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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, crest - reversed monochromatic
- 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 color

opaque monochromatic

opaque monochromatic reversed

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

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

sheet number: 02
Sign No. 1 - Main Gateway

gateway sign  scale 1:20

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

sheet number: 03

sign: Sign No. 1 - Main Gateway
sheet name: sign design - overview
scale: as noted

University of Victoria
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 650mm x 6.4mm

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

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

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel size: 580 mm x 1495 mm x 3.2 mm

University of Victoria

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) Manufacturer to confirm all dimensions prior to fabrication.
6) Manufacturer to ensure watertightness of panel connections.
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 thru pictograms
Scale 1:15
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

cross section scale 1:20
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.

distance determined by good light distribution

6.4mm alu. plate (sign panel) mechanically fastened to sign framing
printed-on vinyl
19 mm thick acrylic pictograms
diffusion layer

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

3.2mm thick aluminum panel ensure watertightness of connection (typ)
19mm thick PVC backer, as required, glued to the back of the aluminum panel
self tapping, s/s, tamper resistant screws (typ)

51mm x 51mm x 4.8mm aluminum square tube beyond (sign framing)
cont. 51mm x 51mm x 4.8mm aluminum angle
6 mm dia. s/s thru bolt (typ)
19mm thick acrylic pictograms
diffusion layer

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.
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

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. 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 pc) 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.
Sign No. 2A
Vehicular - Parking Lot

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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)
  crest - reversed monochromatic
grey 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

opaque monochromatic

opaque monochromatic reversed

Project: Campus Wayfinding
Number: FM 09-8567
Issue Date: Jan 31, 2012

Sign: Sign No. 2A - 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)

type size: 290pt
pictograms are 100mm x 100mm

version 1

Permits Only
LOT 5
7am - 6pm Mon-Fri

120
220
540
75

type size: 190pt
leading: 195pt

2) Use compatible UV inks and overlaminates as recommended by manufacturer.

3) Wrap vinyl and overlaminates 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

scale 1:15

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

sign: Sign No. 2A - Parking Lot
sheet name: graphic design details
scale: as noted

sheet number: 04

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

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

3. Use 51mm x 51mm x 4.8mm aluminum square tube for internal framing. All connections to be welded (typ).

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

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

6. Use 38 mm dia. hole for bolt installation.

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

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

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

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

11. Use nuts to extend max 10mm above bolt.

12. Use 400mm dia. concrete foundation reinforced with 5-15M vert. 10mm ties @ 300mm. Two ties at top.

13. Use fill with 35 MPa non-shrink grout (typ).

14. Use 600 min. critical dimensions.

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

16. Leave open at bottom (typ).

17. Base to extend min 50mm above ground.

18. Slope of grade varies.

19. Use 25mm dia. hole for bolt installation.

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

21. Require 400mm dia. concrete foundation to be mechanically fastened to internal framing with tamper resistant s/s screws.

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

23. Use 600 min. critical dimensions.

24. Use 50 min. critical dimensions.

25. Use 400mm dia. concrete foundation. Two ties at top.

26. Use 38 mm dia. hole for bolt installation.

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

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

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

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

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

102mm x 102mm x 19mm aluminum square tube w/ anodized coating (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

6.4mm thick aluminum plate (sign panel)

s/s self tapping, tamper resistant screws

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

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 detail 2 scale 1:2

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)

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

section b (slip base) scale 1:5

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 #174786 (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)
     - 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.

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: q50=0.63kPa, Iw=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 gp 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 5.6%. 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 bilumious 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.

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 “Tork-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.
6. Anchor bolts to be secured with “Pentagon” security nuts.
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Sign No. 2C
Vehicular - Parking Lot
core colours

- clear anodized coating
  application: sign structure
- PANTONE 185 C
  application: pinstrip, arrows
- PANTONE 426 C
  application: text, crest - monochromatic
- PANTONE 424 C
  application: background
- PANTONE 7541 C
  application: background, back panel (single sided sign) crest - reversed monochromatic
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

opaque monochromatic

opaque monochromatic reversed

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project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

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

sheet name: as noted
scale: 1/3X

sheet number: 02
pin strip to be 15 mm wide (typ)

opaque monochromatic reversed crest
crest height: 95 mm

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.
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)

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

1000 x 1700 x 6.4mm thick alu. sign panel
to be mechanically fastened
to internal framing with tamper resistant s/s screws

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)

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

400mm dia. concrete foundation

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

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)

38 mm dia. hole for bolt installation

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)

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

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

section detail 1 scale 1:2

38mm dia hole (bolt access)

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

panel to extend 5mm below internal framing

section detail 2 scale 1:2

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

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

s/s washer

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

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)

section b (slip base) scale 1:5

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:
   - Form and placement of stickers on signs is to be coordinated with University of Victoria.
   - Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and referenced documents.
   - Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
   - Cover to reinforcing steel to be 50mm uno.
   - Portland cement shall be type gu unless noted otherwise.
   - Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise. Maximum aggregate size to be 19mm.
   - 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.
   - 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.
   - The following wind loads and factors were used: q50=0.63kPa, Iw=1.0-ULS, 0.75-SLS.
   - Connection hardware to be stainless steel uno.
   - Tamper resistance and connections are as follows:
     - 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.
     - Anchor bolts to be secured with “Pentagon” security nuts.
     - Anchor 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. 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.

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

4. Welding operators and procedures shall be qualified according to CSA W47.2.

5. Welding operators and procedures shall be qualified according to CSA W47.2.

6. Welding operators and procedures shall be qualified according to CSA W47.2.

7. Welding operators and procedures shall be qualified according to CSA W47.2.

8. Welding operators and procedures shall be qualified according to CSA W47.2.

9. Welding operators and procedures shall be qualified according to CSA W47.2.

10. 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.

11. The following wind loads and factors were used: q50=0.63kPa, Iw=1.0-ULS, 0.75-SLS.

12. 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.

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

14. Anchor 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.

15. 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.

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

Vehicular - Building Identification

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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) crest - reversed monochromatic
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHJKLMNPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full color

opaque monochromatic

opaque monochromatic reversed

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

sign: Sign No. 3A - Building Identification
typography, colours and pictograms
as noted

sheet number: 02
Clearihue Building
Welcome Centre
Farquhar Auditorium

Clearihue Building

Administrative Services
Building

Clearihue Building
Single Line - Occupant
Double Line Stacked
Occupant Name Line 2

building name with occupant names
scale 1:15

building name, text in one line
scale 1:15

building name, text in two lines
scale 1:15

building name, text in two lines (double line stacked)
scale 1:15

Project: Campus Wayfinding
Number: FM 09-8567
Issue Date: Jan 31, 2012
Sign: Sign No. 3A - Building Identification
Sheet Name: as noted
Sheet Number: 03
Description
Digitally printed vinyl protected with anti-graffiti, optically clear overlamine
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 overlamine 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
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 (typ)

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

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 (typ)

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

fill with 35 MPa non-shrink grout (typ)

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

two ties at top

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

400mm dia. concrete foundation

section a scale 1:15
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.

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

6.4mm thick aluminum plate (sign panel)

38mm dia. hole for bolt installation

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

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)

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

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

s/s self tapping, tamper resistant screws

s/s washer

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)

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

51mm x 51mm x 4.8mm aluminum square tube

6.4mm thick aluminum plate (sign panel)

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.
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 #174786 (10-24 x 3/4" button Socket Cap Screw)
     - thru bolt washers: Fastenal part #71021 (1/2" s/s washers)
     - thru bolt nuts: 70714 (1/2" s/s nuts)

CONCRETE AND REINFORCING STEEL

2. Fasteners:

   - 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)
   - panel:

   - security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)

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

3. Fasteners:
   - thru bolt washers: Fastenal part #71021 (1/2" s/s washers)
   - thru bolt nuts: 70714 (1/2" s/s nuts)

3. 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.
4. 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 in contact with concrete or grout shall be given a heavy coat of alkali-resistant bituminous paint or other equivalent coating before installation.
3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
4. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping screws at 450mm maximum centre to centre spacing.
5. Welding operators and procedures shall be qualified according to CSA W47.2.
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. 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.
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. 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. 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.

1. 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.

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.
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**Sign No. 3B**

**Vehicular - Building Identification**

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**Project:** Campus Wayfinding  
**Number:** FM 09-8567  
**Issue Date:** Jan 31, 2012  
**Sign:** Sign No. 3B - Building Identification  
**Sheet:** 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), crest - reversed monochromatic

samples of typeface family

Myriad Pro Semi Bold

ABCDEFghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

arrow style and arrow size in relation to text height

- 45°
- 1/3X
- 1/2X
- varies

full colour

- opaque monochromatic
- opaque monochromatic reversed

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

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

sheet name: University of Victoria
number: 02
Building Name

Occupant Line 1
Occupant Line 2

760 max. length of text

Strong Bldg

760 max. length of text

Text Line 1
Text Line 2

Pin strip to be 15 mm wide (typ)
GaryOak Motif (typ)

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

building name
type size: 338pt
occupant name
type size: 258pt
leading: 310pt (auto)

building name with
building occupants

leading: 410pt (auto)

building name,
text in one line

type size: 338pt

building name,
text in two lines

type size: 338pt

Resolution

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 overlaminates 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: FM 09-8567
Issue Date: Jan 31, 2012
Sign: Sign No. 3B - Building Identification
Sheet Name: sheet 04
Sign Design - Graphic Design Details
Scale: 1:15
leer 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)

1125

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)

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)
screws to extend max 10mm above bolt
fill with 35 MPa non-shrink grout (typ)

grade

slope of grade varies

two ties at top

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

400mm dia. concrete foundation

400mm dia. concrete foundation

fill with 35 MPa non-shrink grout (typ)

General Note:
Manufacturer to verify all diemnsions 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)

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)

38mm dia hole for bolt installation

12 mm dia. tamper resistant s/s thru bolt and washer (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 coating welded to post (typ)

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
   Form and placement of stickers on signs is to be coordinated 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)
   - posts:
     - thru bolts: Fastenal part #14748 (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)
     - 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 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.

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.

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.
6. Anchor bolts to be secured with "Pentagon" security nuts.
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**Sign No. 4**

**Vehicular - Map Directory Kiosk**
clear anodized coating  
PANTONE 185 C  
PANTONE 426 C  
PANTONE 7541 C  
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

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

sign: Sign No. 4 - Vehicular Map Directory Kiosk
typography, colours and pictograms as noted

sheet number: 02
Sign No. 4 - Vehicular Map Directory Kiosk

sign design - overview

as noted
Campus Soccer Championship
June 6th, 2009

pin strip to be 15 mm wide (typ)

crest height: 95 mm

directory map shown for reference only.

type size: 30.65pt

type size: 90pt

non-glare clear acrylic panel,
digitally printed-on vinyl, diffusion layer.
Acrylic panel size: 2100 mm x 1200 mm x 6.4 mm
directory map to be provided in digital format
by University of Victoria (typ)

1st surface prints:
Vinyl: 3M U180, 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) 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 overlaminates over the edges of the aluminum panel.

main back panel scale 1:20
front scale 1:20

If single sided unit then the back panels to be
one 2400mm x 750mm, 6.4mm thick aluminum panel
with clear anodized coating.

Refer to Adobe Photoshop files
for detailed sample layout

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

sign: Sign No. 4 -Vehicular Map Directory Kiosk
sheet name: as noted

scale: as noted
sheet number: 05
203mm x 203mm x 6.4mm aluminum square tube w/ clear anodized finish
350mm x 350mm x 25mm base plate w/ clear anodized finish welded to post (typ)
grade 4-19mm s/s anchor bolts with leveling nut (typ)

detail 2.09 piano hinge
always maintain 5mm min gap between plywood and sign framing

section b-b
203mm x 200mm x 6.4mm aluminum square tube w/ clear anodized finish
2 x 51mm x 127mm x 4.8mm aluminum rectangular tube (sign framing) all connections to be welded
51mm x 51mm x 4.3mm aluminum angle (plywood support)

25mm min thick concrete pad
19mm thick marine grade plywood (LED support)

Virgolite LED Contactless System
Mega Bright Model MBL-WH-6000K
12 LED’s per module or equivalent space fixtures as per manufacturer’s recommendations to ensure even light distribution

Control joint
2 x 51mm x 127mm x 4.8mm aluminum rectangular tube (sign framing) all connections to be welded
25 mm dia PVC conduit
3.2 mm thick aluminum sheet on top and 6.4 mm thick on sides w/ clear anodized coating or paint finish (to be determined by UVic) attached to roof members
extend roof sheeting 10 mm min. below roof members

control joint
2 x 51mm x 127mm x 4.8mm aluminum rectangular tube (sign framing) all connections to be welded
51mm x 51mm x 4.3mm aluminum angle (plywood support)

Fill with 35 MPa non-shrink grout (typ)
1585 765
15.00°

2 ties at top
600 mm x 600 mm plaster reinforced w/ 8-C15M vert. 10M @ 250 ties
4-15M each way top and bottom

1) provide ventilation holes as required
2) Leltek Virgolite LMP5 -750 power supply to provide source of power to a maximum 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.
203mm x 203mm x 6.4mm aluminum square tube w/ clear anodized finish

grade

fill with 35 MPa non-shrink grout (typ)

section a

long section scale 1:20

Virgolite LED Contactless System Mega Bright Model MBL-WH-6000K
12 LED’s per module or equivalent space fixtures as per manufacturer’s recommendations to ensure even light distribution

section a scale 1:20

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.

canopy (anodized finish option)
plan scale 1:20

detail 1 (side view) scale 1:5

- 51mm x 102mm x 3.2mm aluminum rectangular tube w/ clear anodized coating
- all connections to be welded

- 38 mm x 76 mm x 3.2 mm x 300 mm long sleeve w/ shims at sides as required
- Grind out tube weld seam for tight fit.

- 1-19 mm dia. tamper resistant s/s thru bolt at each side.

- silicone caulking
- gasket
- 3.2mm thick aluminum sheet w/ clear anodized coating

- 25 mm x 25mm x 3.2 mm aluminum angle welded to roof sheeting prior to anodizing process.
- s/s self tapping screws (typ)
- 51mm x 102mm x 3.2mm aluminum rectangular tube w/ clear anodized coating
- all connection to be welded

- detail 2 scale 1:5

- 51mm x 102mm x 3.2mm aluminum rectangular tube w/ clear anodized finish

- half an ellipse
- detail 1/08
- detail 2/08

- 3.2mm thick aluminum sheet w/ clear anodized coating
- silicone caulking
- gasket

- s/s self tapping screws (typ)
- 51mm x 102mm x 3.2mm aluminum rectangular tube w/ clear anodized coating
- all connection to be welded

- 38 mm x 76 mm x 3.2 mm x 300 mm long sleeve w/ shims at sides as required
- Grind out tube weld seam for tight fit.
General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

canopy (paint finish option)
plan scale 1:20
**Detail 1, Scale 1:2**

- Front:
  - 6.4mm thick clear acrylic panel, vinyl with digital print diffusion layer.
  - Ventilation holes as required.
  - 6mm dia. s/s thru bolt (typ).
  - 38mm dia. hole beyond for bolt installation.

- Back:
  - 6mm dia. s/s thru bolt (typ).
  - 19mm PVC (LED support).
  - Ventilation holes as required.
  - Virgolite LED Contactless System or equivalent on both sides.
  - Weld plate all-around to roof rafter.

**Detail 2, Scale 1:5**

- 3.2mm thick aluminum sheet w/ clear anodized coating or paint finish (to be determined by UVic) attached to roof members.
- 19mm dia. tamper resistant s/s thru bolt (typ).
- See structural notes.
- 51mm x 102mm x 3.2mm aluminum rectangular tube w/ clear anodized coating or paint finish (to be determined by UVic) all connection to be welded.
- Aluminum plate 6.4mm thick w/ clear anodized coating or paint finish on each side of post w/ 4-19mm dia tamper resistant s/s thru bolts.

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**Project:** Campus Wayfinding  
**Number:** FM 09-8567  
**Issue Date:** Jan 31, 2012  
**Sign:** Sign No. 4 - Vehicular Map Directory Kiosk  
**Sign Construction - Details:** As noted  
**Sheet Number:** 10  
**Author:** University of Victoria
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.

1. Aluminum sections shall be new.

2. The use of these drawings is limited to that indicated in the revisions column.

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.

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. 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.


2. Reinforcing shall conform to CAN/CSA-G30.1R – 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 E-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.
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**Sign No. 5**

**Digital Message Board**

**Title sheet and drawing list**

**Sign No. 5 - Digital Message Board**

**Sheet number:** 01

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**Project:** Campus Wayfinding  
**Number:** FM 09-8567  
**Issue date:** Jan 31, 2012
**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
1234567890
```

**University of Victoria Logo, horizontal standard**

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

sign: Sign No. 5 - Digital Message Board
typography, colours and pictograms as noted

sheet number: 02
TEST DRIVE YOUR CAMPUS
WITH EXPERIENCE UVIC
AND DESTINATION UVIC

Project: Campus Wayfinding
Number: FM 09-8567
Issue Date: Jan 31, 2012

Sign No. 5 - Digital Message Board
Sign Design - Overview

Scale: 1:20

Sheet Name: 03

Double sided/single sided sign

As noted
Description
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate
Aluminum panel size (one piece): 2950 mm x 250 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) 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.

double sided/single sided unit scale 1:20
203mm x 203mm x 6.4mm aluminum square tube w/ clear anodized coating (typ)

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

25mm thick aluminum spacer w/ clear anodized finish.

27 mm dia PVC conduit
min depth 450 mm
600mm in traffic areas
**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: \( q_{50}=0.63 \text{kPa} \), \( I_{w}=1.0-\text{ULS}, \) 0.75-\( \text{SLS} \).
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.

**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. 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-G30.1R – 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 kNm3/ (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.

**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 recomended 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.
Sign No. 6
Vehicular - Directional

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

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**samples of typeface family**

**Myriad Pro Semi Bold**

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ABCDEFghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
1234567890
```

**University of Victoria Logo, horizontal standard**

**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), crest - reversed monochromatic
- **Gary oak motif - digital file is to be delivered by University of Victoria**

**full colour**

- **University of Victoria**
  - **opaque monochromatic**
  - **opaque monochromatic reversed**

**arrow style and arrow size in relation to text height**

- **45.00°**
- **1/3X**
- **1/2X**
- **1/3X**
- **varies**

---

**University of Victoria Logo, horizontal standard**

**full colour**

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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

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

Project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

Sign: Sign No. 6 - Directional
sheet name: sign design - overview
as noted

Sheet number: 03
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

Lot 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

type size: 275pt
type size: 230pt
leading: Auto

version 1

version 2
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 (typ)

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

alu. rain cap mechanically fastened
as required. rain cap to have clear anodized finish
leave 10mm min. gap between
post and rain cap (typ)

12 mm dia. tamper resistant s/s thru bolt (typ)
slope of grade varies

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

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

25/51mm x 19mm base plate
w/ clear anodized finish welded to post
192mm x 102mm x 19mm aluminum square tube
w/ clear anodized finish welded to post
4-19mm s/s anchor bolts

detail 2/06
400mm dia. concrete foundation
leave open at bottom (typ)

225mm x 225mm x 19mm base plate
w/ clear anodized finish welded to post
102mm x 102mm x 19mm aluminum square tube
w/ clear anodized finish.

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

Sign No. 6 - Directional sign construction - sections as noted

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

sign: Sign No. 6 - Directional sign construction - sections
sheet name: as noted
scale: as noted
sheet number: 05
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
s/s self tapping, tamper resistant screws
6.4mm thick aluminum rain cap with clear anodized finish
3.2mm thick aluminum rain cap beyond w/ clear anodized finish welded to post (typ)
51mm x 51mm x 4.8mm aluminum square tube (internal framing)
6.4mm thick aluminum plate (sign panel)
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
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:
- Foundation (anchor bolts):
  - bolts: Fastenal part #47406 (1/2" s/s threaded rod)
  - nuts: Fastenal part #70714 (1/2" s/s nuts)
- Posts:
  - thru bolt washers: Fastenal part #71021 (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)
- Rain cap attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)

- Threadlock: Locktite 271 Red

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

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.

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. 6
Vehicular - Directional
University House 1

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Project: Campus Wayfinding - Phase 1
Number: FM 09-8567
Issue date: Jan 31, 2012
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), crest - reversed monochromatic
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHJKLMNPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full color

opaque monochromatic

opaque monochromatic reversed

project: Campus Wayfinding - Phase 1
number: FM 09-8567
issue date: Jan 31, 2012

Sign No. 6 - University House 1
typography, colours and pictograms as noted

sheet number: 02
University House 1

north elevation scale 1:15

University House 1

south elevation scale 1:15

project: Campus Wayfinding - Phase 1
number: FM 09-8567
issue date: Jan 31, 2012

sign: Sign No. 6 - University House 1
sheet name: sign design - overview
scale: as noted

sheet number: 03
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
51mm x 51mm x 4.8mm aluminum square tube
internal framing
all connection to be welded (typ)

leave open at bottom (typ)

base to extend min 50mm
above ground

slope of grade varies

two ties at top

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

400mm dia. concrete foundation

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)

grade

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

detail 1/06

detail 1/06

detail 1/06

detail 2/06

detail 2/06

front view/section scale 1:15

side view/section scale 1:15

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.

section detail 2 scale 1:2

- 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)

section detail 1 scale 1:2

- 38mm dia. hole (bolt access)
- 51mm x 51mm x 4.8mm aluminum square tube (internal framing)
- 225mm x 225mm x 19mm aluminum base plate w/ clear anodized finish
- 6.4mm thick aluminum plate (sign panel)
- panel to extend 5mm below internal framing
- 12 mm dia. tamper resistant s/s thru bolt and washer (typ)
- 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

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:
   - Foundation (anchor bolts):
     - Bolts: Fastenal part #47406 (1/2" s/s threaded rod)
     - Washers: Fastenal part #2021 (1/2" s/s washers)
     - Nuts: Fastenal part #70714 (1/2" s/s nuts)
   - Posts:
     - Thrust bolt: Fastenal part #714786 (1/2" x 5" button Socket Cap Screw)
     - Thrust bolt washers: Fastenal part #71021 (1/2" s/s washers)
     - Thrust bolt nuts: 70714 (1/2" s/s nuts)
   - 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

CONCRETE AND REINFORCING STEEL


2. Reinforcing shall conform to CAN/CSA-G30.18– 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 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.

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. The work to be reviewed shall be generally complete.

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

4. Field review by Structural Engineer is not carried out during normal business hours unless special arrangements are made with Structural Engineer.

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

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

TAMPER RESISTANCE AND CONNECTIONS

1. Connection hardware to be stainless steel uno.

2. The use of these drawings is limited to that indicated in the reservations column.

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

4. Panel connection screws to be tamper resistant "Torx-Pin" screws as supplied by O.E.M.

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.

6. Anchor bolts to be secured with "Pentagon" security nuts.

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.
clear anodized coating
application: sign structure

PANTONE 368 C
application: pinstripe, arrows

PANTONE 426 C
application: text, crest - monochromatic

PANTONE 7541 C
application: background, back panel (single sided sign) crest - reversed monochromatic
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 color

opaque monochromatic

opaque monochromatic reversed

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

sign: Sign No. 7 - Finnerty Gardens
typography, colours and pictograms as noted

sheet name: as noted

scale: 45.00°

sheet number: 02
Description
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminates
Aluminum panel size (one piece): 1500 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 overlaminates 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.
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 (typ)
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.

leave 10mm min. gap between post and rain cap (typ)
51mm x 51mm x 4.8mm aluminum square tube internal framing all connection to be welded (typ)

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

600 min. 50 min.
4-19mm s/s anchor bolts reinforced with 5-15M vert. 10mm ties @ 300mm
225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post (typ)
102mm x 102mm x 19mm aluminum square tube w/ clear anodized finish.
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)

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)

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

6.4mm thick aluminum plate (sign panel)

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

38mm dia hole (bolt access)

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

6.4 mm thick aluminum rain cap with clear anodized finish

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

80

31

2

Project: Campus Wayfinding
Number: FM 09-8567
Issue Date: Jan 31, 2012

Sign: Sign No. 7 - Finnerty Gardens
Sheet Name: Sign construction - details
Scale: As noted

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)
     - nuts: Fastenal part #70714 (1/2" s/s nuts)
   - posts:
     - thru bolts: Fastenal part #147486 (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)
     - 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 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.

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.

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 gp 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

ABCDEFghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz

1234567890

University of Victoria Logo, horizontal standard

core colours

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

arrow style and arrow size in relation to text height

full colour

opaque monochromatic

opaque monochromatic reversed

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

sign: Sign No. 8 Pedestrian Map Directory Kiosk
typography, colours and pictograms 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 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
top panel:
3.2mm thick aluminum with
digitally printed vinyl (Gary Oak motif)
protected with anti-graffiti,
optically clear overlaminate.

digitally printed vinyl protected with
anti-graffiti, optically clear overlaminate.
19mm thick acrylic push-thru pictogram
Aluminum panel size:
1190 mm x 500 mm x 3.2 mm

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

digitally printed vinyl protected with
anti-graffiti, optically clear overlaminate.
19mm thick acrylic push-thru pictogram
Aluminum panel size:
1190 mm x 500 mm x 3.2 mm

non-glare clear acrylic panel,
digitally printed-on vinyl, diffusion layer.
Acrylic panel size: 1200 mm x 1200 mm x 6.4 mm

digitally printed vinyl protected with
anti-graffiti, optically clear overlaminate.
Aluminum panel size:
1190 mm x 150 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.
Sign No. 8 Pedestrian Map Directory Kiosk

Sign design - graphic design details cont.

Directory map shown for current directory map to be provided by University of Victoria

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

Manufacturer to confirm all dimensions prior to fabrication.

EQ.1

pin strip to be 15 mm wide (typ)

opaque monochromatic reversed

crest height: 95 mm

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

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.

EQ.1

type size: 50pt

type size: 22pt

EQ.1

pin strip to be 15 mm wide (typ)

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

EQ.1

pin strip to be 15 mm wide (typ)

EQ.1

pin strip to be 15 mm wide (typ)

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

EQ.1

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pin strip to be 15 mm wide (typ)

EQ.1

pin strip to be 15 mm wide (typ)

EQ.1

pin strip to be 15 mm wide (typ)

EQ.1

pin strip to be 15 mm wide (typ)
3.2 mm thick aluminum sheet on top and 6.4 mm thick on sides painted with 2-part urethane paint, to match coating on post welded to roof members

51 mm x 102 mm x 3.2 mm aluminum rectangular tube painted with 2-part urethane paint, to match coating on post all connection to be welded

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

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

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

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

US LED PSA-12-60 (LED120/4/12/2/50F) or equivalent power supply - one on each side of the sign

3.2 mm thick aluminum rolled cap bolted to sign framing top and bottom of cap to be flush with side panels

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

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

3000
2120
880
5145
1200
495

15.00°

US LED PSA-12-60 power supply to provide source of power to a maximum of 50 MegaBright 12 LED Modules

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.

1) Provide ventilation holes as required
2) US LED PSA-12-60 power supply to provide source of power to a maximum of 50 MegaBright 12 LED Modules
3) Sign must have a CSA label as an assembly
1200mm x 1200mm x 250mm concrete footing
expansion joint
150mm thick min. concrete pad
600mm x 600mm concrete post
25mm chamfered edge
outline of sign cabinet

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.)

600mm x 600mm concrete post
expansion joint
1200mm x 1200mm x 250mm concrete footing
150mm thick min. concrete pad
25mm chamfered edge
outline of sign cabinet

section a scale 1:15

US LED PSA-12-60
(LED12A0012V50F)
or equivalent power supply
one for each side of sign
2-19mm dia. s/s thru bolts (typ)
see structural notes

section b scale 1:15

US LED PNT-3-12-W or equivalent
US LED PSA-12-60
(LED12A0012V50F)
or equivalent power supply
one for each side of sign
2-19mm dia. s/s thru bolts (typ)
see structural notes

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 sign panel)

always maintain 20mm shadow depth on perimeter of the acrylic panel

6.4 mm thick custom made aluminum profile (panel support) as required - 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,

6.4 mm thick acrylic panel

6.4 mm thick, 38mm wide aluminum retainer with printed on vinyl/overlaminate finish

20mm shadow depth on perimeter of the acrylic panel

always maintain 20mm shadow depth on perimeter of the acrylic panel

6.4 mm thick aluminum spacer beyond as required

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

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 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 #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. Wherever 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

DRAWS

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: v50=0.63kPa, lw=1.0-ULS, 0.75-0.85.

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 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.
4. 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 the Structural Engineer.

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.

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 light manufacturing.
4. 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. 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, crest - reversed monochromatic
- 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

opaque monochromatic

opaque monochromatic reversed

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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. Aluminium panel size: 283 mm x 744 mm x 3.2 mm

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

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminium panel size: 744 mm x 506 mm x 6.4 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
51mm x 51mm x 4.8mm aluminum square tube (sign framing) all connections to be welded

2 x 51mm x 102mm x 4.8mm with 51mm x 51mm x 4.8mm tube in the middle aluminum rectangular tube (sign framing) all connections to be welded

12mm thick PVC panel (LED support) always maintain 5mm min gap between PVC and sign framing

51mm x 51mm x 4.8mm aluminum rectangular tube (PVC panel support) spaced 750mm o.c. max.

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

2 x 51mm x 127mm x 4.8mm aluminum rectangular tube (sign framing) all connections to be welded

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

640mm x 254mm x 12mm aluminum plate fill with 35 MPa non-shrink grout (typ)

19mm s/s anchor bolts with washers and leveling nut (typ)

install insect screen on all four sides of concrete base) if sign located in paved area provide expansion joint (typ)

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

US LED PSA-12-60 (LED120A0012V50F) or equivalent power supply

install insect screen on all four sides of concrete base (if sign located in paved area provide expansion joint (typ)

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.
6.4mm alu. sign panel with 6.4 mm thick spacers (to make up for acrylic glass thickness) mechanically fastened to internal framing.

12mm thick PVC (LED support)

6.4mm non-glare clear acrylic panel on front and back

19mm s/s anchor bolts with washers and leveling nut (typ)

fill with 35 MPa non-shrink grout (typ)

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.
3.2 mm thick aluminum rain cap mechanically fastened to sign structure. Ensure watertight connection.

2 x 51mm x 102mm x 4.8mm with 51mm x 51mm x 4.8mm in the middle. Aluminum rectangular tubes (sign framing)
- all connections to be welded
6.4mm thick aluminum spacer (as required)

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

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

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.

---

**Section A Scale 1:5**

- 6.4mm thick aluminum sign panel
- 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.
- Outline of acrylic push through panel
- 19mm thick clear acrylic w/ applied vinyl on back and front faces

---

**Panel Elevation Scale 1:5**

- Interior side
- Exterior side

---

**Project:** Campus Wayfinding
**Number:** FM 09-8567
**Issue Date:** Jan 31, 2012
**Sign:** Sign No. 9 - Major Directional
**Sheet Name:** Sign construction - push thru pictogram
**Scale:** As noted
**Sheet Number:** 08

---

**University of Victoria**
GENERAL NOTES
1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan
2. Fasteners:
   a. Foundation (anchor bolts):
      - bolts: Fastenal part #47349 (3/4" s/s threaded)
      - washers: Fastenal part #70122 (3/4" s/s washers)
      - nuts: Fastenal part #70717 (3/4" s/s nuts)
   b. Security screws:
      - panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)
3. Wherever 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. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan
2. Fasteners:
   a. Foundation (anchor bolts):
      - bolts: Fastenal part #47349 (3/4" s/s threaded)
      - washers: Fastenal part #70122 (3/4" s/s washers)
      - nuts: Fastenal part #70717 (3/4" s/s nuts)
   b. Security screws:
      - panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)
3. Wherever 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 (cont)
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. Welding operators and procedures shall be qualified according to CSA W47.2.
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. 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.
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.
6. Anchor bolts to be secured with “Pentagon” tamper resistant bolts, with “Pentagon” nuts as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.

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 2#8 +GND conductors in 27mm PVC conduit from sign to existing campus exterior lighting pole standard. Intersect 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.
Sign No. 10
Pedestrian - Intermediate Directional

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core colours

- clear anodized coating
- PANTONE 185 C pinstrip, arrows
- PANTONE 426 C text
- PANTONE 7541 C background, UVic Logo
- gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefgijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

arrow style and arrow size in relation to text height

University of Victoria Logo

project: Campus Wayfinding
number: FM 09-8567
issue date: January 31, 2012

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

scale: as noted

sheet number: 02
Sign No. 10 - Intermediate Directional
sign design - overview
as noted
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.
6.4mm alu. plate (sign panel)  
mechanically fastened to internal framing

853mm x 204mm x 12.5 mm  
aluminum plate

12.5 mm s/s anchor bolts  
with leveling nut (typ)

2 - 10M cont.  
sign panels to extend 5 mm below framing

10M @ 250mm o.c.

5-15M @ 200mm o.c.

2-15M cont.

grade

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)

6.4mm alu. 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.

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

project:  
Campus Wayfinding

number:  
FM 09-8567

issue date:  
January 31, 2012

sign:  
Sign No. 10 - Intermediate Directional

sheet name:  
sign construction - sections

scale:  
as noted

sheet number:  
05
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

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

section detail 1 scale 1:2

plan detail 2 scale 1:2

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 #474066 (1/2" s/s threaded rod)
     - washers: Fastenal part #71021 (1/2" s/s washers)
     - nuts: Fastenal part #70714 (1/2" s/s nuts)
   - panels:
     - security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)
   - Threadlocker: Locktite 271 Red

3. Threadlock: Locktite 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 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. The use of these drawings is limited to that indicated in the revisions column.
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. 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.

DRAWSING
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, Iw=1.0-ULS, 0.75-SLS.

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.
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.

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.

DRAWING
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DESIGN
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2. The following wind loads and factors were used: q50=0.63kPa, Iw=1.0-ULS, 0.75-SLS.

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3. The work to be reviewed shall be generally complete.
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Sign No. 11
Pedestrian - Street Blade
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
**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)

3.2mm thick aluminum rain cap
w/ clear anodized finish, welded to post (typ)
6.4mm aluminum plate - sign blade (typ)
supplier to machine bracket upper slot to fit blade
(if using 15-CB2400 bracket by Dyna)
blade fastened mechanically to post with
min. two 12 mm dia. tamper resistant s/s bolts (typ)
aluminum sign bracket
15-CB2400 by Dyna or equivalent (typ)
bracket to receive clear anodized finish

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

NOTES:
1) number, orientation and configuration
of blades varies - refer to sign message schedule
confirm with University of Victoria
2) maximum number of blades per sign - 8
3) max. number of blades per sign
in one direction - 3

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 #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)
   - thru bolts: Fastenal part #3815 (3/8" s/s x 1" button Socket cap screw)
   - Threadlocker: Locktite 271 Red

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

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.

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. 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. 12

**Pedestrian - Minor Wayfinding A**
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), crest - reversed monochromatic

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full colour

opaque monochromatic

opaque monochromatic reversed

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

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

sheet: 02

sheet number: 02
Sign No. 12 - Minor Wayfinding A

Sign design - overview

as noted
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 6080 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.
aluminum square tube w/ clear anodized finish

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 open at bottom (typ)

base to extend min 50mm above ground

grade

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

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

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

4-19mm s/s anchor bolts

400mm dia. concrete foundation

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

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

4-19mm s/s anchor bolts

fill with 35 MPa non-shrink grout (typ)

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

front view/section scale 1:15

detail 1/06

detail 1/06

detail 2/06

detail 1/06

detail 1/06

detail 1/06

detail 1/06

side view/section scale 1:15

section a scale 1:15

section b/06

section a
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.

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

6.4mm thick aluminum plate (sign panel)

s/s self tapping, tamper resistant screws

6.4 mm thick aluminum rain cap with clear anodized finish

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

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

s/s washer

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

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

38mm dia. hole for bolt installation

s/s washer

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

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

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

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 coating welded to post (typ)

section detail 2 scale 1:2

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

section b (slip base) scale 1:5

General Note:

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

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

University of Victoria

sheet: 06
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 #147486 (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)
   - 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 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: q0=0.83kPa, lw=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. The work to be reviewed shall be generally complete.

4. 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.

CONCRETE AND REINFORCING STEEL


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

3. Portland cement shall be type g4 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.

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 shall 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. 13
Pedestrian - Minor Wayfinding B
clear anodized coating
application: sign structure

PANTONE 185 C
application: pinstrip, arrows

PANTONE 426 C
application: text, crest - monochromatic

PANTONE 7541 C
application: background, crest - reversed monochromatic
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

opaque monochromatic

opaque monochromatic reversed

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

sign: Sign No. 13 - Minor Wayfinding B
sheet name: sign design/graphic design details
scale: as noted

sheet number: 02
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

crest height: 60mm

type size: 150pt
leading: 250pt

optional pictograms - coordinate with University of Victoria

fastener typical location on sign
scale 1:1

typical mounting detail
scale 1:1

plastic expansion anchor - as required

4mm thick rubber gasket

12mm thick PVC spacer

vinyl aluminum panel

s/s tamper resistant fastener appropriate for the mounting surface

wall surface

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

sign: Sign No. 13 - Minor Wayfinding B
sheet name: sign and graphic design, mounting details
scale: as noted

sheet number: 04
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.

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: q50=0.63kPa, Iw=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. 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.
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 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 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.
# Sign No. 14 - Event Sign

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**Project:** Campus Wayfinding  
**Number:** FM 09-8567  
**Issue Date:** Jan 31, 2012  
**Scale:** as noted  

**Revision:**  
**Sheet Name:** title sheet and drawing list  
**Sheet Number:** 01  
**Image:** Shooglenifty and the Mark Atkinson Trio  
**Location:** University Centre  
**Building:** Farquhar Auditorium  

---

**University of Victoria**
**core colours**

- PANTONE 185 C - pinstrip, arrows
- PANTONE 426 C - text
- PANTONE 7541 C - background, UVic Logo
- Grey oak motif - digital file is to be delivered by University of Victoria

**samples of typeface family**

Myriad Pro Semi Bold

\[\text{ABCDEFGHIJKLMNOPQRSTUVWXYZ} \]
\[\text{abcdefgijklmnopqrstuvwxyz} \]
\[1234567890\]

University of Victoria Logo, horizontal standard

**arrow style and arrow size in relation to text height**

![Diagram showing arrow style and size](image)

---

**Project Details**

- **Project:** Campus Wayfinding
- **Sign:** Sign No. 14 - Event Sign
- **Sheet Name:** Sheet 02
- **Scale:** As noted
- **Issue Date:** Jan 31, 2012
- **Sign Design/Graphic Design Details:** As noted

**Sheet Details**

- **Sheet Number:** 02
- **Sign Number:** FM 09-8567
Description
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate - vinyl and overlaminate to be applied on both sides of the panels.
D/S Crezon plywood sandwich board 610 x 915 mm by Proveer 3/16” thick clear Lexan protection panel
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) Message to be printed on changable graphic film by 3M or Avery or paper
Refer to Adobe Photoshop files for detailed sample layout
5mm thick removable Lexan panel

aluminum "Z" clip with paint finish

s/s tamper resistant screw

D/S Crezon plywood panel (by Proveer)

5mm thick removable Lexan panel

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

Lexan insert size 600mm x 600mm

Scale 1:5

Sign Construction

1:5

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

Lexan insert size 600mm x 600mm
Sign No. 15
Minor Pedestrian Map
clear anodized coating
application: sign structure

PANTONE 185 C
application: pinstrip, arrows

PANTONE 426 C
application: text, crest - monochromatic

PANTEONE 7541 C
application: background, crest - reversed monochromatic

gary 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

project: Campus Wayfinding
number: FM 09-8567
issue date: Jan 31, 2012

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

sheet name: University of Victoria

full colour

opaque monochromatic

opaque monochromatic reversed

arrow style and arrow size in relation to text height
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)

400mm dia. concrete foundation 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)

6.4mm aluminum plate (sign panel)

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

226mm 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

top of footing to be flush with adjacent grade if located on pavement and 50mm above in landscaped areas

two ties at top

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

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)
   - 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: Loctite 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

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.

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.

FIELD REVIEW BY STRUCTURAL ENGINEER

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

CONCRETE AND REINFORCING STEEL

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