Sign No. 9
Pedestrian - Major Directional

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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, 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. 9 - Major Directional typography, colours and pictograms as noted
Scale: As noted
Sheet Number: 02
General Note:
Where applicable, provide 6.4mm thick aluminum spacer under aluminum sign panels to make up for acrylic panel thickness see also detail 3/9-07
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. 
Aluminum panel size:
283 mm x 744 mm x 3.2 mm

Type size: 48pt

Pin strip to be 15 mm wide (typ)

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

EQ.

EQ.

6.4 mm thick non-glare clear acrylic panel

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

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. 
19mm thick acrylic push-thru pictogram - see dwg 08 for details. 
Aluminum 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

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. 
Aluminum panel size:
744 mm x 506 mm x 6.4 mm

scale 1:15

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

sign: Sign No. 9 - Major Directional
sheet name: sign design - graphic design details
scale: as noted

sides

front

sheet number: 04

University of Victoria
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.
3.2mm aluminum plate on sides and top

6.4mm acrylic panel physically held in place with wrap-around side panels & overlapping face panels

2 x 51mm x 102mm x 4.8mm aluminum rectangular tubes (sign framing) - all connections to be welded

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

12mm thick PVC (LED panel)

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

35 MPa non-shrink grout (typ)

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

19mm thick acrylic push-thru letters

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

640mm x 254mm x 12mm aluminum plate

fill with 35 MPa non-shrink grout (typ)

100 200 100
250
950
100

10M @ 250mm o.c.

2 - 10M cont.

640mm x 254mm x 12mm aluminum plate

2 x 51mm x 102mm x 4.8mm aluminum rectangular tubes (sign framing) - all connections to be welded

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

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

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.

Detail 1 scale 1:2

- 51mm x 51mm x 4.8mm aluminum square tube beyond (sign framing)
- s/s self tapping, tamper resistant screws (typ)
- 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 aluminum sign panel typical on front and back

Detail 2 scale 1:2

- 6.4mm thick acrylic clear panel, vinyl with digital print and diffusion layer
- US LED PN-3-12-W or equivalent LED support
- 51mm x 51mm x 4.8mm aluminum square tube beyond (sign framing)
- 6 mm dia. s/s thru bolt (typ)
- 12mm thick PVC (LED support)
- 6.4mm thick aluminum spacer beyond as required

Detail 3 scale 1:2

- 6.4mm thick acrylic clear panel, vinyl with digital print and diffusion layer
- 51mm x 51mm x 4.8mm aluminum square tube beyond (sign framing)
- always maintain 20mm shadow depth on perimeter of the acrylic panel
- 6.4mm thick acrylic clear panel, vinyl with digital print and diffusion layer
- 3.2 mm thick aluminum rain cap mechanically fastened to sign structure
- Ensure watertight connection.
- 6.4mm thick aluminum sign panel
- 6.4mm thick acrylic clear panel, vinyl with digital print and diffusion layer
- 6.4 mm thick aluminum retainer
- always maintain 20mm deep shadow

Sign No. 9 - Major Directional sign construction - details as noted

Campus Wayfinding
FM 09-8567
Jan 31, 2012
6.4mm thick aluminum sign panel

19mm thick clear acrylic w/ applied vinyl on back and front faces

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 #47349 (3/4" s/s threaded)
     - washers: Fastenal part #701027 (3/4" s/s washers)
     - nuts: Fastenal part #70717 (3/4" s/s nuts)
   - Security screws panel attachment: Fastenal part #BS016024SSH200 (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. Submit shop drawings for review prior to start of steel fabrication.
7. Fabrication practices and tolerances shall be in accordance with CAN/CSA-S16, except bolt hole edge distance tolerance to be -0, +2mm.
8. Anchor and connection bolts to be ASTM A193 Stainless Steel. Anchors shall be embedded 300mm into concrete, complete with a nut and washer each end.
9. Unless noted otherwise, column base plates shall be 20 mm minimum thick. Anchor bolt holes shall be punched undersize and reamed to size.
10. Provide 6 mm cap plates for all tube members uno.
11. Aluminum shall be connected with fillet welds all-around uno. Weld size shall match the wall thickness of the thinnest part being connected uno. Welds to be ground smooth.

FIELD REVIEW BY STRUCTURAL ENGINEER
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 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. All electrical installations to be done in accordance with the Canadian Electrical Code and as recommended by the LED lighting manufacturer.
3. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400Mpa.
4. Portland cement shall be type gu 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 recomended by the LED lighting manufacturer.
4. The sign manufacturer shall provide an electrical shop drawings indicating input power requirements and a schematic wiring diagram for the sign.