

Borough of Media, PA

Wayfinding and Signage System

DESIGN INTENT DRAWINGS

June 30, 2016

merJe
ENVIRONMENTS & EXPERIENCES

120 North Church Street

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West Chester, PA 19380

T 484.266.0648

www.merjedesign.com

Section 1 – SIGN SYSTEM STANDARDS

A. Graphic Standards
Typography Specifications..... A.1
Vehicular Terminologies A.5
Project Artwork..... A.7
Reflective and Opaque Vinyl Color Chart..... A.9
Paint and Material Color Chart A.10

B. Placement Guidelines
Vehicular Signage..... B.1
Lateral Clearance..... B.4

Section 2 – SIGNAGE DRAWINGS

C. Menu of Sign Types
Gateway Identification C.1
Vehicular Directional C.2
Parking C.4
Pedestrian..... C.5
Street Signs, Banners C.6

D. Design Intent Drawings
GATE.1..... D.1
GATE.2 D.2
GATE.3 D.3
DIST.1 D.4
DIST.1a D.5
DIST.2 D.6
VDIR.1 D.7
VDIR.2 D.8
VDIR.3 D.9
VDIR.4 D.10
VDIR.5 D.11
VDIR.6 D.12
VDIR.7 D.13
VDIR.8 D.14
RES.1 D.15
PARK.1 D.16
PARK.2 D.17
PARK.3 D.18
PARK.4 D.19
PARK.5-7 D.20
PDIR.1 D.21
PDIR.2.2 D.22
KIOSK.1 D.23
KIOSK.2 D.24
COURT.1 D.25
COURT.2 D.26
BANNER.1-2 D.27

E. Graphic Layouts
GATE.3 E.1
VDIR.1 E.2
VDIR.2 E.3
VDIR.3 E.5

VDIR.4-5 E.6
VDIR.6 E.7
VDIR.7 E.8
VDIR.8 E.9
RES.1 E.10
PARK.1 E.11
PARK.2 E.12
PARK.3 E.14
PDIR.1-2 E.15
COURT.1 E.22
COURT.2 E.23

F. Construction Details
GATE.2 Section Details F.1
VDIR.1-8 SectionDetails F.2
PARK.1-3, PDIR.2 F.3
COURT.1-2, KIOSK.2 F.4
Finial Details F.5
GATE.1 F.6
GATE.3 F.7
Transpo Break-Safe Details F.8
Foundation F.9
Plate-to-Plate Footer Details F.10
Footer Placement F.11
Ground Lighting Details F.12
PermaBanner F.13
Phillips Colorblast F.14
Klus Regolor Lighting F.19

G. Performance Specifications

Table of Contents

A | Graphic Standards

TYPEFACE FOR: VEHICULAR GUIDE SIGNS

Clearview Highway

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

1234567890 " ! @ # \$ % ^

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

Downtown

acceptable

Downtown

NOT acceptable

D o w n t o w n

NOT acceptable

123A

acceptable

123A

NOT acceptable

1 2 3 A

NOT acceptable

SPECIFICATIONS

The Clearview typeface is the required message font for vehicular sign types VDIR.1-8, & PARK.1

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

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

Clearview Highway

 This apostrophe is CORRECT.

PARK'S

 This apostrophe is INCORRECT.

PARK'S

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PROJECT NO.

SUBCONSULTANT

SHEET TITLE

DATE 06/30/16

DRAWN BY: LH

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REVISIONS

Typography Specifications

SHEET NO.

A.1

TYPEFACE FOR: GATEWAYS, PARKING & PEDESTRIAN SIGNAGE

Scala Regular

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

1234567890 !@#\$%^

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

Downtown
acceptable

Downtown
NOT acceptable

Downtown
NOT acceptable

123A
acceptable

123A
NOT acceptable

123A
NOT acceptable

SPECIFICATIONS

The Scala Regular typeface is utilized on the Gateways, Parking and Pedestrian signs.

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

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REVISIONS

Typography Specifications

SHEET NO.

A.2

LETTER-SPACING

Inconsistencies in Letter Spacing

TYPEFACE 1

Media

TYPEFACE 2

Media

Corrected Letter Spacing

TYPEFACE 1

Media

TYPEFACE 2

Media

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

SIGN TEXT STANDARDS

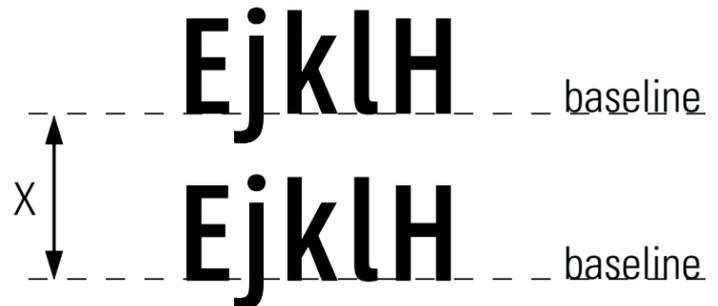
COPY HEIGHT

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



LINE SPACING

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



SPECIFICATIONS

Individual spacing of each letter needs to be evaluated. All copy shall be kerned so that each character is optically centered between the center of each of the surrounding characters.

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REVISIONS

SHEET TITLE

Typography Specifications

SHEET NO.

A.3

SPECIFICATIONS

Terminology shown represents graphic breaks for Vehicular Directional signs with 4 inch high copy.

ALL TYPE SHALL BE SET EXACTLY AS SPECIFIED.

SIGN TYPES:

- VDIR.1**
- VDIR.2**
- VDIR.3**
- RES.1**

NOTES

The Owner, and destination shown, shall verify all terminology and abbreviations are accurate.

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REVISIONS

SHEET TITLE

Vehicular Terminologies
4" High Copy

SHEET NO.

A.4

3'-4" Vehicular Panel Width

DISTRICTS

State St
District

GOVERNMENT

Municipal
Center

Delaware Co
Courthouse

PARKS & RECREATION

Glen Providence
Park

Cherry St
Fields

Houtman
Park

SERVICES

Rose Tree Dist
School Offices

Youth Center

TRANSPORTATION

Media
Station 

ARTS & CULTURE

Media
Theatre

Media
Free Library

Hedgerow
Theatre

PUBLIC PARKING

Orange St 
Lot

Baltimore 
Ave Garage

State St 
Lot

Church St 
Lot

Front St 
Lot

Olive St 
Lot

Gayley St 
Lot

Garage 
Upper Levels

Public 
Parking

SPECIFICATIONS

Terminology shown represents graphic breaks for Vehicular Directional signs with 5 inch high copy.
ALL TYPE SHALL BE SET EXACTLY AS SPECIFIED.

SIGN TYPES:
 VDIR.7
 VDIR.8

NOTES

- Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
- Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
- All exposed edges painted to match adjacent face.
- Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

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	PROJECT NO.

SUBCONSULTANT		SHEET TITLE Vehicular Terminologies 5" High Copy
DATE 06/30/16	DRAWN BY: LH	
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		SHEET NO.
REVISIONS		

A.5

3'-10" Vehicular Panel Width

DISTRICTS

State St
District

GOVERNMENT

Municipal
Center

 Delaware Co
Courthouse

PARKS & RECREATION

Glen Providence
Park

 Cherry St
Fields

 Houtman
Park

SERVICES

Rose Tree
Dist School
Offices

 Youth Center

TRANSPORTATION

Media
Station 

ARTS & CULTURE

Media
Theatre

 Media
Free Library

 Hedgerow
Theatre

PUBLIC PARKING

Orange
St Lot 

 Baltimore
Ave Garage

 State St
Lot 

 Church
St Lot 

 Front
St Lot 

 Olive St
Lot 

 Gayley
St Lot 

 Garage
Upper
Levels 

 Public
Parking 

SPECIFICATIONS

Terminology shown represents graphic breaks for Vehicular Directional signs with 6 inch high copy.

ALL TYPE SHALL BE SET EXACTLY AS SPECIFIED.

SIGN TYPES:
VDIR.4
VDIR.5
VDIR.6

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

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SUBCONSULTANT		PROJECT NO.
DATE 06/30/16	DRAWN BY: LH	SHEET TITLE Vehicular Terminologies 6" High Copy
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REVISIONS		SHEET NO. A.6

6'-0" Vehicular Panel Width

DISTRICTS

State St District

GOVERNMENT

Municipal Center

Delaware Co Courthouse

PARKS & RECREATION

Glen Providence Park

Cherry St Fields

Houtman Park

SERVICES

Rose Tree Dist School Offices

Youth Center

TRANSPORTATION

Media Station 

ARTS & CULTURE

Media Theatre

Media Free Library

Hedgerow Theatre

PUBLIC PARKING

Orange St Lot 

Baltimore Ave Garage 

State St Lot 

Church St Lot 

Front St Lot 

Olive St Lot 

Gayley St Lot 

Garage Upper Levels 

Public Parking 

1'-4" Message Width

DISTRICTS	
State St District	↑
Plum St Mall	
GOVERNMENT	
Delaware County Courthouse	
PARKS & RECREATION	
Barral Park	
Glen Providence Park	
HISTORY	
Media Presbyterian Church	
Minshall House	
Pennsylvania Veterans Museum	

SERVICES	
Fellowship House	
TRANSPORTATION	
Media Station	🚏
Providence Road Station	
ARTS & CULTURE	
Media Theatre	
Upper Providence Free Library	
Delaware Co Institue of Science	

PUBLIC PARKING	
Orange St Lot	P
Baltimore Ave Garage	P
State St Lot	P
Church St Lot	P
Front St Lot	P
Olive St lot	P
Gayley St Lot	P

SPECIFICATIONS

Terminology shown represents graphic breaks for Pedestrian Directional signs with 1 inch high copy.

ALL TYPE SHALL BE SET EXACTLY AS SPECIFIED.

SIGN TYPES:
PDIR.1
PDIR.2

NOTES

- Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
- Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
- All exposed edges painted to match adjacent face.
- Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

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REVISIONS		SHEET NO.
		A.7

LOGO ELEMENTS



MEDIA

SYMBOLS

Utilized in Vehicular and Pedestrian Directional signage



Information



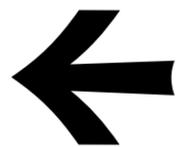
Parking



Train Station

ARROWS

Utilized in Vehicular & Pedestrian Directional signage



Left Arrow



Up-Left Arrow



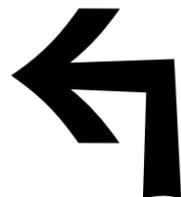
Straight Arrow



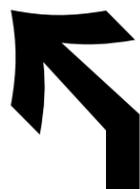
Up-Right Arrow



Right Arrow



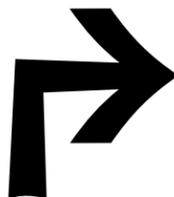
Straight-Left Arrow



Up-Straight-Left Arrow



Up-Straight-Right Arrow



Straight-Right Arrow

SPECIFICATIONS

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

USE of Arrows

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



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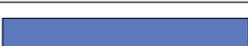
REVISIONS

Project Artwork
Vehicular Signage

SHEET NO.

A.8

R REFLECTIVE VINYL	NAME	SPECIFICATION	APPLICABLE	PROCESS
R1	 White	3M High Intensity Prismatic Reflective Sheeting 3930 Color: White	Standard for System (typ.)	Knockout White: Background and Characters 3M custom inks direct to 3930 with 3M approved Clear UV/Graffiti overlaminate. *Applied according to Manufacturers Spec to aluminum sheet.
R2	 Blue	3M High Intensity Prismatic Reflective Sheeting 3930 Color Match: Pantone® 7545 C/Matthews Paint 22028	Standard for System (typ.)	Custom Color: Background and Characters 3M custom inks direct to 3930 with 3M approved Clear UV/Graffiti overlaminate. *Applied according to Manufacturers Spec to aluminum sheet.
R3	 Parking Green 1	3M High Intensity Prismatic Reflective Sheeting 3930 Color Match: Pantone® 7732 C	Standard for System (typ.)	Custom Color: Background and Characters 3M custom inks direct to 3930 with 3M approved Clear UV/Graffiti overlaminate. *Applied according to Manufacturers Spec to aluminum sheet.
R4	 Parking Green 2	3M High Intensity Prismatic Reflective Sheeting 3930 Color Match: Pantone® 7485 C	Standard for System (typ.)	Custom Color: Background and Characters 3M custom inks direct to 3930 with 3M approved Clear UV/Graffiti overlaminate. *Applied according to Manufacturers Spec to aluminum sheet.
<p>* MUST comply with MUTCD section Table 2A-3 – Minimum maintained retroreflectivity levels. Approved process: Durst RHO 161 TS printer. Sherine Industries: (604) 513-1887. NOTE: All 3M products are to be processed and applied according to 3M specifications. The seaming of material is NOT preferred. If the height of a sign panel is greater than 48 inches, the 3M 3930 material should be oriented vertically with stripes at 0 degrees, to avoid the seaming of material. If seaming is required, it should occur at the rule line or between messages.</p>				

V VINYL	NAME	SPECIFICATION	APPLICABLE	PROCESS
V1	 White	3M Scotchcal ElectroCut Opaque Vinyl Film 7725-10 White	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V2	 Blue	3M Scotchcal ElectroCut Opaque Vinyl Film Color Match: Pantone® 7545 C/Matthews Paint 22028	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V3	 Parking Green 1	3M Scotchcal ElectroCut Opaque Vinyl Film Color Match: Pantone® 7732 C	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V4	 Parking Green 2	3M Scotchcal ElectroCut Opaque Vinyl Film Color Match: Pantone® 7485 C	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V5	 Parking Green 1	3M Scotchcal ElectroCut Translucent Vinyl Film Color Match: Pantone® 7732 C	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V6	 Parking Green 2	3M Scotchcal ElectroCut Translucent Vinyl Film Color Match: Pantone® 7485 C	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V7	 Pink	3M Scotchcal ElectroCut Opaque Vinyl Film Pink 3630-108	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V8	 Yellow	3M Scotchcal ElectroCut Opaque Vinyl Film Yellow 3630-015	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V9	 Blue	3M Scotchcal ElectroCut Translucent Vinyl Film Intense Blue 3630-127	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V10	 Green	3M Scotchcal ElectroCut Translucent Vinyl Film Lime Green 3630-136	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.

SPECIFICATIONS

The FABRICATOR must submit three (3) identical sets of each color specified for approval prior to any painting. Sample paint swatches must be produced on .080" aluminum sheet, approximately 3" x 6", including primer and free of defects. Sample material swatches should be the same approximate size. Samples MUST have project and color specifications attached to back side.

The colors must look exactly the same every time they are used so that people associate them with the Media Wayfinding Program. All media, vinyl, paint, and inks must be produced so that the colors match as specified on this page.

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REVISIONS

SHEET TITLE

Reflective and Opaque Vinyl Color Chart

SHEET NO.

A.9

P PAINTS	NAME	SPECIFICATION	APPLICABLE	PROCESS
P1	 White	Matthews Paint MP 11477	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P2	 Blue	To match Matthews Paint 22028	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P3	 Green Metallic	To match Matthews Paint 42083	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P4	 Parking Green 1	To match Pantone® 7732 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P5	 Parking Green 2	To match Pantone® 7485 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P6	 Info Blue 1	To match Pantone® 2132 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P7	 Info Blue 2	To match Pantone® 277 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P8	 Dark Blue Metallic	To match Matthews Paint 22028	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P9	 Silver	To match Matthews Paint 18082	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P10	 Black	To match Matthews Paint 30914	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P11	 Yellow Metallic	To match Matthews Paint 20354	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P12	 Gray	To match Pantone® 2333 C	Standard for System (typ.)	
P13	 Courthouse Teal	To match Pantone® 625 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P14	 Light Gray	To match Pantone® 434 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P15	 Pink Metallic	To match Matthews Paint 22289	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P16	 Dark Steel	To match Matthews Paint 56389	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P17	 Light Blue Metallic	To match Matthews Paint 22026	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.

M MATERIALS	NAME	SPECIFICATION	PROCESS
M1	 Brick		
M2	 Stone		
M3	 Dye-Sub	dHPL exterior grade	Hi resolution CMYK printed graphics set into phenolic resin exterior grade panels.
M4	 Aluminum	Pin-mounted (non-corrosive) individual aluminum letters	Clear anodizing over natural aluminum finish
M5	 Mosaic Tile		Hi resolution CMYK printed graphics set into phenolic resin exterior grade panels.
M6	 Concrete	Formed concrete cap/ base	
M7	 Acrylite	ACRYLITE® Satinice (DP9) Lollipop 4H12 DC	
M8	 Acrylite	ACRYLITE® Satinice (DP9) Mandarin 2H08 DC	
M9	 Acrylite	ACRYLITE® Satinice (DP9) Sky Blue 5C01 DC	
M10	 Acrylite	ACRYLITE® Satinice (DP9) Kiwi 6H07 DC	
M11	 Acrylite	ACRYLITE® Colorless Satinice	

SPECIFICATIONS

The FABRICATOR must submit three (3) identical sets of each color specified for approval prior to any painting. Sample paint swatches must be produced on .080" aluminum sheet, approximately 3" x 6", including primer and free of defects. Sample material swatches should be the same approximate size. Samples MUST have project and color specifications attached to back side.

The colors must look exactly the same every time they are used so that people associate them with the Media Wayfinding Program. All media, vinyl, paint, and inks must be produced so that the colors match as specified on this page.

NOTES

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www.merjedesign.com

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

DATE 06/30/16

DRAWN BY: LH

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REVISIONS

SHEET NO.

A.10

B | Placement Guidelines

Figure 1

Sign A: VDIR.1-6

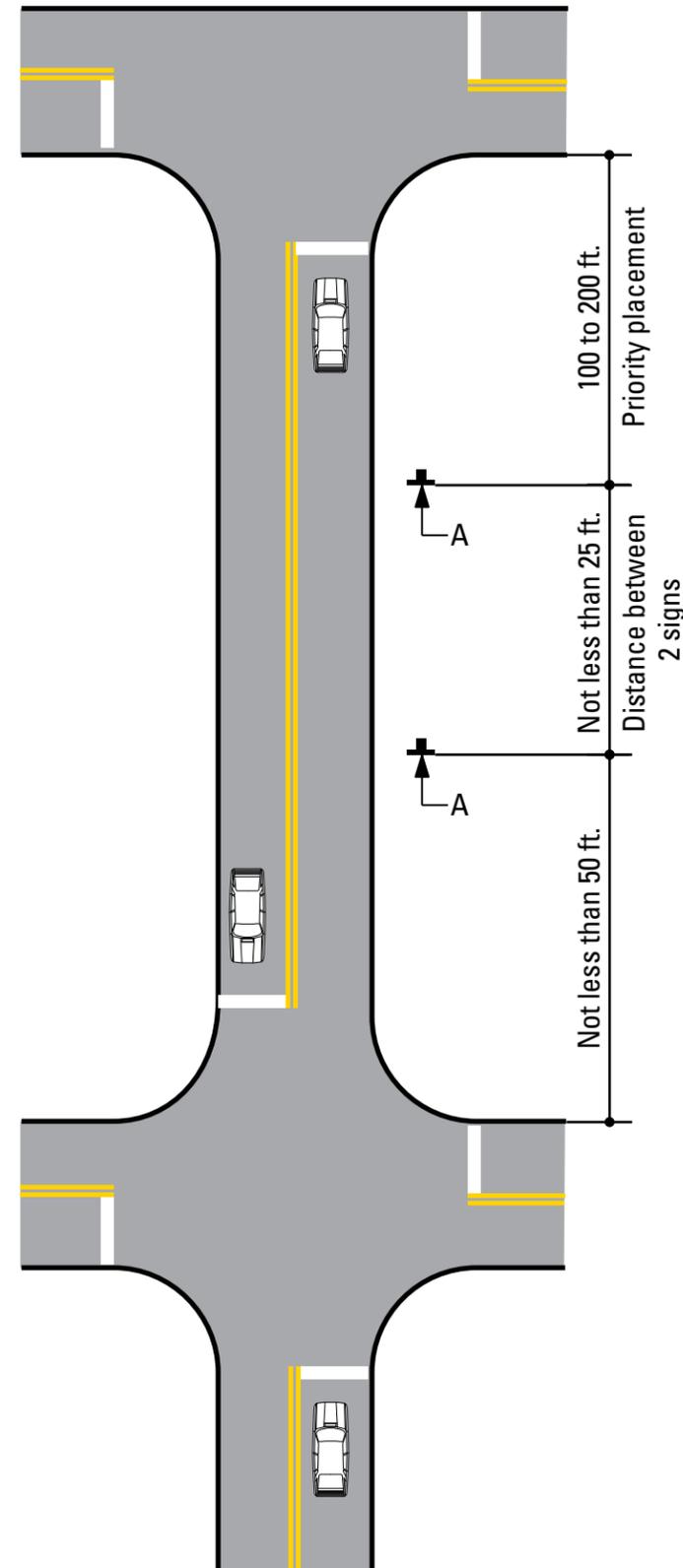
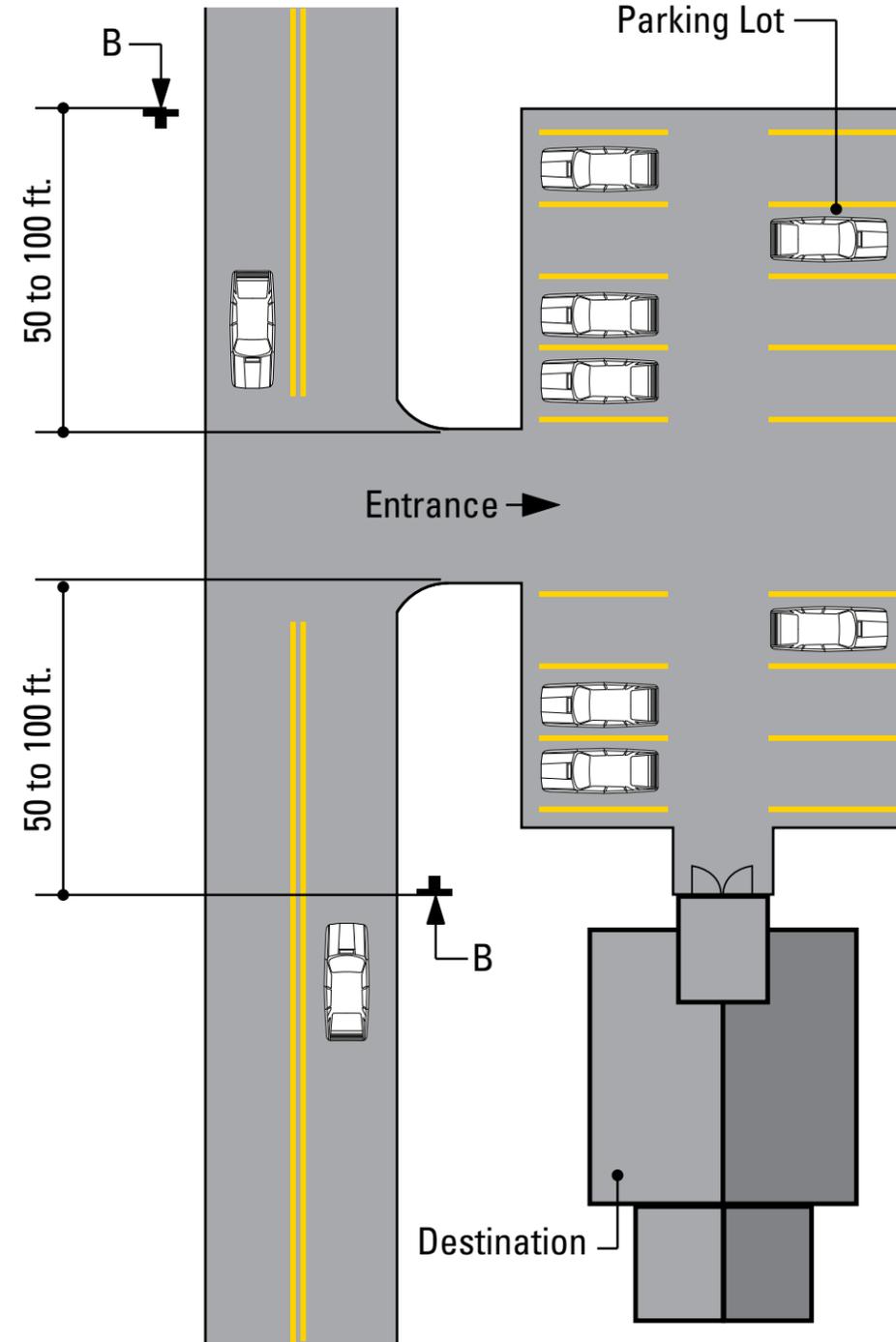


Figure 2

Sign B: DEST.1 or PARK.1



SPECIFICATIONS

FIGURE 1 - Vehicular Directional - Sign Placement Guideline
FIGURE 2 - Destination Arrival or Parking Identification - Sign Placement Guideline

Unless approved by the Client or its designated agent, all signs shall be installed to the right of the direction of traffic and where sufficient space is available.

(a) Signs shall be located to take advantage of natural terrain, to minimize impacts on scenic environment and to avoid visual conflicts with other signs, trees and lampposts within the Borough right-of-way.

(b) Signs shall be located so as not to interfere with, obstruct or divert driver's attention from any other Official Traffic Control Device. Other Official Traffic Control Devices placed at intersection approaches, subsequent to the placement of a Wayfinding Sign, shall have precedence as to location and may require the relocation of the Wayfinding Sign. In the locations where Official Traffic Control Devices are integrated into the Wayfinding Signage System, the Official Traffic Control Devices shall take precedence with regard to order, space and location, over other information.

(c) Wayfinding Signs shall be positioned in such a manner that does not restrict driver's attention or view when making turns or driving through an intersection.

(d) There shall be a goal of one sign per block, although two are permissible, where necessary.

The following pages illustrate installation guidelines for the location and spacing of the various sign types. Figures 1 through 6 represent the guidelines for the location of the various sign types, while Figure 7 illustrates the lateral clearance guidelines.

NOTES

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REVISIONS

Sign Placement Guidelines

SHEET NO.

B.1

Figure 3

Sign C: VDIR.4-6

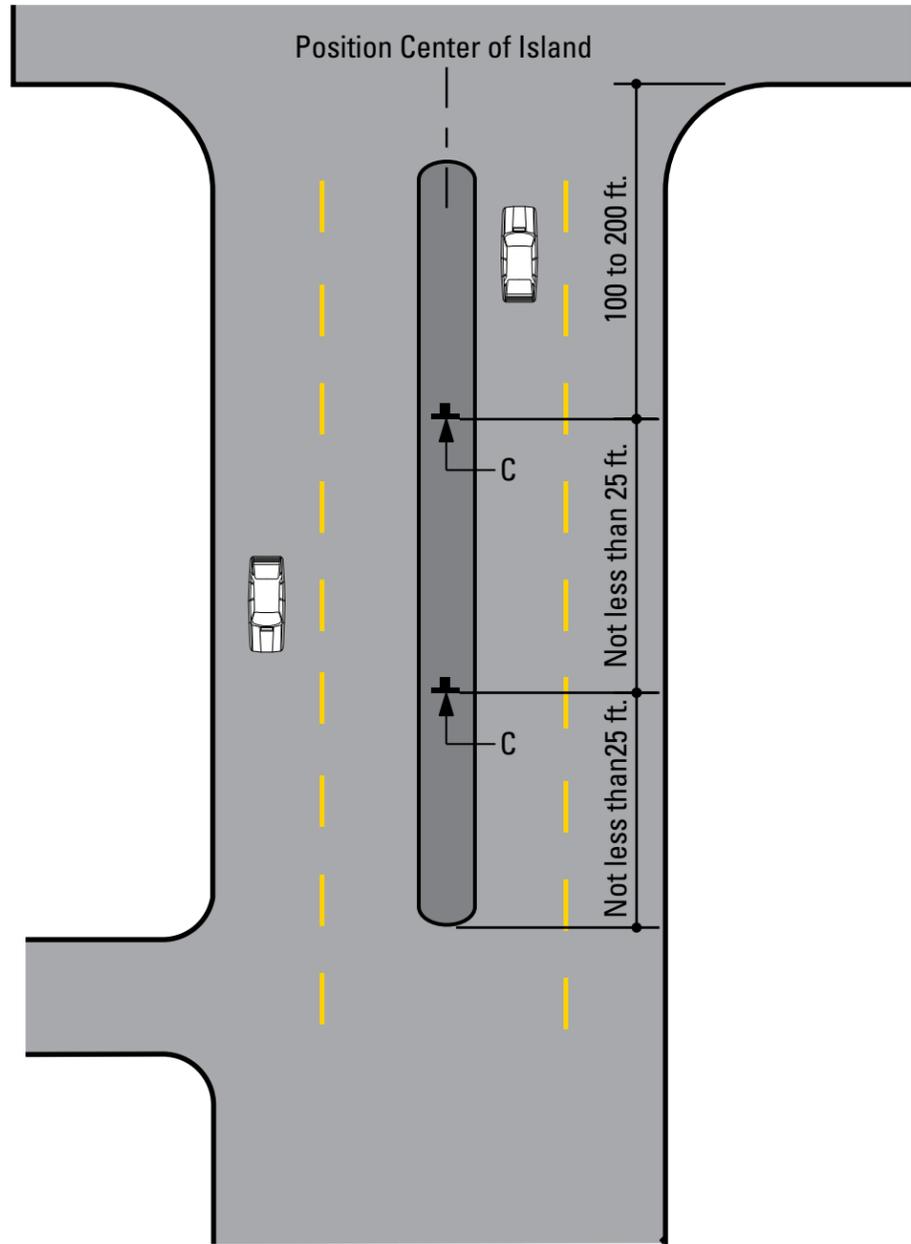
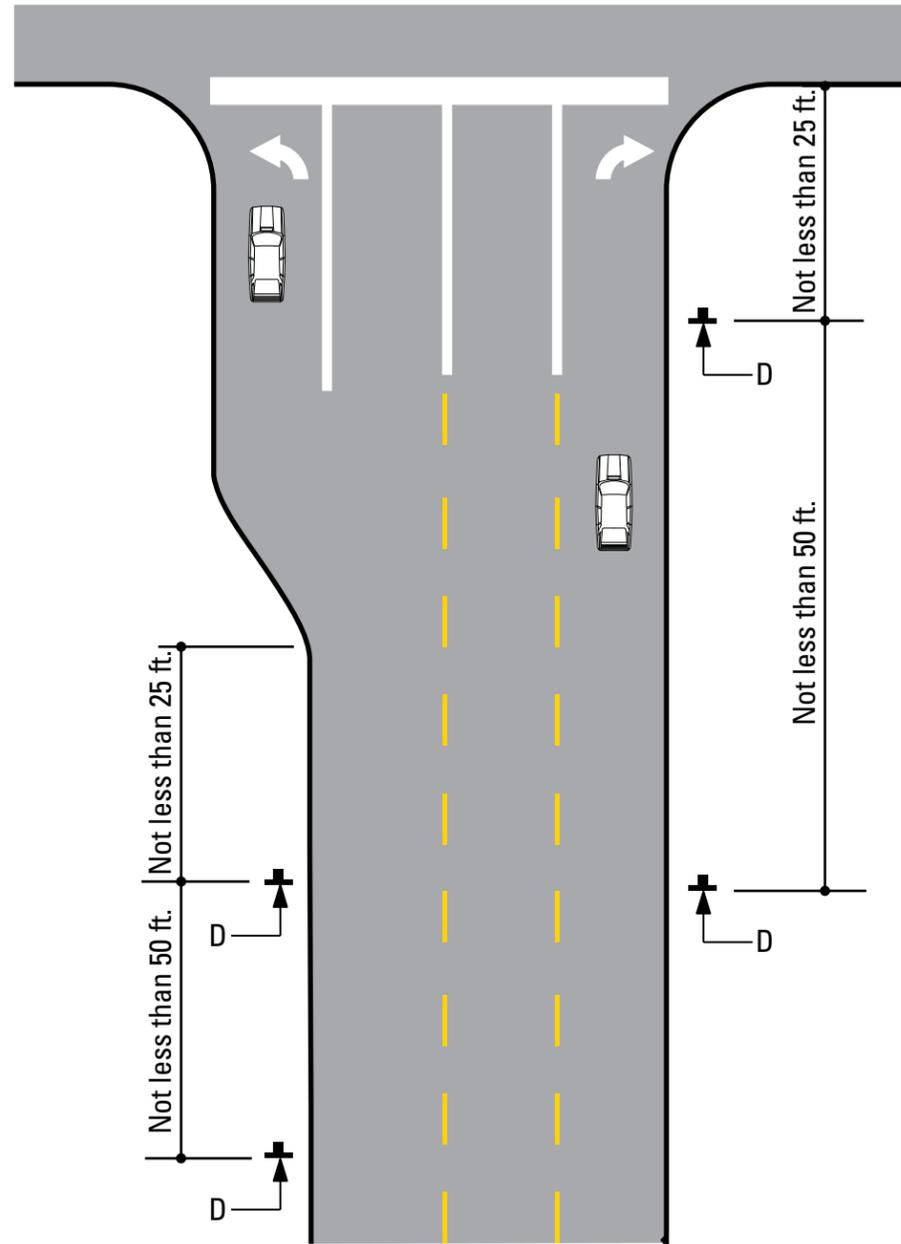


Figure 4

Sign D: VDIR.1-6



SPECIFICATIONS

FIGURE 3 - Vehicular Directional - Sign Placement Guideline
FIGURE 4 - Vehicular Directional - Sign Placement Guideline

Unless approved by the Client or its designated agent, all signs shall be installed to the right of the direction of traffic and where sufficient space is available.

(a) Signs shall be located to take advantage of natural terrain, to minimize impacts on scenic environment and to avoid visual conflicts with other signs, trees and lampposts within the Borough right-of-way.

(b) Signs shall be located so as not to interfere with, obstruct or divert driver's attention from any other Official Traffic Control Device. Other Official Traffic Control Devices placed at intersection approaches, subsequent to the placement of a Wayfinding Sign, shall have precedence as to location and may require the relocation of the Wayfinding Sign. In the locations where Official Traffic Control Devices are integrated into the Wayfinding Signage System, the Official Traffic Control Devices shall take precedence with regard to order, space and location, over other information.

(c) Wayfinding Signs shall be positioned in such a manner that does not restrict driver's attention or view when making turns or driving through an intersection.

(d) There shall be a goal of one sign per block, although two are permissible, where necessary.

The following pages illustrate installation guidelines for the location and spacing of the various sign types. Figures 1 through 6 represent the guidelines for the location of the various sign types, while Figure 7 illustrates the lateral clearance guidelines.

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REVISIONS

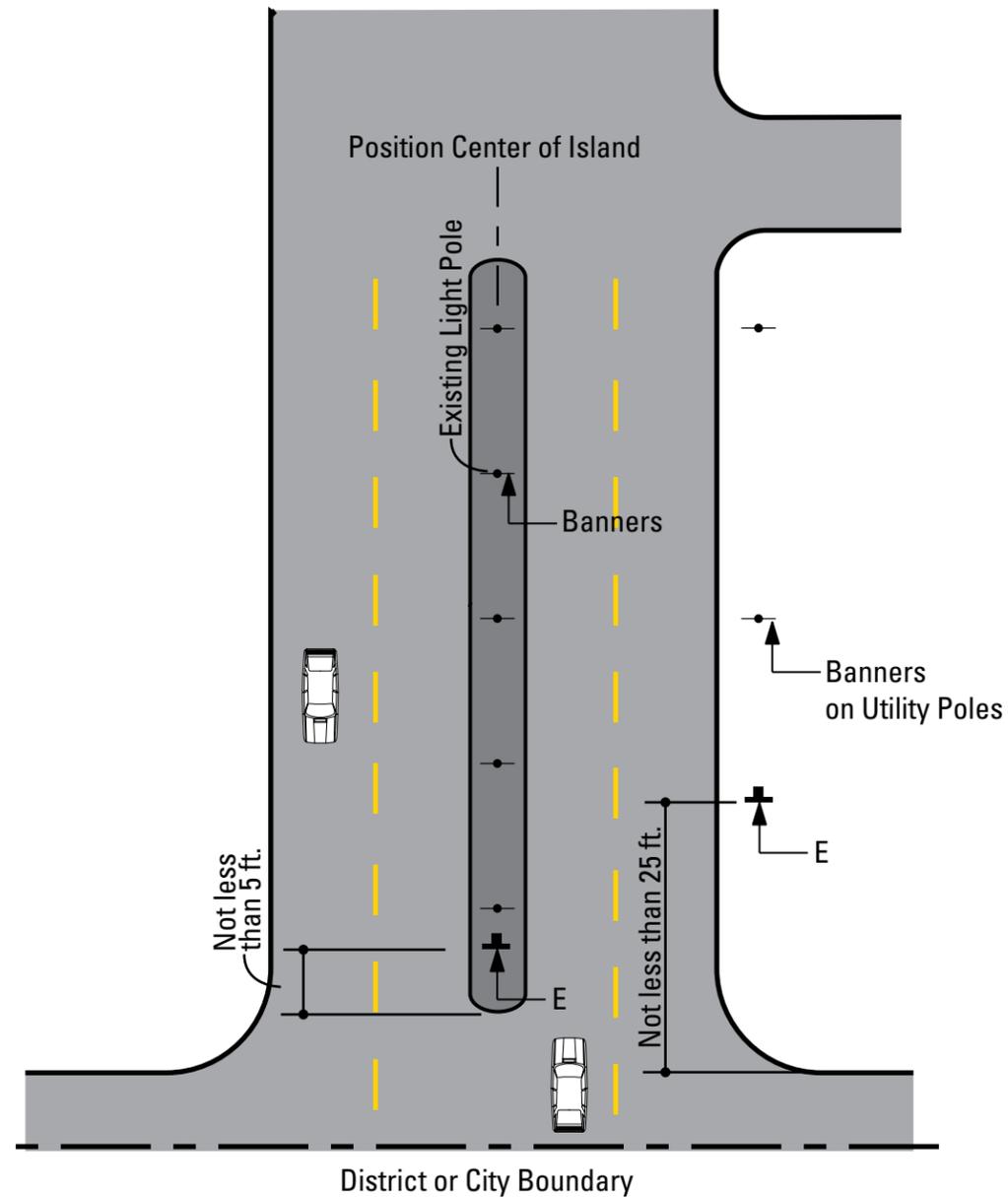
Sign Placement Guidelines

SHEET NO.

B.2

Figure 5

Sign E: GATEWAY or DISTRICT



SPECIFICATIONS

FIGURE 5 - Gateway/District Arrival-Vehicular - Sign Placement Guideline

Unless approved by the Client or its designated agent, all signs shall be installed to the right of the direction of traffic and where sufficient space is available.

(a) Signs shall be located to take advantage of natural terrain, to minimize impacts on scenic environment and to avoid visual conflicts with other signs, trees and lampposts within the Borough right-of-way.

(b) Signs shall be located so as not to interfere with, obstruct or divert driver's attention from any other Official Traffic Control Device. Other Official Traffic Control Devices placed at intersection approaches, subsequent to the placement of a Wayfinding Sign, shall have precedence as to location and may require the relocation of the Wayfinding Sign. In the locations where Official Traffic Control Devices are integrated into the Wayfinding Signage System, the Official Traffic Control Devices shall take precedence with regard to order, space and location, over other information.

(c) Wayfinding Signs shall be positioned in such a manner that does not restrict driver's attention or view when making turns or driving through an intersection.

(d) There shall be a goal of one sign per block, although two are permissible, where necessary.

The following pages illustrate installation guidelines for the location and spacing of the various sign types. Figures 1 through 6 represent the guidelines for the location of the various sign types, while Figure 7 illustrates the lateral clearance guidelines.

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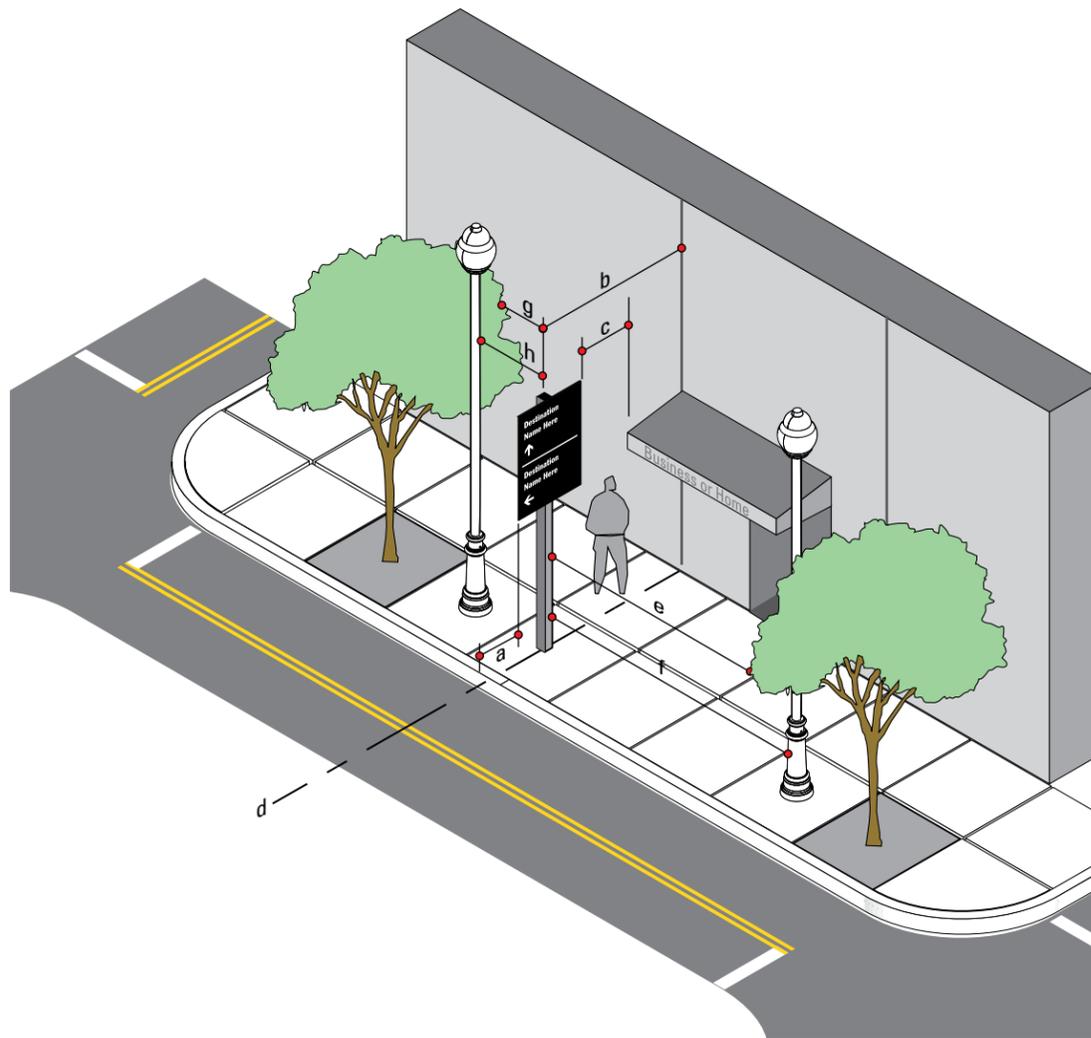
REVISIONS

Sign Placement Guidelines

SHEET NO.

B.3

Figure 6
Not to Scale



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

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

SPECIFICATIONS

FIGURE 6 - Lateral Clearance Guidelines

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

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

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

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

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

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

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

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

NOTES

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PROJECT NO.

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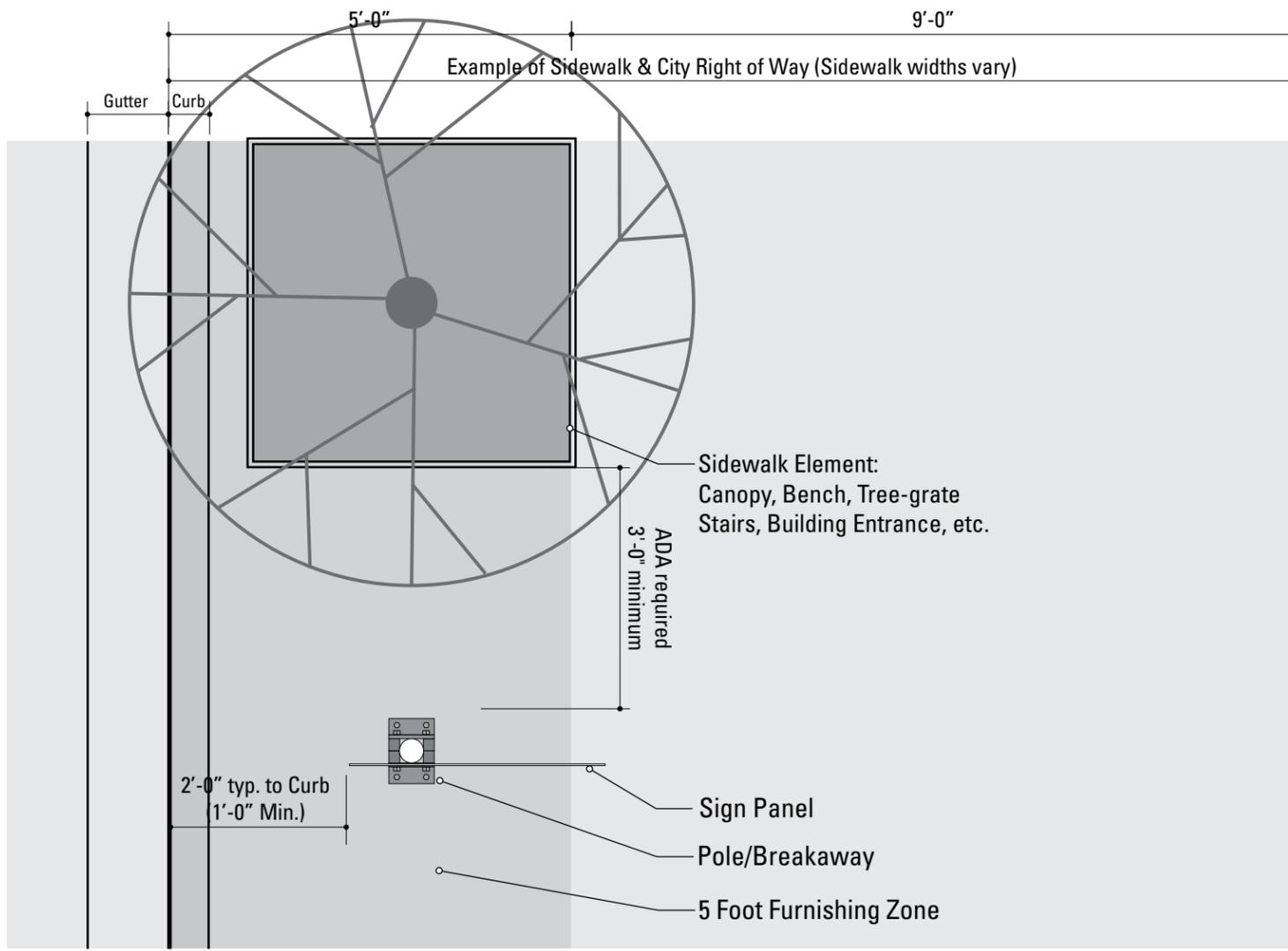
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REVISIONS

Sign Placement Guidelines

SHEET NO.

B.4



NOTE:

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

1 Reference View: Example - 5 foot Furnishing Zone / City Right of Way
SCALE: Not To Scale

Note: Top View of VDIR.1-3 shown as example.

Figure 7

Not to Scale

SPECIFICATIONS

FIGURE 7 - Lateral Clearance Guidelines

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

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

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

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

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

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

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

NOTES

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		PROJECT NO.	
SUBCONSULTANT		SHEET TITLE	
DATE	06/30/16	DRAWN BY:	LH
<small>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</small>		Sign Placement Guidelines	
		SHEET NO.	
		B.5	

c | Menu of Sign Types



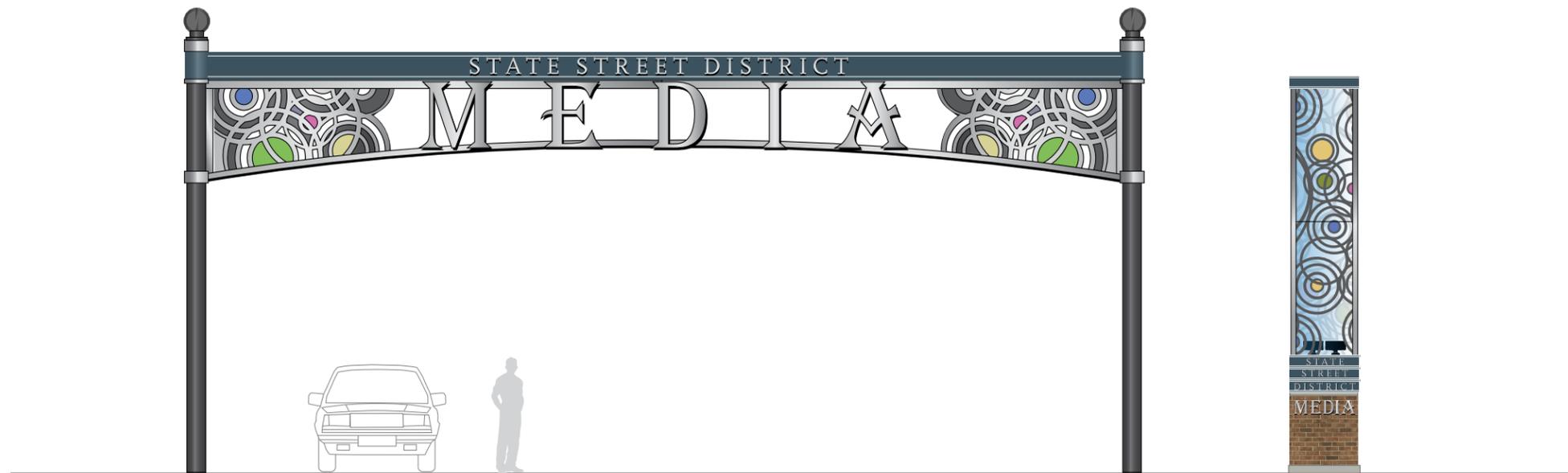
GATE.1
Primary Borough
Gateway

GATE.2
Borough Gateway
Post & Panel

GATE.3
West End
Borough Gateway



DIST.1a
District Gateway



DIST.1
District Gateway

DIST.2
District Gateway
Pylon

SPECIFICATIONS

MENU OF SIGN TYPES

Gateway Identification

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

ENVIRONMENTS & EXPERIENCES

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CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE

Gateway Signage Overview

SHEET NO.

C.1

SPECIFICATIONS

MENU OF SIGN TYPES
Vehicular Directional



VDIR.1
Vehicular Directional
4" Copy

VDIR.2
Vehicular Directional
4" Copy

VDIR.3
Vehicular Directional
4" Copy

VDIR.7
Vehicular Directional
5" Copy

VDIR.8
Vehicular Directional
5" Copy

RES.1
Residential
Directional
4" Copy



VDIR.4
Vehicular Directional
6" Copy

VDIR.5
Vehicular Directional
6" Copy

VDIR.6
Vehicular Directional
6" Copy

NOTES:

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
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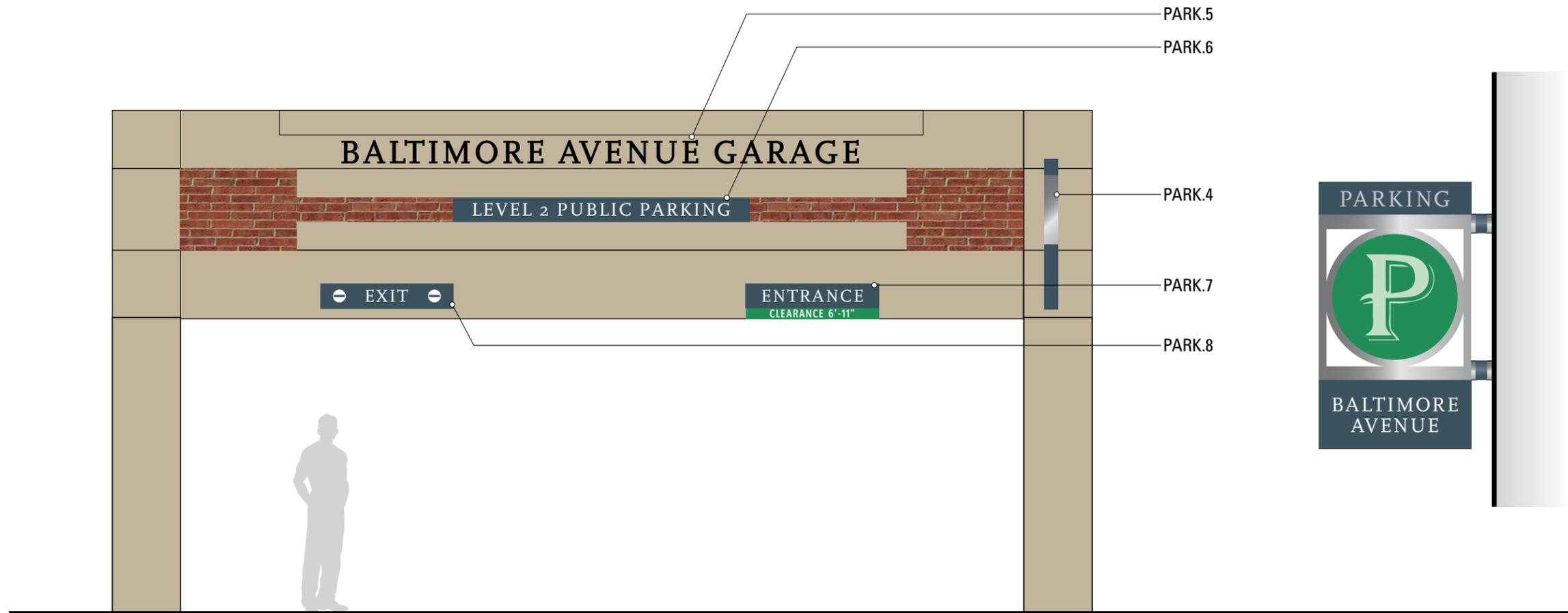
PROJECT NO.

SHEET TITLE

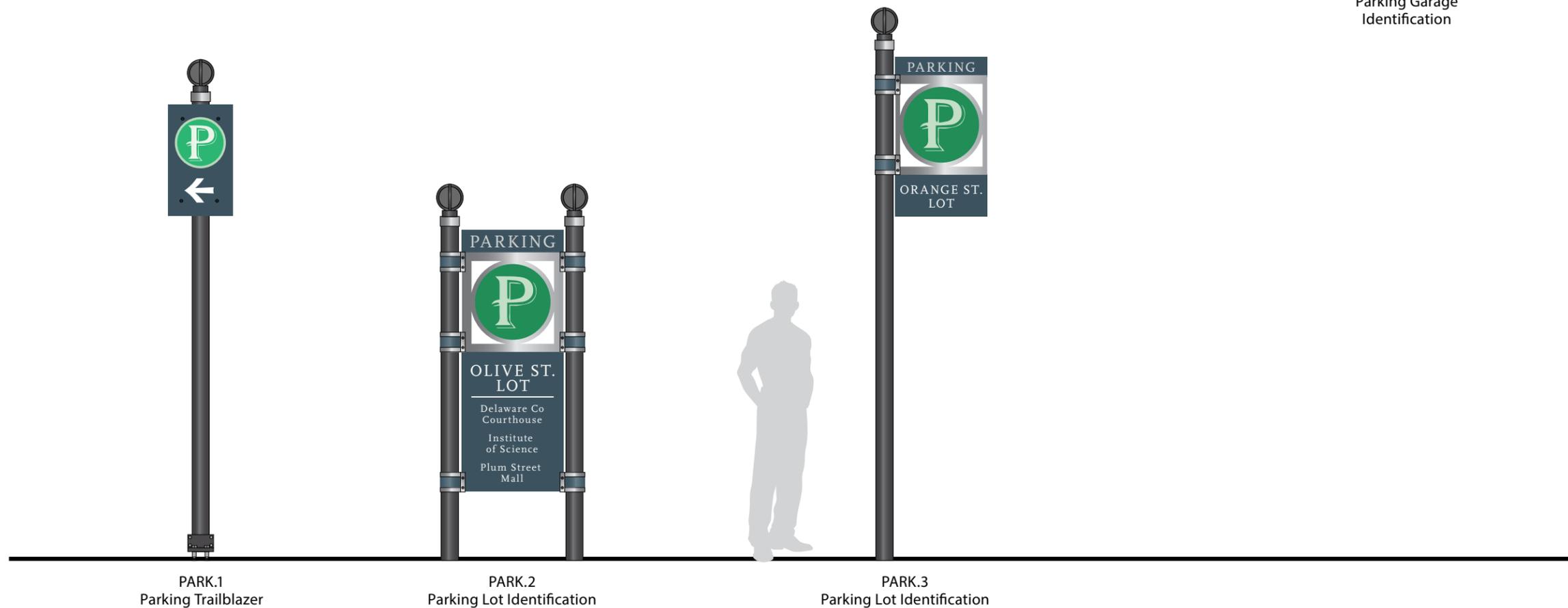
Vehicular Signage Overview

SHEET NO.

C.2



PARK.4
Parking Garage
Identification



PARK.1
Parking Trailblazer

PARK.2
Parking Lot Identification

PARK.3
Parking Lot Identification

SPECIFICATIONS

MENU OF SIGN TYPES

Parking

NOTES:

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

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Media Borough, PA
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PROJECT NO.

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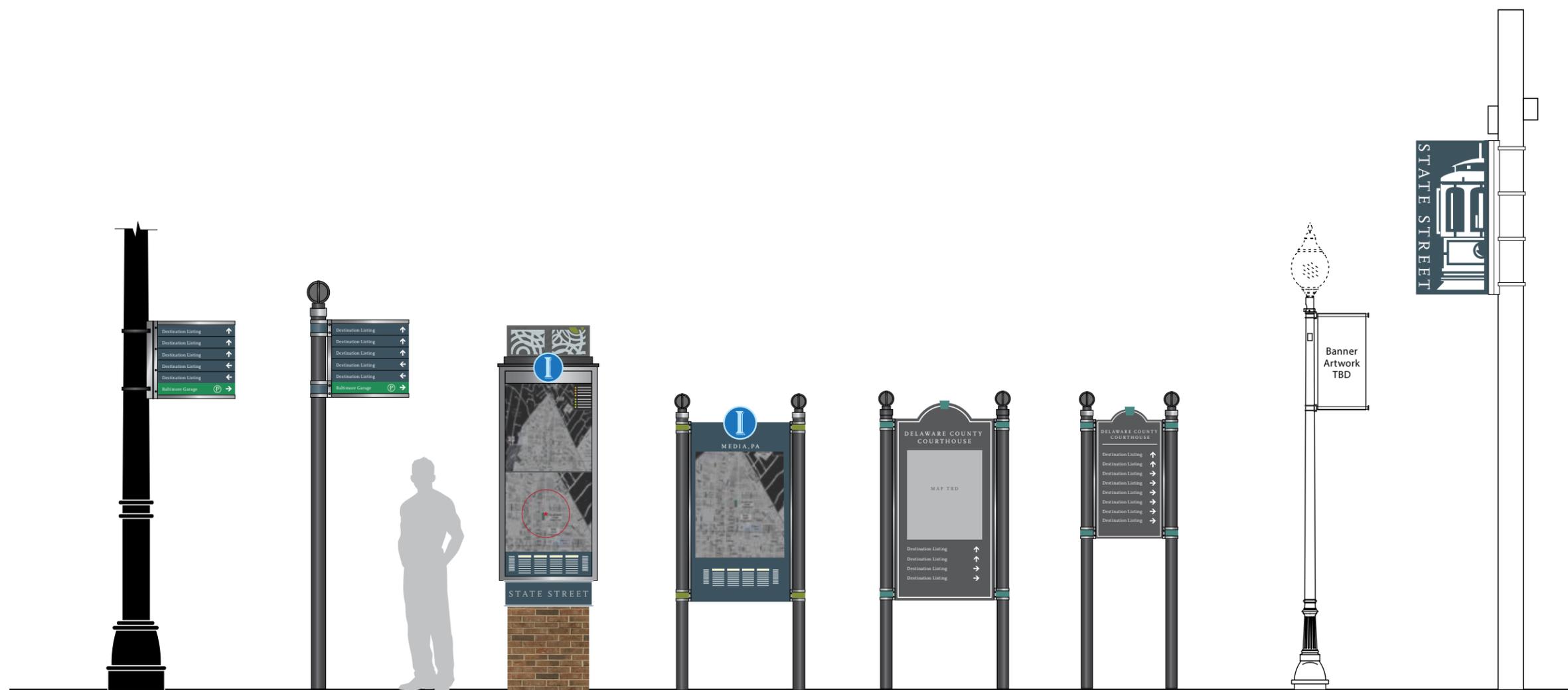
**Parking Signage
Overview**

SHEET NO.

SPECIFICATIONS

MENU OF SIGN TYPES

Pedestrian



PDIR.1
Pedestrian
Directional

PDIR.2
Pedestrian
Directional

KIOSK.1
Pedestrian Kiosk

KIOSK.2
Pedestrian Kiosk

COURT.1
Courthouse Kiosk

COURT.2
Courthouse
Directional

BANNER.1
Fabric Banner

BANNER.1
Permanent Banner

NOTES:

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

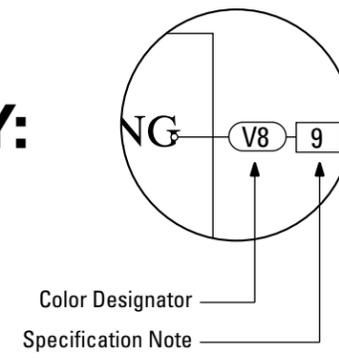
SHEET TITLE

Pedestrian Signage Overview

SHEET NO.

C.4

KEY:

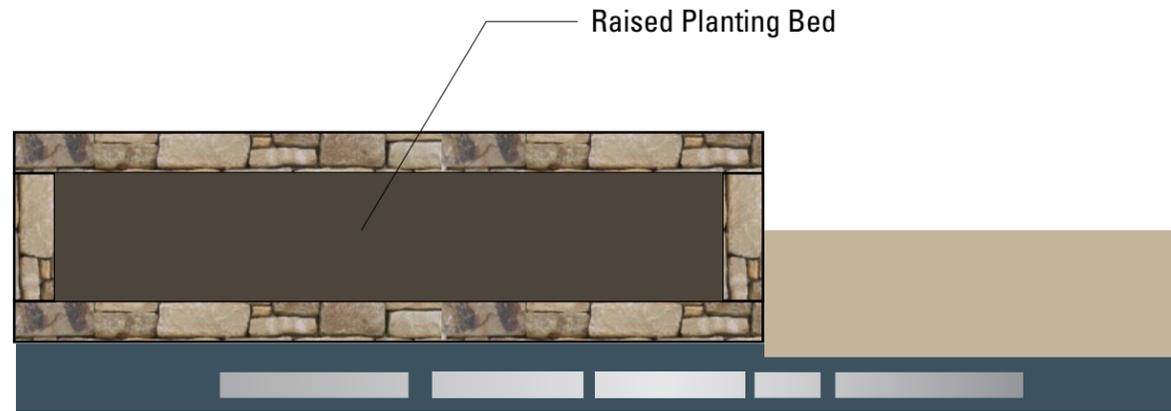


The Color Designator Chart is found in the Graphic Standards section.

The Specification Notation is found on the same page as the drawings.

D

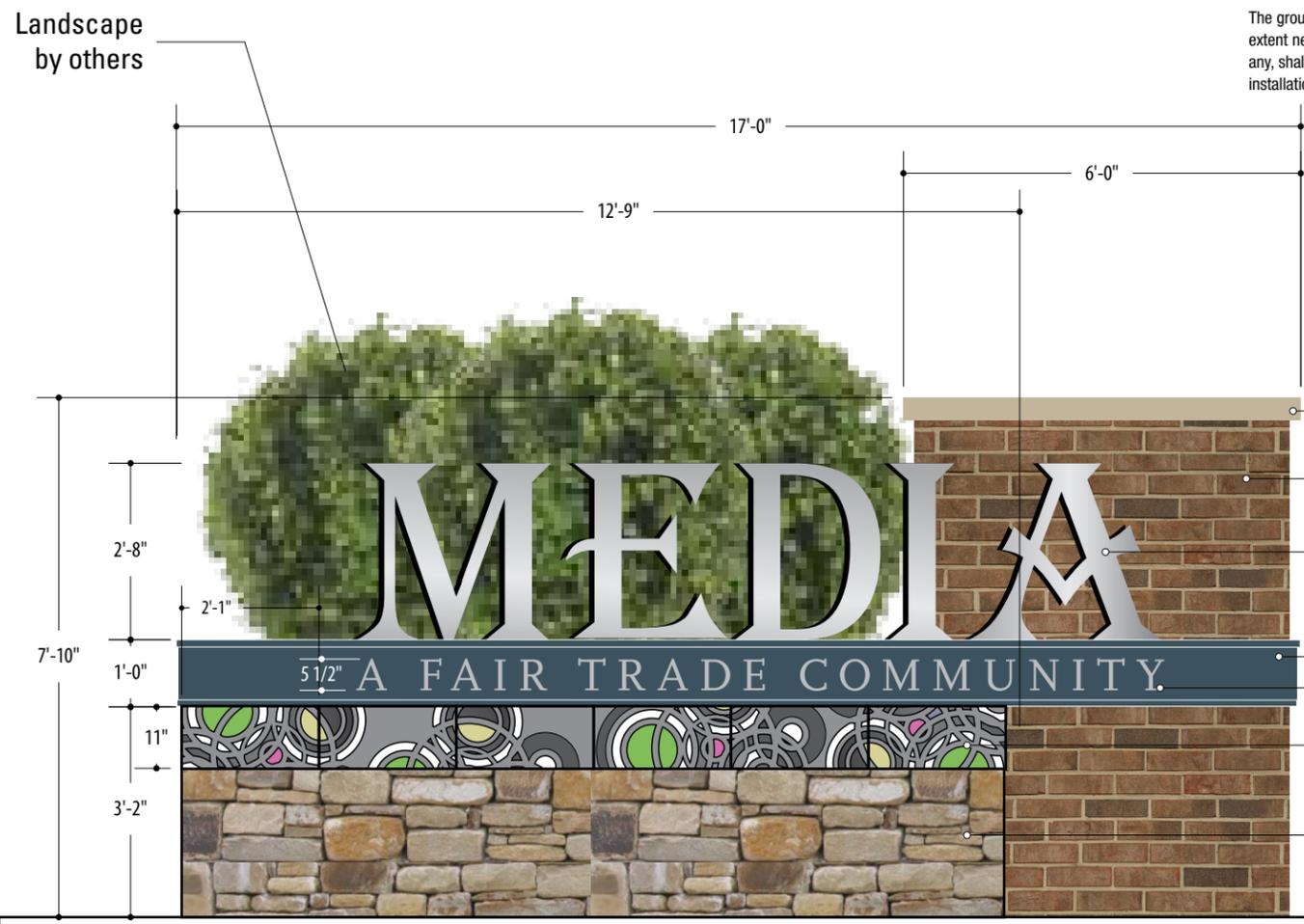
| Design Intent Drawings



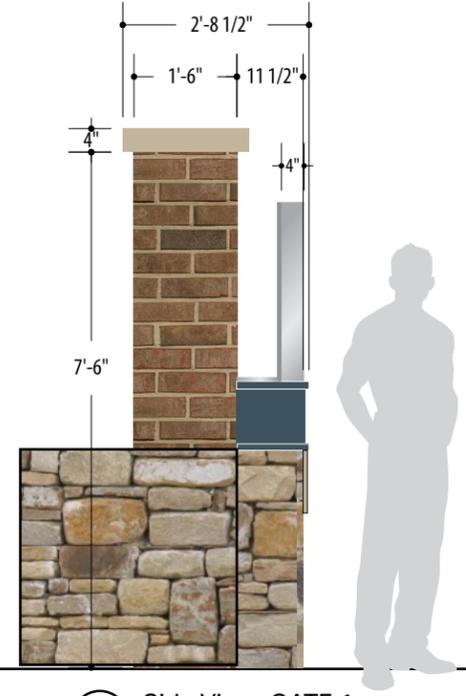
1 Top View: GATE.1
SCALE: 3/8" = 1'-0"

NOTE: Lighting of sign types shall be of the appropriate level - to maintain a safe/legible and comfortable viewing distance. Field testing of light fixtures is required - to verify placement/quantity and light luminosity. Lighting shall be uniform without glare and hotspots. Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky. Power Supply is to be provided by the Borough of Media within 6 feet of Sign Installation.

The ground-mounted light fixtures proposed to illuminate the gateway signs shall be adjustable and, to the extent needed, shielded to prevent any misdirected light. The final illumination levels and degree of shielding, if any, shall be subject to the review and approval of Media Borough planning and engineering staff following the installation of the lights.



2 Front View: GATE.1
SCALE: 3/8" = 1'-0"



3 Side View: GATE.1
SCALE: 3/8" = 1'-0"

SPECIFICATIONS	SIGN TYPE: GATE.1	FUNCTION: Borough Gateway
<p>19. BRICK BASE MATERIAL: Partition cinderblock core and brick facade to match streetscape plan, or chosen by client. BRICK STYLE: Modular or Standard brick BRICK PATTERN: Running brick bond pattern FABRICATION PROCESS: Brick with grouting, technique to match streetscape plan, or provided by client. COLOR: Match streetscape plan, or specs provided by client</p> <p>20. STONE BASE Material: Stone Veneer MANUFACTURER: Quality Stone or Approved equal INSTALL: Mortar/Grout COLOR: To Match Stone STYLE: 1/3 Cobblesand, 1/3 Regal Ashlar, and 1/3 Ohio drystack Mounting: per manufacturers specifications</p> <p>21. CUSTOM ART TILE MATERIAL: Glazed, Handmade Ceramic MANUFACTURER: Local Artist PRODUCT: Custom tile sheets in sizes specified SIZE AND SHAPE: As Noted THICKNESS: 1/2" COLOR: Custom as noted Artwork to be provided ADHESIVE: As required GROUT: Epoxy grout or silicone sealant; color to match Dark Grey</p> <p>22. ALUMINUM LETTERS MATERIAL: 4" thk Reverse channel individual letters. FABRICATION PROCESS: Router Cut/Fabricated Solid Front, Back, Sides EDGES: Smooth SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish. FASTENER: Mechanically fasten to sign base cap.</p>	<p>23. BASE CAP MATERIAL: 1/4" Aluminum sheet + 1" square tube FABRICATION PROCESS: Router cut, Fabricated EDGES: Smooth SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish. FASTENER: Mech. Fasten to Base LETTERS: 3/8" thk Aluminum. Pin-mount flush to cabinet surface</p> <p>24. CONCRETE CAP MATERIAL: Precast concrete cap. FABRICATION PROCESS: Preformed custom size concrete cap CONCRETE CAP FASTENER: Mortar.</p> <p>Lighting : PHILIPS LED LYTEPRO Flood CONSTRUCTION: Die-cast aluminum body, SS screws. OPTICS: Wide, Spot and Cutoff distributions available. ELECTRICAL: Metal Halide and High Pressure Sodium available. MOUNTING: 1/2" arm with serrated teeth lock arm mount unit into postion. Can be angled for direct lighting. FINISH: Bronze polyester powder coat. LISTINGS: UL/cUL 1598 listed, suitable for wet conditions. WARRANTY: 1 Year for mechanical, finish and electrical. QTY: Min. 2 per location as required after Field Testing Contact Philips lighting consultant for electrical and optic solutions for each location. Do NOT spot light any LED panel applications.</p> <p>Vaughn Van Gilson Philips Lightolier 856-488-5566 Vaughn.Gilson@philips.com www.hadco.com</p>	

NOTES

- Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
- Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
- All exposed edges painted to match adjacent face.
- Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

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120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com		PROJECT NO.
SUBCONSULTANT		SHEET TITLE
DATE	06/30/16	Sign Type GATE.1 Borough Gateway
DRAWN BY:	LH	
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		D.1

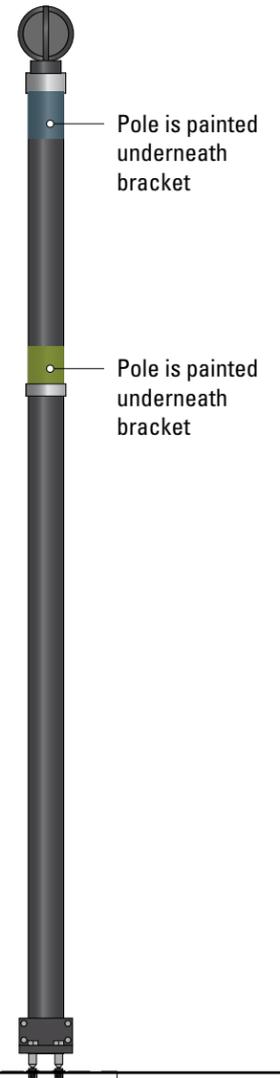
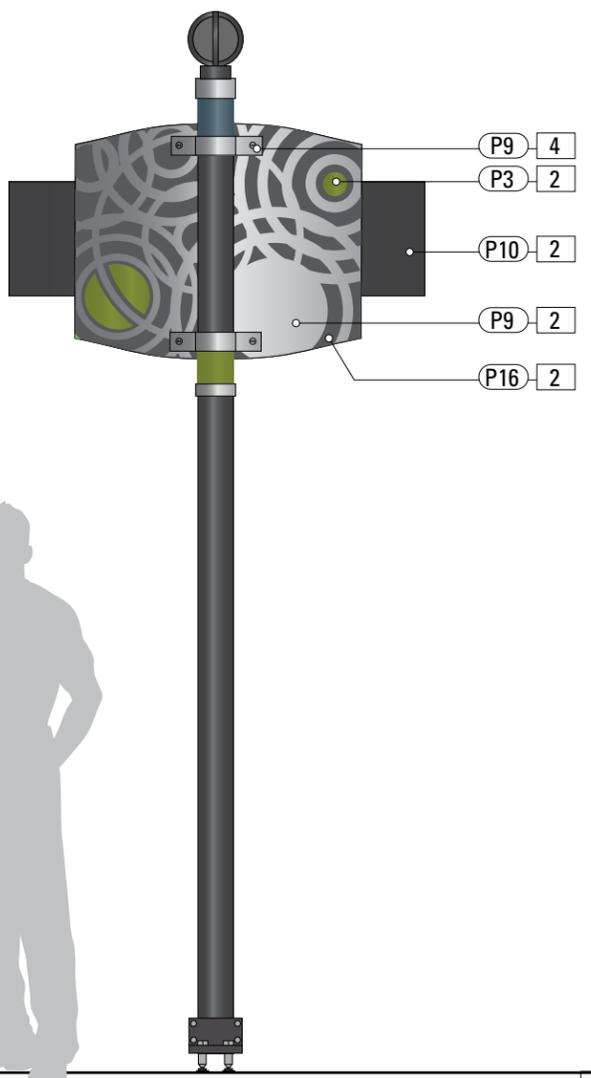
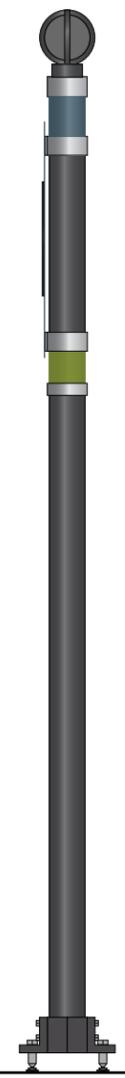
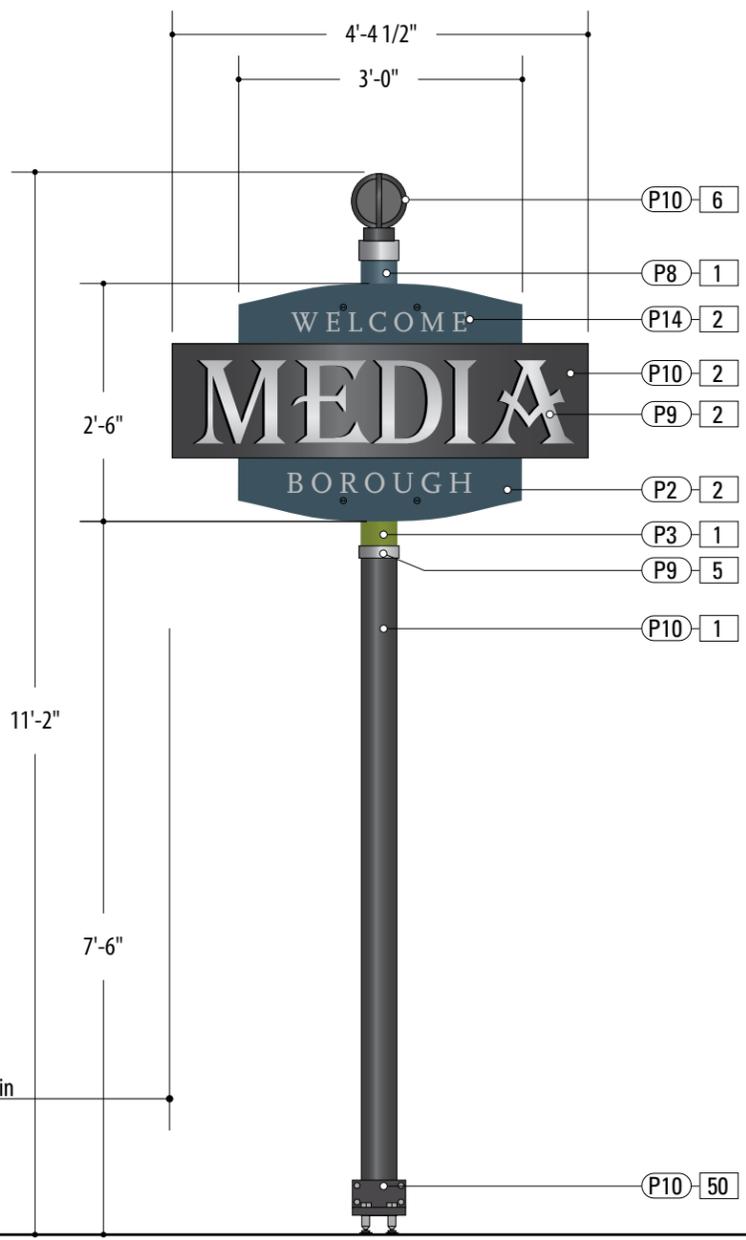
- 1. 4.5" OD POLE**
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - PAINT**
 MATERIAL: 1/8" thick Aluminum sheet
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to post with custom bracket, tamper-resistant hardware.
- 4. BRACKET**
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 5. COLLAR**
 MATERIAL: Cast Aluminum
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
 FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

NOTES

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

ENVIRONMENTS & EXPERIENCES 120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com	CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System PROJECT NO.
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SUBCONSULTANT	DATE	06/30/16	DRAWN BY:	LH
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.	REVISIONS			
SHEET TITLE				
Sign Type GATE.2 Borough Gateway				
SHEET NO.				
D.2				



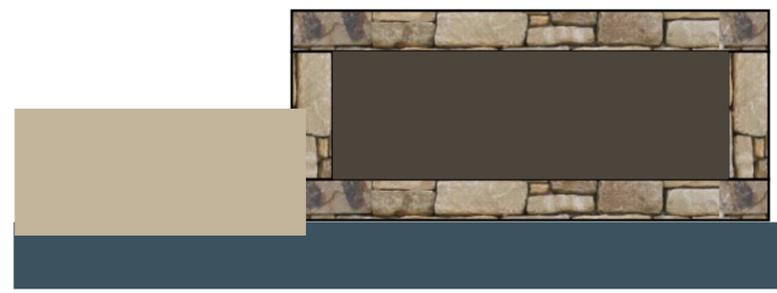
1 Front View: GATE.2
SCALE: 1/2" = 1'-0"

- 19. BRICK BASE**
 MATERIAL: Partition cinderblock core and brick facade to match streetscape plan, or chosen by client.
 BRICK STYLE: Modular or Standard brick
 BRICK PATTERN: Running brick bond pattern
 FABRICATION PROCESS: Brick with grouting, technique to match streetscape plan, or provided by client.
 COLOR: Match streetscape plan, or specs provided by client
 - 20. STONE BASE**
 Material: Stone Veneer
 MANUFACTURER: Quality Stone or Approved equal
 INSTALL: Mortar/Grout
 COLOR: To Match Stone
 STYLE: 1/3 Cobble sand, 1/3 Regal Ashlar, and 1/3 Ohio drystack
 Mounting: per manufacturers specifications
 - 21. CUSTOM ART TILE**
 MATERIAL: Glazed, Handmade Ceramic
 MANUFACTURER: Local Artist
 PRODUCT: Custom tile sheets in sizes specified
 SIZE AND SHAPE: As Noted
 THICKNESS: 1/2"
 COLOR: Custom as noted Artwork to be provided
 ADHESIVE: As required
 GROUT: Epoxy grout or silicone sealant; color to match Dark Grey
 - 22. CUT ALUMINUM LETTERS**
 MATERIAL: 1" thk individual letters.
 FINISH: Brushed
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fasten to brick pylon.
 - 23. BASE CAP**
 MATERIAL: 1/4" Aluminum sheet + 1" square tube
 FABRICATION PROCESS: Router cut, Fabricated
 - 24. CONCRETE CAP**
 MATERIAL: Precast concrete cap.
 FABRICATION PROCESS: Preformed custom size concrete cap
 CONCRETE CAP FASTENER: Mortar.
 - 37. LOGO PLAQUE**
 MATERIAL: 1/2" thick Aluminum
 FABRICATION PROCESS: Router Cut/Etched and Filled Graphics
 EDGES: Smooth
 COLOR: Black
 SURFACE PROCESS: Brushed - Clear Coat
- Lighting : PHILIPS LED LYTEPRO Flood**
 CONSTRUCTION: Die-cast aluminum body, SS screws.
 OPTICS: Wide, Spot and Cutoff distributions available.
 ELECTRICAL: Metal Halide and High Pressure Sodium available.
 MOUNTING: 1/2" arm with serrated teeth lock arm mount unit into postion. Can be angled for direct lighting.
 FINISH: Bronze polyester powder coat.
 LISTINGS: UL/cUL 1598 listed, suitable for wet conditions.
 WARRANTY: 1 Year for mechanical, finish and electrical.
 QTY: Min. 2 per location as required after Field Testing
 Contact Philips lighting consultant for electrical and optic solutions for each location. **Do NOT spot light any LED panel applications.**
- Vaughn Van Gilson**
 Philips Lightolier
 856-488-5566
 Vaughn.Gilson@philips.com
 www.hadco.com

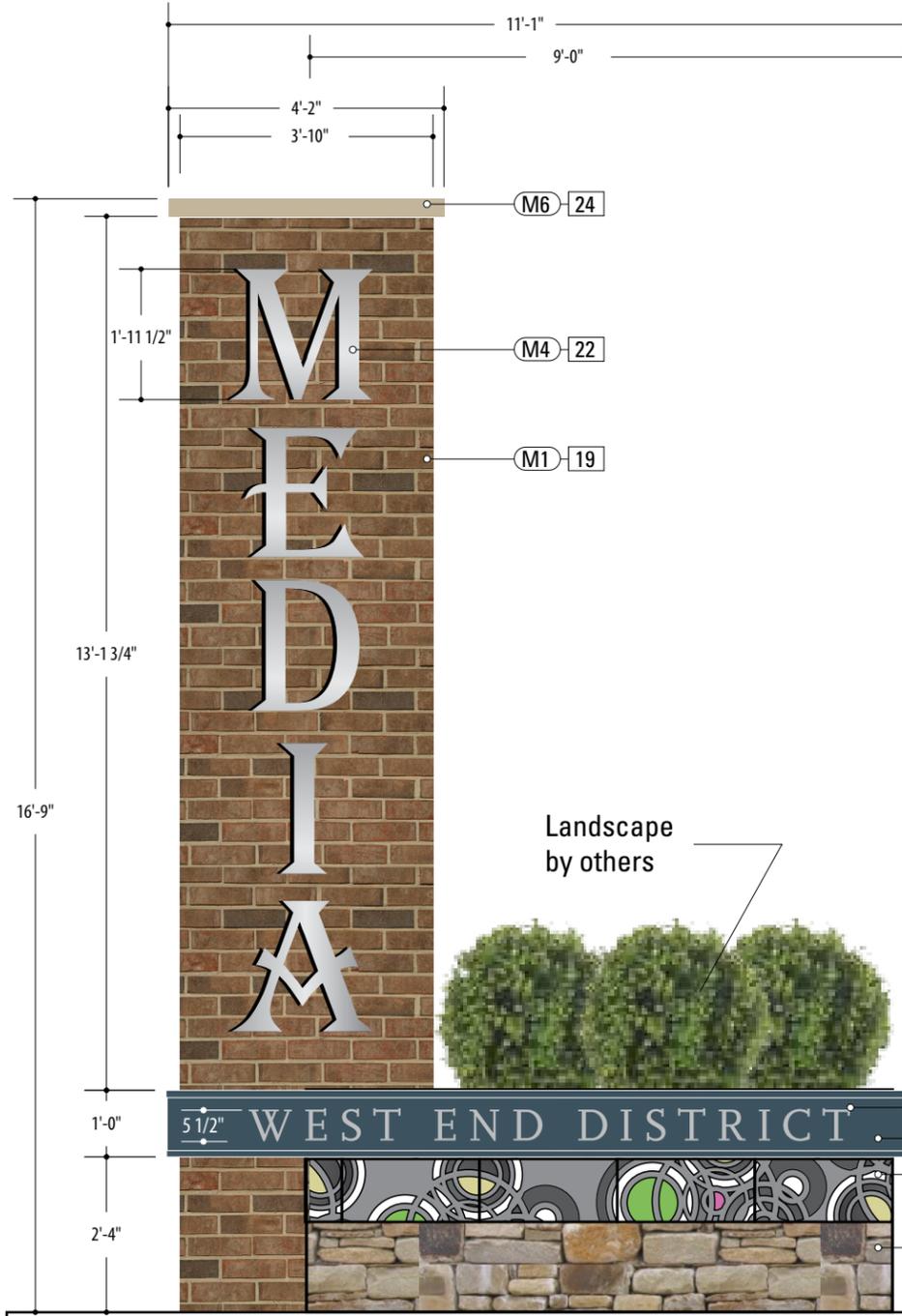
NOTES

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

ENVIRONMENTS & EXPERIENCES 		CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com		PROJECT NO.
SUBCONSULTANT		SHEET TITLE
DATE 06/30/16	DRAWN BY: LH	Sign Type GATE.3 Gateway
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		
		D.3



1 Top View: GATE.3
SCALE: 3/8" = 1'-0"



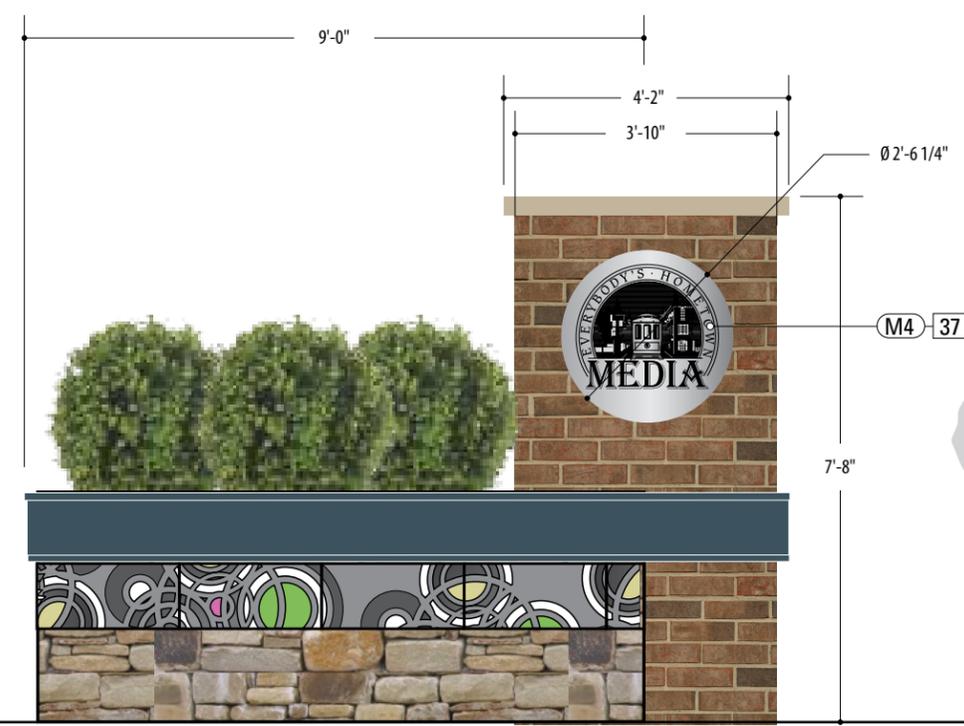
2 Front View: GATE.3
SCALE: 3/8" = 1'-0"

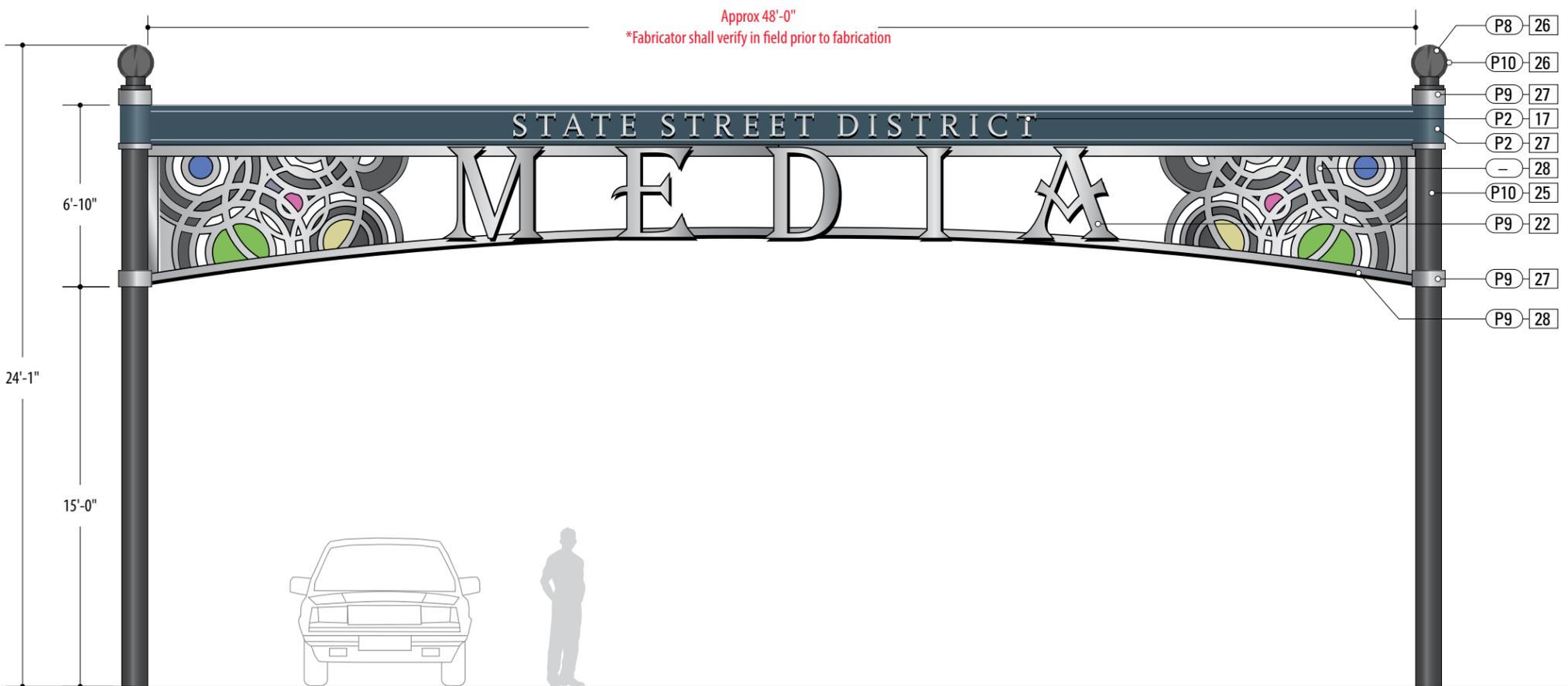


Planting Bed

NOTE: Lighting of sign types shall be of the appropriate level - to maintain a safe/legible and comfortable viewing distance. Field testing of light fixtures is required - to verify placement/quantity and light luminosity. Lighting shall be uniform without glare and hotspots. Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky. Power Supply is to be provided by the Borough of Media within 6 feet of Sign Installation.

The ground-mounted light fixtures proposed to illuminate the gateway signs shall be adjustable and, to the extent needed, shielded to prevent any misdirected light. The final illumination levels and degree of shielding, if any, shall be subject to the review and approval of Media Borough planning and engineering staff following the installation of the lights.



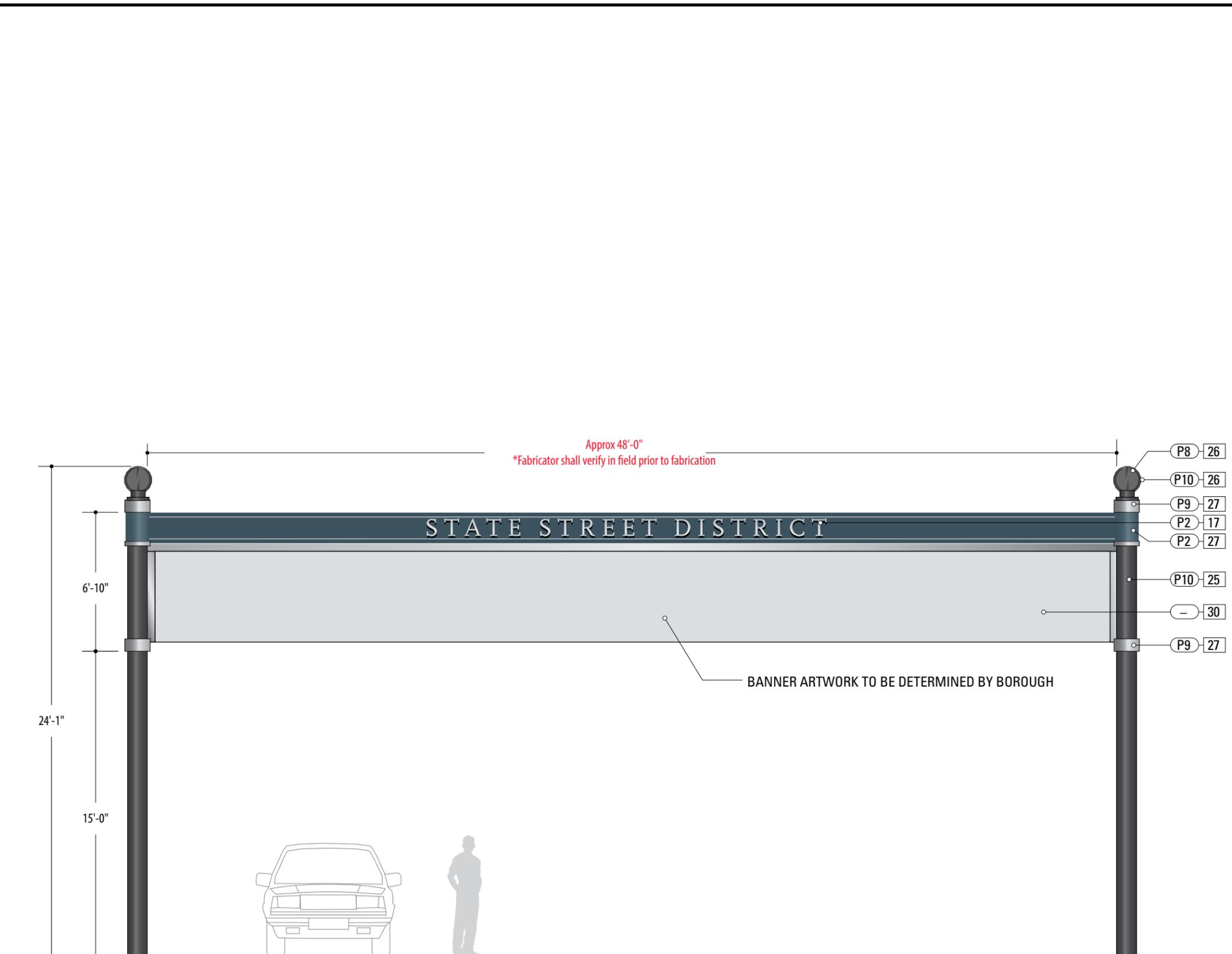


1 Front View: DIST.1
SCALE: 3/16" = 1'-0"

- 17. LETTERS**
Size: 3/8" Thk.
MATERIAL: Aluminum
FABRICATION PROCESS: Router Cut Fabricated Edges
EDGES: Smooth
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fasten to sign frame.
- 22. CUT ALUMINUM LETTERS**
MATERIAL: 2" thk Reverse channel individual letters.
FABRICATION PROCESS: Router Cut
EDGES: Smooth
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fasten to sign base cap.
- 25. 12.75" OD POLE**
MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 12 (12.75" OD x .375" wall) As required by PA Structural Engineer
FABRICATION PROCESS: Extruded
EDGES: Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FOOTER: As required by PA Structural Engineer
- 26. 12" FINIAL**
MATERIAL: Custom cast Aluminum Finial.
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 27. 12" COLLAR/BRACKET**
MATERIAL: Custom Aluminum Bracket.
FABRICATION PROCESS: Extruded
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 28. FABRICATED SIGN FRAME / PANEL**
MATERIAL: 1/4" thk. alum. panel, 1" Aluminum bar stock
FABRICATION PROCESS: Router Cut, Fabricated
EDGES: Square, Smooth
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastens to post with collar / bracket.

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

ENVIRONMENTS & EXPERIENCES 		CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System PROJECT NO.
120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com		SHEET TITLE Sign Type DIST.1 District Gateway SHEET NO.
SUBCONSULTANT DATE 06/30/16 DRAWN BY: LH <small>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</small>		REVISIONS
D.4		



1 Front View: DIST.1a
SCALE: 3/16" = 1'-0"

17. LETTERS
 Size: 3/8" Thk.
 MATERIAL: Aluminum
 FABRICATION PROCESS: Router Cut Fabricated Edges
 EDGES: Smooth
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: mechanically fasten to sign frame.

25. 12.75" OD POLE
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 12 (12.75" OD x .375" wall) As required by PA Structural Engineer
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: As required by PA Structural Engineer

26. 12" FINIAL
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

27 12" COLLAR/BRACKET
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

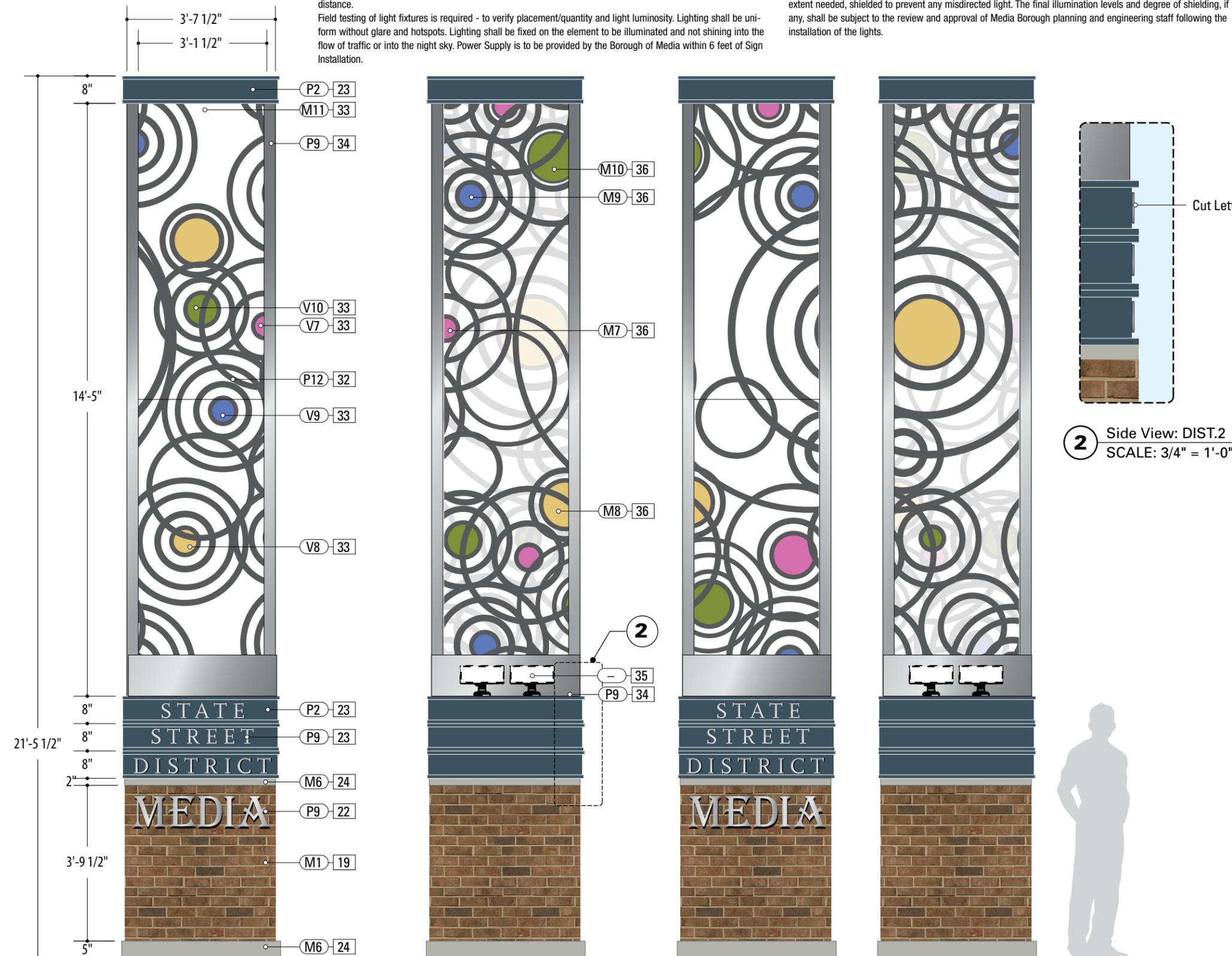
30. FABRIC BANNER
 MATERIAL: Digital Print Banner: 18 oz. opaque white vinyl
 BANNER ARTWORK: To be provided by Client.

- NOTES**
- Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
 - Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
 - All exposed edges painted to match adjacent face.
 - Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

ENVIRONMENTS & EXPERIENCES merJe 120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com		CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
SUBCONSULTANT		PROJECT NO.
DATE: 06/30/16	DRAWN BY: LH	SHEET TITLE Sign Type DIST.1A District Gateway
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		
REVISIONS		SHEET NO.
		D.5

NOTE: Lighting of sign types shall be of the appropriate level - to maintain a safe/legible and comfortable viewing distance.
Field testing of light fixtures is required - to verify placement/quantity and light luminosity. Lighting shall be uniform without glare and hotspots. Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky. Power Supply is to be provided by the Borough of Media within 6 feet of Sign Installation.

The ground-mounted light fixtures proposed to illuminate the gateway signs shall be adjustable and, to the extent needed, shielded to prevent any misdirected light. The final illumination levels and degree of shielding, if any, shall be subject to the review and approval of Media Borough planning and engineering staff following the installation of the lights.



SPECIFICATIONS	SIGN TYPE: DIST.2	FUNCTION: District Gateway
<p>19. BRICK BASE MATERIAL: Partition cinderblock core and brick facade to match streetscape plan, or chosen by client. BRICK STYLE: Modular or Standard brick BRICK PATTERN: Running brick bond pattern FABRICATION PROCESS: Brick with grouting, technique to match streetscape plan, or provided by client. COLOR: Match streetscape plan, or specs provided by client</p> <p>22. CUT ALUMINUM LETTERS MATERIAL: 1/2" thk individual Aluminum letters. FABRICATION PROCESS: Router Cut EDGES: Smooth SURFACE PROCESS: Brushed FASTENER: Pin Mount to Brick Base</p> <p>23. BASE / SIGN CAP MATERIAL: 1/4" Aluminum sheet + 1" square tube FABRICATION PROCESS: Router cut, Fabricated EDGES: Smooth SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish. FASTENER: Mech. Fasten to Base LETTERS: 3/8" thk Aluminum. Pin-mount flush to cabinet surface</p> <p>24. CONCRETE CAP MATERIAL: Precast concrete cap. FABRICATION PROCESS: Prefromed custom size concrete cap CONCRETE CAP FASTENER: Mortar.</p> <p>32. 1/4" DECORATIVE (circles) SIGN PANEL MATERIAL: 1/4" thick Aluminum sheet FABRICATION PROCESS: Router Cut EDGES: Smooth COLOR: custom, as noted SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish. FASTENER: Mechanically fastened to support brackets.</p>	<p>33. FROSTED ACRYLIC SHEET MATERIAL: 1/4" Acrylite Colorless Satin Ice Acrylic sheet. FABRICATION PROCESS: Router Cut EDGES: Smooth COLORS: Custom as noted GRAPHIC COLOR SHAPES PROCESS: 3M Scotchcal® #3630 with 3M approved UV/Graffiti Vinyl Overlaminat. (See Color Sheet for all color and material specifications)</p> <p>34. SUPPORT FRAME MATERIAL: 4" Aluminum Square Tube, and Aluminum Sheet FABRICATION PROCESS: Fabricated EDGES: Smooth COLORS: Custom As Noted SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.</p> <p>35. COLORBLAST LIGHTING PRODUCT: Phillips Colorblast 12, color changing LED floodlight. Qty: 2 per sign ACCESSORIES: 120-000003-03 Accessory Holder for ColorBlast 12 White, Wet & Damp 120-000025-00 Horizontal Spread Lens for ColorBlast 12 36/50° 120-000009-03 Half Top Hat For ColorBlast 12 White, Wet & Damp CONTROLS: Phillips Color Kinetics controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, as well as third-party controllers. • Universal power input range : 100 to 240 VAC Outdoor Rated damp or wet locations.</p> <p>36. ACRYLIC ROUND BACKER DISCS MATERIAL: 1/8" Acrylite FABRICATION PROCESS: Router Cut with applied Translucent vinyl or embedded color EDGES: Smooth COLORS: Custom as noted FASTENER: Mechanically fasten to back of decorative cut-out panel.</p>	

NOTES

- Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
- Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
- All exposed edges painted to match adjacent face.
- Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

ENVIRONMENTS & EXPERIENCES 		CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com		PROJECT NO.
SUBCONSULTANT		SHEET TITLE
DATE	06/30/16	Sign Type DIST.2 District Gateway
DRAWN BY:	LH	
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		SHEET NO.
		D.6

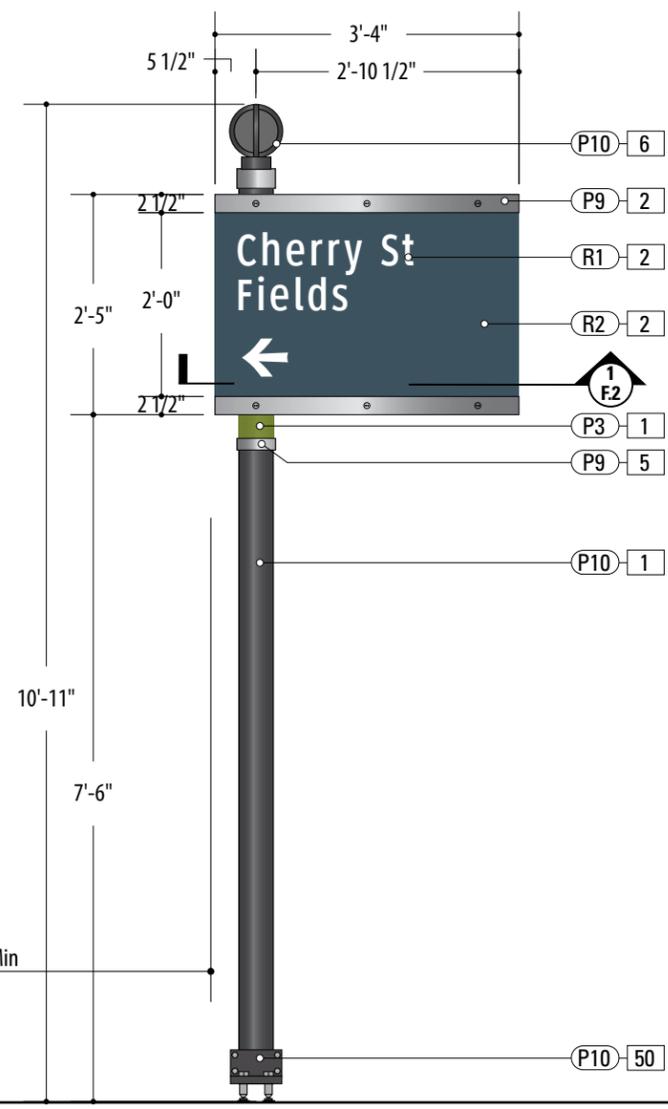
- 1. 4.5" OD POLE**
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - REFLECTIVE**
 MATERIAL: 1/8" thick Aluminum sheet
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 COLOR: custom, as noted
 GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
 FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
 EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
- 3. SUPPORT BAR**
 MATERIAL: 1/4" thk Aluminum Sheet
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Weld to custom bracket Bracket. Bracket is mechanically fastened to pole.
- 4. BRACKET**
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 5. COLLAR**
 MATERIAL: Cast Aluminum
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
 FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

NOTES

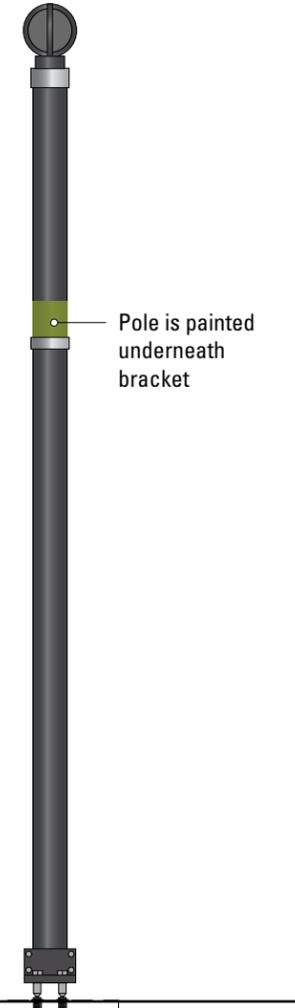
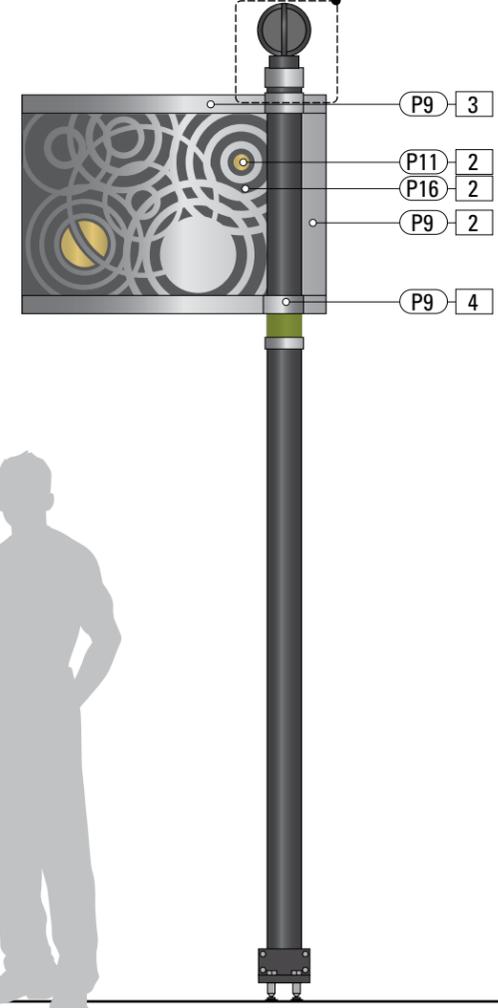
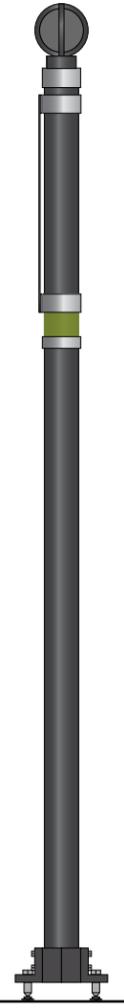
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed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

ENVIRONMENTS & EXPERIENCES 120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com	CLIENT / PROJECT <p style="text-align: center;">Media Borough, PA Wayfinding and Signage System</p> PROJECT NO.
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SUBCONSULTANT		SHEET TITLE <p style="text-align: center;">Sign Type VDIR.1 Vehicular Directional</p>
DATE	DRAWN BY: LH	
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		
REVISIONS		SHEET NO.



1 Front View: VDIR.1
SCALE: 1/2" = 1'-0"



- 1. 4.5" OD POLE**
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - REFLECTIVE**
 MATERIAL: 1/8" thick Aluminum sheet
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 COLOR: custom, as noted
 GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
 FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
 EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
- 3. SUPPORT BAR**
 MATERIAL: 1/4" thk Aluminum Sheet
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Weld to custom bracket. Bracket is mechanically fastened to pole.
- 4. BRACKET**
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 5. COLLAR**
 MATERIAL: Cast Aluminum
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
 FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

NOTES

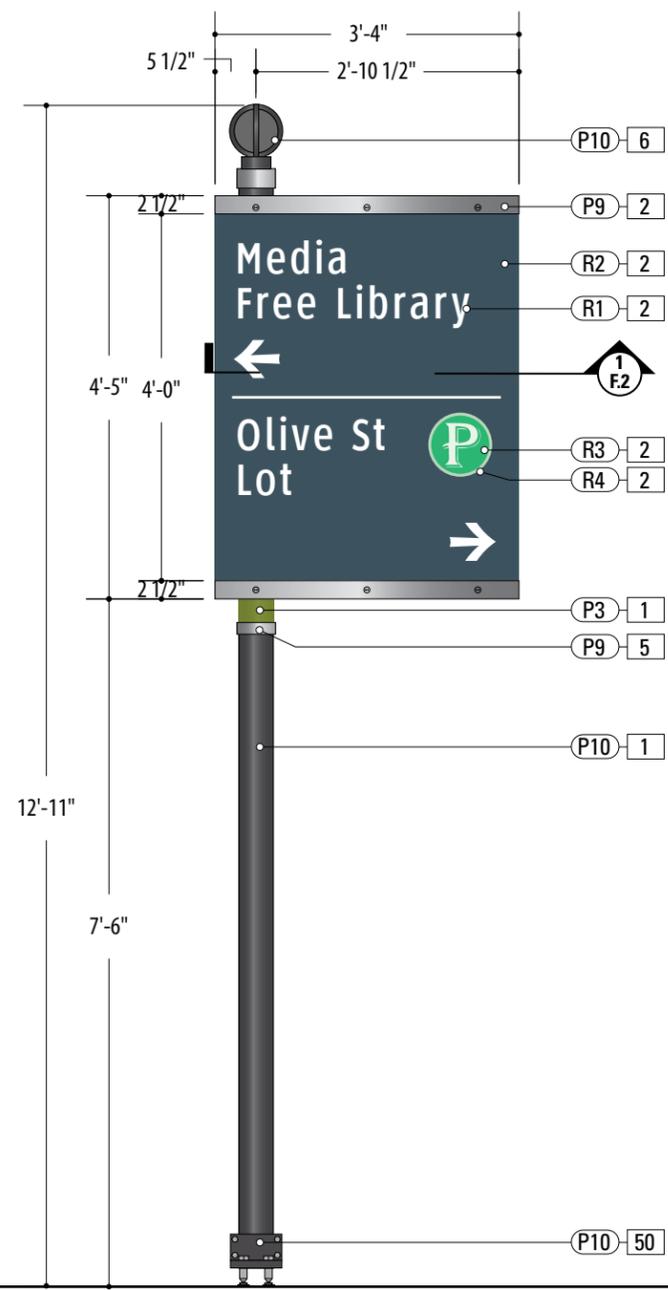
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed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

ENVIRONMENTS & EXPERIENCES 120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com	CLIENT / PROJECT <p style="text-align: center;">Media Borough, PA Wayfinding and Signage System</p> PROJECT NO.
--	---

SUBCONSULTANT		SHEET TITLE
DATE	DRAWN BY:	Sign Type VDIR.2 Vehicular Directional
06/30/16	LH	
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		SHEET NO.
		D.8



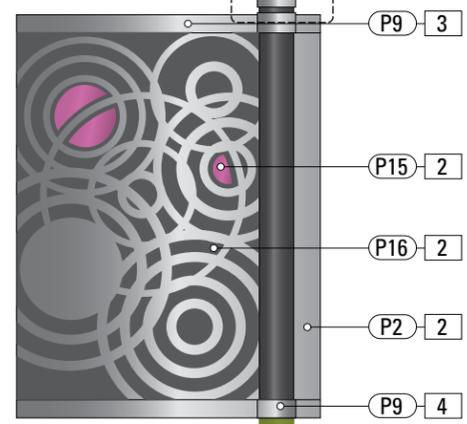
Top View



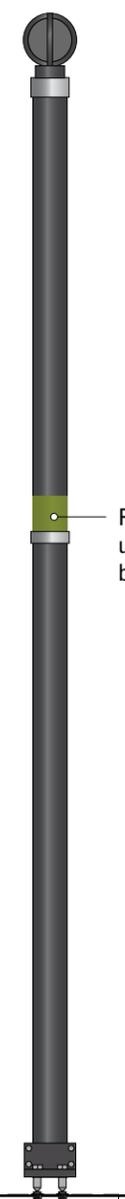
1 Front View: VDIR.2
SCALE: 1/2" = 1'-0"



Side View



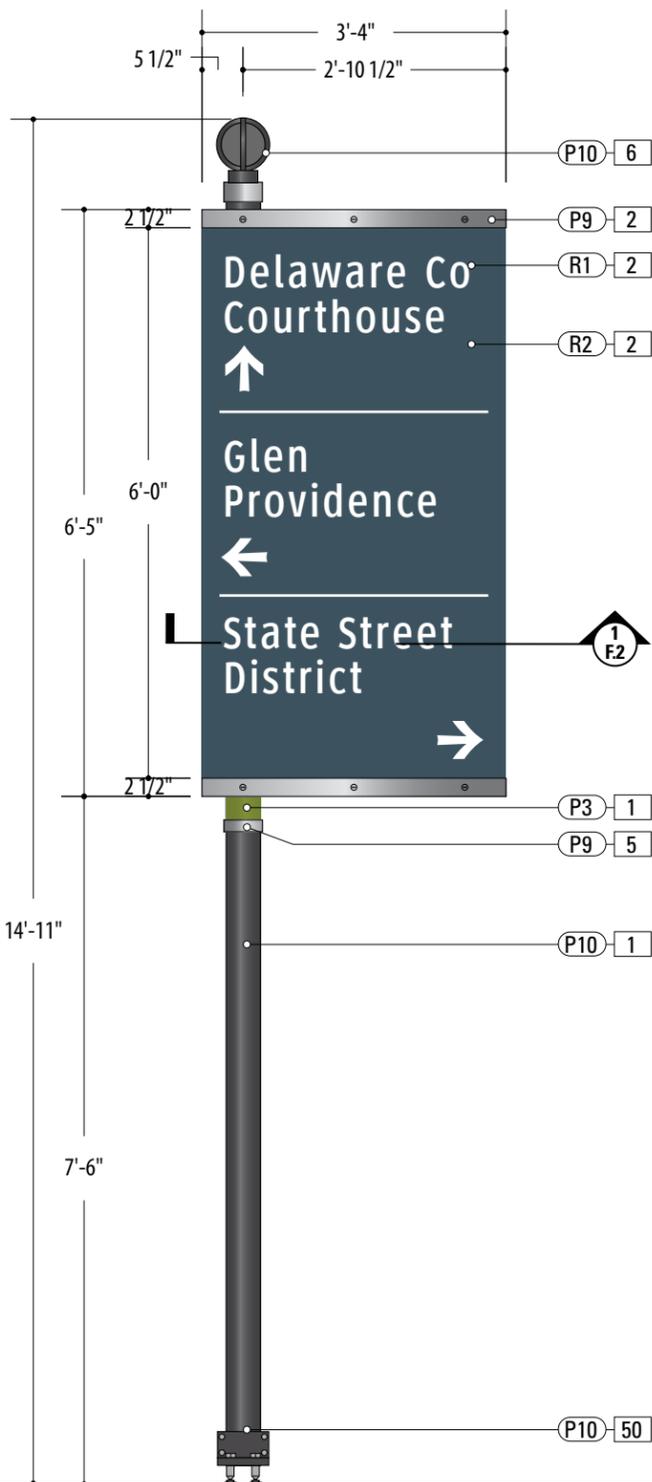
Back View



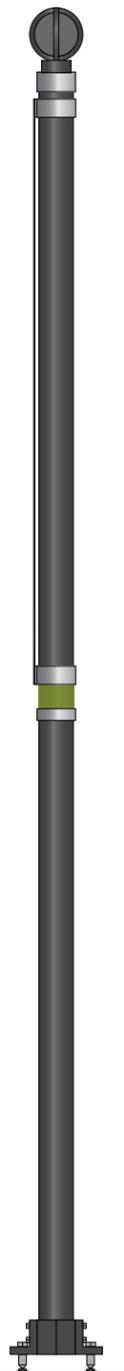
Footer Details
See Section F



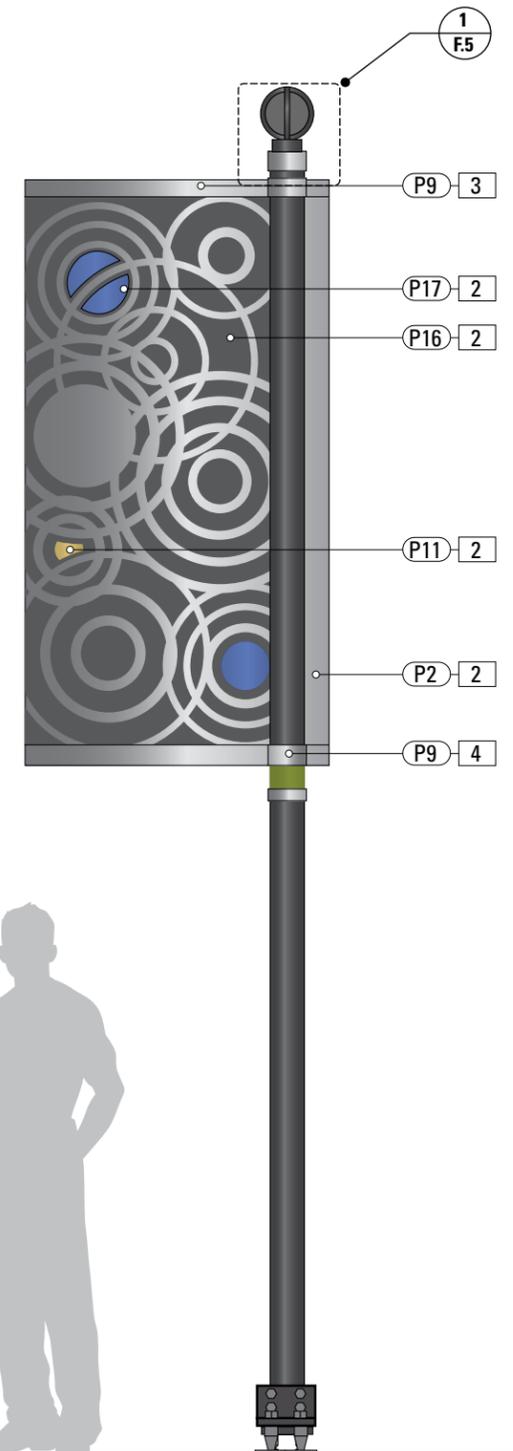
Top View



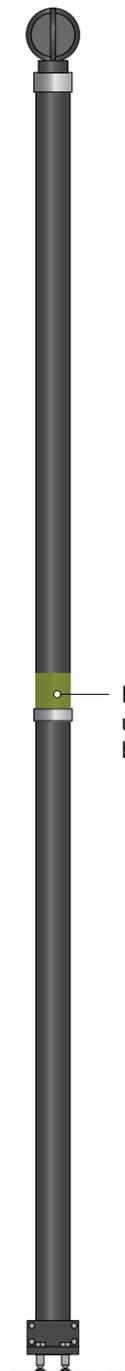
1 Front View: VDIR.3
SCALE: 1/2" = 1'-0"



Side View



Back View



Footer Details
See Section F

Pole is painted underneath bracket

- 1. 4.5" OD POLE**
MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
FABRICATION PROCESS: Extruded
EDGES: Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - REFLECTIVE**
MATERIAL: 1/8" thick Aluminum sheet
FABRICATION PROCESS: Router Cut
EDGES: Smooth
COLOR: custom, as noted
GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
- 3. SUPPORT BAR**
MATERIAL: 1/4" thk Aluminum Sheet
FABRICATION PROCESS: Extruded
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Weld to custom bracket. Bracket is mechanically fastened to pole.
- 4. BRACKET**
MATERIAL: Custom Aluminum Bracket.
FABRICATION PROCESS: Extruded
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 5. COLLAR**
MATERIAL: Cast Aluminum
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
MATERIAL: Custom cast Aluminum Finial.
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

NOTES

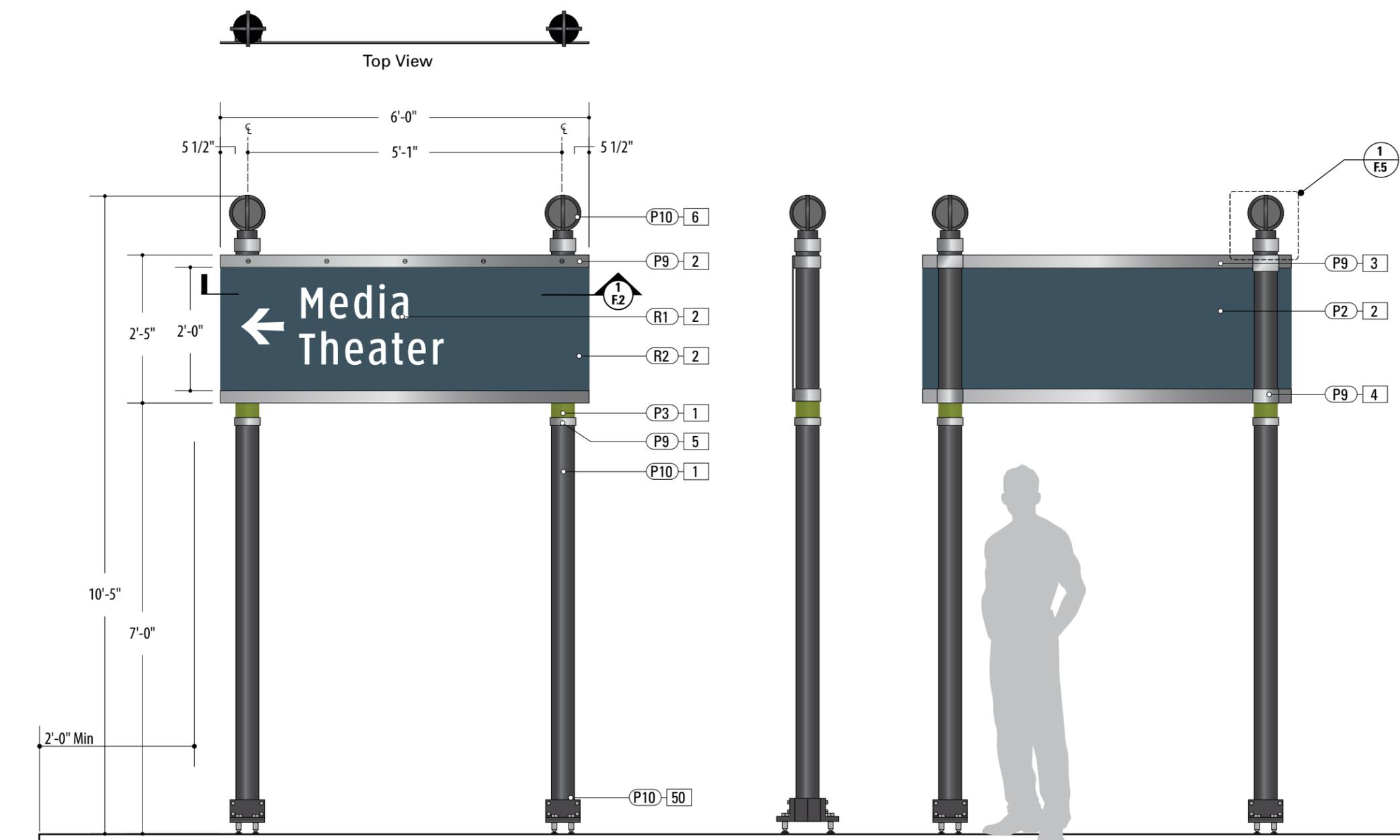
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2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

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120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com		SHEET TITLE Sign Type VDIR.3 Vehicular Directional SHEET NO.
SUBCONSULTANT DATE: 06/30/16 <small>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</small>	DRAWN BY: LH REVISIONS	D.9

- 1. 4.5" OD POLE**
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - REFLECTIVE**
 MATERIAL: 1/8" thick Aluminum sheet
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 COLOR: custom, as noted
 GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
 FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
 EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
- 3. SUPPORT BAR**
 MATERIAL: 1/4" thk Aluminum Sheet
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Weld to custom bracket Bracket. Bracket is mechanically fastened to pole.
- 4. BRACKET**
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 5. COLLAR**
 MATERIAL: Cast Aluminum
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
 FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

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- 3. All exposed edges painted to match adjacent face.**
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ENVIRONMENTS & EXPERIENCES 		CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System PROJECT NO.
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SUBCONSULTANT DATE: 06/30/16 DRAWN BY: LH REVISIONS		D.10



1 Front View: VDIR.4
 SCALE: 1/2" = 1'-0"

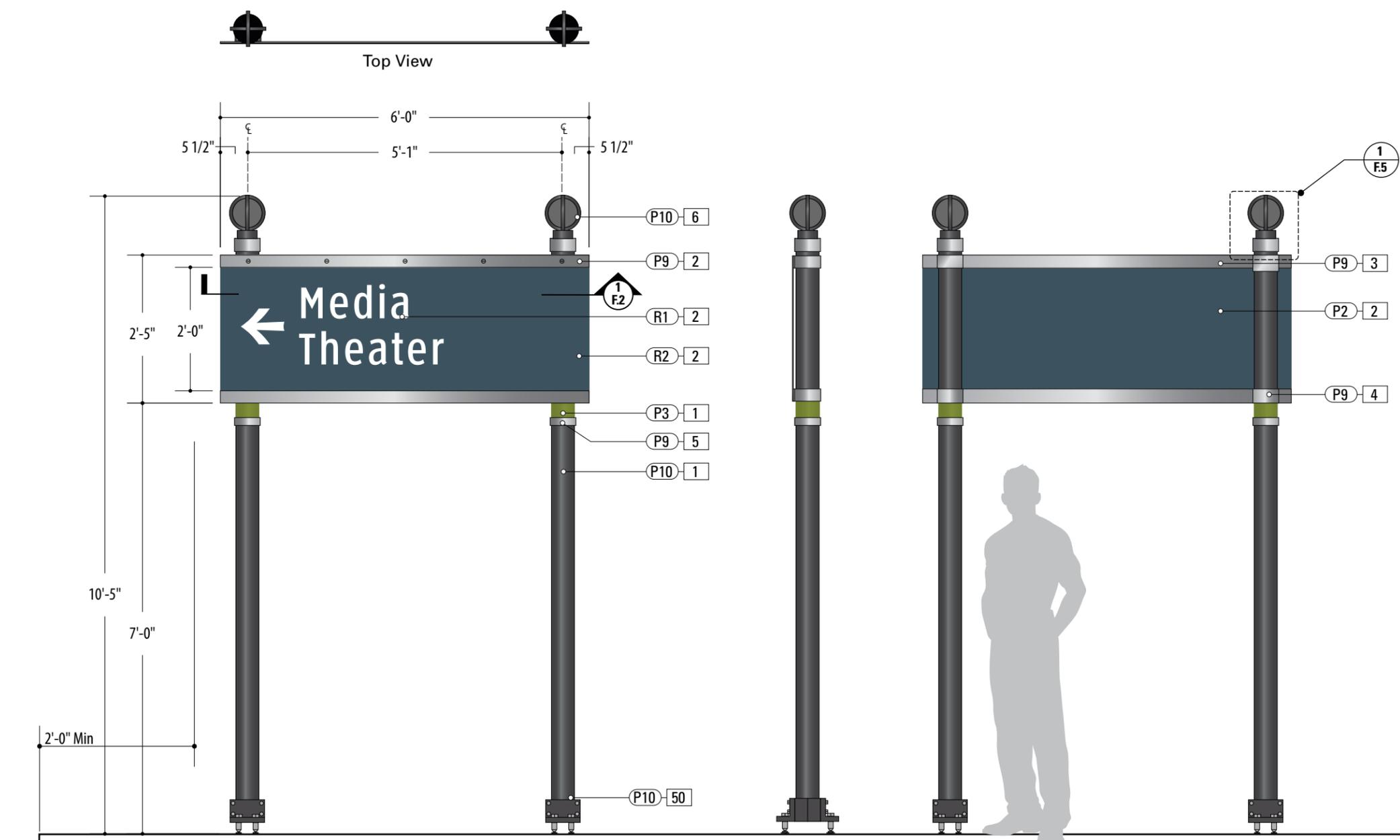
Side View

Back View

- 1. 4.5" OD POLE**
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - REFLECTIVE**
 MATERIAL: 1/8" thick Aluminum sheet
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 COLOR: custom, as noted
 GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
 FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
 EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
- 3. SUPPORT BAR**
 MATERIAL: 1/4" thk Aluminum Sheet
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Weld to custom bracket Bracket. Bracket is mechanically fastened to pole.
- 4. BRACKET**
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 5. COLLAR**
 MATERIAL: Cast Aluminum
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
 FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

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

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SUBCONSULTANT DATE: 06/30/16 DRAWN BY: LH REVISIONS		D.10



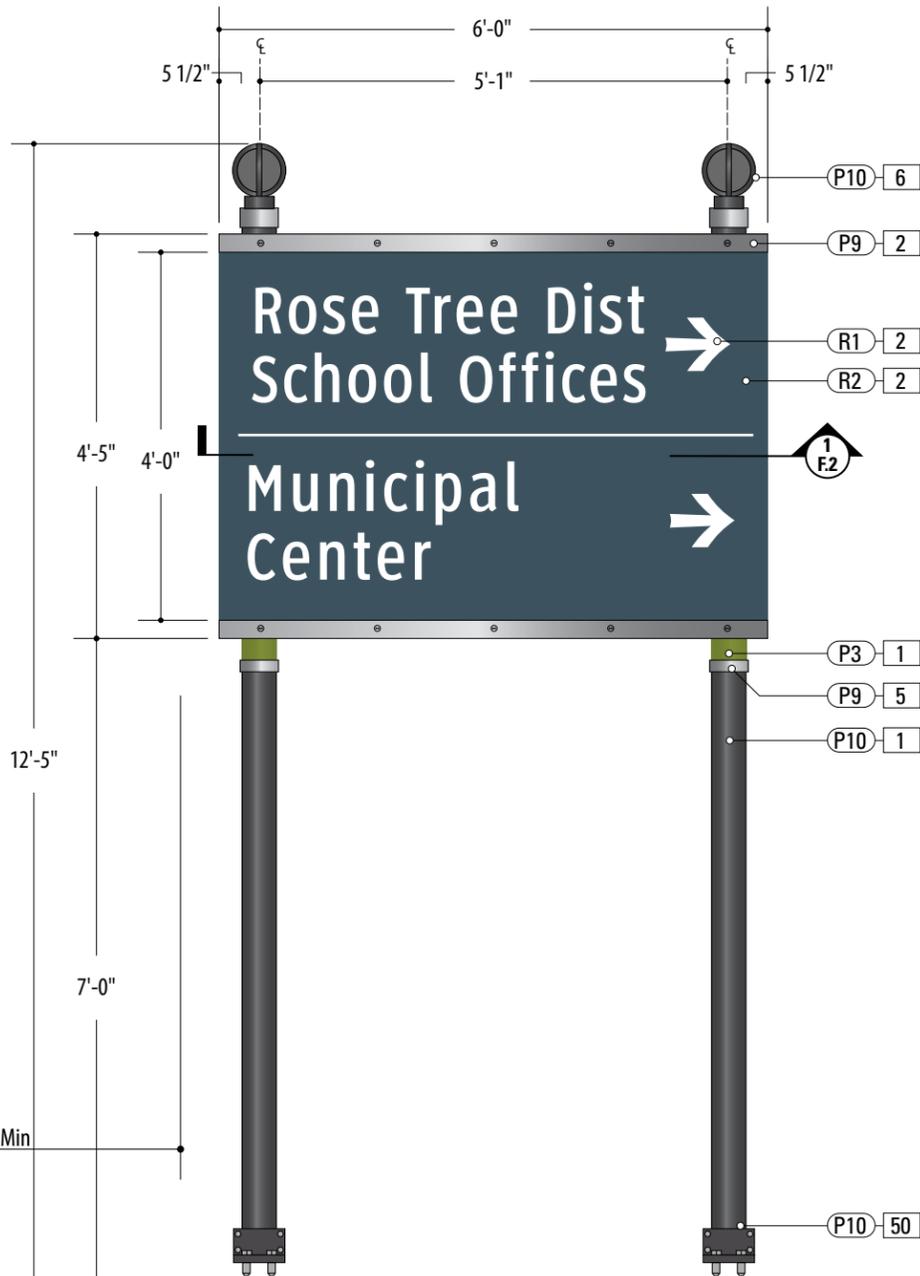
1 Front View: VDIR.4
 SCALE: 1/2" = 1'-0"

Side View

Back View



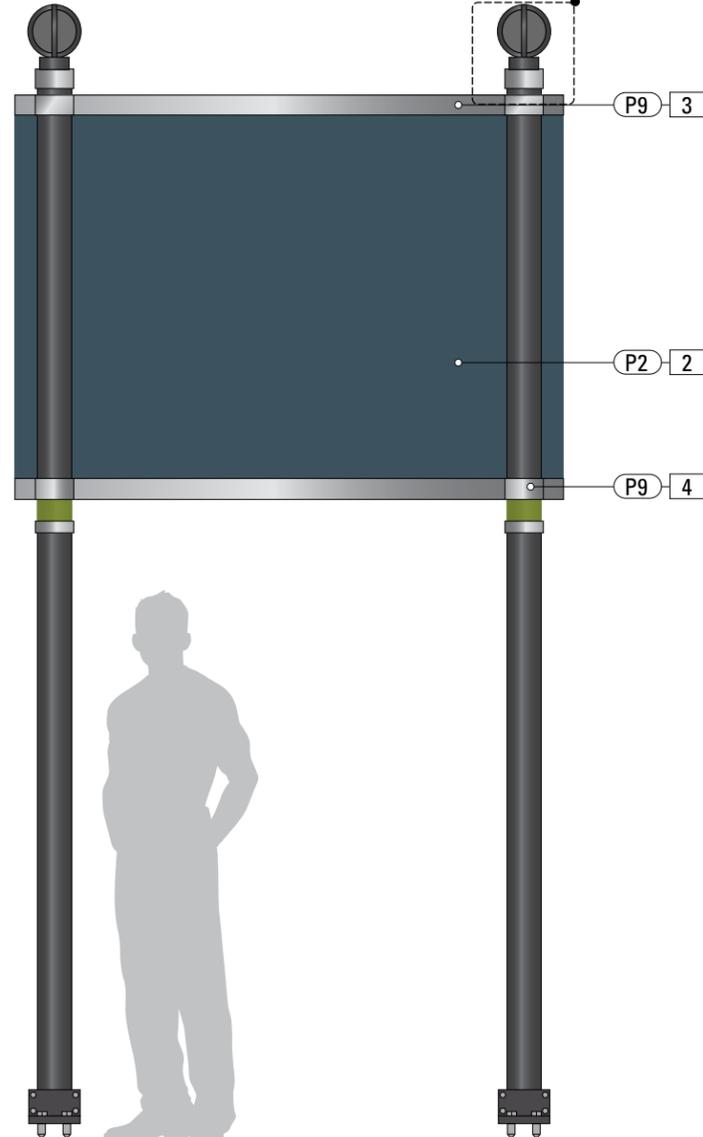
Top View



1 Front View: VDIR.5
SCALE: 1/2" = 1'-0"



Side View



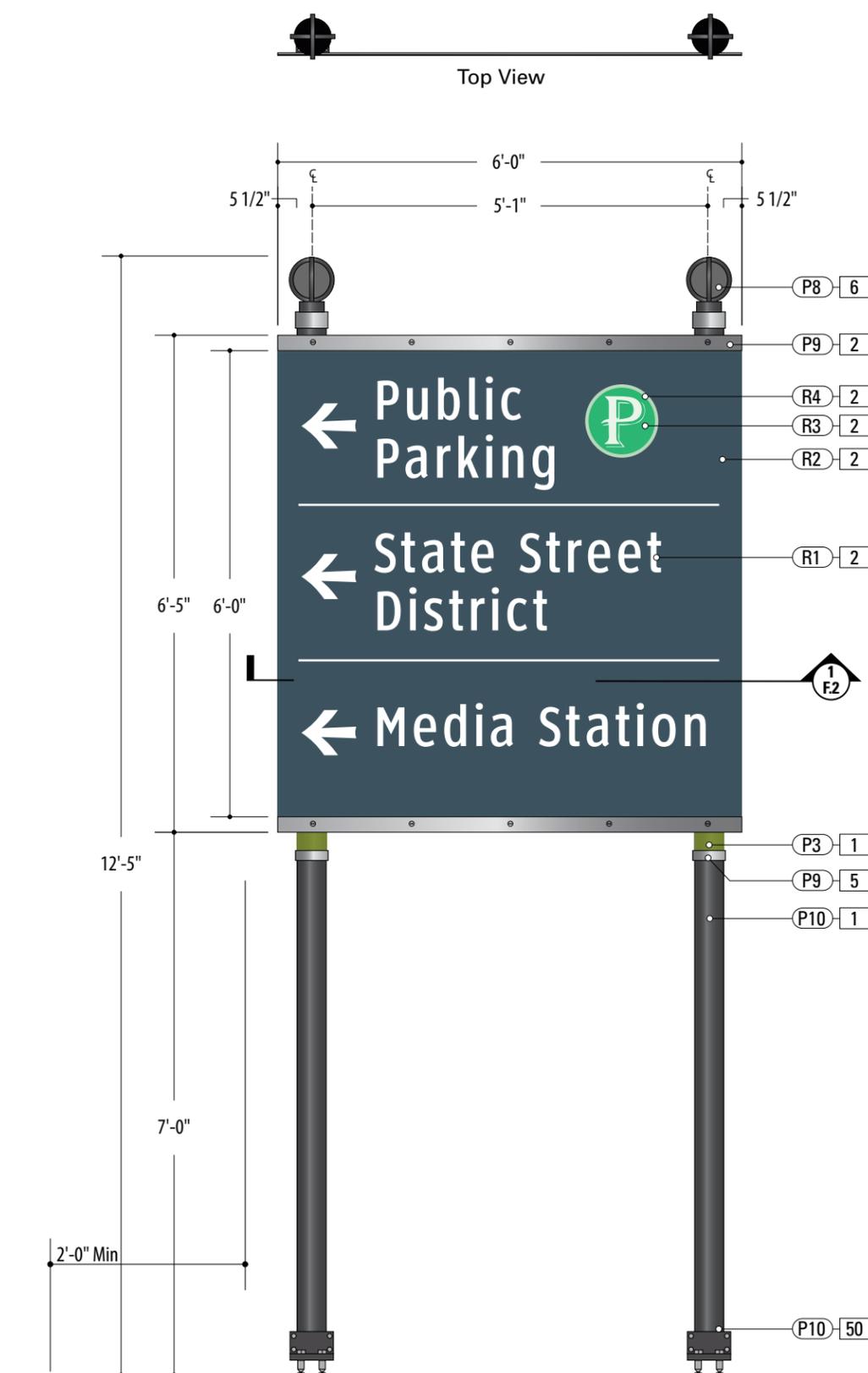
Back View

SPECIFICATIONS **SIGN TYPE:** VDIR.5 **FUNCTION:** Vehicular Directional

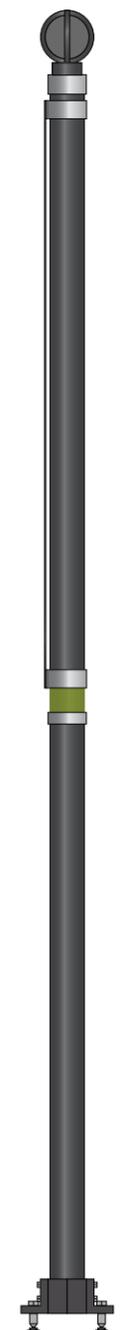
- 1. 4.5" OD POLE**
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - REFLECTIVE**
 MATERIAL: 1/8" thick Aluminum sheet
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 COLOR: custom, as noted
 GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
 FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
 EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
- 3. SUPPORT BAR**
 MATERIAL: 1/4" thk Aluminum Sheet
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Weld to custom bracket Bracket. Bracket is mechanically fastened to pole.
- 4. BRACKET**
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 5. COLLAR**
 MATERIAL: Cast Aluminum
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
 FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

- NOTES**
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 3. All exposed edges painted to match adjacent face.
 4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

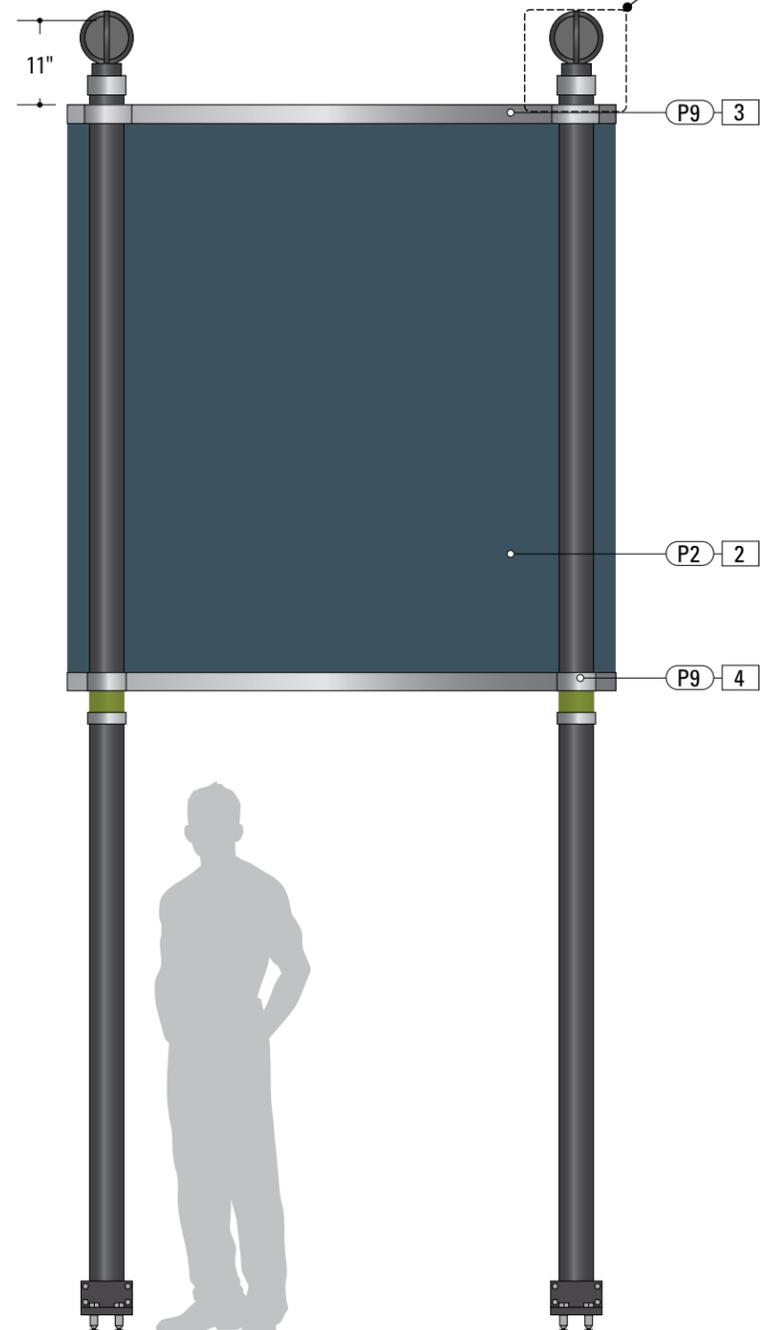
ENVIRONMENTS & EXPERIENCES 		CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
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SUBCONSULTANT		SHEET TITLE Sign Type VDIR.5 Vehicular Directional
DATE 06/30/16	DRAWN BY: LH	SHEET NO.
REVISIONS		
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		D.11



1 Front View: VDIR.6
SCALE: 1/2" = 1'-0"



Side View



Back View

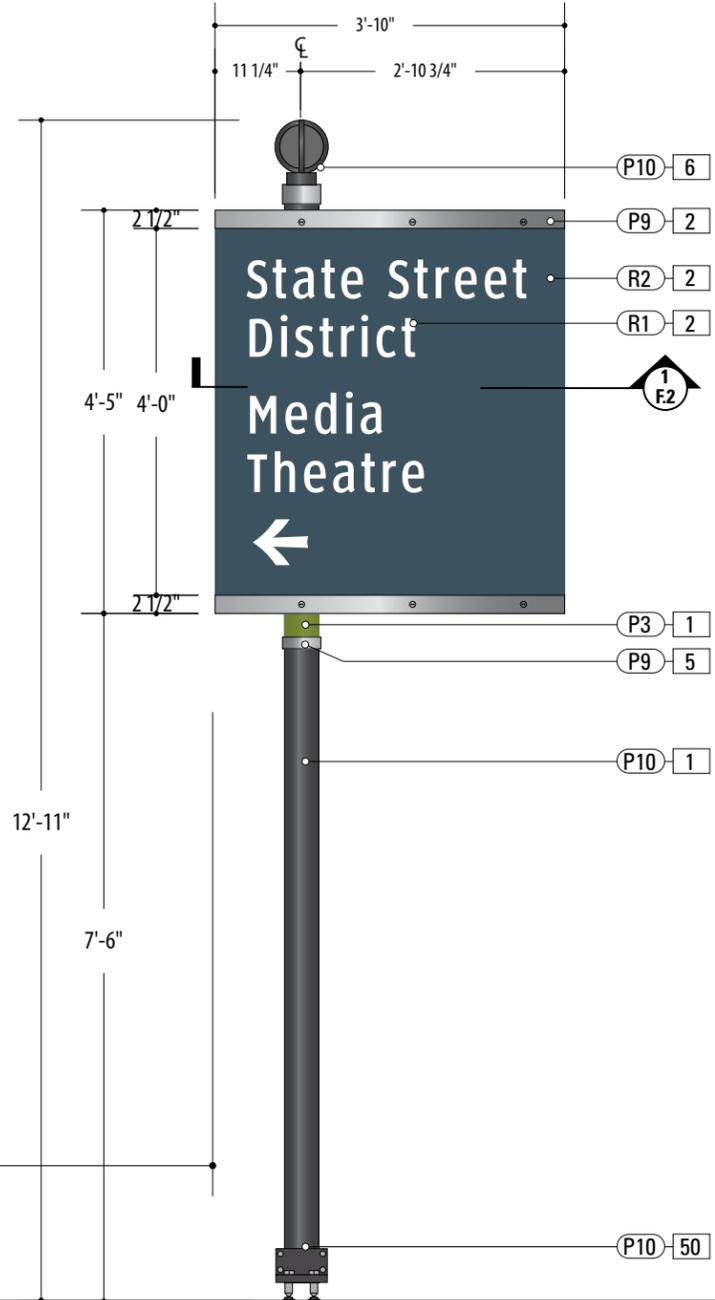
- 1. 4.5" OD POLE**
MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
FABRICATION PROCESS: Extruded
EDGES: Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - REFLECTIVE**
MATERIAL: 1/8" thick Aluminum sheet
FABRICATION PROCESS: Router Cut
EDGES: Smooth
COLOR: custom, as noted
GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
- 3. SUPPORT BAR**
MATERIAL: 1/4" thk Aluminum Sheet
FABRICATION PROCESS: Extruded
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Weld to custom bracket Bracket. Bracket is mechanically fastened to pole.
- 4. BRACKET**
MATERIAL: Custom Aluminum Bracket.
FABRICATION PROCESS: Extruded
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 5. COLLAR**
MATERIAL: Cast Aluminum
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
MATERIAL: Custom cast Aluminum Finial.
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

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ENVIRONMENTS & EXPERIENCES		CLIENT / PROJECT
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		PROJECT NO.
SUBCONSULTANT		SHEET TITLE
DATE	06/30/16	Sign Type VDIR.6 Vehicular Directional
DRAWN BY: LH		
REVISIONS		SHEET NO.
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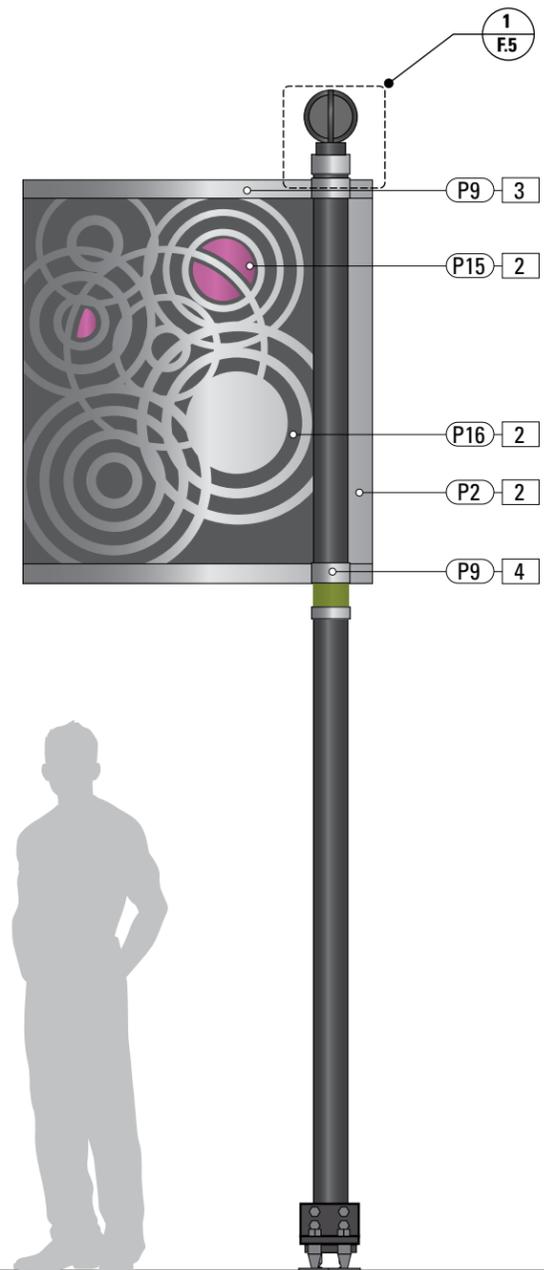
Top View



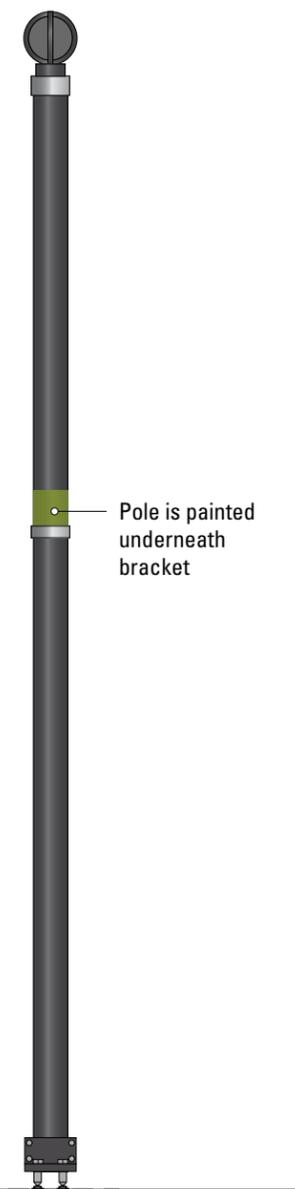
1 Front View: VDIR.7
SCALE: 1/2" = 1'-0"



Side View



Back View

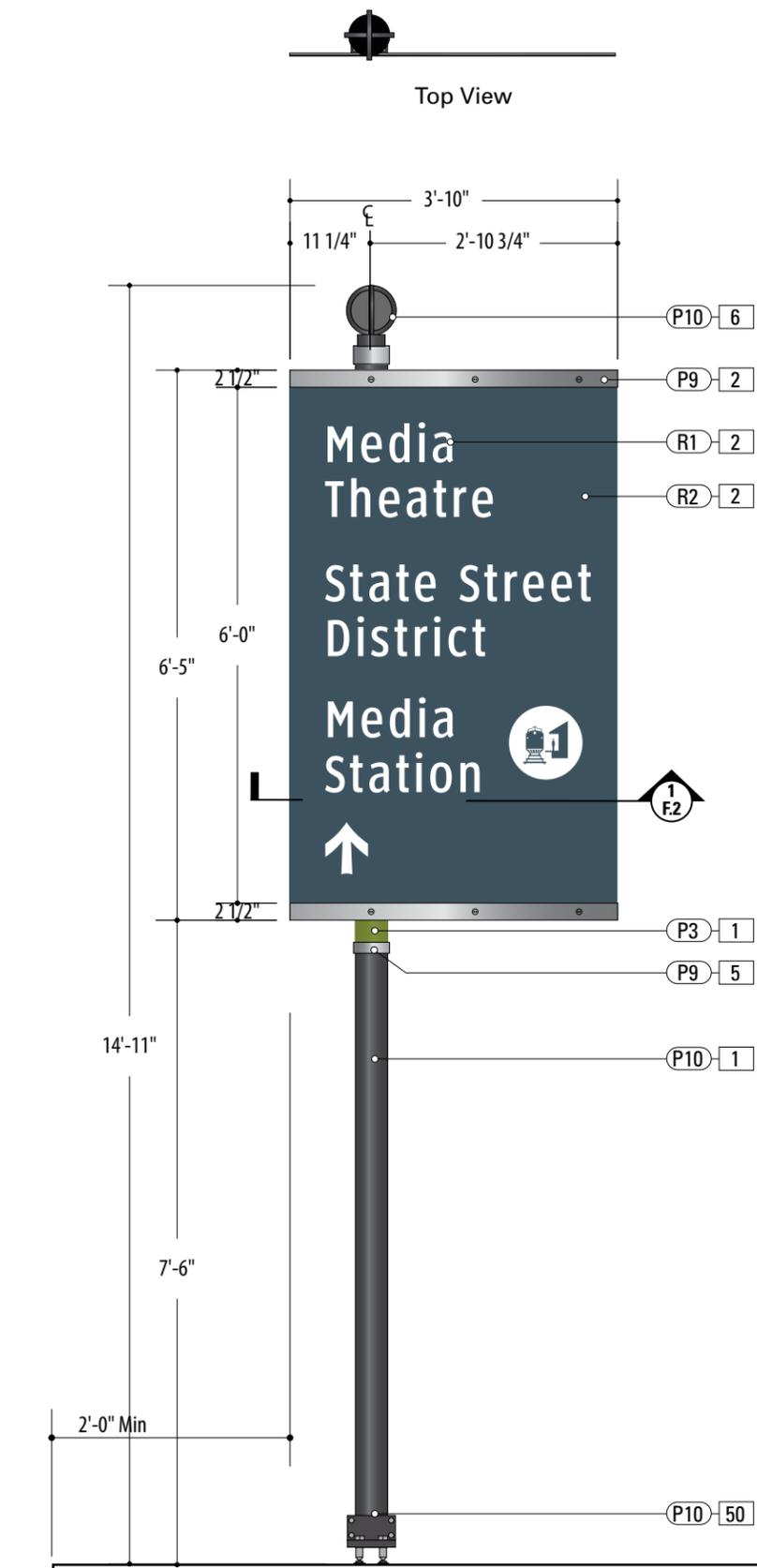


Footer Details
See Section F

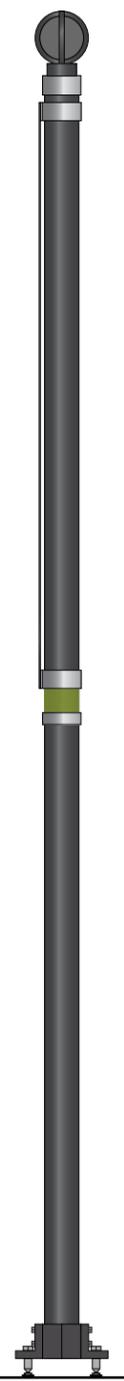
- 1. 4.5" OD POLE**
MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
FABRICATION PROCESS: Extruded
EDGES: Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - REFLECTIVE**
MATERIAL: 1/8" thick Aluminum sheet
FABRICATION PROCESS: Router Cut
EDGES: Smooth
COLOR: custom, as noted
GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
- 3. SUPPORT BAR**
MATERIAL: 1/4" thk Aluminum Sheet
FABRICATION PROCESS: Extruded
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Weld to custom bracket. Bracket is mechanically fastened to pole.
- 4. BRACKET**
MATERIAL: Custom Aluminum Bracket.
FABRICATION PROCESS: Extruded
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 5. COLLAR**
MATERIAL: Cast Aluminum
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
MATERIAL: Custom cast Aluminum Finial.
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

- NOTES**
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 3. All exposed edges painted to match adjacent face.
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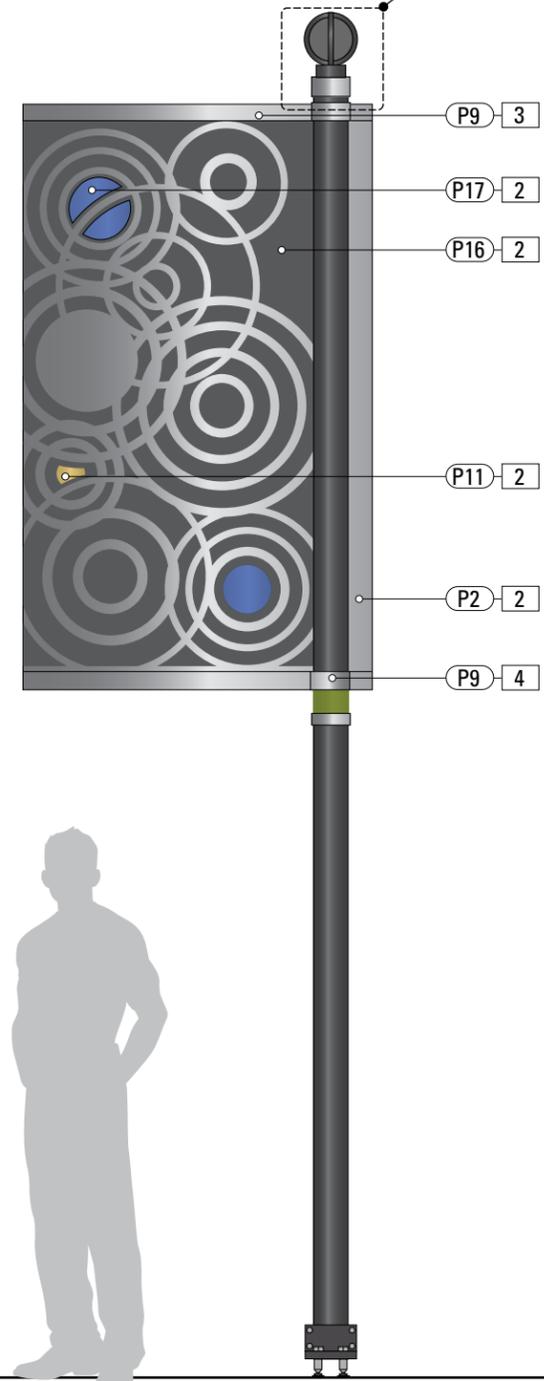
ENVIRONMENTS & EXPERIENCES 		CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com		PROJECT NO.
SUBCONSULTANT		SHEET TITLE Sign Type VDIR.7 Vehicular Directional
DATE 06/30/16	DRAWN BY: LH	SHEET NO.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		D.13



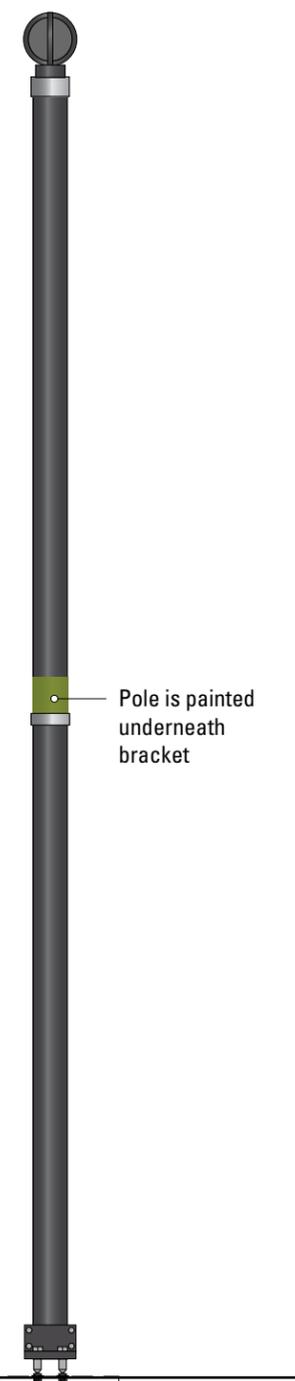
1 Front View: VDIR.8
SCALE: 1/2" = 1'-0"



Side View



Back View

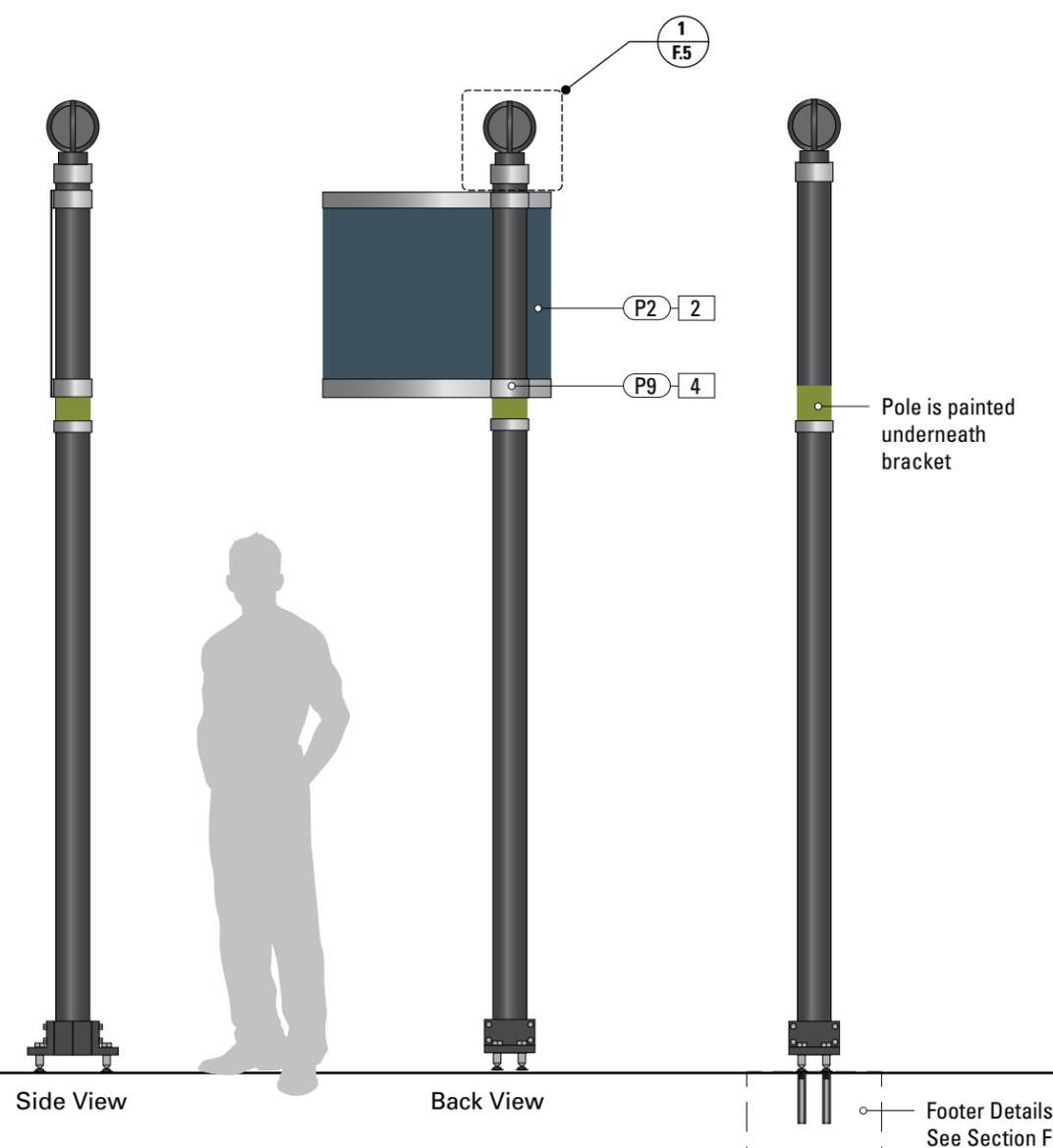
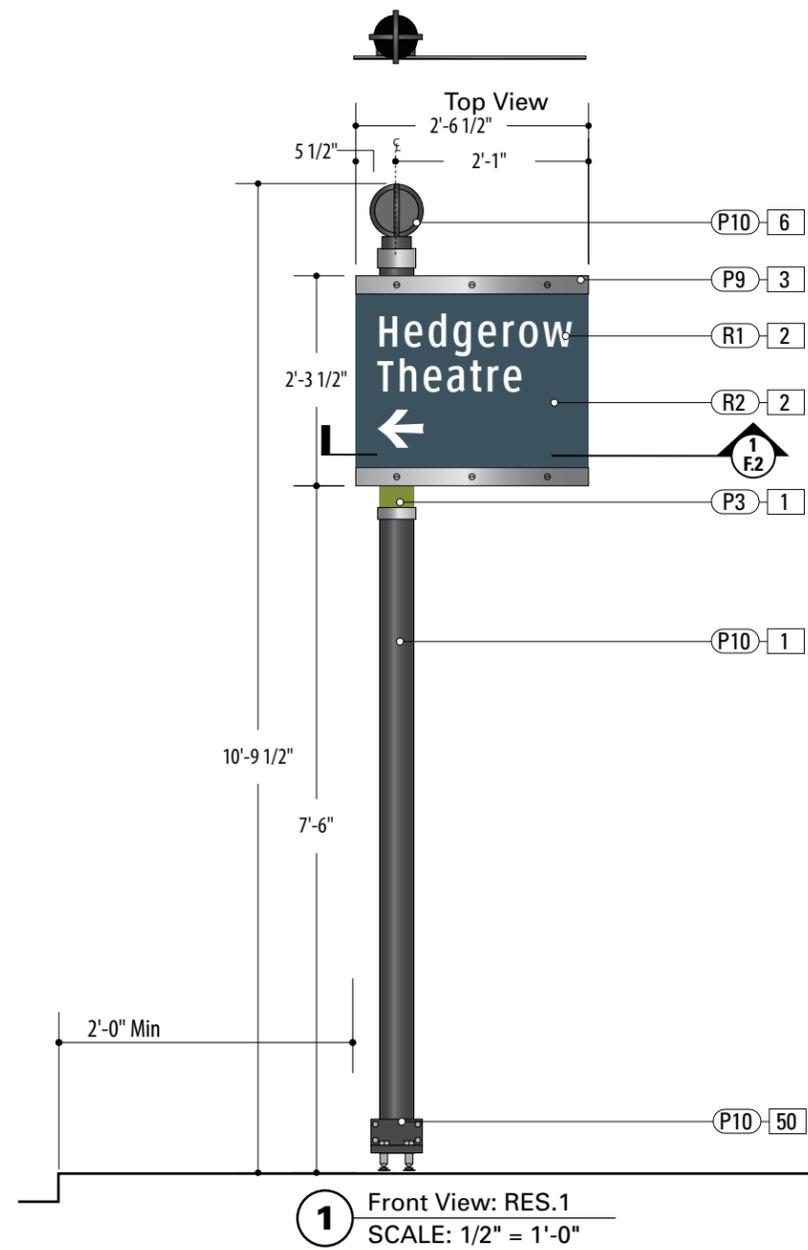


Footer Details
See Section F

- 1. 4.5" OD POLE**
MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
FABRICATION PROCESS: Extruded
EDGES: Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - REFLECTIVE**
MATERIAL: 1/8" thick Aluminum sheet
FABRICATION PROCESS: Router Cut
EDGES: Smooth
COLOR: custom, as noted
GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
- 3. SUPPORT BAR**
MATERIAL: 1/4" thk Aluminum Sheet
FABRICATION PROCESS: Extruded
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Weld to custom bracket. Bracket is mechanically fastened to pole.
- 4. BRACKET**
MATERIAL: Custom Aluminum Bracket.
FABRICATION PROCESS: Extruded
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 5. COLLAR**
MATERIAL: Cast Aluminum
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
MATERIAL: Custom cast Aluminum Finial.
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

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

ENVIRONMENTS & EXPERIENCES		CLIENT / PROJECT	
		120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com	
		Media Borough, PA Wayfinding and Signage System	
SUBCONSULTANT		PROJECT NO.	
DATE	06/30/16	DRAWN BY:	LH
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		SHEET TITLE	
		Sign Type VDIR.8 Vehicular Directional	
		SHEET NO.	
		D.14	

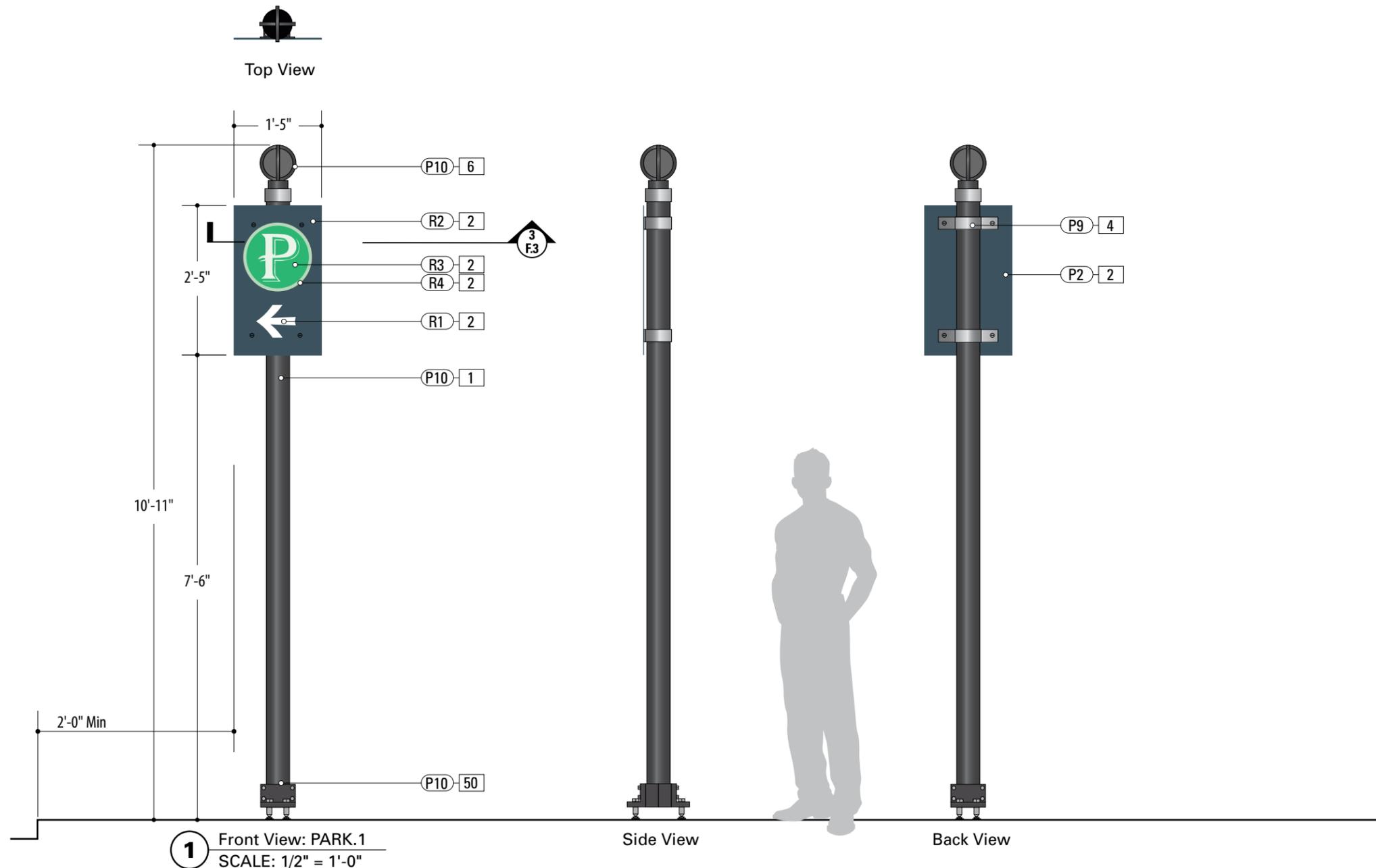


- 1. 4.5" OD POLE**
MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
FABRICATION PROCESS: Extruded
EDGES: Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - REFLECTIVE**
MATERIAL: 1/8" thick Aluminum sheet
FABRICATION PROCESS: Router Cut
EDGES: Smooth
COLOR: custom, as noted
GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
- 3. SUPPORT BAR**
MATERIAL: 1/4" thk Aluminum Sheet
FABRICATION PROCESS: Extruded
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Weld to custom bracket. Bracket is mechanically fastened to pole.
- 4. BRACKET**
MATERIAL: Custom Aluminum Bracket.
FABRICATION PROCESS: Extruded
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 5. COLLAR**
MATERIAL: Cast Aluminum
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
MATERIAL: Custom cast Aluminum Finial.
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

NOTES

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

<p>ENVIRONMENTS & EXPERIENCES</p> <p>120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com</p>		<p>CLIENT / PROJECT</p> <p style="text-align: center;">Media Borough, PA Wayfinding and Signage System</p>
<p>SUBCONSULTANT</p>		<p>PROJECT NO.</p>
<p>DATE 06/30/16</p>	<p>DRAWN BY: LH</p>	<p>Sign Type RES.1 Residential Vehicular Directional</p>
<p>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</p>		



1 Front View: PARK.1
SCALE: 1/2" = 1'-0"

- 1. 4.5" OD POLE**
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: As per PENNDOT breakaway specs.
- 2. 1/8" SIGN PANEL - REFLECTIVE**
 MATERIAL: 1/8" thick Aluminum sheet
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 COLOR: custom, as noted
 GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
 FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
 EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
- 4. BRACKET**
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 6. 4" FINIAL**
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.
- 50. BREAKAWAY FOOTER**
 FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

NOTES

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

ENVIRONMENTS & EXPERIENCES 		CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System PROJECT NO.
120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com		SHEET TITLE Sign Type PARK.1 Parking Trailblazer
SUBCONSULTANT		SHEET NO.
DATE 06/30/16	DRAWN BY: LH	D.16
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		REVISIONS

- 1. 4.5" OD POLE**
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4
 (4.5" OD x .237" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: As per PENNDOT breakaway specs.

- 6. 4" FINIAL**
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

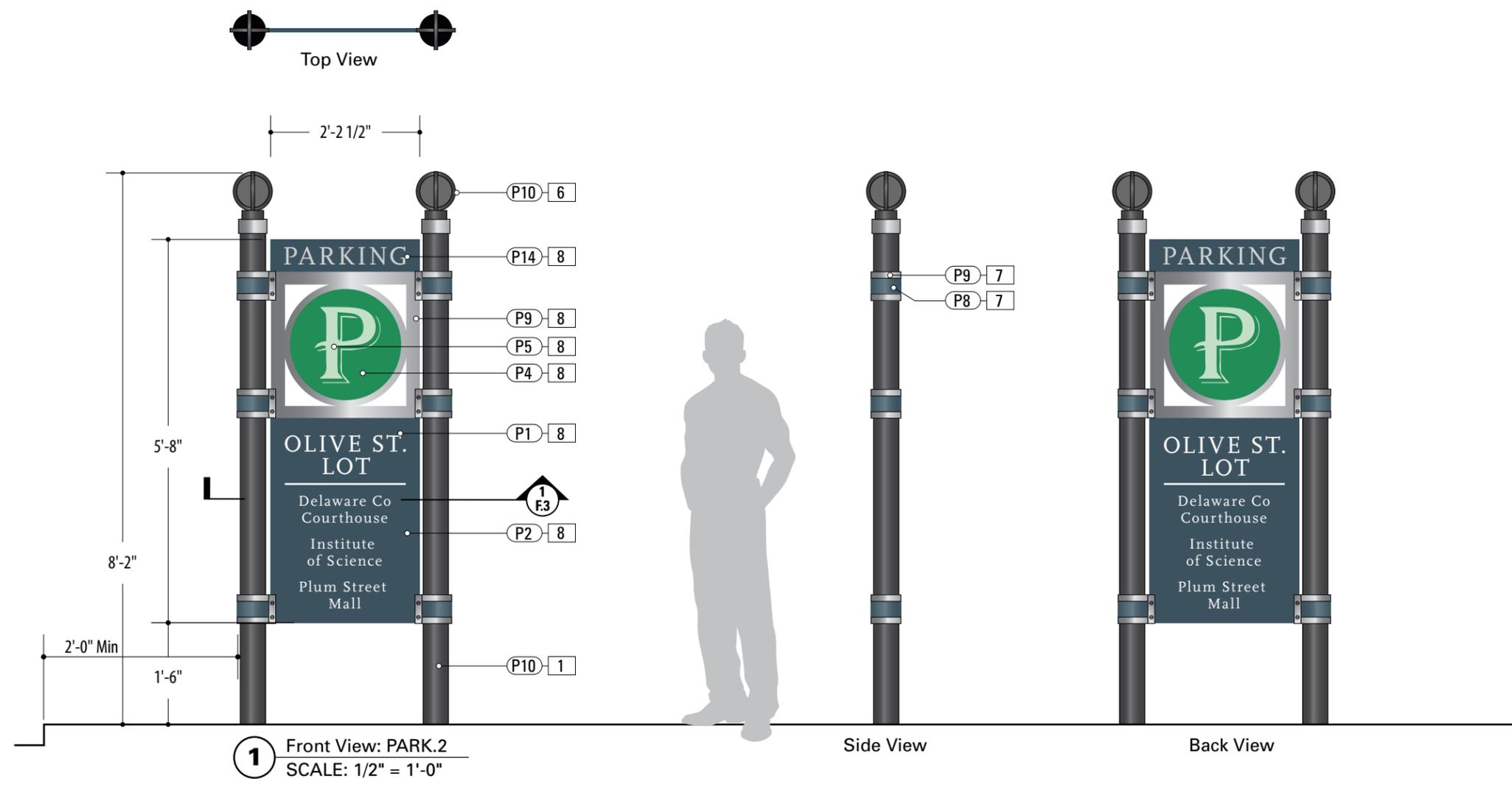
- 7. COLLAR/BRACKET**
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

- 8. 1/4" SIGN PANEL - PAINT**
 MATERIAL: 1/4" thick Aluminum sheet
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to Bracket.

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

<p style="text-align: center; font-weight: bold; letter-spacing: 0.2em;">ENVIRONMENTS & EXPERIENCES</p> <p style="font-size: 2em; font-weight: bold; margin-top: 10px;">merJe</p> <p style="font-size: 0.8em; margin-top: 5px;">120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com</p>	<p style="font-size: 0.8em;">CLIENT / PROJECT</p> <p style="text-align: center; font-weight: bold; margin-top: 10px;">Media Borough, PA</p> <p style="font-size: 0.8em;">Wayfinding and Signage System</p> <hr/> <p style="font-size: 0.8em;">PROJECT NO.</p>
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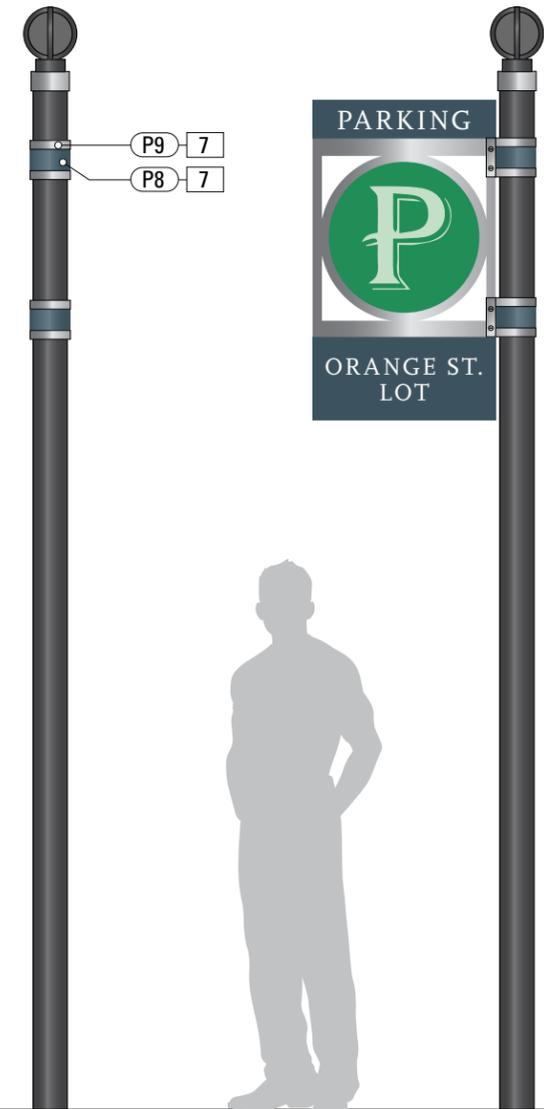
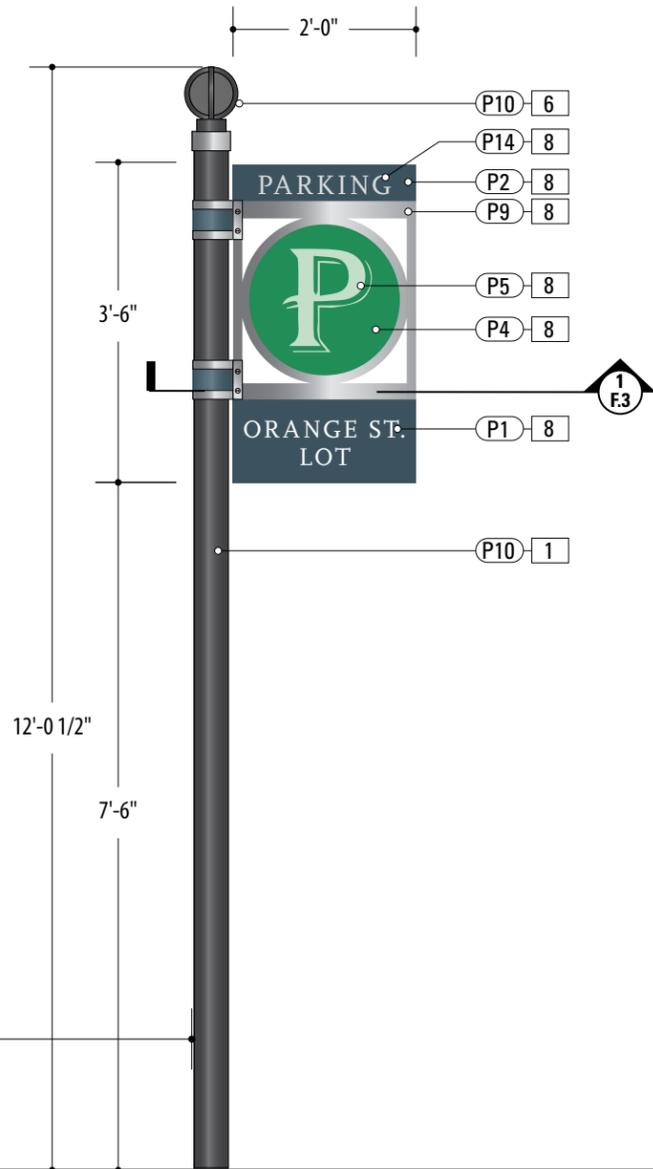
<p style="font-size: 0.8em;">SUBCONSULTANT</p>		<p style="font-size: 0.8em;">SHEET TITLE</p> <p style="text-align: center; font-weight: bold; margin-top: 10px;">Sign Type PARK.2 Parking Identification</p>
<p style="font-size: 0.8em;">DATE</p> <p style="text-align: center;">06/30/16</p>	<p style="font-size: 0.8em;">DRAWN BY:</p> <p style="text-align: center;">LH</p>	<p style="font-size: 0.8em;">SHEET NO.</p> <p style="text-align: center; font-size: 1.5em; font-weight: bold; margin-top: 10px;">D.17</p>
<p style="font-size: 0.7em;">These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</p>		<p style="font-size: 0.8em;">REVISIONS</p>



1 Front View: PARK.2
SCALE: 1/2" = 1'-0"

Side View

Back View



1 Front View: PARK.3
SCALE: 1/2" = 1'-0"

Side View

Back View

Side View

1. 4.5" OD POLE
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4
 (4.5" OD x .237" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: As per PENNDOT breakaway specs.

6. 4" FINIAL
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

7. COLLAR/BRACKET
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

8. 1/4" SIGN PANEL - PAINT
 MATERIAL: 1/4" thick Aluminum sheet
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to Bracket.

NOTES

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

ENVIRONMENTS & EXPERIENCES merJe 120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com	CLIENT / PROJECT
	Media Borough, PA Wayfinding and Signage System
PROJECT NO.	

SUBCONSULTANT		SHEET TITLE
DATE	DRAWN BY:	
06/30/16	LH	Sign Type PARK.3 Parking Identification
REVISIONS		

SHEET NO.		D.18
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		

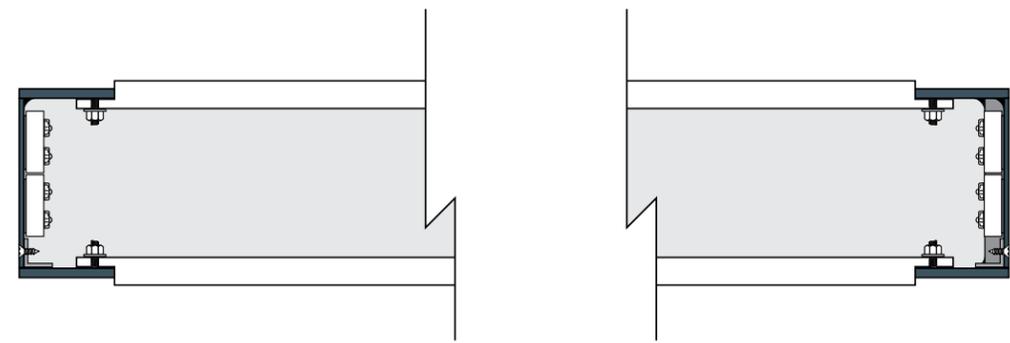


Recommend 12' - 14'-0" above Street or Sidewalk

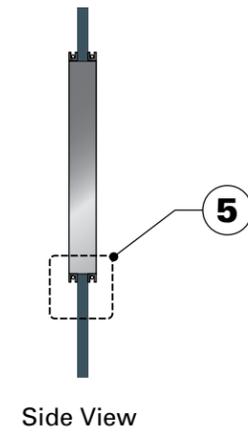


1 Front View: PARK.4
SCALE: 3/8" = 1'-0"

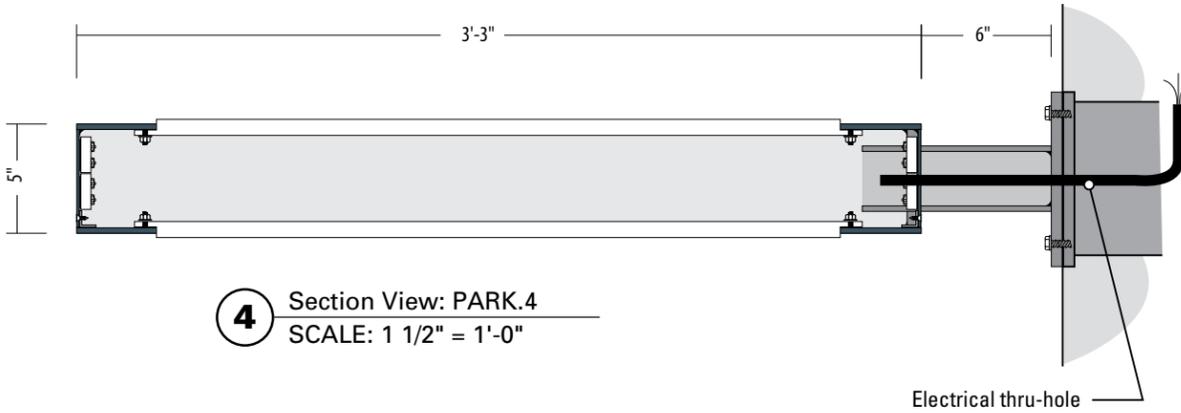
NOTE: Lighting of sign types shall be of the appropriate level - to maintain a safe/legible and comfortable viewing distance.
Field testing of light fixtures is required - to verify placement/quantity and light luminosity. Lighting shall be uniform without glare and hotspots. Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky. Power Supply is to be provided by the Borough of Media within 6 feet of Sign Installation.



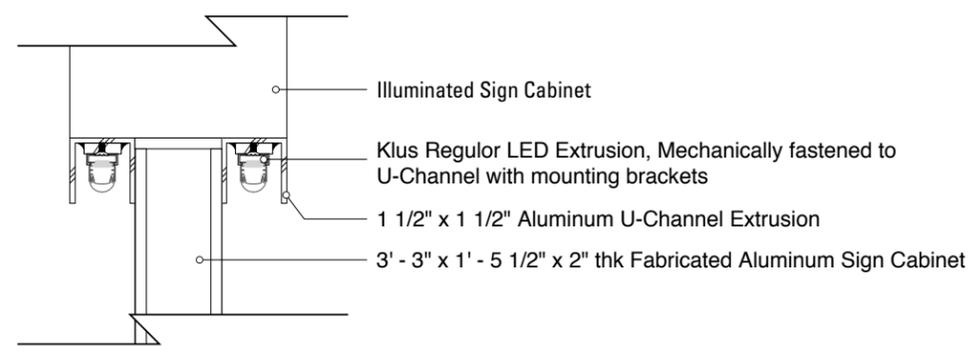
3 Detail: PARK.4
SCALE: NTS



Side View



4 Section View: PARK.4
SCALE: 1 1/2" = 1'-0"



5 Section View: PARK.4
SCALE: 1 1/2" = 1'-0"

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

EXTERNAL LED LIGHT FIXTURE
Product: KLUS Regular LED Extrusion with Flexible LED Strip. Cut to size.

EXTERNAL LED HOUSING
Material: 1.5" Aluminum U-Channel
Fabrication Process: Extruded
Edges: Smooth
Color: Custom, as noted
Surface Process: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
Fastener: Mechanically fasten to sign cabinet

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

INTERNAL LED LIGHT FIXTURE
Lighting Process: Internal Face Lit
Manufacturer: Sylvania LED #OSDC36w2-865- Exterior or approved equal.
Color: White
Fasten: Mount to inside of Logo, provide rear baffle at rear with second row of LEDs.

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

HARDWARE
MOUNTING METHOD: Mechanically Fasten
MATERIAL: Stainless Steel
TYPE: Screw with threaded anchor insert.
SIZE: as determined by Fabricator
MOUNTING SURFACE: Concrete or Brick VIF

- NOTES**
- Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
 - Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
 - All exposed edges painted to match adjacent face.
 - Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

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	Media Borough, PA Wayfinding and Signage System
PROJECT NO.	

SUBCONSULTANT		SHEET TITLE
DATE	DRAWN BY:	
06/30/16	LH	Sign Type PARK.4 Flag Parking Garage Sign
REVISIONS		
<small>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</small>		SHEET NO.
		D.19

BALTIMORE AVENUE GARAGE

2 Front View: PARK.5
SCALE: 1/2" = 1'-0"



3 Front View: PARK.6
SCALE: 1/2" = 1'-0"



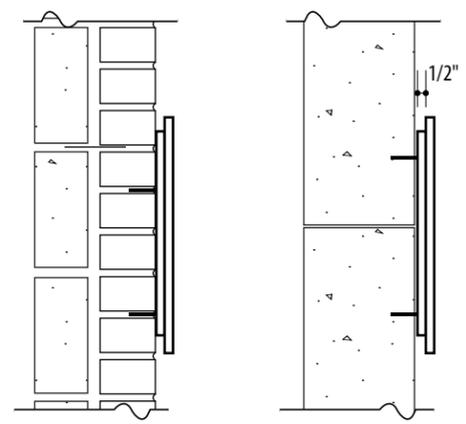
5 Front View: PARK.7
SCALE: 1/2" = 1'-0"



4 Front View: PARK.8
SCALE: 1/2" = 1'-0"



1 Front View: PARK.5-8
SCALE: 1/4" = 1'-0"



17. LETTERS
 Size: 3/8" Thk.
 MATERIAL: Aluminum
 FABRICATION PROCESS: Router Cut Fabricated Edges
 EDGES: Smooth
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: mechanically fasten to existing wall. Anchor suitable for wall material.

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

MOUNTING SURFACE: Concrete or Brick VIF

*Fabricator shall VIF all measurements in field



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

ENVIRONMENTS & EXPERIENCES		CLIENT / PROJECT
120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com		Media Borough, PA Wayfinding and Signage System
SUBCONSULTANT		PROJECT NO.
DATE: 06/30/16	DRAWN BY: LH	SHEET TITLE
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		Sign Type PARK.5-8 Parking Garage Signs
REVISIONS		SHEET NO.
		D.20

9. 1/4" SIGN PANEL
 MATERIAL: 1/4" thick Aluminum sheet
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to bracket with L-Angle.
COPY PANEL
 GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to Scotchcal® #3690 with 3M approved UV/Graffiti Vinyl Overlaminates.
 (See Color Sheet for all color and material specifications)

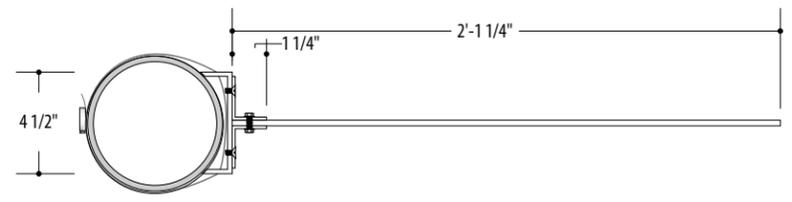
10. POLE STRAP ATTACHMENT
 Band-It Band: COLOR-IT® Coating, Product #C206C9-P900 (or approved equal.)
 MATERIAL: 201 Stainless Steel, coated with COLOR-IT® Polyester coating
 SIZE: 3/4 inch
 FINISH: To match existing pole, pole color may vary - verify in field
 FASTENER: Ultra-Lok® Free End clamps
NOTE: Sign Contractor to coordinate the removal or movement of interfering existing signs on utility poles, with the city.

11. BRACKET
 MATERIAL: 3/16" thick Aluminum U-Channel
 FABRICATION PROCESS: Extruded
 EDGES: Square, Smooth
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Tamper-resistant mechanically fastened to Sign Panel. SS strap-mounted to utility pole.

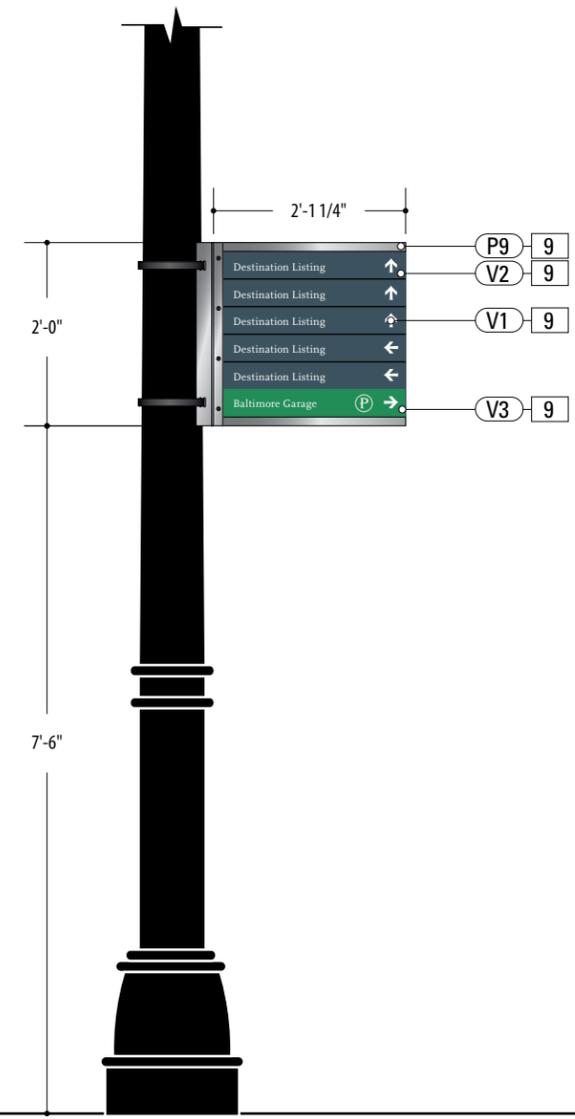
- NOTES**
- Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
 - Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
 - All exposed edges painted to match adjacent face.
 - Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

ENVIRONMENTS & EXPERIENCES  120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com	CLIENT / PROJECT
	Media Borough, PA Wayfinding and Signage System
PROJECT NO.	

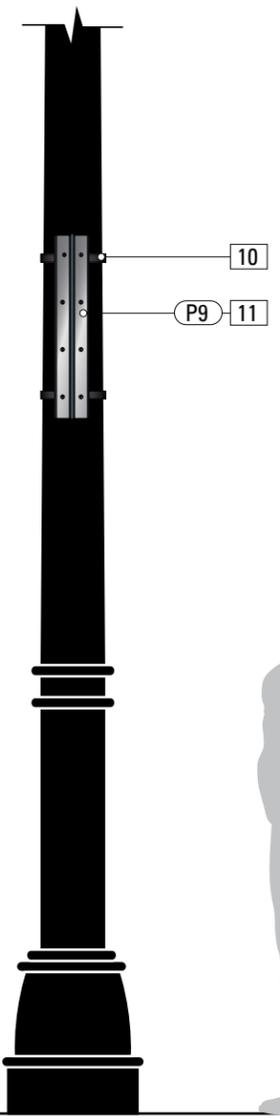
SUBCONSULTANT		SHEET TITLE
DATE	DRAWN BY:	
06/30/16	LH	Sign Type PDIR.1 Pedestrian Directional
REVISIONS		
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		SHEET NO.
		D.21



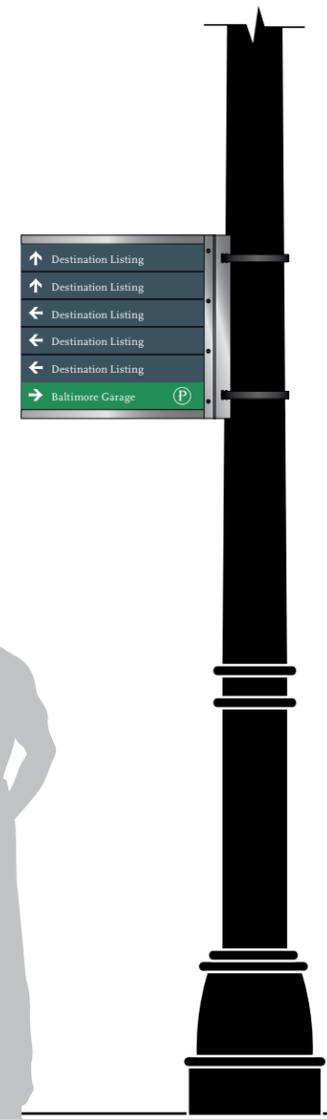
Top View
 SCALE: 1 1/2" = 1'-0"



1 Front View: PDIR.1
 SCALE: 1/2" = 1'-0"



Side View



Back View

- 1. 4.5" OD POLE**
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

- 6. 4" FINIAL**
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

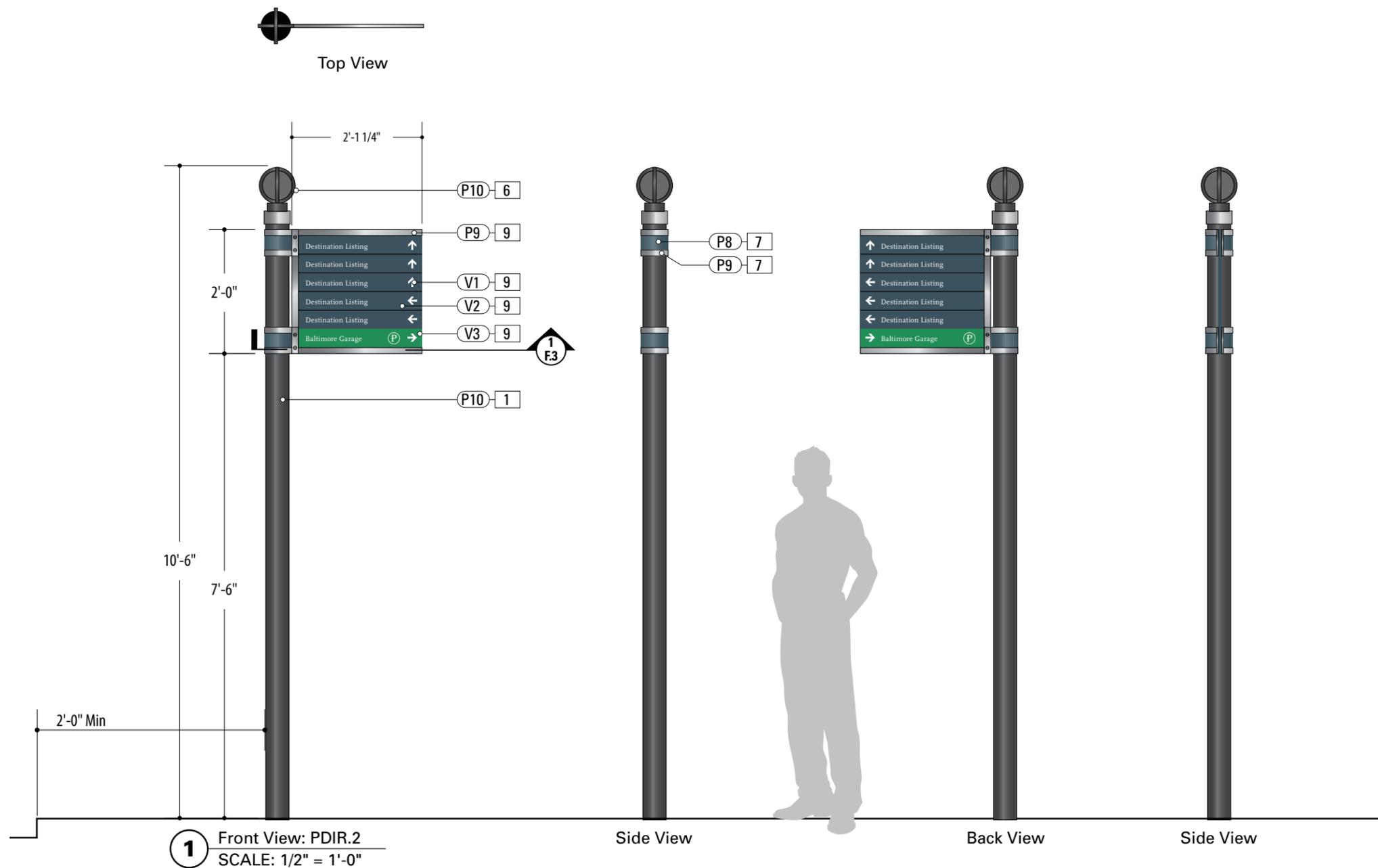
- 7. COLLAR/BRACKET**
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

- 9. 1/4" SIGN PANEL**
 MATERIAL: 1/4" thick Aluminum sheet
 FABRICATION PROCESS: Router Cut
 EDGES: Smooth
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fasten to post with bracket.
COPY PANEL
 GRAPHIC BACKGROUND AND COPY PROCESS:
 3M custom inks print direct to Scotchcal® #3690 with 3M approved UV/Graffiti Vinyl Overlaminates. (See Color Sheet for all color and material specifications)

NOTES

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

ENVIRONMENTS & EXPERIENCES 		CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com		PROJECT NO.
SUBCONSULTANT		SHEET TITLE
DATE 06/30/16	DRAWN BY: LH	Sign Type PDIR.2 Pedestrian Directional
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		
REVISIONS		SHEET NO.
		D.22

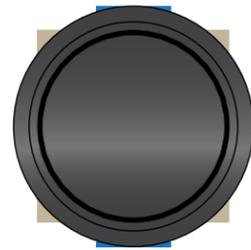


1 Front View: PDIR.2
SCALE: 1/2" = 1'-0"

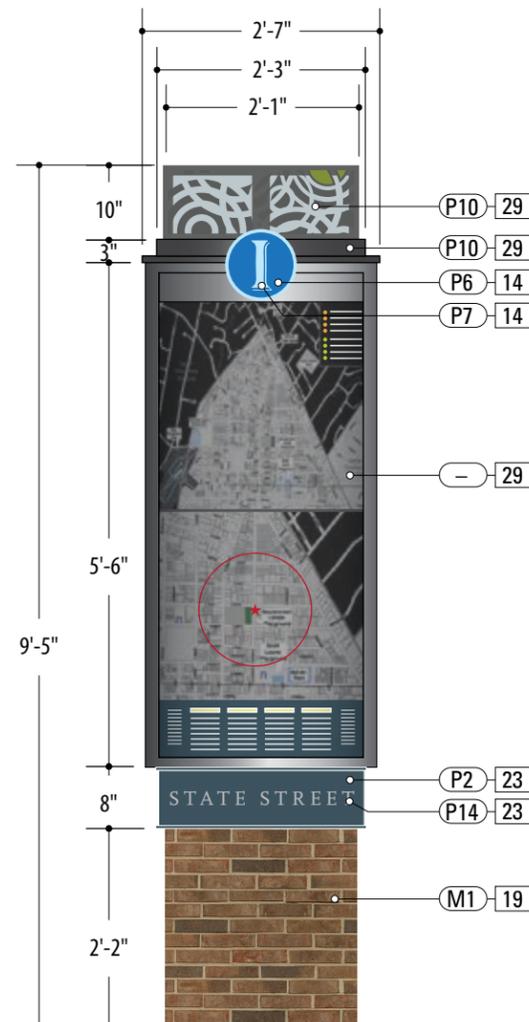
Side View

Back View

Side View



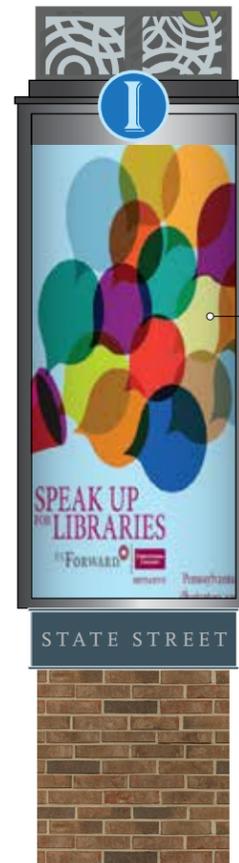
Top View



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



Side View



Back View

14. SIGN PANEL
 MATERIAL: 1/4" thk. alum. panel
 FABRICATION PROCESS: Router Cut
 EDGES: Square, Smooth
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Weld and mechanically fasten to internal poles.

Artwork to be provided by Borough of Media

19. BRICK BASE
 MATERIAL: Partition cinderblock core and brick facade to match streetscape plan, or chosen by client.
 BRICK STYLE: Modular or Standard brick
 BRICK PATTERN: Running brick bond pattern
 FABRICATION PROCESS: Brick with grouting, technique to match streetscape plan, or chosen by client.
 COLOR: Match streetscape plan, or chosen by client

23. BASE CAP
 MATERIAL: 1/4" Aluminum sheet + square tube
 FABRICATION PROCESS: Router cut, Fabricated
 EDGES: Smooth
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mech. Fasten to Base
 LETTERS: 3/8" thk Aluminum. Pin-mount flush to cabinet surface

29. KIOSK SIGN CABINET - Internally Illuminated
 MATERIAL: Fabricated 1/8" thick Aluminum sheet exterior, extruded aluminum internal framing, hinged doors 2 sides with Non-glare UV-resistant acrylic, and locking mechanism for both doors.
 EDGES: Square
 INSIDE FRAME: Beveled edge
 ILLUMINATION: Internally illuminated with LED Tube Lights.
 ARTWORK: Duratrans (backlit display print), mounted in-between 2 sheets of 1/8" thick acrylic, with 3M Diffuser Film 3735-60 White applied to back side of acrylic sheets.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces

- NOTES**
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ENVIRONMENTS & EXPERIENCES		CLIENT / PROJECT
		Media Borough, PA Wayfinding and Signage System
120 North Church Street Suite 208 West Chester, PA 19380 T 484.266.0648 www.merjedesign.com		PROJECT NO.
SUBCONSULTANT		SHEET TITLE
DATE	06/30/16	Sign Type KIOSK.1 Pedestrian Kiosk
DRAWN BY:	LH	
<small>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</small>		SHEET NO.
		D.23

12. 3.5" OD POLE
 MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 3
 (3.5" OD x .216" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: Direct Bury or Plate-to-Plate footer TBD by client.

13. 3" FINIAL
 MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

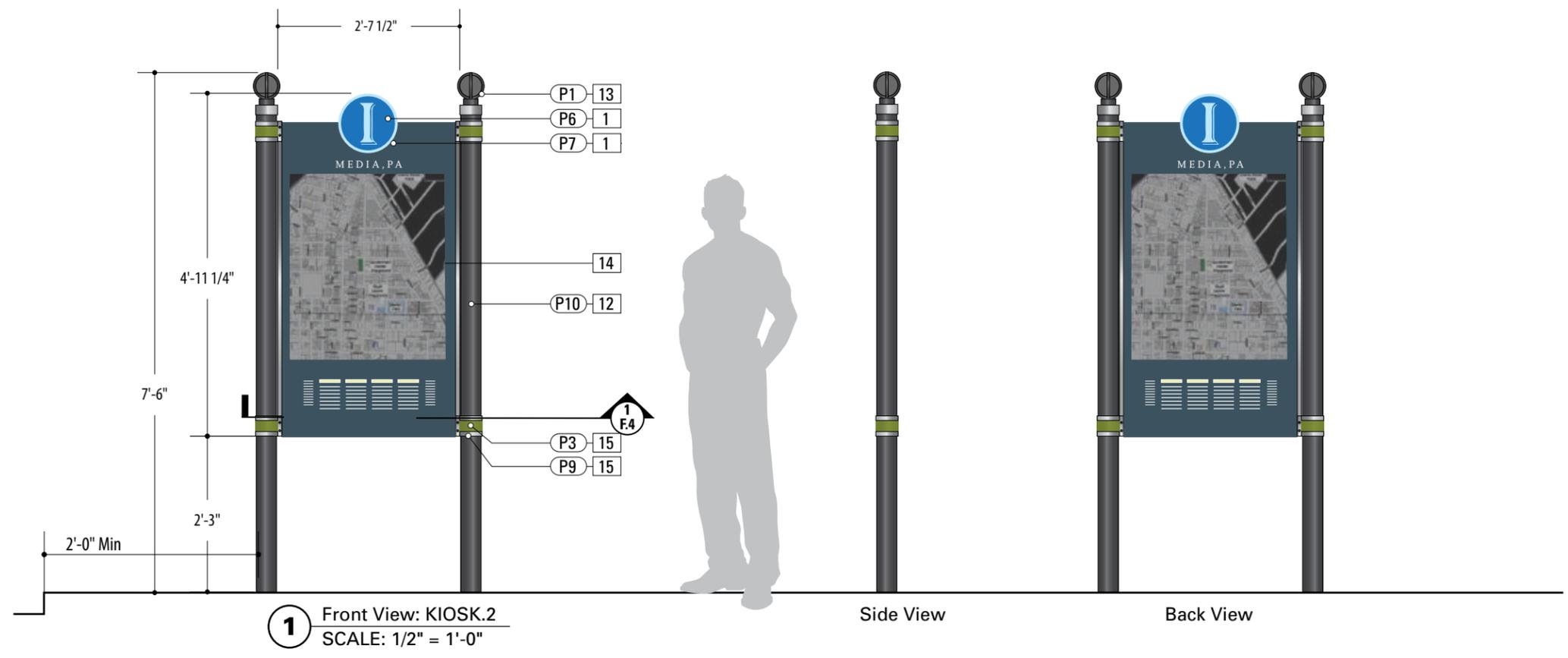
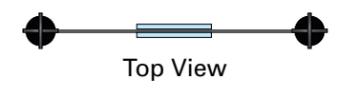
14. SIGN PANEL
 MATERIAL: 1/4" thk. alum. panel
 FABRICATION PROCESS: Router Cut
 EDGES: Square, Smooth
 SURFACE PRINT PROCESS: Zero VOC Powdercoat Primer w/ Water Based Custom Dye Sublimated Ink Transfer Print on Face + Back of Panel
 Clear UV-Resistant, Anti-Graffiti Powdercoat Topcoat, Matte/Satin Finish (Per Manufacturer Capabilities)

15. 3" COLLAR/BRACKET
 MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

- NOTES**
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
 2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
 3. All exposed edges painted to match adjacent face.
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	Media Borough, PA Wayfinding and Signage System
PROJECT NO.	

SUBCONSULTANT		SHEET TITLE
DATE	DRAWN BY:	
06/30/16	LH	Sign Type KIOSK.2 Pedestrian Kiosk
REVISIONS		
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		D.24



12. 3.5" OD POLE

MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 3
 (3.5" OD x .216" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: Direct Bury or Plate-to-Plate footer TBD by client.

13. 3" FINIAL

MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

14. SIGN PANEL

MATERIAL: 1/4" thk. alum. panel
 FABRICATION PROCESS: Router Cut
 EDGES: Square, Smooth
 SURFACE PRINT PROCESS: Zero VOC Powdercoat Primer w/ Water Based Custom Dye Sublimated Ink Transfer Print on Face + Back of Panel
 Clear UV-Resistant, Anti-Graffiti Powdercoat Topcoat, Matte/Satin Finish (Per Manufacturer Capabilities)

15. 3" COLLAR/BACKET

MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

NOTES

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2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
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Media Borough, PA
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PROJECT NO.

SUBCONSULTANT

SHEET TITLE

DATE 06/30/16

DRAWN BY: LH

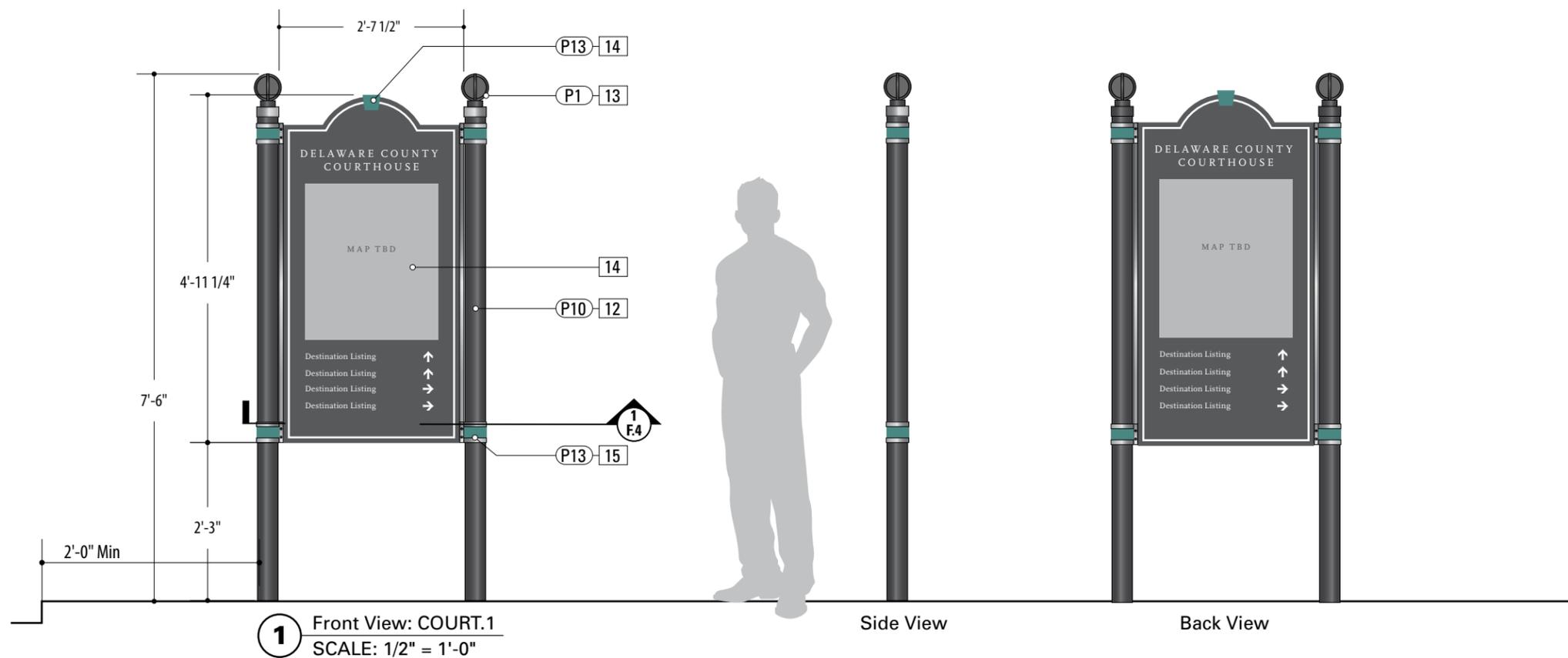
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REVISIONS

Sign Type COURT.1
Courthouse Kiosk

SHEET NO.

D.25



12. 3.5" OD POLE

MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 3
 (3.5" OD x .216" wall)
 FABRICATION PROCESS: Extruded
 EDGES: Smooth
 COLOR: Custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FOOTER: Direct Bury or Plate-to-Plate footer TBD by client.

13. 3" FINIAL

MATERIAL: Custom cast Aluminum Finial.
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

14. SIGN PANEL

MATERIAL: 1/4" thk. alum. panel
 FABRICATION PROCESS: Router Cut
 EDGES: Square, Smooth
 SURFACE PRINT PROCESS: Zero VOC Powdercoat Primer w/ Water Based Custom Dye Sublimated Ink Transfer Print on Face + Back of Panel
 Clear UV-Resistant, Anti-Graffiti Powdercoat Topcoat, Matte/Satin Finish (Per Manufacturer Capabilities)

15. 3" COLLAR/BRACKET

MATERIAL: Custom Aluminum Bracket.
 FABRICATION PROCESS: Extruded
 COLOR: custom, as noted
 SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
 FASTENER: Mechanically fastened to pole, tamper resistant hardware.

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SHEET TITLE

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REVISIONS

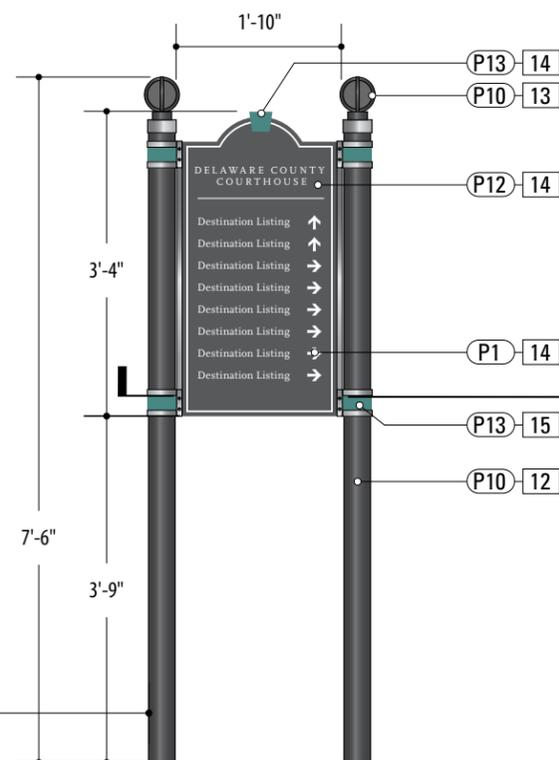
Sign Type COURT.2
Courthouse Pedestrian
Directional

SHEET NO.

D.26



Top View



1 Front View: COURT.2
 SCALE: 1/2" = 1'-0"



Side View



Back View



30. FABRIC BANNER

MATERIAL: Digital Print Banner: 18 oz. opaque white vinyl
BANNER ARTWORK: To be provided by Client.
WARRANTY: 5 years.
CONSTRUCTION: 2 inch pole pockets on top and bottom, secured with double-lock stitching and back-stitching in areas of stress. Side-hems are double-rolled and double lock stitched. Brass-spurred grommets are applied to the 2 inside corners locking the hem and providing security at stress points.
ATTACHMENT: Slide banner pole pockets onto bracket fiberglass rods. Attach flexible plastic tie, or cable, to brass grommet and to Banner Saver™ Pro 2000 bracket (spring loaded wind release brackets), top and bottom.

BANNER BRACKET

PRODUCT: Banner Saver™ Pro 2000 bracket (spring loaded wind release brackets).
MATERIAL: Two-piece cast aluminum base with patented absorption spring. 3/4" removable fiberglass banner arm with tempered aluminum sleeve.
POLE STRAP ATTACHMENT: Match Existing Light Pole Color - Black

31. PERMA BANNER

PRODUCT: Perma-Banner
MATERIAL: 6mm thick Aluminum Panel or
FABRICATION PROCESS: Router cut Trolley Graphic, "State Street" Text applied vinyl.
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fastens to Perma-Banner Pole Mount assembly.
POLE STRAP ATTACHMENT: Match Existing Light Pole Color - Black

NOTES

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CLIENT / PROJECT

Media Borough, PA
 Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

DATE 06/30/16

DRAWN BY: LH

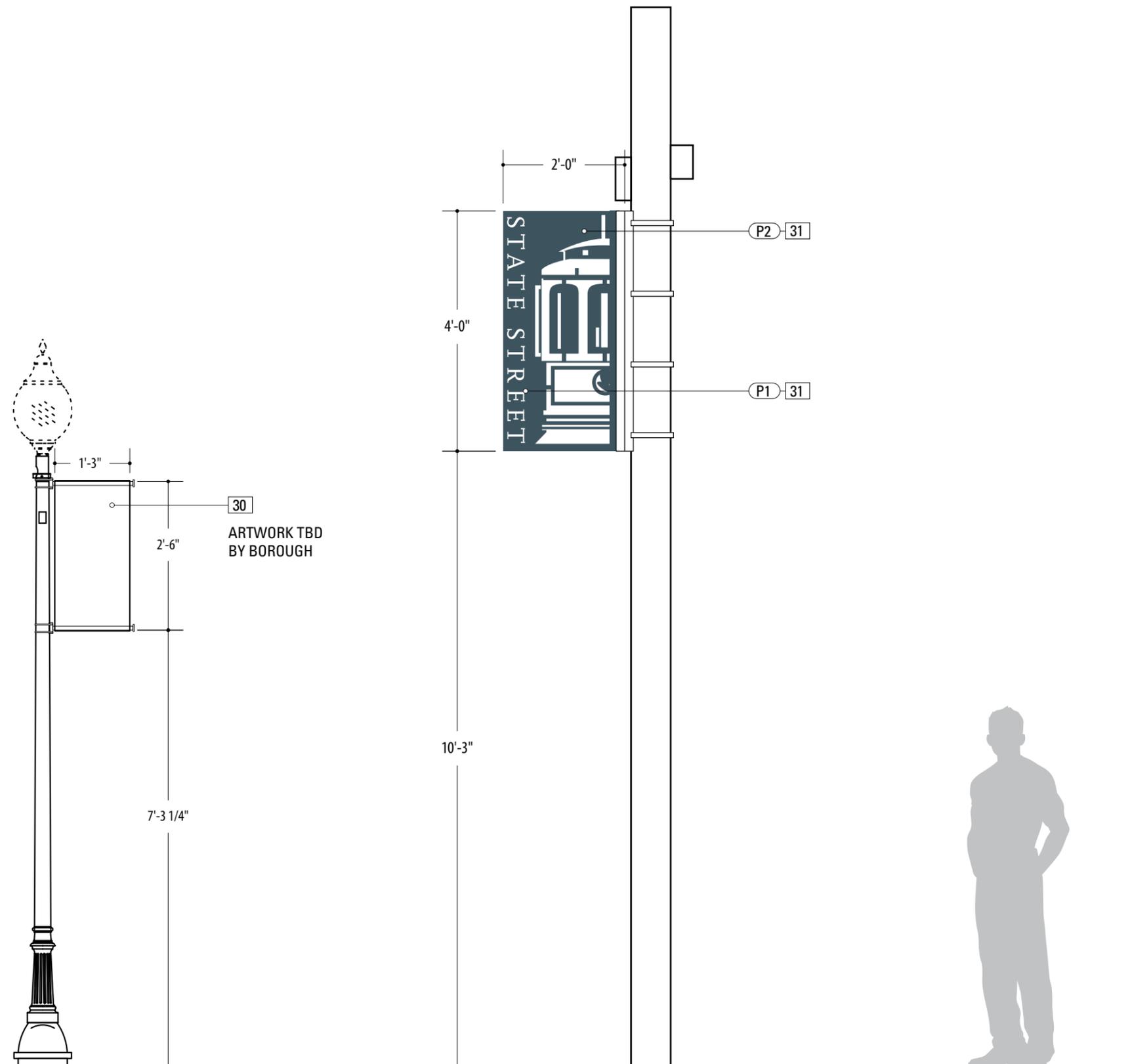
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REVISIONS

Sign Type BANNER.1-2
Banner

SHEET NO.

D.27



1 Front View: BANNER.1
 SCALE: 1/2" = 1'-0"

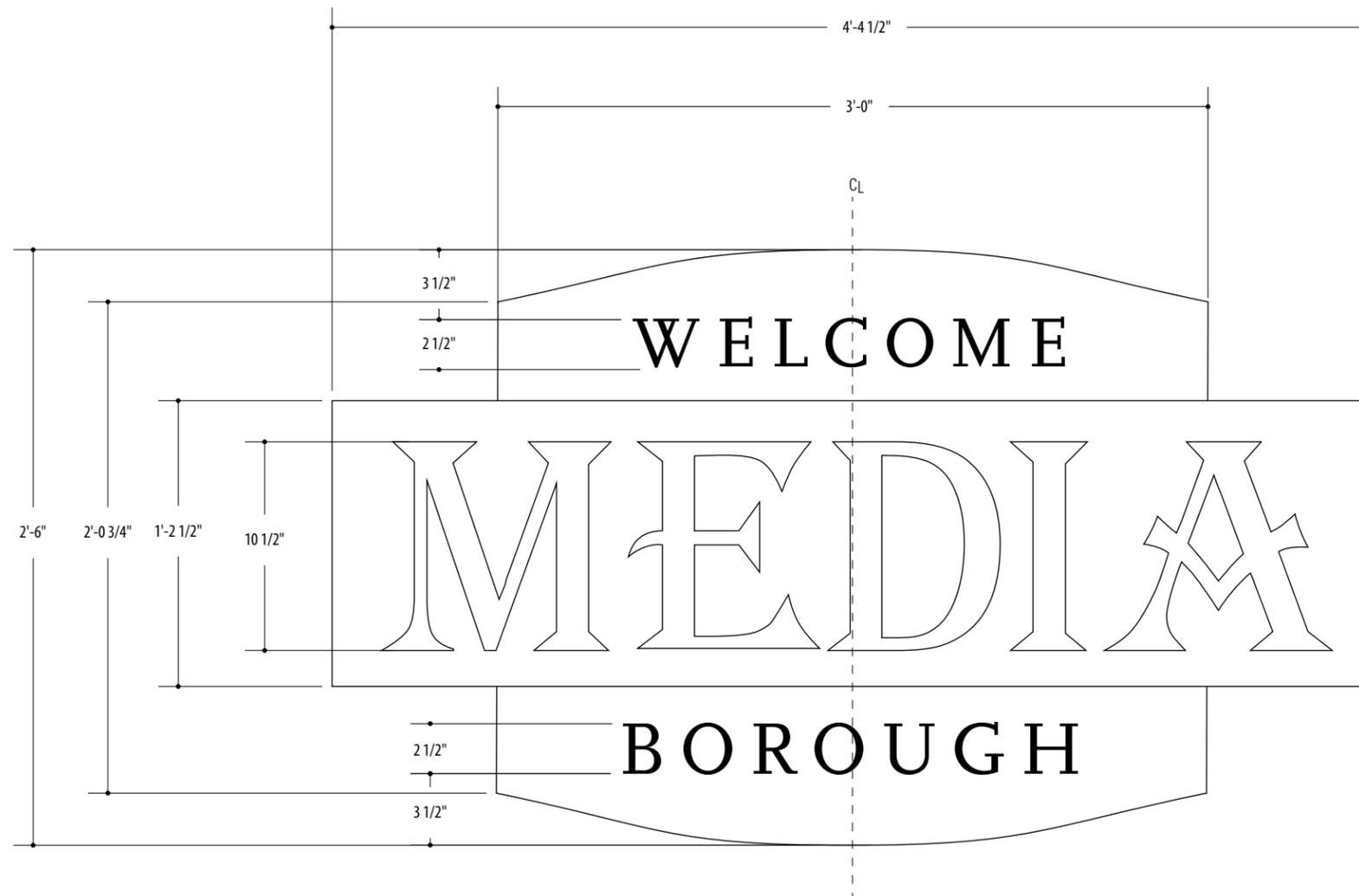
2 Front View: BANNER.2
 SCALE: 1/2" = 1'-0"

30
 ARTWORK TBD
 BY BOROUGH

P2 **31**

P1 **31**

E | Graphic Layouts



1 Graphic Layout: GATE.2
SCALE: 1 1/2" = 1'-0"

SPECIFICATIONS

SIGN PANEL LAYOUTS:

NOTES:

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

NOTES:

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

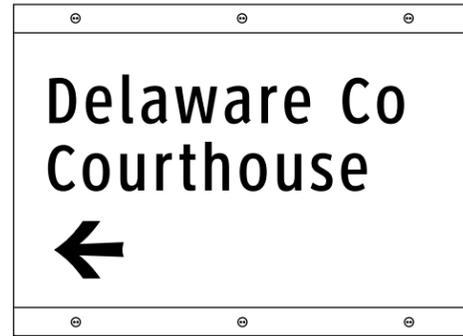
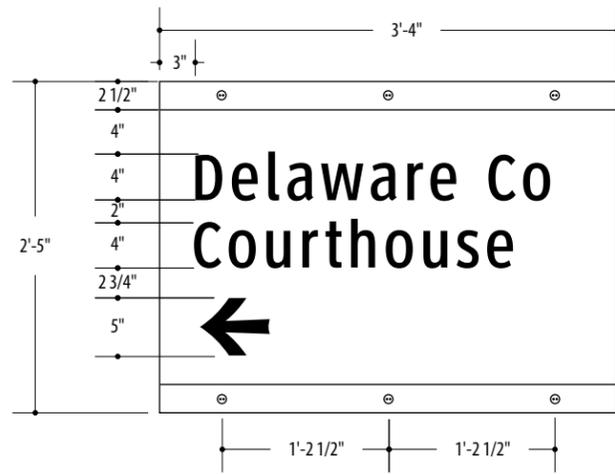
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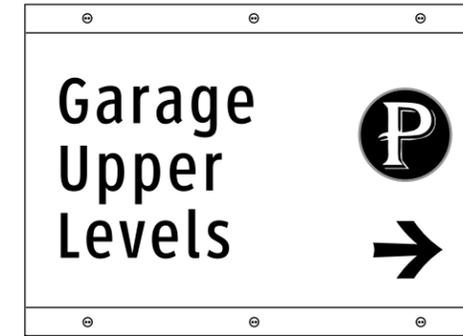
DATE 06/30/16	CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
DRAWN BY: LH	
<small>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</small>	PROJECT NO.
	SHEET TITLE GATE.2 Layout Drawings
	SHEET NO.
REVISIONS	E.1



Location 107



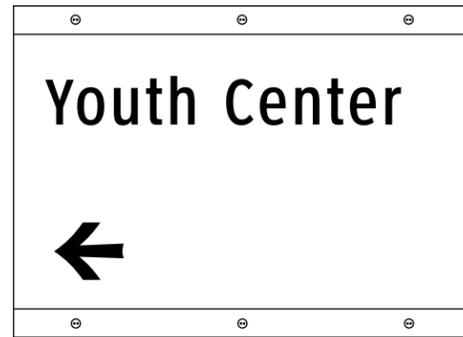
Location 125



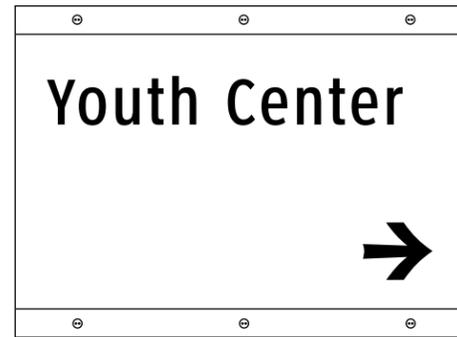
Location 116



Location 126



Location 100



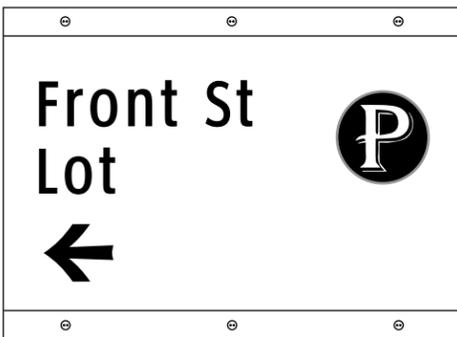
Location 101



Location 120



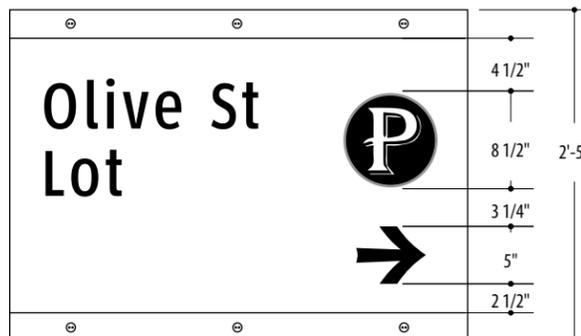
Location 123



Location 105



Location 106



Location 109

1 Graphic Layout: VDIR.1
SCALE: 3/4" = 1'-0"

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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

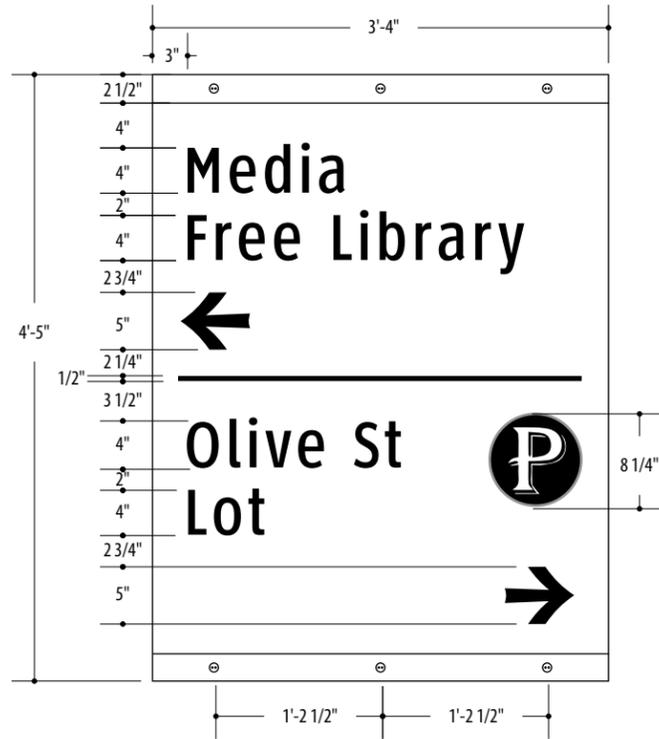
- NOTES:
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
 2. Welds: All welds shall be ground smooth, paint all seams.
 3. Hardware: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

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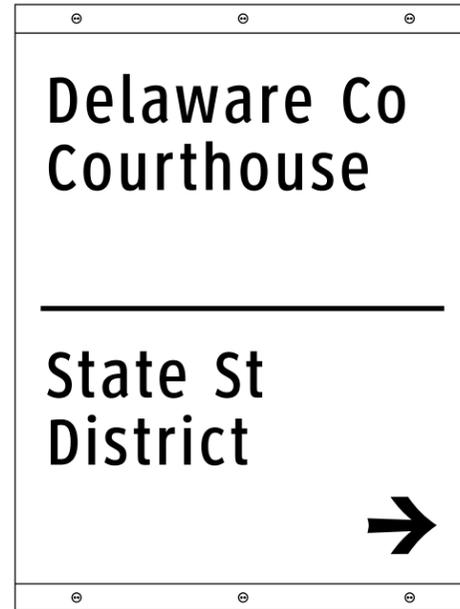
DATE	06/30/16	CLIENT / PROJECT
DRAWN BY:	LH	
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REVISIONS		SHEET TITLE
		VDIR.1 Graphic Layouts
		SHEET NO.
		E.2



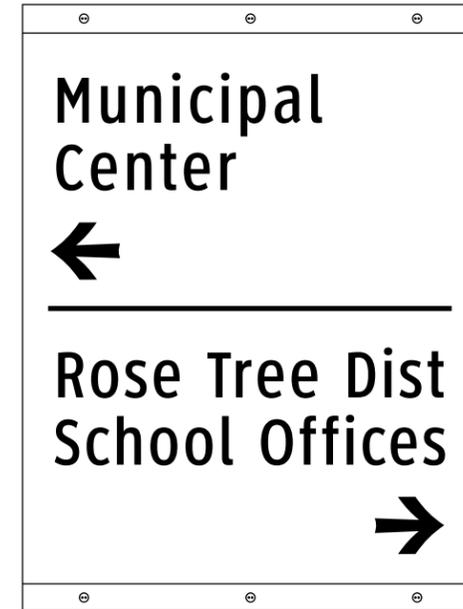
1 Graphic Layout: VDIR.2
SCALE: 3/4" = 1'-0"



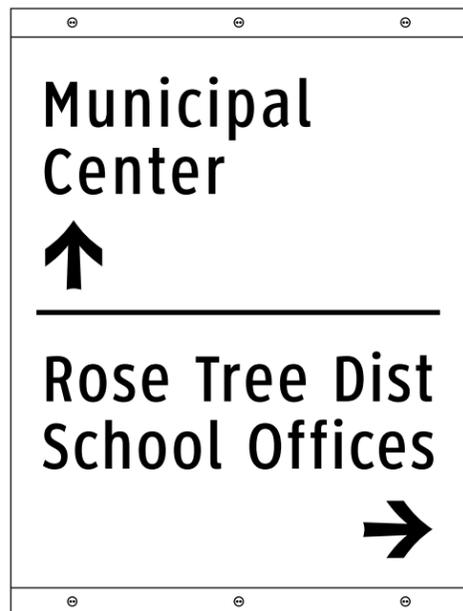
Location 104



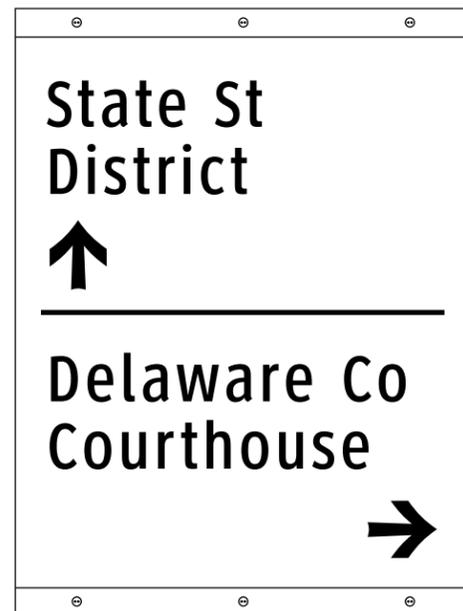
Location 124



Location 102



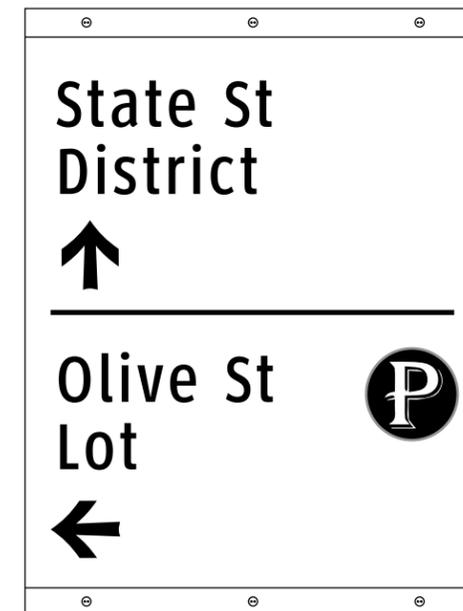
Location 103



Location 110



Location 127



Location 108

SPECIFICATIONS

SIGN PANEL LAYOUTS:

- NOTES:
- Messages shown are NOT actual messages. Provided for illustrative purposes only.
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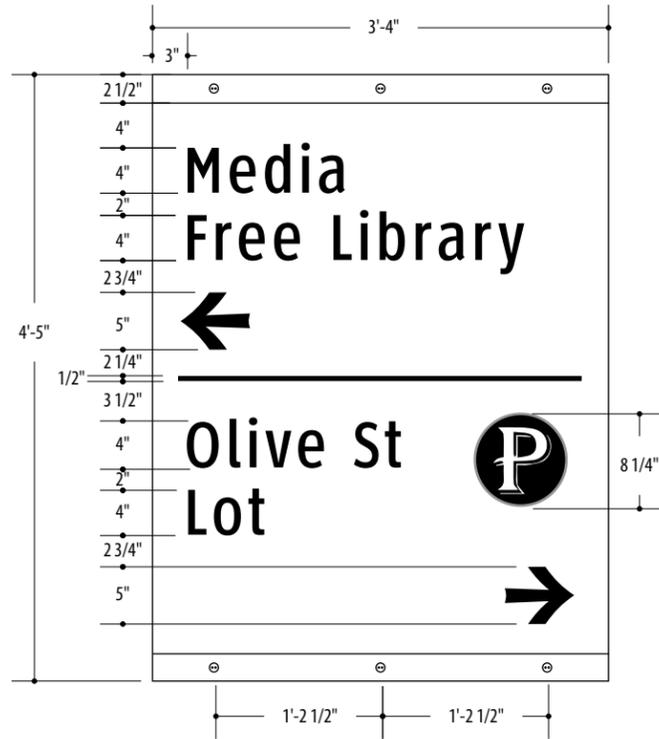
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 3. Hardware: All exposed hardware shall be tamper proof fasteners.
 4. All exposed edges painted to match adjacent face.

ENVIRONMENTS & EXPERIENCES

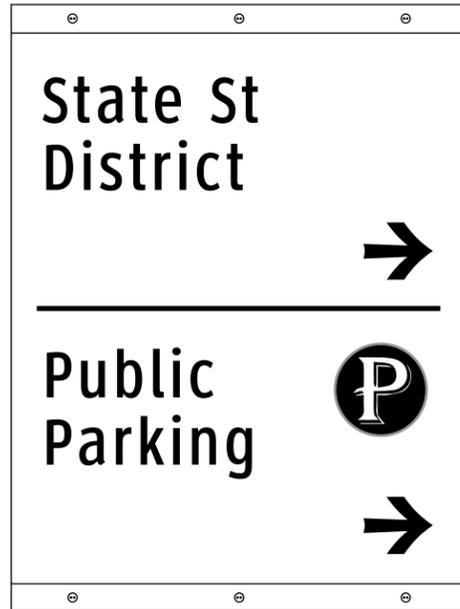
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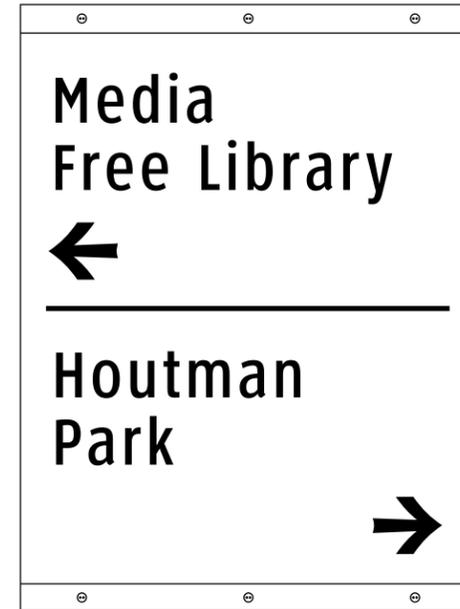
DATE: 06/30/16	CLIENT / PROJECT: Media Borough, PA Wayfinding and Signage System
DRAWN BY: LH	PROJECT NO.:
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.	SHEET TITLE: VDIR.2 Graphic Layouts
REVISIONS:	SHEET NO.:
	E.3



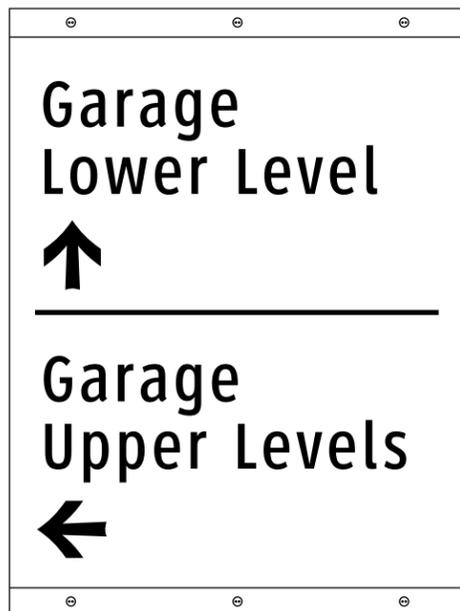
1 Graphic Layout: VDIR.2
SCALE: 3/4" = 1'-0"



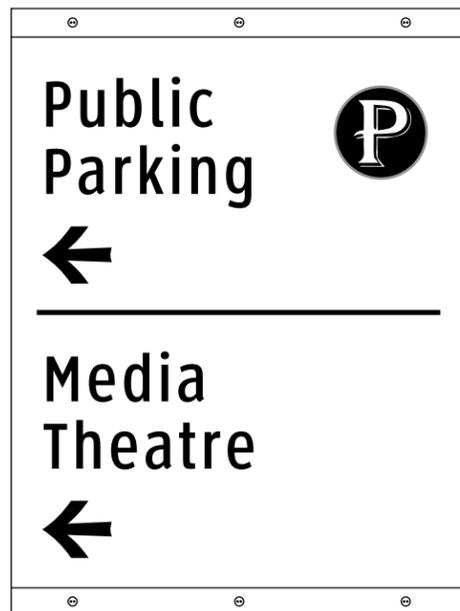
Location 112



Location 115



Location 117



Location 129

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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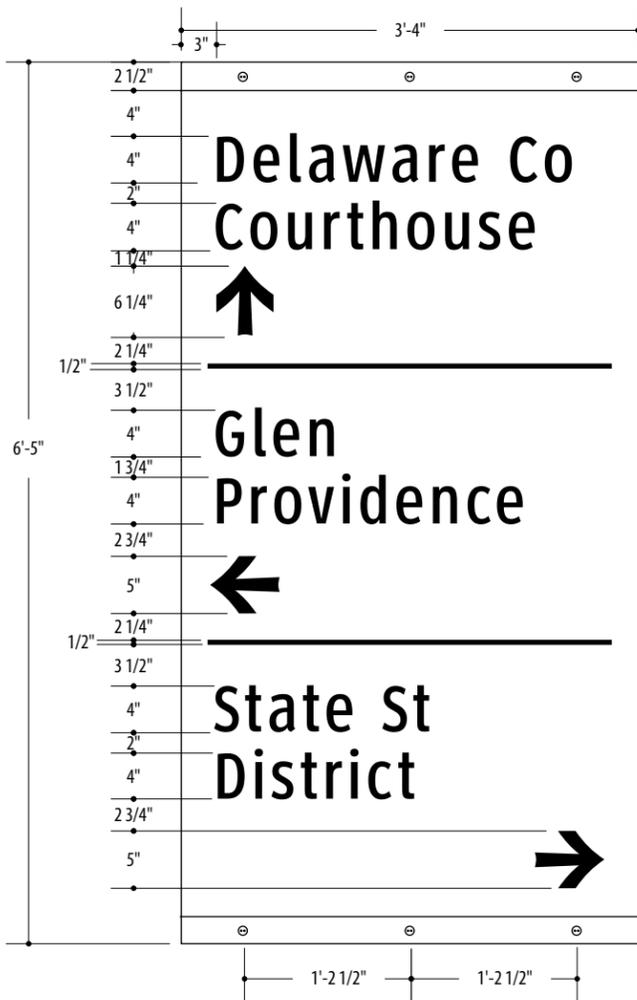
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ENVIRONMENTS & EXPERIENCES

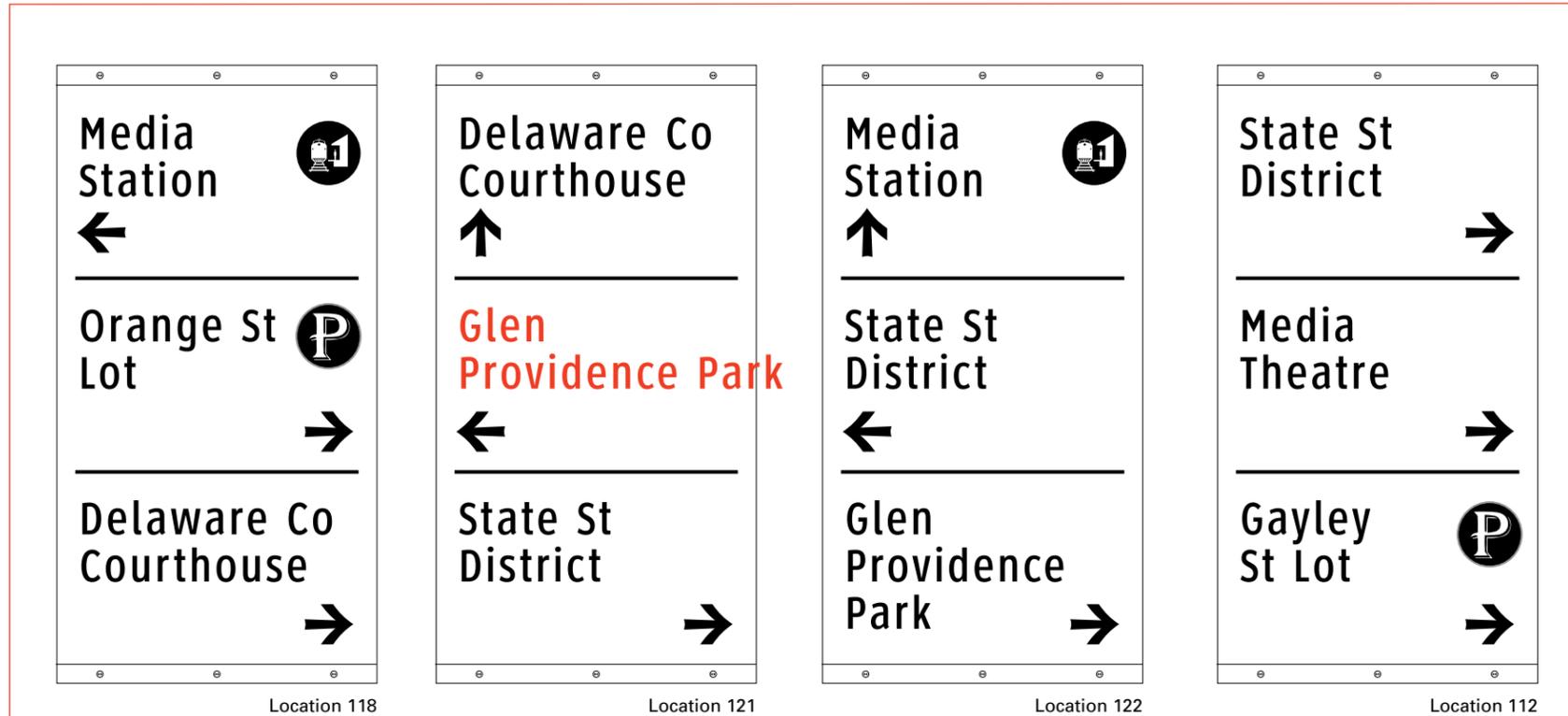
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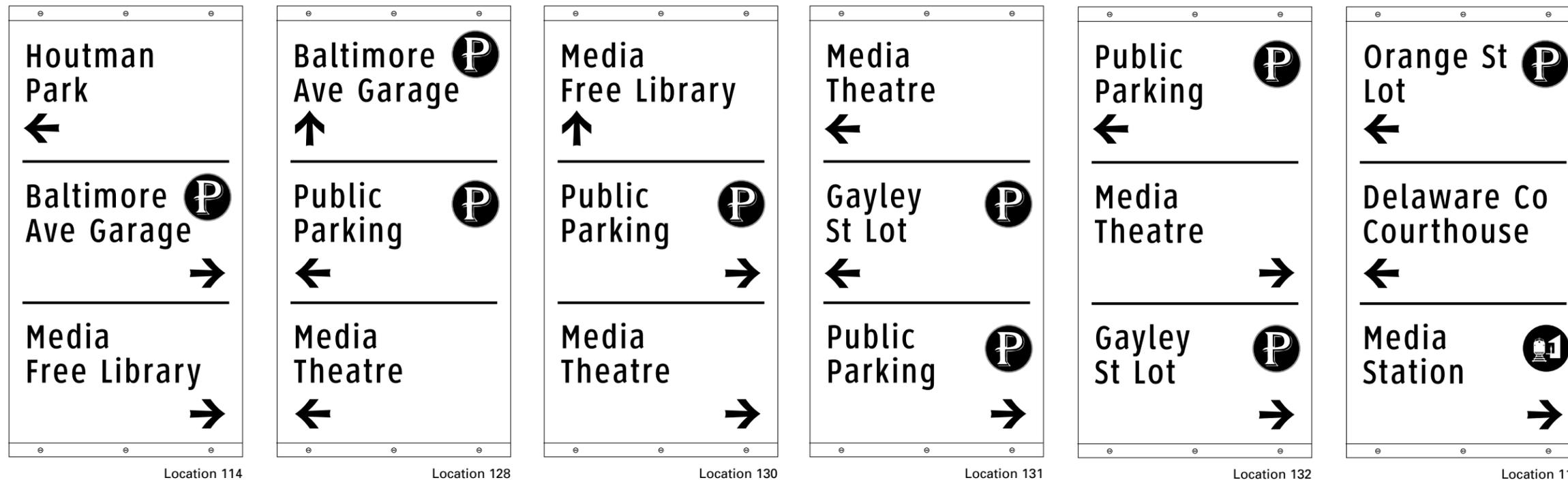
DATE 06/30/16	CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
DRAWN BY: LH	
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	SHEET TITLE VDIR.2 Graphic Layouts
REVISIONS	SHEET NO. E.4



1 Graphic Layout: VDIR.3
SCALE: 3/4" = 1'-0"



** Scaled at 75%



SPECIFICATIONS

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DRAWN BY: LH

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

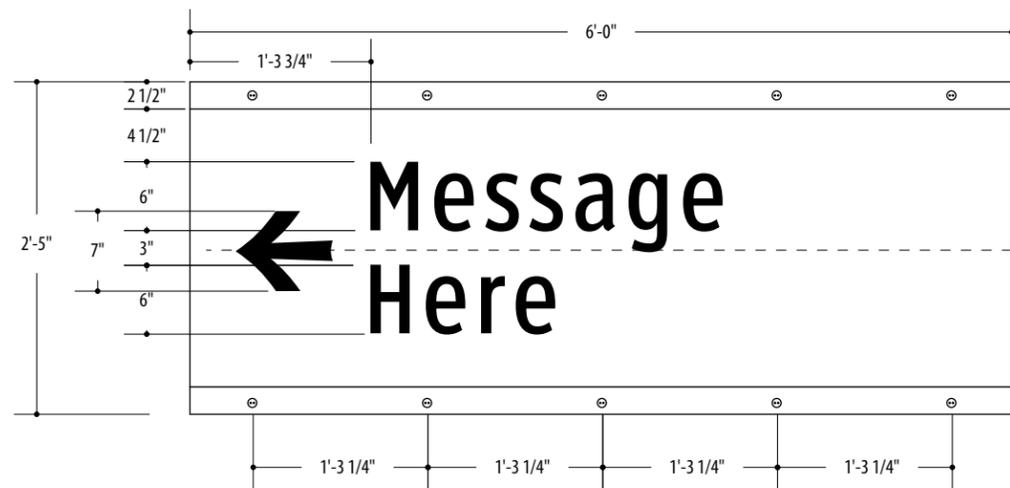
PROJECT NO.

SHEET TITLE

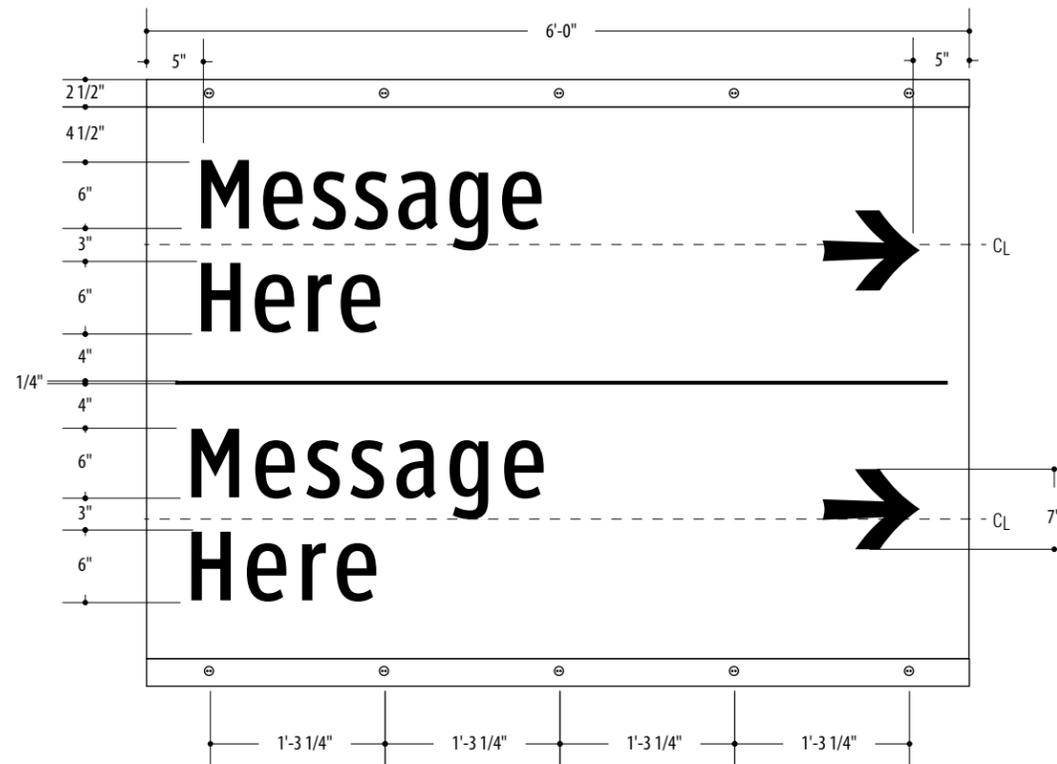
VDIR.3
Graphic Layouts

SHEET NO.

E.5



1 Graphic Layout: VDIR.4
SCALE: 3/4" = 1'-0"



1 Graphic Layout: VDIR.5
SCALE: 3/4" = 1'-0"

SPECIFICATIONS

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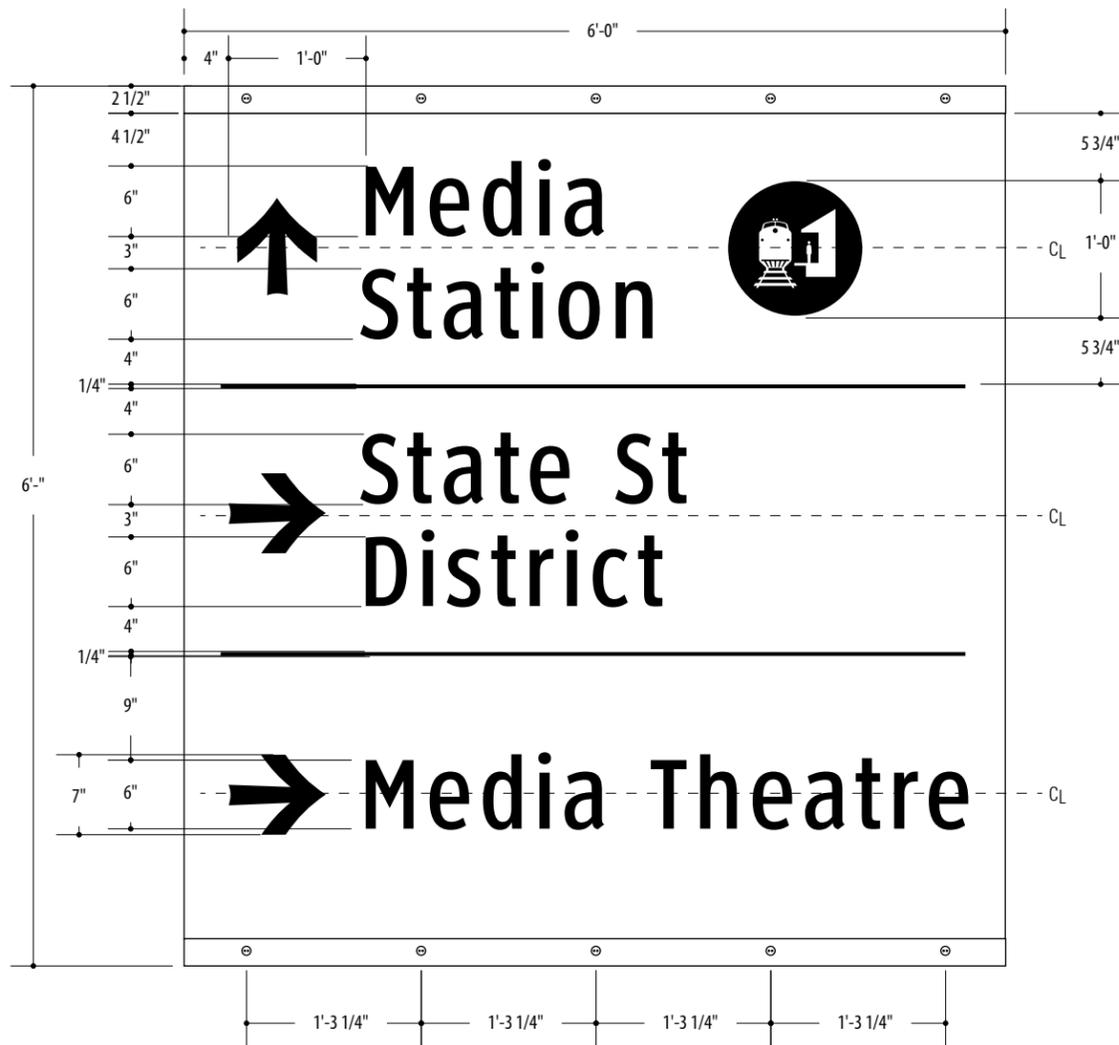
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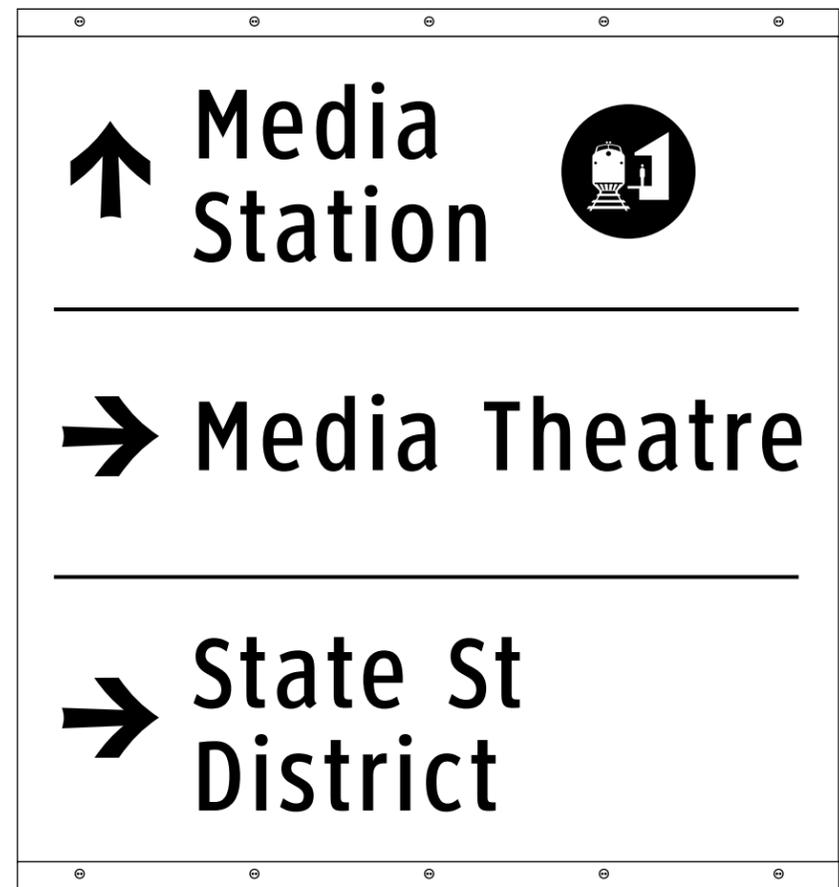
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DATE 06/30/16	CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
DRAWN BY: LH	
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REVISIONS	SHEET TITLE VDIR.4-5 Graphic Layouts
	SHEET NO. E.6



1 Graphic Layout: VDIR.6
SCALE: 3/4" = 1'-0"

Location 207



Location 203

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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DATE 06/30/16

CLIENT / PROJECT

DRAWN BY: LH

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Wayfinding and Signage System

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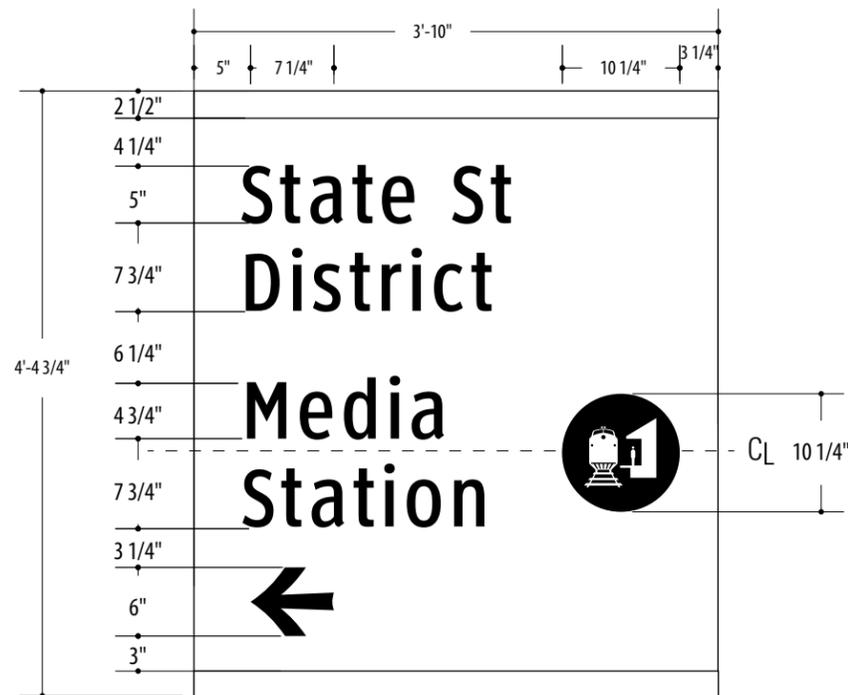
PROJECT NO.

SHEET TITLE

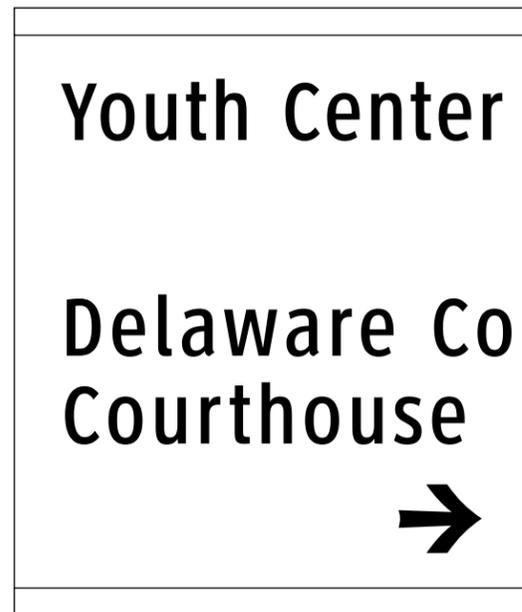
VDIR.6
Graphic Layouts

REVISIONS

SHEET NO.



1 Graphic Layout: VDIR.7
SCALE: 3/4" = 1'-0"



Location 201



Location 204



Location 205

SPECIFICATIONS

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NOTES:

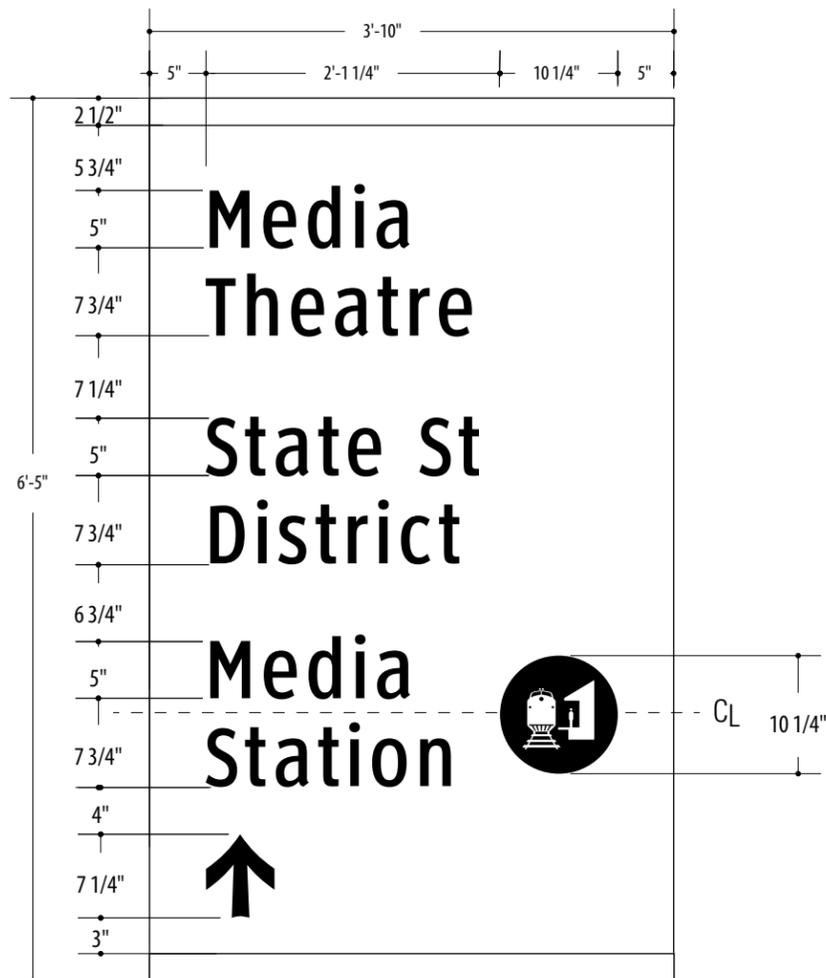
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DATE 06/30/16	CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
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<small>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</small>	
REVISIONS	PROJECT NO.
	SHEET TITLE VDIR.7 Graphic Layouts
	SHEET NO. E.8



1 Graphic Layout: VDIR.8
SCALE: 3/4" = 1'-0"

Rose Tree District
School Offices

Municipal Center

➔

Location 200

Media Theatre

State St District

Media Station 

⬆

Location 202

Public Parking 

State St District

Media Station 

⬅

Location 206

SPECIFICATIONS

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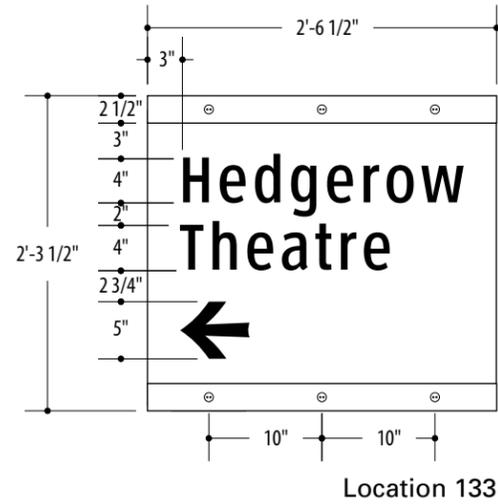
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ENVIRONMENTS & EXPERIENCES

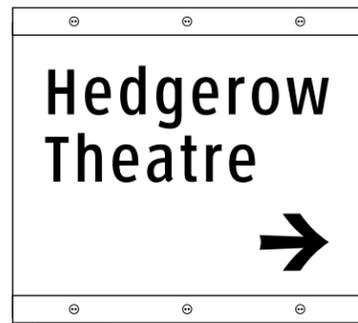
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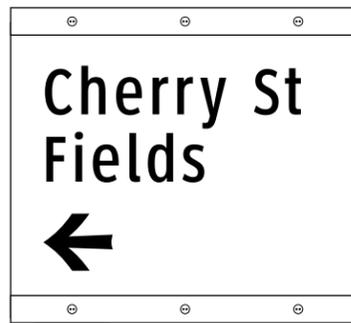
DATE 06/30/16	CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
DRAWN BY: LH	
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	SHEET TITLE VDIR.8 Graphic Layouts
REVISIONS	SHEET NO. E.9



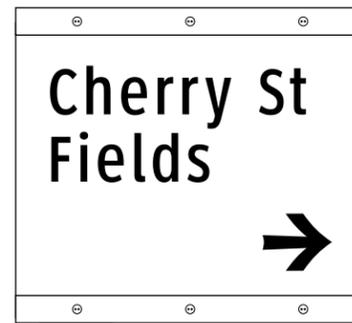
Location 133



Location 134



Location 135



Location 136

1 Graphic Layout: RES.1
SCALE: 3/4" = 1'-0"

SPECIFICATIONS

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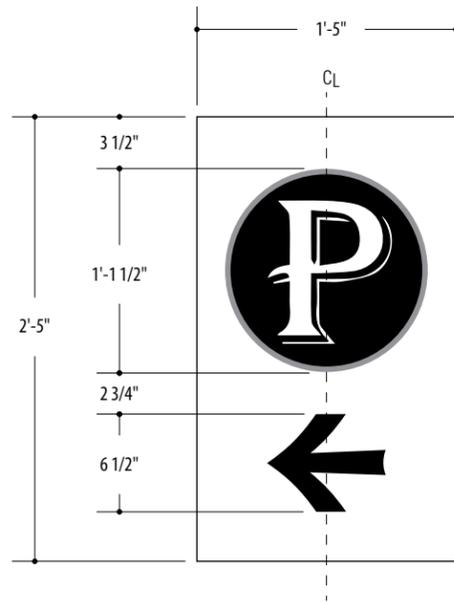
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ENVIRONMENTS & EXPERIENCES

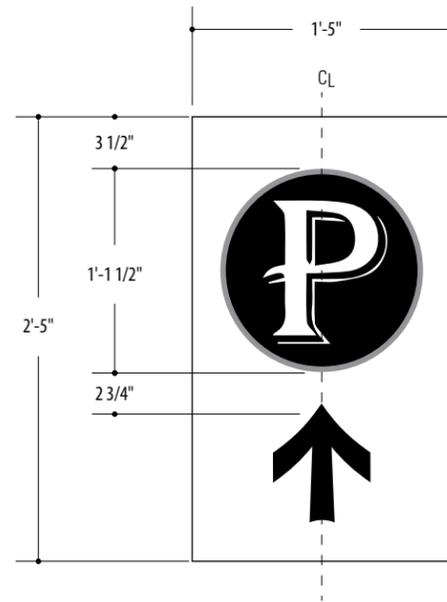
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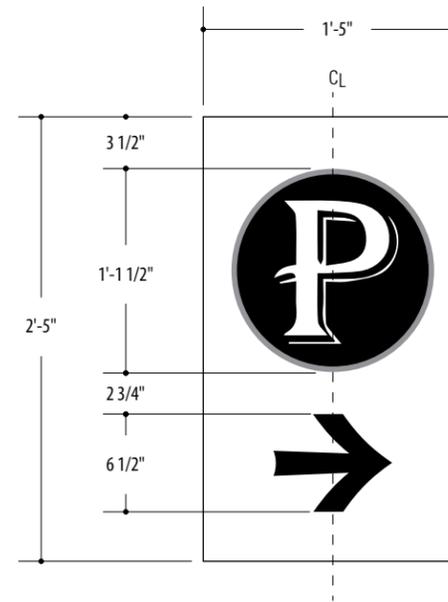
DATE 06/30/16	CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
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REVISIONS	SHEET TITLE RES.1 Graphic Layouts
	SHEET NO. E.10



1 Graphic Layout: PARK.1
SCALE: 1" = 1'-0"



2 Graphic Layout: PARK.1
SCALE: 1" = 1'-0"



3 Graphic Layout: PARK.1
SCALE: 1" = 1'-0"

SPECIFICATIONS

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REVISIONS	SHEET TITLE PARK.1 Graphic Layouts
	SHEET NO. E.11

SPECIFICATIONS

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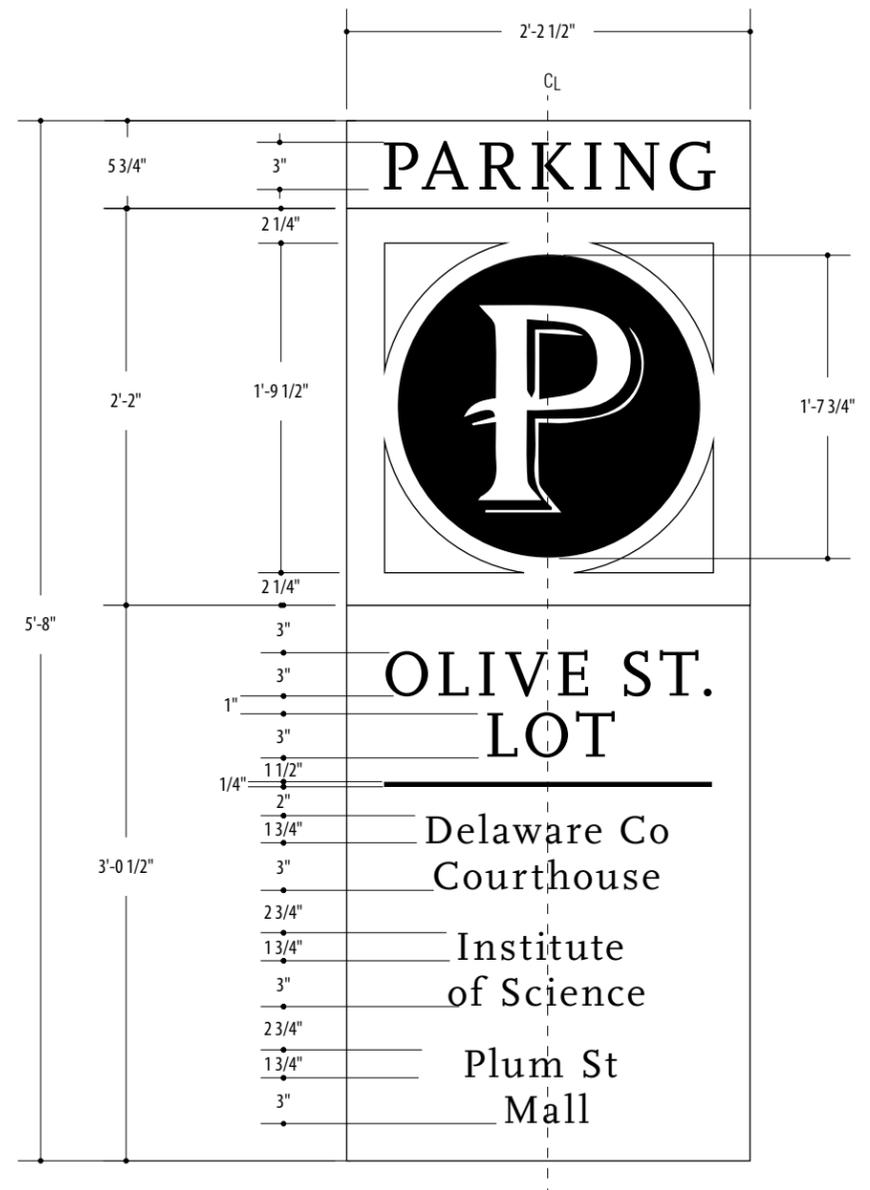
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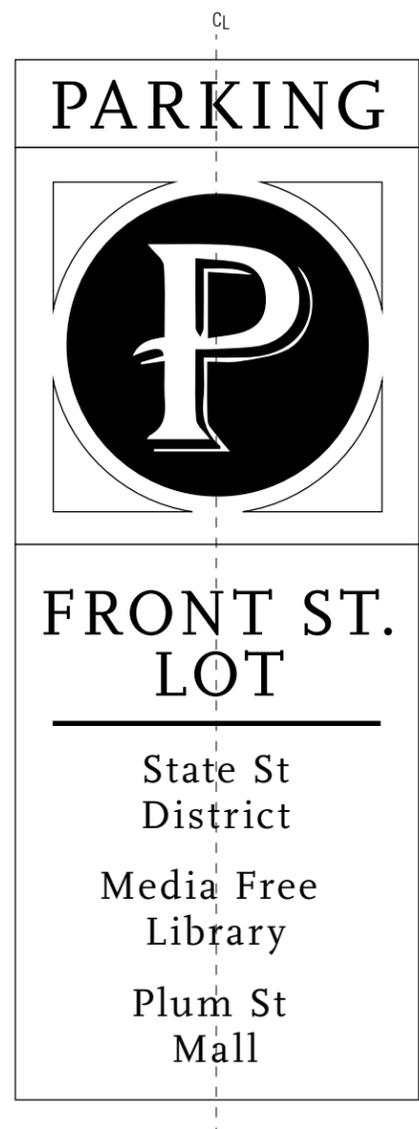
DATE	06/30/16	CLIENT / PROJECT	Media Borough, PA Wayfinding and Signage System
DRAWN BY:	LH	PROJECT NO.	
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REVISIONS		SHEET NO.	
			E.12



1 Graphic Layout: PARK.2
SCALE: 1" = 1'-0"

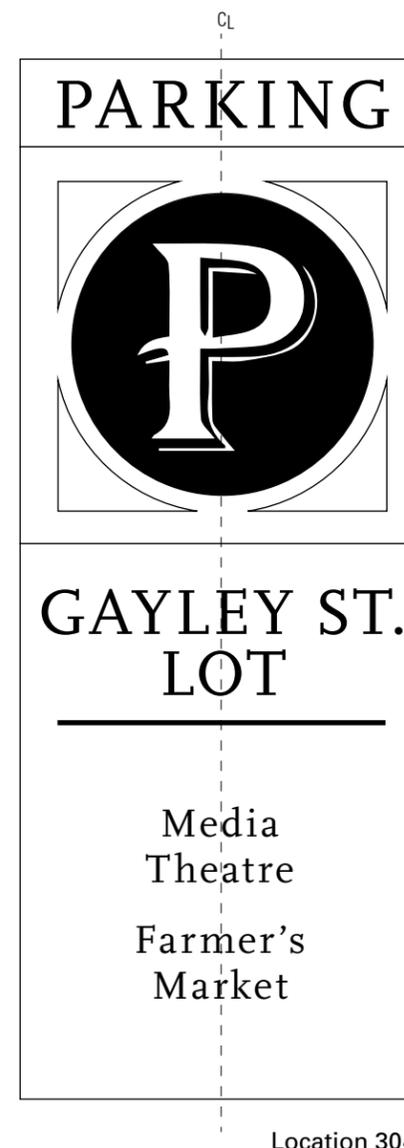
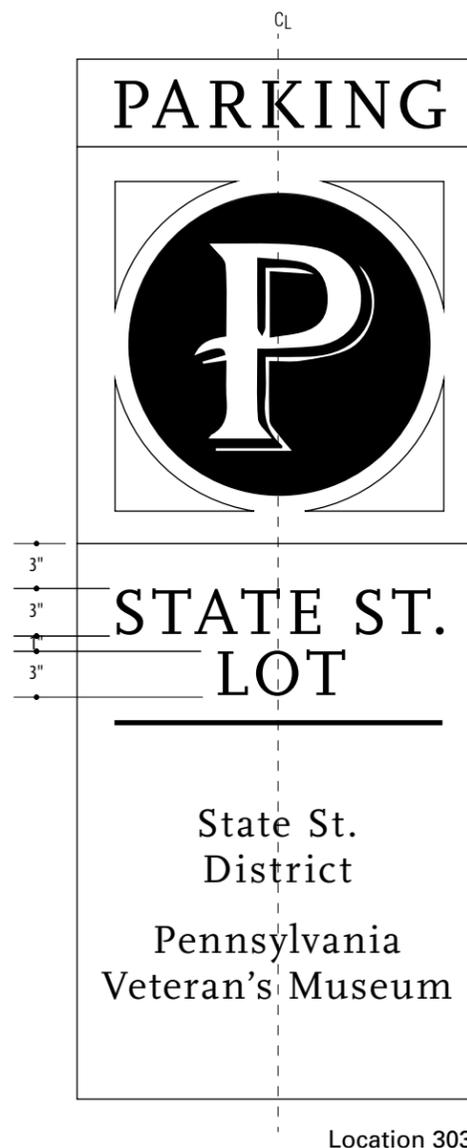
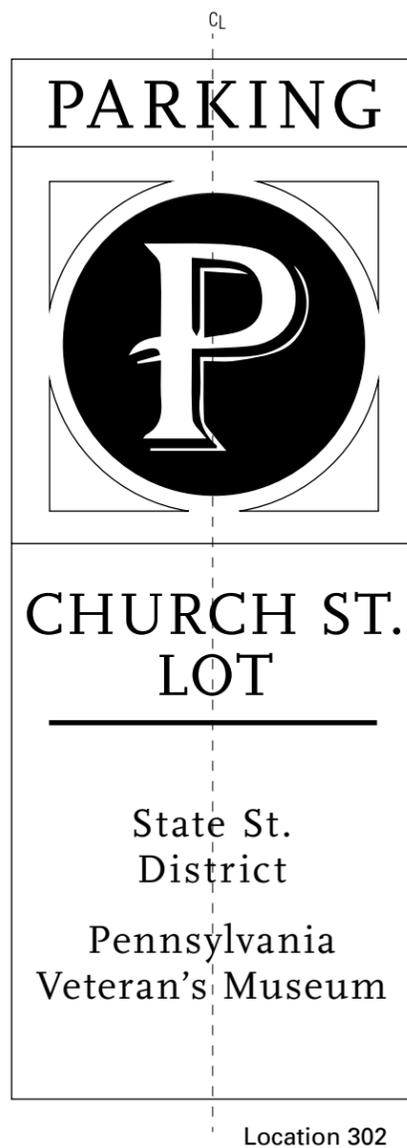
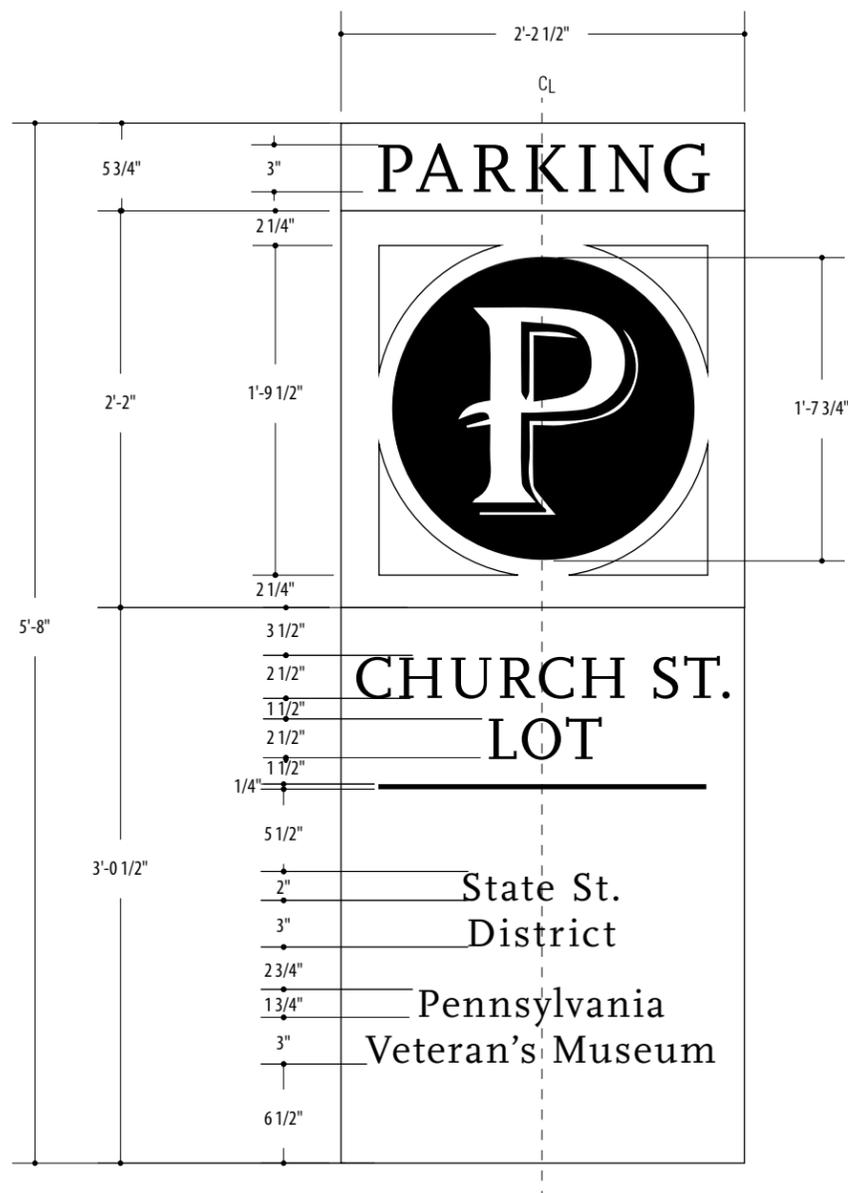


Location 300



Location 301

SPECIFICATIONS



1 Graphic Layout: PARK.2
SCALE: 1" = 1'-0"

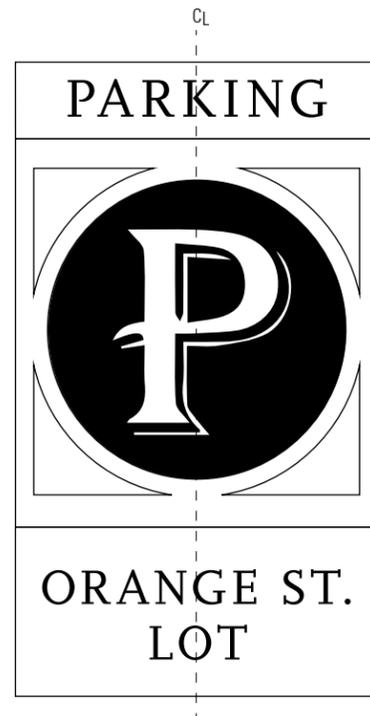
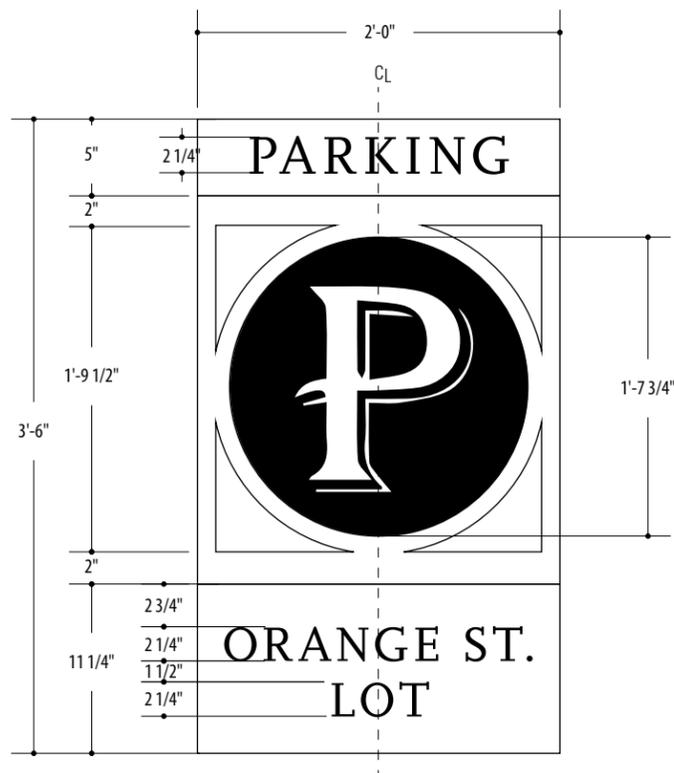
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DATE	06/30/16	CLIENT / PROJECT	Media Borough, PA Wayfinding and Signage System
DRAWN BY:	LH	PROJECT NO.	
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REVISIONS		SHEET NO.	
			E.13



Location 306

1 Graphic Layout: PARK.3
SCALE: 1" = 1'-0"

SPECIFICATIONS

SIGN PANEL LAYOUTS:

NOTES:

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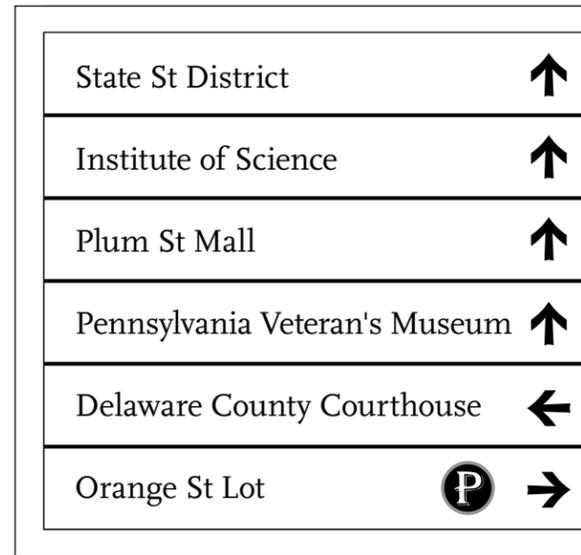
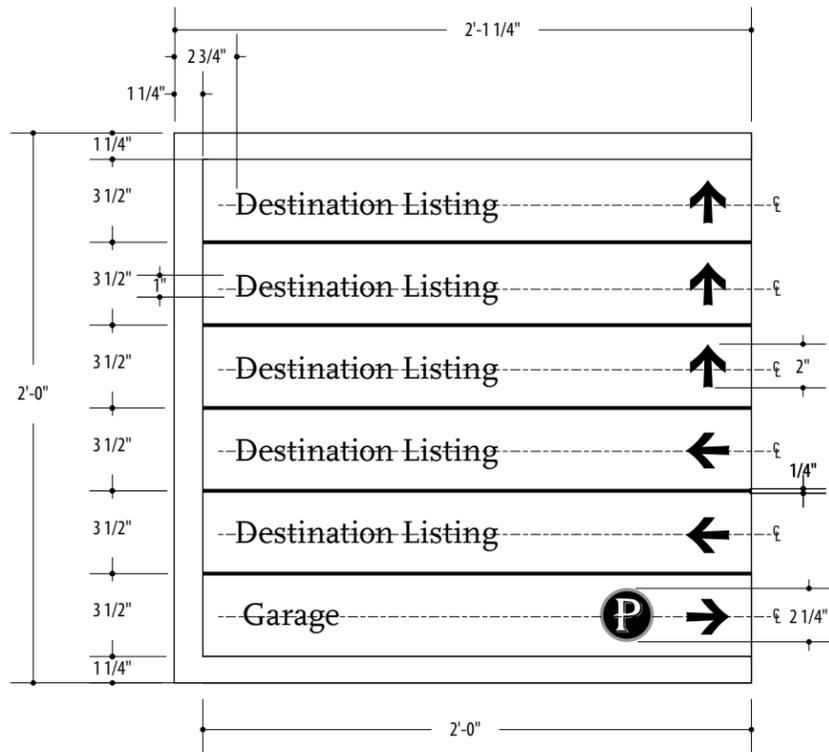
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ENVIRONMENTS & EXPERIENCES

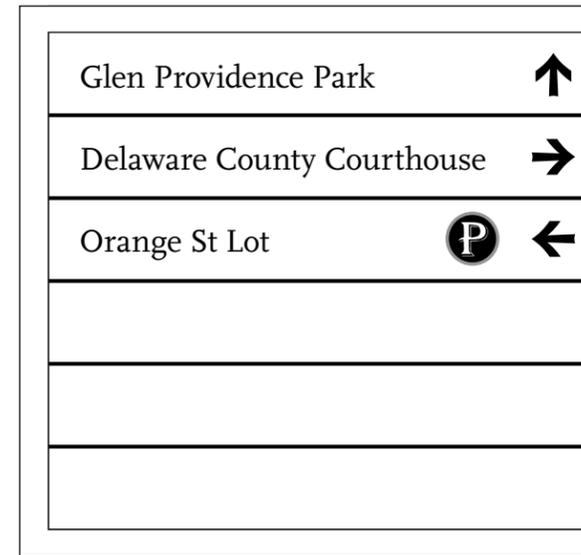
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DATE 06/30/16	CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
DRAWN BY: LH	
<small>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</small>	PROJECT NO.
	SHEET TITLE PARK.3 Graphic Layout
	SHEET NO. E.14
REVISIONS	

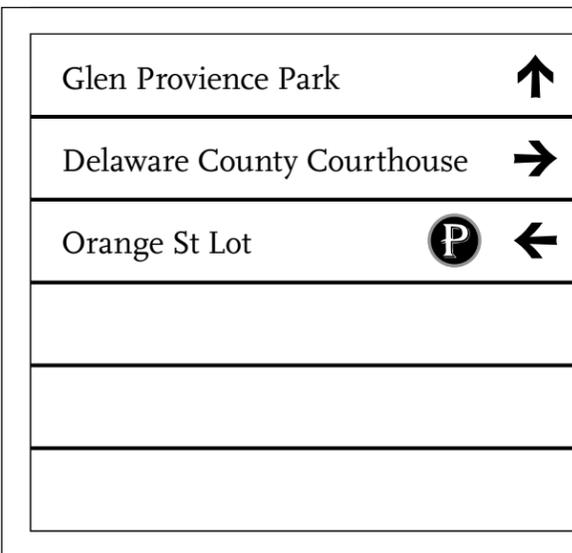


Location 500
Side A

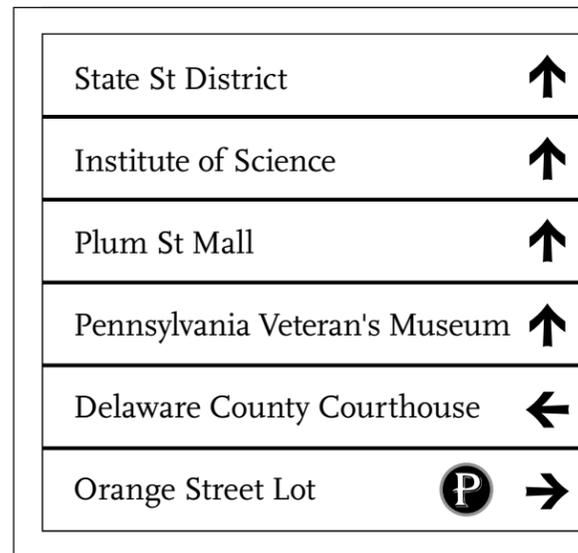


Location 500
Side B

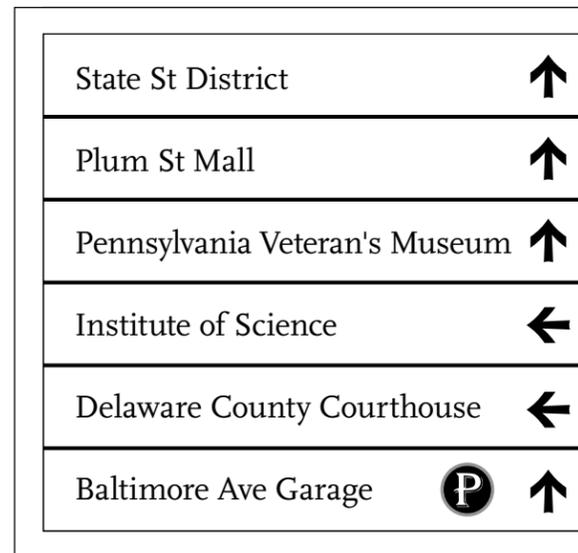
1 Graphic Layout: PDIR.1 & 2
SCALE: 1 1/2" = 1'-0"



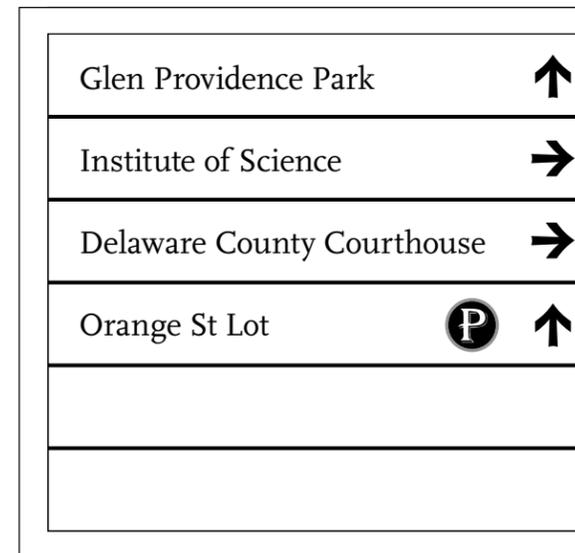
Location 501
Side A



Location 501
Side B



Location 502
Side A



Location 502
Side B

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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DATE	06/30/16	CLIENT / PROJECT	Media Borough, PA Wayfinding and Signage System
DRAWN BY:	LH	PROJECT NO.	
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.		SHEET TITLE	PDIR.1-2 Graphic Layouts
REVISIONS		SHEET NO.	E.15

Glen Providence Park	↑
Institute of Science	→
Delaware County Courthouse	→
Orange St Lot	P ↑

Location 503
Side A

State St District	↑
Plum St Mall	↑
Pennsylvania Veteran's Museum	↑
Institute of Science	←
Delaware County Courthouse	←
Baltimore Ave Garage	P ↑

Location 503
Side B

Plum St Mall	↑
Pennsylvania Veteran's Museum	↑
Upper Providence Free Library	↑
Media Presbyterian Church	↑
Delaware County Courthouse	←
Baltimore Ave Garage	P ↑

Location 504
Side A

Institute of Science	↑
Glen Providence Park	↑
Delaware County Courthouse	→
Orange Street Lot	P ↑

Location 504
Side B

Destination Listing	↑
Destination Listing	↑
Destination Listing	↑
Destination Listing	←
Destination Listing	←
Garage	P →

Location 520
Side A

Destination Listing	↑
Destination Listing	↑
Destination Listing	↑
Destination Listing	←
Destination Listing	←
Garage	P →

Location 520
Side B

Destination Listing	↑
Destination Listing	↑
Destination Listing	↑
Destination Listing	←
Destination Listing	←
Garage	P →

Location 521
Side A

Destination Listing	↑
Destination Listing	↑
Destination Listing	↑
Destination Listing	←
Destination Listing	←
Garage	P →

Location 521
Side B

SPECIFICATIONS

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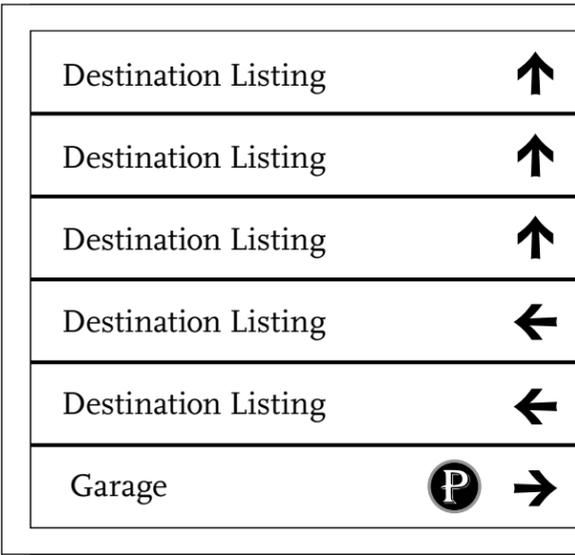
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ENVIRONMENTS & EXPERIENCES

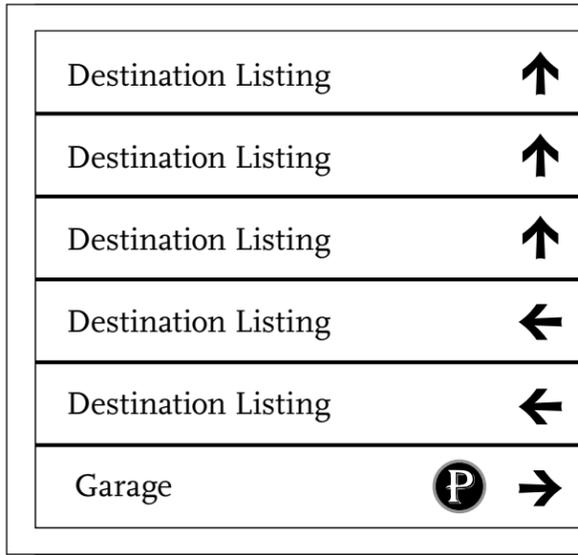
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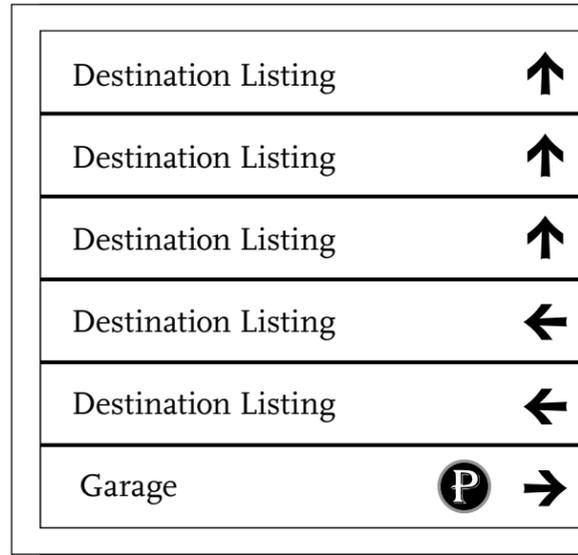
DATE: 06/30/16	CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
DRAWN BY: LH	
<small>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</small>	
REVISIONS	PROJECT NO.
	SHEET TITLE PDIR.1-2 Graphic Layouts
	SHEET NO. E.16



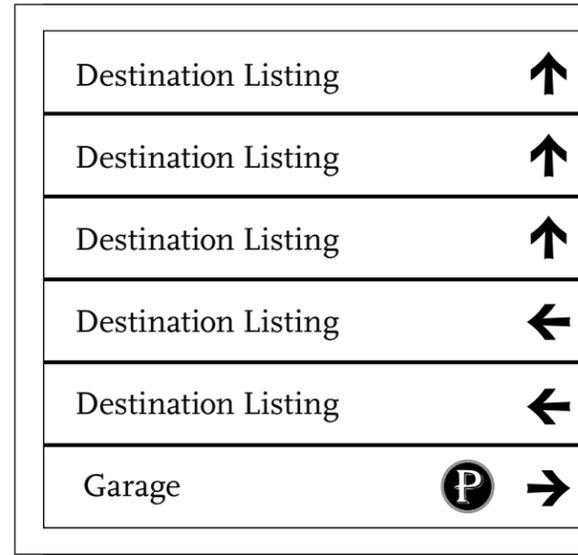
Location 522
Side A



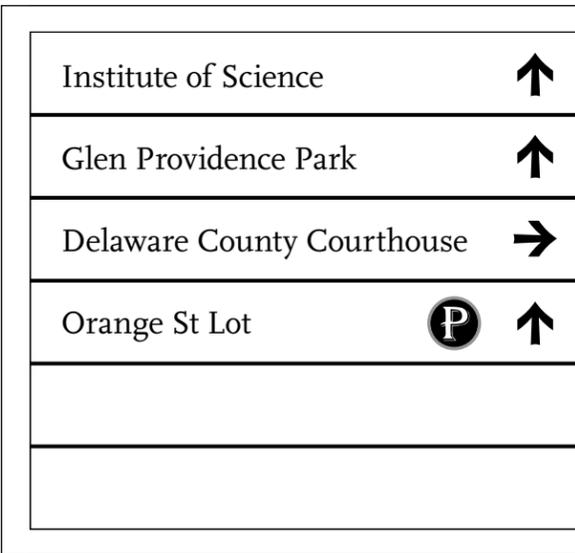
Location 522
Side B



Location 523
Side A



Location 523
Side B



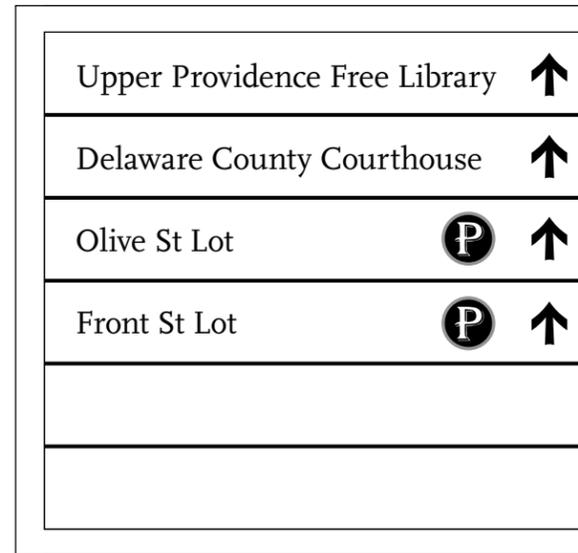
Location 505
Side A



Location 505
Side B



Location 506
Side A



Location 506
Side B

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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CLIENT / PROJECT

DRAWN BY: LH

Media Borough, PA
Wayfinding and Signage System

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PROJECT NO.

SHEET TITLE

PDIR.1-2
Graphic Layouts

REVISIONS

SHEET NO.

Pennsylvania Veteran's Museum ←
Media Theatre ←
Fellowship House ←
Media Presbyterian Church ←
Glen Providence Park →
Baltimore Ave Garage P ↑

Location 507
Side A

Upper Providence Free Library ↑
Delaware County Courthouse ↑
Glen Providence Park ←
Pennsylvania Veteran's Museum →
Media Theatre →
Olive St Lot P ↑

Location 507
Side B

State St District ↑
Pennsylvania Veteran's Museum ↑
Media Theatre ↑
Media Presbyterian Church ↑
Fellowship House ↑

Location 508
Side A

Delaware County Courthouse ←
Institute of Science ←
Upper Providence Free Library →
Front St Lot P →

Location 508
Side B

Pennsylvania Veteran's Museum ↑
Media Presbyterian Church ↑
Media Theatre ↑
Fellowship House →
Upper Providence Free Library ←
State St Lot P ↑

Location 509
Side A

Plum St Mall ↑
Delaware County Courthouse ↑
Institute of Science ↑
Fellowship House ←
Upper Providence Free Library →
Baltimore Ave Garage P ↑

Location 509
Side B

Plum St Mall ↑
Delaware County Courthouse ↑
Institute of Science ↑
Fellowship House ←
Upper Providence Free Library →
Baltimore Ave Garage P ↑

Location 510
Side A

Pennsylvania Veteran's Museum ↑
Media Presbyterian Church ↑
Media Theatre ↑
Fellowship House →
Upper Providence Free Library ←
State St Lot P ↑

Location 510
Side B

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DRAWN BY: LH	Media Borough, PA Wayfinding and Signage System
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	SHEET TITLE
REVISIONS	PDIR.1-2 Graphic Layouts
	SHEET NO.
	E.18

Plum St Mall	↑
Fellowship House	↑
Upper Providence Free Library	↑
Delaware County Courthouse	↑
Media Presbyterian Church	←
Baltimore Ave Garage	↑

Location 511
Side A

Media Presbyterian Church	→
Media Theatre	↑
Post Office	↑
Barral Park	↑
Providence Road Station	↑
Gayley St Lot	↑

Location 511
Side B

Media Theatre	↑
Barral Park	↑
Providence Road Station	↑
Minshall House	↑
Post Office	→
Gayley St Lot	↑

Location 512
Side A

Pennsylvania Veteran's Museum	↑
Media Presbyterian Church	↑
Plum St Mall	↑
Fellowship House	↑
Post Office	←
State St Lot	↑

Location 512
Side B

Pennsylvania Veteran's Museum	↑
Media Presbyterian Church	↑
Plum Street Mall	↑
Fellowship House	↑
Post Office	←
State Street Lot	↑

Location 513
Side A

Media Theatre	↑
Barral Park	↑
Providence Road Station	↑
Minshall House	↑
Post Office	→
Gayley St Lot	↑

Location 513
Side B

Providence Road Station	↑
Minshall House	↑
Barral Park	←

Location 514
Side A

Media Theatre	↑
State St District	↑
Post Office	↑
Pennsylvania Veteran's Museum	↑
Media Presbyterian Church	↑
Barral Park	→

Location 514
Side B

SPECIFICATIONS

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REVISIONS		PROJECT NO.
		SHEET TITLE
		PDIR.1-2 Graphic Layouts
		SHEET NO.
		E.19

Media Theatre	↑
State St District	↑
Post Office	↑
Pennsylvania Veteran's Museum	↑
Media Presbyterian Church	↑
Barral Park	→

Location 515
Side A

Providence Road Station	↑
Minshall House	↑
Barral Park	←

Location 515
Side B

Providence Road Station	↑
Minshall House	←

Location 516
Side B

Barral Park	↑
Media Theatre	↑
State St District	↑
Post Office	↑
Pennsylvania Veteran's Museum	↑
Media Presbyterian Church	↑

Location 516
Side B

Barral Park	↑
Media Theatre	↑
State St District	↑
Post Office	↑
Pennsylvania Veteran's Museum	↑
Media Presbyterian Church	↑

Location 517
Side A

Providence Road Station	↑
Minshall House	←

Location 517
Side B

Barral Park	↑
Providence Road Station	↑
Media Theatre	↑
State St District	↑
Post Office	↑
Pennsylvania Veteran's Museum	↑

Location 518
Side A

Minshall House	→

Location 518
Side B

SPECIFICATIONS

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REVISIONS		PROJECT NO.
		SHEET TITLE
		PDIR.1-2 Graphic Layouts
		SHEET NO.
		E.20

Fellowship House	↑

Location 519
Side A

State Street District	↑
Plum St Mall	↑
Pennsylvania Veteran's Museum	↑
Upper Providence Free Library	↑
Media Presbyterian Church	→
Baltimore Ave Garage	 ←

Location 519
Side B

SPECIFICATIONS

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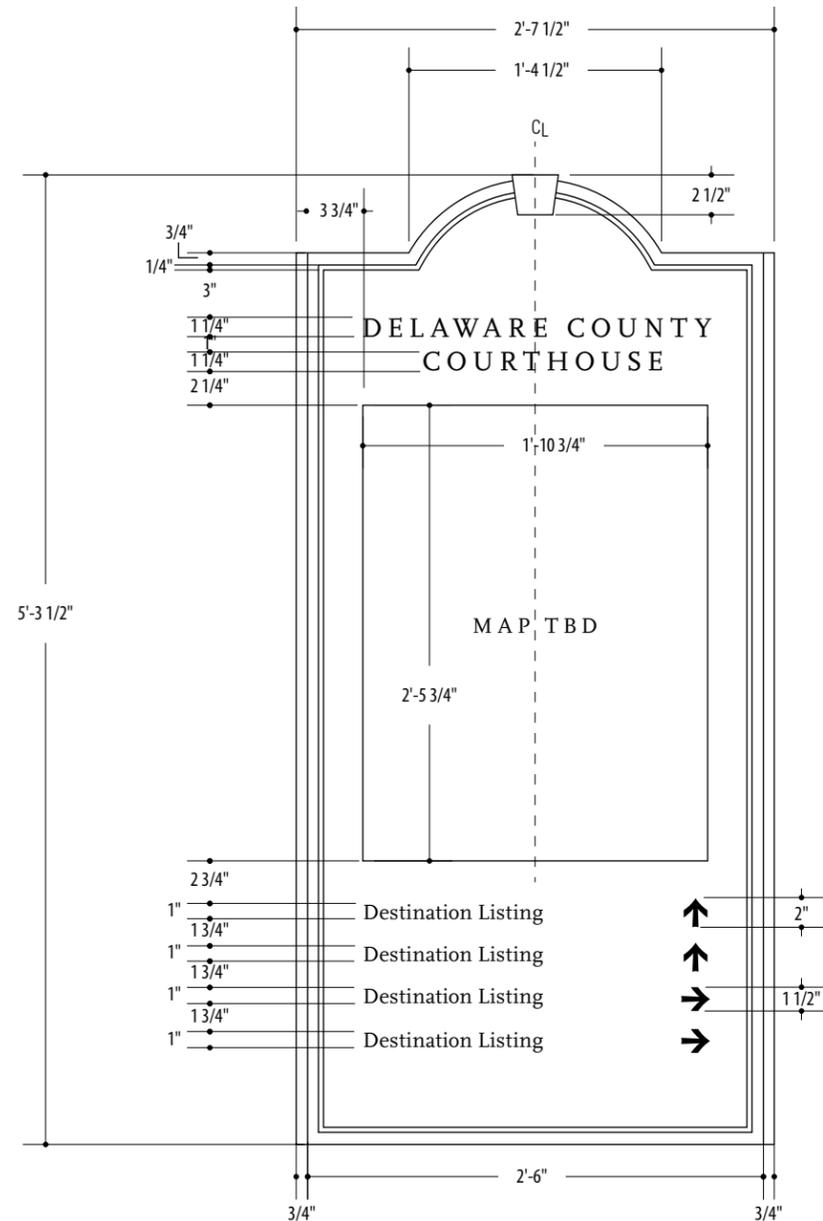
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DATE 06/30/16	CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
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	SHEET TITLE PDIR.1-2 Graphic Layouts
REVISIONS	SHEET NO. E.21



1 Graphic Layout: COURT.1
SCALE: 1" = 1'-0"

SPECIFICATIONS

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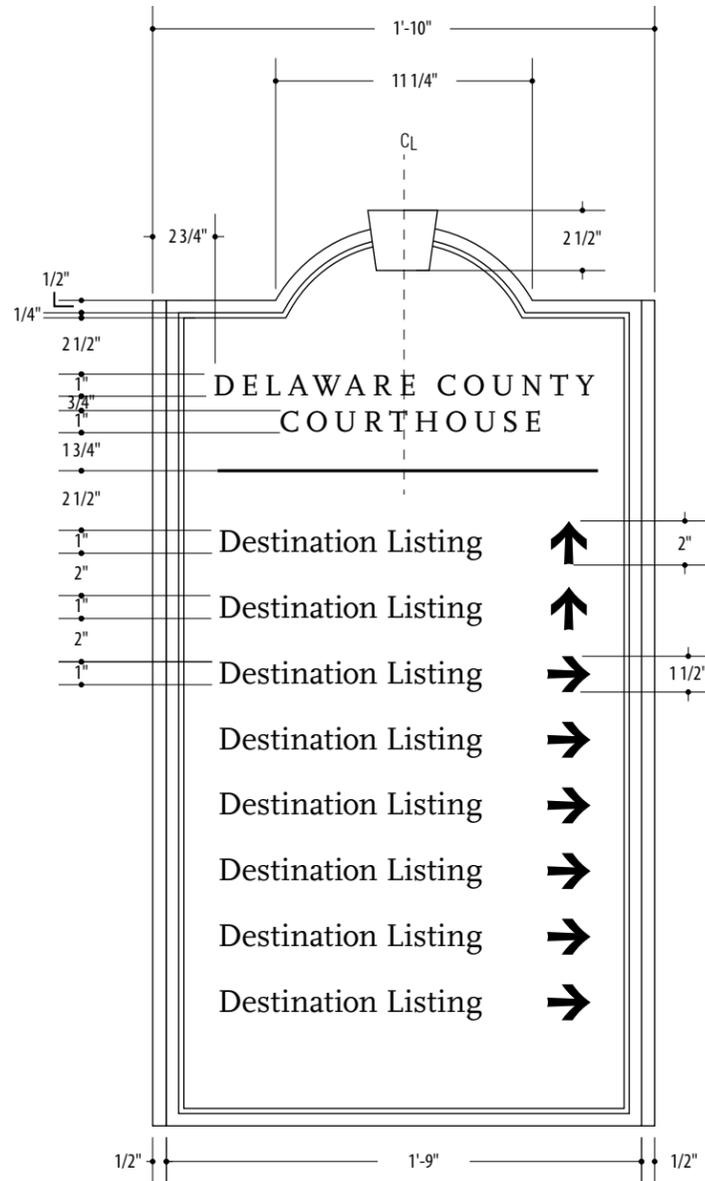
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DATE 06/30/16	CLIENT / PROJECT Media Borough, PA Wayfinding and Signage System
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REVISIONS	SHEET TITLE COURT.1 Graphic Layouts
	SHEET NO. E.22



1 Graphic Layout: COURT.2
SCALE: 1 1/2" = 1'-0"

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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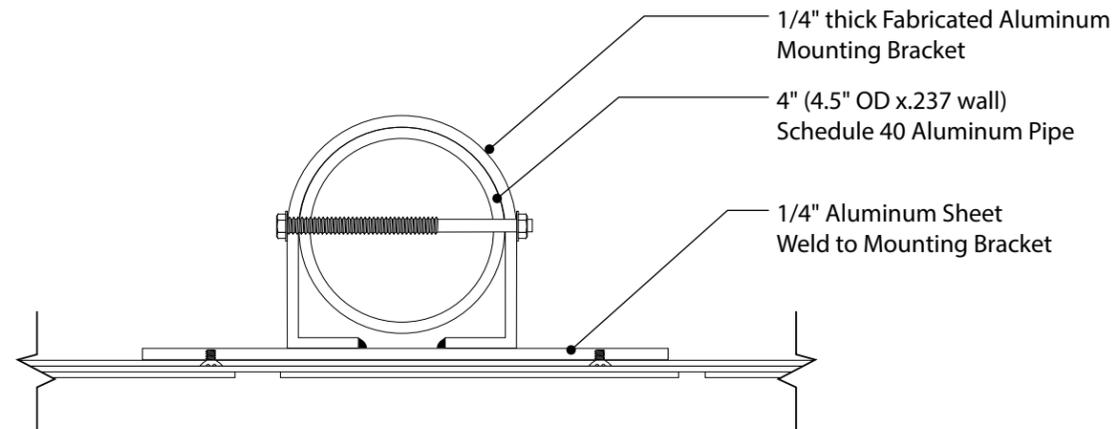
DATE 06/30/16	CLIENT / PROJECT
DRAWN BY: LH	Media Borough, PA Wayfinding and Signage System
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	SHEET TITLE
	COURT.2 Graphic Layouts
REVISIONS	SHEET NO.
	E.23

F | Construction Details

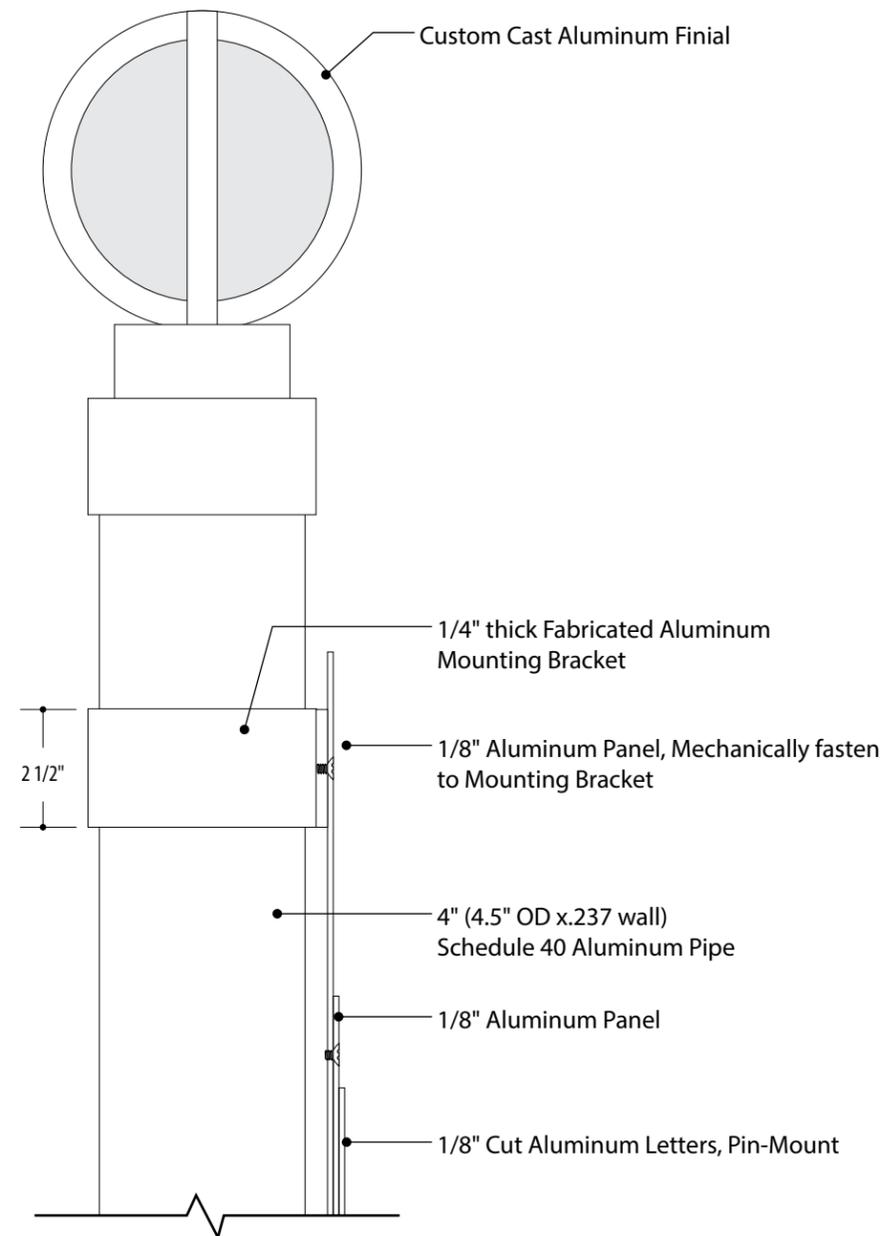
SPECIFICATIONS

Construction Details

Sign Type:
GATE.2



1 Section View: GATE.2
SCALE: 3" = 1'-0"



2 Section View : GATE.2
SCALE: 3" = 1'-0"

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REVISIONS

CLIENT / PROJECT

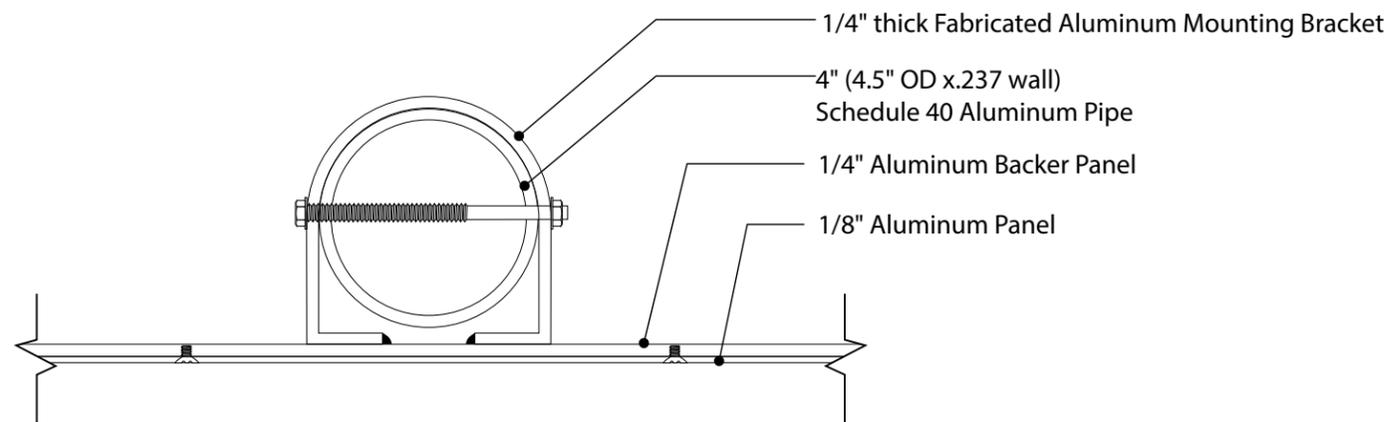
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

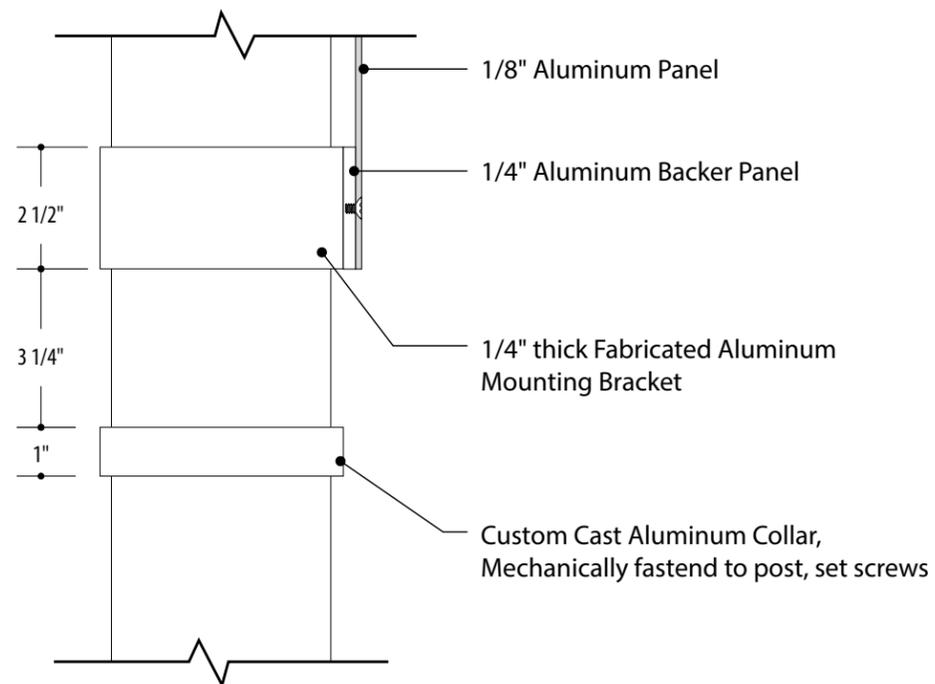
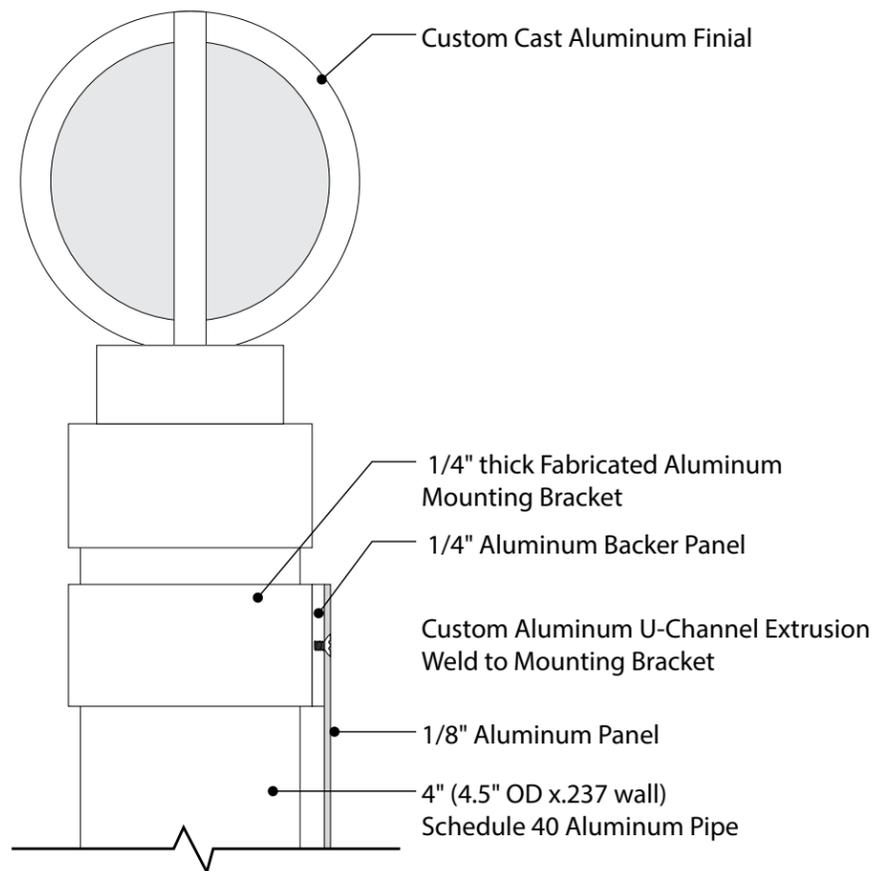
SHEET TITLE

GATE.2
Section Details

SHEET NO.



1 Section View: VDIR.1-8
SCALE: 3" = 1'-0"



SPECIFICATIONS

Construction Details

Sign Type:
VDIR.1
VDIR.2
VDIR.3
VDIR.4
VDIR.5
VDIR.6
VDIR.7
VDIR.8

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CLIENT / PROJECT
Media Borough, PA
 Wayfinding and Signage System

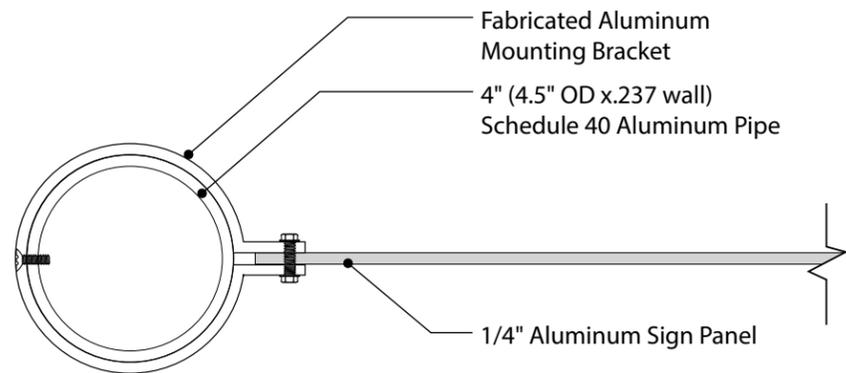
PROJECT NO.

SHEET TITLE

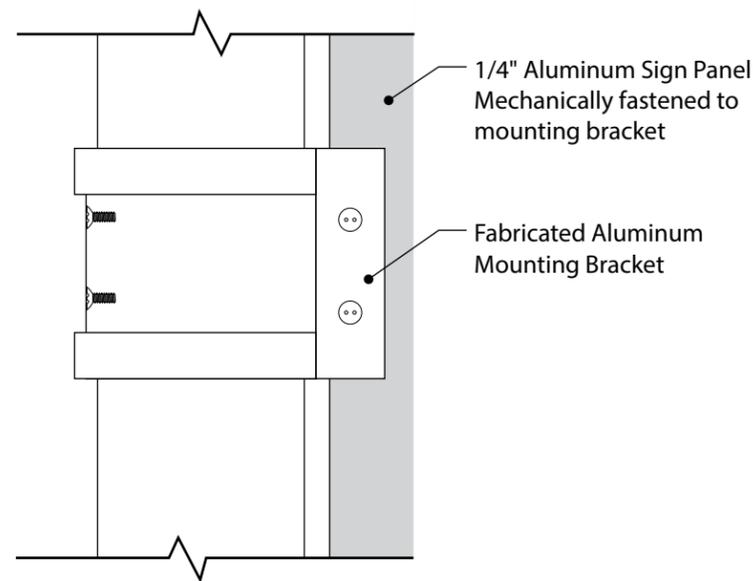
VDIR.1-8
Section Details

REVISIONS

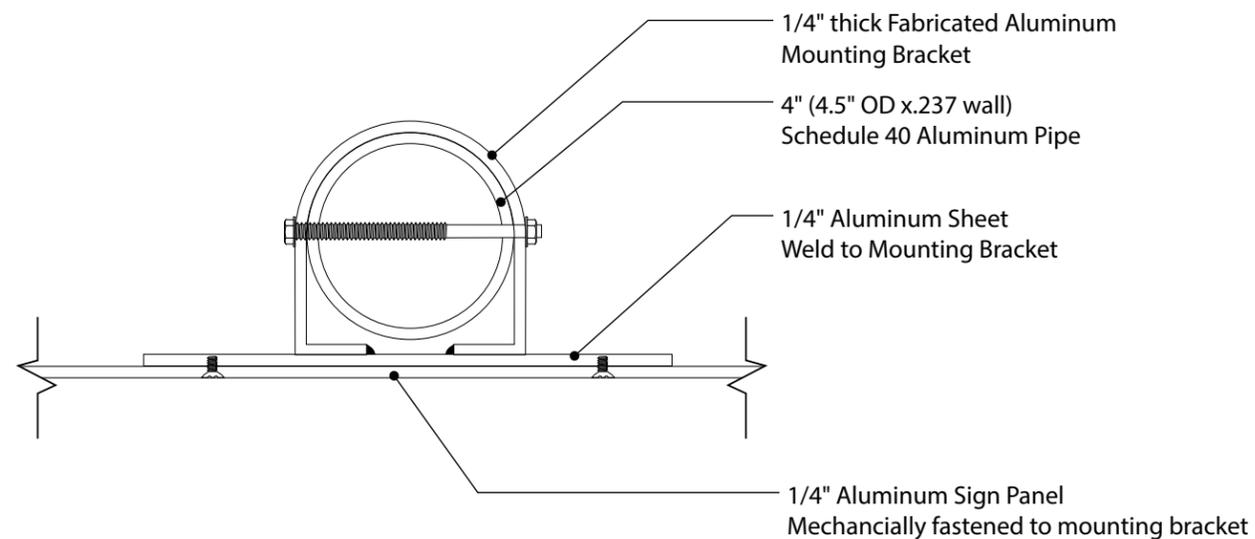
SHEET NO.



1 Section View: PARK.2-3, PDIR.2
SCALE: 3" = 1'-0"



2 Collar Detail: PARK.2-3, PDIR.2
SCALE: 3" = 1'-0"



3 Section View: PARK.1
SCALE: 3" = 1'-0"

SPECIFICATIONS

Construction Details

Sign Type:
PARK.1
PARK.2
PARK.3
PDIR.1

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CLIENT / PROJECT

DRAWN BY: LH

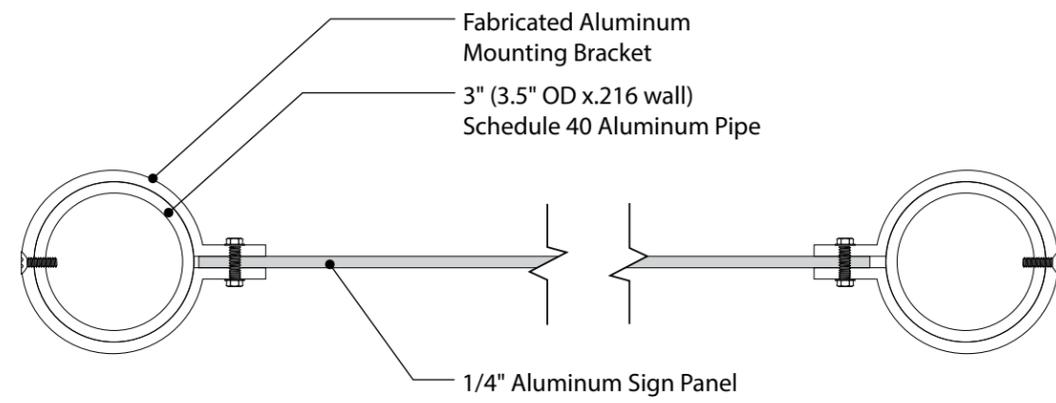
Media Borough, PA
Wayfinding and Signage System

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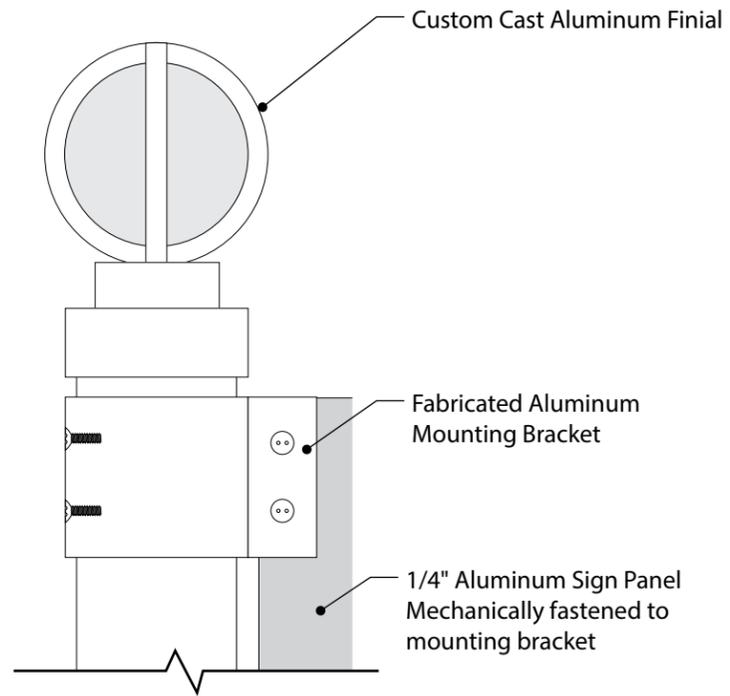
PROJECT NO.
 SHEET TITLE
PARK.1-3 & PDIR.2
VSection Details

REVISIONS

SHEET NO.



1 Section View: KIOSK.2, COURT.1-2
SCALE: 3" = 1'-0"



2 Section View: KIOSK.2, COURT.1-2
SCALE: 3" = 1'-0"

SPECIFICATIONS

Construction Details

Sign Type:
COURT.1
COURT.2
KIOSK.2

NOTES:

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

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Wayfinding and Signage System

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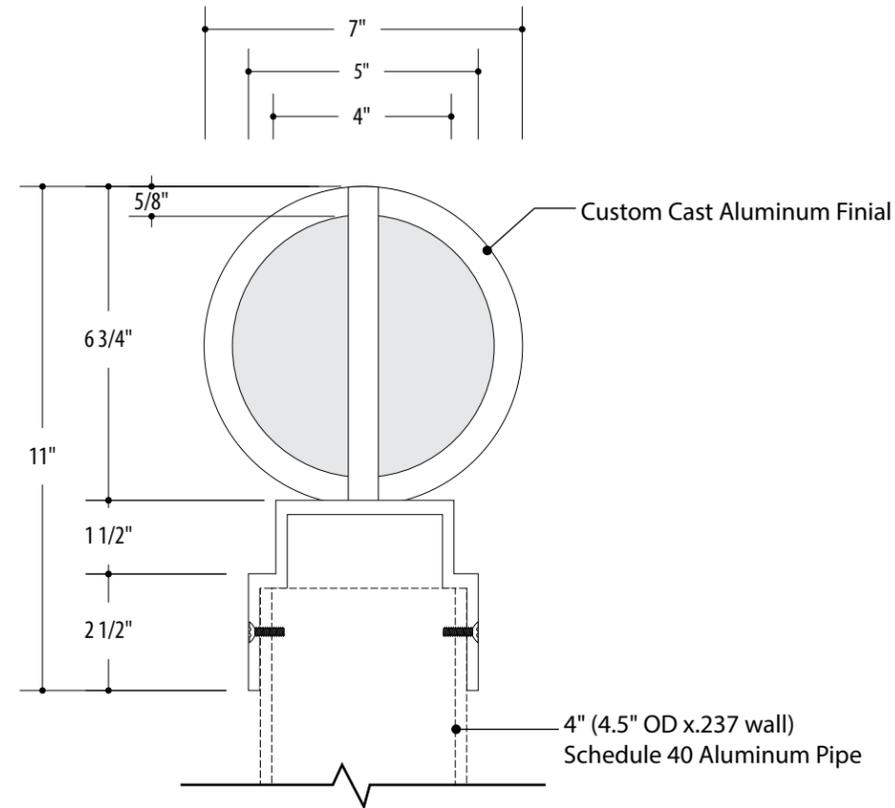
SHEET TITLE

COURT.1-2, KIOSK.2
Section Details

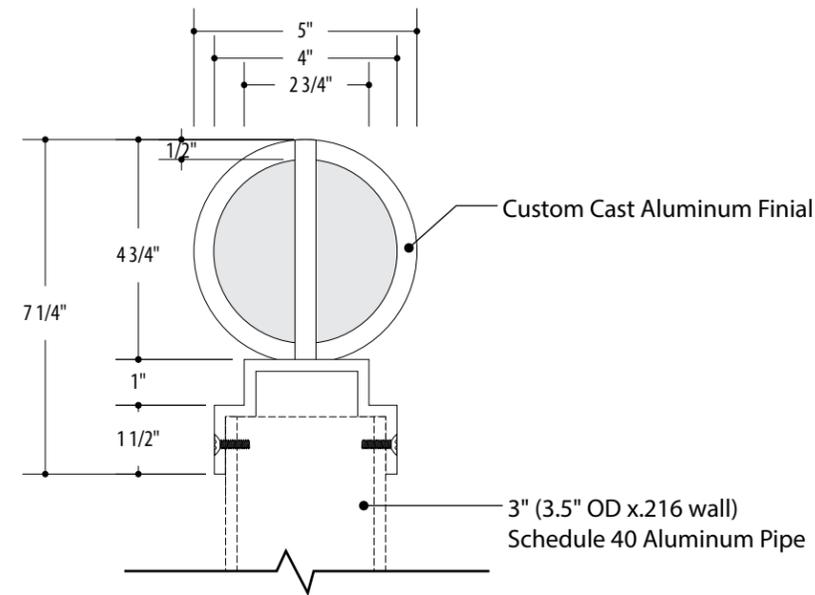
REVISIONS

SHEET NO.

SPECIFICATIONS



1 4" Pole Finial Details
SCALE: 3" = 1'-0"



2 3" Pole Finial Details
SCALE: 3" = 1'-0"

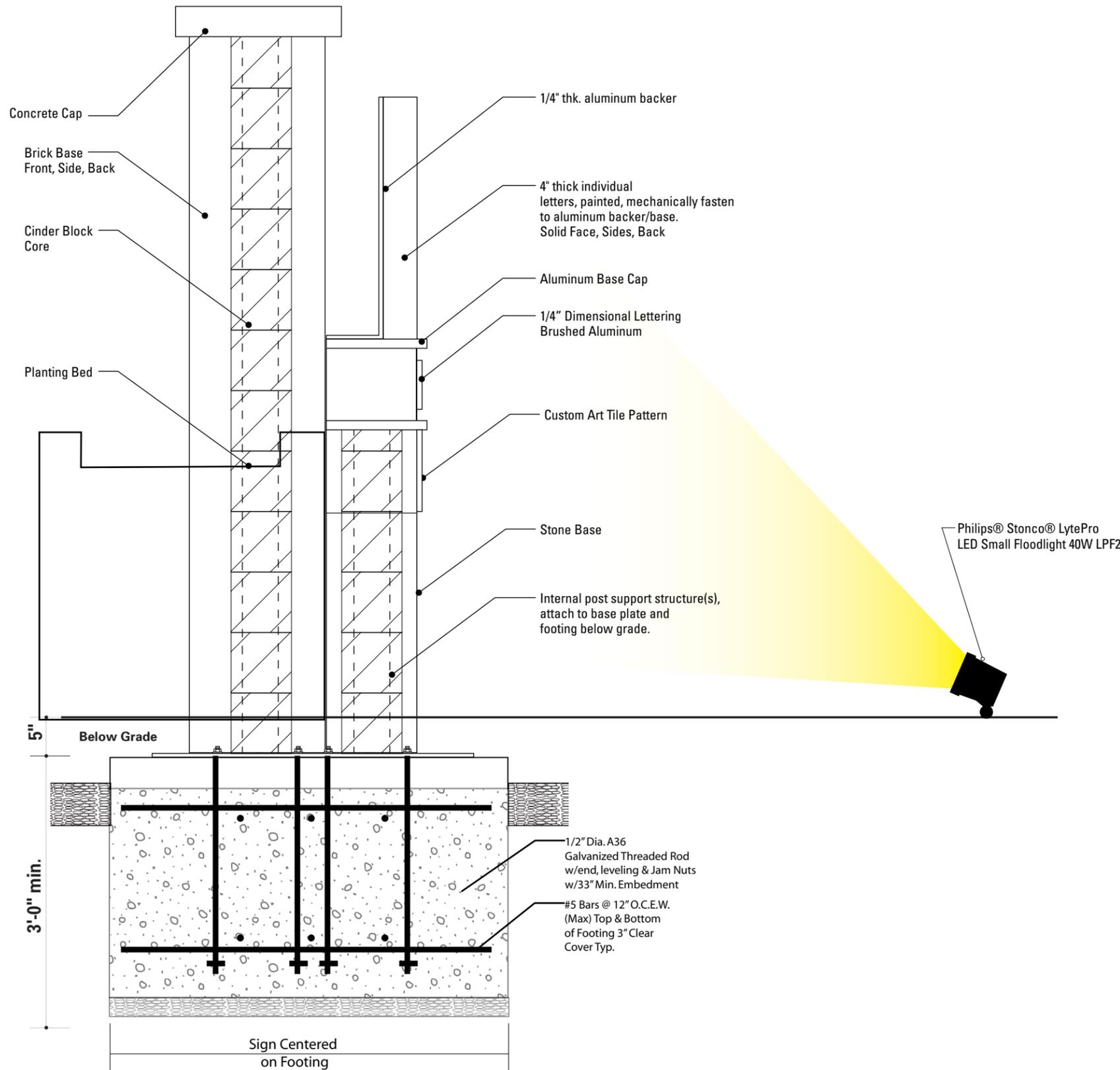
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REVISIONS		SHEET NO.	
			F.5



1 Section: GATE.1
SCALE: 1" = 1'-0"

SPECIFICATIONS

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

NOTE:

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

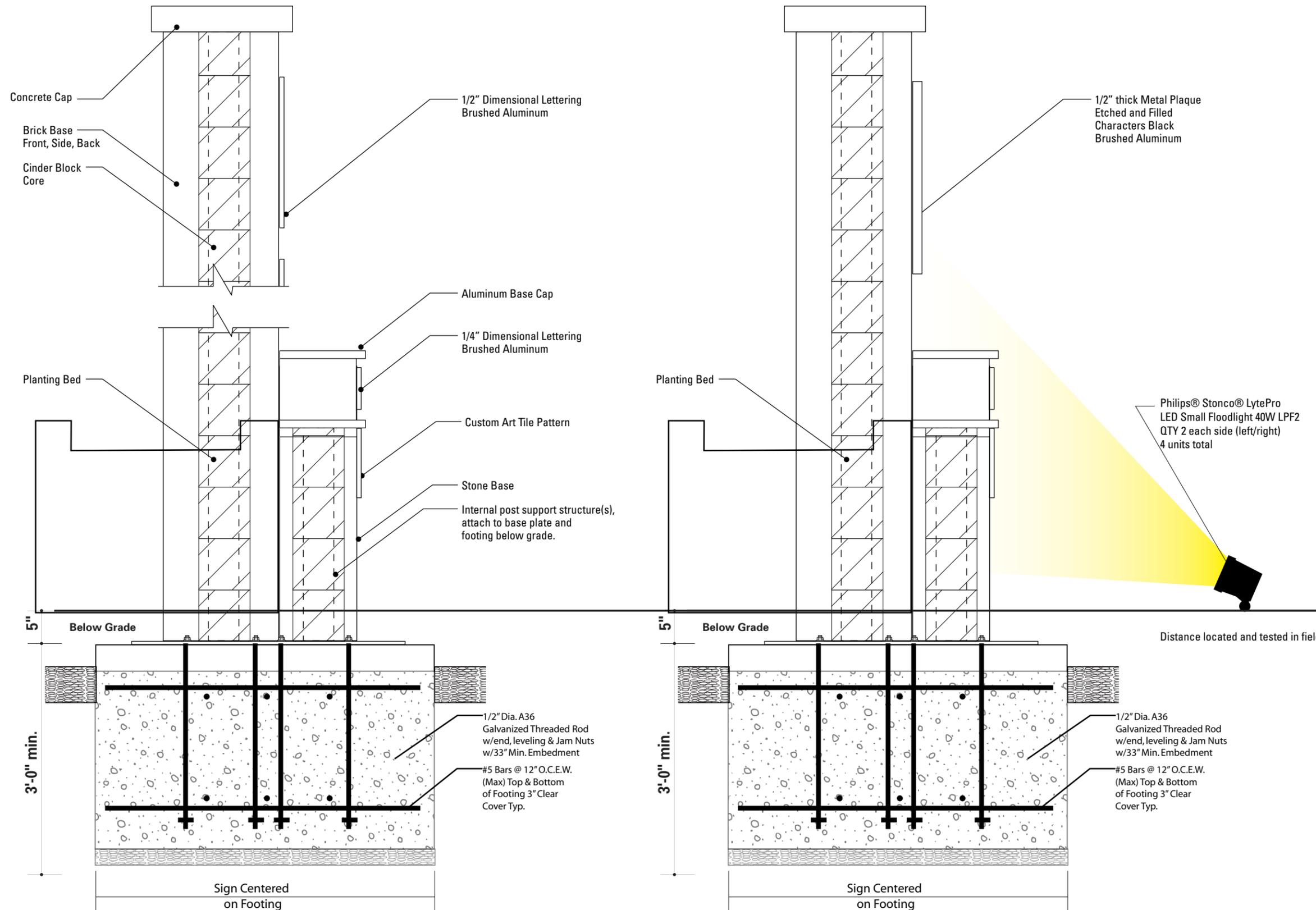
PROJECT NO.

SHEET TITLE

GATE.1
Construction Details

SHEET NO.

F.6



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REVISIONS		SHEET NO.	
			F.7

1 Section: GATE.3 Left Side
SCALE: 1" = 1'-0"

2 Section: GATE.3 Right Side
SCALE: 1" = 1'-0"

PARTS LIST

ITEM	DESCRIPTION	SIZE/SPECIFICATIONS	QTY/ POST	PART NUMBER
1	Bracket, Type AP3/AP3.5, AP4/AP4.5	6061-T6 Aluminum	2	SBMAP 3, 3.5, 4 & 4.5*
2	Bracket Adaptor, Type AP3, AP3.5, AP4, AP4.5	6061-T6 Aluminum	2	
2a	with Adaptor Ring, Type AP3, AP4	6061-T6 Aluminum	1	
3	Bracket Hardware Assembly, Type AP3, AP3.5, AP4, AP4.5, includes:		1	SB-AP3.5H, 4.5H
3a	Bolt	12.7mm(1/2")-13UNC, Hex Head, ASTM A325, Galv. ASTM A153	4	
3b	LockWasher	12.7mm(1/2"), ANSI B18-21-1, Galv. ASTM A153	4	
3c	Nut	12.7mm(1/2")-13UNC, Heavy Hex, ASTM A563 Gr. DH, Galv. ASTM A153	4	
4	Coupling & Special Bolt Assembly, Type A, includes:		1	SB-CALP
4a	Special Bolt	15.9mm(5/8")-11UNC, ASTM A449, Galv. ASTM A153/B695	4	
4b	Coupling	15.9mm(5/8")-11UNC, LP, AMS 6378D, Galv. ASTM A153, Polyester Coat	4	
4c	Shim	15.9mm(5/8") Horseshoe, 14 Gauge, Galv. Steel Sheet	2	
4d	Shim	15.9mm(5/8") Horseshoe, 18 Gauge, Galv. Steel Sheet	2	
5	Anchor Assembly, Type A, includes:		1	SBAAPK
5a	Anchor	15.9mm(5/8")-11UNC, 304 S.S. Ferrule, AISI 1038 Rod, AISI 1008 Coil	4	

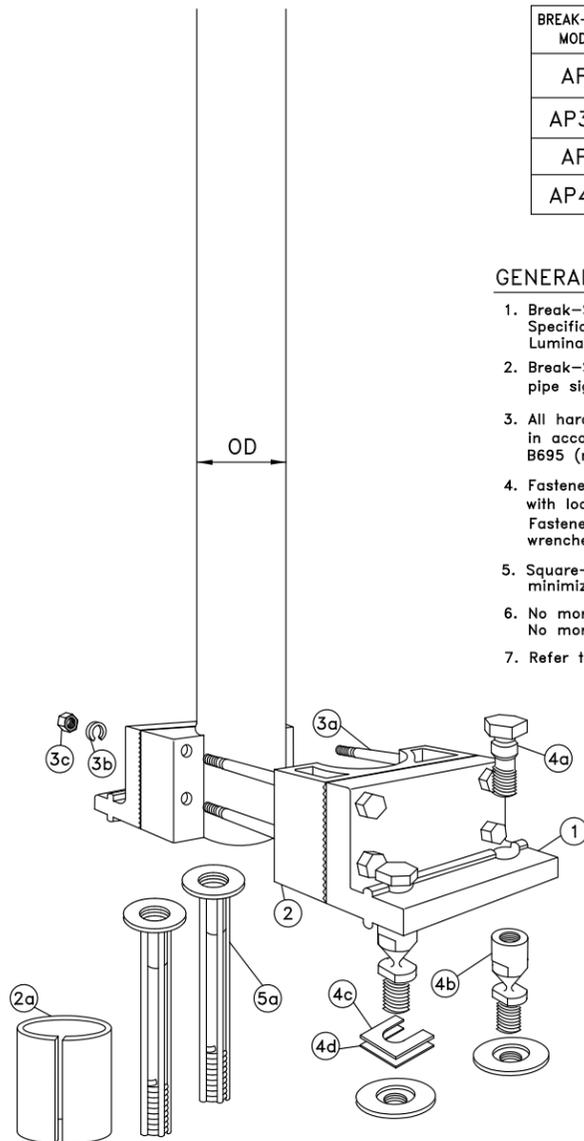
*Complete assembly includes line items 1-4

BREAK-SAFE MODEL AP SELECTION TABLE

BREAK-SAFE MODEL	PIPE OUTSIDE DIAMETER (OD)	NOMINAL SCH. 40 PIPE SIZE
AP3	73 mm (2-7/8")	2-1/2"
AP3.5	89 mm (3-1/2")	3"
AP4	102 mm (4")	3-1/2"
AP4.5	114 mm (4-1/2")	4"

GENERAL NOTES:

1. Break-Safe meets all requirements of "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals."
2. Break-Safe Model AP is designed to fit steel or aluminum round pipe signposts. See table above for pipe sizes.
3. All hardware items are American Standard sizes, galvanized in accordance with ASTM A153 (hot dipped) or ASTM B695 (mechanically applied).
4. Fasteners, except for special bolt and coupling, are installed with lockwashers, and do not have specific torque requirements. Fasteners should be secured as tight as possible with conventional wrenches, unless noted otherwise.
5. Square-up and level individual components, particularly Anchors to minimize the need for shimming between the Couplings and Anchors.
6. No more than two shims shall be placed under any one coupling. No more than three shims underneath any pair of couplings.
7. Refer to other side of page for complete installation instructions.



TRANSPO INDUSTRIES, INC. 20 Jones Street
New Rochelle, NY 10801
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www.transpo.com
The Smart Solutions Company

Break-Safe Model AP
Breakaway Support System for Sign Posts

Scale: Not To Scale Date: March 2013
Drawing No. BS-AP-1 Sheet: 1 of 2

Patent Nos. 4,528,786 and 5,596,845

INSTALLATION INSTRUCTIONS

ANCHOR ASSEMBLY:

Note: Precise positioning of the anchors is critical to proper assembly of the system. It is recommended that actual posts be used to locate the correct position of the anchors.

1. Fabricate a flat, rigid template with four (4) 16mm (5/8") diameter holes located to match the specified anchor pattern of the Break-Safe Brackets attached to the signpost. See diagram below.
2. Attach four (4) Transpo Type A Female Anchors to the template using four (4) 16mm (5/8") diameter bolts. Ensure that each Anchor Washer is snug against the bottom of the template.
3. Lower Anchor Assembly into fresh concrete foundation, and vibrate into position such that the tops of the Anchor Washers are flush with the finished top surface of the foundation. Support the template such that all Anchors are level and in their proper locations.

4. Allow concrete to cure, and then remove the bolts and template from the top of the foundation.

BRACKET ASSEMBLY:

1. Place Bracket Adaptors (& Adaptor Ring for Models AP3 & AP4) and Brackets squarely on the bottom of the post, such that the lower end of the post is flush with the bottom of both Bracket Adaptors.

2. Secure the Bracket assembly with bolts, lock washers, and nuts. Then, tighten all 1/2 turn beyond snug.

3. Adapter Ring Provided for AP3 and AP4. Slide Adapter Ring over pipe and secure bracket assembly to pipe.

COUPLING ASSEMBLY:

1. Thread four (4) Break-Safe Couplings into Anchors. Do not tighten.

2. Suspend post assembly over foundation, insert Special Bolts through holes in the Brackets, and thread them snug into the Couplings.

3. If post is not plumb, insert Shims (14g and/or 18g) between the Couplings and Anchors, where needed.

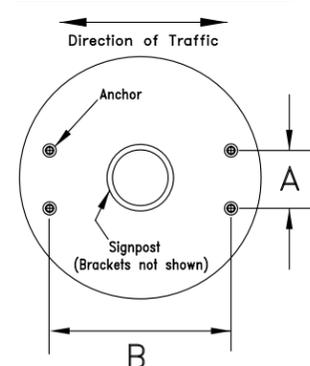
4. Use lower wrench flats to tighten Couplings into Anchors as tight as possible using a conventional wrench. Do not use a pipe wrench. Couplings must be seated squarely.

5. Tighten Special Bolts while holding Couplings by the upper wrench flats with an additional wrench to prevent an induced torque stress across the necked portion of the Coupling. All Special Bolts shall also be tightened as tight as possible using conventional wrenches.

SIGN PANEL ASSEMBLY:

1. After all signposts are secured in place, attach sign panel assembly to posts in accordance with the sign manufacturer's recommendations.

PLAN VIEW OF TYPICAL FOUNDATION

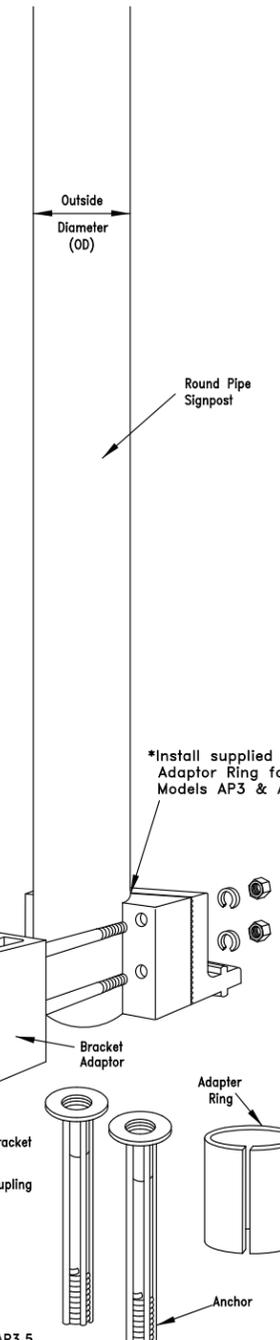


BREAK-SAFE MODEL AP ANCHOR SPACING

BREAK-SAFE MODEL	POST OUTSIDE DIAMETER (OD)	NOMINAL SCH 40 PIPE	A	B
AP3*	73 mm (2-7/8")	2-1/2"	70 mm (2-3/4")	202 mm (7-15/16")
AP3.5	89 mm (3-1/2")	3"	70 mm (2-3/4")	202 mm (7-15/16")
AP4*	102 mm (4")	3-1/2"	83 mm (3-1/4")	227 mm (8-15/16")
AP4.5	114 mm (4-1/2")	4"	83 mm (3-1/4")	227 mm (8-15/16")

*Install supplied Adaptor Ring for Models AP3 & AP4.

Patent Nos. 4,528,786 and 5,596,845



**146mm (5-3/4") for AP3 & AP3.5
**171mm (6-3/4") for AP4 & AP4.5

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The Smart Solutions Company

Break-Safe Model AP
Breakaway Support System for Sign Posts

Scale: Not To Scale Date: March 2013
Drawing No. BS-AP-2 Sheet: 2 of 2

Patent Nos. 4,528,786 and 5,596,845

SPECIFICATIONS

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CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

REVISIONS

SHEET TITLE

PROJECT NO.

SHEET TITLE

Transpo Break-Safe AP 4.5

Details

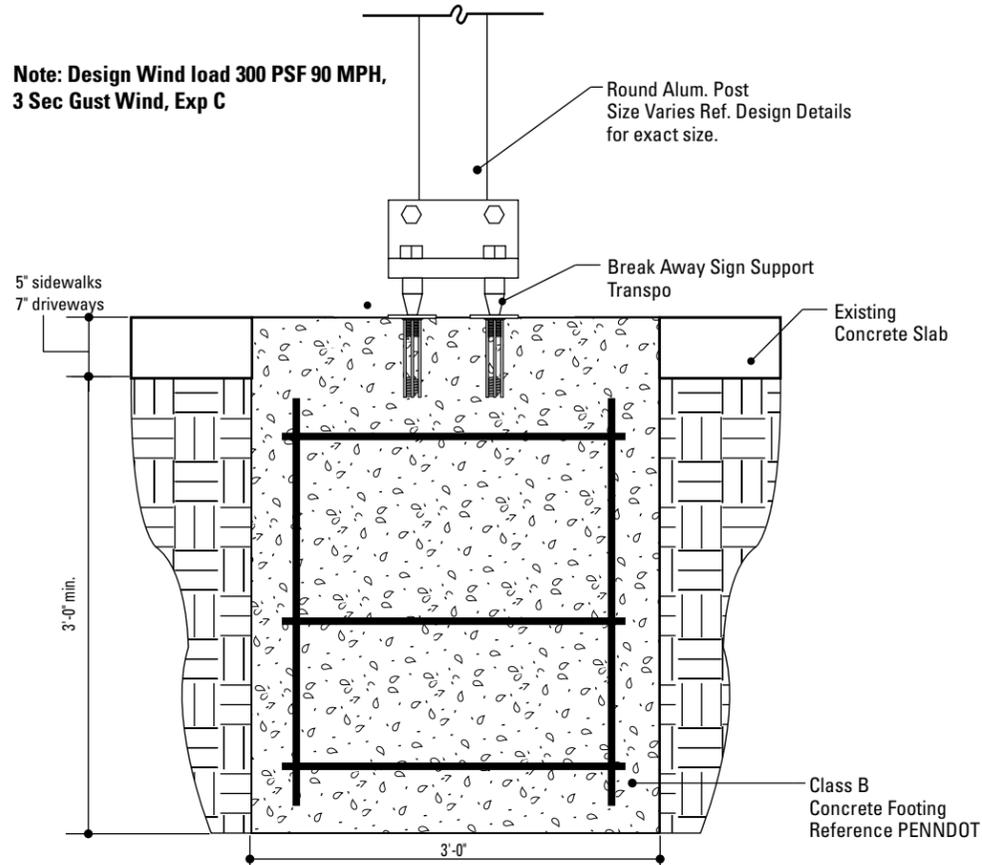
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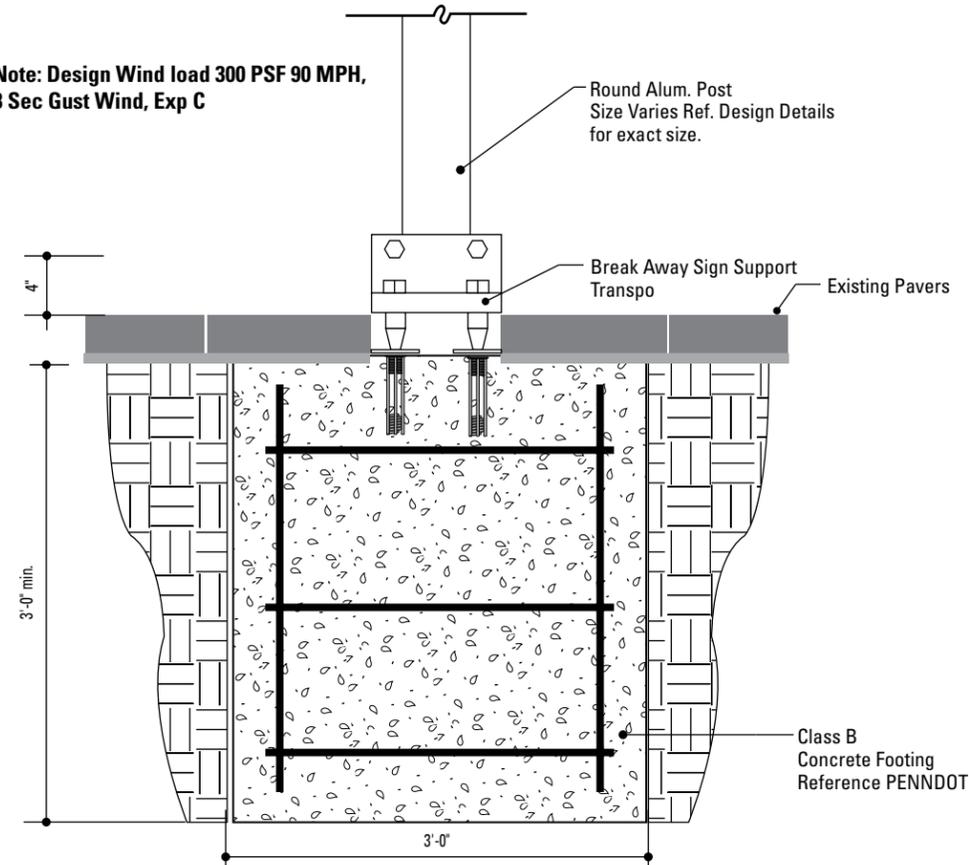
SHEET NO.

**Note: Design Wind load 300 PSF 90 MPH,
3 Sec Gust Wind, Exp C**



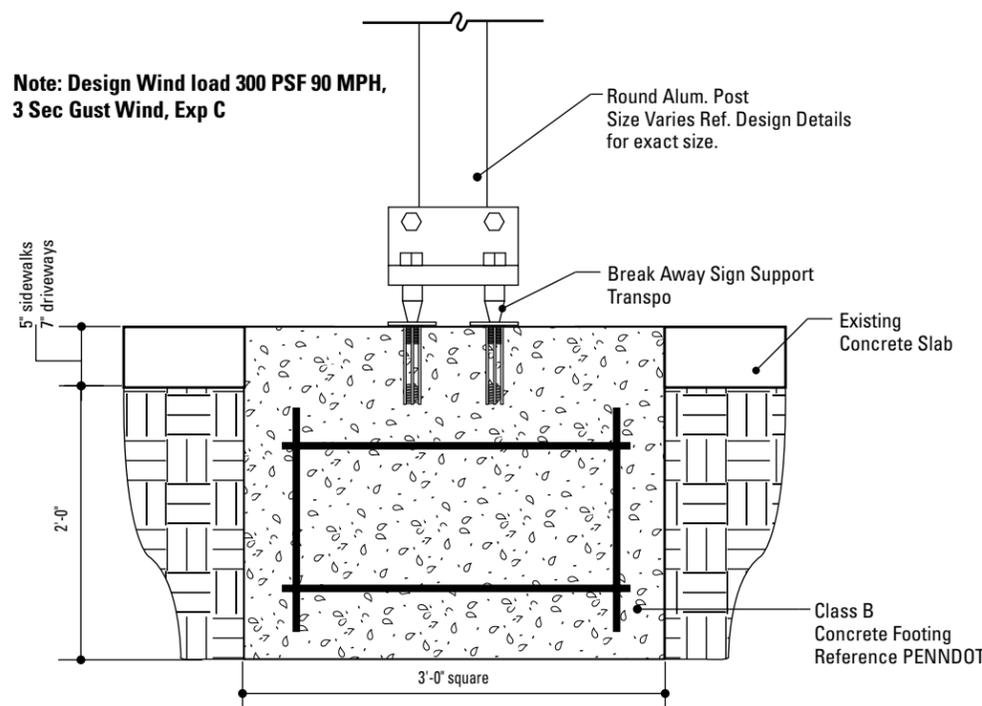
1 Section View: Foundation @ Concrete
SCALE: 3/4" = 1'-0"

**Note: Design Wind load 300 PSF 90 MPH,
3 Sec Gust Wind, Exp C**



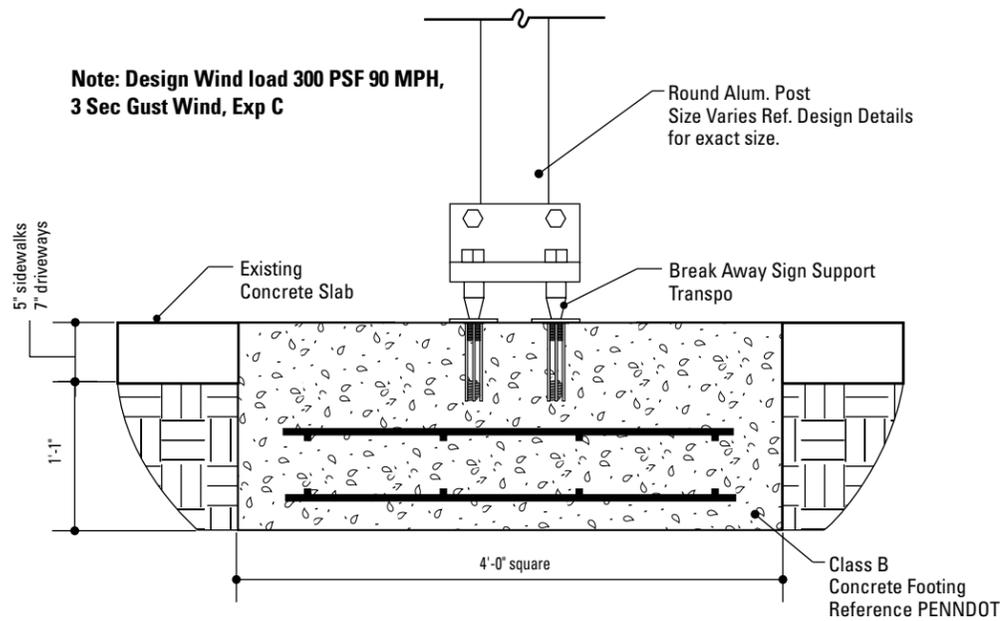
2 Section View: Foundation @ Pavers
SCALE: 3/4" = 1'-0"

**Note: Design Wind load 300 PSF 90 MPH,
3 Sec Gust Wind, Exp C**



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

**Note: Design Wind load 300 PSF 90 MPH,
3 Sec Gust Wind, Exp C**



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

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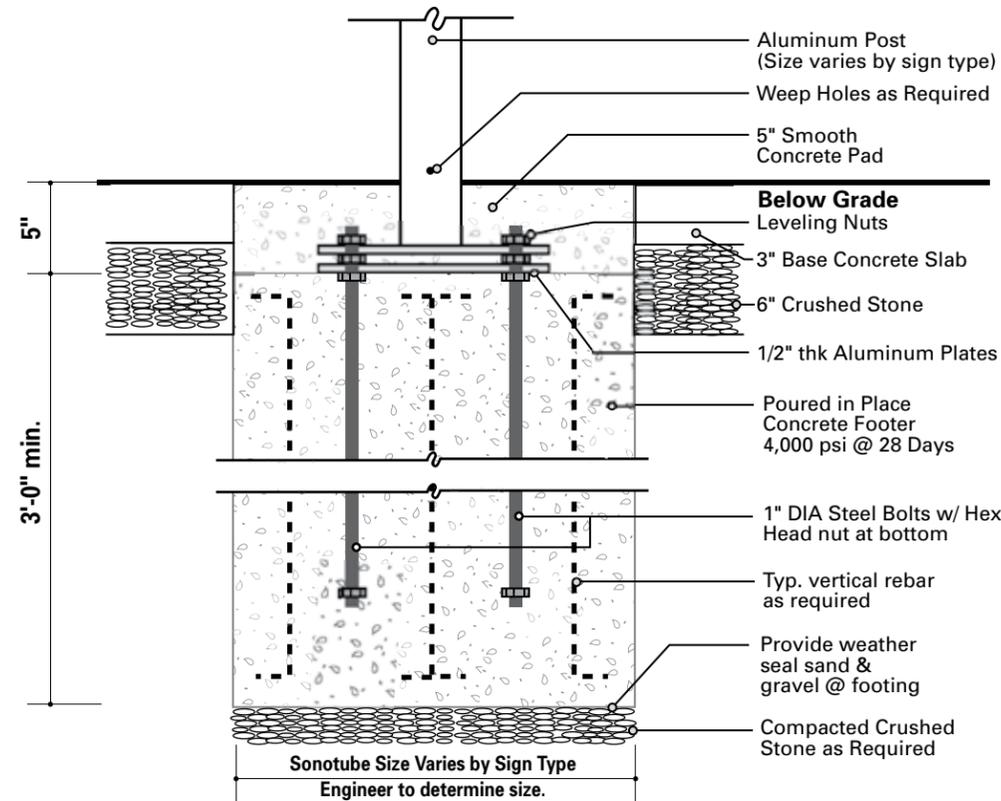
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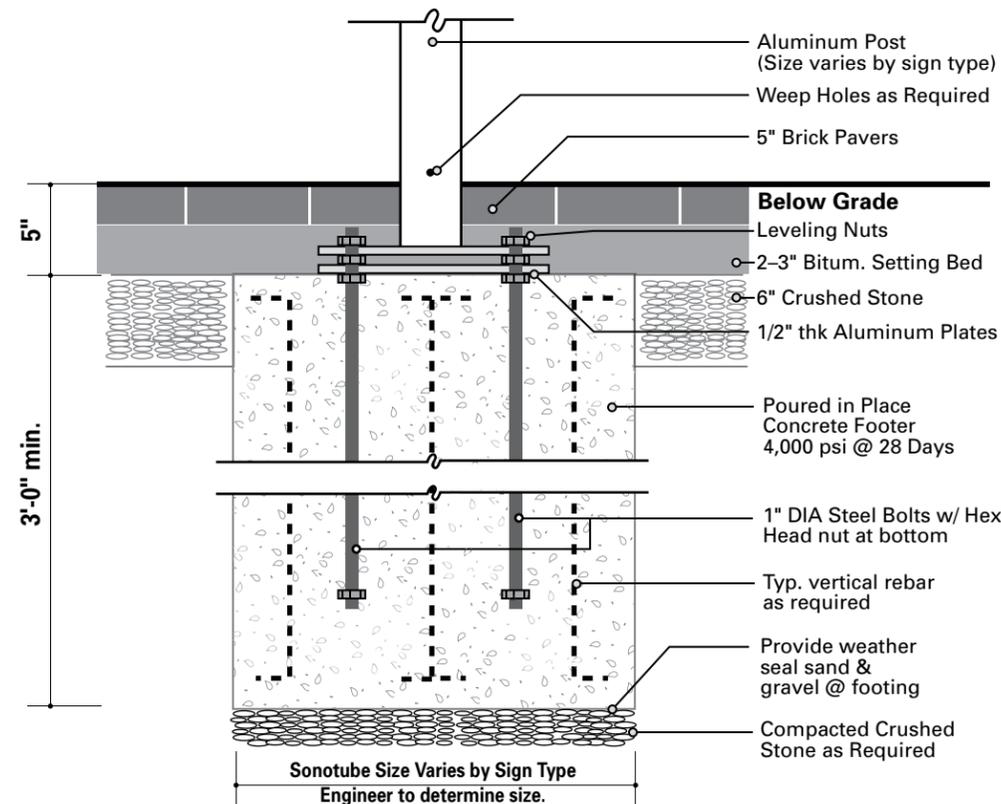
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REVISIONS		SHEET NO.	



Section: Bolt w/ Nut Plate-to-Plate MOUNTING
1 Concrete Pavement Surface
 SCALE: 1" = 1' - 0"



Section: Bolt w/ Nut Plate-to-Plate MOUNTING
2 Brick Pavers Surface
 SCALE: 1" = 1' - 0"

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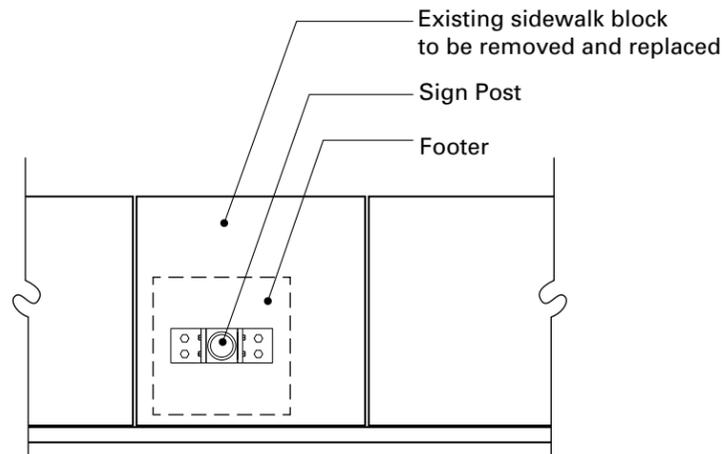
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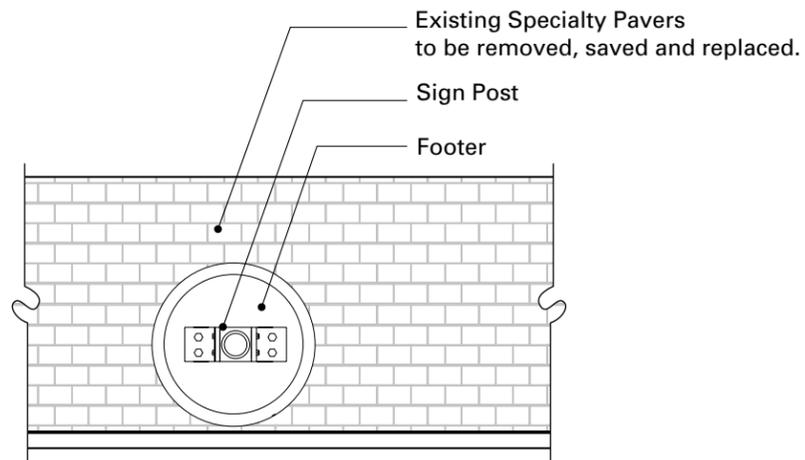
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REVISIONS		SHEET TITLE
		Plate-to-Plate Footer Detail
		SHEET NO.
		F.10



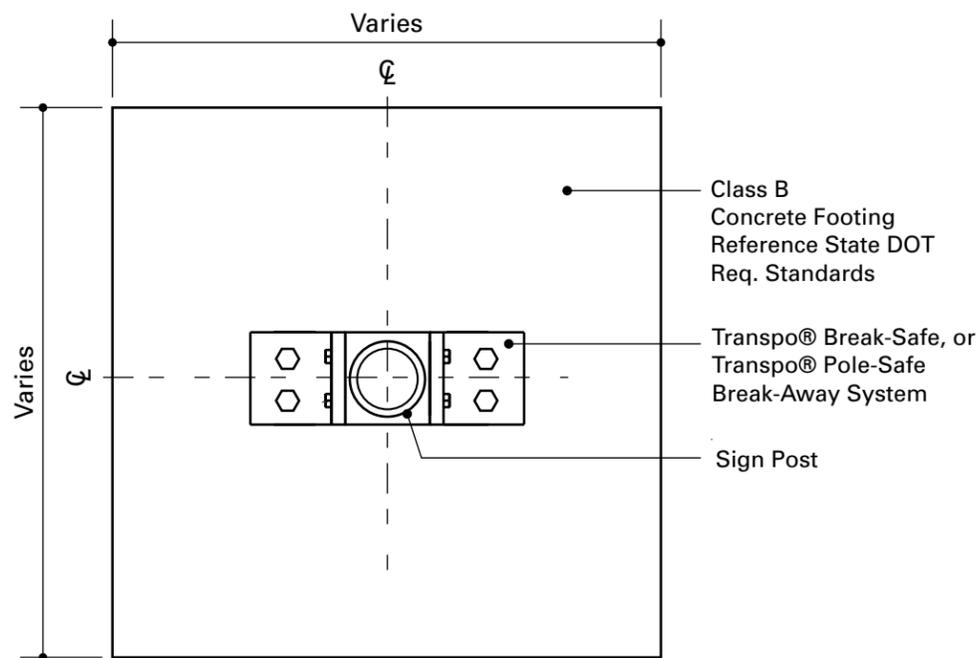
NOTE: When locating a footer within a single pavement block adjacent to at least 2 expansion joints, the entire block of pavement shall be removed and replaced with the same materials and finish of adjacent sidewalk areas.

1 Plan: Footer Placement
SCALE: NTS



NOTE: The pattern of bricks need to be removed, stored and replaced in the order they were removed. **Marking the Specialty Pavers sidewalk with spray paint will NOT be allowed.**

3 Plan: Specialty Pavers Footer Placement
SCALE: NTS



2 Plan View: Footer
SCALE: 1" = 1' - 0"



Acceptable Footer Detail



Acceptable Footer Detail



Acceptable Footer Detail



Unacceptable Footer Detail



Unacceptable Footer Detail



Unacceptable Footer Detail

SPECIFICATIONS

Sidewalk Footer Placement Details

The FABRICATOR shall be familiar with all site conditions and shall be responsible for all underground utility checks.

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

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

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

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

NOTE:

- 1) SOIL IS AVERAGE WITH MAXIMUM ALLOWABLE SOIL PRESSURE OF 3,000 POUNDS PER SQUARE FOOT. SOIL UNIT WEIGHT OF 125 PCF AND FRICTION ANGLE OF 30 DEGREES (ASSUMED).
- 2) CONCRETE STRENGTH AT 28 DAYS F'C=4,000 PSI REINFORCEMENT SHALL BE ASTM 36 FY=60,000 PSI
- 3) FOLLOW THE LATEST PENNDOT DESIGN STANDARDS FOR MATERIAL AND CONSTRUCTION INFORMATION FOR THE SIGN POST BASES AND FOUNDATIONS NOT OTHERWISE SPECIFIED IN THESE CONTRACT DRAWINGS.
- 4) FOR SIGN POST SIZES REFER TO THE DESIGN INTENT DRAWING SHEETS.

NOTES:

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

ENVIRONMENTS & EXPERIENCES

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120 North Church Street
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T 484.266.0648
www.merjedesign.com

DATE 06/30/16

DRAWN BY: LH

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE

Sidewalk Footer Placement Details

SHEET NO.

A perfect blend of design, performance and value

LYTEPRO LED SMALL FLOODLIGHT 40W LPF2



Project: _____
 Location: _____
 Catalog No: _____
 Fixture Type: _____
 Mfg: _____ Lamps: _____ Qty: _____
 Notes: _____

PHILIPS STONCO LYTEPRO LED SMALL FLOODLIGHT 40W LPF2

The Philips Stonco LytePro LED Small Floodlight allows precision and flexibility in a compact design. The LPF2 features state-of-the-art long-life LED technology and is ideal for landscapes, accenting signage or displays, facades, and many other lighting applications.

Ordering guide¹

example: LPF2-E-4K-FL-K-F1-PCB-1-BZ

Series / # of COB ²	Drive Current	Color Temperature	Distribution	Mounting	Options	Voltage	Finish
LPF2 -	E -	4K - 5K -	FL -	K -	-	-	-
LPF2 LytePro LED Small Floodlight 40W	E 500 mA	4K 4000K ³ 5K 5000K ³	FL Flood	K Knuckle 1/2" NPT	F1 ⁴ Single Fusing F2 ⁵ Double Fusing F3 ⁶ Double Fusing, Canada PCB ⁷ Photocontrol DM25 ^{8,9} Dynadimmer	1 120V 2 208V 3 240V 4 277V 6 347V 8 120-277V	BZ Textured Dark Bronze WH Textured White DGY Textured Dark Gray

Accessories – Ordering Guide (must be ordered separately)

Catalog #	Description
LPF2WG ^{10,11}	Wire Guard
LPF2SG ^{10,11}	Stone Guard
LFPW10BZ ^{10,11}	Bronze Wall Adapter
LFPW10WH ¹²	White Wall Adapter
LFPW10DGY ¹²	Textured Dark Gray Wall Adapter

Stocked Luminaires – Ordering Guide^{13,14,15,16}

Catalog #	Description	Master Pack, QTY	UPC Code
STKLPF2K-8	LPF2, Knuckle Mount, 120-277V	Yes, 4	786034956932

Footnotes:
 1. MTO configurations are assembled in the USA.
 2. COB denotes Chip On Board LED platform.
 3. Both 4K and 5K options have a minimum 80 CRI.
 4. 'F1' for 120, 277, 347V.
 5. 'F2' for 208, 240V.
 6. 'F3' for 208, 240V Canadian double pull.
 7. Specify voltage. 'PCB' not available with '8' universal voltage option.
 8. 'DM25' only available 120-277V and dims to 25% for 6 hours.
 9. Dynadimmer is suitable for use from -30°C to 40° temperature ambient only.

10. Limited quantities stocked in our Carrollton RDC.
 11. Contact factory for availability of large order quantities.
 12. LFPW10WH and DGY are Made to Order only.
 13. All stock products are 'BZ' Textured Dark Bronze, '4K' Neutral White and 'FL' Flood Optics.
 14. Stock LPF products ship out of our Carrollton Distribution facility within 2-days of receipt of order.
 15. Always consult factory for current inventory levels. Larger quantities may be converted to MTO if necessary.
 16. LPF2 is provided with full 4-color POP packaging.

Features

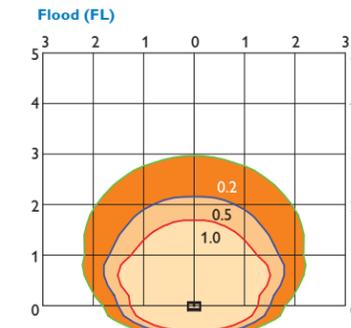
- LPF2 delivers 3,460 lumens at 40W, with an efficacy of 87 lumens per watt
- Effectively replaces equivalent 150W HID at minimum
- 4000K neutral white is standard, 5000K cool white is optional, minimum 80 CRI
- DLC certified optics provide excellent uniformity ideal for general facade, target and landscape illumination
- Fixtures are IP66 rated and suitable for use in ambients from -40°C to 40°C
- Rated system life of 100K hours for the driver and LED (>L₇₀) at ambients up to 30°C
- 5-year limited warranty, see philips.com/warranties for details
- LPF2 stocked in dark bronze, 120-277V and 4000K Neutral White for quick 2-day shipment
- Additional made to order versions available that are assembled in the USA, consult factory for current lead time

Performance Specifications

Beam Specs	Flood (FL)
Initial Lumens (4K and 5K)¹⁷	3,460
Average Wattage¹⁸	40W
Lumens/Watt	87
NEMA Beam	6H x 6V
50% beam (horizontal X vertical)	93° x 79°
10% beam (horizontal X vertical)	127° x 105°
Max Candela	1,974 cd

17. Lumen values based on photometric tests performed in compliance with IESNA LM-79.
 18. System input wattage may vary based on input voltage, by up to +/- 8%, and based on manufacturer forward voltage, by up to +/- 4%.

Photometrics

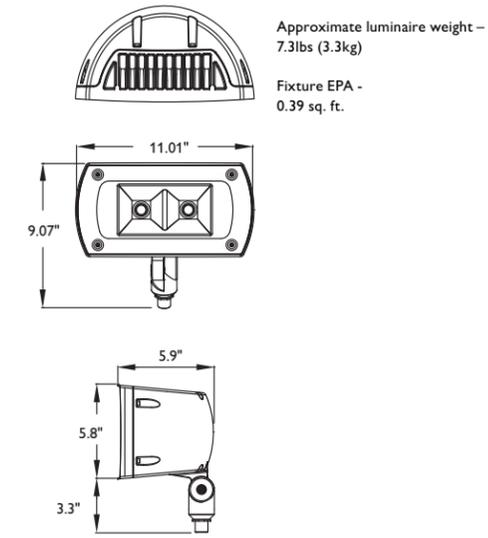


LPF2 40W - 12' Mounting Height, 30° Tilt
 Mounting Height 18 15 12 10 8
 Multiplier 0.32 0.56 1.0 1.5 2.5

Notes: Grid is in multiples of mounting height and values shown are in footcandles. Values shown are based on initial lumens.

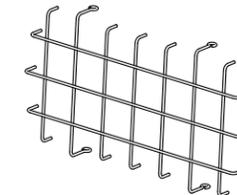
LYTEPRO LED SMALL FLOODLIGHT 40W LPF2

Dimensions

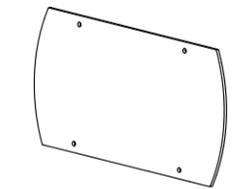


Accessory Details (must be ordered separately)

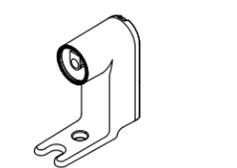
LPF2WG wire guard (field installed)



LPF2SG stone guard (field installed)



LFPW10 wall adapter (field installed)



SPECIFICATIONS

- Flexible mounting options – The versatile fixture canopy base can be mounted to a junction box or directly to a wall, ceiling, or floor. A liquid-tight cable fitting seals the canopy opening for use in damp or wet environments.
- Versatile light positioning – The locking canopy base offers friction-free rotation of up to 350°, and 110° fixture tilting lets installers quickly aim the fixture without special tools.
- Additional options for controlling and dispersing light– Designed specifically for the family of ColorBlast fixtures, accessories include top hats, half top hats, egg crate louvers, barndoors, and horizontal and vertical spread lenses.

NOTE: Lighting of sign types shall be of the appropriate level - to maintain a safe/legible and comfortable viewing distance. Field testing of light fixtures is required - to verify placement/quantity and light luminosity. Lighting shall be uniform without glare and hotspots. Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky.

The ground-mounted light fixtures proposed to illuminate the gateway signs shall be adjustable and, to the extent needed, shielded to prevent any misdirected light. The final illumination levels and degree of shielding, if any, shall be subject to the review and approval of Borough planning and engineering staff following the installation of the lights.

NOTES:

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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
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ENVIRONMENTS & EXPERIENCES

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www.merjedesign.com

DATE	06/30/16	CLIENT / PROJECT	Media Borough, PA Wayfinding and Signage System
DRAWN BY:	LH	PROJECT NO.	
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REVISIONS		SHEET NO.	F.12

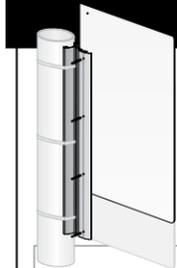


PERMA•BANNER

POLE MOUNT SYSTEM

Assembly and Installation Instructions

Carefully select the location of your sign to be sure that it will be readily visible to those for which it is intended. Before installing any sign, be sure that the installation does not obstruct traffic or hamper local utilities, landscape, maintenance, snow-plowing, etc...



Pole Mount

Step 1

Carefully unpack the frame and panel assembly from the shipping cartons. Lay the unit on the ground (use shipping cartons underneath to avoid damage). The sign should have shipped completely assembled. Remove the sign blade by backing out the set screws. It is recommended to install the extrusion only to the pole, then attach the blade back onto the extrusion once the banding and clamps are tight.

Step 2

Plan carefully, it is important to check your clearances before beginning to install Perma•Banner pole signs. Determine the direction in which the panel needs to be seen and be sure it is mounted high enough to clear vehicles on roadsides and clear raised hands in pedestrian areas.

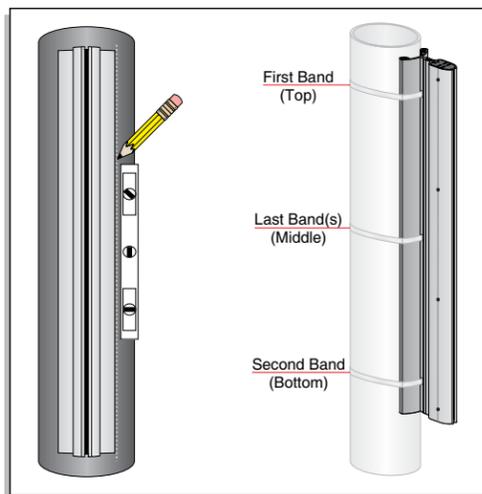
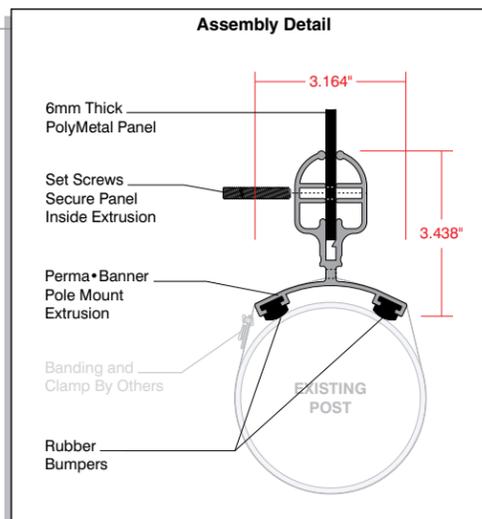
Step 3

The general idea in mounting these signs is to
 1. Fasten the top stainless steel banding and clamp it to the pole first.
 2. Then make sure the sign is level and fasten the bottom banding and tighten with clamps.
 3. Thread and tighten the banding and clamps through all the middle slots of the extrusion, making sure the extrusion stays level from top to bottom.

Note: Howard Industries recommends running the banding material through slots in the Perma•Banner and around pole two times making a "Double Band". Double Banding develops a great deal more radial compression strength than Single Banding.



Make-A-Clamp Banding Kit sold separately



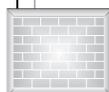
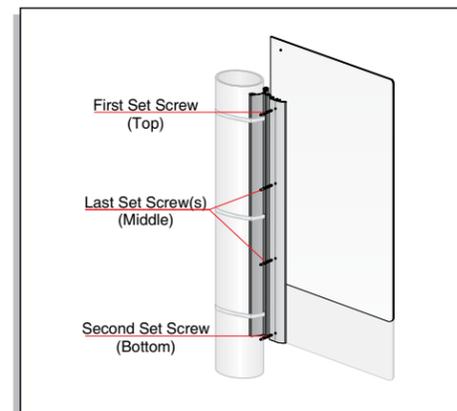
6400 Howard Drive, Fairview, PA 16415-2912 • 800/458-0591 • FAX 814/838-0011 • www.howardindustries.com



Pole Mount Continued

Step 4

Slide the sign blade into position. Line up the sign blade holes to the set screw holes.
 1. Fasten the top set screw to hold the sign blade in place.
 2. Fasten the bottom set screw, then
 3. Fasten the middle set screw(s).



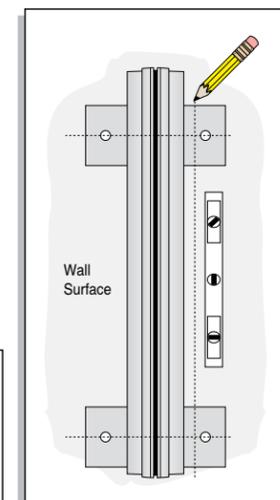
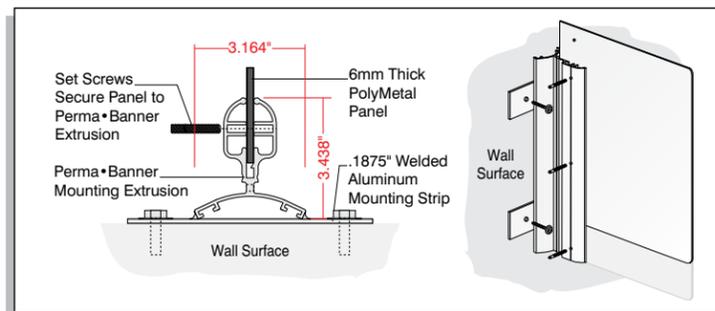
Wall Mount

Step 1

Remove the sign blade by backing out the set screws. It is recommended to install the extrusion only to the wall, then attach the blade back once the extrusion is tight to the wall.

Step 2

Place the sign extrusion in position, level, locate and mark the pre-drilled holes in the brackets on the wall. Secure all brackets to the wall surface using appropriate fasteners, not supplied. Re-attach sign blade:
 1. Fasten the top set screw to hold the sign blade in place.
 2. Fasten the bottom set screw, then
 3. Fasten the middle set screw(s).



INS-PermaBanner Rev. 03.10.15

SPECIFICATIONS

NOTES:

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ENVIRONMENTS & EXPERIENCES

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
 Wayfinding and Signage System

PROJECT NO.

SHEET TITLE

PermaBanner

SHEET NO.

F.13

ColorBlast 12 ColorBlast 6

The original exterior LED wash fixture with intelligent color light

High-performance ColorBlast LED fixtures generate rich, saturated colors and color-changing effects for a range of wall-washing and floodlighting applications. Designed with the needs of lighting designers, architects, and retail window directors in mind, ColorBlast can be used in both indoor and outdoor installations. ColorBlast 12 high-intensity LEDs produce superior light output of over 1200 lumens, while ColorBlast 6 produces a lower intensity output in a compact, low-profile housing. Both versions offer full pan and tilt rotation, flexible mounting options, two beam angles, and superior control through Philips or third-party DMX controllers.

- Two beam patterns — A frosted glass lens (22° beam angle for ColorBlast 12, 21° for ColorBlast 6) produces a soft-edge beam, while a clear glass lens (10° beam angle) affords extended light projection.
- Flexible mounting options — The versatile fixture canopy base can be mounted to a junction box or directly to a wall, ceiling, or floor. A liquid-tight cable fitting seals the canopy opening for use in damp or wet environments.
- Versatile light positioning — The locking canopy base offers friction-free rotation of up to 350°, and 110° fixture tilting lets installers quickly aim the fixture without special tools.
- Industry-leading controls — ColorBlast fixtures work seamlessly with the complete line of Philips controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, as well as third-party controllers.
- Additional options for controlling and dispersing light — Designed specifically for the family of ColorBlast fixtures by City Theatrical, Inc., accessories include top hats, half top hats, egg crate louvers, barndoors, and horizontal and vertical spread lenses.



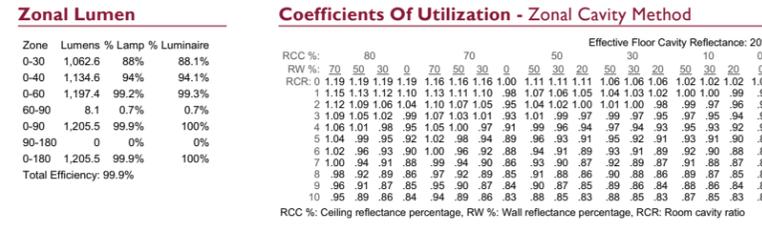
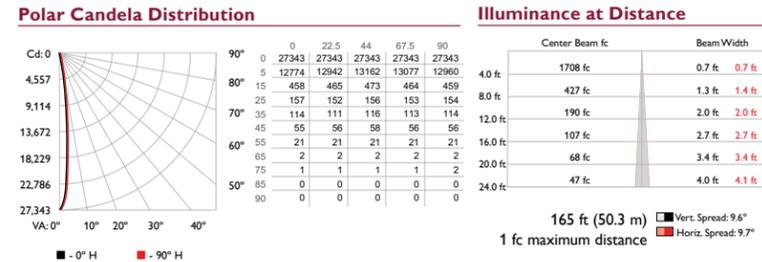
Outdoor Rated
Fully sealed for maximum fixture life and IP66 rated for outdoor applications. ColorBlast fixtures meet or exceed specifications for use in wet locations. Rugged, die-cast aluminum housing is available in white or black powder-coated finish.

ColorBlast 12 10° beam angle

LED	Lumens	Efficacy
RGB	1207	16.9

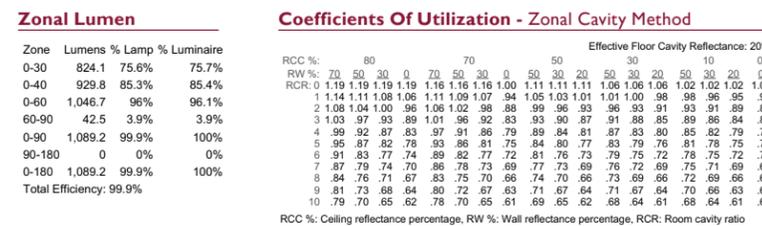
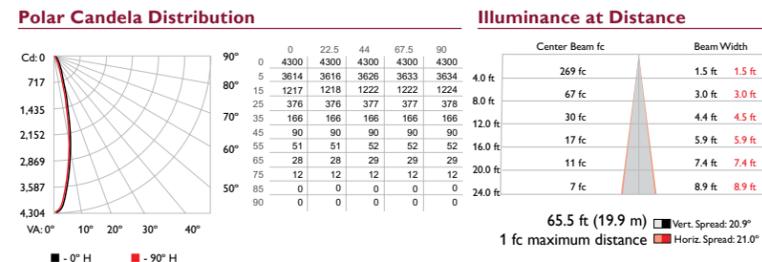
Photometrics

Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at www.philipscolorkinetics.com/support/ies.



ColorBlast 12 22° beam angle

LED	Lumens	Efficacy
RGB	1090	15.3



For lux multiply fc by 10.7

SPECIFICATIONS

- Flexible mounting options – The versatile fixture canopy base can be mounted to a junction box or directly to a wall, ceiling, or floor. A liquid-tight cable fitting seals the canopy opening for use in damp or wet environments.
- Versatile light positioning – The locking canopy base offers friction-free rotation of up to 350°, and 110° fixture tilting lets installers quickly aim the fixture without special tools.
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NOTE: Lighting of sign types shall be of the appropriate level - to maintain a safe/legible and comfortable viewing distance. Field testing of light fixtures is required - to verify placement/quantity and light luminosity. Lighting shall be uniform without glare and hotspots. Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky.

The ground-mounted light fixtures proposed to illuminate the gateway signs shall be adjustable and, to the extent needed, shielded to prevent any misdirected light. The final illumination levels and degree of shielding, if any, shall be subject to the review and approval of Borough planning and engineering staff following the installation of the lights.

- NOTES:**
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REVISIONS		
		SHEET NO.
		F.14

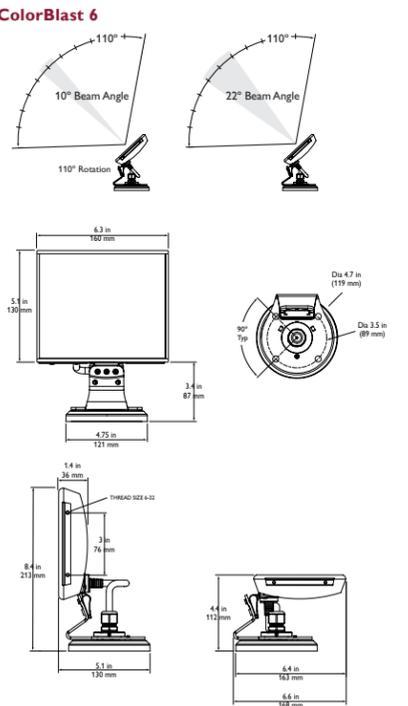
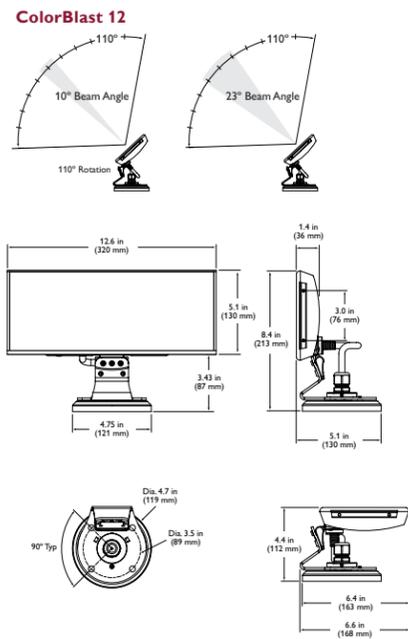
Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification	ColorBlast 6	ColorBlast 12	
Output	Beam Angle	10° / 21°	10° / 22°	
	Lumens*	584 (10° beam angle) 534 (21° beam angle)	1207 (10° beam angle) 1090 (22° beam angle)	
	LED Channels	Red / Green / Blue		
	Mixing Distance	6 in (152 mm) to uniform light		
	Lumen Maintenance†	50,000+ hours L50 @ 50° C (full output)		
Electrical	Input Voltage	24 VDC via PDS-150e or PDS-60		
	Power Consumption	25 W maximum at full output, steady state	50 W maximum at full output, steady state	
Control	Interface	PDS-150e 24V (DMX or Ethernet) PDS-60 24V (DMX, Pre-programmed, or Ethernet)		
	Control System	Philips full range of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, or third-party controllers		
Physical	Dimensions (Height x Width x Depth)	8.4 x 6.3 x 5.1 in (213 x 160 x 130 mm)	8.4 x 12.6 x 5.1 in (213 x 320 x 130 mm)	
	Weight	Net: 6.5 lb (2.95 kg) Gross: 8.4 lb (3.8 kg)	Net: 8 lb (3.65 kg) Gross: 9.8 lb (4.45 kg)	
	Housing	Die-cast aluminium, black or white powder-coated finish		
	Lens	Clear glass (10° beam angle) Frosted glass (21° beam angle)	Clear glass (10° beam angle) Frosted glass (22° beam angle)	
	Fixture Connections	60 ft (18.3 m) unified power / data cable		
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage		
	Humidity	0 – 95%, non-condensing		
	Maximum Fixtures Per Power / Data Supply	PDS-150e 24V: 6 PDS-60 24V: 2	PDS-150e 24V: 3 PDS-60 24V: 1	
	Certification and Safety	Certification	UL / cUL, FCC Class A, CE, PSE, C-Tick, SAA, CQC	
		Environment	Dry / Damp / Wet Location, IP66	

* Lumen measurement complies with IES LM-79-08.
 † L50 = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.philipscolorkinetics.com/support/appnotes/ for more information.
 ‡ These figures, provided as a guideline, are accurate for this configuration only. Changing the configuration can affect the fixture run lengths.

CHROMACORE OPTIBIN CKTECHNOLOGY CKTECHNOLOGY



Included in the box

- ColorBlast 6 or ColorBlast 12 fixture
- (2) 8-32 screws for indoor installation
- (4) 10-24 stainless steel screws for outdoor installation
- Watertight grommet assembly
- 3/32 in hex key wrench for fixture positioning and locking
- Junction box gasket
- Installation Instructions

Fixtures, Power / Data Supplies, and Controllers

ColorBlast 6 and ColorBlast 12 fixtures are part of a complete system which includes:

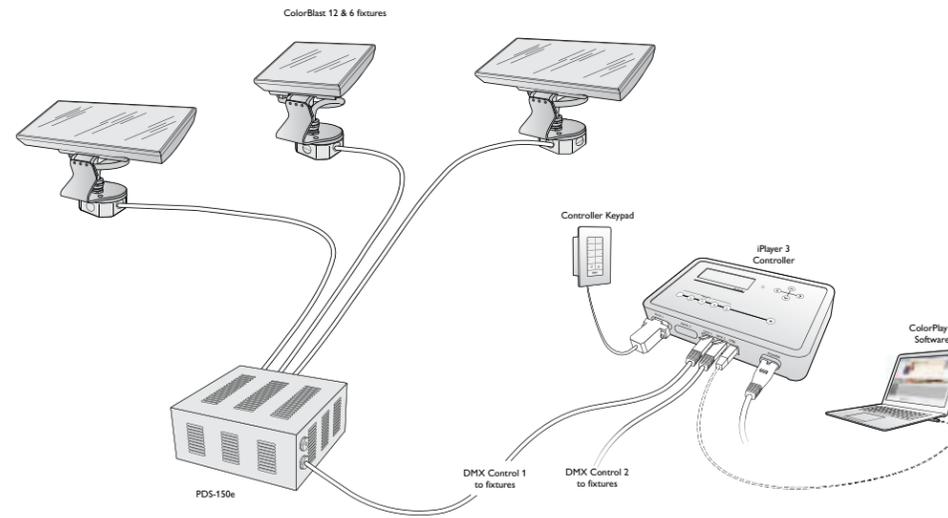
- One or more power / data supplies
- Any Philips controller, including Light System Manager and iPlayer 3, or a third-party DMX controller

Item	Type	Housing Color	Item Number	Philips 12NC
ColorBlast 12	22° Beam Angle	White	116-000025-00	910503700589
	10° Beam Angle	White	116-000025-02	910503700591
	22° Beam Angle	Black	116-000025-01	910503700590
ColorBlast 6	10° Beam Angle	Black	116-000025-03	910503700592
	21° Beam Angle	White	116-000026-00	910503700593
	10° Beam Angle	White	116-000026-02	910503700595
	21° Beam Angle	Black	116-000026-01	910503700594
	10° Beam Angle	Black	116-000026-03	910503700596
PDS-150e 24V	DMX / Ethernet		109-000008-01	910503700092
PDS-60 24V	Pre-programmed		109-000017-00	910503700096
	DMX / Ethernet		109-000017-03	910503700097

Use Item Number when ordering in North America

Typical ColorBlast installation

For detailed wiring diagrams visit www.philipscolorkinetics.com/support/wiring/lis_prod.html



SPECIFICATIONS

- Flexible mounting options – The versatile fixture canopy base can be mounted to a junction box or directly to a wall, ceiling, or floor. A liquid-tight cable fitting seals the canopy opening for use in damp or wet environments.
- Versatile light positioning – The locking canopy base offers friction-free rotation of up to 350°, and 110° fixture tilting lets installers quickly aim the fixture without special tools.

- Additional options for controlling and dispersing light– Designed specifically for the family of ColorBlast fixtures, accessories include top hats, half top hats, egg crate louvers, barndoors, and horizontal and vertical spread lenses.

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DATE 06/30/16

CLIENT / PROJECT

DRAWN BY: LH

Media Borough, PA
 Wayfinding and Signage System

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PROJECT NO.

SHEET TITLE

Phillips Colorblast Color Changing LED Floodlight

REVISIONS

SHEET NO.

F.15

Accessories

Designed specifically for the family of Blast fixtures, accessories provide additional options for controlling and dispersing light. Accessory holders snap to the front of the fixture and are required for mounting accessories. Accessory holders prevent accessories from falling out if the fixture is tipped or hung upside down.

Item	Type	Housing Color	Item Number	Philips 12NC
Accessory Holders	ColorBlast 12	White	120-000003-03	910503702839
		Black	120-000003-04	910503702840
	ColorBlast 6	White	120-000004-03	910503702841
		Black	120-000004-04	910503702842
Half Top Hats	ColorBlast 12	White	120-000009-03	910503702847
		Black	120-000009-04	910503702848
	ColorBlast 6	White	120-000010-03	910503702849
		Black	120-000010-04	910503702850
Top Hats	ColorBlast 12	White	120-000005-03	910503702843
		Black	120-000005-04	910503702844
	ColorBlast 6	White	120-000006-03	910503702845
		Black	120-000006-04	910503702846
Egg Crate Louvers	ColorBlast 12	White	120-000015-03	910503702851
		Black	120-000015-04	910503702852
	ColorBlast 6	White	120-000016-03	910503702853
		Black	120-000016-04	910503702854
Barndoors	ColorBlast 12	White	120-000019-03	910503702855
		Black	120-000019-04	910503702856
	ColorBlast 6	White	120-000020-03	910503702857
		Black	120-000020-04	910503702858
Horizontal Glass Spread Lens*	ColorBlast 12	36° (ribs out) / 50° (ribs in)	120-000025-00	910503703897
	ColorBlast 6	36° (ribs out) / 50° (ribs in)	120-000026-00	910503703899
Horizontal / Vertical Glass Spread Lens*	ColorBlast 12	40°	120-000025-01	910503703898
	ColorBlast 6	40°	120-000026-01	910503702772

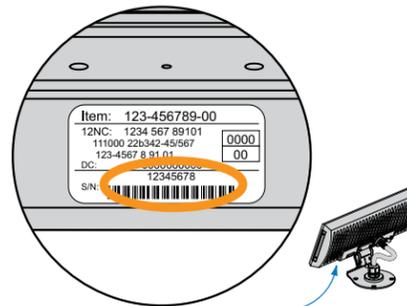
* Intended for use with Blast fixtures with 10° clear lens

Use Item Number when ordering in North America.



☒ Refer to the ColorBlast 6 and ColorBlast 12 Installation Instructions for specific warning and caution statements.

Record fixture serial numbers



☒ For complete instructions on how to wire the power / data supply, refer to the specific power / data supply's Installation Guide or Specification Sheet. For sample wiring diagrams, visit www.philipscolorkinetics.com/support/wiring/l_s_prod.html

Installation

ColorBlast offers rich, saturated wall-washing color and color-changing effects, both indoors and outdoors. Both ColorBlast 12 and ColorBlast 6 are low-voltage fixtures, intended for use with the power / data supplies PDS 150e 24V and PDS-60 24V from Philips Color Kinetics.

Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate ColorBlast fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

Installing in Wet or Damp Locations

When installing in wet or damp locations, it is good practice to seal all fixtures and junction boxes with electronics-grade RTV silicone sealant to ensure that moisture cannot enter or accumulate in wiring compartments, cables, or other electrical parts. You must use suitable outdoor-rated junction boxes when installing in wet or damp locations. Additionally, you must use gaskets, clamps, and other parts required for installation to comply with all applicable local and national codes

Create a Lighting Design Plan and Layout Grid

1. Determine the appropriate location of each power / data supply in relation to the fixtures, and of the fixtures in relation to each other. Refer to the power / data supply's Installation Instructions or Specification Sheet for guidelines on configuring and positioning the power / data supply in relation to the controller.

With the native 60 ft (18.3 m) power / data cable supplied with each fixture, you can connect up to three ColorBlast 12 fixtures to each PDS-150e, or one ColorBlast 12 fixture to each PDS-60. You can connect up to six ColorBlast 6 fixtures to each PDS-150e, or up to two ColorBlast 6 fixtures to each PDS-60. Using 18 AWG, 3-conductor stranded copper wire, you can extend the cable for each individual fixture to a maximum length of 150 ft (45.7 m), as long as the total cable length for each power / data supply does not exceed 400 ft (121.9 m).

2. On an architectural diagram or other diagram that shows the physical layout of the installation, identify the locations of all switches, controllers, power supplies, fixtures, and cables.

3. Each ColorBlast fixture comes pre-programmed with a unique serial number. As you unpack the fixtures, record the serial numbers in a layout grid (typically a spreadsheet or list) for easy reference and light addressing.

4. Assign each fixture to a position in the lighting design plan.

5. To streamline installation and aid in light show programming, you can affix a weatherproof label identifying the order or placement in the installation to an inconspicuous location on each light fixture's housing.

Start the Installation

1. Install all power / data supplies, including any interfaces with controllers. Power / data supplies and external controllers send power and control signals to the fixtures over the single fixture cable.

2. Ensure that the number of free power / data supply power ports is adequate.

3. Verify that all additional supporting equipment (switches, controllers) is in place.

SPECIFICATIONS

• Flexible mounting options – The versatile fixture canopy base can be mounted to a junction box or directly to a wall, ceiling, or floor. A liquid-tight cable fitting seals the canopy opening for use in damp or wet environments.

• Versatile light positioning – The locking canopy base offers friction-free rotation of up to 350°, and 110° fixture tilting lets installers quickly aim the fixture without special tools.

• Additional options for controlling and dispersing light– Designed specifically for the family of ColorBlast fixtures, accessories include top hats, half top hats, egg crate louvers, barndoors, and horizontal and vertical spread lenses.

NOTE: Lighting of sign types shall be of the appropriate level - to maintain a safe/ legible and comfortable viewing distance. Field testing of light fixtures is required - to verify placement/quantity and light luminosity. Lighting shall be uniform without glare and hotspots. Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky.

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Media Borough, PA
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PROJECT NO.

SHEET TITLE

Phillips Colorblast Color Changing LED Floodlight

REVISIONS

SHEET NO.

F.16

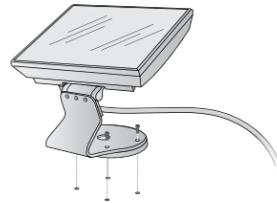
4. Ensure that all additional parts and tools are available, including:
- The included 8-32 screws for indoor installations, or the 10-24 stainless steel screws for outdoor installations
 - The included 3/32 in hex key wrench
 - The included junction box gasket (optional)
 - Unless mounting directly to a wall, ceiling, or other surface, one 4 in (102 mm) round US electrical junction box per fixture, rated for your application, with 3.5 in (89 mm) center-to-center screw holes for attaching the fixture's base. (Refer to the junction box manufacturer's literature for additional items required for mounting or sealing.)
 - Conduit as required
 - Contractor-grade room temperature vulcanizing (RTV) silicone sealant

Install the Fixtures

If installing ColorBlast fixtures indoors, you can mount the fixtures directly to a wall, ceiling, or other suitable surface. For outdoor installations, and optionally for indoor installations, you install ColorBlast fixtures to a junction box. In wet or damp locations, you must ensure that all junction boxes are suitable for the environment and sealed, if necessary.

Mounting ColorBlast Directly to a Surface

1. Determine the fixture mounting locations as specified in the lighting design plan.
2. Ensure that the fixture sits flush to the mounting surface.
3. Using the provided 8-32 screws, attach the fixture to the mounting surface.

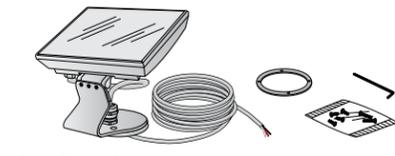


4. Repeat steps 2 and 3 for each fixture in the installation.

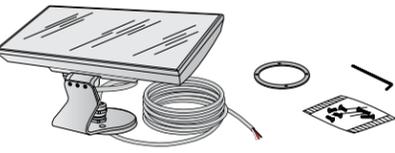
Mounting ColorBlast to a Junction Box

1. Mount junction boxes in accordance with the lighting design plan. Each fixture is designed for mounting in a 4 in (102 mm) round US electrical junction box, rated for your application, with 3.5 in (89 mm) center-to-center screw holes for attaching the fixture's base.
2. Screw the included grommet assembly into the fixture's base. If installing in a wet or damp location, seat the O-ring securely against the opening in the fixture base to ensure a watertight seal.
3. Insert the fixture cable through the grommet's dome nut, loosening the dome nut if necessary, and the fixture's base. Leave enough cable above the dome nut to allow full fixture rotation.
4. Tighten the dome nut to seal the cable. After 24 hours, tighten the dome nut again to ensure a proper seal.

ColorBlast 6



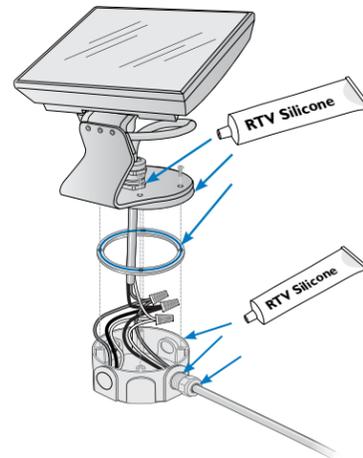
ColorBlast 12



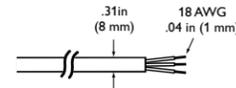
Included in the box

ColorBlast 6 or ColorBlast 12 fixture
(2) 8-32 screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
Watertight grommet assembly
3/32 in hex key wrench for fixture positioning and locking
Junction box gasket
Installation Instructions

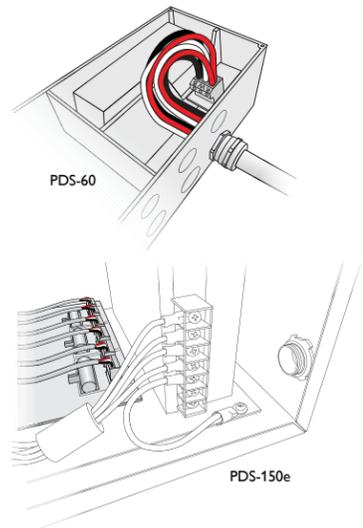
⚠ If installing in a wet or damp location, you must mount fixtures to outdoor-rated junction boxes, as described below.



Fixture cable connector dimensions



ColorBlast 12 wiring

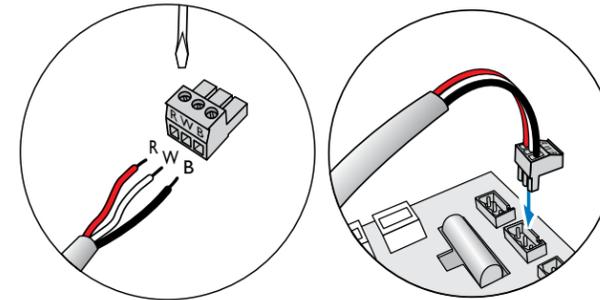


5. Insert the fixture cable through the provided junction box gasket, and pull the cable through the junction box.
6. If installing in a wet or damp location, seal all junction boxes with contractor-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.
7. Using the provided 10-24 stainless steel screws, attach the fixture base to the junction box, ensuring that the gasket is compressed evenly.
8. Repeat steps 2 through 7 for each fixture in the installation.

Make Power Connections

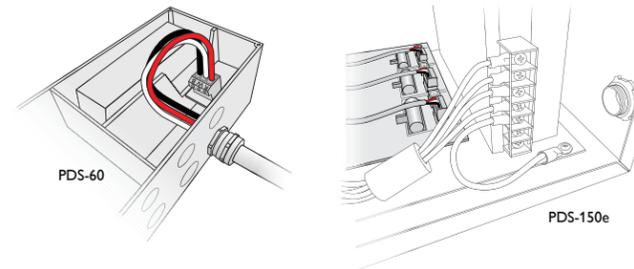
Make sure the power is OFF before mounting and connecting ColorBlast fixtures.

1. Pull cables from the fixtures to the power / data supply.
2. Pull each fixture cable through a knockout in the side of the power / data supply.
3. Connect line, common, ground, and data to a provided connector, then snap the connector into the connector terminal inside the power / data supply housing.



4. Using wire nuts, connect the green ground wire from each fixture cable to the earth ground on the power / data supply.

ColorBlast 6 wiring



4. Repeat for each power / data supply in your installation.

SPECIFICATIONS

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REVISIONS

SHEET NO.

F.17

Attach Safety Cable (Optional)

Each ColorBlast fixture is designed for use with a safety cable to tether it to a secure anchor point. When dictated by local or state code or advised by a structural engineer, attach a safety cable to the bracket on the back of the fixture. Remove the two screws that attach the cable bracket, loop the safety cable over the cable bracket, and reattach to the fixture. Attach the safety cable to the mounting surface using a method that follows the code or engineer's requirements.

Address and Configure the Fixtures

Make sure the power is ON before addressing and configuring fixtures.

Each ColorBlast fixture uses three sequential DMX channels or addresses, one for red, one for green, and one for blue. ColorBlast fixtures come factory-addressed to DMX channels 1 (red), 2 (green), and 3 (blue).

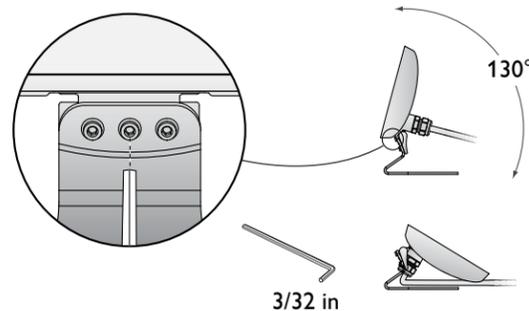
For lighting designs where fixtures work in unison, all fixtures can be assigned the same DMX addresses. Changes to the default addresses are not necessary, but if lights were previously readdressed for use in other installations, you must reset them. For light show designs that show different colors on different fixtures, you must assign unique DMX addresses to your fixtures and sort them in a useful order.

- In Ethernet installations, you can address and configure your fixtures using QuickPlay Pro with a computer connected to your lighting installation's network. QuickPlay Pro can automatically discover all of your fixtures, controllers, and Data Enabler Pro devices for quick configuration.
- In DMX installations, you can address and configure your fixtures using QuickPlay Pro with iPlayer 3 or SmartJack Pro. You can manually enter fixture serial numbers, or you can import a spreadsheet listing each fixture's serial number and starting DMX address.

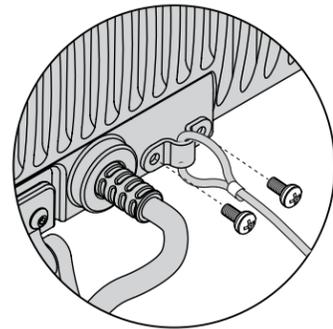
For complete details on addressing and configuring fixtures, controllers, and power / data supplies with QuickPlay Pro, refer to the *Addressing and Configuration Guide*, which you can view or download at www.philipscolorkinetics.com/support/addressing/.

Aim and Lock the Fixtures

Using the provided 3/32 in hex key wrench, loosen the rotation and tilting set screws. Aim the fixtures by rotating the base and tilting the beam as desired. Tighten the two pairs of set screws to lock the fixture in place.



Safety cable bracket location on fixture



Safety cable minimum requirements

Material	316 Stainless Steel
Size	5/64 to 3/16 in (2 to 5 mm) nominal diameter. Minimum break load must be greater than 400 lb (181 kg)
Construction	7 x 7 (49 wires) preformed stranded

⚠ You can download QuickPlay Pro from www.philipscolorkinetics.com/support/addressing/

⚠ You will need the layout grid that you created when you recorded the serial numbers of the light fixtures in your installation.

⚠ Do not look directly into the fixture when aiming and locking.

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Media Borough, PA
Wayfinding and Signage System

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Phillips Colorblast Color Changing LED Floodlight

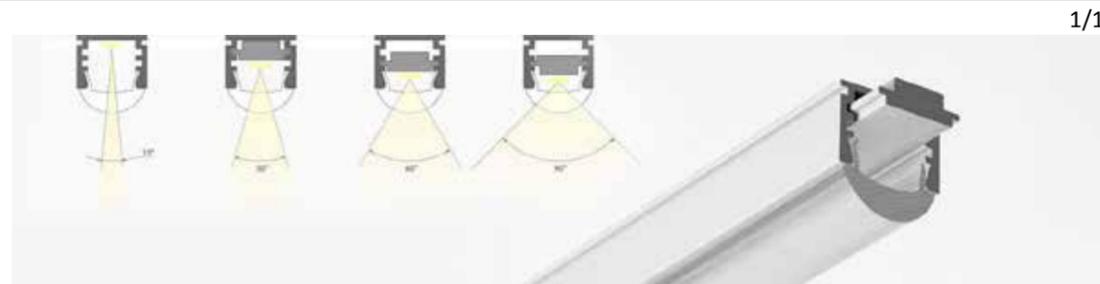
SHEET NO.

F.18



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Fax 617.423.9998
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Cover Photo: Soundbar, courtesy of Michael Dreas
DAS-000034-00 R03 04-12



1/1

DATA SHEET

REGULOR LED extrusion – article number B468+43

Product characteristics

The extrusion is made from high quality, double-anodized aluminum and designed for flexible or rigid LED strips that are 8 - 10mm wide. One of the accessories offered for the extrusion are covers that shade and protect LEDs inside the profile. The available types of covers are: covers K, HS (frosted or clear), LIGER (frosted matte) or clear focusing cover- S. Covers are made of polycarbonate and additionally, HS covers are certified for excellent resistance to all weather conditions and UV radiation, as well as being flame retardant. The unique characteristic of the Regular extrusion is an aluminum insert that permits manipulation of the angles of the diode's lighting. We can attain further angles of lighting by using the focusing cover "S" and putting the insert into the extrusion in the proper notch. If these two conditions are utilized, then it's possible to get the following angles of light: 10 degree (without insert) and 30°, 60°, 90° (depending on the insert position).

Standard polypropylene end caps and mounting brackets (made of steel with zinc or chrome finish) are used for the extrusion as supplementary accessories. End caps protect the extrusion from dust and other undesirable elements, which can make LED strips dirty and consequently deteriorate the lighting parameters.

The extrusion can be mounted to surfaces with the use of double-sided adhesive tape or mounting brackets. The mounting bracket guarantees easy and secure mounting of the extrusion to a desired surface. It can also work as a connector between two extrusions. Installation of the profile in drywall is performed using special PDS springs (index 00800). If you would like to mount the profile in an Armstrong drop ceiling with the use of PDS springs, we recommend special safety washers (42712).

An integrated, straight line of light can be achieved by assembling: the extrusion, densely spaced LEDs (minimum 140 LEDs per meter) and frosted HS cover or frosted matte LIGER cover (minimum 120 LED per meter). This LED fixture can also be assembled to be waterproof and has its ingress protection rating (describes the protection against the ingress of solids, dust and water) equal to IP 67.

For mounting and power supply of extrusions, the elements from the mounting system presented on www.KlusDesign.com can be used.

Applications

The extrusion with LED light source is mostly used as interior lighting, especially to light cabinets, stairs, glass-cases, or as a decoration light for a niche in drywall ceilings. The IP 67 version can be used as outdoor lighting for elevations or architectural elements.

Products related to the Extrusion



cover type K/KA-BIS
frosted (1547/17071)
clear (1548/17072)
cover type LIGER
frosted matte (17031)



cover type HS
frosted (1369)
clear (1370)



cover type S
clear (00220)



end cap
without hole (00310)
with hole (00313)



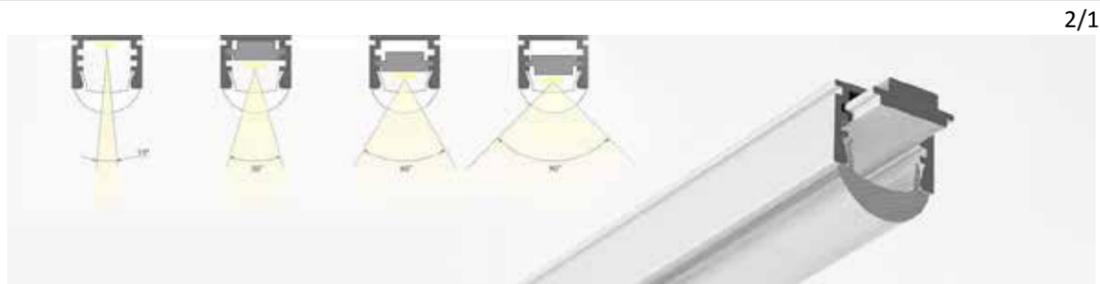
mounting bracket
zinc (1072)
chrome matt. (1345)



www.KlusDesign.com

We reserve the right to change and modify our products.

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2/1

DATA SHEET

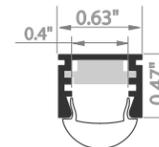
REGULOR LED extrusion – article number B468+43

Technical specification

Ingress Protection Rating	IP 20 (standard), IP 67 (optional)
Available lengths	1 m / 2 m (can be cut to any size)
Material	body – aluminum, cover – polycarbonate (PC), end cap – polypropylene (PP), mounting bracket, spring – steel



**sample item from the mounting system of profiles



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The ground-mounted light fixtures proposed to illuminate the gateway signs shall be adjustable and, to the extent needed, shielded to prevent any misdirected light. The final illumination levels and degree of shielding, if any, shall be subject to the review and approval of Borough planning and engineering staff following the installation of the lights.

NOTES:

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

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DATE 06/30/16

DRAWN BY: LH

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE

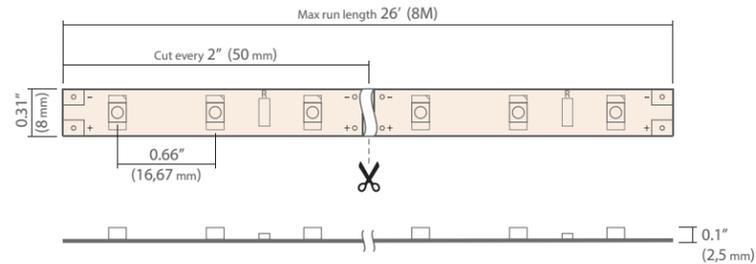
KLUS Regulor LED Extrusion

SHEET NO.

F.19



Flexible LED Strip 4.8 Watt / M, IP 65



Product code No.	Color Temp.	Watts/ Meter Watts/ Foot	LEDs/ Meter LEDs/ Foot	Lumens / Meter Lumens/ Foot	CRI	LED Chip Type	Beam Angle	Input Voltage
WP-K-27-1210	2700K	4.8 W/M 1.5 W/F	60 LEDs/M 18 LEDs/F	300 L/M 95 L/F	90+	Epistar 3528	140°	12V
WP-K-30-1210	3000K	4.8 W/M 1.5 W/F	60 LEDs/M 18 LEDs/F	320 L/M 100 L/F	90+	Epistar 3528	140°	12V
WP-K-35-1210	3500K	4.8 W/M 1.5 W/F	60 LEDs/M 18 LEDs/F	345 L/M 105 L/F	90+	Epistar 3528	140°	12V
WP-K-40-1210	4000K	4.8 W/M 1.5 W/F	60 LEDs/M 18 LEDs/F	370 L/M 125 L/F	90+	Epistar 3528	140°	12V



Water and dust resistant – IP 65

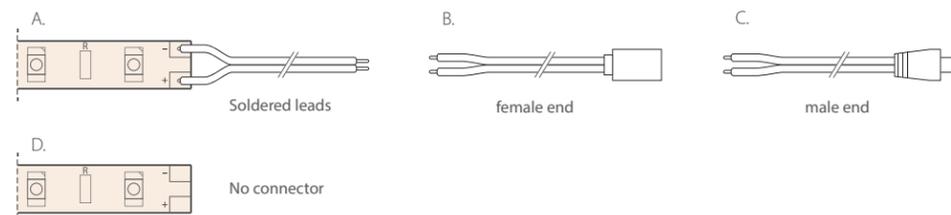
Protects against:

- Rain and humidity
- Water splash
- Dust and dirt
- Water jets
- Particles



Wire options:

36"-72" wire leads (20 gauge jacketed wire)



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We reserve the right to change and modify our products.

2501 27th Ave, Suite F-10, Vero Beach, FL 32960 / United States / Customer Service: sophia@klusdesign.com / (Ph.) 772 321 2260, 772 569 6655

SPECIFICATIONS

- Flexible mounting options – The versatile fixture canopy base can be mounted to a junction box or directly to a wall, ceiling, or floor. A liquid-tight cable fitting seals the canopy opening for use in damp or wet environments.
- Versatile light positioning – The locking canopy base offers friction-free rotation of up to 350°, and 110° fixture tilting lets installers quickly aim the fixture without special tools.
- Additional options for controlling and dispersing light– Designed specifically for the family of ColorBlast fixtures, accessories include top hats, half top hats, egg crate louvers, barndoors, and horizontal and vertical spread lenses.

NOTE: Lighting of sign types shall be of the appropriate level - to maintain a safe/ legible and comfortable viewing distance.
Field testing of light fixtures is required - to verify placement/quantity and light luminosity. Lighting shall be uniform without glare and hotspots. Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky.

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NOTES:

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

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REVISIONS		PROJECT NO.
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		<p>KLUS Regolor LED Extrusion LED Strips</p>
		SHEET NO.
		F.20

G | Performance Specifications

SIGNAGE TECHNICAL SPECIFICATIONS

Section 10 14 00

PART 1 - GENERAL

1. Description
 - A. Project Information
 1. Project Location: Media Borough, PA
 2. Owner: The Borough of Media
 3. Administrator: Karen Trussig-Lux
 4. Design Team: MERJE - West Chester, PA
 - B. Related Documents
 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
 - C. Project Summary
 1. Project consists of Gateway signs, Vehicular post and panel signs, Parking signs, Identification signs and Informational kiosks.
 2. General sign components consist of footings, custom fabricated poles, surface painted sign panels, "High Intensity Grade" reflective vinyl copy/arrows and graphic artwork.
 3. All exposed surfaces shall receive a graffiti protectant clear coating.
 4. Installations shall require manual and machine digging/drilling into concrete or brick paver sidewalks as well as soil. Where unforeseen conditions present themselves, the fabricator will be responsible for engineering spread footers, meeting the same requirements as outlined in the design intent drawings at no additional cost to the owner.
 5. On-going coordination and sequencing will be required with current streetscape programs based on construction and installation schedules. In order to minimize impacts to existing utilities, the fabricator is responsible for contacting the One-Call system prior to installation and shall identify this process within a critical path project schedule chart.
 6. Representatives from the Owner and Design Team will be available to review locations where a conflict presents itself. Custom mounting methods may be required for locations that interfere with underground utilities.
 7. Breakaway poles are required at locations along State and City roads, The final design and certification of these poles shall be the responsibility of the Fabricator. Approval of these designs is required by the Design Team and Owner.
 - D. Allowances
 1. Allowances for signage are specified in Section 01 21 00 "Allowances"
 - E. Contract
 1. Project will be constructed under a general construction contract.
 - F. Reference Standards
 1. AA: Aluminum Association, Washington, DC.
 2. AAMA: American Architectural Manufacturer's Association
 3. ACI: American Concrete Institute
 4. ADA-ABA Accessibility Guidelines: U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines."
 5. ANSI: American National Standards Institute.
 6. ASTM: American Society for Testing and Materials, Philadelphia, PA, as published in "Compilation of ASTM Standards in Building Codes."
 7. AWS: American Welding Society, as published in AWS D1.1 "Structural Welding Code, Steel," and AWS D1.2 "Structural Welding Code, Aluminum."
 8. ICC: International Code Council, Inc.

9. NAAMM: National Association of Architectural Metal Manufacturers, Glen Ellyn, IL, as published in "Metal Finishes Manual."
 10. NFPA: National Fire Protection Association
 11. UBC: United States Uniform Building Code.
 12. UL: Underwriters Laboratories, Inc., Northbrook, IL
- G. Definitions
 1. Fabricator: Term used for agent responsible for fabrication, installation, management and coordination of executing work within the documents.
 2. Surface: Any horizontal or vertical plane capable of receiving construction activities or finishes, such as walls, pavements, and sign faces.
 3. Substrate: A substance or layer that underlies something, or on which some process occurs.
 4. V.I.F.: Verify in Field
 5. T.B.D.: To Be Determined
 6. A.F.F.: Above Finished Floor
 7. C.L.: Center Line
 8. O.C.: On Center
 9. O.A.D.: Overall Dimension
2. Scope of Work
 - A. Included Work
 1. Provision of labor, materials, and equipment necessary to complete the work of this section, which shall include but not be limited to the following Sign Types:
 - a. Sign Type 000.00 - Sign Type Description
 - b. Sign Type 000.00 - Sign Type Description
 - c. Sign Type 000.00 - Sign Type Description
 - d. Sign Type 000.00 - Sign Type Description
 2. Attention is directed to Fabricators responsibilities for existing conditions survey, existing sign removal, existing interfering item removal, surface restoration, phased installation, submittals and shop drawings, engineering, and coordination with other trades as specified.
3. Coordination
 - A. Pre-Construction Meeting
 1. A pre-construction meeting will be held at a time and place designated by the Owner and Administrator for the purpose of clarification of the project and for the purpose of identifying responsibilities of the Owner, Administrator and the Fabricators personnel as well as explanation of administrative procedures.
 - B. Coordination / Templates
 1. Furnish templates for placement of sign-anchorage devices embedded in permanent construction by other installers.
 2. Furnish templates for placement of electrical service embedded in permanent construction by other installers.
 3. Furnish templates for field verification and placement of dimensional lettering prior to installation by Fabricator.
4. Action Submittals
 - A. General
 1. Fabricator shall schedule shop drawings, message layouts, product data, and sample submittals for delivery as agreed in the Pre-Construction Meeting. 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.
 - B. Revisions and Resubmittals
 1. Fabricator should allow for several rounds of revisions and resubmittals to all submittals including shop drawings, message layouts and material samples. Project schedule shall allow appropriate time for this process.
 - C. Shop Drawings
 1. Shop Drawings must be provided by the Fabricator to the Owner and Designer for approval prior to fabrication.

PERFORMANCE SPECIFICATIONS

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REVISIONS		SHEET NO.	G.1

PERFORMANCE SPECIFICATIONS

- 2. Drawings should include all relevant plans, elevations, sections, and details of fabrication and installation.
- 3. Drawings shall indicate all materials, shapes, extrusion-types, dimensions, finishes, anchorage, fastening, and methods of connection.
- 4. Drawings shall indicate proper font style, letter spacing and dimensions of character heights.
- 5. Drawings shall be drafted to an architectural scale clearly indicated on the drawing.
- D. Samples
 - 1. Submit color and material samples showing the full range of colors, textures and patterns.
 - 2. Mount, display or package samples in a manner as to facilitate review of qualities indicated.
 - 3. Prepare samples to match designers sample where so indicated. Attach label on an unexposed side that includes the following:
 - a. Generic description of sample
 - b. Product name or name of Product Manufacturer
 - c. Sample Source
 - 4. Samples for Verification
 - a. Examples of all graphic image process, including materials, methods, colors and finishes for maps, imagery, letters, numbers and other graphic devices.
 - b. Three sets of all color samples, including paint and vinyl samples on thin aluminum plates (approx. 3" x 6").
 - c. Two sets of material samples
 - d. Sample fasteners, hardware and mounting hardware sufficient to obtain clear ideas of how signs are fabricated, made changeable and installed.
 - 5. Submit full scale, non-returnable workmanship samples of the following Sign Types:
 - a. Sign Type VDIR.2 - Sign Type Description
Not to be job used. Freight Delivery to Designer for approval.
 - b. Sign Type PED.1 - Sign Type Description
Not to be job used. Freight Delivery to Designer for approval.
 - c. Sign Type PARK.1 - Sign Type Description
Not to be job used. Freight Delivery to Designer for approval.
 - 6. Message Layouts (message schedule): Includes Sign Types noted in Design Intent Drawings.
 - a. Fabricator shall submit scale elevations of each sign location for approval of message, typographic spacing, line breaks, alignments, and graphic layout, using same designations as Design Intent drawings for Owner and Designer approval.
 - b. Scale elevations shall include: graphic representation of all sign components (ex. Sign Panel, Header Panel, Mounting Bracket, etc.), project colors, and all copy, graphic icons, and symbols.
 - 7. Typefaces
 - a. Submit full sample of each typeface specified, at min. 5/8" cap height on 11" x 17" laser prints, for approval prior to message layout preparation and sign fabrication.
 - b. Sample(s) shall include uppercase, lowercase, numerals, and punctuation, as well as samples of specified letter spacing and word spacing.
 - 8. Artwork
 - a. Submit artwork of all symbols and logos to be used, at specified heights in design intent drawings on 11" x 17" laser prints, for approval prior to message layout preparation and sign fabrication.
- E. Requests for Information (RFIs)
 - 1. Fabricator shall allow four (10) business days for response to each RFI from the date of receipt.

- 2. Fabricator shall not submit more than two (2) RFI per business day.
- 3. Fabricator shall maintain a tabular log of RFIs and submit RFI log at progress meetings.
- F. Approvals
 - 1. Fabrication shall not commence prior to field verification of all measurements by Fabricator and approval of shop drawings (and/or other relevant submittals) by the Owner.
 - 2. If Fabricator procures materials or products prior to approval of shop drawings and approval of other relevant submittals, they do so at their own risk.
 - 3. Installation shall not commence prior to Owner verification of sign locations.
 - 4. Owner's submittal review shall be for general conformance with the requirements of the Contract only; any deviations not clearly indicated by Fabricator will not be reviewed.
 - 5. Submittal review by Owner shall not serve to relieve Fabricator of responsibility for meeting obligations and requirements of the Contract and Documents.
 - 6. The owner 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.
 - 7. Any such decision will be considered final and not subject to recourse.
- 5. Informational Submittals
 - A. Fabricator Qualifications
 - 1. Fabricator shall provide evidence that they regularly and presently manufacture signs similar to those specified in this documentation as one of their principal products.
 - 2. Fabricator shall employ skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of successful in-service performance of not less than five (5) years.
- 6. Closeout Submittals
 - A. Maintenance Data
 - 1. For signs to include in maintenance manuals.
 - B. As-Built Drawings
 - 1. For ongoing reorders.
- 7. Quality Assurance
 - A. Engineering
 - 1. The Drawings in this document represent design intent only.
 - 2. Fabricator shall be responsible for the proper engineering of all items to withstand the conditions and abuses of their environment.
 - 3. Fabricator shall inform the Owner of any product and/or material deficiencies or incompatibilities that will prevent the signs from withstanding the conditions and abuses of their environment. Signs must be securely mounted.
 - 4. Fabricator is responsible for suggesting alternate fabrication or installation methods, if required to prevent theft, vandalism, and/or to improve structural stability.
 - 5. All items shall be engineered to accommodate all load requirements as determined by Fabricator. Load requirements shall include, but shall not be limited to, shear load and design load as required. Signs shall be engineered and installed so that final mounting weight shall not affect ongoing stability of mounted sign or surrounding conditions.
 - B. Regulatory Compliance
 - 1. All installation work by Fabricator shall comply with applicable municipal, state and federal codes, sign ordinances, ICC/ANSI A117.1, DOJ 2010 Standards for Accessible Design (ADA) guidelines and NFPA 101 fire/life safety signing.
 - 2. All OSHA safety requirements will be implemented during fabrication and installation as needed or required to comply with local Owner or City safe-

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REVISIONS		SHEET TITLE
		Performance Specifications
		SHEET NO.
		G.2

- ty regulations.
- C. Protection and Storage
1. Fabricator is responsible for storage of signs and assemblies and protection from damage at the shop, in transit and until installed in place, complete, inspected and accepted by Owner.
 2. Signs should be packaged to prevent damage or deterioration during shipment, handling, storage and installation. Maintain protective covering in place and in good repair until removal is necessary.
 3. Deliver signs only when the site and services are ready for installation work to proceed.

- D. Inspection
1. Production materials, samples and paints, fabricated or partially fabricated items shall be available for inspection, on-site or in the shop by the Owner or Designer during the manufacturing process and until final delivery, installation and acceptance.
 2. Shop inspection and/or approvals in the shop do not guarantee final acceptance of installed work.

8. Workmanship / Performance

- A. General
1. Assemblies and components shall be completely fabricated and finished in shop; to the extent practical, all work shall be delivered to the job site completely assembled.
 2. Construct to accurate detail and dimension as shown and reviewed on Shop Drawings.
 3. Except where indicated, exposed fasteners shall not be visible on finished work.

- B. Seams and Joints
1. All components shall fit accurately with hairline joints.
 2. Added joints shall be filled and ground smooth, and shall not be visible in the finished work.
 3. Gaps are not acceptable in finished work.

- C. Metal Signs and Supports
1. Exposed surfaces shall be uniformly flat and smooth, without distortion, pitting, waviness or 'oil-canning,' and free of blemishes.
 2. Exposed metal edges shall be eased to the specified radius dimensions where indicated on Drawings.

- D. Welding
1. All welding work shall comply with AWS D1 and Aluminum Association standards for the specified type of metal.
 2. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
 3. All exposed welds shall be continuous; spot or tack welded joints shall not be visible in the finished work.

- E. Lamination
1. Provide laminates of adequate size, thickness, and construction to properly secure pre-finished aluminum to acrylic sign faces.
 2. Allow for thermal movements resulting from the following maximum change in ambient and surface temperatures by preventing buckling, delamination, opening of joints, overstressing of components, failure of connections, and other detrimental effects.

- F. Hardware and Fasteners
1. All hardware shall be of adequate size, thickness, and construction to properly secure.
 2. Except where indicated, exposed hardware shall not be visible on finished work; where specified, exposed hardware shall be painted to match adjacent surfaces.
 3. Submit fastener product data for material and finish approval.

- G. Dissimilar Materials

1. Metals, including metal hardware, shall be insulated from contact with dissimilar metals by means of a protective coating or gasketing, or by other means of separation as required to prevent galvanic corrosion.
- H. Structural Performance
1. Provide signs capable of withstanding the effects of gravity loads and other stresses, as indicated.
 2. Fabricator to secure approved submittal with structural design confirmation prior to fabrication and/or installation.
 3. Suspended sign shall be mounted in such manner as to not have any visible movement from windloads.

9. Warranty

- A. Fabricator shall warranty all products above and beyond, if necessary, manufacturer supported warranties for product performance, as follows:
1. Metal Shapes, Pre-finished Sheeting, Components and Extrusions:
 - a. Not less than ten (10) years.
 2. Paint Finishes:
 - a. Not less than ten (10) years.
 3. Protective Clear Coating:
 - a. Not less than ten (10) years.
 4. Mounting Hardware:
 - a. Not less than ten (10) years.
 5. Lamination:
 - a. Not less than ten (10) years.
 6. Acrylic Shapes & Sheets:
 - a. Not less than ten (10) years.
 7. Vinyl Graphics & Letters:
 - a. Not less than ten (10) years.
 8. Screen Printed Graphics and Letters:
 - a. Not less than ten (10) years.
 9. General:
 - a. All products not specifically indicated above will have warranty of no less than five (5) years.

- B. Fabricator shall guarantee all work under this Contract for a period of not less than five (5) years from the date of Substantial Completion, during which time the Contractor shall repair or replace work in this Contract which has failed as a result of defects in materials, workmanship, or installation. Submit written warranty signed by Contractor and Installer to Owner for documentation. Failures include, but are not limited to the following:
1. Deterioration of metal and finishes beyond normal weathering.
 2. Material failure.
 3. Deterioration of surface applied letters, graphics, or messages.
 4. Signs not remaining true and plum on their supports, whether mechanical or other.
 5. Fading of colors, printed graphics and letters or finishes when matched against a sample of the original color and material.

Part 2 - Products

1. Materials

- A. Aluminum
1. Aluminum Plate: Aluminum plate for all signs shall conform to ASTM-B209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, to the dimensions and thickness indicated on drawings.
 2. Aluminum shall be finished as indicated on Drawings. Finish shall be uniformly applied without waviness, 'oil-canning,' or other imperfections. Exposed aluminum shall exhibit no markings, scratches, or blemishes.
 3. Clear anodic finish: Manufacturer's standard Class 1 clear anodic coating, 0.018 mm or thicker, over a satin (directionally textured) mechanical finish, complying with AAMA 611 and AAMA 2605.
- B. Structural Steel:

PERFORMANCE SPECIFICATIONS

NOTES:

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			G.3

PERFORMANCE SPECIFICATIONS

- 1. Hot-Rolled Structural-Steel Shapes: ASTM A 36/A 36M or ASTM A 529/A 529M.
 - 2. Steel Tubing or Pipe: ASTM A 500, Grade B.
 - 3. Steel Members Fabricated from Plate or Bar Stock: ASTM A 529/A 529M or ASTM A 572/A 572M, 42,000-psi (290-MPa) minimum yield strength.
 - 4. Bolts for Steel Framing: ASTM A 307 or ASTM A 325 (ASTM A 325M) as necessary for design loads and connection details.
 - 5. For steel exposed to view on completion, provide materials selected for surface flatness, smoothness, and freedom from surface blemishes. Do not use materials whose surfaces exhibit pitting, seam marks, roller marks, rolled trade names, or roughness.
- C. Acrylic
- 1. Clear Acrylic: For sign component construction. Color: Clear. Material to be consistent, rigid and stable, conforming to ASTM D4802-10 for index of refraction; specific gravity; luminous transmittance; haze; water-absorption; shrinkage; thermal stability; deflection temperature under flexural load; tensile strength and elongation at break; impact strength; spectral transmittance of Type UVF and UVT sheet; abrasion resistance; coating adhesion; and chemical resistance.
 - 2. Clear Matte Acrylic: For sign component construction. Color: Clear Matte. Material to be consistent, rigid and stable, conforming to ASTM D4802-10 for index of refraction; specific gravity; luminous transmittance; haze; water-absorption; shrinkage; thermal stability; deflection temperature under flexural load; tensile strength and elongation at break; impact strength; spectral transmittance of Type UVF and UVT sheet; abrasion resistance; coating adhesion; and chemical resistance.
 - 3. Clear Non-Glare Acrylic: For sign component construction. Color: Clear Non-Glare. Material to be consistent, rigid and stable, conforming to ASTM D4802-10 for index of refraction; specific gravity; luminous transmittance; haze; water-absorption; shrinkage; thermal stability; deflection temperature under flexural load; tensile strength and elongation at break; impact strength; spectral transmittance of Type UVF and UVT sheet; abrasion resistance; coating adhesion; and chemical resistance.
- D. Polycarbonate
- 1. Polycarbonate shall be UV resistant with minimum 5 year written warranty against breakage, yellowing and loss of light transmission.
- E. Adhesives and Tapes
- 1. Foam Tape
 - a. Provide 3M double coated foam tape 4016, 4032 or equal.
 - b. Adhesive shall be A-20 Acrylic
 - c. Carrier shall be urethane foam
 - 2. Laminating Adhesive
 - a. Provide Flexcon V9590 D/PPFW clear or equal.
 - 3. VHB Foam Tapes
 - a. Provide 3M Scotch VHB 4930
 - b. Adhesive shall be Acrylic VHB
 - c. Carrier shall be closed cell foam
 - 4. Silicone Adhesive
 - a. TTs-00230C, ASTM C920 Clear, (Acetoxy Cure)
 - 5. Epoxy
 - a. 3M DP-110 or equal
- F. Pressure Sensitive Vinyl Legends
- 1. Use 3M High Intensity Prismatic Reflective Sheeting Series 3930, with 3M ElectroCut Film 1170 overlaminated.
 - a. Custom color background and characters printed with 3M inks directly.
 - b. Series 3930 sheeting incorporates a pressure sensitive adhesive and should be applied to the sign substrate at temperature of 65°F/18°C or higher by any of the following methods:

- 1. Mechanical squeeze roll applicator – refer to 3M Information Folder (IF) 1.4 for more details.
 - 2. Hand squeeze roll applicator – refer to 3M IF 1.6 for more details.
- c. Splices: Series 3930 sheeting must be butt spliced when more than one piece of sheeting is used on one piece of substrate. The sheeting pieces should not touch each other. This is to prevent buckling as the sheet expands in extreme temperature and humidity exposure.
- d. For traffic sign use, substrates found to be most reliable and durable are properly prepared aluminum sheets and extrusions. Plastic substrates are NOT acceptable.
- e. High intensity prismatic sheeting may be processed into traffic signs by any of the imaging methods describe below:
- 1. Screen Processing: Series 3930 sheeting may be screen processed into traffic signs before or after mounting on a sign substrate, using 3M Process Colors Series 880I or Series 880N. Refer to 3M IF 1.8 for more details.
 - 2. Thermal Transfer Printing: Series 3930 sheeting may be imaged with 3M Thermal Transfer Ribbon Series TTR2300 in conjunction with the Matan Spring3 or Matan Spot4 thermal transfer printers. Additionally, series 3930 sheeting may be imaged by the Durst RHO 161 TS printer, by Sherine Industries: (604) 513-1887. All applications utilizing the above printers must be covered with 3M ElectroCut Film 1170 Clear UV/Anti-Graffiti overlaminated.
 - 3. 3M ElectroCut Film Series 1170 may be used to provide transparent colored background copy for traffic control signs on high intensity prismatic sheeting. Both materials then must be covered with 3M ElectroCut Film 1170 Clear UV/Anti-Graffiti overlaminated. Refer to Product Bulletin 1170 for fabrication procedures.
 - 4. Vinyl Graphic Films: Scotchcal Vinyl Series 7720 and Series 7725 may be used to provide copy for traffic control signs on high intensity prismatic sheeting. Both materials then must be covered with 3M ElectroCut Film 1170 Clear UV/Anti-Graffiti overlaminated. Refer to Scotchcal product literature for more information.
- f. All of the above methods utilizing series 3930 reflective sheeting must be warranted for a period of eight (8) years and shall not excessively fade, discolor, crack, craze, peel, blister or lose reflectivity such that the signs become visually unsuitable for their intended purpose.
- 2. Use 3M Scotchcal brand graphic film. Material shall consist of a tough, flexible, and pigmented vinyl film and shall be processed with compatible screen printing inks and clear coatings as recommended by the film manufacturer. The film shall be precoated with pressure-sensitive adhesive. The adhesive shall be protected by a treated paper liner which shall be easily removable without soaking in water or other solvents. The sheeting shall be guaranteed against delamination for a period of 5 years.
 - 3. Use 3M Scotchlite brand reflective graphic film. 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

NOTES:

ENVIRONMENTS & EXPERIENCES



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		SHEET TITLE
		Performance Specifications
REVISIONS		SHEET NO.
		G.4

the film manufacturer. The film shall be precoated with pressure-sensitive adhesive. The adhesive shall be protected by a treated paper liner which shall be easily removable without soaking in water or other solvents. The sheeting shall be guaranteed against delamination for a period of 5 years.

2. FINISHES

A. Paints

1. Aluminum Components: Etched and filled graphics, surface screened copy, and surface screened arrows for all aluminum components shall be acrylic polyurethane, matte enamel finish, as manufactured by Matthews Paint or approved equal. Reference Design Intent drawings for specified colors.
2. Acrylic Components: Paint finish for all acrylic components shall be acrylic polyurethane, matte enamel finish, as manufactured by Matthews Paint or approved equal. Reference Design Intent drawings for specified colors.
3. Sign components shall be pre-drilled in proper locations prior to any pre-treatment process.
4. Pre-treatment: All surfaces shall be cleaned, primed, and pre-treated as required prior to finishing.
5. Masking and spraying. All masking shall be executed with pre-letter spaced vinyl legends, assembled on sign panel or wall prior to spraying. No hand-cut masks shall be used.
6. Clear Coat: Apply protective clear coat to all painted, printed, and vinyl surfaces. Contractor shall verify all product warranties.
7. Finished work shall be crisp, accurate, visibly free from flow lines, streaks, bleeding, blisters or other imperfections in the dry-film state, without over-spray, or rounded corners.
8. Screened Messages: Execute all silkscreen printing in such a manner that all edges and corners of finished letterforms are true and clean. Letterforms, color areas, graphics, or lines with rounded corners, edge buildup or bleeding, saw-toothing, etc. will not be accepted.

B. Metals

1. Aluminum Components: Finish for all aluminum components shall be #220 Inline Brush with eased corners and brushed edges
2. Sign components shall be pre-drilled in proper locations prior to any pre-treatment process.
3. Pretreatment: All surfaces shall be cleaned, primed, and pre-treated as required prior to finishing.
4. Clear Coat: Apply protective clear coat to all painted, printed, and vinyl surfaces. Contractor shall verify all product warranties.
5. Finished work shall be crisp, accurate, visibly free from flow lines, streaks, bleeding, blisters or other imperfections.

C. Acrylic

1. All background colors shall be spray painted with Matthews Acrylic Polyurethane. Finish with prime coating under a minimum color coat of 1.5 mil dry film thickness.
2. Translucent or transparent acrylic specified for the purpose of transmitting light should be free from internal flaws or variations in color.

3. General

A. Custom High Pressure Laminate Graphic Panels

1. Description: Custom High Pressure Laminate (CHPL) material composed of required layers of phenolic resin impregnated brown kraft filler paper to produce specified thicknesses, surfaced by a layers of melamine overlay, graphics imaged on saturation grade paper with UV resistant pigment based process color inks, and with an optically clear UV overlay that will resist no less that 99% of all sunlight and UV rays, as well as provides a graffiti resistant surface that allows for removal with standard cleaners.
2. Process: For purposes of this specification, layers of material described A.1 are to be assembled, and heat / pressure consolidated at approximately 1200 PSI at temperatures exceeding 275° Fahrenheit at manufac-

turer's prescribed time frames. All manufacturing processes of printing, pressing, machining, finishing and crating to be accomplished within a single stand alone manufacturing facility to ensure consistent quality control and providing standard product delivery times of three weeks.

3. Artwork: The graphic material and images are to be supplied by and under the supervision of the Designer or Owner. To include mechanicals, text, photographs, transparencies, film and other graphic source materials incorporated into digital graphic production artwork files in manufacturer's required file formats. All graphics must be assembled by computer designers familiar with and experienced in the process of digital printing and submitting production artwork files that meet the artwork requirements of the manufacturer.

4. Acceptable Manufacturer: iZone Imaging, 2526 Charter Oak Dr., Suite 100, Temple, TX 76502. Tel: 888.464.9663, Email: info@izoneimaging.com, Web: http://www.izoneimaging.com
- or Approved Equal Vendor

B. Dye-Sublimated Printed Graphic Panels

1. Process: Product substrates selected shall be able to withstand the 350 degree F (177 degree C) temperature of the powder coating oven. This includes and is not limited to aluminum, steel, glass, MDF, ceramic and high temperature plastics.
2. Characteristics: Coating shall be super durable polyurethane powder coated finish that is resistant to abrasion, humidity and corrosion. It shall be anti-graffiti, scratch resistant and non-combustible. The coating process shall be applicable for both interior and exterior applications. Coating shall withstand high traffic and extreme weather.
3. Capability: Embed process capability shall allow parts from the size of a button to 24 feet (7315 mm) in length. Includes dimensional objects, flat and embossed sheets, extruded profiles, and folded panels.
4. Warranty: Manufacturer's Warranty: Provide manufacturer's standard warranty for up to 10 years depending on location, substrate, environment and amount of direct sunlight.
5. Acceptable Manufacturer: Direct Embed Coating Systems; 6 Morris St., Paterson, NJ 07501. Tel: 954.825.0410, Email: info@directembedcoating.com, Web: http://www.directembedcoating.com.
- or Approved Equal Vendor

Part 3 - Execution

1. Examination

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of signage work.
- B. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces unless otherwise indicated.
- C. Verify that anchor inserts are correctly sized and located to accommodate signs.
- D. Verify that electrical service is correctly sized and located to accommodate signs.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

2. Installation

- A. General
 1. Install signs using mounting methods indicated and according to manufacturer's written instructions.
 2. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
 3. Install signs so they do not protrude or obstruct according to the accessibility standard.
 4. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
 5. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a

PERFORMANCE SPECIFICATIONS

NOTES:

ENVIRONMENTS & EXPERIENCES

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PROJECT NO.

SHEET TITLE

Performance Specifications

REVISIONS

SHEET NO.

G.5

PERFORMANCE SPECIFICATIONS

- heavy coat of bituminous paint.
- B. Room-Identification Signs and Other Accessible Signage: Install in locations on walls as indicated and according to accessibility standard.
- C. Mounting Methods:
1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
 - a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place sign in position and push until flush to surface, embedding studs in holes. Temporarily support sign in position until adhesive fully sets.
 - b. Thin or Hollow Surfaces: Place sign in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.
 2. Projecting Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
 - a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place spacers on studs, place sign in position, and push until spacers are pinched between sign and substrate, embedding the stud ends in holes. Temporarily support sign in position until adhesive fully sets.
 - b. Thin or Hollow Surfaces: Place spacers on studs, place sign in position with spacers pinched between sign and substrate, and install washers and nuts on stud ends projecting through opposite side of surface, and tighten.
 3. Through Fasteners: Drill holes in substrate using predrilled holes in sign as template. Countersink holes in sign if required. Place sign in position and flush to surface. Install through fasteners and tighten.
 4. Brackets: Remove loose debris from substrate surface and install backbar or bracket supports in position so that signage is correctly located and aligned.
 5. Adhesive: Clean bond-breaking materials from substrate surface and remove loose debris. Apply linear beads or spots of adhesive symmetrically to back of sign and of suitable quantity to support weight of sign after cure without slippage. Keep adhesive away from edges to prevent adhesive extrusion as sign is applied and to prevent visibility of cured adhesive at sign edges. Place sign in position, and push to engage adhesive. Temporarily support sign in position until adhesive fully sets.
 6. Double-Sided Tape: Clean bond-breaking materials from substrate surface and remove loose debris. Apply tape strips symmetrically to back of sign and of suitable quantity to support weight of sign without slippage. Keep strips away from edges to prevent visibility at sign edges. Place sign in position, and push to engage tape adhesive.
 7. Shim-Plate Mounting: Provide 1/8-inch- (3-mm-) thick, concealed aluminum shim plates with predrilled and countersunk holes, at locations indicated, and where other direct mounting methods are impractical. Attach plate with fasteners and anchors suitable for secure attachment to substrate. Attach signs to plate using counter-sunk expansion anchors method specified above.
- D. Field-Applied, Vinyl-Character Signs: Clean and dry substrate. Align sign characters in final position before removing release liner. Remove release liner in stages, and apply and firmly press characters into final position. Press from the middle outward to obtain good bond without blisters or fishmouths. Remove carrier film without disturbing applied vinyl film.
- E. Signs Mounted on Glass: Provide dove gray opaque sheet matching sign material and finish onto same side of glass to conceal back of sign.

3. ADJUSTING AND CLEANING

- A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.
- B. Remove temporary protective coverings and strippable films as signs are installed.
- C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

End of Section 10 14 00NAAMM: National Association of Architectural Metal Manufacturers, Glen Ellyn, IL, as published in "Metal Finishes Manual."

1. NFPA: National Fire Protection Association
2. UBC: United States Uniform Building Code.
3. UL: Underwriters Laboratories, Inc., Northbrook, IL

D. Definitions

1. Fabricator: Term used for agent responsible for fabrication, installation, management and coordination of executing work within the documents.
2. Surface: Any horizontal or vertical plane capable of receiving construction activities or finishes, such as walls, pavements, and sign faces.
3. Substrate: A substance or layer that underlies something, or on which some process occurs.
4. V.I.F.: Verify in Field
5. T.B.D.: To Be Determined
6. A.F.F.: Above Finished Floor
7. C.L.: Center Line
8. O.C.: On Center
9. O.A.D.: Overall Dimension

4. Scope of Work

A. Included Work

1. Provision of labor, materials, and equipment necessary to complete the work of this section, which shall include but not be limited to the following Sign Types:

GATE.1.....	D.1
GATE.2.....	D.2
GATE.3.....	D.3
DIST.1.....	D.4
DIST.1a.....	D.5
DIST.2.....	D.6
VDIR.1.....	D.7
VDIR.2.....	D.8
VDIR.3.....	D.9
VDIR.4.....	D.10
VDIR.5.....	D.11
VDIR.6.....	D.12
VDIR.7.....	D.13
VDIR.8.....	D.14
RES.1.....	D.15
PARK.1.....	D.16
PARK.2.....	D.17
PARK.3.....	D.18
PARK.4.....	D.19
PARK.5-7.....	D.20
PDIR.1.....	D.21
PDIR.2.2.....	D.22
KIOSK.1.....	D.23
KIOSK.2.....	D.24
COURT.1.....	D.25
COURT.2.....	D.26
BANNER.1-2.....	D.27

NOTES:

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		SHEET TITLE
		Performance Specifications
REVISIONS		SHEET NO.
		G.6

2. Attention is directed to Fabricators responsibilities for existing conditions survey, existing sign removal, existing interfering item removal, surface restoration, phased installation, submittals and shop drawings, engineering, and coordination with other trades as specified.

5. Coordination

A. Pre-Construction Meeting

1. A pre-construction meeting will be held at a time and place designated by the Owner and Administrator for the purpose of clarification of the project and for the purpose of identifying responsibilities of the Owner, Administrator and the Fabricators personnel as well as explanation of administrative procedures.

B. Coordination / Templates

1. Furnish templates for placement of sign-anchorage devices embedded in permanent construction by other installers.
2. Furnish templates for placement of electrical service embedded in permanent construction by other installers.
3. Furnish templates for field verification and placement of dimensional lettering prior to installation by Fabricator.

6. Action Submittals

A. General

1. Fabricator shall schedule shop drawings, message layouts, product data, and sample submittals for delivery as agreed in the Pre-Construction Meeting. 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.

B. Revisions and Resubmittals

1. Fabricator should allow for several rounds of revisions and resubmittals to all submittals including shop drawings, message layouts and material samples. Project schedule shall allow appropriate time for this process.

C. Shop Drawings

1. Shop Drawings must be provided by the Fabricator to the Owner and Designer for approval prior to fabrication.
2. Drawings should include all relevant plans, elevations, sections, and details of fabrication and installation.
3. Drawings shall indicate all materials, shapes, extrusion-types, dimensions, finishes, anchorage, fastening, and methods of connection.

SIGNAGE TECHNICAL SPECIFICATIONS

Section 10 14 00

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NOTES:

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SHEET NO.

CLIENT / PROJECT

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Wayfinding and Signage System

PROJECT NO.

SHEET TITLE

Performance Specifications

G.7