University of Victoria | Facilities Management

Exterior Wayfinding Signage

Specifications and Details

02/15/23

Sheet List	
Sheet Number	Sheet Name
01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design - overview
04	sign design - graphic design details
05	sign design - graphic design details - cont
06	sign construction - sections
07	sign construction - details
08	general notes

Sign No. 1
Vehicular - Main Gateway

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

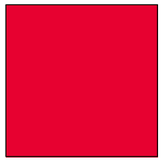
sign: Sign No. 1 - Main Gateway
sheet name: title sheet and drawing list
scale: as noted

sheet number: 01

University of Victoria

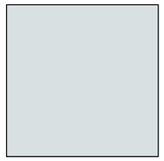
core colours

clear anodized coating
application: sign structure



PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic



PANTEONE 7541 C
application: background

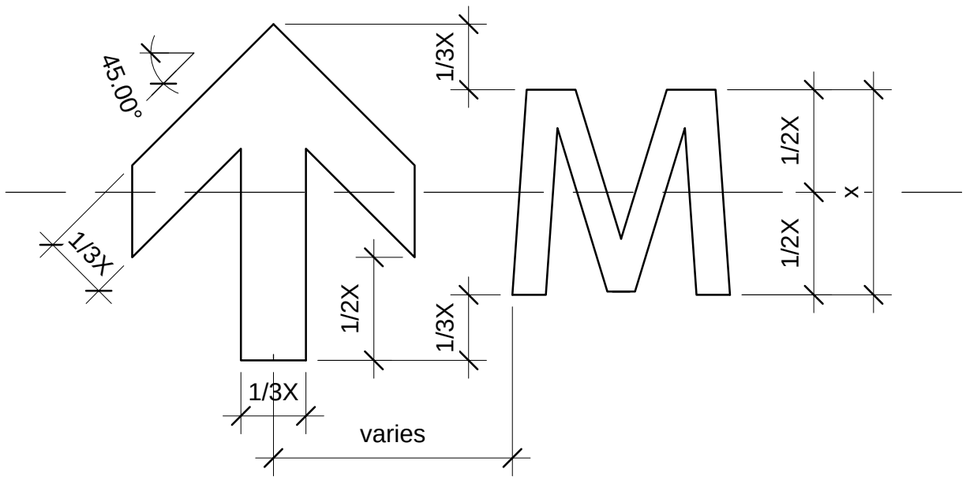
gary oak motif - digital file is to be delivered
by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



University of Victoria Logo, horizontal standard

full colour

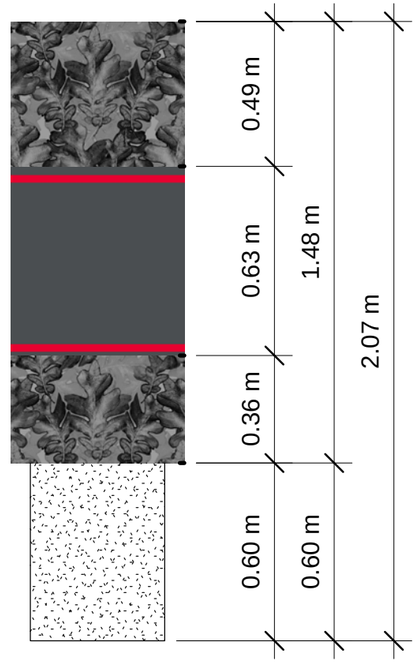
reverse monochromatic - shown against background for clarity

project:	Campus Wayfinding	sign:	Sign No. 1 - Main Gateway	sheet number:	02
number:	-	sheet name:	typography, colours and pictograms		
issue date:	April 1, 2019	scale:	as noted		

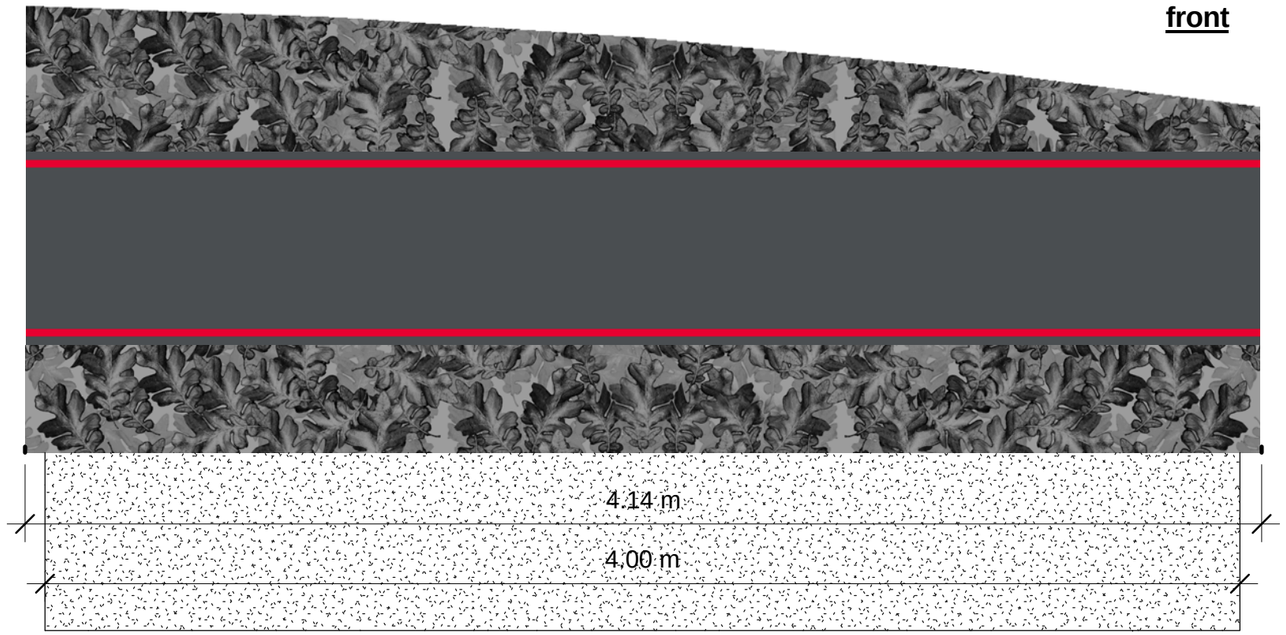
University of Victoria

side

front



side



back

gateway sign scale 1:20

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

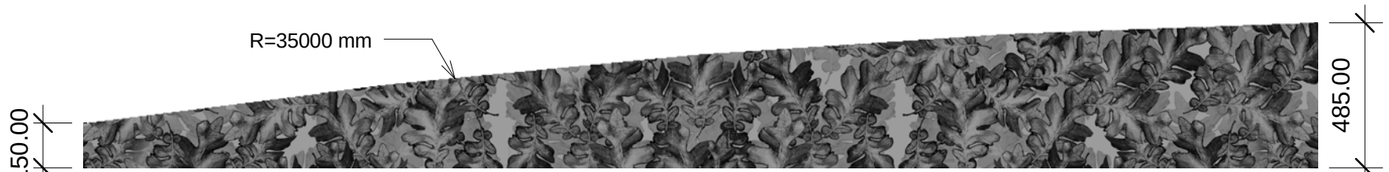
sign:	Sign No. 1 - Main Gateway
sheet name:	sign design - overview
scale:	as noted

sheet number: 03

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

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



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

(front - main) Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate, with push-thru acrylic pictograms.
Aluminum panel size: 4130mm x 650mm x 6.4mm

(front - bottom) 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

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 festened to substrate.
5) Manufacturer to confirm all dimensions prior to fabrication.
6) Manufacturer to ensure watertightness of panel conenctions.

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

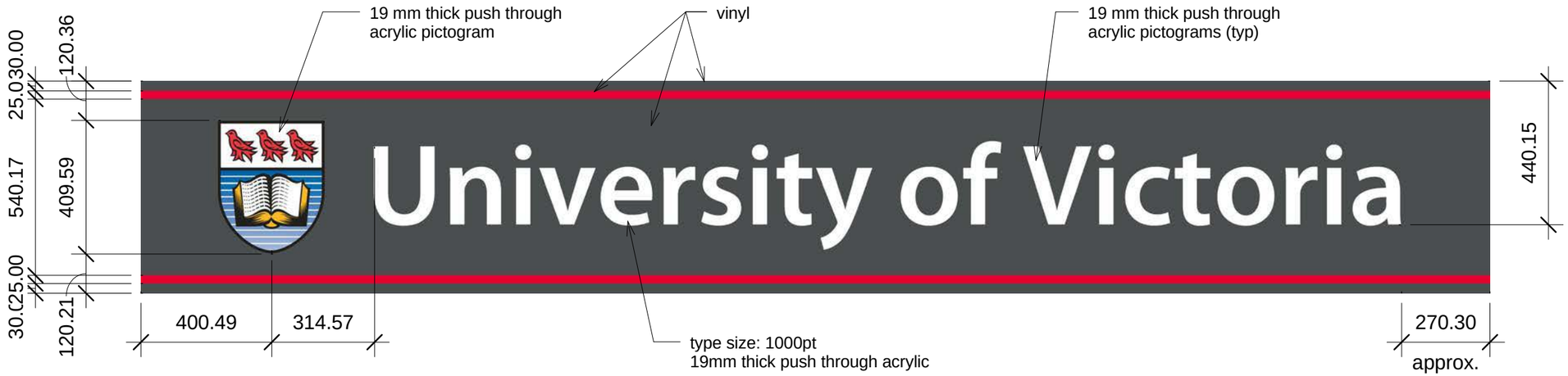
scale 1:20

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

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

sheet number: 04

University of Victoria



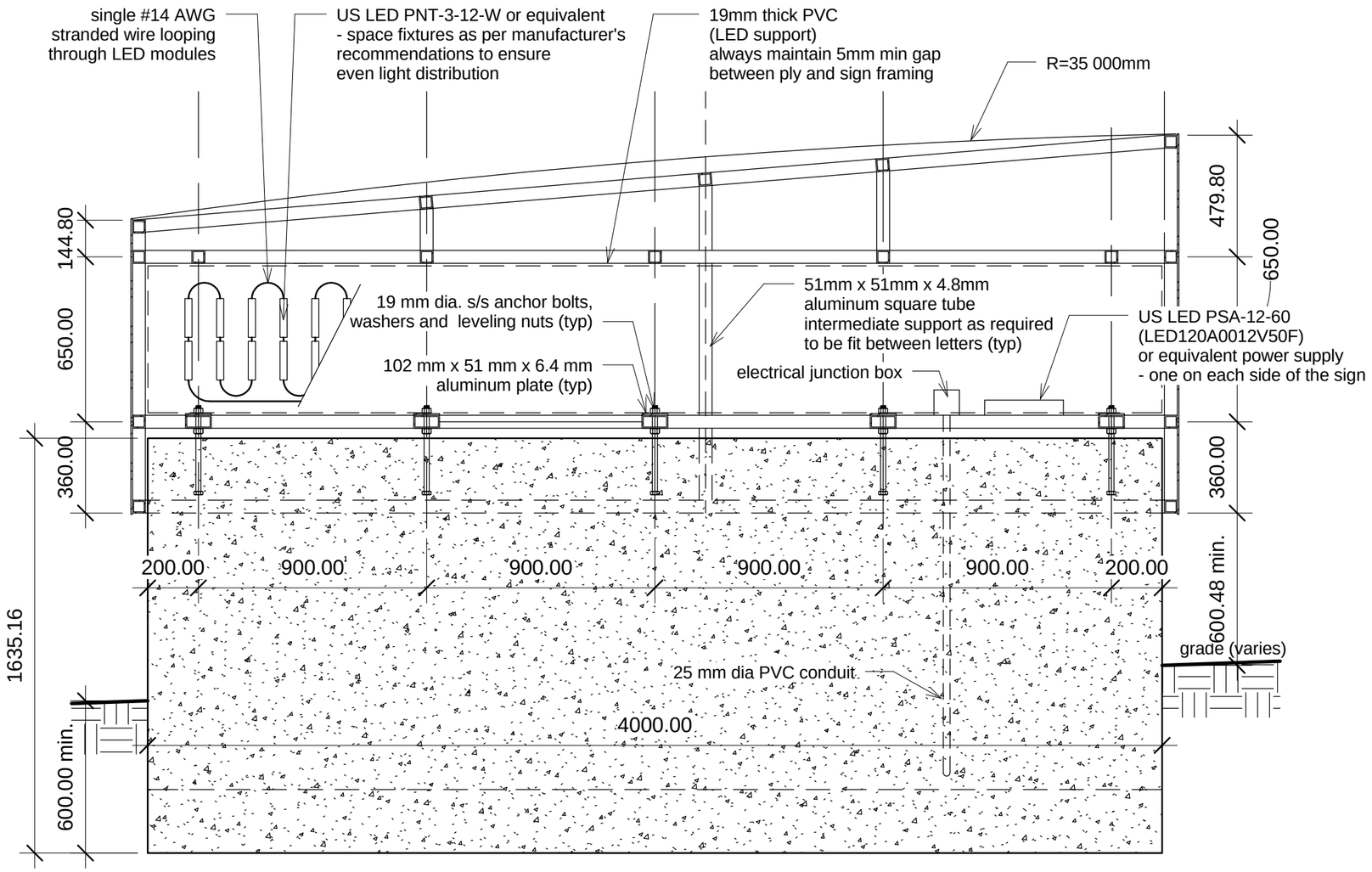
front panel with push thrugh pictograms
scale 1:15

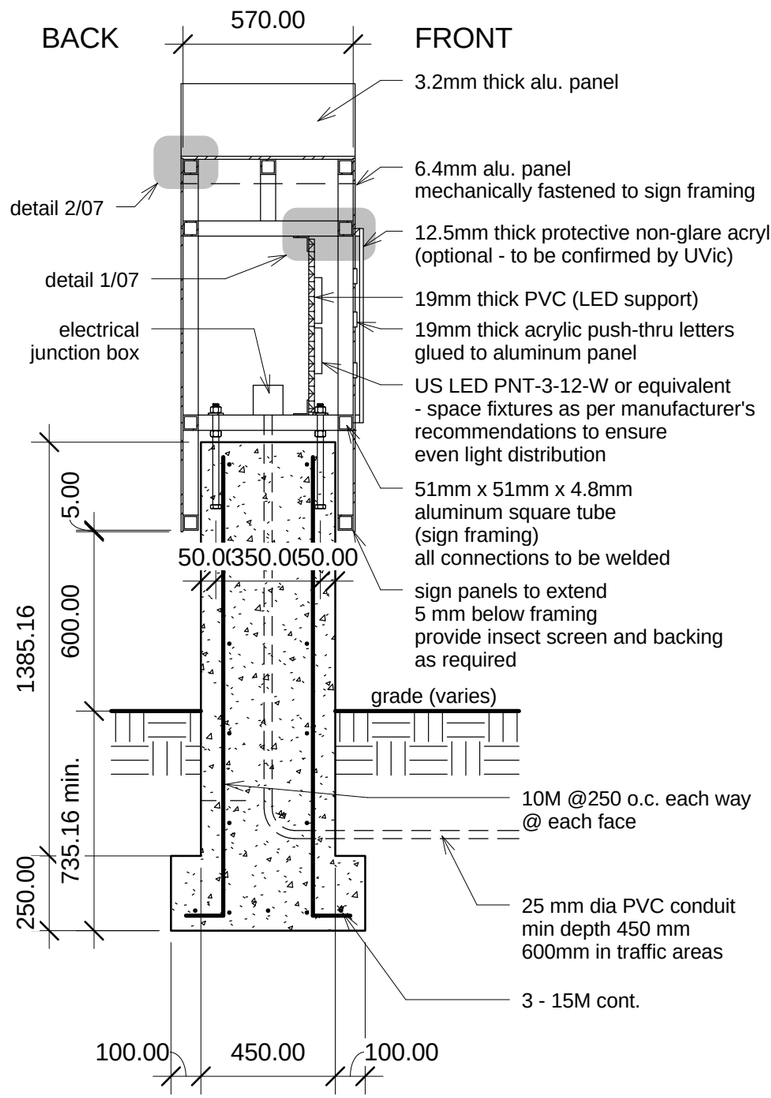
project:	Campus Wayfinding
number:	-
issue date:	April 1, 2019

sign:	Sign No. 1 - Main Gateway
sheet name:	sign design - graphic design details - cont
scale:	as noted

sheet number: 05

University of Victoria





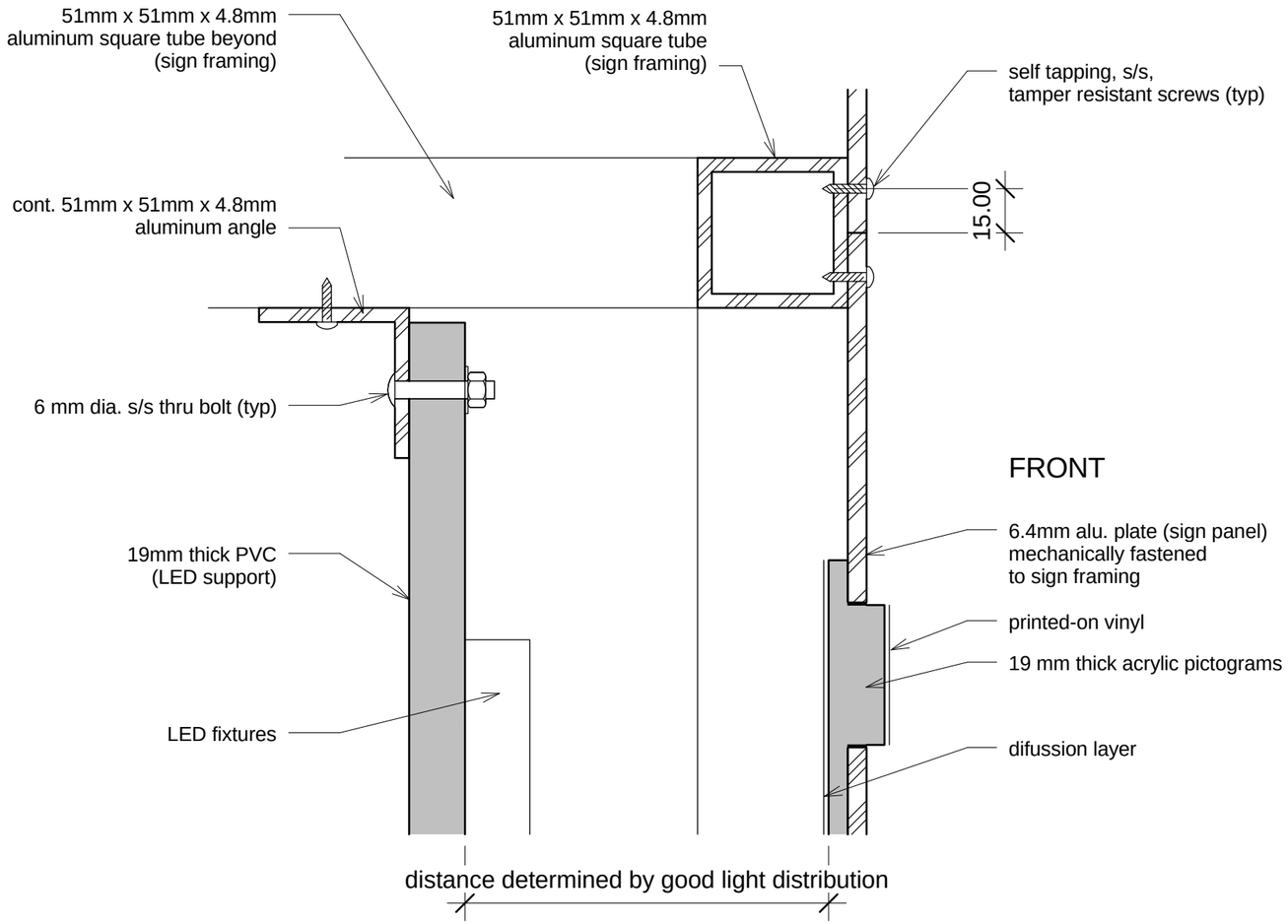
General Notes:
1) provide ventilation holes as required
2) US LED PSA-12-60 power supply to provide ource of power to a max.
of 50 MegaBright 12 LED Modules
3) Sign must have a CSA label as an assembly
4. Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies
should be reported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

long section scale 1:20

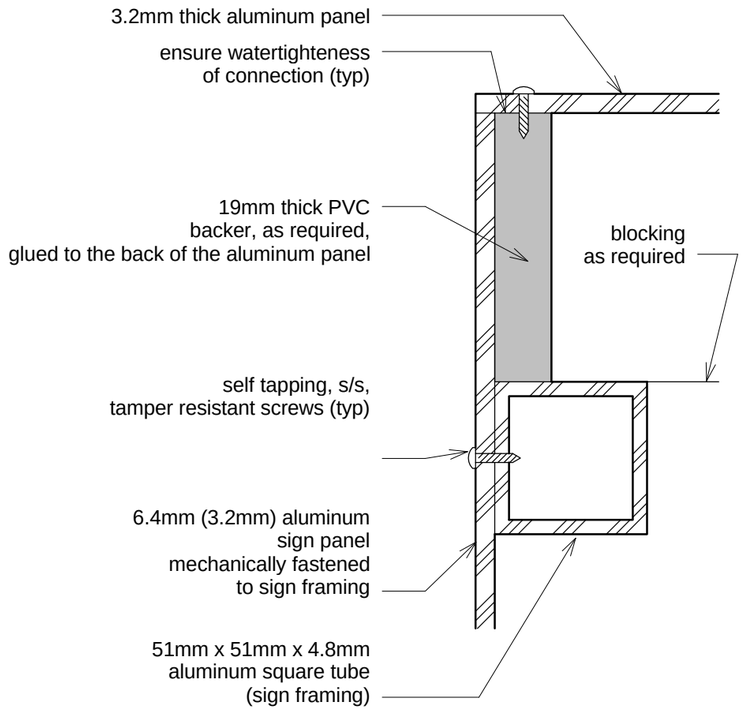
cross section scale 1:20

project:	Campus Wayfinding
number:	-
issue date:	April 1, 2019
sign:	Sign No. 1 - Main Gateway
sheet name:	sign construction - sections
scale:	as noted
sheet number:	06

University of Victoria



detail 1 scale 1:2



detail No. 2 scale 1:2

General Notes:
1) provide ventilation holes as required
2) US LED PSA-12-60 power supply to provide ource 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.

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

sign: Sign No. 1 - Main Gateway
sheet name: sign construction - details
scale: as noted

sheet number: 07

University of Victoria

GENERAL NOTES

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

STRUCTURAL NOTES

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
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and referenced documents.
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 NOTES (cont)

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.

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 reccomended 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.
4. The sign manufacturer shall provide an electrical shop drawings indicating input power requirements and a schematic wiring diagram for the sign.

Sheet List	
Sheet Number	Sheet Name

01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design - overview
04	sign design - graphic design details
05	sign construction - sections
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07	general notes

Sign No. 2A
Vehicular - Parking Lot

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

sign: Sign No. 2A - Parking Lot
sheet name: title sheet and drawing list
scale: as noted

sheet number: 01

University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic

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

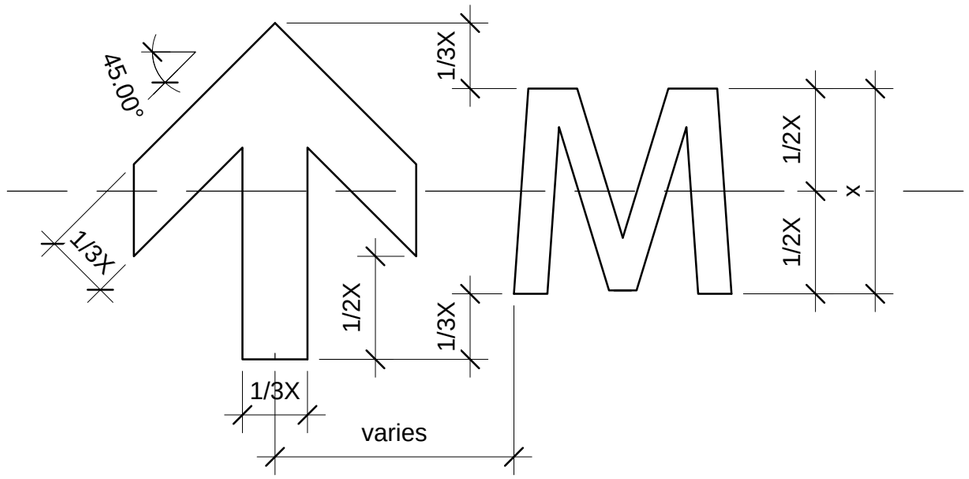
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



University of Victoria Logo, horizontal standard

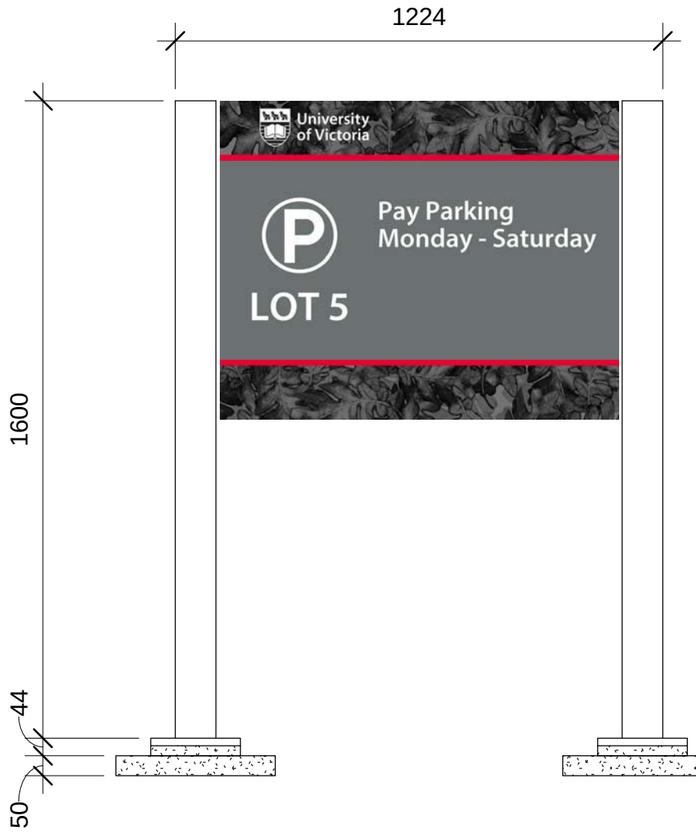
University of Victoria

University of Victoria

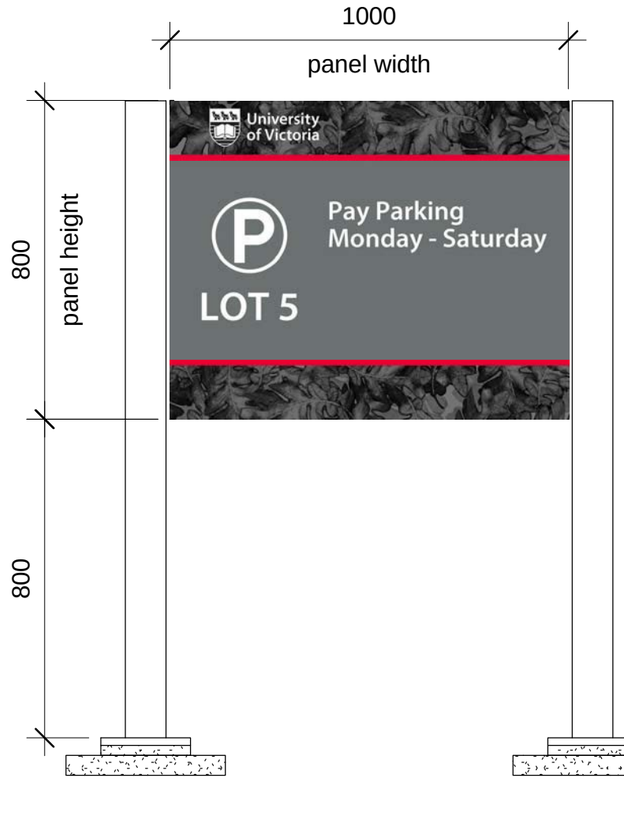
full colour

reverse monochromatic - shown against bacgroud for clarity

project:	Campus Wayfinding	sign:	Sign No. 2A - Parking Lot	sheet number:	02	University of Victoria
number:	-	sheet name:	typography, colours and pictograms			
issue date:	April 1, 2019	scale:	as noted			



Parking Lot A
scale 1:15



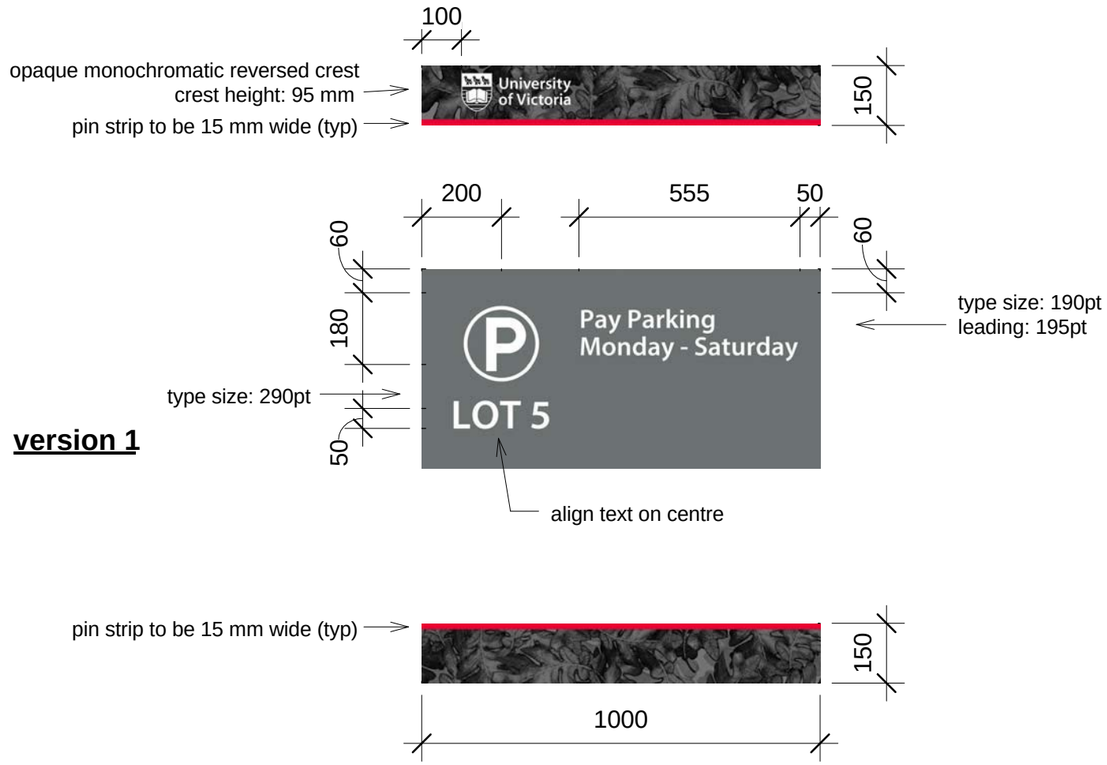
Parking Lot A
scale 1:15

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

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

sheet number: 03

University of Victoria



version 1

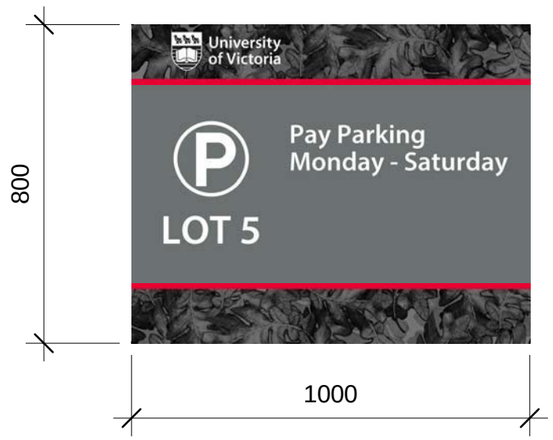
scale 1:15

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

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

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

Refer to Adobe Photoshop files for detailed sample layout



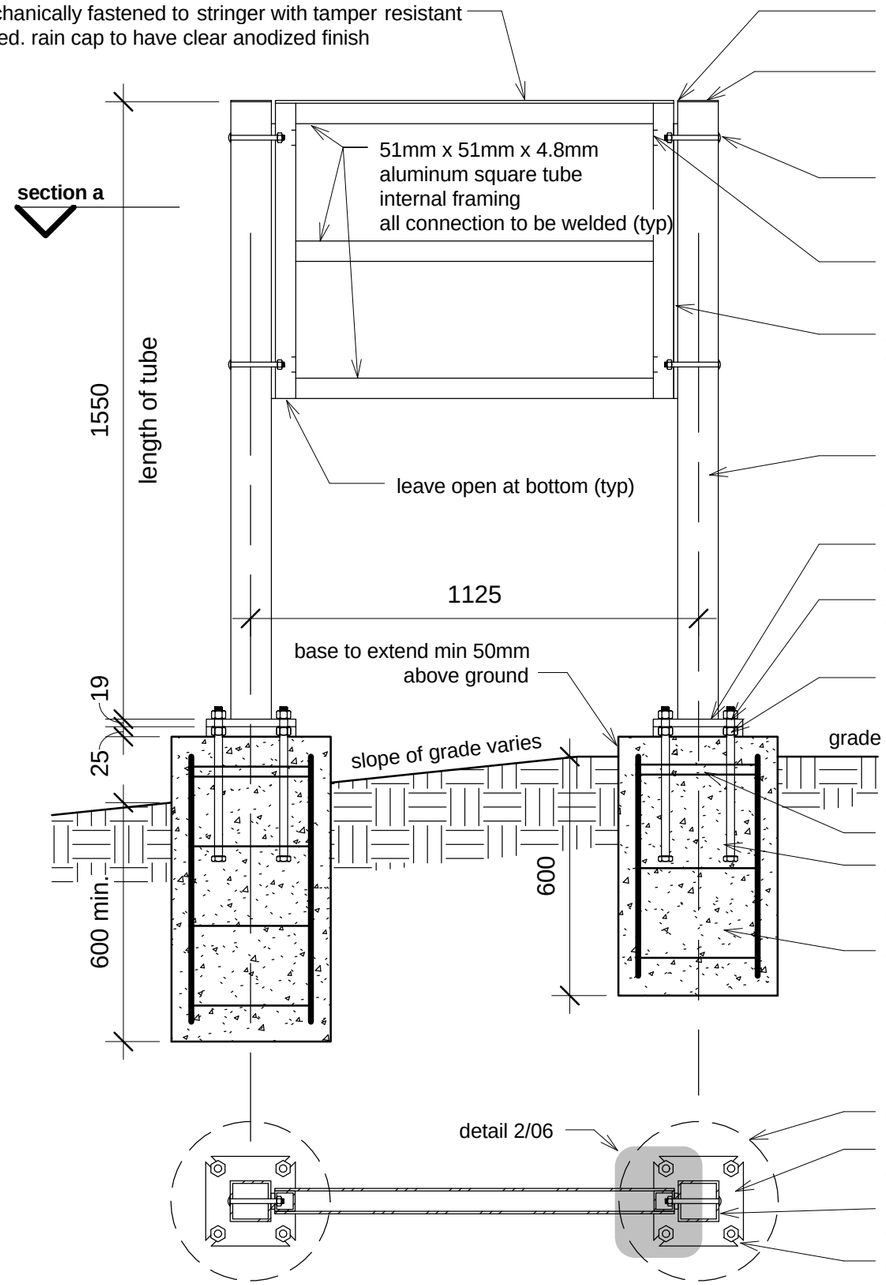
scale 1:15

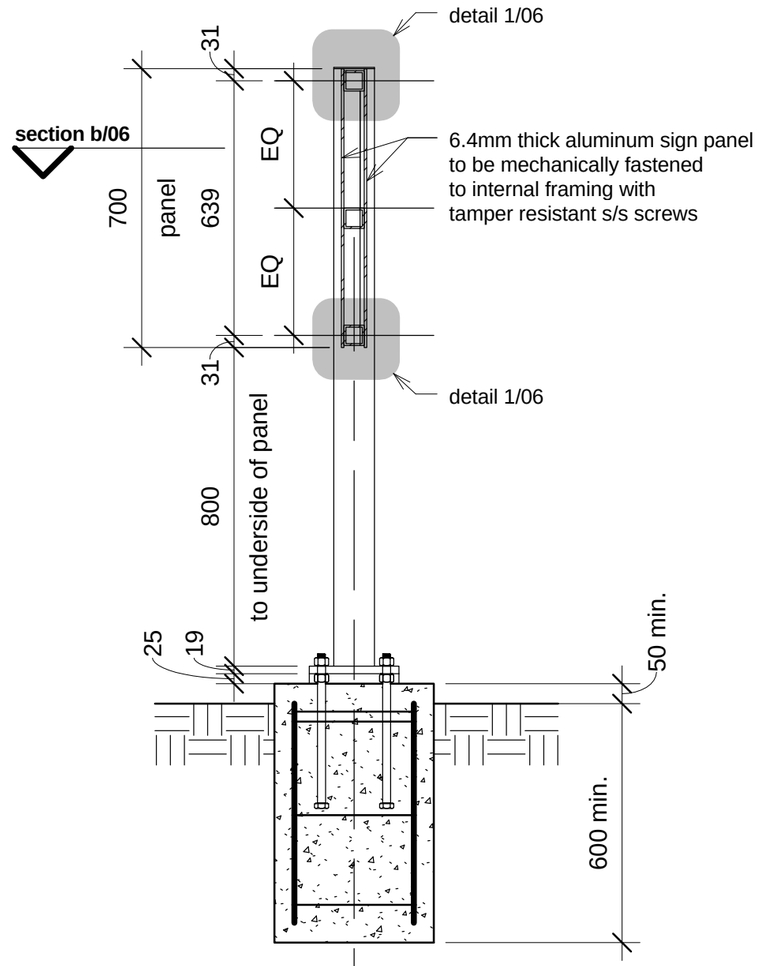
project: Campus Wayfinding
number: -
issue date: April 1, 2019

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

sheet number: 04

University of Victoria

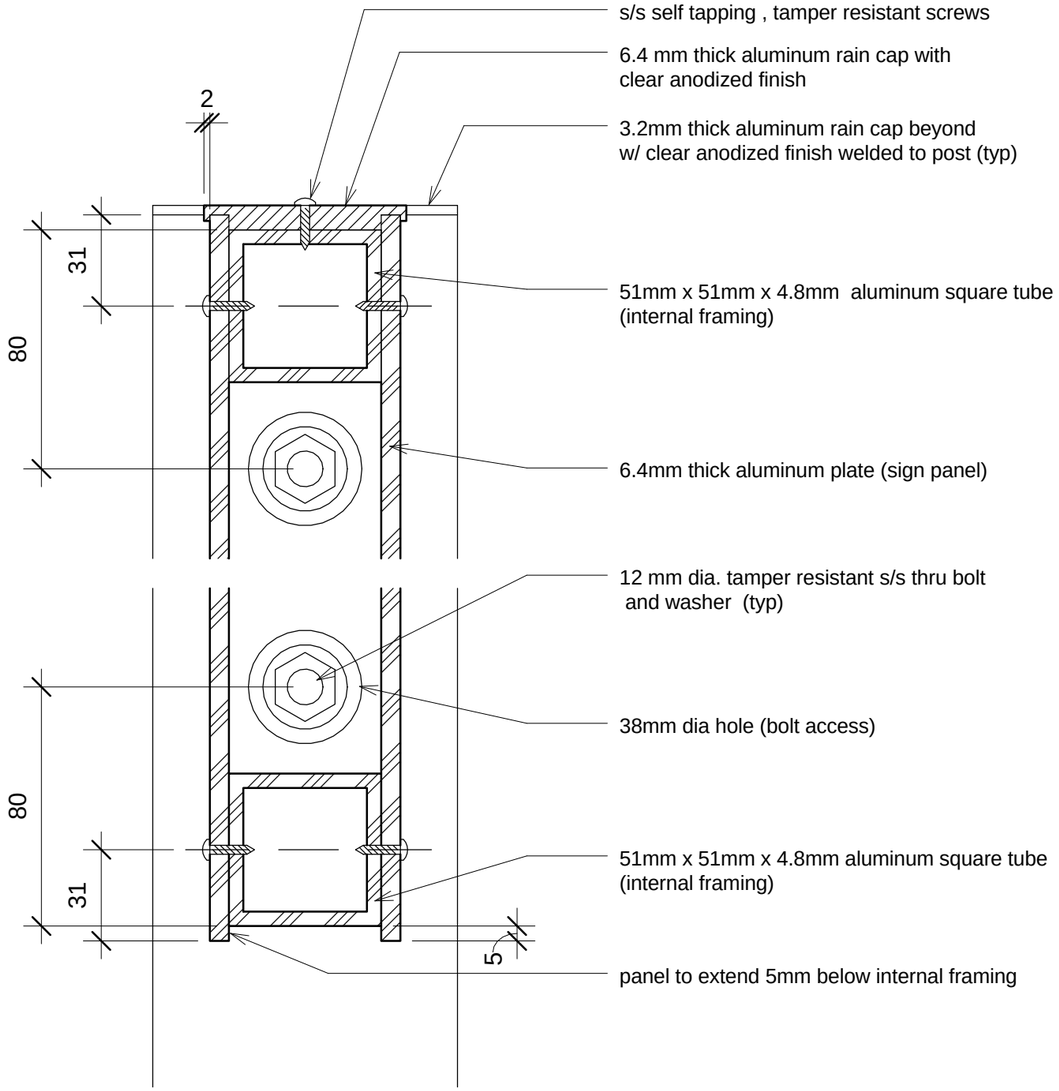




General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.

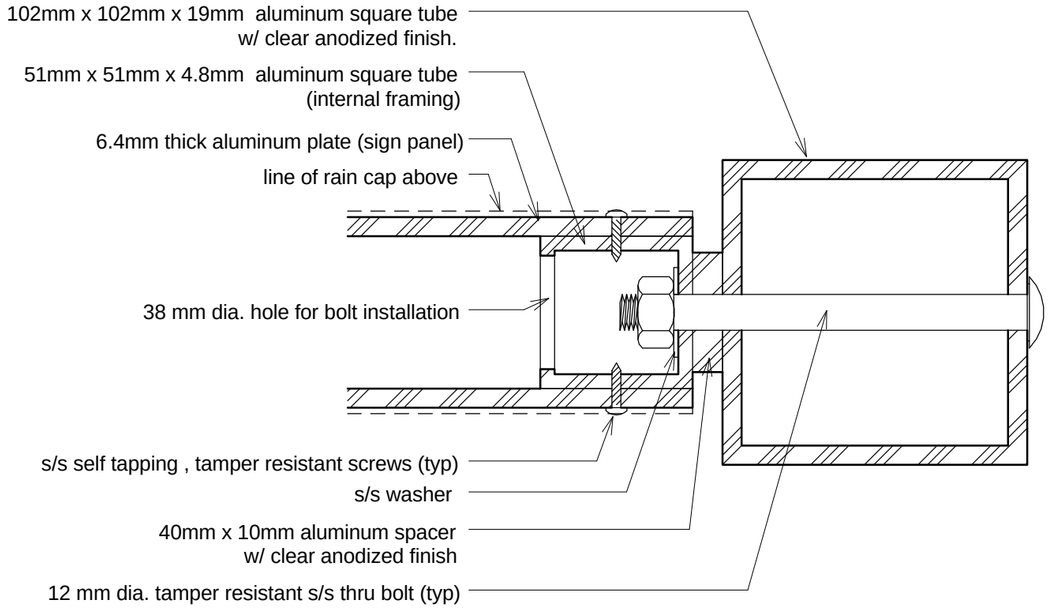
project:	Campus Wayfinding	sign:	Sign No. 2A - Parking Lot	sheet number:	05
number:	-	sheet name:	sign construction - sections		
issue date:	April 1, 2019	scale:	as noted		

University of Victoria

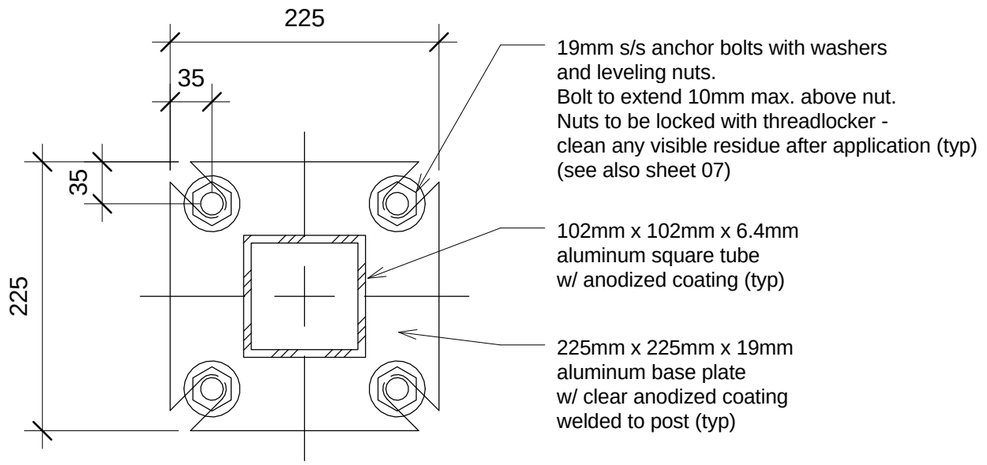


General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.

section detail 1 scale 1:2



section detail 2 scale 1:2



section b (slip base) scale 1:5

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

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

sheet number: 06

University of Victoria

GENERAL NOTES

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

STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and
referenced documents.
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 0.40and 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 tobe 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.

Sheet List	
Sheet Number	Sheet Name
01	title sheet and drawing list
02	typography, colours and pictograms
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Sign No. 2C
Vehicular - Parking Lot

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

sign: Sign No. 2C - Parking Lot
sheet name: title sheet and drawing list
scale: as noted

sheet number: 01

University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic

PANTONE 424 C
application: background

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

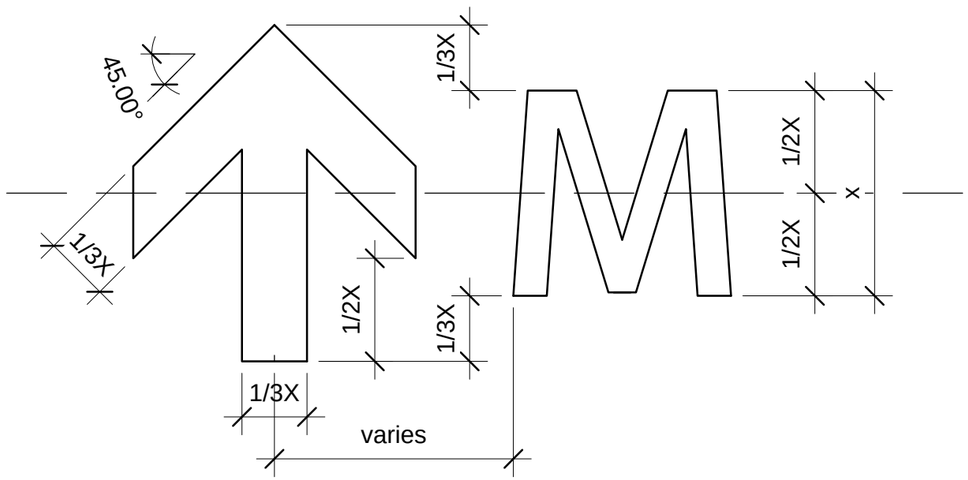
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



University of Victoria Logo, horizontal standard

University of Victoria

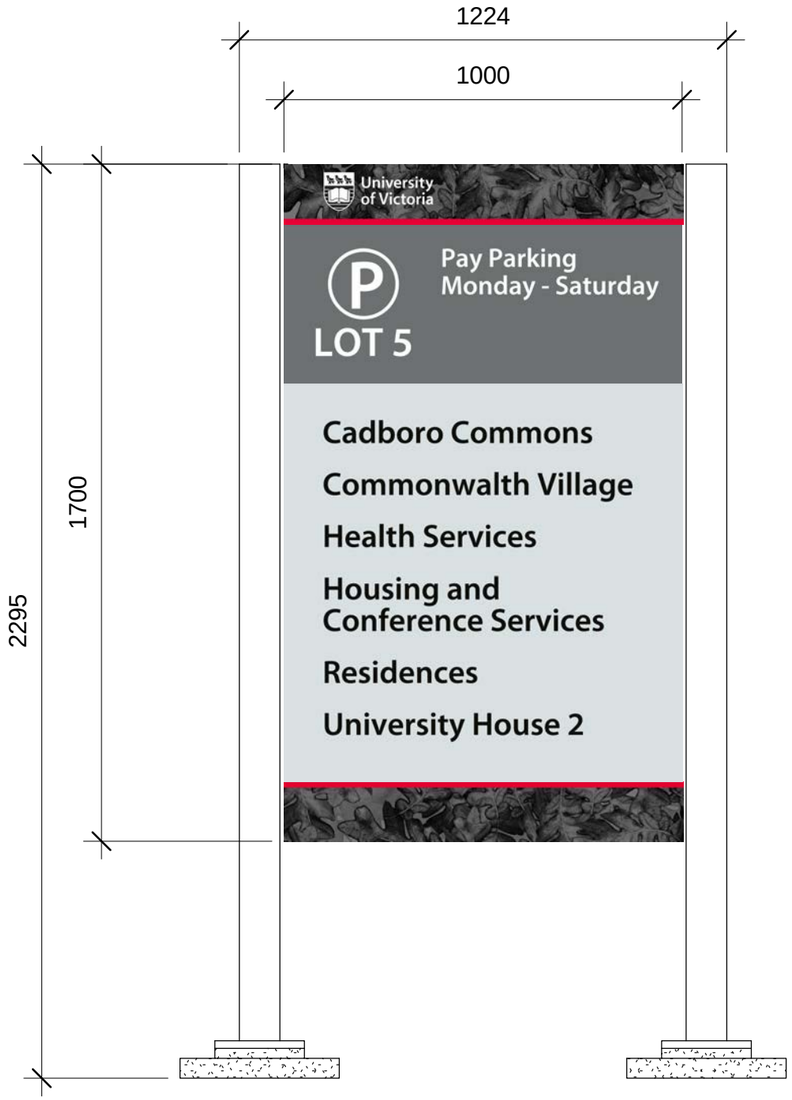
University of Victoria

full colur

reverse monochromatic - shown against bacgroud for clarity

project:	Campus Wayfinding	sign:	Sign No. 2C - Parking Lot	sheet number:	02
number:	-	sheet name:	typography, colours and pictograms		
issue date:	April 1, 2019	scale:	as noted		

University of Victoria



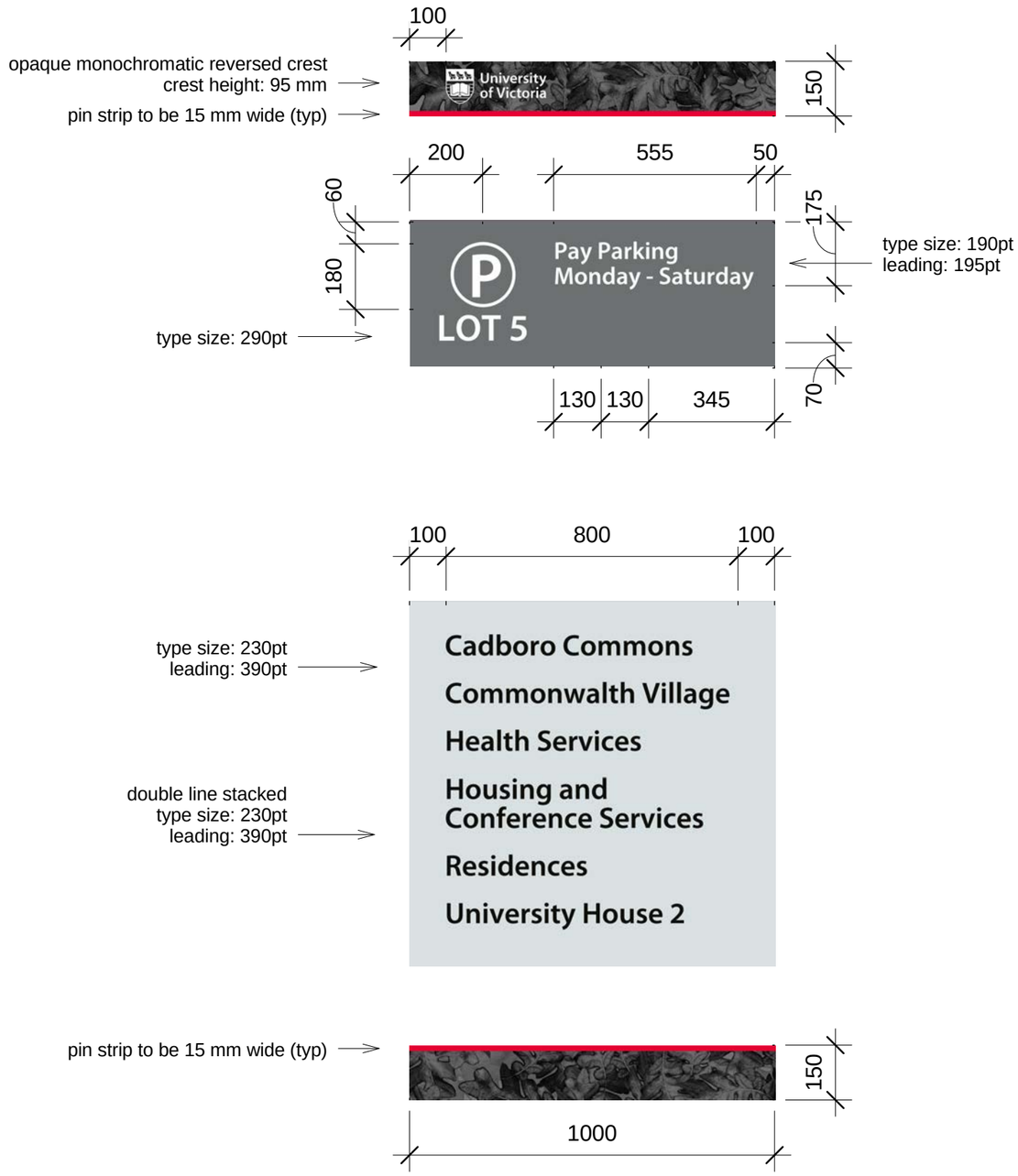
Parking Lot C
scale 1:15

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

sign: Sign No. 2C - Parking Lot
sheet name: sign design - overview
scale: as noted

sheet number: 03

University of Victoria



scale 1:15

Description
Digitally printed vinyl protected with
anti-graffiti, optically clear overlaminate
Aluminum panel size (one piece): 1050 mm x 750 mm x 6.4 mm
See sheet 05 for details.

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

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

Refer to Adobe Photoshop files for detailed sample layout

scale 1:15

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

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

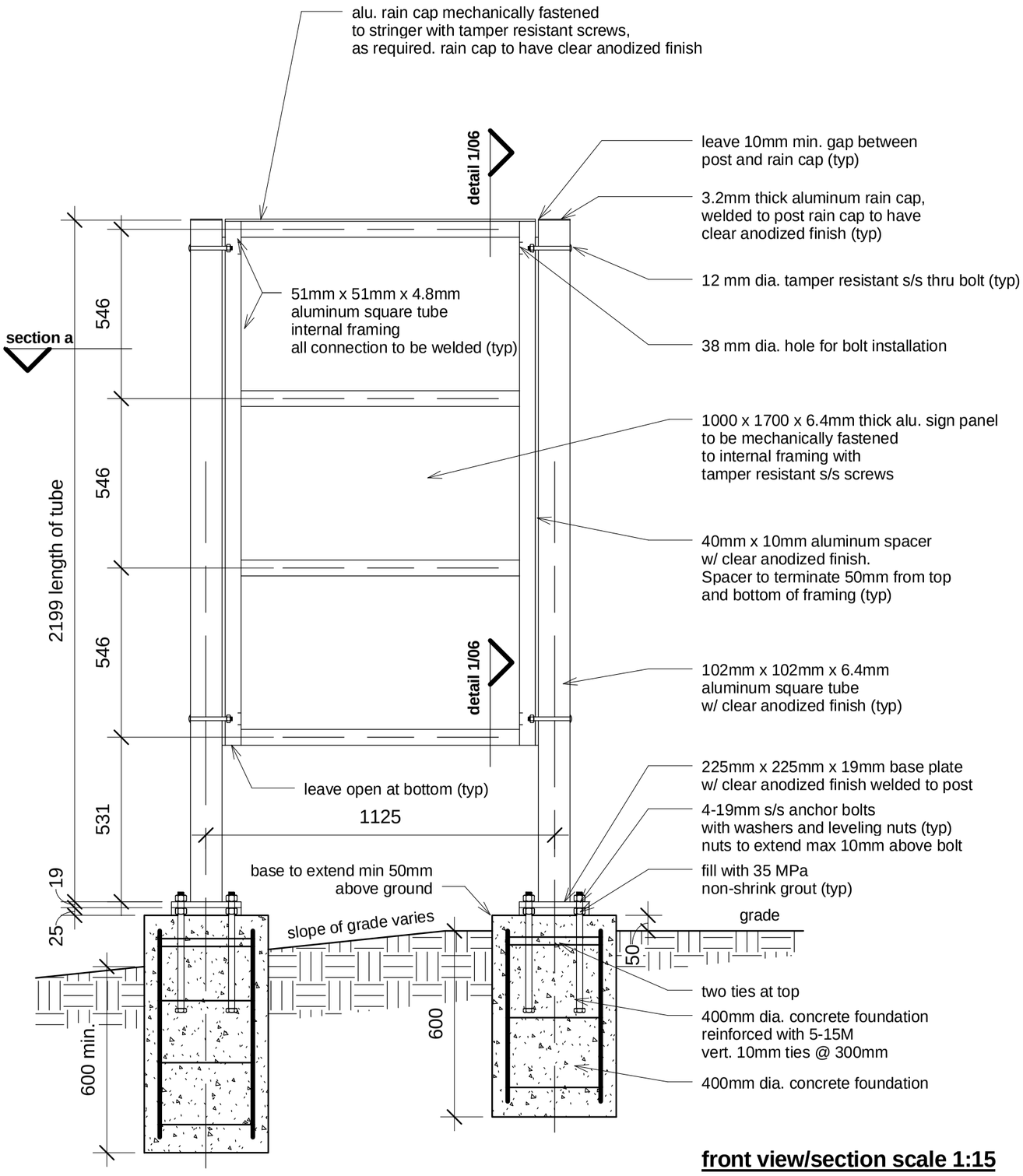
sheet number: 04

University of Victoria

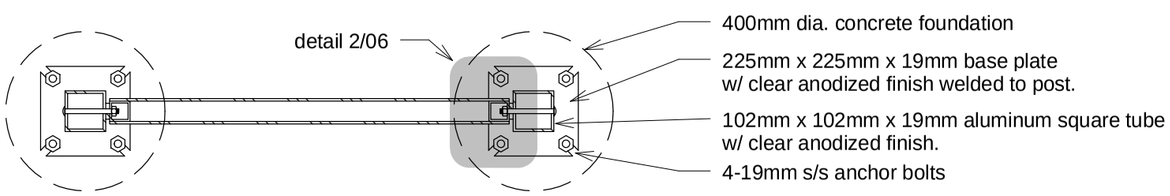
project: Campus Wayfinding
number: -
issue date: April 1, 2019

sign: Sign No. 2C - Parking Lot
sheet name: sign construction - sections
scale: as noted

sheet number: 05



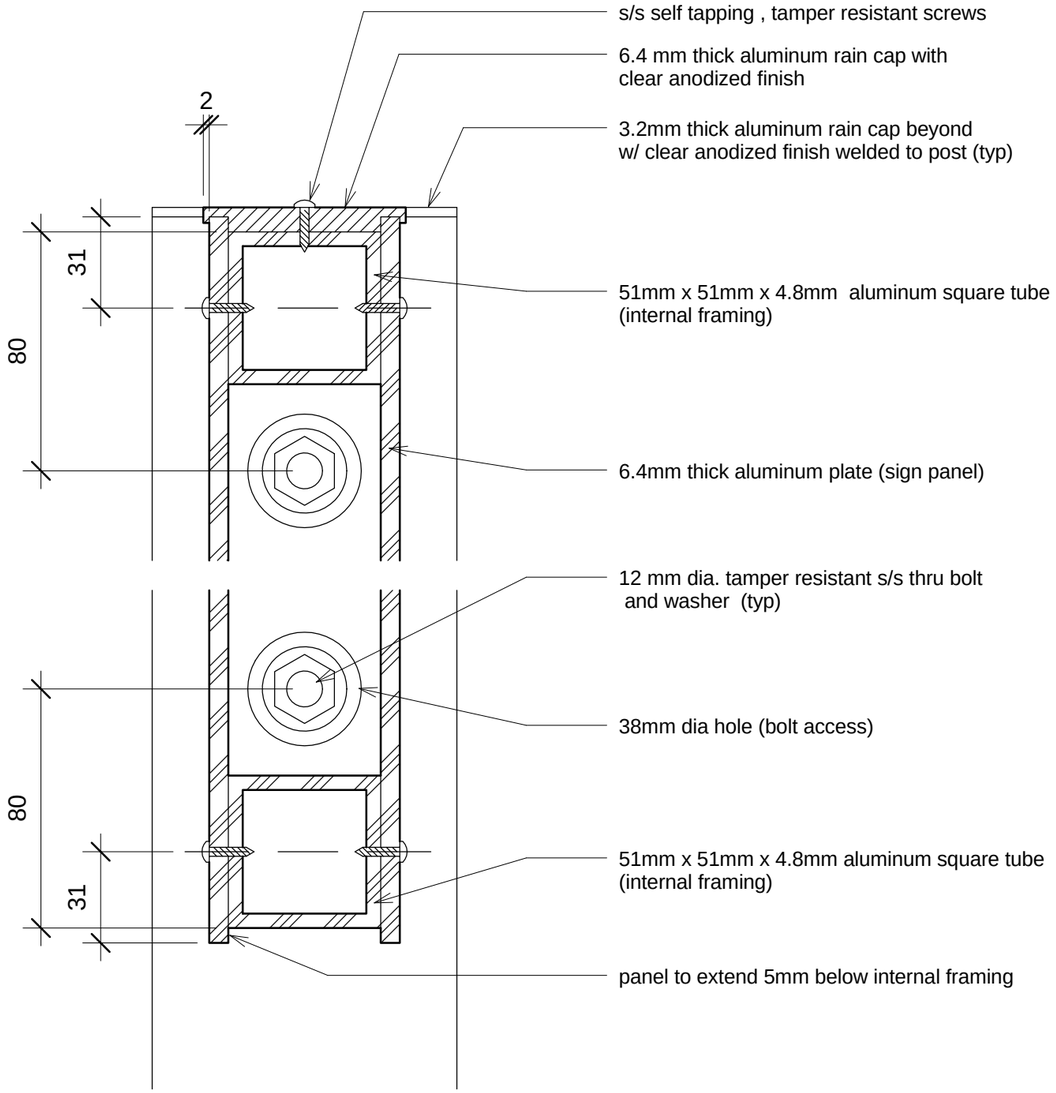
front view/section scale 1:15



section a scale 1:15

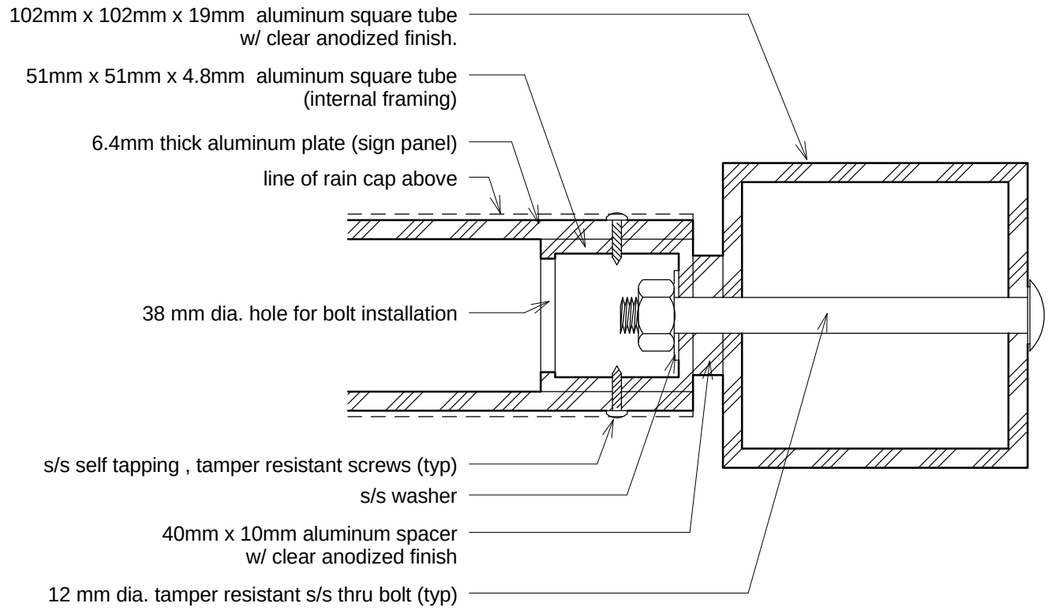
General Note:
Manufacturer to verify all diemnsions
prior to sign fabrication. All discrepancies
should be reported to the Architect.

University of Victoria

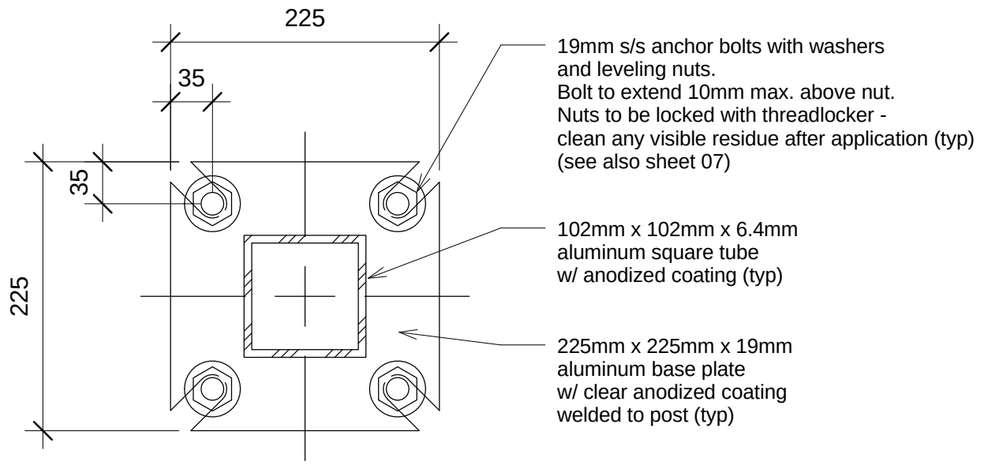


General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.

section detail 1 scale 1:2



section detail 2 scale 1:2



section b (slip base) scale 1:5

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

sign: Sign No. 2C - Parking Lot
sheet name: sign construction - details
scale: as noted

sheet number: 06

University of Victoria

GENERAL NOTES

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

STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and
referenced documents.
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class
C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate
size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of
concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

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

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

sign: Sign No. 2C - Parking Lot
sheet name: general notes
scale: as noted

sheet number: 07

University of Victoria

Sheet List	
Sheet Number	Sheet Name

01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design - overview
04	sign design - graphic design details
05	sign construction - sections
06	sign construction - details
07	general notes

Sign No. 3A
Vehicular - Building Identification

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

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

sheet number: 01

University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic

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

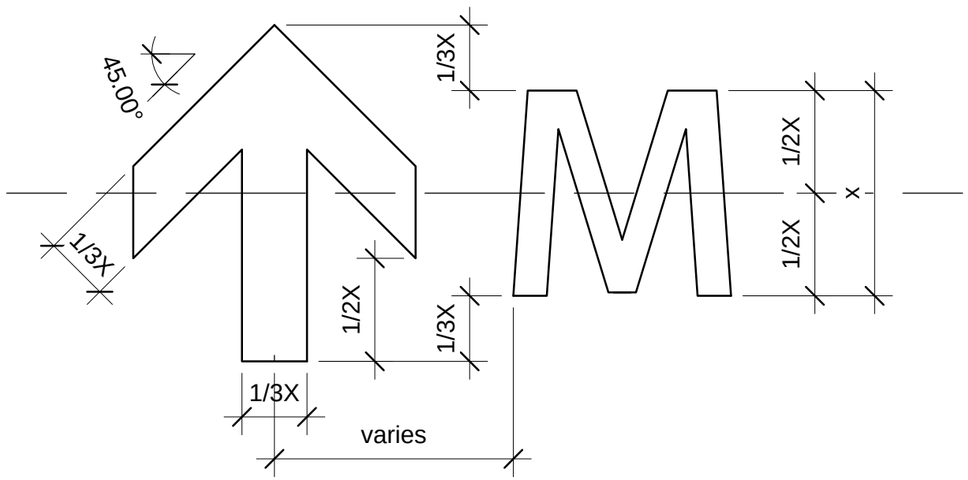
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



University of Victoria Logo, horizontal standard

University of Victoria

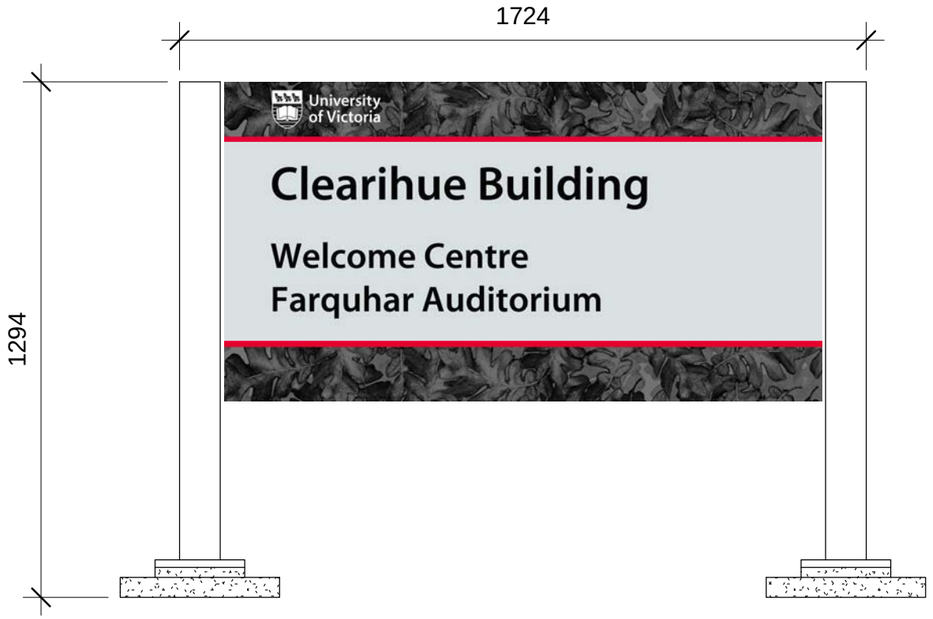
University of Victoria

full colur

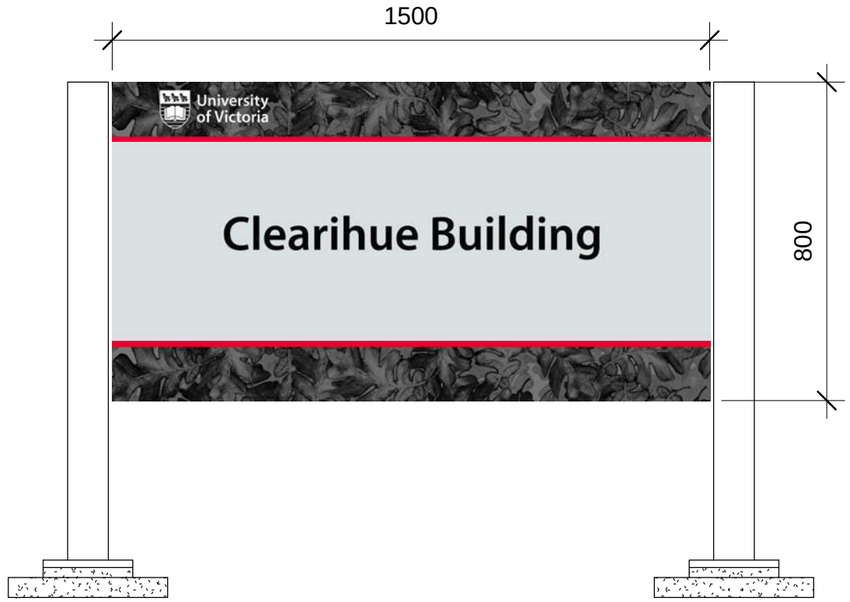
reverse monochromatic - shown against background for clarity

project:	Campus Wayfinding	sign:	Sign No. 3A - Building Identification	sheet number:	02
number:	-	sheet name:	typography, colours and pictograms		
issue date:	April 1, 2019	scale:	as noted		

University of Victoria

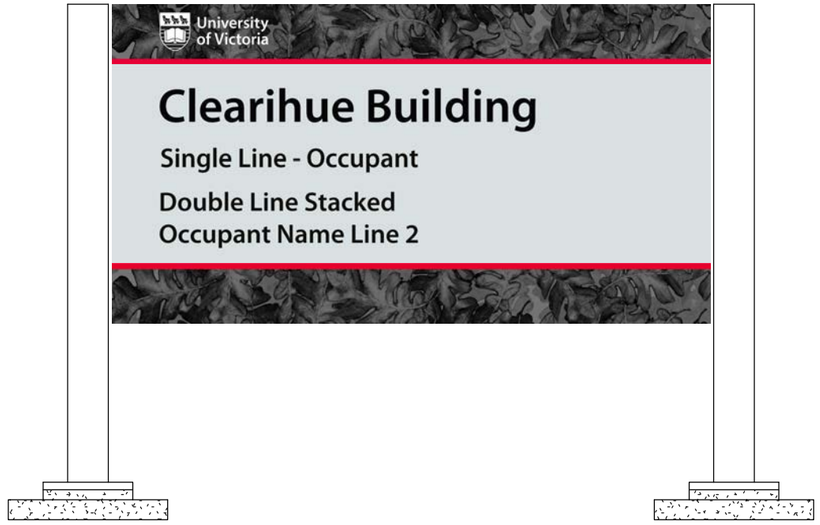


building name with occupant names
scale 1:15



building name, text in one line
scale 1:15

building name, text in two lines
scale 1:15



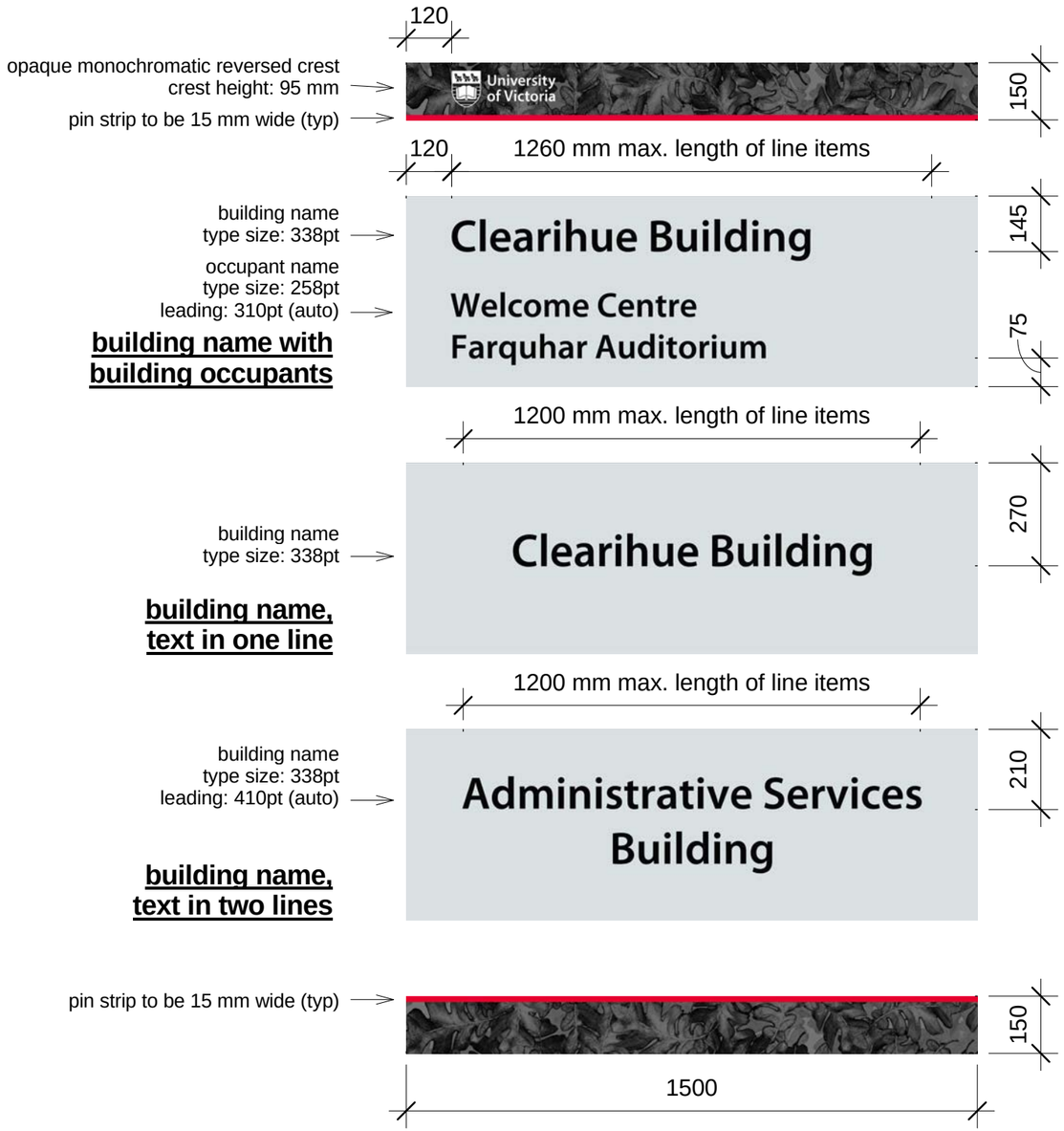
building name, text in two lines (double line stacked)
scale 1:15

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

sign: Sign No. 3A - Building Identification
sheet name: sign design - overview
scale: as noted

sheet number: 03

University of Victoria



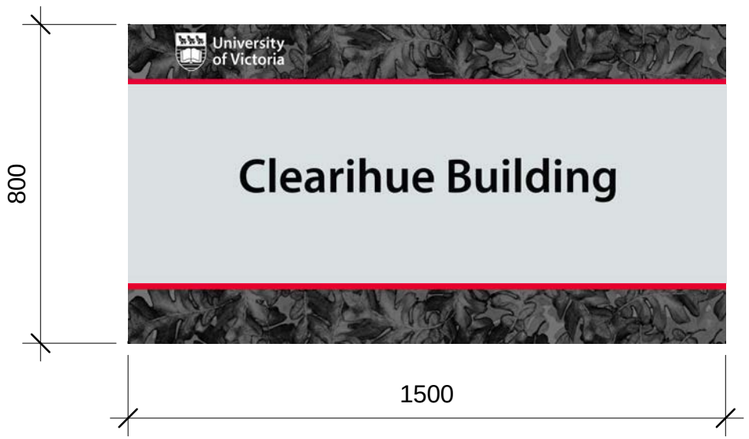
scale 1:15

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

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

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

Refer to Adobe Photoshop files for detailed sample layout



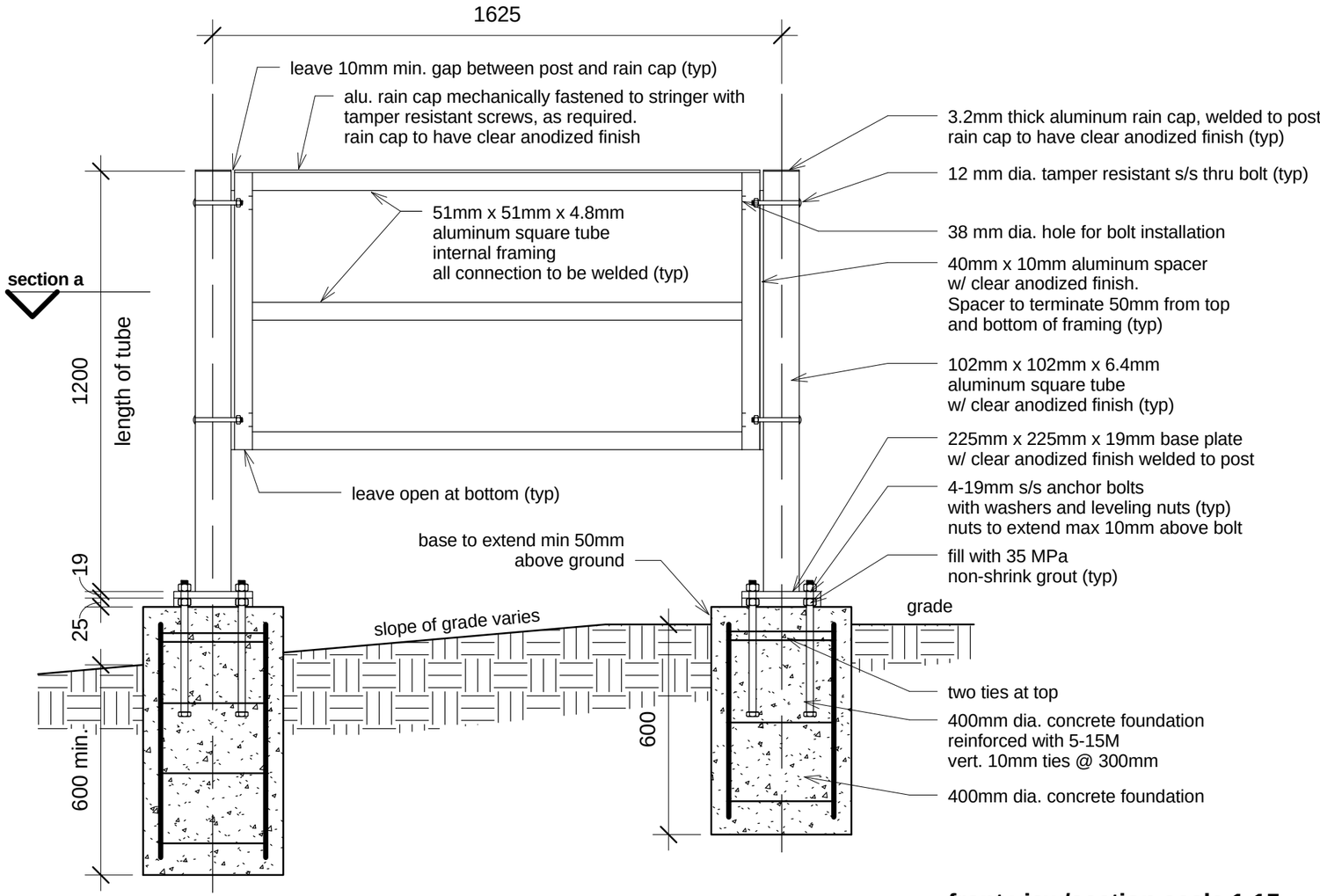
scale 1:15

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

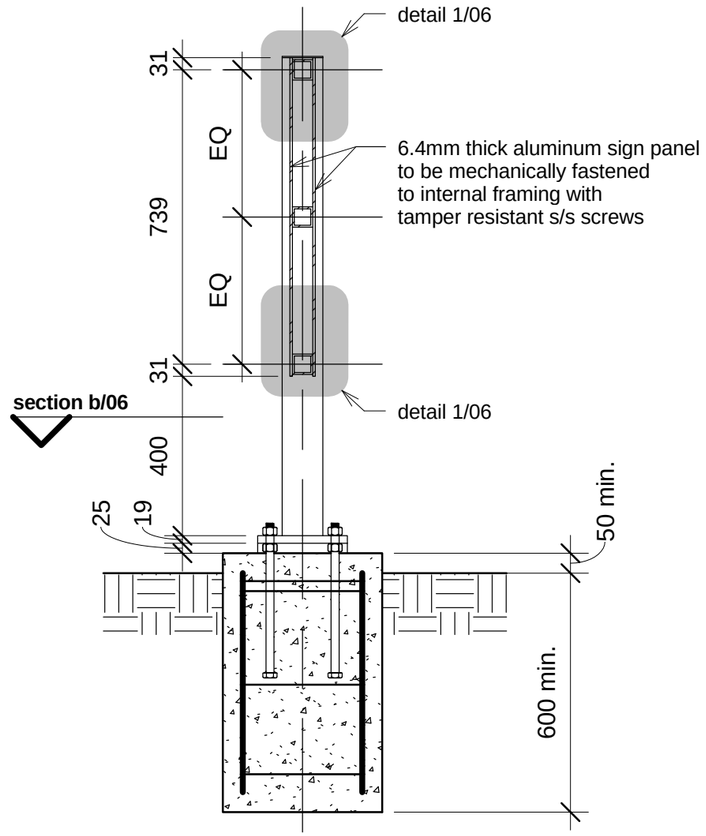
sign: Sign No. 3A - Building Identification
sheet name: sign design - graphic design details
scale: as noted

sheet number: 04

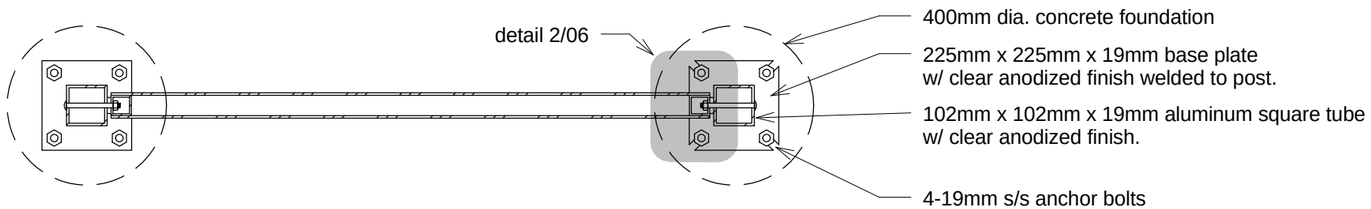
University of Victoria



front view/section scale 1:15



side view/section scale 1:15



section a scale 1:15

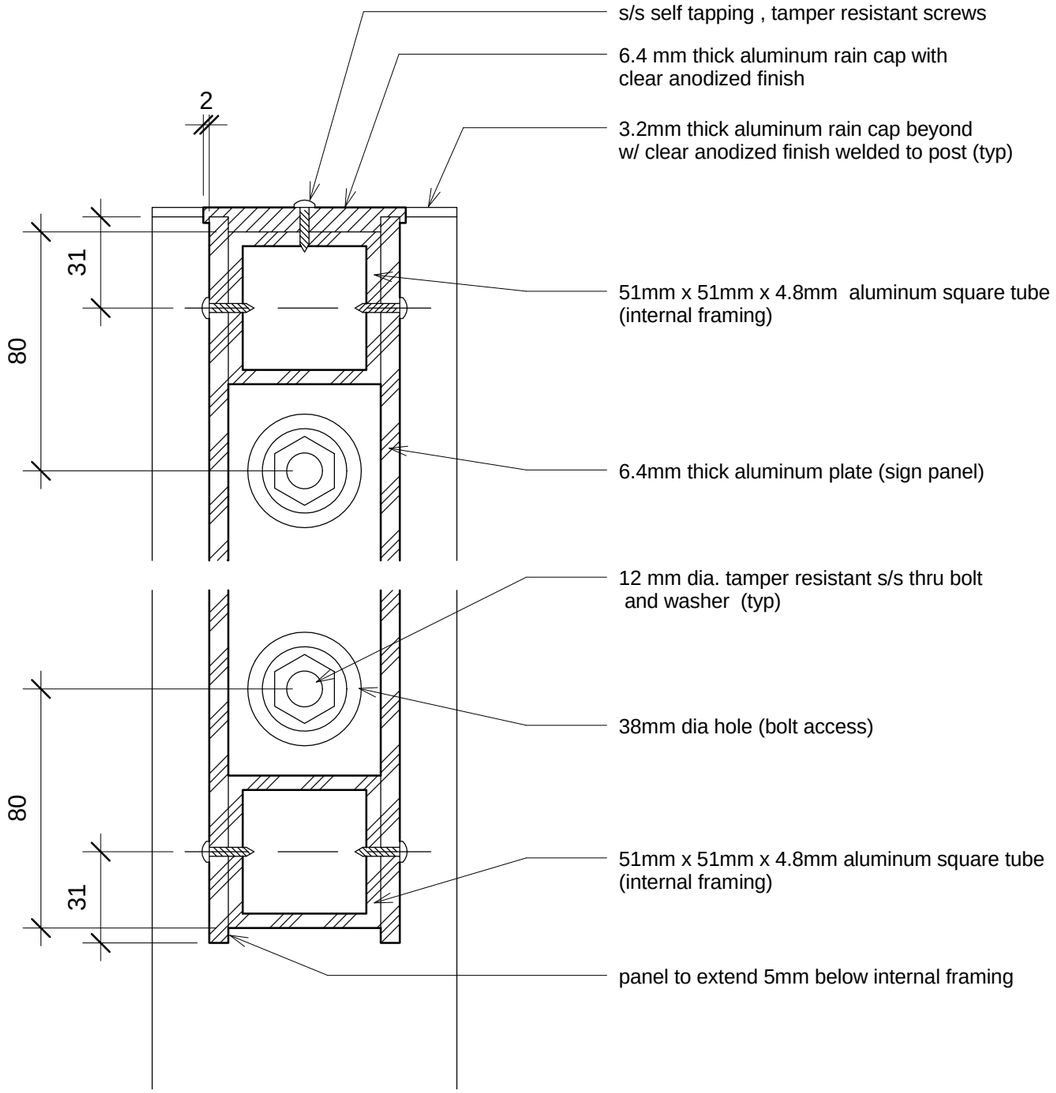
General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.

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

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

sheet number: 05

University of Victoria



General Note:
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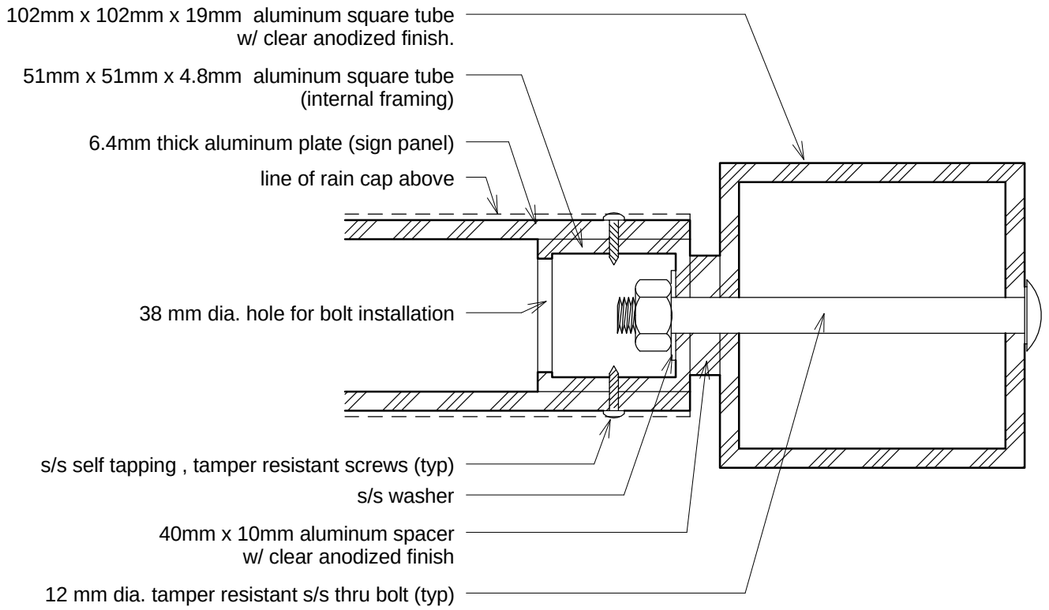
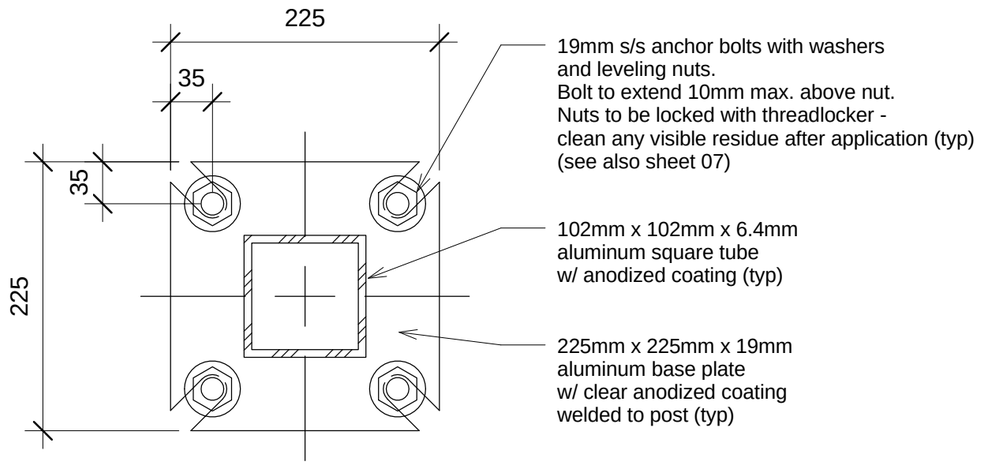
section detail 1 scale 1:2



section detail 2 scale 1:2



section b (slip base) scale 1:5

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

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

sheet number: 06

University of Victoria

GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan
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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)
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)
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3. Threadlocker: Locktite 271 Red
4. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating)
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STRUCTURAL NOTES

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Structural Engineer guarantors of the Contractor's work. It remains the Contractor's responsibility
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or for the failure of any of them to carry out the work in accordance with the contract documents.
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STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and
referenced documents.
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class
C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate
size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of
concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

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

Sheet List	
Sheet Number	Sheet Name

01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design - overview
04	sign design - graphic design details
05	sign construction - sections
06	sign construction - details
07	general notes

Sign No. 3B
Vehicular - Building Identification

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

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

sheet number: 01

University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic

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

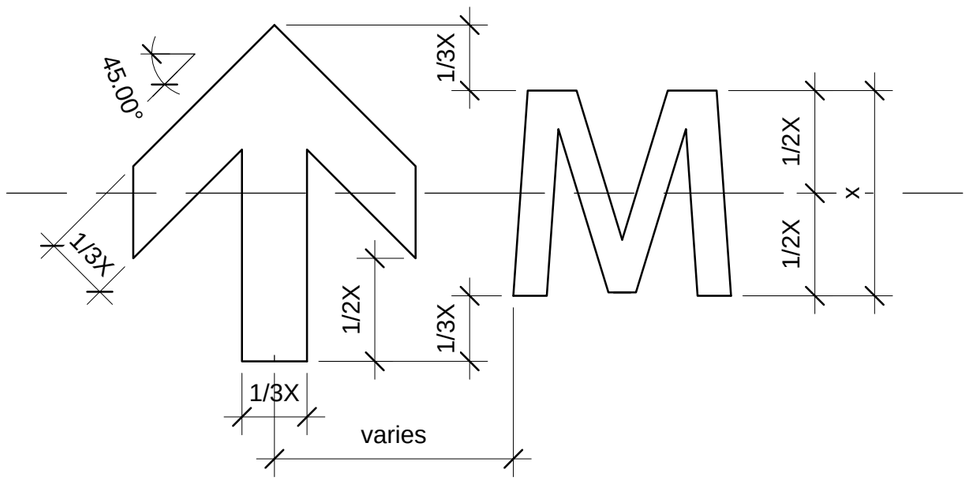
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



University of Victoria Logo, horizontal standard

University of Victoria

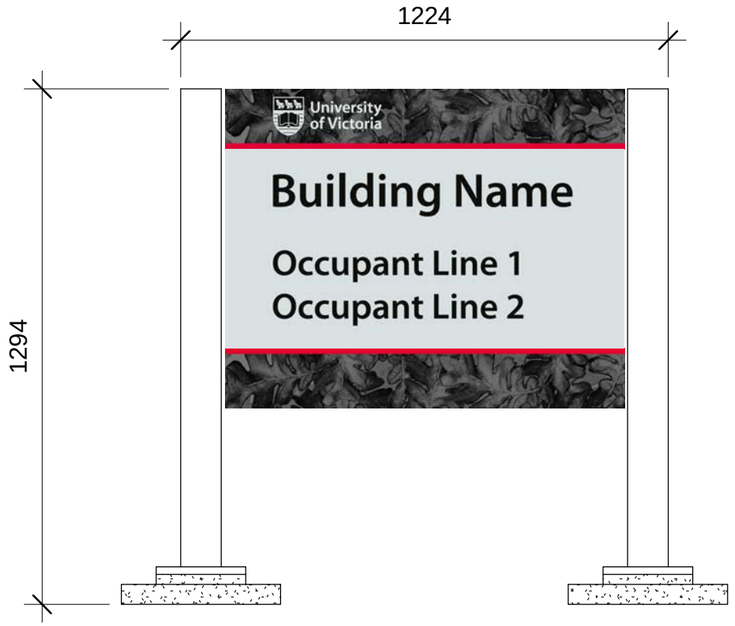
University of Victoria

full colur

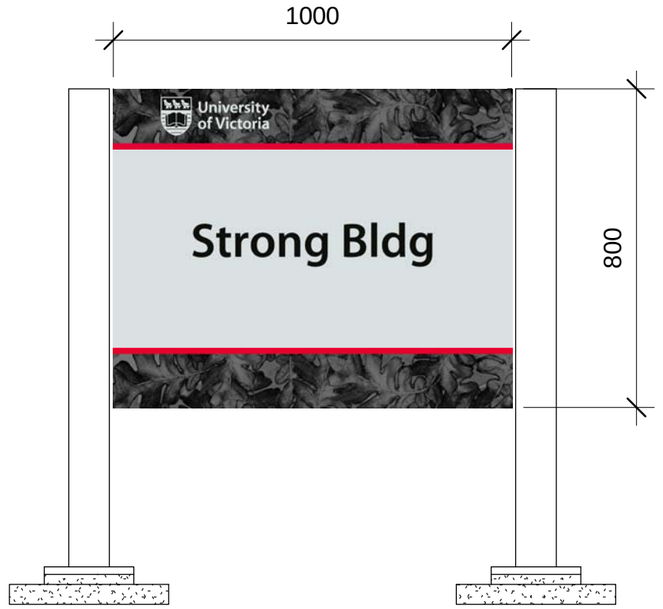
reverse monochromatic -shown against background for clarity

project:	Campus Wayfinding	sign:	Sign No. 3B - Building Identification	sheet number:	02
number:	-	sheet name:	typography, colours and pictograms		
issue date:	April 1, 2019	scale:	as noted		

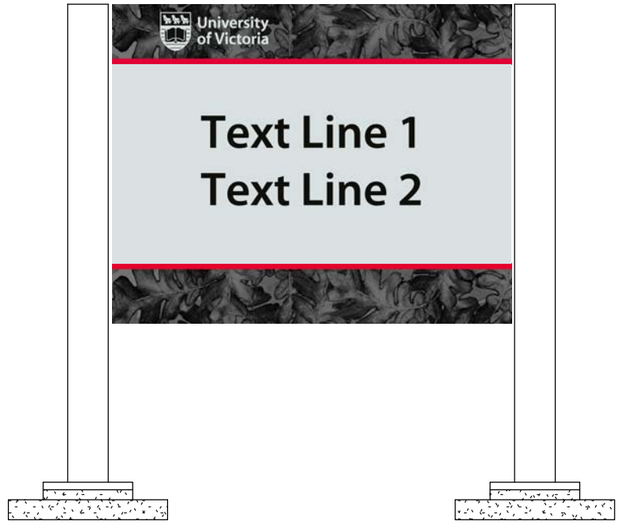
University of Victoria



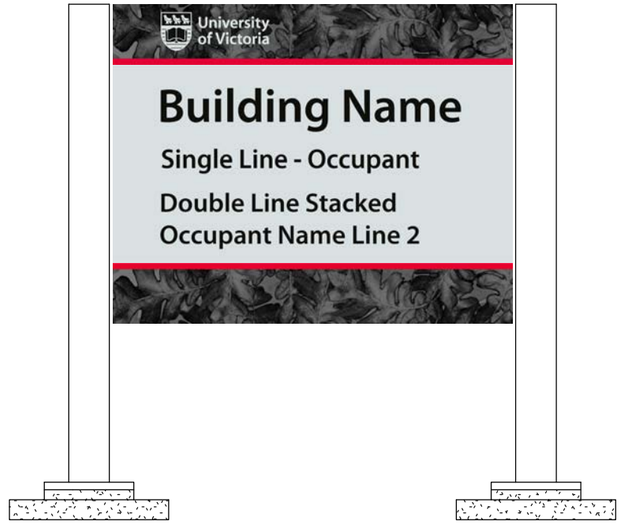
building name with occupant names
scale 1:15



building name, text in one line
scale 1:15



building name, text in two lines
scale 1:15



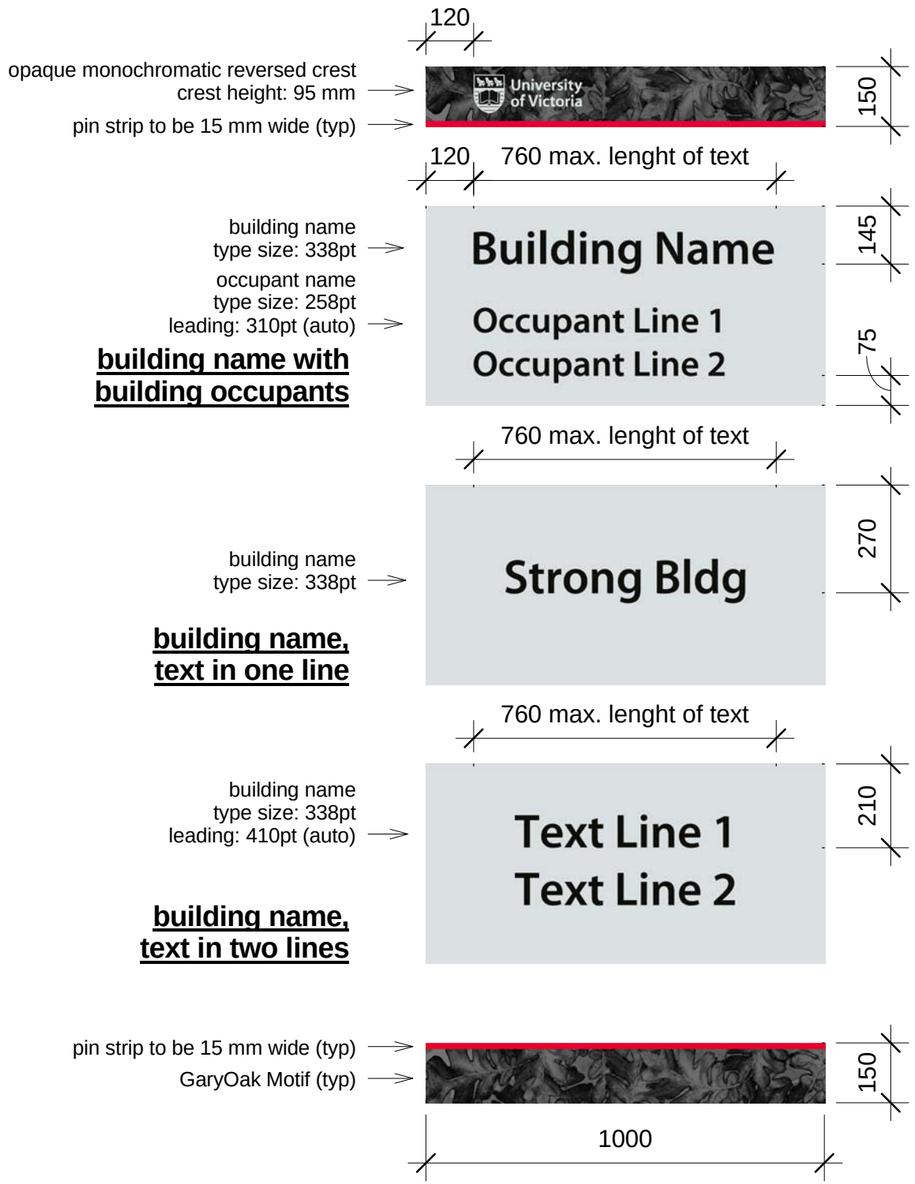
building name, text in two lines (double line stacked)
scale 1:15

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

sign:	Sign No. 3B - Building Identification
sheet name:	sign design - overview
scale:	as noted

sheet number: 03

University of Victoria



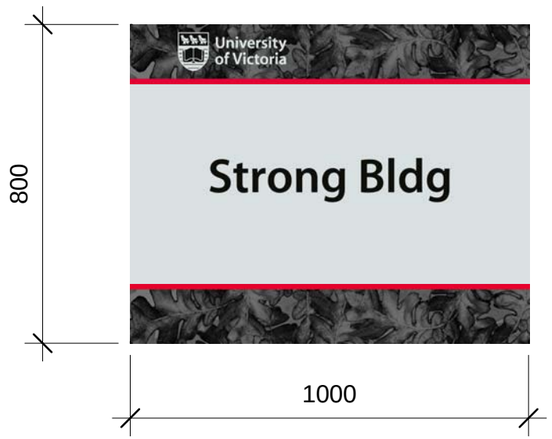
scale 1:15

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

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

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

Refer to Adobe Photoshop files for detailed sample layout



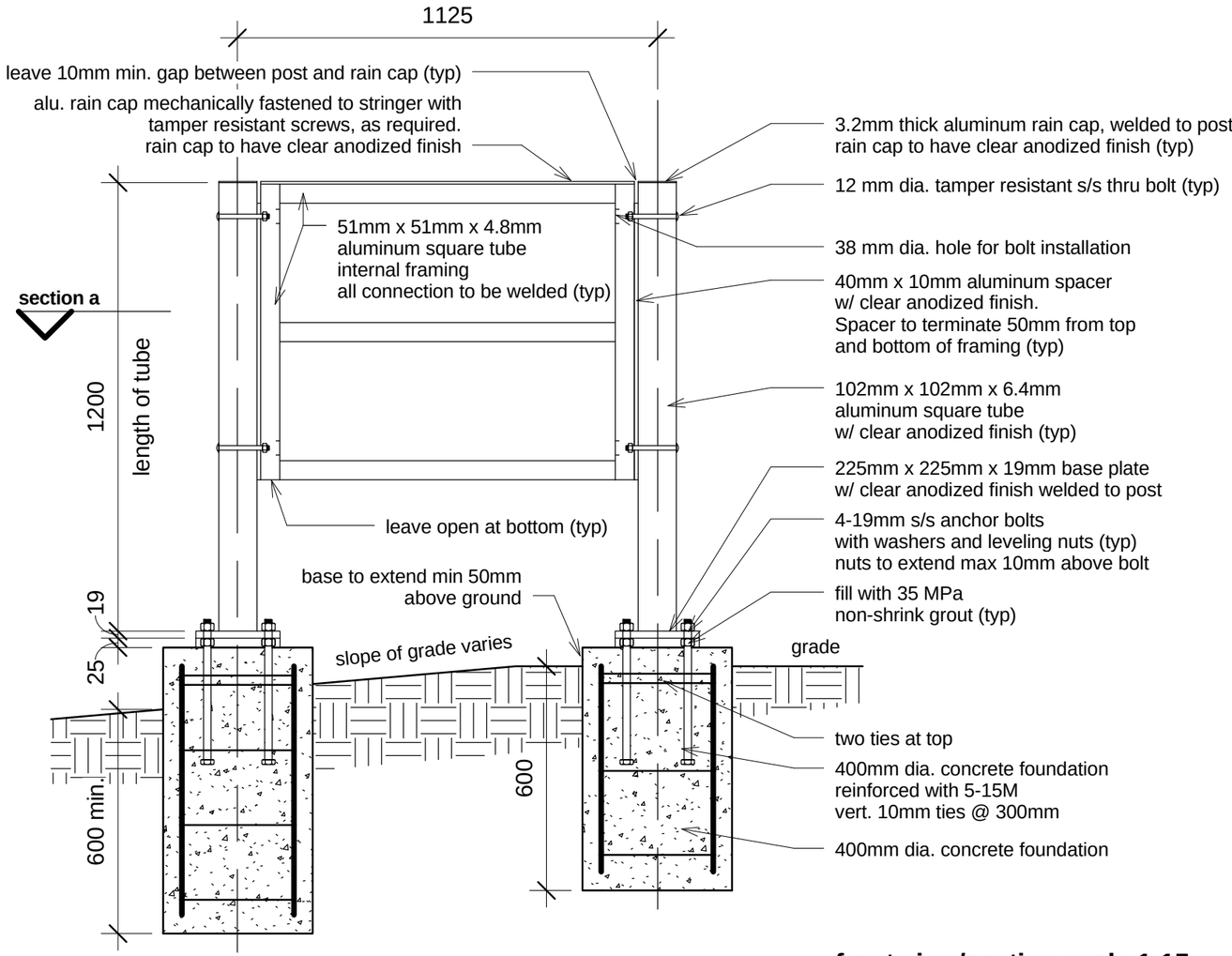
scale 1:15

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

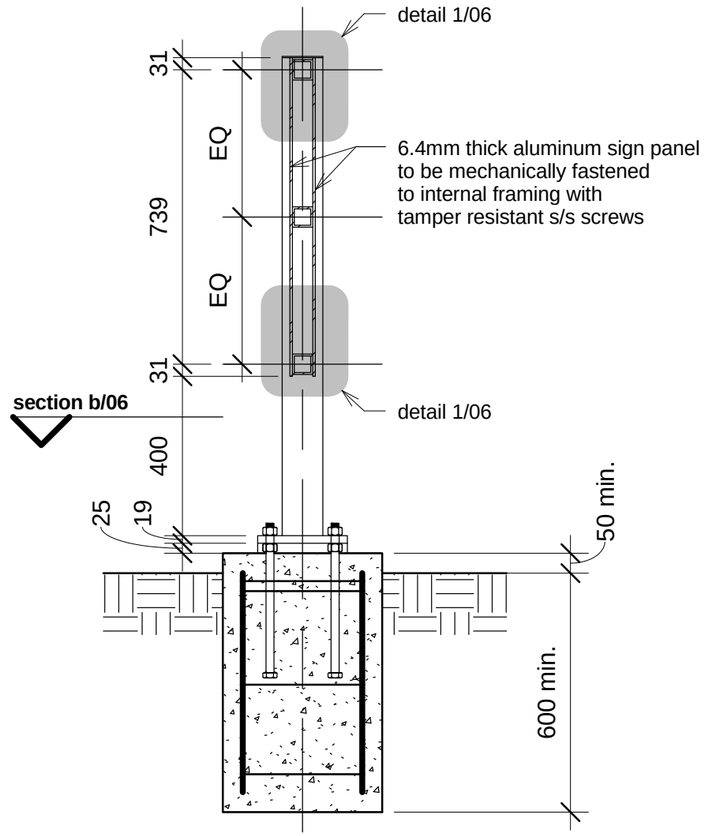
sign: Sign No. 3B - Building Identification
sheet name: sign design - graphic design details
scale: as noted

sheet number: 04

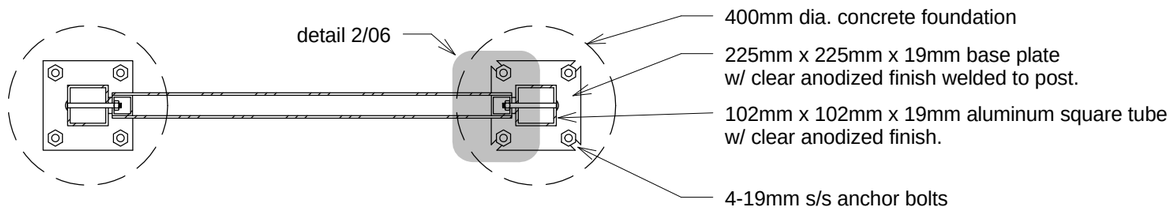
University of Victoria



front view/section scale 1:15



side view/section scale 1:15



section a scale 1:15

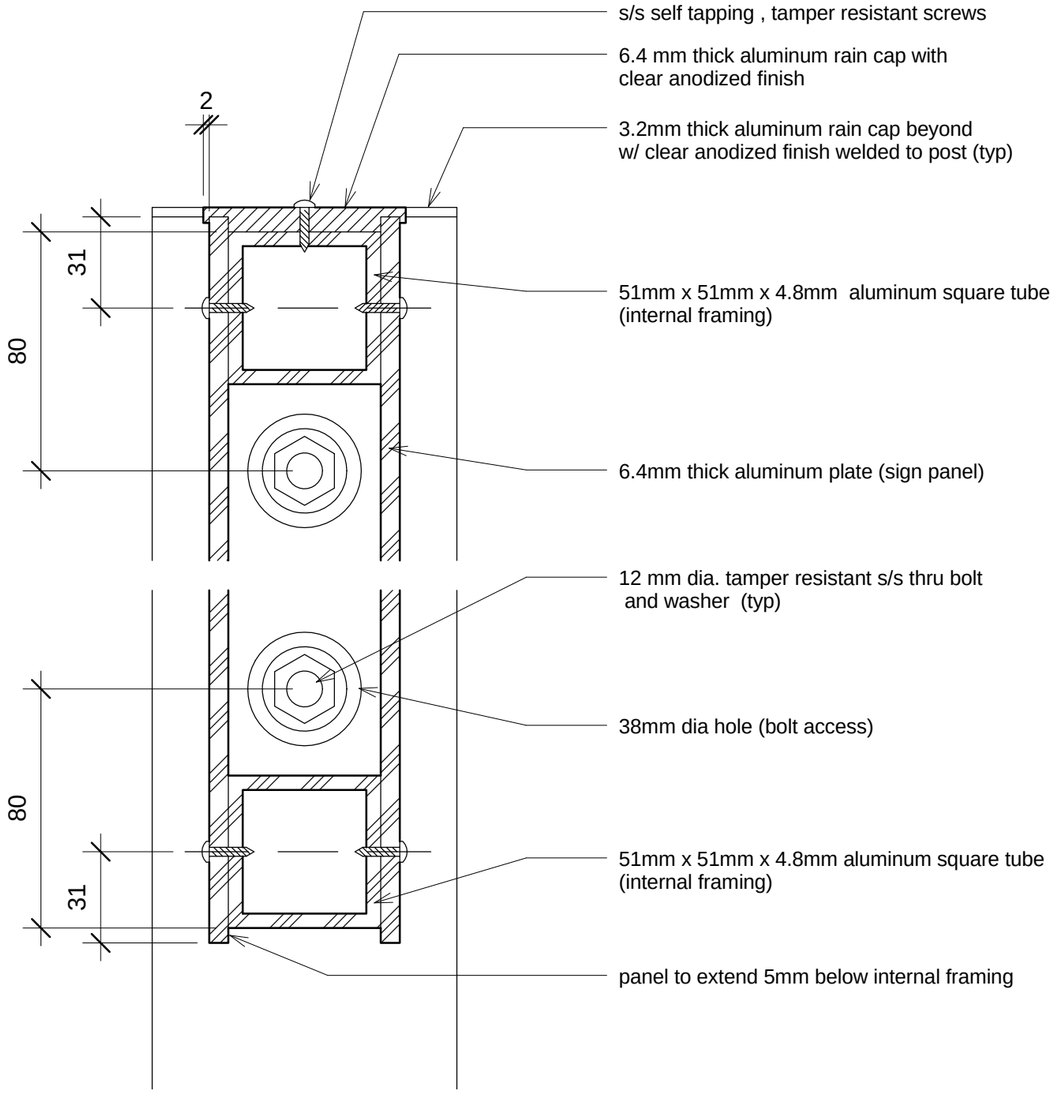
General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.

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

sign: Sign No. 3B - Building Identification
sheet name: sign construction - sections
scale: as noted

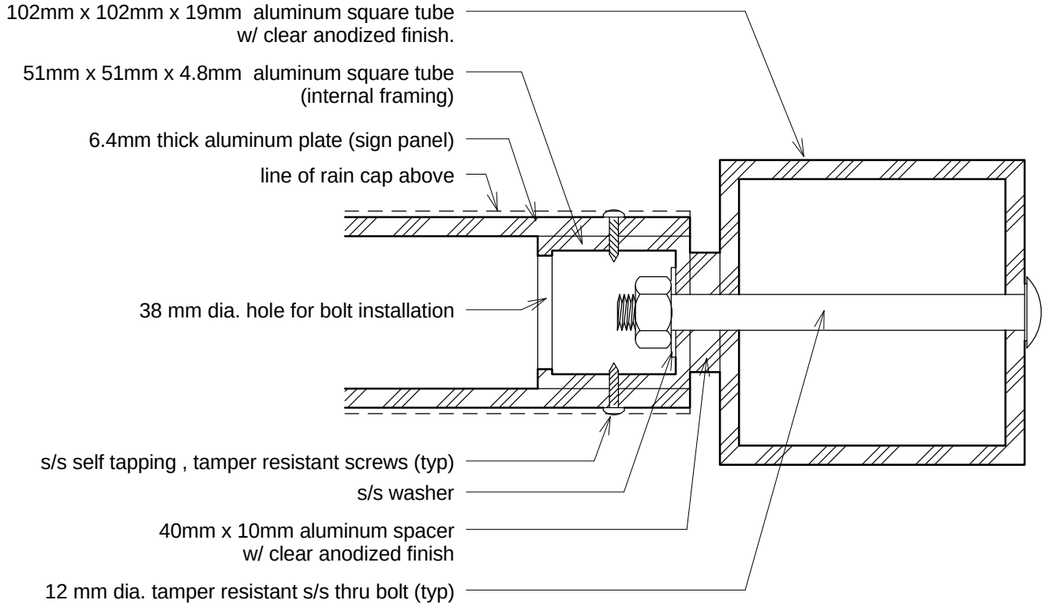
sheet number: 05

University of Victoria

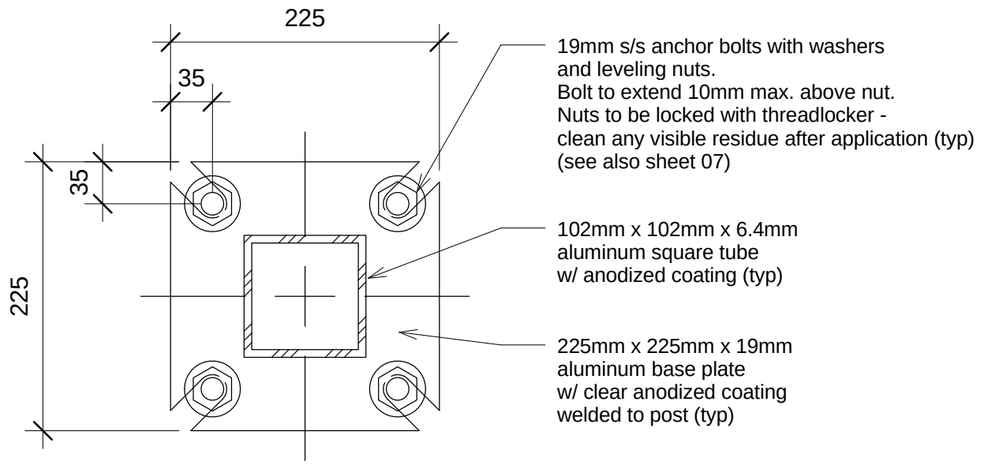


General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.

section detail 1 scale 1:2



section detail 2 scale 1:2



section b (slip base) scale 1:5

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

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

sheet number: 06

University of Victoria

GENERAL NOTES

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

STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and
referenced documents.
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class
C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate
size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of
concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

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

Sheet List	
Sheet Number	Sheet Name

01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design - overview
04	sign design - graphic design details
05	sign construction - sections
06	sign construction - details
07	general notes

Sign No. 6
Vehicular - Directional

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

sign: Sign No. 6 - Directional
sheet name: title sheet and drawing list
scale: as noted

sheet number: 01

University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic

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

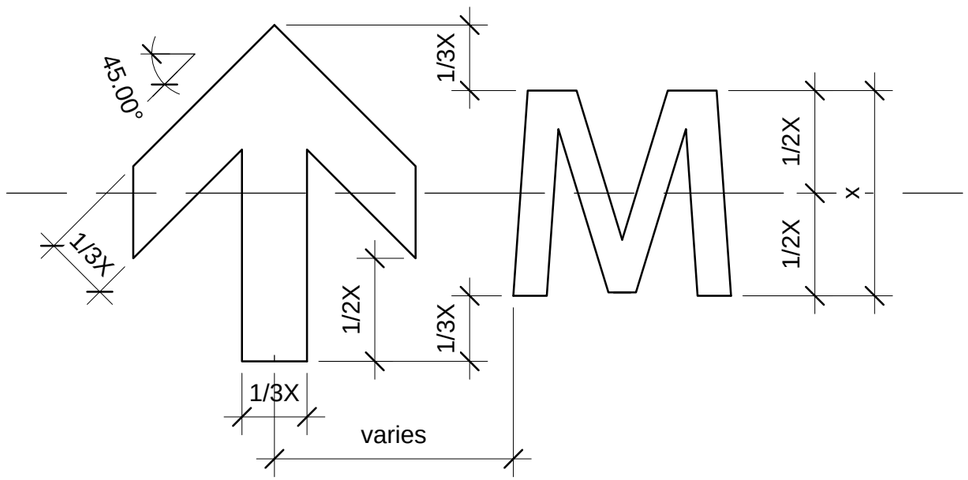
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



University of Victoria Logo, horizontal standard

University of Victoria

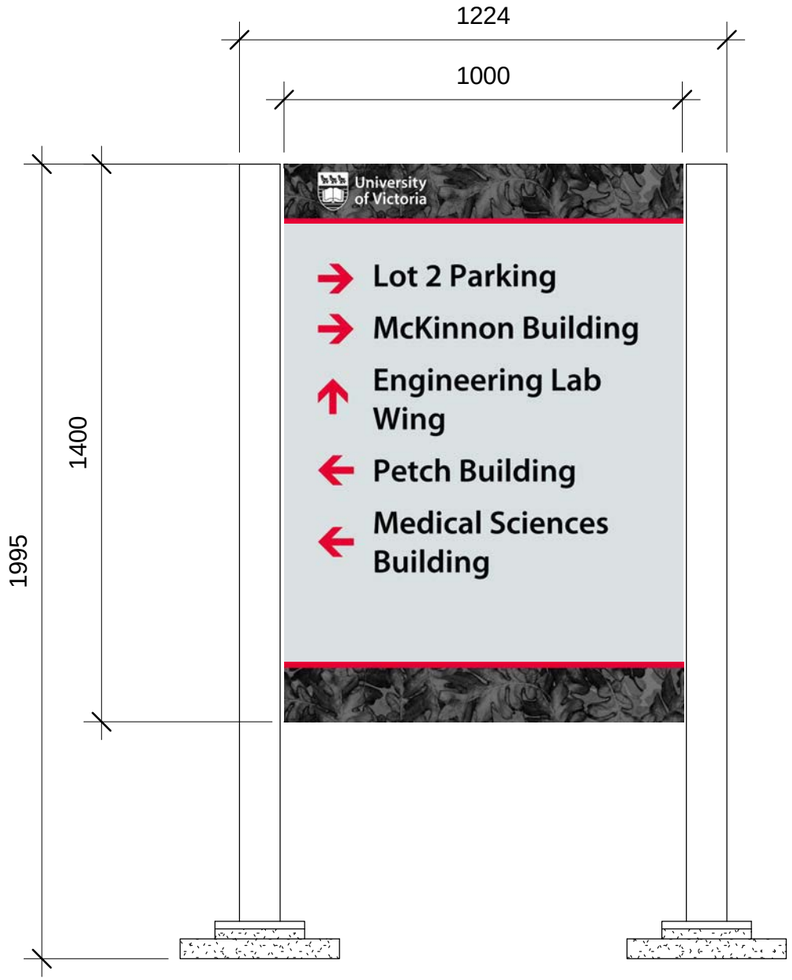
University of Victoria

full colour

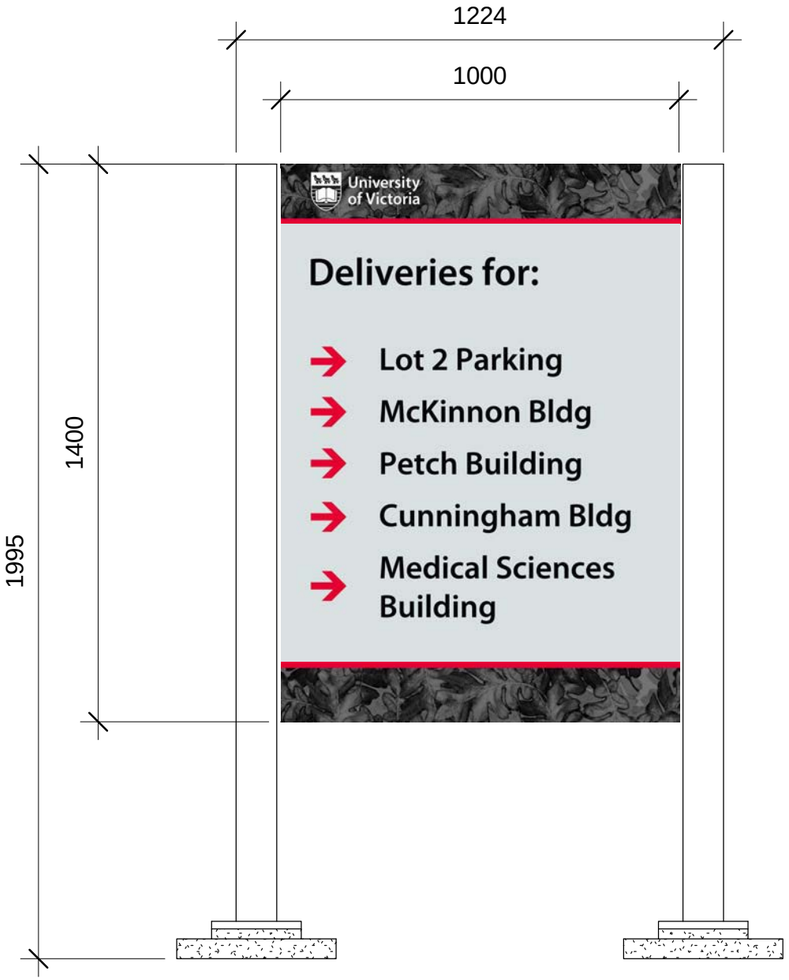
reverse monochromatic - shown against background for clarity

project:	Campus Wayfinding	sign:	Sign No. 6 - Directional	sheet number:	02
number:	FM 09-8567	sheet name:	typography, colours and pictograms		
issue date:	April 1, 2019	scale:	as noted		

University of Victoria



Directional version 1
scale 1:15



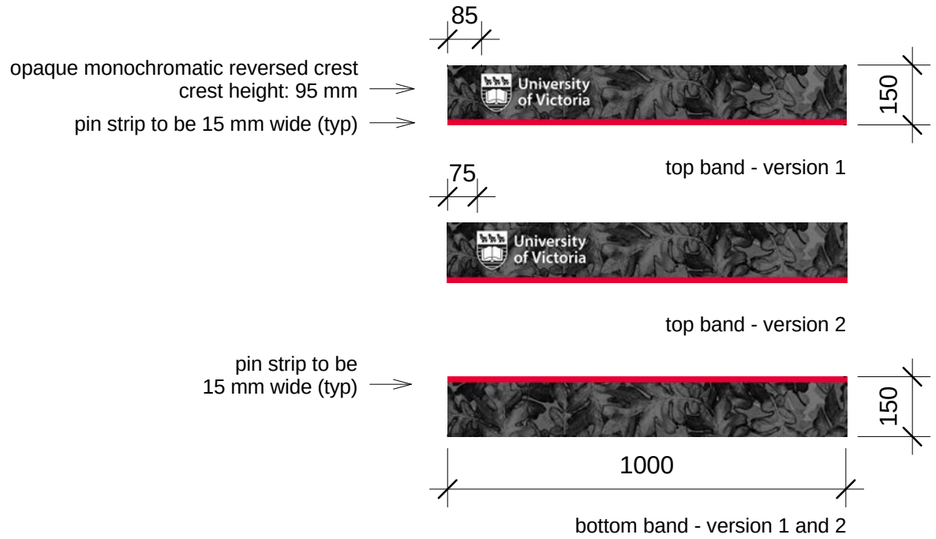
Directional version 2
scale 1:15

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

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

sheet number: 03

University of Victoria

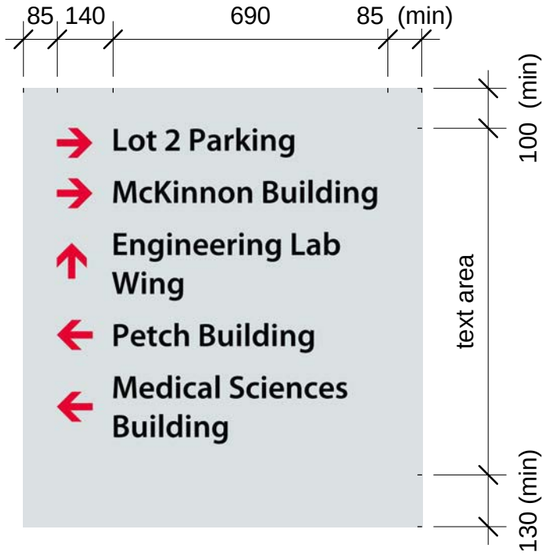


Description
Digitally printed vinyl protected with
anti-graffiti, optically clear overlaminate
Aluminum panel size (one piece): 1000 mm x 1400 mm x 6.4 mm
See sheet 05 for details.

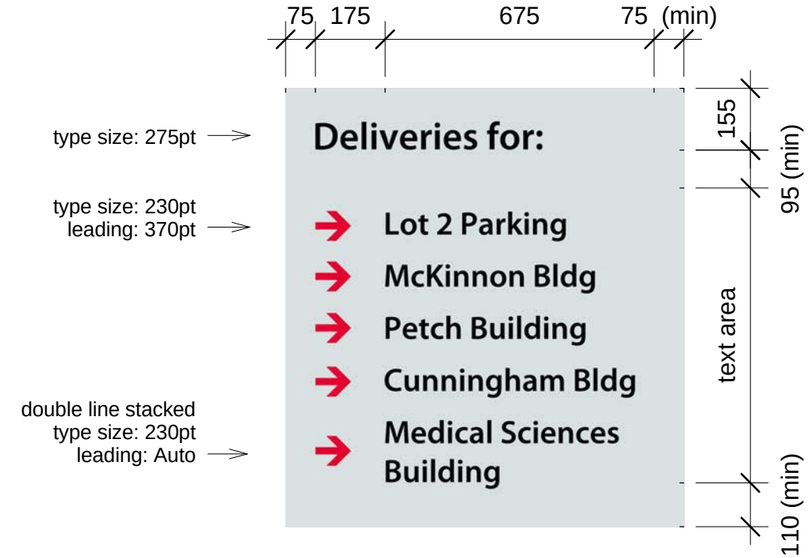
Vinyl:	3M IJ180, MPI 2005 or equivalent
Overlaminate:	3M 8914, Avery DOL 6060 or equivalent.

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

Refer to Adobe Photoshop files for detailed sample layout



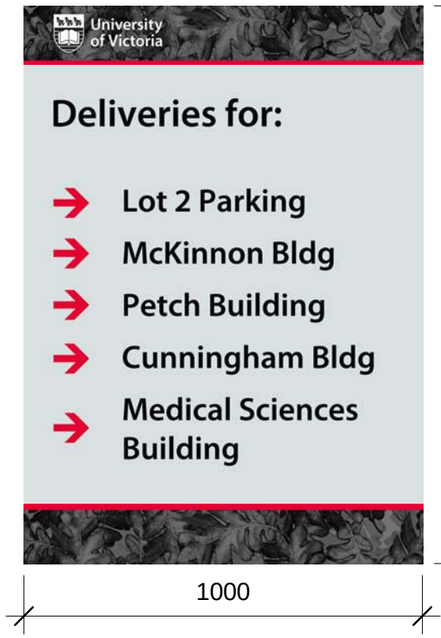
version 1



version 2

scale 1:15

version 1



version 2

scale 1:15

project:	Campus Wayfinding
number:	FM 09-8567
issue date:	April 1, 2019
sign:	Sign No. 6 - Directional
sheet name:	sign design - graphic design details
scale:	as noted

sheet number: 04

University of Victoria

project:
number:
issue date:

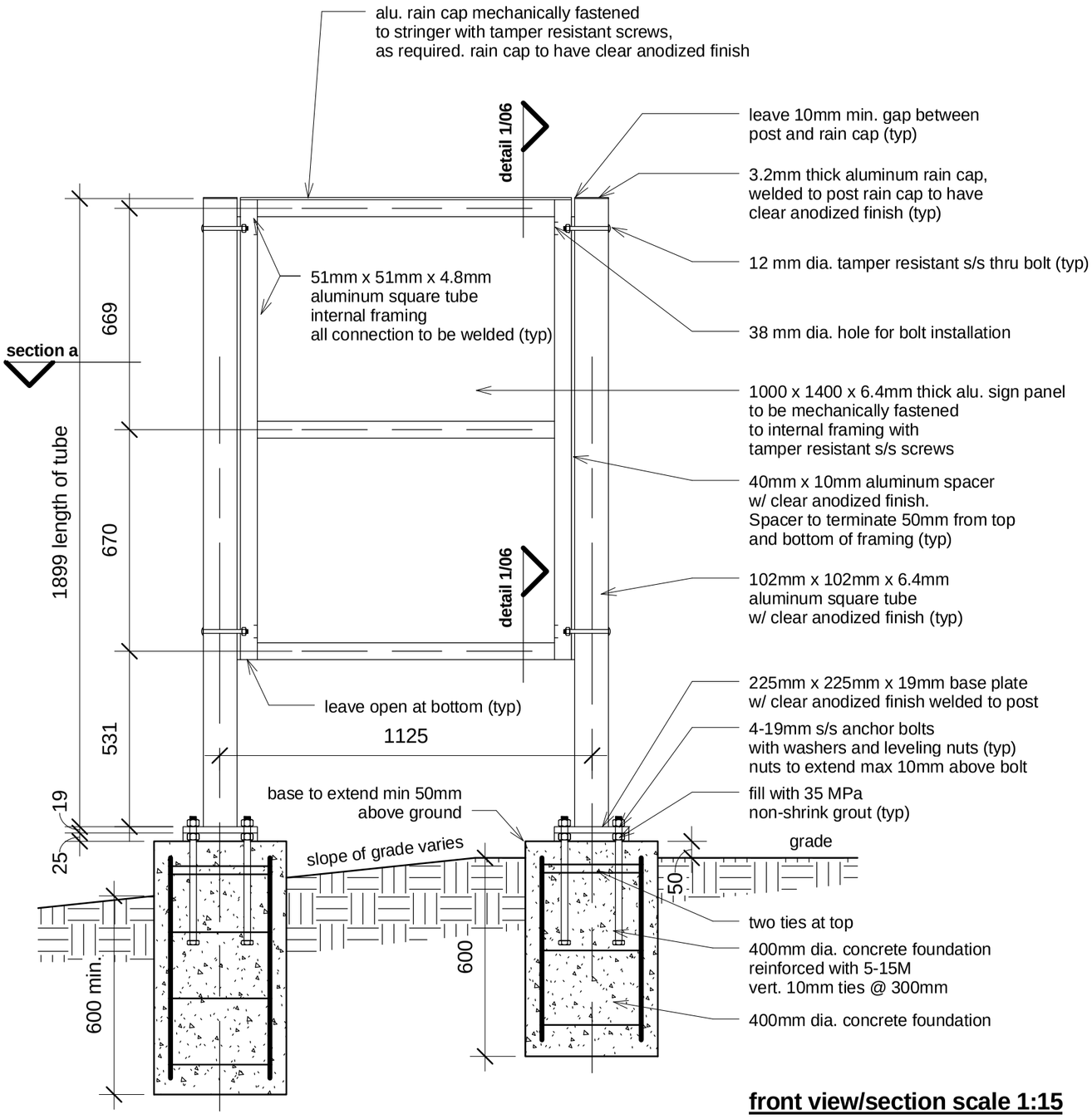
Campus Wayfinding
FM 09-8567
April 1, 2019

sign:
sheet name:
scale:

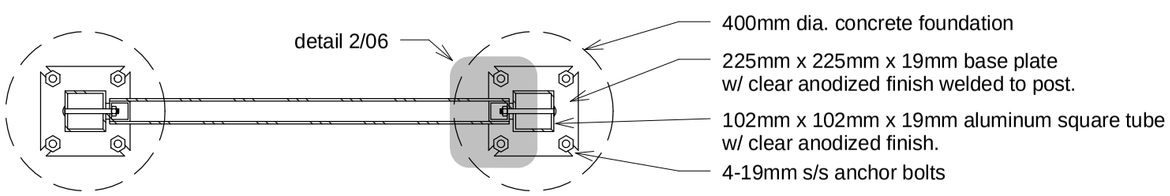
Sign No. 6 - Directional
sign construction - sections
as noted

sheet
number:

05



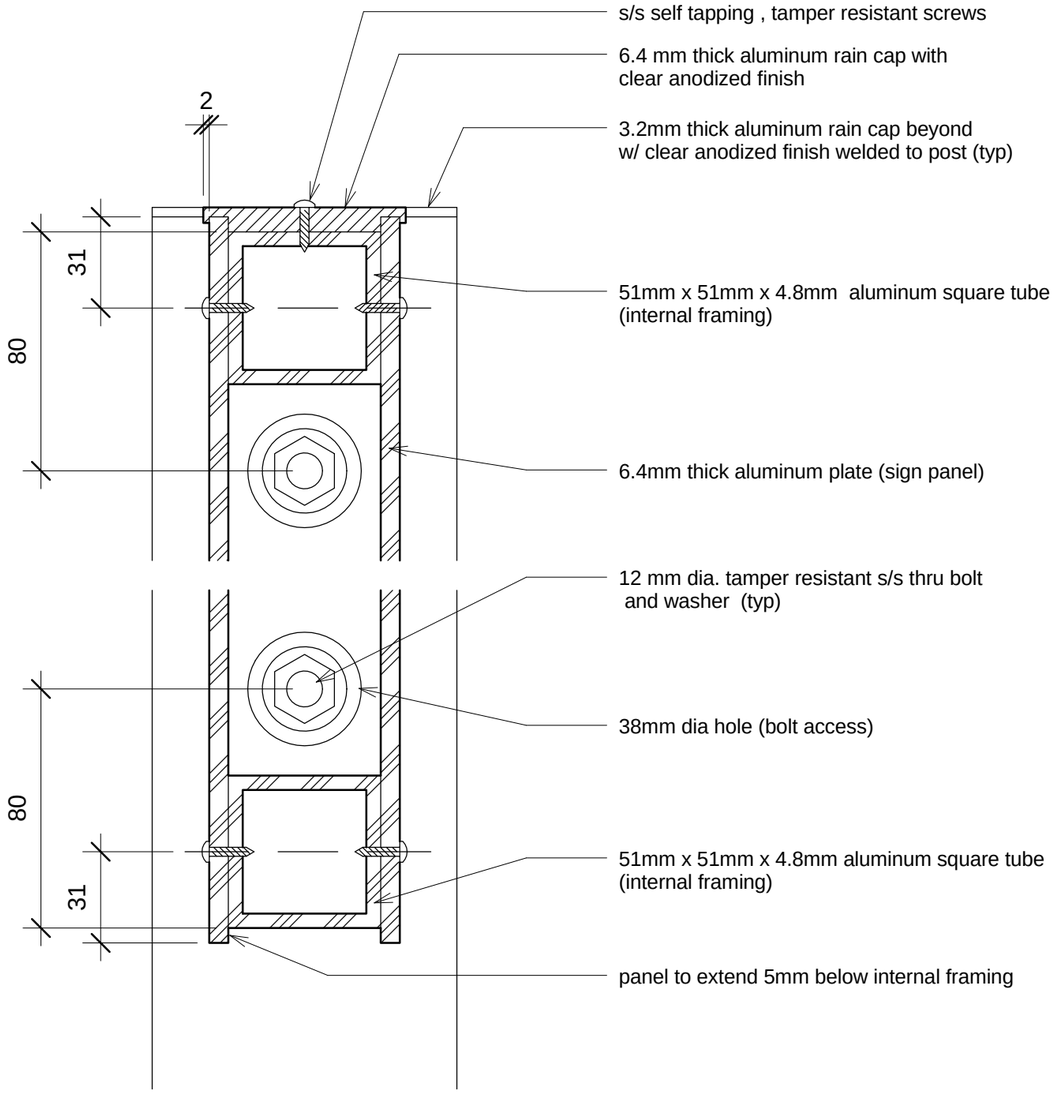
front view/section scale 1:15



section a scale 1:15

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

University of Victoria



General Note:
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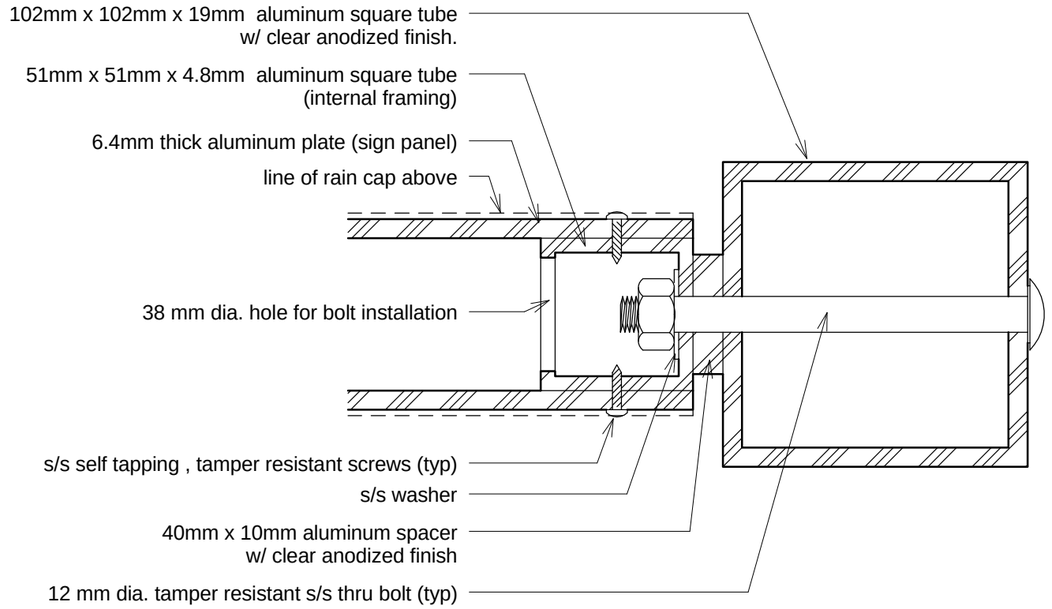
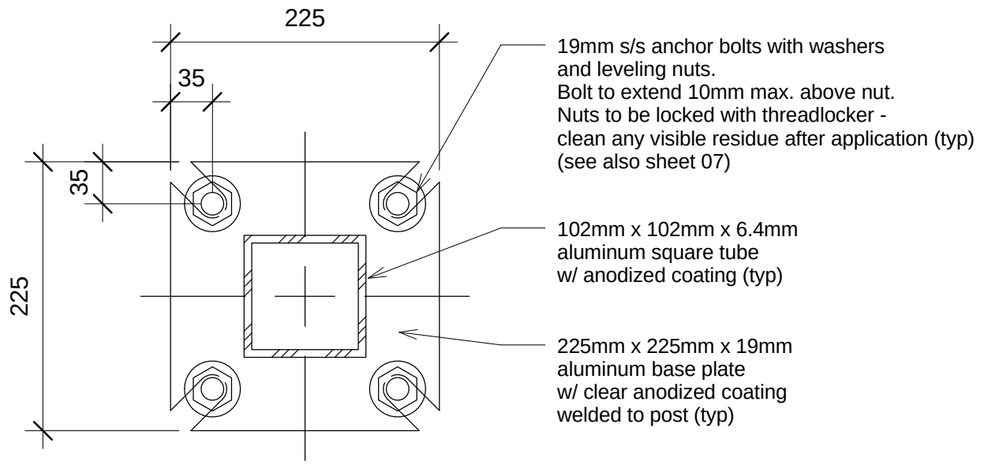
section detail 1 scale 1:2



section detail 2 scale 1:2



section b (slip base) scale 1:5

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

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

sheet number: 06

University of Victoria

GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan
Form and placement of stickers on signs is to be coordinated with University of Victoria
2. Fasteners:
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)
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.
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STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and
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2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class
C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate
size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of
concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

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

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

sign: Sign No. 6 - Directional
sheet name: general notes
scale: as noted

sheet number: 07

University of Victoria

Sheet List	
Sheet Number	Sheet Name
01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design - overview
04	sign design - graphic design details
05	sign construction - sections
06	sign construction - details
07	general notes

Sign No. 6A
Vehicular - Directional

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

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

sheet number: 01

University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic

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

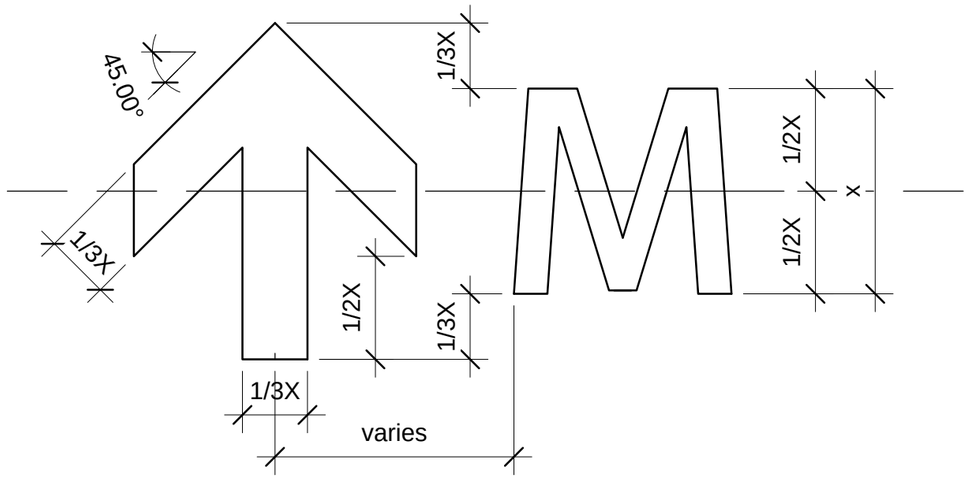
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



University of Victoria Logo, horizontal standard

University of Victoria

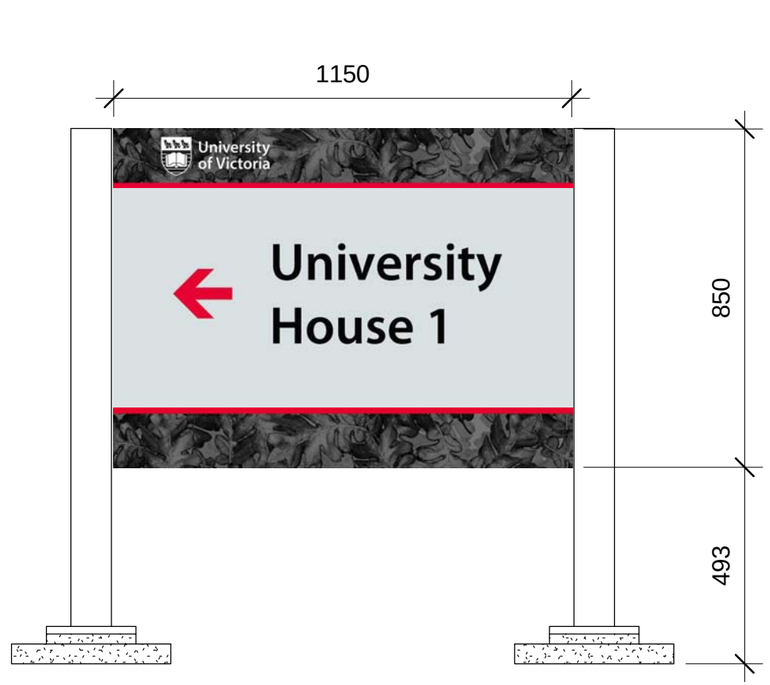
University of Victoria

full colour

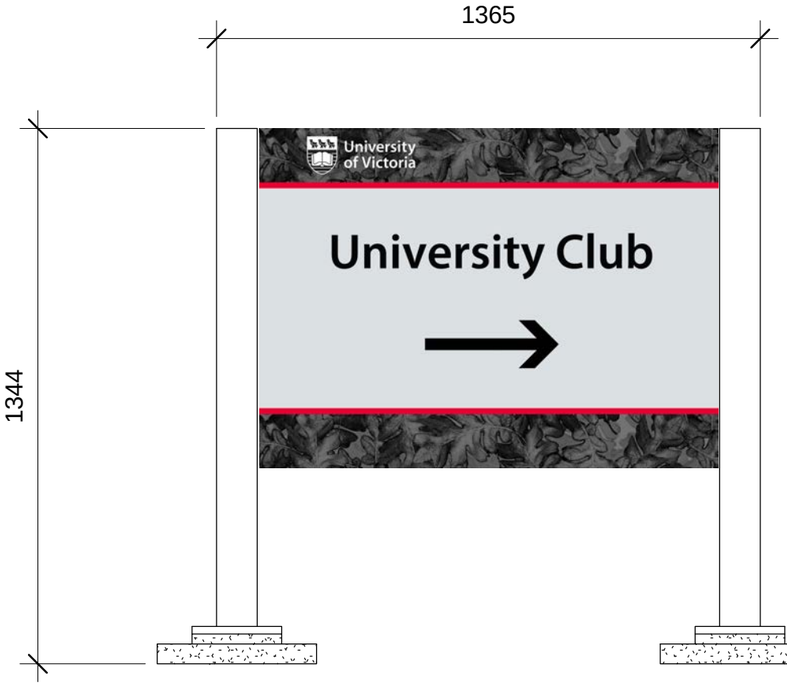
reverse monochromatic - shown against background for clarity

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

University of Victoria



Version 1 scale 1:15



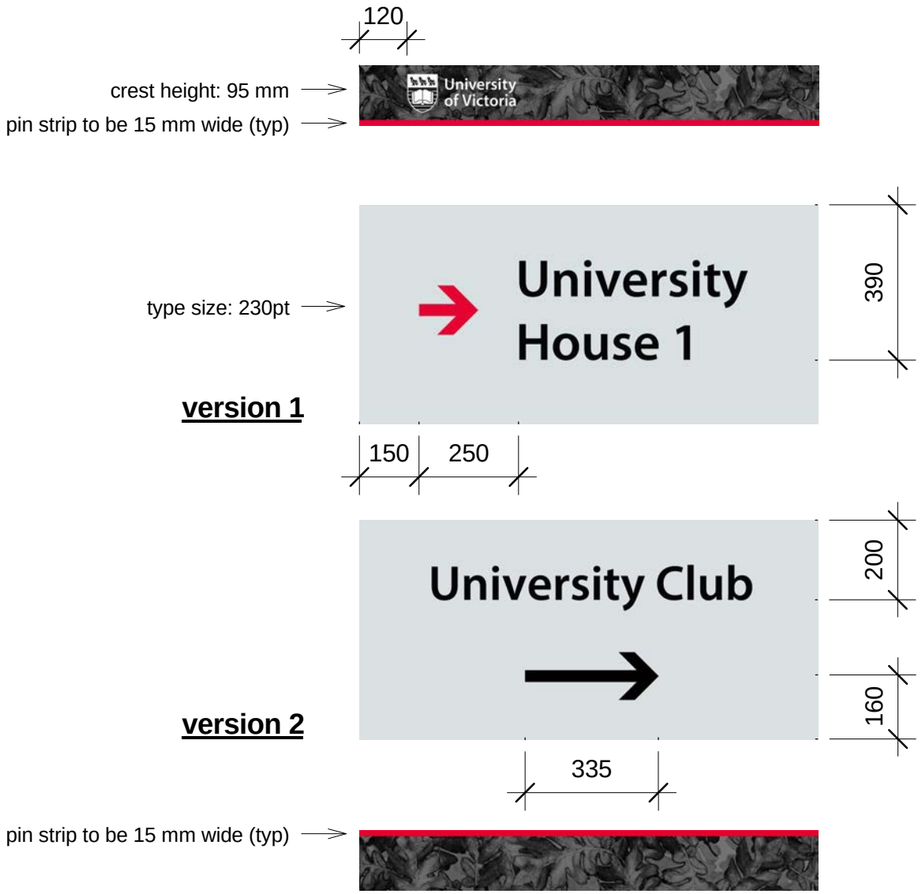
Version 2 scale 1:15

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

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

sheet number: 03

University of Victoria



version 1

version 2

scale 1:15

Description

Digitally printed vinyl protected with
anti-graffiti, optically clear overlaminate
Aluminum panel size (one piece): 1150 mm x 850 mm x 6.4 mm

Reflective vinyl: SRV (white reflective)
Overlaminate: DOL 6060

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

Refer to Adobe Photoshop files for detailed sample layout

version 1 to be used in locations where traffic approaches at low speeds

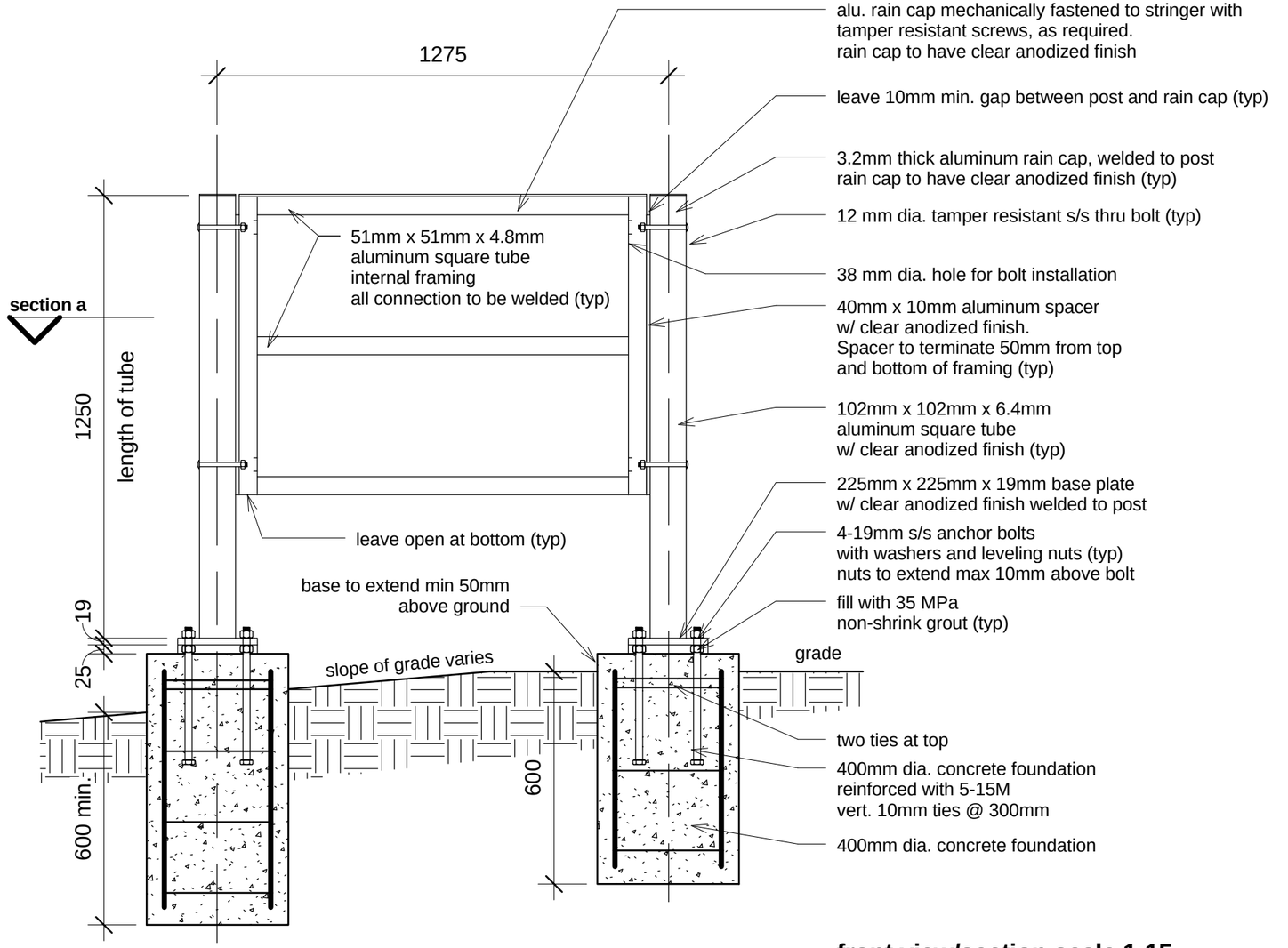
version 2 to be used in locations where traffic approaches at high speeds

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

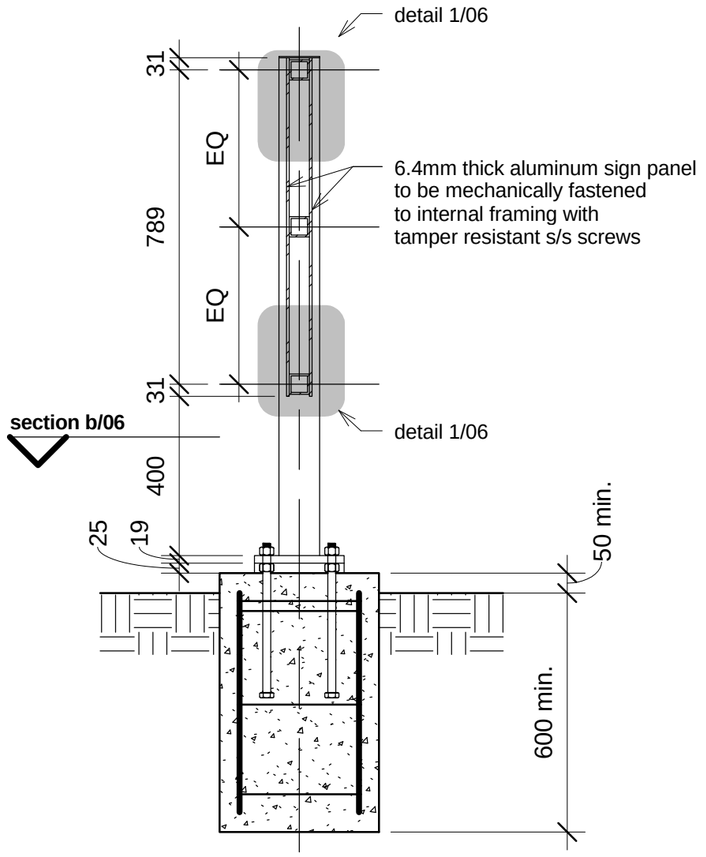
sign: Sign No. 6A
sheet name: sign design - graphic design details
scale: as noted

sheet number: 04

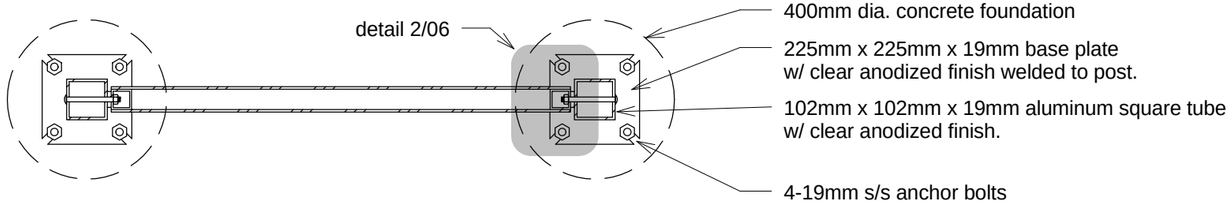
University of Victoria



front view/section scale 1:15



side view/section scale 1:15

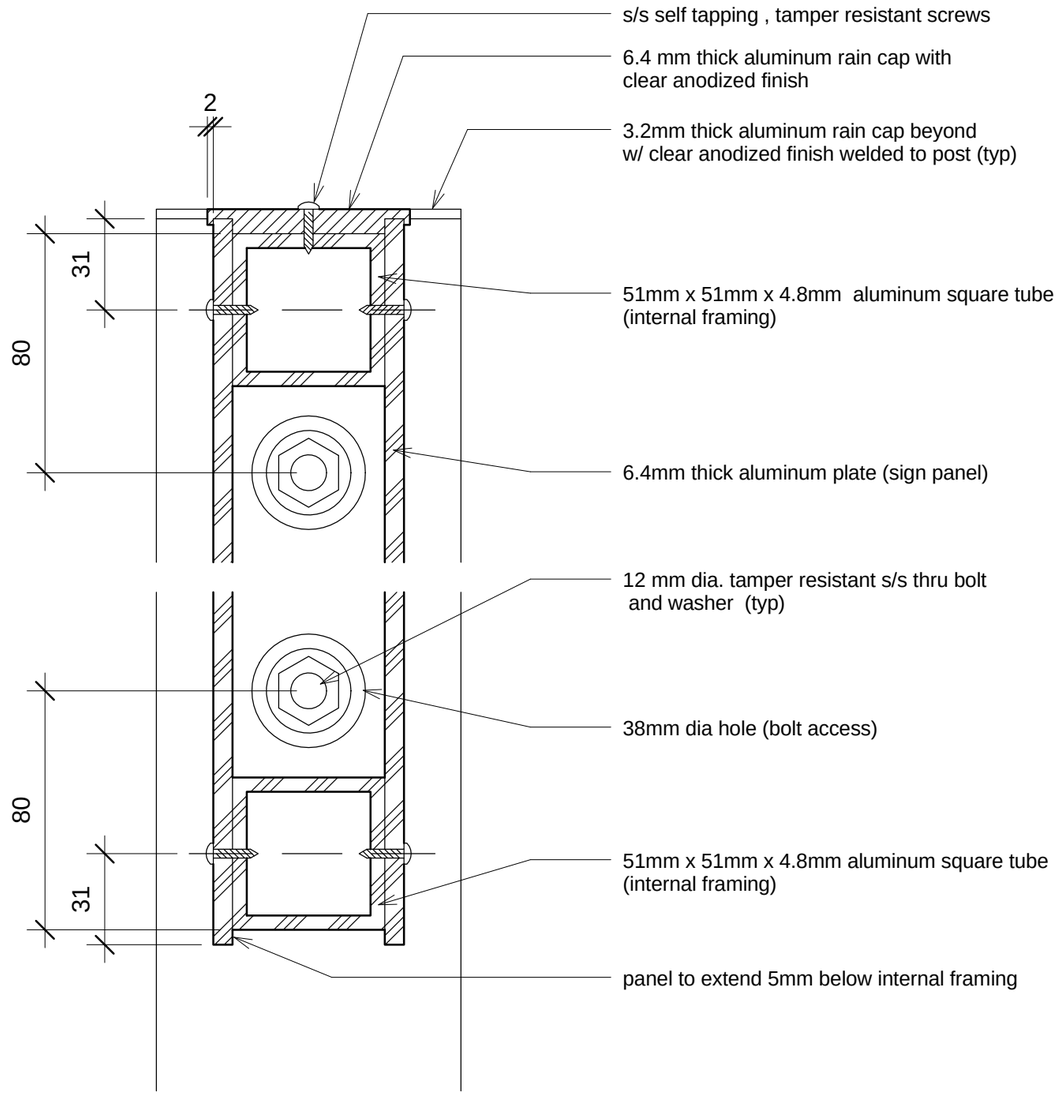


section a scale 1:15

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

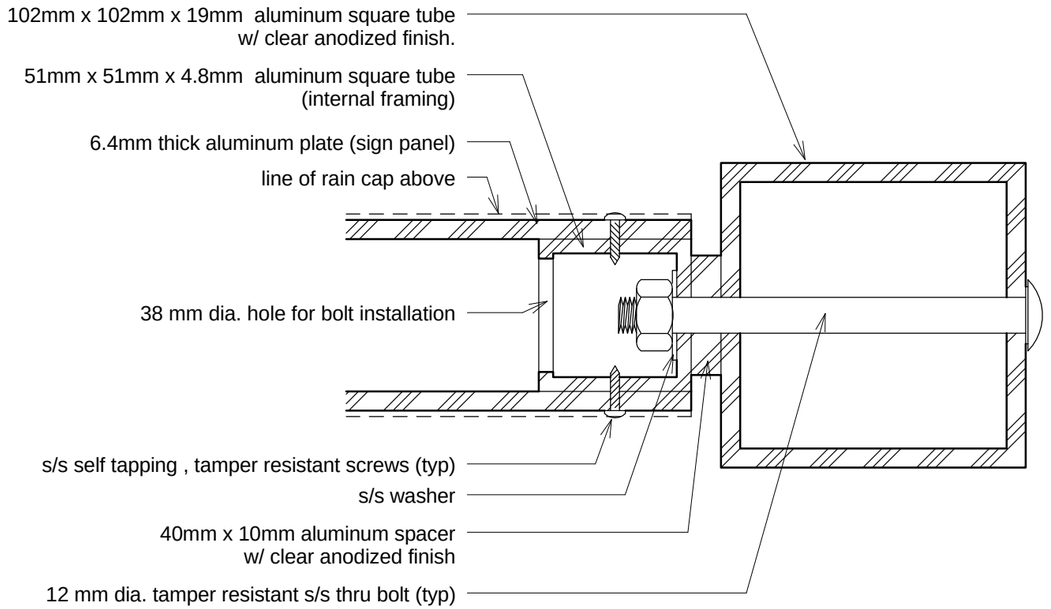
project:	Campus Wayfinding - Phase 1
number:	-
issue date:	April 1, 2019
sign:	Sign No. 6A
sheet name:	sign construction - sections
scale:	as noted
sheet number:	05

University of Victoria

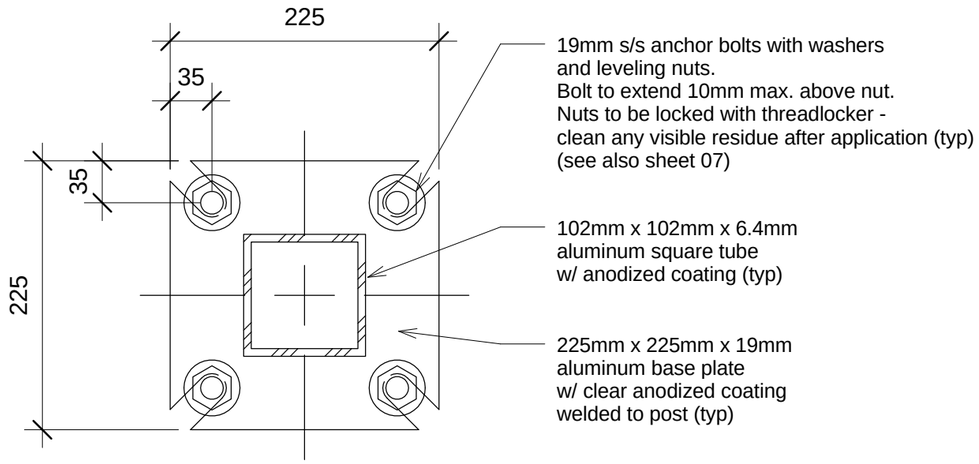


General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.

section detail 1 scale 1:2



section detail 2 scale 1:2



section b (slip base) scale 1:5

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

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

sheet number: 06

University of Victoria

GENERAL NOTES

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

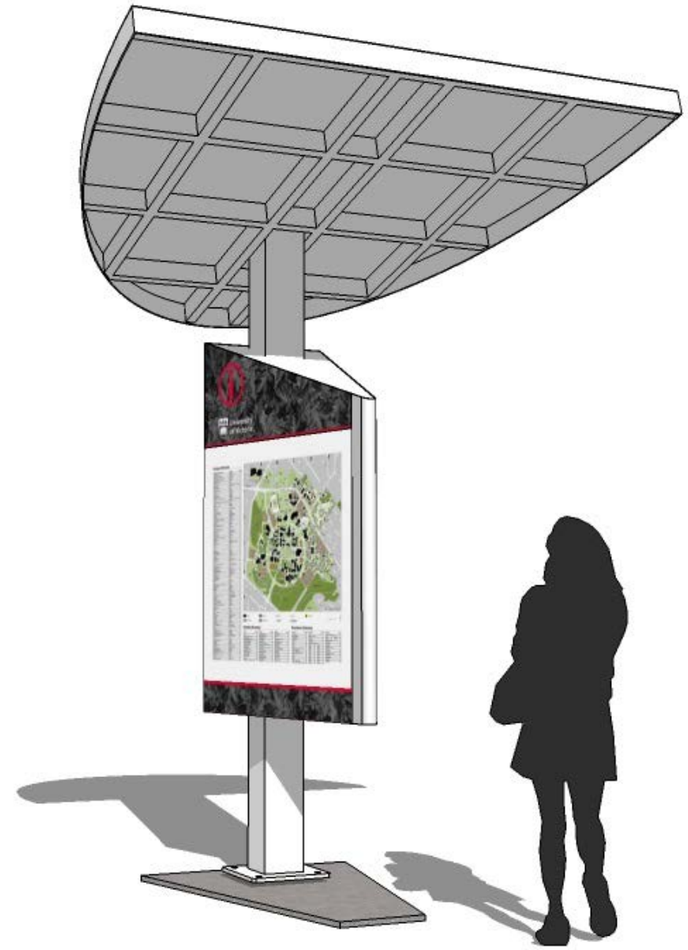
STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and
referenced documents.
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class
C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate
size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of
concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

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

Sheet List	
Sheet Number	Sheet Name
01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design - overview
04	sign design - overview cont.
05	sign design - graphic design details
06	sign design - graphic design details cont.
07	sign construction - cross section
08	sign construction - section plans
09	sign construction - painted canopy plan and details
10	sign construction - details
11	typical concrete slab
12	general notes



Sign No. 8
Pedestrian - Map Directory Kiosk

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

sign: Sign No. 8 Pedestrian Map Directory Kiosk
sheet name: title sheet and drawing list
scale: as noted

sheet number: 01

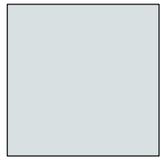
University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic



PANTEONE 7541 C
application: background

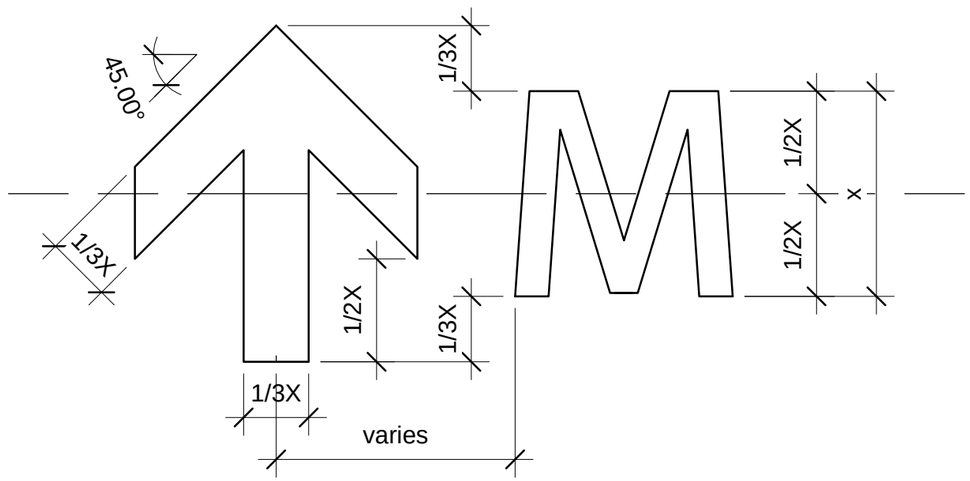
gary oak motif - digital file is to be delivered
by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



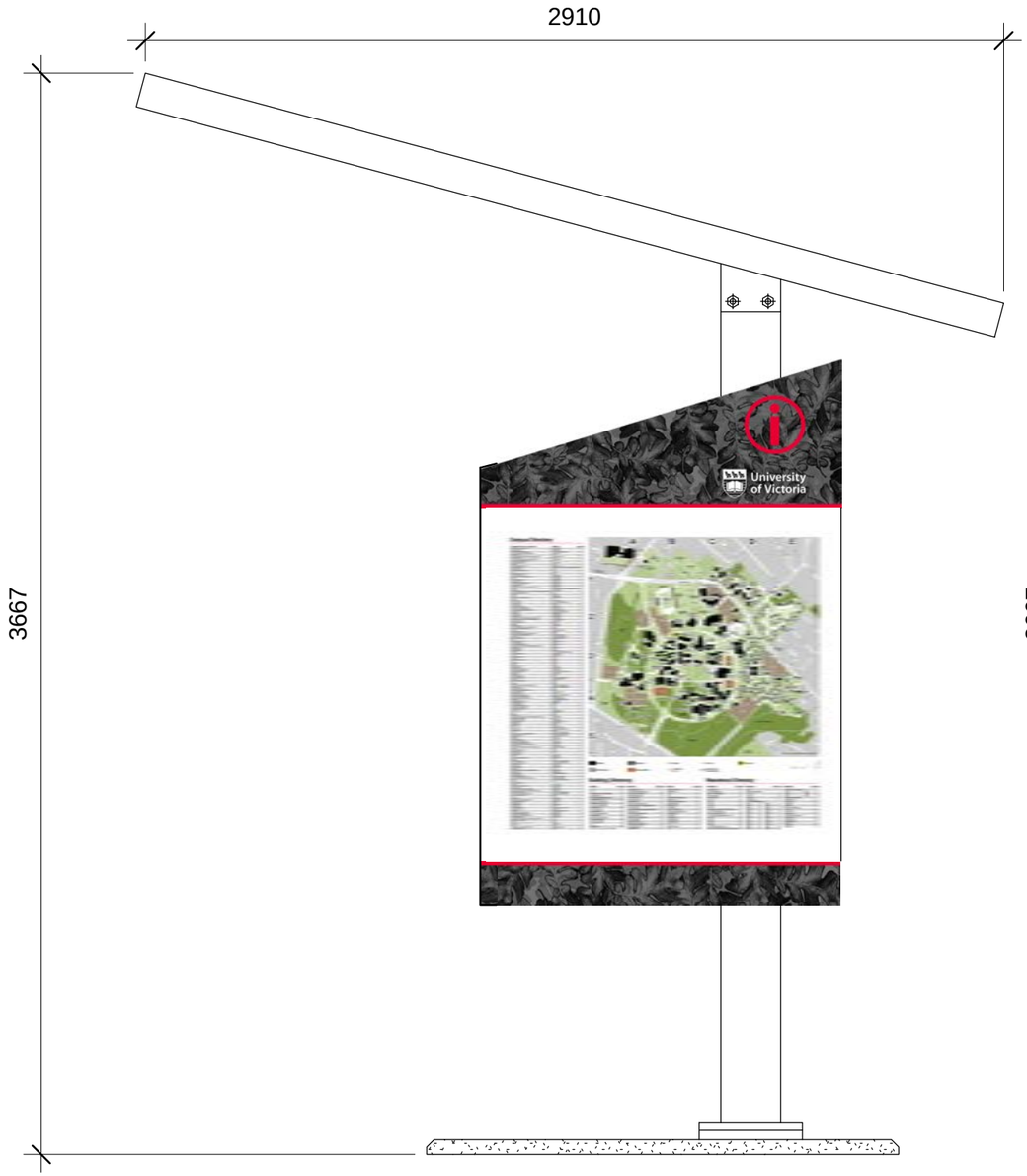
University of Victoria Logo, horizontal standard

full colour

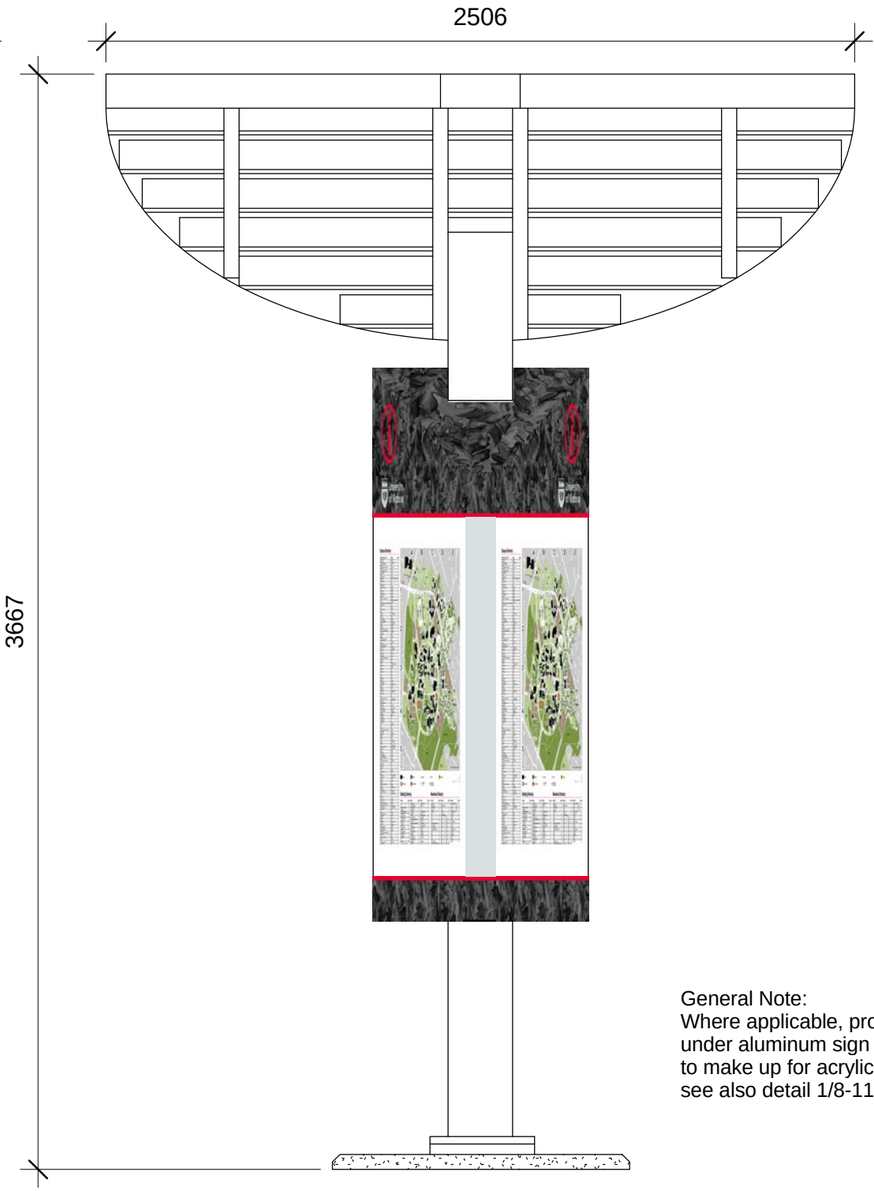
reverse monochromatic - shown against background for clarity

project:	Campus Wayfinding	sign:	Sign No. 8 Pedestrian Map Directory Kiosk	sheet number:	02
number:	FM 09-8567	sheet name:	typography, colours and pictograms		
issue date:	April 1, 2019	scale:	as noted		

University of Victoria



side elevation scale 1:20



front elevation scale 1:20

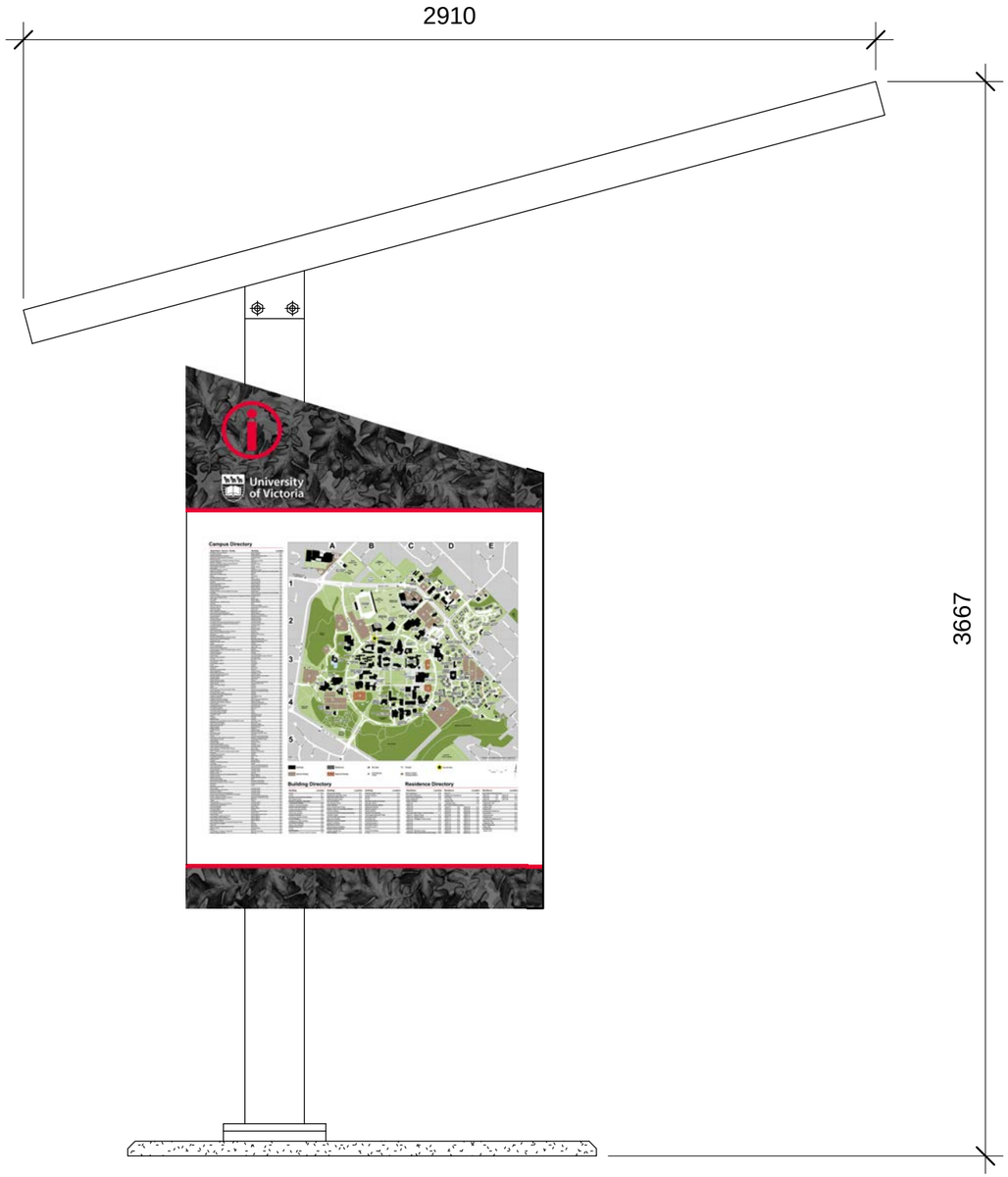
General Note:
Where applicable, provide 6.4mm thick aluminum spacer under aluminum sign panels
to make up for acrylic panel thickness
see also detail 1/8-11

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

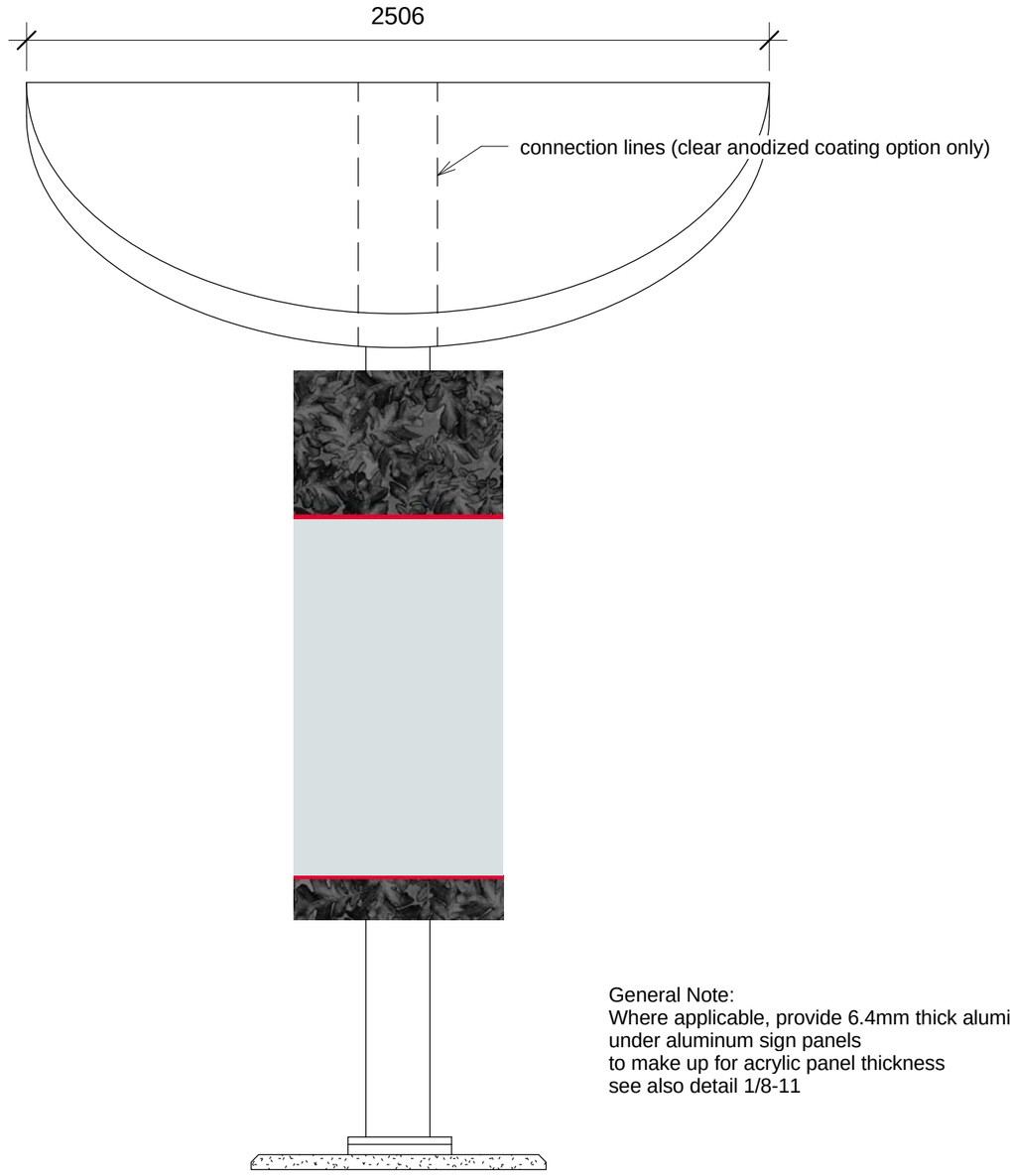
sign: Sign No. 8 Pedestrian Map Directory Kiosk
sheet name: sign design - overview
scale: as noted

sheet number: 03

University of Victoria



side elevation scale 1:20



back elevation scale 1:20

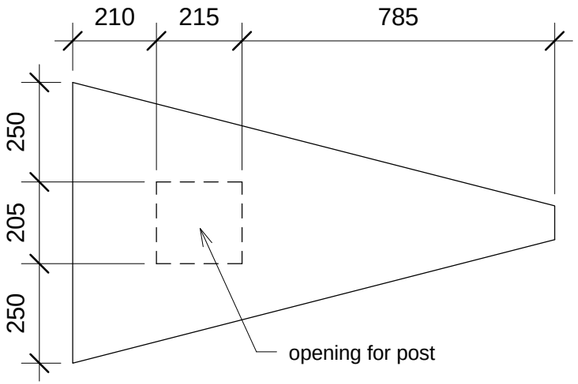
General Note:
Where applicable, provide 6.4mm thick aluminum spacer
under aluminum sign panels
to make up for acrylic panel thickness
see also detail 1/8-11

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

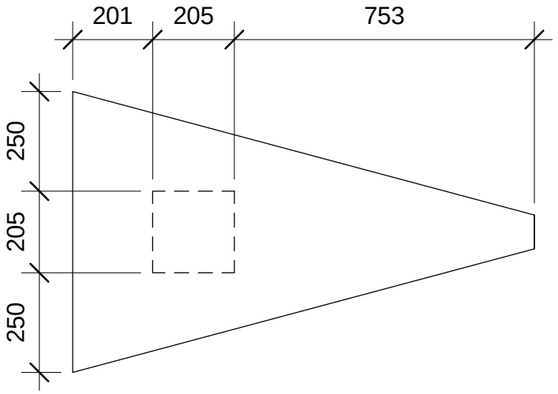
sign: Sign No. 8 Pedestrian Map Directory Kiosk
sheet name: sign design - overview cont.
scale: as noted

sheet number: 04

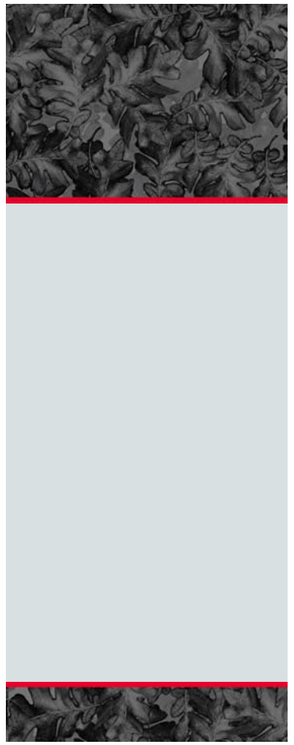
University of Victoria



top panel:
3.2mm thick aluminum with
digitally printed vinyl (Gary Oak motif)
protected with anti-graffiti,
optically clear overlaminate.

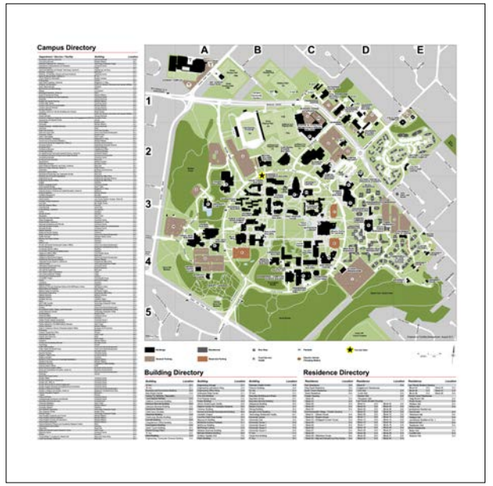


bottom panel:
3.2 mm thick aluminum with
clear anodized coating



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 festened to substrate.
5) Directory map shown for reference only. directory map with all associated texts and pictograms to be provided in digital format by University of Victoria
6) Manufacturer to confirm all dimensions prior to fabrication.

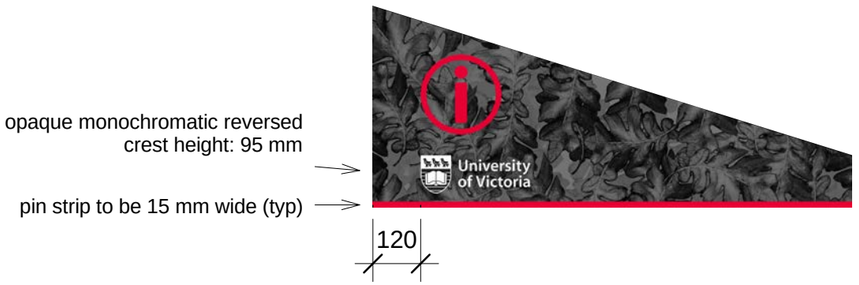
General note:
Manufacturer to confirm all dimensions
prior to fabrication.

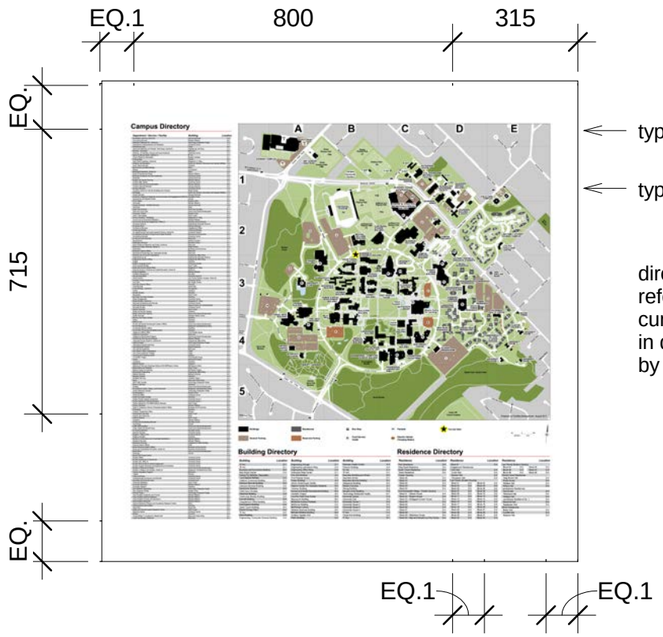
project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

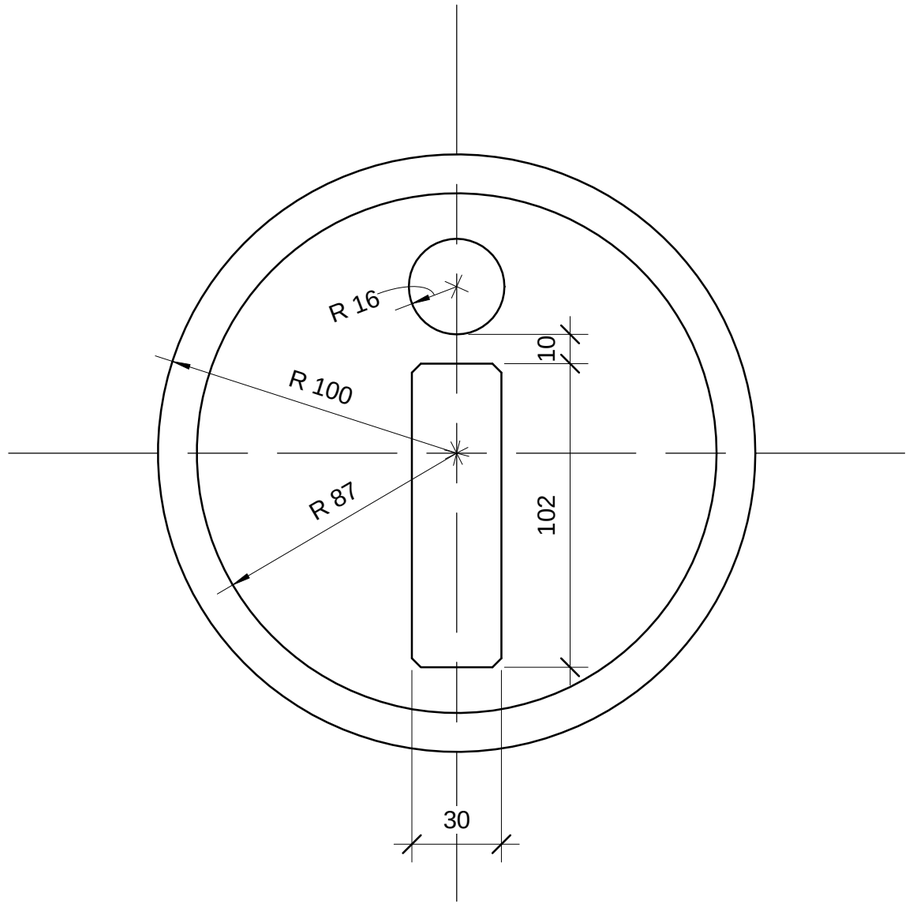
sign: Sign No. 8 Pedestrian Map Directory Kiosk
sheet name: sign design - graphic design details
scale: as noted

sheet number: 05

University of Victoria







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

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

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

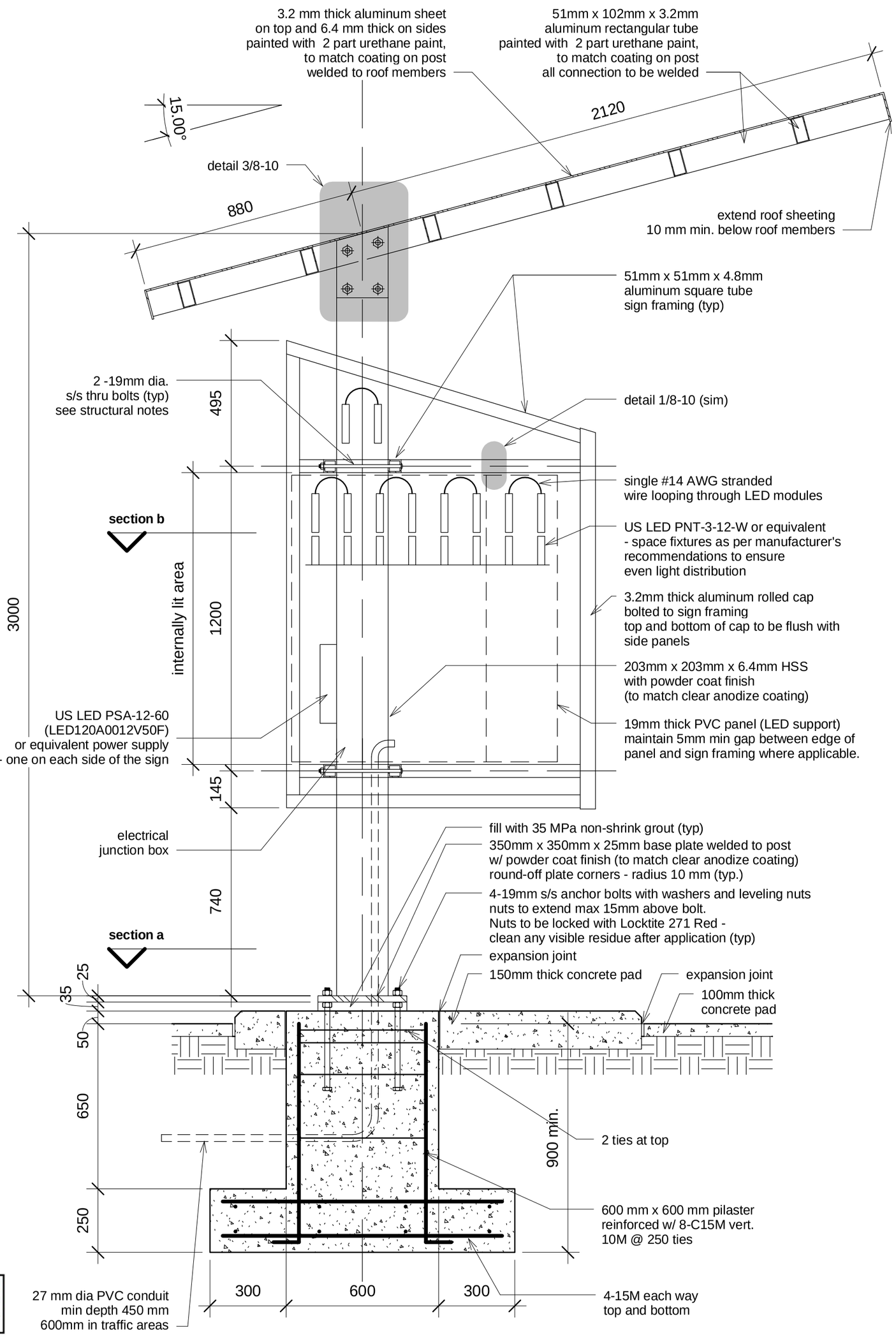
sheet number: 06

University of Victoria

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

sign: Sign No. 8 Pedestrian Map Directory Kiosk
sheet name: sign construction - cross section
scale: as noted

sheet number: 07



long section scale 1:15

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

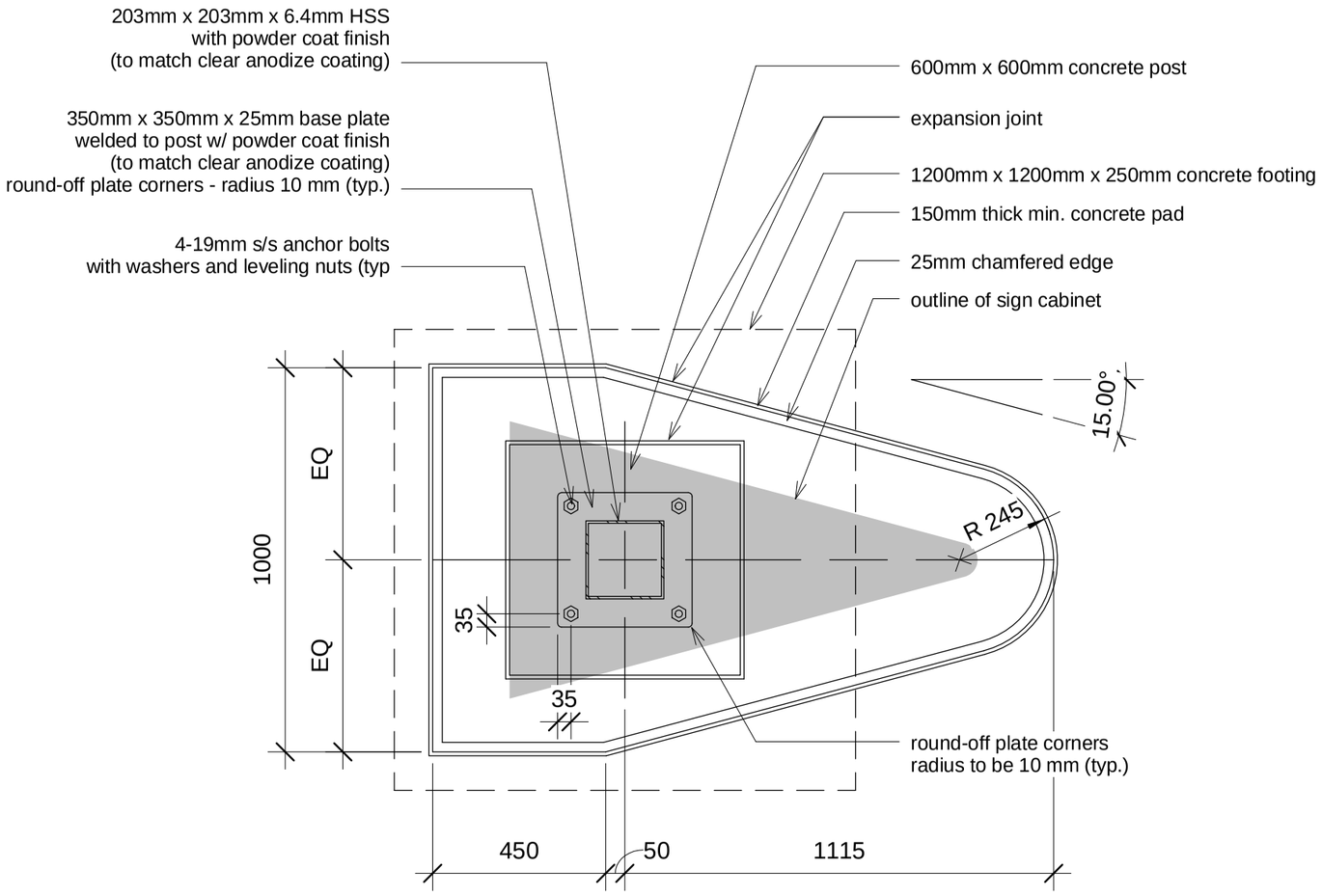
1) provide ventilation holes as required
2) US LED PSA-12-60 power supply to provide source of power to a maximum of 50 MegaBright 12 LED Modules
3) Sign must have a CSA label as an assembly

University of Victoria

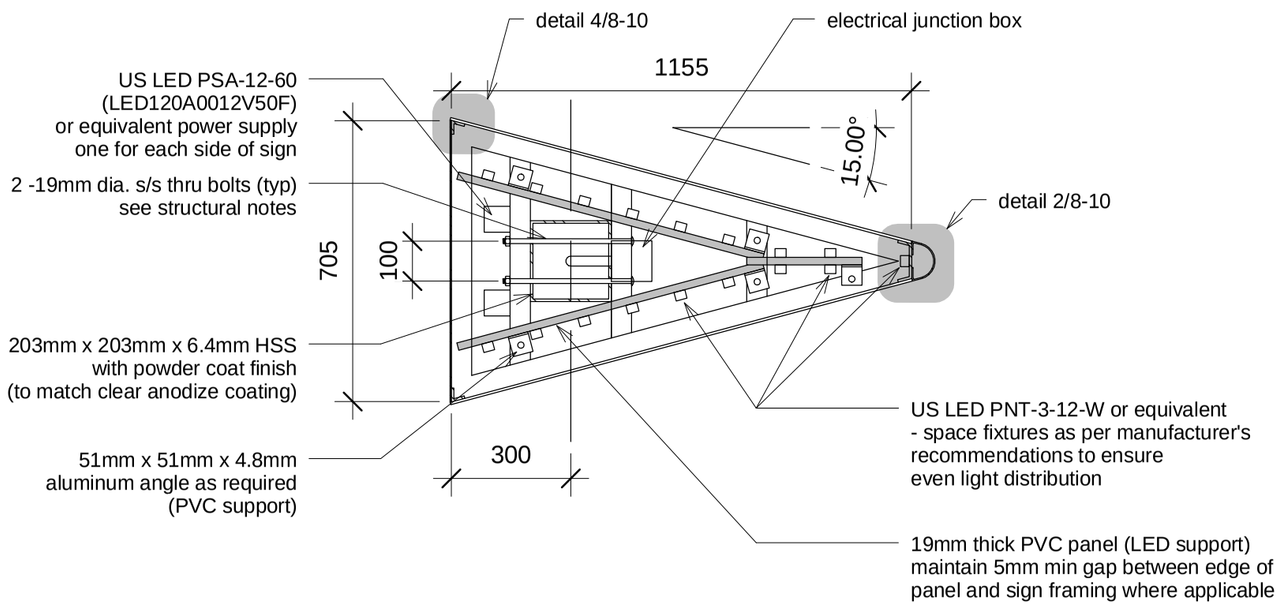
project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 8 Pedestrian Map Directory Kiosk
sheet name: sign construction - section plans
scale: as noted

sheet number: 08



section a scale 1:15



section b scale 1:15

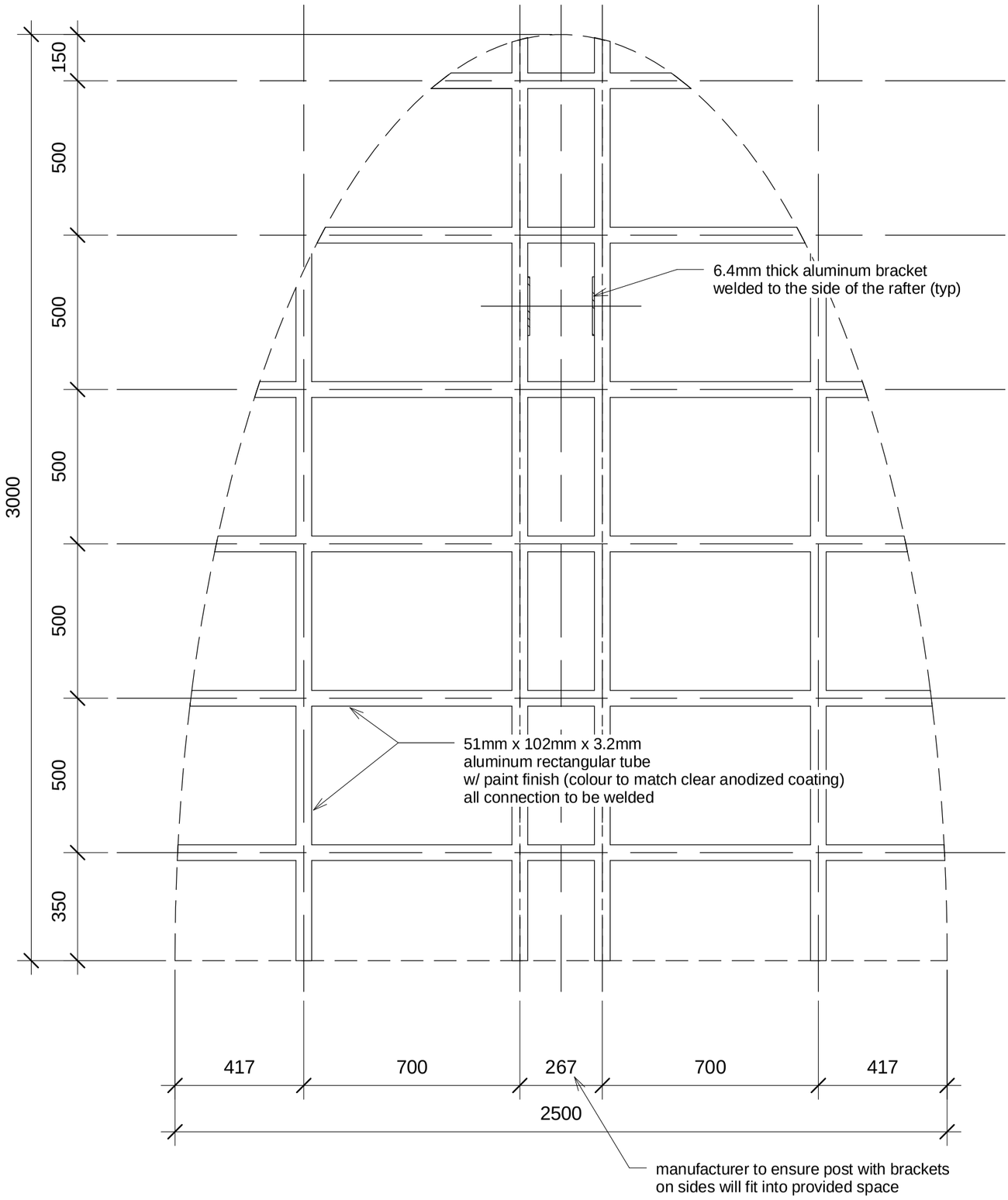
General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.

University of Victoria

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

sign: Sign No. 8 Pedestrian Map Directory Kiosk
sheet name: sign construction - painted canopy plan and details
scale: as noted

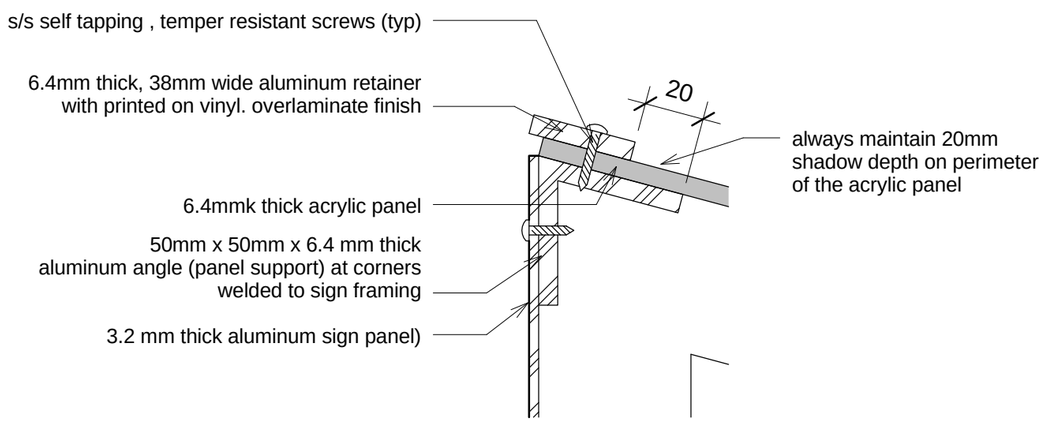
sheet number: 09



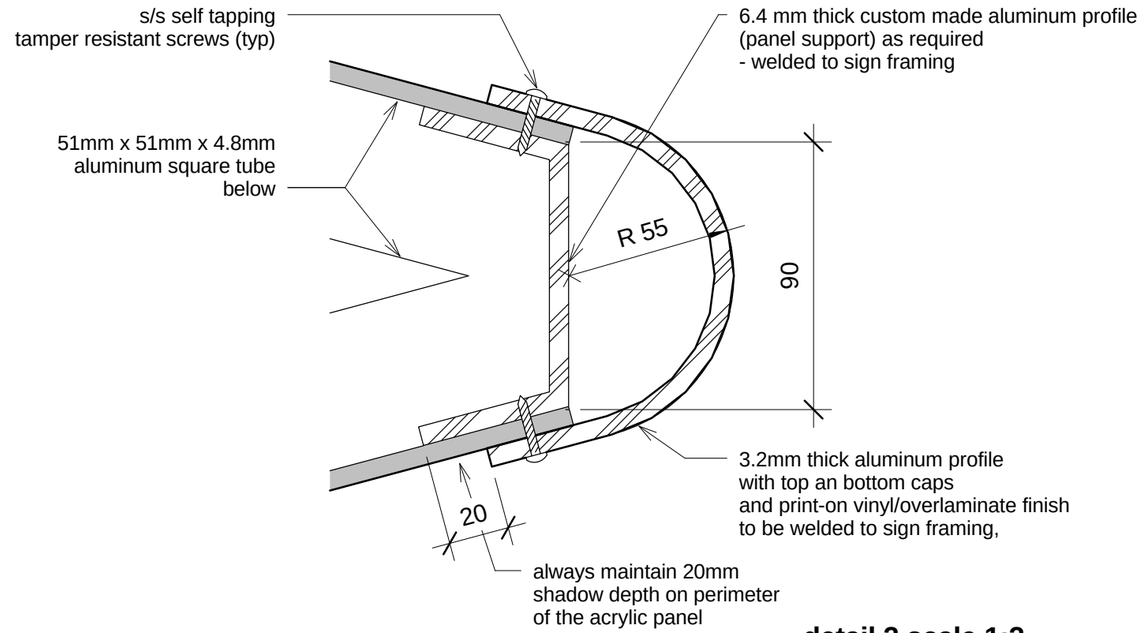
roof (paint finish option)
plan scale 1:15

University of Victoria

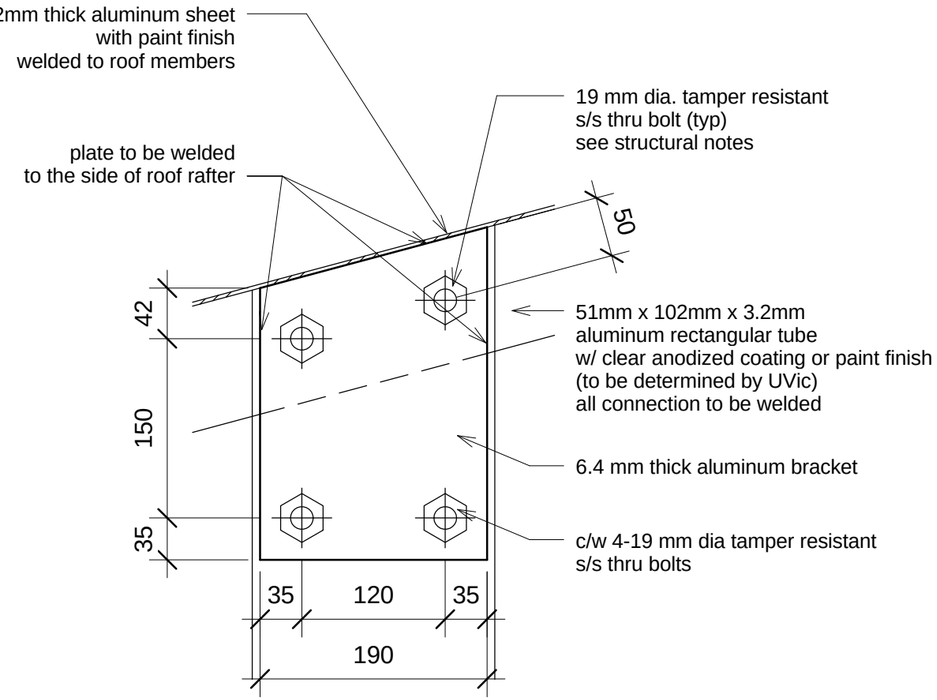
General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.



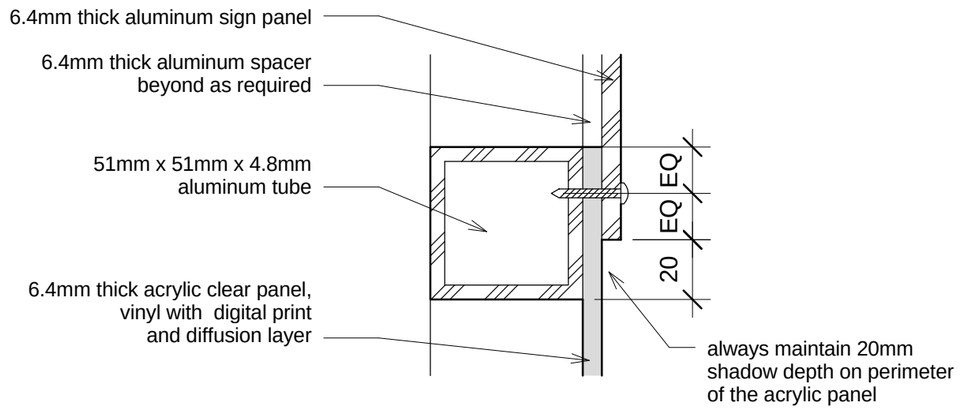
detail 4 scale 1:2



detail 2 scale 1:2



detail 3 scale 1:5



detail 1 scale 1:2

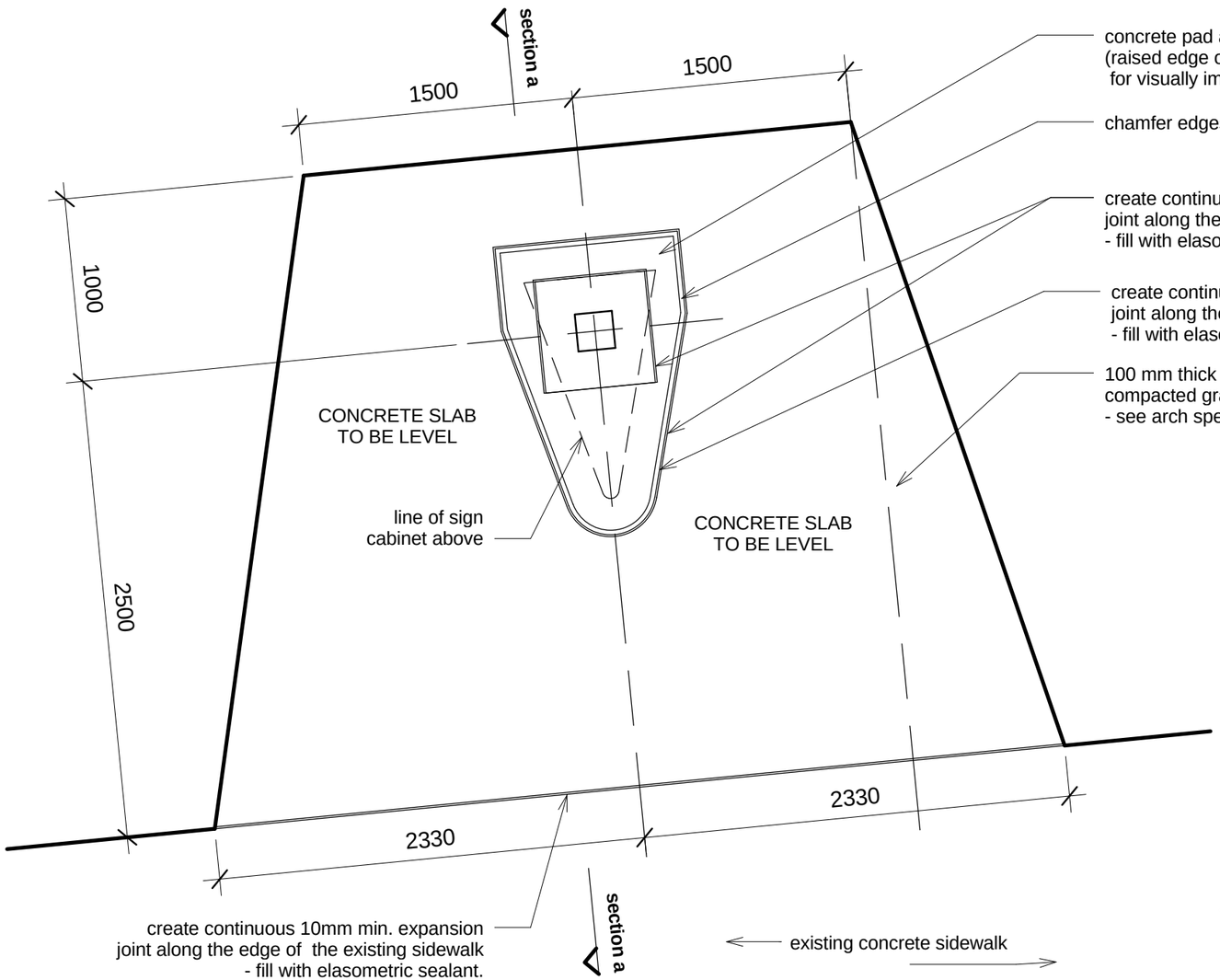
General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.

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

sign: Sign No. 8 Pedestrian Map Directory Kiosk
sheet name: sign construction - details
scale: as noted

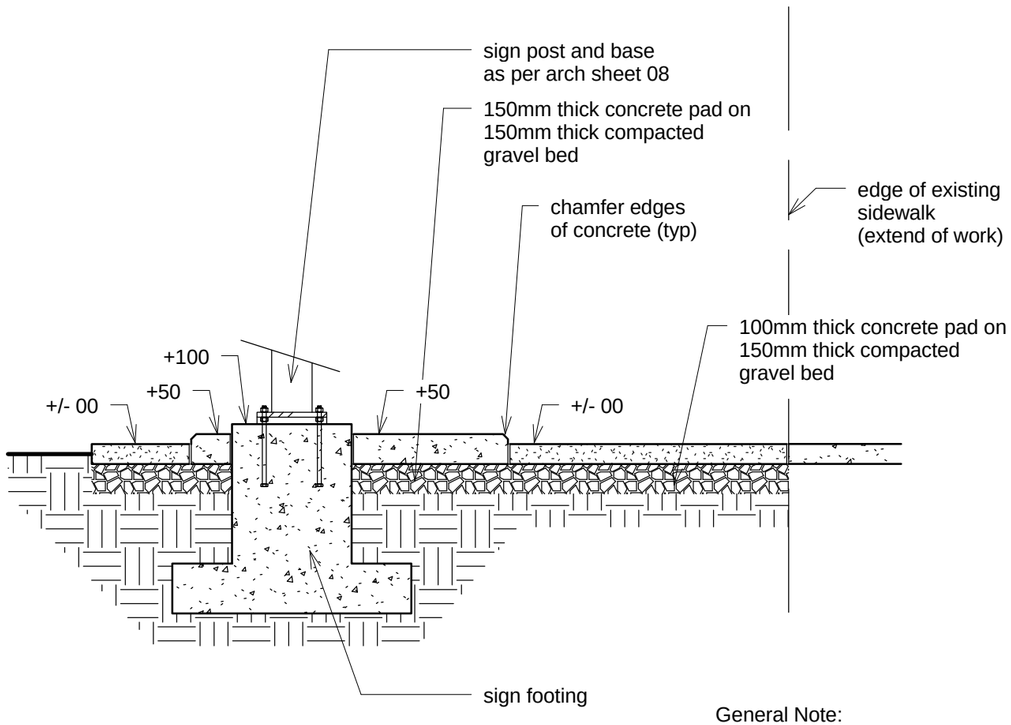
sheet number: 10

University of Victoria



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



1. plan view scale 1:30

2. section a-a scale 1:30

General Note:
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project:	Campus Wayfinding
number:	FM 09-8567
issue date:	April 1, 2019
sign:	Sign No. 8 Pedestrian Map Directory Kiosk
sheet name:	typical concrete slab
scale:	as noted
sheet number:	11

University of Victoria

GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan
Form and placement of stickers on signs is to be coordinated with University of Victoria
2. Fasteners:
    foundation (anchor bolts):
    bolts: Fastenal part #47349 (3/4" s/s threaded)
    washers: Fastenal part #71027 (3/4" s/s wahers)
    nuts: Fastenal part #70717 (3/4" s/s nuts)
    panels:
    security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)
3. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating)
are protected against rusting.
4. Manufacturer to verify all diemnsions 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
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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 the Structural Engineer.
3. The work to be reviewed shall be generally complete.

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and
referenced documents.
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.

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 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.

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 reccomended 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.
4. The sign manufacturer shall provide an electrical shop drawings indicating
   input power requirements and a schematic wiring diagram for the sign.

Sheet List	
Sheet Number	Sheet Name
01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design - overview
04	sign design - graphic design details
05	sign construction - section
06	sign construction - plans and sections
07	sign construction - details
08	sign construction - push thru pictogram
09	general notes

Sign No. 9
Pedestrian - Major Directional

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

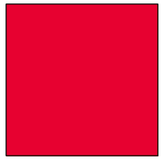
sign:
sheet name: Sign No. 9 - Major Directional
title sheet and drawing list
scale: as noted

sheet number: 01

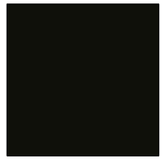
University of Victoria

core colours

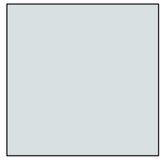
clear anodized coating
application: sign structure



PANTONE 185 C
application:
pinstrip, arrows



PANTONE 426 C
application: text,
crest - monochromatic



PANTEONE 7541 C
application: background

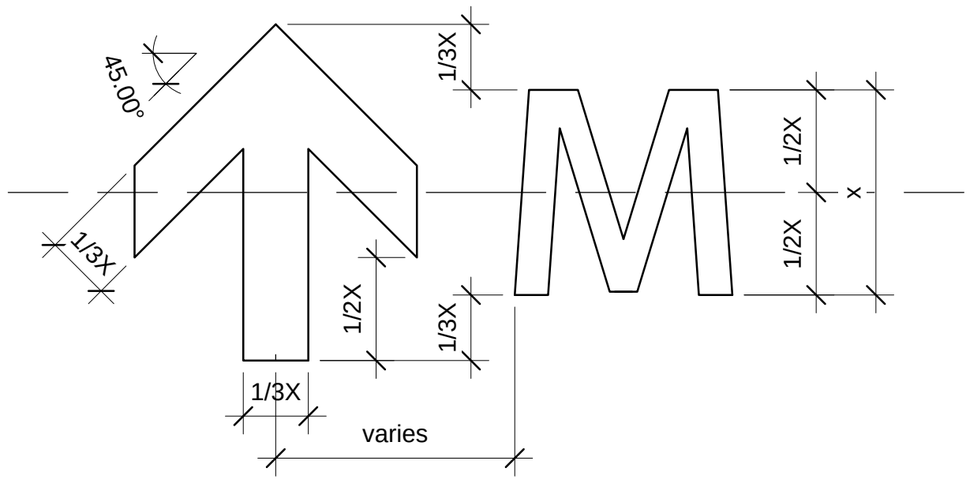
gary oak motif - digital file is to be delivered
by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height

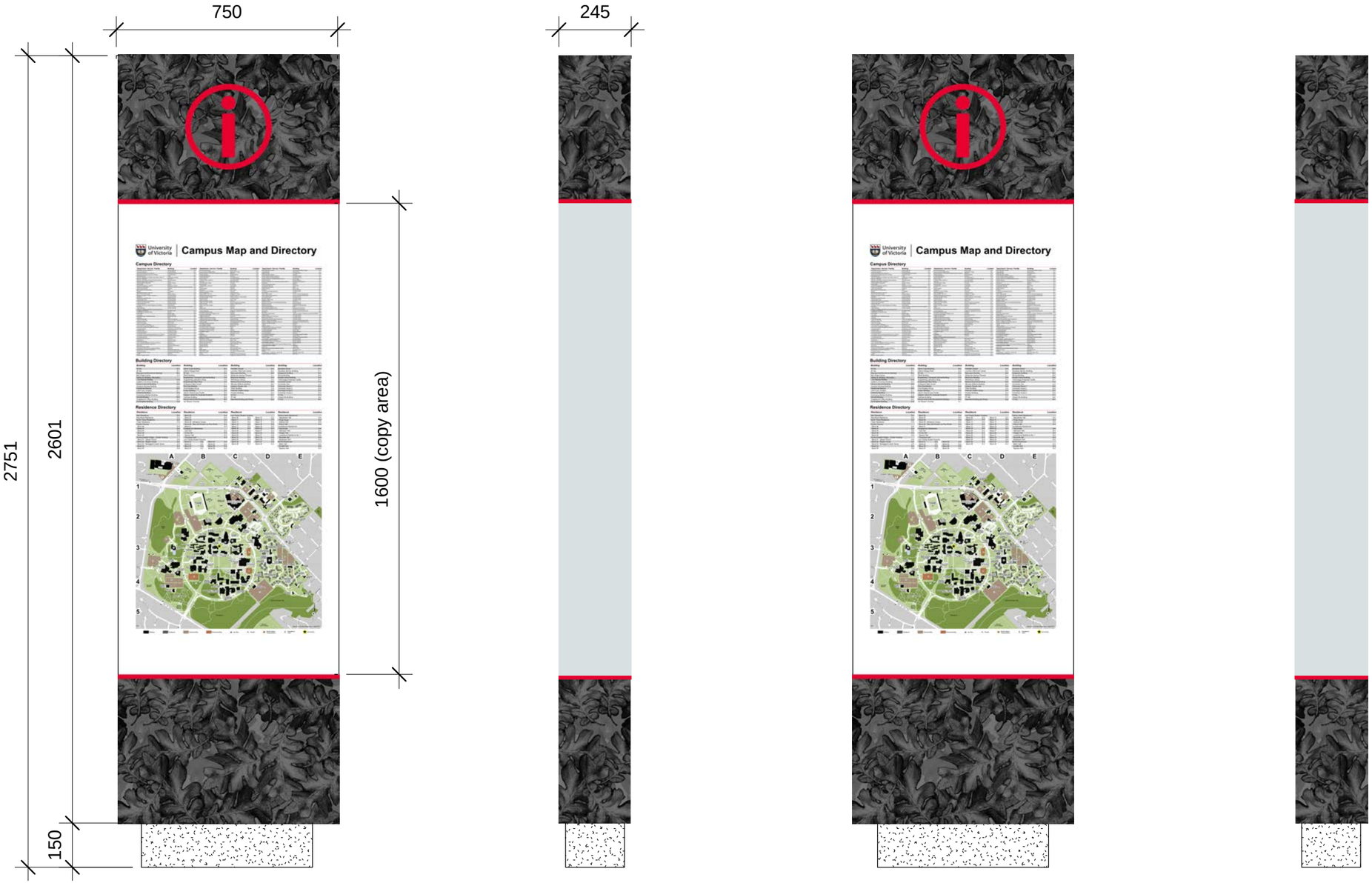


University of Victoria Logo, horizontal standard

full colour

reverse monochromatic - shown against background for clarity

project:	Campus Wayfinding	sign:	Sign No. 9 - Major Directional	sheet number:	02	University of Victoria
number:	FM 09-8567	sheet name:	typography, colours and pictograms			
issue date:	April 1, 2019	scale:	as noted			



back **side** **front** **side** **scale 1:15**

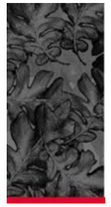
General Note:
Where applicable, provide 6.4mm thick aluminum spacer under aluminum sign panels to make up for acrylic panel thickness
see also detail 3/9-07

project:	Campus Wayfinding
number:	FM 09-8567
issue date:	April 1, 2019
sign:	Sign No. 9 - Major Directional
sheet name:	sign design - overview
scale:	as noted
sheet number:	03

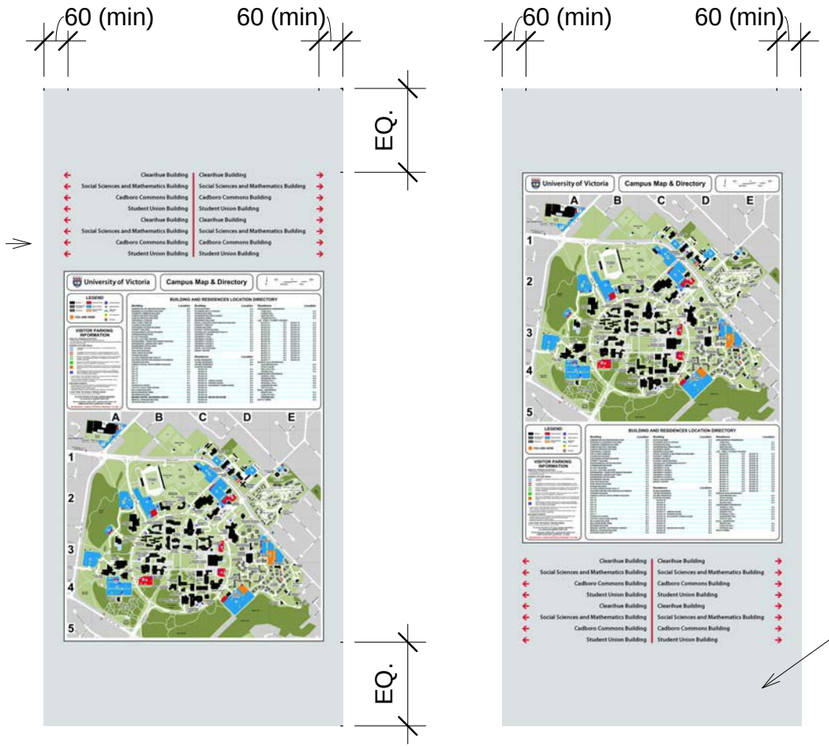
University of Victoria

Digitally printed vinyl protected
with anti-graffiti,
optically clear overlaminate.
Aluminum panel size:
283 mm x 744 mm x 3.2 mm

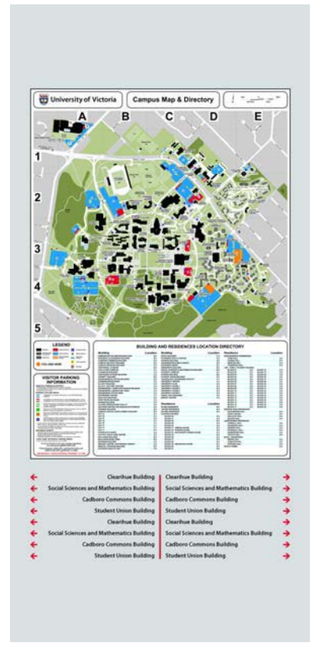
Digitally printed vinyl protected
with anti-graffiti,
optically clear overlaminate.
Aluminum panel size:
270 mm x 506 mm x 3.2 mm



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



Digitally printed vinyl protected
with anti-graffiti,
optically clear overlaminate.
For aluminum panel size see
sign construction drawings



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.

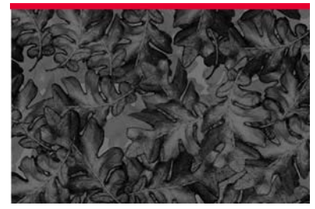
2nd surface prints:
CAV-50 reverse print - i/w/i (2nd surface)
Overlaminate: 3M 8914, Avery DOL 6060
or equivalent (first surface)

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 festened 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 conenctions.

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

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



scale 1:15 **sides** **front**

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

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

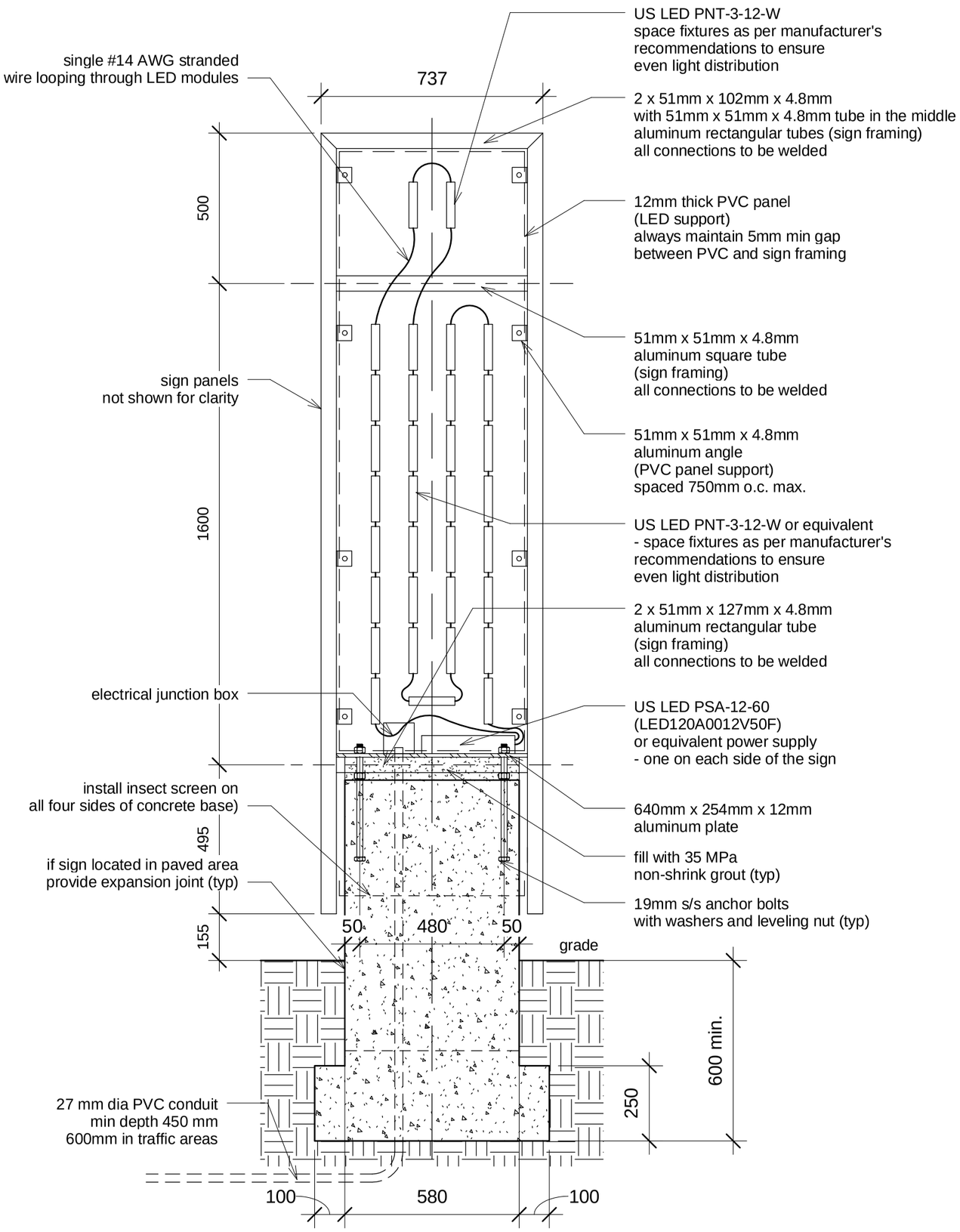
sheet number: 04

University of Victoria

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

sign:
sheet name: Sign No. 9 - Major Directional
scale: sign construction - section
as noted

sheet
number: 05



1) provide ventilation holes as required
2) US LED PSA-12-60power 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 diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.

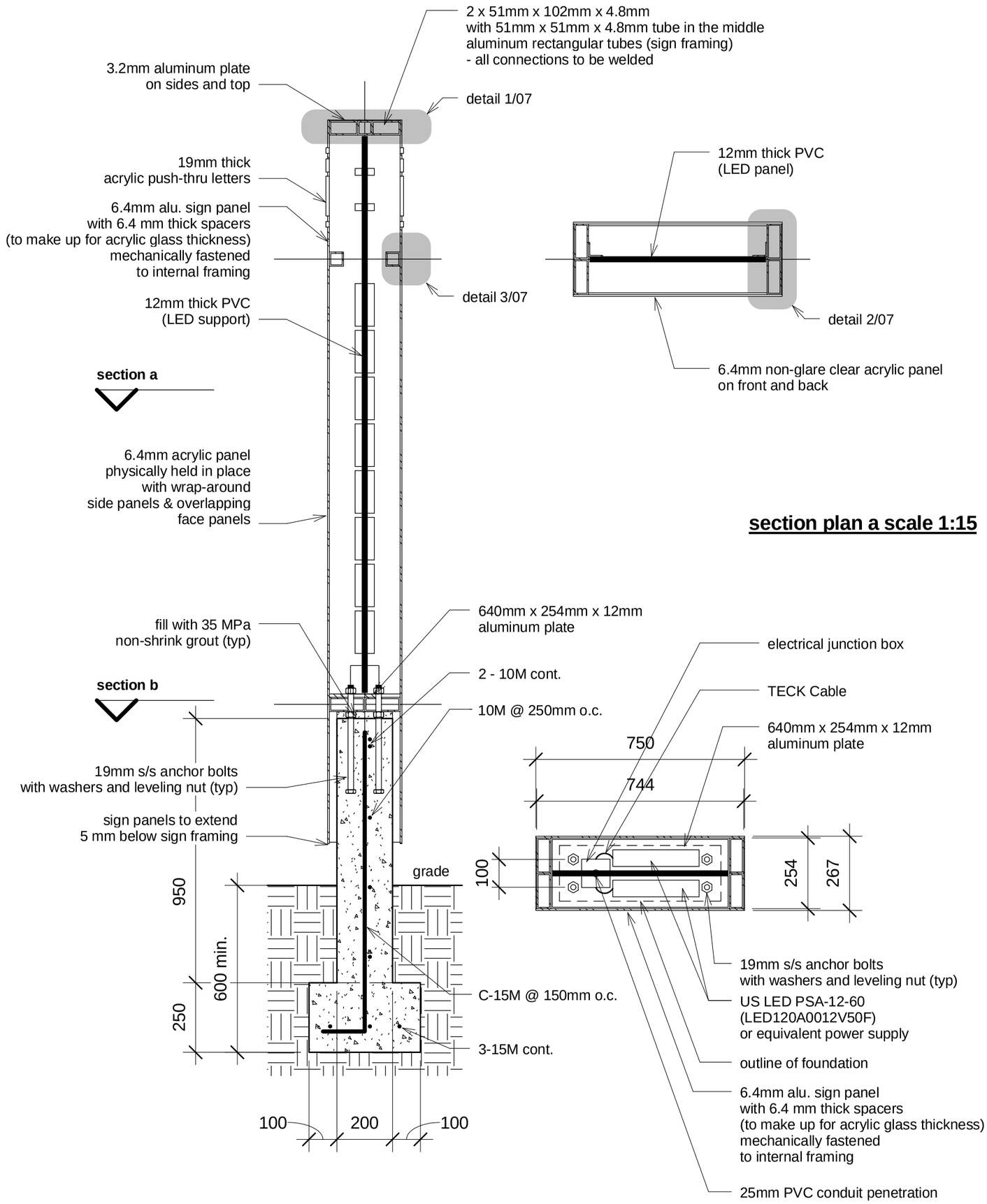
University of Victoria

long section scale 1:15

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

sign: Sign No. 9 - Major Directional
sheet name: sign construction - plans and sections
scale: as noted

sheet number: 06



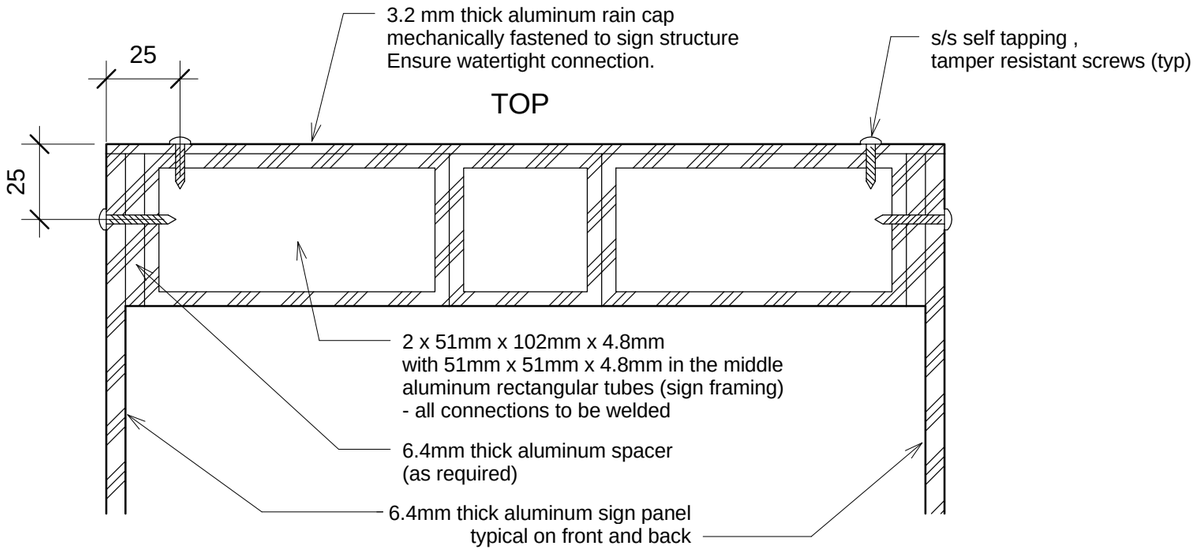
section plan a scale 1:15

cross section scale 1:15

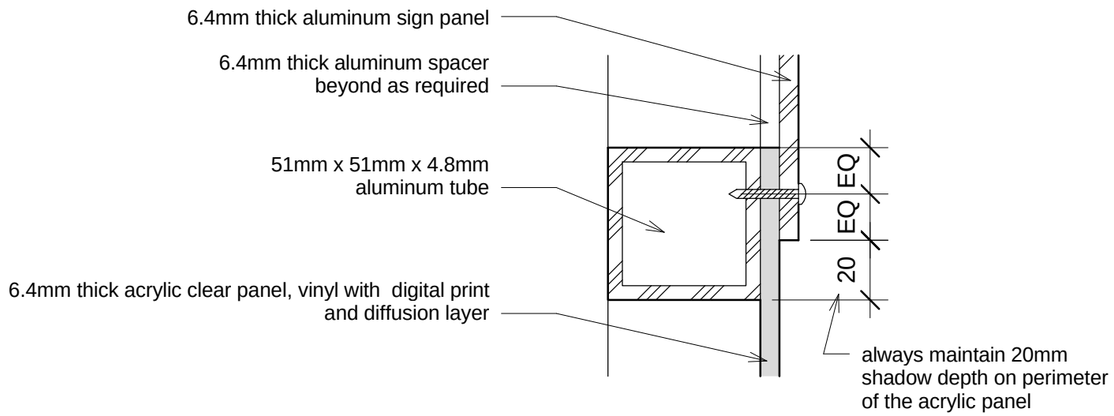
section plan b scale 1:15

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

University of Victoria



detail 1 scale 1:2



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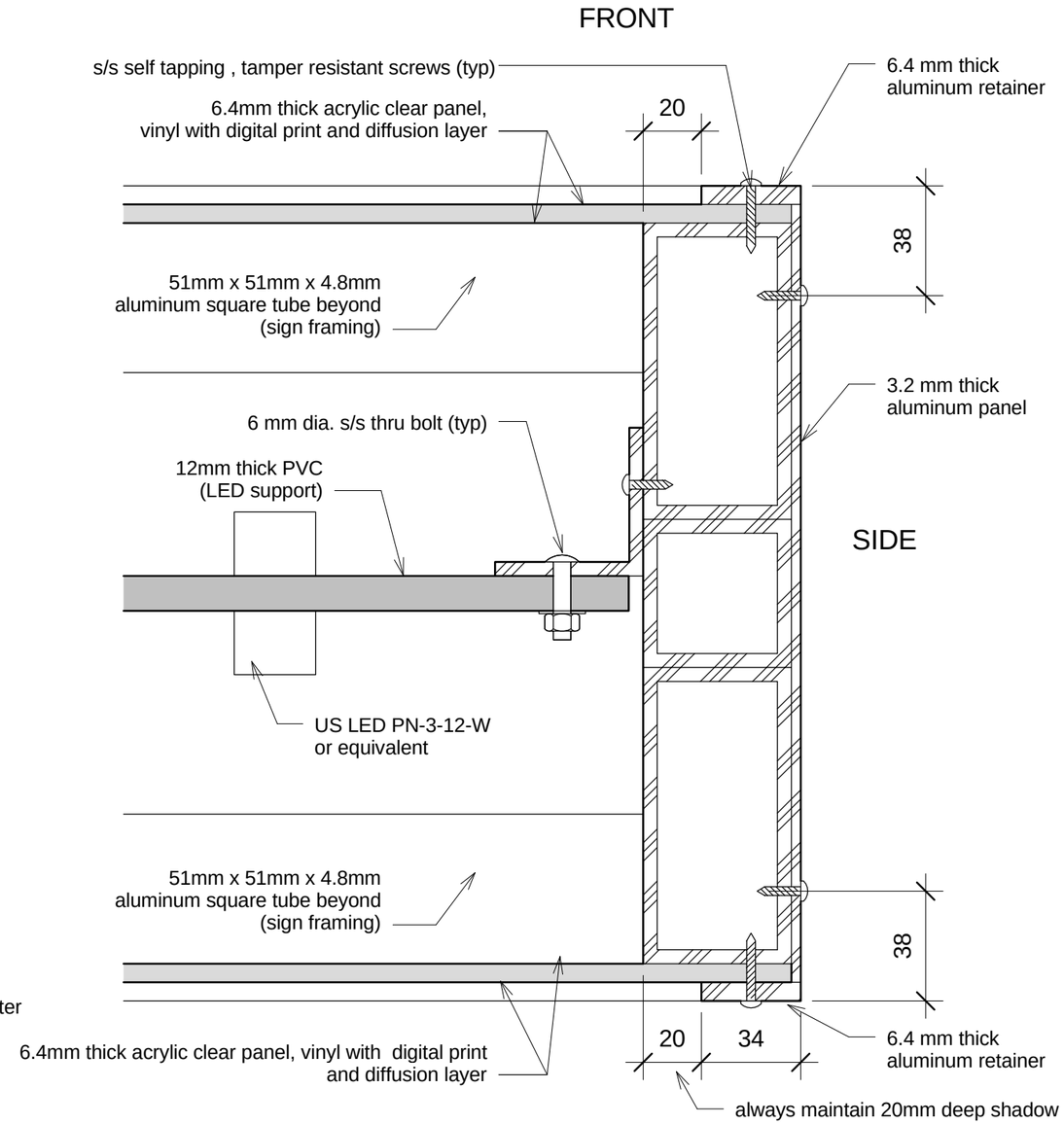
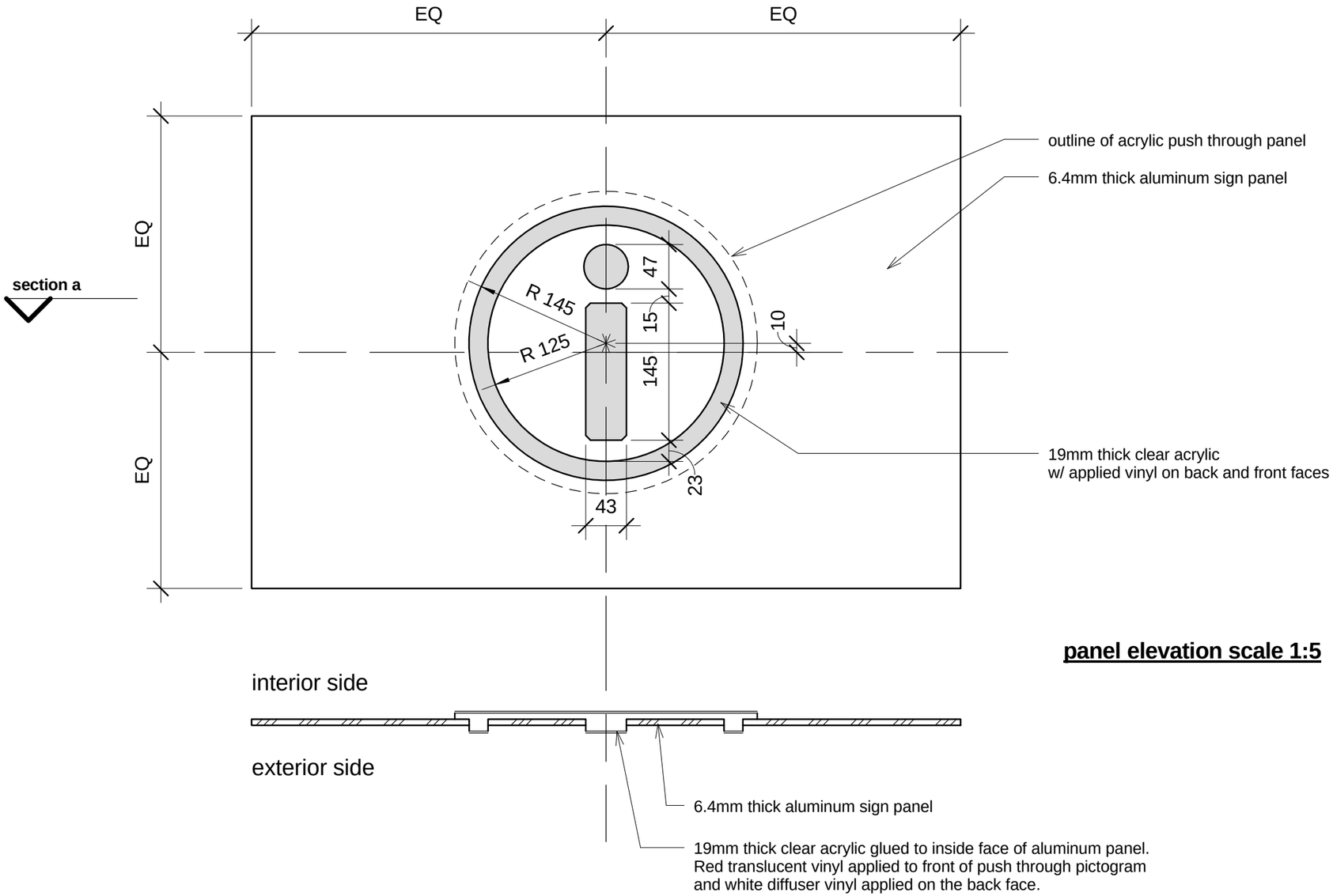
detail 3 scale 1:2



detail 2 scale 1:2

project:	Campus Wayfinding	sign:	Sign No. 9 - Major Directional	sheet number:	07
number:	FM 09-8567	sheet name:	sign construction - details		
issue date:	April 1, 2019	scale:	as noted		

University of Victoria



panel elevation scale 1:5

section a scale 1:5

General Note:
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project:	Campus Wayfinding	sign:	Sign No. 9 - Major Directional	sheet number:	08
number:	FM 09-8567	sheet name:	sign construction - push thru pictogram		
issue date:	April 1, 2019	scale:	as noted		

University of Victoria

GENERAL NOTES

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panels:
security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)
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3. Cover to reinforcing steel to be 50mm uno.
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STRUCTURAL NOTES (cont)

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3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
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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.

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5. Visible connection bolts shall be "Pentagon" tamper resistant bolts, with "Pentagon" nuts as
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Anchor bolts to be secured with "Pentagon" security nuts.

ELECTRICAL NOTES

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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.
4. The sign manufacturer shall provide an electrical shop drawings indicating
input power requirements and a schematic wiring diagram for the sign.

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

sign: Sign No. 9 - Major Directional
sheet name: general notes
scale: as noted

sheet number: 09

University of Victoria

Sheet List	
Sheet Number	Sheet Name
01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design - overview
04	graphic design details
05	sign construction - sections
06	sign construction - details
07	general notes - structural

Sign No. 10
Pedestrian - Intermediate Directional

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

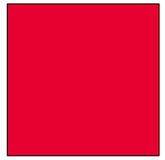
sign: Sign No. 10 - Intermediate Directional
sheet name: title sheet and drawing list
scale: as noted

sheet number: 01

University of Victoria

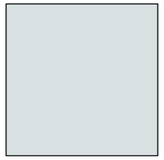
core colours

clear anodized coating



PANTONE 185 C
pinstrip, arrows

PANTONE 426 C
text



PANTEONE 7541 C
background

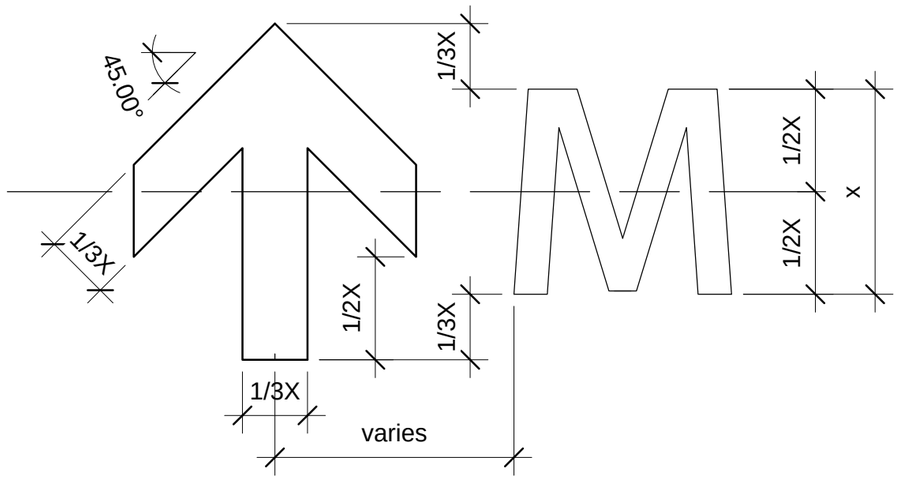
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



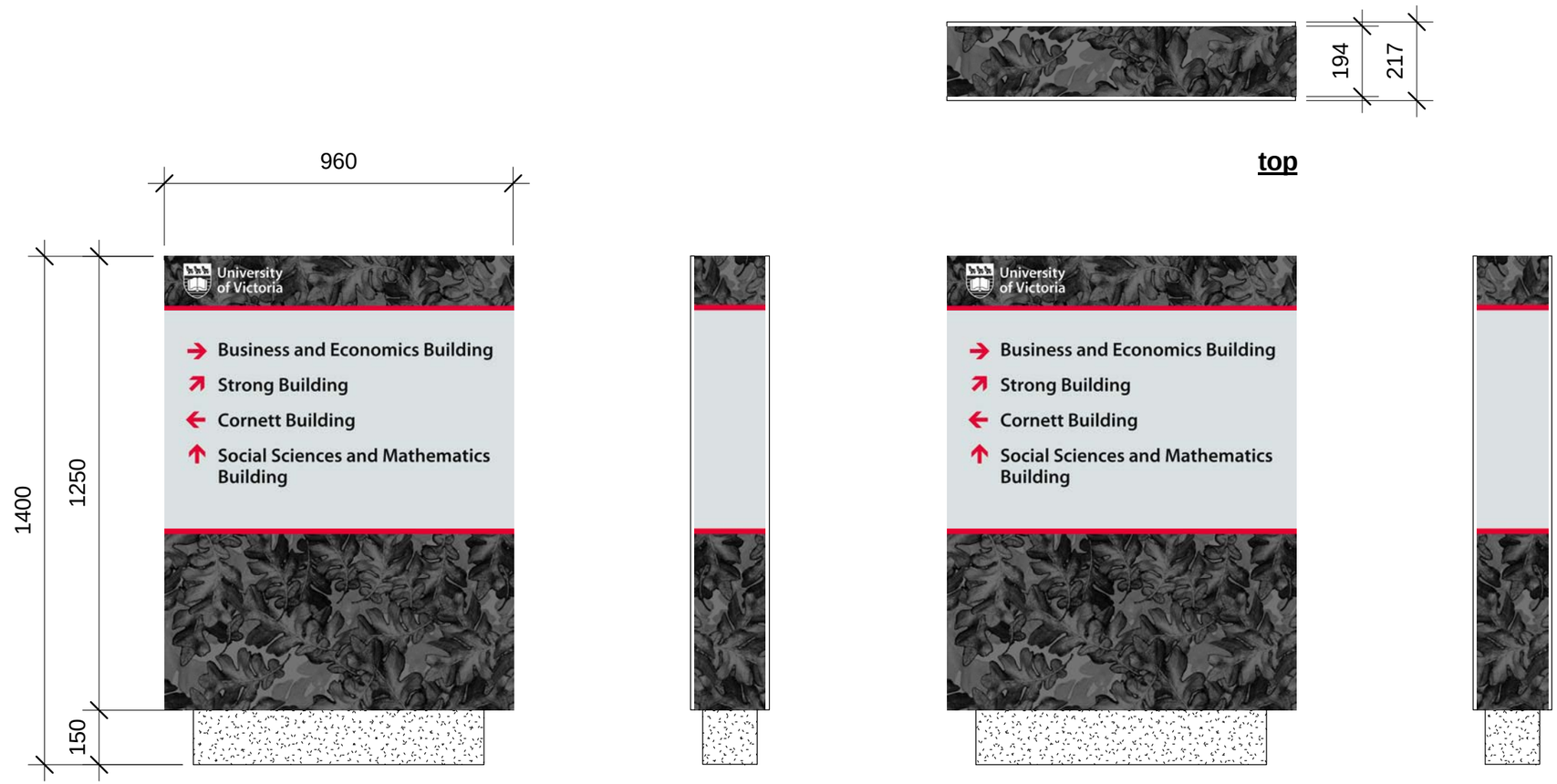
University of Victoria Logo, horizontal standard

full colour

reverse monochromatic - shown against backgroud for clarity

project:	Campus Wayfinding
number:	FM 09-8567
issue date:	April 1, 2019
sign:	Sign No. 10 - Intermediate Directional
sheet name:	typography, colours and pictograms
scale:	as noted
sheet number:	02

University of Victoria



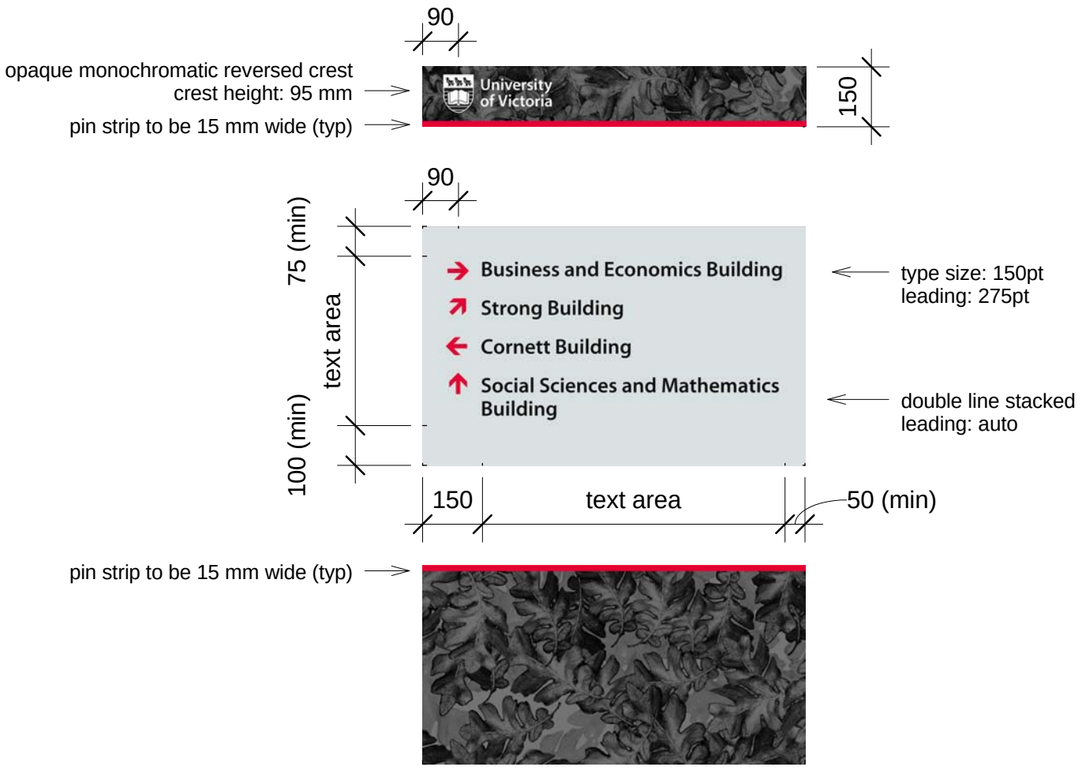
top

back **side** **front** **side**

scale 1:15

project:	Campus Wayfinding	sign:	Sign No. 10 - Intermediate Directional	sheet number:	03
number:	FM 09-8567	sheet name:	sign design - overview		
issue date:	April 1, 2019	scale:	as noted		

University of Victoria



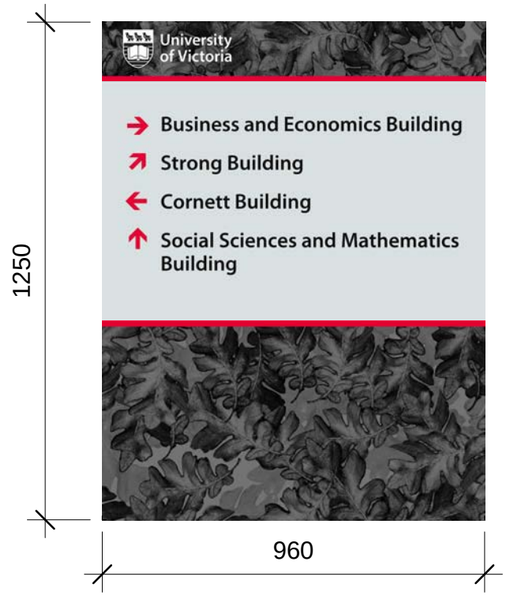
scale 1:15

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 panle 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

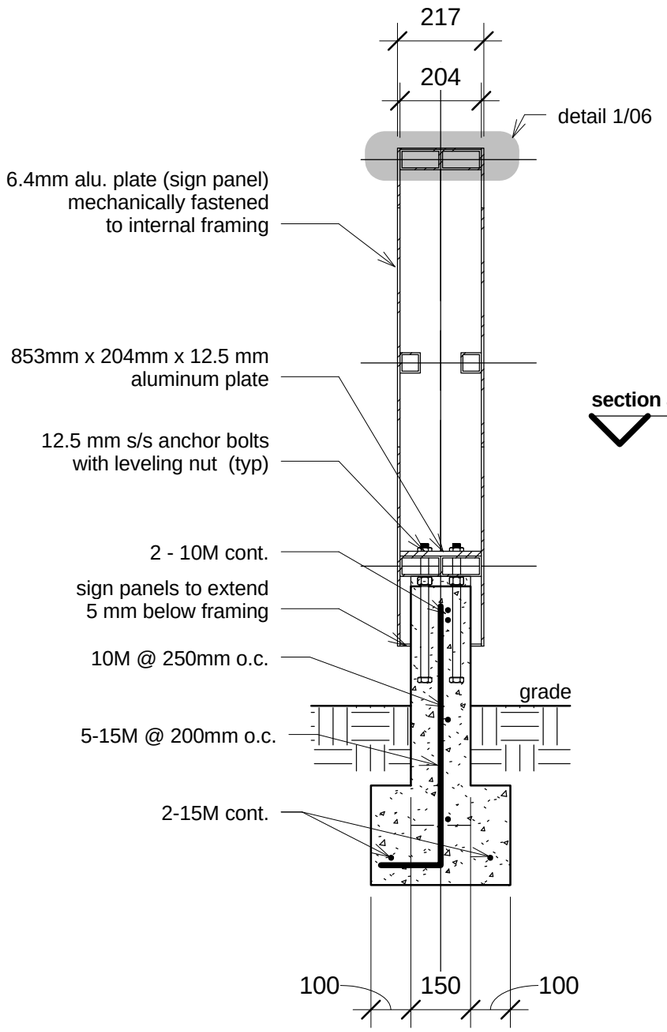


scale 1:15

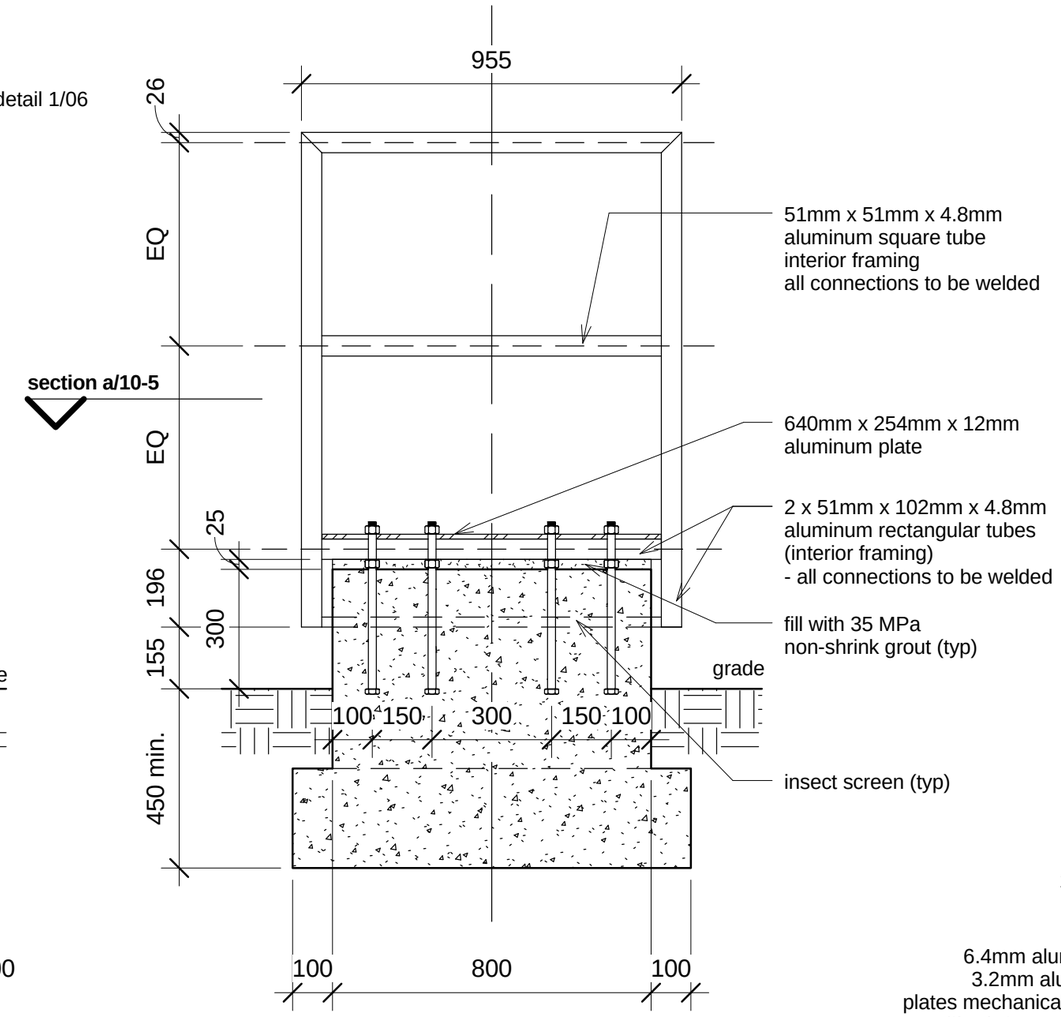
project:	Campus Wayfinding
number:	FM 09-8567
issue date:	April 1, 2019
sign:	Sign No. 10 - Intermediate Directional
sheet name:	graphic design details
scale:	as noted
sheet number:	04

University of Victoria

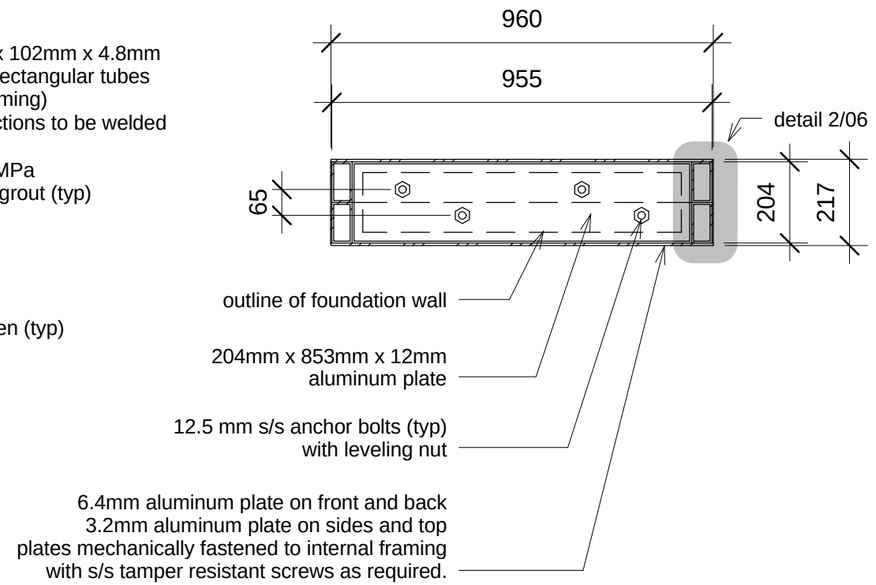
General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.



cross section scale 1:15



long section scale 1:15



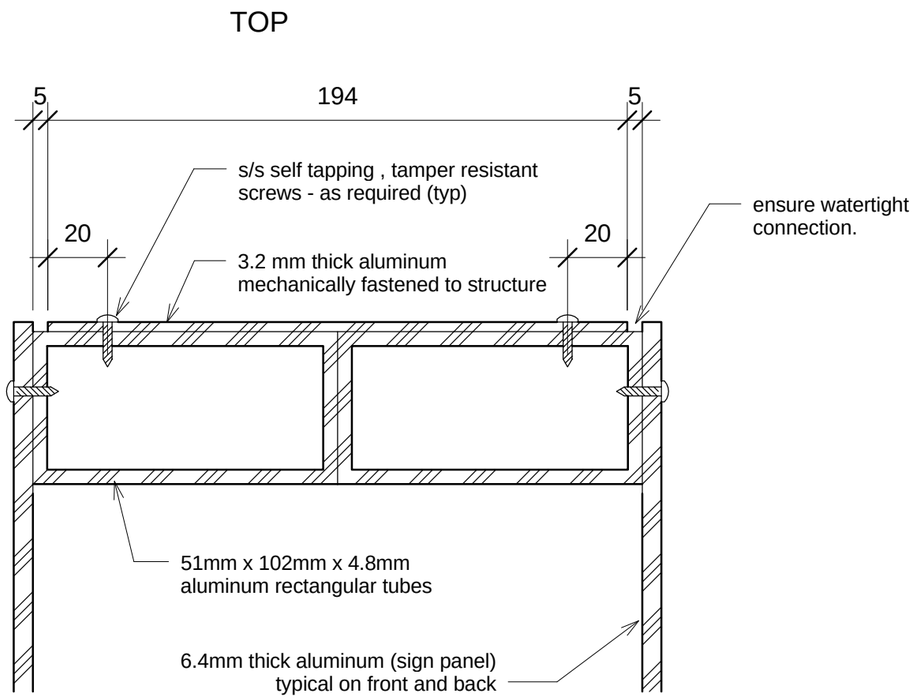
plan section a scale 1:15

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

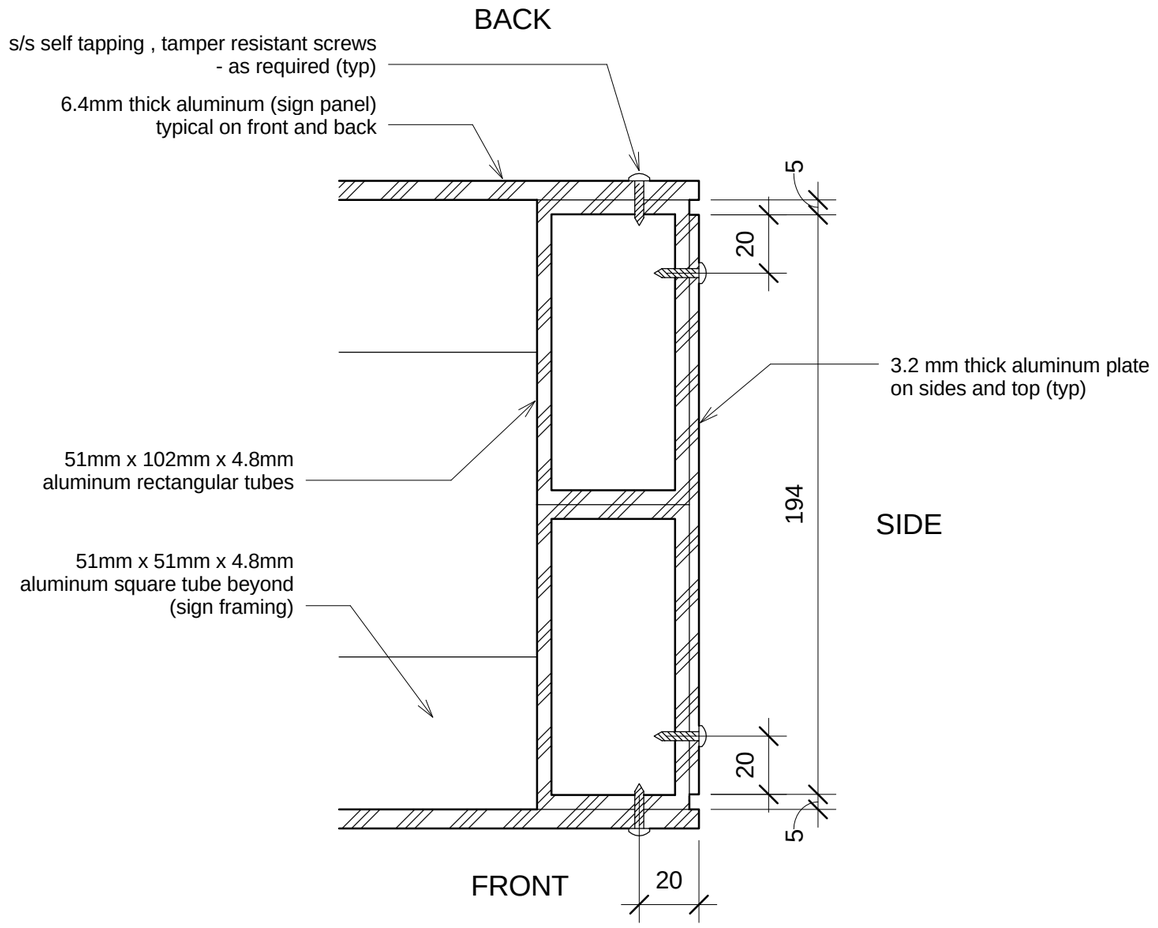
sign: Sign No. 10 - Intermediate Directional
sheet name: sign construction - sections
scale: as noted

sheet number: 05

University of Victoria



section detal 1 scale 1:2



plan detal 2 scale 1:2

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

project:	Campus Wayfinding
number:	FM 09-8567
issue date:	April 1, 2019
sign:	Sign No. 10 - Intermediate Directional
sheet name:	sign construction - details
scale:	as noted
sheet number:	06

University of Victoria

GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan
Form and placement of stickers on signs is to be coordinated with University of Victoria
2. Fasteners:
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)
panels:
security screws panel 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 diemnsions 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.

STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and
referenced documents.
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class
C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate
size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of
concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

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

Sheet List	
Sheet Number	Sheet Name
01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design/graphic design details
04	sign construction - sections and plans
05	general notes

Sign No. 11
Pedestrian - Street Blade

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

sign: Sign No. 11 - Street Blade
sheet name: title sheet and drawing list
scale: as noted

sheet number: 01

University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application: pinstrip, arrows

white
application: text

PANTONE Cool Gray 11 C
application: background

PANTONE Black 3 C
application: background

PMS Black 3C
black anodized
application: blade body

samples of typeface family

Myriad Pro Semi Bold

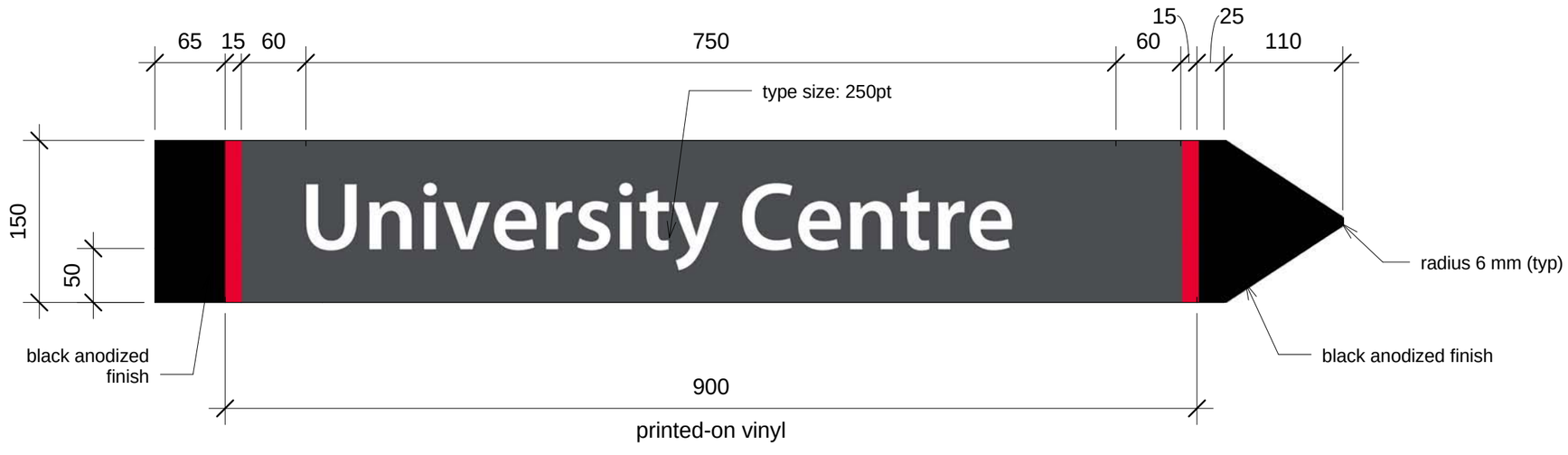
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

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

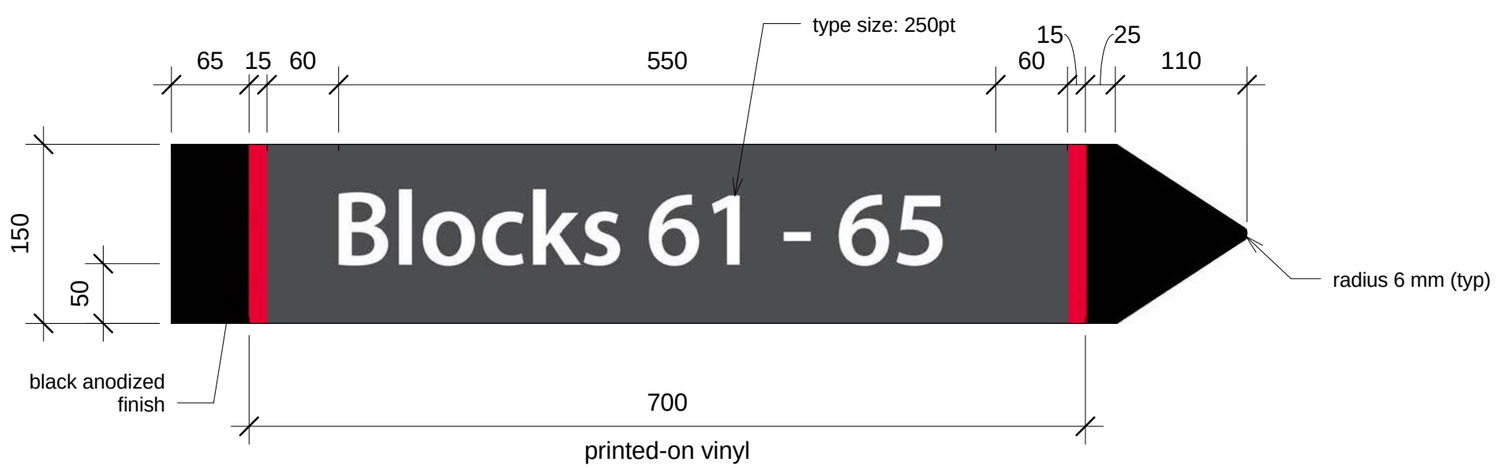
sign:
sheet name: Sign No. 11 - Street Blade
scale: typography, colours and pictograms
as noted

sheet number: 02

University of Victoria



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



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

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

sign: Sign No. 11 - Street Blade
sheet name: sign design/graphic design details
scale: as noted

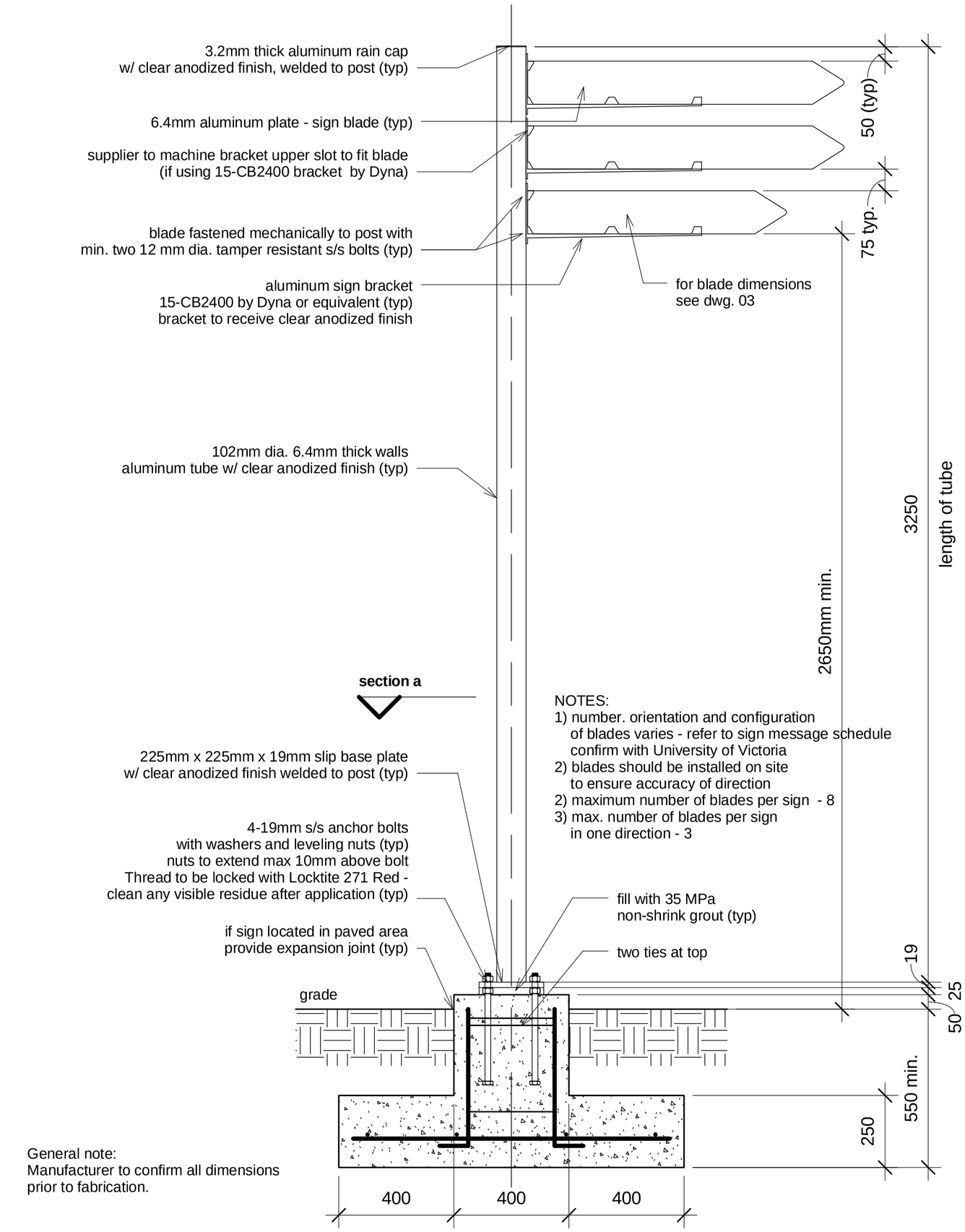
sheet number: 03

University of Victoria

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

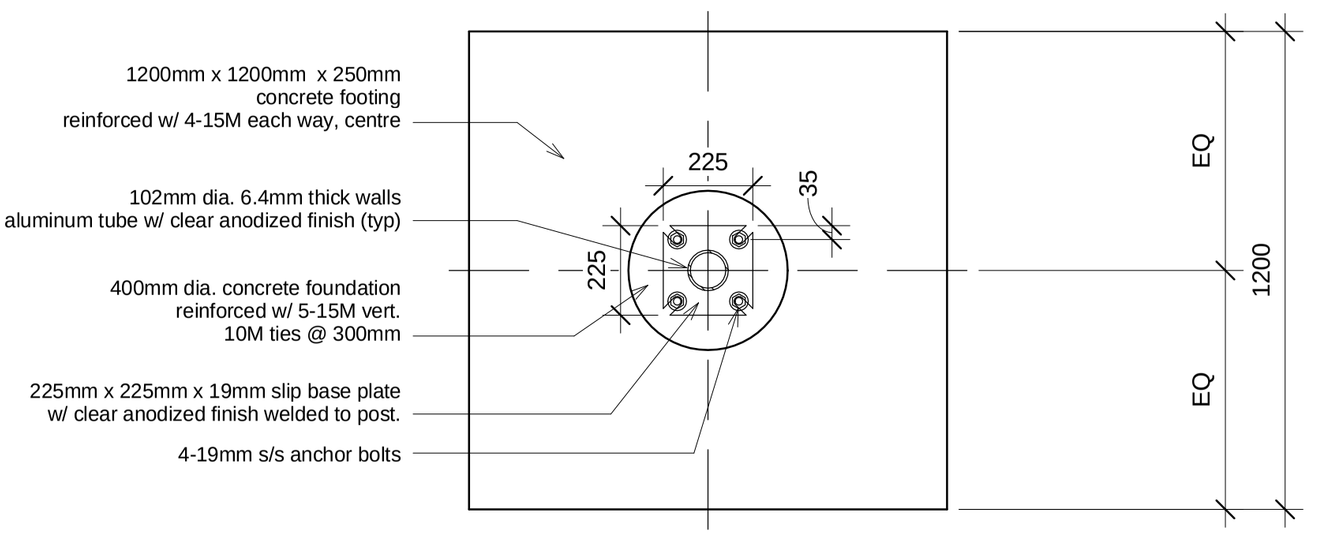
sign:
sheet name: Sign No. 11 - Street Blade
scale: sign construction - sections and plans as noted

sheet number: 04



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

front view/section scale 1:15



plan a scale 1:15

University of Victoria

GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan
Form and placement of stickers on signs is to be coordinated with University of Victoria
2. Fasteners:
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)
bracket/posts:
thru bolts: Fastenal part #73815 (3/8" s/s x 1" button Socket cap screw)
3. Threadlocker: Locktite 271 Red
4. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating) are protected against rusting.
5. Manufacturer to verify all diemnsions 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
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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.

STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and referenced documents.
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

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

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

sign: Sign No. 11 - Street Blade
sheet name: general notes
scale: as noted

sheet number: 05

University of Victoria

Sheet List	
Sheet Number	Sheet Name

01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design - overview
04	sign design - graphic design details
05	sign construction - sections
06	sign construction - details
07	general notes

Sign No. 12
Pedestrian - Minor Wayfinding A

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

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

sheet number: 01

University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic

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

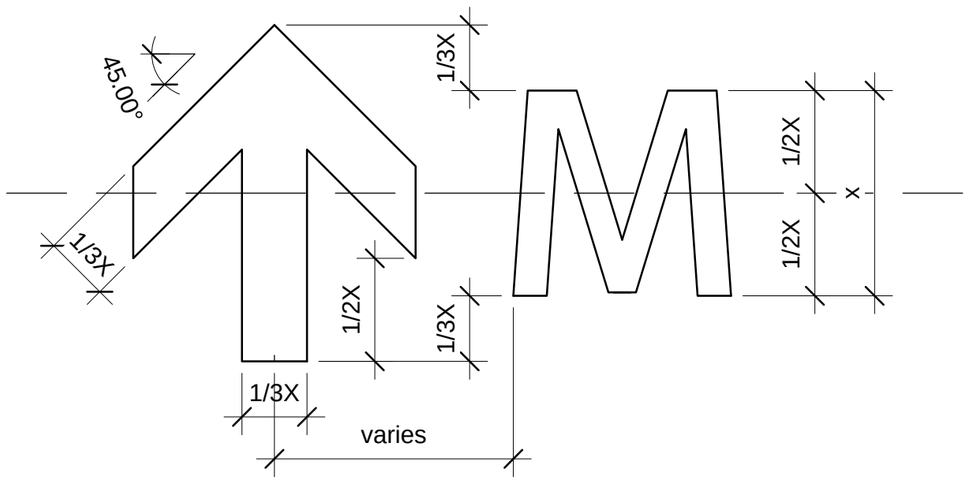
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



University of Victoria Logo, horizontal standard

University of Victoria

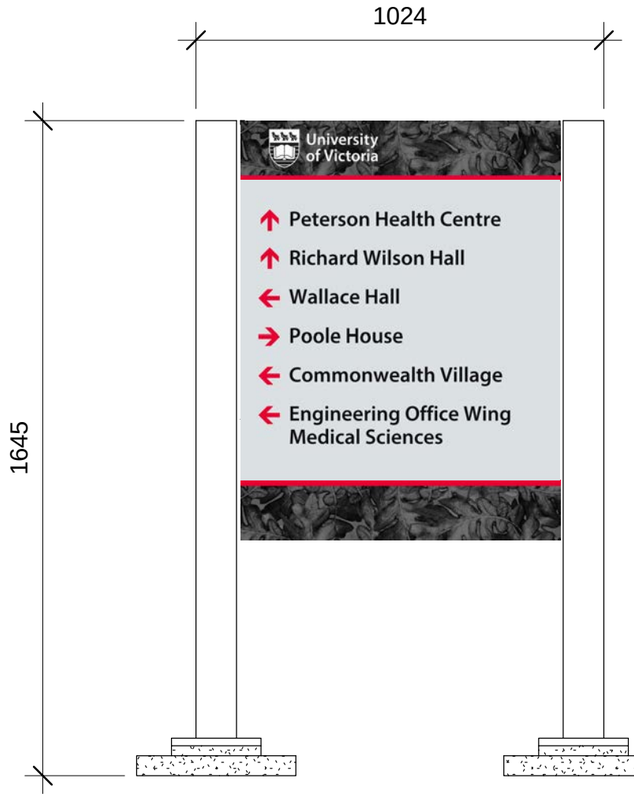
University of Victoria

full colour

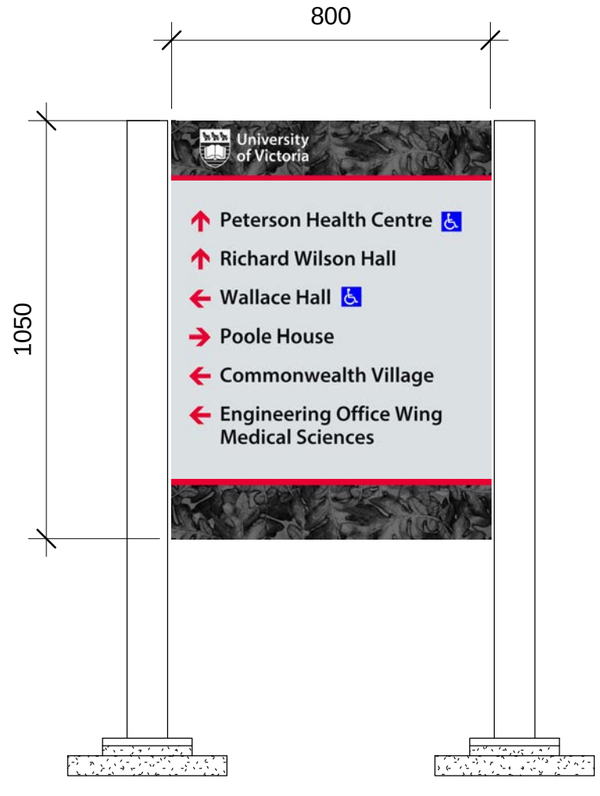
reverse monochromatic - shown against background for clarity

project:	Campus Wayfinding	sign:	Sign No. 12 - Minor Wayfinding A	sheet number:	02
number:	FM 09-8567	sheet name:	typography, colours and pictograms		
issue date:	April 1, 2019	scale:	as noted		

University of Victoria



Minor Wayfinding A
scale 1:15



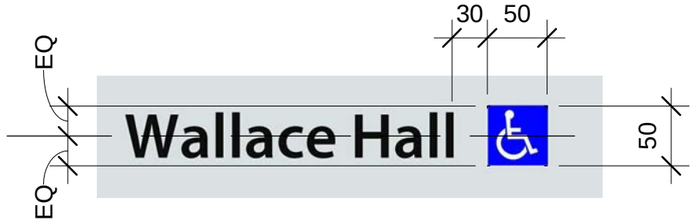
Minor Wayfinding A (with pictograms)
scale 1:15

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

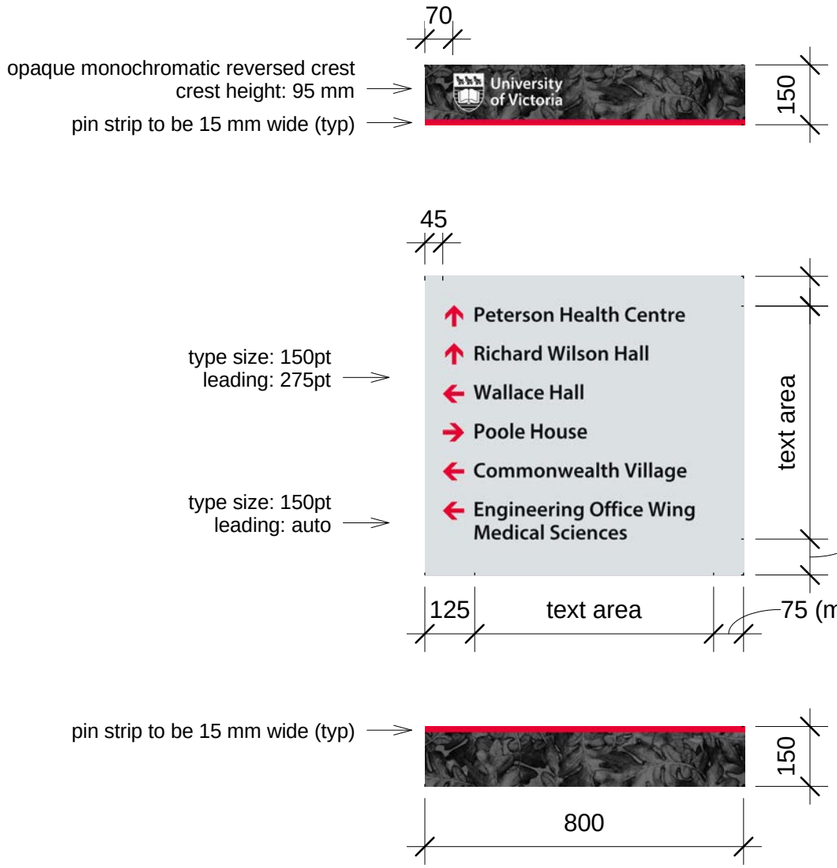
sign: Sign No. 12 - Minor Wayfinding A
sheet name: sign design - overview
scale: as noted

sheet number: 03

University of Victoria



placement of pictogram
scale 1:5



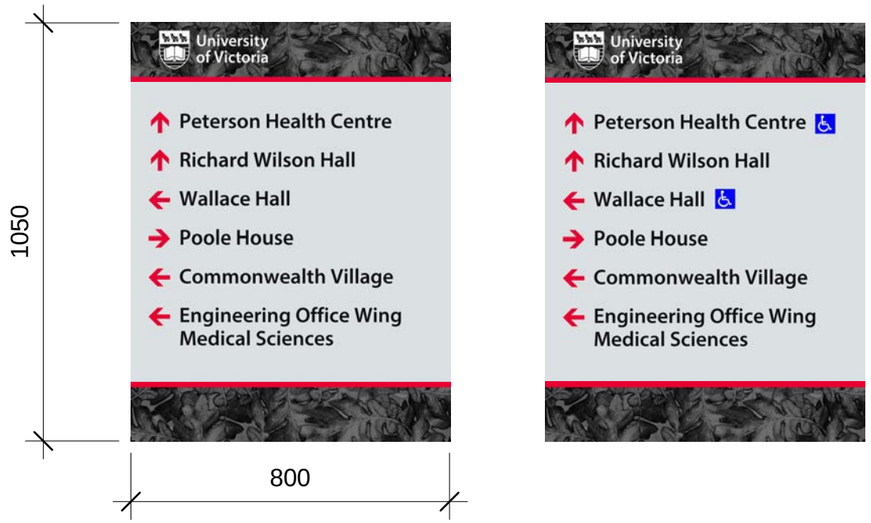
scale 1:15

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

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

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

Refer to Adobe Photoshop files for detailed sample layout



option without pictograms

option w/ pictograms

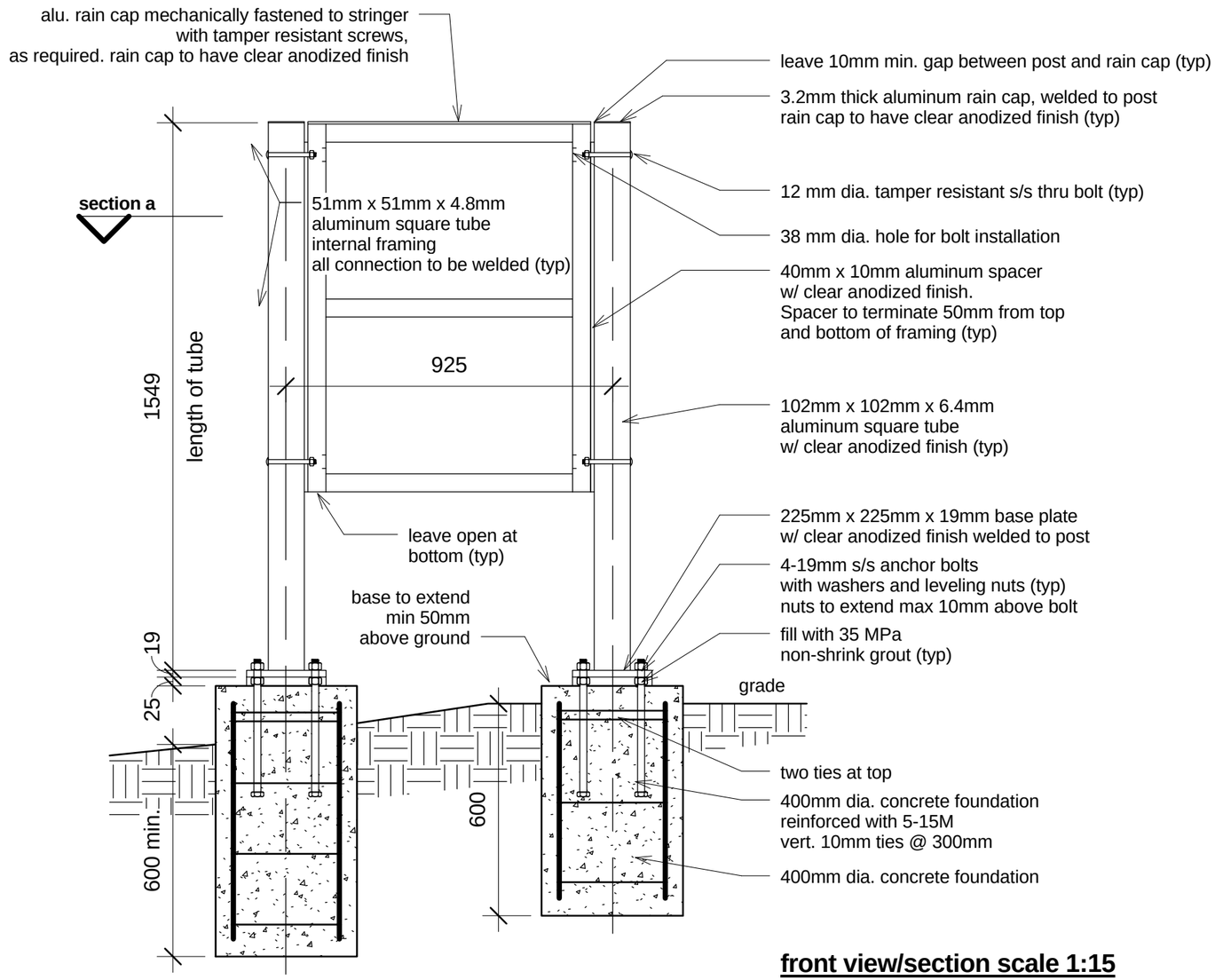
scale 1:15

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

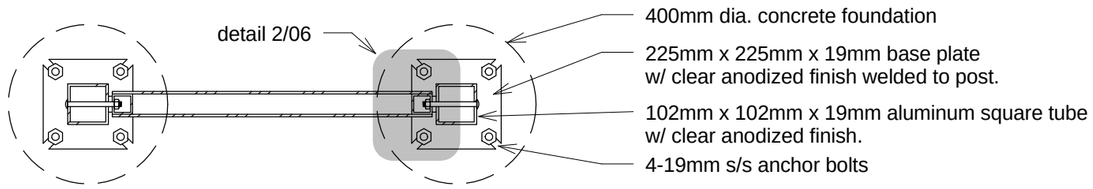
sign: Sign No. 12 - Minor Wayfinding A
sheet name: sign design - graphic design details
scale: as noted

sheet number: 04

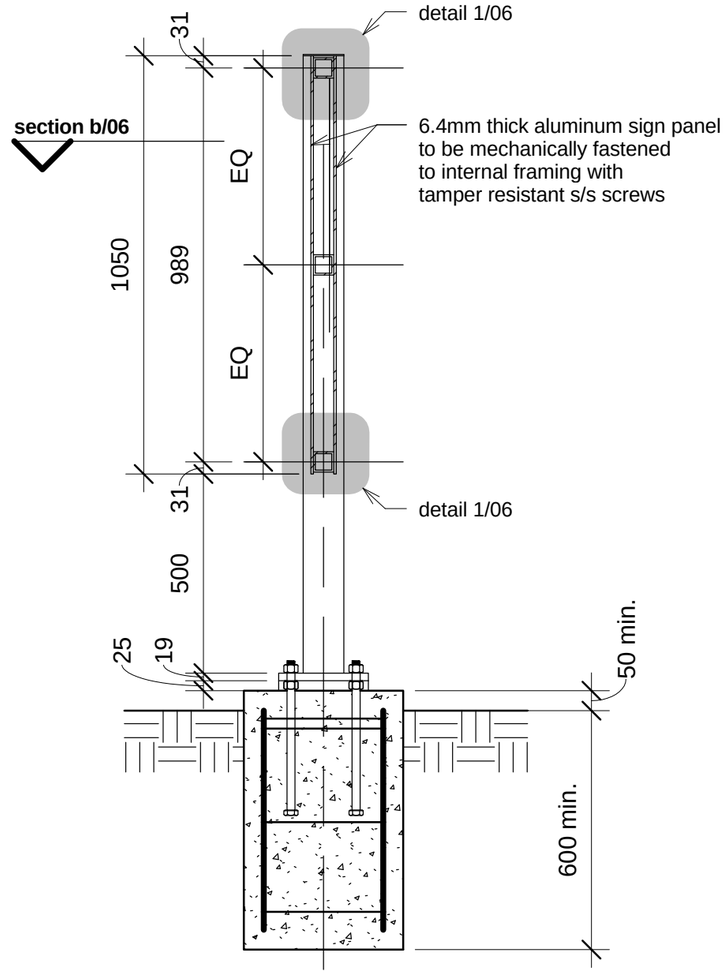
University of Victoria



front view/section scale 1:15



section a scale 1:15

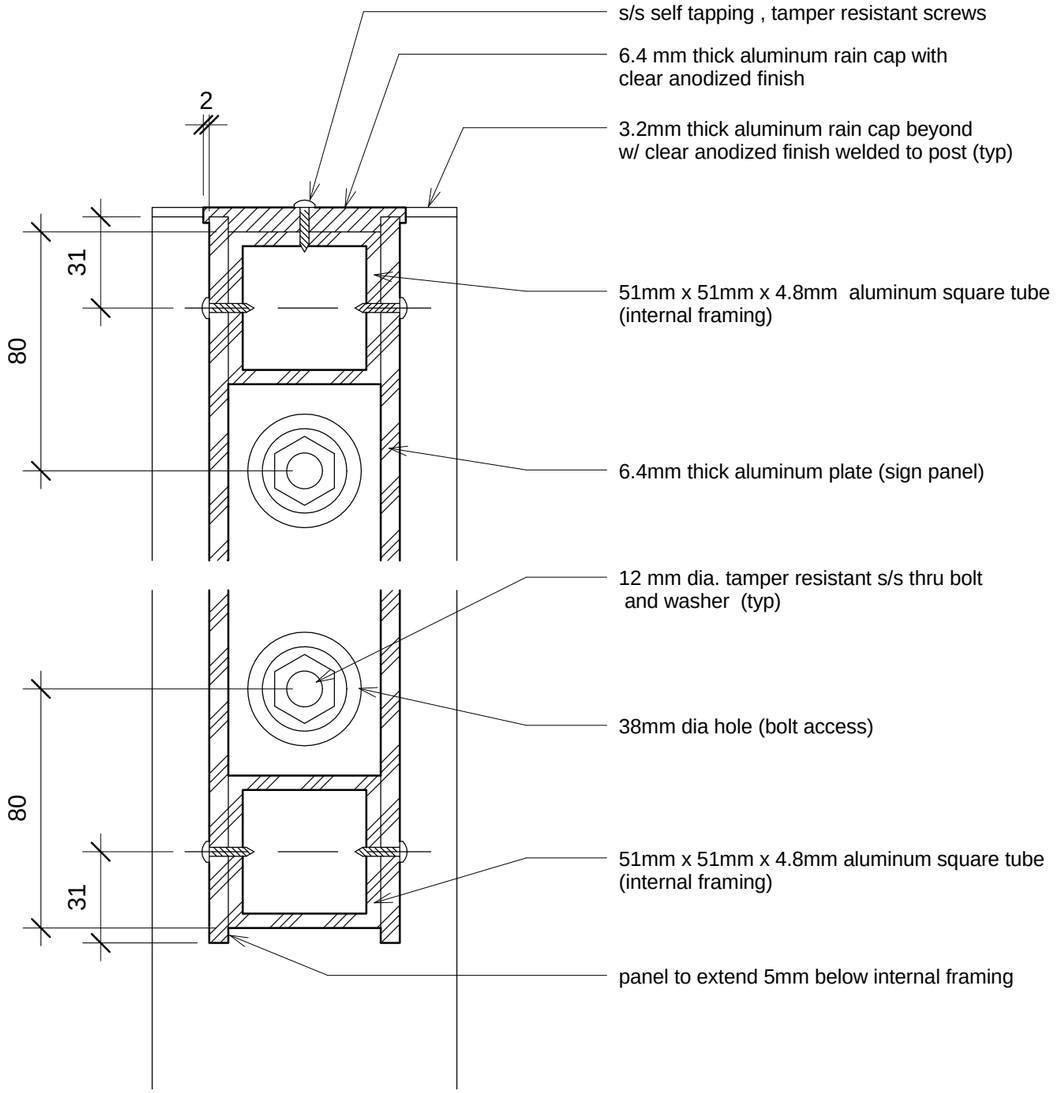


side view/section scale 1:15

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

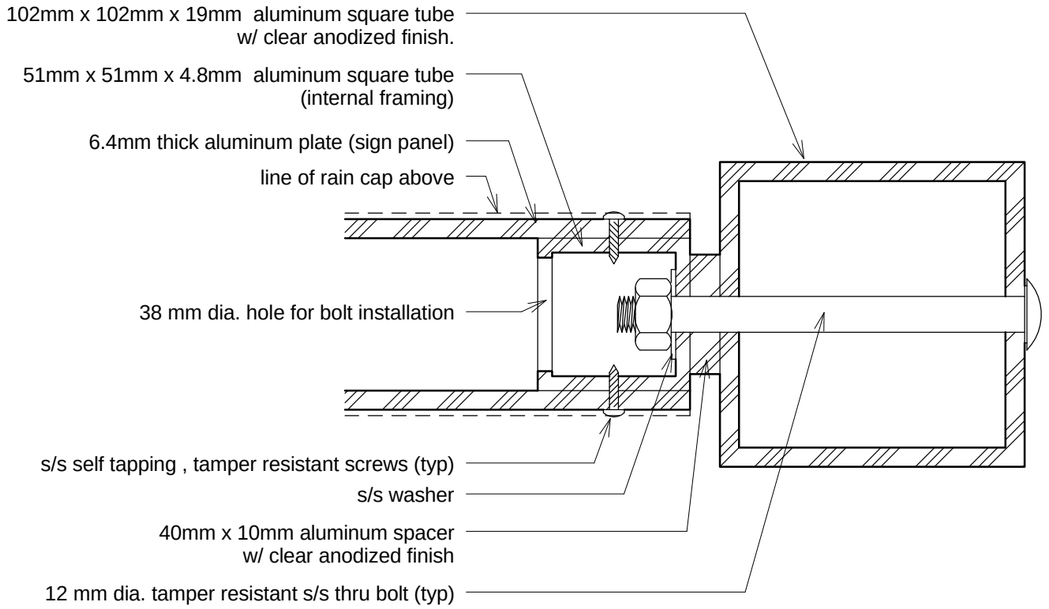
project:	Campus Wayfinding
number:	FM 09-8567
issue date:	April 1, 2019
sign:	Sign No. 12 - Minor Wayfinding A
sheet name:	sign construction - sections
scale:	as noted
sheet number:	05

University of Victoria

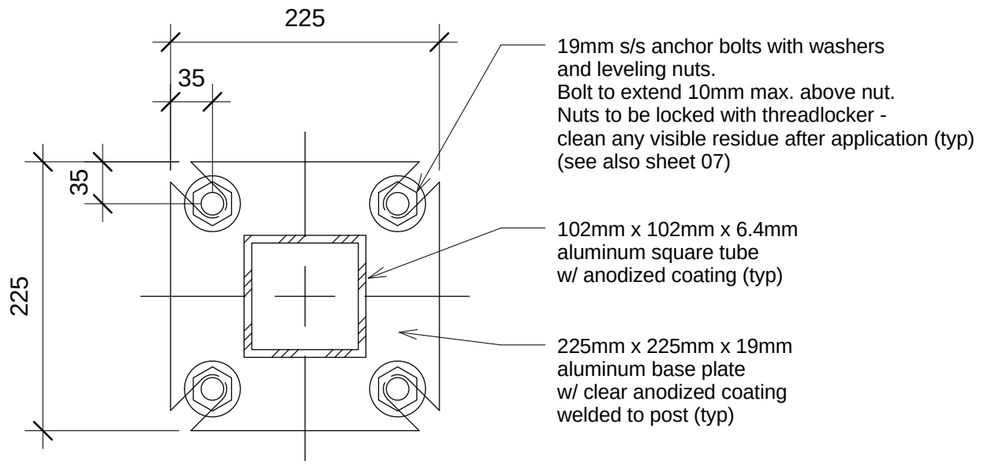


General Note:
Manufacturer to verify all diemnsions prior to sign fabrication. All discrepancies should be reported to the Architect.

section detail 1 scale 1:2



section detail 2 scale 1:2



section b (slip base) scale 1:5

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

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

sheet number: 06

University of Victoria

GENERAL NOTES

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

STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and
referenced documents.
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class
C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate
size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of
concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

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

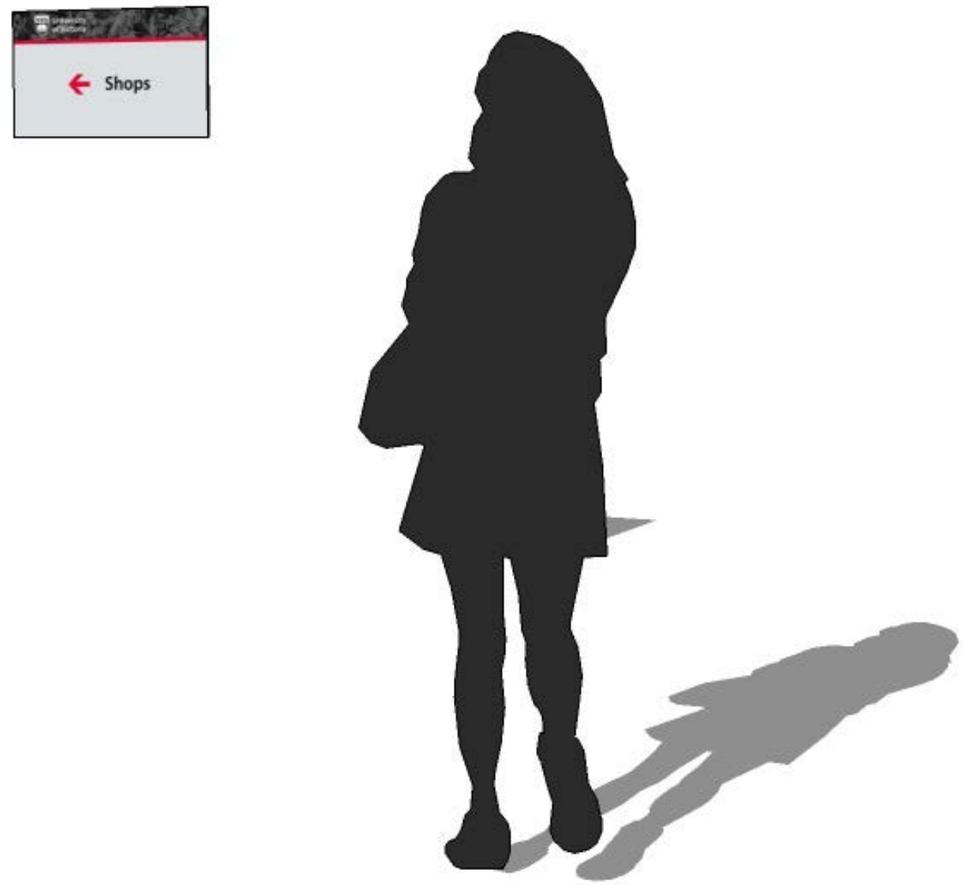
TAMPER RESISTANCE AND CONNECTIONS
1. Connection hardware to be stainless steel uno.
2. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping
screws at 450mm maximum centre to centre spacing.
3. Non-removable panels may be welded or glued by the manufacturer, as 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.

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

sign: Sign No. 12 - Minor Wayfinding A
sheet name: general notes
scale: as noted

sheet number: 07

University of Victoria



Sheet List	
Sheet Number	Sheet Name

01	title sheet and drawing list
02	sign design/graphic design details
03	sign and graphic design
04	sign and graphic design, mounting details
05	general notes

Sign No. 13
Pedestrian - Minor Wayfinding B

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

sign: Sign No. 13 - Minor Wayfinding B
sheet name: title sheet and drawing list
scale: as noted

sheet number: 01

University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic

PANTEONE 7541 C
application: background

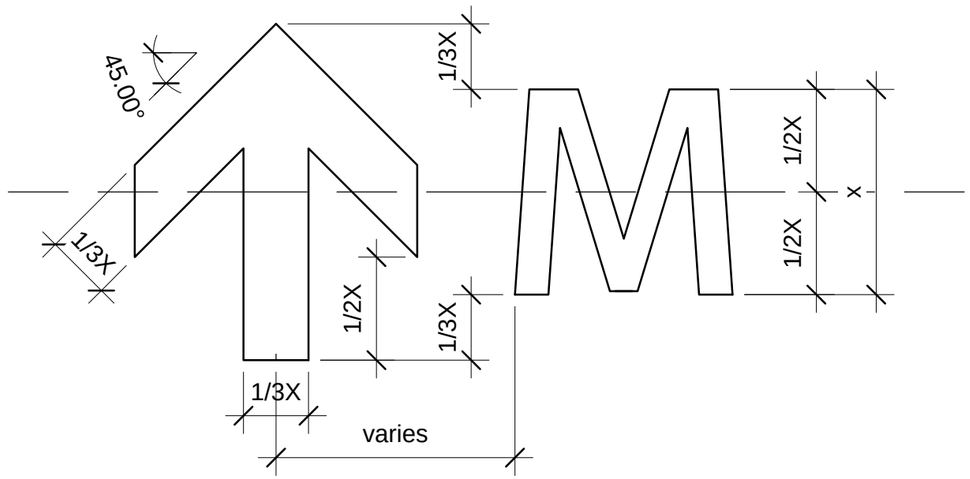
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



University of Victoria Logo, horizontal standard

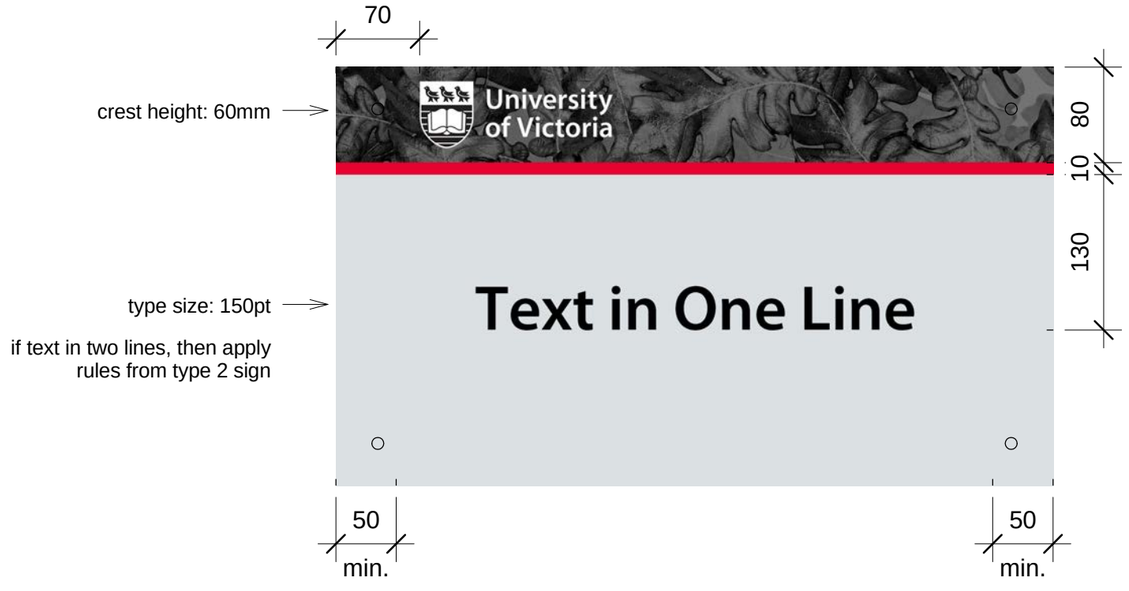
University of Victoria

University of Victoria

full colour

reverse monochromatic - shown against bacgroud for clarity

project:	Campus Wayfinding	sign:	Sign No. 13 - Minor Wayfinding B	sheet number:	02	University of Victoria
number:	FM 09-8567	sheet name:	sign design/graphic design details			
issue date:	April 1, 2019	scale:	as noted			



type 1 sign scale 1:5

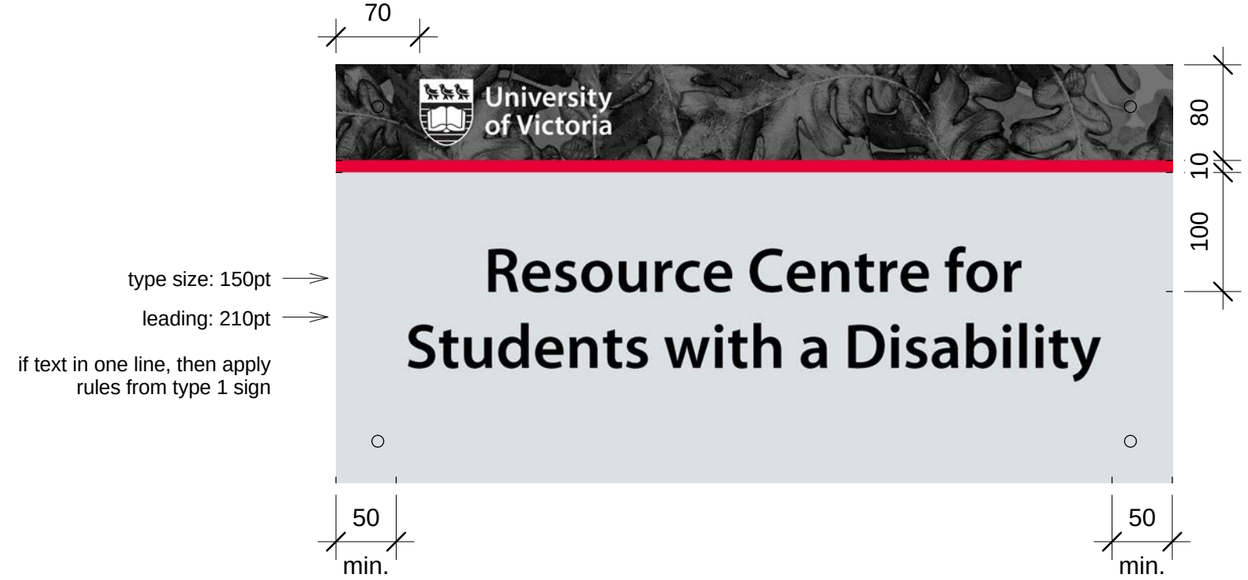
Aluminum panel size:
600 mm x 350 mm x 6.4 mm

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

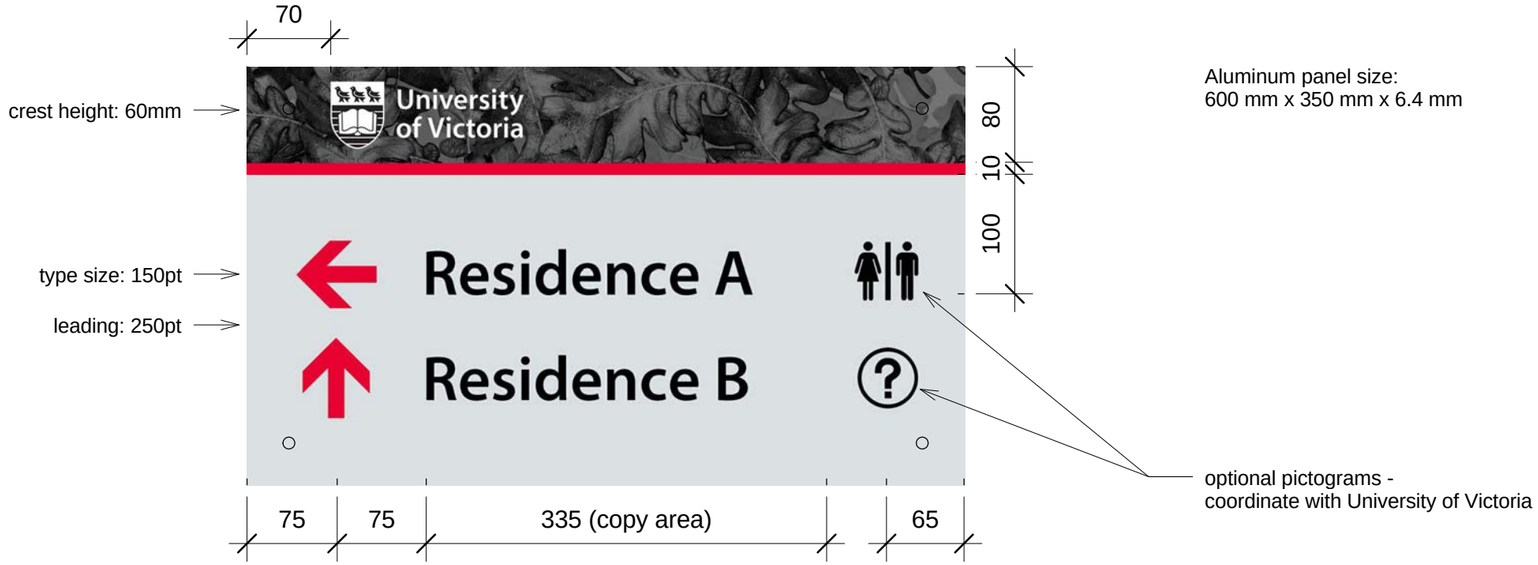


type 2 sign scale 1:5

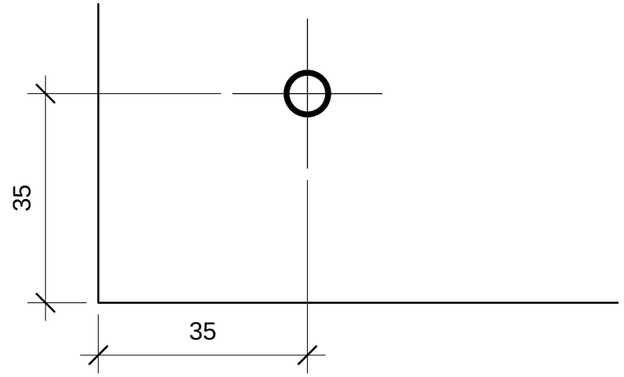
Aluminum panel size:
700 mm x 350 mm x 6.4 mm

project:	Campus Wayfinding
number:	FM 09-8567
issue date:	April 1, 2019
sign:	Sign No. 13 - Minor Wayfinding B
sheet name:	sign and graphic design
scale:	as noted
sheet number:	03

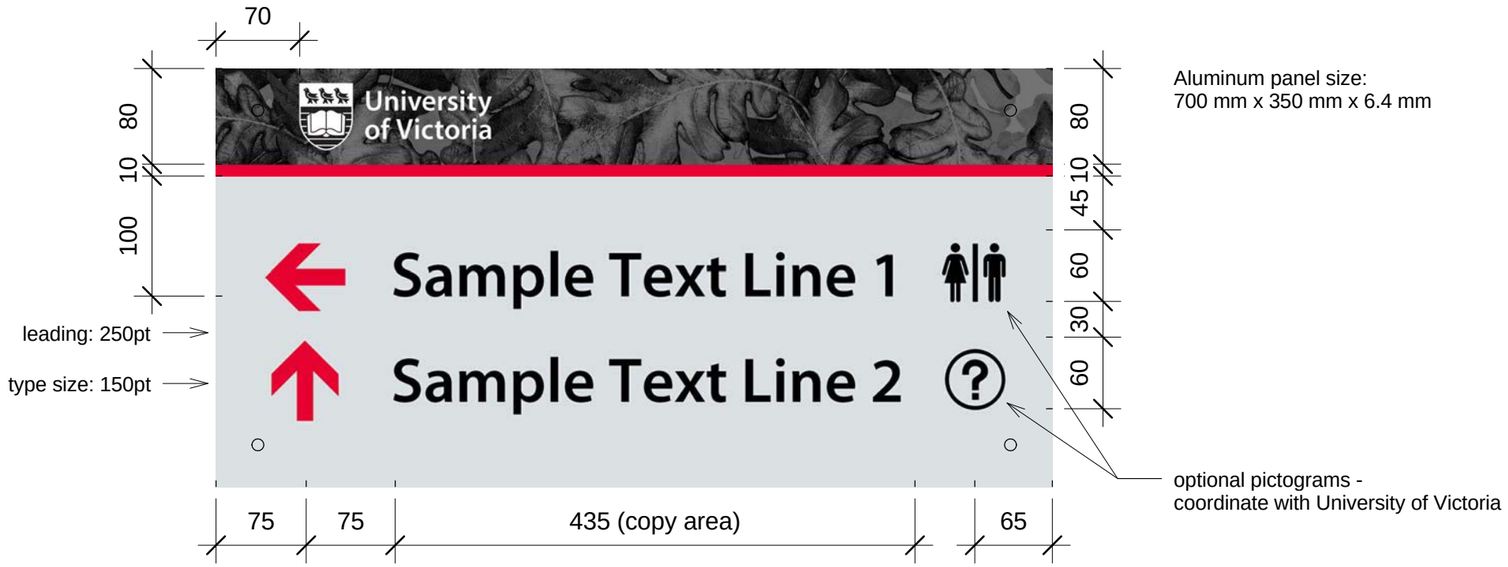
University of Victoria



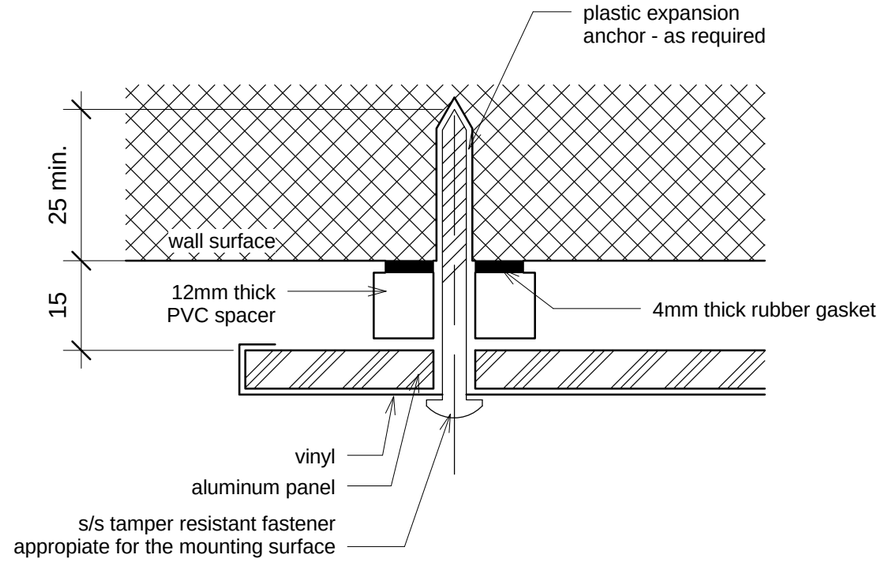
type 3 sign scale 1:5



fastener typical location on sign scale1:1



type 4 sign scale 1:5



typical mounting detail scale 1:1

project:	Campus Wayfinding
number:	FM 09-8567
issue date:	April 1, 2019
sign:	Sign No. 13 - Minor Wayfinding B
sheet name:	sign and graphic design, mounting details
scale:	as noted
sheet number:	04

University of Victoria

GENERAL NOTES

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

STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and referenced documents.
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

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

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

sign: Sign No. 13 - Minor Wayfinding B
sheet name: general notes
scale: as noted

sheet number: 05

University of Victoria

Sheet List	
Sheet Number	Sheet Name

01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design/graphic design details
04	sign construction - sections and details
05	general notes

Sign No. 15
Minor Pedestrian Map

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

sign: Sign No. 15 - Minor Pedestrian Map
sheet name: title sheet and drawing list
scale: as noted

sheet number: 01

University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic

PANTEONE 7541 C
application: background

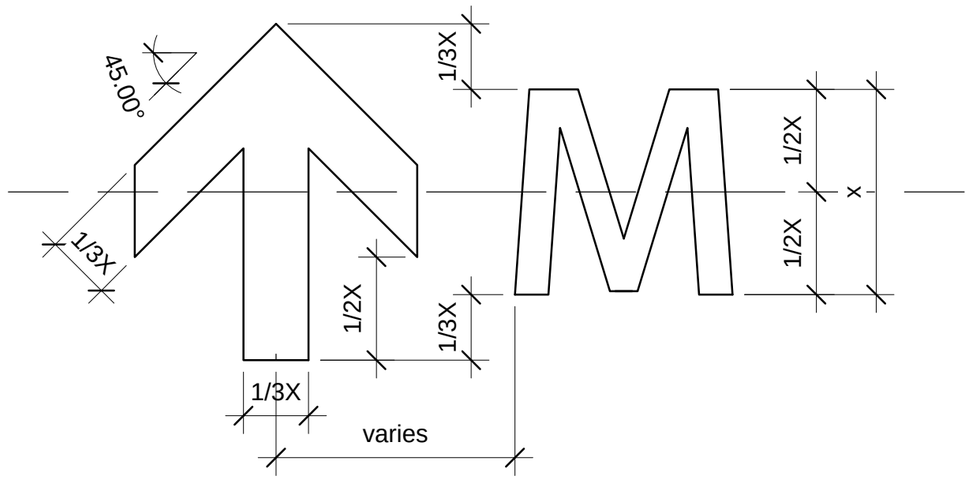
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



University of Victoria Logo, horizontal standard

University of Victoria

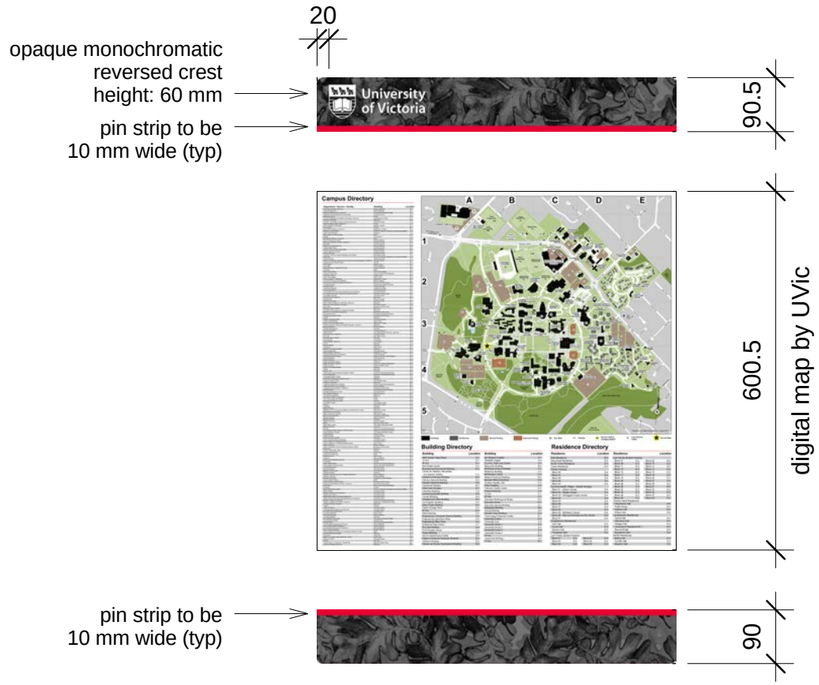
University of Victoria

full colour

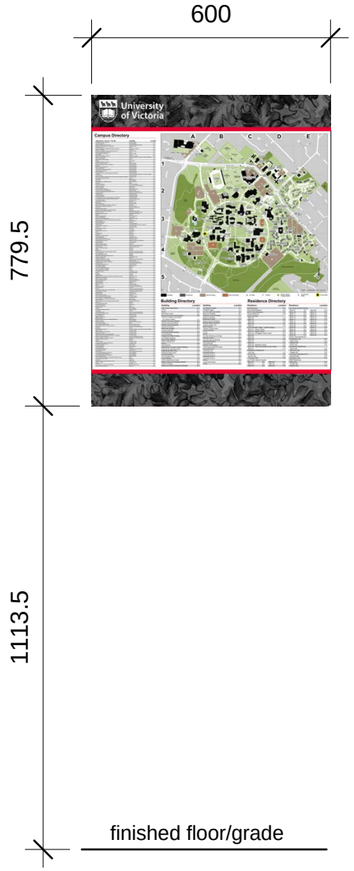
reverse monochromatic - shown against backgroud for clarity

project:	Campus Wayfinding	sign:	Sign No. 15 - Minor Pedestrian Map	sheet number:	02
number:	FM 09-8567	sheet name:	typography, colours and pictograms		
issue date:	April 1, 2019	scale:	as noted		

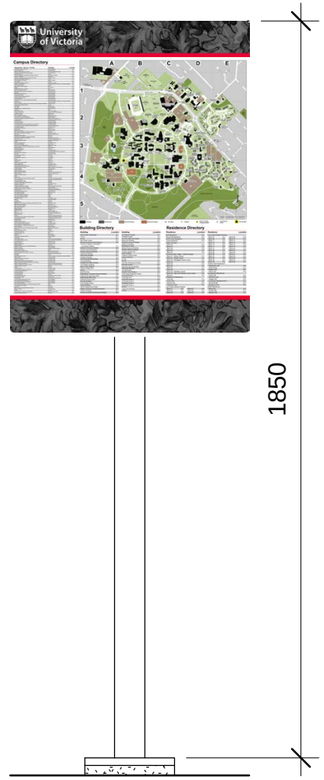
University of Victoria



panel front view scale 1:10



wall mounted option



post mounted option

scale 1:15

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

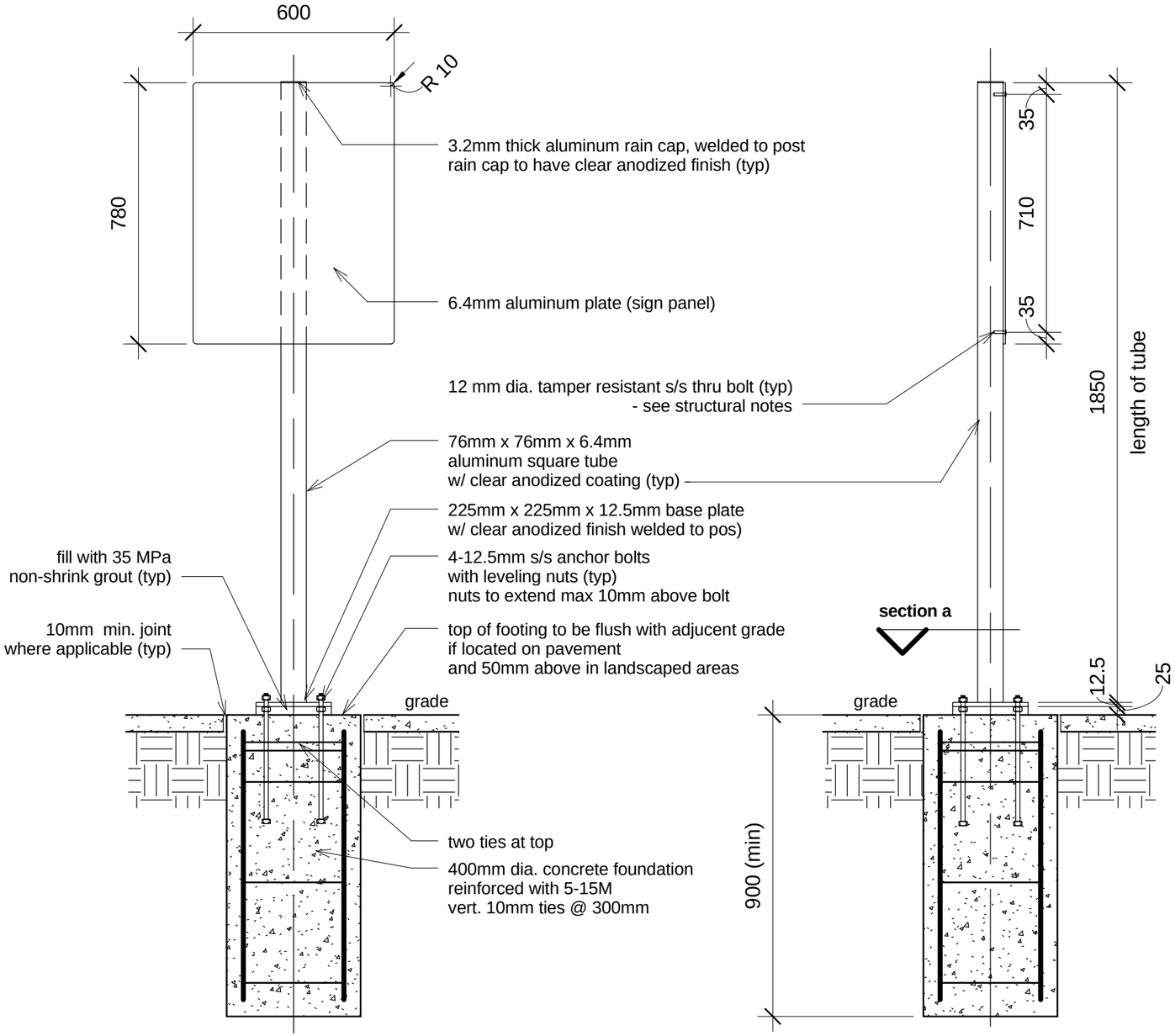
Vinyl:	3M IJ180, MPI 2005 or equivalent
Overlaminate:	3M 8914, Avery DOL 6060 or equivalent.

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

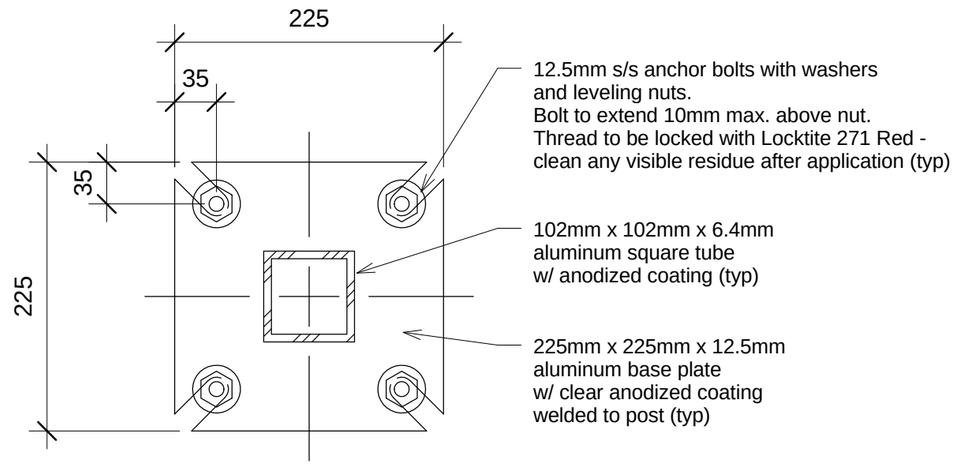
project:	Campus Wayfinding
number:	FM 09-8567
issue date:	April 1, 2019
sign:	Sign No. 15 - Minor Pedestrian Map
sheet name:	sign design/graphic design details
scale:	as noted
sheet number:	03

University of Victoria

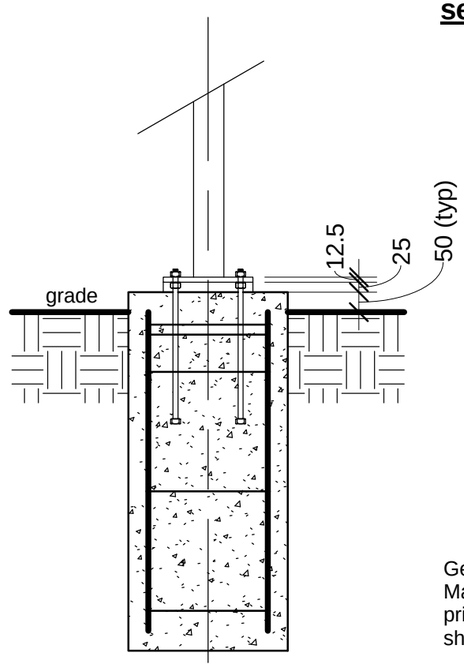


front view/section scale 1:15

side view/section scale 1:15



section a (slip base) scale 1:5



side view/section scale 1:15 (sign located in landscaped areas)

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

project:	Campus Wayfinding
number:	FM 09-8567
issue date:	April 1, 2019
sign:	Sign No. 15 - Minor Pedestrian Map
sheet name:	sign construction - sections and details
scale:	as noted
sheet number:	04

University of Victoria

GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan
Form and placement of stickers on signs is to be coordinated with University of Victoria
2. Fasteners:
    foundation (anchor bolts):
    bolts: Fastenal part #47406 (1/2" s/s threaded rod)
    washers: Fastenal part #71021 (1/2" s/s washers)
    nuts: Fastenal part #70714 (1/2" s/s nuts)
    posts:
    thru bolts: Fastenal part #10630-04183 (1/2" s/s x 4" button Socket Cap Screw)
    thru bolt washers: Fastenal part #71021 (1/2" s/s washers)
    thru bolt nuts: 70714 (1/2" s/s nuts)

3. Threadlocker: Locktite 271 Red
4. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating)
are protected against rusting.
5. Manufacturer to verify all diemnsions 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.
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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.

FIELD REVIEW BY STRUCTURAL ENGINEER
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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.
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3. The work to be reviewed shall be generally complete.

STRUCTURAL NOTES (cont)

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and
referenced documents.
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class
C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate
size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of
concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

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

TAMPER RESISTANCE AND CONNECTIONS
1. Connection hardware to be stainless steel uno.
2. Aluminum panels to be connected to structure with 6.4mm diameter stainless steel self-tapping
screws at 450mm maximum centre to centre spacing.
3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
4. Panel connection screws to be tamper resistant "Torx-Pin" screws as supplied by O.E.M.
Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
5. Visible connection bolts shall be "Pentagon" tamper resistant bolts, with "Pentagon" nuts as
supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
Anchor bolts to be secured with "Pentagon" security nuts.

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number: FM 09-8567
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sign: Sign No. 15 - Minor Pedestrian Map
sheet name: general notes
scale: as noted

sheet number: 05

University of Victoria