

DS-03 Design Bulletin DSB-001 – TH Sign Updates

Issued September 2025

NOTE:

The content of this document reflects changes to TH sign design only.

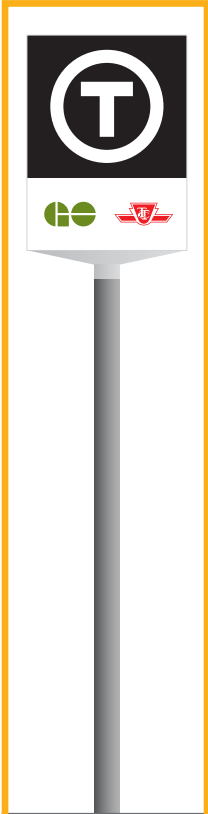
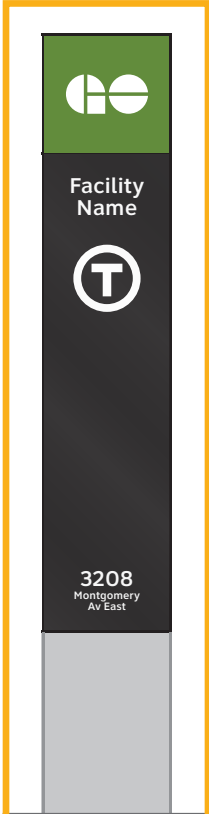
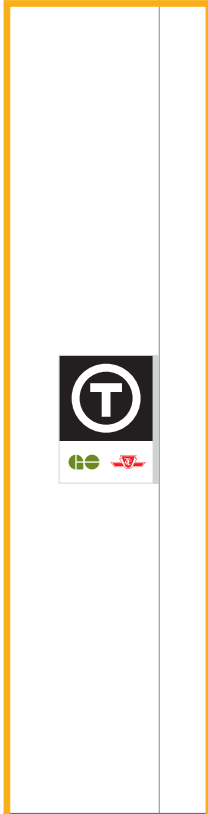
This document shall be read in conjunction with the Metrolinx Wayfinding Design Standard and Sign Implementation Manual.

For all other DS-03 requirements, refer to the Wayfinding Design Standard and Sign Implementation Manual.

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1.0	TH Sign Updates bulletin	1.1	Introduction	1.2	Summary of changes
			This document outlines updated specifications for TH signs in the Metrolinx Design Standard DS-03. These changes are effective upon issuance of this document.		The following extract from the Metrolinx Design Standard DS-03 Part 1: Wayfinding Design Standard v3.4 indicates the TH signs that shall be modified with a new design and those that shall be deleted.

TH 3.1.1 Facility Marker: Wall mounted has modifications to its design as well as requirements around its use and sign code.

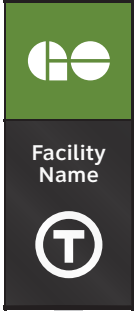
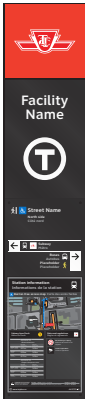
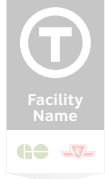
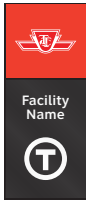
MODIFIED DESIGN	NEW DESIGN	MODIFIED DESIGN	MODIFIED DESIGN	MODIFIED DESIGN + REQUIREMENTS	MODIFIED DESIGN
				 DELETED 	
TH1 Facility Beacon: Vehicular Lollipop	TH1.1 Facility Beacon: Vehicular Totem	TH2.1 Facility Beacon: Pedestrian Totem	TH2.2 Facility Beacon: Pedestrian Lollipop	TH3.1.2 Facility Marker: Wall mounted with facility name	TH3.2 Facility Marker: Projecting

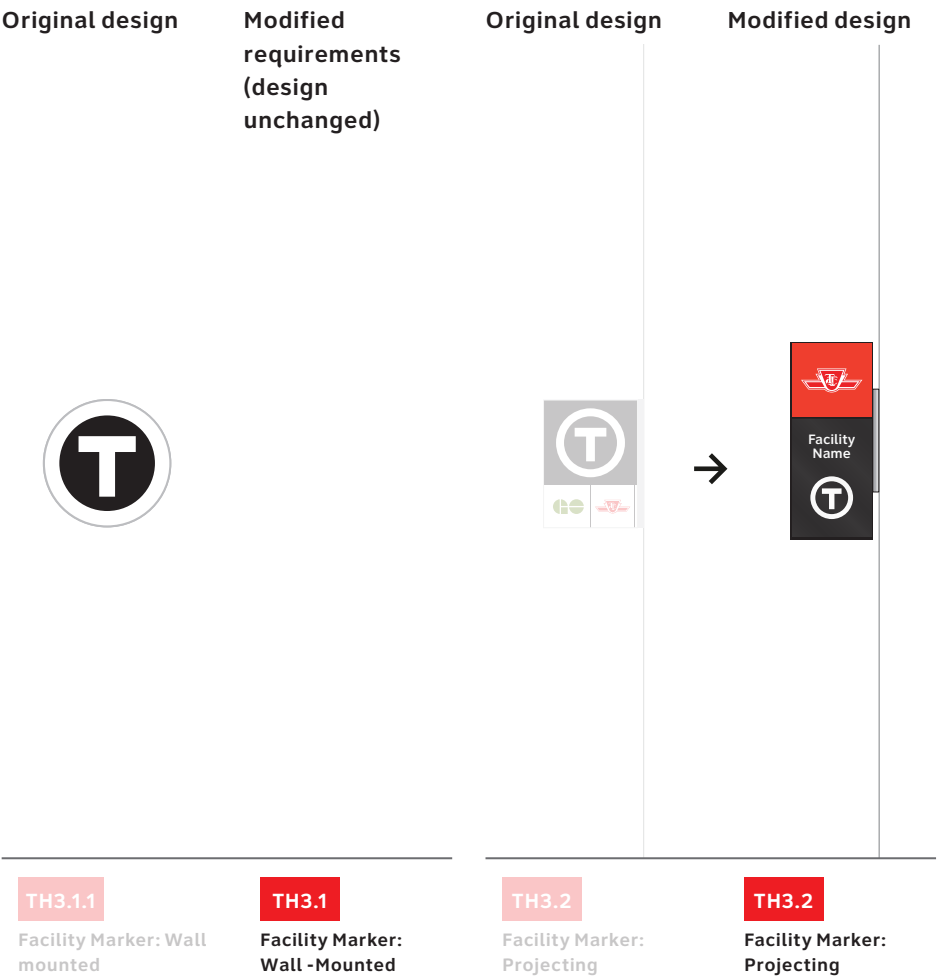
TH1.1 Facility Marker: Vehicular Totem is used only to replace existing vehicular totems designed to the GO Static Signage Catalogue

1.3 Modified TH sign designs

The following indicates the TH signs to be modified and the new design that it shall be replaced with.

See Sections 2.0 and 3.0 for updated extracts from the Wayfinding Design Standard and Sign Implementation Manual that reflect the new designs.

Original design	Modified design	Original design	Modified design	Original design	Modified design
					
TH1 Facility Beacon: Vehicular Lollipop	TH1.2 Facility Beacon: Vehicular Lollipop	TH2.1 Facility Beacon: Pedestrian Totem	TH2.1 Facility Beacon: Pedestrian Totem	TH2.2 Facility Beacon: Pedestrian Lollipop	TH2.2 Facility Beacon: Pedestrian Lollipop



TH 3.1 Facility Marker: Wall mounted
is now used only at facilities where three or more operators are present. The design of the sign remains unchanged.

2.0 Wayfinding Design Standard pages

6.1 Threshold markers

Threshold markers mark entry or departure points to/from the transit facility. These types of signs are located either at the boundary of the site or at the point of transition between exterior and interior spaces.

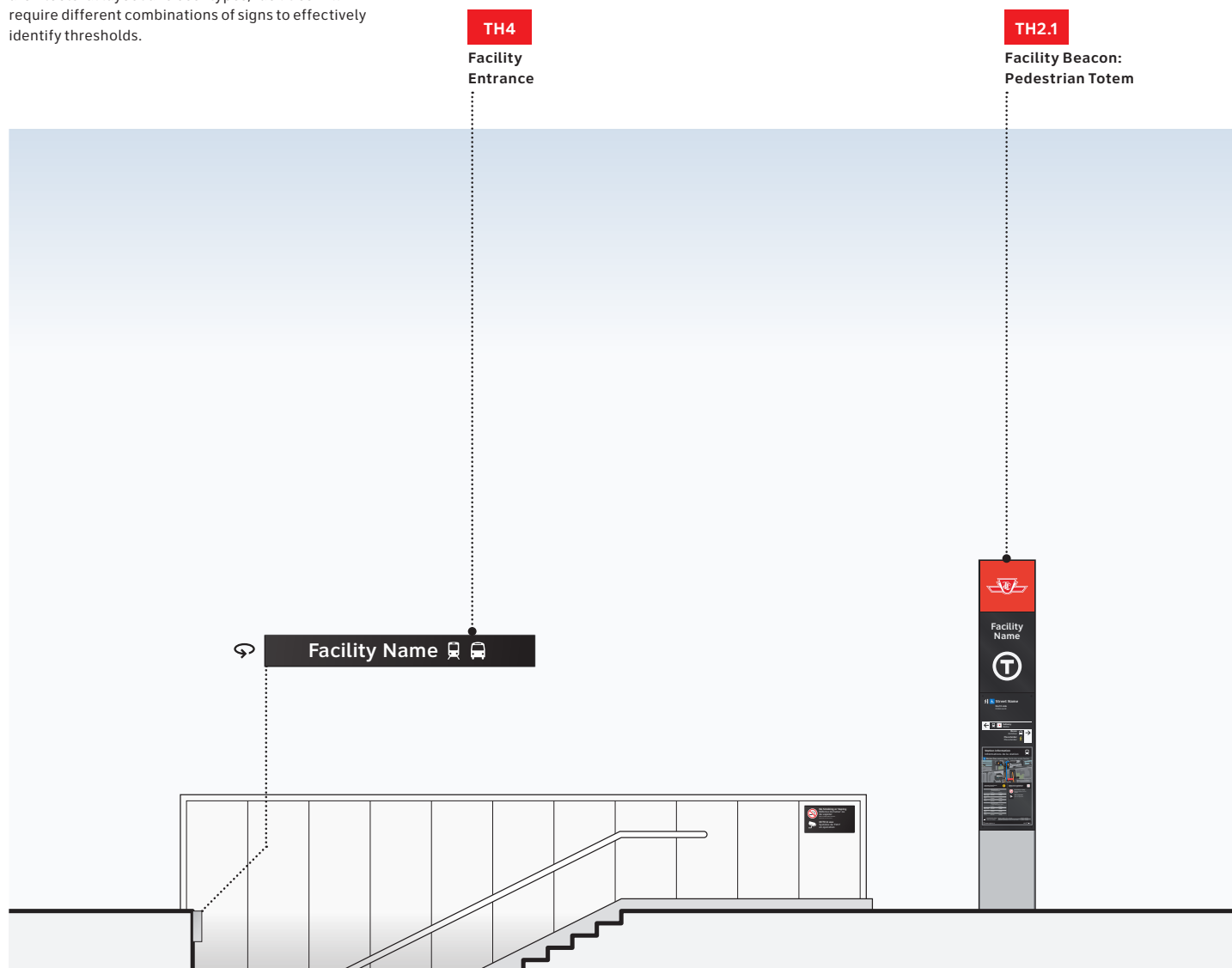
The combination of sign types selected will depend on the context of the individual entrance.

NOTE: The following elevations contain additional sign types for context for planning overall signage for the facility. It is meant to be read in conjunction with the Wayfinding Design Standard and Sign Implementation Manual.

Typical urban approach

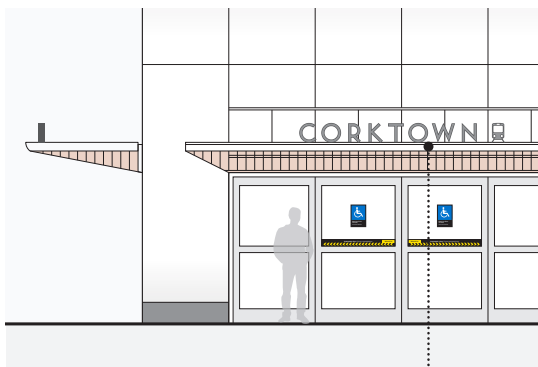
This combination of signs is typical for identifying transit facilities for users approaching on foot.

This is a typical approach. Due to differing architectural layout and user types, facilities will require different combinations of signs to effectively identify thresholds.



Note: Sign type specific mounting heights are given here, where mounting height is not defined by the architecture (i.e. above a doorway). Mounting heights shown here represent an optimal approach and will be subject to variation based on operational requirements or architectural considerations. Standard mounting heights are covered in further detail in the Sign Implementation Manual. All mounting heights to be confirmed by Metrolinx prior to implementation.

TH2.1 signs contain a panel that can accommodate an ANSI D poster or digital screen, depending on the placement and context of the sign in the customer journey. The ANSI D panel can provide mapping and/or directions to transit facility entrances if required.



TH4 Facility Entrance sign alternative

This version of the TH4 Facility Entrance sign (with dimensional lettering and iconography) is applicable on the Ontario Line only, in locations where an entrance canopy is provided.

TH4
Facility Entrance

TH5
Barrier-free Access

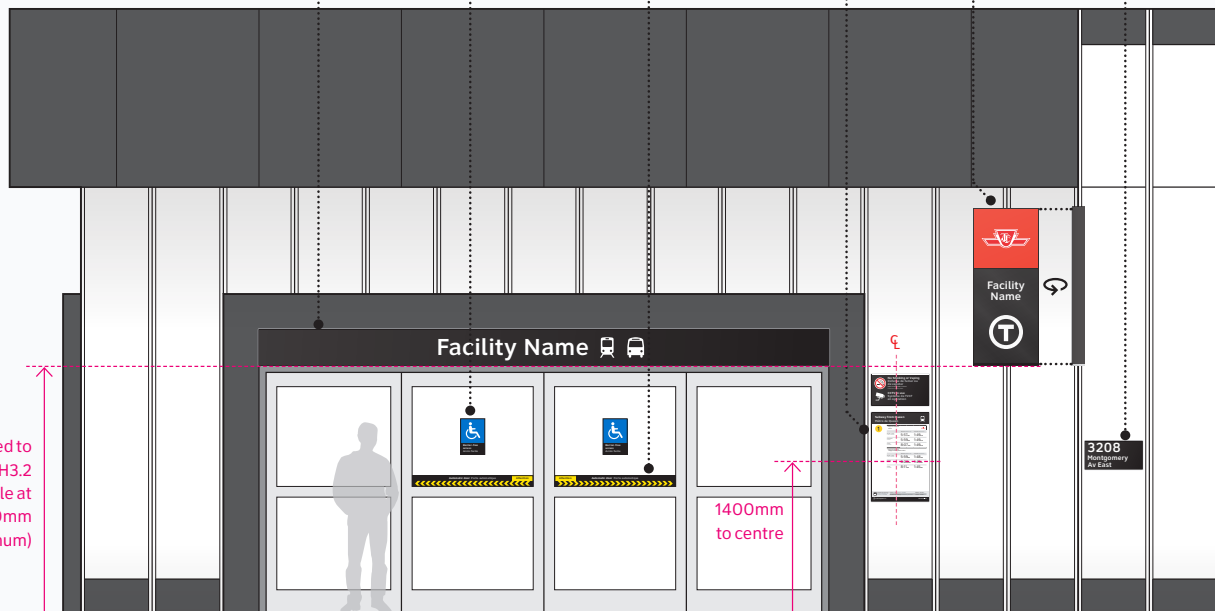
TH5.1
Automatic Door

TH7
First and Last Trains

TH3.2
Facility Marker: Projecting

TH6
Facility Address

Aligned to bottom of TH3.2 where possible at 2400mm (2100 minimum)

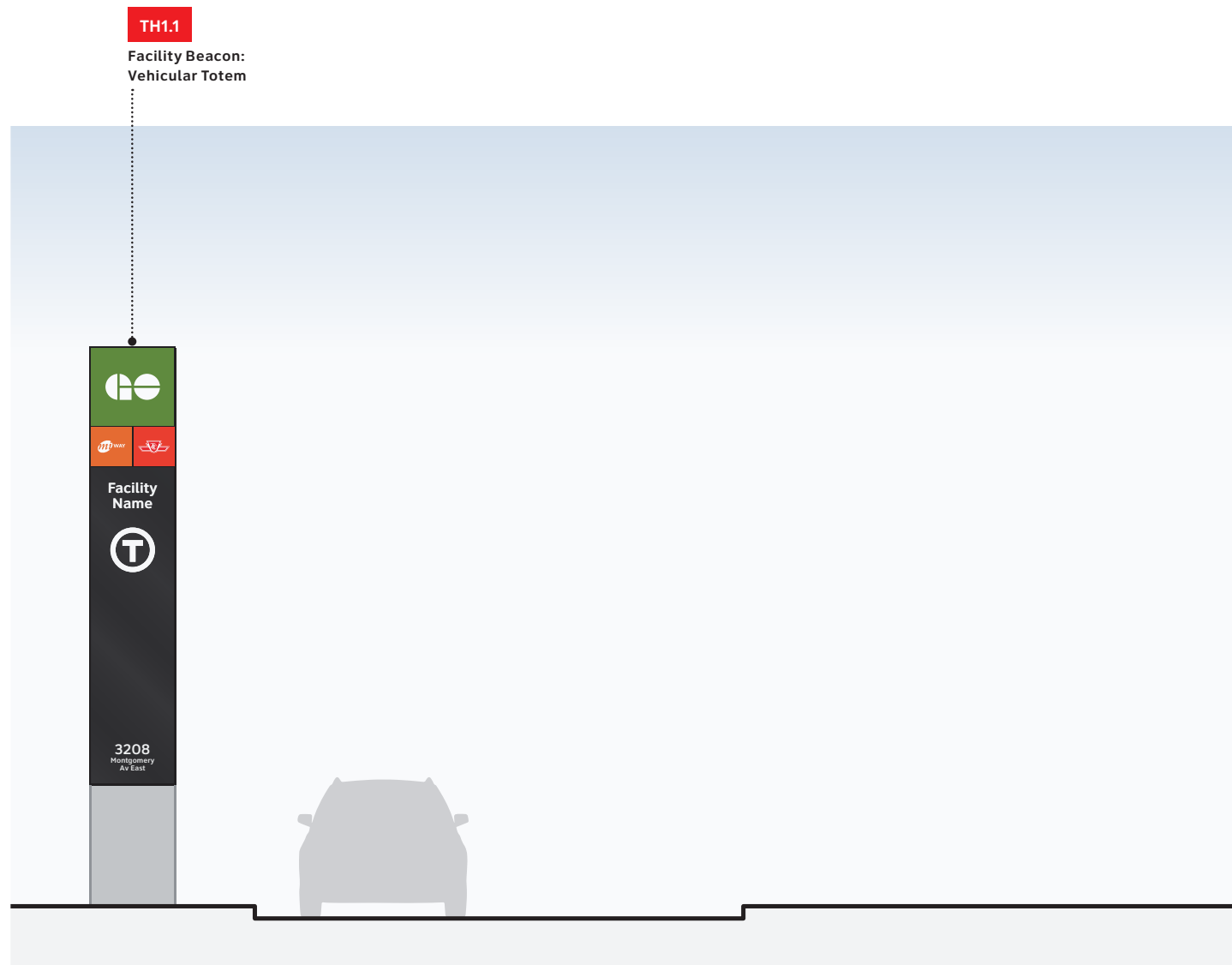


A Facility Entrance sign is shown above all doorways with a First and Last Trains panel to the side of the door. A projecting Facility Marker sign is used to identify the facility where it is not possible to locate a Facility Beacon (TH2.1/TH2.2).

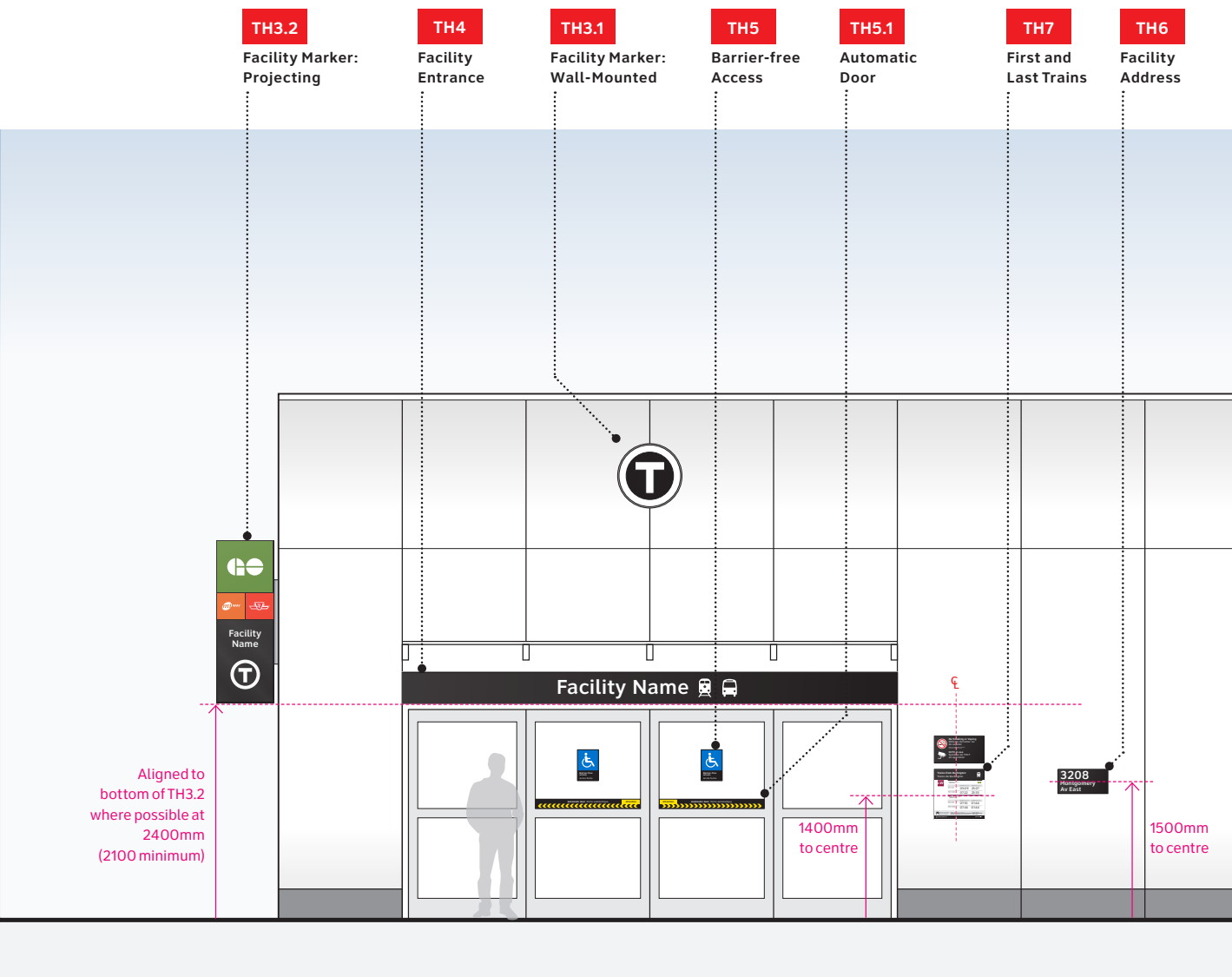
Typical suburban approach

This combination of signs is typical for identifying transit facilities for users accessing by vehicle.

This is a typical approach. Due to differing architectural layout and user types, facilities will require different combinations of signs to effectively identify thresholds.



Vehicular lollipops highlight where transit services can be accessed, to be visible to vehicles on the municipal right-of-way. 6 metre and 8 metre versions available.



A wall-mounted Facility Marker shall be used only when the facility serves three or more operators.

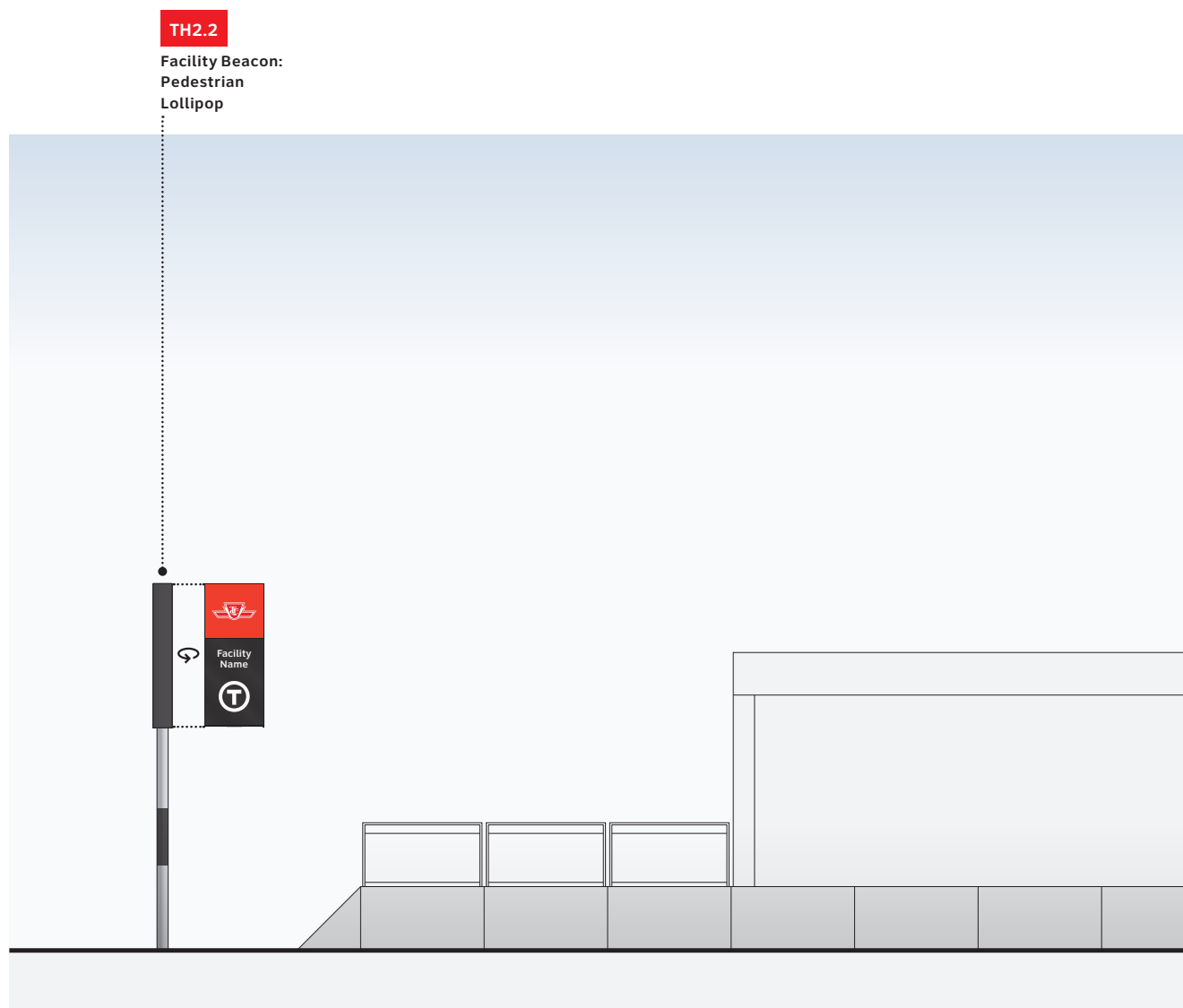
A Facility Entrance sign is shown above all doorways with a First and Last Trains panel to the side of the door. A projecting Facility Marker sign is used to identify the facility where it is not possible to locate a Facility Beacon (TH2.1/TH2.2).

Typical at-grade light rail stop approach

This combination of signs is typical for identifying transit facilities for users accessing an at-grade light rail stop.

This is a typical approach. Due to differing architectural layout and user types, facilities will require different combinations of signs to effectively identify thresholds.

Note: Signs in Section 5.1 are under review and may be subject to future design development. Metrolinx shall be consulted for any finalized design approach prior to implementation.

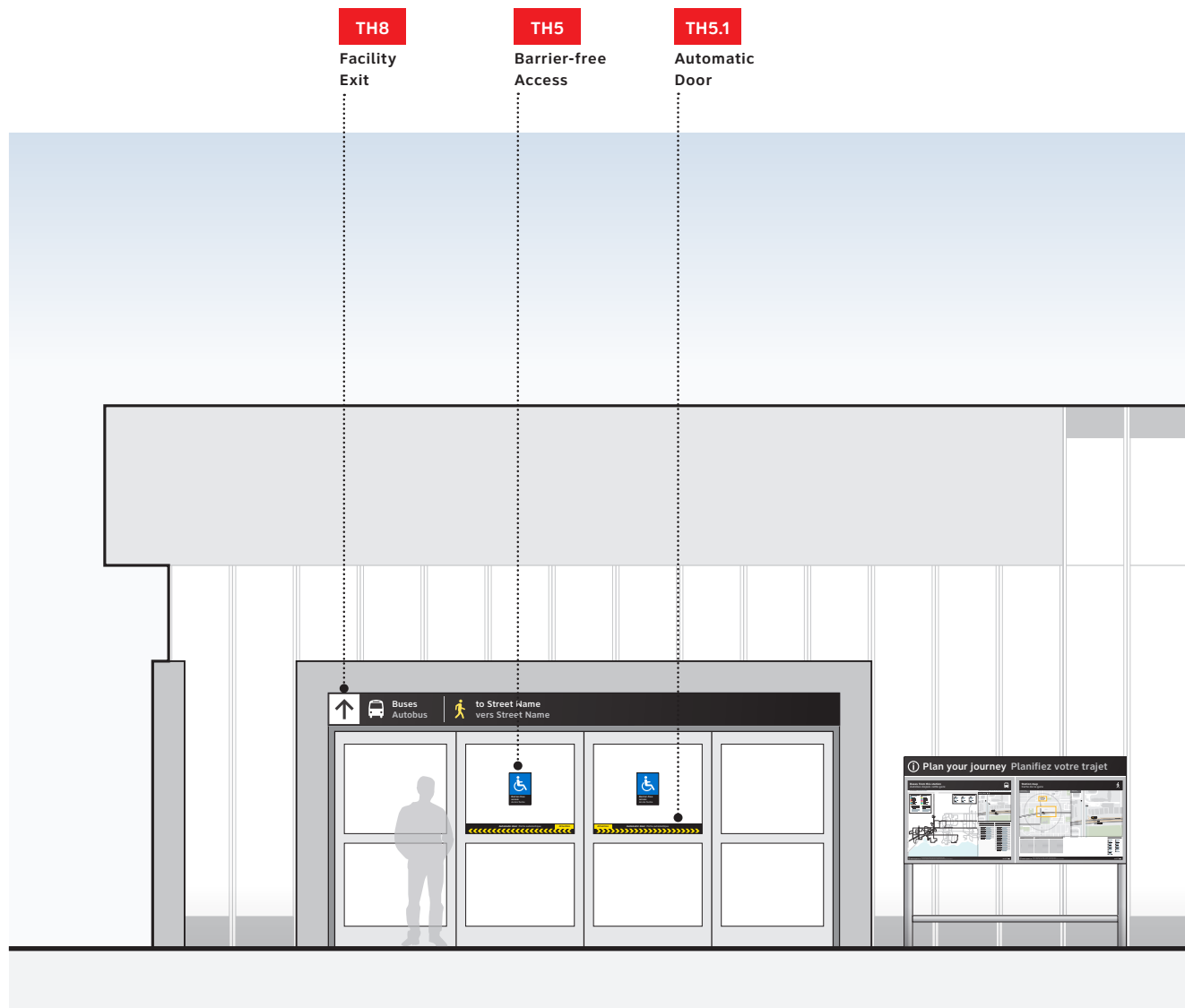


A 4m or 6m tall pedestrian lollipop shall be used at light-rail stops depending on the context and placement in relation to street lights and traffic lights.

Typical station building exit

A TH8 Facility Exit sign is typically located above the doors of a station exit, on the reverse face of the TH4 Facility Entrance sign.

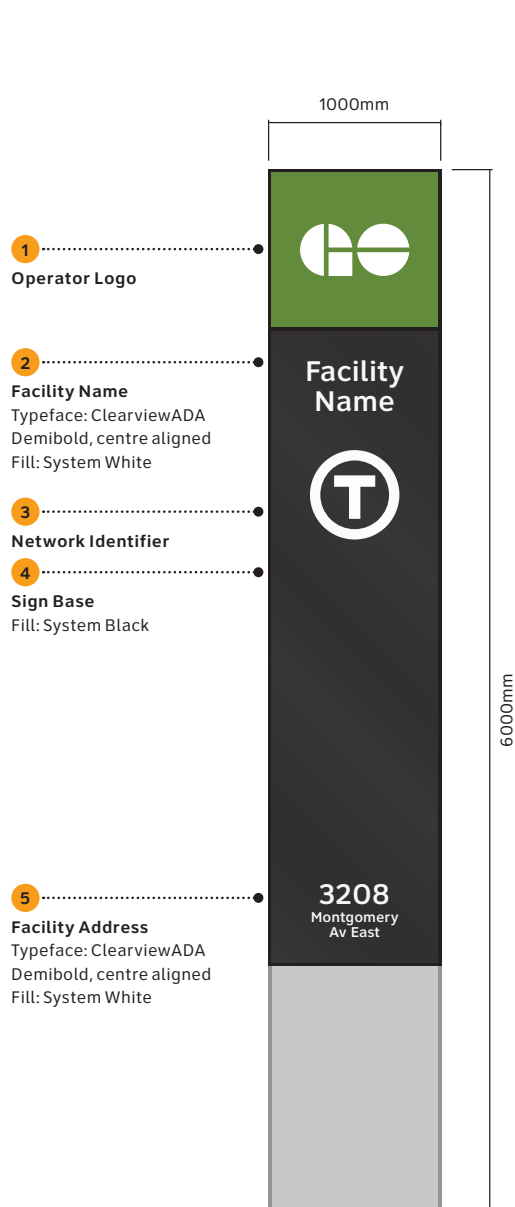
This is a typical approach. Due to differing architectural layout and user types, facilities will require different combinations of signs to effectively identify thresholds.



Additional information supporting the onward journey from station buildings shall be provided by maps/diagrams in information hubs located in proximity to facility exits.

TH1.1	Facility Beacon: Vehicular Totem		
This Facility Beacon is a large sign that is typically used to highlight the presence of a transit facility from distance. It includes the facility address at the point of access from the municipal right-of-way.		Scalable	
		No	
Note: signs are double-sided.		Standard sign size	
See TH2.1 for requirements around operator logos and facility name typesize.		620 (w) × 3870/4435/4157 (h) mm	
		Relevant Graphic Standards	
		4.2.1 Core palette	p114
		4.4.1 Network Identifier	p130
		4.4.2 Operator logos	p131
		Relevant Graphic Applications	
		5.3 Maps and diagrams	p206
		Product Approach	
		See Sign Implementation Manual for design intent drawings	

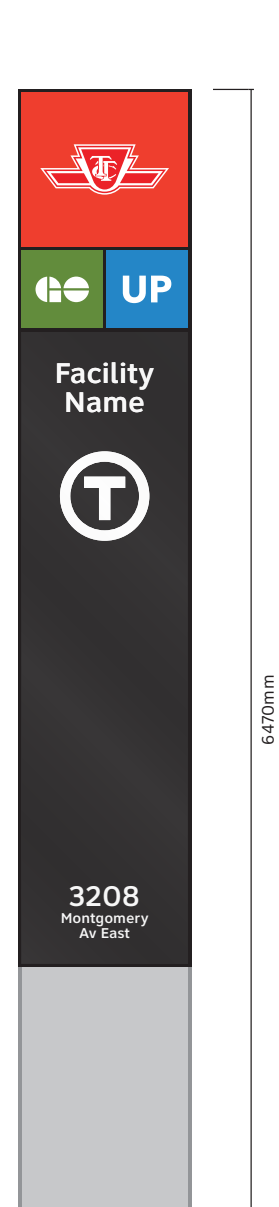
Single-operator version



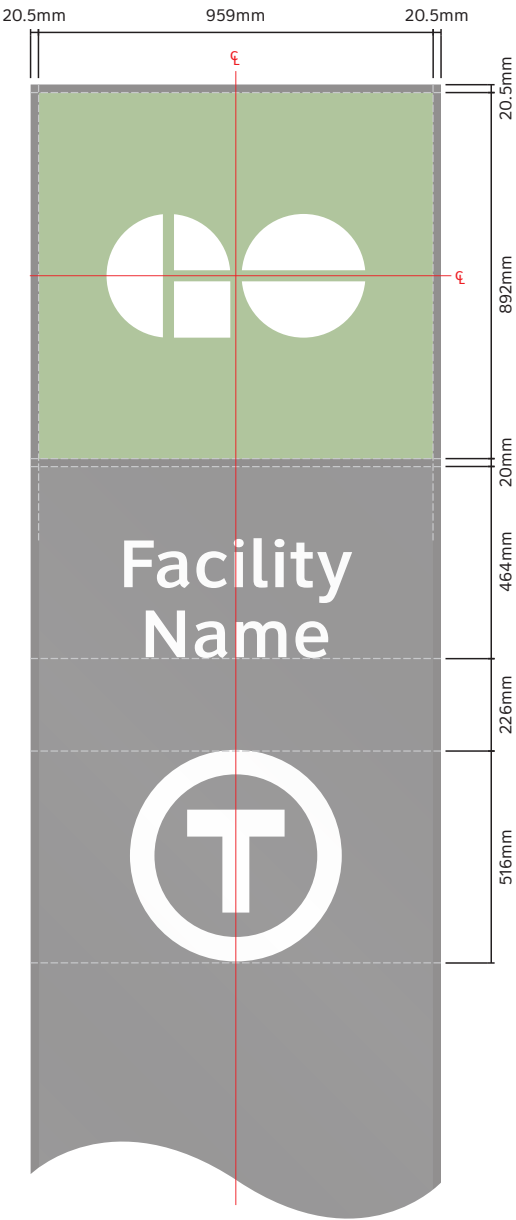
Two operators



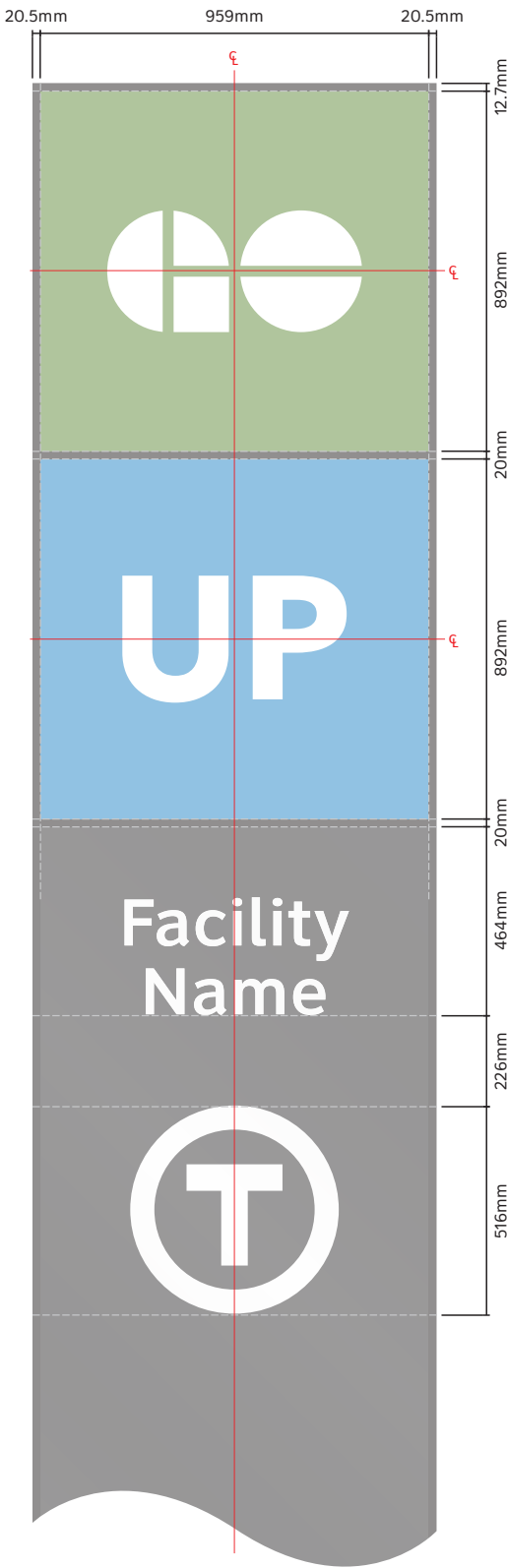
Three operators



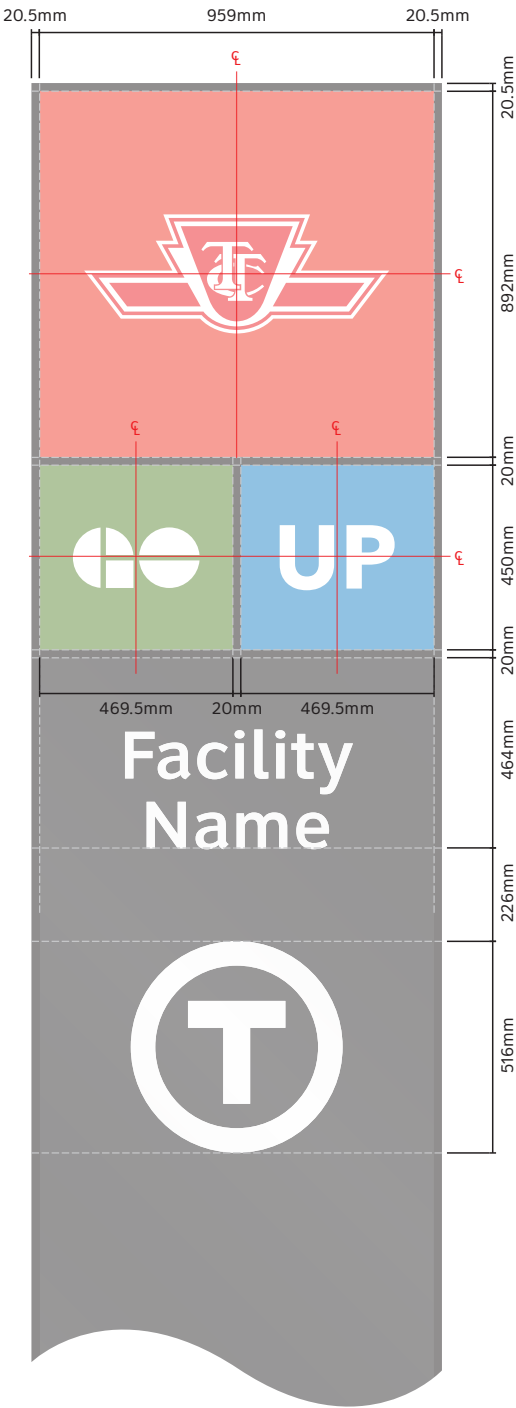
Header (one operator)



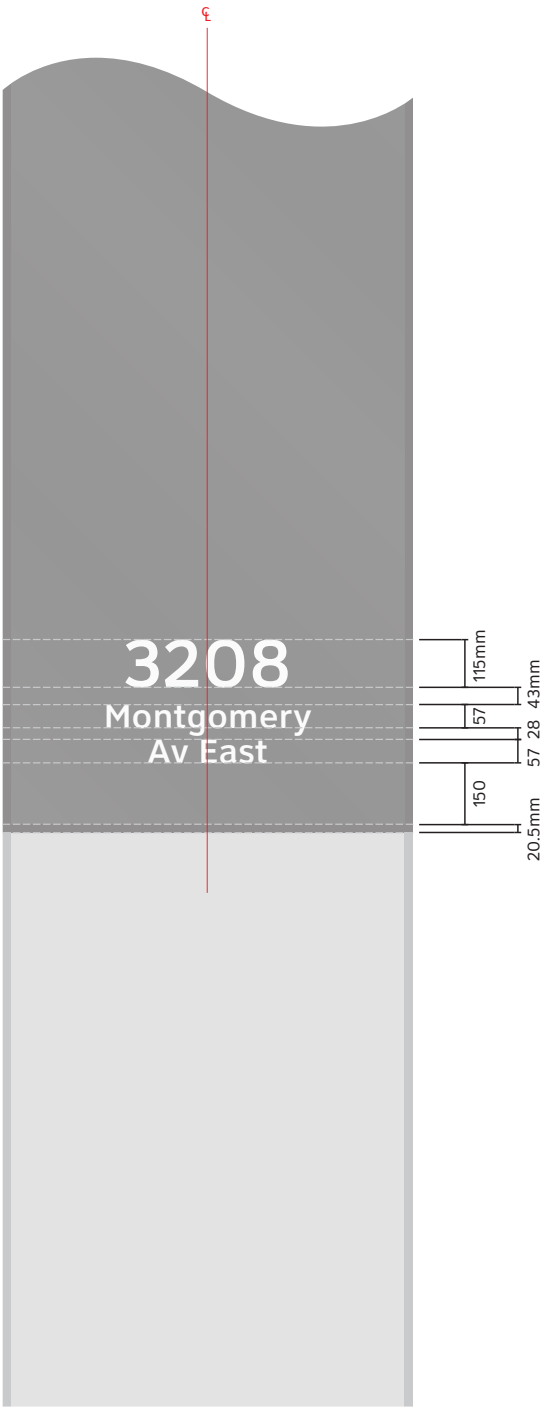
Header (two operators)



Header (three operators)



Graphic panel



TH1.2 Facility Beacon: Vehicular Lollipop

This Facility Beacon is a large sign that is typically used to highlight the presence of a transit facility from distance.

Note: signs are double-sided.

The design of this sign follows the same layout as the header from TH1.1.

Scalable
No

Standard sign size
1000 (w) × 6000/6912/6470 (h) mm

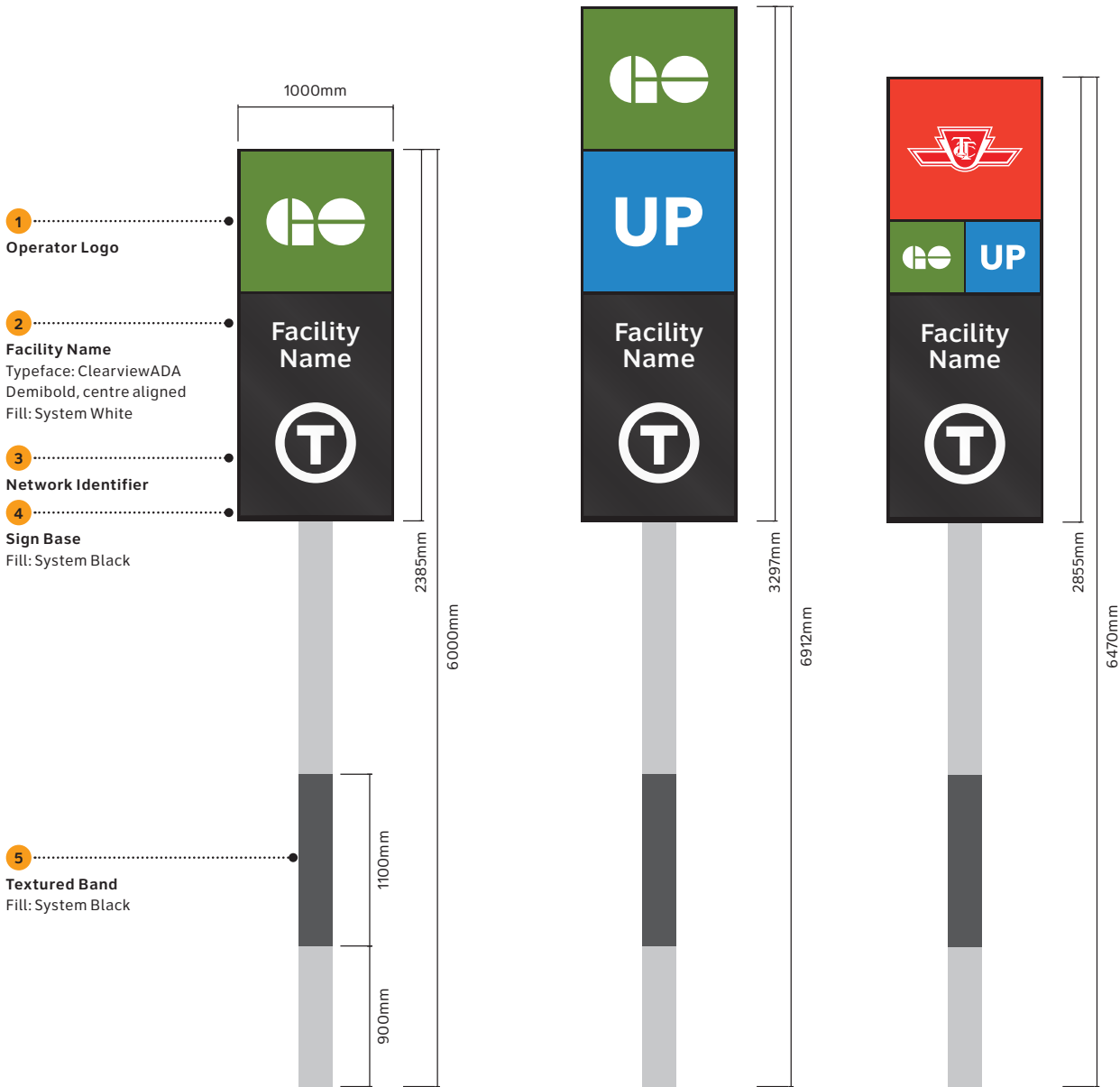
Relevant Graphic Standards		
4.2.1	Core palette	p114
4.4.1	Network Identifier	p130
4.4.2	Operator logos	p131

Product Approach
See Sign Implementation Manual for design intent drawings

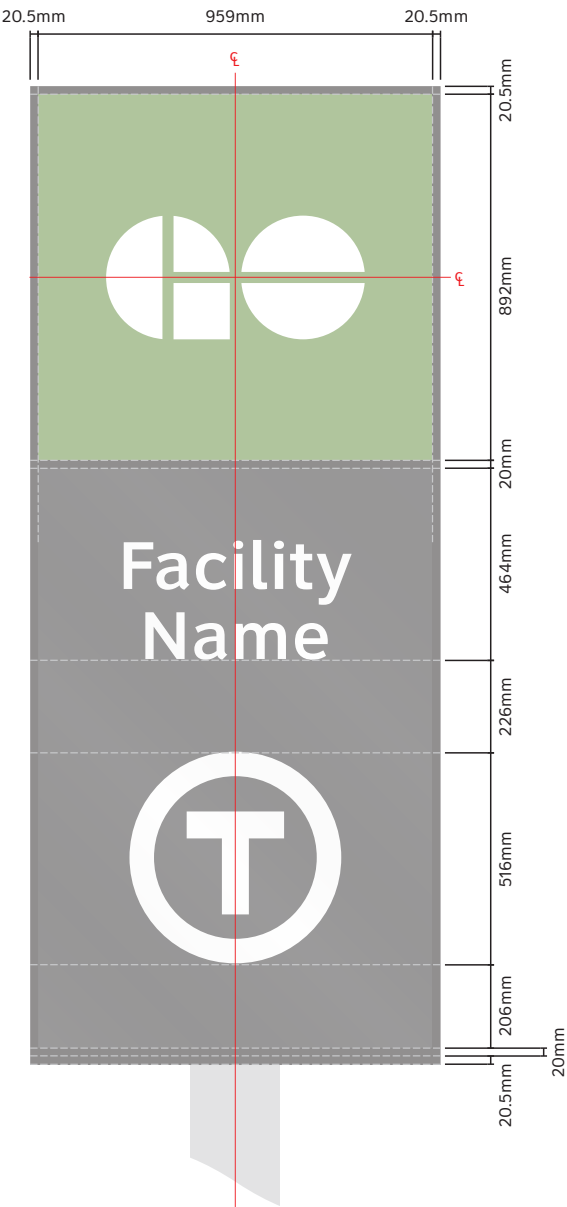
Single-operator version

Two operators

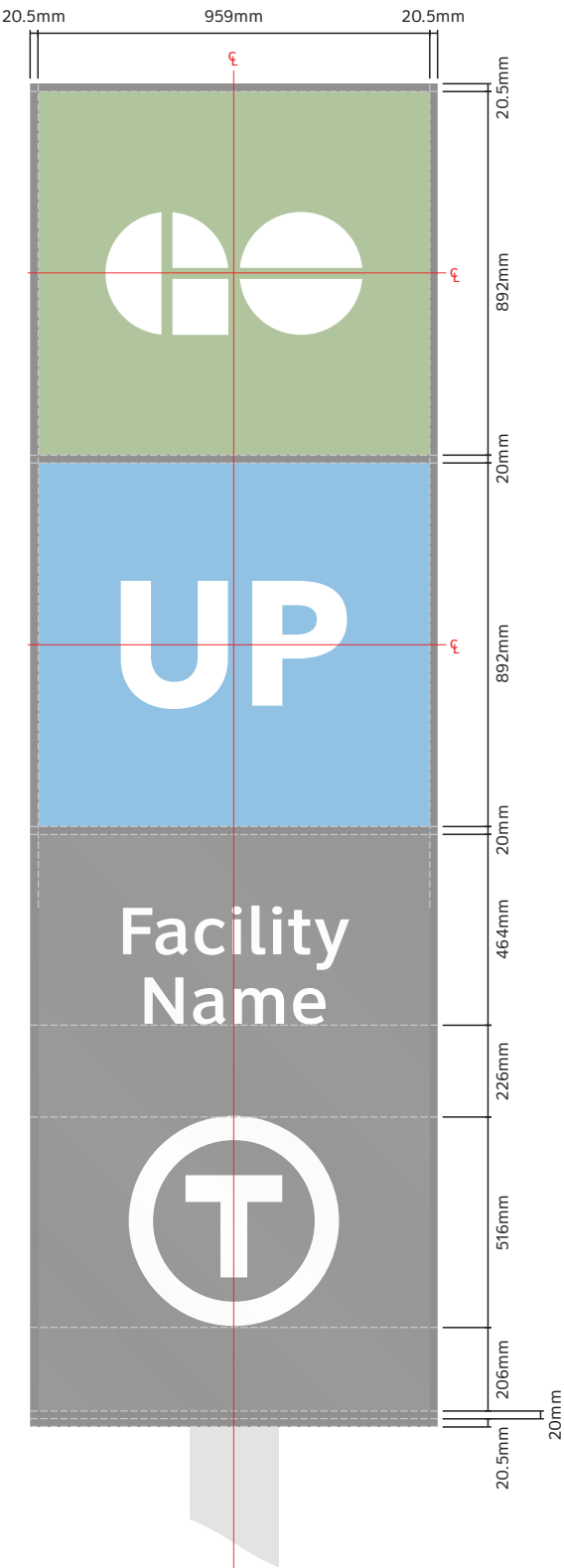
Three operators



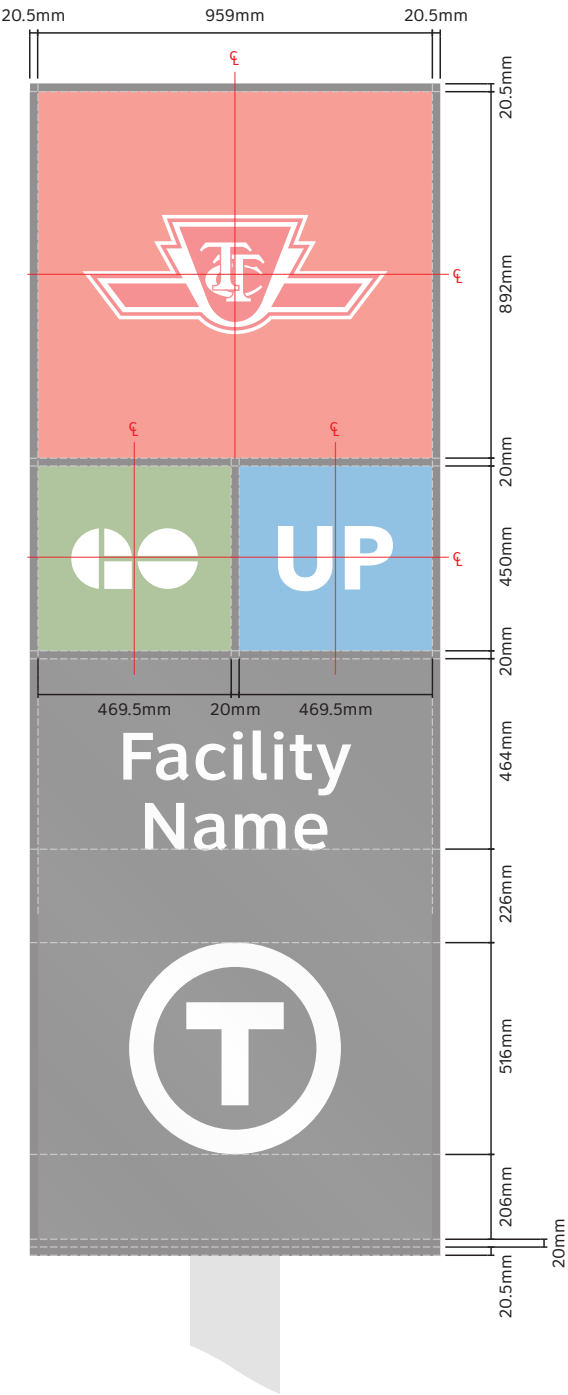
Header (one operator)



Header (two operators)



Header (three operators)



TH2.1 Facility Beacon: Pedestrian Totem

This Facility Beacon is a large totem sign that is typically used to highlight pedestrian entrances and direct users to transit facilities.

Note: signs are double-sided.

Scalable
No

Standard sign size
620 (w) × 3870/4435/4157 (h) mm

Relevant Graphic Standards

4.2.1	Core palette	p114
4.4.1	Network Identifier	p130
4.4.2	Operator logos	p131

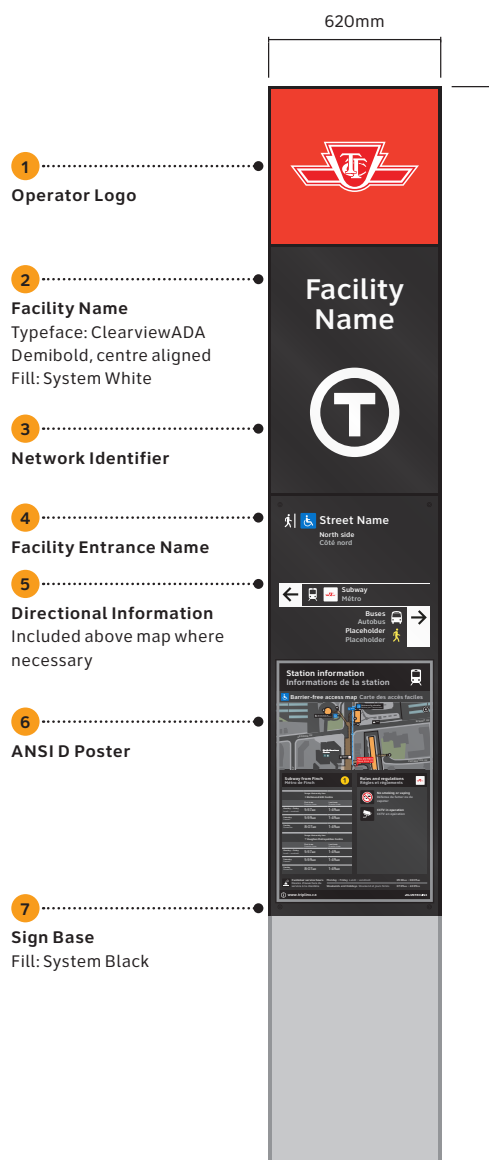
Relevant Graphic Applications

5.3	Maps and diagrams	p206
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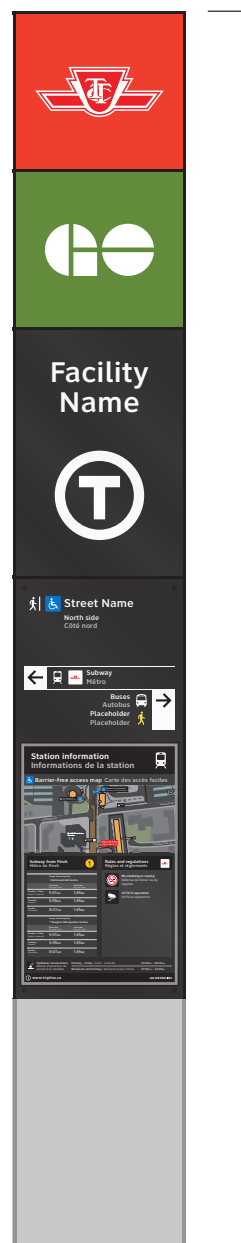
Product Approach

See Sign Implementation Manual for design intent drawings

Single-operator version



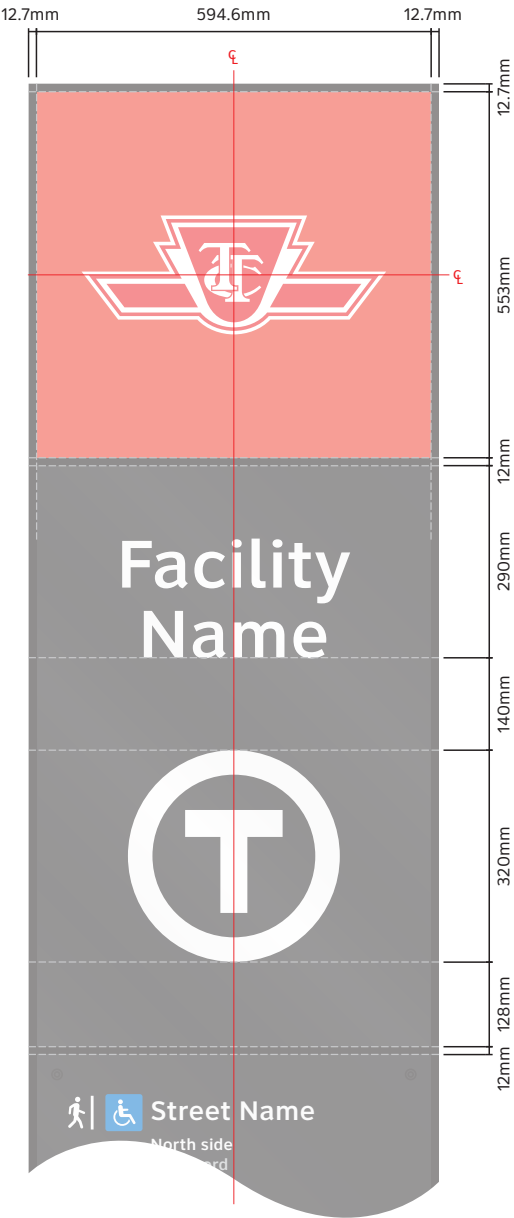
Two operators



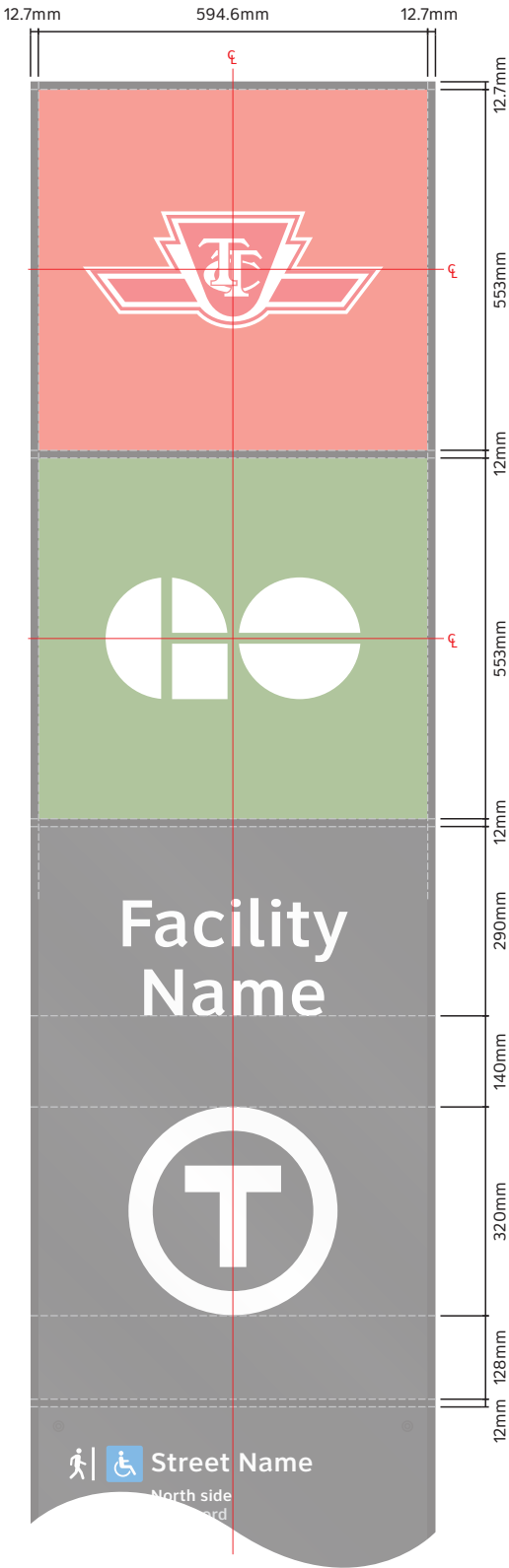
Three operators



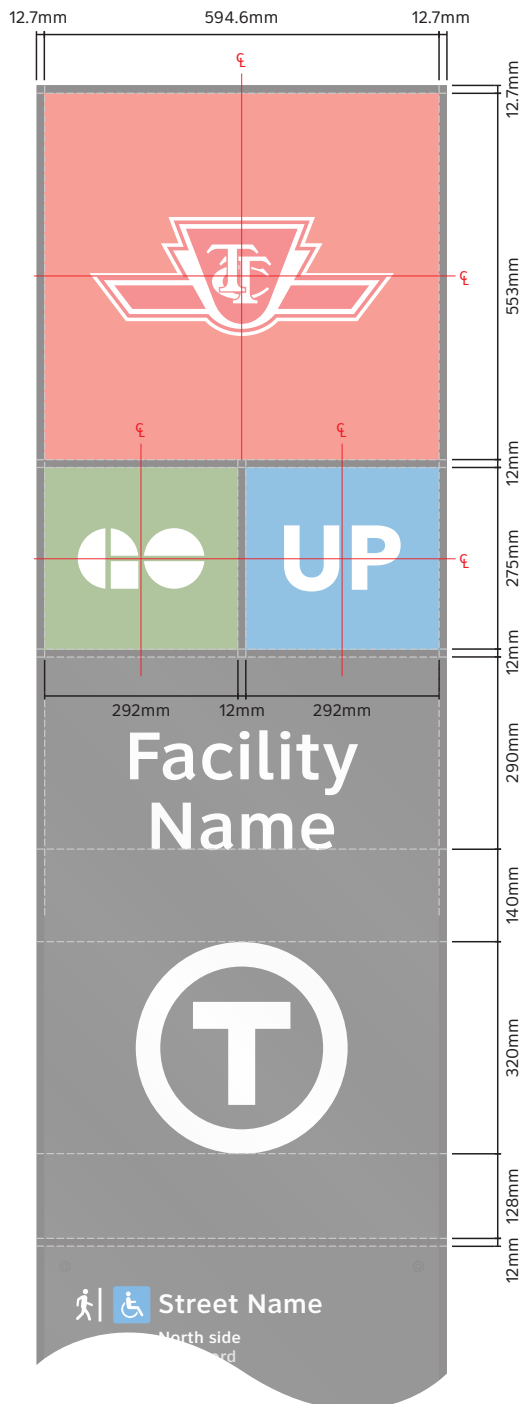
Header (one operator)



Header (two operators)



Header (three operators)



Facility name sizes

One of four type sizes shall be used for the facility name, set in the largest possible size while fitting within the 594.6mm width. The type sizes indicated below are for pedestrian totems. These type sizes shall be scaled up accordingly to the width of the vehicular totem. The facility name shall be centred in the space between the identifier and the bottom of the operator logos.



Extra Large
350pt (82.5mm Cap height)
Leading: 350pt
Maximum two lines



Large
300pt (70mm Cap height)
Leading: 300pt
Maximum two lines



Medium
255pt (60mm Cap height)
Leading: 255pt
Maximum three lines



Small
202pt (47.5mm Cap height)
Leading: 202pt
Maximum three lines

Operator logos

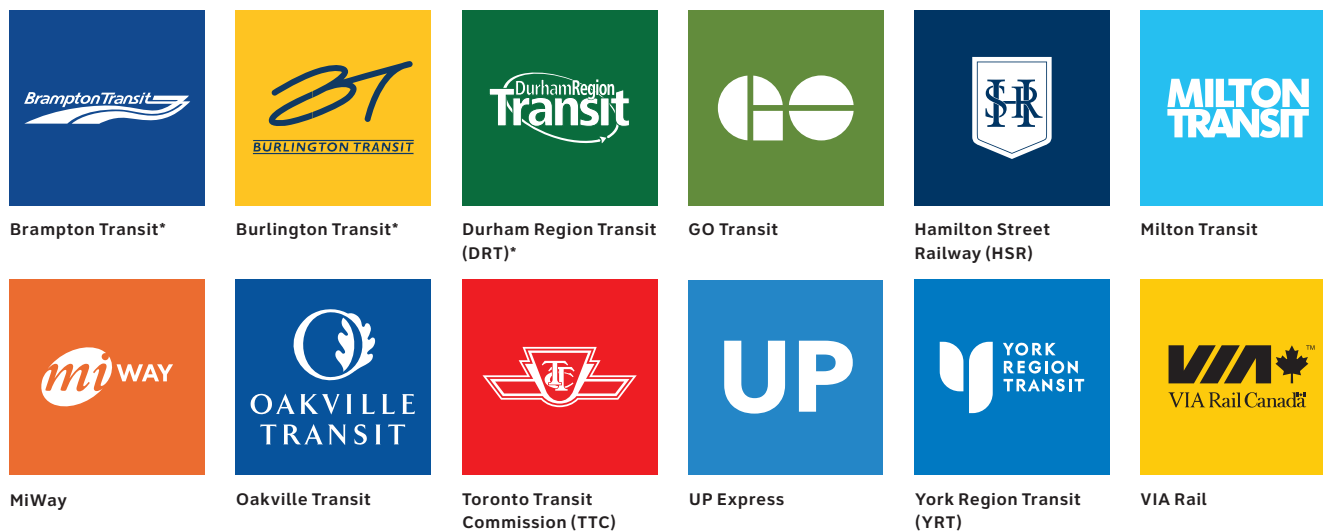
Operator logos on TH signs are loosely based on the 'square modules' as defined in Section 4.4.2, modified to fit within the 594.6(w) x 553(h) mm or 292(w) x 275(h) mm coloured box.

TH signs are the only application where operator logos shall be a mono-colour version appearing on a coloured background. Some colours for each operator logo background are defined in Section 4.2.4.

Below are examples of operator logos on their coloured backgrounds as they appear on TH signs.

An asterisk (*) below indicates that the operator logo has been modified for the purposes of this application. These designs are representative only.

The design and application of operator logos and colours is under development. All operator logos and colours shall be confirmed with Metrolinx and the relevant operator prior to implementation.



Organization of operator logos

All TH signs shall include the logos of all operators that are present at that transit facility. However, depending on the size of the facility and/or the location of the sign, the order of the logos may differ.

Generally, at multi-operator stations, the first logo shown shall be the operator whose services may be accessed at that particular entrance. The order of operator logos shall be confirmed with Metrolinx prior to implementation.

Graphic panel

The graphic panel is a combined artwork file that includes the facility entrance name, directional messaging, and an ANSI D poster.

Facility entrance name

Includes the name of the entrance to the facility, with messaging consistent with other TH8 and DR1.1 signs that reference the same entrance.

The international symbol of access is included to indicate that the entrance is barrier-free. If the entrance is not barrier-free, direction to the nearest barrier-free entrance shall be provided in the directional information below.

Facility entrance name

Alignment: Left

Grows downward from consistent upper limit (48mm from top of graphic panel).

Directional information

Directional information points towards transit facilities, amenities and entrances. Operator logos shall be included with modal icons if the facility serves more than one operator.

Directional Information

Alignment: Left/Right

Grows upward from consistent bottom limit (50mm from top of ANSI D panel).

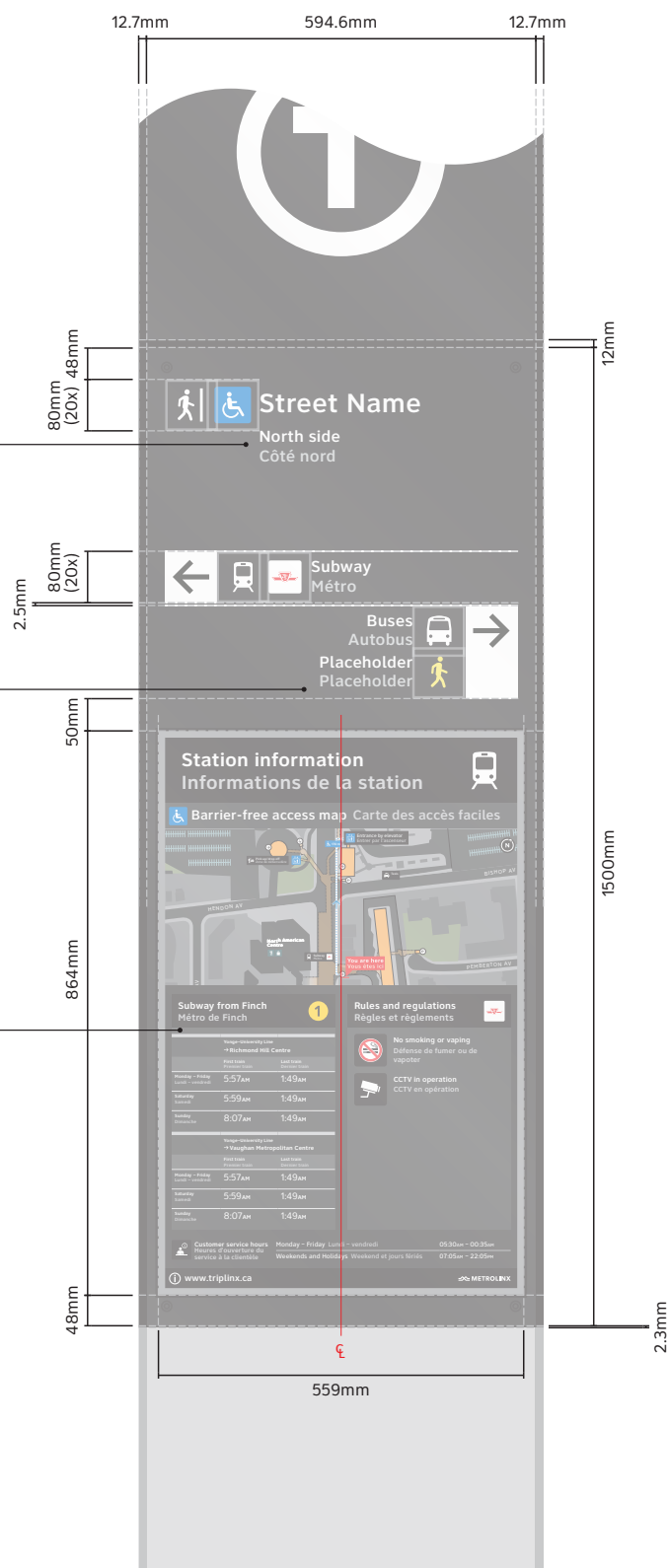
Refer to vertical layout in DR1.1

Directional Signs. Note that unlike in Directional Signs, a 0.6x System Black outline is not added to the white boxes around arrows.

ANSI D panel

ANSI D panel

The ANSI D panel can hold a variety of different posters, including maps, regulatory information, or station information. The panel shall hold information that is most relevant to the customer based on the sign's context and location in the customer's journey. The panel shall be designed to allow for content to be replaced, for example, as part of a regular mapping update cycle.



Directional Information only

For instances where a map is not required on a Facility Beacon, such as when mapping is unavailable or the lower part of a Beacon is obscured by a low wall or railing, the area shall be left blank.

If no directional information is required, then a TH2.2 sign shall be used instead.

Digital screen option

The Facility Beacon may accommodate a digital screen in place of the directional info and map.

Refer to the Dynamic Customer Information Standard for digital screen types. Metrolinx shall be consulted on approach to digital screens prior to implementation.



TH2.2 Facility Beacon: Pedestrian Lollipop

This Facility Beacon is a sign that is typically used to highlight the presence of a transit facility from distance, primarily for pedestrians.

The design of this sign follows the same layout as the TH3.2 and the header from TH2.1.

Note: signs are double-sided.

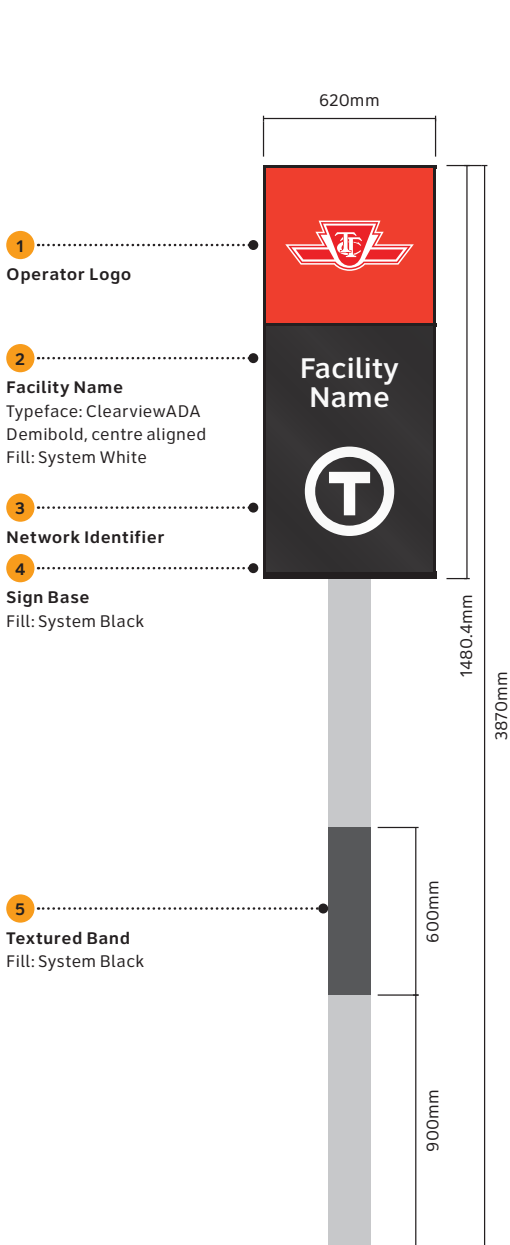
Scalable
No

Standard sign size
620 (w) × 3870/4435/4157 (h) mm

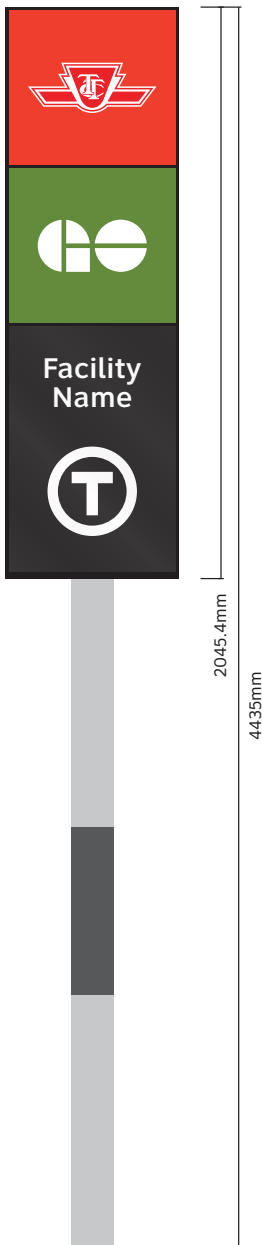
Relevant Graphic Standards		
4.2.1	Core palette	p114
4.4.1	Network Identifier	p130
4.4.2	Operator logos	p131

Product Approach
See Sign Implementation Manual for design intent drawings

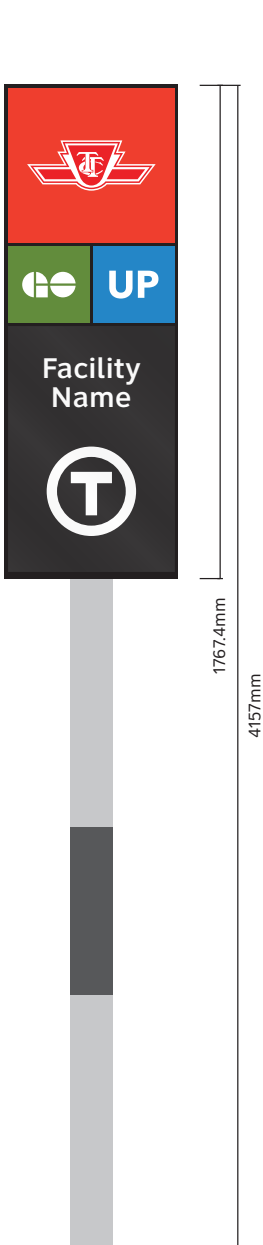
Single-operator version



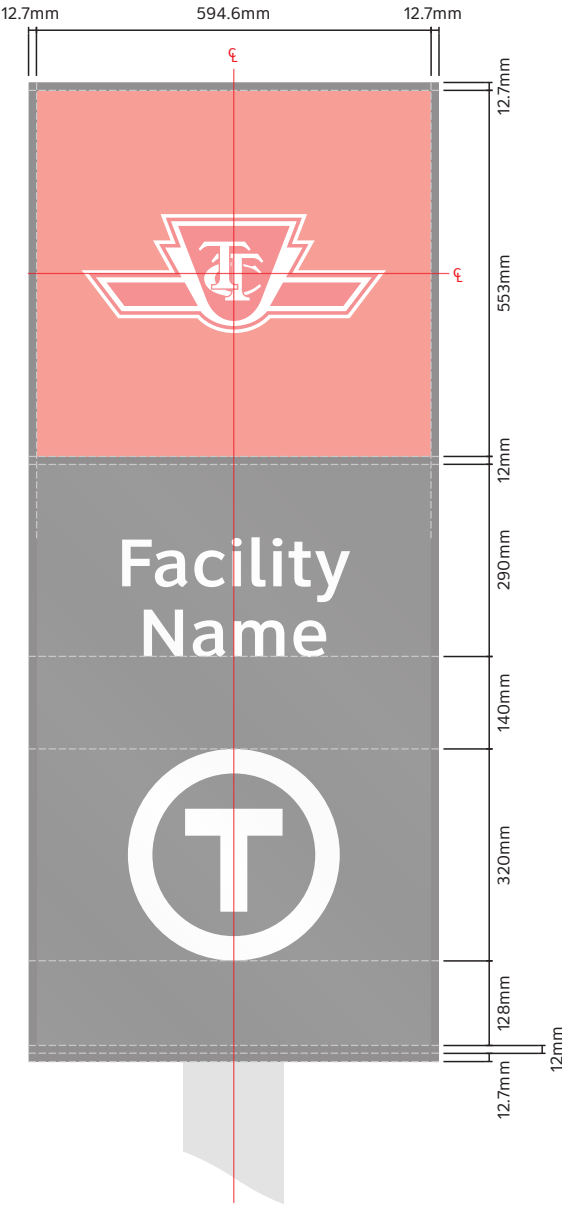
Two operators



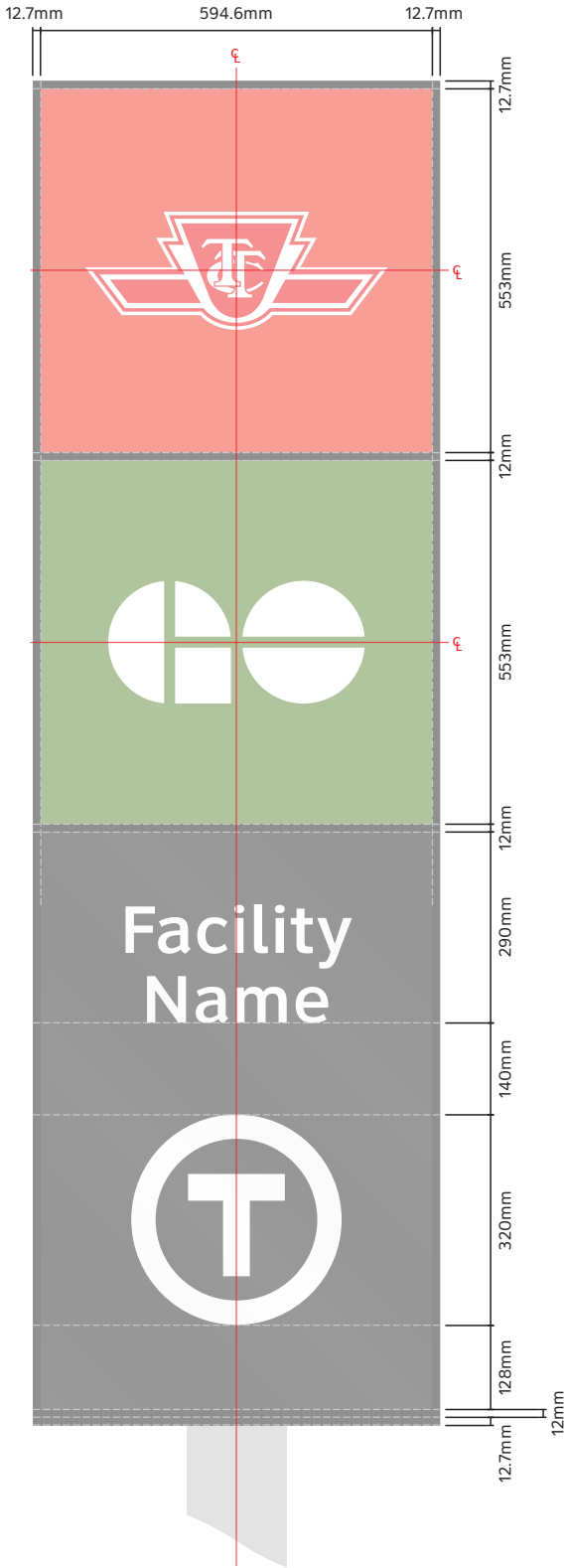
Three operators



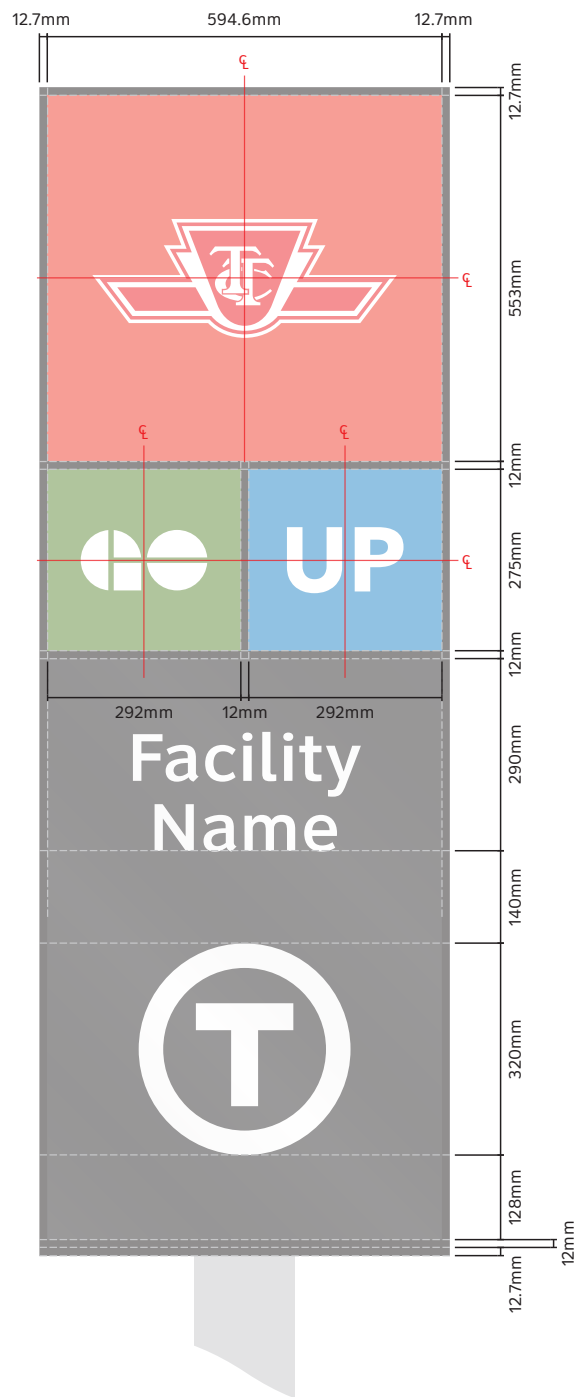
Header (one operator)



Header (two operators)



Header (three operators)



TH3.1 Facility Marker: Wall-Mounted

The Facility Marker is a sign mounted on the exterior of the transit facility building, typically adjacent to the entrance. It shall only be located on the main transit facility building, not connected buildings, such as parking structures.

The operator logo appears above the identifier at facilities with one or two operators.

Scalable
Yes

Standard sign size
Variable (w) × Variable (h) mm

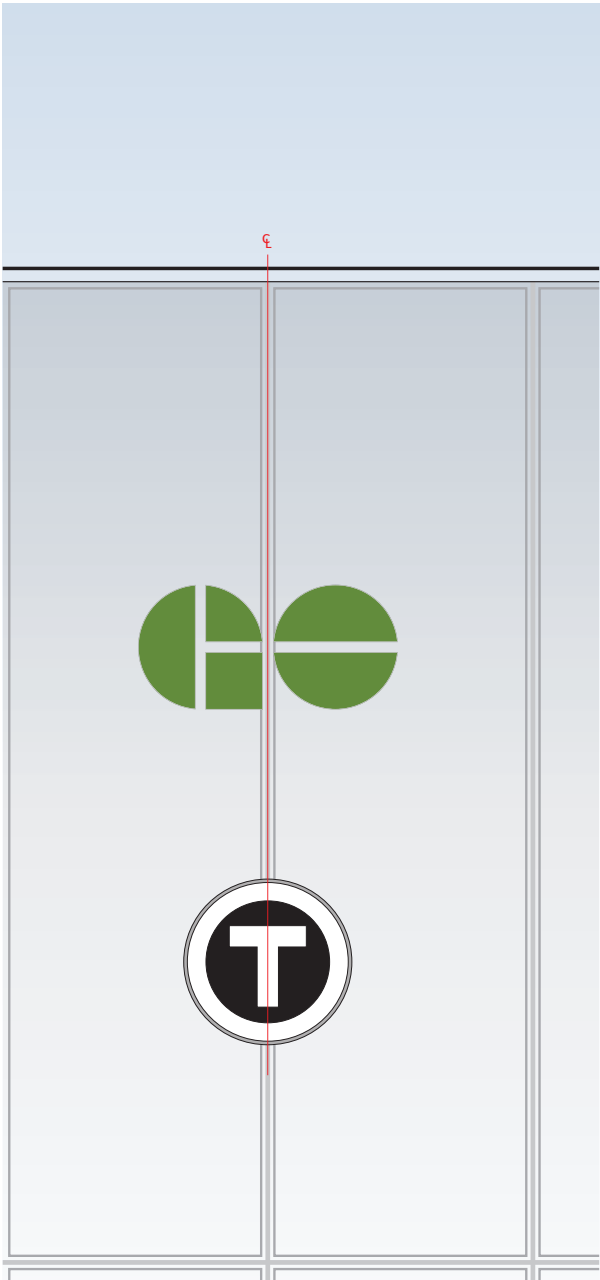
The size of the identifier and logos will vary depending on factors such as architectural context, visibility, and placement of the sign.

Relevant Graphic Standards		
4.2.1	Core palette	p114
4.4.1	Network Identifier	p130

Product Approach
See Sign Implementation Manual for design intent drawings

Metrolinx shall be consulted on the inclusion and application of this sign prior to implementation.

Single-operator version

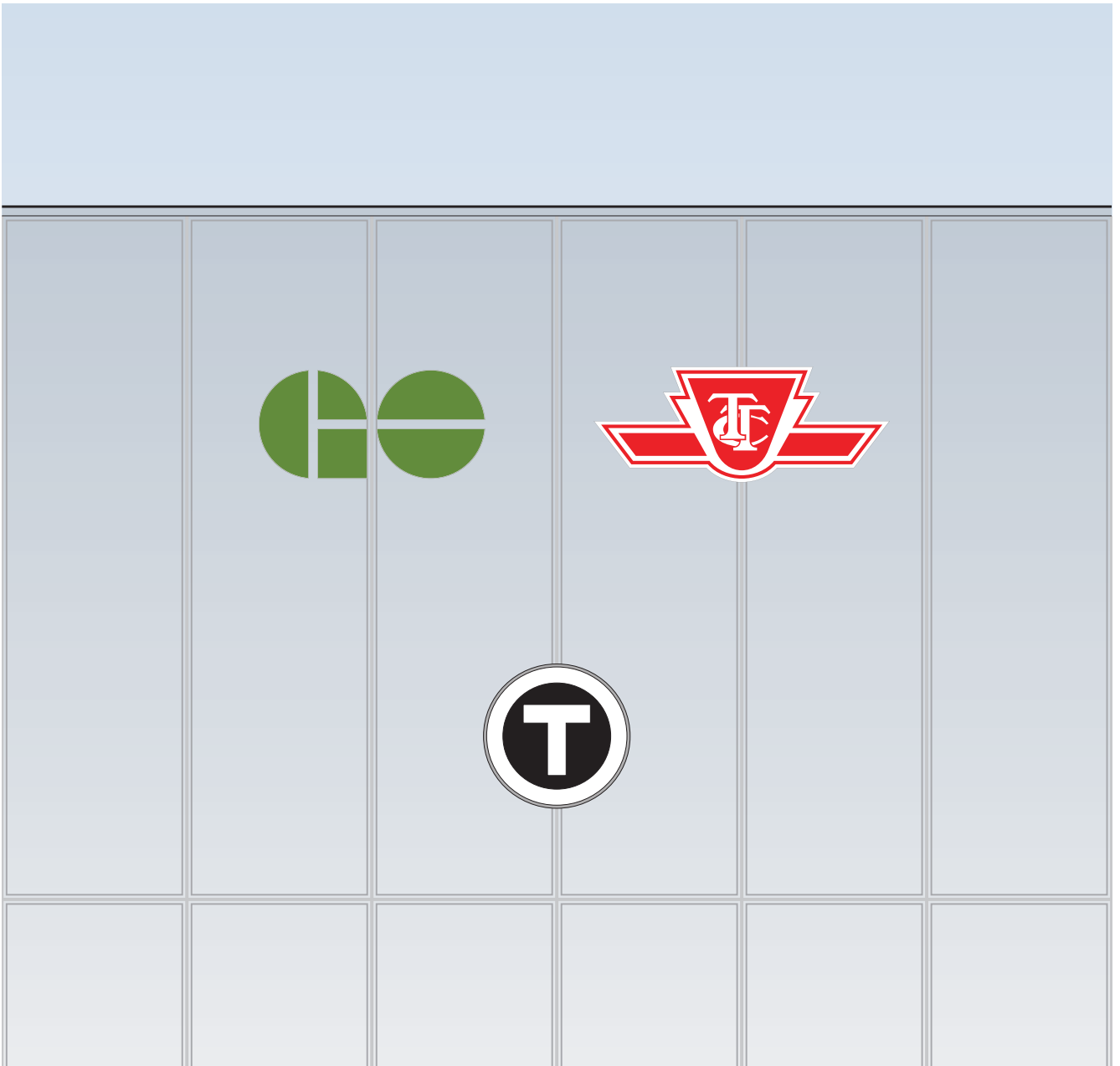


Two operators



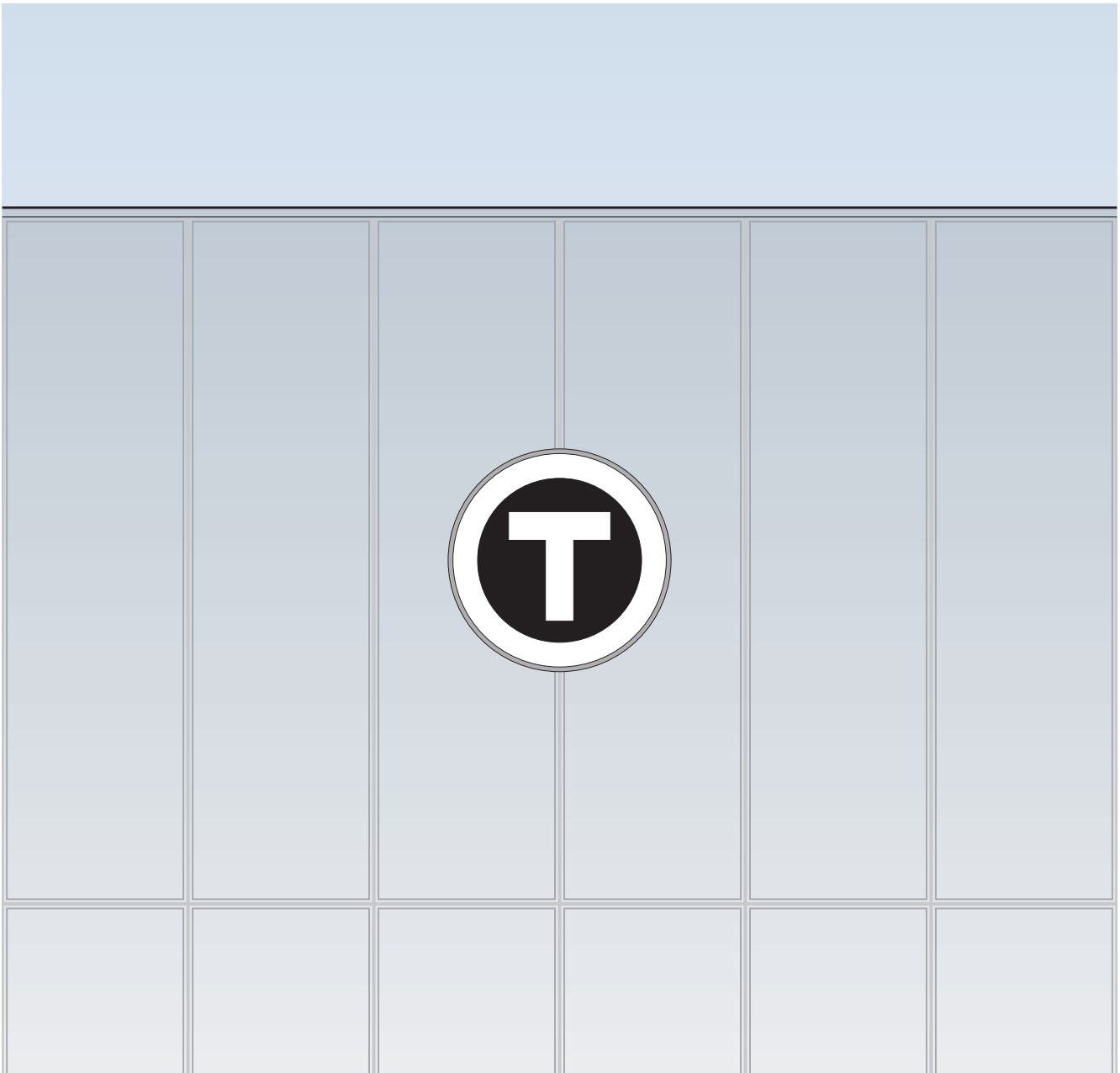
Horizontal arrangement

Two transit operator logos can also be arranged horizontally as shown. The distance between the two logos shall consider the facade material and mounting methods on a site-specific basis.



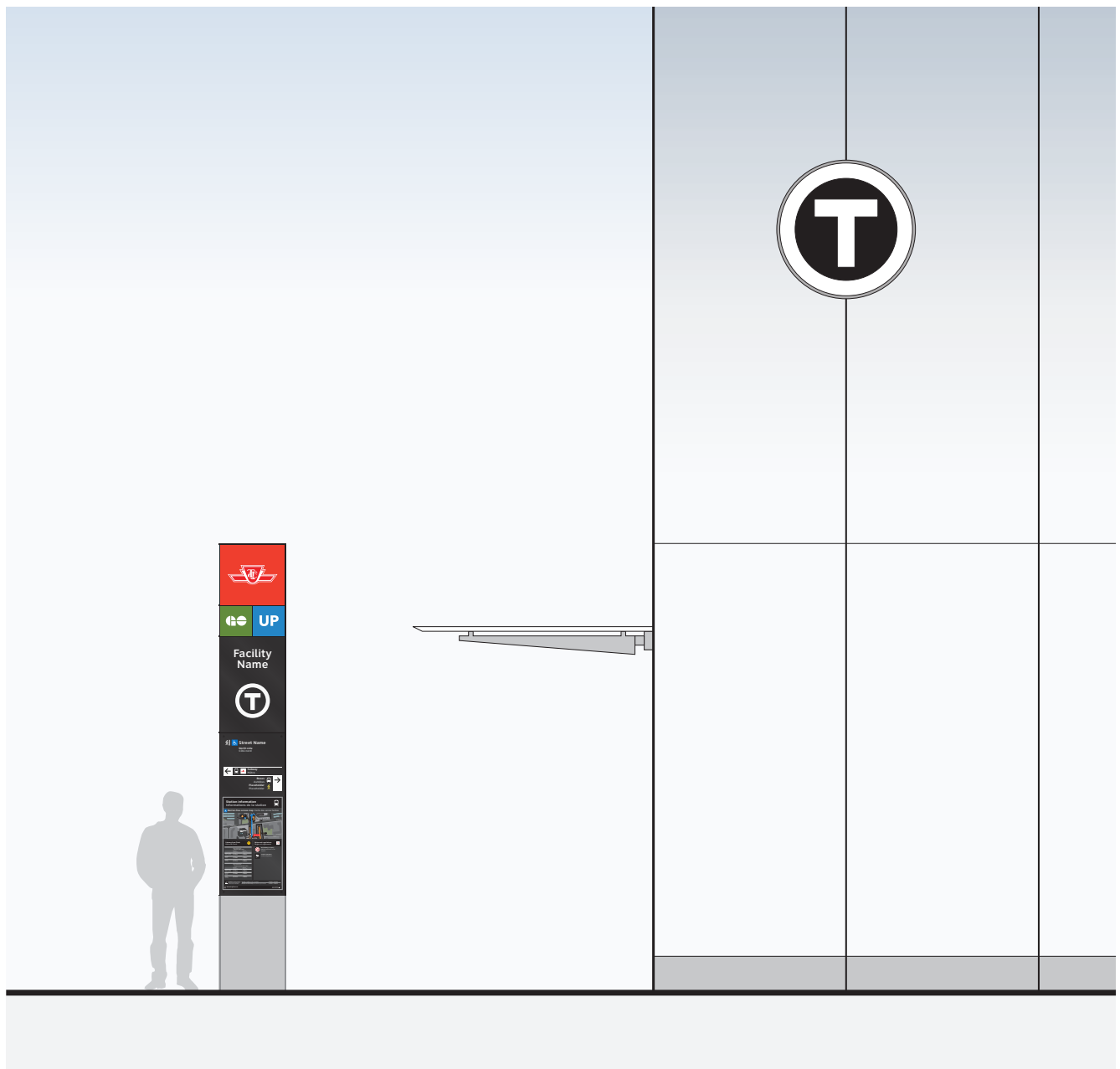
At facilities with three operators

Generally, no more than two operator logos shall be shown above the identifier as part of a TH3.1 sign. Where a facility has three operators, only the identifier shall be wall-mounted.



Placement in relation to operator logos

While the TH3.1 sign shall be placed on walls where it can identify entrances to the transit facility, it shall also be placed where it can be seen with a TH1, TH2.1, TH2.2, or TH3.2 sign.



TH3.2 Facility Marker: Projecting

This Facility Beacon is a sign that is used to increase the visibility of a transit facility entrance for pedestrians.

The design of this sign follows the same layout as TH2.2 and the header from TH2.1.

Note: signs are double-sided.

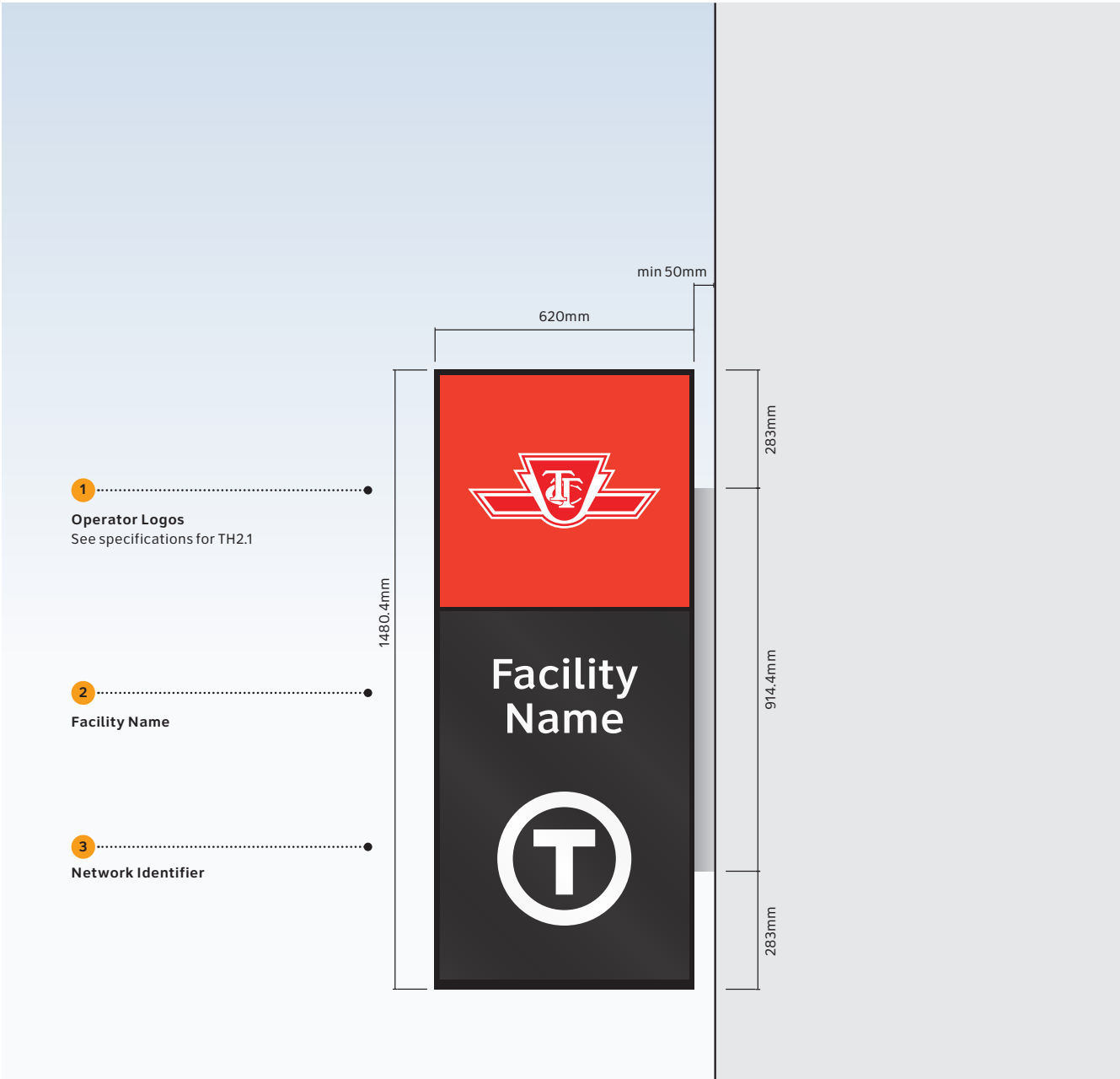
Scalable
No

Standard sign size
620 (w) × 1480.4/2045.4/1767.4 (h) mm

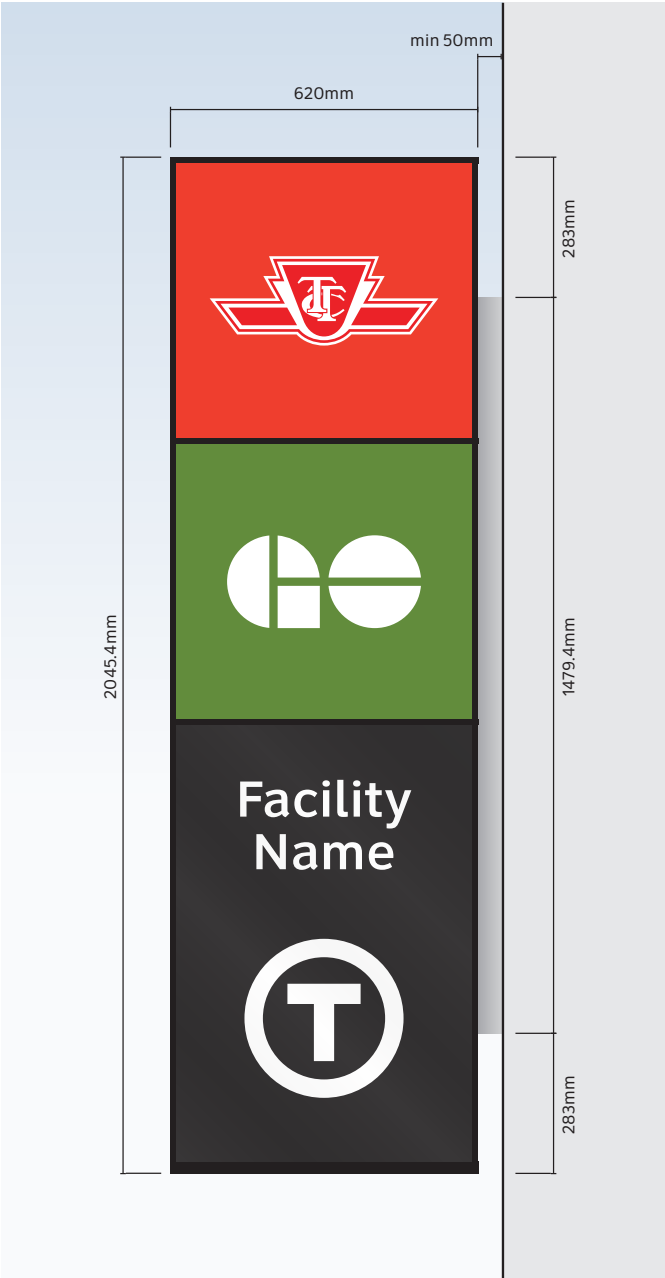
Relevant Graphic Standards		
4.2.1	Core palette	p114
4.4.1	Network Identifier	p130
4.4.2	Operator logos	p131

Product Approach
See Sign Implementation Manual for design intent drawings

Single-operator version



Two operators



Three operators



3.0 Sign Implementation
Manual pages

**3.4.11 Facility Beacon:
Vehicular Totem**

Relevant sign types

TH1.1

Overall sign dimensions (mm)

D 305

W 1000

H 6000/6912/6470

Description

Multifunctional beacon sign featuring network operator logos, facility name, operator logos, and facility address.

Materials and construction

Refer to design intent construction drawing(s).

Power, lighting and data

Power supply required for sign, to be concealed within sign structure.

Finishes

Refer to design intent construction drawing(s).

Colours

Refer to design intent construction drawing(s).

Installation

Please refer to Section 4.0 Mounting Guides.

Design intent construction drawing(s)

01. FB REND

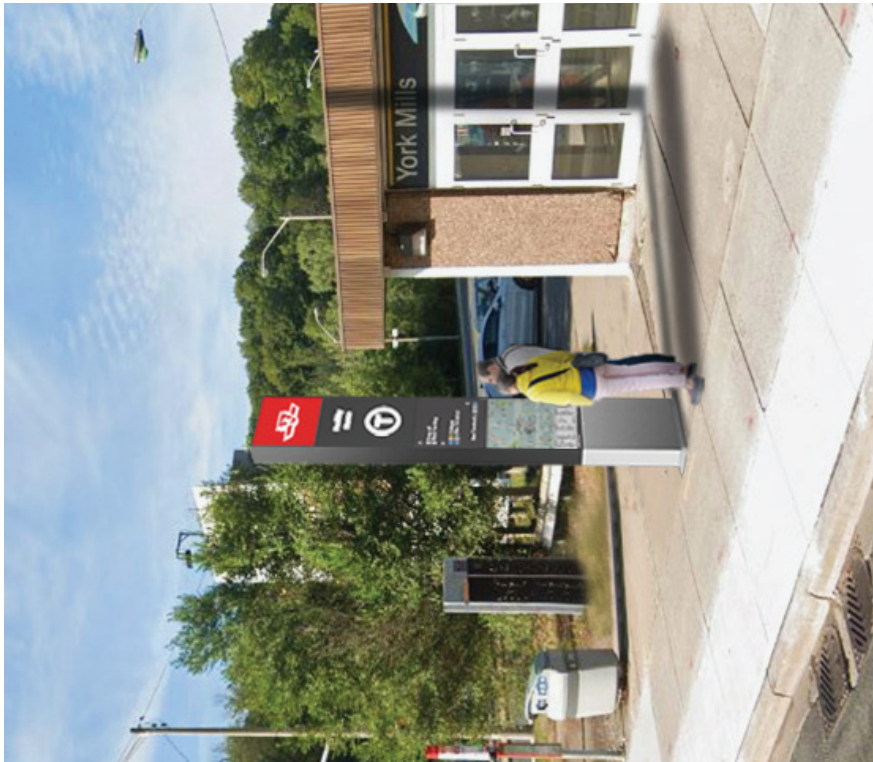
02. FB ILLUM

03. FB GEN SPEC

01. FS TH1.1

02. FS TH1.1

03. FS TH1.1



Location indicative only.



GENERAL NOTES

Design intent

Design intent
This drawing shows design intent only, no parts should be constructed from it

Metric

All dimensions shown are in metres and/or millimetres unless otherwise noted

Content

Content
All graphic content shown should be considered indicative. The use of the network identifier graphic is indicative where used

Eleven

Finishes
For finish detail, please refer to the supplied standard finishes listing

Mounting

Manufacturer to design structural and fixing

structural and fixing elements

SPECIAL NOTES

Finish
The details shown are indicative and should be treated as best practice

[illegible]

Background

The T-Beacon product range is a system of identifier signs for installation outside transit hubs and stations in Toronto and the GTHA.

The products provide transit customers with information on location, transit operators/ services, local area mapping, and other supporting travel information.

The details in this package shall provide a generic specification for potential suppliers with guidelines for development of the final product details.

Suppliers shall be expected to develop the products in accordance with this document but are encouraged to suggest alternative approaches with supporting evidence if they provide cost savings or other potential advantages for Metrolinx.

Any alternative approaches, and the final manufacturing drawings, shall be approved by Metrolinx.

Construction principles

The general construction of each product includes a galvanised mild steel frame, with extruded aluminium sides, and cladding panels of various materials. Please see individual product pages for further details.

Many components are shared between each product type. The designs indicate methods that the items can be accessed for maintenance.

All exterior fixings shall be high security 'tamper-proof'.

Materials & Finishes

All materials and finishes, including printed media, shall be durable and robust, dimensionally stable, and UV resistant. Materials shall be suitable to withstand the environmental conditions in Toronto, summer, and winter, and proven to be suitably resistant to vandalism.

Suppliers are to provide datasheets, expected working lifetimes, and any warranties for finishes and components.

The mapping panels are toughened low iron ultra-clear glass panel of a minimal thickness of 5mm with suitable anti-reflective film. The supplier shall specify a suitable film/method to keep glasses together if it is damaged. This film/method shall not affect colour and clarity of prints inside it. A suitable waterproof neoprene or similar seal shall be applied around the perimeter of the panel, concealed around internal face. Content to be suitable rear applied, updatable grade, full colour UV stable digital print. Vinyl to be suitable off the shelf external grade cut 3M or Avery vinyl graphics with graffiti, pick, and reflection protection.

Visible fixings shall be coloured to match the surrounding panel.

Interfaces between any dissimilar metals shall be isolated to mitigate risk of galvanic corrosion.

Electronics & Illumination

All electronic items and cabling shall be suitably NEMA rated, or within separate NEMA rated housings, to remain operable if dust or water ingress occurs.

It shall be possible to safely isolate the unit eclectically via an easily accessible key protected panel.

All electronic components and installations shall comply with relevant safety and compliance standards and best practices. All parts safely earthed

The operator logo panels, location name and "T" logo are internally illuminated. Illumination is via LEDs. The supplier shall propose suitable LED modules and arrangements to provide adequate LUX levels for night-time legibility.

Illumination shall be even across illuminated surfaces with minimum luminance of 200cd/m sq. LED colour temp: Cool White 5000-5700k.

The supplier shall ensure no light bleed from illuminators through joints between panels

Digital Displays

The TH2.1 product shall have the facility to be fitted or retrofitted with a 42-43" backlit LCD Digital Display. Instead of the mapping panel, on one side of the product only. Not every TH2.1 product will have a digital display. The display is not a touchscreen.

The digital display, and associated drivers, modems and other electronics shall be housed within a bespoke NEMA rated housing, or themselves be suitable NEMA rated, to remain operable if dust or water ingress occurs.

Data for the digital display shall be provided wirelessly. Router positioned to receive signal high in unit behind Operator Panel.

The LCD display shall be high brightness suitable for outdoor use, with an additional or in-built protective outer screen to prevent vandalism. Suitable for use in temperature ranges found in Toronto.

The designs indicate an approach for including vents to allow fans to be integrated for cooling. Vents shall be fitted with suitable dust filters, that can be accessed for cleaning.

Product datasheets and any warranties to be provided.

Colours & Graphics

Black: To match PMS Process Black C
Silver: To match RAL 9006 'White Aluminium'
Operator logos: Colour(s) to match Pantones
Graphic artwork for the mapping panels will be

Structural Engineering

The supplier's final designs, engineering drawings, foundation & install details, groundworks, shall be checked and certified by an Ontario registered structural engineer.

Installations and groundworks shall comply with Metrolinx and relevant local and national standards.

Prototyping & Testing

The nominated supplier may be required to produce a prototype or prototypes as selected by Metrolinx for review prior to installation or roll-out.

Lighting levels and colours of illuminated aspects shall require testing and adjustment prior to approval.

The supplier may be requested to provide Metrolinx with samples of materials and finishes for approval

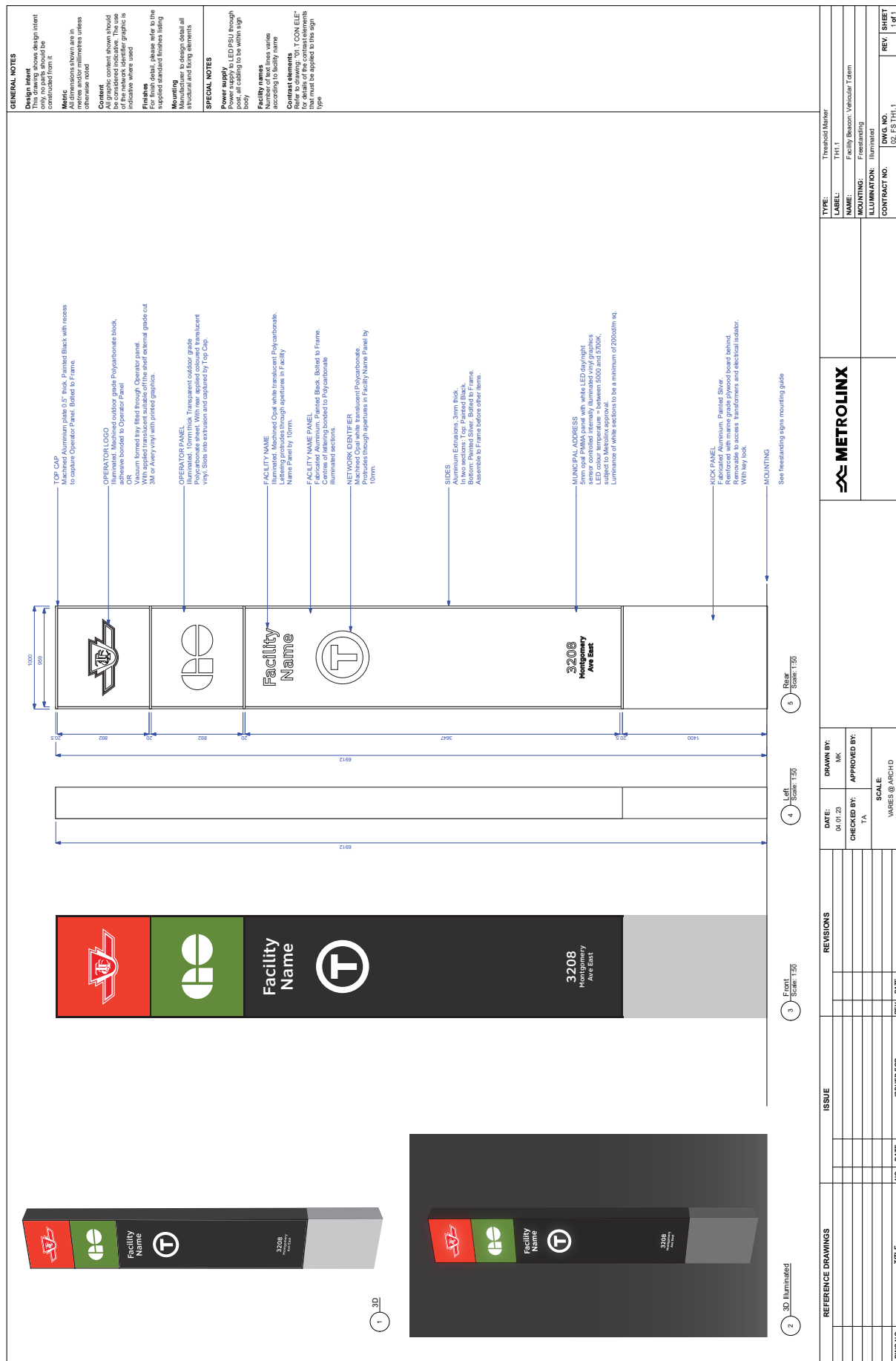
Intellectual property

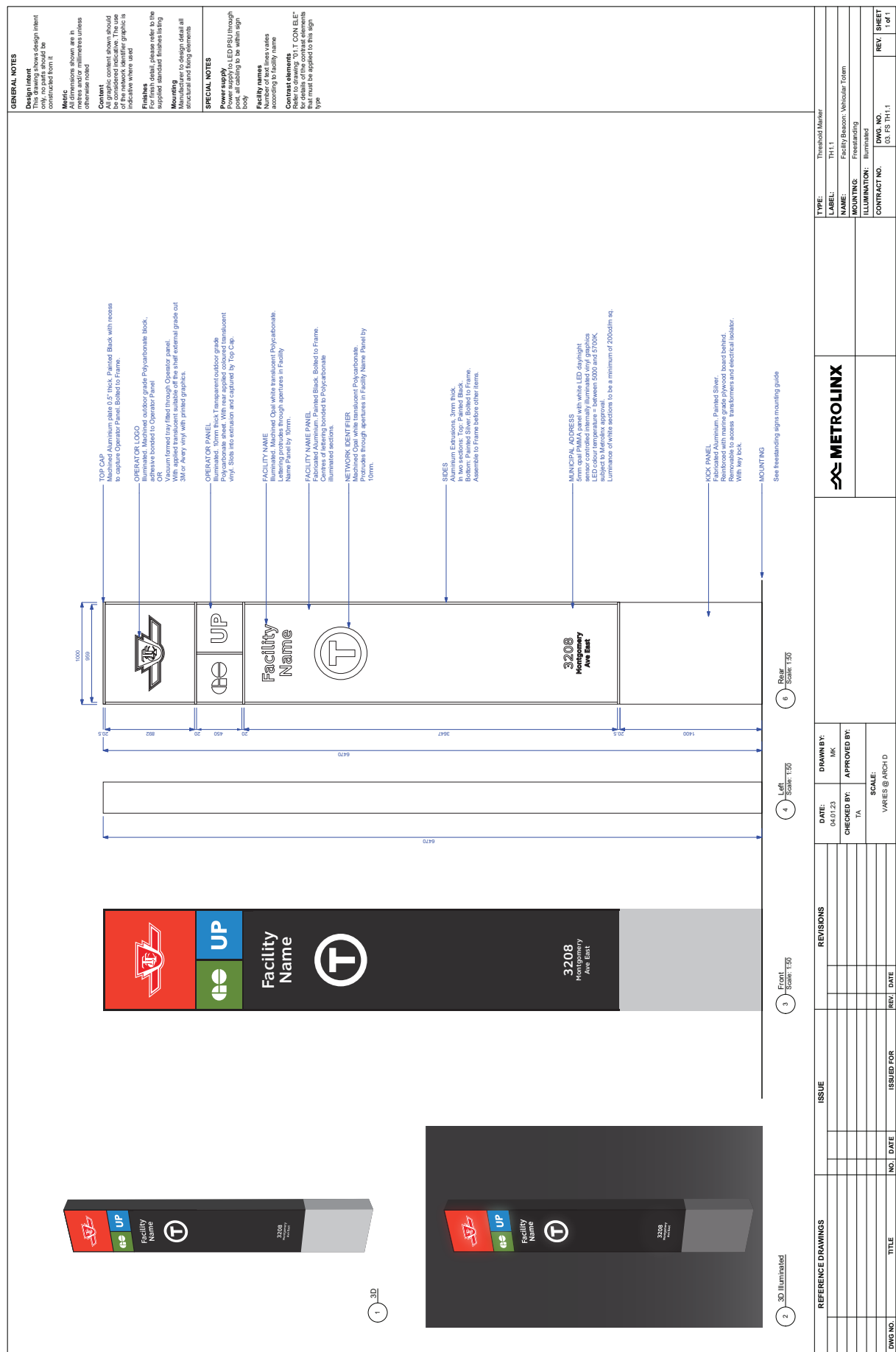
All intellectual property connected with the designs and products shall be assigned to Metrolinx, including any tooling connected with the products.

Further Information

3D CAD files in STP format are available. This data describes the products construction in further detail but should not be taken as 'final' information for supplier.

[illegible]





**3.4.12 Facility Beacon:
Vehicular Lollipop**

Note: Single-operator design intent drawing included. Designs for two and three-operator scenarios to follow design intent drawings for TH1.1 signs.

Relevant sign types
TH1.2

Overall sign dimensions (mm)

D 305
W 1000
H 6000/6912/6470

Description

Post mounted network identifier, facility name and operator logos.

Materials and construction

Refer to design intent construction drawing(s).

Power, lighting and data

Power supply required for sign, to be concealed within sign structure.

Finishes

Refer to design intent construction drawing(s).

Colours

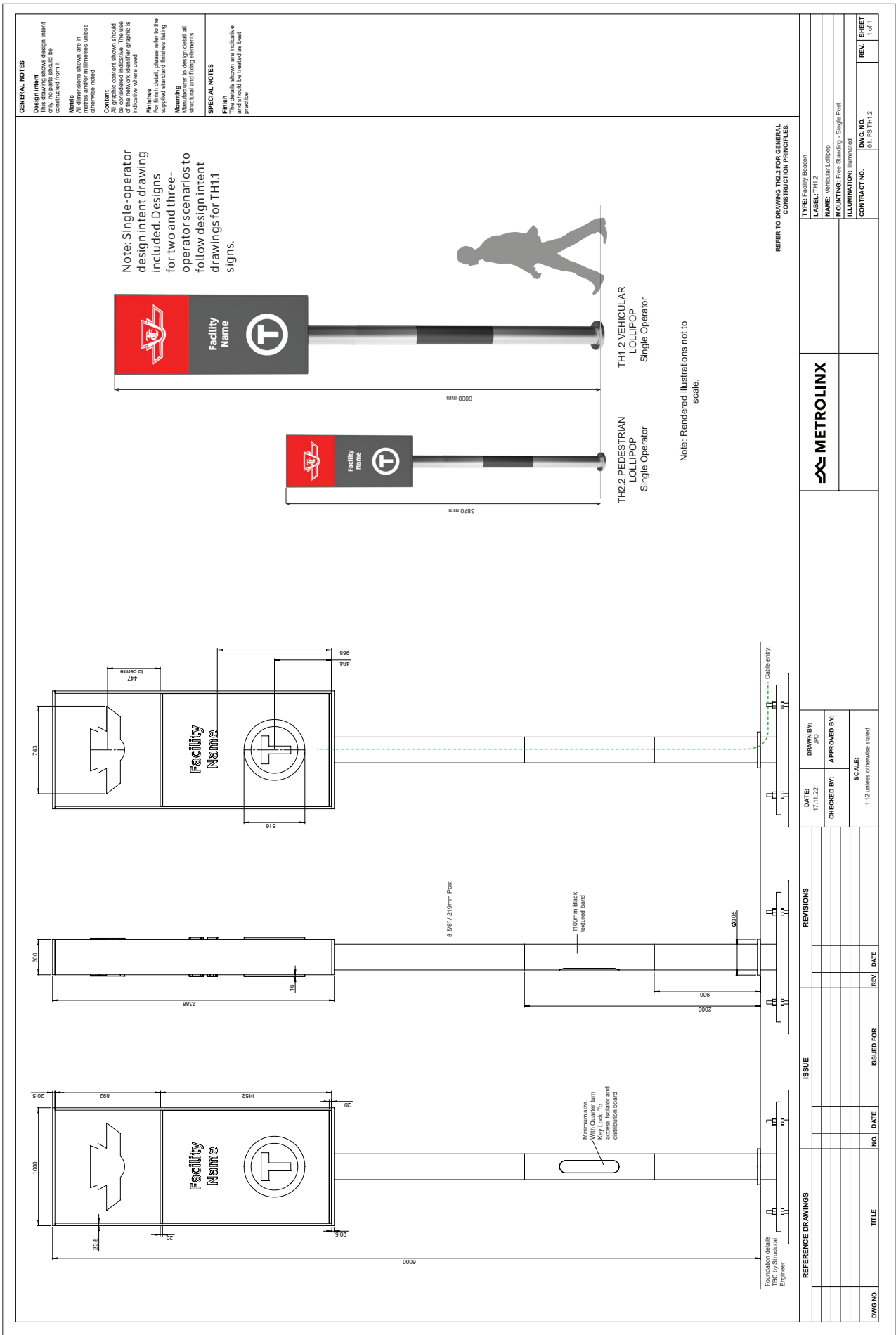
Refer to design intent construction drawing(s).

Installation

Please refer to Section 4.0 Mounting Guides.

Design intent construction drawing(s)

01. FB REND
02. FB ILLUM
03. FB GEN SPEC
01. FS TH1.2



**3.4.13 Facility Beacon:
Pedestrian Totem**

Relevant sign types

TH2.1

Overall sign dimensions (mm)

D 220

W 620

H 3870/4435/4157

Description

Multifunctional beacon sign featuring network operator logo, facility name, operator logos, directional information and map.

Materials and construction

Refer to design intent construction drawing(s).

Power, lighting and data

Power supply required for sign, to be concealed within sign structure.

Finishes

Refer to design intent construction drawing(s).

Colours

Refer to design intent construction drawing(s).

Installation

Please refer to Section 4.0 Mounting Guides.

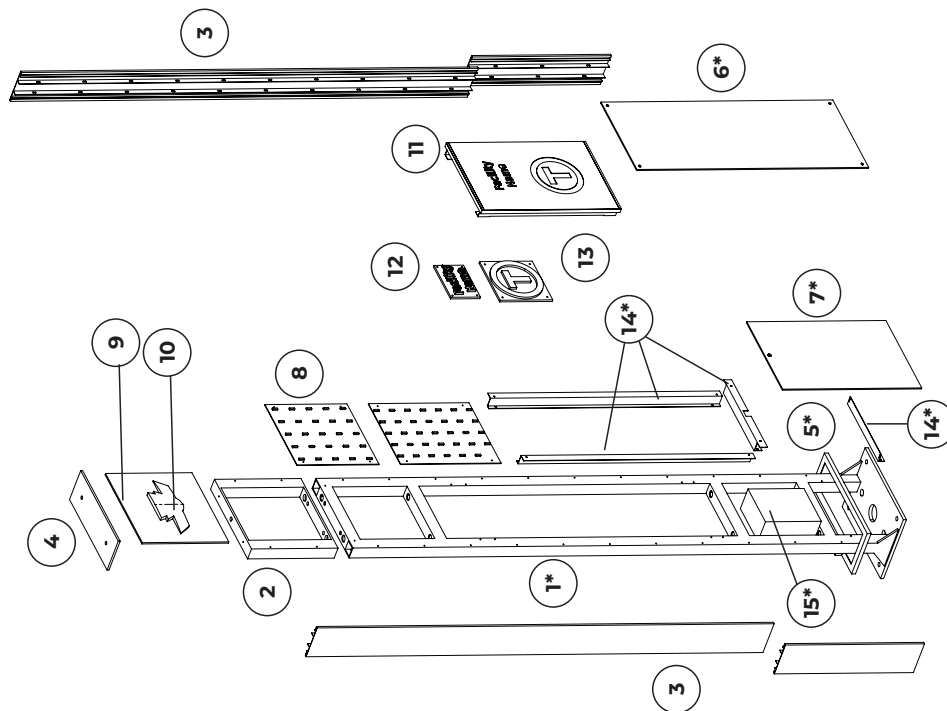
Design intent construction drawing(s)

01. FB REND

02. FB ILLUM

03. FB GEN SPEC

01. FS TH2.1



- 1 Main Frame** Fabricated, Galvanised Mild Steel OR Stainless Steel Painted Black, with welded baseplate and gaskets. In two parts, bolted together. To allow
- 2 Frame Top** to be replaced with an extended version should extra Operator Logos be added.
- 3 D Side Aluminium Extrusions**, 3mm thick. In two sections: Top: Painted Black. Bottom: Painted Silver. Bolted to Frame. Assemble to Frame before other items.
- 4 Top Cap** Machined Aluminium plate 0.5" thick. Painted Black with recess to capture Operator Panel. Bolted to Frame.
- 5 Base Cover** Stainless steel. Finish Bead blast. Fits over product. Loose, to adjust to floor slope.
- 6 Mapping Panel** Tempered glass with 'vinyl' printed graphics adhesive applied to the rear. Fixed with 4 Countersunk bolts, painted Black.
- 7 Lower Panel** Fabricated Aluminium. Painted Silver. Reinforced with marine grade plywood board behind. Removable to access transformers and electrical Isolator. With key lock.
- 8 Illuminator panels** Extra Low Voltage wide angle LED modules arranged on rigid PVC sheet backing. Bolt to Frame. Drivers behind panels.
- 9 Operator Panel** Illuminated. 10mm thick Transparent outdoor grade Polycarbonate sheet. With rear applied coloured translucent vinyl. Slots into extrusion and captured by Top Cap.
- 10 Operator Logo** Illuminated. Machined outdoor grade Polycarbonate block, adhesive bonded to Operator Panel OR Vacuum formed tray fitted through Operator panel. With applied translucent suitable off the shelf external grade cut 3M or Avery vinyl with printed graphics.
- 11 Facility Name Panel** Fabricated Aluminium. Painted Black. Bolted to Frame. Centres of lettering bonded to Polycarbonate illuminated sections.
- 12 Facility Name** logo Illuminated. Machined Opal white translucent Polycarbonate. Lettering protrudes through apertures in Facility Name Panel by 10mm.
- 13 "T" logo** Illuminated. Machined Opal white translucent Polycarbonate. Protrudes through apertures in Facility Name Panel by 10mm.
- 14 Brackets** Fabricated Steel brackets to support panels. Painted Black.
- 15 Isolator** and distribution board. In NEMA rated housing.
- Foundation (Not shown)**
Type and size TBC by Structural engineer and informed by site surveys.
To follow Metrolinx Generic Foundation guide.
- * Components that are unique to this version. All other components shared with other versions.
- Black foam gaskets to be applied internally around panels parts to hold tightly and prevent light bleed from illuminators.
- Only front panels shown for simplicity. Symmetrical, except when Digital Display fitted.
- Single Operator version shown.**

* Components that are unique to this version. All other components shared with other versions.

Black foam gaskets to be applied internally around panels parts to hold tightly and prevent light bleed from illuminators.

Only front panels shown for simplicity. Symmetrical, except when Digital Display fitted.

Single Operator version shown.

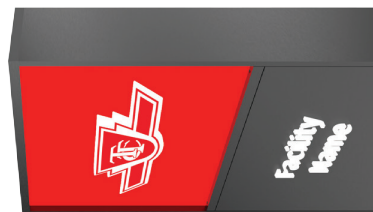
REFERENCE DRAWINGS										ISSUE				REVISIONS				METROLINX										TYPE: Family Beacon							
																												LABEL: TH2.1							
																												NAME: Podiatrist Toilet							
																												MOUNTING: Free Standing - Floor							
																												ILLUMINATION: Illuminated							
																												CONTRACT NO.		DWG. NO.		REV.		SHEET	
																												1:12 unless otherwise stated		01 FSTH1.2		2 of 6			

Showing Totem. Principles apply to all sign types.



The Facility Name and Map panel are flush with the Sides.

The Top panel is recessed.



OPERATOR PANEL
Showing one operator.

Note: the TTC logo profile is curved.

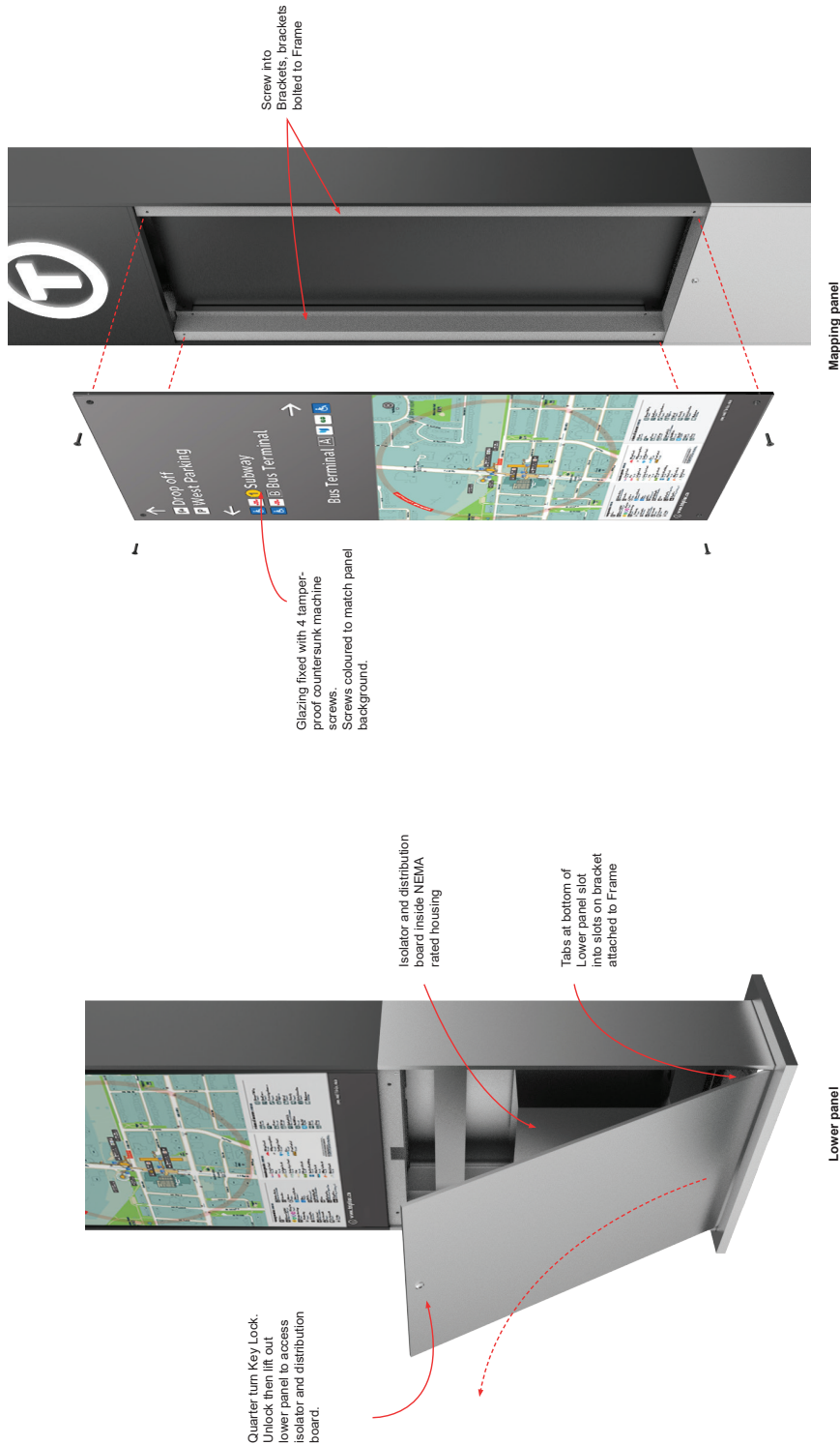


OPERATOR PANEL
Showing two operators

Note: An Aluminium Bar is fixed to the Polycarbonate sheet between the two logos to create a frame between them.

[illegible]

Showing Totem. Principles apply to all sign types.



GENERAL NOTES

Design intent
This drawing shows design intent only, no parts should be constructed from it

Metric
All dimensions shown are in
metres and/or millimetres unless
otherwise noted

Content
All graphic content shown should be considered indicative. The use of the network identifier graphic is

Finishes
For finish detail, please refer to the supplied standard finishes listing

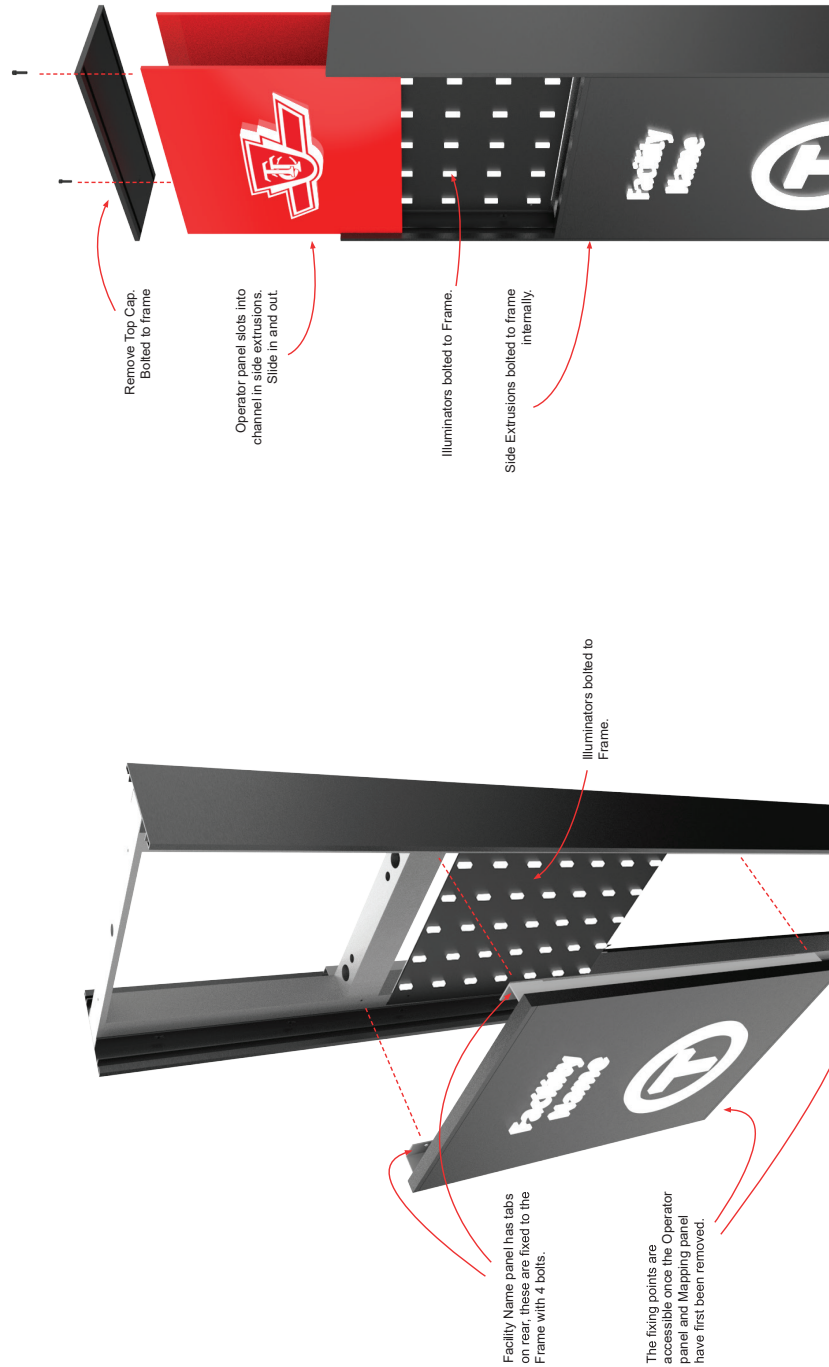
Mounting
Manufacturer to design detail all structural and fixing elements

SPECIAL NOTES

Finish
The details shown are indicative and should be treated as best practice

[illegible]

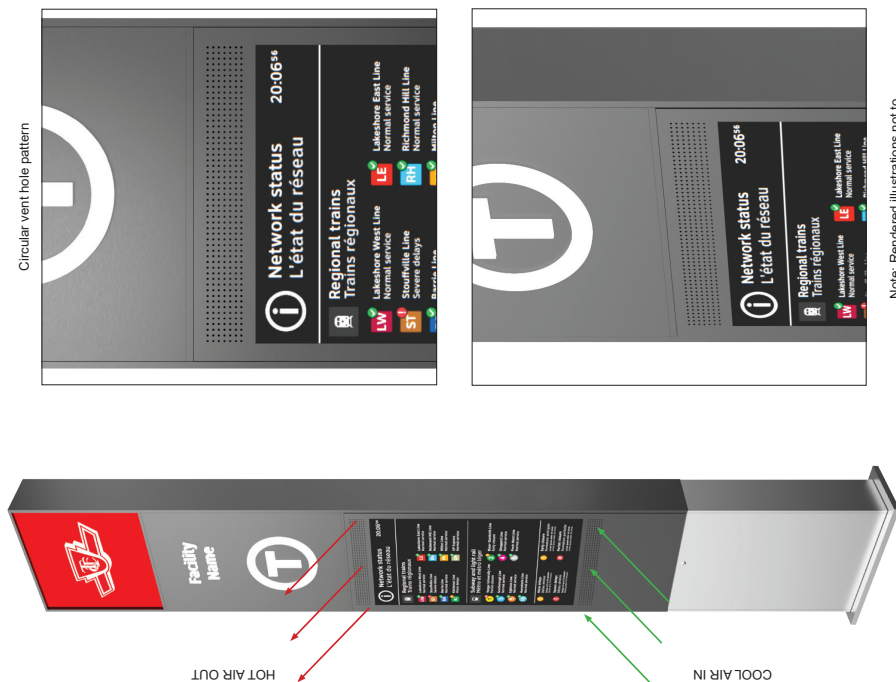
Showing Totem. Principles apply to all sign types.



Operator panel

Facility name panel

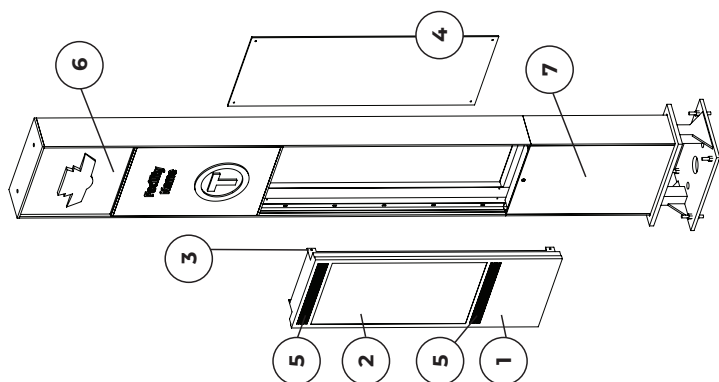
REFERENCE DRAWINGS				ISSUE				REVISIONS				DATE: 17.11.22		DRAWN BY: JPD		TYPE Family (Reason)	
																LABEL: THG.1	
																NAME: Polishian 16dm	
																MOUNTING Free Standing Floor	
																ILLUMINATION: Illuminated	
DWG NO.	TITLE	NO.	DATE	ISSUED FOR	REV.	DATE	SCALE: N/A							CONTRACT NO.	DWG NO.	REV.	SHEET 5 of 6
															01_FS THG.2		



Note: Rendered illustrations not to scale.

Digital Display Version - Digital Display one side only.

- 7 NEIMA Rated Housing** Custom made NEIMA rated housing, including digital display, media player & fans.
- 8 Glazing** Toughened low iron ultra clear glass panel of a minimal thickness of 5mm with suitable anti-reflective film/treatment. Manufacturer to specify a suitable film/method to keep glass together if it is cracked. This film/method must not affect colour or clarity.
- 9 Fixing Bolted** to the structural frame.
- 10 Access** Access via removing the mapping panel on the opposite side.
- 11 Air Flow** Vents with filters to prevent dust ingress. Fans to draw air in through lower vents and expel air via upper vents. Air to pass in front of LCD to prevent part from overheating.
- 12 Router** Wireless router behind Operator Logo Panel.
- 13 Cabling** Cables to display housing to electronic distribution board behind Lower Panel.
- 14 Black foam** Black foam gaskets to be applied internally around panels parts to hold together and prevent light bleed from illuminators.
- 15 Single Operator version shown.**



REFERENCE DRAWINGS		ISSUE		REVISIONS		DATE: 17.1.12		DRAWN BY: JPD		 METROLINX		TYPE: Facility Beacon	
												LABEL: TH2.1	
												NAME: Pedestrian Tolein	
												MOUNTING: Free Standing - Floor	
												ILLUMINATION: Illuminated	
FIGURE NO.		TITLE		NO.		DATE		ISSUED FOR		REV.		SHEET 6 of 6	
										CONTRACT NO.		DWS NO. 01 FS TH2.1.2	
												SCALE 1:12 unless otherwise stated	

**3.4.14 Facility Beacon:
Pedestrian Lollipop**

Relevant sign types

TH2.2

Overall sign dimensions (mm)

D 220

W 620

H 3870/4435/4157

Description

Post mounted network identifier, facility name and operator logos.

Materials and construction

Refer to design intent construction drawing(s).

Power, lighting and data

Power supply required for sign, to be concealed within sign structure.

Finishes

Refer to design intent construction drawing(s).

Colours

Refer to design intent construction drawing(s).

Installation

Please refer to Section 4.0 Mounting Guides.

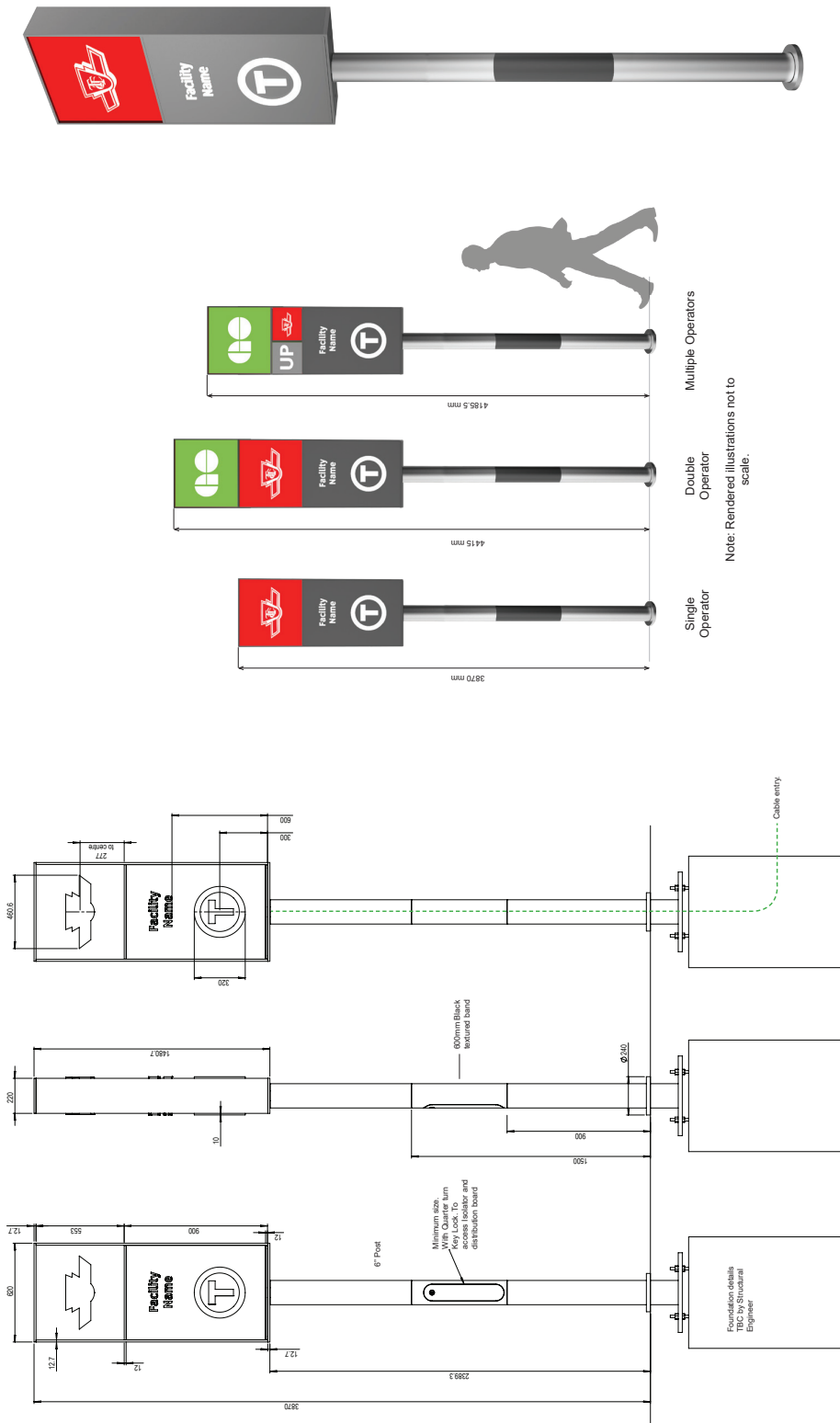
Design intent construction drawing(s)

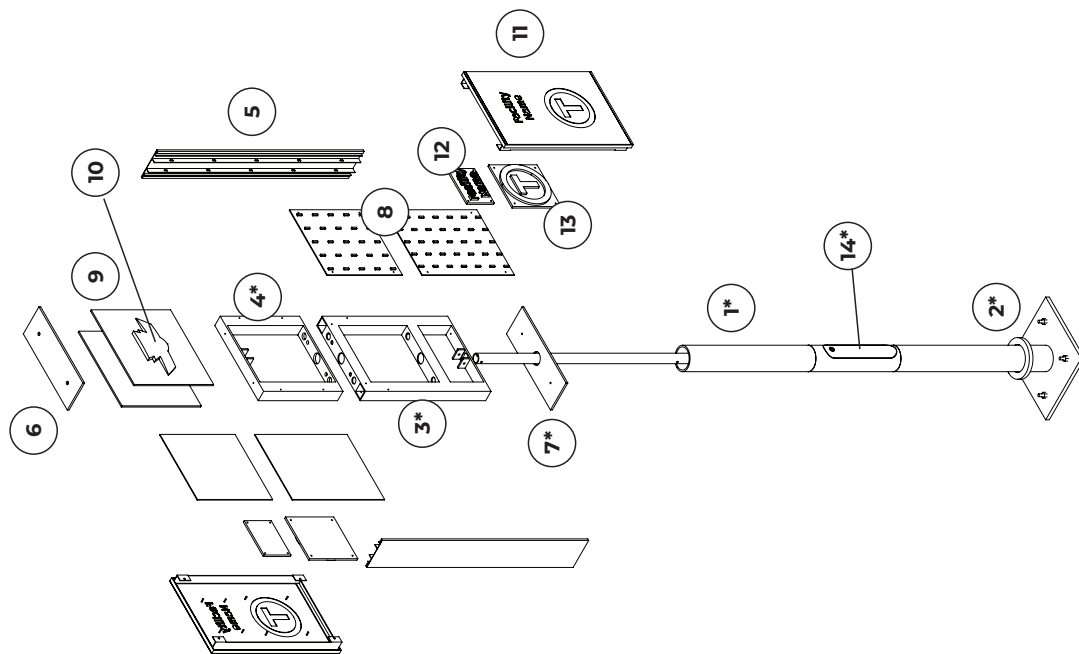
01. FB REND

02. FB ILLUM

03. FB GEN SPEC

01. FS TH2.2

[illegible]



- 1 Post** 6" diameter radially brushed Stainless Steel. Thickness TBC by structural engineer. With welded baseplate and gussets, and spigot to attach to Frame. Central section with applied textured black anti-slippery vinyl wrap and cut out for electrical access hatch.
- 2 Base Cover** Stainless steel. Finish: radially brushed. Apply before adding Sign Top. Loose, to adjust to floor slope.
- 3 Frame** Fabricated Galvanised Mild Steel OR Stainless Steel. Box sections, painted Black. Bolt to Post Spigot.
- 4 Frame Top** Fabricated Galvanised Mild Steel OR Stainless Steel. Box sections, painted Black. Bolt to Frame [3] and Post Spigot. Allows top section to be replaced with an extended version should extra Operator Logos be added.
- 5 Sides** Satin Aluminium Extrusions. 3mm thick, painted Black. Bolted to Frame. Assemble to Frame before other items.
- 6 Top Cap** Machined Satin Aluminium plate 0.5" thick, painted Black. With recess to capture Operator Panel. Bolted to Frame with black countersunk screws.
- 7 Bottom Cap** Machined Satin Aluminium plate 0.5" thick. Bolted to Frame with black countersunk screws.
- 8 Illumination panels** Extra Low Voltage wide angle LED modules arranged on rigid PVC sheet backing. Bolt to Frame. Drivers behind panels.
- 9 Operator Panel** Illuminated. 10mm thick Transparent outdoor grade Polycarbonate sheet. With rear applied coloured translucent vinyl. Slots into extrusion and captured by Top Cap.
- 10 Operator Logo** Illuminated. Machined outdoor grade Polycarbonate block, adhesive bonded to Operator Panel
- OR
- Vacuum formed tray fitted through Operator panel.
- With application translucent suitable off the shelf external grade cut 3M or Avery vinyl with printed graphics.
- 11 Facility Name Panel** Fabricated Aluminium, painted Black. Bolted to Frame. Centres of lettering bonded to Polycarbonate illuminated sections.
- 12 Facility Name logo** Illuminated. Machined Opal white translucent Polycarbonate. Lettering protrudes through apertures in Facility Name Panel by 10mm.
- 13 "T" logo** Illuminated. Machined Opal white translucent Polycarbonate. Protrudes through apertures in Facility Name Panel by 10mm.
- 14 Access hatch**
Flush hinged access panel to access transformers and electrical isolator. With key lock.
- 15 Foundation**
Type and size TBC by Structural engineer and informed by site surveys.
To follow Metrolinx Generic Foundation guide.
- * Components that are unique to this version. All other components shared with other versions.
- Product symmetrical both sides (Electrical Access Hatch [14] on one side only).
- Black foam gaskets to be applied internally around panels parts to hold tightly and prevent light bleed from illuminators.
- Single Operator version shown.**

GENERAL NOTES	
Design intent	This drawing shows design intent only, no parts should be constructed from it
Metric	All dimensions shown are in millimetres and/or millimetres unless otherwise noted
Content	All graphic content shown should be considered indicative. The use of the network identifier graphic is indicative where used
Finishes	For finish detail, please refer to the supplied standard finishes listing
Mounting	Manufacturer to design detail all structure and fixing elements

SPECIAL NOTES

Finish
The details shown are indicative
and should be treated as best
practice

[illegible]

PWNG NO.	TITLE	NO.	DATE	INSURER LEAD	REV.	SHEET
					DWG. NO.	
					01 FS TH-2	2 of 2
					CONTRACT NO.	

SCALE:

1:12 unless otherwise stated

**3.4.15 Facility Marker:
Wall mounted**

Relevant sign types

TH3.1

Overall sign dimensions (mm)

D 75

W varies

H varies

Description

Wall mounted network identifier and operator logos.

Materials and construction

Refer to design intent construction drawing(s).

Power, lighting and data

Power supply required for sign, to be concealed within sign structure.

Finishes

Refer to design intent construction drawing(s).

Colours

Refer to design intent construction drawing(s).

Installation

Please refer to Section 4.0 Mounting Guides.

Design intent construction drawing(s)

01. MSP WM TH3.1

02. TTC WM TH3.1

03. GO WM TH3.1

04. T WM TH3.1

GENERAL NOTES

Design Intent: This drawing shows design intent only; no parts should be constructed from it.

Metric: All dimensions shown are in metric unless otherwise noted.

Content: All graphic content shown should be used as a guide only. The use of the network identifier graphic is illustrative where used.

Reference Detail: Please refer to the supplied standard finishes listing.

Mounting: Manufacturer to design detail all hardware and fixings components.

SPECIAL NOTES

Rails: Individually mounting the elements allows for replacement without removal of the entire assembly. Manufacturer to detail a rail mounted alternative if required for a particular site.

SPACER, MOUNTING & POWER SUPPLY

15mm thick black metal spacer plate
Custom bracket with LED illuminator through sign body and 3x6mm flange extending to sign with insulating flanges and all wall flange to suit mounting surface

GRAPHIC PANEL - TTC IDENTIFIER

5mm vacuum formed clear acrylic panel with white LED day/night sensor controlled internally illuminated vinyl graphics bonded into inside face on back, with suitable adhesive and fasteners. Panel temperature between 5000 and 5700K, subject to Metroline approval.
Luminance of white sections to be a minimum of 200cd/m².
Panel to be fully removable from the sign assembly to allow for updating.

REFERENCE DRAWINGS

1 3D
2 3D Illuminated
3 Top Scale T1:0
4 Left Scale T1:0
5 Front Scale T1:0

REVISIONS

NO.	DATE	REV.	DATE	ISSUED FOR

TYPE: Threshold Marker

LABEL: THS.1

NAME: Facility Marker Future State

MOUNTING: Wall mounted

ILLUMINATION: Illuminated

CONTRACT NO.

DWG. NO.

REV. SHEET
02 TTC WH THS.1
1 of 1

[illegible]

**3.4.16 Facility Marker:
Projecting**

Relevant sign types

TH3.2

Overall sign dimensions (mm)

D 220

W 620

H 1480.4/2045.4/1767.4

Description

Projecting sign with network identifier, facility name and operator logos.

Materials and construction

Refer to design intent construction drawing(s).

Power, lighting and data

Power supply required for internal illumination, to be concealed within sign structure.

Finishes

Refer to design intent construction drawing(s).

Colours

Refer to design intent construction drawing(s).

Installation

Please refer to Section 4.0 Mounting Guides.

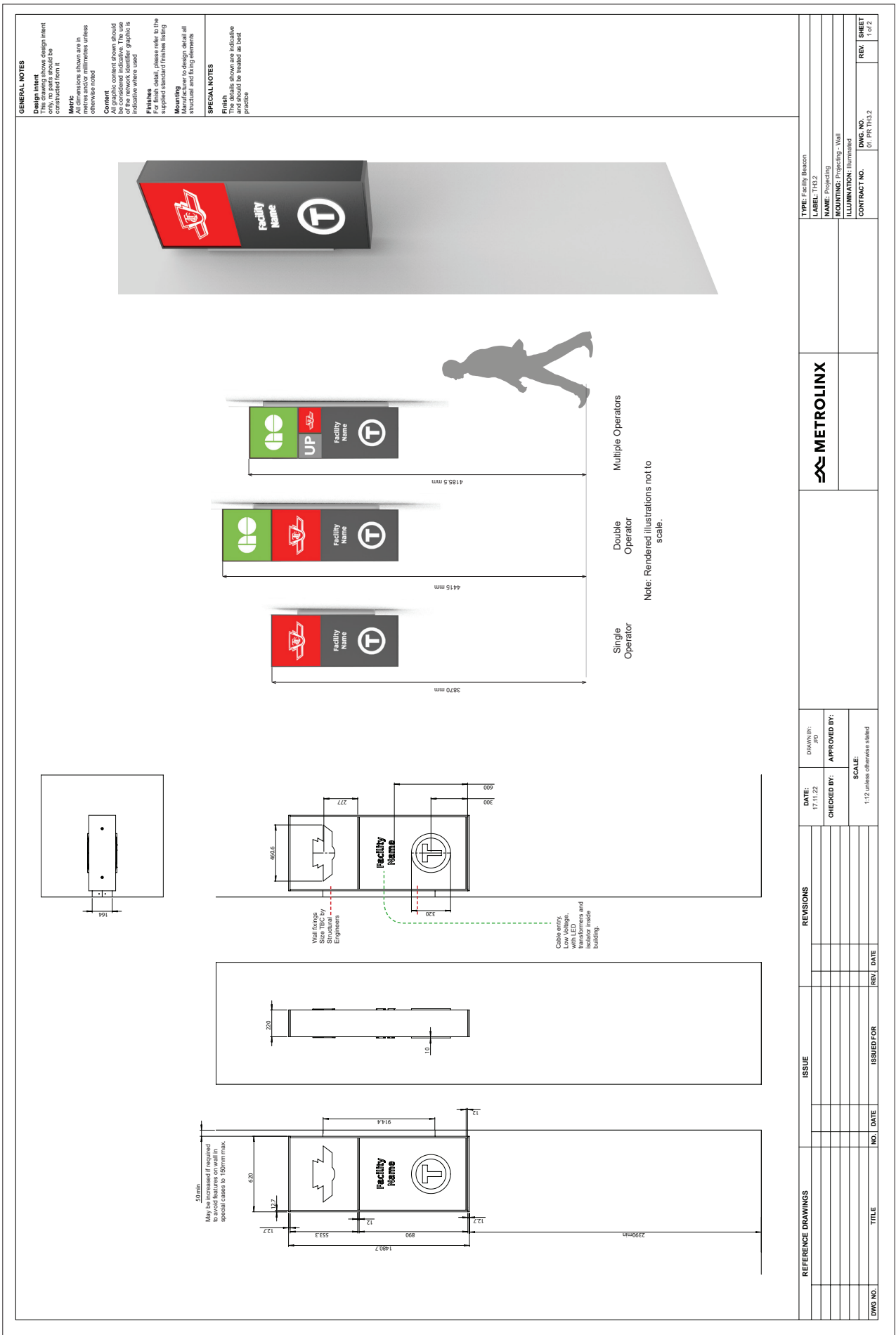
Design intent construction drawing(s)

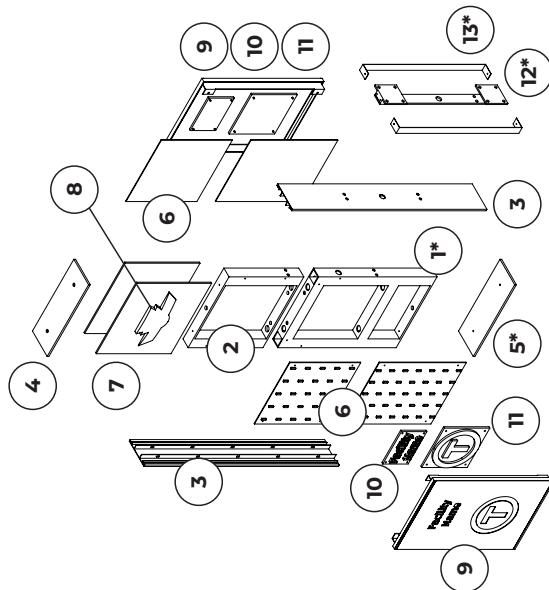
01. FB REND

02. FB ILLUM

03. FB GEN SPEC

01. PR TH3.2





1 Frame Fabricated Galvanised Mild Steel OR Stainless Steel.
Painted Black. 900S. Bolt to wall. Box sections. Fixing type, qty and sizes TBC by Structural Engineer informed by site surveys. In two parts, bolted together.

To allow **2 Frame Top** section to be replaced with a later version should extra Operator Logos be added.

3 Sides Aluminium Extrusions, 3mm thick, painted Black. Bolted to Frame. Assemble to Frame before other items.

4 Top Cap Machined Aluminium plate 0.5" thick, painted Black. With recess to capture Operator Panel. Bolted to Frame.

5 Bottom Cap Machined Aluminium plate 0.5" thick. Bolted to Frame, painted Black.

6 Illuminator panels Extra Low Voltage wide angle LED modules arranged on rigid PVC sheet backing. Bolt to Frame. Drivers behind panels, OR within building.

7 Operator Panel Illuminated. 10mm thick Transparent outdoor grade Polycarbonate sheet. With rear applied coloured translucent vinyl. Stuts into extrusion and captured by Top Cap.

8 Operator Logo Illuminated. Machined outdoor grade Polycarbonate block, adhesive bonded to Operator Panel

OR
Vacuum formed tray fitted through Operator panel
With applied translucent suitable off the shelf external grade cut 3M or Avery vinyl with printed graphics.

9 Facility Name Panel Fabricated Aluminium, painted Black. Bolted to Frame. Centres of lettering bonded to Polycarbonate illuminated sections.

10 Facility Name logo Illuminated. Machined Opal white translucent Polycarbonate. Lettering protrudes through apertures in Facility Name Panel by 10mm.

11 "T" logo Illuminated. Machined Opal white translucent Polycarbonate. Protrudes through apertures in Facility Name Panel by 10mm.

12 Bracket
Galvanised mild steel or stainless steel. Fixings TBC by structural engineer.

13 Bracket Cladding
2x folded aluminium fabrications. Bolt to Bracket. Painted silver.

* Components that are unique to this version.
All other components shared with other versions.

Product symmetrical both sides

Black foam gaskets to be applied internally around panels parts to hold tightly and prevent light bleed from illuminators.

Isolators and Transformers located remotely, within building.

Single Operator version shown.

REFERENCE DRAWINGS			ISSUE			REVISIONS			DATE: 17.11.22		DRAWN BY: JPD				TYPE: Facility Beacon LABEL: TH13.2		
									CHECKED BY:		APPROVED BY:						
DWG NO.	TITLE	NO.	DATE	ISSUED FOR	REV	DATE	SCALE: 1:12 unless otherwise stated					CONTRACT NO.		DWG NO. 01 PR TH13.2		REV. SHEET 1 of 2	