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  
Sign: Sign No. 6 - University House 1  
Sheet Name: title sheet and drawing list  
Scale: as noted  
Sheet Number: 01
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

core colours

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

University of Victoria Logo, horizontal standard

full colur

opaque monochromatic

opaque monochromatic reversed
Sign No. 6 - University House 1

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
Sheet Name: Sign design - overview
Scale: as noted
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
1275

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 w/ washers and leveling nuts (typ) nuts to extend max 10mm above bolt

fill with 35 MPa non-shrink grout (typ)

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

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

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

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
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)

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)

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

section b (slip base) scale 1:5

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)

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)
GENERAL NOTES

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

2. Fasteners:
   - foundation (anchor bolts):
     - bolts: Fastenal part #47406 (1/2" s/s threaded rod)
     - nuts: Fastenal part #70714 (1/2" s/s nuts)
   - posts:
     - thru bolts: Fastenal part #174786 (1/2" s/s 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

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" s/s x 5" button Socket Cap Screw)
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     - rain cap attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)

3. Reinforcing shall conform to CAN/CSA-G30.1 – Grade 400MPa.

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. Tamper resistant "Torx-Pin" screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.

FIELD REVIEW BY STRUCTURAL ENGINEER

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

2. The drawings do not show components that may be necessary for construction safety, which is the responsibility of the contractor.

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

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

5. 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.

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

7. 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.

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

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

10. 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.

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