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Sign No. 1
Vehicular - Main Gateway
core colours

- clear anodized coating
  - application: sign structure

- PANTONE 185 C
  - application: pinstrip, arrows

- PANTONE 426 C
  - application: text, crest - monochromatic

- PANTONE 7541 C
  - application: background

- gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

1234567890

University of Victoria Logo, horizontal standard

full colour

reverse monochromatic - shown against background for clarity

project: Campus Wayfinding
number: -
issue date: April 1, 2019

sign: Sign No. 1 - Main Gateway
sheet name: typography, colours and pictograms
scale: as noted

sheet number: 02
Back panel (not shown here) to be one piece, digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel thickness to be 3.2mm

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate.
Aluminum panel size: 4130mm x 485mm x 6.4mm

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel size: 4130mm x 485mm x 6.4mm

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate.
Aluminum panel size: 4130mm x 485mm x 6.4mm

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel size: 580mm x 1170mm x 3.2mm

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel size: 4130mm x 650mm x 6.4mm

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate.
Aluminum panel size: 4130mm x 360mm x 6.4mm

Clear acrylic (pictograms):
Plaskollite OPTIX, Chemcast GP or equivalent

First surface prints:
Vinyl: 3M IJ180, MPI 2005 or equivalent
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

2nd surface prints:
CAV-50 reverse print - i/w/i (2nd surface)
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent (first surface)

1) Vinyl to be printed on, installed as per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer
3) Where applicable wrap vinyl and overlaminate over the edges of the alu. panel.
4) All panels to be mechanically fastened to substrate.
5) Manufacturer to confirm all dimensions prior to fabrication.
6) Manufacturer to ensure watertightness of panel connexions.
University of Victoria

19 mm thick push through acrylic pictogram

vinyl

19 mm thick push through acrylic pictograms (typ)

Type size: 1000pt
19mm thick push through acrylic

Front panel with push through pictograms
Scale 1:15

Project: Campus Wayfinding

Issue Date: April 1, 2019

Sign: Sign No. 1 - Main Gateway

Sign Design - Graphic Design Details - cont as noted

Sheet Name: 05
US LED PNT-3-12-W or equivalent
- space fixtures as per manufacturer’s recommendations to ensure even light distribution

19mm thick PVC
(LED support)
always maintain 5mm min gap between ply and sign framing

3.2mm thick alu. panel
mechanically fastened to sign framing

6.4mm alu. panel
mechanically fastened to sign framing

12.5mm thick protective non-glare acrylic panel
(optional - to be confirmed by UVic)

19mm thick PVC (LED support)
- space fixtures as per manufacturer’s recommendations to ensure even light distribution

51mm x 51mm x 4.8mm aluminum square tube
intermediate support as required to be fit between letters (typ)

electrical junction box

US LED PSA-12-60
(LED120A0012V50F)
or equivalent power supply
- one on each side of the sign

19mm thick acrylic push-thru letters
glued to aluminum panel

US LED PSA-12-60
or equivalent power supply
- one on each side of the sign

General Notes:
1) provide ventilation holes as required
2) US LED PSA-12-60 power supply to provide source of power to a max. of 50 MegaBright 12 LED Modules
3) Sign must have a CSA label as an assembly
4. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

long section scale 1:20

University of Victoria

cross section scale 1:20
General Notes:
1) provide ventilation holes as required
2) US LED PSA-12-60 power supply to provide power to a max. of 50 MegaBright 12 LED Modules
3) Sign must have a CSA label as an assembly
4. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
GENERAL NOTES

1. Provide sign ID stickers as per proposed location plan.
   Form and placement of stickers on signs is to be coordinated with University of Victoria
2. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

STRUCTURAL NOTES (cont)

1. Provide sign ID stickers as per proposed location plan.
   Form and placement of stickers on signs is to be coordinated with University of Victoria
2. The use of these drawings is limited to that indicated in the revisions column.

3. The information on these drawings shall not be used for any other project or works.

FIELD REVIEW BY STRUCTURAL ENGINEER
1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.
2. The work to be reviewed shall be generally complete.

CONCRETE AND REINFORCING STEEL
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23.1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate size to be 10mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

ELECTRICAL NOTES
1. Signs must be provided with CSA label
2. LED modules, power supplies, cable, wire and junction box must be integral with signs
3. Electrical installations to be done in accordance with the Canadian Electrical Code and as recommended by the LED lighting manufacturer.
4. Run 2#8 +GND conductors in 27mm PVC conduit from sign to existing campus exterior lighting pole standard. Intercept existing underground conduit, install an H20 rated flush junction box with bolt-on cover and splice into exterior lighting circuit.
5. The sign manufacturer shall provide an electrical shop drawings indicating input power requirements and a schematic wiring diagram for the sign.
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**Sign No. 2A**  
Vehicular - Parking Lot
clear anodized coating
application: sign structure

PANTONE 185 C
application: pinstrip, arrows

PANTONE 426 C
application: text, crest - monochromatic

PANTONE 7541 C
application: background, back panel (single sided sign)
grey oak motif - digital file is to be delivered by University of Victoria

core colours

samples of typeface family

Myriad Pro Semi Bold

ABCDEFghijklmnOPQRSTuvwXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full colour

reverse monochromatic - shown against bacgroud for clarity

project: Campus Wayfinding
number: -
issue date: April 1, 2019

sign: Sign No. 2A - Parking Lot

typography, colours and pictograms

as noted

sheet name:

scale: as noted

sheet number: 02
Parking Lot A
scale 1:15

Parking Lot A
scale 1:15

panel height
800

panel width
1000

LOT 5
Pay Parking
Monday - Saturday

LOT 5
Pay Parking
Monday - Saturday

University
of Victoria

50

44

1600

1224

1000

860

860

50

50

as noted

Campus Wayfinding

April 1, 2019

Sign No. 2A - Parking Lot

sheet name:
scale:

sheet number:

03

sign design - overview

as noted

number:

issue date:
Description
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate
Aluminum panel size (one piece): 1000 mm x 800 mm x 6.4 mm
See sheet 05 for details.

Vinyl: 3M IJ180, MPI 2005 or equivalent
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

1) One piece vinyl to be printed on, installed as per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer
3) Wrap vinyl and overlaminate over the edges of the aluminum panel.
4) If single sided sign then back panel to receive vinyl printed with PANTEONE 7541 C

Refer to Adobe Photoshop files for detailed sample layout
General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
General Note: Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID’s should correspond with ID’s shown on location plan.

2. Fasteners:
   - foundation (anchor bolts):
     - bolts: Fastenal part #47406 (1/2" s/s thread rod)
   - washers: Fastenal part #71021 (1/2" s/s washers)
   - nuts: Fastenal part #70714 (1/2" s/s nuts)
   - posts:
     - thru bolts: Fastenal part #174546 (1/2" x 5" button Socket Cap Screw)
     - thru bolt washers: Fastenal part #71021 (1/2" s/s washers)
   - thru bolt nuts: 70714 (1/2" s/s nuts)
   - panels:
     - security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)
   - washers: Fastenal part #71021 (1/2" s/s washers)
   - nuts: Fastenal part #70714 (1/2" s/s nuts)

CONCRETE AND REINFORCING STEEL

1. Fasteners:
   - referenced documents.
   - foundation (anchor bolts):
     - 2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
   - 3. Cover to reinforcing steel to be 50mm uno.
   - 4. Portland cement shall be type gu unless noted otherwise.
   - 5. Concrete shall have a unit weight of 23±1 kn/m³ (145±5 pcf) unless noted otherwise.
   - 6. Concrete in contact with concrete or grout shall be given a heavy coat of alkali-resistant bituminous paint or other equivalent coating before installation.
   - 7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.
   - 8. Anchor and connection bolts to be ASTM A193 Stainless Steel. Anchors shall be embedded 300mm into concrete, complete with a nut and washer each end.

STRUCTURAL NOTES (cont)

1. Provide self adhesive sign ID stickers. ID’s should correspond with ID’s shown on location plan.

2. Fasteners:
   - foundation (anchor bolts):
     - bolts: Fastenal part #47406 (1/2" s/s thread rod)
   - washers: Fastenal part #71021 (1/2" s/s washers)
   - nuts: Fastenal part #70714 (1/2" s/s nuts)
   - posts:
     - thru bolts: Fastenal part #174546 (1/2" x 5" button Socket Cap Screw)
     - thru bolt washers: Fastenal part #71021 (1/2" s/s washers)
   - thru bolt nuts: 70714 (1/2" s/s nuts)
   - panels:
     - security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)
   - washers: Fastenal part #71021 (1/2" s/s washers)
   - nuts: Fastenal part #70714 (1/2" s/s nuts)

DRAWINGS

1. These drawings show the completed project. The drawings do not show components that may be necessary for construction safety, which is the responsibility of the contractor.
2. The use of these drawings is limited to that indicated in the revisions column.
3. The information on these drawings shall not be used for any other project or works.

DESIGN

1. The structures shown have been designed in substantial accordance with the British Columbia Building Code 2006, which is based on the National Building Code of Canada 2005.
2. The following wind loads and factors were used:
   - q50=0.63kPa, Iw=1.0-ULS, 0.75-SLS.
3. Anchor and connection bolts to be “Pentagon” tamper resistant “Torx-Pin” screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.

FIELD REVIEW BY STRUCTURAL ENGINEER

1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.
2. Field review by Structural Engineer is not carried out for the Contractor’s benefit, nor does it make Structural Engineer guarantors of the Contractor’s work. It remains the Contractor’s responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.
3. The work to be reviewed shall be generally complete.

TAMPER RESISTANCE AND CONNECTIONS

1. Connection hardware to be stainless steel uno.
2. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping screws at 450mm maximum centre to centre spacing.
3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
4. Panel connection screws to be tamper resistant “Torx-Pin” screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
5. Visible connection bolts shall be “Pentagon” tamper resistant bolts, with “Pentagon” nuts as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
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Sign No. 2C
Vehicular - Parking Lot
clear anodized coating
application: sign structure

PANTONE 185 C
application: pinstrip, arrows

PANTONE 426 C
crest - monochromatic
application: text

PANTONE 424 C
application: background

PANTONE 7541 C
application: background, back panel (single sided sign)
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full color

arrow style and arrow size in relation to text height

reverse monochromatic - shown against background for clarity

project: Campus Wayfinding
issue date: April 1, 2019

sign: Sign No. 2C - Parking Lot typography, colours and pictograms as noted

sheet number: 02
opaque monochromatic reversed crest
crest height: 95 mm
pin strip to be 15 mm wide (typ)

200
555
50

type size: 190pt
leading: 195pt

Pay Parking Monday - Saturday
LOT 5

type size: 290pt

Cadboro Commons
Commonwealth Village
Health Services
Housing and Conference Services
Residences
University House 2

double line stacked
type size: 230pt
leading: 390pt

pin strip to be 15 mm wide (typ)

scale 1:15

Description
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate
Aluminum panel size (one piece): 1050 mm x 750 mm x 6.4 mm
See sheet 02 for details.

Vinyl: 3M IJ180, MPI 2005 or equivalent
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

1) One piece vinyl to be printed on, installed as per manufacturer's recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer
3) Wrap vinyl and overlaminate over the edges of the aluminum panel.
4) If single sided sign then back panel to receive vinyl printed with PANTEONE 7541 C

Refer to Adobe Photoshop files for detailed sample layout.
General Note: Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ)

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post

51mm x 51mm x 4.8mm aluminum square tube internal framing all connection to be welded (typ)

alu. rain cap mechanically fastened to stringer with tamper resistant screws, as required. rain cap to have clear anodized finish

leave 10mm min. gap between post and rain cap (typ)

25mm x 19mm x 4.8mm aluminum square tube to be extended max. 50mm from top

100mm x 700 x 6.4mm thick alu. sign panel supported by aluminum spacer and secured to internal framing w/ tamper resistant s/s screws

40mm x 102mm aluminum spacer w/ clear anodized finish, supported by aluminum spacer, welded to stringer

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ)

12 mm dia. tamper resistant s/s thru bolt (typ)

4-19mm s/s anchor bolts with washers and leveling nuts (typ) nuts to extend max. 10mm above bolt head

40mm dia. concrete foundation, 400mm dia. concrete foundation, 225mm x 102mm x 19mm aluminum square tube w/ clear anodized finish

slope of grade varies

4-19mm s/s anchor bolts

400mm dia. concrete foundation, reinforced with 5-15mm vert. 10mm ties @ 300mm, two ties at top

600 mm min. base to extend min. 50mm above ground

detail 1/06

General Note: Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

400mm dia. concrete foundation

reinforced with 5-15M vert. 10mm ties @ 300mm, two ties at top

400mm dia. concrete foundation

fill with 35 MPa non-shrink grout (typ)

400mm dia. concrete foundation

4-19mm s/s anchor bolts

General Note: Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

General Note: Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

400mm dia. concrete foundation

4-19mm s/s anchor bolts

General Note: Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
6.4mm thick aluminum plate (sign panel)

51mm x 51mm x 4.8mm aluminum square tube
(internal framing)

6.4mm thick aluminum plate (sign panel)

12mm dia. tamper resistant s/s thru bolt
and washer (typ)

38mm dia hole (bolt access)

51mm x 51mm x 4.8mm aluminum square tube
(internal framing)

panel to extend 5mm below internal framing

General Note:
Manufacturer to verify all dimensions
prior to sign fabrication. All discrepancies
should be reported to the Architect.

section detail 2 scale 1:2

102mm x 102mm x 19mm aluminum square tube
w/ clear anodized finish.

51mm x 51mm x 4.8mm aluminum square tube
(internal framing)

6.4mm thick aluminum plate (sign panel)
line of rain cap above

38mm dia. hole for bolt installation

s/s self tapping, tamper resistant screws (typ)
s/s washer

40mm x 10mm aluminum spacer
w/ clear anodized finish

12mm dia. tamper resistant s/s thru bolt (typ)

section detail 1 scale 1:2

102mm x 102mm x 19mm aluminum square tube
w/ clear anodized finish.

51mm x 51mm x 4.8mm aluminum square tube
(internal framing)

6.4mm thick aluminum plate (sign panel)
line of rain cap above

s/s self tapping, tamper resistant screws (typ)
s/s washer

40mm x 10mm aluminum spacer
w/ clear anodized finish

12mm dia. tamper resistant s/s thru bolt (typ)

section b (slip base) scale 1:5

19mm s/s anchor bolts with washers
and leveling nuts. Bolt to extend 10mm max. above nut.
Nuts to be locked with threadlocker -
clean any visible residue after application (typ)
(see also sheet 07)

225mm x 225mm x 19mm aluminum base plate
w/ clear anodized coating welded to post (typ)
GENERAL NOTES
1. Provide self-adhesive sign ID stickers. ID's should correspond with University of Victoria
2. Fasteners:
   foundation (anchor bolts):
     bolts: Fastenal part #47406 (1/2" s/s threaded rod)
     nuts: Fastenal part #70714 (1/2" s/s nuts)
     washers: Fastenal part #70121 (1/2" s/s washers)
   posts:
     thru bolt bolts: Fastenal part #174786 (1/2" x 5" button Socket Cap Screw)
     thru bolt washers: Fastenal part #70121 (1/2" s/s washers)
     thru bolt nuts: 70714 (1/2" s/s nuts)
    security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)

CONCRETE AND REINFORCING STEEL
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Portland cement shall be type gu unless noted otherwise.
4. Concrete shall have a unit weight of 23±1 kn/m³ (145±5 pcf) unless noted otherwise.
5. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate size to be 19mm.
6. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

STRUCTURAL ALUMINUM
1. Aluminum sections shall be new.
2. Aluminum alloys shall conform to the Aluminum Association publication Aluminum Standards.
3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
4. Aluminum in contact with concrete or grout shall be given a heavy coat of alkali-resistant bituminous paint or other equivalent coating before installation.
5. Welding operators and procedures shall be qualified according to CSA W47.2.
6. Submit shop drawings for review prior to start of steel fabrication.
7. Fabrication practices and tolerances shall be in accordance with CAN/CSA-S16, except bolt holed edge distance tolerance to be -0, +2mm.
8. Anchor and connection bolts to be ASTM A193 Stainless Steel. Anchors shall be embedded 300mm into concrete, complete with a nut and washer each end.
9. Anchor bolts to be secured with "Pentagon" security nuts.

FIELD REVIEW BY STRUCTURAL ENGINEER
1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.
2. Field review by Structural Engineer is not carried out for the Contractor’s benefit, nor does it make Structural Engineer guarantors of the Contractor’s work. It remains the Contractor’s responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.
3. The work to be reviewed shall be generally complete.
Sign No. 3A
Vehicular - Building Identification

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number: -
issue date: April 1, 2019

sign: Sign No. 3A - Building Identification
sheet name: title sheet and drawing list
scale: as noted

sheet number: 01
core colours

- clear anodized coating
  application: sign structure

- PANTONE 185 C
  application: pinstrip, arrows

- PANTONE 426 C
  application: text, crest - monochromatic

- PANTONE 7541 C
  application: background, back panel (single sided sign)

- gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCD EFGHIJKLMNOPQRSTUVWXYZ
abcdef ghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full colour

reverse monochromatic - shown against background for clarity

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Clearihue Building
Welcome Centre
Farquhar Auditorium

Administrative Services Building

Clearihue Building

Sign No. 3A - Building Identification
sign design - overview
as noted

project: Campus Wayfinding
classification: -
issue date: April 1, 2019

sign: Sheet Name:
scale: As noted

sheet number: 03
**Description**
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate.
Aluminum panel size (one piece): 1500 mm x 800 mm x 6.4 mm
See sheet 05 for details.

Vinyl: 3M IJ180, MPI 2005 or equivalent.
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

1) One piece vinyl to be printed on, installed as per manufacturer's recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer.
3) Wrap vinyl and overlaminate over the edges of the aluminum panel.
4) If single sided sign then back panel to receive vinyl printed with PANTEONE 7541 C.

Refer to Adobe Photoshop files for detailed sample layout.

---

**project:** Campus Wayfinding
**number:**
**issue date:** April 1, 2019

**sign:** Sign No. 3A - Building Identification
**sheet name:**
**sign design - graphic design details as noted**

**scale:** 1:15
**sheet number:** 04

---
102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ)

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post

51mm x 51mm x 4.8mm aluminum square tube internal framing all connection to be welded (typ)

leave 10mm min. gap between post and rain cap (typ)
alu. rain cap mechanically fastened to stringer with tamper resistant screws, as required.

rain cap to have clear anodized finish

12 mm dia. tamper resistant s/s thru bolt (typ)

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ)

102mm x 102mm x 19mm aluminum square tube w/ clear anodized finish (typ)

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post

4-19mm s/s anchor bolts with washers and leveling nuts (typ)

fill with 35 MPa non-shrink grout (typ)

400mm dia. concrete foundation reinforced with 5-15M vert. 10mm ties @ 300mm

two ties at top

400mm dia. concrete foundation

400mm dia. concrete foundation

4-19mm s/s anchor bolts

38 mm dia. hole for bolt installation

40mm x 10mm aluminum spacer w/ clear anodized finish

Spacer to terminate 50mm from top and bottom of framing (typ)

25mm x 25mm x 19mm base plate w/ clear anodized finish welded to post

4-19mm s/s anchor bolts

600 min.

400mm dia. concrete foundation

4-19mm s/s anchor bolts with washers and leveling nuts (typ)

fill with 35 MPa non-shrink grout (typ)

400mm dia. concrete foundation reinforced with 5-15M vert. 10mm ties @ 300mm

two ties at top

400mm dia. concrete foundation

4-19mm s/s anchor bolts

38 mm dia. hole for bolt installation

40mm x 10mm aluminum spacer w/ clear anodized finish

Spacer to terminate 50mm from top and bottom of framing (typ)

25mm x 25mm x 19mm base plate w/ clear anodized finish welded to post

4-19mm s/s anchor bolts

600 min.

400mm dia. concrete foundation

4-19mm s/s anchor bolts with washers and leveling nuts (typ)

fill with 35 MPa non-shrink grout (typ)

400mm dia. concrete foundation reinforced with 5-15M vert. 10mm ties @ 300mm

two ties at top

400mm dia. concrete foundation

4-19mm s/s anchor bolts

38 mm dia. hole for bolt installation

40mm x 10mm aluminum spacer w/ clear anodized finish

Spacer to terminate 50mm from top and bottom of framing (typ)

25mm x 25mm x 19mm base plate w/ clear anodized finish welded to post

4-19mm s/s anchor bolts

600 min.

400mm dia. concrete foundation

4-19mm s/s anchor bolts with washers and leveling nuts (typ)

fill with 35 MPa non-shrink grout (typ)

400mm dia. concrete foundation reinforced with 5-15M vert. 10mm ties @ 300mm

two ties at top

400mm dia. concrete foundation

4-19mm s/s anchor bolts

General Note: Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
6.4mm thick aluminum plate (sign panel)
51mm x 51mm x 4.8mm aluminum square tube (internal framing)
12 mm dia. tamper resistant s/s thru bolt and washer (typ)
38mm dia hole (bolt access)

section detail 1 scale 1:2

102mm x 102mm x 19mm aluminum square tube w/ clear anodized finish.
51mm x 51mm x 4.8mm aluminum square tube (internal framing)
6.4mm thick aluminum plate (sign panel)
line of rain cap above

section detail 2 scale 1:2

38 mm dia. hole for bolt installation
s/s self tapping, tamper resistant screws (typ)
s/s washer
40mm x 10mm aluminum spacer w/ clear anodized finish
12 mm dia. tamper resistant s/s thru bolt (typ)

section b (slip base) scale 1:5

19mm s/s anchor bolts with washers and leveling nuts. Bolt to extend 10mm max. above nut. Nuts to be locked with threadlocker - clean any visible residue after application (typ) (see also sheet 07)

225mm x 225mm x 19mm aluminum base plate w/ clear anodized coating welded to post (typ)

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

project: Campus Wayfinding
number: -
issue date: April 1, 2019

sign: Sign No. 3A - Building Identification
sheet name: sign construction - details
scale: as noted

sheet number: 06
1. Provide self adhesive sign ID stickers. ID’s should correspond with ID’s shown on location plan.

2. Fasteners:
   - foundation (anchor bolts):
     - bolts: Fastenal part #47406 (1/2” s/s threaded rod)
     - washers: Fastenal part #70714 (1/2” x 2½” washers)
     - nuts: Fastenal part #70714 (1/2” x s/s nuts)
   - posts:
     - thru bolts: Fastenal part #174786 (1/2” x 5” button Socket Cap Screw)
     - thru bolt washers: Fastenal part #70714 (1/2” x 2½” washers)
     - thru bolt nuts: 70714 (1/2” x s/s nuts)
   - panel security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4” button head security screw)
   - rain cap attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4” button head security screw)

3. Threadlock: Locktite 271 Red

4. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating) are protected against rusting.

5. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

CONCRETE AND REINFORCING STEEL

2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.

3. Cover to reinforcing steel to be 50mm uno.

4. Portland cement shall be type gu unless noted otherwise.

5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.

6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate size to be 19mm.

7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

8. Anchor bolts to be secured with “Pentagon” security nuts.

9. Unless noted otherwise, column base plates shall be 20 mm minimum thick. Anchor bolt holes shall be punched undersize and reamed to size.

10. Provide 6 mm cap plates for all tube members uno.

11. Aluminum shall be connected with fillet welds all-around uno. Weld size shall match the wall thickness of the thinnest part being connected uno. Welds to be ground smooth.

FIELD REVIEW BY STRUCTURAL ENGINEER
1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.

2. Structural Engineer guarantors of the Contractor’s work. It remains the Contractor’s responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.

3. The work to be reviewed shall be generally complete.

TAMPER RESISTANCE AND CONNECTIONS
1. Connection hardware to be stainless steel uno.

2. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping screws at 450mm maximum centre to centre spacing.

3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.

4. Panel connection screws to be tamper resistant “Torx-Pin” screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.

5. Visible connection bolts shall be “Pentagon” tamper resistant bolts, with “Pentagon” nuts as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer. Anchor bolts to be secured with “Pentagon” security nuts.

VERIFICATION BY STRUCTURAL ENGINEER
1. Structural Engineer provides verification only for the work shown on these structural drawings.

2. Verification shall be conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.

3. Structural Engineer guarantors of the Contractor’s work. It remains the Contractor’s responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.

4. The work to be verified shall be generally complete.
Sign No. 3B
Vehicular - Building Identification

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project: Campus Wayfinding
number: -
issue date: April 1, 2019

sign: Sign No. 3B - Building Identification
title sheet and drawing list

sheet number: 01

scale: as noted
clear anodized coating
application: sign structure

PANTONE 185 C
application: pinstrip, arrows

PANTONE 426 C
application: text, crest - monochromatic

PANTONE 7541 C
application: background, back panel (single sided sign)
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full colour

reverse monochromatic - shown against background for clarity

project: Campus Wayfinding
number: -
issue date: April 1, 2019

sign: Sign No. 3B - Building Identification
typography, colours and pictograms

scale: as noted

sheet number: 02
Description
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate.
Aluminum panel size (one piece): 1000 mm x 800 mm x 6.4 mm
See sheet 02 for details.

Vinyl: 3M IJ180, MPI 2005 or equivalent.
Overlaminate: 3M 8914, Avery DOL 66060 or equivalent.

1) One piece vinyl to be printed on, installed as per manufacturer's recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer.
3) Wrap vinyl and overlaminate over the edges of the aluminum panel.
4) If single sided sign then back panel to receive vinyl printed with PANTEONE 7541 C.

Refer to Adobe Photoshop files for detailed sample layout.
leave 10mm min. gap between post and rain cap (typ).
alu. rain cap mechanically fastened to stringer with tamper resistant screws, as required. rain cap to have clear anodized finish.

51mm x 51mm x 4.8mm aluminum square tube internal framing all connection to be welded (typ).

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ).

12 mm dia. tamper resistant s/s thru bolt (typ).

38 mm dia. hole for bolt installation
40mm x 10mm aluminum spacer w/ clear anodized finish. Spacer to terminate 50mm from top and bottom of framing (typ).

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts with washers and leveling nuts (typ) nuts to extend max 10mm above bolt fill with 35 MPa non-shrink grout (typ).

25mm x 25mm x 4.8mm aluminum square tube w/ clear anodized finish.

400min. x 10mm aluminum spacer w/ clear anodized finish.

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ).

12 mm dia. tamper resistant s/s thru bolt (typ).

38 mm dia. hole for bolt installation
40mm x 10mm aluminum spacer w/ clear anodized finish. Spacer to terminate 50mm from top and bottom of framing (typ).

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts

25mm x 25mm x 4.8mm aluminum square tube w/ clear anodized finish.

400min. x 10mm aluminum spacer w/ clear anodized finish.

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ).

12 mm dia. tamper resistant s/s thru bolt (typ).

38 mm dia. hole for bolt installation
40mm x 10mm aluminum spacer w/ clear anodized finish. Spacer to terminate 50mm from top and bottom of framing (typ).

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts

25mm x 25mm x 4.8mm aluminum square tube w/ clear anodized finish.

400min. x 10mm aluminum spacer w/ clear anodized finish.

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ).

12 mm dia. tamper resistant s/s thru bolt (typ).

38 mm dia. hole for bolt installation
40mm x 10mm aluminum spacer w/ clear anodized finish. Spacer to terminate 50mm from top and bottom of framing (typ).

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts

25mm x 25mm x 4.8mm aluminum square tube w/ clear anodized finish.

400min. x 10mm aluminum spacer w/ clear anodized finish.

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ).

12 mm dia. tamper resistant s/s thru bolt (typ).

38 mm dia. hole for bolt installation
40mm x 10mm aluminum spacer w/ clear anodized finish. Spacer to terminate 50mm from top and bottom of framing (typ).

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts

25mm x 25mm x 4.8mm aluminum square tube w/ clear anodized finish.

400min. x 10mm aluminum spacer w/ clear anodized finish.

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ).

12 mm dia. tamper resistant s/s thru bolt (typ).

38 mm dia. hole for bolt installation
40mm x 10mm aluminum spacer w/ clear anodized finish. Spacer to terminate 50mm from top and bottom of framing (typ).

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts

25mm x 25mm x 4.8mm aluminum square tube w/ clear anodized finish.

400min. x 10mm aluminum spacer w/ clear anodized finish.

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ).

12 mm dia. tamper resistant s/s thru bolt (typ).

38 mm dia. hole for bolt installation
40mm x 10mm aluminum spacer w/ clear anodized finish. Spacer to terminate 50mm from top and bottom of framing (typ).

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts

25mm x 25mm x 4.8mm aluminum square tube w/ clear anodized finish.

400min. x 10mm aluminum spacer w/ clear anodized finish.

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ).

12 mm dia. tamper resistant s/s thru bolt (typ).

38 mm dia. hole for bolt installation
40mm x 10mm aluminum spacer w/ clear anodized finish. Spacer to terminate 50mm from top and bottom of framing (typ).

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts

25mm x 25mm x 4.8mm aluminum square tube w/ clear anodized finish.

400min. x 10mm aluminum spacer w/ clear anodized finish.

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ).

12 mm dia. tamper resistant s/s thru bolt (typ).

38 mm dia. hole for bolt installation
40mm x 10mm aluminum spacer w/ clear anodized finish. Spacer to terminate 50mm from top and bottom of framing (typ).

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts

25mm x 25mm x 4.8mm aluminum square tube w/ clear anodized finish.

400min. x 10mm aluminum spacer w/ clear anodized finish.

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ).

12 mm dia. tamper resistant s/s thru bolt (typ).

38 mm dia. hole for bolt installation
40mm x 10mm aluminum spacer w/ clear anodized finish. Spacer to terminate 50mm from top and bottom of framing (typ).

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts
6.4mm thick aluminum plate (sign panel)

51mm x 51mm x 4.8mm  aluminum square tube
(internal framing)

102mm x 102mm x 19mm  aluminum square tube
w/ clear anodized finish.

6.4mm thick aluminum plate (sign panel)

line of rain cap above

38 mm dia. hole for bolt installation

s/s washer

12 mm dia. tamper resistant s/s thru bolt and washer (typ)

section detail 1 scale 1:2

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

section detail 2 scale 1:2

12 mm dia. tamper resistant s/s thru bolt and washer (typ)

38 mm dia hole (bolt access)

51mm x 51mm x 4.8mm aluminum square tube
(internal framing)

panel to extend 5mm below internal framing

section b (slip base) scale 1:5

18mm s/s anchor bolts with washers and leveling nuts. Bolt to extend 10mm max. above nut. Nuts to be locked with threadlocker - clean any visible residue after application (typ) (see also sheet 07)

102mm x 102mm x 6.4mm aluminum square tube w/ anodized coating (typ)

225mm x 225mm x 19mm aluminum base plate w/ clear anodized coating welded to post (typ)
GENERAL NOTES
1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan.
2. Fasteners:
   - foundation (anchor bolts):
     - bolts: Fastenal part #47406 (1/2” s/s threaded rod)
     - nuts: Fastenal part #70714 (1/2” s/s nuts)
   - posts:
     - thru bolts: Fastenal part #174786 (10-24 x 3/4” button Socket Cap Screw)
     - thru bolt washers: Fastenal part #1021 (1/2” s/s washers)
     - thru bolt nuts: 70714 (1/2” s/s nuts)
   - panels:
     - security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4” head security screw )
   - rain cap attachment: Fastenal part #BS0160024SSH100 (10-24 x 3/4” button head security screw)
3. Threadlocker: Locktite 271 Red
4. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating) are protected against rusting.
5. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

STRUCTURAL NOTES

DRAWINGS
1. These drawings show the completed project. The drawings do not show components that may be necessary for construction safety, which is the responsibility of the contractor.
2. The use of these drawings is limited to that indicated in the revisions column.
3. The information on these drawings shall not be used for any other project or works.

DESIGN
1. The structures shown have been designed in substantial accordance with the British Columbia Building Code 2006, which is based on the National Building Code of Canada 2005.
2. The following wind loads and factors were used: \( q_{50}=0.63\) kPa, \( I_{w}=1.0-ULS, 0.75-SLS \).

FIELD REVIEW BY STRUCTURAL ENGINEER
1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.
2. Field review by Structural Engineer is not carried out for the Contractor's benefit, nor does it make Structural Engineer guarantors of the Contractor's work. It remains the Contractor's responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.
3. Provide 24 hours advance notice of each required field review. Field reviews shall be scheduled to be carried out during normal business hours unless special arrangements are made with Structural Engineer.
4. The work to be reviewed shall be generally complete.

CONCRETE AND REINFORCING STEEL
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kN/m^3 (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

STRUCTURAL ALUMINUM
1. Aluminum sections shall be new.
2. Aluminum alloys shall conform to the Aluminum Association publication Aluminum Standards and Data ISO 6361-2 or ISO 6362-2.
3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
4. Aluminum in contact with concrete or grout shall be given a heavy coat of alkali-resistant bituminous paint or other equivalent coating before installation.
5. Welding operators and procedures shall be qualified according to CSA W47.2.
6. Submit shop drawings for review prior to start of steel fabrication.
7. Fabrication practices and tolerances shall be in accordance with CAN/CSA-S16, except bolt holed edge distance tolerance to be -0, +2mm.
8. Anchor and connection bolts to be ASTM A193 Stainless Steel. Anchors shall be embedded 300mm into concrete, complete with a nut and washer each end.
9. Unless noted otherwise, column base plates shall be 20 mm minimum thick. Anchor bolt holes shall be punched undersize and reamed to size.
10. Provide 6 mm cap plates for all tube members uno. Weld size shall match the wall thickness of the thinnest part being connected uno. Welds to be ground smooth.

TAMPER RESISTANCE AND CONNECTIONS
1. Connection hardware to be stainless steel uno.
2. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping screws at 450mm maximum centre to centre spacing.
3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
4. Panel connection screws to be tamper resistant "Torx-Pin" screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
5. Visible connection bolts shall be "Pentagon" tamper resistant bolts, with "Pentagon" nuts as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer. Anchor bolts to be secured with "Pentagon" security nuts.
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<td>general notes</td>
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**Sign No. 6**

**Vehicular - Directional**
samples of typeface family

Myriad Pro Semi Bold

ABCDEFghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

1234567890

core colours

- clear anodized coating
  application: sign structure
- PANTONE 185 C
  application: pinstrip, arrows
- PANTONE 426 C
  application: text, crest - monochromatic
- PANTONE 7541 C
  application: background, back panel (single sided sign)
- gary oak motif - digital file is to be delivered by University of Victoria

full colour

full colour

University of Victoria Logo, horizontal standard

arrow style and arrow size in relation to text height

reverse monochromatic - shown against background for clarity

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Directional version 1
scale 1:15

- Lot 2 Parking
- McKinnon Building
- Engineering Lab Wing
- Petch Building
- Medical Sciences Building

Directional version 2
scale 1:15

- Lot 2 Parking
- McKinnon Bldg
- Petch Building
- Cunningham Bldg
- Medical Sciences Building

Project: Campus Wayfinding
Number: FM 09-8567
Issue Date: April 1, 2019
Sign No. 6 - Directional sign design - overview as noted
opaque monochromatic reversed crest
crest height: 95 mm
pin strip to be 15 mm wide (typ)

don- strip to be
15 mm wide (typ)

top band - version 1

150

pin strip to be
15 mm wide (typ)

top band - version 2

1000

bottom band - version 1 and 2

85

Try 2 Parking
→ McKinnon Building
→ Engineering Lab Wing
→ Petch Building
→ Medical Sciences Building

Deliveries for:
→ Lot 2 Parking
→ McKinnon Bldg
→ Petch Building
→ Cunningham Bldg
→ Medical Sciences Building

Deliveries for:
→ Lot 2 Parking
→ McKinnon Building
→ Engineering Lab Wing
→ Petch Building
→ Medical Sciences Building

Description
Digitally printed vinyl protected with
anti-graffiti, optically clear overlaminate
Aluminum panel size (one piece): 1000 mm x 1400 mm x 6.4 mm
See sheet 02 for details.

Vinyl:
3M IJ180, MPI 2005 or equivalent
Overlaminate:
3M 8914, Avery DOL 6060 or equivalent.

1) One piece vinyl to be printed on, installed as per manufacturer's recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer.
3) Wrap vinyl and overlaminate over the edges of the aluminum panel.
4) If single sided sign then back panel to receive vinyl printed with PANTEONE 7541 C

Refer to Adobe Photoshop files for detailed sample layout
General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
6.4mm thick aluminum plate (sign panel)
51mm x 51mm x 4.8mm aluminum square tube (internal framing)
12 mm dia. tamper resistant s/s thru bolt and washer (typ)
38mm dia hole (bolt access)
51mm x 51mm x 4.8mm aluminum square tube (internal framing)
panel to extend 5mm below internal framing

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

section detail 1 scale 1:2

section detail 2 scale 1:2

section b (slip base) scale 1:5

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 6 - Directional sign construction - details as noted
sheet name: 06
sheet number: 06

University of Victoria
CONCRETE AND REINFORCING STEEL
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm unci.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

STRUCTURAL ALUMINUM
1. Aluminum sections shall be new.
2. Aluminum alloys shall conform to the Aluminum Association publication Aluminum Standards and Data ISO 6361-2 or ISO 6362-2.
3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
4. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

FIELD REVIEW BY STRUCTURAL ENGINEER
1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.
2. The acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.
3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
4. Field review by Structural Engineer is not carried out for the Contractor’s benefit, nor does it make Structural Engineer guarantors of the Contractor’s work. It remains the Contractor’s responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the failures or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.
5. The work to be reviewed shall be generally complete.
6. Panel connection screws to be tamper resistant “Torx-Pin” screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
7. Fabrication practices and tolerances shall be in accordance with CAN/CSA-S16, except bolt hole edge distance tolerance to be -0, +2mm.
8. Anchor and connection bolts to be ASTM A193 Stainless Steel. Anchors shall be embedded 300mm into concrete, complete with a nut and washer each end.
9. Unless noted otherwise, column base plates shall be 20 mm minimum thick. Anchor bolt holes shall be punched undersize and reamed to size.
10. Provide 6 mm cap plates for all tube members uno.
11. Aluminum shall be connected with fillet welds all around uno. Weld size shall match the wall thickness of the thinnest part being connected uno. Welds to be ground smooth.

TAMPER RESISTANCE AND CONNECTIONS
1. Connection hardware to be stainless steel uno.
2. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping screws at 450mm maximum centre to centre spacing.
3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
4. Panel connection screws to be tamper resistant “Torx-Pin” screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
5. Visible connection bolts shall be “Pentagon” tamper resistant bolts, with “Pentagon” nuts as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer. Anchor bolts to be secured with “Pentagon” security nuts.
Sign No. 6A
Vehicular - Directional

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project: Campus Wayfinding - Phase 1
number: -
issue date: April 1, 2019

sign: Sign No. 6A
title sheet and drawing list
as noted

sheet number: 01

University of Victoria
core colours

- clear anodized coating
  application: sign structure
- PANTONE 185 C
  application: pinstrip, arrows
- PANTONE 426 C
  application: text, crest - monochromatic
- PANTONE 7541 C
  application: background, back panel (single sided sign)
- gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full colour

reverse monochromatic - shown against background for clarity

| project: Campus Wayfinding - Phase 1 | sign: Sign No. 6A |
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| issue date: April 1, 2019 | scale: as noted |
| sheet number: 02 | sheet name: |
Campus Wayfinding - Phase 1

Sign No. 6A

- Sign design - overview
- as noted

University House 1

University Club

Version 1 scale 1:15

Version 2 scale 1:15

project: Campus Wayfinding - Phase 1
number: -
issue date: April 1, 2019

sign: Sign No. 6A
sheet name: sheet name: sheet number: 03
scale: as noted

University of Victoria
Description
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate
Aluminum panel size (one piece): 1150 mm x 850 mm x 6.4 mm
Reflective vinyl: SRV (white reflective)
Overlaminate: DOL 6060

1) One piece vinyl to be printed on, installed as per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer
3) Wrap vinyl and overlaminate over the edges of the aluminum panel.

Refer to Adobe Photoshop files for detailed sample layout
version 1 to be used in locations where traffic approaches at low speeds
version 2 to be used in locations where traffic approaches at high speeds

project: Campus Wayfinding - Phase 1
number: -
issue date: April 1, 2019

sign: Sign No. 6A
sheet name: Sign design - graphic design details
scale: as noted

University of Victoria
General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
102mm x 102mm x 6.4mm aluminum square tube
w/ anodized coating (typ)

19mm s/s anchor bolts with washers
and leveling nuts.
Bolt to extend 10mm max. above nut.
Nuts to be locked with threadlocker -
clean any visible residue after application (typ)
(see also sheet 07)

225mm x 225mm x 19mm aluminum base plate
w/ clear anodized finish welded to post (typ)

6.4mm thick aluminum plate (sign panel)

General Note:
Manufacturer to verify all dimensions
prior to sign fabrication. All discrepancies
should be reported to the Architect.

section detail 1 scale 1:2

section detail 2 scale 1:2

section b (slip base) scale 1:5
GENERAL NOTES

1. Provide self-adhesive sign ID stickers. ID’s should correspond with ID’s shown on location plan.

2. Fasteners:
   - foundation (anchor bolts):
     - bolts: Fastenal part #47406 (1/2” s/s threaded rod)
     - nuts: Fastenal part #70714 (1/2” s/s nuts)
   - posts:
     - thru bolts: Fastenal part #174786 (1/2” x 5” button Socket Cap Screw)
     - thru bolt nuts: 70714 (1/2” s/s nuts)
   - panels:
     - security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4” button head security screw)
     - rain cap attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4” button head security screw)

3. Threadlocker: Locktite 271 Red

4. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating) are protected against rusting.

5. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

STRUCTURAL NOTES

DRAWINGS

1. These drawings show the completed project. The drawings do not show components that may be necessary for construction safety, which is the responsibility of the contractor.
2. The use of these drawings is limited to that indicated in the revisions column.
3. The information on these drawings shall not be used for any other project or work.

DESIGN

1. The structures shown have been designed in substantial accordance with the British Columbia Building Code 2006, which is based on the National Building Code of Canada 2005.
2. The following wind loads and factors were used: $q_{50}=0.63 kPa$, $I_{w}=1.0-ULS$, 0.75-SLS.

FIELD REVIEW BY STRUCTURAL ENGINEER

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2. Field review by Structural Engineer is not carried out for the Contractor’s benefit, nor does it make Structural Engineer guarantors of the Contractor’s work. It remains the Contractor’s responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.

3. The work to be reviewed shall be generally complete.

STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL

2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

STRUCTURAL ALUMINUM

1. Aluminum sections shall be new.
2. Aluminum alloys shall conform to the Aluminum Association publication Aluminum Standards and Data ISO 6361-2 or ISO 6362-2.
3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
4. Aluminum in contact with concrete or grout shall be given a heavy coat of alkali-resistant bituminous paint or other equivalent coating before installation.
5. Welding operators and procedures shall be qualified according to CSA W47.2.
6. Submit shop drawings for review prior to start of steel fabrication.
7. Fabrication practices and tolerances shall be in accordance with CAN/CSA-S16, except bolt holed edge distance tolerance to be -0, +2mm.
8. Anchor and connection bolts to be ASTM A193 Stainless Steel. Anchors shall be embedded 300mm into concrete, complete with a nut and washer each end.
9. Unless noted otherwise, column base plates shall be 20 mm minimum thick. Anchor bolt holes shall be punched undersize and reamed to size.
10. Provide 6 mm cap plates for all tube members uno. Weld size shall match the wall thickness of the thinnest part being connected uno. Welds to be ground smooth.

TAMPER RESISTANCE AND CONNECTIONS

1. Connection hardware to be stainless steel uno.
2. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping screws at 450mm maximum centre to centre spacing.
3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
4. Panel connection screws to be tamper resistant “Torx-Pin” screws as supplied by O.E.M Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
5. Visible connection bolts shall be “Pentagon” tamper resistant bolts, with “Pentagon” nuts as supplied by O.E.M Hardware of Surrey BC, or equivalent as approved by Structural Engineer. Anchor bolts to be secured with “Pentagon” security nuts.
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Sign No. 8
Pedestrian - Map Directory Kiosk
samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHJKLMNQPQRSTUVWXY
abcdefghijklmnopqrstuvwxyz
1234567890

full colour

University of Victoria Logo, horizontal standard

reverse monochromatic - shown against background for clarity

Myriad Pro Semi Bold

ABCDEFGHJKLMNQPQRSTUVWXY
abcdefghijklmnopqrstuvwxyz
1234567890

full colour

University of Victoria Logo, horizontal standard

reverse monochromatic - shown against background for clarity

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ABCDEFGHJKLMNQPQRSTUVWXY
abcdefghijklmnopqrstuvwxyz
1234567890

full colour

University of Victoria Logo, horizontal standard

reverse monochromatic - shown against background for clarity
General Note:
Where applicable, provide 6.4mm thick aluminum spacer under aluminum sign panels to make up for acrylic panel thickness. See also detail 1/8-11.
General Note:
Where applicable, provide 6.4mm thick aluminum spacer under aluminum sign panels to make up for acrylic panel thickness see also detail 1/8-11

sign: Sign No. 8 Pedestrian Map Directory Kiosk
sign design - overview cont.
as noted
top panel:
3.2mm thick aluminum with digitally printed vinyl (Gary Oak motif) protected with anti-graffiti, optically clear overlaminate.

back panel:
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate.
Aluminum panel size: 710 mm x 1848 mm x 3.2 mm

bottom panel:
3.2 mm thick aluminum with clear anodized coating

Digital printed vinyl protected with anti-graffiti, optically clear overlaminate.
Aluminum panel size: 1150 mm x 500 mm x 3.2 mm

Non-glare clear acrylic:
Plaskolite OPTIX Abrasion Resistant Non-Glare or equivalent.
Clear acrylic (pictograms):
Plaskolite OPTIX, Chemcast GP or equivalent.

First surface prints:
Vinyl: 3M IJ180, MPI 2005 or equivalent
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

2nd surface prints:
CAV-50 reverse print - i/w/i (2nd surface)
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent (first surface)

1) Vinyl to be printed on, installed as per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer.
3) Where applicable wrap vinyl and overlaminate over the edges of the aluminum panel.
4) All panels to be mechanically fastened to substrate.
5) Directory map shown for reference only, directory map with all associated texts and pictograms to be provided in digital format by University of Victoria.
6) Manufacturer to confirm all dimensions prior to fabrication.

General note:
Manufacturer to confirm all dimensions prior to fabrication.

Project: Campus Wayfinding
Number: FM 09-8567
Issue date: April 1, 2019
Sign: Sign No. 8 Pedestrian Map Directory Kiosk
Sheet name: sign design - graphic design details
Scale: as noted
Sheet number: 05

University of Victoria
opaque monochromatic reversed
crest height: 95 mm

pin strip to be 15 mm wide (typ)

19mm thick clear acrylic glued to inside face of aluminum panel.
Red translucent vinyl applied to front of push through pictogram
and white diffuser vinyl applied on the back face.

directory map shown for
reference only.
current directory map to be provided
in digital format
by University of Victoria

general note:
manufacturer to confirm all dimensions
prior to fabrication.

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 8 Pedestrian Map Directory Kiosk
sign design - graphic design details cont.
as noted

sheet number: 06
203mm x 203mm x 6.4mm HSS with powder coat finish (to match clear anodize coating)

350mm x 350mm x 25mm base plate welded to post w/ powder coat finish (to match clear anodize coating)

Round-off plate corners - radius 10 mm (typ.)

4-19mm s/s anchor bolts with washers and leveling nuts to extend max 15mm above bolt. Nuts to be locked with Locktite 271 Red - clean any visible residue after application (typ)

51mm x 51mm x 4.8mm aluminum square tube sign framing (typ)

250
650
35
25
1200
495
145
740
51mm x 102mm x 3.2mm aluminum rectangular tube painted with 2 part urethane paint, to match coating on post welded to roof members

5.00°

27 mm dia PVC conduit min depth 450 mm 600mm in traffic areas

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

1) provide ventilation holes as required
2) US LED PSA-12-60 power supply to provide source of power to a maximum of 50 Megalight 12 LED Modules
3) Sign must have a CSA label as an assembly

US LED PSA-12-60 (LED120A0012V50F) or equivalent power supply - one on each side of the sign

fill with 35 MPa non-shrink grout (typ)

350mm x 350mm x 25mm base plate welded to post w/ powder coat finish (to match clear anodize coating) round-off plate corners - radius 10 mm (typ.)

4-19mm s/s anchor bolts with washers and leveling nuts nuts to extend max 15mm above bolt. Nuts to be locked with Locitite 271 Red - clean any visible residue after application (typ)

expansion joint

150mm thick concrete pad expansion joint 100mm thick concrete pad

2 ties at top

10M @ 250 ties

300
600
300
600 mm x 600 mm pilaster reinforced w/ 6-C15M vert.

4-15M each way top and bottom

27 mm dia PVC conduit min depth 450 mm 600mm in traffic areas

Sign No. 8 Pedestrian Map Directory Kiosk

Project: Campus Wayfinding

FM 09-8567

April 1, 2019

General Note: Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

1) provide ventilation holes as required
2) US LED PSA-12-60 power supply to provide source of power to a maximum of 50 Megalight 12 LED Modules
3) Sign must have a CSA label as an assembly

US LED PSA-12-60 (LED120A0012V50F) or equivalent power supply - one on each side of the sign

fill with 35 MPa non-shrink grout (typ)

350mm x 350mm x 25mm base plate welded to post w/ powder coat finish (to match clear anodize coating) round-off plate corners - radius 10 mm (typ.)

4-19mm s/s anchor bolts with washers and leveling nuts nuts to extend max 15mm above bolt. Nuts to be locked with Locitite 271 Red - clean any visible residue after application (typ)

expansion joint

150mm thick concrete pad expansion joint 100mm thick concrete pad

2 ties at top

10M @ 250 ties

300
600
300
600 mm x 600 mm pilaster reinforced w/ 6-C15M vert.
1200mm x 1200mm x 250mm concrete footing

expansion joint

150mm thick min. concrete pad

600mm x 600mm x 25mm concrete post

4-19mm s/s anchor bolts with washers and leveling nuts (typ.)

350mm x 350mm x 25mm base plate welded to post w/ powder coat finish

round-off plate corners - radius 10 mm (typ.)

25mm chamfered edge

outline of sign cabinet

R245

1000

450

50

1155

15.00°

section a scale 1:15

US LED PSA-12-60 (LED120A012V50F) or equivalent power supply one for each side of sign

2-19mm dia. s/s thru bolts (typ.) see structural notes

203mm x 203mm x 6.4mm HSS with powder coat finish (to match clear anodize coating)

51mm x 51mm x 4.8mm aluminum angle as required (PVC support)

5mm x 5mm x 25mm x 25mm base plate welded to post w/ powder coat finish

round-off plate corners - radius 10 mm (typ.)

section b scale 1:15

US LED PNT-3-12-W or equivalent - space fixtures as per manufacturer’s recommendations to ensure even light distribution

19mm thick PVC panel (LED support) maintain 5mm min gap between edge of panel and sign framing where applicable

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
**General Note:**
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
3.2 mm thick aluminum sign panel
50mm x 50mm x 6.4 mm thick aluminum angle (panel support) at corners welded to sign framing
3.2 mm thick aluminum profile with top and bottom caps and print-on vinyl/overlaminate finish to be welded to sign framing,
s/s self tapping, tamper resistant screws (typ)
6.4 mm thick custom made aluminum profile (panel support) as required - welded to sign framing
always maintain 20mm shadow depth on perimeter of the acrylic panel
3.2mm thick aluminum sheet welded to roof members
19 mm dia. tamper resistant s/s thru bolt (typ) see structural notes
6.4 mm thick aluminum bracket
51mm x 102mm x 3.2mm aluminum rectangular tube with clear anodized coating or paint finish (to be determined by UVic)
all connection to be welded
6.4 mm thick acrylic panel
always maintain 20mm shadow depth on perimeter of the acrylic panel
51mm x 51mm x 4.8mm aluminum square tube below
6.4 mm thick acrylic clear panel, vinyl with digital print and diffusion layer
c/w 4-19 mm dia tamper resistant s/s thru bolts
always maintain 20mm shadow depth on perimeter of the acrylic panel

3.2mm thick acrylic panel
50mm x 50mm x 6.4 mm thick aluminum angle (panel support) at corners welded to sign framing
3.2 mm thick aluminum profile with top and bottom caps and print-on vinyl/overlaminate finish to be welded to sign framing,
s/s self tapping, tamper resistant screws (typ)
6.4 mm thick custom made aluminum profile (panel support) as required - welded to sign framing
always maintain 20mm shadow depth on perimeter of the acrylic panel
3.2mm thick aluminum sheet welded to roof members
19 mm dia. tamper resistant s/s thru bolt (typ) see structural notes
6.4 mm thick aluminum bracket
51mm x 102mm x 3.2mm aluminum rectangular tube with clear anodized coating or paint finish (to be determined by UVic)
all connection to be welded
6.4 mm thick acrylic panel
always maintain 20mm shadow depth on perimeter of the acrylic panel
51mm x 51mm x 4.8mm aluminum square tube below
6.4 mm thick acrylic clear panel, vinyl with digital print and diffusion layer
c/w 4-19 mm dia tamper resistant s/s thru bolts
always maintain 20mm shadow depth on perimeter of the acrylic panel

General Note: Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
General Notes:
1) Top of 100mm thick concrete slab to be flush with existing sidewalk. Concrete pad is to be modified accordingly - always maintain 50mm height difference.
2) Drawing should be read in conjunction with arch. specifications
3) Contractor to verify all dimensions on site prior to sign installation.

General Notes:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
GENERAL NOTES

1. Provide self-adhesive sign ID stickers. ID’s should correspond with ID’s shown on location plan.
2. Fasteners:
   - foundation (anchor bolts):
     - bolts: Fastenal part #47349 (3/4" s/s threaded)
     - washers: Fastenal part #71027 (3/4" s/s washers)
     - nuts: Fastenal part #70717 (3/4" s/s nuts)
   - panels:
     - security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)
3. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating) are protected against rusting.
4. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

STRUCTURAL NOTES

1. Aluminum sections shall be new.
2. Aluminum alloys shall conform to the Aluminum Association publication Aluminum Standards and Data ISO 6361-2 or ISO 6362-2.
3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
4. Aluminum in contact with concrete or grout shall be given a heavy coat of alkali-resistant bituminous paint or other equivalent coating before installation.
5. Welding operators and procedures shall be qualified according to CSA W47.2.
6. Submit shop drawings for review prior to start of steel fabrication.
7. Fabrication practices and tolerances shall be in accordance with CAN/CSA-S16, except bolt hole edge distance tolerance to be -0, +2mm.
8. Anchor and connection bolts to be ASTM A193 Stainless Steel. Anchors shall be embedded 300mm into concrete, complete with a nut and washer each end.
9. Unless noted otherwise, column base plates shall be 20 mm minimum thick. Anchor bolt holes shall be punched undersize and reamed to size.
10. Provide 6 mm cap plates for all tube members uno.
11. Aluminum shall be connected with fillet welds all-around uno. Weld size shall match the wall thickness of the thinnest part being connected uno. Welds to be ground smooth.

ELECTRICAL NOTES

1. Signs must be provided with CSA label.
2. LED modules, power supplies, cable, wire and junction box must be integral with signs.
3. All electrical installations to be done in accordance with the Canadian Electrical Code and as recommended by the LED lighting manufacturer.
4. Run 28G +GND conductors in 27mm PVC conduit from sign to existing campus exterior lighting pole standard. Intercept existing underground conduit, install an H20 rated flush junction box with bolt-on cover and splice into exterior lighting circuit.
5. The sign manufacturer shall provide an electrical shop drawings indicating input power requirements and a schematic wiring diagram for the sign.

FIELD REVIEW BY STRUCTURAL ENGINEER

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2. Field review by Structural Engineer is not carried out for the Contractor’s benefit, nor does it make Structural Engineer guarantors of the Contractor’s work. It remains the Contractor’s responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.
3. The work to be reviewed shall be generally complete.

CONCRETE AND REINFORCING STEEL

2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kN/m^3 (145±5 pcf) unless noted otherwise.
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**Sign No. 9**

Pedestrian - Major Directional
core colours

- clear anodized coating
  application: sign structure
- PANTONE 185 C
  application: pinstrip, arrows
- PANTONE 426 C
  application: text, crest - monochromatic
- PANTONE 7541 C
  application: background
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full colour

reverse monochromatic - shown against background for clarity

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019
sign: Sign No. 9 - Major Directional typography, colours and pictograms
sheet name: as noted
scale: as noted
sheet number: 02
General Note:
Where applicable, provide 6.4mm thick aluminum spacer under aluminum sign panels to make up for acrylic panel thickness.
See also detail 3/9-07.
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel size:
283 mm x 744 mm x 3.2 mm

pin strip to be 15 mm wide (typ)

60 (min) 60 (min) 60 (min)

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel size:
270 mm x 506 mm x 3.2 mm

6.4 mm thick non-glare clear acrylic panel

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel size:
270 mm x 506 mm x 3.2 mm

Non-glare clear acrylic: Plaskolite OPTIX Abrasion Resistant Non-Glare or equivalent.
Clear acrylic (pictograms): Plaskolite OPTIX, Chemcast GP or equivalent

First surface prints:
Vinyl: 3M IJ180, MPI 2005 or equivalent
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

2nd surface prints:
CAV-50 reverse print - i/w/i (2nd surface)
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent (first surface)

1) Vinyl to be printed on, installed as per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer
3) Where applicable wrap vinyl and overlaminate over the edges of the alu. panel.
4) All panels to be mechanically fastened to substrate.
5) Directory map shown for reference only. directory map with all associated texts and pictograms to be provided in digital format by University of Victoria
6) Manufacturer to confirm all dimensions prior to fabrication.
7) Manufacturer to ensure watertightness of panel connections.

Refer to Adobe Photoshop files for detailed sample layout

scale 1:15
1) provide ventilation holes as required
2) US LED PSA-12-60 power supply to provide source of power to a max. of 50 MegaBright 12 LED Modules
3) Sign must have a CSA label as an assembly

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
51mm x 51mm x 4.8mm aluminum square tube beyond (sign framing)

6.4mm thick acrylic clear panel, vinyl with digital print and diffusion layer

6 mm dia. s/s thru bolt (typ)

US LED PN-3-12-W or equivalent

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
6.4mm thick aluminum sign panel

10mm thick clear acrylic glued to inside face of aluminum panel. Red translucent vinyl applied to front of push through pictogram and white diffuser vinyl applied on the back face.

panel elevation scale 1:5

interior side

exterior side
GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID’s should correspond with ID’s shown on location plan.
2. Fasteners:
   - Foundation (anchor bolts):
     - bolts: Fastenal part #47349 (3/4” s/s threaded)
     - washers: Fastenal part #71027 (3/4” s/s washers)
     - nuts: Fastenal part #70717 (3/4” s/s nuts)
   - Security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4” button head security screw)
3. Whenever anchor bolts are used, contractor to ensure cut surfaces (terminated coating) are protected against rusting.
4. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the architect.

STRUCTURAL NOTES

1. Signage must be provided with CSA label.
2. LED modules, power supplies, cable, wire and junction box must be integral with signs.
3. All electrical installations to be done in accordance with the Canadian Electrical Code and as recommended by the LED lighting manufacturer.
4. Run 2#8 + GND conductors in 27mm PVC conduit from sign to existing campus exterior lighting pole standard. Intercept existing underground conduit, install an H20 rated flush junction box with bolt-on cover and splice into exterior lighting circuit.
5. The sign manufacturer shall provide an electrical shop drawings indicating input power requirements and a schematic wiring diagram for the sign.

CONCRETE AND REINFORCING STEEL

1. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-6%. Maximum aggregate size to be 19mm.
2. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

STRUCTURAL ALUMINUM

1. Aluminum sections shall be new.
3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
4. Aluminum in contact with concrete or grout shall be given a heavy coat of alkali-resistant bituminous paint or other equivalent coating before installation.
5. Welding operators and procedures shall be qualified according to CSA W47.2.
6. Submit shop drawings for review prior to start of steel fabrication.
7. Fabrication practices and tolerances shall be in accordance with CAN/CSA-S16, except bolt hole edge distance tolerance to be 0, 0.2mm.
8. Anchor and connection bolts to be ASTM A193 Stainless Steel. Anchors shall be embedded 300mm into concrete, complete with a nut and washer each end.
9. Unless noted otherwise, column base plates shall be 20 mm minimum thickness. Anchor bolt holes shall be punched undersize and reamed to size.
10. Provide 6 mm cap plates for all tube members uno.
11. Aluminum shall be connected with fillet welds all-around uno. Weld size shall match the wall thickness of the thinnest part being connected uno. Welds to be ground smooth.

TAMPER RESISTANCE AND CONNECTIONS

1. Connection hardware to be stainless steel uno.
2. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping screws at 45mm maximum centre to centre spacing.
3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
4. Panel connection screws to be tamper resistant “Torx-Pin” screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
5. Visible connection bolts shall be “Pentagon” tamper resistant bolts, with “Pentagon” nuts as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.

FIELD REVIEW BY STRUCTURAL ENGINEER

1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.
2. Field review by Structural Engineer is not carried out for the Contractor’s benefit, nor does it make Structural Engineer guarantors of the Contractor’s work. It remains the Contractor’s responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.
3. The work to be reviewed shall be generally complete.

ELECTRICAL NOTES

1. Signs must be provided with CSA label.
2. LED modules, power supplies, cable, wire and junction box must be integral with signs.
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Sign No. 10
Pedestrian - Intermediate Directional
core colours

- clear anodized coating
- PANTONE 185 C
- PANTONE 426 C
- PANTONE 7541 C
- gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz

University of Victoria Logo, horizontal standard

full colour

reverse monochromatic - shown against background for clarity

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 10 - Intermediate Directional typography, colours and pictograms as noted

sheet name: University of Victoria

sheet number: 02
Description
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate.

Front/Back aluminum panel size (one piece): 960 mm x 1250 mm x 6.4 mm
Top Aluminum panel size (one piece): 194 mm x 960 mm x 3.2 mm
Side aluminum panel size (one piece): 194 mm x 1243.6 mm x 3.2 mm
See sheet 05 for details.

Vinyl: 3M IJ180, MPI 2005 or equivalent
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

1) One piece vinyl to be printed on, installed as per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer
3) Wrap vinyl and overlaminate over the edges of the aluminum panels.

Refer to Adobe Photoshop files for detailed sample layout.
General Note: Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

- **6.4mm alu. plate (sign panel)** mechanically fastened to internal framing
- **51mm x 51mm x 4.8mm aluminum square tube** interior framing. All connections to be welded
- **2 x 51mm x 102mm x 4.8mm aluminum rectangular tubes** (interior framing) - all connections to be welded
- **640mm x 254mm x 12mm aluminum plate**
- **2 x 51mm x 102mm x 4.8mm aluminum rectangular tubes** (interior framing) - all connections to be welded
- **fill with 35 MPa non-shrink grout (typ)**
- **insect screen (typ)**
- **outline of foundation wall**
- **204mm x 853mm x 12mm aluminum plate**
- **204mm x 853mm x 12mm aluminum plate** on front and back
- **3.2mm aluminum plate on sides and top plates** mechanically fastened to internal framing with s/s tamper resistant screws as required.
51mm x 51mm x 4.8mm aluminum square tube beyond (sign framing)

s/s self tapping, tamper resistant screws - as required (typ)

6.4mm thick aluminum (sign panel) typical on front and back

section detal 1 scale 1:2

TOP

3.2 mm thick aluminum mechanically fastened to structure

51mm x 102mm x 4.8mm aluminum rectangular tubes

6.4mm thick aluminum (sign panel) typical on front and back

plan detal 2 scale 1:2

BACK

3.2 mm thick aluminum plate on sides and top (typ)

ensure watertight connection.

51mm x 102mm x 4.8mm aluminum rectangular tubes

51mm x 51mm x 4.8mm aluminum square tube beyond (sign framing)

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
GENERAL NOTES

1. Provide self-adhesive sign ID stickers. ID's should correspond with ID's shown on location plan.
   Form and placement of stickers on signs is to be coordinated with University of Victoria.

2. Fasteners:
   a. foundation (anchor bolts):
      - bolts: Fastenal part #47406 (1/2" s/s threaded rod)
      - washers: Fastenal part #71021 (1/2" s/s washers)
      - nuts: Fastenal part #70714 (1/2" s/s nuts)
   b. security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4” button head security screw)
   c. Threadlocker: Locktite 271 Red

3. The field review by Structural Engineer is for the work shown on these structural drawings and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.

4. Field review by Structural Engineer is carried out for the Contractor's benefit, nor does it make Structural Engineer guarantors of the Contractor's work. It remains the Contractor's responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for any acts or omissions of the Contractor, Sub-Contractor, or any other person performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.

5. The work to be reviewed shall be generally complete.

DRAWINGS

1. These drawings show the completed project. The drawings do not show components that may be necessary for construction safety, which is the responsibility of the contractor.
2. The use of these drawings is limited to that indicated in the revisions column.
3. The information on these drawings shall not be used for any other project or work.

DESIGN

1. The structures shown have been designed in substantial accordance with the British Columbia Building Code 2006, which is based on the National Building Code of Canada 2005.
2. The following wind loads and factors were used: q50=0.63kPa, hw=1.0-ULS, 0.75-SLS.

FIELD REVIEW BY STRUCTURAL ENGINEER

1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.

2. Field review by Structural Engineer is not carried out for the Contractor's benefit, nor does it make Structural Engineer guarantors of the Contractor's work. It remains the Contractor's responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for any acts or omissions of the Contractor, Sub-Contractor, or any other person performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.

3. The work to be reviewed shall be generally complete.

CONCRETE AND REINFORCING STEEL

2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.

FIELD REVIEW BY STRUCTURAL ENGINEER

1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.

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3. The work to be reviewed shall be generally complete.
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Sign No. 11

Pedestrian - Street Blade

Project: Campus Wayfinding

Sheet Number: 01

Title Sheet and Drawing List

Typography, Colours and Pictograms

Sign Design/Graphic Design Details

Sign Construction - Sections and Plans

General Notes
core colours

- clear anodized coating
  application: sign structure
- PANTONE 185 C
  application: pinstrip, arrows
- white
  application: text
- PANTONE Cool Gray 11 C
  application: background
- PANTONE Black 3 C
  application: background
- PMS Black 3C
  black anodized
  application: blade body

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHijklMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 11 - Street Blade
typography, colours and pictograms
as noted

sheet number: 02
blade type a (long) double sided  scale 1:5

Description:
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate

Blade: black anodized aluminum
Vinyl: 3M IJ180, MPI 2005 or equivalent
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

1) One piece vinyl to be printed on, installed as per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer.
3) Wrap vinyl and overlaminate over the edges of the aluminum panel.
4) If long text message, then typeset should be scaled down horizontally to fit in the provided space - coordinate all cases with University of Victoria.

Refer to Adobe Photoshop files for detailed sample layout.

blade type b (short) double sided  scale 1:5

Description:
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate

Blade: black anodized aluminum
Vinyl: 3M IJ180, MPI 2005 or equivalent
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

1) One piece vinyl to be printed on, installed as per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer.
3) Wrap vinyl and overlaminate over the edges of the aluminum panel.
4) If long text message, then typeset should be scaled down horizontally to fit in the provided space - coordinate all cases with University of Victoria.

Refer to Adobe Photoshop files for detailed sample layout.
400mm dia. concrete foundation reinforced w/ 5-15M vert. 10M ties @ 300mm

1200mm x 1200mm x 250mm concrete footing reinforced w/ 4-15M each way, centre

225mm x 225mm x 19mm slip base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts with washers and leveling nuts (typ) nuts to extend max 10mm above bolt
Thread to be locked with Locktite 271 Red - clean any visible residue after application (typ) 4-19mm wall screws (typ)

102mm dia. 6.4mm thick walls aluminum tube w/ clear anodized finish (typ)

3.2mm thick aluminum rain cap w/ clear anodized finish, welded to post (typ)

15-CRB404 by Dyna or equivalent (typ) 15-CRB404 by Dyna or equivalent (typ)

225mm x 225mm x 19mm slip base plate w/ clear anodized finish welded to post (typ)

fill with 35 MPa non-shrink grout (typ) fill with 35 MPa non-shrink grout (typ)

200mm x 200mm x 200mm concrete footing reinforced w/ 4-15M by 15-CRB404 by Dyna or equivalent (typ) 102mm dia. 6.4mm thick walls aluminum tube w/ clear anodized finish (typ)

aluminum sign bracket 15-CB2400 by Dyna or equivalent (typ) bracket to receive clear anodized finish blade fastened mechanically to post with min. two 12 mm dia. tamper resistant s/s bolts (typ) 4-19mm wall screws (typ)

6.4mm aluminum plate - sign blade (typ)

aluminum sign bracket 15-CB2400 by Dyna or equivalent (typ) bracket to receive clear anodized finish blade fastened mechanically to post with min. two 12 mm dia. tamper resistant s/s bolts (typ) 4-19mm wall screws (typ)

notes:
1) number, orientation and configuration of blades varies - refer to sign message schedule
2) confirm with University of Victoria
3) maximum number of blades per sign - 8
4) maximum number of blades per sign in one direction - 3
5) number, orientation and configuration of blade varies - refer to sign message schedule
6) if sign located in paved area provide expansion joint (typ)
7) manufacturer to confirm all dimensions prior to fabrication.

section a
front view/section scale 1:15

plan a scale 1:15

NOTES:
1. General note: Manufacturer to confirm all dimensions prior to fabrication.
GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan.
2. Fasteners:
   - foundation (anchor bolts):
     - bolts: Fastenal part #747406 (1/2" s/s threaded rod)
     - washers: Fastenal part #71021 (1/2" s/s washers)
     - nuts: Fastenal part #7071 (1/2" s/s nuts)
     - thru bolts: Fastenal part #73815 (3/8" s/s x 1" button Socket cap screw)
3. Threadlocker: Locktite 271 Red
4. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating) are protected against rusting.
5. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
6. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

DRAWINGS
1. These drawings show the completed project. The drawings do not show components that may be necessary for construction safety, which is the responsibility of the contractor.
2. The use of these drawings is limited to that indicated in the revisions column.
3. The information on these drawings shall not be used for any other project or works.

FIELD REVIEW BY STRUCTURAL ENGINEER
1. Connection hardware to be stainless steel uno.
2. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping screws at 450mm maximum centre to centre spacing.
3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
4. Panel connection screws to be tamper resistant "Torx-Pin" screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
5. Visible connection bolts shall be "Pentagon" tamper resistant bolts, with "Pentagon" nuts as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer. Anchor bolts to be secured with "Pentagon" security nuts.
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Sign No. 12
Pedestrian - Minor Wayfinding A

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 12 - Minor Wayfinding A
title sheet and drawing list
as noted

sheet number: 01
core colours

- clear anodized coating
  application: sign structure
- PANTONE 185 C
  application: pinstrip, arrows
- PANTONE 426 C
  application: text, crest - monochromatic
- PANTONE 7541 C
  application: background, back panel (single sided sign)
- gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full colour

reverse monochromatic - shown against background for clarity

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 12 - Minor Wayfinding A
typography, colours and pictograms as noted

sheet number: 02
Minor Wayfinding A
scale 1:15

Peterson Health Centre
Richard Wilson Hall
Wallace Hall
Poole House
Commonwealth Village
Engineering Office Wing
Medical Sciences

Minor Wayfinding A (with pictograms)
scale 1:15

Peterson Health Centre
Richard Wilson Hall
Wallace Hall
Poole House
Commonwealth Village
Engineering Office Wing
Medical Sciences

Project: Campus Wayfinding
Number: FM 09-8567
Issue Date: April 1, 2019
Sheet Name: Sign No. 12 - Minor Wayfinding A
Sign Design - Overview
Scale: As Noted
Sheet Number: 03
Wallace Hall

opaque monochromatic reversed crest
crest height: 95 mm
pin strip to be 15 mm wide (typ)

Description
Digitally printed vinyl protected with
anti-graffiti, optically clear overlaminate
Aluminum panel size (one piece): 800 mm x 1050 mm x 6.4 mm
See sheet 05 for details.

Vinyl: 3M IJ180, MPI 2005 or equivalent
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

1) One piece vinyl to be printed on, installed as
per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates
as recommended by manufacturer
3) Wrap vinyl and overlaminate over the edges
of the aluminum panel.
4) If single sided sign then back panel to receive
vinyl printed with PANTONE 7541 C

Refer to Adobe Photoshop files for detailed sample layout

---

peterson health centre
richard wilson hall
wallace hall
poole house
commonwealth village
engineering office wing
medical sciences

text area

800
150

scale 1:15

---

peterson health centre
richard wilson hall
wallace hall
poole house
commonwealth village
engineering office wing
medical sciences

option w/ pictograms

---

peterson health centre
richard wilson hall
wallace hall
poole house
commonwealth village
engineering office wing
medical sciences

option without pictograms

---

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 12 - Minor Wayfinding A
sheet name: scale: graphic design details as noted

sheet number: 04

University of Victoria
102mm x 102mm x 6.4mm aluminum square tube with clear anodized finish (typ).

225mm x 225mm x 19mm base plate with clear anodized finish welded to post.

51mm x 51mm x 4.8mm aluminum square tube internal framing. All connection to be welded (typ).

3.2mm thick aluminum rain cap, welded to post rain cap to have clear anodized finish (typ).

Leave 10mm min. gap between post and rain cap (typ).

12 mm dia. tamper resistant s/s thru bolt (typ).

38 mm dia. hole for bolt installation.

40mm x 10mm aluminum spacer w/ clear anodized finish. Spacer to terminate 50mm from top and bottom of framing (typ).

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

102mm x 102mm x 6.4mm aluminum square tube w/ clear anodized finish (typ).

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

25mm dia. hole for bolt installation.

4-19mm s/s anchor bolts with washers and leveling nuts (typ). Nuts to extend max 10mm above bolt.

Fill with 35 MPa non-shrink grout (typ).

40mm dia. concrete foundation reinforced with 5-15M vert. 10mm ties @ 300mm. Two ties at top.

400mm dia. concrete foundation.

600 min. base to extend min 50mm above ground.

EQ

6.4mm thick aluminum sign panel to be mechanically fastened to internal framing with tamper resistant s/s screws.

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
6.4mm thick aluminum plate (sign panel)
51mm x 51mm x 4.8mm aluminum square tube (internal framing)
3.2mm thick aluminum rain cap beyond w/ clear anodized finish welded to post (typ)
12 mm dia. tamper resistant s/s thru bolt and washer (typ)
38mm dia hole (bolt access)
51mm x 51mm x 4.8mm aluminum square tube (internal framing)
panel to extend 5mm below internal framing

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

section detail 1 scale 1:2

section detail 2 scale 1:2

section b (slip base) scale 1:5
CONCRETE AND REINFORCING STEEL
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Concrete shall have a unit weight of 23±1 kN/m³ (145±5 psf) unless noted otherwise.
4. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-6%. Maximum aggregate size to be 19mm.
5. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

STRUCTURAL ALUMINUM
1. Aluminum sections shall be new.
2. Aluminum alloys shall conform to the Aluminum Association publication Aluminum Standards and Data ISO 6361-2 or ISO 6362-2.
3. Aluminum in contact with concrete or grout shall be given a heavy coat of alkali-resistant bituminous paint or other equivalent coating before installation.
4. Welding operators and procedures shall be qualified according to CSA W47.2.
5. Submit shop drawings for review prior to start of steel fabrication.

FIELD REVIEW BY STRUCTURAL ENGINEER
1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.
2. Field review by Structural Engineer is not carried out for the Contractor’s benefit, nor does it make Structural Engineer guarantors of the Contractor’s work. It remains the Contractor’s responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.
3. Provide 24 hours advance notice of each required field review. Field reviews shall be scheduled to be carried out during normal business hours unless special arrangements are made with Structural Engineer.
4. The work to be reviewed shall be generally complete.

TAMPER RESISTANCE AND CONNECTIONS
1. Connection hardware to be stainless steel uno.
2. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping screws at 450mm maximum centre to centre spacing.
3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
4. Panel connection screws to be tamper resistant “Torx-Pin” screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
5. Visible connection bolts shall be “Pentagon” tamper resistant bolts, with “Pentagon” nuts as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer. Anchor bolts to be secured with “Pentagon” security nuts.
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Sign No. 13
Pedestrian - Minor Wayfinding B
**core colours**

- **clear anodized coating**
  - application: sign structure
- **PANTONE 185 C**
  - application: pinstrip, arrows
- **PANTONE 426 C**
  - application: text, crest - monochromatic
- **PANTEONE 7541 C**
  - application: background
- **gary oak motif**
  - digital file is to be delivered by University of Victoria

**samples of typeface family**

*Myriad Pro Semi Bold*

```
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890
```

**University of Victoria Logo, horizontal standard**

**full colour**

- **reverse monochromatic**
  - shown against background for clarity

---

**project:** Campus Wayfinding  
**number:** FM 09-8567  
**issue date:** April 1, 2019  
**sign:** Sign No. 13 - Minor Wayfinding  
**sheet:** 02  
**design/ graphic design details**

---
Description:
One sided sign. Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Vinyl and overlaminate to lap over the sign edges.

Vinyl: 3M IJ180, MPI 2005 or equivalent
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

1) One piece vinyl to be printed on, installed as per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer.

Refer to Adobe Photoshop files for detailed sample layout.
Aluminum panel size:
600 mm x 350 mm x 6.4 mm

type 3 sign scale 1:5

Residence A
Residence B

100
10
80
80
75
75
335 (copy area)
65

optional pictograms - coordinate with University of Victoria

crest height: 60mm

type size: 150pt

leading: 250pt

Aluminum panel size:
700 mm x 350 mm x 6.4 mm

type 4 sign scale 1:5

Sample Text Line 1
Sample Text Line 2

100
10
80
80
75
75
435 (copy area)
65

optional pictograms - coordinate with University of Victoria

fastener typical location on sign
scale 1:1

plastic expansion anchor - as required

12mm thick PVC spacer

4mm thick rubber gasket

vinyl

aluminum panel

s/s tamper resistant fastener appropriate for the mounting surface

wall surface

typical mounting detail
scale 1:1

project:
Campus Wayfinding

number:
FM 09-8567

issue date:
April 1, 2019

sign:
Sign No. 13 - Minor Wayfinding B

sheet name:
sign and graphic design, mounting details

as noted

sheet number:
04

University of Victoria
GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan.
   Form and placement of stickers on signs is to be coordinated with University of Victoria.
2. Fasteners:
   - security screws panel attachment: Fastenal part #160951 (10 x 2" button head tapping screw s/s 6 lobe)
3. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

FIELD REVIEW BY STRUCTURAL ENGINEER

1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer. Field review by Structural Engineer is not carried out for the Contractor's benefit, nor does it make Structural Engineer guarantors of the Contractor's work. It remains the Contractor's responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or the failure of any of them to carry out the work in accordance with the contract documents.
2. Provide 24 hours advance notice of each required field review. Field reviews shall be scheduled to be carried out during normal business hours unless special arrangements are made with Structural Engineer.
3. The work to be reviewed shall be generally complete.

CONCRETE AND REINFORCING STEEL

2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-6%. Maximum aggregate size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

STRUCTURAL ALUMINUM

1. Aluminum sections shall be new.
2. Aluminum alloys shall conform to the Aluminum Association publication Aluminum Standards and Data ISO 6361-2 or ISO 6362-2.
3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
4. Aluminum in contact with concrete or grout shall be given a heavy coat of alkali-resistant bituminous paint or other equivalent coating before installation.
5. Welding operators and procedures shall be qualified according to CSA W47.2.
6. Submit shop drawings for review prior to start of steel fabrication.
7. Fabrication practices and tolerances shall be in accordance with CAN/CSA-S16, except bolt holed edge distance tolerance to be ±0.2mm.
8. Anchor and connection bolts to be ASTM A193 Stainless Steel. Anchors shall be embedded 300mm into concrete, complete with a nut and washer each end.
9. Unless noted otherwise, column base plates shall be 20 mm minimum thick. Anchor bolt holes shall be punched undersize and reamed to size.
10. Provide 6 mm cap plates for all tube members uno.
11. Aluminum shall be connected with fillet welds all-around uno. Weld size shall match the wall thickness of the thinnest part being connected uno. Welds to be ground smooth.

TAMPER RESISTANCE AND CONNECTIONS

1. Connection hardware to be stainless steel uno.
2. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping screws at 450mm maximum centre to centre spacing.
3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
4. Panel connection screws to be tamper resistant “Torx-Pin” screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
5. Visible connection bolts shall be “Pentagon” tamper resistant bolts, with “Pentagon” nuts as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer. Anchor bolts to be secured with “Pentagon” security nuts.
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Sign No. 15
Minor Pedestrian Map

Project: Campus Wayfinding
Number: FM 09-8567
Issue date: April 1, 2019
Sign: Sign No. 15 - Minor Pedestrian Map
Sheet: title sheet and drawing list

Sheet number: 01
samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHJKLMNOPQRSTUVWXYZ
abcdefgijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full colour

reverse monochromatic - shown against background for clarity

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 15 - Minor Pedestrian Map
typography, colours and pictograms
as noted

sheet number: 02
Description
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate on front and back of panel. Edges of the panel to be spray painted with Mathews, two part Acrylic Polyurethane or equivalent. Aluminum panel size: 780 mm x 600 mm x 6.4 mm

Vinyl: 3M IJ180, MPI 2005 or equivalent. Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

1) One piece vinyl to be printed on, installed as per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer.
3) Edges of the aluminum panel to be spray painted with PANTEONE 7541 C colour.
4) Back of the panel to receive vinyl with printed PANTEONE 7541 C colour.
4) Digital file with Directory Map is to be delivered by University of Victoria.

Refer to Adobe Photoshop files for detailed sample layout.
Grade 900 (min) reinforced with 5-15M vert. 10mm ties @ 300mm

225mm x 225mm x 12.5mm base plate w/ clear anodized finish welded to post

4-12.5mm s/s anchor bolts with leveling nuts (typ)

Nuts to extend max 10mm above bolt

Fill with 35 MPa non-shrink grout (typ)

12.5mm s/s anchor bolts with washers and leveling nuts. Bolt to extend 10mm max. above nut. Thread to be locked with Locktite 271 Red - clean any visible residue after application (typ)

6.4mm aluminum plate (sign panel)

76mm x 76mm x 6.4mm aluminum square tube w/ clear anodized coating (typ)

225mm x 225mm x 12.5mm base plate w/ clear anodized finish welded to post

4-12.5mm s/s anchor bolts with leveling nuts (typ)

4-12.5mm s/s anchor bolts with leveling nuts (typ)

4-12.5mm s/s anchor bolts with leveling nuts (typ)

12mm dia. tamper resistant s/s thru bolt (typ)

4-12.5mm s/s anchor bolts with washers and leveling nuts. Bolt to extend 10mm max. above nut. Thread to be locked with Locktite 271 Red - clean any visible residue after application (typ)

102mm x 102mm x 6.4mm aluminum square tube w/ anodized coating (typ)

225mm x 225mm x 12.5mm aluminum base plate w/ clear anodized coating welded to post (typ)

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan.
2. Fasteners:
   - foundation (anchor bolts):
     - bolts: Fastenal part #47406 (1/2" s/s threaded rod)
     - washers: Fastenal part #71021 (1/2" s/s washers)
     - nuts: Fastenal part #70714 (1/2" s/s nuts)
   - posts:
     - thru bolts: Fastenal part #10630-04183 (1/2" s/s x 4" button Socket Cap Screw)
     - thru bolt washers: Fastenal part #71021 (1/2" s/s washers)
     - thru bolt nuts: 70714 (1/2" s/s nuts)
3. Threadlocker: Locktite 271 Red
4. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating) are protected against rusting.
5. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

STRUCTURAL NOTES

CONCRETE AND REINFORCING STEEL

2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate size to be 19mm.
6. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

STRUCTURAL ALUMINUM

1. Aluminum sections shall be new.
2. Aluminum alloys shall conform to the Aluminum Association publication Aluminum Standards and Data ISO 6361-2 or ISO 6362-2.
3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
4. Aluminum in contact with concrete or grout shall be given a heavy coat of alkali-resistant bituminous paint or other equivalent coating before installation.
5. Welding operators and procedures shall be qualified according to CSA W47.2.
6. Submit shop drawings for review prior to start of steel fabrication.
7. Fabrication practices and tolerances shall be in accordance with CAN/CSA-S16, except bolt hole edge distance tolerance to be -0, +2mm.
8. Anchor and connection bolts to be ASTM A193 Stainless Steel. Anchors shall be embedded 300mm into concrete, complete with a nut and washer each end.
9. Unless noted otherwise, column base plates shall be 20 mm minimum thick. Anchor bolt holes shall be punched undersize and reamed to size.
10. Provide 6 mm cap plates for all tube members uno.
11. Aluminum shall be connected with fillet welds all-around uno. Weld size shall match the wall thickness of the thinnest part being connected uno. Welds to be ground smooth.

FIELD REVIEW BY STRUCTURAL ENGINEER

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3. The work to be reviewed shall be generally complete.
4. The following wind loads and factors were used: q50=0.63kPa, hw=1.0-ULS, 0.75-SLS.

FIELD REVIEW BY STRUCTURAL ENGINEER

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3. The work to be reviewed shall be generally complete.

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3. The work to be reviewed shall be generally complete.