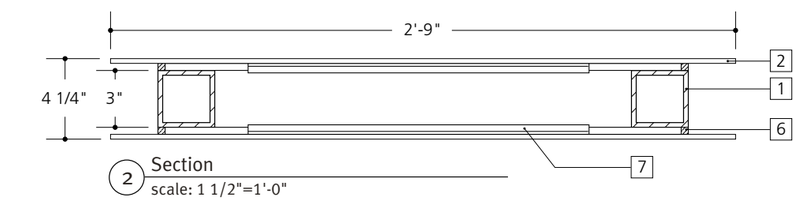
THIS DRAWING REPRESENTS DESIGN INTENT ONLY.
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

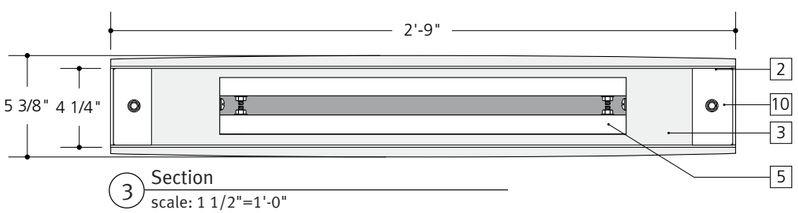
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



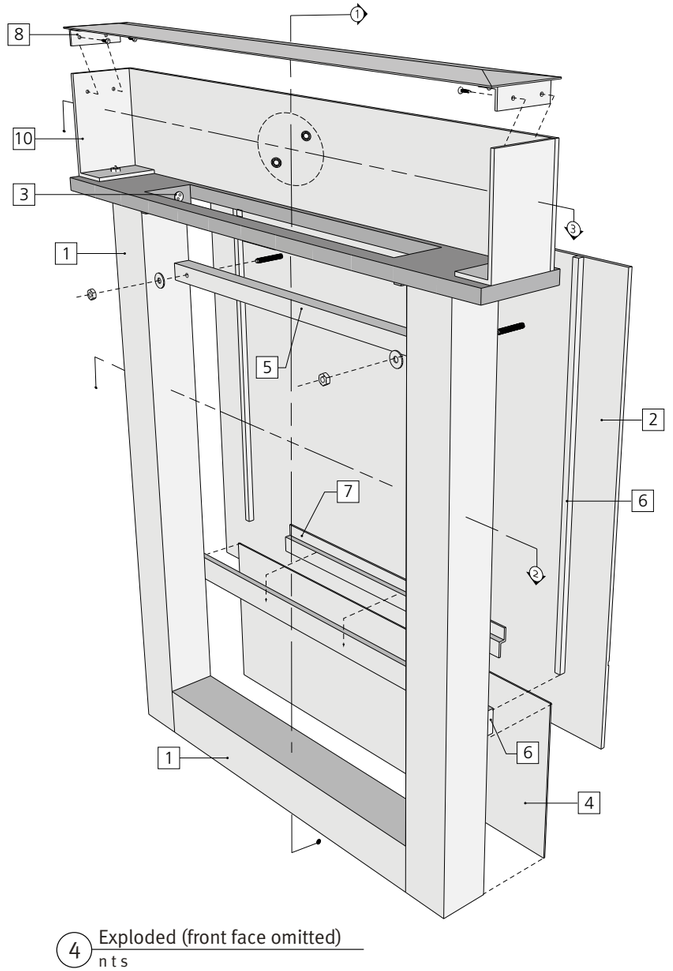
1 Section/Elevation ST30
scale: 1"=1'-0"



2 Section
scale: 1 1/2"=1'-0"



3 Section
scale: 1 1/2"=1'-0"



4 Exploded (front face omitted)
n t s

5 Cast bronze template
scale: 1 1/2"=1'-0"

1 3" x 3" x 1/4" wall aluminum extruded tube
2 .25" aluminum message panel with welded studs
3 Cast bronze plate mechanically fastened to tubes
4 .090 aluminum cabinet faces
5 1" square aluminum tubing cross braces
6 3/8" thick aluminum bar stock
7 Z-clip blind fastener cleat
8 Beveled aluminum cap with angle clips
9 Concrete footers (size TBD by fabricator)
10 Cap assembly fastened to bronze plate (removable for disassembly access)
11 1/4" thick etched zinc seal with studs

UNIVERSITY of ARKANSAS

Sign Type 30

Building ID – large-freestanding sign
Double-faced

Materials

Aluminum center cabinet is fabricated with extruded tube frame and cross-bracing. Kick panels are sheet aluminum.

Top cabinet is separate aluminum construction, mechanically fastened to center plate. Top cap is milled aluminum plate with welded tabs for mechanical fastening to cabinet.

Center plate is cast bronze and University seal is etched zinc, mechanically fastened to structure.

Message panel is heavy gauge aluminum sheet with welded studs and welded z-clip cleat for blind fastening. Message panel is mechanically fastened to frame structure. Panel has alum bar stock shims to create floating reveal effect from cabinet.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

Bronze has antique satin finish.

Installation

Sign assembly to be direct burial into poured concrete footers. Fabricator to determine footer dimensions.

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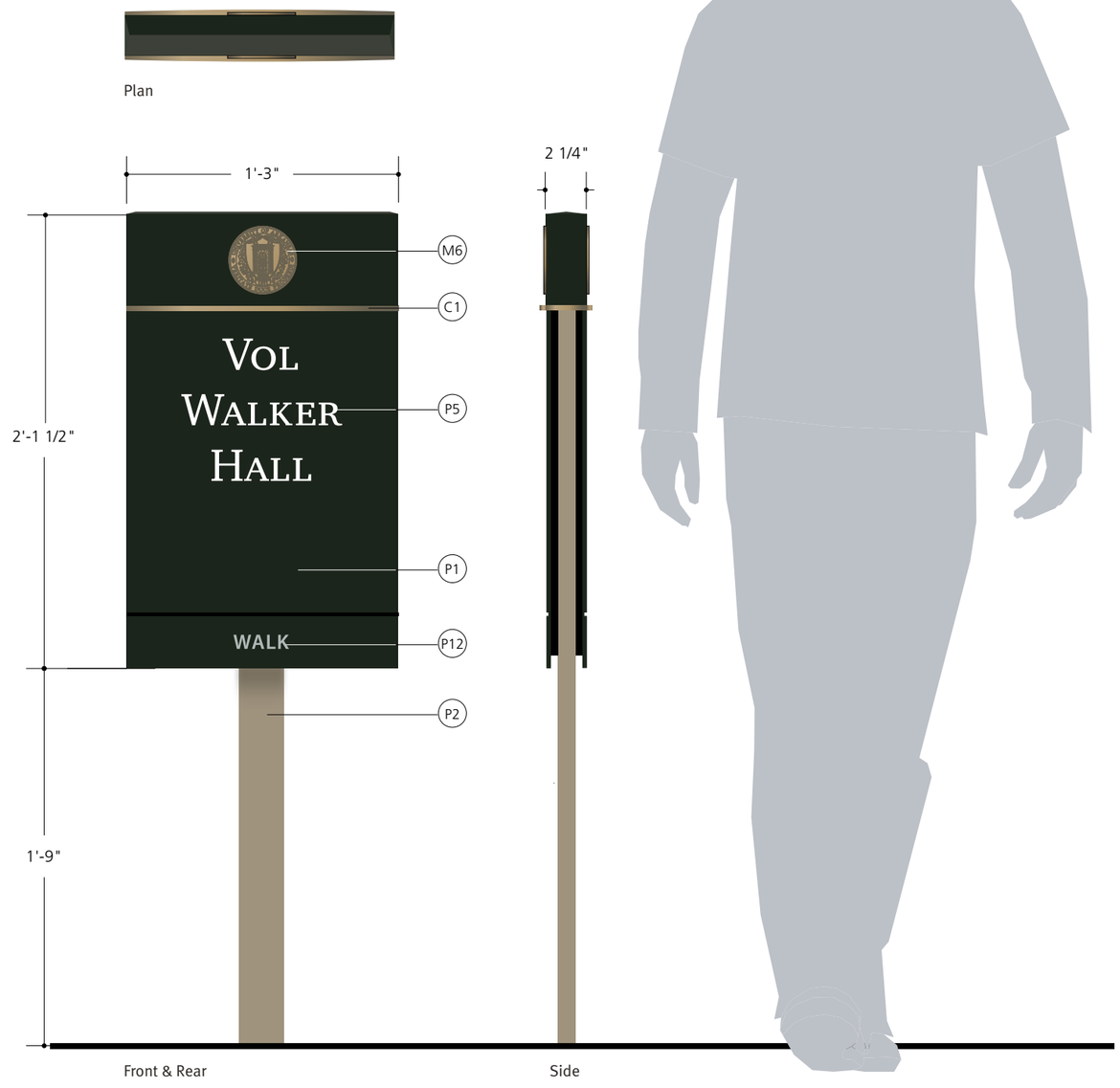
Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Elevation ST31 - Building ID small
scale: 1 1/2"=1'-0"

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2.40 **ELEVATION DRAWINGS**

Sign Type 31

Building ID – small-freestanding sign
Double-faced

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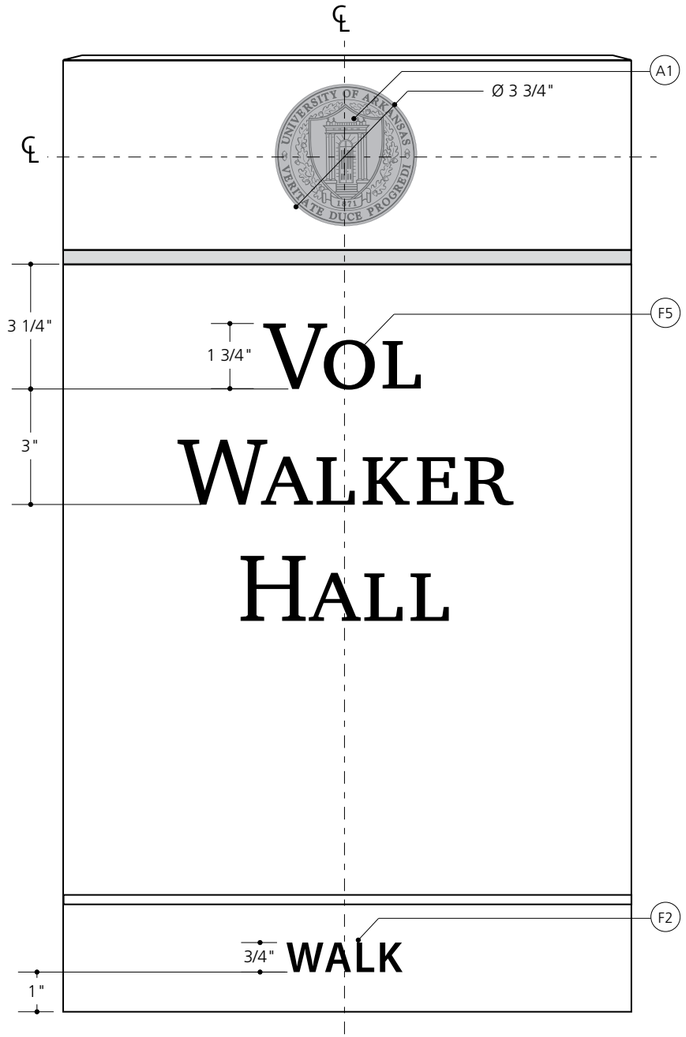
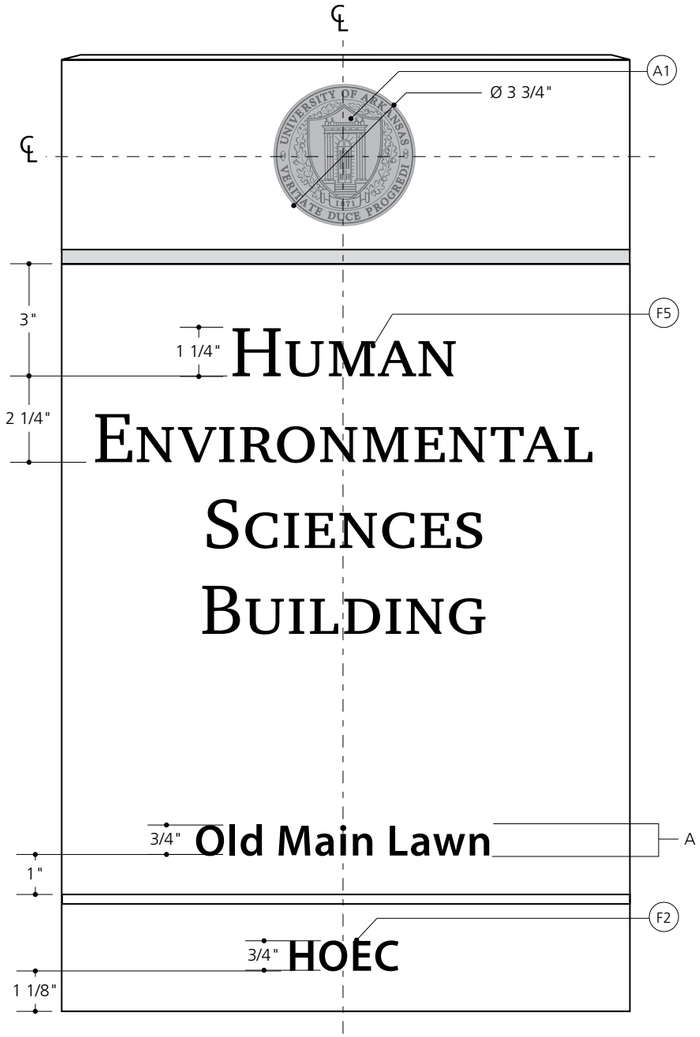
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 ST31 Layout Guideline
scale: 3 "=1'-0"



2 ST31 Alternate Layout Guideline
scale: 3 "=1'-0"

Sign Type 31

Building ID – small-freestanding sign
Double-faced

Layout Drawings
Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule

Graphics
Text, graphics and artwork to be mask and sprayed unless otherwise specified.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.

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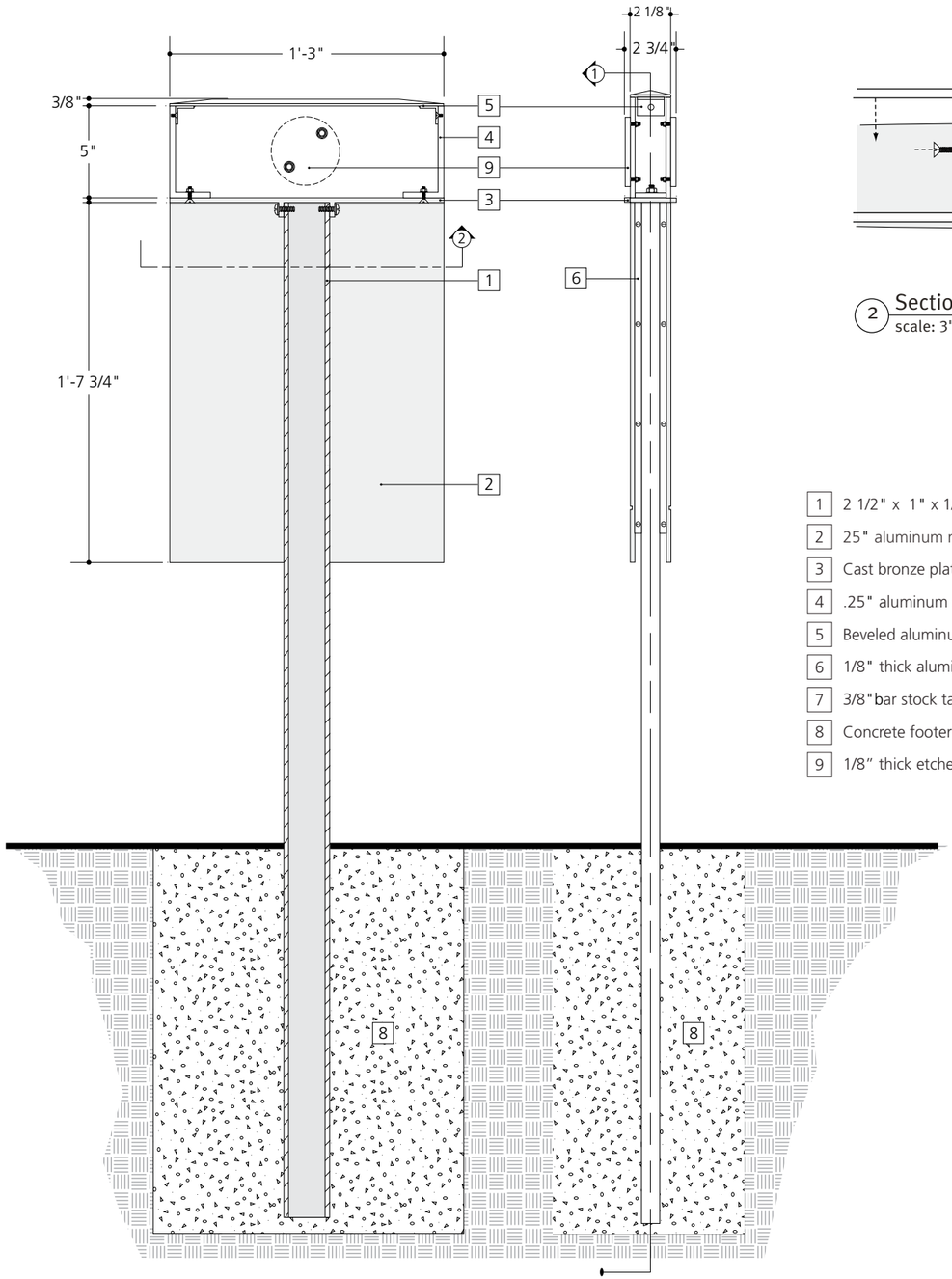
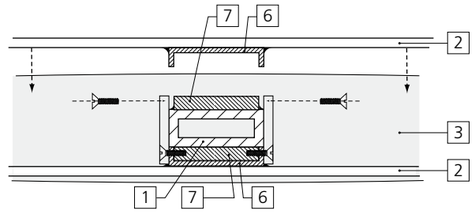
Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

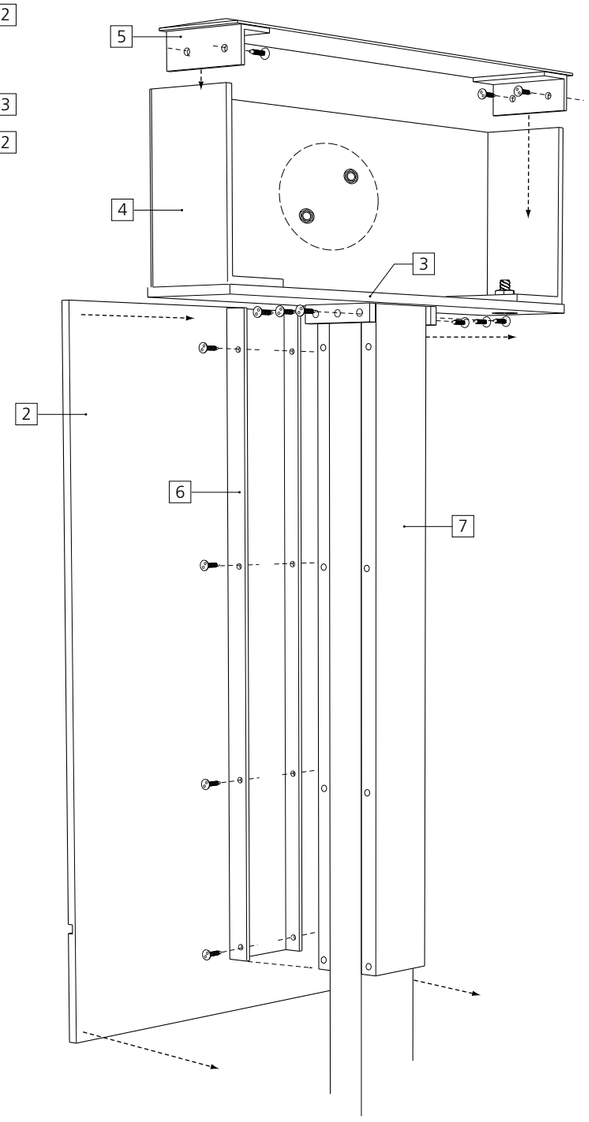


1 Section/Elevation
scale: 1 1/2"=1'-0"



2 Section/Detail
scale: 3"=1'-0"

1 2 1/2" x 1" x 1/4" wall aluminum extruded tube
2 25" aluminum message panel with channel welded to back
3 Cast bronze plate mechanically fastened to tubes
4 .25" aluminum cabinet faces
5 Beveled aluminum cap with angle clips
6 1/8" thick aluminum channel
7 3/8"bar stock tapped and welded to upright tube
8 Concrete footers (size TBD by fabricator)
9 1/8" thick etched zinc seal with studs



3 Exploded (front face omitted)
n t s

UNIVERSITY of ARKANSAS

Sign Type 31

Building ID – small-freestanding sign
Double-faced

Materials

Aluminum center cabinet is fabricated with extruded tube frame and cross-bracing. Kick panels are sheet aluminum.

Top cabinet is separate aluminum construction, mechanically fastened to center plate. Top cap is milled aluminum plate with welded tabs for mechanical fastening to cabinet.

Center plate is cast bronze and University seal is etched zinc, mechanically fastened to structure.

Message panel is heavy gauge aluminum sheet with welded studs and welded z-clip cleat for blind fastening. Message panel is mechanically fastened to frame structure. Panel has alum bar stock shims to create floating reveal effect from cabinet.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

Bronze has antique satin finish.

Installation

Sign assembly to be direct burial into poured concrete footers. Fabricator to determine footer dimensions.

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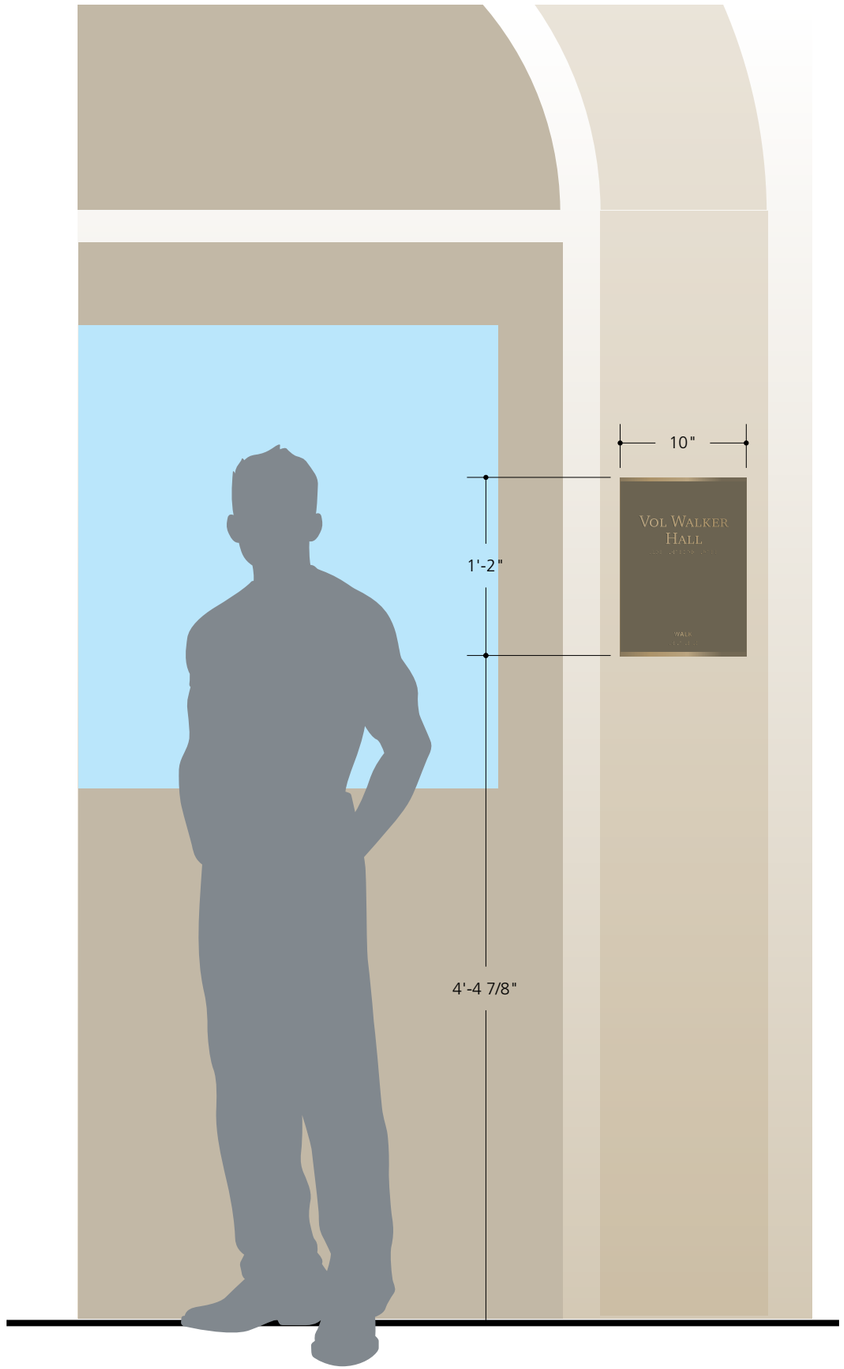
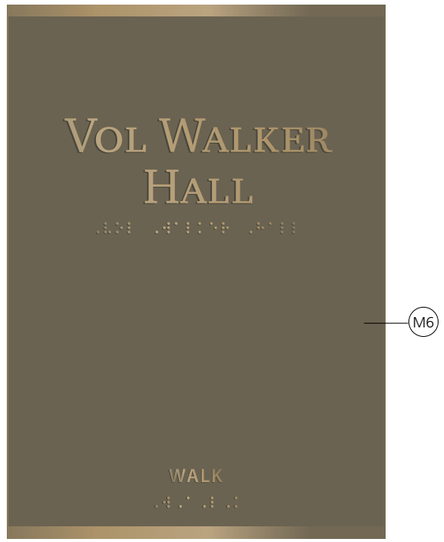
University of Arkansas Signage and Wayfinding Program	**714802.6**

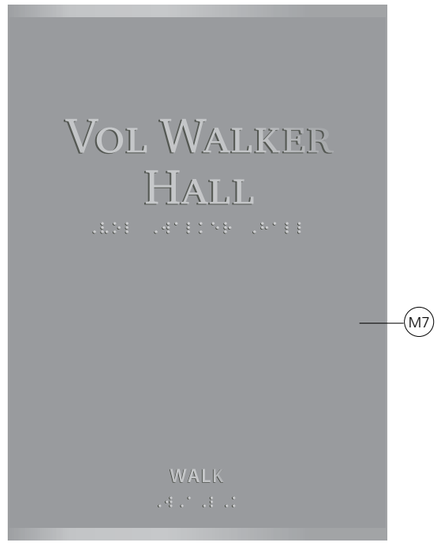
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Elevation ST32 – Building ID wall
scale: 1"=1'-0"



32A – Etched zinc – bronzetone (oxidized zinc)



32B – Etched zinc – natural

32C – Horizontal layout option

2 Elevations ST32
scale: 3"=1'-0"

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Sign Type 32

Building ID – wall-mounted sign
Single-faced

ST32A (vertical layout) & 32B (horizontal layout) are deep-etched bronze plaques with dark oxidized background and buff satin letterfaces and horizontal bars.

ST32C (vertical layout) & 32D (horizontal layout) are deep-etched zinc plaques with sandblasted zinc background and horizontal brushed letter faces and horizontal bars.

Plaques to be produced by:

Matthews International
800.950.1317

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FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

Sign Type 32

Building ID – wall-mounted sign
Single-faced

Materials

Signs are 1/4" thick deep-etched zinc plate with natural finish or etched bronze plate. All signs are fitted with studs for wall mounting.

Layout Drawings

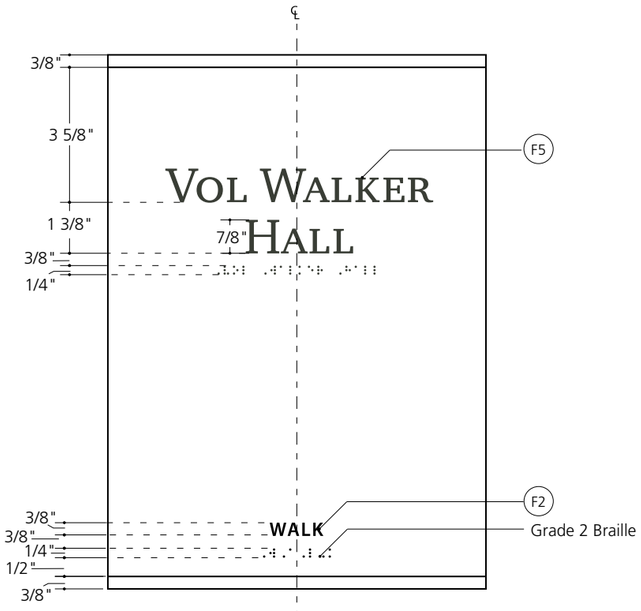
Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule.

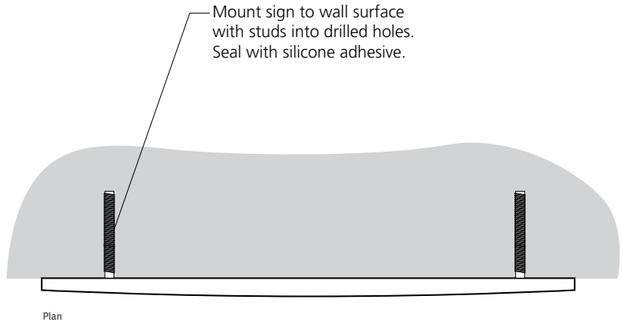
Graphics

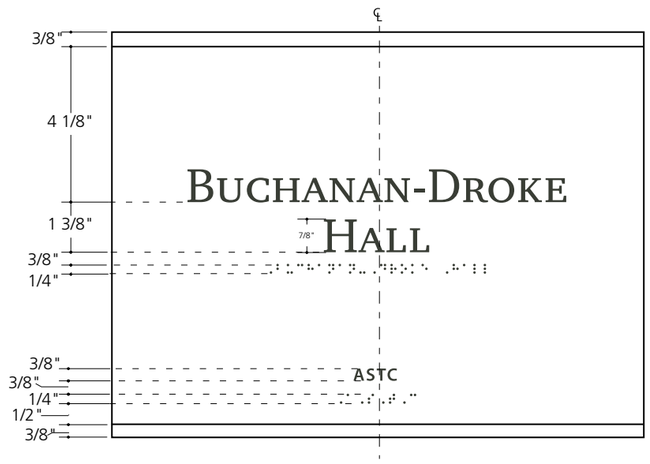
Text, graphics and artwork to be mask and sprayed unless otherwise specified.

Note: All sign panel shapes will be provided as electronic files. Use file as template for router or other computer aided cutting machines. Do not attempt to re-draw shapes.



1 Layout Guidelines ST32A & 32B– vertical format
scale: 3"=1'-0"





2 Layout Guidelines ST32C – horizontal format
scale: 3"=1'-0"

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University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

Front

Side

1 Detail ST33A
scale: 1"=1'-0"

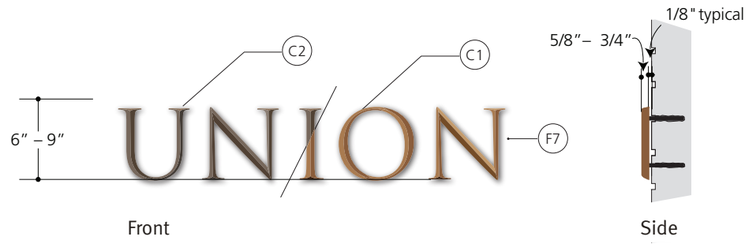
Detail ST33B

Front

Side

2 Detail ST33C
scale: 1"=1'-0"

Detail ST33D



Front

Side

3 Detail ST33E
scale: 1"=1'-0"

Detail ST33F

ST33 Cast Prismatic Letters

UNIVERSITY of ARKANSAS

Sign Type 33 , 34 & 35

Building ID – wall-mounted letters

ST33 A,C,E – Prismatic serif style letterform fabricated from cast bronze with dark patina and brass mounting studs. Bronze to have buff satin finish with clear coat protectant (C2).

ST33 B,D,F – Prismatic serif style letterform fabricated from cast bronze with light patina and brass mounting studs. Bronze to have buff satin finish with clear coat protectant (C1).

Installation

Fabricator to verify conditions in field. University to check placement of paper template in field before installer drills holes. Set mounting studs into pre-drilled holes filled with silicone adhesive on wall surfaces.

Prismatic letterforms available from:

Matthews International
800.950.1317

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Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

1 ST33
scale: 3/8 "=1'-0"

East Entrance

2 Contextual Elevation ST33 – Mullins Library
scale: 1/8 "=1'-0"

Sign Type 33

General Guidelines for Use of Building Mounted Letters

Typical Example of Prismatic Wall-mounted Letters

Choose letter style and size based on architectural features, mounting area and site lines.

Letter sizes should be no smaller than 6” or larger than 15” in height. Depth of letter depends on size of letters. Letters should never be mounted more than 1/8” off the surface.

Letter spacing should approximate example shown at left.

Letterforms available from:
Matthews International
800.950.1317

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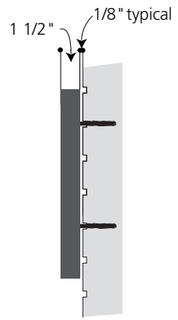
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

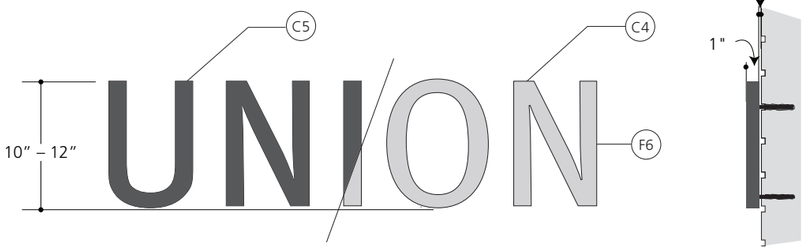
Front



Side

1 Detail ST34A
scale: 1"=1'-0"

Detail ST34B

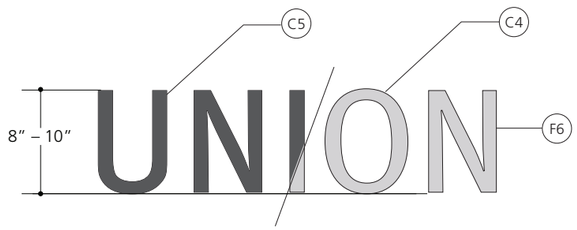


Front

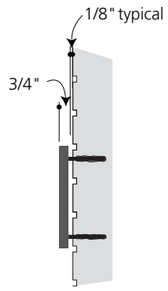
Side

2 Detail ST34C
scale: 1"=1'-0"

Detail ST34D



Front

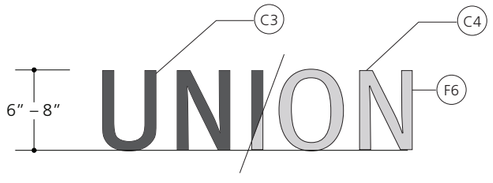


Side

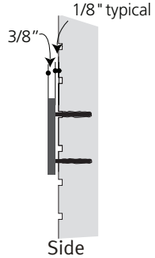
3 Detail ST34E
scale: 1"=1'-0"

Detail ST34F

ST34 Fabricated Reverse Channel Dimensional Letters



Front



Side

4 Detail ST35A
scale: 1"=1'-0"

Detail ST35B

ST35 Cut Dimensional Letters

NOTE: If it is determined that letters are needed under 6" in height they should be cut from 1/4" thick sheet metal (bronze or aluminum).

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Sign Types 34 & 35

Building ID – wall-mounted letters

ST34 A, C, E – Sans serif style letterform, fabricated reverse channel from brass sheet with welded returns and brass mounting studs. Letters have a horizontally brushed finish with dark oxidized coloring and clear coat finish (C5).

ST34 B, D, F – Sans serif style letterform fabricated reverse channel from aluminum sheet with welded returns and aluminum mounting studs. Letters have a horizontally brushed finish with a clear anodized finish (C4).

ST35 A – Sans serif style letterform water-jet cut from bronze sheet (3/8" thick) with brass mounting studs. Letters have a horizontally brushed finish with dark oxidized coloring and clear coat finish (C3).

ST35 B – Sans serif style letterform water-jet cut from aluminum sheet (3/8" thick) with aluminum mounting studs. Letters have a horizontally brushed finish with a clear anodized finish (C4).

Installation

Fabricator to verify conditions in field. University to check placement of paper template in field before installer drills holes. Set mounting studs into pre-drilled holes filled with silicone adhesive on wall surfaces.

Cast and cut letterforms available from:

Matthews International

800.950.1317

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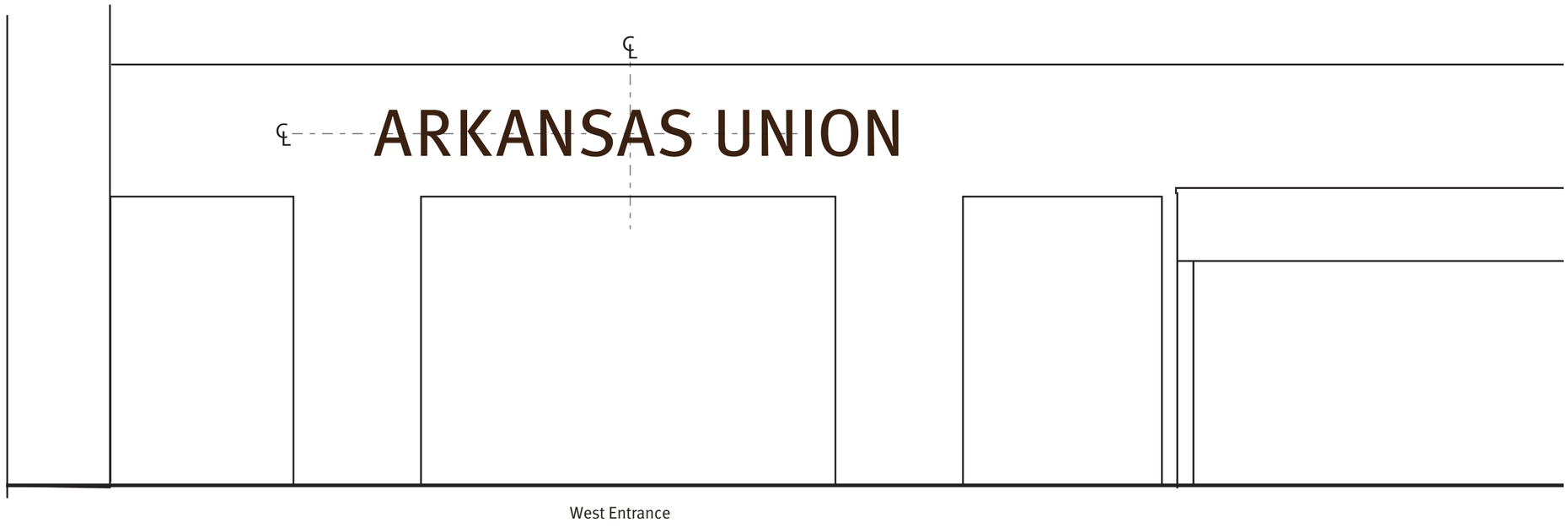
Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09, 01.12.10	N/A

1 ST34
scale: 1/2"=1'-0"



2 Contextual Elevation
scale: 3/16 "=1'-0"

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Sign Types 34 & 35

General Guidelines for Use of Building Mounted Letters

Typical Example of Sans Serif fabricated or Cut Metal Wall-mounted Letters

Choose letter style and size based on architectural features, mounting area and site lines.

Letter sizes should be no smaller than 6” or larger than 15” in height. Depth of letter depends on size of letters. Letters should never be mounted more than 1/8” off the surface.

Letter spacing should approximate example shown at left.

Letterforms available from:

Matthews International
800.950.1317

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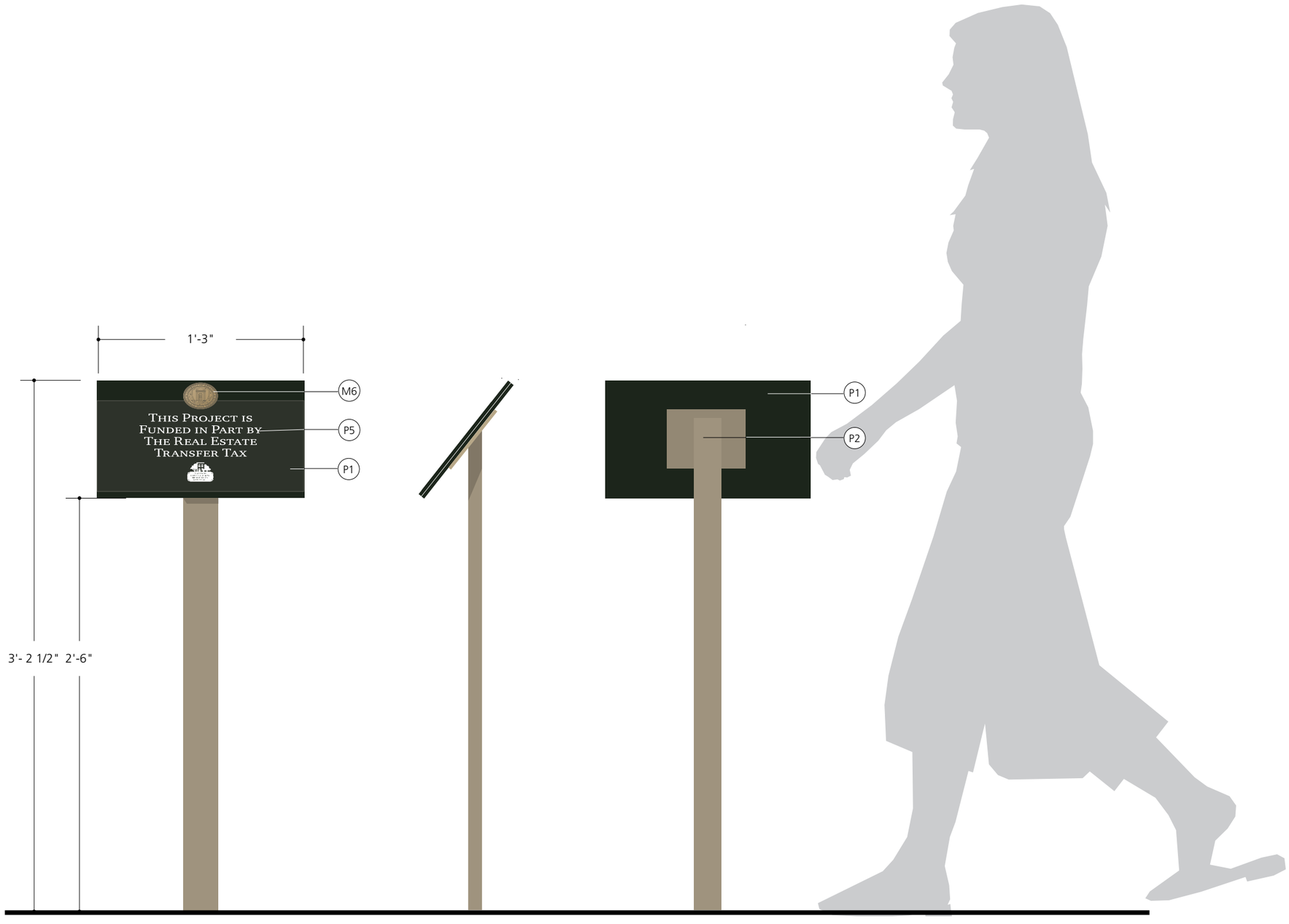

1 Elevation ST40 – Small Information Sign
scale: 1 1/2"=1'-0"

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2.49 ELEVATION DRAWINGS

Sign Type 40

Small Information Sign
Single-faced freestanding tableau style

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Date	Revisions	Scale
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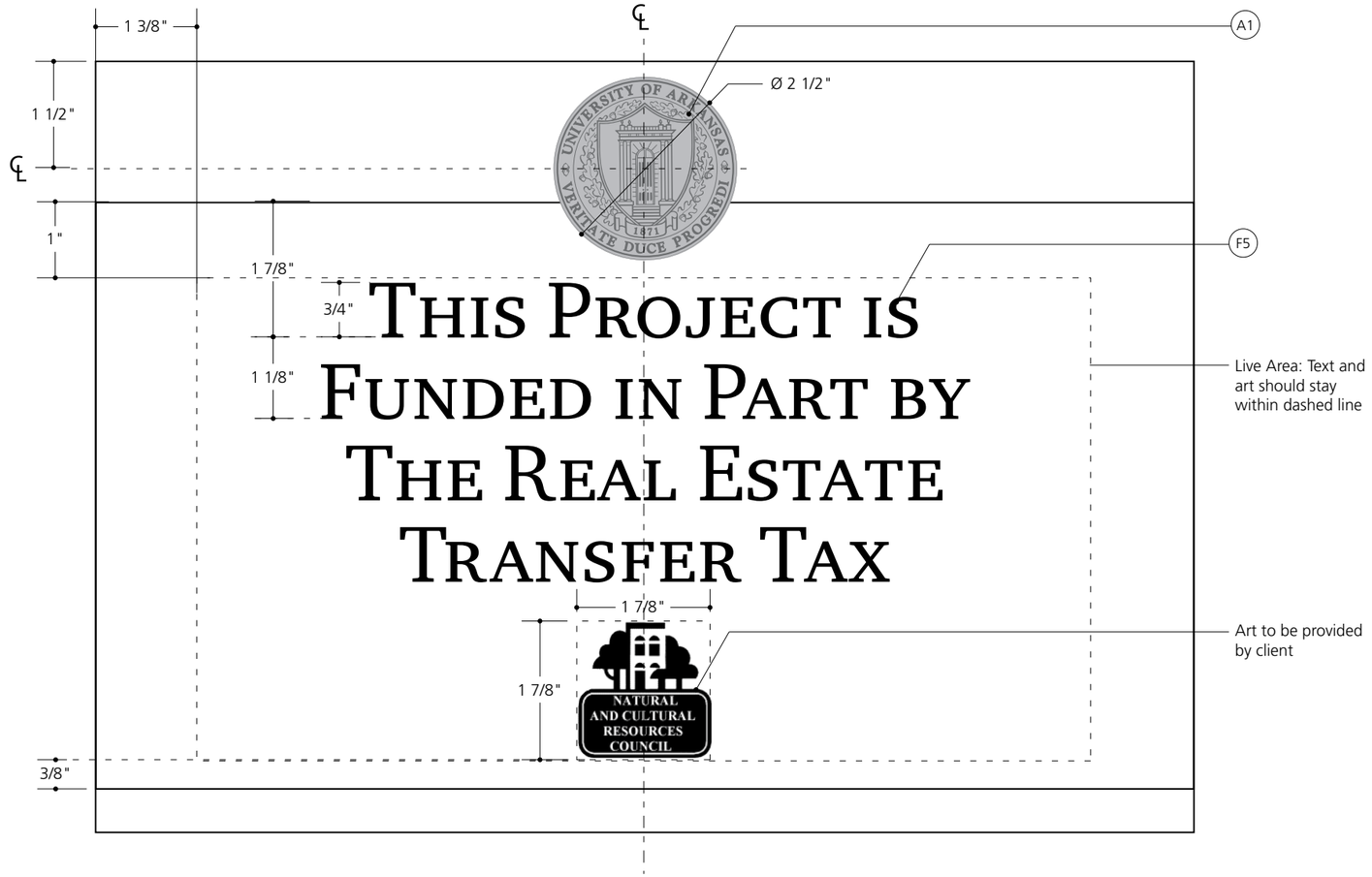

1 ST40 Layout Guideline
half scale

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Sign Type 40

Small Information Sign Layout Example
Single-faced freestanding tableau style used for many purposes

NOTE: Text/Layout is for illustrative purposes only

Layout Drawings
Graphic guidelines are for style only. When designing new layouts full-size prints should be used to test legibility.

Graphics
Text, graphics and artwork to be masked and sprayed unless otherwise specified.

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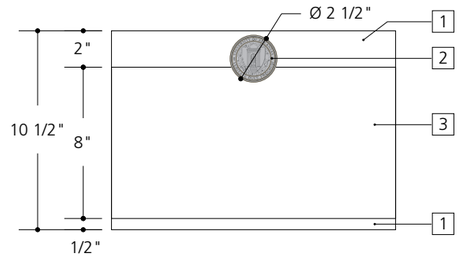
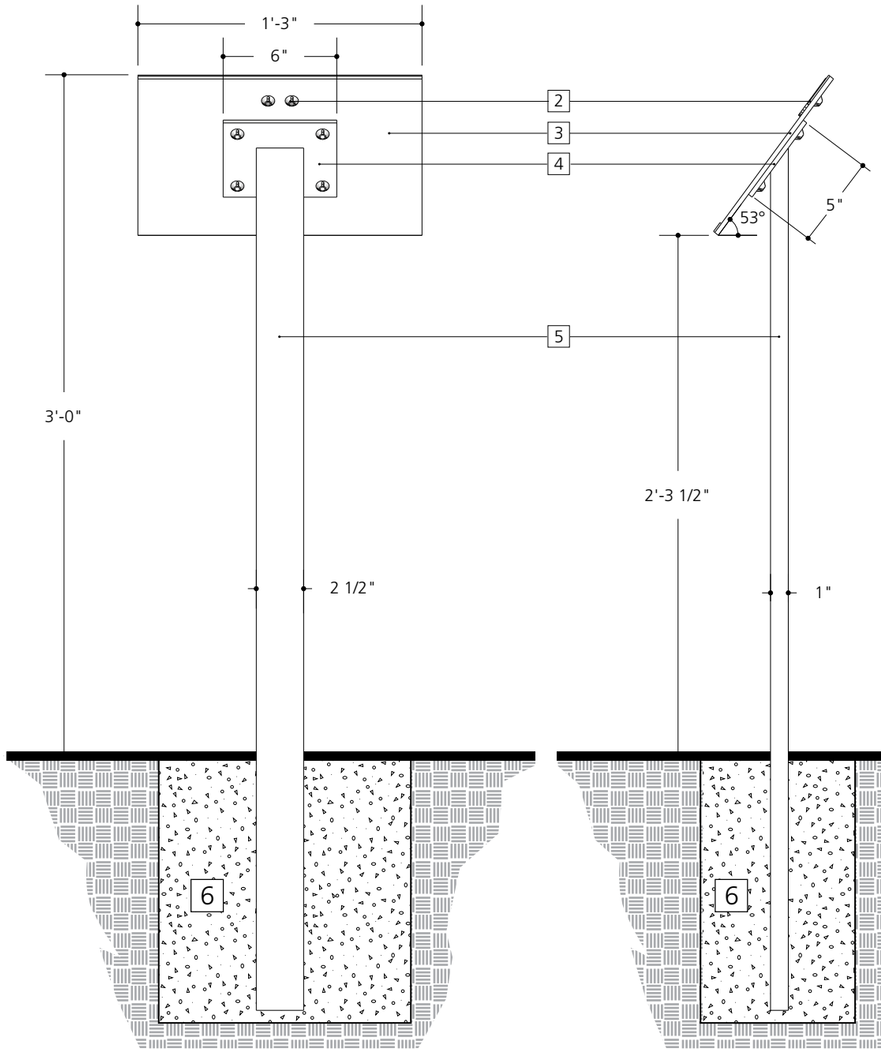
Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

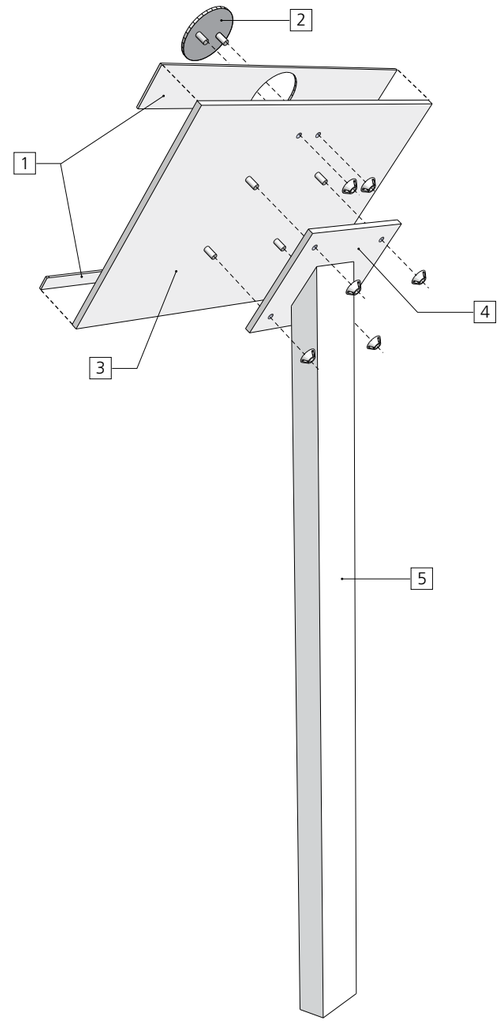


1 Flat Elevation of Information Panel
scale: 1 1/2"=1'-0"



2 Elevation – front
scale: 1 1/2"=1'-0"

3 Elevation – Side
scale: 1 1/2"=1'-0"



4 Exploded
n t s

1. 0.090" aluminum build up paneling adhered to panel with acrylic adhesive and fasteners from rear
2. 3/16" thick etched zinc seal fastened through panel with welded studs
3. 1/4" thick aluminum message panel masked and sprayed with copy and fastened through base plate with welded studs and tamper-proof fasteners
4. 1/4" thick aluminum backplate welded to post extrusion
5. 1" x 2 1/2" 1/4" wall aluminum extrusion post
6. Concrete footers (size TBD by fabricator)

UNIVERSITY of ARKANSAS

2.51 **CONSTRUCTION DRAWINGS**

Sign Type 40

Small Information Sign
Single-faced freestanding tableau style

Materials

Support structure is fabricated with extruded tube frame welded to aluminum plate.

Mounting panel is cut from heavy gauge aluminum sheet and mechanically mounted to support structure.

Frame elements are light aluminum sheet mounted to mounting panel with acrylic adhesive.

Etched zinc seal is mechanically fastened to mounting panel.

Message area is mask and sprayed copy.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

Bronze has bright satin finish with horizontal directional brush.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

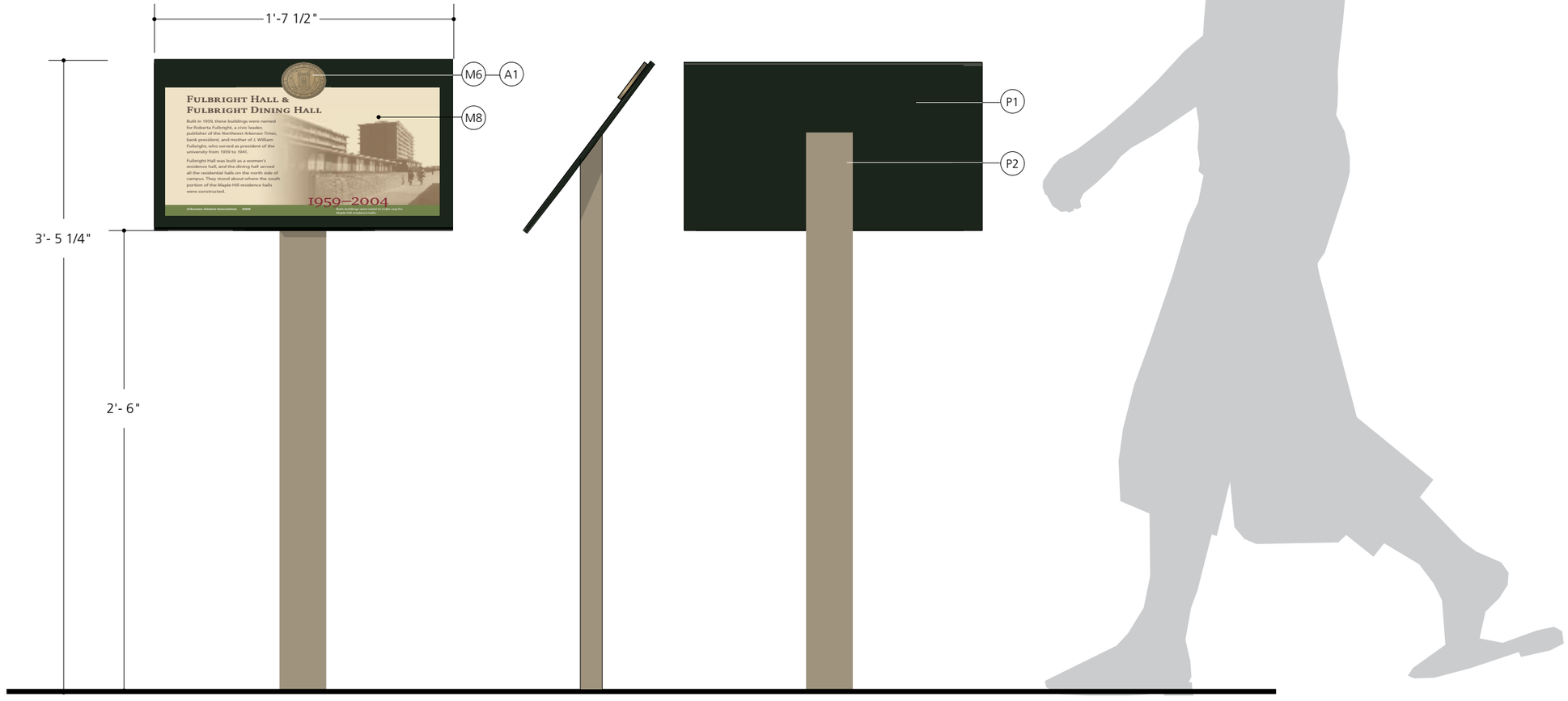
Installation

Sign assembly to be direct burial into poured concrete footers. Fabricator to determine footer dimensions.

THIS DRAWING REPRESENTS DESIGN INTENT ONLY.
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Elevation ST41 – Razed Building Marker
scale: 1 1/2"=1'-0"

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2.52 **ELEVATION DRAWINGS**

Sign Type 41

Small Interpretive Sign
Single-faced freestanding tableau style

Materials

Front and back panel are cut from heavy gauge aluminum sheet. Back panel is welded to aluminum tube post. All components are fastened from back.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

Bronze seal is mechanically fastened to front panel from rear.

Message panel is CMYK graphic print baked to aluminum panel -Alto by Systeme Huntingdon Inc. (SH[i]; www.systemeinc.com) .

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

Bronze has bright satin finish with horizontal directional brush.

Installation

Sign assembly to be direct burial into poured concrete footers. Fabricator to determine footer dimensions.

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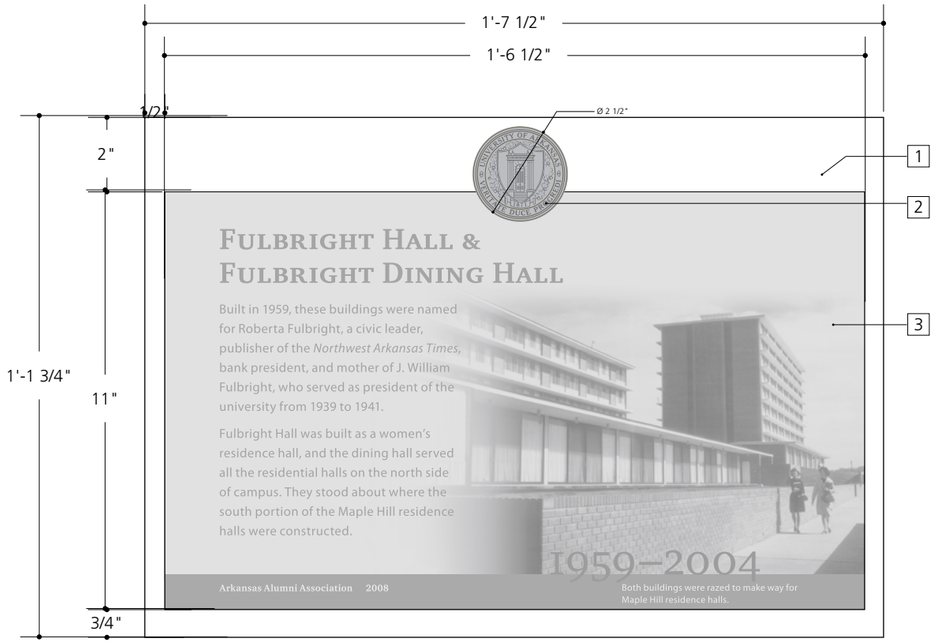
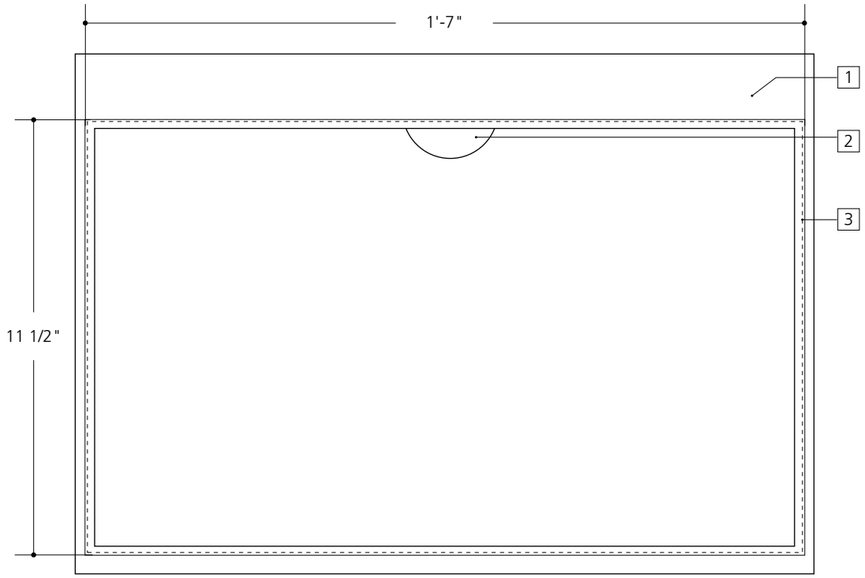
Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Flat Elevation of Interpretive Panel
scale: 1 1/2"=1'-0"

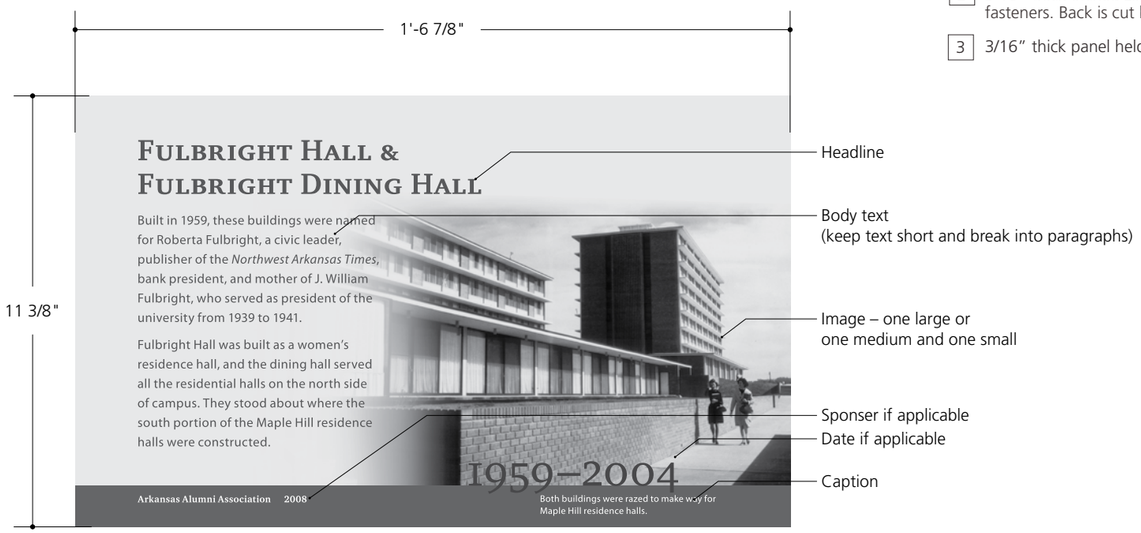


2 Rear Elevation of Front Panel
scale: 1 1/2"=1'-0"

1 1/4" thick aluminum plate cut and routed to accept 3/16" thick panel - fastened to base plate from rear with tamper-proof fasteners. All fasteners to be flush with surface.

2 3/16" thick etched zinc seal fastened through front panel from back with tamper-proof fasteners. Back is cut back so seal lays flush on top of interpretive panel.

3 3/16" thick panel held in place by front panel



3 Example Interpretive Panel – Razed Building Marker
scale: 1 1/2"=1'-0"

NOTE:
This example is from the Razed Building Markers interpretive program and should not be construed as the template for all University interpretive signs. The specifications at the right are meant only to provide guidance in the development of future interpretive programs.

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Sign Type 41

Example of Interpretive Panel for Small Interpretive Sign

Overall panel size is 11 3/8" x 1'-6 7/8". The interpretive graphic or information panel sits behind the top frame.

For effective interpretive panels use head-lines of 3-5 words followed by one to two paragraphs of text. Dates and captions add interest to the panel. Captions should be no longer than 15-20 words. Limit photographs or images to one or two. The second image should be smaller.

The design should intentionally hold text away from the edge and leave space around the seal.

In this example the head line is set in Charter Bold Small Caps at 56 points on 64 point leading.

The text is set in Myriad Pro Regular at 25 points on a 37 point leading. The date is set in Charter Regular Small Caps in old style numerals. The photograph is a colored halftone with edges feathered on one or two sides. Background is a cream color.

All art should be created full size. Text should be turned to outline with final documents submitted to the fabricator according to their specifications.

Color printouts (with PMS chips for spot colors) must be submitted to fabricator for their use in color matching.

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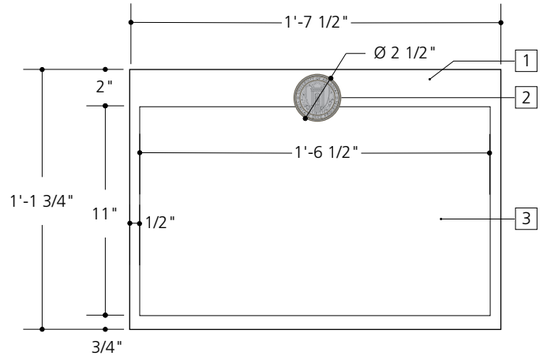
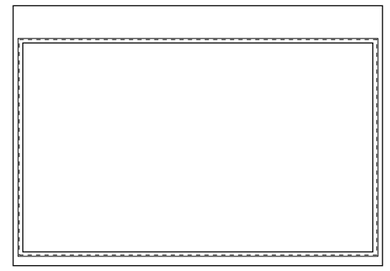
University of Arkansas Signage and Wayfinding Program	**714802.6**

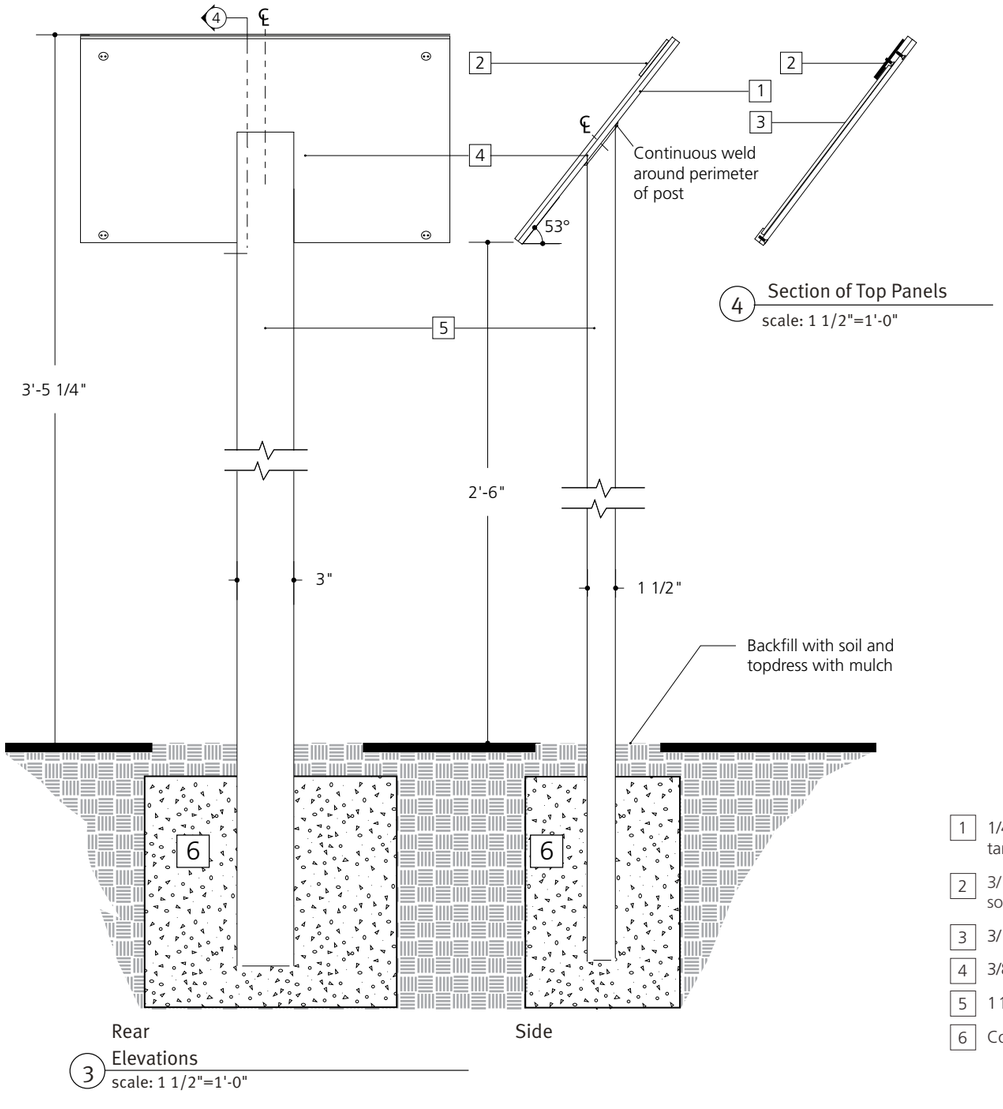
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	Half Scale



1 Flat Elevation of Interpretive Panel
scale: 1 1/2"=1'-0"

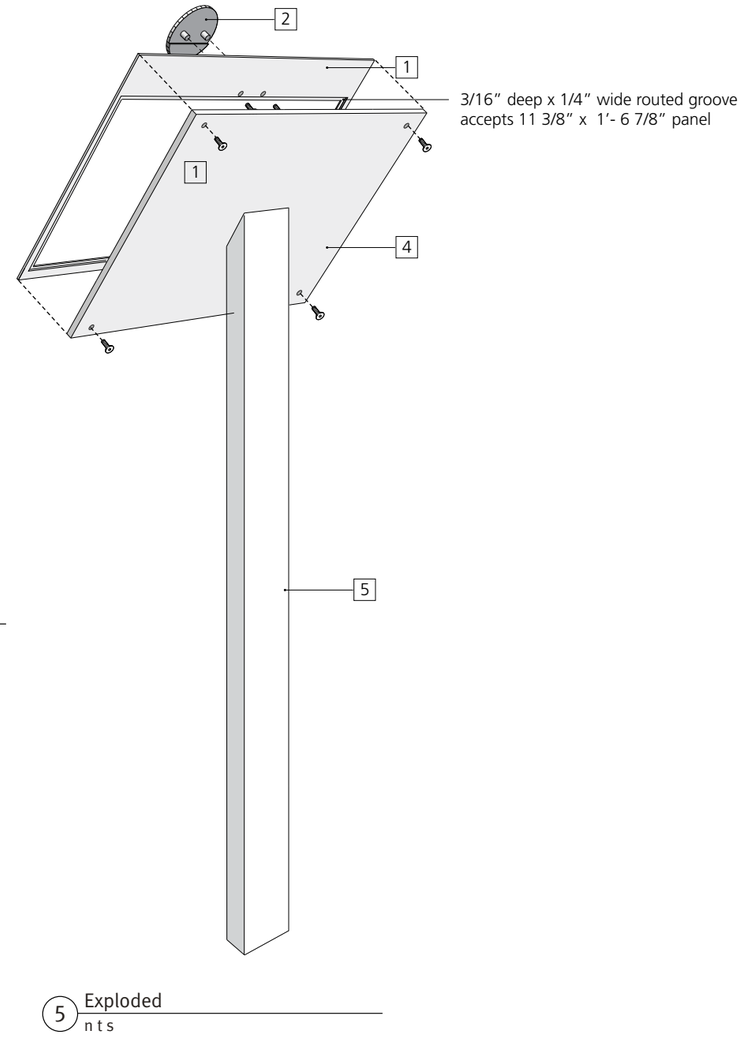


2 Rear Elevation of Front Panel
scale: 1 1/2"=1'-0"



3 Elevations
scale: 1 1/2"=1'-0"

4 Section of Top Panels
scale: 1 1/2"=1'-0"



5 Exploded
n t s

1. 1/4" thick aluminum plate cut and routed to accept 3/16" thick panel - fastened to base plate from rear with tamper-proof fasteners. All fasteners to be flush with surface.
2. 3/16" thick etched zinc seal fastened through front panel from back with tamper-proof fasteners. Back is cut back so seal lays flush on top of interpretive panel.
3. 3/16" thick panel held in place by front panel
4. 3/8" thick aluminum backplate welded to post extrusion in center of back panel
5. 1 1/2" x 3" x 1/4" thick wall aluminum extrusion post
6. Concrete footers (size TBD by fabricator) Top of footers to be below grade and backfilled with river rock.

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Sign Type 41

Small Interpretive Sign
Single-faced freestanding tableau style

Materials

Extruded tube post is welded to heavy gauge aluminum back plate.

Front panel is cut from heavy gauge aluminum sheet with window cut from center. Inside edge is routed to hold message panel. Chemically etched zinc seal of simulated bronze color is mechanically fastened to front panel from rear.

Four color baked aluminum message panel is inset into front frame. Components are assembled and mechanically fastened from rear. Tamper-proof fasteners are countersunk and flush to surface.

Finishes

All aluminum components to be finished with Coraflon fluoropolymer paint per specified colors.

Bronze has bright satin finish with horizontal directional brush.

All fasteners are stainless steel; visible fasteners are painted to match adjacent materials.

Installation

Sign assembly to be direct burial into below grade poured concrete footers. Backfill with soil and topdress with mulch. Fabricator to determine footer dimensions.

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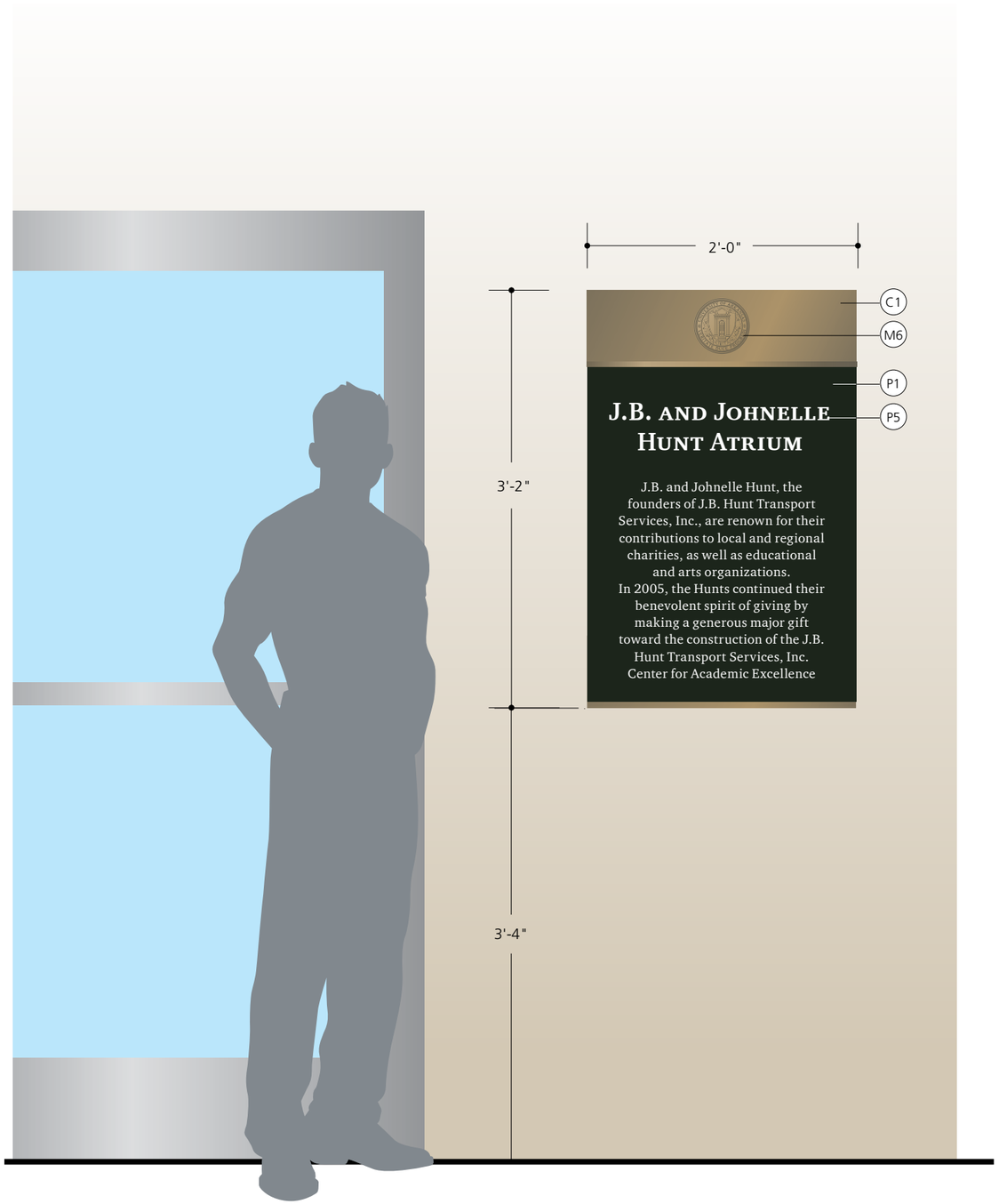
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Elevation ST42 - Donor Recognition Signs
scale: 1"=1'-0"

UNIVERSITY of ARKANSAS

2.55 ELEVATION DRAWINGS

Sign Type 42

Donor Recognition
Wall-mounted sign

Cast bronze plaques with dark oxide background and buff satin letterfaces and horizontal bars.

University seal is cast bronze, stud-mounted to panel.

Plaque is stud-mounted to drilled wall surface with silicone adhesive.

Message copy to be determined.

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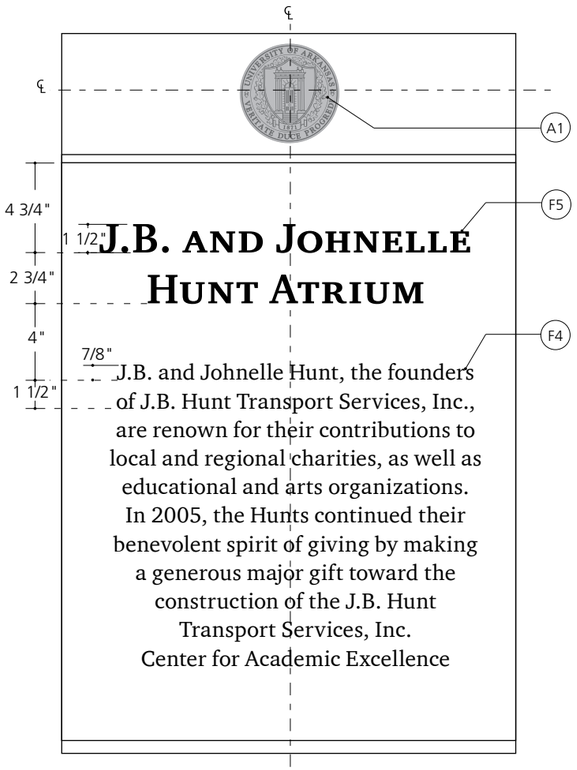
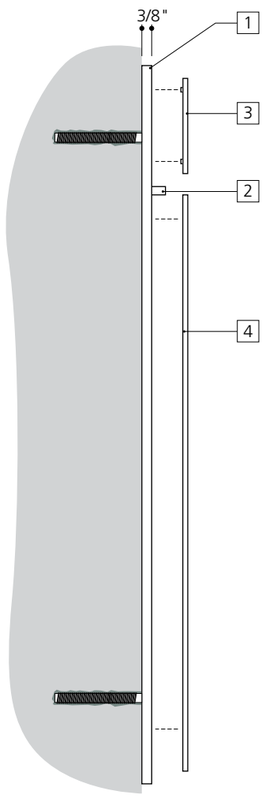
University of Arkansas Signage and Wayfinding Program	**714802.6**

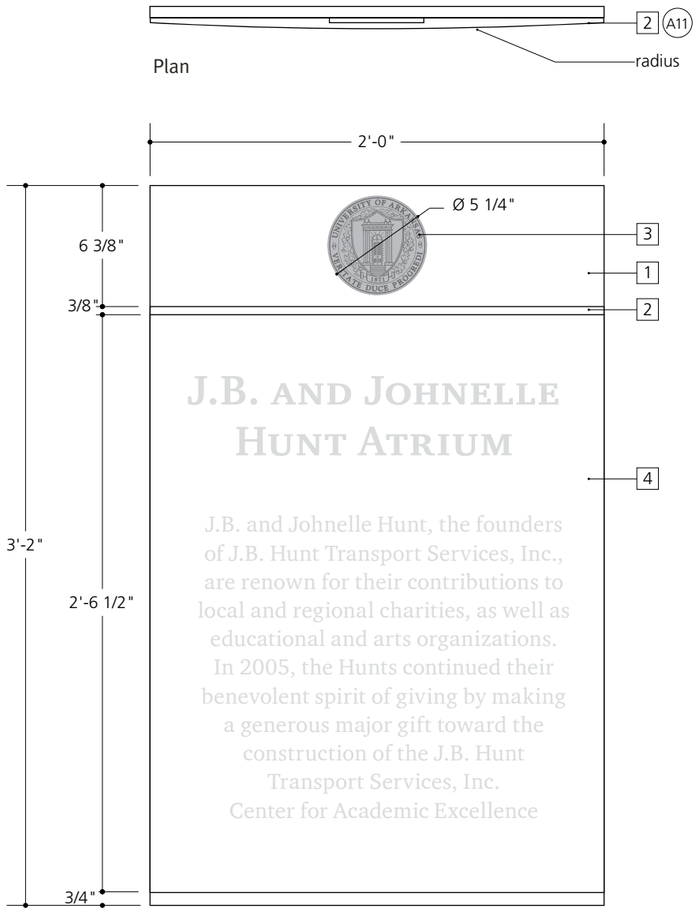
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 ST42 - Layout Guideline
scale: 3 "=1'-0"



Side



Front

Plan

2 Elevations
scale: 1 1/2"=1'-0"

1. 3/8" bronze plate with buff satin horizontal brush finish and welded studs for wall mounting
2. 3/8" radius cut bronze plate with buff satin horizontal brush finish
3. Cast bronze seal with studs
4. .090 painted aluminum face with screen-printed copy adhered to bronze plate

Sign Type 42

Donor Recognition
Wall-mounted sign

Materials

Backplate is bronze plate with bronze radius strip mounted to face. Plate has welded studs for mounting to wall surface.

Bronze seal is mechanically fastened to backplate.

Message plate is aluminum with screen-printed message.

Layout Drawings

Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule.

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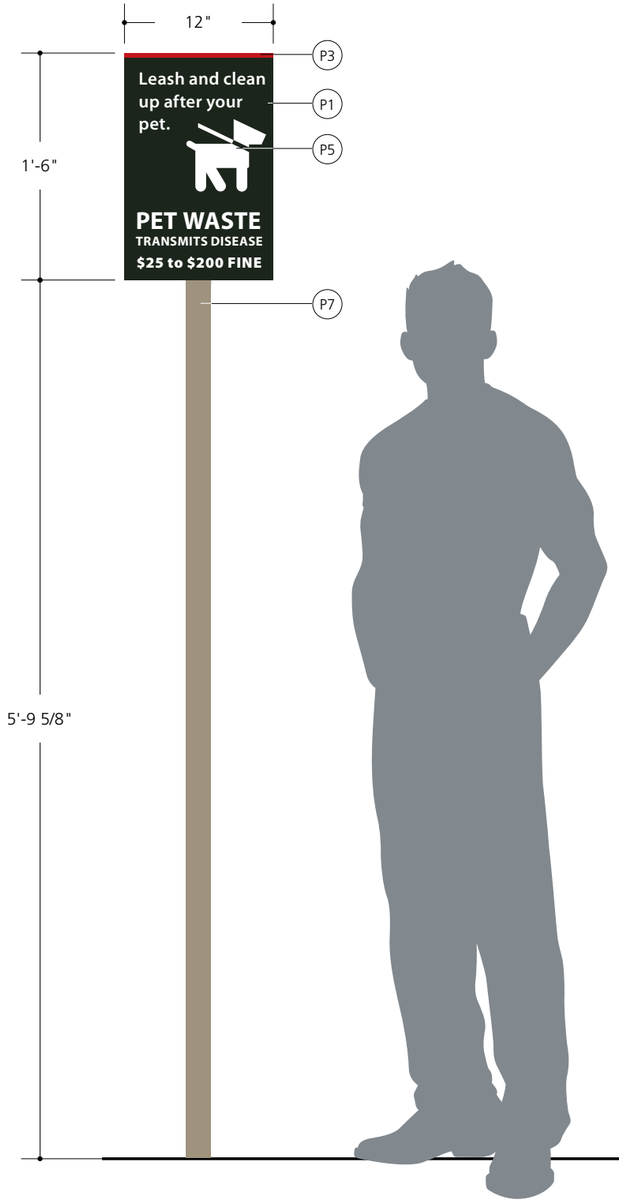
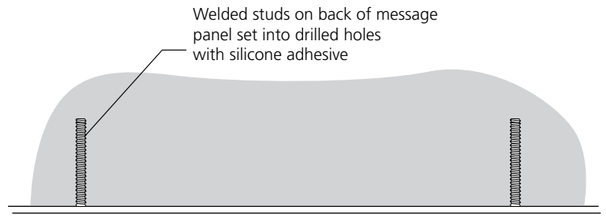
University of Arkansas Signage and Wayfinding Program	**714802.6**

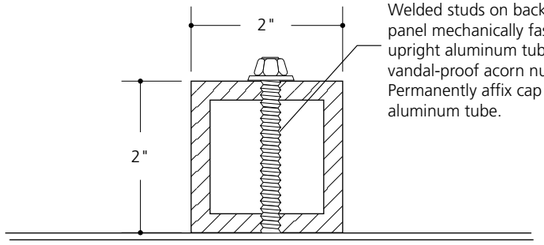
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Elevation ST43 - Regulatory
scale: 1"=1'-0"



2 Plan - wall mounting
half scale



3 Plan - post mounting
half scale

Alternate message - wall mount

Alternate message - parking regulatory

UNIVERSITY of ARKANSAS

2.57 ELEVATION DRAWINGS

Sign Type 43

Regulatory
Post and wall-mounted signs
Single-faced

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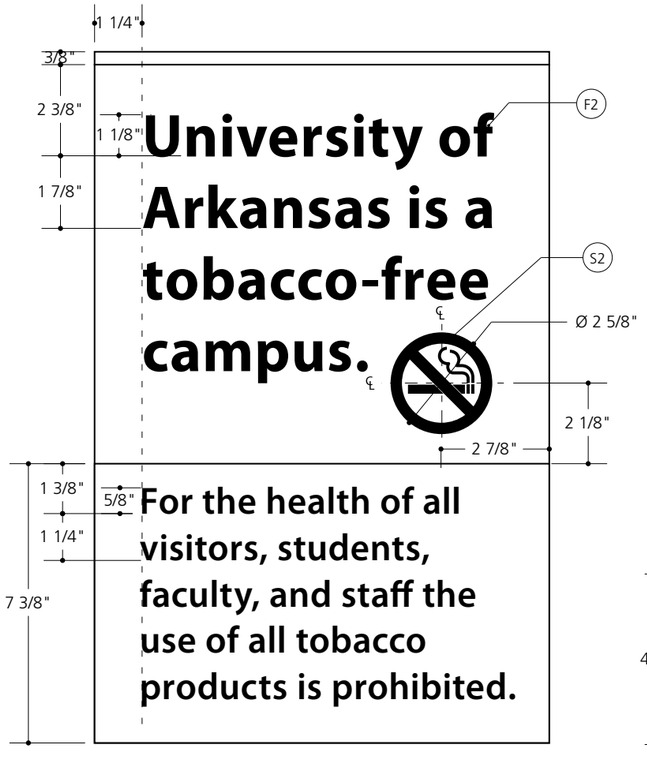
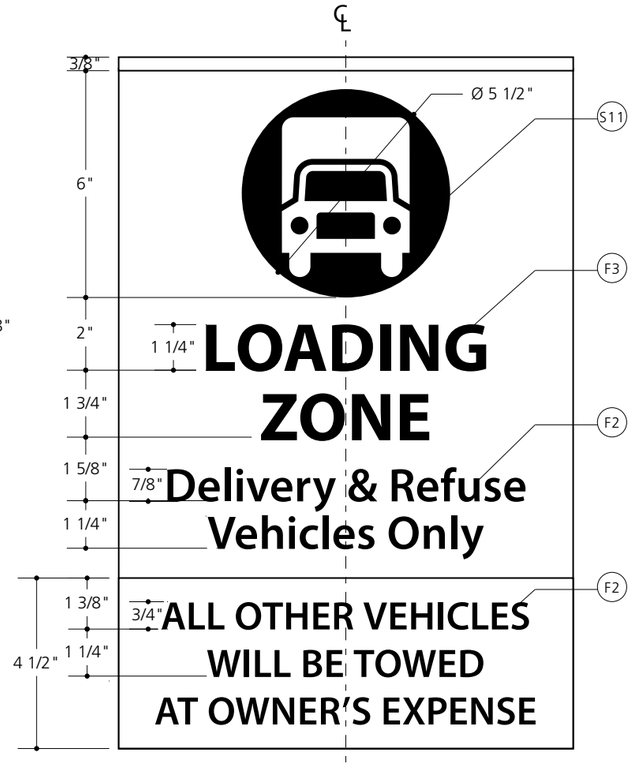
Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A





1 ST43 - Layout Guidelines
scale: 3"= 1'-0"

Sign Type 43

Regulatory
Post and wall-mounted signs
Single-faced

Layout Drawings
Use these graphic guidelines to create layout drawings. Refer to message schedule for approved message copy.

NOTE: Message copy shown is for illustrative purposes only – for exact message content see message schedule.

Graphics
Text, graphics and artwork to be mask and sprayed unless otherwise specified.

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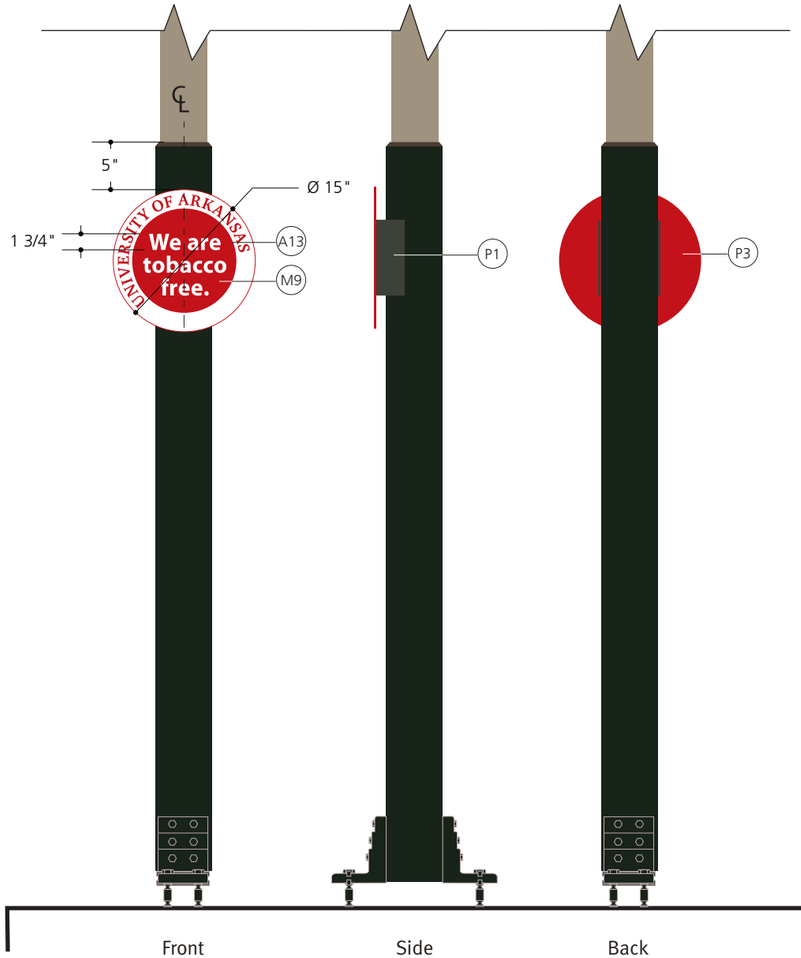
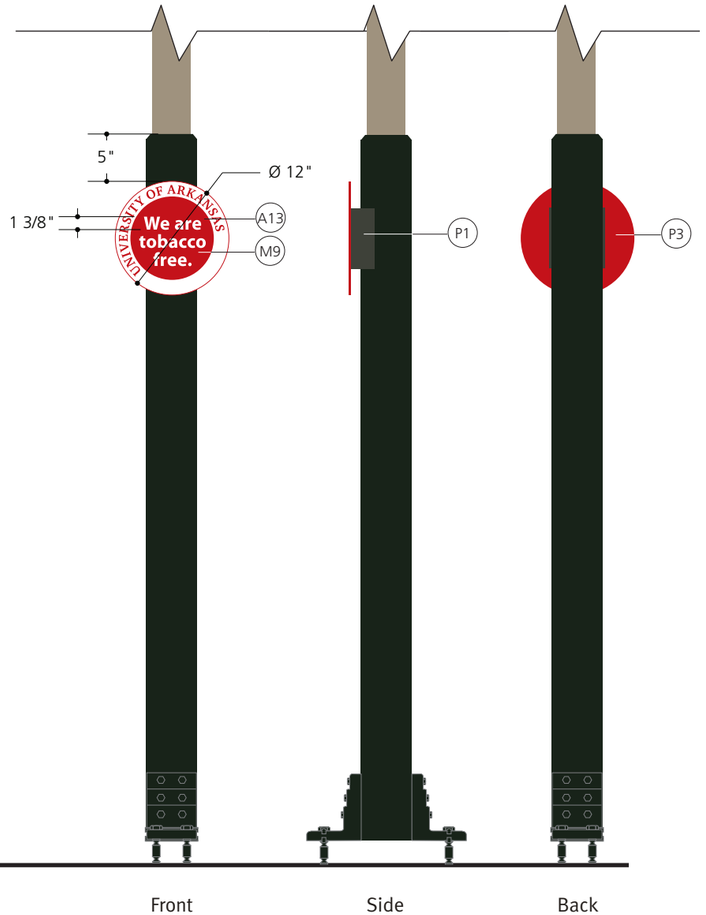
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A



1 Elevations – ST 44.1 Vehicular Directionals
scale: 3/4 "=1'-0"



2 Elevations – ST 44.2 Vehicular Gateways
scale: 3/4 "=1'-0"

3 Context
scale: 1/4 "=1'-0"

Sign Type 44.1 & 44.2

ST44.1 Tobacco-free Sign mounted on Vehicular Directional

ST44.2 Tobacco-free Sign mounted on Vehicular Gateway

Layouts and mounting details for attachment to vehicular directionals and gateways

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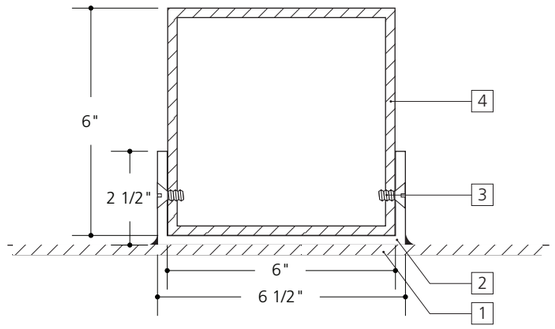
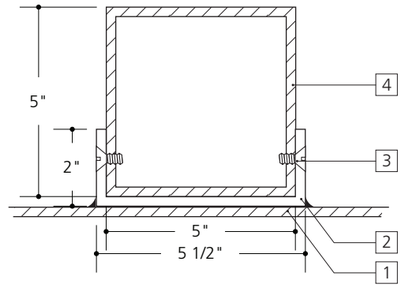
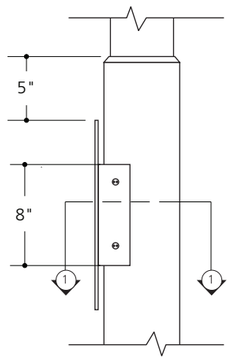


1 Section Plan – ST 44.1 Vehicular Directional
scale: 3 "=1'-0"

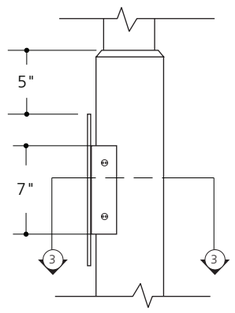


3 Section Plan – ST 44.2 Vehicular Gateway
scale: 3 "=1'-0"

1 .25" thick aluminum message disc w/ applied vinyl art
2 1/4" wall thickness aluminum channel welded to back of message panel
3 mechanically fastened to extruded upright with tamper-proof screws
4 existing aluminum extruded tube with beveled return



2 Elevation – ST 44.1 Vehicular Directional
scale: 1 "=1'-0"



4 Elevation – ST 44.2 Vehicular Gateway
scale: 1 "=1'-0"

Sign Type 44.1 & 44.2

Mounting details for attachment to vehicular directionals and gateways

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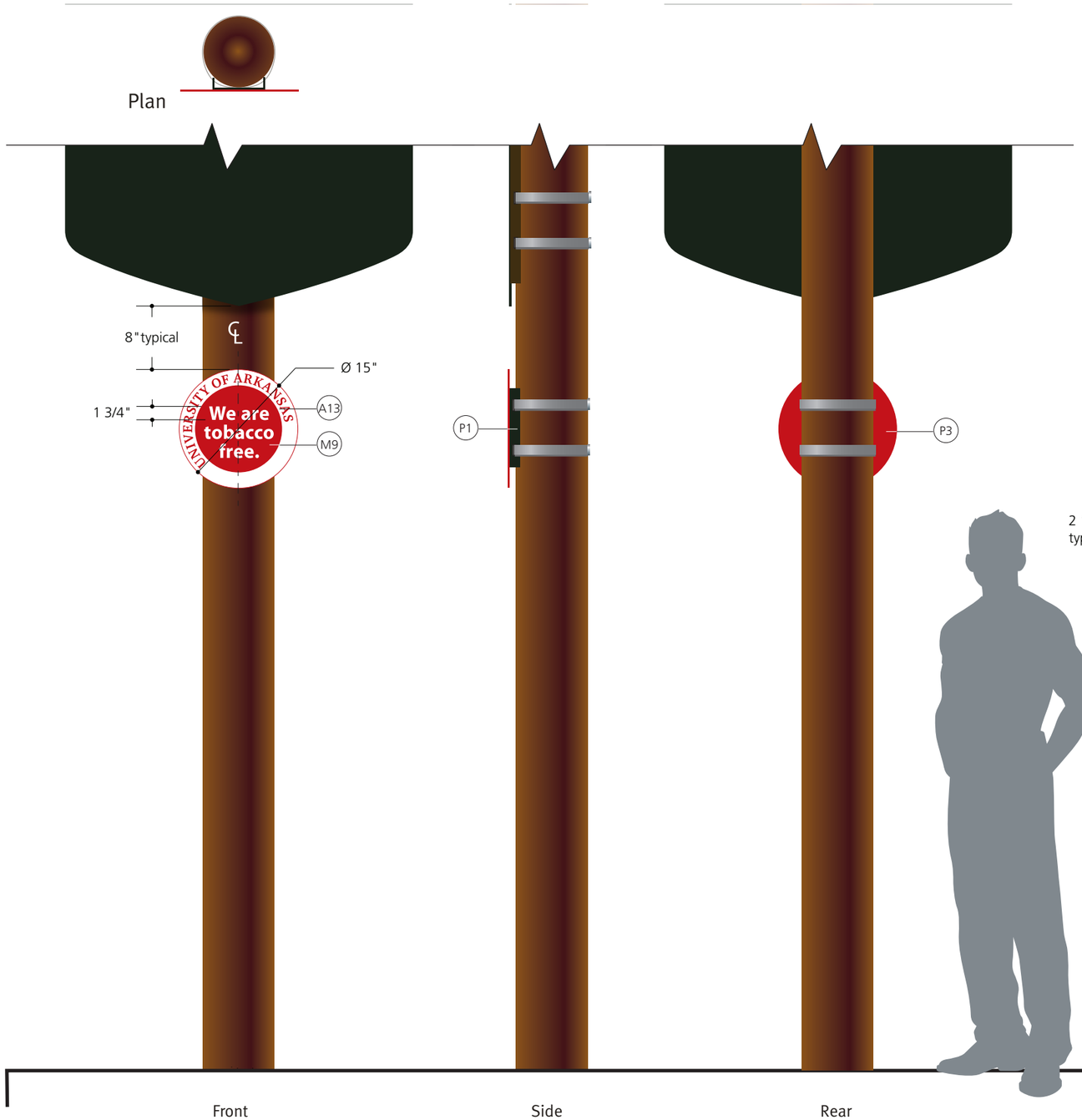
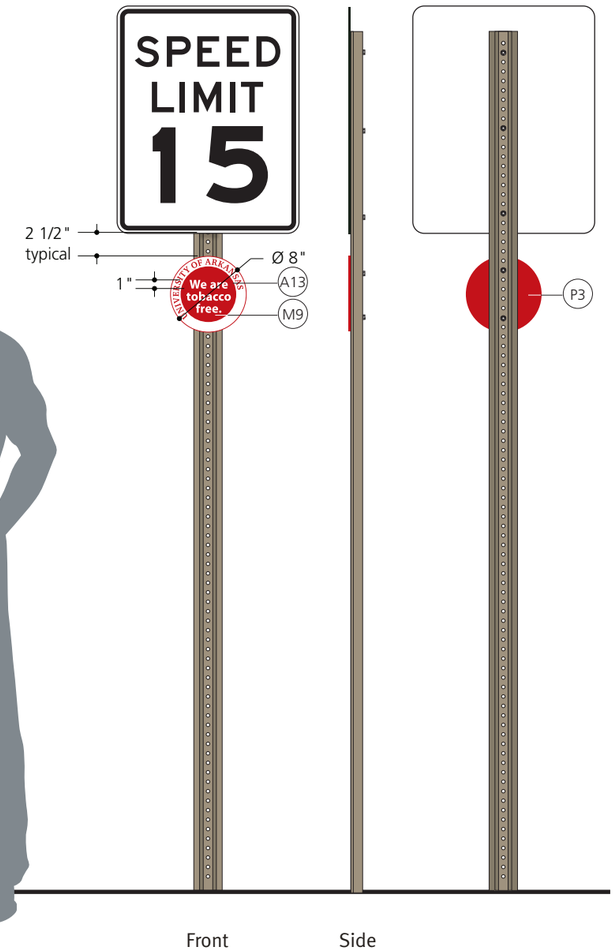
Date	Revisions	Scale
8.13.08	2.20.09, 6.30.09, 7.15.09	N/A



1 Elevations – ST 44.3 Existing Utility Poles
scale: 3/4 "=1'-0"



2 Elevations – ST 44.4 DOT traffic signs
scale: 3/4 "=1'-0"

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2.61 **ELEVATION DRAWINGS**

Sign Type 44.3 & 44.4

ST44.3 Tobacco-free Sign large / mounted on utility pole

ST44.4 Tobacco-free Sign mounted on Vehicular Gateway

Layouts and mounting details for attachment to existing utility poles and DOT traffic signs

Note: Approval for mounting to utility poles or DOT signs may require approval from municipal or state organizations.

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Date	Revisions	Scale
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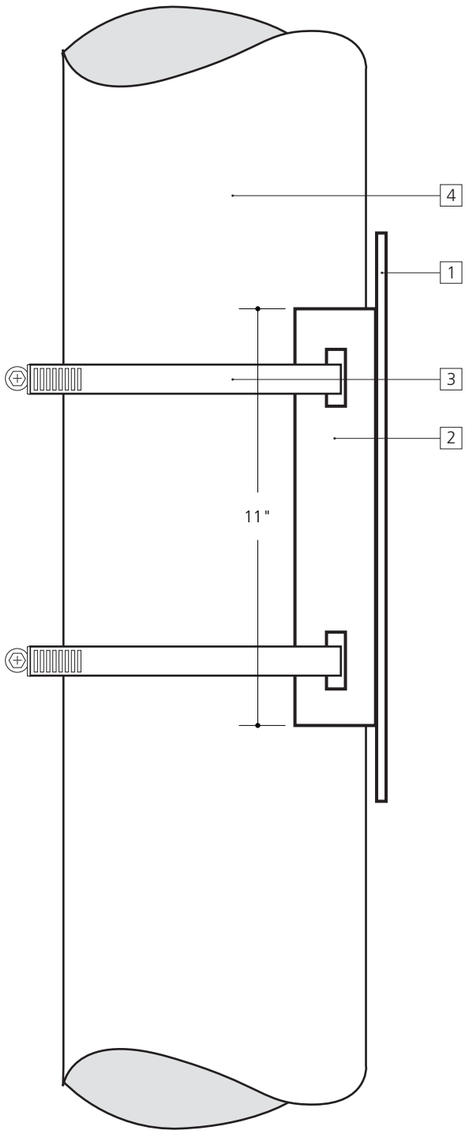
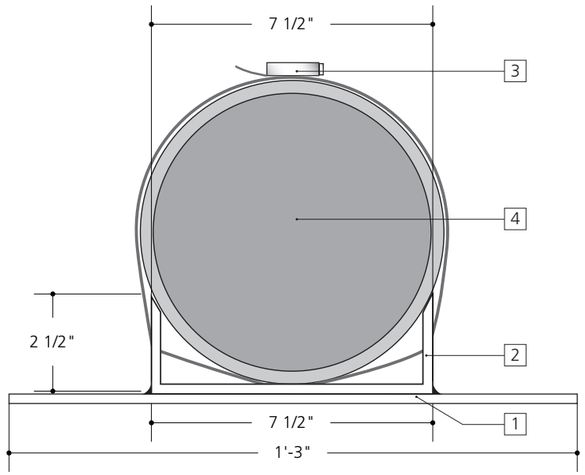


1 Side Elevation – ST44.3 Existing Utility Pole
scale: 1"=1'-0"



2 Section - Plan
scale: 3 "=1'-0"

1 1/4" thick aluminum message panel

2 7 1/2" x 2 1/2" x 1/4" aluminum channel with beveled edge, welded to back of message panel

3 Stainless steel strapping band with ratchet tightener

4 Existing post or telephone pole

Sign Type 44.3

Sign mounting details for attachment to existing utility poles

Note: Approval for mounting to such signs may require approval from municipal or state organizations.

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University of Arkansas Signage and Wayfinding Program		**714802.6**
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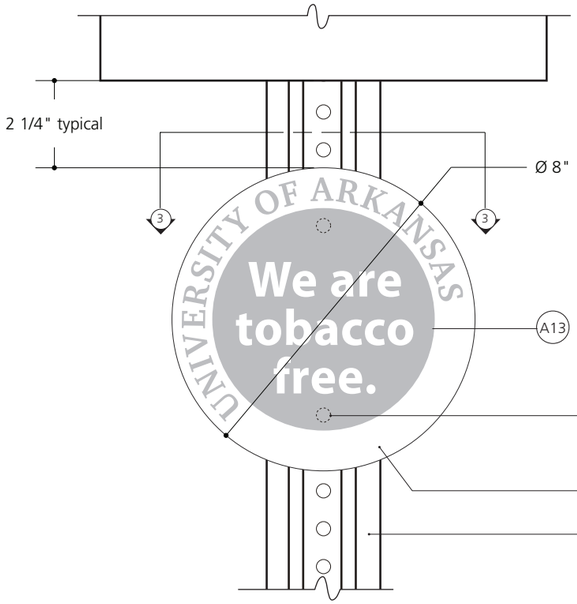
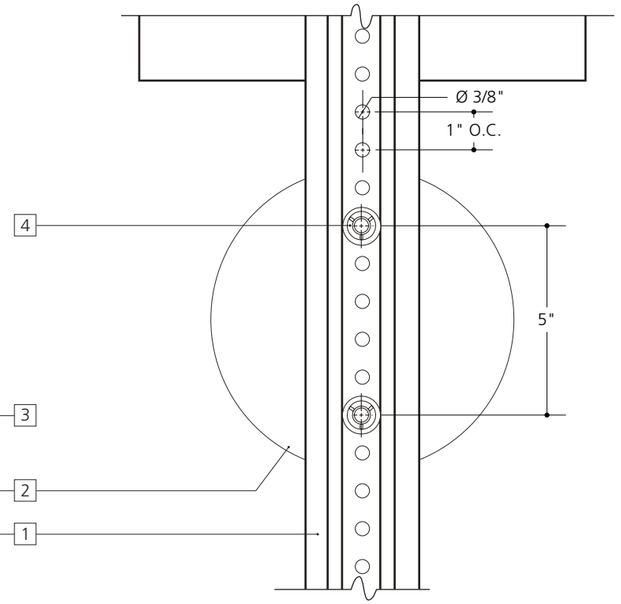
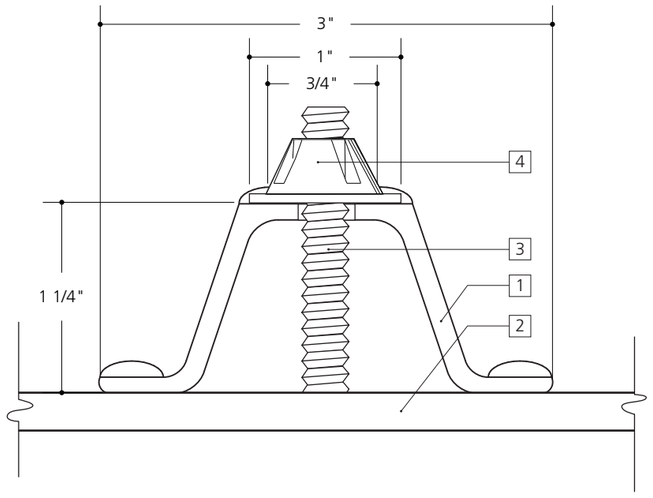


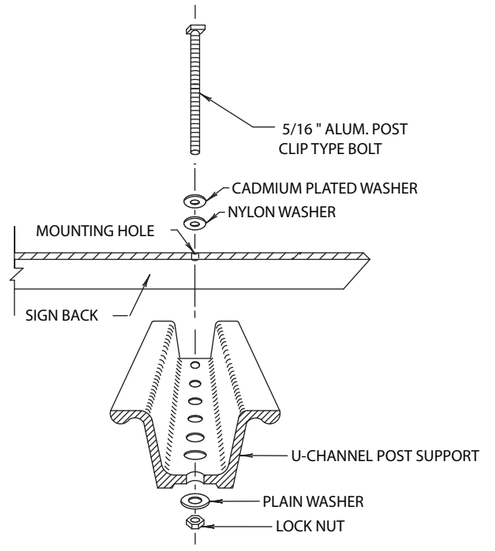
1 Front Elevation – ST 44.4 DOT traffic sign
scale: 3”=1’-0”



2 Rear Elevation – ST 44.4 DOT traffic sign
scale: 3”=1’-0”



3 Section – Plan View
full scale



4 Typical Assembly Detail (WVDOT - Traffic Division)
scale: n.t.s.

1. Existing standard 2lb./ft. DOT U-channel post
2. 1/4" thick aluminum message panel
3. Threaded stud welded to back of sign panel
4. Through bolted to post with tamper-proof nut

Sign Type 44.4

Sign mounting details for attachment to DOT traffic signs

Note: Approval for mounting to such signs may require approval from municipal or state organizations.

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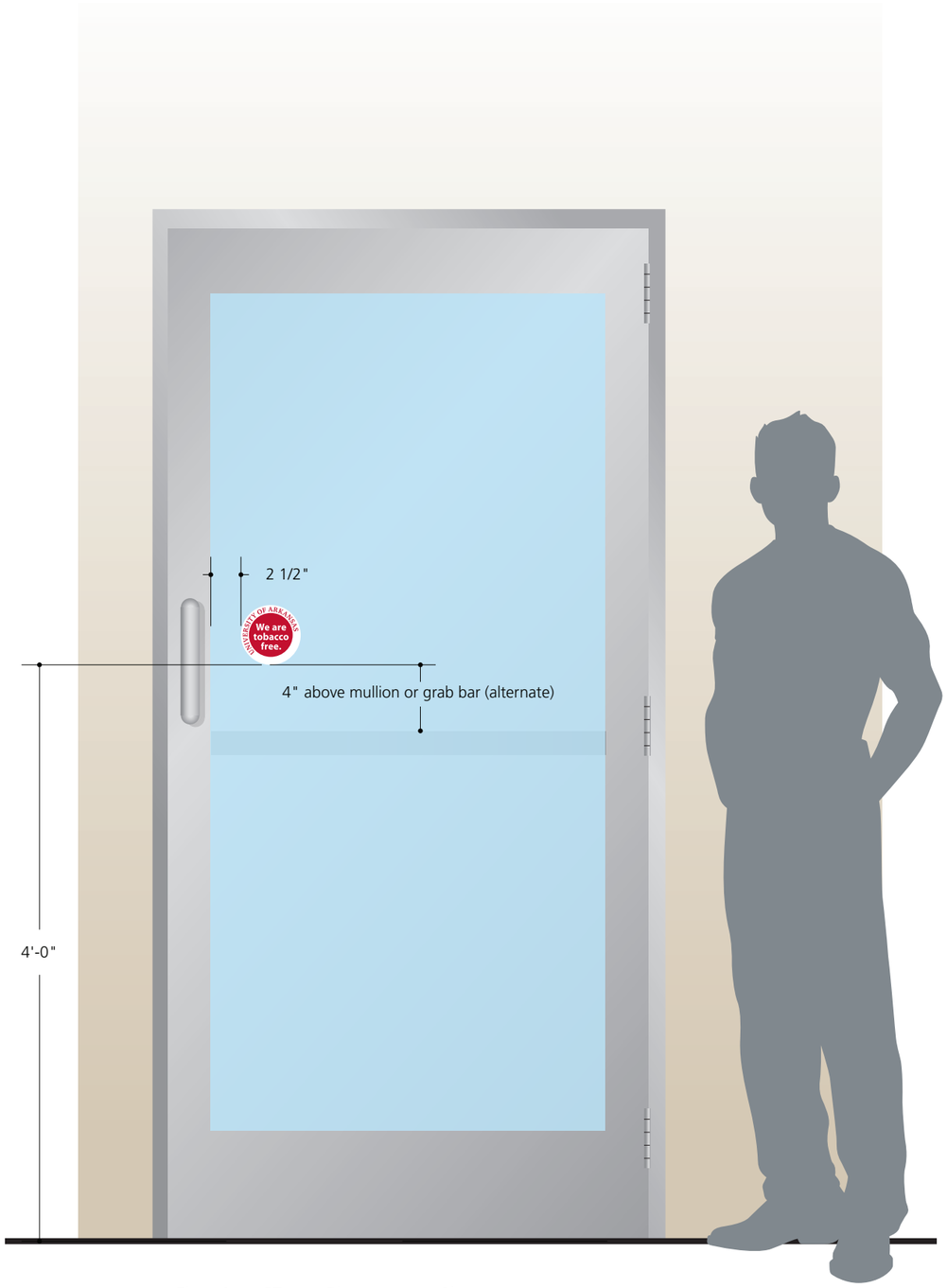
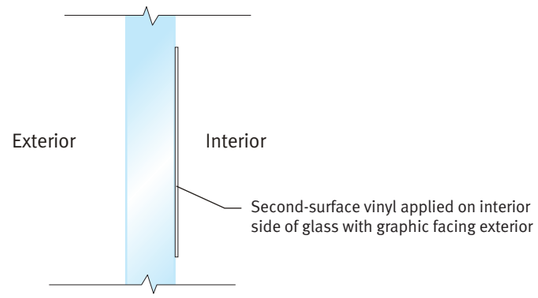
8.13.08	2.20.09, 6.30.09, 7.15.09	N/A



1 Elevation - ST 44.5 Placement on Glass
scale: 1 "=1'-0"

2 Elevation
full scale



3 Section Detail
n.t.s.

UNIVERSITY of ARKANSAS

2.64 ELEVATION DRAWINGS

Sign Type 44.5

Tobacco-free Decal on Glass – Layout and mounting details for locations on glass

Note: Fabricator to verify installation conditions in the field.

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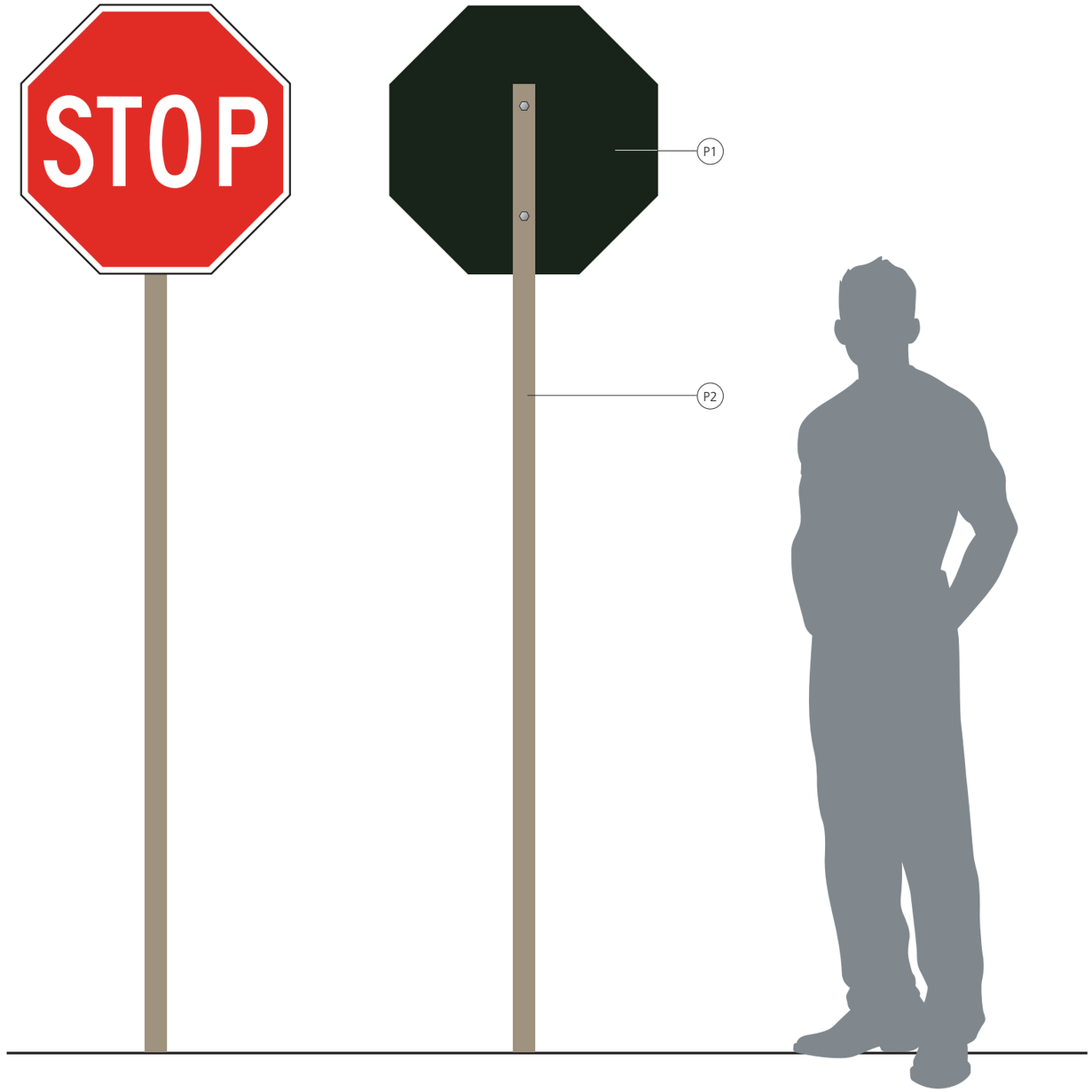

1 Elevation ST45 - Regulatory Spec for Painting
scale: 1"=1'-0"

UNIVERSITY of ARKANSAS

2.65 ELEVATION DRAWINGS

Sign Type 45

Regulatory Specification for Painting Back of Signs Panels and Pole

Fabricator to paint back of standard DOT signage and accompanying posts as shown.

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Vehicular Directional Signs

Message Content

1 **Maximum Destinations:** Signs for motorists shall contain no more than 5 destinations; 3 is preferable.

2 **Maximum Lines of Text:** Signs for motorists shall consist of no more than 6 lines of text. If a destination takes up more than one line then only a maximum of 4 destinations can be accommodated.

3 **Priority of Destinations:** Where items must be omitted due to size or content limits, items of lower priority shall be omitted first. A list of terms with priorities is given below.

Destinations	Priority	No. Lines
University of Arkansas	1	2
Agricultural Extension Cntr	1	2
AR Research & Tech Park	1	2
Admissions	1	1
Carnall Hall	2	1
Facilities Mgmt	2	1
Visitor Information (information symbol)	1	2
Visitor Parking (parking symbol)	1	2
I-540	1	1
I-540 North	1	1
I-540 South	1	1
71-B	1	1

4 **Equal Priorities:** Where items considered for exclusion are of equal priority those destinations closest in the direction of travel should be given priority over those further away.

5 **Symbols:** Only P for Parking and i for information may be used on directional signs due to space limitations.

Organization

6 **Destinations** shall be listed alphabetically within required direction of movement. The order of directions on the signs shall be left, right, and straight ahead starting from the top. This is due to the relative complexity and danger of left-hand turns vis a vis other movements.

Location

General Comments: All directional signs shall be located so that they provide a minimum of 2-foot clearance between the near edge of the sign and the curb face and a minimum of 7.5-foot clearance above the ground. The 2-foot clearance may be reduced to one foot as per MUTCD guidelines where sidewalk is limited or existing poles are close to the curb. In rural areas signs should follow the MUTCD's requirements. (see attached page)

No trailblazers or directional signs should be mounted on different poles within 100 feet of each other on the same side of the road. Care should also be taken that commercial signs in proximity to sign locations do not compete for driver's attention. This will reduce the likelihood of missed messages by motorists.

Signs should not be obscured by plant materials, utility poles, or other signs when viewed anywhere within their intended viewing distance. Sight lines should be judged from the center of travel lanes in the roadway at a point 36 to 48 inches above the road surface (driver's eye height).

Building Identification Signs

General Comments: Entities housed within the building will not be listed on the sign. They will be listed on interior directories in the lobby.

Message Content

23 **Name & Address:** Signs shall have the facility name, facility building code and street address (where applicable.)

25 University Identification: The University Seal will be used in place of the University of Arkansas word mark.

Organization

26 **University Identification:** The University Seal is placed at the top of the sign.

27 **Facility Name:** Facility name is the topmost text item followed by street address, then building code.

Location

Roadway Sign General Considerations: Signs shall be located so that they provide a minimum of 2-foot clearance between the near edge of the sign and the curb face and a minimum of 7.5-foot clearance above the ground. The 2-foot clearance may be reduced to one foot as per MUTCD guidelines where sidewalk is limited or existing poles are close to the curb. In rural areas signs should follow MUTCD's requirements. (see attached page)

30 **Major Street:** Building identification signs shall be located so as to be clearly visible from the roadway adjacent to the facility. This is particularly important where the facility may be set back from the street. The sign should be readable from 150 feet and visible from 250 feet (road topography permitting), so as to allow motorists time to react and move their vehicles safely. Signs should not be set back from the road unless an additional identification sign is installed adjacent to the roadway.

31 **Multiple Roads:** Where the facility is adjacent to more than one road there shall be signs on both roads. If one is a minor road with limited or slow traffic the sign may be smaller than indicated in 1 above. Nonetheless, it should be readable by a motorist from no less than 100 feet away and visible from 200 feet, road topography permitting.

32 **Parking Lot Entrances:** For facilities with major entries within parking lots there shall be building identification signs at the entrance to the parking lot that conforms to the guidelines for the major building identification sign.

33 **Sign Orientation:** Signs for motorists shall be oriented so that they are within 20 degrees of perpendicular to the direction of vehicular travel. Signs for pedestrian use should be perpendicular to major travel directions. In parking lots this may be perpendicular to the building entrance.

34 **Multiple Entrances:** Where there are multiple entrances to a facility each entrance shall have a sign identifying the facility. This is particularly important where there are both street entrances and entrances within a parking lot. Parking lot entry signs should be visible (as opposed to readable) from 200 feet.

35 **Secondary Entrances:** Secondary entrances may have smaller wall-mounted signs. Signs should be readable from 50 feet.

36 **Sight Lines:** Signs should not be obscured by plant material, utility poles, or other signs when viewed anywhere within their intended viewing distance. Sight lines should be judged from the roadway at a point 36 inches above the road surface (driver's eye height).

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N/A

Parking Lot Identification

Message Content

Identification Signs

38 The “P” used as a symbol for Parking

40 The primary type of parking permitted

39 The identification number of the parking lot

41 Symbols identifying the different kinds of permissible parking and loading zones

42 Special notice about event parking

43 Event parking or parking info number

Location

Parking Lot Identification Signs

47 All parking lot entries should have lot identification signs adjacent.

48 All signs shall be located so that they provide a minimum of 2-foot clearance between the near edge of the sign and the curb face and a minimum of 7.6-foot clearance above the ground. The-2 foot clearance may be reduced to one foot as per AHTD guidelines where sidewalk is limited or existing poles are close to the curb.

49 Signs shall be located so as to be visible from the centerpoint of the travel lanes in the adjacent street for a distance of at least 100 feet from a driver eye level of 36 inches above the roadway surface.

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Revisions
2.20.09

Scale
N/A

Installation Height & Lateral Clearance

Directional Signs

Signs erected at the side of the road in rural districts shall be mounted at height of at least 5 feet, measured from the bottom of the sign to the ground level directly below the sign. In business, commercial, and residential districts where parking and/or pedestrian movement is likely to occur, the clearance to the bottom of the sign shall be at least 7'-4". In rural areas, the height of the bottom of a secondary sign mounted below another sign may be one foot less than the noted heights. Although minimum heights are specified, signs may be placed at a greater height to provide better visibility and to eliminate the need to cut off the support posts in order to get an exact sign height. A greater height can also reduce the possibility of vandalism.

Signs should normally be no closer than 6 feet from the edge of the shoulder, or if no shoulder exists, 12 feet from the edge of the travel way. In urban areas, a lateral placement 2 feet from the edge of the face of the curb is recommended, although a clearance of one foot from the curb face is permissible where existing poles are close to the curb (see Figure 2). These lateral clearances may be adjusted slightly to fit field conditions. All lateral clearances are measured to the inside edge of the sign face. When a sign is not protected by a crashworthy barrier (installed for other purposes), use posts of sufficient length that the top of the sign is a minimum of 9 feet above grade. The height requirement helps to ensure that the top of the sign does not penetrate the windshield of an errant vehicle.

Orientation

The majority of signs should be installed at approximate right angles to approaching traffic. On curves, a sign should be at right angles when the driver is about 250 feet from the sign (see Figure 1).

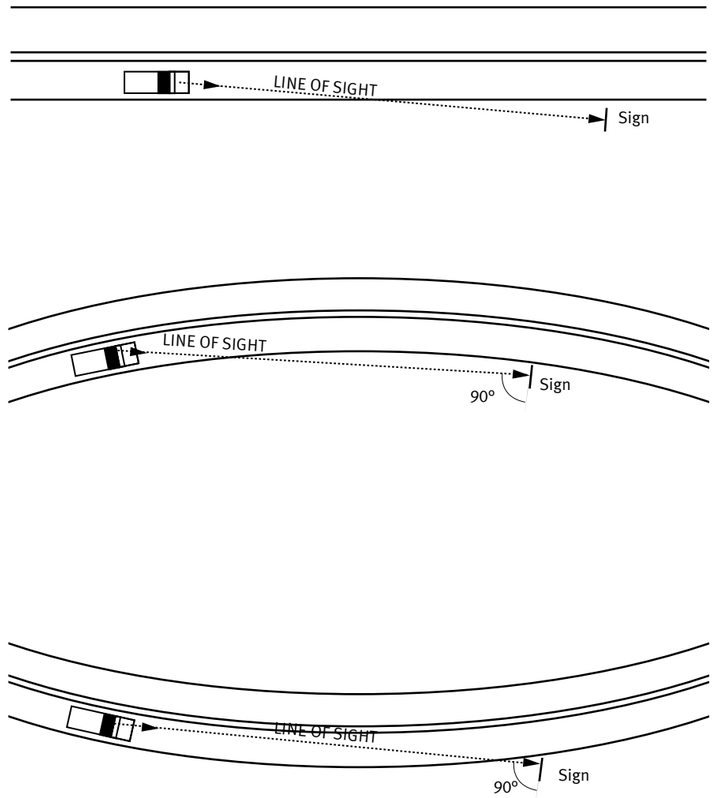

Figure 1 Normal Orientation of Signs

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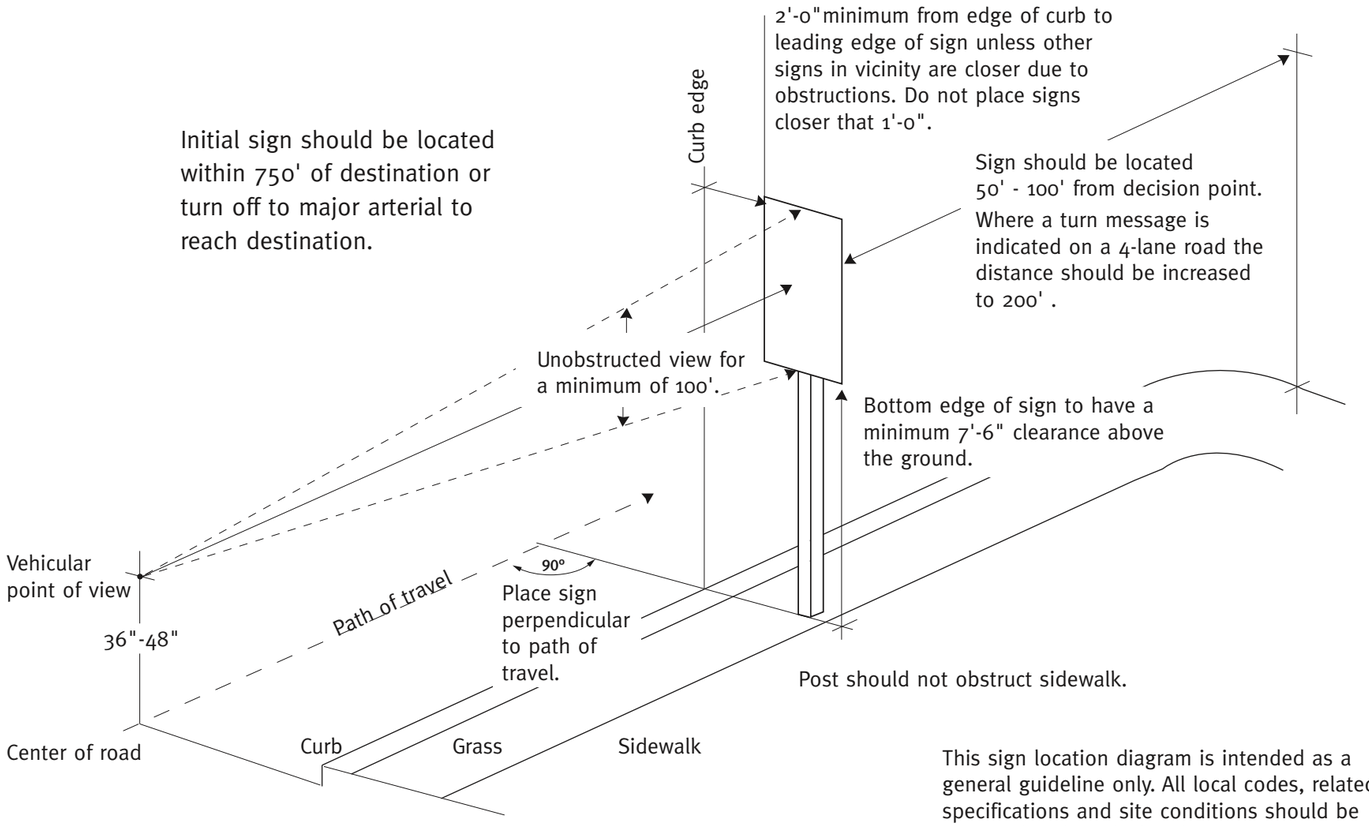

Vehicular Directional Sign

This sign location diagram is intended as a general guideline only. All local codes, related specifications and site conditions should be reviewed and verified with appropriate town or state representatives prior to actual installation.

Vehicular Directionals

Description
Single-faced, post-mounted signs located along primary campus roads.

Criteria

Orientation:
At right angle to traffic flow.

Sight lines:
Unobstructed by plant material, utility poles or other sign elements when viewed within intended viewing distance. Sight lines judged from center of travel lanes in the roadway at a point 36 to 48 inches above the road surface (driver's eye height).

Clearances:
Minimum of 2-foot clearance between the near edge of a sign and the curb face, and a minimum of 7.5-foot clearance above the ground. 2-foot clearance may be reduced to 1 foot where the sidewalk is limited or existing poles are close to curb.

Location of initial sign to destination:
Within 750 feet of destination or turn off of major arterial to reach destination. Approximately 3 blocks or 20 seconds at 25 mph or 15 seconds at 35 mph.

Location of additional sign on block with decision point intersection:
Preferably 200 feet from intersection or entry when left turn is required, or 100 feet from intersection when no left turn is required. Shorter distances may be required to avoid intervening streets or corners between sign and point of decision.

Location of signs to one another:
No trailblazers or directional signs on different poles within 100 feet of each other on same side of road.

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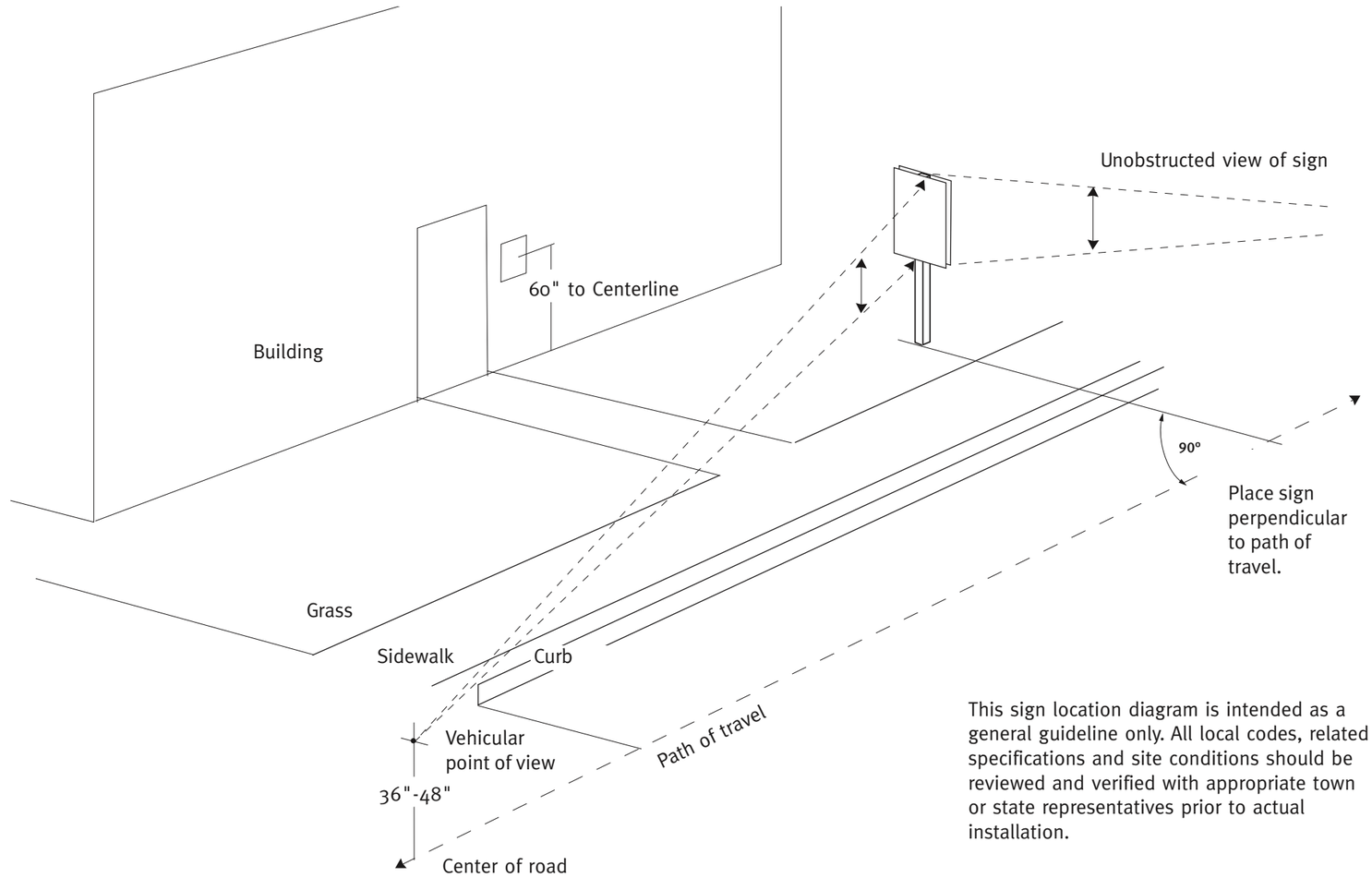

This sign location diagram is intended as a general guideline only. All local codes, related specifications and site conditions should be reviewed and verified with appropriate town or state representatives prior to actual installation.

Building Identification Sign (wall and pole mounted)

Building Identification

Description
Double-faced ground-mounted identification for major campus buildings with large open areas adjacent to building and street.

Criteria

Orientation:
At right angle to traffic flow.

Sight lines:
Unobstructed by plant material, utility poles or other sign elements when viewed within intended viewing distance. Sight lines judged from center of travel lanes in the roadway at a point 36 to 48 inches above the road surface (driver's eye height).

Relationship to street:
For buildings that are set back from the street by a considerable distance or those having a parking lot between building and street a sign should be placed near the edge of the property adjacent to the street(s) fronting the building. Signs may be set back up to 5 feet from adjacent sidewalks to avoid possible conflict with pedestrians.

The location should not be one that can be obscured by parked vehicles. If visual obstruction cannot be avoided then another sign type should be used at the location.

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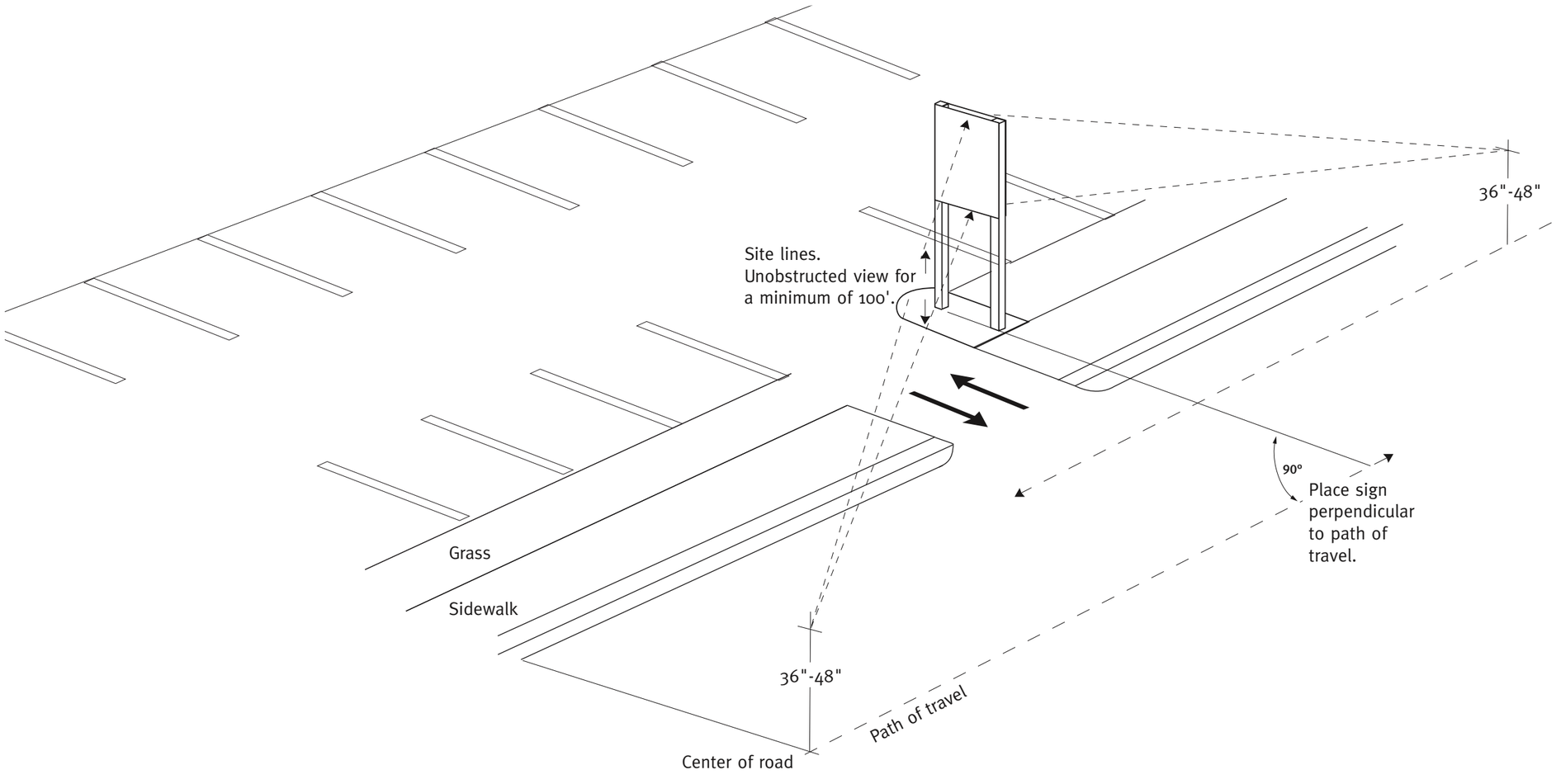

Parking Lot Identification Diagram

Parking Lot Identification

Description
Post-mounted sign located at entrance to parking lot.

Criteria
All parking lot entries should have lot identification signs adjacent.

Sight lines:
Unobstructed by plant material, utility poles or other sign elements when viewed within intended viewing distance. Sight lines judged from center of travel lanes in the roadway at a point 36 to 48 inches above the road surface (driver's eye height).

Clearances:
All signs shall be located so that they provide a minimum of 2-foot clearance between the near edge of the sign and the curb face and a minimum of 7.5-foot clearance above the ground. The 2-foot clearance may be reduced to one foot as per DOT guidelines where sidewalk is limited or existing poles are close to the curb.

Relationship to street:
Signs shall be located so as to be visible from the center point of the travel lanes in the adjacent street for a distance of at least 100 feet from a driver eye level of 36 inches above the roadway surface.

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4.15.08	2.20.09	N/A

PART 1 - General

1.01 Work Included

A Labor, materials, equipment and services necessary for the fabrication, delivery and installation of signage as described in the detail drawings.

B Refer to the message schedule for a complete list of sign types and quantities. Signs listed on message schedule should match those indicated on sign location plans. Contractor to notify designer of any discrepancies in sign quantities by doing take-offs before manufacturing signs.

C Signage is located at the following location:
University of Arkansas - Fayetteville, Arkansas

D For all signs, all fasteners, support structures and electrical connections required for installation.

1.02 Related Work

A General carpentry and painting requirements: all work to be done in a professional manner and to the highest trade standards.

B Power supply and final connections: all work shall meet state and local codes.

C Use OSHA safety requirements as necessary for pedestrian or vehicular safety.

1.03 Regulatory Requirements

A Observe applicable codes, sign ordinances and ADA guidelines for handicapped and fire/life safety signing.

B **For Electrical Work**

1 National Electrical Code

2 National Electrical Safety Code

3 Life Safety Code - NFPA 101

4 OSHA

5 Applicable Federal, State and Local Codes

6 Underwriters Laboratory Inc. (UL)

1.04 Reference Standards

Refer to current editions of the following (as applicable):

A ASTM A36—Structural Steel

B ASTM A123—Zinc (Hot Galvanized) coatings on products fabricated from rodded, pressed and forged steel shapes, plates and bars.

C TM B135 QQ-B-613 (Fed Spec)—Brass, Muntz 280

D ASTM B221—Aluminum-alloy extruded bars, rods, wire, shapes and tubes.

E ASTM D822—Light and water exposure apparatus (carbon-arc type) for testing paint, varnish, lacquer and related products.

F ASTM E84—Surface burning characteristics of building materials.

G FS L-P-391—Plastic sheet, rods and tubing, rigid, cast materials.

H FS L-P-387—Plastic sheet, laminated, thermosetting.

I PS-1—Construction and industrial plywood.

J PEI—Porcelain Enamel Institute.

K UL 943—Fluorescent lamp ballasts.

L CDA—Copper Development Association, Inc.

M AWI—Comply with applicable requirements of "Architectural Woodwork Quality Standards" published by the Architectural Woodwork Institute.

N ASTM C 880—Stone, granite flexural strength testing

O ASTM C 1354—Stone, granite anchorage testing

1.05 SUBMITTALS

A **Bid submittal requirements**

1 All of the following bid submittals must be provided to be considered a qualified bid.

2 All proprietary contractual paperwork provided by the client filled out accurately, including all requested bonding and insurance information.

3 Submit completed line item bid sheet (file provided) with all requested line item prices. Ensure that all row and column totals add up properly. Use the provided format, do not use a different spreadsheet format.

4 Submit a projected project schedule with bid. Schedule will show major milestones such as sample submittals, fabrication, and installation. **The payment schedule will be tied to reaching these milestones.**
Schedule will be updated regularly throughout the project.

A **Requirements**

1 Schedule shop drawings, product data and sample submittals for delivery at the same time.

2 The owner may hold shop drawings, product data and samples in cases where a partial submittal cannot be reviewed until associated items have been received.

3 Allocate not less than four weeks, plus mailing time, for processing by the owner.

B **Schedule**

1 Submit Gantt style schedule with all pertinent dates and milestones for the project.

2 Include submittal delivery dates, fabrication and installation dates

3 Allow several weeks in schedule for review and revision time for all submittals.

4 Revise schedule regularly as project details dictate.

C **Shop Drawings**

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

1 Submit four (4) sets of shop drawings as outlined below.

2 Include plans, elevations, sections and large scale details of sign wording and lettering layout. Show anchorages and accessory items. Provide mounting templates.

3 Show fabrication and installation details, including all sign components such as extrusions, brackets, bracing, hardware, internal framing, foundations, etc.

4 Provide engineering data to confirm viability of signs and supports, including structural stability of all signs, fasteners and foundation design.

5 Structural details must be reviewed and stamped by a state certified structural engineer, ensuring structural integrity and safety.

6 For illuminated sign units: shop drawings shall also include the following:

a Fixture type.

b Fixture and lamp/ballast voltage.

c Fixture and lamp wattage.

d Complete photometric data.

Performance Requirements

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e Wiring diagrams, including connection to building power supply.

f UL registration number (fabricator MUST be UL approved).

D Subcontractor qualifications information

1 The total percentage of subcontracted work on this project is not to exceed 25% including installation.

2 **Fabricator must submit credentials for any subcontractor selected to execute any portion of this contract. This must be submitted with proposal or bid. Demonstrate subs qualifications for doing specified work.**

E Samples

1 Submit four (4) sets of each sample required.

2 Owner reserves the right to reject any samples that do not satisfy the construction, finish or color requirements. Submit additional samples as required to obtain final approval.

3 Samples shall be labeled on the back, designating item number, name of manufacturer, sign type and location.

4 **The following sample submittals are required for this project:**

The following samples must be submitted and approved prior to the fabrication of signs:

1) 4 sets of all color samples including paint and vinyl samples on thin aluminum plates

2) Sample Fossil Graphic map

3) Sample duped interpretive panel

4) Sample ST31 (not job used)

5) 2 sets sample letters, ST33A, 33B, 34A, 34B, 35A and 35B

5 Samples should represent extreme variations in color and texture that might occur during fabrication.

F Maintenance Data

1 Submit two (2) copies of each manufacturer's recommendations for maintenance of all items.

2 The instructions shall cover cleaning, repair, repainting and maintenance of signs, including data on cleaning solutions or methods of application which should be avoided.

1.06 Delivery of attic stock (if any)

A Package separately or in like groups labeled as to contents. Wrap signs in protective plastic or plywood casing. Include installation hardware, adhesives and any installation instructions; include a reasonable array of alternate adhesives, fasteners or materials to be able to respond effectively to varying field conditions.

1.07 Protection

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

B Take special precautions to prevent pilferage both prior to and after installation. Be prepared to provide replacements for any material so removed from the site.

1.08 Inspection

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

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

1.09 Reordering

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

1.10 Warranty

All warranties must match warranty criteria mentioned in this performance specification. Complete and present to client finished paperwork for all separate component warranties.

A Warrant all products (including, but not limited to, materials, hardware and finishes) against any and all manufacturing defects for a minimum period of 2 years from date of installation.

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 the owner's satisfaction.

C Vinyl die-cut letters shall be warranted for five years against delamination from substrate.

D Correct any and all paint finish defects 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 the owner's satisfaction.

Paint finishes shall be warranted as following (see drawings for applicable specified finishes):

1 Fluoropolymer solvent-based paint – 10 years for gloss retention as measured in accordance with ASTM D523 using 60 degree readings. 10 years for color retention as measured by ASTM D2244 Section 6.3 using Hunter LAB Color difference.

E Additional corrections shall include, but not be limited to, the following:

1 Bubbling, crazing, chalking, rusting or other disintegration of the sign face or of the messages or of the 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 the 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 illumination; dark or hot spots.

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PART 2 - Products

1.11 Alternate Fabrication

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

Any proposed changes that impact the fabrication bid costs **must** be made clear upon delivery of bid documents. Bidder will be disqualified for any unannounced changes to the specification.

After contract is awarded, further development and engineering of designer's details (for fabrication and installation) is expected and should be shown in the shop drawings.

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

C Any value engineering financial gains during fabrication shall be split evenly between the contractor and owner.

2.01 Quality Assurance

A Work done and materials furnished shall meet the highest industry standards in every respect and, unless otherwise specified, materials and equipment shall be new and of the latest design.

B Use only personnel thoroughly skilled and experienced with the products and method for fabrication and installation of signage specified.

C The client (or proxy) shall reserve the right to reject any shop drawings, samples or other submittals, as well as any finished product or installation, that cannot meet the standard of quality established. Any such decision will be considered final and not subject to recourse.

D The intent of the contract documents is to provide everything necessary for a complete contract. In the event of conflict or omission, the fabricator shall consult the designer for resolution.

E Materials and hardware not specified, but necessary to the complete functioning of the sign, shall conform to the quality level established.

2.02 Preferred material suppliers

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

A **Fluoropolymer paint**
Coraflon by PPG
412.434.4189

B **Vinyl and vinyl coatings**
3M
800.443.9380

E **Graphic panels – high pressure laminate with 12-color HD printing**
Fossil Industries
631.254.9200
http://www.fossilgraphics.com

F **Cast bronze elements and etched zinc signs**
Matthews International
800.950.1317

G **Acrylic adhesives**
Lord Corporation
866.567.3234

H **Fabricated signs, see potential bidders list.**

2.03 Design Requirements

A **Artwork specifications**

1 All artwork, and custom sign shapes for this project will be provided by client as electronic files on a CD. Only use the layouts from these files. Do not use substitutes or attempt to re-create these images.

2 Refer to design drawings for placement of message copy and images

B **Artwork**

1 The contractor shall be responsible for preparation of all artwork (including, but not limited to type, arrows, imagery, drawings, photographs, symbols) necessary beyond that provided with contract award and for any touch-up of artwork for photographic enlargement. Quality of artwork for finished signage shall be the responsibility of the contractor. The designer reserves the right to reject artwork if it fails to meet the standard of quality established.

2.04 MATERIALS

A **Steel angles/hardware**

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

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

Provide clear acrylic polyurethane coating with a satin sheen (25 degree gloss) finish using the BRACO system manufactured by Matthews Paint Company, Wheeling, Illinois (800.323.6593 or 414.947.0700). Methods of surface preparation, coating and drying

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FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

Client/Project	Project No.
University of Arkansas Signage and Wayfinding Program	**714802.6**

Date	Revisions	Scale
8.12.08	2.20.09, 6.30.09, 9.15.09	N/A

PART 2 - Products (continued)

should strictly follow those recommended by the manufacturer. Fabricator to build up 3–4 mils dried film on finished sign.

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

E **Paint for aluminum components:**
Fluoropolymer -Solvent based -Coraflon ADS - PP
Two component fluoropolymer finish with 100% FEVE (fluropolymer) resin and an aliphatic isocyanate curing agent. Degree of gloss is specified in design drawings. Solvent clean bare aluminum per SSPC SP-1. ADS wash primer ADS225/ADS226 @ .03-.05 Mils DFT.

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

Paint touch-up process - Coraflon

1 **Do not touch up scratches using paintbrush.**

2 Prep area by sanding with a very fine grit sandpaper. Mix Coraflon products on site immediately before spraying. Spray all locations with scratches in one batch. Mix Component A - Coraflon ADS and Component B - Coraflon ADS1B (curing agent) Spray. Expected pot-life for this product is four hours. Apply paint using a PREVAL Spray Gun - available at: www.prevalspraygun.com

3 Spray in an even motion, feathering the edge of the spray perimeter

4 Protect message panels, adjacent areas and ground beneath signs from overspray.

F **Acrylic:** cast acrylic sheet, in thicknesses and colors specified. Flame polish exposed edges. Exposed edges must be free of saw marks.

G **Pressure sensitive legends**

1 Use "3M" brand film. Thickness: .003 inch minimum, .006 inch maximum. Material shall consist of a tough, flexible, pigmented, vinyl film and shall be processed with compatible screen printing inks and clear coatings as recommended by the film manufacturer. The film shall be pre-coated with pressure-sensitive adhesive. The adhesive shall be protected by a treated paper liner which shall be easily removable without soaking in water or other solvents.

2 Use "Scotchlite" brand reflective sheeting manufactured by 3M. Thickness: .0065 inch minimum, .0075 inch maximum. Material shall consist of transparent plastic having a smooth, flat outer surface embedded with spherical lens elements. Material shall be capable to being processed with compatible screen printing inks and clear coatings as recommended by the sheeting manufacturer. The sheeting shall be pre-coated by a treated paper liner that shall be easily removable without soaking in water or other solvents.

3 Shall be guaranteed against delamination for a period of 5 years.

H **Concrete:** Cast-in-place concrete shall meet the requirements of section 03300 and as follows:

1 All concrete footers are to be poured in place.

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

3 Concrete to meet specified “PSI Test” for strength: 3,500 psi minimum.

4 Concrete to meet specified “Slump test” before pouring footing.

5 All footings to extend past the frost line (36”) .

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

7 Finish: All exposed faces of concrete shall receive a finish to match existing, adjacent surfaces.

I **Cast bronze:**

1 Molten bronze poured into sand molds.

2 Finishes as specified in design intent drawings.

J **Etched bronze:**

1 Bronze plate chemically etched

K **Etched zinc:**

1 Zinc plate chemically etched

L **Adhesives**

1 ***Acrylic and light aluminum panels*** - VHB tape
Very high bond acrylic tape for bonding metals and plastics. VHB can be used on both finished and unfinished surfaces. Prepare surface by removing grease, loose contaminants and oxidized spots using an isopropanol wipe down no more than fifteen minutes prior to adhesion.

2 ***Heavy gauge aluminum sheets and components*** -
Lord 201 Acrylic adhesive
Two-part acrylic structural adhesive for bonding metals and plastics. Series 201 can bond both finished and unfinished surfaces.
Prepare surface by removing grease, loose contaminents and oxidized spots.
Apply by spraying rolling or brushing on single surface to produce bond lines 5-10 mils thick and both surfaces to produce 25-50 mils thick.
Use Lord spec charts to determine correct accelerator process.

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

4 **Liquid adhesive:** Silicone Silastic 732 RTV adhesive/sealant as manufactured by Dow Corning.

2.05 FABRICATION

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

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

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

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

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PART 2 - Products (continued)

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

F **Construction:** fabricate all joints, corners, miters, etc., with work accurately machined, filed and fitted, rigidly framed together at joints and contact points. Carefully match all work to provide a perfect continuity of lines and design, with metal in contact having hairline joints. Make joints of such character and assembly to be strong and as rigid as adjoining sections. Make exposed joints where joint is least conspicuous. Corners shall be square as indicated. All edges shall be finished and free of saw marks.

All edges exposed to pedestrian traffic shall be eased.

Allow for expansion and contraction of materials from temperature changes, especially when two materials with different coefficients of expansion are used together.

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

G **Engineering:** All shop drawings must be reviewed and sealed by a state licensed engineer.
All sign types shall be engineered to eliminate buckling of any members, failure at any points, distortions or other damage.

The system shall be engineered to be rigid with minimum deflection and rotation under stress and shall be able to withstand movement, shear and torsional loads.

Exposed areas of signs shall not oilcan. Signs shall be designed as structurally self-supporting units. The suspension systems and substructure shall be designed by the sign manufacturer to perform in accordance with the contract documents.

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

I **Sign panels - general**

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

2 Material: sign panel material is stated in the schedules under "Notes" and/or on drawings.

3 All signs shall have opaque background and opaque graphics except signs with illuminated faces.

J **Anchors and fastenings**

1 Mechanical

- a Provide anchors and fasteners required to secure work in place.
- b Surface finish: do not expose fastenings on surface of sign panels unless specifically noted otherwise. Do not deform, distort or discolor sign face surfaces by attachment of concealed fastenings.
- c Corrosion resistance: all fastenings shall be non-corrosive and resistant to oxidation or other corrosive action, of the same composition completely through their cross sections, particularly when used below grade. Use highest quality stainless steel hardware and fasteners.
- d Anchors, inserts or fasteners shall be compatible with sign materials, shall not result in galvanic action or chemical interaction of adhesives and shall have demonstrable and sufficient strength for intended use.
- e Steel anchors and fastenings for exterior use shall be galvanized in accordance with ASTM A153.
- f Stability: fabricate and install signs with fastenings to withstand all actions imposed by use; 30 psf wind perpendicular to surfaces, water, ice, snow loads and similar forces.
- g Anchor bolts in concrete shall be cast in place. Manufacturer shall furnish instructions for the setting of anchors and bearing plates. Manufacturer shall ascertain that the items are properly set during the process of the work.
- h Color: secure work with fastenings of same color and finish as the components they secure where they are exposed to view, unless noted otherwise.
- i Security: All exposed fasteners must be vandal resistant and have vandal-proof “spanner” type slots to be removed only with a special driver head.

K **Messages**

1 Layout: layouts are shown on the drawings. All messages including braille shall be flush left, unless noted otherwise. Correct line breaks are indicated in the "Message" column of the schedule and should be followed exactly. Braille line breaks shall match those of the raised copy. **Any problems in message layout shall be brought to the attention of the owner for solution.**

2 Fabrication: execute all signs such that letter forms are true and clean. Letter forms with rounded corners, or chipped, nicked, cut or ragged edges, will not be accepted. This applies to all methods of fabrication and copy application.

3 Copy: message copy on detail drawings is for layout purposes only. Actual copy is listed in the "Message" column of the schedule. Certain copy may be provided later by the owner.

4 Capitalization: directions for upper and lower case are found in the "Message" column of the schedule must be followed exactly.

5 Single or double faces: all signs that are double sided will be noted as such in the drawings and message schedule. For double sided signs, the message will be indicated as "Side A" and "Side B" or "Side C" and "Side D".

L **Surface or subsurface-applied messages**

1 Reflectivity and specular gloss

- a Nonreflectorized message: 60 degree specular in accordance with ASTM Test D523.

2 Thickness: as indicated in specifications herein.

3 Color and color fastness

- a Exposed surfaces and finishes shall show no discernible color change or chalking when exposed for 1,000 hours in an Atlas Twin Arc Weathermaster Model HCDL-X, or equivalent, when tested in accordance with ASTM D822.

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

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

6 Artwork: contractor shall be responsible for all final reproduction artwork for all messages, symbols, arrows

7 Fabrication:

- a Screened messages: execute all silk screen printing in such a manner that all edges and corners of finished letterforms are true and clean. Letterforms, color areas or lines with rounded corners, edge buildup or bleeding, sawtoothing, etc., will not be

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accepted. Execute all silkscreening from photo-screens prepared from typesetter's reproduction of the copy specified. Typesetter's reproductions shall be the actual size specified. All above work is included in this contract. Hand cut screens will not be acceptable.

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

PART 3 - Execution

3.01 Inspection

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

3.02 Installation

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

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

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

It shall be the responsibility of the Contractor to coordinate with Facilities Management to determine the need for road by the use of test pit excavation prior to excavation operations. Contractor is responsible to contact proper facilities management for utility locates not less than 48 hours before any digging.

C **Provide whatever replacement concrete, bricks, etc. are necessary to match adjacent surfaces exactly.**

D **Note that this institution experiences heavy public use.** Signs must be securely mounted. Contractor is responsible for suggesting alternative fabrication or installation methods if required to prevent theft or vandalism.

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

F **Clean and polish, remove excess adhesive.**

3.03 Cleanup

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

3.04 Property Damage

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

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