

Specifications and drawings for

Daniel J. MacDonald Modernization

are amended as follows:

SPECIFICATIONS

1.1 REVISED SPECIFICATIONS

- .1 The following revised specifications issued with this addendum supersede previously issued specifications of the same title and number
 - .1 Section No. 00 01 10_R9, Table of Contents
 - .2 Section No. 01 61 10_R6, List of Materials
 - .3 Section No. 08 71 10_R2, Door Hardware Schedule.
 - .4 Section No. 10 44 00_R1, Fire Protection Specialties
 - .5 Section No. 25 05 60_R1, EMCS Field Installation
 - .6 Section No. 25 30 02_R2, EMCS: Field Control Devices
 - .7 Section No. 28 10 00_R1, Access Control, Intrusion Detection and Video Surveillance Systems

DRAWINGS

1.2 REVISED DRAWINGS

- .1 The following Drawings are revised and re-issued with this addendum. Revisions are shown in bubbled areas on drawings. The following descriptions of revisions are for convenience only and do not define or limit the extent of actual revisions indicated on drawings:
 - .1 Drawing A03-02 - DOOR- HARDWARE SCHEDULE
 - .1 Added Card Readers to three doors.
 - .2 Drawing M53-02 - HYDRONIC - SECOND FLOOR NEW WORK
 - .1 Added CHW LT bypass.
 - .3 Drawing M53-03 - HYDRONIC - THIRD FLOOR NEW WORK
 - .1 Added CHW bypass.
 - .2 Added HW bypass.
 - .4 Drawing M53-05 - HYDRONIC - FIFTH FLOOR NEW WORK
 - .1 Added CHW bypass.

- .5 Drawing M53-06 - HYDRONIC - PENTHOUSE FLOOR NEW WORK
 - .1 Added CHW LT bypass.
 - .2 Added HW bypass.
- .6 Drawing M73-02 - HYDRONIC DISTRIBUTION – HEATING
 - .1 Added note.
 - .2 Revised differential pressure sensor and bypass location to match plan.
- .7 Drawing M73-03 - HYDRONIC DISTRIBUTION - COOLING
 - .1 Added CHW LT bypass and differential pressure sensor.
 - .2 Added CHW bypass and differential pressure sensor.
 - .3 Added note.
- .8 Drawing E40-01 - COMMUNICATIONS PLAN - MAIN FLOOR
 - .1 Added one (1) data outlet in the room 1-80.
- .9 Drawing E50-01 - SECURITY PLAN -MAIN FLOOR
 - .1 Added security provisions for doors 1-67, 1-87, 1-58 and 1-54A as shown in attached drawing
- .10 Drawing E50-04 - SECURITY PLAN -FOURTH FLOOR
 - .1 Added security provisions for door to atrium as shown in attached drawing
- .11 Wayfinding and Signage Package R1
 - .1 Updated Sign Schedule to include sign types M6 through M11.

End of NORR Addendum No. 10

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	26 05 32 Outlet Boxes, Conduit Boxes and Fittings	E	27 May 2022	2
	26 05 34_R1 Conduits, Conduit Fastenings and Conduit Fittings	E	25 Jul 2022	4
	26 05 36 Cable Trays for Electrical Systems	E	27 May 2022	2
	26 05 37 Wireways and Auxiliary Gutters	E	27 May 2022	2
	26 05 48 Vibration and Seismic Controls	E	27 May 2022	6
	26 08 02 Field Testing and Commissioning – Low Voltage Installations	E	27 May 2022	7
	26 09 13_R1 Power Monitoring	E	25 Aug 2022	7
	26 09 43 Network Lighting Controls	E	27 May 2022	16
	26 12 16.01 Dry Type Transformers Up To 600 V Primary	E	27 May 2022	3
	26 22 19 Control and Signal Transformers	E	27 May 2022	2
	26 24 13 Switchboards	E	27 May 2022	5
	26 24 16.01_R1 Panelboards Breaker Type	E	18 Aug 2022	3
	26 27 26 Wiring Devices	E	27 May 2022	3
	26 28 13.01 Fuses – Low Voltage	E	27 May 2022	2
	26 28 16.02 Moulded Case Circuit Breakers	E	27 May 2022	2
	26 28 18 Ground Fault Equipment Protection	E	27 May 2022	3
	26 28 20 Ground Fault Circuit Interrupters - Class A	E	27 May 2022	2
	26 28 23 Disconnect Switches - Fused and Non-Fused	E	27 May 2022	2
	26 29 01 Contactors	E	27 May 2022	3
	26 29 03 Control Devices	E	27 May 2022	4
	26 29 10 Motor Starters to 600 V	E	27 May 2022	5
	26 32 13.01_R2 Power Generation Diesel	E	25 Jul 2022	14
	26 36 23 Automatic Transfer Switches	E	27 May 2022	7
	26 50 00 Lighting	E	27 May 2022	3
	26 52 13.13 Emergency Lighting	E	27 May 2022	3

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<u>DIVISION</u>	<u>SECTION</u>	<u>DOCUMENT RESPONSIBILITY</u>	<u>DATE</u>	<u>PAGES</u>
	26 52 13.16 Exit Signs	E	27 May 2022	2
DIVISION 27	COMMUNICATIONS			
	27 05 00 Common Work Results for Communications	E	27 May 2022	9
	27 51 19 Sound Masking System	E	27 May 2022	8
DIVISION 28	ELECTRONIC SAFETY AND SECURITY			
	28 10 00_R1 Access Control, Intrusion Detection and Video Surveillance Systems	E	27 May 2022 01 Sep 2022	32 40
	28 31 00.02 Multiplex Fire Alarm and Voice Communication Systems	E	27 May 2022	14
DIVISION 31	EARTHWORK			
	31 00 00 Earthwork	C	27 May 2022	8
DIVISION 32	EXTERIOR IMPROVEMENTS			
	32 01 90.23 – Pruning	L	27 May 2022	4
	32 01 90.33 - Tree and Shrub Preservation	L	27 May 2022	4
	32 12 16 Asphalt Paving	C	27 May 2022	4
VOLUME 3 OF 3				
APPENDIX 1	DESIGNATED SUBSTANCES AND HAZARDOUS BUILDING MATERIALS			
	Hazardous Materials Assessment Report, prepared by All-Tech Environmental Services Limited	Info	04 Jan 2021	68
	Data Gap Analysis & Intrusive Asbestos Survey, prepared by Englobe	Info	28 Jun 2019	37
	DRAFT - Identification, Quantification and Abatement Estimates for Asbestos-Containing Materials - Letter, prepared by Englobe	Info	22 Mar 2019	4

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<u>DIVISION</u>	<u>SECTION</u>	<u>DOCUMENT RESPONSIBILITY</u>	<u>DATE</u>	<u>PAGES</u>
	Halocarbon Standard Operating Procedure, prepared by MCW Maricor	Info	Oct 2012	50
APPENDIX 2	BUILDING CONDITION REPORTS			
	Building Condition Report 2017	Info	26 Apr 2017	103
APPENDIX 3	GEOTECHNICAL INVESTIGATION			
	EastTech Geotechnical Report - Daniel J. MacDonald Building Charlottetown, PEI, prepared by EastTech Engineering Consultants Inc.	Info	21 May 2020	18
	Charlottetown - DJM Building Phase II Soil Investigation, prepared by Jacques, Whitford & Associated Ltd.	Info	15 Aug 1980	25

LEGEND TO DOCUMENTS RESPONSIBILITY

- .1 A - Denotes documents prepared by Architect.
- .2 HS – Denotes documents prepared by Health & Safety Advisor, PSPC Human Resources Branch, Construction & Maintenance.
- .3 SC - Denotes documents prepared by Sustainability Consultant.
- .4 Cx – Denotes documents prepared by Commissioning Agent.
- .5 Env - Denotes documents prepared by PSPC Environmental Group.
- .6 S - Denotes documents prepared by Structural Engineer.
- .7 H - Denotes documents prepared by Architectural Hardware Consultant.
- .8 AV - Denotes documents prepared by Audio Visual Consultant
- .9 M - Denotes documents prepared by Mechanical Engineer.
- .10 E - Denotes documents prepared by Electrical Engineer.
- .11 C – Denotes documents prepared by Civil Engineer
- .12 L - Landscape documents prepared by PSPC
- .13 Info - Denotes Information Documents prepared by various entities.

END OF SECTION

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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
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Where a product is indicated with a particular colour, texture, or pattern, that product is the basis for matching the colour, texture, or pattern in the Work.

DIVISION 03 - CONCRETE

CSLR-1	Concrete Sealer	Silane Sealer	Parking Garage
C-TOP-1	Polished Concrete Topping	Fast-setting, high strength, cementitious, non-shrink, polishable tinted architectural topping, fully banded. Polish to Medium Gloss Finish Colour to match Tile CT-1	Atrium

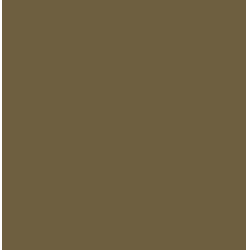
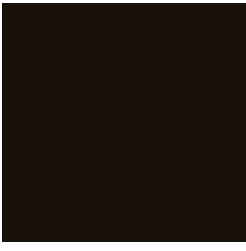
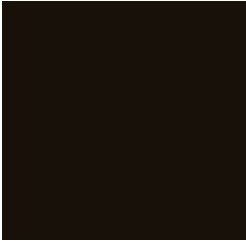
DIVISION 04 - MASONRY

BRK-1	Brick Cladding	Salvaged brick from onsite exterior wall demolition. Or New Brick to Match Existing as required. Provide samples to Departmental Representative for Approval. New brick to be mixed with salvaged brick proportionally	Exterior; Interior (lobby) 
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DIVISION 05 – METALS

MET-A1	Metal Finish - Prefinished Aluminum	Shop Applied Anodized Coating for Aluminum AAMA Class 1 Exterior Grade Min Film Thickness +0.7mils Colour: Light Bronze RGB Colour Code: 110-95-64	Curtain Wall Sections - CW-3, CW-4 Entrance Canopy 
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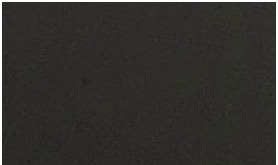

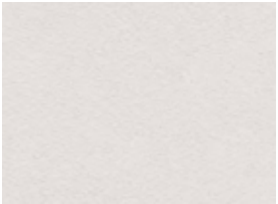
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
MET-A2	Metal Finish - Prefinished Aluminum	Shop Applied 3-coat Fluoropolymer Coating for Aluminum Dry Film Thickness (nominal) ASTM D1400 0.20-0.30 mil primer coat 0.70-0.80 mil colour coat 0.30-0.40 mil clear topcoat Colour: Light Bronze RGB Colour Code: 110-95-64	Cap flashing and aluminum cladding. Applied for colour matching building elements having panels MTL-PNL1 
MET-A3	Metal Finish - Prefinished Aluminum	Shop Applied Anodized Coating for Aluminum AAMA Class 1 Exterior Grade Min Film Thickness +0.7mils Colour: Dark Bronze RGB Colour Code: 24-17-9	Curtain wall CW-1, CW- 2 sections. 
MET-A4	Metal Finish - Prefinished Aluminum	Shop Applied 3-coat Fluoropolymer Coating for Aluminum Dry Film Thickness (nominal) ASTM D1400 0.20-0.30 mil primer coat 0.70-0.80 mil colour coat 0.30-0.40 mil clear topcoat Colour: Dark Bronze RGB Colour Code: 24-17-9	Cap flashing and aluminum cladding. Applied for colour matching building elements having panels MTL-PNL3. 

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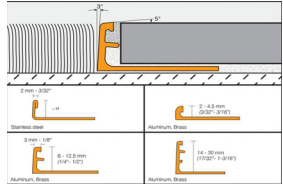
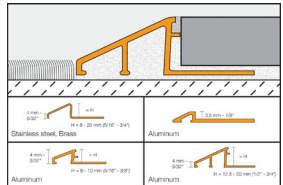
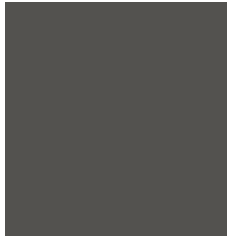
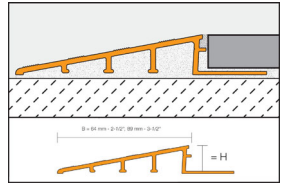
CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
MET-A5	Metal Finish - Prefinished Aluminum	<p>Shop Applied 3-coat Fluoropolymer Coating for Aluminum</p> <p>Dry Film Thickness (nominal) ASTM D1400</p> <p>0.20-0.30 mil primer coat 0.70-0.80 mil colour coat 0.30-0.40 mil clear topcoat</p> <p>Colour: Black</p>	<p>Custom Atrium Acoustic Panel:</p>  <p>Solids — UC40577 Black - UC40577</p>
MET-S1	Prefinished Steel	<p>Architecturally Exposed Structural Steel (AESS): Category 3, Feature Elements</p> <p>Paint: Coating System: Three (3) Coat System, Orzn /Epoxy /Pu</p> <p>Refer to Section 05 12 48 Coatings for Architectural Exposed Structural Steel</p>	<p>Front Canopy; Column as the Atrium; Exposed Seismic Bracing</p>
MET-S2	Metal Finish - Prefinished Steel	<p>Shop Applied 4-coat Fluoropolymer Coating for Steel</p> <p>Dry Film Thickness (nominal) ASTM D1400</p> <p>0.20 mil primer coat 0.75 mil protection coat 0.75 mil color coat 0.50 mil clear topcoat</p> <p>Colour: Light Bronze RGB Colour Code: 110-95-64</p>	<p>Atrium Stage: Bench Seat/ Edge Banding/ Railings</p>

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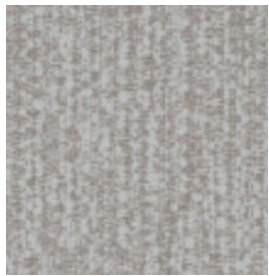
CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
MET-S4	Prefinished Steel	Bluing of Acoustic Panel's Steel Frame Shop Applied Transparent Black Acrylic Lacquer Coating Dry Film Thickness 3-5 5.85 mils Color: Black Matte RGB Colour Code: 39 39 45	Custom Atrium Acoustic Panel: 
MET-Z1	Flat Lock Zinc Panels	Pre-patinated Titanium Zinc Panel FlatLock Panels Thickness - 0.65mm on 16mm plywood substrate Note: All corners to be continuous, no exterior corner flashing to be used Width: 230mm with ~280mm elongation on sloped stair ceiling surfaces (to match 230mm width on vertical faces) Height: Typically 575mm, as needed around edges and corners Colour: Pre-patinated Pigmented brown-grey to complement natural limestone STN-1. Provide samples to consultant	Interior Atrium Stair E, guard post roof 
CRBT-1	Carborundum Tape	Self Adhered Anti-Slip Tape Peel Adhesion: MIL-D-17951E(SH): Adhesive strength 0.75 lbs. (minimum) Width: 51mm Colour: White	Atrium Stair E nosing 

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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
TS-1	Transition Strip - Carpet, LVT to Tile	SS Transition Strip Material: Stainless steel Type 304 Height: Match tile thickness	
TS-2	Transition Strip - Carpet, LVT, Tile to SDT	Sloped SS Transition Strip Material: Stainless Steel Type 304 Height: To Match both adjacent floor thickness	
TS-3	Transition Strip - Carpet, LVT, SDT to Painted Epoxy/ Concrete	Product: Rubber Transition Strips Colour: Charcoal Grey Material: Rubber Gauge to be coordinated with flooring material thickness	
TS-4	Transition Strip - Tile to Painted Epoxy/ Concrete	Sloped SS Transition Strip Material: Stainless Steel Type 304 Height: Tile thickness to Painted epoxy/ concrete flooring	




DIVISION 06 – WOOD, PLASTICS AND COMPOSITES

FAB-1	Fabric	Face: 100% Polyurethane Back: 100% Polyester Knit Weight: 18 oz Per Linear Yard Stain Repellent Fire Rating: NFPA 260, Class 1	Bench seating 
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
HDW-1	Decorative hardware	Product: Silver Handle Material: Metal Colour: Nickel Size: 160mm center to center Width: 10mm Projection: 35mm Description: Square Edge D pull	Millwork: Security Console Drawer and Cupboard Pulls 
HDW-2	Decorative hardware	Product: Black Metal Handle Material: Metal Colour: Black Finish: Matte Size: 160mm center to center Width: 13mm Projection: 33mm Description: Hexagon Square Edges D Pull	Millwork: Kitchenette Drawer and Cupboard Pulls 
HDW-3	Decorative hardware	Product: Dark Grey Handle Material: Metal Colour: Dark Grey Size: 160mm center to center Projection: 35mm Description: Square Edge D pull	Millwork: Business Centers Drawer and Cupboard Pulls 


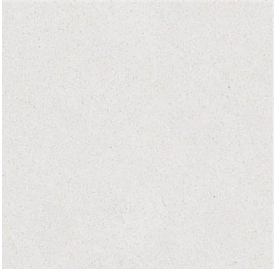
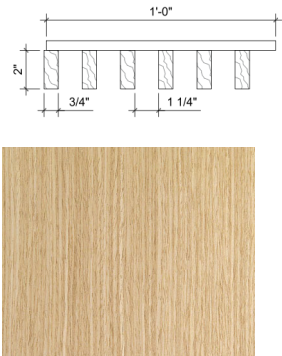
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
PLAM-1	Plastic Laminate HPL	Product: High Pressure Laminate Colour: Medium Brown Wood Pattern Material: High Pressure Laminate Finish: Smooth Texture Finish: Hi-Brite	Security Desk / Refer to Millwork details for location 
PLAM-2	Plastic Laminate HPL	Product: High Pressure Laminate Colour/ Wood look: Walnut Wood look with amber, light browns, greys, and taupes. Design Repeat: 1295mm L x 647mm W Material: Scratch Resistant High Pressure Laminate Finish: Soft Grain	Kitchenette/ Business Center/Vertical Surfaces 
PLAM-3	Plastic Laminate HPL	Product: High Pressure Laminate Colour/Wood look: Wood laminate design with mix of Teak and Framire, and African Oak. Mid-toned brown with tints and shades. Design Repeat: 1092mm L x 774mm W Material: Scratch Resistant High Pressure Laminate Finish: Soft Grain	Doors 
PLAM-4	Plastic Laminate HPL	Product: High Pressure Laminate Colour/Wood look: Wood laminate design with mix of Teak and Framire, and African Oak. Mid-toned brown with tints and shades.	Window Sills and Trim

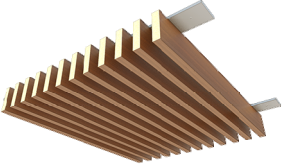
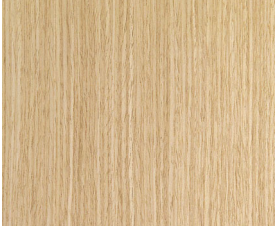
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		Design Repeat: 1092mm L x 774mm W Material: Scratch Resistant High Pressure Laminate Finish: Soft Grain	
SSF-1	Solid Surfacing	Product: Quartz Countertop Material: Quartz Colour: White ground with touches of gray and pale beige, feather look Finish: Polished Thickness: 30 mm Edge Profile: Mitered Edge	Security Desk/ Refer to millwork details for location 
SSF-2	Solid Surfacing	Product: Quartz Countertop Material: Quartz Colour: Snow White with icy look Finish: Polished Thickness: 30 mm Edge Profile: Mitered Edge	Countertop/ Washroom 
SSF-3	Solid Surfacing	Product: Solid Surface Countertop Colour: White with veining Material: 1/3 acrylic resin and 2.3 natural materials Finish: Polished Thickness: 12mm	Countertop/ Business Center

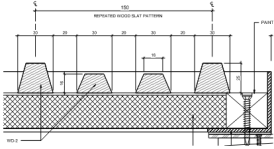
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		Edge Profile: Mitered Edge	
SSF-4	Solid Surface	Product: Quartz Countertop Colour: Organic Speckled White Finish: Polished Material: Quartz Thickness: 20 mm Edge Profile: Mitered Edge	Countertop/ Kitchenette 
WD-PNL-1	Solid Wood Grille Panel	Linear Wood Blade Panel Panel Size 460mm x 1220mm Blade Size 50 x 19 mm Number of Blades: 6 Blade Material: Solid Wood White Oak Finish: Clear Stain – Matte Finish Backer: Cross Wood Backer, fire-rated, painted Black @ 305 O.C. Acoustic Backer: Black Acoustic Wovem Material, Exterior Rated Fire Rating: Class A	Grafton Street Entrance - Exterior Canopy Soffit 

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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
WD-PNL-2	Solid Wood Grille Panel – Acoustic Composite	Custom Acoustic Panel Solid Wood Slats in steel angle frame Wood: White Oak; Rift Cut: Natural Fire Rating: Class A <u>Associated Materials:</u> MET-S4 (on steel frame) WD-2 (Fire Treated solid wood) MET-A5 (Flashing and Closures) AWP-3 (acoustic board)	Custom Atrium Acoustic Panels: Sub-coded to indicate panel width as AWP-1 through 1.5 for full panels from levels 1 through 5 and AWP-2 & 2.1 for partially open panels at ground floor windows. See Acoustic Panel Schedule on drawing A51-11.
WD-PNL-3	Solid Wood Grille Panel	Custom Solid Wood Slats in steel frame at ceiling Wood: White Oak; Rift Cut: Natural Core Material: Solid Wood White Oak Finish: White Oak; Rift Cut, Natural – Match WD-PNL1 Backer: Cross Wood Backer painted Black Blade Size: 50mm x 152mm length varies depending on location Fire Rating: Class A	Wellness Room Ceiling/ Kitchenette Level 2-5/ Elevator Lobbies Level 1-5 
WD-PNL-4	Wood Panel Solid	Custom Wood Panel System Wood: White Oak; Rift Cut: Natural Slip Matched Core Material: Solid Wood White Oak Finish: White Oak; Rift Cut, Natural – Match WD-PNL1 Fire Rating: Class A Size: Refer to architectural drawings for details *Applied to wall and ceiling	Kitchenette 1-20, Locker end panels, Huddle Booths 

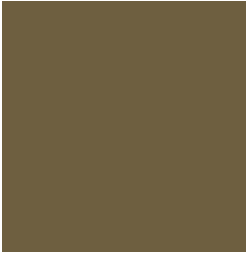
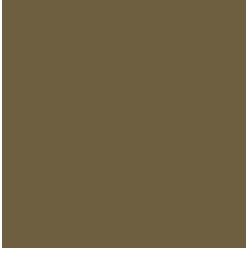
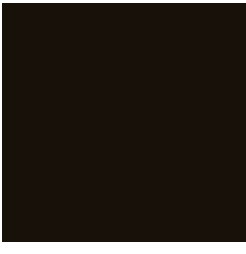
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
WD-1	Wood Throughout	Wood Throughout Wood: White Oak; Rift Cut: Natural Slip Matched Core Material: Solid Wood White Oak Finish: White Oak; Rift Cut, Natural – Match WD-PNL1 Flame Spread Rating: Class A Size: Refer to millwork shop drawings for sizing.	Wall/ Ceiling Panel Ground Floor Kitchenette/ Locker End Panels/ Huddle Booths.
WD-2	Solid Wood	Wood: White Oak; Rift Cut: Natural Core Material: Solid Wood White Oak Finish: Clear Stain – Matte Finish Match WD-PNL1 Fire Treatment: Water-base intumescent fire retardant wood treatment Wet Film Thickness: 1ml /coat, 3ml after 3 coats Class A Flame Spread: 20 Smoke Development: 95-105	Custom Atrium Acoustic Panel: 

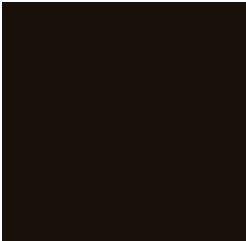
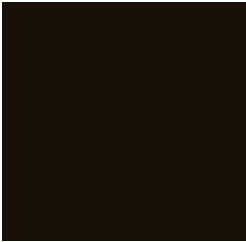
DIVISION 07 – THERMAL AND MOISTURE PROTECTION

MTL-PNL1	Aluminum Cladding Panel	High Strength, Low Weight Aluminum Alloy Sheet Sheet Thickness - 3mm Panel Thickness – min 25mm Finish & Colour: MET-A1 Framing System Attachment:	Grafton St Column Covers/ Grafton St Entrance Canopy/ Atrium and Grafton St Ground Level Bases at Curtain Walls
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		Vertical support fastened to thermally broken clip system off structural girts. Rear Ventilated Rainscreen Pressure-Equalized Vertical Joints to be open and minimized to 3mm	
MTL-PNL2	Aluminum Cladding Panel	High Strength, Low Weight Aluminum Alloy Sheet Sheet Thickness - 3mm Panel Thickness – min 25mm Finish and Colour: MET-A2 Framing System Attachment: Vertical support fastened to thermally broken clip system off structural girts. Rear Ventilated Rainscreen Pressure-Equalized Vertical Joints to be open and minimized to 3mm	Entrance Vestibules/ Atrium Fascia/ 4 th Floor Metal Cladding at Atrium CW-3 Base 
MTL-PNL3	Aluminum Cladding Panel	High Strength, Low Weight Aluminum Alloy Sheet Sheet Thickness - 3mm Panel Thickness – min 25mm Finish and Colour: MET-A4 Framing System Attachment: Vertical support fastened to thermally broken clip system off structural girts.	2 nd through 5 th Floor Metal Cladding at Ribbon Windows 

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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		Rear Ventilated Rainscreen Pressure-Equalized Vertical Joints to be open and minimized to 3mm	
MTL-PNL4	Aluminum Cladding Panel	High Strength, Low Weight Aluminum Alloy Sheet Sheet Thickness - 3mm Panel Thickness – min 25mm Finish and Colour: MET-A4 Framing System Attachment: Vertical support fastened to thermally broken clip system off structural girts. Rear Ventilated Rainscreen Pressure-Equalized Vertical Joints to be open and minimized to 3mm	Ground and 2 nd Floor Cladding at Ribbon Windows 
MTL-PNL5	Aluminum Cladding Panel	High Strength, Low Weight Aluminum Alloy Sheet Sheet Thickness - 3mm bonded to abuse resistant backer Panel Thickness – min 25mm Finish and Colour: MET-A3 (Anodized Dark Bronze) Framing System Attachment: Vertical support fastened to thermally broken clip system off structural girts. Rear Ventilated Rainscreen Pressure-Equalized Vertical Joints to be open and minimized to 3mm	Ground Floor Bases at CW-1 (Kent St) 

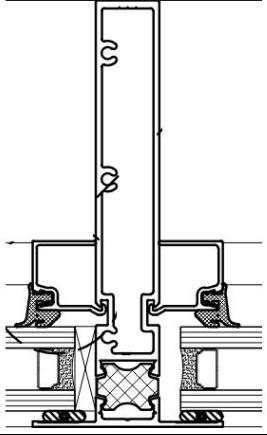
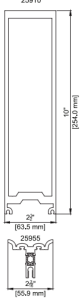
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
INS-1	Insulation	Closed Cell Spray Foam, identified in specifications as Sprayed Foam Insulation Air Barrier System - Closed Cell.	
INS-2	Insulation	Extruded Polystyrene – Foam Board	
INS-3	Insulation	Mineral Wool Insulation	Exterior
RT-1	Roofing Assembly	Inverted roof 40 Ballast Filter fabric 10 Drainage Board 2x76 INS-2 Leak detection system -Conductor Wire 2 Ply modified bitumen roof membrane Leak detection system - Measurement grid Sloped insulation Self adhesive Vapour Retarder 16 Exterior Sheathing Board Galv Metal deck Colour: White	At New Atrium Roof
RT-2	Roofing Assembly	Canopy roof 2 Ply Modified Bitumen roof membrane Sloped insulation as required to form roof slope 13 Exterior Sheathing Board 38 Galv. Metal deck Colour: white	Grafton Street canopy / revolving door

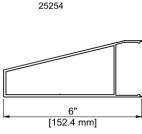
DIVISION 08 – OPENINGS

CW-1	Curtain Wall System	Thermal Broken Curtain Wall System Material: Aluminum Alloy – 6063	Ground Floor Kent Street
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NOTE: The application / location for the materials indicated is not limited to the list below and is to be used in conjunction with and may be supplemented by the Specifications, Schedules, and Drawings. Refer to Specifications, Schedules, and Drawings for full extent of material application and additional material types.

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		<p>Mullion Size: 63.5mm x 133.4mm profile 63.5mm x 101.6mm profile at existing columns</p> <p>25mm cap at end of field locations.</p> <p>Structural Silicone Glazing (SSG) at all vertical joints.</p> <p>Finish: MET-A3</p>	
<p>CW-2</p>	<p>Window System</p>	<p>Flush Front Thermally Broken Ribbon Window System - Interior Glazed; to CAN/CSA A440/A440.1</p> <p>Thermal Break: Glass fibre reinforced polyamide porthole extrusion</p> <p>Material: Aluminum Alloy - 6063</p> <p>Mullion Size: 19mm x 127mm Mullion Face/Sightline: 57mm</p> <p>19 mm wide Stopblocks</p> <p>Finish: MET-A3</p>	<p>Ground, 2nd, 3rd, 4th and 5th floors.</p> <p>Strip Windows</p> 
<p>CW-3</p>	<p>Curtain Wall System – High Span</p>	<p>Thermal Broken Curtain Wall System</p> <p>Material: Aluminum Alloy – 6063</p> <p>Final dimensions of system per CW engineering requirements</p> <p>Mullion Size: 63.5mm x 254mm profile everywhere except 63.5mm x 133.4mm profile at Atrium clerestory horizontal mullions at 5th floor level</p> <p>25mm cap at end of field locations.</p> <p>4-sided Structural Silicone Glazing (SSG).</p> <p>Finish: MET-A1 Provide exterior knife</p>	<p>Atrium/ Grafton St Entrance</p> 

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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		blades as required to support CW-VS1 vertical sunshade at Atrium clerestory.	
CW-4	Curtain Wall System South Block 3rd floor	<p>Thermal Broken Curtain Wall System Material: Aluminum Alloy – 6063</p> <p>Mullion Size: 63.5mm x 254mm tapered profile at end of field locations , 63.5mm x 168.3mm rect. profile at middle vertical mullions. Structural Silicone Glazing (SSG) at all vertical joints..</p> <p>Colour: MET-A1</p>	<p>South Block 3rd Floor Special Surround Mullion Cap 25254</p> 
CW-VS1	Curtain Wall System Vertical Sunshade	<p>Vertical Sunshade – Material: Aluminum Alloy – 6063</p> <p>Sunshade size: 63mm x 305mm</p> <p>Fastened to the CW-3 curtain wall framing.</p> <p>Colour: MET-A2 (light bronze)</p>	
FLM-1	Glazing Film	<p>Standard of Acceptance: 3M</p> <p>Product: Dusted Crystal</p> <p>Code: 7725SE-314</p>	<p>Glass Fronts</p> <p>*Refer to Signage Package</p>
FLM-2	Glazing Film	<p>Standard of Acceptance: 3M</p> <p>Product: Dusted Crystal</p> <p>Code: 7725SE-314</p>	<p>Bike Storage Glass Front</p> <p>*Refer to Signage Package</p>
GL-BL	Ballistic Glass	<p>Type: Laminated Ballistic</p> <p>Thickness: 32mm = 3mm + 0.6 urethane interlayer +25mm + 0.6 urethane interlayer +3mm</p> <p>Glass 1 (3mm): Mar-Resistant Polycarbonate</p> <p>Interlayer: .060 Urethane</p>	At Security Desks


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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		Glass 2 (25mm): Acrylic Interlayer: 0.60Urethane Glass 1 (3mm): Mar-Resistant Polycarbonate Mullion Size: 45mmx100mm Ballistic Aluminum Frame Assembly Rated: ULC-752-3	
GL-FR1	Fire Rated Glass	Clear laminated ceramic glazing material Thickness: 8mm	
GL-L1	Laminated Tempered Glass	Type: Laminated Float Glass Thickness: 13mm Glass 1 (6mm): Clear Float Glass Interlayer: 0.60 PVB interlayer Glass 2 (6mm): Clear Float Glass	Building Entrances
GL-L2	Laminated Tempered Glass	Type: Laminated Safety Thickness: 21 mm Glass 1 (10mm): Clear Tempered Glass Interlayer: 0.80 PVB interlayer Glass 2 (10mm): Clear Tempered Glass 2mm chamfer on all glass edges	Bridge and Stair Guards
GL-T1	Tempered Safety Glass	Type: Tempered Glass, impact resistant Thickness: 6 mm	Doors, as per Door/Hardware Schedule indicated on drawings
GS-1	Glass Partition System	Aluminum Framed Full Height Glazed Partition System Glass: Glass 1 (4mm): Tempered Glass	All interior Single Glazed Glass Fronts
	Single Glazed		

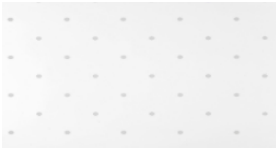
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		<p>Laminate 1: 0.8 PVB laminate Glass 2 (4mm) Tempered Glass</p> <p>Mullion Size: 45mmx95mm - Horizontal Mullions, End of Range Terminations and Door Frames 90mmx95mm - Perpendicular Butt Joint Walls, Extra Clear Silicone butt joints all remaining vertical locations</p> <p>Frame Colour: Dark Grey / Graphite RGB Colour Code: 60,61,6</p> <p>Doors: Wood doors by Division 8. See Door/Hardware Schedule</p>	
GS-2	<p>Glass Partition System</p> <p>Double Glazed</p>	<p>Aluminum Framed Full Height Glazed Partition System</p> <p>Glass: 9.5mm + Airspace + 9.5mm</p> <p>Glass 1 (4mm): Tempered Glass Laminate 1: 0.8 PVB laminate Glass 2 (4mm): Float Glass Gap 1: Glass 3 (4mm): Float Glass Laminate 2: 0.8 PVB laminate Glass 4 (4mm): Tempered Glass</p> <p>Mullion Size: 45mmx95mm - Horizontal Mullions, End of Range Terminations and Door Frames 90mmx95mm - Perpendicular Butt Joint Walls, Extra Clear Silicone butt joints all remaining vertical locations</p> <p>Frame Colour: Dark Grey / Graphite</p>	All interior Glass Fronts (STC 45)

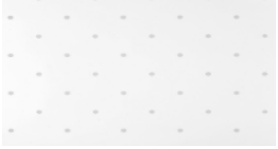
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		RGB Colour Code: 60,61,6 Doors: Wood doors by Division 8	
GS-3	Glass Partition System Double Glazed	Aluminum Framed Full Height Glazed Partition System Glass: 12.5mm + Airspace + 12.5mm Glass 1 (5mm): Tempered Glass Laminate 1: 2.3 PVB laminate Glass 2 (5mm): Float Glass Gap 1: Glass 3 (5mm): Float Glass Laminate 2: 2.3 PVB laminate Glass 4 (5mm): Tempered Glass Mullion Size: 45mmx165mm - Horizontal Mullions, End of Range Terminations and Door Frames 90mmx165mm - Perpendicular Butt Joint Walls, Extra Clear Silicone butt joints all remaining vertical locations Colour: Dark Grey / Graphite RGB Colour Code: 60,61,6 Doors: Wood doors by Division 8	All interior Glass Fronts (STC 52)
IGU-1V1	Insulated Glass Vision Glazing Double Glazed Bird Friendly to meet (CSA) A460:19	VISIBLE LIGHT Transmittance - 68 % Reflectance outside - 11 % Reflectance inside - 12 % General Color Rendering Index (CRI) - 95.4 ULTRAVIOLET Transmittance UV - 30 % SOLAR ENERGY Solar transmittance - 33 % Reflectance outside - 33 %	On CW-2 at Floors 3-5 

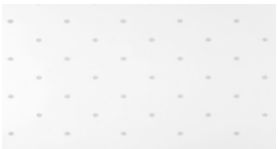
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		Reflectance inside - 36 % Solar absorptance - 34 % SHGC - 0.37 Shading Coefficient - 0.43 THERMAL PROPERTIES Winter night U-Value - 0.245 Summer day U-value - 0.220 Light to Solar Gain - 1.82 25mm IGU = 6 mm + 13mm air space + 6 mm. Glass 1 (6mm): Clear Float Glass w/ #1 Bird Friendly Acid Etch Pattern No. 17 Gap 1 (13mm): Required min 0.25U Argon filled, Warm Edge spacer, black Glass 2 (6mm): Clear Float Glass w/ #2 Low-e Coating	
IGU-1V2	Insulated Glass Vision Glazing Double Glazed Bird Friendly to meet (CSA) A460:19	VISIBLE LIGHT Transmittance - 68 % Reflectance outside - 11 % Reflectance inside - 12 % General Color Rendering Index (CRI) - 95.4 ULTRAVIOLET Transmittance UV - 30 % SOLAR ENERGY Solar transmittance - 33 % Reflectance outside - 33 % Reflectance inside - 36 % Solar absorptance - 34 % SHGC - 0.37 Shading Coefficient - 0.43 THERMAL PROPERTIES Winter night U-Value - 0.245 Summer day U-value - 0.220 Light to Solar Gain - 1.82 25mm IGU = 6 mm + 9mm air space +	On CW-3 & CW-4 at Floors 3-5 

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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		10 mm. Glass 1 (6mm): Clear Float Glass w/ #1 Bird Friendly Acid Etch Pattern No. 17 Gap 1 (9mm): Required min 0.25U Argon filled, Warm Edge spacer, black Glass 2 (10mm): Clear Float Glass w/ #2 Low-e Coating	
IGU-2V1	Insulated Glass Vision Glazing Double Glazed Bird Friendly to meet (CSA) A460:19 Security Interlayer to comply with ULC-S332	VISIBLE LIGHT Transmittance - 68 % Reflectance outside - 11 % Reflectance inside - 12 % General Color Rendering Index (CRI) - 95.4 ULTRAVIOLET Transmittance UV - 30 % SOLAR ENERGY Solar transmittance - 33 % Reflectance outside - 33 % Reflectance inside - 36 % Solar absorptance - 34 % SHGC - 0.37 Shading Coefficient - 0.43 THERMAL PROPERTIES Winter night U-Value - 0.245 Summer day U-value - 0.220 Light to Solar Gain - 1.82 25mm IGU = 6 mm + 9mm air space + 5 mm + .060 PVB interlayer + 5 mm. Glass 1 (6mm): Clear Float Glass w/ #1 Bird Friendly Acid Etch Pattern No. 17 Gap 1 (9mm): Required min 0.25U Argon filled, Warm Edge spacer, black Glass 2 (5mm): Clear Float Glass w/ #2 Low-e Coating	On CW-1 & CW-3 at Ground and 2nd Floor 


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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		Interlayer: 060 PVB interlayer Glass 3 (5mm): Clear Float Glass	
IGU-2V2	Insulated Glass Vision Glazing Double Glazed Bird Friendly to meet (CSA) A460:19 Security Interlayer to comply with ULC-S332	VISIBLE LIGHT Transmittance - 68 % Reflectance outside - 11 % Reflectance inside - 12 % General Color Rendering Index (CRI) - 95.4 ULTRAVIOLET Transmittance UV - 30 % SOLAR ENERGY Solar transmittance - 33 % Reflectance outside - 33 % Reflectance inside - 36 % Solar absorptance - 34 % SHGC - 0.37 Shading Coefficient - 0.43 THERMAL PROPERTIES Winter night U-Value - 0.245 Summer day U-value - 0.220 Light to Solar Gain - 1.82 25mm IGU = 4 mm + 12mm air space + 5 mm + .060 PVB interlayer + 4 mm. Glass 1 (4mm): Clear Float Glass w/ #1 Bird Friendly Acid Etch Pattern No. 17 Gap 1 (12mm): Required min 0.25U Argon filled, Warm Edge spacer, black Glass 2 (5mm): Clear Float Glass w/ #2 Low-e Coating Interlayer: 060 PVB interlayer Glass 3 (4mm): Clear Float Glass	On CW-2 at Ground and 2nd Floor. 

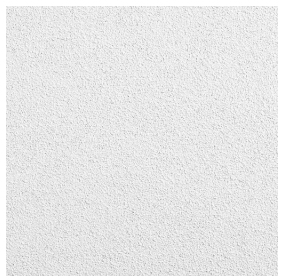
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
IGU-1S	<p>Insulated Glass Shadow Box Match IGU-1V glass Double Glazed Bird Friendly to meet (CSA) A460:19</p>	<p>VISIBLE LIGHT Transmittance - 68 % Reflectance outside - 11 % Reflectance inside - 12 % General Color Rendering Index (CRI) - 95.4 ULTRAVIOLET Transmittance UV - 30 % SOLAR ENERGY Solar transmittance - 33 % Reflectance outside - 33 % Reflectance inside - 36 % Solar absorptance - 34 % SHGC - 0.37 Shading Coefficient - 0.43 THERMAL PROPERTIES Winter night U-Value - 0.245 Summer day U-value - 0.220 Light to Solar Gain - 1.82</p> <p>25mm IGU = 6 mm + 13mm air space + 6 mm.</p> <p>Glass 1 (6mm): Clear Float Glass w/ #1 Bird Friendly Acid Etch Pattern No. 17 Gap 1 (13mm): Required min 0.25U Argon filled, Warm Edge spacer, black Glass 2 (6mm): Clear Float Glass w/ #2 Low-e Coating Insulation: 102mm INS-3Gun Welded Stick Pins – 1 per 0.1m2 Linear Back Panel: Galvanized sheet metal</p>	

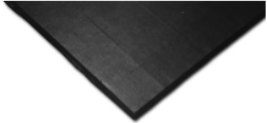
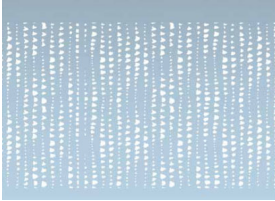
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
MIR-1	Fixed Position Mirror	<p>Product: Fixed-Position Mirror</p> <p>Material: Mirror Frame should be 18-8, Type-430, heavy-gauge stainless steel. 13 x 13 mm angle with vertical-grain satin finish. Wall Frame should be 18-8, Type-430, heavy-gauge stainless steel with satin finish. Mirror should be No.1 quality, 6mm select float glass.</p> <p>All mirror edges should be polished and protected by plastic filler strips.</p>	
MIR-2	Mirror - Washrooms	<p>Refer to Washroom Elevations for more information</p> <p>Frame Finish: Satin Stainless Steel</p>	NO IMAGE
MIR-3	Mirror – Fitness Center	<p>Refer to Fitness Center for more information</p> <p>Frame Finish: Satin Stainless Steel</p>	NO IMAGE


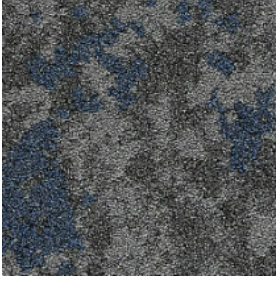
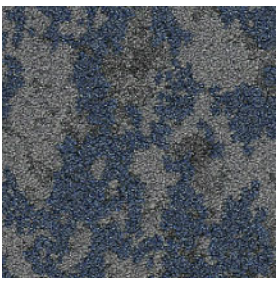
DIVISION 09 – FINISHES

ACT-1	Acoustic Ceiling Tile	<p>Product: Acoustic Ceiling Tile</p> <p>Edge: Tegular</p> <p>Colour: White</p> <p>Size: 500x1500mm</p> <p>NRC Rating: 0.75</p> <p>CAC rating: 35</p> <p>Fire Class: Class A (UL)</p> <p>Grid: 9/16" Suprafine White</p>	<p>General</p> 
AWP-1 and AWP-2		Refer to description under Custom Atrium Acoustic Panels WD-PNL-2	


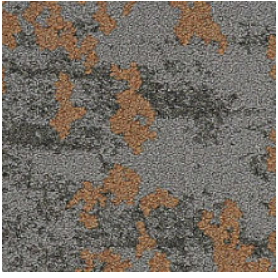
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
AWP-3	Acoustic Board	<p>Semi-rigid glass fibre sound attenuation board insulation with a black glass fibre mat surface.</p> <p>Thickness 25mm</p> <p>NRC = 0.70</p> <p>Compliance: Type I ASTM C553 Type I ASTM C612 Fire Flame Spread <25; Smoke Developed <50 CAN/ULC-S102</p>	<p>Custom Atrium Acoustic Panel:</p>  <p>Superior Acoustical Performance</p>
AWP-4	Acoustical Wall Panel - Suspended	<p>Product: Acoustical Wall Panel</p> <p>Material: 100% polyester, approximately 50% should be recycled water/soda bottles</p> <p>Colour: TBD</p> <p>Pattern: Custom Cut: TBD</p> <p>Size: 1220mm W x 2440mm H x 12mm thick</p> <p>Hardware: Cable suspension at ceiling (T-bar).</p>	<p>Review A91 Series Wall Finishes Plans for Locations</p> 
CPTT-1	Carpet Tile	<p>Product: Grey Carpet Tile</p> <p>Material: 100% recycled nylon fiber</p> <p>Dye Method: 100% solution dyed</p> <p>Colour: Blend of gray tones to coordinate with CPTT-2</p> <p>Size: 305 mm x 914 mm</p> <p>Construction: Textured Pattern Multi-Colours Loop</p> <p>Installation Method: Half Lap</p> <p>*Water-based releasable adhesive</p>	<p>Corridors/ Locker Rooms</p> <p>NO IMAGE</p>


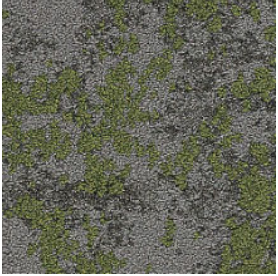
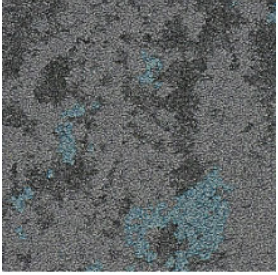
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
CPTT-2	Carpet Tile	Product: Grey Carpet Tile Material: 100% recycled nylon fiber Dye Method: 100% solution dyed Colour: Grey tone blend Size: 305 mm x 914 mm Construction: Textured Patterned Multi-Coloured Loop Pattern: Bark look Installation Method: Half Lap *Water-based releasable adhesive	General Open Workstation 
CPTT-3	Carpet Tile	Product: Grey/Blue Carpet Tile Material: 100% recycled nylon fiber Dye Method: 100% solution dyed Colour: Blend of two grey tones and a small amount of indigo blue Size: 305 mm x 914 mm Construction: Textured Patterned Multi-Coloured Loop Pattern: Bark look Installation Method: Half Lap *Water-based releasable adhesive	Accent Open Workstation Floor 1 
CPTT-4	Carpet Tile	Product: Grey/Blue Carpet Tile Material: 100% recycled nylon fiber Dye Method: 100% solution dyed Colour: Blend of two grey tones and indigo blue Pattern: Bark look varying with colour Size: 305 mm x 9104 mm Construction: Textured Patterned Multi-Coloured Loop	Enclosed Rooms Floor 1 

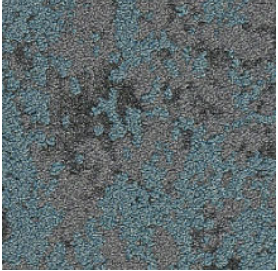

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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		Installation Method: Half Lap *Water-based releasable adhesive	
CPTT-5	Carpet Tile	Product: Grey/ Terracotta Carpet Tile Material: 100% recycled nylon fiber Dye Method: 100% solution dyed Colour: Blend of two grey tones and small amount of terracotta Pattern: Bark look Size: 305 mm x 914 mm Construction: Textured Patterned Multi-Coloured Loop Installation Method: Half Lap *Water-based releasable adhesive	Accent Open Workstation Floor 2 
CPTT-6	Carpet Tile	Product: Grey/ Terracotta Carpet Tile Material: 100% recycled nylon fiber Dye Method: 100% solution dyed Colour: Blend of two grey tones and terracotta Pattern: Bark look varying with colour Size: 305 mm x 914 mm Construction: Textured Patterned Multi-Coloured Loop Installation Method: Half Lap *Water-based releasable adhesive	Enclosed Rooms Floor 2 



NOTE: The application / location for the materials indicated is not limited to the list below and is to be used in conjunction with and may be supplemented by the Specifications, Schedules, and Drawings. Refer to Specifications, Schedules, and Drawings for full extent of material application and additional material types.

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
CPTT-7	Carpet Tile	Product: Green and Grey Carpet Tile Material: 100% recycled nylon fiber Dye Method: 100% solution dyed Colour: Blend of two grey tones with a small amount of green Pattern: Bark look Size: 305 mm x 914 mm Construction: Textured Patterned Multi-Coloured Loop Installation Method: Half Lap *Water-based releasable adhesive	Accent Open Workstation Floor 3 
CPTT-8	Carpet Tile	Product: Green, and Grey Carpet Tile Material: 100% recycled nylon fiber Dye Method: 100% solution dyed Colour: Blend of two grey tones with green Pattern: Bark look varying with colour Size: 305 mm x 914 mm Construction: Textured Patterned Multi-Coloured Loop Installation Method : Half Lap *Water-based releasable adhesive	Enclosed Rooms Floor 3 
CPTT-9	Carpet Tile	Product: Light Blue and Grey Carpet Tile Material: 100% recycled nylon fiber Dye Method: 100% solution dyed Colour: Blend of two grey tones with a small amount of light blue Pattern: Bark look Size: 305 mm x 914 mm Construction: Textured Patterned Multi-	Accent Open Workstation Floor 4 

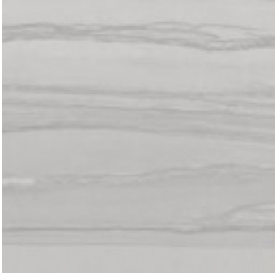

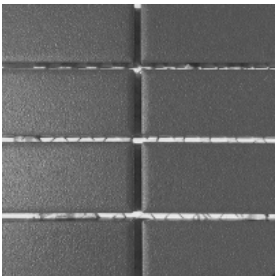
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		<p>Coloured Loop Installation Method: Half Lap *Water-based releasable adhesive</p>	
<p>CPTT-10</p>	<p>Carpet Tile</p>	<p>Product: Light Blue and Grey Carpet Tile Material: 100% recycled nylon fiber Dye Method: 100% solution dyed Colour: Blend of two grey tones with light blue Pattern: Bark look varying with colour Size: 305 mm x 914 mm Construction: Textured Patterned Multi-Coloured Loop Installation Method: Half Lap *Water-based releasable adhesive</p>	<p>Enclosed Rooms Floor 4</p> 
<p>CPTT-11</p>	<p>Carpet Tile</p>	<p>Product: Blue and Grey Carpet Tile Material: 100% recycled nylon fiber Dye Method: 100% solution dyed Colour: Blend of two grey tones with a small amount of light grey Pattern: Bark look Size: 305 mm x 914 mm Construction: Textured Patterned Multi-Coloured Loop Installation Method: Half Lap</p>	<p>Accent Open Workstation Floor 5</p> 



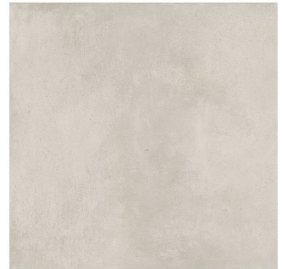
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		*Water-based releasable adhesive	
CPTT-12	Carpet Tile	Product: Beige and Grey Carpet Tile Material: 100% recycled nylon fiber Dye Method: 100% solution dyed Colour: Blend of three tones of grey Pattern: Bark look varying with colour Size: 305 mm x 914 mm Construction: Textured Patterned Multi-Coloured Loop Installation Method: Half Lap *Water-based releasable adhesive	Enclosed Rooms Floor 5 
CT-1	Porcelain Tile	Product : Porcelain Tile, rectified Colour : White Finish : Matte RT Size : 750x1500 mm Thickness : 9mm Grout Joint width : 2mm Slip Resistance: ≥ 0.42	Floor Tile/Corridor & Atrium 



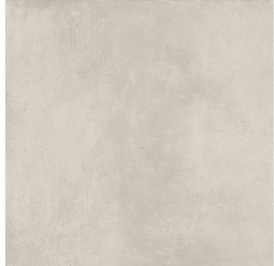
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
CT-2	Porcelain Tile	Product : Porcelain Tile, rectified Colour: Various gray shades with veining Finish: Matte Size: 300mm x 600mm Thickness: 9.5mm Grout Joint width: 2mm	Wall Tile/ Washroom 
CT-3	Porcelain Tile	Product : Porcelain Tile, rectified Colour: Grey Finish: Matte Size: 300mm x 600mm Thickness: 10mm Grout Joint width: 2mm Slip Resistance: 0.62	Wall & Floor Tile/ Washroom 
CT-3A	Porcelain Tile Mosaic	Product : Porcelain Tile Mosaic, rectified Colour: Gray to match CT-3 wall colour Finish: Matte Size: 23x48 mm/300x300 mm meshed Thickness: 10mm Grout Joint width: 2mm	Locker Room Showers 




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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
CT-4	Porcelain Tile	Product : Porcelain Tile, rectified Colour: White with gray variation Finish: Matte Size: 800 x 800 mm Thickness: 10mm Grout Joint width: 2mm Slip Resistance: 0.71	Floor Tile/ Kitchenette/Lounge 
CT-5	Ceramic Tile	Product : Ceramic Tile Colour: White Finish: Gloss Size: 50mmx300mm Installation : Stacked Thickness: 8mm Grout Joint width: 2mm	Wall Tile/ Kitchenette/Lounge 
CT-6	Porcelain Tile	Product : Porcelain Tile , rectified Colour: Pearl Finish: Matte RT Size : 750x1500 mm Thickness : 9mm Grout Joint width: 2mm Slip Resistance: >=0.42	Floor Tile / Kitchenette Ground Floor & Elevator Lobbies 
CTB-1	Wall Base	Product : Porcelain stoneware wall base Colour: White Finish: Matte RT Size: 100mm High Thickness:9mm	Wall Base/ Corridor & Atrium




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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		Grout Joint width:2mm	
CTB-2	Wall Base	Product : Porcelain stone wall base Colour: White with gray variation Finish: Matte Size: 100mm High Thickness: 9.5mm Grout Joint width: 2mm	Wall Base/ Kitchenette/Lounge 
CTB-3	Wall Base	Product : Porcelain stoneware wall base Colour: Pearl Finish: Matte RT Size: 100mm high Thickness: 9mm Grout Joint width: 2mm	Wall Base/ Kitchenette Ground Floor & Elevator Lobbies 
LVT-1	Luxury Vinyl Tile	Product: Luxury Vinyl Tile Tile Size: 250 mm x 1000 mm Thickness: 4.5mm Colour/ Finish: Light Oak colour with antiqued wood grain texture Construction: High performance Luxury Vinyl Tile	Atrium Stage


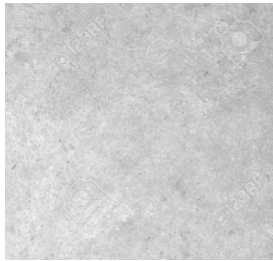
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		<p>Class: Class III Printed Vinyl Plank Wear Layer Thickness: 22mil Installation: Ashlar, in Full Adhesive</p>	
LVT-2	Luxury Vinyl Tile	<p>Product: Luxury Vinyl Tile Tile Size: 500 mm x 500 mm Thickness: 4.5mm Colour/Finish: Blend of cool and warm grays/ Textured stone polished cement look Construction: High performance Luxury Vinyl Tile Class: Class III Printed Vinyl Tile Wear Layer Thickness: 22mil Installation Type: Non-Directional</p>	<p>Storage Rooms</p> 
PT-1	Paint	<p>Product: Off White Paint RGB Code: (229,227,220) Finish: Varies based on application</p>	<p>General/ Ceiling paint</p> 
PT-2	Accent Paint	<p>Product: Charcoal Grey RGB Code: (101,101,98) Finish: Dependant on application</p>	<p>Accent Walls – Kitchenettes, Business Centers, Meeting Rooms, Open Collab Workpoints</p>

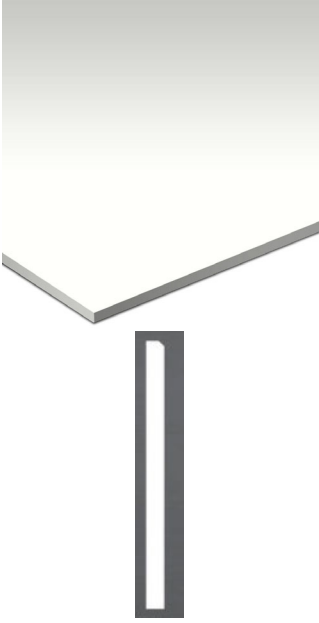
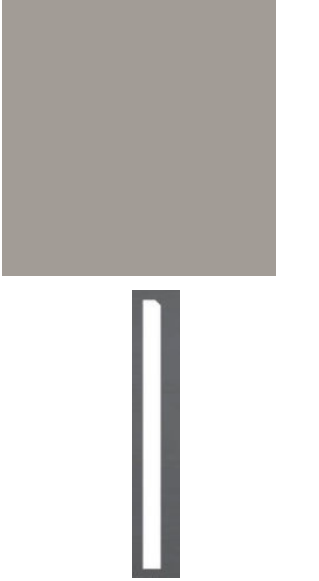
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
			Painted Exposed Ceilings 
PT-3	Paint	Product: Light Grey Paint RGB Code: (207,205,203)	Accent Walls – Wellness Center, Focus Rooms, Phone Rooms, Reflection Rooms 
PT-4	Accent Paint	Product: Medium Grey Paint RGB Code: (183,181,179)	Accent Wall – Work Rooms, Project Rooms 



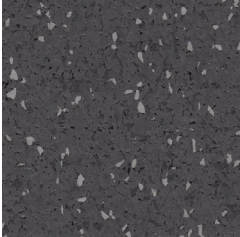
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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
PT-5	Accent Paint	Product: Dusty Grey Paint RGB Code: (159,160,158)	Accent Wall – SPS spaces 
PT-6	Writeable Surface Paint	Product: Dry Erase Top Coat Finish: Clear Gloss Coating Material: Waterbased Polyurethane Allow only for standard dry erase marker writing to be removed using a dry cotton cloth or dry eraser.	ITIM & Admin Application Management – Innovation Lab NO IMAGE
PT-EP1	Epoxy Paint	Product: Two-component water based epoxy, VOC less than 50 g/l, gloss level 3 Application: two (2) coats, 3.0 mils DFT per coat	Basement, Janitor Closets 
PT-SPC	Spray-on Cementitious Wall Finish	Water based acrylic coating with integral quartz aggregates providing lustrous metallic finish COATING THICKNESS 2 coats combined - 1.5 mm Colour: TBD to complement adjacent Titanium Zinc Stair panels.	Atrium Stair E Wall Surfaces

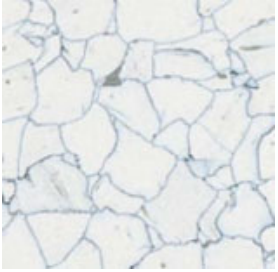


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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
<p>RB-1</p>	<p>Rubber Wall Base</p>	<p>Product: Rubber Wall Base Colour: White Style: Millworkbase with eased edge Size: 100mm high Material: Rubber</p>	<p>Varies, refer to floor finish plan for location</p> 
<p>RB-2</p>	<p>Rubber Wall Base</p>	<p>Product: Rubber Wall Base Colour: Silver Grey Style: Millworkbase with eased edge Size: 100mm high Material: Rubber</p>	<p>Varies, refer to floor finish plan for location</p> 

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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
RB-3	Rubber Wall Base	Product: Rubber Wall Base Colour: Grey Style: Millworkbase with eased edge Size: 100mm high Material: Rubber	Varies, refer to floor finish plan for location 
RST-1	Rubber stair tread	Product: Rubber Stair Tread with integral 50mm colour contrast strip at the nosing to conform to CSA B651-18 Article 5.4.2 Material: Rubber Colour: TBD	Stairs A, B C & D  <small>Rubber Stair Treads</small> <small>PVIRH-KK-RD Round Pattern - Square Nose</small> <small>PVIRH-KK-SQ Square Pattern - Square Nose</small> <small>PVIRH-KK-RD Rubber Tread & Riser - Round Pattern - Square Nose</small> <small>PVIRH-KK-SQ Rubber Tread & Riser - Square Pattern - Square Nose</small> <small>PVIRH-KK Rubber Tread & Riser - Hammered Pattern - Square Nose</small>
RSF-1	Rubber Sheet Flooring	Product : Roll good Rubber Flooring Colour : Dark grey with light grey specks Thickness : 4mm Material : Rubber	Floor Tile/ Wellness Center 

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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
SDT-1	Static Dissipative Tile	<p>Product: Static Dissipative Vinyl Tile with Copper Grounding Straps</p> <p>Material: Dissipative Vinyl, copper grounding strips.</p> <p>Colour: Finish should be white and grey marble finish</p> <p>Dimension of tile: 610mm x 610mm x 3mm THK</p> <p>Dimensions of Copper Strip should be 25.4mm wide, 45.7mm long and 0.1mm thick.</p>	<p>Data, Electrical Room</p> 
STN-1	Natural Limestone	<p>Native Canadian Limestone originating in Wiarton / Owen Sound, Ontario with a fleuri pattern.</p> <p>Vertical Faces: Vein Cut</p> <p>Horizontal Faces: Fleuri Cut</p> <p>Finish: Honed</p> <p>Thickness: 19mm</p> <p>Grout Joint: 1/8", colour to match</p> <p>Epoxy Quirk Mitre Corners, Pencile round edges. Shadow reveal cut at base</p> <p>Size 100mm height (TBD)– Font, layout.</p> <p>Stone joint spacing in coordination / alignment with floor tile</p>	<p>Atrium – Stage</p> <p>Vertical Face (front sides):</p> <p>Vein Cut</p>  <p>Horizontal Face (Top):</p> <p>Fleuri Cut</p> 
VWC-1	Vinyl Wallcovering	<p>Continuous Graphics throughout</p> <p>* Refer to Signage Package for Specification.</p>	<p>Parking Garage</p>

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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
VWC-2	Vinyl Wallcovering	* Refer to Signage Package for Specification.	Wellness Center Interior
VWC-3	Vinyl Wallcovering	* Refer to Signage Package for Specification.	Wellness Center Exterior
VWC-4	Vinyl Wallcovering	Different Graphic Per Floor * Refer to Signage Package for Specification.	Washroom Core
VWC-5	Vinyl Wallcovering	* Refer to Signage Package for Specification.	Corridor 120
VWC-6	Vinyl Wallcovering	Different Graphic Per Floor * Refer to Signage Package for Specification.	Adjacent to Elevator Lobbies
VWC-7	Vinyl Wallcovering	* Refer to Signage Package for Specification.	Museum
VWC-8	Vinyl Wallcovering	RESERVED	
VWC-9	Vinyl Wallcovering	RESERVED	
VWC-10	Vinyl Wallcovering	Different Graphic Per Floor * Refer to Signage Package for Specification.	Locker Core



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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
VWC-11	Vinyl Wallcovering	Different Graphic Per Floor * Refer to Signage Package for Specification.	Locker Core 2
VWC-12	Vinyl Wallcovering	Different Graphic Per Floor * Refer to Signage Package for Specification.	Washroom Cores – South Block
VWC-13	Vinyl Wallcovering	* Refer to Signage Package for Specification.	Meeting Room 2-86 Exterior
VWC-14	Vinyl Wallcovering	* Refer to Signage Package for Specification.	Locker 3-70 Exterior
VWC-15	Vinyl Wallcovering	* Refer to Signage Package for Specification.	Open Workspace 5-14
VWC-16	Vinyl Wallcovering	Different Graphic Per Floor * Refer to Signage Package for Specification.	Elevator Lobbies

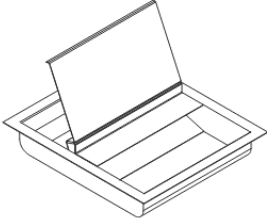

DIVISION 10 – SPECIALTIES

BFL-1	Bottle Filler	Supplied and installed under Division 22, Plumbing	
BP-1	Fiberglass Ballistic Panel	Product: Bullet-Resistant Fiberglass Thickness: 12mm Must have ballistic rating of UL 752, Level 3 and N.I.J 0108.01 Level IIIA Panels must be rated ULC-752-3	Security Office



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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
CH-1	Coat Hook	<p>Product: Surface-Mounted Coat Hook</p> <p>Materials: Flange and Support Arm are 18-8, Type-304, 22-gauge (0.8mm) stainless steel.</p> <p>Concealed wall plate should be 18-8, Type-304, 16-gauge (1.6mm) stainless steel</p> <p>Cap should be 18-8, Type-304, 10-gauge (3.6mm) stainless steel</p> <p>Size: Flange is 50 x 50mm. Hook 13mm wide, projects 40mm from wall.</p> <p>Finish: Satin stainless steel</p> <p>Supplier/Installer: Contractor supplied/ Contractor Installed</p>	
CH-2	Coat Hook	Supplied and installed by Toilet Compartment Manufacturer	NO IMAGE
CG-1	Corner Guard	<p>Product: Stainless Steel Corner Guard</p> <p>Material: Type 304 Stainless Steel</p> <p>Finish: #4 Satin Finish</p> <p>Size: 50mm x 1219mm x 50mm (WxHxD)</p> <p>Installation: Mastic Construction Adhesive</p>	NO IMAGE
BCT-1	Baby Changing Table	<p>Product: Horizontal Stainless Steel Wall Mounted Baby Changing Table</p> <p>Size: Unit Dimensions: 892 mm x 508 mm Depth (closed): 102 mm Extension (open): 483 mm</p> <p>Material: 18 gauge, Type-304 satin stainless steel exterior finish with blow molded high-density grey polyethylene</p>	



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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		Finish: Stainless Steel Minimum holding capacity: 22.68 kg Supplier/Installer: Contractor supplied/ Contractor Installed	
DT-1	Deal Tray	Product: Recessed Flip Lid Currency Tray Material: 18 ga Stainless Steel with welded connections Should be bullet-proof. Dimensions: 368mm x 419mm x 70mm Standard of Acceptance: Total Security Solutions Product: Recessed Flip Lid Deal Tray 368mm x 419mm x 70mm Rated ULC-752-3	
GRB-1	Grab Bar	Product: 32mm Diameter Stainless Steel Grab Bars with Snap Flange Clearance from wall : 38mm Length : 610mm Material : 18-1, Type-304, 18-Gauge (1.2mm) Stainless steel tubing with a satin finish and slip resistant surface. Mounting flanges to be 18-8, Type-304, 11-gauge (3.2mm) thick, Stainless steel plates. Snap Flange Covers to be 18-8, Type-304, 22-gauge (0.8mm) drawn stainless steel with satin finish. Strength : 408 kg Supplier/Installer: Contractor supplied/ Contractor Installed	Barrier Free WR/Stalls & Universal Washrooms 

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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
GRB-2	Grab Bar L-Shaped	<p>Product: 32mmDiameter Stainless Steel Grab Bars with Snap Flange</p> <p>Clearance from wall : 38mm</p> <p>Material : Grab bar to be 18-1, Type-304, 18-Gauge (1.2mm) Stainless steel tubing with a satin finish and slip resistant surface.</p> <p>Mounting flanges to be 18-8, Type-304, 11-gauge (3.2mm) thick, Stainless steel plates.</p> <p>Snap Flange Covers to be 18-8, Type-304, 22-gauge (0.8mm) drawn stainless steel with satin finish.</p> <p>Strength : 408 kg</p> <p>Dimension : 760mm x 760mm</p>	<p>Barrier Free WR/Stalls & Universal Washrooms</p> 
GRB-3	Grab Bar – L-Shaped Shower	<p>Product: 32mm Diameter Stainless Steel Grab Bars with Snap Flange</p> <p>Clearance from wall : 38mm</p> <p>Length : 750mm</p> <p>Material : Grab bar to be 18-1, Type-304, 18-Gauge (1.2mm) Stainless steel tubing with a satin finish and slip resistant surface.</p> <p>Mounting flanges to be 18-8, Type-304, 11-gauge (3.2mm) thick, Stainless steel plates.</p> <p>Snap Flange Covers to be 18-8, Type-304, 22-gauge (0.8mm) drawn stainless steel</p>	<p>Barrier Free Shower – Vertical Installation</p> 



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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		<p>with satin finish.</p> <p>Strength : 408 kg</p> <p>Supplier/Installer: Contractor supplied/ Contractor Installed</p>	
GRB-4	Grab Bar	<p>Product: 32mm Diameter Stainless Steel Grab Bars with Snap Flange</p> <p>Clearance from wall : 38mm</p> <p>Length : 1000mm</p> <p>Material : Grab bar to be 18-1, Type-304, 18-Gauge (1.2mm) Stainless steel tubing with a satin finish and slip resistant surface.</p> <p>Mounting flanges to be 18-8, Type-304, 11-gauge (3.2mm) thick, Stainless steel plates.</p> <p>Snap Flange Covers to be 18-8, Type-304, 22-gauge (0.8mm) drawn stainless steel with satin finish.</p> <p>Strength : 408 kg</p> <p>Supplier/Installer: Contractor supplied/ Contractor Installed</p>	<p>Barrier Free Shower – Vertical and Horizontal Installation</p> 
OP-1	Operable Partitions	<p>Product: Moveable Wall Partitions</p> <p>STC: 47</p> <p>Panel Type: Full height marker board</p> <p>Size: Refer to Architectural Drawings for sizing – equal panel sizing as required to suite opening.</p> <p>Thickness: 76mm</p>	<p>Teaching Centre</p> 



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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
		Frame: Roll Formed & Welded 16 Gage Steel Seals: Top: Fixed Sweep Bottom: 2" Automatic,	
PTDD-1	Paper Towel Dispenser and Disposal	Surface Mounted Paper Towel/ Waste Receptacle Supplied/Installed: Owner Supplied/ Contractor Installed	NO IMAGE
PTN-1	Toilet Partition	Product: Full Height Toilet Compartments Solid colour partitions Colour - metallic stainless steel Material: HDPE Waterproof and nonabsorbent, with self-lubricating surface, resistant to marks by pens, pencils, markers, and other writing instruments. Partition thickness: 25mm. Finish: #4 Brushed Stainless Steel Supplier/Installer: Contractor supplied/ Contractor Installed	NO IMAGE
SD-1	Soap Dispenser	Automatic Wall-Mounted Foam Soap Dispenser Supplier/Installer: Owner supplied/ Contractor Installed	NO IMAGE
SD-2	Soap Dispenser	Automatic Wall-Mounted Foam Soap Dispenser Supplier/Installer: Owner supplied/ Contractor Installed	NO IMAGE
SD-3	Recessed Soap Shelf	RESERVED Supplier/Installer: Contractor supplied/ Contractor Installed	Showers/ Locker Room

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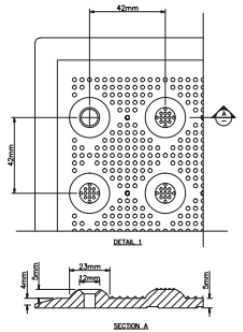
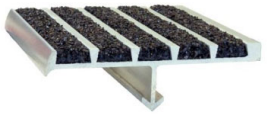
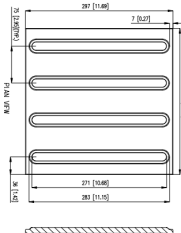
CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
SHCU-1	Shower Curtain	<p>Product: Vinyl Shower Curtain</p> <p>Materials : Curtain should be an opaque, vinyl material that is 0.2mm thick.</p> <p>Curtain should have HDPE grommets every 150mm.</p> <p>Standard of Acceptance: Bobrick</p> <p>Product: B-204-2</p> <p>Size: To suite shower opening</p> <p>Colour: TBD</p> <p>*Provide B-204-01 shower curtain hooks</p> <p>Supplier/Installer: Contractor supplied/ Contractor Installed</p>	
SHR-1	Shower Rod	<p>Product: Heavy Duty Shower Curtain Rod with Concealed Mounting and Stainless Steel Shower Curtain Hooks</p> <p>Size: To suite shower opening</p> <p>Material : Curtain Rod to be 18-8, Type-304, 20-gauge (1.0mm) stainless steel tubing with satin finish, 25mm outside diameter,</p> <p>Flanges to be 35mm diameter, chrome-plated plastic. Bright polished finish.</p> <p>Concealed mounting brackets to be Aluminum.</p> <p>Size: To suite shower opening</p> <p>Finish: Satin Finishes Stainless Steel</p> <p>Supplier/Installer: Contractor supplied/ Contractor Installed</p>	

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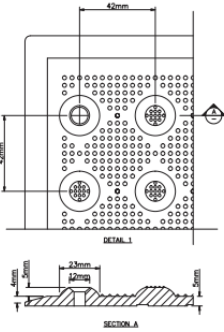

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
SHST-1	Shower Seat	<p>Product: Reversible Folding Shower Seat</p> <p>Seat should be durable, water-resistant, ivory-coloured 13mm thick solid phenolic.</p> <p>Frame and mounting brackets are type 304 stainless steel with satin finish, and should have self-locking mechanisms.</p> <p>Must support up to 163kg.</p> <p>Seat dimensions are 840mm wide and projects 565mm from the wall when in use.</p> <p>Standard of Acceptance: Bobrick</p> <p>Product: B-5181</p> <p>Finish: Satin stainless steel and matter antique white phenolic</p> <p>Supplier/Installer: Contractor supplied/ Contractor Installed</p>	
SND-1	Sanitary Napkin Disposal	<p>Surface-Mounted Sanitary Napkin Disposal</p> <p>Supplier/Installer: Owner supplied/ Contractor Installed</p>	NO IMAGE
SND-2	Sanitary Napkin Dispenser	<p>Semi Recessed - Mounted Sanitary Napkin Dispenser Flat door design with 90° return.</p> <p>Size: 330mm W x 711mm H.</p> <p>Material: 18-8, Type-304, 18-gauge (1.2mm) stainless steel. All-welded construction</p> <p>Finish: Satin Stainless steel</p> <p>Projection: 100mm</p> <p>Operation:</p> <p>Push-Button Operation and two tumbler door locks keyed</p> <p>Capacity: Holds 30 tampons, 20 napkins</p> <p>Supplier/ Installer: Contractor supplied/ Contractor installed</p>	

~~25 Aug~~**01 Sep** 2022


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CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
TBR-1	Toilet Backrests	Refer to Mechanical Schedules for Specification Supplier/Installer: Contractor supplied/ Contractor Installed	NO IMAGE
TPH-1	Toilet Paper Holder	Surface-Mounted Multi-Roll Toilet Tissue Dispenser Supplier/Installer: Owner supplied/ Contractor Installed	NO IMAGE
TWS-1	Tactile Attention Indicator	610mm x 610mm Tile Colour Contrasting Surface formed of Truncated Domes of 4mm height arranged in a square grid to conform to CSA B651-18 Article 4.3.5.3.1	
TWS-2	Stair Nosing	75 Deep x 12mm H Colour Contrast Carborundum Strips with integral mounting hooks	
TWS-3	Tactile Direction Indicator	305x305 Tile Colour Contrasting Surface formed of Truncated Bars of 4mm height and 270mm length arranged in a square grid to conform to CSA B651-18 Article 4.3.5.4.1	



NOTE: The application / location for the materials indicated is not limited to the list below and is to be used in conjunction with and may be supplemented by the Specifications, Schedules, and Drawings. Refer to Specifications, Schedules, and Drawings for full extent of material application and additional material types.

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
TWS-4	Tactile Attention Indicator	Surface Applied 610mm Deep x Stair Width Colour Contrasting Surface formed of Truncated Dome of 4mm height arranged in a square grid to conform to CSA B651-18 Article 4.3.5.3.1	
LECT-1	Lectern	Metal, height adjustable, accessible base with cable pass through Finish: Ebony Black	


DIVISION 12 – FURNISHINGS

FG-1	Entrance Floor Grille	Aluminum Floor Grille 30 mm deep Aluminum Backpan 9.5 x 3 x 25mm Aluminum T-shaped Profile Bars Striated every 25mm with AntiSlip surface both directions Concealed Aluminum Integral Mounting Tracks at 100mm O.C. Bars Oriented perpendicular to travel direction Material: Aluminum Alloy 6061-T6 Mill Finish	
------	------------------------------	--	---

NOTE: The application / location for the materials indicated is not limited to the list below and is to be used in conjunction with and may be supplemented by the Specifications, Schedules, and Drawings. Refer to Specifications, Schedules, and Drawings for full extent of material application and additional material types.

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
WTR-M-RS-1	Roller Shades - Manual	<p>Product: Manual shades with pull chains</p> <p>Must have reverse roll fabric drop and concealed hembar</p> <p>Pull chains should be located at exterior edges of shade only.</p> <p>Fabric: White basket-weave design manual shade in standard pocket; reverse roll fabric drop; concealed, fabric-wrapped hembar; width to cover window opening in maximum 2 sections</p> <p>chains to be at outside edges only, no chains in the middle</p> <p>Fabric: TBD</p> <p>Openness: 5%</p> <p>Casing to match CW-4 mullion finish</p>	<p>South Block 3rd Floor New Windows</p> 
WTR-A-RS-2	Roller Shades - Motorized	<p>Product: Concealed Motorized Roller Shade Scrim</p> <p>Product: MagnaShade by Mecho;</p> <p>Must include stiffened concealed hembar, channel tracks in jamb and sill, and base channel to receive and lock stiffened concealed hembar;</p> <p>Casing to match CW-1 mullion finish</p> <p>Fabric: White basket-weave design</p> <p>Openness: 5%</p>	<p>Ground Floor Kent St Façade Privacy Screen</p> 

NOTE: The application / location for the materials indicated is not limited to the list below and is to be used in conjunction with and may be supplemented by the Specifications, Schedules, and Drawings. Refer to Specifications, Schedules, and Drawings for full extent of material application and additional material types.

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION
			
<p>WTR-M-RS-3</p>	<p>Roller Shades – Strip Windows</p>	<p>Product: Manual shades with pull chains</p> <p>Must have reverse roll fabric drop and concealed hembar</p> <p>Fabric: White basket-weave design</p> <p>Surface mounted manual shade; reverse roll fabric drop; concealed, fabric-wrapped hembar;</p> <p>Openness: 5%</p>	<p>Strip Windows</p>

END OF SECTION

DOOR HARDWARE

08 71 10 **_R2**



PROJECT:

Daniel J MacDonald Modernization
Charlottetown, P.E.I.

ARCHITECT:

NORR

175 Bloor Street East, North Tower, 15th Floor
Toronto, Ontario, Canada

Prepared By: Paul Kasak
& Crystal Bradley
Date: September 21, 2021
Revised: September 24, 2021 - Client Changes
January 25, 2022
February 18, 2022
May 27, 2022 IFT
August 18, 2022 Addendum 08
August 24, 2022 Addendum 09
September 9, 2022 Addendum 10

Architectural Hardware Finishes

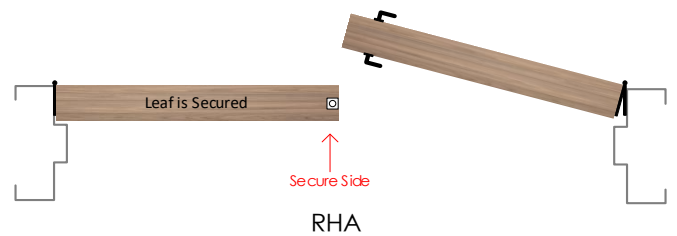
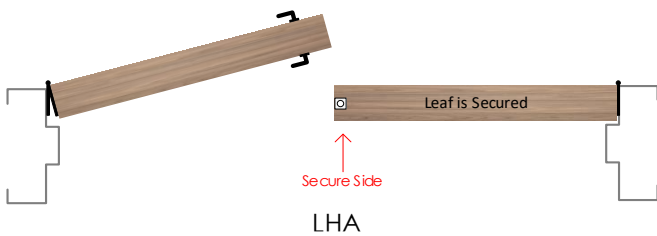
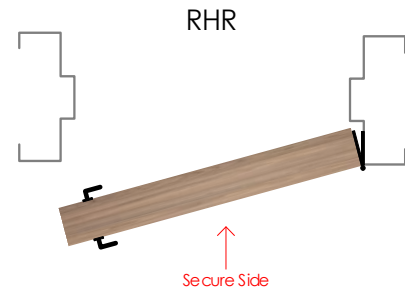
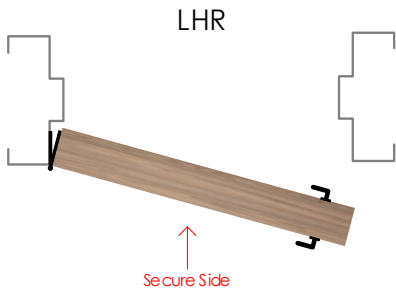
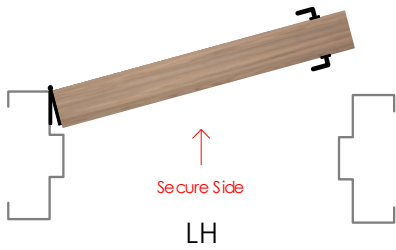
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Clear Anodized / Painted Aluminum					
			628	689	US28
Satin Nickel					
646		619	670		US15
Polished Nickel					
645		618	669		US14
Satin Stainless Steel					
	630				US32D
Polished Stainless Steel					
	629				US32
Satin Chrome					
652		626	702		US26D
Polished Chrome					
651		625	672		US26
Satin Brass					
633		606	667	678	US4
Polished Brass					
632		605	666	677	US5
Satin Bronze					
639		612	668	680	US10
Oil Rubbed Bronze					
640		613	703	695	US10B
Flat Black / Anodized Black					
631		622	671	693	US19

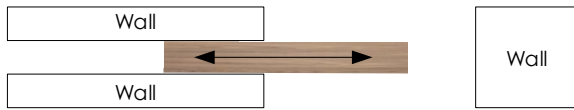
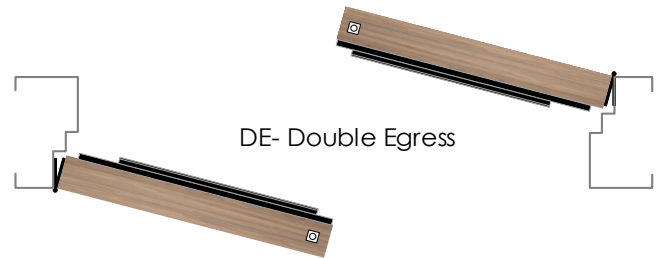
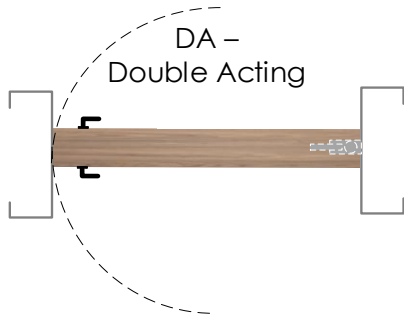
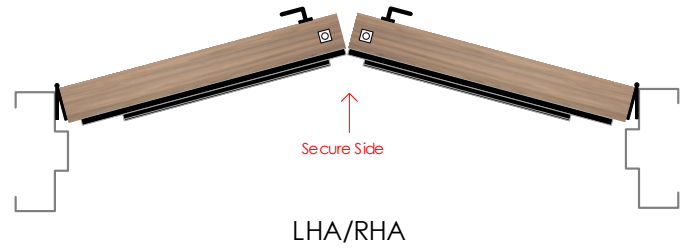
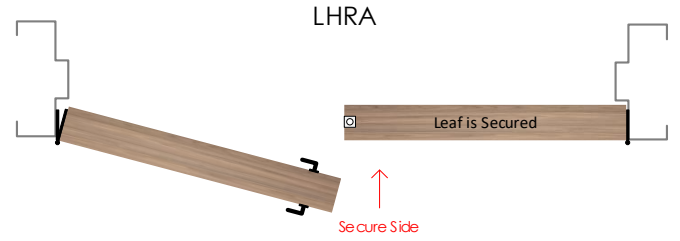
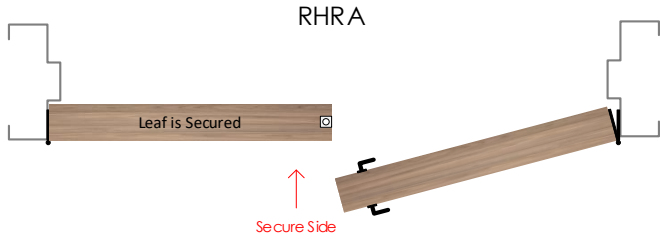
Door Handing's

Abbreviations

RH = Right Hand	RHA = Right Hand Active	SS = Single Slider
LH = Left Hand	LHA = Left Hand Active	BP = Bi-Parting Slider
RHR = Right Hand Reverse	RHA/LHA = Right & Left Hands Active	BF = Bi-Folding Slider
LHR = Left Hand Reverse	RHRA/LHRA = Right & Left Hand Reverse Active	TS = Telescopic Slider
RHRA = Right Hand Reverse Active	DA = Double Acting	PKT = Pocket Slider
LHRA = Left Hand Reverse Active	DE = Double Egress	

NOTE: The handing of a swing door is determined by placing yourself on the secured or keyed side of the door.





PKT- Pocket Door



SS- Single Sliding Door



BP- Bi Parting Sliding Door



BPS- Bi Passing Sliding Door

Products & Alternatives

NOTE: Only those products / brands listed here are acceptable and should be used to form a bid price. No unsolicited products will be considered. If acceptable alternates are listed here those too can be used to form a bid price provided, they are exactly the same as the specified item. If using an alternate product to form a price it is the bidder's responsibility to ensure that product is identical in every way to the specified item. If no alternates are listed, no alternate products are acceptable.

Product Type	Product#	Manufacturer	Alternate Manufacturer 1	Alternate Manufacturer 2
Butt Hinge	TA714 / TA314	McKinney	Ives	Stanley
Butt Hinge	TA786 / TA386	McKinney	Ives	Stanley
Hydraulic Hinge	835E11N	Colcom	***	***
Continuous Hinge	FMSLFHD	Pemko	Ives	Select
Lockset	8200 Series	Sargent	Schlage	Best
Electrified Lockset	8200 Series	Sargent	Schlage	Best
Glass Patch Lockset	CLH x 8200	ASSA	Dorma	***
Exit Device	8600 Series	Sargent	Von Duprin	Dorma
Exit Device	8800 Series	Sargent	Von Duprin	Dorma
Glass Exit Device	PDU8000	ASSA	Dorma	***
Closer	1431 Series	Sargent	LCN	Dorma
Closer	351 Series	Sargent	LCN	Dorma
Overhead Stop	1ADJ	Rixson	Glynn Johnson	ABH
Overhead Stop	6ADJ	Rixson	Glynn Johnson	ABH
Kick Plate	K1050	Rockwood	CBH	Gallery
Pull Handle	RM-2230	Rockwood	CBH	Gallery
Floor Stop	441H	Rockwood	CBH	Gallery
Floor Stop	RM856	Rockwood	CBH	Gallery
Auto Operator	SW200i	Besam	Dorma	***
Auto Operator	OAL-100-CH-L/R	Omega	***	***
Activation Column Switch	CM-7536/4	Camden	BEA	***
Logic Relay	CX-33	Camden	BEA	***
Emergency Call Kit	CX-WEC10K2	Camden	BEA	***
Wave to Lock Kit	CX-WC16	Camden	BEA	***
Sound / Smoke Seal	S773	Pemko	Zero	National Guard
Auto Door Bottom	420APKL	Pemko	Zero	National Guard
Door Sweep	18100NB	Pemko	Zero	National Guard
Astragal	303PK	Pemko	Zero	National Guard
Rex Sensor	XMS	Securitron	BEA	***

Symbols



- Door has a fire rating and all associated hardware must have a fire label to suit. Must comply with local requirements.



- Door is automatic and is equipped with an auto operator. Door must meet local barrier free codes



- Door has an electrical requirement and requires power to be brought to the appropriate location above the door or to the latch, for either security or barrier free applications. Refer to security & electrical drawings for further information.



- Door requires security card access. Refer to security / electrical drawings for further information.

Abbreviations

Door:

HMD = Hollow Metal Door
 IHMD = Insulated Hollow Metal Door
 ALD = Aluminum Door
 SCWD = Solid Core Wood Door
 HCWD = Hollow Core Wood Door
 FGD = Frameless Glass Door
 FRP = Fiberglass Reinforced Plastic Door

Frame:

HMF = Hollow Metal Frame
 ALF = Aluminum Frame
 Cased Open HMF = Cased Open Hollow Metal Frame
 WDF = Wood Frame
 Cased Open WDF = Cased Open Wood Frame
 Cased Open Drywall = Cased Open Drywall

Fire Ratings:

0 HR – Zero Hour Fire Rating / Smoke Barrier
 20 MIN – 20 Minute Fire Rating
 ¼ HR – 45 Minute Fire rating
 1 ½ HR – 90 Minute Fire Rating
 2 HR – 120 Minute Fire Rating
 3 HR – 180 Minute Fire Rating

Disclaimer

Weblinks:

Weblinks do change from time to time as manufacturers move around their websites, please inform us if you have a none functioning weblink.

HARDWARE SCHEDULE



Heading# 1

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	B-01	Location:	F + E Room 1	From	Corridor B-04	Handing:	RHRA

Web Link
Site Verified

By Hardware Supplier						
6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CEPT-10	630 / US32D / Satin Stainless Steel	Securitron		<input type="checkbox"/>
1	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
2	Closer	1431-POT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
2	Kick Plate	K1050, 254 x 890 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
2	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6130	Black	Pemko		<input type="checkbox"/>
1	Astragal	303PK x 2150	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By Security Supplier						
1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
2	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....



Heading# 2

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 12	STC Rating	None
Door Material:	FGD	Frame Material:	ALF	Fire Rating	None

1 Total Openings								
1	Door#	B-02	Location:	Wellness Centre B-02	From	Corridor B-04	Handing:	RHRA

Web Link
Site Verified

By Hardware Supplier					
4	Hydraulic Hinge	835E11N	628 / US28 / Clear Anodized	Colcom	<input type="checkbox"/>
1	Exit Device	PDU8000-3 x 02 x ESK-SGL-LBM (fail secure)	630 / US32D / Satin Stainless Steel	ASSA	<input type="checkbox"/>
1	Exit Device	PDU8000-3 x 02 x MSK-SGL	630 / US32D / Satin Stainless Steel	ASSA	<input type="checkbox"/>
1	Gasketing	By Aluminum Frame Supplier			<input type="checkbox"/>
By Security Supplier					
1	Electronic Keypad	CM-110SK	630 / US32D / Satin Stainless Steel	Camden	<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron	<input type="checkbox"/>
1	Door Contact	MSS-1G	Black	Securitron	<input type="checkbox"/>
1	Access Controller	To Suit Building System			<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet			<input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

.....End of Heading.....



Heading#

3

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	0 HR

1 Total Openings								
1	Door#	B-03	Location:	Lobby B-05	To	IT Operation Storage B-03	Handing:	RHA

Web Link
Site Verified

By Hardware Supplier

6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CEPT-10	630 / US32D / Satin Stainless Steel	Securitron		<input type="checkbox"/>
1	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
2	Closer	1431-O	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
2	Overhead Stop	6ADJ-336	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
1	Coordinator	2672	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
2	Kick Plate	K1050, 254 x 890 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6130	Black	Pemko		<input type="checkbox"/>
2	Door Sweep	18100NB x 915	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
1	Astragal	303PK x 2150	719 Milled Aluminum	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
2	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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

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Heading# 4

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	B-04	Location:	Lobby B-05	To	Corridor B-04	Handing:	RHA

Web Link
Site Verified

By Hardware Supplier					
6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	 <input type="checkbox"/>
1	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood	 <input type="checkbox"/>
1	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood	 <input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent	 <input type="checkbox"/>
2	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent	 <input type="checkbox"/>
1	Coordinator	2672	628 / US28 / Clear Anodized	Rockwood	 <input type="checkbox"/>
2	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	 <input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6130	Black	Pemko	 <input type="checkbox"/>
1	Astragal	303PK x 2150	719 Milled Aluminum	Pemko	 <input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	 <input type="checkbox"/>

.....End of Heading.....



Heading# 5

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	1 HR

1 Total Openings								
1	Door#	B-06A	Location:	Lobby B-05	From	Vestibule B-06	Handing:	LHRA/RHRA

Web Link
Site Verified

By Hardware Supplier						
6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
2	Exit Device / Passage Trim	12-NB-MD8615-F-ETP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
2	Closer	351-CPS	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6130	Black	Pemko		<input type="checkbox"/>
2	Door Sweep	18100NB x 915	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
1	Astragal	303PK x 2150	719 Milled Aluminum	Pemko		<input type="checkbox"/>

.....End of Heading.....



Heading#

6

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	1 HR

2	Total Openings							
1	Door#	B-06B	Location:	Vestibule B-06	From	Parking Area B-30	Handing:	RHRA
1	Door#	B-19A	Location:	Vestibule B-19B	From	Parking Area	Handing:	RHRA

Web Link
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By Hardware Supplier					
12	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	<input type="checkbox"/>
2	Power Transfer	CEPT-10	630 / US32D / Satin Stainless Steel	Securitron	<input type="checkbox"/>
2	Electrified Exit Device / Night Latch Trim	12-55-56-60-MD8606-F-ETP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
2	Exit Device	12-55-MD8610-F	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
4	Closer	351-CPS	689 / US28 / Painted Aluminum	Sargent	<input type="checkbox"/>
2	Sound / Smoke Seal	S773 x 6130	Black	Pemko	<input type="checkbox"/>
4	Door Sweep	18100NB x 915	628 / US28 / Clear Anodized	Pemko	<input type="checkbox"/>
2	Astragal	303PK x 2150	719 Milled Aluminum	Pemko	<input type="checkbox"/>
By Security Supplier					
2	Card Reader	To Suit Building System	Black		<input type="checkbox"/>
2	Rex Sensor	XMS	White	Securitron	<input type="checkbox"/>
4	Door Contact	DPS-M	White	Securitron	<input type="checkbox"/>
2	Access Controller	To Suit Building System			<input type="checkbox"/>
2	Power Supply	To Suit Building System – Located in Nearest IT Closet			<input type="checkbox"/>
By PWGSC					
2	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

.....End of Heading.....



Heading#

7

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

4 Total Openings								
1	Door#	B-07	Location:	Corridor	To	Shower Room B-07	Handing:	LH
1	Door#	B-07A	Location:	Corridor	To	Shower Room B-07A	Handing:	RH
1	Door#	B-08	Location:	Corridor	To	Shower Room B-08	Handing:	LH
1	Door#	B-08A	Location:	Corridor	To	Shower Room B-08B	Handing:	RH

Web Link
Site Verified

By Hardware Supplier						
12	Concealed Bearing Hinge	TA314, 114 x 102 x NRP	630 / US32D / Satin Stainless Steel	McKinney		<input type="checkbox"/>
4	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
4	Electric Strike	1500C - Fail Safe	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
4	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
4	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
4	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
4	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By Automatics Supplier						
4	Auto Operator	SW200i x PULL x 1043mm header	689 / US28 / Painted Aluminum	Besam		<input type="checkbox"/>
4	Wave to Lock Kit	CX-WC16	630 / US32D / Satin Stainless Steel	Camden		<input type="checkbox"/>
4	Emergency Call kit	CX-WEC10K2		Camden		<input type="checkbox"/>
By PWGSC						
4	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.

.....End of Heading.....



Heading#

8

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	0 HR

1 Total Openings								
1	Door#	B-09	Location:	Parking	To	Janitorial Storage B-09	Handing:	RHA

Web Link
Site Verified

By Hardware Supplier

6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CEPT-10	630 / US32D / Satin Stainless Steel	Securitron		<input type="checkbox"/>
1	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
2	Closer	1431-O	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
2	Overhead Stop	6ADJ-336	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
1	Coordinator	2672	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
2	Kick Plate	K1050, 254 x 890 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6130	Black	Pemko		<input type="checkbox"/>
2	Door Sweep	18100NB x 915	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
1	Astragal	303PK x 2150	719 Milled Aluminum	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
2	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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Heading#

9

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 1950 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	1 HR

1 Total Openings								
1	Door#	B-10	Location:	Parking	To	Material Management B-10	Handing:	RHA

Web Link
Site Verified

By Hardware Supplier

6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CEPT-10	630 / US32D / Satin Stainless Steel	Securitron		<input type="checkbox"/>
1	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
2	Closer	1431-O	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
2	Overhead Stop	6ADJ-336	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
1	Coordinator	2672	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
2	Kick Plate	K1050, 254 x 890 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5730	Black	Pemko		<input type="checkbox"/>
2	Door Sweep	18100NB x 915	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
1	Astragal	303PK x 1950	719 Milled Aluminum	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
2	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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Heading# 10

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	1 HR

1 Total Openings								
1	Door#	B-11	Location:	Existing Vestibule B-11	From	Parking Area	Handing:	RHR

Web Link
Site Verified

By Hardware Supplier						
3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Exit Device / Passage Trim	12-8815-J-ETP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Closer	1431-P9	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Overhead Stop	1ADJ-336	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>

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Heading#

11

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	1 HR

2 Total Openings								
1	Door#	B-14A	Location:	F + E Room 2	From	Parking	Handing:	RHRA
1	Door#	B-14B	Location:	F + E Room 2	From	Parking	Handing:	RHRA

Web Link
Site Verified

By Hardware Supplier						
12	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
2	Power Transfer	CEPT-10	630 / US32D / Satin Stainless Steel	Securitron		<input type="checkbox"/>
2	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
2	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
2	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
4	Closer	1431-CPS	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
2	Coordinator	2672	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
4	Mounting Bracket	2601C	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
4	Kick Plate	K1050, 254 x 890 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
2	Sound / Smoke Seal	S773 x 6130	Black	Pemko		<input type="checkbox"/>
4	Door Sweep	18100NB x 915	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
2	Astragal	303PK x 2150	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By Security Supplier						
2	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
2	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
4	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
2	Access Controller	To Suit Building System				<input type="checkbox"/>
2	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
2	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

-----End of Heading-----



Heading#

12

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	B-16	Location:	Bike Storage	From	Parking	Handing:	RHRA

Web Link
Site Verified

By Hardware Supplier

6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CEPT-10	630 / US32D / Satin Stainless Steel	Securitron		<input type="checkbox"/>
1	Electrified Exit Device / Night Latch Trim	12-56-60-NB-MD8606-F-ETP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Exit Device	12-NB-MD8610-F	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
2	Closer	351-CPS	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
2	Kick Plate	K1050, 254 x 890 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6130	Black	Pemko		<input type="checkbox"/>
2	Door Sweep	18100NB x 915	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
1	Astragal	303PK x 2150	719 Milled Aluminum	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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Heading# 13

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	1 1/2 HR

1 Total Openings								
1	Door#	B-19	Location:	Fire Pump Room B-19	From	Vestibule B-19B	Handing:	RHR

Web Link
Site Verified

By Hardware Supplier					
3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	 <input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent	 <input type="checkbox"/>
1	Closer	351-CPS	689 / US28 / Painted Aluminum	Sargent	 <input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko	 <input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko	 <input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	 <input type="checkbox"/>

.....End of Heading.....



Heading#

14

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	1 HR

1 Total Openings								
1	Door#	B-20B	Location:	MEP Room 2	From	Vestibule B-19B	Handing:	RHRA

Web Link
Site Verified

By Hardware Supplier					
6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	<input type="checkbox"/>
1	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood	<input type="checkbox"/>
1	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood	<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
2	Closer	351-CPS	689 / US28 / Painted Aluminum	Sargent	<input type="checkbox"/>
1	Coordinator	2672	628 / US28 / Clear Anodized	Rockwood	<input type="checkbox"/>
2	Mounting Bracket	2601C	628 / US28 / Clear Anodized	Rockwood	<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6130	Black	Pemko	<input type="checkbox"/>
2	Door Sweep	18100NB x 915	628 / US28 / Clear Anodized	Pemko	<input type="checkbox"/>
1	Astragal	303PK x 2150	719 Milled Aluminum	Pemko	<input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

.....End of Heading.....



Heading#

15

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	B-20C	Location:	MEP Room 2	From	Corridor B-04	Handing:	RHR

Web Link
Site Verified

By Hardware Supplier

3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Closer	351-POT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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Heading#

16

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	1 HR

1 Total Openings								
1	Door#	B-21	Location:	BGIS Storage	From	Corridor B-04	Handing:	RHRA

Web Link
Site Verified

By Hardware Supplier

6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CEPT-10	630 / US32D / Satin Stainless Steel	Securitron		<input type="checkbox"/>
1	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
2	Closer	1431-P9	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
2	Overhead Stop	1ADJ-336	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
1	Coordinator	2672	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
2	Mounting Bracket	2601C	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6130	Black	Pemko		<input type="checkbox"/>
2	Door Sweep	18100NB x 915	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
1	Astragal	303PK x 2150	719 Milled Aluminum	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
2	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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Heading#

17

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

3 Total Openings								
1	Door#	B-21A	Location:	Corridor B-04	To	Janitorial B-21A	Handing:	LH
1	Door#	1-47	Location:	Corridor	To	Legal Advisory Filing	Handing:	LH
1	Door#	1-76	Location:	Corridor	To	Cleaning Staff Lounge	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
9	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
3	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
3	Closer	1431-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
3	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
3	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
3	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
By Security Supplier						
3	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
3	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
3	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
3	Access Controller	To Suit Building System				<input type="checkbox"/>
3	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
3	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

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Heading# 18

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	1-07	Location:	Corridor 1-26	To	Fire Panel Room 1-07	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Closer	1431-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....



Heading#

19

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	B-22B	Location:	Commemoration Storage	From	Lobby B-05	Handing:	RHRA

Web Link
Site Verified

By Hardware Supplier

6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CEPT-10	630 / US32D / Satin Stainless Steel	Securitron		<input type="checkbox"/>
1	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
2	Closer	1431-CPS	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Coordinator	2672	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
2	Mounting Bracket	2601C	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6130	Black	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
2	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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Heading# 20

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	3/4 HR

1 Total Openings								
1	Door#	B-24	Location:	Commemoration Storage	To	MEP Room 1	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Closer	351-OTB	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

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Heading# 21

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	1 HR

1 Total Openings								
1	Door#	B-25	Location:	Parking Area	To	Electrical Closet B-25	Handing:	LH

Web Link
Site Verified

By Hardware Supplier					
3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
1	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent	<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood	<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko	<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko	<input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

.....End of Heading.....



Heading#

22

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	1 HR

1 Total Openings								
1	Door#	B-26A	Location:	Lobby B-05	From	Vestibule B-26	Handing:	RHR

Web Link
Site Verified

By Hardware Supplier					
3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	<input type="checkbox"/>
1	Passage Latch Set	8215-LNP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
1	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES	<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood	<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko	<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko	<input type="checkbox"/>
By Automatics Supplier					
1	Auto Operator	SW200i x PULL x 1043mm header	689 / US28 / Painted Aluminum	Besam	<input type="checkbox"/>
2	Activation Column Switch	CM-7536/4	Black	Camden	<input type="checkbox"/>

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.

-----End of Heading-----



Heading#

22b

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	1 1/2 HR

1 Total Openings								
1	Door#	B-26B	Location:	Vestibule B-26	From	Parking	Handing:	RHR

Web Link
Site Verified

By Hardware Supplier

3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>

By Automatics Supplier

1	Auto Operator	SW200i x PUSH x 1043 mm header (prep for closer)	689 / US28 / Painted Aluminum	Besam		<input type="checkbox"/>
1	Activation Column Switch	CM-7536/4	Black	Camden		<input type="checkbox"/>
1	Logic Relay	CX-33		Camden		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.

-----End of Heading-----



Heading# 23

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	3/4 HR

1 Total Openings								
1	Door#	B-28	Location:	Electrical Room B-28	From	Lobby B-05	Handing:	RHR

Web Link
Site Verified

By Hardware Supplier						
3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Closer	1431-CPS	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

-----End of Heading-----



Heading#

24

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	B-29	Location:	Lobby B-05	To	Shower Room B-29	Handing:	LH

Web Link
Site Verified

By Hardware Supplier					
3	Concealed Bearing Hinge	TA314, 114 x 102 x NRP	630 / US32D / Satin Stainless Steel	McKinney	<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
1	Electric Strike	1500C – Fail Safe	630 / US32D / Satin Stainless Steel	HES	<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood	<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko	<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko	<input type="checkbox"/>
By Automatics Supplier					
1	Auto Operator	SW200i x PULL x 1043mm header	689 / US28 / Painted Aluminum	Besam	<input type="checkbox"/>
1	Wave to Lock Kit	CX-WC16	630 / US32D / Satin Stainless Steel	Camden	<input type="checkbox"/>
1	Emergency Call kit	CX-WEC10K2		Camden	<input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.

.....End of Heading.....



Heading#

25

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	3/4 HR

19	Total Openings							
1	Door#	1-02	Location:	Corridor	To	Electrical Room 1-02	Handing:	RH
1	Door#	1-08	Location:	Corridor	To	Electrical Closet 1-08	Handing:	LH
1	Door#	1-13	Location:	Corridor	To	Electrical Closet 1-13	Handing:	LH
1	Door#	1-59	Location:	Corridor	To	Electrical Room 1-59	Handing:	RH
1	Door#	1-79	Location:	Corridor 1-81	To	Electrical Room 1-79	Handing:	LH
1	Door#	2-06	Location:	Corridor	To	Electrical Room 2-06	Handing:	RH
1	Door#	2-31	Location:	Corridor	To	Electrical Closet 2-31	Handing:	LH
1	Door#	2-36	Location:	Corridor	To	Electrical Closet 2-36	Handing:	LH
1	Door#	2-68	Location:	Corridor	To	Electrical Room 2-68	Handing:	LH
1	Door#	3-06	Location:	Corridor 3-35	To	Electrical Room 3-06	Handing:	RH
1	Door#	3-23	Location:	Lockers 3-22	To	Electrical Closet 3-23	Handing:	LH
1	Door#	3-28	Location:	Corridor 3-35	To	Electrical Closet 3-28	Handing:	LH
1	Door#	3-61	Location:	Corridor 3-69	To	Electrical Room 3-61	Handing:	LH
1	Door#	4-06	Location:	Corridor 4-41	To	Electrical Room 4-06	Handing:	RH
1	Door#	4-23	Location:	Lockers 4-22	To	Electrical Closet 4-23	Handing:	LH
1	Door#	4-28	Location:	Corridor 4-41	To	Electrical Closet 4-28	Handing:	LH
1	Door#	5-03	Location:	Corridor 5-30	To	Electrical Room 5-03	Handing:	RH
1	Door#	5-11	Location:	Lockers 5-29	To	Electrical Closet 5-11	Handing:	LH
1	Door#	5-32	Location:	Corridor 5-30	To	Electrical Closet 5-32	Handing:	LH

Web Link
Site Verified

By Hardware Supplier					
57	Concealed Bearing Hinge	TA314, 114 x 102 x NRP	630 / US32D / Satin Stainless Steel	McKinney	<input type="checkbox"/>
19	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
19	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent	<input type="checkbox"/>
19	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood	<input type="checkbox"/>
19	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	<input type="checkbox"/>
19	Sound / Smoke Seal	S773 x 5265	Black	Pemko	<input type="checkbox"/>
19	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko	<input type="checkbox"/>
By PWGSC					
19	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

End of Heading



Heading#

26

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	1-01	Location:	Corridor	To	Data Room 1-01	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Closer	351-OTB	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
By Security Supplier						
1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

End of Heading



Heading# 27

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	1-04	Location:	Corridor	To	Security Server Room 1-04	Handing:	LH

Web Link
Site Verified

By Hardware Supplier

3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset w/ Deadbolt	31-60-8251-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	1006-CAS	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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.....End of Heading.....

Heading# 28

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	52
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	1-86	Location:	Security Operations Centre	To	SOC Room 1-86	Handing:	LH

Web Link
Site Verified

By Hardware Supplier					
3	Heavy Weight Concealed Bearing Hinge	TA786 114 x 101x NRP	652 / US26D / Satin Chrome	McKinney	 <input type="checkbox"/>
1	Office Lockset	60-8205-LNP	630 / US32D / Satin Stainless Steel	Sargent	 <input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood	 <input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	 <input type="checkbox"/>
1	STC Seals	By STC Door Manufacturer			 <input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	 <input type="checkbox"/>

.....End of Heading.....



Heading#

29

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	SCWD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	1-04A	Location:	Corridor	To	First Aid Room 1-04A	Handing:	LH

Web Link
Site Verified

By Hardware Supplier

3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Closer	1431-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	434APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-W	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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-----End of Heading-----



Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	SCWD	Frame Material:	HMF	Fire Rating	None

4 Total Openings								
1	Door#	1-12	Location:	Corridor	To	Gender Neutral BF W/R 1-12	Handing:	RH
1	Door#	3-27	Location:	Corridor 3-35	To	Gender Neutral BF W/R 3-27	Handing:	RH
1	Door#	4-27	Location:	Corridor 4-41	To	Gender Neutral BF W/R 4-27	Handing:	RH
1	Door#	5-34	Location:	Corridor 5-30	To	Gender Neutral BF W/R 5-34	Handing:	RH

Web Link

Site Verified

By Hardware Supplier						
12	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
4	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
4	Electric Strike	1500C – Fail Safe	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
4	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
4	Overhead Stop	1ADJ-336	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
4	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
4	Auto Door Bottom	434APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By Automatics Supplier						
4	Auto Operator	SW200i x PULL x 1043mm header	689 / US28 / Painted Aluminum	Besam		<input type="checkbox"/>
4	Wave to Lock Kit	CX-WC16	630 / US32D / Satin Stainless Steel	Camden		<input type="checkbox"/>
4	Emergency Call kit	CX-WEC10K2		Camden		<input type="checkbox"/>
By PWGSC						
4	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.

.....End of Heading.....



Heading# 31

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	51
Door Material:	SCWD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	1-18	Location:	Corridor 1-23	To	Video Production 1-18	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
3	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CDL	628 / US28 / Clear Anodized	Command Access		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Door Stop	RM850	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	STC Seals	By STC Door Manufacturer				<input type="checkbox"/>
By Security Supplier						
1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-W	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....

Heading# 32

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2755 x 44	STC Rating	51
Door Material:	SCWD	Frame Material:	HMF	Fire Rating	None

4 Total Openings							
1	Door#	5-04	Location:	Corridor 5-30	To	Minister's Office	Handing: RH
1	Door#	5-25A	Location:	Open Workspace 5-14	To	Deputy Minister's Office	Handing: RH
1	Door#	5-40A	Location:	Corridor 5-22	To	Large Meeting Room 5-40	Handing: LH
1	Door#	5-40B	Location:	Corridor 5-22	To	Large Meeting Room 5-40	Handing: RH

Web Link
Site Verified

By Hardware Supplier					
12	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	<input type="checkbox"/>
4	Office Lockset	60-8205-LNP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
4	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood	<input type="checkbox"/>
4	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	<input type="checkbox"/>
4	Gasketing	By STC Door Manufacturer			<input type="checkbox"/>
By PWGSC					
4	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

.....End of Heading.....

Heading#

32b

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2755 x 44	STC Rating	None
Door Material:	SCWD	Frame Material:	ALF	Fire Rating	None

1	Total Openings							
1	Door#	1-18A	Location:	Video Production 1-18	To	Video Studio 1-18A	Handing:	RH

Web Link
Site Verified

By Hardware Supplier							
1	Continuous Hinge	FMSLFHD x 2692	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>	
1	Office Lockset	60-8205-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>	
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>	
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>	
1	Gasketing	By Aluminum frame Supplier				<input type="checkbox"/>	
1	Auto Door Bottom	434APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>	
1	Threshold	271A x 290APKSTOP x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>	
By PWGSC							
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>	

.....End of Heading.....

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2755 x 44	STC Rating	None
Door Material:	SCWD	Frame Material:	ALF	Fire Rating	None

164	Total Openings							
1	Door#	1-19	Location:	Corridor	To	Focus Room 1-19	Handing:	RH
1	Door#	1-21	Location:	Corridor	To	Focus Room 1-21	Handing:	RH
1	Door#	1-23A	Location:	Corridor	To	Focus Room 1-23A	Handing:	RH
1	Door#	1-23B	Location:	Corridor	To	Focus Room 1-23B	Handing:	RH
1	Door#	1-23C	Location:	Corridor	To	Focus Room 1-23C	Handing:	RH
1	Door#	1-23D	Location:	Corridor	To	Reflection 1-23D	Handing:	RH
1	Door#	1-29B	Location:	Corridor	To	Large Meeting Room 1-29	Handing:	RH
1	Door#	1-36	Location:	Business Centre 1-42	To	Focus Room 1-36	Handing:	RH
1	Door#	1-38	Location:	Business Centre 1-42	To	Focus Room 1-38	Handing:	RH
1	Door#	1-39	Location:	Business Centre 1-42	To	Phone Booth 1-39	Handing:	RH
1	Door#	1-40	Location:	Business Centre 1-42	To	Work Room 1-40	Handing:	LH
1	Door#	1-46	Location:	Open Workspace 1-35	To	Medium Meeting Room 1-46	Handing:	RH
1	Door#	1-48	Location:	Corridor	To	Focus Room 1-48	Handing:	LH
1	Door#	1-50	Location:	Corridor	To	Focus Room 1-50	Handing:	RH
1	Door#	1-50A	Location:	Corridor	To	Focus Room 1-50A	Handing:	LH
1	Door#	1-50B	Location:	Corridor	To	Focus Room 1-50B	Handing:	RH
1	Door#	1-52	Location:	Legal Advisory Open W/S 1-54	To	Focus Room 1-52	Handing:	LH
1	Door#	1-52A	Location:	Corridor	To	Focus Room 1-52A	Handing:	LH
1	Door#	1-52B	Location:	Corridor	To	Focus Room 1-52B	Handing:	LH
1	Door#	1-52C	Location:	Corridor	To	Focus Room 1-52C	Handing:	LH
1	Door#	1-52D	Location:	Corridor	To	Focus Room 1-52D	Handing:	LH
1	Door#	1-89	Location:	Corridor 1-87	To	Work Room 1-89	Handing:	LH
1	Door#	1-90	Location:	Corridor 1-87	To	Work Room 1-90	Handing:	RH
1	Door#	1-91	Location:	Corridor	To	Focus Room 1-91	Handing:	RH
1	Door#	1-91A	Location:	Corridor	To	Focus Room 1-91A	Handing:	RH
1	Door#	1-92	Location:	Corridor	To	Focus Room 1-92	Handing:	LH
1	Door#	1-97	Location:	Corridor	To	Phone Booth 1-97	Handing:	RH
1	Door#	1-101	Location:	Teaming Area 1-100	To	Workroom 1-101	Handing:	LH
1	Door#	2-08	Location:	Corridor 2-53	To	Medium Meeting Room 2-08	Handing:	RH
1	Door#	2-09	Location:	Corridor 2-53	To	Medium Meeting Room 2-09	Handing:	LH

1	Door#	2-10	Location:	Corridor	To	Work Room 2-10	Handing:	LH
1	Door#	2-11	Location:	Corridor	To	Work Room 2-11	Handing:	RH
1	Door#	2-12A	Location:	Teaming Area 2-12	To	Work Room 2-12A	Handing:	LH
1	Door#	2-14A	Location:	Corridor	To	Large Meeting Room 2-14	Handing:	RH
1	Door#	2-14B	Location:	Corridor	To	Large Meeting Room 2-14	Handing:	LH
1	Door#	2-16A	Location:	Collaborative Space 2-16	To	Focus Room 2-16A	Handing:	RH
1	Door#	2-16B	Location:	Collaborative Space 2-16	To	Focus Room 2-16B	Handing:	LH
1	Door#	2-18	Location:	Collaborative Space 2-16	To	Focus Room 2-18	Handing:	RH
1	Door#	2-19	Location:	Collaborative Space 2-16	To	Focus Room 2-19	Handing:	LH
1	Door#	2-20	Location:	Collaborative Space 2-16	To	Focus Room 2-20	Handing:	LH
1	Door#	2-21	Location:	Collaborative Space 2-16	To	Focus Room 2-21	Handing:	LH
1	Door#	2-22	Location:	Collaborative Space 2-16	To	Focus Room 2-22	Handing:	LH
1	Door#	2-23	Location:	Open Workspace 2-49	To	Focus Room 2-22A	Handing:	RH
1	Door#	2-24	Location:	Open Workspace 2-49	To	Focus Room 2-24	Handing:	RH
1	Door#	2-25	Location:	Open Workspace 2-49	To	Focus Room 2-25	Handing:	RH
1	Door#	2-26	Location:	Open Workspace 2-49	To	Focus Room 2-26	Handing:	RH
1	Door#	2-27	Location:	Open Workspace 2-49	To	Reflection Room 2-27	Handing:	LH
1	Door#	2-30	Location:	Open Workspace 2-49	To	Phone Booth 2-30	Handing:	LH
1	Door#	2-30A	Location:	Open Workspace 2-49	To	Phone Booth 2-30A	Handing:	RH
1	Door#	2-30B	Location:	File Area 2-01	To	Reflection Room 2-30B	Handing:	RH
1	Door#	2-38	Location:	Open Workspace 2-49	To	Phone Booth 2-38	Handing:	LH
1	Door#	2-41	Location:	Collaborative Space 2-16	To	Projection Room 2-41	Handing:	LH
1	Door#	2-42	Location:	Collaborative Space 2-16	To	Medium Meeting Room 2-42	Handing:	RH
1	Door#	2-45	Location:	Corridor	To	Phone Booth 2-45	Handing:	RH
1	Door#	2-47	Location:	Corridor	To	Focus Room 2-47	Handing:	RH
1	Door#	2-50	Location:	Corridor	To	Reflection Room 2-50	Handing:	LH
1	Door#	2-51	Location:	Open Workspace 2-49	To	Phone Booth 2-51	Handing:	RH
1	Door#	2-52	Location:	Open Workspace 2-49	To	Focus Room 2-52	Handing:	LH
1	Door#	2-52B	Location:	Open Workspace 2-49	To	Focus Room 2-52B	Handing:	RH
1	Door#	2-54A	Location:	Corridor	To	Large Meeting Room 2-54	Handing:	LH
1	Door#	2-54B	Location:	Corridor	To	Large Meeting Room 2-54	Handing:	RH
1	Door#	2-55A	Location:	Corridor	To	Large Meeting Room 2-55	Handing:	LH
1	Door#	2-55B	Location:	Corridor	To	Large Meeting Room 2-55	Handing:	RH
1	Door#	2-56	Location:	Open Workspace 2-77	To	Work Room 2-56	Handing:	LH
1	Door#	2-57	Location:	Open Workspace 2-77	To	Focus Room 2-57	Handing:	LH
1	Door#	2-58	Location:	Open Workspace 2-77	To	Phone Booth 2-58	Handing:	LH
1	Door#	2-63A	Location:	Open Workspace 2-77	To	Focus Room 2-63A	Handing:	LH
1	Door#	2-63B	Location:	Open Workspace 2-77	To	Focus Room 2-63B	Handing:	RH
1	Door#	2-63C	Location:	Corridor	To	Reflection Room 2-63C	Handing:	LH
1	Door#	2-65	Location:	Corridor	To	Phone Booth 2-65	Handing:	RH

1	Door#	2-71	Location:	Corridor	To	Work Room 2-71	Handing:	LH
1	Door#	2-73	Location:	Open Collaborative Space 2-72	To	Project Room 2-73	Handing:	RH
1	Door#	2-74	Location:	Corridor	To	Phone Booth 2-74	Handing:	LH
1	Door#	2-76	Location:	Huddle 2-90	To	Focus Room 2-76	Handing:	LH
1	Door#	2-76A	Location:	Huddle 2-90	To	Focus Room 2-76A	Handing:	LH
1	Door#	2-78	Location:	BPA Open Workspace 2-81	To	Focus Room 2-78	Handing:	LH
1	Door#	2-79	Location:	BPA Open Workspace 2-81	To	Phone Booth 2-79	Handing:	LH
1	Door#	2-82	Location:	Corridor	To	Medium Meeting Room 2-82	Handing:	RH
1	Door#	2-83	Location:	Corridor	To	Phone Booth 2-83	Handing:	RH
1	Door#	2-84	Location:	Corridor	To	Phone Booth 2-84	Handing:	LH
1	Door#	2-85	Location:	BPA Open Workspace 2-81	To	Focus Room 2-85	Handing:	LH
1	Door#	2-86B	Location:	Open Collaborative Space 2-72	To	Medium Meeting Room 2-86	Handing:	RH
1	Door#	2-87A	Location:	BPA Open Workspace 2-81	To	Focus Room 2-87A	Handing:	LH
1	Door#	2-87B	Location:	BPA Open Workspace 2-81	To	Focus Room 2-87B	Handing:	LH
1	Door#	2-87C	Location:	BPA Open Workspace 2-81	To	Focus Room 2-87C	Handing:	LH
1	Door#	2-87D	Location:	BPA Open Workspace 2-81	To	Phone Booth 2-87D	Handing:	RH
1	Door#	3-02	Location:	Business Centre 3-01	To	Focus Room 3-02	Handing:	RH
1	Door#	3-08	Location:	Corridor 3-43	To	Medium Meeting Room 3-08	Handing:	RH
1	Door#	3-09	Location:	Corridor 3-43	To	Medium Meeting Room 3-09	Handing:	LH
1	Door#	3-10	Location:	Corridor 3-43	To	Work Room 3-10	Handing:	LH
1	Door#	3-14	Location:	Open Workspace 3-13	To	Work Room 3-14	Handing:	LH
1	Door#	3-15	Location:	Open Workspace 3-34	To	Focus Room 3-15	Handing:	RH
1	Door#	3-19	Location:	Open Workspace 3-34	To	Focus Room 3-19	Handing:	LH
1	Door#	3-20	Location:	Open Workspace 3-34	To	Focus Room 3-20	Handing:	LH
1	Door#	3-21	Location:	Open Workspace 3-34	To	Phone Booth 3-21	Handing:	RH
1	Door#	3-22A	Location:	Open Workspace 3-34	To	Focus Room 3-22A	Handing:	LH
1	Door#	3-22B	Location:	Phone Booth 3-22B	From	Open Workspace 3-34	Handing:	LHR
1	Door#	3-30	Location:	Open Workspace 3-34	To	Project Room 3-30	Handing:	LH
1	Door#	3-31	Location:	Open Workspace 3-34	To	Project Room 3-31	Handing:	RH
1	Door#	3-32	Location:	Open Workspace 3-34	To	Reflection Room 3-32	Handing:	LH
1	Door#	3-33	Location:	Open Workspace 3-34	To	Phone Booth 3-33	Handing:	RH
1	Door#	3-36	Location:	Open Workspace 3-34	To	Focus Room 3-36	Handing:	RH
1	Door#	3-37	Location:	Open Workspace 3-34	To	Focus Room 3-37	Handing:	LH
1	Door#	3-41	Location:	Open Workspace 3-34	To	Focus Room 3-41	Handing:	LH
1	Door#	3-42	Location:	Open Workspace 3-34	To	Phone Booth 3-42	Handing:	LH
1	Door#	3-44A	Location:	Corridor 3-43	To	Large Meeting Room 3-44	Handing:	LH
1	Door#	3-44B	Location:	Corridor 3-43	To	Large Meeting Room 3-44	Handing:	RH
1	Door#	3-45	Location:	Corridor 3-43	To	ITIM & ADMIN APP> MGMT LAB	Handing:	LH

1	Door#	3-47	Location:	Corridor 3-43	To	Medium Meeting Room 3-47	Handing:	LH
1	Door#	3-48	Location:	Corridor 3-43	To	Focus Room 3-48	Handing:	LH
1	Door#	3-49	Location:	Corridor 3-43	To	Focus Room 3-49	Handing:	RH
1	Door#	3-50	Location:	Open Workspace 3-51	To	Focus Room 3-50	Handing:	RH
1	Door#	3-53	Location:	Open Workspace 3-51	To	Focus Room 3-53	Handing:	RH
1	Door#	3-53A	Location:	Open Workspace 3-51	To	Focus Room 3-53A	Handing:	LH
1	Door#	3-58	Location:	Corridor 3-43	To	Phone Booth 3-58	Handing:	LH
1	Door#	3-65	Location:	Open Workspace 3-51	To	Medium Meeting Room 3-65	Handing:	LH
1	Door#	3-66	Location:	Open Workspace 3-51	To	Project Room 3-66	Handing:	LH
1	Door#	3-67	Location:	Open Workspace 3-51	To	Focus Room 3-67	Handing:	RH
1	Door#	3-68	Location:	Open Workspace 3-51	To	Focus Room 3-68	Handing:	LH
1	Door#	3-71	Location:	Open Workspace 3-51	To	Focus Room 3-71	Handing:	RH
1	Door#	3-71A	Location:	Corridor 3-69	To	Focus Room 3-71A	Handing:	RH
1	Door#	3-71B	Location:	Corridor 3-69	To	Focus Room 3-71B	Handing:	LH
1	Door#	3-72	Location:	Open Workspace 3-51	To	Project Room 3-72	Handing:	LH
1	Door#	3-73	Location:	Open Workspace 3-51	To	Medium Meeting Room 3-73	Handing:	RH
1	Door#	3-74	Location:	Open Workspace 3-51	To	Phone Booth 3-74	Handing:	LH
1	Door#	3-75	Location:	Open Workspace 3-51	To	Reflection Room 3-75	Handing:	LH
1	Door#	3-76	Location:	Open Workspace 3-51	To	Focus Room 3-76	Handing:	RH
1	Door#	3-80	Location:	Open Workspace 3-13	To	Project Room 3-80	Handing:	RH
1	Door#	4-08	Location:	Corridor 4-34	To	Medium Meeting Room 4-08	Handing:	RH
1	Door#	4-09	Location:	Corridor 4-34	To	Medium Meeting Room 4-09	Handing:	LH
1	Door#	4-10	Location:	Corridor 4-34	To	Work Room 4-10	Handing:	LH
1	Door#	4-14	Location:	Open Workspace 4-12	To	Work Room 4-14	Handing:	RH
1	Door#	4-15	Location:	Reflection Room 4-15	From	Open Workspace 4-21A	Handing:	RHR
1	Door#	4-16	Location:	Open Workspace 4-21A	To	Focus Room 4-16	Handing:	LH
1	Door#	4-17	Location:	Open Workspace 4-21A	To	Phone Booth 4-17	Handing:	LH
1	Door#	4-18	Location:	Open Workspace 4-12	To	Focus Room 4-18	Handing:	RH
1	Door#	4-19	Location:	Open Workspace 4-12	To	Phone Booth 4-19	Handing:	RH
1	Door#	4-20	Location:	Open Workspace 4-12	To	Project Room 4-20	Handing:	RH
1	Door#	4-31	Location:	Open Workspace 430	To	Focus Room 4-31	Handing:	LH
1	Door#	4-32	Location:	Open Workspace 4-30	To	Focus Room 4-32	Handing:	LH
1	Door#	4-33	Location:	Open Workspace 4-30	To	Phone Booth 4-33	Handing:	LH
1	Door#	4-36A	Location:	Corridor 4-34	To	Large Meeting Room 4-36	Handing:	LH
1	Door#	4-36B	Location:	Corridor 4-34	To	Large Meeting Room 4-36	Handing:	RH
1	Door#	4-38	Location:	Corridor 4-34	To	Phone Booth 4-38	Handing:	LH
1	Door#	4-39	Location:	Corridor 4-34	To	Reflection Room 4-39	Handing:	LH
1	Door#	4-40	Location:	Corridor 4-34	To	Reflection Room 4-40	Handing:	LH
1	Door#	5-04D	Location:	Kitchenette/Lounge	To	Work Room 5-04D	Handing:	RH
1	Door#	5-06	Location:	FG#6 Cabinet Bus. Unit Workspace	To	Focus Room 5-06	Handing:	LH

1	Door#	5-07	Location:	FG#6 Cabinet Bus. Unit Workspace	To	Focus Room 5-07	Handing:	RH
1	Door#	5-08	Location:	FG#6 Cabinet Bus. Unit Workspace	To	Phone Booth 5-08	Handing:	RH
1	Door#	5-10	Location:	Corridor 5-22	To	Medium Meeting Room 5-10	Handing:	RH
1	Door#	5-12	Location:	Corridor 5-22	To	Medium Meeting Room 5-12	Handing:	LH
1	Door#	5-16	Location:	Open Workspace 5-14	To	Focus Room 5-16	Handing:	RH
1	Door#	5-17	Location:	Open Workspace 5-14	To	Work Room 5-17	Handing:	LH
1	Door#	5-18	Location:	Open Workspace 5-14	To	Work Room 5-18	Handing:	RH
1	Door#	5-19	Location:	Open Workspace 5-14	To	Work Room 5-19	Handing:	RH
1	Door#	5-20	Location:	Open Workspace 5-14	To	Enclosed Room 5-20	Handing:	LH
1	Door#	5-21	Location:	Open Workspace 5-14	To	Reflection Room 5-21	Handing:	LH
1	Door#	5-21A	Location:	Open Workspace 5-14	To	Phone Booth 5-21A	Handing:	LH
1	Door#	5-25	Location:	Open Workspace 5-14	To	Focus Room 5-25	Handing:	LH
1	Door#	5-26	Location:	Open Workspace 5-14	To	Focus Room 5-26	Handing:	LH
1	Door#	5-37	Location:	Corridor 5-22	To	Reflection Room 5-37	Handing:	LH
1	Door#	5-38	Location:	Corridor 5-22	To	Phone Booth 5-38	Handing:	LH
1	Door#	5-39	Location:	Corridor 5-22	To	Reflection Room 5-39	Handing:	LH

Web Link
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By Hardware Supplier					
164	Continuous Hinge	FMSLFHD x 2692	628 / US28 / Clear Anodized	Pemko	<input type="checkbox"/>
164	Office Lockset	60-8205-LNP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
164	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	<input type="checkbox"/>
164	Gasketing	By Aluminum Frame Supplier			<input type="checkbox"/>
164	Auto Door Bottom	434APKL x 965	719 Milled Aluminum	Pemko	<input type="checkbox"/>
By PWGSC					
164	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

.....End of Heading.....



Heading#

33b

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2755 x 44	STC Rating	None
Door Material:	SCWD	Frame Material:	ALF	Fire Rating	None

1 Total Openings								
1	Door#	2-86A	Location:	BPA Open Workspace 2-81	To	Medium Meeting Room 2-86	Handing:	LH

Web Link
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By Hardware Supplier

1	Continuous Hinge	FMSLFHD x 2692	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Gasketing	By Aluminum frame Supplier				<input type="checkbox"/>
1	Auto Door Bottom	434APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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.....End of Heading.....



Heading#

34

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2755 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	3-55	Location:	Corridor 3-63	To	Lactation Room 3-55	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
4	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset w/ Indicator	V20-60-8251-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	1600CS-LMS	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6475	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By Security Supplier						
1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....

Heading# 35

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 12	STC Rating	None
Door Material:	FGD	Frame Material:	ALF	Fire Rating	None

1 Total Openings								
1	Door#	1-20	Location:	Kitchenette/Lounge 1-20	From	Corridor	Handing:	LHR

Web Link
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By Hardware Supplier					
2	Hydraulic Hinge	835E11N	628 / US28 / Clear Anodized	Colcom	<input type="checkbox"/>
1	Pull Handle Set	RM-2230 x 1829 O.A. x MTG 5HD	630 / US32D / Satin Stainless Steel	Rockwood	<input type="checkbox"/>
1	Frame Stop	CBH 191	628 / US28 / Clear Anodized	CBH	<input type="checkbox"/>
1	Door Stop	RM850	630 / US32D / Satin Stainless Steel	Rockwood	<input type="checkbox"/>
1	Gasketing	By Aluminum Door Supplier			<input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

.....End of Heading.....



Heading#

36

Opening Information					
Opening Type:	Single	Opening Size:	1100 x 2438 x 12	STC Rating	None
Door Material:	FGD	Frame Material:	ALF	Fire Rating	None

2 Total Openings								
1	Door#	1-33A	Location:	Vestibule 1-33	From	Exterior	Handing:	LHR
1	Door#	1-33C	Location:	Vestibule 1-33	From	Exterior	Handing:	LHR

Web Link
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By Hardware Supplier

2	Door Top Rail	DRT-4AC-T x ADO x DC	630 / US32D / Satin Stainless Steel	ASSA		<input type="checkbox"/>
2	Bottom Rail / Pivot	DRT-4AC-BP300	630 / US32D / Satin Stainless Steel	ASSA		<input type="checkbox"/>
2	Exit Device	PDU8000-3 x 02 x ESK-SGL-LBM (fail secure)	630 / US32D / Satin Stainless Steel	ASSA		<input type="checkbox"/>
2	Door Stop	RM856	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
2	Gasketing	By Aluminum Frame Supplier				<input type="checkbox"/>

By Automatics Supplier

2	Auto Operator	OAL-100-CH-R/L x PUSH x 1100mm header	630 / US32D / Satin Stainless Steel	Omega		<input type="checkbox"/>
4	Activation Column Switch	CM-7536/4	Black	Camden		<input type="checkbox"/>
2	Logic Relay	CX-33		Camden		<input type="checkbox"/>

By Security Supplier

2	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
2	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
2	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
2	Access Controller	To Suit Building System				<input type="checkbox"/>
2	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

2	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.

.....End of Heading.....



Heading# 36b

Opening Information					
Opening Type:	Single	Opening Size:	1100 x 2438 x 12	STC Rating	None
Door Material:	FGD	Frame Material:	ALF	Fire Rating	None

Total Openings								
+	Door#	1-82C	Location:	Vestibule 1-82	From	Exterior	Handing:	LHR

Web Link
Site Verified

By Hardware Supplier					
+	Door Top Rail	DRT-4AC-T-x-ADO-x-DC	630 / US32D / Satin Stainless Steel	ASSA	
+	Bottom Rail / Pivot	DRT-4AC-BP300	630 / US32D / Satin Stainless Steel	ASSA	
+	Exit Device	PDU8000-3 x 02 x ESK-SGL-LBM (fail secure)	630 / US32D / Satin Stainless Steel	ASSA	
+	Door Stop	RM856	630 / US32D / Satin Stainless Steel	Rockwood	
+	Gasketing	By Aluminum Frame Supplier			
By Automatics Supplier					
+	Auto Operator	OAL-100-CH-R/L x PUSH x 1100mm header	630 / US32D / Satin Stainless Steel	Omega	
2	Activation Column Switch	CM-7536/4	Black	Camden	
+	Logic Relay	CX-33		Camden	
By Security Supplier					
+	Intercom	To Suit Building System	Black		
+	Rex Sensor	XMS	White	Securitron	
+	Door Contact	DPS-M	White	Securitron	
By PWGSC					
+	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.

.....End of Heading.....



Heading# 37

Opening Information				
Opening Type:	Single	Opening Size:	1100 x 2438 x 12	STC Rating None
Door Material:	FGD	Frame Material:	ALF	Fire Rating None

3	Total Openings							
1	Door#	1-33B	Location:	Corridor 1-26	From	Vestibule 1-33	Handing:	LHR
1	Door#	1-33D	Location:	Corridor 1-26	From	Vestibule 1-33	Handing:	LHR
1	Door#	1-82B	Location:	Corridor 1-81	From	Vestibule 1-82	Handing:	LHR

Web Link
Site Verified

By Hardware Supplier					
3	Door Top Rail	DRT-4AC-T x ADO	630 / US32D / Satin Stainless Steel	ASSA	<input type="checkbox"/>
3	Bottom Rail / Pivot	DRT-4AC-BP300	630 / US32D / Satin Stainless Steel	ASSA	<input type="checkbox"/>
3	Exit Device	PDU8000-3 x 02 x ESK-SGL-LBM (fail secure)	630 / US32D / Satin Stainless Steel	ASSA	<input type="checkbox"/>
3	Key Switch	CM-1200-7212	630 / US32D / Satin Stainless Steel	Camden	<input type="checkbox"/>
3	Mortise Cylinder	60-42	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>
3	Door Stop	RM856	630 / US32D / Satin Stainless Steel	Rockwood	<input type="checkbox"/>
3	Gasketing	By Aluminum Frame Supplier			<input type="checkbox"/>
By Automatics Supplier					
3	Auto Operator	CH-R/L x PUSH x 1100mm header	630 / US32D / Satin Stainless Steel	Omega	<input type="checkbox"/>
6	Activation Column Switch	CM-7536/4	Black	Camden	<input type="checkbox"/>
3	Logic Relay	CX-33		Camden	<input type="checkbox"/>
By Security Supplier					
3	Rex Sensor	XMS	White	Securitron	<input type="checkbox"/>
3	Door Contact	DPS-M	White	Securitron	<input type="checkbox"/>
By PWGSC					
3	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Key switch to activate / deactivate exterior activation column switch for auto operator.

.....End of Heading.....



Heading# 38

Opening Information					
Opening Type:	Revolving	Opening Size:	See Architectural Detail	STC Rating	None
Door Material:	FGD	Frame Material:	ALF	Fire Rating	None

2	Total Openings							
1	Door#	1-33E	Location:	Vestibule	From	Exterior	Handing:	Revolving
1	Door#	1-82A	Location:	Vestibule 1-82	From	Exterior	Handing:	Revolving

** Revolving Door and Components by Revolving Door Manufacturer.

.....End of Heading.....



Heading#

39

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 12	STC Rating	None
Door Material:	FGD	Frame Material:	ALF	Fire Rating	None

5	Total Openings							
1	Door#	1-35B	Location:	Open Workspace 1-35	From	Corridor	Handing:	RHR
1	Door#	1-54B	Location:	Open Workspace 1-35	To	Business Centre	Handing:	RH
1	Door#	1-87	Location:	Corridor 1-87	From	Atrium 1-96	Handing:	RHR
1	Door#	2-80	Location:	BPA HD Filing 2-80	From	Corridor	Handing:	LHR
1	Door#	2-81	Location:	BPA Open Workspace 2-81	From	Corridor	Handing:	LHR

Web Link
Site Verified

By Hardware Supplier					
10	Hydraulic Hinge	835E11N	628 / US28 / Clear Anodized	Colcom	Web Link <input type="checkbox"/>
5	Storeroom Lockset Patch	CLH-STOR-BC x 60-8205-LNP	630 / US32D / Satin Stainless Steel	ASSA	Web Link <input type="checkbox"/>
5	Electric Strike	1500C-LMS	630 / US32D / Satin Stainless Steel	HES	Web Link <input type="checkbox"/>
5	Frame Stop	CBH 191	628 / US28 / Clear Anodized	CBH	Web Link <input type="checkbox"/>
5	Door Stop	RM850	630 / US32D / Satin Stainless Steel	Rockwood	Web Link <input type="checkbox"/>
5	Gasketing	By Aluminum Door Supplier			Web Link <input type="checkbox"/>
By Security Supplier					
5	Card Reader	To Suit Building System	Black		Web Link <input type="checkbox"/>
5	Rex Sensor	XMS	White	Securiton	Web Link <input type="checkbox"/>
5	Door Contact	MSS-1G	Black	Securiton	Web Link <input type="checkbox"/>
5	Access Controller	To Suit Building System			Web Link <input type="checkbox"/>
5	Power Supply	To Suit Building System – Located in Nearest IT Closet			Web Link <input type="checkbox"/>
By PWGSC					
5	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	Web Link <input type="checkbox"/>

-----End of Heading-----



Heading# 40

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 12	STC Rating	None
Door Material:	FGD	Frame Material:	ALF	Fire Rating	None

1 Total Openings								
1	Door#	1-35	Location:	Open Workspace 1-35	From	Corridor 1-26	Handing:	LHR

Web Link
Site Verified

By Hardware Supplier						
2	Hydraulic Hinge	835E11N	628 / US28 / Clear Anodized	Colcom		<input type="checkbox"/>
1	Exit Device	PDU8000-3 x 02 x ESK-SGL-LBM (fail secure)	630 / US32D / Satin Stainless Steel	ASSA		<input type="checkbox"/>
1	Door Stop	RM850	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Gasketing	By Aluminum Door Supplier				<input type="checkbox"/>
By Security Supplier						
+	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
+	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
+	Door Contact	MSS-1G	Black	Securitron		<input type="checkbox"/>
+	Access Controller	To Suit Building System				<input type="checkbox"/>
+	Power Supply	To Suit Building System — Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....



Heading#

41

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	52
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	1-49	Location:	Corridor	To	GCSI Room 1-49	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
3	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CDL	628 / US28 / Clear Anodized	Command Access		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	STC Seals	By STC Door manufacturer				<input type="checkbox"/>
By Security Supplier						
1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....



Heading#

42

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	1-54A	Location:	Legal Advisory Open W/S 1-54	To	Corridor	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Exit Device / Night Latch Trim	LD-60-8806-J-ETP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	9400	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Closer	1431-POT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By Security Supplier						
1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....



Heading#

43

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	1-57	Location:	Corridor	To	BGIS Office 1-57	Handing:	RH

Web Link
Site Verified

By Hardware Supplier

3	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CDL	628 / US28 / Clear Anodized	Command Access		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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-----End of Heading-----



Heading#

44

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	0 HR

8	Total Openings							
1	Door#	1-58	Location:	Corridor	To	Janitor Room 1-58	Handing:	RH
1	Door#	1-73	Location:	Corridor 1-65	To	Janitor Room 1-73	Handing:	RH
1	Door#	2-34	Location:	Corridor	To	Janitor Room 2-34	Handing:	RH
1	Door#	2-60	Location:	Corridor	To	Janitor Room 2-60	Handing:	LH
1	Door#	3-26	Location:	Corridor 3-35	To	Janitor Room 3-26	Handing:	RH
1	Door#	3-60	Location:	Corridor 3-63	To	Janitor Room 3-60	Handing:	LH
1	Door#	4-26	Location:	Corridor 4-41	To	Janitor Room 4-26	Handing:	RH
1	Door#	5-35	Location:	Corridor 5-30	To	Janitor Room 5-35	Handing:	RH

Web Link
Site Verified

By Hardware Supplier							
24	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>	
8	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>	
8	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>	
8	Closer	1431-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>	
8	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>	
8	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>	
8	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>	
8	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>	
By Security Supplier							
8	Card Reader	To Suit Building System	Black			<input type="checkbox"/>	
8	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>	
8	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>	
8	Access Controller	To Suit Building System				<input type="checkbox"/>	
8	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>	
By PWGSC							
8	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>	

.....End of Heading.....



Heading#

45

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

8 Total Openings								
1	Door#	1-60	Location:	Loading Dock 1-62	To	Security 1-60	Handing:	LH
1	Door#	1-78	Location:	Corridor 1-81	To	Data Room	Handing:	RH
1	Door#	2-04	Location:	Corridor	To	Data Room 2-04	Handing:	LH
1	Door#	2-67	Location:	Corridor	To	Data Room 2-67	Handing:	RH
1	Door#	3-04	Location:	Corridor 3-35	To	Data Room 3-04	Handing:	LH
1	Door#	3-62	Location:	Corridor 3-63	To	Data Room 3-62	Handing:	LH
1	Door#	4-04	Location:	Corridor 4-41	To	Data Room 4-04	Handing:	LH
1	Door#	5-02	Location:	Corridor 5-30	To	Data Room 5-02	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
24	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
8	Power Transfer	CDL	628 / US28 / Clear Anodized	Command Access		<input type="checkbox"/>
8	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
8	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
8	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
8	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
8	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By Security Supplier						
8	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
8	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
8	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
8	Access Controller	To Suit Building System				<input type="checkbox"/>
8	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
8	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....



Heading#

46

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	0 HR

1 Total Openings								
1	Door#	1-61	Location:	Loading Dock 1-62	To	Stores Room 1-61	Handing:	RH

Web Link
Site Verified

By Hardware Supplier

3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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.....End of Heading.....



Heading#

47

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	52
Door Material:	HMD	Frame Material:	HMF	Fire Rating	0 HR

1 Total Openings								
1	Door#	1-62	Location:	Corridor 1-26	To	Loading Dock 1-62	Handing:	RHA

Web Link
Site Verified

By Hardware Supplier

6	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CDL	628 / US28 / Clear Anodized	Command Access		<input type="checkbox"/>
2	Surface Bolt	585-12	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Closer	351-OTB	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
2	Kick Plate	K1050, 254 x 890 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	STC Seals	By STC Door Manufacturer				<input type="checkbox"/>

By Automatics Supplier

1	Auto Operator	SW200i x PULL x1908 mm header (prep for closer)	689 / US28 / Painted Aluminum	Besam		<input type="checkbox"/>
1	Activation Column Switch	CM-7536/4	Black	Camden		<input type="checkbox"/>
1	Logic Relay	CX-33		Camden		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
2	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.

.....End of Heading.....



Heading# 48

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 12	STC Rating	None
Door Material:	FGD	Frame Material:	ALF	Fire Rating	None

1	Total Openings							
1	Door#	1-67	Location:	Open Workspace 1-67	From	Corridor 1-81	Handing:	RHR

Web Link
Site Verified

By Hardware Supplier						
2	Hydraulic Hinge	835E11N	628 / US28 / Clear Anodized	Colcom		<input type="checkbox"/>
1	Exit Device	PDU8000 x 06 x Less Dogging x MSK	630 / US32D / Satin Stainless Steel	ASSA		<input type="checkbox"/>
1	Door Stop	RM850	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Gasketing	By Aluminum Door Supplier				<input type="checkbox"/>
By Security Supplier						
1	Door Contact	MSS-1G	Black	Securitron		<input type="checkbox"/>
By By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....



Heading#

49

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	1-69	Location:	Museum Storage 1-69	From	Corridor 1-81	Handing:	RHRA

Web Link
Site Verified

By Hardware Supplier

6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CEPT-10	630 / US32D / Satin Stainless Steel	Securitron		<input type="checkbox"/>
1	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
2	Closer	1431-P9	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
2	Overhead Stop	1ADJ-336	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
1	Coordinator	2672	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
2	Mounting Bracket	2601C	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6130	Black	Pemko		<input type="checkbox"/>
1	Astragal	303PK x 2150	719 Milled Aluminum	Pemko		<input type="checkbox"/>

By Security Supplier

1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
2	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>

By PWGSC

1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>
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.....End of Heading.....



Heading# 50

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD-BR3	Frame Material:	HMF-BR3	Fire Rating	None

1 Total Openings								
1	Door#	1-80A	Location:	Atrium 1-96	To	Security Operations Centre	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
3	Concealed Bearing Hinge	TA786 127 x 114 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Closer	1431-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
By Security Supplier						
1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....



Heading# 51

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD-BR3	Frame Material:	HMF-BR3	Fire Rating	None

1 Total Openings								
1	Door#	1-80B	Location:	Corridor 1-87	To	Security Operations Centre	Handing:	RH

Web Link
Site Verified

By Hardware Supplier						
3	Concealed Bearing Hinge	TA786 127 x 114 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Overhead Stop	6ADJ-336	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
1	Closer	1431-O	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By Security Supplier						
1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

-----End of Heading-----



Heading#

51b

Opening Information					
Opening Type:	Single	Opening Size:	1100 x 2438 x 12	STC Rating	None
Door Material:	FGD	Frame Material:	ALF	Fire Rating	None

1 Total Openings								
1	Door#	1-82C	Location:	Vestibule 1-82	From	Exterior	Handing:	LHR

Web Link
Site Verified

By Hardware Supplier					
1	Door Top Rail	DRT-4AC-T x ADO x DC	630 / US32D / Satin Stainless Steel	ASSA	<input type="checkbox"/>
1	Bottom Rail / Pivot	DRT-4AC-BP300	630 / US32D / Satin Stainless Steel	ASSA	<input type="checkbox"/>
1	Exit Device	PDU8000-3 x 02 x ESK-SGL-LBM (fail secure)	630 / US32D / Satin Stainless Steel	ASSA	<input type="checkbox"/>
1	Door Stop	RM856	630 / US32D / Satin Stainless Steel	Rockwood	<input type="checkbox"/>
1	Gasketing	By Aluminum Frame Supplier			<input type="checkbox"/>
By Automatics Supplier					
1	Auto Operator	OAL-100-CH-R/L x PUSH x 1100mm header	630 / US32D / Satin Stainless Steel	Omega	<input type="checkbox"/>
2	Activation Column Switch	CM-7536/4	Black	Camden	<input type="checkbox"/>
1	Logic Relay	CX-33		Camden	<input type="checkbox"/>
By Security Supplier					
1	Intercom	To Suit Building System			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron	<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron	<input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.

.....End of Heading.....



Heading#

52

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1	Total Openings							
1	Door#	1-83	Location:	Corridor 1-81	To	Gender Neutral BF W/R 1-83	Handing:	RH

Web Link
Site Verified

By Hardware Supplier					
3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
1	Electric Strike	1500C – Fail Safe	630 / US32D / Satin Stainless Steel	HES	<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood	<input type="checkbox"/>
1	Overhead Stop	1ADJ-336	630 / US32D / Satin Stainless Steel	Rixson	<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko	<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko	<input type="checkbox"/>
By Automatics Supplier					
1	Auto Operator	SW200i x PULL x 1043mm header	689 / US28 / Painted Aluminum	Besam	<input type="checkbox"/>
1	Wave to Lock Kit	CX-WC16	630 / US32D / Satin Stainless Steel	Camden	<input type="checkbox"/>
1	Emergency Call kit	CX-WEC10K2		Camden	<input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.

.....End of Heading.....

Heading#

53

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

2 Total Openings								
1	Door#	1-84	Location:	Corridor 1-81	To	Male Washroom 1-84	Handing:	RH
1	Door#	1-85	Location:	Corridor 1-81	To	Female Washroom 1-85	Handing:	RH

Web Link
Site Verified

By Hardware Supplier							
6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>	
2	Privacy Lockset with Indicator	V20-60-8225-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>	
2	Closer	DA-1431-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>	
2	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>	
2	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>	
2	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>	
2	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>	
By PWGSC							
2	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>	







.....End of Heading.....

Heading# 54

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	SCWD	Frame Material:	ALF	Fire Rating	None

3	Total Openings							
1	Door#	1-93A	Location:	Learning Centre 1-93	From	Corridor	Handing:	LHR
1	Door#	1-93B	Location:	Learning Centre 1-93	From	Corridor	Handing:	RHR
1	Door#	1-94	Location:	Corridor	To	Training Room 1-94	Handing:	RH

Web Link
Site Verified

By Hardware Supplier					
3	Continuous Hinge	FMSLFHD x 2108	628 / US28 / Clear Anodized	Pemko	 <input type="checkbox"/>
3	Classroom Lockset	60-8237-LNP	630 / US32D / Satin Stainless Steel	Sargent	 <input type="checkbox"/>
3	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	 <input type="checkbox"/>
3	Gasketing	By Aluminum Frame Supplier			 <input type="checkbox"/>
3	Auto Door Bottom	434APKL x 965	719 Milled Aluminum	Pemko	 <input type="checkbox"/>
By PWGSC					
3	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	 <input type="checkbox"/>

.....End of Heading.....








Heading#

55

Opening Information					
Opening Type:	Pair	Opening Size:	2-550 x 2750 x 44	STC Rating	None
Door Material:	SCWD	Frame Material:	WDF	Fire Rating	None

2	Total Openings							
1	Door#	1-93C	Location:	Folding Partition Access	From	Learning Centre 1-93	Handing:	RHRA
1	Door#	1-94A	Location:	Folding Partition Access	From	Training Room 1-94	Handing:	RHRA

Web Link
Site Verified

By Hardware Supplier					
12	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	 <input type="checkbox"/>
2	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood	 <input type="checkbox"/>
2	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood	 <input type="checkbox"/>
2	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent	 <input type="checkbox"/>
4	Overhead Stop	2-126	630 / US32D / Satin Stainless Steel	Rixson	 <input type="checkbox"/>
2	Sound / Smoke Seal	S773 x 6600	Black	Pemko	 <input type="checkbox"/>
By PWGSC					
2	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	 <input type="checkbox"/>

.....End of Heading.....



Heading# 56

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2441 x 12	STC Rating	None
Door Material:	FGD	Frame Material:	ALF	Fire Rating	None

2	Total Openings							
1	Door#	1-95A	Location:	Atrium 1-96	To	Exterior	Handing:	RH
1	Door#	1-95B	Location:	Atrium 1-96	To	Exterior	Handing:	LH

Web Link
Site Verified

By Hardware Supplier					
4	Hydraulic Hinge	835E11N	628 / US28 / Clear Anodized	Colcom	<input type="checkbox"/>
2	Exit Device	PDU8000 x 06 x Less Dogging x MSK	630 / US32D / Satin Stainless Steel	ASSA	<input type="checkbox"/>
2	Gasketing	By Aluminum Frame Supplier			<input type="checkbox"/>
By Security Supplier					
1	Door Contact	MSS-1G	Black	Securitron	<input type="checkbox"/>

- Note:
- Exit Only. No Exterior Access.

-----End of Heading-----



Heading# 57

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	SCWD	Frame Material:	ALF	Fire Rating	None

2	Total Openings							
1	Door#	1-72	Location:	Corridor 1-65	To	Union Office 1-72	Handing:	LH
1	Door#	1-71	Location:	Corridor 1-65	To	Union Office 1-71	Handing:	LH

Web Link
Site Verified

By Hardware Supplier					
2	Continuous Hinge	FMSLFHD x 2108	628 / US28 / Clear Anodized	Pemko	Web Link <input type="checkbox"/>
2	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent	Web Link <input type="checkbox"/>
2	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES	Web Link <input type="checkbox"/>
2	Closer	1431-OT	689 / US28 / Painted Aluminum	Sargent	Web Link <input type="checkbox"/>
2	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	Web Link <input type="checkbox"/>
2	Gasketing	By Aluminum Frame Supplier			Web Link <input type="checkbox"/>
2	Auto Door Bottom	434APKL x 965	719 Milled Aluminum	Pemko	Web Link <input type="checkbox"/>
2	Threshold	271A x 290APKSTOP x 965	719 Milled Aluminum	Pemko	Web Link <input type="checkbox"/>
By Security Supplier					
2	Card Reader	To Suit Building System	Black		Web Link <input type="checkbox"/>
2	Rex Sensor	XMS	White	Securitron	Web Link <input type="checkbox"/>
2	Door Contact	DPS-W	White	Securitron	Web Link <input type="checkbox"/>
2	Access Controller	To Suit Building System			Web Link <input type="checkbox"/>
2	Power Supply	To Suit Building System – Located in Nearest IT Closet			Web Link <input type="checkbox"/>
By PWGSC					
2	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	Web Link <input type="checkbox"/>

-----End of Heading-----



Heading#

58

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	0 HR

1 Total Openings								
1	Door#	1-66	Location:	Corridor 1-65	To	ITIM & ADMIN-IT Operations	Handing:	RHA

Web Link
Site Verified

By Hardware Supplier						
6	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CEPT-10	630 / US32D / Satin Stainless Steel	Securitron		<input type="checkbox"/>
1	Combination Flush Bolt	2845	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Dust Proof Strike	570	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
2	Closer	351-OTB	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Coordinator	2672	628 / US28 / Clear Anodized	Rockwood		<input type="checkbox"/>
1	Floor Stop	441H (Inactive Leaf)	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 6130	Black	Pemko		<input type="checkbox"/>
2	Door Sweep	18100NB x 915	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
1	Astragal	303PK x 2150	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By Security Supplier						
1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
2	Door Contact	DPS-W	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>







.....End of Heading.....

Heading# 59

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 44	STC Rating	52
Door Material:	HMD	Frame Material:	HMF	Fire Rating	0 HR

1 Total Openings								
1	Door#	1-95H	Location:	Corridor 1-65	From	Loading Dock 1-62	Handing:	RHRA

Web Link
Site Verified

By Hardware Supplier					
6	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	 <input type="checkbox"/>
1	Exit Device / Entrance	12-60-NB-8713-F-ETP	630 / US32D / Satin Stainless Steel	Sargent	 <input type="checkbox"/>
1	Exit Device	12-NB-8710-F	630 / US32D / Satin Stainless Steel	Sargent	 <input type="checkbox"/>
2	Closer	351-OTB	689 / US28 / Painted Aluminum	Sargent	 <input type="checkbox"/>
1	STC Seals	By STC Door Manufacturer			 <input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	 <input type="checkbox"/>







.....End of Heading.....

Heading# 60

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

3	Total Openings							
1	Door#	1-95I	Location:	Loading Dock 1-62	To	Mail Digitization Room	Handing:	LH
1	Door#	1-95J	Location:	Loading Dock 1-62	To	Store/Shipping & Receiving	Handing:	RH
1	Door#	1-95K	Location:	Loading Dock 1-62	To	Store/Shipping & Receiving	Handing:	LH

Web Link
Site Verified

By Hardware Supplier					
9	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	 <input type="checkbox"/>
3	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent	 <input type="checkbox"/>
3	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent	 <input type="checkbox"/>
3	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	 <input type="checkbox"/>
3	Sound / Smoke Seal	S773 x 5265	Black	Pemko	 <input type="checkbox"/>
By PWGSC					
3	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	 <input type="checkbox"/>

.....End of Heading.....



Heading# 61

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	IHMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	1-98	Location:	Parking Garage	To	Exterior	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
3	Concealed Bearing Hinge	TA314, 114 x 102 x NRP	630 / US32D / Satin Stainless Steel	McKinney		<input type="checkbox"/>
1	Exit Device	LD-8810-J	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Closer	351-CPS	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Weatherstrip	290APK x 5265	719 Milled Aluminum	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>
1	Threshold	253X3AFG x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By Security Supplier						
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>

Notes:

- Emergency Exit Only

.....End of Heading.....



Heading#

62

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	52
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

2	Total Openings							
1	Door#	1-98A	Location:	Corridor 1-87	From	Fingerprint Photo ID	Handing:	RHR
1	Door#	5-05	Location:	FG#6 Cabinet Bus. Unit Workspace 5-05	From	Corridor 5-22	Handing:	RHR

Web Link
Site Verified

By Hardware Supplier					
6	Heavy Weight Concealed Bearing Hinge	TA786 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	Web Link <input type="checkbox"/>
2	Power Transfer	CDL	628 / US28 / Clear Anodized	Command Access	Web Link <input type="checkbox"/>
2	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent	Web Link <input type="checkbox"/>
2	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent	Web Link <input type="checkbox"/>
2	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	Web Link <input type="checkbox"/>
2	STC Seals	By STC Door Manufacturer			Web Link <input type="checkbox"/>
By Security Supplier					
2	Card Reader	To Suit Building System	Black		Web Link <input type="checkbox"/>
2	Rex Sensor	XMS	White	Securitron	Web Link <input type="checkbox"/>
2	Door Contact	DPS-M	White	Securitron	Web Link <input type="checkbox"/>
2	Access Controller	To Suit Building System			Web Link <input type="checkbox"/>
2	Power Supply	To Suit Building System – Located in Nearest IT Closet			Web Link <input type="checkbox"/>
By PWGSC					
2	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	Web Link <input type="checkbox"/>

Notes:

- Door #1-98A, Security Interlock with Door #1-98B.
- Door #1-98A cannot be electronically unlocked from the secure side until / unless door #1-98B is in the closed / locked position.
- Door #1-98B cannot be electronically unlocked from the secure side until / unless door #1-98A is in the closed / locked position.

.....End of Heading.....



Heading#

63

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	52
Door Material:	HMD-BR3	Frame Material:	HMF-BR3	Fire Rating	None

1 Total Openings								
1	Door#	1-98B	Location:	Fingerprint Photo ID	From	Corridor 1-81	Handing:	LHR

Web Link
Site Verified

By Hardware Supplier						
3	Heavy Weight Concealed Bearing Hinge	TA786, 127 x 114 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Power Transfer	CDL	628 / US28 / Clear Anodized	Command Access		<input type="checkbox"/>
1	Electrified Storeroom Lockset	60-8271-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Closer	351-CPS	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	STC Seals	By STC Door Manufacturer				<input type="checkbox"/>
By Security Supplier						
1	Card Reader	To Suit Building System	Black			<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron		<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>
1	Access Controller	To Suit Building System				<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

Notes:

- Security Interlock with Door #1-98A.
- Door #1-98B cannot be electronically unlocked from the secure side until / unless door #1-98A is in the closed / locked position.
- Door #1-98A cannot be electronically unlocked from the secure side until / unless door #1-98B is in the closed / locked position.

-----End of Heading-----

Heading# 64

Opening Information					
Opening Type:	Single	Opening Size:	600 x 905 x 25	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1	Total Openings							
1	Door#	AP 1-65	Location:	Access Space	From	Corridor 1-65	Handing:	LHR

*** All Hardware by Access Door Supplier.

.....End of Heading.....

Heading# 65

Opening Information					
Opening Type:	Single	Opening Size:	400 x 400 x 25	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1	Total Openings							
1	Door#	AP 1-83	Location:	Access Space	From	Gender Neutral BF W/S 1-83	Handing:	LHR

*** All Hardware by Access Door Supplier.

.....End of Heading.....

Heading# 66

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1	Total Openings							
1	Door#	2-05	Location:	Open Workspace 2-49	From	Lockers 2-05	Handing:	LHR

Web Link
Site Verified

By Hardware Supplier						
3	Concealed Bearing Hinge	TA714, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Pull Handle Set	RM-2230 x 1829 O.A. x MTG 5HD	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Closer	1431-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	420APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>

.....End of Heading.....



Heading#

67

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	None
Door Material:	SCWD	Frame Material:	ALF	Fire Rating	None

1	Total Openings							
1	Door#	2-35	Location:	Corridor	To	Gender Neutral BF W/R 2-35	Handing:	RH

Web Link
Site Verified

By Hardware Supplier						
1	Continuous Hinge	FMSLFHD x 2108	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
1	Storeroom Lockset	60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Electric Strike	1500C – Fail Safe	630 / US32D / Satin Stainless Steel	HES		<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Overhead Stop	1ADJ-336	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 5265	Black	Pemko		<input type="checkbox"/>
1	Auto Door Bottom	434APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By Automatics Supplier						
1	Auto Operator	SW200i x PULL x 1043mm header	689 / US28 / Painted Aluminum	Besam		<input type="checkbox"/>
1	Wave to Lock Kit	CX-WC16	630 / US32D / Satin Stainless Steel	Camden		<input type="checkbox"/>
1	Emergency Call kit	CX-WEC10K2		Camden		<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.

.....End of Heading.....



Heading# 68

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 45	STC Rating	None
Door Material:	ALD	Frame Material:	ALF	Fire Rating	3/4 HR

2	Total Openings							
1	Door#	3-13	Location:	New Pedway Bridge	From	Open Workspace 3-13	Handing:	LHRA/RHRA
1	Door#	3-43	Location:	New Pedway Bridge	From	Corridor	Handing:	LHRA/RHRA

*** Aluminum Door Supplier to provide All Hardware as per labelling requirements **See Specification Section 08 11 17.

.....End of Heading.....





Heading#

68A

Opening Information					
Opening Type:	Pair	Opening Size:	2-915 x 2150 x 45	STC Rating	None
Door Material:	ALD	Frame Material:	ALF	Fire Rating	None

2	Total Openings							
1	Door#	2-53A	Location:	New Pedway Bridge	From	Corridor	Handing:	LHRA/RHRA
1	Door#	2-53B	Location:	New Pedway Bridge	From	Corridor	Handing:	LHRA/RHRA

Web Link
Site Verified

By Hardware Supplier					
4	Continuous Hinge	CFMSLFHD x 2125	628 / US28 / Clear Anodized	Pemko	 <input type="checkbox"/>
4 Sets	Pull Handle	RM-2230 x 1829 O.A. x MTG 5HD	630 / US32D / Satin Stainless Steel	Rockwood	 <input type="checkbox"/>
4	Overhead Stop	1ADJ-336	630 / US32D / Satin Stainless Steel	Rixson	 <input type="checkbox"/>
4	Closer	1431-OZ x 1431B	689 / US28 / Painted Aluminum	Sargent	 <input type="checkbox"/>
2	Gasketing	By Aluminum Door Supplier			<input type="checkbox"/>
4	Auto Door Bottom	By Aluminum Door Supplier			<input type="checkbox"/>

.....End of Heading.....



Heading# 69

Opening Information					
Opening Type:	Single	Opening Size:	Various	STC Rating	None
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

6	Total Openings							
1	Door#	2R-01	Location:	Roof Access	From	Open Workspace	Handing:	RH
1	Door#	3R-01	Location:	Roof Access	From	Open Workspace	Handing:	RH
1	Door#	4R-01	Location:	Roof Access	From	Open Workspace	Handing:	RH
1	Door#	4R-02	Location:	Roof Access	From	Open Workspace	Handing:	RH
1	Door#	4R-03	Location:	Roof Access	From	Open Workspace	Handing:	RH
1	Door#	5R-01	Location:	Roof Access	From	Open Workspace	Handing:	RH

Web Link
Site Verified

By Access Door Supplier						
		All Hardware by Curtainwall Manufacturer				<input type="checkbox"/>
By Security Supplier						
6	Door Contact	DPS-M	White	Securitron		<input type="checkbox"/>




-----End of Heading-----

Heading# 70

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2755 x 44	STC Rating	None
Door Material:	SCWD	Frame Material:	ALF	Fire Rating	None

2	Total Openings							
1	Door#	3-05	Location:	Open Workspace 3-34	From	Lockers 3-05	Handing:	LHR
1	Door#	4-05	Location:	Open Workspace 4-30	From	Lockers 4-05	Handing:	LHR

Web Link
Site Verified

By Hardware Supplier						
2	Continuous Hinge	FMSLFHD x 2692	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
2	Pull Handle Set	RM-2230 x 1829 O.A. x MTG 5HD	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
2	Closer	1431-OT	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
2	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood		<input type="checkbox"/>
2	Gasketing	By Aluminum Frame Supplier				<input type="checkbox"/>
2	Auto Door Bottom	434APKL x 965	719 Milled Aluminum	Pemko		<input type="checkbox"/>

-----End of Heading-----

Heading# 71

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 57	STC Rating	51
Door Material:	SCWD	Frame Material:	HMF	Fire Rating	None

1	Total Openings							
1	Door#	3-79	Location:	Business Centre 3-78	To	Health Prof. Med. Library	Handing:	LH

Web Link
Site Verified

By Hardware Supplier						
3	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney		<input type="checkbox"/>
1	Storeroom Lockset	31-60-8204-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
1	Closer	351-OTB	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
1	STC Seals	By STC Door Manufacturer				<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....



Heading#

72

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 57	STC Rating	51
Door Material:	SCWD	Frame Material:	HMF	Fire Rating	None

2	Total Openings							
1	Door#	4-02B	Location:	GCSI Suite 4-02D	To	GCSI Room 4-02B	Handing:	RH
1	Door#	4-02C	Location:	Open Workspace 4-30	To	GCSI Room 4-02C	Handing:	RH

Web Link
Site Verified

By Hardware Supplier					
6	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	<input type="checkbox"/>
2	Storeroom Lockset w/ Deadbolt	31-60-8251-LNP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
2	Electric Strike	1006-CAS	630 / US32D / Satin Stainless Steel	HES	<input type="checkbox"/>
2	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent	<input type="checkbox"/>
2	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	<input type="checkbox"/>
2	STC Seals	By STC Door manufacturer			<input type="checkbox"/>
By Security Supplier					
2	Card Reader	To Suit Building System	Black		<input type="checkbox"/>
2	Rex Sensor	XMS	White	Securitron	<input type="checkbox"/>
2	Door Contact	DPS-W	White	Securitron	<input type="checkbox"/>
2	Access Controller	To Suit Building System			<input type="checkbox"/>
2	Power Supply	To Suit Building System – Located in Nearest IT Closet			<input type="checkbox"/>
By Burke W B & Son Ltd.					
2	Permanent Core UL437	To Suit Building System – UL437	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>







.....End of Heading.....

Heading# 73

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 57	STC Rating	51
Door Material:	SCWD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	4-02D	Location:	Open Workspace 4-21A	To	GCSI Suite 4-02D	Handing:	RH

Web Link
Site Verified

By Hardware Supplier					
3	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	 <input type="checkbox"/>
1	Storeroom Lockset w/ Deadbolt	31-60-8251-LNP	630 / US32D / Satin Stainless Steel	Sargent	 <input type="checkbox"/>
1	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent	 <input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	 <input type="checkbox"/>
1	STC Seals	By STC Door manufacturer			 <input type="checkbox"/>
By Burke W B & Son Ltd.					
1	Permanent Core UL437	To Suit Building System – UL437	626 / US26D / Satin Chrome	Sargent	 <input type="checkbox"/>





.....End of Heading.....

Heading# 74

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 57	STC Rating	51
Door Material:	SCWD	Frame Material:	HMF	Fire Rating	None

1	Total Openings							
1	Door#	5-01	Location:	Minister's Office 5-04	To	Minister's Washroom 5-01	Handing:	LH

Web Link
Site Verified

By Hardware Supplier					
3	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	 <input type="checkbox"/>
1	Privacy Lockset	31-8265-LNP	630 / US32D / Satin Stainless Steel	Sargent	 <input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	 <input type="checkbox"/>
1	STC Seals	By STC Door manufacturer			 <input type="checkbox"/>






.....End of Heading.....

Heading# 74b

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	51
Door Material:	SCWD	Frame Material:	HMF	Fire Rating	None

1	Total Openings							
1	Door#	5-04B	Location:	Corridor 5-30	To	Chief Enclosed Room 5-04B	Handing:	RH

Web Link
Site Verified

By Hardware Supplier					
3	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	 <input type="checkbox"/>
1	Office Lockset	60-8205-LNP	630 / US32D / Satin Stainless Steel	Sargent	 <input type="checkbox"/>
1	Door Stop	RM850	630 / US32D / Satin Stainless Steel	Rockwood	 <input type="checkbox"/>
1	STC Seals	By STC Door manufacturer			 <input type="checkbox"/>
By PWGSC					
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent	 <input type="checkbox"/>

.....End of Heading.....



Heading#

75

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 44	STC Rating	51
Door Material:	HMD	Frame Material:	HMF	Fire Rating	None

1 Total Openings								
1	Door#	5-04C	Location:	FG#6 Cabinet Bus. Unit Workspace 5-05	To	GCSI Room 5-04C	Handing:	LH

Web Link
Site Verified

By Hardware Supplier					
3	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	<input type="checkbox"/>
1	Storeroom Lockset w/ Deadbolt	60-8251-LNP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
1	Electric Strike	1006-CAS	630 / US32D / Satin Stainless Steel	HES	<input type="checkbox"/>
1	Kick Plate	K1050, 254 x 927 x SA	630 / US32D / Satin Stainless Steel	Rockwood	<input type="checkbox"/>
1	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	<input type="checkbox"/>
1	STC Seals	By STC Door manufacturer			<input type="checkbox"/>
By Security Supplier					
1	Card Reader	To Suit Building System	Black		<input type="checkbox"/>
1	Rex Sensor	XMS	White	Securitron	<input type="checkbox"/>
1	Door Contact	DPS-M	White	Securitron	<input type="checkbox"/>
1	Access Controller	To Suit Building System			<input type="checkbox"/>
1	Power Supply	To Suit Building System – Located in Nearest IT Closet			<input type="checkbox"/>
By Burke W B & Son Ltd.					
1	Permanent Core UL437	To Suit Building System – UL437	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

.....End of Heading.....



Heading#

76

Opening Information					
Opening Type:	Single	Opening Size:	965 x 2150 x 57	STC Rating	51
Door Material:	SCWD	Frame Material:	HMF	Fire Rating	None

2	Total Openings							
1	Door#	5-23	Location:	Open Workspace 5-14	To	GCSI Room 5-23	Handing:	RH
1	Door#	5-24	Location:	Open Workspace 5-14	To	GCSI Room 5-24	Handing:	LH

Web Link
Site Verified

By Hardware Supplier					
6	Heavy Weight Concealed Bearing Hinge	TA786, 114 x 102 x NRP	652 / US26D / Satin Chrome	McKinney	<input type="checkbox"/>
2	Storeroom Lockset w/ Deadbolt	31-60-8251-LNP	630 / US32D / Satin Stainless Steel	Sargent	<input type="checkbox"/>
2	Electric Strike	1006-CAS	630 / US32D / Satin Stainless Steel	HES	<input type="checkbox"/>
2	Closer	351-OT	689 / US28 / Painted Aluminum	Sargent	<input type="checkbox"/>
2	Floor Stop	441H	626 / US26D / Satin Chrome	Rockwood	<input type="checkbox"/>
2	STC Seals	By STC Door manufacturer			<input type="checkbox"/>
By Security Supplier					
2	Card Reader	To Suit Building System	Black		<input type="checkbox"/>
2	Rex Sensor	XMS	White	Securitron	<input type="checkbox"/>
2	Door Contact	DPS-W	White	Securitron	<input type="checkbox"/>
2	Access Controller	To Suit Building System			<input type="checkbox"/>
2	Power Supply	To Suit Building System – Located in Nearest IT Closet			<input type="checkbox"/>
By Burke W B & Son Ltd.					
2	Permanent Core UL437	To Suit Building System – UL437	626 / US26D / Satin Chrome	Sargent	<input type="checkbox"/>

.....End of Heading.....

Heading# 77

Opening Information					
Opening Type:	Pair	Opening Size:	2-1500 x 2570 x 57	STC Rating	None
Door Material:	IHMD	Frame Material:	HMF	Fire Rating	0 HR

1	Total Openings							
1	Door#	1-62F	Location:	Loading Dock 1-62	To	Atrium 1-96	Handing:	RHA

Web Link
Site Verified

By Hardware Supplier						
1	Pivot Set	L117-3/4-2.25" DT - LH	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
1	Pivot Set	L117-3/4-2.25" DT - RH	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
2	Intermediate Pivot	M19-3/4-2.25" DT - RH	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
2	Intermediate Pivot	M19-3/4-2.25" DT - LH	630 / US32D / Satin Stainless Steel	Rixson		<input type="checkbox"/>
2	Surface Bolts	580-24	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
1	Utility Lockset	60-8231-LNP	630 / US32D / Satin Stainless Steel	Sargent		<input type="checkbox"/>
2	Closer	351-P10 (180-degree alternate installation)	689 / US28 / Painted Aluminum	Sargent		<input type="checkbox"/>
2	Kick Plate	K1050, 305 x 1220 x SA	630 / US32D / Satin Stainless Steel	Rockwood		<input type="checkbox"/>
2	Heavy Duty Floor Stop	GSH 211	630 / US32D / Satin Stainless Steel	Gallery		<input type="checkbox"/>
1	Sound / Smoke Seal	S773 x 8500	Black	Pemko		<input type="checkbox"/>
2	Door Sweep	18100NB x 1500 (push side)	628 / US28 / Clear Anodized	Pemko		<input type="checkbox"/>
1	Astragal	303PK x 2750 (push side)	719 Milled Aluminum	Pemko		<input type="checkbox"/>
By PWGSC						
1	Permanent Core	To Suit Building System	626 / US26D / Satin Chrome	Sargent		<input type="checkbox"/>

.....End of Heading.....

END OF SCHEDULE

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 21 05 00 - Common Work Results for Fire Suppression.

1.2 REFERENCE STANDARDS

- .1 CAN/ULC-S503-05 (R2018) – Carbon-Dioxide Fire Extinguishers
- .2 CAN/ULC-S508-2018 – Standard for the Rating and Fire Testing of Fire Extinguishers
- .3 NFPA 10-2022 - Standard for Portable Fire Extinguishers

1.3 SUBMITTALS

- .1 Shop Drawings
 - .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Submit product data for fire extinguishers and extinguisher cabinets.

Part 2 Products

2.1 MULTIPURPOSE DRY CHEMICAL EXTINGUISHERS

- .1 Stored pressure rechargeable type with hose and shut-off nozzle, for A, B and C class protection, red enamel finish. Sizes 2.3 kg, 4.5 kg as required.

2.2 ORDINARY DRY CHEMICAL EXTINGUISHERS

- .1 Stored pressure type with hose and shut-off nozzle, for B and C class protection, glossy enamel finish. Sizes 2.5 kg, 4.5 kg as required.

2.3 CARBON DIOXIDE EXTINGUISHERS

- .1 Insulated handle, hose and horn discharge assembly, self-closing lever or squeeze-grip operation, for B and C class protection, glossy baked enamel finish. Sizes 2.3 kg, 4.5 kg as required.

2.4 EXTINGUISHER BRACKETS

- .1 Supplied by extinguisher manufacturer.

2.5 EXTINGUISHER CABINETS

- .1 Surface mounted or fully recessed type as shown on the Drawings.
- .2 Constructed of 1.9 mm steel.

- .3 180° opening door of 2.0 mm steel with latching devices, 5 mm glass panel and white baked enamel primed door finish. Cabinets used in parking area and other unfinished areas accessible to the public shall be with plexi-glass panel.

2.6 IDENTIFICATION OF EXTINGUISHERS

- .1 Include bilingual tag or label attached to extinguishers, in accordance with the requirements of NFPA 10, and provincial or municipal fire codes, indicating month and year of installation, with additional space for service dates.

Part 3 Execution

3.1 FIRE EXTINGUISHERS INSTALLATION

- .1 Extinguishers in all service spaces such as mechanical and electrical rooms shall be 6A80BC rating multi-purpose dry chemical powder type.
- .2 Extinguishers in general areas shall be minimum 3A40BC rating multi-purpose dry chemical powder type.
- .3 Mount extinguishers in cabinets in all areas accessible by public, and on brackets in all other areas. **Areas not accessible to the public include Mechanical, Electrical, Data, Penthouse, Parking Garage, Storages and Janitors rooms plus the Loading Dock.**
- .4 Spacing of extinguishers shall conform to the requirements of the authority having jurisdiction. Maximum spacing for ordinary hazard shall be 9 m for 10 BC extinguisher and 15 m for 20 BC extinguishers, but in no case shall there be less than one extinguisher in each electrical room, kitchen or mechanical room. Maximum spacing for Type A extinguishers in general offices shall be 25 m. Review locations with the authority having jurisdiction prior to installation.
- .5 Install extinguishers at project completion which are fully charged and ready for operation upon installation. Provide extinguishers complete with manufacturer's warranty with inspection tag attached.

END OF SECTION

~~27 May~~ **01 Sep** 2022**Part 1 General****1.1 RELATED REQUIREMENTS**

- .1 Section 07 84 00 - Fire Stopping
- .2 Section 23 36 00 - Air Terminal Units, clause
- .3 Section 25 05 01 – General Requirements
- .4 Section 25 05 54 - EMCS: Identification
- .5 Section 25 08 20 - EMCS: Warranty and Maintenance
- .6 Section 26 05 00 - Common Work Results for Electrical

1.2 REFERENCE STANDARDS

- .1 American National Standards Institute (ANSI)
 - .1 ANSI/ASME B16.22-2013, Wrought Copper and Copper Alloy Solder Joint Pressures Fittings.
 - .2 ANSI C2-1990, National Electrical Safety Code.
 - .3 ANSI/NFPA 70-1990, National Electrical Code.
- .2 CSA Group (CSA)
 - .1 CSA C22.1-12,
 - .2 CAN/CSA-C22.3 No. 7-10, Underground Systems.
 - .3 CAN/CSA C22.2 No. 45.1-07(R2012), Electrical Rigid Metal Conduit.
 - .4 CAN/CSA C22.2 No. 56-13, Flexible Metal Conduit and Liquid-Tight Flexible Metal Conduit.
 - .5 CAN/CSA C22.2 No. 83-M1985(R2013), Electrical Metallic Tubing.
 - .6 CAN/CSA-C22.3 No. 1-10, Overhead Systems.

1.3 SYSTEM DESCRIPTION

- .1 Electrical:
 - .1 Provide power wiring from emergency power panels to EMCS field panels. Circuits to be for exclusive use of EMCS equipment. Panel breakers to be identified on panel legends tagged and locks applied to breaker switches.
 - .2 Hard wiring between field control devices and EMCS field panels.
 - .3 Communication wiring between EMCS field panels and OWS's including main control centre BECC.
 - .4 Modify existing starters to provide for EMCS as indicated in I/O Summaries and as indicated.
 - .5 Refer to wiring diagrams included as part of flow diagrams.
 - .6 Trace existing control wiring installation and provide updated wiring schematics including additions and/or deletions to control circuits for approval by engineer before commencing work.

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- .2 Mechanical:
 - .1 Pipe Taps Required for EMCS equipment will be supplied and installed by Division 23
 - .2 Wells and Control Valves Shall Be Supplied by EMCS Contractor and Installed by Division 23
 - .3 Installation of air flow stations, dampers, and other devices requiring sheet metal trades to be mounted by Division 23. Costs to be carried by designated trade.
- .3 VAV Terminal Units.
 - .1 Air flow probe for vav boxes to be supplied and installed under Section 23 36 00 - Air Terminal Units. Air flow dp sensor, actuator and associated vav controls to be supplied and installed by EMCS contractor. Tubing from air probe to dp sensor as well as installation and adjustment of air flow sensors and actuators to be the responsibility of EMCS contractor. Coordinate air flow adjustments with balancing trade.
- .4 Structural:
 - .1 Special steelwork as required for installation of work.

1.4 PERSONNEL QUALIFICATIONS

- .1 Qualified supervisory personnel to:
 - .1 Continuously direct and monitor all work.
 - .2 Attend site meetings.

1.5 EXISTING CONDITIONS

- .1 Cutting and Patching: refer to Section 01 73 00 - Execution supplemented as specified herein.
- .2 Repair all surfaces damaged during execution of work.
- .3 Turn over to Departmental Representative existing materials removed from work not identified for re-use.

Part 2 Products

2.1 PIPING

- .1 Domestic H&CWS: refer to related Section
- .2 Sanitary, storm water: refer to related Section
- .3 Hot water heating, chilled water: refer to related Section
- .4 Condenser water: refer to related Section
- .5 Steam: refer to related Section
- .6 Refrigeration: refer to related Section
- .7 Sleeves, escutcheons: refer to related Section
- .8 Hangers and supports: refer to related Section.

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.9 Insulation: refer to related Section.

2.2 SPECIAL SUPPORTS

.1 Structural grade steel, primed and painted after construction and before installation.

2.3 PIPING FOR PNEUMATIC CONTROL SYSTEMS

.1 Copper:

.1 Tubing:

.1 Fittings: wrought copper solder type to ANSI/ASME B16.22, and 95.5 antimonial tin solder. At instruments use compression fittings

.2 At panels and junction boxes where there is a transition from plastic to copper use bulkhead fittings.

.2 Plastic:

.1 Flame retardant, black PVC with minimum burst strength 1.3 MPa at 23 degrees Celsius installed in conduit.

.2 Fittings: compression or barbed type as required.

2.4 WIRING

.1 As per requirements of Division 26.

.2 For 70V and above copper conductor with chemically cross-linked thermosetting polyethylene insulation rated RW90 and 600V. Colour code to CSA 22.1

.3 ~~For wiring under 70 volts use FT6 rated wiring where wiring is not run in conduit. All other cases use FT4 wiring.~~ **All control wiring to be run in conduits.**

.4 Sizes:

.1 120V Power supply: to match or exceed breaker, size #12 minimum.

.2 Wiring for safeties/interlocks for starters, motor control centres, to be stranded, #14 minimum.

.3 Field wiring to digital device: #18 AWG/20 AWG stranded twisted pair.

.4 Analog input and output: shielded #18 minimum solid copper #20 minimum stranded twisted pair. Wiring must be continuous without joints.

.5 More than 4 conductors: #22 minimum solid copper.

.5 Terminations:

.1 Terminate wires with screw terminal type connectors suitable for wire size, and number of terminations.

2.5 CONDUIT

.1 As per requirements of Division 26.

.2 Electrical metallic tubing to CAN/CSA C22.2 No. 83. Flexible and liquid tight flexible metal conduit to CAN/CSA C22.2 No. 56. Rigid steel threaded conduit to CAN/CSA C22.2 No. 45.1

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- .3 Junction and pull boxes: welded steel.
 - .1 Surface mounting cast FS: screw-on flat covers.
 - .2 Flush mounting: covers with 25 mm minimum extension all round.
- .4 Cabinets: sheet steel, for surface mounting, with hinged door, latch lock, 2 keys, complete with perforated metal mounting backboard. Panels to be keyed alike for similar functions and or entire contract as approved.
- .5 Outlet boxes: 100 mm minimum, square.
- .6 Conduit boxes, fittings:
 - .1 Bushings and connectors: with nylon insulated throats.
 - .2 With push pennies to prevent entry of foreign materials.
- .7 Fittings for rigid conduit:
 - .1 Couplings and fittings: threaded type steel.
 - .2 Double locknuts and insulated bushings: use on sheet metal boxes.
 - .3 Use factory "ells" where 90 degree bends required for 25 mm and larger conduits.
- .8 Fittings for thin wall conduit:
 - .1 Connectors and couplings: steel, set screw type.

2.6 WIRING DEVICES, COVER PLATES

- .1 Conform to CSA
- .2 Receptacles:
 - .1 Duplex: CSA type 5-15R
 - .2 Single: CSA type 5-15R
 - .3 Cover plates and blank plates: finish to match other plates in area.

2.7 STARTERS, CONTROL DEVICES

- .1 Across-the-line magnetic starters:
 - .1 Enclosures: CSA Type 1, except where otherwise specified
 - .2 Size, type and rating: to suit motors.
- .2 Starter diagrams:
 - .1 Provide copy of wiring and schematic diagrams - mount one copy in each starter with additional copies for operation and maintenance manual.
- .3 Auxiliary Control Devices:
 - .1 Control transformers: 60 Hz, primary voltage to suit supply, 120 V single phase secondary, VA rating to suit load plus 20% margin.
 - .2 Auxiliary contacts: one "Normally Open" and one "Normally Closed" spare auxiliary contact in addition to maintained auxiliary contacts as indicated.
 - .3 Hand-Off-Automatic switch: heavy duty type, knob lever operator.

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- .4 Double voltage relays: with barrier to separate relay contacts from operating magnet. Operating coil voltage and contact rating as indicated.
- .4 Finish for starters:
 - .1 Exterior: in accordance with Section 26 05 00 - Common Work Results for Electrical.
 - .2 Interior: white.

2.8 SUPPORTS FOR CONDUIT, FASTENINGS, EQUIPMENT

- .1 Solid masonry, tile and plastic surfaces: lead anchors or nylon shields.
 - .1 Hollow masonry walls, suspended drywall ceilings: toggle bolts.
- .2 Exposed conduits or cables:
 - .1 50 mm diameter and smaller: one-hole steel straps.
 - .2 Larger than 50 mm diameter: two-hole steel straps.
- .3 Suspended support systems:
 - .1 Individual cable or conduit runs: support with 6 mm diameter threaded rods and support clips.
 - .2 Two or more suspended cables or conduits: support channels supported by 6 mm diameter threaded rod hangers.

Part 3 Execution

3.1 INSTALLATION

- .1 Install equipment, components so that manufacturer's and CSA labels are visible and legible after commissioning is complete

3.2 PIPING

- .1 Domestic H&CWS: refer to related Section
- .2 Sanitary, storm water: refer to related Section
- .3 Hot water heating, chilled water: refer to related Section
- .4 Condenser water: refer to related Section
- .5 Steam: refer to related Section
- .6 Refrigeration: refer to related Section
- .7 Insulation: refer to related Section

3.3 MECHANICAL PIPING

- .1 Install piping straight, parallel and close to building structure with required grades for drainage and venting.
- .2 Ream ends of pipes before assembly.
- .3 Copper tubing not to come into contact with dissimilar metal.

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- .4 Use non-corrosive lubricant or Teflon tape on male screwed threads.
- .5 Clean ends of pipes, tubing and recesses of fittings to be brazed or soldered. Assemble joints without binding.
- .6 Install di-electric couplings where dissimilar metals joined.
- .7 Sleeves:
 - .1 Installation:
 - .1 Concrete, masonry walls, concrete floors on grade: terminate flush with finished surface.
 - .2 Other floors: terminate 25 mm above finished floor.
 - .3 Before installation, paint exposed exterior surfaces with heavy application of zinc-rich paint.
 - .2 Caulking:
 - .1 Foundation walls and below grade floors: fire retardant, waterproof non-hardening mastic.
 - .2 Elsewhere: provide space for fire stopping by Section 07 84 00 - Fire Stopping. Maintain the fire-resistance rating integrity of the fire separation.
 - .3 Sleeves installed for future use: fill with lime plaster or other easily removable filler.
 - .4 Ensure no contact between copper pipe or tube and sleeve.
- .8 Pressure tests:
 - .1 Pressure test all piping systems modified under this contract to 1 1/2 times maximum working pressure or 860 kPa (whichever is greater) for 4 hours without loss of pressure. Test all piping systems modified under this contract by means of visual inspection of each connection.
 - .2 Isolate equipment, components, not designed to withstand test pressure.
- .9 Introduce system pressure carefully into new piping.

3.4 SUPPORTS

- .1 Install special supports as required and as indicated.

3.5 PNEUMATIC CONTROL SYSTEMS

- .1 General:
 - .1 Install tubing in accessible concealed locations, straight, parallel and close to building structure with required grades for drainage and venting.
 - .2 Install drip legs and drains at low points.
 - .3 Tubing to be free from surface damage.
 - .4 Tubing NOT to pass through or touch unheated ducts or enclosures.
 - .5 Do not cover pneumatic tubing with insulation.
 - .6 Test tubing, check joints after connection to system.

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- .2 Copper tubing:
 - .1 Not to come into contact with dissimilar metal. Use non-metallic stand-offs on air handling systems.
 - .2 Install dielectric couplings where dissimilar metals are connected.
 - .3 Plastic tubing:
 - .1 Inaccessible locations: install plastic tubing in conduit.
 - .2 Inside panels: install in tube trays or racks, or clip individually to back of panel.
 - .3 Multiple tube bundles: install in tube trays, conduit or armoured flexible cable.

3.6 ELECTRICAL GENERAL

- .1 Do complete installation in accordance with requirements of:
 - .1 Division 26, this specification.
 - .2 CSA 22.1 Canadian Electrical Code
 - .3 ANSI/NFPA 70
 - .4 ANSI C2
- .2 Fully enclose or properly guard electrical wiring, terminal blocks, high voltage above 70 V contacts and mark to prevent accidental injury.
- .3 Do underground installation to CAN/CSA-C22.3 No.7, except where otherwise specified
- .4 Conform to manufacturer's recommendations for storage, handling and installation.
- .5 Check factory connections and joints. Tighten where necessary to ensure continuity.
- .6 Install electrical equipment between 1000 and 2000 mm above finished floor wherever possible and adjacent to related equipment.
- .7 Protect exposed live equipment such as panel, mains, outlet wiring during construction for personnel safety.
- .8 Shield and mark live parts "LIVE 120 VOLTS" or other appropriate voltage.
- .9 Install conduits, and sleeves prior to pouring of concrete.
- .10 Holes through exterior wall and roofs: flash and make weatherproof.
- .11 Make necessary arrangements for cutting of chases, drilling holes and other structural work required to install electrical conduit, cable, pull boxes, outlet boxes.
- .12 Install cables, conduits and fittings which are to be embedded or plastered over, neatly and closely to building structure to minimize furring.

3.7 CONDUIT SYSTEM

- .1 Communication wiring shall be installed in conduit. Provide complete conduit system to link Building Controllers to BECC. Conduit sizes to suit wiring requirements and to allow for future expansion capabilities specified for systems. Maximum conduit fill not to exceed 40%. Design drawings do not show conduit layout.

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- .2 Install conduits parallel or perpendicular to building lines, to conserve headroom and to minimize interference.
- .3 Do not run exposed conduits in normally occupied spaces unless otherwise indicated or unless impossible to do otherwise. Obtain approval from Departmental Representative before starting such work. Provide complete conduit system to link field panels and devices with main control centre. Conduit size to match conductors plus future expansion capabilities as specified.
- .4 Locate conduits at least 150 mm from parallel steam or hot water pipes and at least 50 mm at crossovers.
- .5 Bend conduit so that diameter is reduced by less than 1/10th original diameter.
- .6 Field thread on rigid conduit to be of sufficient length to draw conduits up tight.
- .7 Limit conduit length between pull boxes to less than 30 m.
- .8 Use conduit outlet boxes for conduit up to 32 mm diameter and pull boxes for larger sizes.
- .9 Fastenings and supports for conduits, cables, and equipment:
 - .1 Provide metal brackets, frames, hangers, clamps and related types of support structures as indicated and as required to support cable and conduit runs.
 - .2 Provide adequate support for raceways and cables, sloped vertically to equipment.
 - .3 Use supports or equipment installed by other trades for conduit, cable and raceway supports only after written approval from Departmental Representative.
- .10 Install polypropylene fish cord in empty conduits for future use.
- .11 Where conduits become blocked, remove and replace blocked sections.
- .12 Pass conduits through structural members only after receipt of Departmental Representative's written approval.
- .13 Conduits may be run in flanged portion of structural steel.
- .14 Group conduits wherever possible on suspended or surface channels.
- .15 Pull boxes:
 - .1 Install in inconspicuous but accessible locations.
 - .2 Support boxes independently of connecting conduits.
 - .3 Fill boxes with paper or foam to prevent entry of construction material.
 - .4 Provide correct size of openings. Reducing washers not permitted.
 - .5 Mark location of pull boxes on record drawings.
 - .6 Identify AC power junction boxes, by panel and circuit breaker.
- .16 Install terminal blocks or strips indicated in cabinets.
- .17 Install bonding conductor for 120 volt and above in conduit.

3.8 WIRING

- .1 Install multiple wiring in ducts simultaneously.

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- .2 Do not pull spliced wiring inside conduits or ducts.
- .3 Use CSA certified lubricants of type compatible with insulation to reduce pulling tension
- .4 Tests: use only qualified personnel. Demonstrate that:
 - .1 Circuits are continuous, free from shorts, unspecified grounds.
 - .2 Resistance to ground of all circuits is greater than 50 Megohms.
- .5 Provide Departmental Representative with test results showing locations, circuits, results of tests.
- .6 Remove insulation carefully from ends of conductors and install to manufacturer's recommendations. Accommodate all strands in lugs. Where insulation is stripped in excess, neatly tape so that only lug remains exposed.
- .7 Wiring in main junction boxes and pull boxes to terminate on terminal blocks only, clearly and permanently identified. Junctions or splices not permitted for sensing or control signal covering wiring.
- .8 Do not allow wiring to come into direct physical contact with compression screw.
- .9 Install ALL strands of conductor in lugs of components. Strip insulation only to extent necessary for installation.

3.9 WIRING DEVICES, COVER PLATES

- .1 Receptacles:
 - .1 Install vertically in gang type outlet box when more than one receptacle is required in one location.
 - .2 Cover plates:
 - .1 Install suitable common cover plate where wiring devices are grouped.
 - .2 Use flush type cover plates only on flush type outlet boxes.

3.10 STARTERS, CONTROL DEVICES

- .1 Install and make power and control connections as indicated.
- .2 Install correct over-current devices.
- .3 Identify each wire, terminal for external connections with permanent number marking identical to diagram.
- .4 Performance Verification:
 - .1 Operate switches and controls to verify functioning.
 - .2 Perform start and stop sequences of contactors and relays.
 - .3 Check that interlock sequences, with other separate related starters, equipment, and auxiliary control devices, operate as specified.

3.11 GROUNDING

- .1 Install complete, permanent, continuous grounding system for equipment, including conductors, connectors and accessories.
- .2 Install separate grounding conductors in conduit within building.

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- .3 Install ground wire in all PVC ducts and in tunnel conduit systems.
- .4 Tests: perform ground continuity and resistance tests, using approved method appropriate to site conditions.

3.12 TESTS

- .1 General:
 - .1 Perform following tests in addition to tests specified Section 25 08 20 - EMCS: Warranty and Maintenance.
 - .2 Give 14 days written notice of intention to test.
 - .3 Conduct in presence of Departmental Representative and authority having jurisdiction.
 - .4 Conceal work only after tests satisfactorily completed.
 - .5 Report results of tests to Departmental Representative in writing.
 - .6 Preliminary tests:
 - .1 Conduct as directed to verify compliance with specified requirements.
 - .2 Make needed changes, adjustments, replacements.
 - .3 Insulation resistance tests:

3.13 IDENTIFICATION

- .1 Refer to Section 25 05 54 - EMCS: Identification.

END OF SECTION

Part 1 General~~1.1~~ **SUMMARY**

- ~~.1~~
- Section Includes:

~~1.2~~**1.1** **DEFINITIONS**

- .1 Acronyms and Definitions: refer to Section 25 05 01 - EMCS: General Requirements.

~~1.3~~**1.2** **REFERENCE STANDARDS**

- .1 American National Standards Institute (ANSI).
- .1 ANSI C12.7-1993(R1999), Requirements for Watthour Meter Sockets.
- .2 ANSI/IEEE C57.13-1993, Standard Requirements for Instrument Transformers.
- .2 ASTM International (ASTM)
- .1 ASTM B148-97(03), Standard Specification for Aluminum-Bronze Sand Castings.
- .3 National Electrical Manufacturer's Association (NEMA).
- .1 NEMA 250-03, Enclosures for Electrical Equipment (1000 Volts Maximum).
- .4 Air Movement and Control Association Inc. (AMCA).
- .1 AMCA Standard 500-D-98, Laboratory Method of Testing Dampers For Rating.
- .5 CSA Group CSA Group
- .1 CSA-C22.1-02, Canadian Electrical Code, Part 1 (19th Edition), Safety Standard for Electrical Installations.

~~1.4~~**1.3** **ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit shop drawings and manufacturer's installation instructions in accordance with Section 25 05 02 - EMCS: Submittals and Review Process.
- .2 Pre-Installation Tests.
- .1 Submit samples at random from equipment shipped, as requested by Departmental Representative, for testing before installation. Replace devices not meeting specified performance and accuracy.
- .3 Manufacturer's Instructions:
- .1 Submit manufacturer's installation instructions for specified equipment and devices.

~~1.5~~**1.4** **EXISTING CONDITIONS**

- .1 Cutting and Patching: in accordance with Section 01 73 00 - Execution Requirements supplemented as specified herein.
- .2 Repair surfaces damaged during execution of Work.

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- .3 Turn over to Departmental Representative existing materials removed from Work not identified for re-use.

Part 2 Products

2.1 GENERAL

- .1 Control devices of each category to be of same type and manufacturer.
- .2 External trim materials to be corrosion resistant. Internal parts to be assembled in watertight, shockproof, vibration-proof, heat resistant.
- .3 Operating conditions: 0 - 32 degrees C with 10 - 90% RH (non-condensing) unless otherwise specified.
- .4 Terminations: use standard conduit box with slot screwdriver compression connector block unless otherwise specified.
- .5 Transmitters and sensors to be unaffected by external transmitters including walkie talkies.
- .6 Account for hysteresis, relaxation time, maximum and minimum limits in applications of sensors and controls.
- .7 Outdoor installations: use weatherproof construction in NEMA4 enclosures.
- .8 Devices installed in user occupied space not exceed Noise Criteria (NC) of 35. Noise generated by any device must not be detectable above space ambient conditions.
- .9 Range: including temperature, humidity, pressure, as indicated in I/O summary in Section 25 90 01 - EMCS: Site Requirements, Applications and System Sequences of Operation.

2.2 TEMPERATURE SENSORS

- .1 General: except for room sensors to be resistance or thermocouple type to following requirements:
 - .1 Thermocouples: limit to temperature range of 200degrees C and over.
 - .2 RTD's: 100 or 1000 ohm at 0degrees C (plus or minus 0.2 ohms) platinum element with strain minimizing construction, 3integral anchored lead wires. Coefficient of resistivity: 0.00385 ohms/ohm degrees C.
 - .3 Sensing element: hermetically sealed.
 - .4 Stem and tip construction: copper or type 304 stainless steel.
 - .5 Time constant response: less than 3 seconds to temperature change of 10 degrees C.
 - .6 Immersion wells: NPS 3/4, stainless steel spring loaded construction, with heat transfer compound compatible with sensor. Insertion length 100 150 mm as indicated.
- .2 Room temperature sensors and display wall modules.
 - .1 Temperature sensing and display wall module.
 - .1 LCD display to show space temperature ed and temperature setpoint.

- .2 Buttons for occupant selection of temperature setpoint and occupied/unoccupied mode.
- .3 Jack connection for plugging in laptop personal computer contractor supplied zone terminal unit, contractor supplied palm compatible handheld device for access to zone bus.
- .4 Integral thermistor sensing element 10,000 ohm at 24 degrees.
- .5 Accuracy 0.2 degrees C over range of 0 to 70 degrees C.
- .6 Stability 0.02 degrees C drift per year.
- .7 Separate mounting base for ease of installation.
- .2 Room temperature sensors.
 - .1 Wall mounting, in slotted type covers having brushed aluminum finish, with guard as indicated.
 - .2 Element 10-50mm long RTD with ceramic tube or equivalent protection or thermistor, 10,000 ohm, accuracy of plus or minus 0.2 degrees C.
- .3 Duct temperature sensors:
 - .1 General purpose duct type: suitable for insertion into ducts at various orientations, insertion length 460 mm or as indicated.
 - .2 Averaging duct type: incorporates numerous sensors inside assembly which are averaged to provide one reading. Minimum insertion length 6096 mm. Bend probe at field installation time to 100 mm radius at point along probe without degradation of performance.
- .4 Outdoor air temperature sensors:
 - .1 Outside air type: complete with probe length 100 - 150 mm long, non-corroding shield to minimize solar and wind effects, threaded fitting for mating to 13 mm conduit, weatherproof construction in NEMA 4 enclosure

2.3 TEMPERATURE TRANSMITTERS

- .1 Requirements:
 - .1 Input circuit: to accept 3-lead, 100 or 1000 ohm at 0 degrees C, platinum resistance detector type sensors.
 - .2 Power supply: 24 V DC into load of 575 ohms. Power supply effect less than 0.01 degrees C per volt change.
 - .3 Output signal: 4 - 20 mA into 500 ohm maximum load.
 - .4 Input and output short circuit and open circuit protection.
 - .5 Output variation: less than 0.2 % of full scale for supply voltage variation of plus or minus 10 %.
 - .6 Combined non-linearity, repeatability, hysteresis effects: not to exceed plus or minus 0.5 % of full scale output.
 - .7 Maximum current to 100 or 1000 ohm RTD sensor: not to exceed 25 mA.
 - .8 Integral zero and span adjustments.
 - .9 Temperature effects: not to exceed plus or minus 1.0 % of full scale/ 50degrees C.
 - .10 Long term output drift: not to exceed 0.25 % of full scale/ 6 months.

- .11 Transmitter ranges: select narrowest range to suit application from following:
 - .1 Minus 50 degrees C to plus 50 degrees C, plus or minus 0.5 degrees C.
 - .2 0 to 100 degrees C, plus or minus 0.5 degrees C.
 - .3 0 to 50 degrees C, plus or minus 0.25 degrees C.
 - .4 0 to 25 degrees C, plus or minus 0.1 degrees C.
 - .5 10 to 35 degrees C, plus or minus 0.25 degrees C.

2.4 HUMIDITY SENSORS

- .1 Room and Duct Requirements:
 - .1 Range: 5 - 90 % RH minimum.
 - .2 Operating temperature range: 0 - 60 degrees C.
 - .3 Absolute accuracy:
 - .1 Duct sensors: plus or minus 3 %.
 - .2 Room sensors: plus or minus 2 %.
 - .4 Sheath: stainless steel with integral shroud for specified operation in air streams of up to 10 m/s.
 - .5 Maximum sensor non-linearity: plus or minus 2% RH with defined curves.
 - .6 Room sensors: locate in air stream near RA grille wall mounted as indicated.
 - .7 Duct mounted sensors: locate so that sensing element is in air flow in duct.
- .2 Outdoor Humidity Requirements:
 - .1 Range: 0 - 100 % RH minimum.
 - .2 Operating temperature range: -40 - 50 degrees C.
 - .3 Absolute accuracy: plus or minus 2%.
 - .4 Temperature coefficient: plus or minus 0.03%RH/ degrees C over 0 to 50 degrees C.
 - .5 Must be unaffected by condensation or 100% saturation.
 - .6 No routine maintenance or calibration is required.

2.5 HUMIDITY TRANSMITTERS

- .1 Requirements:
 - .1 Input signal: from RH sensor.
 - .2 Output signal: 4 - 20 mA onto 500 ohm maximum load.
 - .3 Input and output short circuit and open circuit protection.
 - .4 Output variations: not to exceed 0.2 % of full scale output for supply voltage variations of plus or minus 10 %.
 - .5 Output linearity error: plus or minus 1.0% maximum of full scale output.
 - .6 Integral zero and span adjustment.
 - .7 Temperature effect: plus or minus 1.0 % full scale/ 6 months.
 - .8 Long term output drift: not to exceed 0.25 % of full scale output/ 6 months.

~~25 Jul~~ 01 Sep 2022**2.6 CARBON DIOXIDE SENSORS**

- .1 Measurement Range: 0-2000 ppm CO₂
- .2 Accuracy: +/- 50 ppm
- .3 Repeatability: +/- 20 ppm
- .4 Drift: +/- 20 ppm per year
- .5 Operating conditions: 0-50°C, 10-100% rH non-condensing
- .6 Temperature Dependence: 2ppm/°C
- .7 Pressure Dependence: 0.13% of reading per mm Hg
- .8 Dual Beam, Self Calibrating NDIR Detection

2.7 PRESSURE TRANSDUCERS

- .1 Requirements:
 - .1 Combined sensor and transmitter measuring pressure.
 - .1 Internal materials: suitable for continuous contact with industrial standard instrument air, compressed air, water, steam, as applicable.
 - .2 Output signal: 4 - 20 mA into 500 ohm maximum load.
 - .3 Output variations: less than 0.2 % full scale for supply voltage variations of plus or minus 10 %.
 - .4 Combined non-linearity, repeatability, and hysteresis effects: not to exceed plus or minus 0.5 % of full scale output over entire range.
 - .5 Temperature effects: not to exceed plus or minus 1.5 % full scale/ 50 degrees C.
 - .6 Over-pressure input protection to at least twice rated input pressure.
 - .7 Output short circuit and open circuit protection.
 - .8 Accuracy: plus or minus 1% of Full Scale.

2.8 DIFFERENTIAL PRESSURE TRANSMITTERS

- .1 Requirements:
 - .1 Internal materials: suitable for continuous contact with industrial standard instrument air, compressed air, water, steam, as applicable.
 - .2 Output signal: 4 - 20 mA into 500 ohm maximum load.
 - .3 Output variations: less than 0.2 % full scale for supply voltage variations of plus or minus 10 %.
 - .4 Combined non-linearity, repeatability, and hysteresis effects: not to exceed plus or minus 0.5 % of full scale output over entire range.
 - .5 Integral zero and span adjustment.
 - .6 Temperature effects: not to exceed plus or minus 1.5 % full scale/ 50 degrees C.
 - .7 Over-pressure input protection to at least twice rated input pressure.
 - .8 Output short circuit and open circuit protection.
 - .9 Unit to have 12.5 mm N.P.T. conduit connection. Enclosure to be integral part of unit.

2.9 STATIC PRESSURE SENSORS

.1 Requirements:

- .1 Multipoint element with self-averaging manifold.
 - .1 Maximum pressure loss: 160 Pa at 10 m/s. (Air stream manifold).
- .2 Accuracy: plus or minus 1 % of actual duct static pressure.

2.10 STATIC PRESSURE TRANSMITTERS

.1 Requirements:

- .1 Output signal: 4 - 20 mA linear into 500 ohm maximum load.
- .2 Calibrated span: not to exceed 150 % of duct static pressure at maximum flow.
- .3 Accuracy: 0.4 % of span.
- .4 Repeatability: within 0.5 % of output.
- .5 Linearity: within 1.5 % of span.
- .6 Deadband or hysteresis: 0.1% of span.
- .7 External exposed zero and span adjustment.
- .8 Unit to have 12.5 mm N.P.T. conduit connection. Enclosure to be integral part of unit

2.11 VELOCITY PRESSURE SENSORS

.1 Requirements:

- .1 Multipoint static and total pressure sensing element with self-averaging manifold with integral air equalizer and straightener section.
- .2 Maximum pressure loss: 37Pa at 1000 m/s.
- .3 Accuracy: plus or minus 1 % of actual duct velocity.

2.12 VELOCITY PRESSURE TRANSMITTERS

.1 Requirements:

- .1 Output signal: 4 - 20 mA linear into 500 ohm maximum load.
- .2 Calibrated span: not to exceed 125 % of duct velocity pressure at maximum flow.
- .3 Accuracy: 0.4 % of span.
- .4 Repeatability: within 0.1 % of output.
- .5 Linearity: within 0.5 % of span.
- .6 Deadband or hysteresis: 0.1% of span.
- .7 External exposed zero and span adjustment.
- .8 Unit to have 12.5 mm N.P.T. conduit connection. Enclosure to be integral part of unit.

2.13 LIQUID FLOW METERS

.1 Requirements:

- .1 Pressure rating: as specified in I/O summaries.
- .2 Temperature rating: as specified in I/O summaries.

- .3 Repeatability: plus or minus 0.2 %.
- .4 Accuracy and linearity: plus or minus 1.0 %.
- .5 Flow rangeability: at least 10:1.
- .6 Body material:
- .7 Ends:
 - .1 NPS 2 and under: screwed.
 - .2 NPS 2.1/2 and over: flanged.

2.14 PRESSURE AND DIFFERENTIAL PRESSURE SWITCHES

- .1 Requirements:
 - .1 Internal materials: suitable for continuous contact with compressed air, water, steam, etc., as applicable.
 - .2 Adjustable setpoint and differential.
 - .3 Switch: snap action type, rated at 120V, 15 amps AC or 24 V DC.
 - .4 Switch assembly: to operate automatically and reset automatically when conditions return to normal. Over-pressure input protection to at least twice rated input pressure.
 - .5 Accuracy: within 2% repetitive switching.
 - .6 Provide switches with isolation valve and snubber, where code allows, between sensor and pressure source.
 - .7 Switches on steam and high temperature hot water service: provide pigtail syphon.

2.15 TEMPERATURE SWITCHES

- .1 Requirements:
 - .1 Operate automatically. Reset automatically, except as follows:
 - .1 Low temperature detection: manual reset.
 - .2 High temperature detection: manual reset.
 - .2 Adjustable setpoint and differential.
 - .3 Accuracy: plus or minus 1 degrees C.
 - .4 Snap action rating: 120V, 15 amps or 24V DC as required. Switch to be DPST for hardwire and EMCS connections.
 - .5 Type as follows:
 - .1 Room: for wall mounting on standard electrical box with without protective guard as indicated.
 - .2 Duct, general purpose: insertion length = 460 mm.
 - .3 Thermowell: stainless steel, with compression fitting for NPS 3/4 thermowell. Immersion length: 100 mm.
 - .4 Low temperature detection: continuous element with 6096 mm insertion length, duct mounting, to detect coldest temperature in any 30 mm length.
 - .5 Strap-on: with helical screw stainless steel clamp.

~~25 Jul~~ 01 Sep 2022**2.16 SUMP LEVEL SWITCHES**

- .1 Requirements:
 - .1 Liquid level activated switch sealed in waterproof and shockproof enclosure.
 - .2 Complete with float, flexible cord, weight. Instrument casing to be suitable for immersion in measured liquid.
 - .3 N.O./N.C. Contacts rated at 15 amps at 120V AC. CSA approval for up to 250 volt 10 amps AC

2.17 ELECTROMECHANICAL RELAYS

- .1 Requirements:
 - .1 Double voltage, DPDT, plug-in type with termination base.
 - .2 Coils: rated for 120V AC, 24V DC. Other voltage: provide transformer.
 - .3 Contacts: rated at 5 amps at 120 V AC.
 - .4 Relay to have visual status indication

2.18 SOLID STATE RELAYS

- .1 General:
 - .1 Relays to be socket or rail mounted.
 - .2 Relays to have LED Indicator
 - .3 Input and output Barrier Strips to accept 14 to 28 AWG wire.
 - .4 Operating temperature range to be -20 degrees C to 70 degrees C.
 - .5 Relays to be CSA Certified
 - .6 Input/output Isolation Voltage to be 4000 VAC at 25 degrees C for 1 second maximum duration.
 - .7 Operational frequency range, 45 to 65 HZ.
- .2 Input:
 - .1 Control voltage, 3 to 32 VDC.
 - .2 Drop out voltage, 1.2 VDC.
 - .3 Maximum input current to match AO (Analog Output) board.
- .3 Output.
 - .1 AC or DC Output Model to suit application.

2.19 CURRENT TRANSDUCERS

- .1 Purpose: combined sensor/transducer, to measure line current and produce proportional signal in one of following ranges:
 - .1 4-20 mA DC.
 - .2 0-1 volt DC.
 - .3 0-10 volts DC.
 - .4 0-20 volts DC.
- .2 Frequency insensitive from 10 - 80 hz.

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- .3 Accuracy to 0.5% full scale.
- .4 Zero and span adjustments. Field adjustable range to suit motor applications.
- .5 Adjustable mounting bracket to allow for secure/safe mounting inside MCC.

2.20 CURRENT SENSING RELAYS

- .1 Requirements:
 - .1 Suitable to detect belt loss or motor failure.
 - .2 Trip point adjustment, output status LED.
 - .3 Split core for easy mounting.
 - .4 Induced sensor power.
 - .5 Relay contacts: capable of handling 0.5 amps at 30 VAC / DC. Output to be NO solid state.
 - .6 Suitable for single or 3 phase monitoring. For 3-Phase applications: provide for discrimination between phases.
 - .7 Adjustable latch level.

2.21 CONTROL DAMPERS

- .1 Construction: blades, 152 mm wide, 1219 mm long, maximum. Modular maximum size, 1219 mm wide x 1219 mm high. Three or more sections to be operated by jack shafts.
- .2 Materials:
 - .1 Frame: 2.03 mm minimum thickness extruded aluminum. For outdoor air and exhaust air applications, frames to be insulated.
 - .2 Blades: extruded aluminum. For outdoor air/exhaust air applications, blades to be internally insulated.
 - .3 Bearings: maintenance free, synthetic type of material.
 - .4 Linkage and shafts: aluminum
 - .5 Seals: synthetic type, mechanically locked into blade edges.
 - .1 Frame seals: synthetic type, mechanically locked into frame sides.
- .3 Performance: minimum damper leakage meet or exceed AMCA Standard 500-D ratings.
 - .1 Size/Capacity: refer to damper schedule
 - .2 25 L/s/m² maximum allowable leakage against 1000 Pa static pressure for outdoor air and exhaust air applications.
 - .3 Temperature range: minus 40degrees C to plus 100 degrees C.
- .4 Arrangements: dampers mixing warm and cold air to be parallel blade, mounted at right angles to each other, with blades opening to mix air stream.
- .5 Jack shafts:
 - .1 25 mm diameter solid shaft, constructed of corrosion resistant metal complete with required number of pillow block bearings to support jack shaft and operate dampers throughout their range.
 - .2 Include corrosion resistant connecting hardware to accommodate connection to damper actuating device.

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- .3 Install using manufacturers installation guidelines.
- .4 Use same manufacturer as damper sections.

2.22 ELECTRONIC CONTROL DAMPER ACTUATORS

- .1 Requirements:
 - .1 Direct mount proportional type as indicated.
 - .2 Spring return for "fail-safe" in Normally Open or Normally Closed position as indicated.
 - .3 Operator: size to control dampers against maximum pressure and dynamic closing/opening pressure, whichever is greater.
 - .4 Power requirements: 5 VA maximum at 24 V AC.
 - .5 Operating range: 0 - 10 V DC or 4 - 20 mA DC.
 - .6 For VAV box applications floating control type actuators may be used.
 - .7 Damper actuator to drive damper from full open to full closed in less than 120 seconds.

2.23 CONTROL VALVES

- .1 Body: globe style, characterized ball.
 - .1 Flow characteristic as indicated on control valve schedule: linear, equal percentage, quick opening.
 - .2 Flow factor (KV) as indicated on control valve schedule: CV in imperial units.
 - .3 As indicated.
 - .4 As indicated.
 - .5 Leakage rate ANSI class IV, 0.01% of full open valve capacity
 - .6 Packing easily replaceable.
 - .7 Stem, stainless steel.
 - .8 Plug and seat, stainless steel, brass, bronze.
 - .9 Disc, replaceable, material to suit application.
 - .10 NPS 2 and under:
 - .1 Screwed National Pipe Thread (NPT) tapered female connections.
 - .2 Valves to ANSI Class 250, valves to bear ANSI mark
 - .3 Rangeability 50:1 minimum.
 - .11 NPS 2½ and larger:
 - .1 Flanged connections.
 - .2 Valves to ANSI Class 150 or 250 as indicated, valves to bear ANSI mark
 - .3 Rangeability 100:1 minimum.
- .2 Butterfly Valves NPS 2 and larger:
 - .1 Body: for chilled water ANSI Class 150 cast iron lugged body and wafer body installed in locations as indicated. For steam and heating water ANSI Class 150 carbon steel lugged body and wafer body.
 - .2 End connections to suit flanges that are ANSI Class 150.

- .3 Extended stem neck to provide adequate clearance for flanges and insulation.
 - .4 Pressure limit: bubble tight sealing to 170 kilopascals.
 - .5 Disc/vane: 316 stainless steel, aluminum bronze to ASTM B148
 - .6 Seat: for service on chilled water PTFE (polytetrafluoroethylene), EPDM (ethylene propylene diene monomer). For service on steam and heating water PTFE, RTFE (reinforced PTFE).
 - .7 Stem: 316 stainless steel.
 - .8 Flow factor (KV) as indicated on control valve schedule: CV in imperial units.
 - .9 Flow characteristic linear.
 - .10 Maximum flow requirement as indicated on control valve schedule.
 - .11 Maximum pressure drop as indicated on control valve schedule: pressure drop not to exceed one half of inlet pressure.
 - .12 As indicated.
 - .13 Valves are to be provided complete with mounting plate for installation of actuators.
- .3 Pressure independent control valves (PICV)
- .1 Up to 50mm: forged brass body rated at 2758 kPa, chrome plated brass ball and stem, female NPT union ends, dual EPDM lubricated O-rings and a brass or TEFZEL characterizing disc.
 - .2 65mm to 150mm: GG25 cast iron body to ANSI Class 125, standard class B, stainless steel ball and blowout proof stem, flange to match ANSI 125 with a dual EPDM O-ring packing design, PTFE seats, and a stainless steel flow characterizing disc.
 - .3 Accuracy: The control valves shall accurately control the flow from 0 to 100% full rated flow with an operating pressure differential range of 34.5 kPa] to 345 kPa differential across the valve with a valve body accuracy of +/- 5% variance due to differential pressure fluctuation or +/- 10% total assembly error incorporating differential pressure fluctuation, manufacturing tolerances and valve hysteresis.
 - .4 Flow characteristics: equal percentage characteristics.
 - .5 All actuators shall be capable of being electronically programmed in the field by the use of external computer software or a dedicated handheld tool for the adjustment of flow. Programming using actuator mounted switches or multi-turn actuators are not acceptable. Actuators for 3-wire floating (tri-state) and for two-position 12mm to 25mm pressure independent control valves shall fail in place and have a mechanical device inserted between the valve and the actuator for the adjustment of flow.
 - .6 Coil optimization: for valves 65mm to 150mm shall be accomplished by utilizing a pressure independent control valve assembly; two temperature sensors providing feedback of coil inlet and coil outlet water temperatures; and a flow meter provides analog flow feedback. Software shall control the valve to avoid the coil differential temperature from falling below a programmed setpoint. Independent trend logs data shall be available by means of BACnet MS/TP trending data to include, but not be limited to, inlet and outlet coil water

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temperatures, valve position, absolute flow, absolute valve position, absolute power and heating/cooling energy in kW.

- .7 The valve manufacturer shall provide a published commissioning procedure following the guidelines of a registered balancing organization.
- .8 The control valve shall require no maintenance and shall not include replaceable cartridges.

2.24 ELECTRONIC / ELECTRIC VALVE ACTUATORS

.1 Requirements:

- .1 Construction: steel, cast iron, aluminum.
- .2 Control signal: 0-10V DC or 4-20 mA DC.
- .3 Positioning time: to suit application. 90 sec maximum.
- .4 Fail to normal position as indicated.
- .5 Scale or dial indication of actual control valve position.
- .6 Size actuator to meet requirements and performance of control valve specifications.
- .7 For interior and perimeter terminal heating and cooling applications floating control actuators are acceptable.
- .8 Minimum shut-off pressure: close against a minimum differential pressure rating of 275 kPa.

2.25 CARBON MONOXIDE AND NITROGEN DIOXIDE SENSORS AND DETECTION SYSTEM

.1 Wall-mounted gas detector for monitoring carbon monoxide (CO) and nitrogen dioxide (NO₂)

- .1 Output signal: 4 - 20 mA
- .2 Electrochemical cell
- .3 Response time: T₉₀ < 50 seconds
- .4 Detection range:
 - .1 Carbon monoxide: 0-250ppm with 1ppm resolution
 - .2 Nitrogen dioxide: 0-50ppm with 0.1ppm resolution
- .5 Accuracy: ± 3% of full scale @ 25°C
- .6 Operating temperature: -20 to 50°C
- .7 LCD Display
- .8 Audible alarm: >85 dBA at 3 m
- .9 2 DPDT output relays

.2 Wall-mounted controller for centralized gas detection monitoring with real-time gas reading

- .1 BACnet/IP interface, BTL listed
- .2 Four fully programmable alarm levels
- .3 Operating temperature: -20 to 50°C

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- .1 The refrigerant monitoring system shall be comprised of:
 - .1 One main control/ alarm panel
 - .2 Two remote alarm panels, mounted at each access door to the mechanical room.
 - .3 Two refrigerant sensors mounted close to the chillers and connected to the main control panel
- .2 Alarm panels shall be equipped with:
 - .1 Visual flashing amber beacon
 - .2 Audible alarm: >85 dBA at 3 m
 - .3 Touch screen display
- .3 The monitoring panel shall allow for two alarm settings:
 - .1 A low level alarm shall warn (flashing screen) that refrigerant gas has been detected but the room is still safe. The screen shall display the gas ppm concentration.
 - .2 A high level alarm shall automatically activate audio / visual alarms.
- .4 The refrigerant sensors shall have the following features:
 - .1 Use non-dispersive infrared technology to selectively target the refrigerant gas.
 - .2 Output signal proportional to the refrigerant ppm concentration.
 - .3 Life expectancy of 10 years.
 - .4 Calibrated to detect refrigerant levels equal to or less than the TLV-TWA for the refrigerant used.
- .5 Alarm system to be activated when the refrigerant concentration in the mechanical room equals the TLV-TWA for the refrigerant used (1000ppm for R410A).

2.27 Airflow measuring stations

- .1 Airflow measuring stations shall be designed and built to comply with, and provide results in accordance with accepted practice as defined for system testing in the ASHRAE Handbook of Fundamentals, as well as the Industrial Ventilation Handbook.
- .2 Where required, incorporate air straightening to ensure an accurate flow profile.
- .3 Utilize total pressure and static pressure probes and incorporate averaging manifolds, internal piping, and connections for an external differential pressure/flow transmitter. Hot wire anemometer technology is also acceptable
- .4 Airflow stations incorporated into the flow channels of silencers must be a series of probes inserted and tubed together according to design criteria, to provide an acceptable airflow profile.
- .5 Performance:
 - .1 Accuracy, measured velocity pressure converted to airflow L/s: $\pm 2\%$ of the full scale
 - .2 Velocity range: 3.5 to 20 m/s
 - .3 Maximum airflow resistance: 0.6 times the velocity head

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- .4 Maximum operating temperatures: 121°C
- .6 Construction:
 - .1 Casing: heavy gauge galvanized steel construction
 - .2 Duct to duct mounting flanges
 - .3 Aluminum pitot traverse tubes
 - .4 Inlet honeycomb air straightening section minimum free area: 97%.

2.28 PANELS

- .1 Wall mounted enamelled steel cabinets with hinged and key-locked front door.
- .2 Multiple panels as required to handle requirements with additional space to accommodate 25% additional capacity as required by Departmental Representative without adding additional cabinets.
- .3 Panels to be lockable with same key.

2.29 WIRING

- .1 In accordance with Section ~~26-27-26—Wiring Devices~~ **26 05 21 Wires and Cables (0-1000V)**.
- .2 ~~For wiring under 70 volts use FT6 rated wiring where wiring is not run in conduit. Other cases use FT4 wiring.~~ **All control wiring to be run in conduits.**
- .3 Wiring must be continuous without joints.
- .4 Sizes:
 - .1 Field wiring to digital device: #18AWG 20AWG stranded twisted pair.
 - .2 Analog input and output: shielded #18 minimum solid copper #20 minimum stranded twisted pair.

Part 3 Execution

3.1 INSTALLATION

- .1 Install equipment, components so that manufacturer's and CSA labels are visible and legible after commissioning is complete
- .2 Install field control devices in accordance with manufacturers recommended methods, procedures and instructions.
- .3 Temperature transmitters, humidity transmitters, , controllers, relays: install in NEMA I enclosure or as required for specific applications. Provide for electrolytic isolation in cases when dissimilar metals make contact.
- .4 Support field-mounted panels, transmitters and sensors on pipe stands or channel brackets.
- .5 Fire stopping: provide space for fire stopping in accordance with Section 07 84 00 - Fire stopping. Maintain the fire-resistance rating integrity of the fire separation.

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- .6 Electrical:
 - .1 Complete installation in accordance with Section 26 05 00 - Common Work Results for Electrical.
 - .2 Modify existing starters to provide for EMCS as indicated in I/O Summaries and as indicated.
 - .3 Refer to electrical control schematics included as part of control design schematics in Section 25 90 01 - EMCS: Site Requirements Applications and Systems Sequences of Operation on drawings. Trace existing control wiring installation and provide updated wiring schematics including additions, deletions to control circuits for review by Departmental Representative before beginning Work.
 - .4 Terminate wires with screw terminal type connectors suitable for wire size, and number of terminations.
 - .5 Install communication wiring in conduit.
 - .1 Provide complete conduit system to link Building Controllers, field panels and OWS(s).
 - .2 Conduit sizes to suit wiring requirements and to allow for future expansion capabilities specified for systems.
 - .3 Maximum conduit fill not to exceed 40%.
 - .4 Design drawings do not show conduit layout.
 - .6 Do not run exposed conduits in normally occupied spaces unless otherwise indicated or unless impossible to do otherwise. Departmental Representative to review before starting Work. Wiring in mechanical rooms, wiring in service rooms and exposed wiring must be in conduit.
- .7 VAV Terminal Units: supply, install and adjust as required.
 - .1 Air probe, actuator and associated vav controls.
 - .2 Tubing from air probe to dp sensor as well as installation and adjustment of air flow sensors and actuators.
 - .3 Co-ordinate air flow adjustments with balancing trade.

3.2 TEMPERATURE AND HUMIDITY SENSORS

- .1 Stabilize to ensure minimum field adjustments or calibrations.
- .2 Readily accessible and adaptable to each type of application to allow for quick easy replacement and servicing without special tools or skills.
- .3 Outdoor installation:
 - .1 Protect from solar radiation and wind effects by non-corroding shields.
 - .2 Install in NEMA 4 enclosures
- .4 Duct installations:
 - .1 Do not mount in dead air space.
 - .2 Locate within sensor vibration and velocity limits.
 - .3 Securely mount extended surface sensor used to sense average temperature.

- .4 Thermally isolate elements from brackets and supports to respond to air temperature only.
- .5 Support sensor element separately from coils, filter racks.
- .5 Averaging duct type temperature sensors.
 - .1 Install averaging element horizontally across the ductwork starting 305 mm from top of ductwork. Each additional horizontal run to be no more than 305 mm from one above it. Continue until complete cross sectional area of ductwork is covered. Use multiple sensors where single sensor does not meet required coverage.
 - .2 Wire multiple sensors in series for low temperature protection applications.
 - .3 Wire multiple sensors separately for temperature measurement.
 - .4 Use software averaging algorithm to derive overall average for control purposes.
- .6 Thermowells: install for piping installations.
 - .1 Locate well in elbow where pipe diameter is less than well insertion length.
 - .2 Thermowell to restrict flow by less than 30%.
 - .3 Use thermal conducting paste inside wells.

3.3 PANELS

- .1 Arrange for conduit and tubing entry from top, bottom or either side.
- .2 Wiring and tubing within panels: locate in trays or individually clipped to back of panel.
- .3 Identify wiring and conduit clearly.

3.4 MAGNEHELIC PRESSURE INDICATORS

- .1 Install adjacent to fan system static pressure sensor and duct system velocity pressure sensor as reviewed by Departmental Representative.
- .2 Locations: as specified.

3.5 PRESSURE AND DIFFERENTIAL PRESSURE SWITCHES AND SENSORS

- .1 Install isolation valve and snubber on sensors between sensor and pressure source where code allows.
 - .1 Protect sensing elements on steam and high temperature hot water service with pigtail syphon between valve and sensor.

3.6 IDENTIFICATION

- .1 Identify field devices in accordance with Section 25 05 54 - EMCS: Identification.

3.7 AIR FLOW MEASURING STATIONS

- .1 Install airflow measuring stations per manufacturer's recommendations in an unobstructed straight length of duct except the stations specifically designed for installation in a fan inlet. For installations in fan inlets, provide on both inlets of double inlet fans and provide inlet cone adapter as recommended by the manufacturer.
- .2 Protect air flow measuring assembly until cleaning of ducts is completed.

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3.8 TESTING AND COMMISSIONING

- .1 Calibrate and test field devices for accuracy and performance in accordance with Section 25 01 11 - EMCS: Start-up, Verification and Commissioning.

END OF SECTION

Part 1 General**1.1 RELATED REQUIREMENTS**

- .1 Section 26 05 00 – Common Work Results for Electrical.

1.2 REFERENCE STANDARDS

- .1 Health Canada / Workplace Hazardous Materials Information System 2015 (WHMIS)
 - .1 Safety Data Sheets (SDS).
- .2 Underwriters Laboratories of Canada (ULC)
 - .1 CAN/ULC-S301-18, Standard for Signal Receiving Centre Burglar Alarm System and Operations
 - .2 CAN/ULC-S302-14, Standard for Installation and Classification of Burglar Alarm Systems.
 - .3 CAN/ULC-S304-16, Standard for Control Units, Accessories and Receiving Equipment for Intrusion Alarm Systems..
 - .4 ULC-S316 (R2019), Standard for Performance of Video Surveillance Systems. ULC-S318-96(R2016), Standard for Power Supplies for Burglar Alarm Systems.
 - .5 ULC-C634-2016, Guide for the Investigation of Connectors and Switches for Use with Burglar Alarm Systems.
- .3 Underwriters' Laboratories (UL)
 - .1 ANSI/UL 294, Edition 7-2018 (ANSI 2018), Access Control System Units.
 - .2 ANSI/UL 603, Edition 5-08 (ANSI 2013), Power Supplies for Use with Burglar Alarm Systems.
 - .3 ANSI/DOD/UL 681, Edition 15-2014 (ANSI 2020), Installation and Classification of Burglar and Holdup Alarm Systems.
 - .4 ANSI/UL 827, Edition 8-2014 (ANSI 2021), Central-Station Alarm Services.
 - .5 ANSI/UL 1076, Edition 6-2018 (ANSI 2021), Safety for Proprietary Burglar Alarm Units and Systems.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 26 05 00 Common Work Results for Electrical.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for access controls and equipment and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Submit two (2) copies of WHMIS SDS in accordance with Section 26 05 00 Common Work Results for Electrical.
 - .3 Submit:
 - .1 Functional description of equipment.

- .2 Complete equipment list.
- .3 Technical data for all devices.
- .4 Device location plans and cable lists.
- .5 Devices mounting location detail drawings.
- .6 Typical devices connection detail drawings.
- .1 Video camera surveillance chart.
- .2 Video interconnection detail drawings.
- .3 Engineered Shop Drawings:
 - .1 Submit shop drawings stamped and signed by professional engineer registered or licensed in Prince Edward Island, Canada.
 - .2 Shop drawings to indicate project layout, including details.
 - .1 Shop drawings to indicate, location of all devices, mounting heights, wiring diagrams, mounting details and identification labeling scheme.
 - .2 Submit zone layout drawing indicating number and location of zones and areas covered.
- .4 Samples:
 - .1 Submit for review and acceptance of each unit.
 - .2 Samples will be returned for inclusion into work.
 - .3 Submit one (1) sample of each component proposed for inclusion into system. Components will be returned for incorporation into work.
- .5 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.
 - .1 Submit ULC/UL Product Safety Certificates.
 - .2 Submit verification Certificate that service company is ULC/UL List alarm service company.
 - .3 Submit verification Certificate that monitoring facility is ULC/UL "Listed central station".
 - .4 Submit verification Certificate that security access system is "Certified alarm system".
- .6 Test and Evaluation Reports:
 - .1 Submit certified test reports from approved independent testing laboratories indicating compliance with specifications for specified performance characteristics and physical properties.
- .7 Manufacturer's Instructions: submit manufacturer's installation instructions.
- .8 Manufacturer's Field Reports: submit manufacturer's written reports within three (3) days of review, verifying compliance of Work, as described in PART 3 - FIELD QUALITY CONTROL.

1.4 CLOSEOUT SUBMITTALS

- .1 Submit in accordance with Section 26 05 00 Common Work Results for Electrical.

.2 Operation and Maintenance Data: submit operation and maintenance data for access controls and equipment for incorporation into manual.

.1 Include:

- .1 System configuration and equipment physical layout.
- .2 Functional description of equipment.
- .3 Instructions of operation of equipment.
- .4 Illustrations and diagrams to supplement procedures.
- .5 Operation instructions provided by manufacturer.
- .6 Cleaning instructions.

1.5 DELIVERY, STORAGE AND HANDLING

.1 Deliver, store and handle materials in accordance with Section 26 05 00 Common Work Results for Electrical and with manufacturer's written instructions.

1.6 WARRANTY AND SERVICE CONTRACTS

.1 Provide a warranty for all materials and workmanship including all active and passive equipment, materials and software to be free of defects for a minimum period of one (1) year from time of acceptance by the Department Representative. Manufacturer's standard warranty document to be executed by authorized company official.

.2 Provide and include for one (1) year service and technical support for all software and devices making part of this work, including but not limited to cameras, card readers, video surveillance software, storage servers, access control software and equipment, security LAN switches, emergency stations, glass break detectors, monitors, camera controllers, etc.

.3 Provide and include for all systems software licences.

.4 Repair response times for problems defined as routine to be addressed and corrected within twenty-four (24) hours, including statutory holidays and weekends.

.5 Repair response times for problems defined as major to be addressed and corrected within four (4) hours, including statutory holidays and weekends.

1.7 ACCEPTABLE MANUFACTURER

.1 The security management system (SMS) shall be the Kantech EntraPass Global Edition.

Part 2 Products

2.1 SYSTEM DESCRIPTION

.1 Provide a complete, fully integrated and operable access control, intrusion detection and video surveillance system designed as a centralized data communication and processing security system including the following features:

- .1 Access Control and Video Assessment System (ACS/VAS) system to control personnel access, provide real time intrusion detection alarm monitoring and

alarm driven video surveillance for the designated building and operations. The system includes the following:

- .1 Door locking hardware to enable proximity card reader access at designated doors. The doors designated with proximity card reader access also allow manual unlocking using the master key system.
 - .2 Interior glass break detection devices to provide alarm coverage.
 - .3 Seamless integration of video surveillance systems that provides alarm driven assessment for the intrusion detection equipment.
 - .4 Seamless integration of a digital video management system to allow system operators to control and maintain the security of the facilities from multiple designated workstations.
 - .5 Control, signal, power distribution wiring as required for the security equipment with terminations.
 - .6 Commissioning and testing of the systems and equipment installed as required to meet manufacturers' specifications and documented installation procedures, and to the satisfaction of the Department Representative.
 - .7 Training of the personnel to fully operate and perform routine maintenance on the systems and equipment installed.
- .2 Integrated, fully operable CCTV system designed with a centralized data communication and video processing/storage system including the following features:
- .1 IP-based cameras.
 - .2 High quality and high resolution interior fixed cameras with Day/Night capability.
 - .3 Camera hardware supports various video compression methods including MPEG-4 and H.264.
 - .4 Video recording solution complete with seven (7) days recording storage with back up storage on video recorder server.
 - .5 High performance video workstations complete with 24" monitors.
 - .6 Main equipment Rack for Network Video Recorder (NVR), monitor, keyboard, UTP transmission and network switches.
- .3 LAN networking equipment components for a complete solution:
- .1 Security UTP transmission and network switches for integration of CCTV cameras and Access Control.
 - .2 Security backbone fiber optic cables to create a security network in the building independent of the LAN network.
- .4 All devices within this Section must adhere to the National Defence Authorization Act (NDAA).**
- .5 All system components shall be compatible with the Kantech EntraPass system.**
- .6 The system installer must be Kantech Global certified.**

2.2 DOOR HARDWARE

- .1 Division 08 is responsible for supply and installation all devices mounted in the door and frames, including but not limited to electric strikes, door contacts, door holders, motorized doors controller (including power supply and push buttons).
- .2 Provide all conduit, device boxes, back boxes, wiring and wiring termination at each device being provided at the door by the door hardware trades, including wiring and conduit between motorized door controller and motorized door push buttons. Coordinate with Department Representative and door hardware trades exact requirements to provide a complete functioning installation and clear division of responsibilities.
- .3 Coordinate and provide wiring in accordance with the system manufacturers recommendations and applicable sections of Division 26.

2.3 ACCESS CONTROL AND ALARM MONITORING SYSTEM

- .1 General System Requirements:
 - .1 Provide a modular, networked access control and alarm monitoring system, comprised of proven commercial off the shelf components, capable of handling alarm monitoring, video imaging, badging, paging integration, CCTV integration, interactive guard tour, mapping, visitor management, email notification, third party monitoring, BAS integration and asset management. The system to allow easy expansion or modification of inputs, outputs and remote stations.
 - .2 The system control at the central computer location to be able to utilize a single software program control and provide full integration of all components. Reconfiguration to be accomplished online through system programming, without hardware changes.
 - .3 The Access Control Software system to utilize Microsoft SQL Server for data storage and be written expressly for Microsoft SQL Server **Sybase embedded SQL server**.
 - .4 The system capability to be networked via a LAN/WAN connection utilizing industry standard TCP/IP communication protocol, and encryption via the TCP/IP connection.
 - .5 The system to incorporate the use of bi-directional 485 communications and/or Class "A" TCP/IP redundant connections for redundancy and reliability.
 - .6 The system to incorporate "**High Availability**" Communications so that multiple communication paths are available to all controllers. High availability shall be defined as, "~~an existing alternate controller shall take over communications in the event the main controller fails. The controller must be located in a separate location to the first.~~" **single path of communication**.
 - .7 The system to support manual and automatic responses to alarms entering the system with alarm capable of initiating a number of different actions, such as camera switching, activation of remote devices and door control.
 - .8 The system to provide unlimited levels of emergency codes to allow the system to operate in different security levels depending on local threat level and building locks down.

- .9 The system to provide both supervised and non-supervised alarm point monitoring. Upon recognition of an alarm, the system to be capable of switching CCTV cameras and automatically creating a popup window for video for the associated alarm. The system shall be capable of arming or disarming alarm points both manually and automatically, by time of day, and by day of week.
 - .10 Access control functions to include validation based on time of day, day of week, holiday scheduling, site code verification, automatic or manual retrieval of card/tag holder photographs, and access validation based on positive verification of card, card/PIN, card and video.
 - .11 The system programming to be user friendly, menu drive with online 'Help', and capable of being accomplished by personnel with no prior computer experience.
 - .12 After installation, the system to allow performing basic hardware configuration changes. These hardware configuration changes to include, but not be limited to, door open time, door contact shunt time, point and reader names, when and where a card/ holder is valid, and the ability to add or modify card databases as desired without the services of the Manufacturer's Representative.
 - .13 Equipment repair to be able to be accomplished on site, by module replacement, utilizing spare components.
 - .14 All control components to include the ability to download operating parameters to any control panel, thus allowing the control panel to provide full operating functions independent of any other system component.
 - .15 The system to provide seamless integration of multiple manufacturers of DVR's and NVR's at the same time, and with ~~building control systems (BAS), life safety systems, remote paging and email systems~~ **fire alarm system**.
 - ~~.16 The system shall provide seamless integration with external building control systems (BAS), personal safety systems, remote paging and email systems.~~
 - ~~.17.16~~ All system events, operator actions and maintenance information to be stored on the computer hard disk to maintain a permanent record of system activity with manual and automatic back-up of set-up and system events to either local removable media (optical/magnetic) or remote network resource.
 - ~~.18.17~~ All workstations to be configurable to act as Alarm monitoring centre for the system, all alarms to be configurable by schedule and workstations with ability to acknowledge and clear alarms as a two-step process.
 - ~~.19.18~~ All workstations to have the ability to define alarm routing with an unlimited number of Routing levels available to the system.
- .2 Interactive Mapping and Graphics:
- .1 Supporting an unlimited number of user programmable colour graphic map displays capable of showing the floor plan, location of alarm device, and alarm instructions.
 - .2 Floor plans to be created in an approved format and capable of being imported from other systems.
 - .3 All graphic maps to be displayed on the single CPU monitor.
 - .4 Maps to be interactive with dynamic real time status so that the operator can control all device functions from the map.

- .3 Information Storage:
 - .1 Ability to automatically store onto hard disk all programmed information and transactional history.
- .4 Information Backup/Retrieval:
 - .1 The CPU to be capable of transferring all programmed data and transactional history to thumb drive or any logical disk drive and be restorable from disk in case of system hardware failure.
- .5 Communication Rates:
 - .1 Bi-directional communications and communicate up to 2.5mb/s.
- .6 Printers:
 - .1 All system printers configured under and supported by the Windows ® operating system.
- .7 Pointing Device:
 - .1 Configured under and supported by the Windows ® operating system.
- .8 Communication Ports:
 - .1 Unlimited number of either serial or TCP/IP ports.
- .9 Workstations:
 - .1 The system to support an unlimited number of active remote workstations. These stations to be capable of monitoring alarms and changing the database and retrieving transaction records in real time without affecting the other stations.
- .10 Networking:
 - .1 Standard Windows ® networking software.
- .11 Database:
 - .1 Microsoft SQL Server.
- .12 Software Capacities
 - .1 System software and language development software to be industry accepted, and of a type widely used in commercial systems, written in a standard, industry accepted language. All System functions to be accessible via Windows ® operating systems compliant menu accessed screens.
 - .2 The system software to include the following features and be configured as a minimum:
 - ~~.1 Unlimited reader expansion~~
 - ~~.2 Unlimited card holders in software~~
 - ~~.3 Unlimited simultaneous client PCs~~
 - ~~.4 Unlimited time zones~~
 - ~~.5 365 user definable holidays~~
 - ~~.6 Unlimited Access levels~~

.7	Access levels for each card/tag holder
.8	Unlimited alarm input points
.9	Unlimited output control points
.10	Unlimited operator passwords with definable privilege levels
.11	Audible alarm annunciation at the CPU
.12	Unlimited colour graphic maps displayed on the CPU monitor
.13	TCP/IP or RS232 interface capability to a CCTV system, which provides automatic, alarm actuated camera switching
.14	True 32/64 bit operation
.15	Operator activation/cancellation dates
.16	Employee activation/cancellation dates
.17	Optional Video Imaging/Badging & bar code imprinting.
.1	128 Workstations
.2	200 Concurrent Web/mobile
.3	128 Redundancy Servers
.4	2 Redundant gateways per Multi-Site Gateway.
.5	999 DVR/NVR recorders, options required. Forty is the default.
.6	128 Global Gateways, KT-NCC
.7	40 Multi-Site Gateways (or using dual gateway).
.8	1,024 Door controllers per Global Gateway.
.9	2,048 Connections per Multi-Site Gateway (max: 10,000 doors).
.10	10, 000 Door controllers per Multi-Site Gateway.
.11	10, 000 Readers per Multi-Site Gateway.
.12	100, 000 Monitored points per Multi-Site Gateway.
.13	100, 000 Control relays per Multi-Site Gateway.
.14	128 Door controllers per KT-NCC (32 per local site – 8 TCP/IP per site).
.15	1,024 Elevator controllers per Global Gateway.
.16	4096 Card readers and/or keypads and/or elevator cabs of 64 floors each per Global Gateway.
.17	69,632 Card readers and/or keypads and/or elevator cabs of 64 floors each per Multi-Site Gateway.
.18	256 Card readers and/or keypads per KT-NCC (128 x 2) (512 if using KT-400).
.19	100,000 Access cards per Global Gateway.
.20	Unlimited Access cards
.21	Unlimited Card families or site codes.
.22	56,000 Cards per KT-NCC
.23	262,144 Alarm points monitored by Global Gateway.

.24 262,144 Control relays per Global Gateway.

.25 2 Simultaneous user languages

- .13 System Administrators abilities as follows:
- .1 Changing station settings.
 - .2 Establishing user-definable Station Names.
 - .3 Provided with Station Status dialog to display a list of stations and their on-line/offline status, along with the names of the logged-on operators.
 - .4 Report Printers: Reports as requested by the operators are sent to printers that may reside anywhere on the network.
- .14 Alarm Window Description:
- .1 The system to facilitate the processing of alerts by using a pop-up alarm window with list of alarms, time of alarm, response time, programmable instruction messages and history of alarms.
- .15 Bulk Acknowledgment of Alarms:
- .1 The system to provide a means to bulk-acknowledge alarms, so that all alarms can be acknowledged with a single operator action.
- .16 Station Routing:
- .1 The system to support the routing of alarms to any or all stations on a time schedule.
- .17 Operator Routing:
- .1 The system to support the routing of alarms to particular operators.
- .18 Menu Configurations:
- .1 The system software to allow for the configuration and programming of the controller panel through the use of a simple graphical user interface.
- .19 Memory:
- .1 Memory within each controller panel to be automatically configured by the system.
- .20 Database Updates:
- .1 The system software to be able to automatic and manual download/upload information to the controller panels while the controller panels are in communication with the host CPU.
- .21 Reporting:
- .1 The system software to have the capability to report selectable data by type and by time zone manually and with automatic report generator.
- .22 Workstations:
- .1 The system software to have the capability to report selectable data by type and by time zone to any combination of the system workstations simultaneously.

- .23 Serial Ports:
 - .1 All serial ports to be configured from an easy to follow menu.
- .24 Time Zones:
 - .1 The system software capacity to be for a minimum of 255 user-definable time zones with an minimum 16 individual time intervals.
 - .2 The time zones shall be assignable to:
 - .1 Card holders
 - .2 Outputs
 - .3 Alarming reporting functions
 - .4 TCP/IP and RS232 message ports
 - .5 Doors
 - .6 Reports
 - .7 Printer operation
 - .8 Workstations
- .25 Holidays:
 - .1 The system software to support a minimum of 365 holidays, H1 or H2 designation so that there are three distinct holiday times, starting at any time/hour during a 24-hour day.
- .26 Door Descriptions:
 - .1 Each door in the system to be identified using logical tagging format up to 50 characters and approved by the Department Representative.
- .27 Access Control Modes:
 - .1 Ability to program switching automatically based on a user defined time schedule between the following modes of operation:
 - .1 "CARD ONLY"
 - .2 "HIGH SECURITY"
 - .3 "TWO PERSON"
 - .4 "FREE ACCESS"
- .28 Door Alarms:
 - .1 Ability to program generating "FORCED DOOR" and "DOOR HELD OPEN" alarms with user-definable time delay.
- .29 Door Alarm Annunciation:
 - .1 Ability to activate an output for annunciation:
 - .1 Forced Door
 - .2 Door Held Open (Door Ajar)
 - .3 Void Card
 - .4 Denied Card
 - .5 Input Door Alarm

- .6 Tamper
- .7 Alarms
- .30 Alarm Description:
 - .1 Each alarm point may be defined with a plain text description of up to 50 characters.
- .31 Alarm Enabling:
 - .1 Alarm points to be enabled during user-definable time zones and may be manually enabled/disabled from any workstation.
- .32 Additional Alarms:
 - .1 The system to generate alarms for the following:
 - .1 Enclosure tampering
 - .2 Controller panel communication loss
 - .3 Channel 1 Fail /Channel 2 Fail
 - .4 Battery Failure
 - .5 AC Failure
 - .6 Reader Fuse
 - .7 Auxiliary Fuse
 - .8 Lock Fuse
 - .9 Alarm tampering (supervised)
- .33 Alarm Supervision:
 - .1 When using supervised alarm points, the system to monitor for “OPEN”, “SHORT”, in addition to “NORMAL/ABNORMAL” conditions.
- .34 ASCII Output:
 - .1 Output an ASCII via RS232 or TCP/IP text command for integration to any other IP commandable device.
- .35 Outputs:
 - .1 Shunt relays: ability to assign outputs to shunt relays to allow access doors to be monitored by third party alarm systems.
 - .2 Relay “on” time: user-definable outputs assigned to control door from 1-127 seconds or minutes.
- .36 Encryption:
 - .1 The passwords to be encrypted in the operator database using encryption, to facilitate confidentiality of individual operator passwords.
- .37 Operator Access Levels:
 - .1 Unlimited operator access levels for the system. All operator actions will be recorded within the system database.

- .38 Password Security:
 - .1 Up to 20 alphanumeric characters, case sensitive with operators rights to edit their own password.
- .39 Partitioning:
 - .1 True database partitioning by operator. An operator to be able to login anywhere on the system and have the same functionality at any workstation. Operators will be limited to control of the system by their operator Access level.
- .40 Operator Access Levels:
 - .1 The system to have the ability to define unlimited user roles. As a minimum, the user roles shall be:
 - .1 General Administrator
 - .2 Supervisor
 - .3 General User
 - .2 Privilege levels to be assignable to, but not limited to the following menu functions:
 - .1 View
 - .2 Edit
 - .3 Edit of any field within the menu
 - .4 Select
- .41 Operator Activity:
 - .1 All operator activity including specific changes to the database to be stored for later retrieval.
- .42 Audit Trail of Database Changes:
 - .1 The system to have an ability recording changes to the database, including the date, time, operator name and description of the record changed.
 - .2 The audit trail event messages to record additions, deletions and revisions.
 - .3 The system to be able for full or partial restore ~~depending on operator selection~~ of the data or history files during the back-up process.
 - .4 The system to allow for viewing of the audit trail.
 - .5 The system shall NOT allow The Audit Trail table to be edited.
- .43 Employee Definitions:
 - .1 Card Entering:
 - .1 Card input and changes to be able through direct interface with the event viewer screen. Cards to have multiple access levels or assigned special access levels. Cards may be inactivated from the system while the data remains for reactivation at a later date.
 - .2 Card Data:
 - .1 The system software to allow for card numbers up to 18 digits.

- .3 Employee records:
 - .1 Employee records to consist of a minimum of the following:
 - .2 Card Number
 - .3 Issue level
 - .4 Two (2) groups of access level and time zone
 - .5 User-definable PIN code
 - .6 Facility code
 - .7 Anti-passback location and status
 - .8 Expiration date
 - .9 High Security
 - .10 Lock/Unlock privilege
 - .11 Code Links
 - .12 Track status
 - .13 Last door accessed
 - .14 22 user definable searchable text and data fields
 - .15 Duration use
 - .16 Escort
 - .17 Extended shunt (for ADA compliance)
 - .18 Passback override
- .4 Batch Loading:
 - .1 The system software to allow groups of card to be input through the use of a card number range or by a batch load employee field.
- .44 Reports:
 - .1 Data Storage:
 - .1 All programmed and transactional history is automatically stored to the hard disk for later retrieval.
 - .2 System Function:
 - .1 The system software to be capable of generating reports without affecting the real-time operation of the system.
 - .3 Media:
 - .1 Reports to be generated from the hard disk, or removable media and exportable to over 30 file formats.
 - .4 Search Criteria:
 - .1 The database to be structured for operator to determine the search parameters based on variables available on the individual report menu.
 - .5 User-definable data reports to be available for the following information:
 - .1 Card holder data
 - .2 Door groups
 - .3 Time zones
 - .4 Doors

- .5 Inputs
- .6 Relays
- .7 Links
- .8 Controller panels
- .9 Operators
- .10 System hardware configuration
- .11 System settings configuration
- .6 Transaction reports to be available for the following:
 - .1 Card transactions
 - .2 Alarm transactions
 - .3 Event transactions
 - .4 Operator activity
 - .5 Time and Attendance
- .7 Report Scheduling:
 - .1 The system software to be able to batch reports to any of screen report, report to a network printer or save a report to a file without operator initiation.
- .45 System Guides:
 - .1 The system software to have online help available at any point requiring operator input. The help screen to be accessible by using the standard Windows ® help systems.
- .46 System Status:
 - .1 The operator to be able to monitor via graphical screens, the status of the following in real time:
 - .1 Inputs
 - .2 Outputs
 - .3 Doors
 - .2 Alarm Monitor:
 - .1 A screen to be available to monitor alarms and view, at minimum, 99 of the most recent events.
- .47 Graphics:
 - .1 The floor plans to be configured in ~~AutoCAD~~, JPEG or Bitmaps **format**.
 - .2 The system software to be able to import floor plans produced in AutoCAD.
 - .3 Upon activation of a selected input or door alarm the map to be able pop-up and display the alarmed device with an alarmed icon. Mapping to be real time and interactive.
- .48 Video Badging:
 - .1 The system to have the capability to permit Video Imaging and Badging, and function as an integrated Video Imaging/Badging and Access Control system. The system to utilize a single PC to input data for access control and video

Badging. Badge information including name, card number, signature, fingerprint, user text, bar coding and up to five data fields to be available for each card.

- .49 Video Imaging:
 - .1 The system to have the capability to import images of employees and store them in the database. These images may be recalled and displayed by the operator.
 - .1 The system to have the ability to capture pictures and save from IP Video Cameras.
 - .2 The system to provide for the backing up and restoral of captured pictures.
- .50 Interactive Guard tour:
 - .1 The system to incorporate an interactive guard tour module to provide real time status of the Guards progression. Failure to complete a tour to activate alarms on site and off-site for life safety operations.
- .51 Asset Management:
 - .1 The system to incorporate an asset management module so that owners are assigned to equipment or vehicles to prevent theft. Upon alarm the system to notify via alarm, CCTV interface, and email status the improper event.
- .52 System Tools:
 - .1 The system to provide a copy wizard to quickly copy any device parameter to any other single or group of devices.
 - .2 The system to have a backup scheduler for automatic backup of data.
 - .3 The system to have the ability to custom design the cardholder data by adding new fields.

2.4 **HARDWARE**

- .1 ~~Main Controller~~ **Kantech KT-400 Controller:**
 - ~~.1 A 32-bit microprocessor controlled solid state electronic device with real time clock/calendar on board.~~
 - ~~.2.1 Boards made of gold plated construction and incorporate flashware technology~~ **The operating temperature shall be 2°C to 49°C (35°F to 120°F).**
 - ~~.3.2 Communication: two channel TCP/IP standard LAN/WAN windows environment protocol~~ **Via RS-232, RS-485 or Encrypted Ethernet.**
 - ~~.4 Database: sufficient to support access and alarm functions for its designated readers and points stored at the controller panel.~~
 - ~~.5 In event of communication loss, the controller panel to continue to function without degradation of operation and shall provide storage of a least 10,000 events. Ability to automatically uploading to the CPU upon restoration of the communications.~~
 - ~~.6 UL listed.~~
 - ~~.7 Ram: 8mb available on board.~~
 - ~~.8 Event buffer: 65,000 offline event buffer.~~

- ~~.9 Ports: 3 programmable RS485 ports.~~
- ~~.10 The controller to have 2 on board weigand reader ports to accept any weigand format and 5 weigand formats simultaneously.~~
- ~~.11 Inputs: 8 fully supervised inputs capable of individual configuration for EOL (single and dual EOL), N.O, N.C. operation.~~
- ~~.12 Outputs: 8 outputs. 4 form 'C' relay outputs rated at 10A 30VDC and 4 open collector 100ma outputs.~~
- ~~.13 TCP/IP LAN connections: 2 TCP/IP LAN connections capable of configuration in LAN switch mode or dual LAN operation for Class 'A' Communication configurations.~~
- ~~.14 Complete with separate tamper input.~~
- ~~.15 Input voltage: 12vdc or 30 w POE maximum current draw 500 ma.~~
- ~~.16 Internal charging circuit: for 12vdc gell cell standby battery, and capable of recharging a standby battery from either POE source or 12v local power supply.~~
- ~~.17 Accept and control up to 7 slave reader controllers and 16 I/O controllers simultaneously.~~
- .3 The KT-400 shall support the following reader types: Wiegand, proximity, bar code, magnetic integrated keypad, smartcards and other.**
- .4 The KT-400 shall have 16 monitored input zones. The inputs shall be programmable NO/NC. The inputs shall support no, single or double end of line resistance.**
- .5 The door locking devices shall output up to 12Vdc 250mA supervised per lock output device. The door locking power shall offer the possibility to share power between door locking devices for a total of 1Amp for all four door locking devices. With the use of external power terminals and using JP4 jumper the controller shall support a maximum of 750mA up to 24Vdc per door locking device.**
- .6 Reader power output shall be 5Vdc or 12Vdc 400mA for each readers. The reader power shall be protected and supervised.**
- .7 The KT-400 auxiliary power output shall be shared with the SPI expansion port shall output a maximum 12Vdc 500mA.**
- .8 The KT-400 shall offer four auxiliary outputs per reader for the led and buzzer, out1 out2. Each led, buzzer, out1 and out2 output shall output 12Vdc 25mA maximum.**
- .9 The four onboard Form C relay controlled outputs shall support current of a maximum 30Vdc 3Amps.**
- .10 Expansion Modules:**
 - .1 The KT-400 shall have 16 onboard inputs Up to 240 more can be added through the addition of expansion modules, such as the KT-MOD-INP16, for a total of 256 inputs, no or single end of line supervision, (120 inputs when configured as double as end of line supervision).**

- .2 The relay module shall convert and manage direct commands from the KT-400 controller to local components. The output shall be based on dry relay contact. Each of the relay shall be completely independent of the others so as to avoid a defective output from affecting the others. For a total of 256 relays per controller, they shall be added in groups of 8 relays at a time.
- .3 This output module shall offer 16 independent low-voltage outputs (12VDC, 50mA). The output module shall convert and manage direct commands from the KT-400 controller. This module shall be directly powered by the door controller with no external power required.
- .11 **Mounting and Cabinet:**
 - .1 Each of the controllers shall be mounted on a wall mounted cabinet with front access through a lockable door. A tamper switch shall be installed to monitor the opening of the door. The cabinet shall have a hinged door and shall be designed to contain all the equipment, modules, cabling and accessories required. No screw, bolt, attachment part or other shall be used on the external faces of cabinets. They shall be free of marks, scratches or defects.
- .2 **Kantech KT-1 Controller:**
 - .1 The KT-1 shall be a one door PoE controller with the ability to support two readers (in/out) for that door.
 - .2 The controller shall have be able to communicate via, RS-485 or Encrypted Ethernet
 - .3 The KT-1 shall be powered by PoE, PoE+ or a 12volts DC 2.2amp power supply.
 - .4 The operating temperature shall be 2°C to 40°C (35°F to 104°F).
 - .5 The KT-1 shall support the following reader types: Wiegand, proximity, bar code, magnetic integrated keypad, smartcards and other
 - .6 The KT-1 shall have 4 monitored input zones. The inputs shall be programmable NO/NC. The inputs shall support no, single or double end of line resistance.
 - .7 The door locking devices shall output up to 12Vdc 750mA (when powered with PoE+ or 12volts DC) supervised for the lock output device.
 - .8 Reader power output shall be 12Vdc 400mA for each reader.
 - .9 The reader power shall be protected and supervised.
 - .10 The KT-1 auxiliary power output shall 12Vdc 500mA.
 - .11 The KT-1 shall offer four auxiliary outputs per reader for the led and buzzer, out1 out2.
 - .12 Each led, buzzer, out1 and out2 output shall output 12Vdc 25mA maximum.
 - .13 The two onboard Form C relay controlled outputs shall support current of a maximum 30Vdc 3Amps when using the KT-1-PCB.
 - .14 The two onboard open collector outputs controlled outputs shall support current of a maximum 12volts dc 25mA when using the KT-1.

~~.2 Network Controller:~~

- ~~.1 A 32-bit microprocessor controlled solid state electronic device with real time clock/calendar on board.~~
- ~~.2 Boards made of gold plated construction and incorporate flashware technology.~~
- ~~.3 Bi-directional communication with speeds up to 2.5mb/s.~~
- ~~.4 Database: sufficient to support access and alarm functions for its designated readers and points stored at the controller panel.~~
- ~~.5 In event of communication loss, the controller panel to continue to function without degradation of operation and shall provide storage of a least 10,000 events. Ability to automatically uploading to the CPU upon restoration of the communications.~~
- ~~.6 Operating over a LAN/WAN using Ethernet TCP/IP.~~
- ~~.7 The individual controller panels to be able to networked together along with the CPU to provide fast, real-time updates and uploads/downloads using Ethernet TCP/IP.~~
- ~~.8 Communication: via a RS232 link directly to the system CPU. The distance between control panels shall be up to 4000 feet.~~
- ~~.9 Equipped with LED display to indicate the following: power, battery backup, AC status, Auxiliary Status and the transmitting and receiving of programmed data.~~
- ~~.10 Equipped with internal 4 hours battery backup and auto-recharge.~~
- ~~.11 Ability to support four (4) reader controllers with 2 reader ports on each reader controller. Reader ports to read any weigand input and up to 5 formats simultaneously. Reader ports shall allow for a keypad to be used in conjunction with the reader and utilize user definable PIN codes.~~
- ~~.12 Support multiple card technologies (Proximity, Magnetic Stripe, Wiegand, etc.) concurrently without additional software or hardware.~~
- ~~.13 Readers shall have the ability to initiate s swipe and or 4 swipe commands based on user card programming to initiate a different sequence of events depending on the need.~~
- ~~.14 Ability to monitor without additional hardware at least eight (8) alarm inputs.~~
- ~~.15 Ability to control four (4) user definable form "c" relay outputs and four user definable transistor outputs for a total of 8.~~

~~.3 Input Output Controller:~~

- ~~.1 Additional inputs and outputs shall be available by adding IO boards. Each expansion board equipped a minimum of sixteen (16) supervised inputs or outputs.~~
- ~~.2 The inputs incorporate full supervision of 7 circuit types and the outputs to be form "c".~~
- ~~.3 The IO board to be independently powered complete with back up power supply and charging circuit for a minimum 4 hour standby operation.~~

~~.4 Wall Cabinets~~

- .1 ~~Controller panel enclosure to be complete with hinged cover and key lock. A control panel input point to monitor an enclosure tamper switch.~~
- .2 ~~The cabinet dimensions: 560 mm (H) x 460 mm (W) x 100 mm (D).~~
- .3 ~~The cabinet to be able to hold any two of the two controllers.~~
- .5 ~~Network Controller Panel Firmware Features~~
 - .1 ~~The controller panel to have the ability to store up to 7000 card/tag/pin codes expandable to 500,000 and buffer up to 10,000 transactions expandable to 500,000.~~
 - .2 ~~The controller panel capable of storing up to eight (25) custom card formats and reading 5 formats simultaneously. The controller panel to be able to read the format of most Magnetic Stripe, Bar Code, Proximity or Wiegand Effect encoded cards and allow an operator to specify parity, start sentinels, stop sentinels, field separators, facility code bits, issue level bits, and card number bits.~~
 - .3 ~~The controller panel capable of reading card numbers up to eighteen (18) digits.~~
 - .4 ~~The controller panel to have the capacity to store up to 128 time zones with each time zone consisting of up to 16 intervals of time consisting of a range of days and time, and automatically manage time zones based upon its internal clock.~~
 - .5 ~~The controller panel to allow for the definition of up to 365 Holidays.~~
 - .6 ~~Each card reader/keypad to have the ability to independently operate in up to six different modes: Card reader only, PIN only, Common Code only, Card Reader plus PIN, High Security and Free Access. These modes of operation to be programmed from the system host computer and shall automatically change by time zone assignment.~~
 - .7 ~~The system to support interlock groups for Man trap operation.~~
 - .8 ~~The controller panel to allow for the support of anti passback operation, in which cardholders must follow a proper in/out sequence.~~
- .6.3 Card Readers
 - .1 The system to employ a proximity access control/identification technology that utilizes radio frequency (RF) circuits in microchip form.
 - .2 ~~The readers to be weigand output or equivalent proximity/iclass/mifare type.~~
 - .3.2 Operating voltage: 5-16 **12 VDC, 45 Ma.**
 - .3 **Transmission frequency: 125 kHz**
 - .4 **Reading: unidirectional.**
 - .5 **Piezo: Incorporated (controlled by the door controller).**
 - .4.6 **Minimum Reading distance: 25-100 mm up to 125 mm.**
 - .5.7 Fitted with independently controllable LED red/green indicator light and audio 'beep' tone indicator.
 - .6.8 Equipped with built-in diagnostics.
 - .7.9 Operating temperature range: -35° to +65° C.
 - .8.10 Weatherproof, suitable for indoor/outdoor installation.
 - .9.11 Mounting: wall mounted on a standard single gang box, and mullion size reader for mullion-mounted door installation.

~~10.12~~ Tamperproof and vandal resistant.

~~11.13~~ Compatible with access card model.

.14 Maximum controller distance 300 meters.

~~7.4~~ Cards

- .1 A standard molded plastic credit-card size card, sealed and highly resistant to normal handling and weather, fitted with vertical slot punched hole, and capable for multi-colour custom graphics, photograph and permanently marked numbers printed directly onto both sides.
- .2 Card to comply with ISO standards for thickness (30 mil).
- .3 PVC dual technology card that employs proximity sensor technology.
- .4 Cards to be sequentially numbered.
- .5 To have the ability to have the encoded number permanently marked on the outside surface.
- .6 Cards to be compatible with all readers in the system.
- .7 Operating temperature range: -40° to +~~50~~**70**° C.

~~8.5~~ Request to Exit ~~Detector~~**Sensor**

- .1 Passive infrared detector type.
- .2 Zone of detection easily adjustable with pinpoint accuracy.
- .3 X-Y Targeting targets a specific area of detection.
- .4 Unlocks or shunts door automatically.
- .5 Hands-free, no buttons to push.
- .6 Integrated 90 dB local door alarm sounder independently controlled by access panel.
- .7 Infrared detection coupled with DSP prevents false “Door Forced Open” alarms.
- .8 Digital Signal Processing (DSP) filter technology.
- .9 Curtain-type Fresnel lens detector lens.
- .10 Detection Range:
 - .1 Narrow Targeting Area: 3 m (10 ft)
 - .2 Whole Body: 6 m (20 ft)
- .11 Main Relay Contacts: SPDT, 1A max @ 30 VDC max
- .12 Main Relay Timer: Adjustable, 0.5 to 60 seconds
- .13 Main Relay Recycle Timer: Fixed, 0.75 seconds off
- .14 Tamper Switch: N.C., 100 mA max @ 30 VDC max
- .15 Indicator Light: Red/Green LED

~~9.6~~ Glass Break Detector:

- .1 Acoustic glass break sensor combined with a passive infrared motion detector (PIR) for the purpose of eliminating occupant generated false alarms.

10.7 Access Control Door Devices Cables:

- .1 Provide all electrical connections between devices and controllers as per manufacturer's recommendations and specified below or approved equal. Wiring from devices to the system interface or CPU to run in metal conduit or EMT. All conduits and junction boxes to be concealed and not accessible to the public.
 - .1 Card Reader: PROVO 6709 - 9 Conductor #22AWG stranded shielded with overall foil shield and drain. Provide additional cables if more than one card reader at door.
 - .2 Electric Strike: PROVO 9162 - 2 Conductor #16AWG stranded unshielded.
 - .3 Local Alarm: PROVO 9182 - 2 Conductor #18AWG stranded unshielded.
 - .4 Door Contact: PROVO 92214 - 2 Conductor #22AWG stranded shielded with overall foil shield and drain.
 - .5 Request-to-Exit: PROVO 92223 - 4 Conductor #22AWG stranded shielded with overall foil shield and drain.

2.5 ACS/VAS INTEGRATION

- .1 System must be capable to allow integration through TCP/IP (relay and or RS232 connections are not acceptable).
- .2 All devices within the ACS system must have a tab to associate a video camera from the VAS system to the device. This association must allow the camera to be called into the ACS GUI upon the following conditions:
 - .1 Any Incoming event from specified device.
 - .2 Any incoming alarm from the specified device. The camera if PTZ must also be called to its predesignation preposition.
- .3 The ACS must be able to connect to the VAS system and display the VAS's default video window as a native VAS viewing client.
- .4 The ACS must have the ability to pop-up any video event designated for pop-up without operator intervention.
- .5 The ACS must have the ability to manually call video by clicking on the event anywhere it appears in the ACS.
- .6 The ACS must have the ability to dynamically place the cameras from the VAS system on its maps and call video from the maps directly.
- .7 The ACS must have the ability to report all events tagged with video and play back directly from the report within the ACS GUI.
- .8 ACS VAS integration to take place at the building front end equipment. Include for all required labour, programming to provide a fully functional integrated system.

2.6 ALARM KEYPADS

- .1 The system to incorporate alarm keypads that link directly to the system for advanced alarm operation. Operators can arm, disarm, send messages and monitor any alarm on the

keypad. In addition the keypads shall have entry exit zones and the ability to initiate commands on the system by entering a code or command. The keypads to have the ability to arm or disarm any group of inputs on the system creating a seamless alarm intrusion panel.

- .2 Alarm Monitoring Integration:
 - .1 The system to allow for annunciation of intrusion detection alarms. Intrusion detection alarms report like any other access control alarm and have the same annunciation and display properties as access control alarms.
 - .2 Alarms from the alarm keypad to be displayed in the alarm monitoring window and any signal can be sent out via TCP/IP or RS232 message port.
 - .3 The system to support an Alarm Details description that show the 'Alarm Description', 'Time/date', 'Controller', 'Device', and 'Area' associated with the alarm. The information also to display the user.
 - .4 The system to support tracing of intrusion detection devices and areas.
 - .5 The system to report status information for the intrusion detection devices.
 - .6 On alarm, the system automatically switched to the map that displays the alarm, the icon that represents that alarm point will flash and an audible alert will be generated on the computer sound system. The operator to have to acknowledge the alarm before processing the alarm.
- .3 In operator alarm mode processing, the system to allow the operator to:
 - .1 Clear alarm, tamper, and diagnostic alarms.
 - .2 Observe CCTV camera views, individually or in groups, that are associated with an alarm (requires video switcher option)
- .4 In operator normal mode processing, the system to allow an operator to:
 - .1 View a list of activity information, and select and tag any event
 - .2 View site maps
 - .3 Perform a test of testable devices/sensors
 - .4 Change the state of sensors to access or secure
 - .5 Review the last 1000 events/actions performed on the system
 - .6 In maintenance processing, the system shall allow the maintenance technician to assign passwords and function access to individual users examine the input/output point states adjust the sensitivity of the sensors access the operating system to diagnose system problems set the calendar clock's date and time (in Windows)
 - .7 Change the format of the displayed date (in Windows)
 - .8 Set the communication parameters for system devices
 - .9 Shut down the system.

2.7 CCTV SYSTEM

- .1 The CCTV system is to assemble of components as required to provide a fully operational system to meet the requirements of this specifications.

- .2 The CCTV System and network to provide adequate coverage to the facility as shown on drawings and to the Department Representative satisfaction, to meet the image resolution, capabilities and storage requirements as identified in this specification.
- .3 The system will transmit data signals from cameras and client stations over an IP network to allow remote viewing and control recording from multiple location.
- .4 Video recording will be done locally on site. Retrieval of archived video to be enabled for multi-location, including off-site.
- .5 Cameras:
 - .1 **Detection/Recognition Type: **Illustra Flex Gen4 2MP Mini-Dome by Tyco Security Products or approved equivalent.****
 - .1 1 MP/HDTV 720p, vandal-resistant casing
 - .2 Image sensor: 1/4" progressive scan RGB CMOS
 - .3 Lens: ~~AXIS M3203/ V: Varifocal 2.8 - 10 mm, 80° - 22° view*, F1.7, fixed iris~~
 - .4 Light sensitivity: 0.9 - 100000 lux, F1.7
 - .5 Shutter time: 1/24500 s to 1/6 s
 - .6 Camera angle adjustment: Pan 360°, tilt 170°, rotation 340°
 - .7 Video compression: H.264
 - .8 Resolutions: 1280x800 to 160x90
 - .9 Frame rate H.264: 30 fps in all resolutions
 - .10 Video streaming: Multiple, individually configurable streams in H.264 and Motion JPEG
 - .11 Power: Power over Ethernet IEEE 802.3af Class 2 (max. 4.2 W)
 - .12 Connectors: RJ-45 10BASE-T/100BASE-TX PoE
 - .13 Operating conditions: 0 °C to 50 °C, Humidity 15 - 85% RH (non-condensing)
 - .14 Accessories: Smoke cover casing
 - ~~.2 Recognition Type:~~
 - ~~.1 1 MP/HDTV 720p, vandal resistant casing~~
 - ~~.2 Image sensor: 1/4" progressive scan RGB CMOS~~
 - ~~.3 Lens: AXIS M3304/ V: Varifocal 2.8 - 10 mm, 80° - 22° view*, F1.7, DC iris~~
 - ~~.4 Minimum Illumination: 0.9 lux, F1.7~~
 - ~~.5 Shutter time: 1/24500 s to 1/6 s~~
 - ~~.6 Camera angle adjustment: Pan 360°, tilt 170°, rotation 340°~~
 - ~~.7 Video compression: H.264~~
 - ~~.8 Resolutions: 1280x800 to 160x90~~
 - ~~.9 Frame rate H.264: 30 fps in all resolutions~~
 - ~~.10 Video streaming: Multiple, individually configurable streams in H.264 and Motion JPEG~~
 - ~~.11 Power: Power over Ethernet IEEE 802.3af Class 2 (max. 4.7 W)~~

- ~~.12 Connectors: RJ-45 10BASE-T/100BASE-TX PoE~~
- ~~.13 Operating conditions: 0 °C to 50 °C, Humidity 15 - 85% RH (non-condensing)~~
- ~~.14 Accessories: Smoke cover casing~~

3.2 Identification Type: *Ilustra Flex Gen4 8MP Mini-Dome by Tyco Security Products or approved equivalent.*

- .1 Camera shall be Axis Model 'P3367' or approved equivalent.
- .2 5 MP, multi-view, vandal resistance, audio, I/O ports
- .3 Image sensor: Progressive scan RGB CMOS 1/3.2"
- .4 Lens: Varifocal, remote focus and zoom, P-Iris control, IR corrected, megapixel resolution; 3-9 mm, 84° - 30° view*, F1.2
- .5 Day and night: Automatically removable infrared-cut filter
- .6 Minimum Illumination: Color: 0.2 lux, B/W: 0.04 lux, F1.2
- .7 Shutter time: 1/28000 s to 2 s
- .8 Camera angle adjustment: Pan 360°, tilt 160°, rotation 340°
- .9 Video compression: H.264 Baseline and Main Profile (MPEG-4 Part 10/AVC) Motion JPEG
- .10 Resolutions: 2592x1944 (5 MP) to 160x90
- .11 Frame rate H.264: 5 MP capture mode: 12 fps in all resolutions; and capable of all AXIS P3346/-V capture modes
- .12 Video streaming: Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth VBR/CBR H.264
- .13 Multi-view streaming: When streaming 4 view areas and 1 overview in VGA resolution, the frame rate is 12 fps per stream (5 MP capture mode) or 20 fps per stream (3 MP capture mode)
- .14 Power: Power over Ethernet IEEE 802.3af Class 2 (max. 4.7 W)
- .15 Connectors: RJ-45 10BASE-T/100BASE-TX PoE
- .16 Operating conditions: 0 °C to 50 °C, Humidity 15 - 85% RH (non-condensing)
- .17 Accessories: Smoke cover casing

4.3 PTZ Type: *Ilustra Flex 2MP PTZ by Tyco Security Products or approved equivalent.*

- .1 Image sensor: 1/3" progressive scan CCD 1.3 megapixel
- .2 Lens: f=4.7 - 84.6 mm, F1.6 - 2.8, autofocus, automatic day/night, horizontal angle of view: 55.2° - 3.2°
- .3 Day and night: Automatically removable infrared-cut filter
- .4 Minimum Illumination: Color: 0.74 lux at 30 IRE F1.6; B/W: 0.04 lux at 30 IRE F1.6
- .5 Shutter time: 1/10000 s to 1/4 s

- .6 Pan/tilt/zoom: E-flip, 100 preset positions; Pan: 360° endless, 0.05° – 450°/s; Tilt: 220°, 0.05° – 450°/s; 18x optical zoom and 12x digital zoom, total 216x zoom
- .7 Pan/tilt/zoom functionalities: Tour recording; Guard tour; Control queue; On-screen directional indicator
- .8 Video compression: H.264 (MPEG-4 Part 10/AVC)
- .9 Resolutions: HDTV 720p 1280x720 to 320x180
- .10 Frame rate H.264: Up to 30 fps in all resolutions
- .11 Video streaming: Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth VBR/CBR H.264
- .12 Image settings: Wide dynamic range (WDR), manual shutter time, compression, colour, brightness, sharpness, white balance, exposure control, exposure zones, backlight compensation, fine tuning of behaviour at low light, rotation, text and image overlay, 32 individual 3D privacy masks, image freeze on PTZ
- .13 Casing: IP66-, NEMA 4X- and IK10-rated, metal casing (aluminium), polycarbonate (PC) clear dome, sunshield (PC/ASA)
- .14 Power: 120VAC (max. 74 W)
- .15 Connectors: RJ-45 10BASE-T/100BASE-TX PoE
- .16 Operating conditions: -40 °C to 50 °C, Arctic Temperature Control enables camera start-up at temperatures as low as -40 °C (-40 °F); humidity 15 - 100% RH (condensing)

~~.5~~ ~~360 View Type:~~

- ~~.1~~ Fully digital colour CMOS (2048 x 1536 pixels)
- ~~.2~~ Image sensor: 1/2" CMOS, progressive scan
- ~~.3~~ Lens: L11 (hemispherical), L22 (90° x 67°)
- ~~.4~~ Light sensitivity: 1 lux (1/60 s) 0.05 lux (1/1 s)
- ~~.5~~ Shutter time: 1/24500 s to 1/6 s
- ~~.6~~ Camera angle adjustment: Pan 360°, tilt 170°, rotation 340°
- ~~.7~~ Video compression: MxPEG, M-JPEG, JPG, H.263
- ~~.8~~ Resolutions: 2048 x 1536 to 160 x 120
- ~~.9~~ Frame rate H.264: 20 fps 3MEGA (2048x1536) 3 Mbps
- ~~.10~~ Video streaming: Multiple, individually configurable streams in H.264 and Motion JPEG
- ~~.11~~ Power: Power over Ethernet IEEE 802.3af Class 2 (max. 4.2 W)
- ~~.12~~ Connectors: RJ 45 10BASE T/100BASE TX PoE
- ~~.13~~ Operating conditions: -30°C to +60°C, IP65

.6 Recording Server/Failover Server **Video Recorder:**

- ~~.1~~ Simultaneous digital multi-channel MJPEG, MPEG4, MPEG-4 ASP, MxPEG and H.264 video recording of IP cameras and IP video encoders without any software limitations on number of cameras per server

- ~~.2~~ A Failover Server can be on standby for a single or a group of Recording Servers and automatically synchronize recordings back to the original Recording Server once it is back online
- ~~.3~~ Edge Storage with flexible retrieval enables managed video retrieval from camera storage based on time schedules and events, enabling you to effectively retrieve video recordings across low bandwidth connections
- .1 The Hybrid Network Video Recorder (“NVR”) shall be an appliance to acquire, record, store, and display video signals from both directly connected analog cameras and IP network video cameras and encoders.**
- .2 The NVR shall be Z-Series IPS 4U by Exacq Technologies, Inc.**
- .3 Recording:**
 - .1 Video storage rate: 800 Mbps – Windows**
 - .2 Local client display rate: 700 frames per second (Windows) – HD resolution**
- .4 User Interfaces – The NVR shall support both thick client browser-based and a mobile web client interface.**
- .5 Thick client**
 - .1 Client software shall be downloadable at no charge from the NVR Manufacturer’s web site and be fully compatible with all available features of the VMS server software.**
 - .2 The client software shall be available for Windows, Apple iOS, and Linux operating systems.**
- .6 Mobile web client**
 - .1 A free mobile application shall be available permitting remote view of live and recorded video through the NVR.**
 - .2 The mobile application shall support PTZ control and the monitoring and activation of alarms and triggers for the mobile device.**
 - .3 The mobile application shall be available for devices running Apple iOS, Google Android, Microsoft Windows, and Amazon Kindle Fire software.**
 - .4 The mobile application shall allow simultaneous interaction with multiple NVR devices from the same Manufacturer.**
 - .5 The web service supporting the mobile application shall size the video stream to accommodate both low bandwidth and high bandwidth networks.**
- .7 Management Server and Management Client Storage Server System Manager:**
 - ~~.1~~ Management Server for initial client logon, system configuration and logging
 - ~~.2~~ Management Client for remote administration of recording servers, devices, security, rules and logging
 - ~~.3~~ All configuration and logs from the entire system are stored in a centralized Microsoft SQL database and accessible by the Management Server only

- ~~.4 Failover solution for the Management Server provides a resilient system solution based on Windows Server Clustering, ensuring high system availability~~
- ~~.5 Management Server manager is available in the local console notification area (icon tray) for status messages and to start/stop the service~~
- ~~.6 The Management Server runs as a Windows service under local system account or optional local Windows user or Microsoft active directory account with run-as-service privileges~~
- ~~.7 To register and validate your licenses, the system offers easy to use online activation via the Internet and alternatively, offline activation via email for closed surveillance networks~~
- ~~.8 Support for both IPv4 and IPv6 addressing.~~
- .1 The Storage Server System Manager (“storage manager”) shall be a software package installed on a dedicated server and providing the following functionality for compatible storage servers reachable via Internet Protocol:**
- .2 The storage manager shall be IPS 4U Video Network Recorder by Exacq Technologies Inc.**
- .3 The system shall provide a browser-based dashboard to view and monitor health and events related to storage servers and the cameras connected to them, including:**
 - .1 Camera Events**
 - .2 Storage Server Events**
 - .3 Provides e-mail notifications of user selected system events and conditions in real time or batch fashion.**
- .4 The system shall allow the configuration of servers for failover.**
- .5 The system shall allow for camera inspection.**
- .6 The system shall allow for password strengthening.**
- .7 Provides color coded status of servers, cameras, and unacknowledged events in the following categories in list or chart format:**
 - .1 Critical**
 - .2 Warning**
 - .3 Normal**
- .8 Allows creation of reports to:**
 - .1 View and manage a list of unacknowledged events.**
 - .2 View a list of open events.**
 - .3 Search for specific events based on various criteria.**
- .9 Allows events to be searched based on various criteria, including event time, event type, and associated cameras and servers.**
- .10 Permits viewing of server licenses.**
- .11 Database compatibility:**
 - .1 Postgre**
 - .2 Microsoft SQL**

- .12 The system shall support the following browsers:**
 - .1 Microsoft Edge 44 and later**
 - .2 Chrome 83 and later**
 - .3 Safari 13 and later**
 - .4 Mozilla Firefox 76 and later**
- .13 The system shall operate on all the following operating systems:**
 - .1 Windows 10**
 - .2 Windows Server 2016**
 - .3 Ubuntu Linux 18.04**
- .14 The system shall run as a service. The system manager shall not require any application to be running to operate.**
 - .1 The system shall run on a mobile application at no additional cost.**
- .15 Storage Manager shall operate on the following minimum requirements:**
 - .1 Processor: Gen 7 Intel® Core i5**
 - .2 RAM: 8GB**
 - .3 Hard drive: 128GB SSD**
 - .4 Network: 2 x 1 Gbps**
- .16 Operating system: Windows 10 or Server 2016 or Ubuntu Linux 18.04**
- .17 Client PC Minimum requirements:**
 - .1 Processor: Gen 7 Intel® Core i3**
 - .2 RAM: 4 GB**
 - .3 Network: 1 x 1 Gbps**
 - .4 Browser: Microsoft Edge 44, Chrome 83, Safari 13, Mozilla Firefox 76**
- .8 System Monitor:**
 - .1 Dedicated task-oriented tabs for the Sequence Explorer, Alarm Manager and System Monitor, in addition to the traditional Live and Playback.**
 - .2 Application theme support with choice of dark or light themes.**
 - .3 View live or playback video from 1-100 cameras per computer monitor/view from the same or different servers simultaneously.**
 - .4 Built-in map function in the system monitor that provides intuitive overview of the system and offers integrated access to all system component .**
- .9 Remote Monitor:**
 - .1 View live video for 1-16 cameras simultaneously from the same or different servers.**
 - .2 Playback of up to nine recorded videos with date, sequence or time searching.**
 - .3 Advanced video navigation including fast/slow playback, jump to date/time, single step and video motion search.**

- .10 Wall Monitors:
 - .1 Hardware independent - runs on standard servers and displays and no special video wall hardware or network configurations required.
 - .2 Flexible and seamlessly scalable – supports any numbers of wall monitors with any number and any combination of monitors at any location.
 - .3 Management of wall monitor fully integrated with Management Server.
 - .4 Dynamic user control of wall monitor layout and content through manual drag-and-drop of cameras and views into the wall monitor via the System monitor.

- .11 The Video Management System (VMS) shall be a software package for comprehensive management of live and recorded video, and associated audio data.**
 - .1 The VMS shall be ExaqVision Enterprise by Exacq Technologies Inc.**
 - .2 The VMS shall possess the following general characteristics:**
 - .1 provide effective monitoring of video from IP cameras and encoding devices, two-way audio and data in real time over local and wide area networks;**
 - .2 interactive and multi-level mapping;**
 - .3 data integration from retail and access control system;**
 - .4 single-screen administration across multiple servers and systems;**
 - .5 automatic identification and IP address assignment of compatible IP cameras and encoders with status display;**
 - .6 open architecture supporting IP cameras and encoders and access control systems from multiple manufacturers;**
 - .7 support simultaneous access to video from multiple servers**
 - .8 virtual matrix functionality ;**
 - .9 provisioned as a service without requiring any application to be running in order to operate;**
 - .10 2-way audio support between server, client, and camera.**
 - .3 Vide streaming:**
 - .1 Video formats supported: MJPEG, MPEG-4, H.264**
 - .2 Each video stream shall have the ability to be recorded, viewed live, saved to views, exported, and available in search and playback.**
 - .3 Streams shall be individually configurable for recording schedules, storage rules and**
 - .4 The VMS shall allow the setting of multiple, independent video streams from the IP camera, each configurable for frame rate, resolution and quality level.**
 - .4 Recording:**
 - .1 continuous, uninterrupted and unattended recording of all video and audio transmitted to the VMS, including during times of administration and configuration of any feature**
 - .2 recording triggered by video motion detection within a defined region of interest of the camera's view**

- .3 record video based on metadata generated by an edge network device and included in the video stream sent to the VMS server**
- .4 configure each video input's recording time on an hourly basis, to further allow the user to schedule when to record on motion, when to record on event and when to not record**
- .5 Events:**
 - .1 The VMS software shall use events to initiate desired actions**
- .6 Search and Playback**
- .7 Video and information display**
- .8 Pan Tilt Zoom (PTZ)**
- .9 Mapping**
- .10 Export**
- .11 Administration and Configuration**
- .12 Native Integration to Security and Access Control Systems:**
 - .1 The VMS shall natively integrate with Kantech Entrapass access control systems.**
- .13 Cameras per server**
 - .1 analog: 64**
 - .2 IP: 128**
- .14 Number of simultaneous clients per server:**
 - .1 installed client: 512**
 - .2 web client: 16**
- .15 Local client display rate: Local client display rate:**
 - .1 Windows OS: up to 1800 frames per second**
 - .2 Linux OS: up to 1200 frames per second**
- .16 Server requirements:**
 - .1 Acceptable operating systems:**
 - .1 Microsoft Windows Server 2008/2008R2/2012**
 - .2 Microsoft Windows 7 Pro, 8.1, 10**
 - .3 Linux Ubuntu 10.04, 12.04, 14.04**
 - .2 Processor: Intel Celeron G1610 minimum**
 - .3 RAM: 2 GB minimum**
 - .4 Operating System Drive: 32 GB partition**
 - .5 Network interface: 1000BASE-T Ethernet**
- .17 Client workstation minimum requirements:**
 - .1 Acceptable operating systems:**
 - .1 Microsoft Windows Server 2008/2008R2/2012**
 - .2 Microsoft Windows 7 Pro, 8.1, 10**
 - .3 Linux Ubuntu 10.04, 12.04, 14.04**
 - .4 Apple Mac OSX 10.7 – 10.10, operating on Intel CPU**

- .2 **Processor: Intel Celeron G1610 or higher**
- .3 **RAM: 2 GB minimum**
- .4 **Network interface: 1000BASE-T Ethernet**
- .5 **HDD Storage: 10 GB minimum**
- .6 **Graphics: Intel HD 2000 Series or better**
- .18 **Multi-monitor client workstation**
 - .1 **Acceptable operating systems:**
 - .1 **Microsoft Windows Server 2008/2008R2/2012**
 - .2 **Microsoft Windows 7 Pro, 8.1, 10**
 - .3 **Linux Ubuntu 10.04, 12.04, 14.04**
 - .4 **Apple Mac OSX 10.7 – 10.10, operating on Intel CPU**
 - .2 **Processor: Intel Core i7-4770**
 - .3 **RAM: 12 GB minimum**
 - .4 **Graphics: Intel HD 4000 or Nvidia NVS Series**
 - .5 **Network interface: 1000BASE-T Ethernet**
 - .6 **HDD Storage: 64 GB SSD minimum**
 - .7 **Acceptable web browsers:**
 - .8 **PC: Internet Explorer, Firefox, Safari, Opera, Chrome, all non-JavaScript browsers**
 - .9 **HTML compliance: HTML 4.0**
 - .10 **Mobile device: Apple iOS, Google Android, Microsoft Windows Phone 8**
- .11 **Management Servers:**
 - .1 **Hardware platform:**
 - .1 **Dual Core Intel Xeon, minimum 2.0 GHz (Dual Core recommended).**
 - .2 **RAM: minimum 1 GB (2 GB or more recommended).**
 - .3 **HDD: minimum 50 GB free (depends on number of servers, cameras, rules, and logging settings).**
 - .4 **HDD type: E IDE, PATA, SATA, SCSI, SAS (7200 RPM or faster).**
 - .2 **Operating system:**
 - .1 **Microsoft Windows Server 2008 R2 (64 bit), Microsoft**
 - .2 **Windows Server 2008 (32 or 64 bit), Microsoft Windows**
 - .3 **Server 2003 (32 or 64 bit) to run redundant cluster solution, Microsoft Windows Server 2003/2008 Enterprise or Data Center edition is needed**
 - .3 **Software:**
 - .1 **Microsoft .NET 4.0 Framework**
 - .2 **Microsoft .NET 3.5 Framework SP 1 required for the SQL Server containing XProtect Corporate's system configuration**
 - .3 **Internet Information Service (IIS) 5.1, or newer**
- .12 **Event Server**

- .1 Hardware platform:
 - .1 Intel Xeon, minimum 2.0 GHz (Dual Core recommended)
 - .2 RAM: Minimum 1 GB (2 GB or more recommended)
 - .3 Ethernet (1 Gigabit recommended)
 - .4 HDD: Minimum 10 GB free (depends on number of servers, cameras, rules, and logging settings)
 - .5 HDD type: E-IDE, PATA, SATA, SCSI, SAS (7200 RPM or faster)
- .2 Operating system:
 - .1 Microsoft Windows Server 2008 R2 (64 bit),
 - .2 Microsoft Windows Server 2008 (32 or 64 bit),
 - .3 Microsoft Windows Server 2003 (32 or 64 bit)
 - .4 To run redundant cluster solution, Microsoft Windows Server 2003/2008 Enterprise or Data Center edition is needed
- .3 Software:
 - .1 Microsoft .NET 4.0 Framework.
 - .2 Internet Information Service (IIS) 5.1, or newer
- .13 Storage and Failover Servers
 - .1 Hardware platform:
 - .1 Dual Core Intel® Xeon®, minimum 2.0 GHz (Quad Core recommended)
 - .2 RAM: minimum 1 GB (2 GB or more recommended).
 - .3 Ethernet (1 Gigabit recommended)
 - .4 HDD: minimum 100 GB free (depends on number of cameras and recording settings)
 - .5 HDD type: E-IDE, PATA, SATA, SCSI, SAS (7200 RPM or faster)
 - .2 Operating system:
 - .1 Microsoft® Windows® 7 Ultimate (32 bit or 64 bit),
 - .2 Microsoft Windows 7 Enterprise (32 bit or 64 bit),
 - .3 Microsoft Windows 7 Professional (32 bit or 64 bit),
 - .4 Microsoft Windows Server 2008 R2 (64 bit), Microsoft
 - .5 Windows Server 2008 (32 or 64 bit), Microsoft Windows
 - .6 Vista Business (32 or 64 bit), Microsoft Windows Vista Enterprise (32 or 64 bit), Microsoft Windows Vista
 - .7 Ultimate (32 or 64 bit), or Microsoft Windows Server 2003 (32 or 64 bit)
 - .3 Software:
 - .1 Microsoft .NET 4.0 Framework
 - .4 Hard Drive Storage Configurations:
 - .1 Live disks: RAID 1+0
 - .2 Archive disks: RAID 6

~~4.12~~ Security Network Switches – Cisco Catalyst 3750-E Series or approved equivalent as recommended by the Security System Integrator:

- .1 PoE configurations with up to 15.4 W of PoE on all 48 ports
- .2 StackWise Plus for ease of use and resiliency with 64 Gbps of throughput
- .3 Open Shortest Path First (OSPF) routing with IP Base feature set
- .4 Modular power supply with externally available backup
- .5 Multicast routing, IPv6 routing, and access control list in hardware
- .6 Out-of-band Ethernet management port along with RS-232 console port
- .7 24 Ethernet 10/100/1000 ports with PoE and 2 X2 10 Gigabit Ethernet uplinks
- .8 750WAC power supply for 24-port switch with 420W PoE
- .9 Redundant Power System:
 - .1 Redundant Power Supply (RPS) 2300 to increase availability in a converged data, voice, and video network by providing transparent power backup to two of six attached Cisco Catalyst 3750-E Series Switches at the same time.
 - .2 The failed power supply can be swapped out while the switch is being powered up by the RPS 2300.

~~4.13~~ Security Network Cabinet – Panduit “Net-Access Server Cabinet” or approved equivalent:

- .1 Number of unit spaces: Forty Five (45).
- .2 Inset frame posts.
- .3 Fully integrated, electrically bonded cabinet with a single ground connection to guard against EMI and ESD, and provide a safe current path to ground
- .4 All welded frame construction
- .5 Adjustable rear cage nut mounting rails
- .6 Doors include keyed swing latches
- .7 Side panels include keyed pushbutton latches
- .8 Durable black polyester epoxy powder coat finish
- .9 UL Listed 2500 lbs. (1134 kg) load rating
- .10 Cabinet frame with top panel.
- .11 Single hinge perforated front door.
- .12 Split perforated rear doors open in the middle to minimize door swing footprint.
- .13 Solid side panels.
- .14 Two sets of cage nut equipment mounting rails.
- .15 45 RU cable management on rear of rear posts.
- .16 Power outlet unit mounting brackets.
- .17 Dimensions: 84.0"H x 31.5"W x 41.1"D (2134mm x 800mm x 1044mm)
- .18 Power Strip:
 - .1 Provide two power strips for each cabinet.
 - .2 Voltage: 208V, single phase.

- .3 Ampacity: to match receptacles ratings serving each cabinet as shown on plans.
- .4 Vertical power strip.
- .5 Complete with surge and digital power monitor meter
- .6 Three (3) meter power cord complete with matching twist-lock plug
- .7 Ten (10) NEMA 6-xxR receptacles per circuit. Rating of the receptacle to match rating of the power strip.
- .19 Rack mounted shelves:
 - .1 Provide one, two or three rack spaces and 19 inches wide rack mounted shelves to allow for the installation of rack mount LCD, keyboard, mouse and KVM equipment.
 - .2 The shelves shall be front mounted, slide out or cantilevered versions.
 - .3 Keyboard shelves shall accommodate either 16.5 inch or 20 inch wide keyboards and a mouse.
 - .4 The keyboard shelves shall fit in a 2 RU rack space

-16.14 Localize access to Security Systems:

- .1 The system integrator is to include and suggest for the following equipment to be mounted in the security systems cabinets to enable localized access and trouble shooting of systems:
- .2 Provide a 17" Rack Mountable LCD Monitor
- .3 Keyboard
- .4 Mouse
- .5 KVM

-17.15 Security Network UPS:

- .1 The existing Eaton Powerware UPS to be reused for the system.

-18.16 Security Network Backbone Cable – Backbone Optical Fibre Cables, Multimode:

- .1 The backbone optical fibre cables, multimode shall be Belden "FX2000 System".
- .2 Multimode Optical fibre cable construction to be of 50/125µ graded-index optical fibres. Performance to be per ANSI/EIA/TIA 568-C.3 / ISO 11801 OM3 specification.
- .3 Indoor optical fibre cables to be of tight buffered construction.
- .4 Outdoor cables to be of loose tube gel filled construction with FT4 jacket rated for indoor/outdoor use.
- .5 Cable jacket to be FT4 rated thermoplastic except where otherwise indicated.
- .6 Cable jacket to be FT6 rated thermoplastic where any part of the cable is exposed to an air return or air feed system.
- .7 Indoor and outdoor cables to be of all dielectric construction.
- .8 Sheath consisting of an overall jacket and one or more layers of dielectric material applied over the core.
- .9 Mechanical and environmental specifications for indoor optical fibre cable in accordance with ANSI/ICEA S-83-596.

- .10 Mechanical and environmental specifications for outdoor optical fibre cable to be in accordance with ANSI/ICEA S-83-640.

Part 3 Execution

3.1 EXAMINATION

- .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for access control system installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

3.2 INSTALLATION

- .1 Install systems and their components in accordance with applicable standards and manufacturer's written installation instructions to locations, heights and surfaces shown on reviewed shop drawings.
- .2 Install components properly aligned and secure to walls, ceilings or other substrates. Provide mounting hardware in accordance with manufacturer's written installation instructions.
- .3 Install required boxes in inconspicuous accessible locations. Provide tamperproof unobtrusive dual gang receptacle back box with stainless steel cover plate where door release items installed in areas with suspended ceiling, fixed tile, plaster, or concrete walls, and/or metal door frames.
- .4 Install all wiring/cabling and provide termination in accordance with manufacturer's written installation instructions.
- .5 Conceal conduit and wiring.
- .6 Install ULC labels where required.
- .7 Furnish all necessary interconnections, services, and adjustments required for a complete and operable system as specified and indicated.
- .8 Install all power, control, signal, communications, and data transmission lines plus all required grounding to preclude ground loops, noise, and surges from adversely affecting system operation.
- .9 Install security cabinets to house Access Control, Intrusion Detection, and Video Surveillance hardware, including but not limited to controller panels, monitoring and recording servers, security LAN switches.
- .10 Install all interconnection to other systems, including but not limited to Fire Alarm Systems, Elevator System Controllers, Building Automation Systems (BAS), Lockdown Emergency Notification PA system. Provide slack cabling to allow for terminations to

other systems. Coordinate with other related systems trades to provide a complete functional interfacing and integration of systems.

- .11 Security cabling, metallic conduit and boxes:
 - .1 All cabling is to be in accordance with the manufacturer's recommendations.
 - .2 All communications equipment to be protected against surges induced on any communications circuit. All cables and conductors, except fibre optics, which serve as communications circuits from security console to field equipment, and between field equipment, to have surge protection circuits installed at each end.
 - .3 All wiring and cabling must be fully enclosed in metallic conduit.
 - .1 Conduits to field devices – 21 mm or as indicated on the drawings.**
 - .2 Conduits to door controller and security panels – 27 mm or as indicated on the drawing.**
 - .3 Conduits from security panels to racks – 41 mm or as indicated on the drawing.**
 - .4 Conceal conduit and wiring.
 - .5 IP based cabling to run in metallic conduit independent of LAN cabling and infrastructure. Provide all necessary junction and pull boxes in accordance with best installation practices and the project specifications.
 - .6 Install cables in continuous runs, splicing is not allowed.
 - .7 Tag both ends of cable runs. Reflect same nomenclature on as-built drawings.
 - .8 Provide home conduit home runs for cameras back to Telecommunication room security switches.
- .12 Coordinate with elevator vendor the provisions for connections to security system inside the elevator cabs. Reconfirm suitable controller model or interface to provide an integrated security/elevator system.

3.3 SITE TEST AND INSPECTION

- .1 Perform verification inspections and test in presence of Departmental Representative.
 - .1 Provide all necessary tools, ladders and equipment.
 - .2 Ensure appropriate Department Representatives and manufacturer's representatives and security specialists are present for verification.
- .2 Visual verification: objective is to assess quality of installation and assembly and overall appearance to ensure compliance with Contract Documents. Visual inspection to include:
 - .1 Sturdiness of equipment fastening.
 - .2 Non-existence of installation related damages.
 - .3 Compliance of device locations with reviewed shop drawings.
 - .4 Compatibility of equipment installation with physical environment.
 - .5 Inclusion of all accessories.
 - .6 Device and cabling identification.
 - .7 Application and location of ULC approval decals.

- .3 Technical verification: purpose to ensure that all systems and devices are properly installed and free of defects and damage. Technical verification includes:
 - .1 Measurements of tension and power.
 - .2 Connecting joints and equipment fastening.
 - .3 Measurements of signals (dB, lux, baud rate, etc.).
 - .4 Compliance with manufacturer's specification, product literature and installation instructions.
 - .5 Prepare and submit three (3) copies of the Final Test Procedures for review by the Consultant.
 - .6 Carry preliminary acceptance test after the Final Test Procedure has been review to the satisfaction of the Consultant.
 - .7 Carry and execute the final acceptance test in the presence of the Consultant, the Owner's representative and the Commissioning Agent.
 - .8 The Test Procedures are to in accordance with the Manufacturer's Recommendation, the System Integrator recommendations.
- .4 Operational verification for CCTV:
 - .1 Operation of each device individually and within its environment.
 - .2 Operation of each device in relation with programmable schedule and or/specific functions.
 - .3 Operation control of camera lens, pan, tilt and zoom.
 - .4 Switching of camera to any monitor.
 - .5 Switching of system video recorder to selective monitor.
 - .6 Set dwell times.
 - .7 Demonstrate sequence viewing of cameras on each monitor, bypass capability, display of stored image to cardholder.
- .5 Operational verification for Access Control Systems – Pretesting procedure:
 - .1 Verify (utilizing an approved spectrum analyzer and test equipment) that system is fully operational and meets all system performance requirements of this specification.
 - .2 Measure and record, control (and/or voice) carrier levels of every system channel at each of following points in the system:
 - .1 Door located actuating devices.
 - .2 Door control panel functions.
 - .3 Electronic supervisory control unit inputs and outputs.
 - .4 Distribution system input and output.
 - .3 Submit to Departmental Representative two (2) copies of recorded system pretest measurements, along with pretest certification.
- .6 Operational verification for Access Control Systems – Performance testing:
 - .1 Test procedure: perform test on a "go-no-go" basis.
 - .1 Make only operator adjustments required to show proof of performance.

- .2 Test to demonstrate and verify that installed system complies with installation and technical requirements of this specification under operating conditions.
- .2 Mechanical inspection to check:
 - .1 Electrical power circuits designated for system equipment are properly labelled, wired, phased, protected and grounded.
 - .2 Conductor ends are protected by heat shrink wrap; audio spade lugs, barrier strips and punch blocks are used.
 - .3 Dusts, debris, solder splatter, etc. are cleaned and removed from site.
 - .4 Equipment is properly labelled.
 - .5 Equipment identified in system's equipment lists is in-place and properly installed.
 - .6 Each lightning and System ground method are installed in accordance with manufacturer's instructions and this specification.
- .7 Subsystem functional test:
 - .1 Conduct operational testing after review of documentation and mechanical inspection completed. Proceed as follows.
 - .1 Perform operational test of each Subsystem to verify that all equipment is properly connected, interfaced and is functionally operational to meet requirements of this specification.
 - .2 Control units:
 - .1 Take S/N readings from control unit's input and output in manual and/or automatic mode. Check output of DC/Data converter for S/N. Evaluate entire signal quality at baseband connector output of control unit and remote equipment.
 - .3 Distribution (or interface) system:
 - .1 Check each door utilizing a volt/ohm (or signal level) metre to confirm each function and to ensure that system meets all performance requirements.
 - .2 Test each interconnection point (i.e.: door unit, junction box "cross connection", control unit, etc.) to ensure compliance with this specification.
 - .4 Total system test:
 - .1 Proceed with testing when system and subsystems are functionally tested and accepted. Total system tests to verify that requirements have been met for DC and/or audio, sub carrier, and control signals in accordance with this specification.
 - .5 Safety:
 - .1 Demonstrate with documentation that access control system meets safety requirements specified in UL 294.
- .8 Visual verification: objective is to assess quality of installation and assembly and overall appearance to ensure compliance with Contract Documents. Visual inspection to include:
 - .1 Sturdiness of equipment fastening.

- .2 Non-existence of installation related damages.
- .3 Compliance of device locations with reviewed shop drawings.
- .4 Compatibility of equipment installation with physical environment.
- .5 Inclusion of all accessories.
- .6 Device and cabling identification.
- .7 Application and location of ULC approval decals.
- .9 Technical verification: purpose to ensure that all systems and devices are properly installed and free of defects and damage. Technical verification includes:
 - .1 Validate sensitivity of readers and applicability and application of cards.
 - .2 Connecting joints and equipment fastening.
 - .3 Compliance with manufacturer's specification, product literature and installation instructions.
- .10 Operational verification: purpose to ensure that devices and systems' performance meet or exceed established functional requirements. Operational verification includes:
 - .1 Operation of each device individually and within its environment.
 - .2 Operation of each device in relation with programmable schedule and or/specific functions.
- .11 Remove protective coverings from cameras and components.
- .12 Adjust cameras for correct function.

3.4 FIELD QUALITY CONTROL

- .1 Manufacturer Services:
 - .1 Manufacturer of products, supplied under this Section, to review Work involved in the handling, installation/application, protection and cleaning, of its products and submit written reports, in acceptable format, to verify compliance of Work with Contract.
 - .2 Manufacturer's Field Services:
 - .1 Obtain written reports from manufacturer verifying compliance of Work, in handling, installing, applying, protecting and cleaning of product.
 - .2 Submit manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.
 - .3 Ensure manufacturer's representative is present before and during critical periods of installation and testing.

3.5 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 26 05 00 Common Work Results for Electrical.

3.6 PROTECTION

- .1 Protect installed products and components from damage during construction.

- .2 Repair damage to adjacent materials caused by access controls and equipment installation.

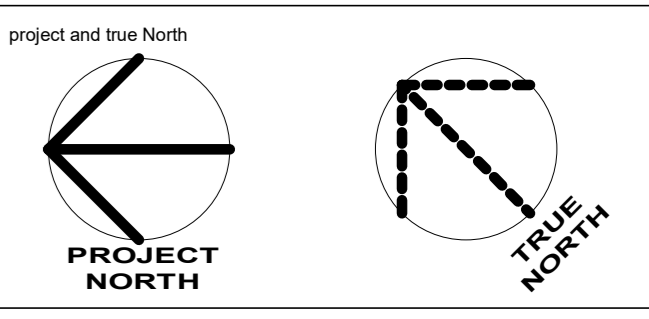
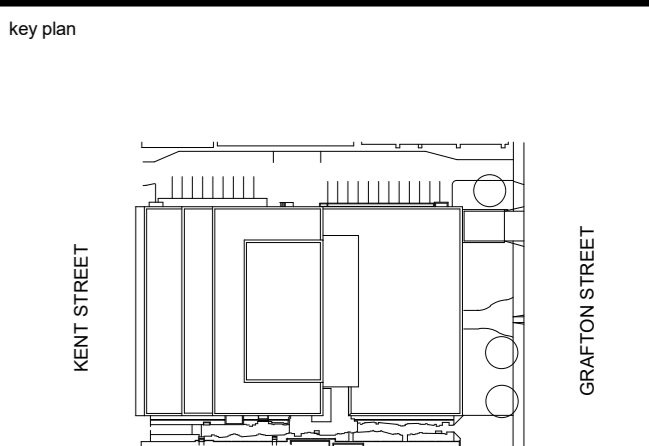
END OF SECTION

PARKING LEVEL DOOR & HARDWARE SCHEDULE

DOOR NUMBER	ROOM NAME	HARDWARE SET	DOOR			FRAME			FIRE RESISTANCE RATING			STC	REMARK
			WIDTH	HEIGHT	THICK	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH		
B-01	F4E ROOM 1	1	1830	2150	45	E1	HM	PT	3	HM	PT		CARD ACCESS
B-02	WELLNESS CENTRE	2	1830	2150	40	C	AL/GL	GL-T1	3	AL	-		KEYPAD ACCESS
B-03	IT OPERATION STORAGE	3	1830	2150	45	E1	HM	PT	3	HM	PT	0 HR	0 HR
B-04	CORRIDOR	4	1830	2150	45	E1	HM	PT	3	HM	PT		CARD ACCESS
B-05	VESTIBULE	5	1830	2150	45	E2	HM/GL	PT/IGL-FR1	3	HM	PT	1.0 HR	1.5 HR
B-06	WORK ROOM	6	1830	2150	45	E1	HM	PT	3	HM	PT		CARD ACCESS
B-07	SHOWER ROOM	7	965	2150	45	D	HM	PT	3	HM	PT		CARD ACCESS, BFO, BF KIT
B-07A	SHOWER ROOM	7	965	2150	45	D	HM	PT	3	HM	PT		CARD ACCESS, BFO, BF KIT
B-08	SHOWER ROOM	7	965	2150	45	D	HM	PT	3	HM	PT		CARD ACCESS, BFO, BF KIT
B-09	SHOWER ROOM	7	965	2150	45	D	HM	PT	3	HM	PT		CARD ACCESS, BFO, BF KIT
B-10	JANITORIAL STORAGE	8	1830	2150	45	E1	HM	PT	3	HM	PT	1.0 HR	1.5 HR
B-11	MATERIAL MANAGEMENT	9	1830	1950	45	E1	HM	PT	3	HM	PT		REMOVED HEIGHT DOOR, CARD ACCESS - NOTE 2
B-11	PARKING AREA	10	965	2150	45	D	HM	PT	3	HM	PT	1.0 HR	1.5 HR
B-14A	PARKING AREA	11	1830	2150	45	E1	HM	PT	3	HM	PT		CARD ACCESS
B-14B	PARKING AREA	11	1830	2150	45	E1	HM	PT	3	HM	PT		CARD ACCESS
B-16	PARKING AREA	12	1830	2150	45	E1	HM	PT	3	HM	PT		CARD ACCESS
B-18A	VESTIBULE	6	1830	2150	45	E1	HM	PT	3	HM	PT	1.0 HR	1.5 HR
B-19	VESTIBULE	14	1830	2150	45	E1	HM	PT	3	HM	PT		CARD ACCESS
B-20C	MEP ROOM 2	15	965	2150	45	D	HM	PT	3	HM	PT		CARD ACCESS
B-21	BOIS STORAGE	16	1830	2150	45	E1	HM	PT	3	HM	PT	1.0 HR	1.5 HR
B-21A	JANITOR ROOM	7	965	2150	45	D	HM	PT	3	HM	PT	0 HR	0 HR
B-22B	COMMUNICATION STORAGE	19	1830	2150	45	E1	HM	PT	3	HM	PT		CARD ACCESS
B-24	MEP ROOM 1	20	965	2150	45	D	HM	PT	3	HM	PT	0.75 HR	1.0 HR
B-25	ELEC. CLOSET	21	965	2150	45	D	HM	PT	3	HM	PT		CARD ACCESS
B-26A	VESTIBULE	22	965	2150	45	D	HM	PT	3	HM	PT	1.0 HR	1.5 HR
B-26B	PARKING AREA	23	965	2150	45	D	HM	PT	3	HM	PT		CARD ACCESS, BFO
B-28	ELECTRICAL ROOM	23	965	2150	45	D	HM	PT	3	HM	PT	0.75 HR	1.0 HR
B-29	ALL ACCESS SHOWER ROOM	24	965	2150	45	D	HM	PT	3	HM	PT		CARD ACCESS, BFO, BF KIT
B-29	STAIR E	33	965	2150	45	D	HM	PT	3	HM	PT		EXISTING ACCESS PANEL
EX-B-23	PARKING AREA	EXST	910	2200	54	-	-	-	-	-	-	-	EX GRANTON ST GARAGE DOOR
EX-B-11	EXISTING LOBBY	EXST	915	2150	45	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	1.0 HR	1.5 HR
EX-B-12	EXISTING LOBBY	EXST	915	2150	45	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	1.0 HR	1.5 HR
EX-B-13	EXISTING EQUIPMENT ROOM	EXST	915	2150	45	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	1.0 HR	1.5 HR
EX-B-17	VESTIBULE	EXST	915	2150	45	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	1.0 HR	1.5 HR
EX-B-18	EXISTING LOBBY	EXST	915	2150	45	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	1.0 HR	1.5 HR
EX-B-19	EXISTING LOBBY	EXST	915	2150	45	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	1.0 HR	1.5 HR
EX-B-27	COMMUNICATION STORAGE	EXST	915	2150	45	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	0.75 HR	1.0 HR
EX-B-30A	PARKING AREA	EXST	910	2200	54	-	-	-	-	-	-	-	EX KEYT BY GARAGE DOOR
EX-B-30B	PARKING AREA	EXST	915	2150	45	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	1.0 HR	1.5 HR
EX-B-3E	CORRIDOR	EXST	915	2150	45	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	1.0 HR	1.5 HR

MAIN FLOOR DOOR & HARDWARE SCHEDULE

DOOR NUMBER	ROOM NAME	HARDWARE SET	DOOR			FRAME			FIRE RESISTANCE RATING			STC	REMARK
			WIDTH	HEIGHT	THICK	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH		
1-01	DATA ROOM	26	965	2150	45	D	HM	PT	3	HM	PT	0.75 HR	1.0 HR
1-02	ELECTRICAL ROOM	26	965	2150	45	D	HM	PT	3	HM	PT	0.75 HR	1.0 HR
1-04	SECURITY SERVER RM	27	965	2150	45	D	HM	PT	3	HM	PT		CARD ACCESS
1-04A	FIRST AID ROOM	29	965	2150	45	A	WD	PLAM	3	HM	PT		CARD ACCESS, BF KIT - NOTE 5
1-07	FIRE PANEL ROOM	18	965	2150	45	E1	HM	PT	3	HM	PT		CARD ACCESS
1-08	ELEC. CLOSET	25	965	2150	45	D	HM	PT	3	HM	PT	0.75 HR	1.0 HR
1-12	ALL ACCESS VR	30	965	2150	45	D	HM	PT	3	HM	PT		BFO, BF KIT, DOOR GRILL - NOTE 3
1-13	ELEC. CLOSET	25	965	2150	45	D	HM	PT	3	HM	PT	0.75 HR	1.0 HR
1-18	VIDEO PRODUCTION	31	965	2150	51	A	WD	PLAM	3	HM	PT		CARD ACCESS - NOTE 7
1-19A	VIDEO STUDIO	30	965	2150	45	A	WD	PLAM	3	HM	PT		CARD ACCESS - NOTE 4
1-23	FOCUS ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-29	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-30	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-31	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-32	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-33	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-34	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-35	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-36	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-37	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-38	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-39	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-40	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-41	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-42	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-43	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-44	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-45	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-46	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-47	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-48	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-49	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-50	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-51	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-52	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-53	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-54	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-55	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-56	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-57	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-58	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-59	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-60	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-61	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
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1-66	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
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1-72	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-73	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-74	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-75	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		NOTE 3
1-76	MEETING ROOM	33	965	2755	40	A	WD	PLAM	1	AL	-		



project legend

3	ADDENDUM # 10	2022-09-01
2	ADDENDUM # 7	2022-09-03
1	ADDENDUM # 5	2022-07-25
0	ISSUED FOR TENDER	2022-06-07

**DANIEL J MACDONALD
MODERNIZATION**

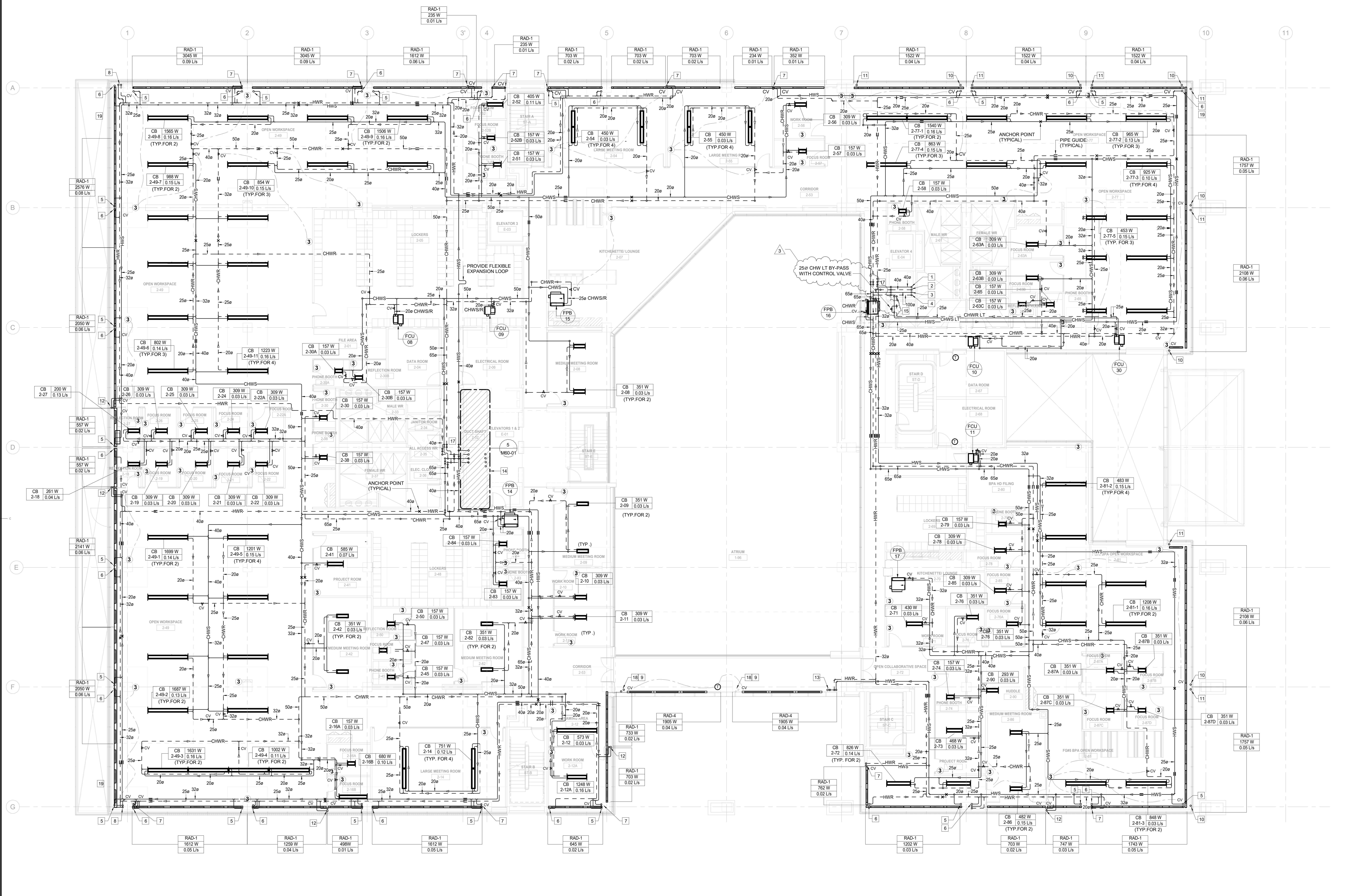
161 GRAFTON STREET
CHARLOTTETOWN, PEI, C1A 1L1

**HYDRONIC - SECOND
FLOOR NEW WORK**

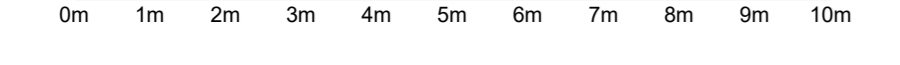
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date	2020-8-31	
drawn	NORR	dessiné
date	2020-8-31	
approved	NORR	approuvé
date	2022-09-01	
sender		Sourceur
title		
no. du projet		
no. du dessin		

R.056687.005

M53-02



**1
M53-02** HVAC PIPING SECOND FLOOR
SCALE: 1:100



DRAWING NOTES:

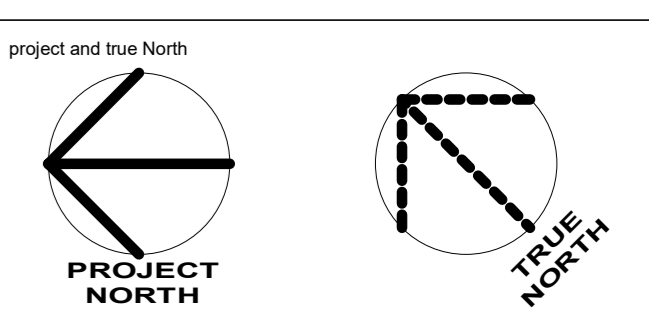
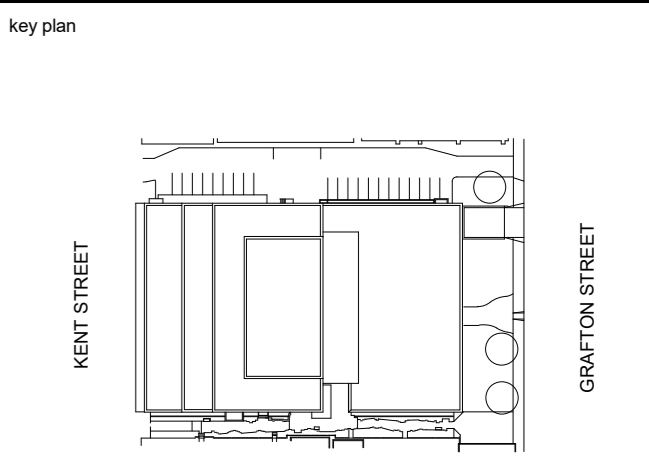
- 650 HWS FROM BELOW, 400 UP.
- 400 HWR FROM ABOVE, 650 DOWN.
- 1000 CHWS FROM BELOW, 800 UP.
- 800 CHWR FROM ABOVE, 1000 DOWN.
- 200 HWS UP THROUGH FLOOR TO SERVICE RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.
- 200 HWR DOWN THROUGH FLOOR FROM RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.
- 200 HWS/HWR DOWN TO SERVE RADS.
- 200 HWS/HWS TIGHT TO COLUMN, RUN DOWN TO SERVICE RADS ON THE NORTH SIDE. PROVIDE TRIM TO SUIT, RUN PIPING INSIDE TRIM.
- 200 HWS/HWR FROM BELOW. REFER TO IN-FLOOR RADIATOR DETAIL.
- 200 HWR DOWN. RE-USE EXISTING FLOOR OPENING.
- 200 HWS FROM BELOW. RE-USE EXISTING FLOOR OPENING.
- 200 HWS/HWR INSIDE PARTITION WALL, DOWN TO SERVICE RADS.
- 200 HWS/HWR UP THROUGH FLOOR TO SERVE RADIATOR AT LEVEL ABOVE. PROVIDE NEW FLOOR OPENING, SCAN FLOOR PRIOR TO CORING AND COORDINATE OPENING WITH RADIATOR LOCATION. PIPING PENETRATES THROUGH FLOOR INTO THE RADIATOR TROUGH.
- FOR HVAC PIPING, PLUMBING PIPING AND HVAC DUCTING WITHIN RISER SHAFT, REFER TO PART PLAN 4 ON DRAWING M60-01.
- 250 CHWS/CHWR FROM BELOW.
- RESERVED.
- PROVIDE CV ON ALL HWR AND CHWR BRANCHES UPSTREAM OF SHUT-OFF VALVE.
- CV LOCATED IN CEILING SPACE AT LEVEL BELOW.
- LEAVE THIS SECTION BLANK. PROVIDE TRIM ONLY TO COVER THE PIPING.

NOTES:

- PROVIDE RADIATORS TO MEET THE CAPACITY REQUIREMENTS NOTED ON THE DRAWING AND TO COMPLY WITH DIMENSIONS AND TYPE ACCORDING TO THE SCHEDULE.
- RADIATORS TO BE CV ON ALL ACCESSORIES AND TRIMS NECESSARY TO MAINTAIN CONTINUOUS APPEARANCE ALONG EXTERIOR WALLS.
- INSTALL HWS/HWR PIPING THROUGH EXISTING FLOOR OPENINGS TO SERVE RADIATORS ON LEVEL ABOVE AS NOTED. PATCH UNUSED FLOOR OPENINGS. PROVIDE SAME.
- MECHANICAL CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO X-RAY SCAN SLAB PRIOR TO CORING.
- SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING.
- ALL THERMOSTATS IN PUBLIC AREAS TO BE EITHER BLANK PLATE-TYPE SENSORS OR PROVIDED WITH PROTECTIVE GUARDS.

GENERAL NOTES:

- DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL FLOOR PLANS AND SPECIFICATIONS.
- ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
- CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
- ENSURE NOT TO DISTURB SERVICES COVERING AREAS NOT INCLUDED IN THE SCOPE. ALL WORK MUST BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR SHALL VISIT SITE TO EXAMINE EXISTING CONDITIONS.
- CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
- ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLenums) SHALL MEET AND EXCEED THE N.B.C REQUIREMENTS FLAME AND SMOKE SPREAD/DEVELOPMENT RATINGS.
- CONTRACTOR TO PROVIDE CONNECTION TO RELOCATED EXISTING EQUIPMENT AND ADDED EQUIPMENT DIRECTLY TO BUILDING HVAC SYSTEM AND UPDATE THE BMS ARCHITECTURE AS REQUIRED.
- CONTRACTOR TO REMOVE ALL MECHANICAL EQUIPMENT AND INSTALL NEW ONES; SALVAGE AND REINSTALL ONLY WHEN SPECIFICALLY INDICATED.
- MECHANICAL CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO X-RAY SCAN SLAB PRIOR TO CORING.
- SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING.
- ALL THERMOSTATS IN PUBLIC AREAS TO BE EITHER BLANK PLATE-TYPE SENSORS OR PROVIDED WITH PROTECTIVE GUARDS.



Project and True North

PROJECT NORTH

Project Legend

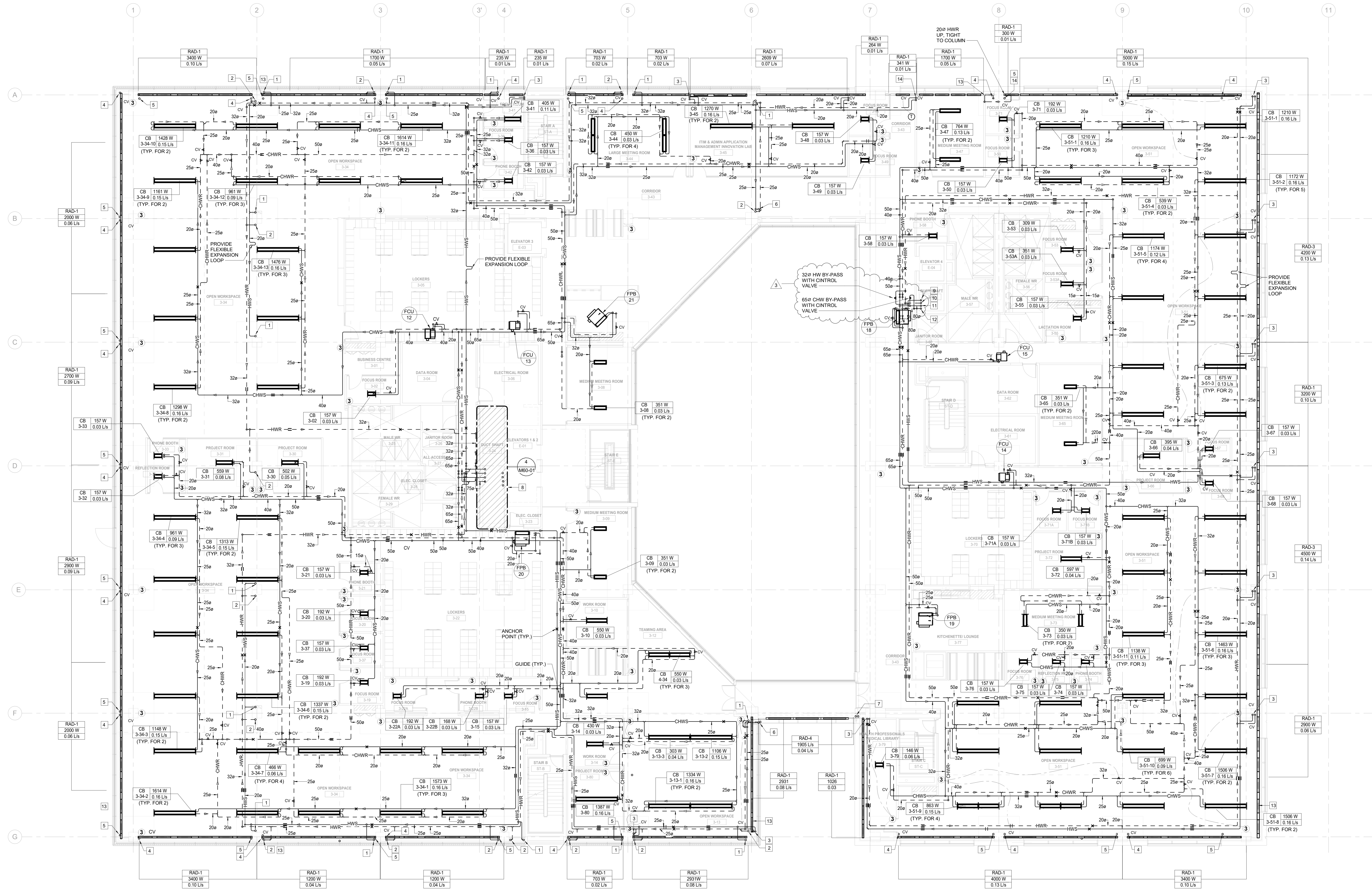
Revisions	no.	description	date
3	ADDENDUM #10	2022-09-07	
2	ADDENDUM #7	2022-09-03	
1	ADDENDUM #5	2022-07-25	
0	ISSUED FOR TENDER	2022-05-27	

PROJECT
**DANIEL J MACDONALD
MODERNIZATION**

161 GRAFTON STREET
CHARLOTTETOWN, PEI C1A 1L1

drawing
**HYDRONIC - THIRD
FLOOR NEW WORK**

designed NORR	compu
date 2020-8-31	
drawn NORR	dessiné
date 2020-8-31	
approved NORR	approuvé
date 2022-09-01	
Tender	Soumission
PWGSC Project Manager	Administrateur de projets TPSCG
project number	no. du projet
R.056687.005	
drawing no.	no. du dessin
M53-03	



1 HVAC PIPING THIRD FLOOR
M53-03
SCALE: 1:100

- DRAWING NOTES:**
- 200 HWS UP THROUGH FLOOR TO SERVICE RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.
 - 200 HWR DOWN THROUGH FLOOR FROM RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.
 - 200 HWS/HWR DOWN TO SERVE RADS.
 - 200 HWR DOWN. RE-USE EXISTING FLOOR OPENING.
 - 200 HWS FROM BELOW. RE-USE EXISTING FLOOR OPENING.
 - 200 HWS/HWR UP TO SERVE THE SERVICE SPACE RADS. C/W ISOLATION VALVES LOCATED INSIDE THE "T-BAR" CEILING SPACE PROVIDE NEW FLOOR OPENINGS. SCAN FLOOR PRIOR TO CORING AND COORDINATE WITH STRUCTURAL.
 - 200 HWS/HWR FROM BELOW. PROVIDE NEW FLOOR OPENINGS. SCAN FLOOR PRIOR TO CORING AND COORDINATE WITH STRUCTURAL. REFER TO IN-FLOOR RADIATOR PIPING DETAIL.
 - FOR HVAC PIPING, PLUMBING PIPING AND HVAC DUCTING WITH RISER SHAFT. REFER TO PART PLAN 4 ON DRAWING M60-01.

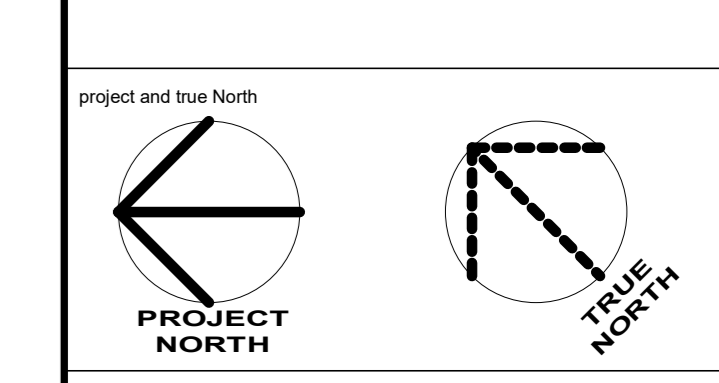
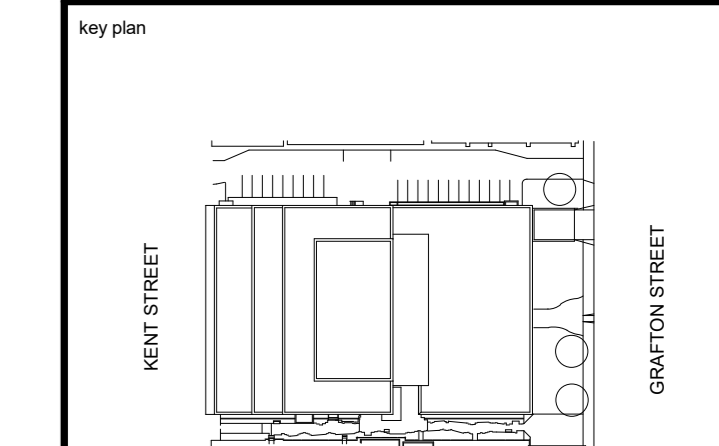
- DRAWING NOTES:**
- 320 HWS FROM BELOW.
 - 320 HWR DOWN.
 - 800 CHWS FROM BELOW.
 - 800 CHWR DOWN.
 - LEAVE THIS SECTION BLANK. PROVIDE TRIM ONLY TO COVER THE PIPING.
 - RUN PIPE THROUGH WALL TO SERVICE RADIATOR IN ADJACENT ROOM.

NOTES:

- PROVIDE RADIATORS TO MEET THE CAPACITY REQUIREMENTS NOTED ON THE DRAWING AND TO COMPLY WITH DIMENSIONS AND TYPE ACCORDING TO THE SCHEDULE.
- RADIATORS TO BE C/W ALL ACCESSORIES AND TRIMS NECESSARY TO MAINTAIN CONTINUOUS APPEARANCE ALONG EXTERIOR WALLS.
- INSTALL HWS/HWR PIPING THROUGH EXISTING FLOOR OPENINGS TO SERVICE RADIATORS ON LEVEL ABOVE AS NOTED. PATCH UNUSED FLOOR OPENINGS. PROVIDE SAME END OR OPPOSITE END CONNECTIONS AS NECESSARY TO SUIT INSTALLATION AS SHOWN ON THE DRAWING.
- PROVIDE CONTROL VALVES FOR RADIATORS IN EACH ZONE. REFER TO RADIATOR PIPING DETAILS FOR CONTROL VALVES LOCATION AND PIPING ARRANGEMENTS.

GENERAL NOTES:

- DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL FLOOR PLANS AND SPECIFICATIONS.
- ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
- CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
- ENSURE NOT TO DISTURB SERVICES COVERING AREAS NOT INCLUDED IN THE SCOPE. ALL WORK MUST BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR SHALL VISIT SITE TO EXAMINE EXISTING CONDITIONS.
- CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
- ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLenums) SHALL MEET AND EXCEED THE N.B.C REQUIREMENTS FLAME AND SMOKE SPREAD/DEVELOPMENT RATINGS.
- CONTRACTOR TO PROVIDE CONNECTION TO RELOCATED EXISTING EQUIPMENT AND ADDED EQUIPMENT DIRECTLY TO BUILDING HVAC SYSTEM AND UPDATE THE BMS ARCHITECTURE AS REQUIRED.
- CONTRACTOR TO REMOVE ALL MECHANICAL EQUIPMENT AND INSTALL NEW EQUIPMENT; SALVAGE AND REINSTALL ONLY WHEN SPECIFICALLY INDICATED.
- MECHANICAL CONTRACTOR TO X-RAY SCAN SLAB PRIOR TO CORING.
- SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING TO SUIT INSTALLATION. EXPANSION CONTROL SHOWN ON THE DRAWING ONLY SUGGESTS THE DESIGN INTENT.
- ALL THERMOSTATS IN PUBLIC AREAS TO BE EITHER BLANK PLATE-TYPE SENSORS OR PROVIDED WITH PROTECTIVE GUARDS.



project legend

revisions	date	project
2	ADDENDUM # 10	2022-09-01
1	ADDENDUM # 5	2022-07-25
0	ISSUED FOR TENDER	2022-05-07

**DANIEL J MACDONALD
MODERNIZATION**

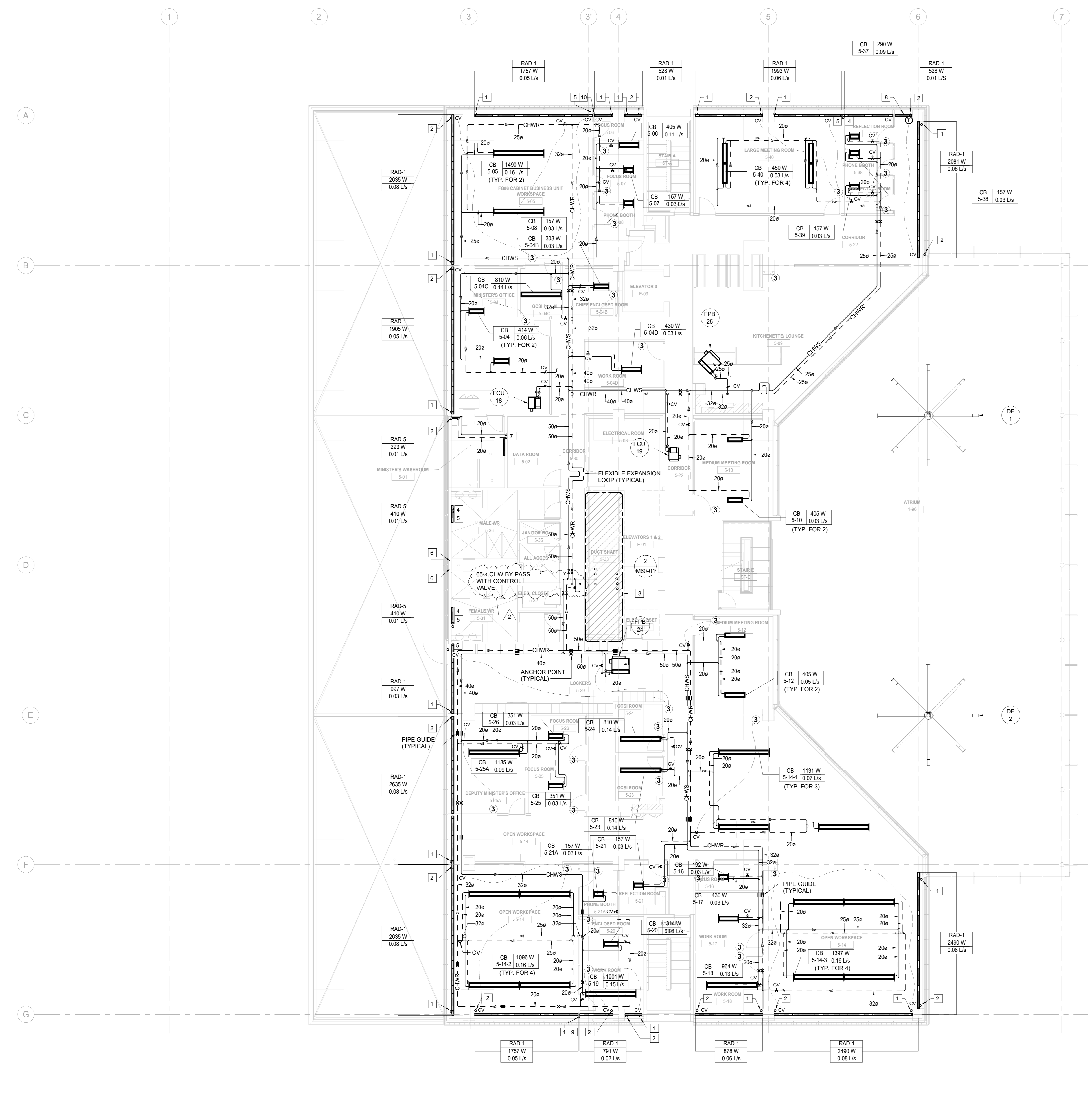
161 GRAFTON STREET
CHARLOTTETOWN, PEI, C1A 1L1

**HYDRONIC - FIFTH
FLOOR NEW WORK**

designed	drawn	date	approved	date	approved	date	approved	date	approved
NORR	NORR	2020-8-31	NORR	2020-8-31	NORR	2022-09-01	NORR	2022-09-01	NORR

Project number: **R.056687.005**

Drawing no. **M53-05**



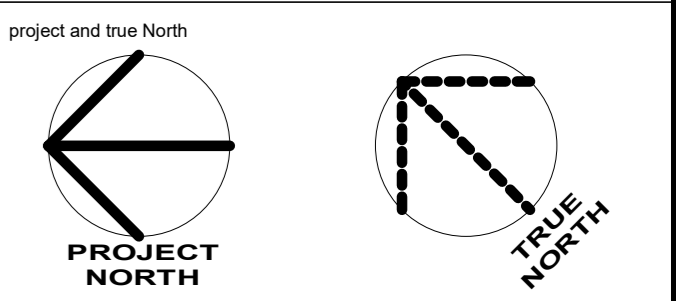
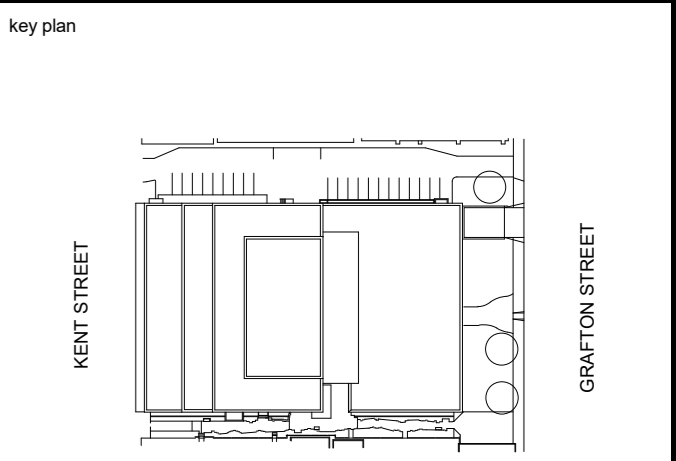
1 HVAC PIPING FIFTH FLOOR
SCALE: 1:100

- DRAWING NOTE**
- 200 HWS FROM BELOW. RE-USE EXISTING FLOOR OPENING.
 - 200 HWR DOWN. RE-USE EXISTING FLOOR OPENING.
 - FOR HVAC AND DOMESTIC WATER PIPING SIZES REFER TO DRAWING M80-01.
 - 200 HWS FROM LEVEL BELOW. PROVIDE NEW FLOOR OPENING. SCAN FLOOR PRIOR TO CORING AND COORDINATE OPENING WITH THE RADIATOR LOCATION.
 - 200 HWR TO LEVEL BELOW. PROVIDE NEW FLOOR OPENING. SCAN FLOOR PRIOR TO CORING AND COORDINATE OPENING WITH THE RADIATOR LOCATION.
 - PATCH UNUSED FLOOR OPENINGS.

- DRAWING NOTE**
- 200 HWS/R DOWN WITHIN WALL TO SERVICE RADIATOR.
 - 200 HWR INSIDE THE WALL TO EXISTING FLOOR OPENING. PROVIDE TRIM TO COVER PIPE AND OPENING AS REQUIRED.
 - 200 HWS INSIDE THE WALL TO RADIATOR IN ADJACENT ROOM.
 - 200 HWR INSIDE THE WALL FROM RADIATOR IN ADJACENT ROOM.

- NOTES:**
- PROVIDE RADIATORS TO MEET THE CAPACITY REQUIREMENTS NOTED ON THE DRAWINGS AND TO COMPLY WITH DIMENSIONS AND TYPE ACCORDING TO THE SCHEDULE.
 - RADIATORS TO BE CW ALL ACCESSORIES AND TRIMS NECESSARY TO MAINTAIN CONTINUOUS APPEARANCE ALONG EXTERIOR WALLS.
 - INSTALL HWS/HWR PIPING THROUGH EXISTING FLOOR OPENINGS TO SERVICE RADIATORS ON LEVEL ABOVE AS NOTED. PATCH UNUSED FLOOR OPENINGS. PROVIDE SAME END OR OPPOSITE END CONNECTIONS AS NECESSARY TO SUIT INSTALLATION AS SHOWN ON THE DRAWING.
 - PROVIDE CONTROL VALVES FOR RADIATORS IN EACH ZONE. REFER TO RADIATOR PIPING DETAILS FOR CONTROL VALVES LOCATION AND PIPING ARRANGEMENTS.

- GENERAL NOTES:**
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL FLOOR PLANS AND SPECIFICATIONS.
 - ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
 - CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
 - ENSURE NOT TO DISTURB SERVICES COVERING AREAS NOT INCLUDED IN THE SCOPE. ALL WORK MUST BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR SHALL VISIT SITE TO EXAMINE EXISTING CONDITIONS.
 - CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
 - ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLENUM) SHALL MEET AND EXCEED THE N.B.C. REQUIREMENTS FLAME AND SMOKE SPREAD/DEVELOPMENT RATINGS.
 - CONTRACTOR TO PROVIDE CONNECTION TO RELOCATED EXISTING EQUIPMENT AND ADDED EQUIPMENT DIRECTLY TO BUILDING HVAC SYSTEM AND UPDATE THE BMS ARCHITECTURE AS REQUIRED.
 - CONTRACTOR TO REMOVE ALL MECHANICAL EQUIPMENT AND INSTALL NEW ONES. SALVAGE AND REINSTALL ONLY WHEN SPECIFICALLY INDICATED.
 - MECHANICAL CONTRACTOR TO X-RAY SCAN SLAB PRIOR TO CORING.
 - SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING TO SUIT INSTALLATION. EXPANSION CONTROL SHOWN ON THE DRAWING ONLY SUGGESTS THE DESIGN INTENT.
 - ALL THERMOSTATS IN PUBLIC AREAS TO BE EITHER BLANK PLATE-TYPE SENSORS OR PROVIDED WITH PROTECTIVE GUARDS.



project legend

revisions	date
2	2022-09-01
1	2022-08-03
0	2022-06-07

project
**DANIEL J MACDONALD
 MODERNIZATION**

161 GRAFTON STREET
 CHARLOTTETOWN, PEI C1A 1L1

drawing
**HYDRONIC -
 PENTHOUSE FLOOR
 NEW WORK**

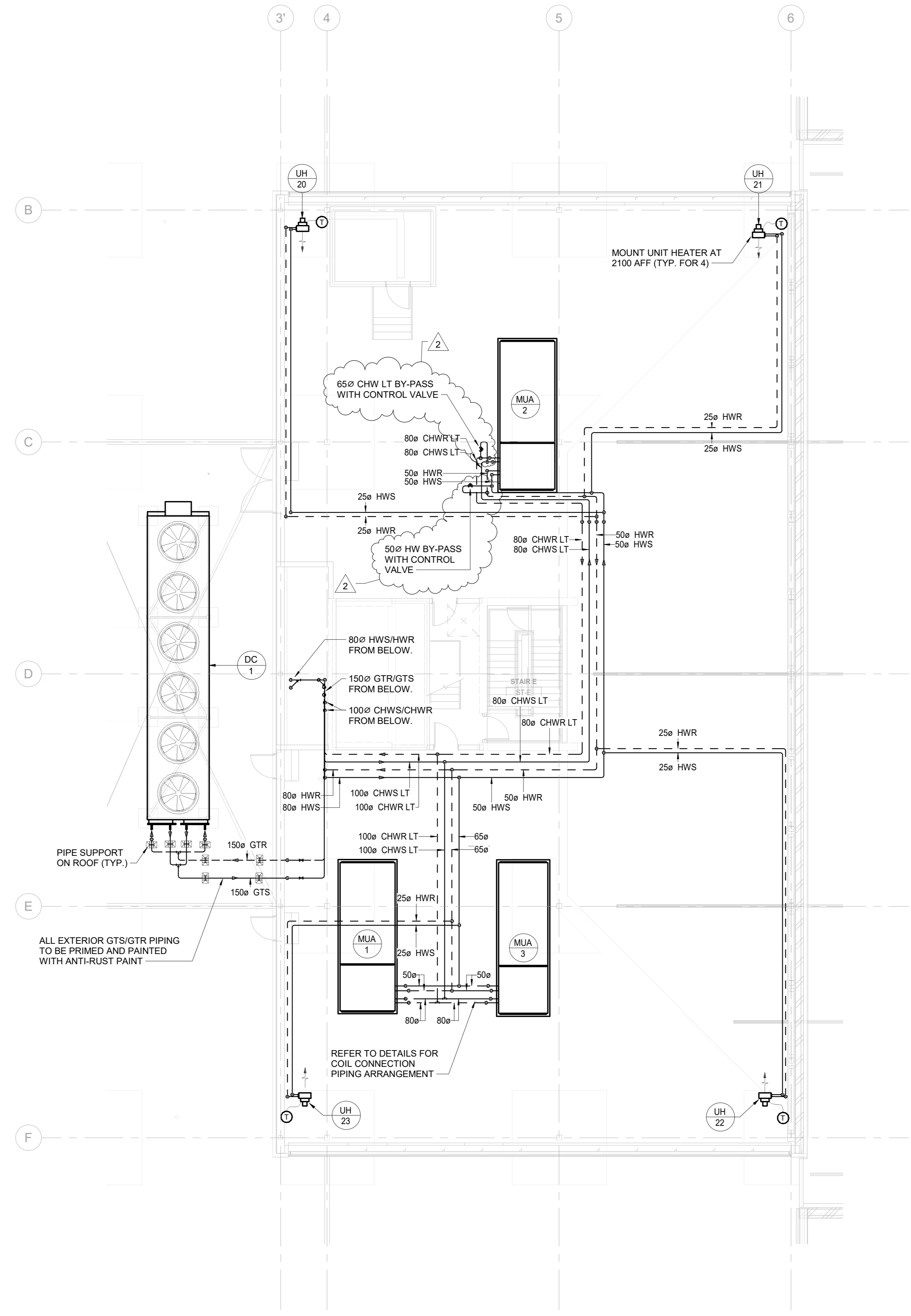
designed NORR
 date 2020-8-31

drawn NORR
 date 2020-8-31

approved NORR
 date 2022-09-01

Tender
 PWGSC Project Manager / Administrateur de projets TPSCG
 project number no. du projet

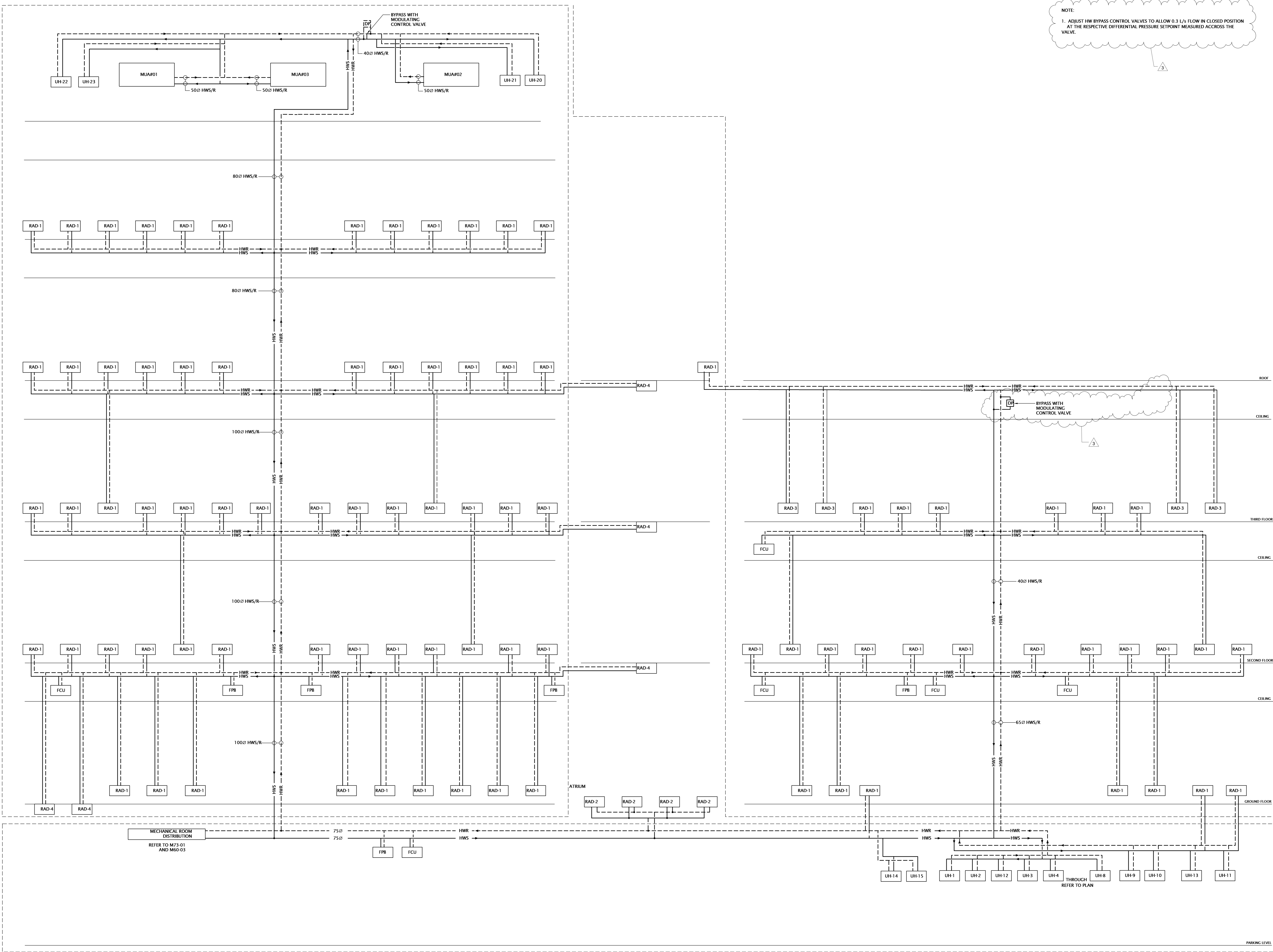
R.056687.005
 drawing no. no. du dessin
M53-06



1 HVAC PIPING PENTHOUSE FLOOR
 SCALE: 1:100
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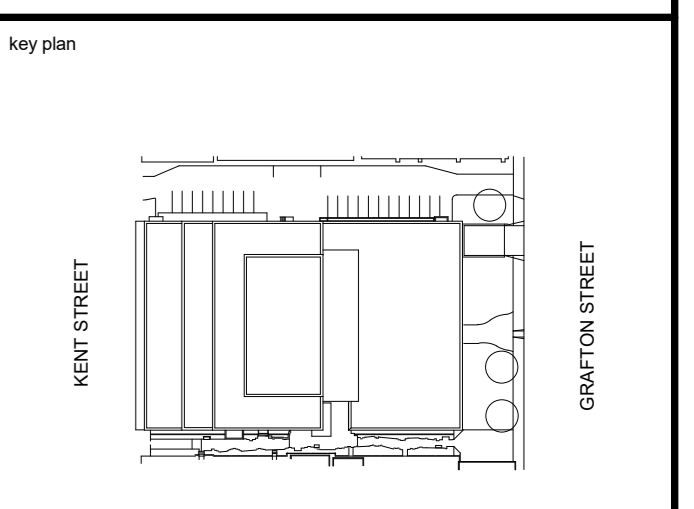
- GENERAL NOTES:
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL FLOOR PLANS AND SPECIFICATIONS.
 - ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
 - CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
 - ENSURE NOT TO DISTURB SERVICES COVERING AREAS NOT INCLUDED IN THE SCOPE. ALL WORK MUST BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR SHALL VISIT SITE TO EXAMINE EXISTING CONDITIONS.
 - CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
 - ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLENUM) SHALL MEET AND EXCEED THE N.B.C REQUIREMENTS FLAME AND SMOKE SPREAD/DEVELOPMENT RATINGS.
 - CONTRACTOR TO PROVIDE CONNECTION TO RELOCATED EXISTING EQUIPMENT AND ADDED EQUIPMENT DIRECTLY TO BUILDING HVAC SYSTEM AND UPDATE THE BMS ARCHITECTURE AS REQUIRED.
 - CONTRACTOR TO REMOVE ALL MECHANICAL EQUIPMENT AND INSTALL NEW ONES; SALVAGE AND REINSTALL ONLY WHEN SPECIFICALLY INDICATED.
 - MECHANICAL CONTRACTOR TO X-RAY SCAN SLAB PRIOR TO CORING.
 - SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING.

NOTE:
1. ADJUST HW BYPASS CONTROL VALVES TO ALLOW 0.3 L/S FLOW IN CLOSED POSITION AT THE RESPECTIVE DIFFERENTIAL PRESSURE SETPOINT MEASURED ACROSS THE VALVE.



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project and true North

project legend

revisions	date
3	ADDENDUM #10 2022-09-01
2	ADDENDUM #7 2022-08-03
1	ADDENDUM #2 2022-06-29
0	ISSUED FOR TENDER 2022-05-27

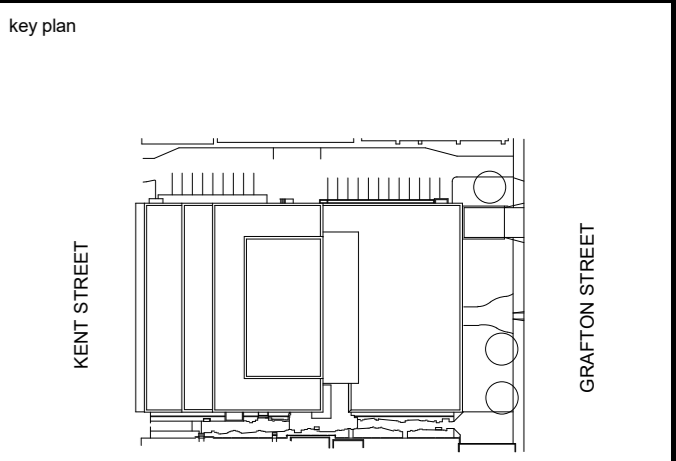
project
DANIEL J MACDONALD MODERNIZATION

161 GRAFTON STREET
CHARLOTTETOWN, PEI C1A 1L1

drawing
HYDRONIC DISTRIBUTION - HEATING

designed NORR
date 2020-8-31
drawn NORR
date 2020-8-31
approved NORR
date 2022-09-01
Tender Soumission
PWGSC Project Manager Administrateur de projets TPSC
project number no. du projet
R.056687.005

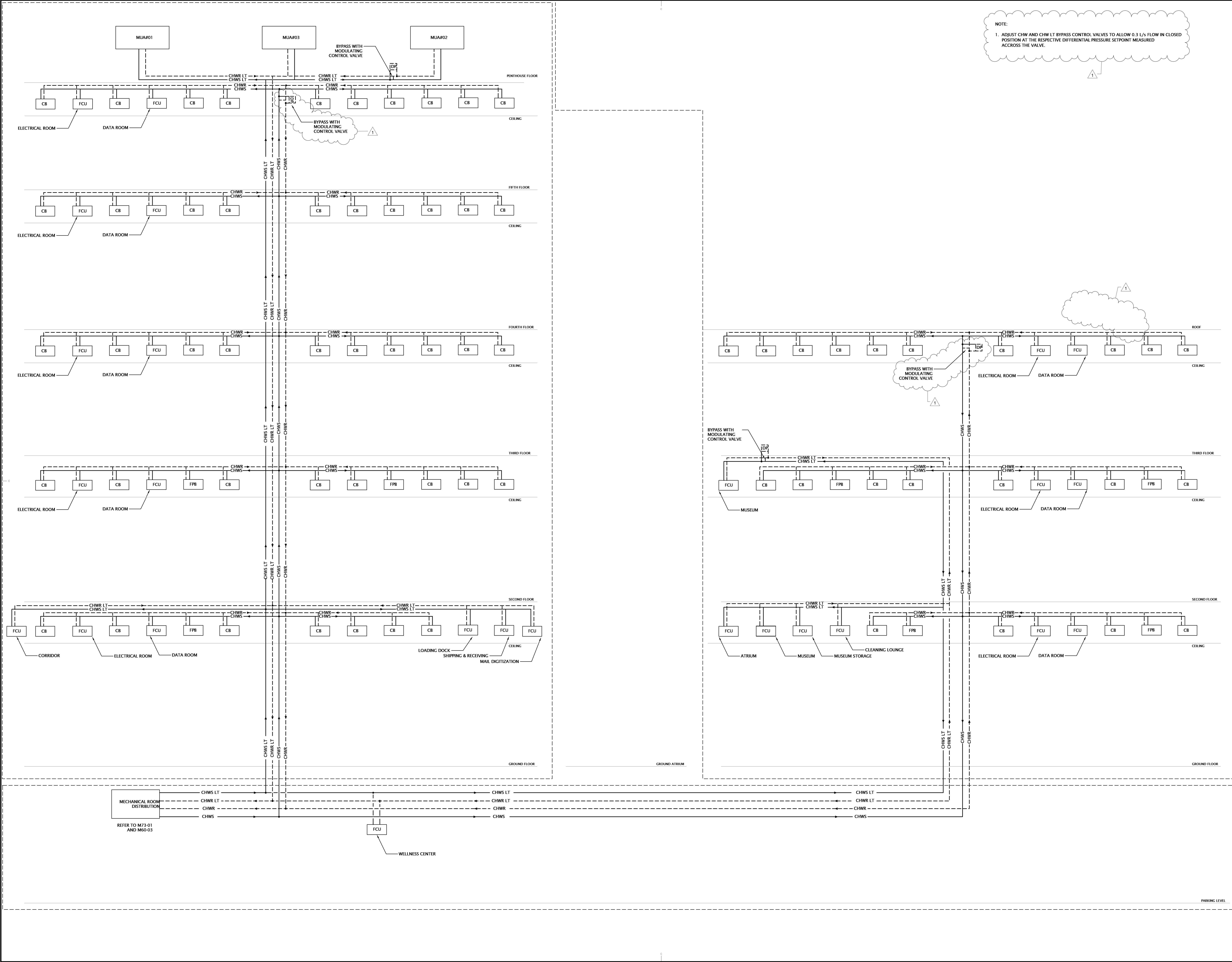
drawing no. no. du dessin
M73-02



Project and true North

Project legend

NOTE:
 1. ADJUST CHW AND CHW LT BYPASS CONTROL VALVES TO ALLOW 0.3 L/S FLOW IN CLOSED POSITION AT THE RESPECTIVE DIFFERENTIAL PRESSURE SETPOINT MEASURED ACROSS THE VALVE.



revisions	date
1	2022-09-01
2	2022-09-07

project
DANIEL J MACDONALD MODERNIZATION

161 GRAFTON STREET
 CHARLOTTETOWN, PEI C1A 1L1
HYDRONIC DISTRIBUTION - COOLING

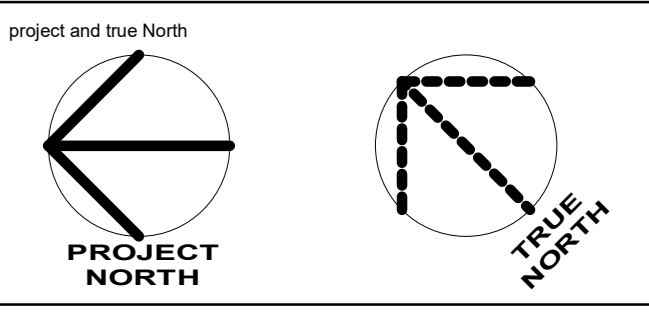
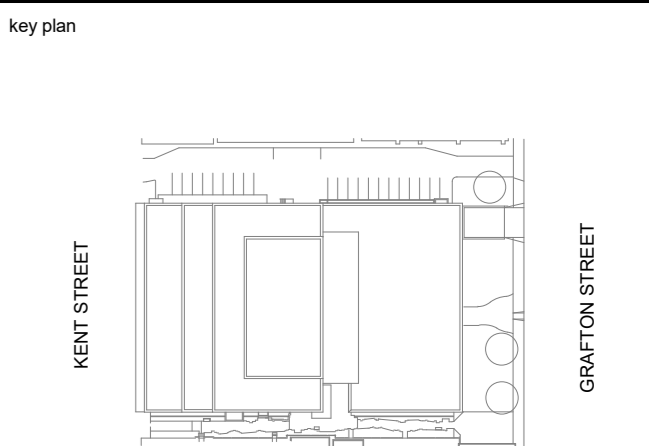
designed Designer	conçu
date	2020-12-4
drawn	Author
date	2020-12-4
approved Checker	approuvé
date	2022-09-01

Tender / Soumission
 PWGSC Project Manager / Administrateur de projets TPSGC
 project number / no. du projet

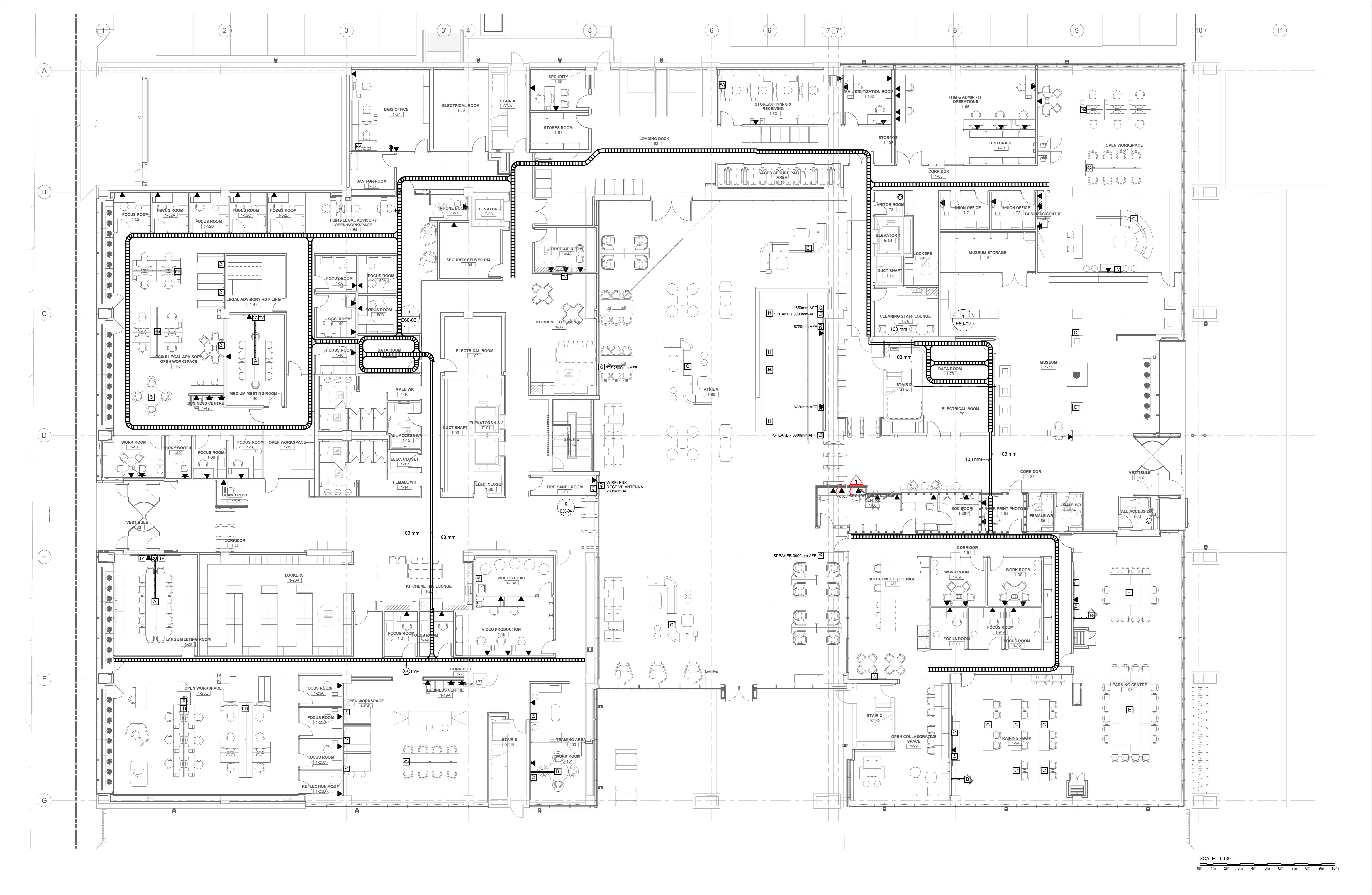
R.056687.005
 drawing no. / no. du dessin
M73-03

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Toronto, ON Canada M4W 3R8
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PROJECT NORTH
TRUE NORTH



SCALE: 1:100
0m 2m 4m 6m 8m 10m

GENERAL NOTES - COMMUNICATIONS

- A THESE DRAWINGS AND SPECIFICATIONS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, INTERIOR DESIGNER'S, MECHANICAL, AND OTHER DIVISIONS DRAWINGS. ALL ELECTRICAL WORK SHALL COMPLY WITH OWNER'S REQUIREMENTS AND BASE BUILDING STANDARDS.
- B REFER TO COMMUNICATION RISER DIAGRAM FOR ALL CONDUIT SLEEVE QUANTITIES AND REQUIREMENTS.
- C COMMUNICATION (VOICE AND/OR DATA) SYSTEM CABLES AND COVERPLATES WITH CONNECTORS ARE NOT IN THIS CONTRACT AND WILL BE SUPPLIED AND INSTALLED BY OTHERS, UNLESS NOTED OTHERWISE. THIS CONTRACTOR TO PROVIDE SYSTEM OF EMPTY CONDUITS AND OUTLET BOXES: DOUBLE GANG BOX (101mm X 101mm X 54mm) COMPLETE WITH 27mm EMPTY CONDUIT WITH PULL WIRE SPECIFIED FOR EACH VOICE/DATA OUTLET TERMINATED AT THE COMMUNICATION CABLE TRAY.
- D COMMUNICATION TRAY TO BE WIRE BASKET TYPE, 100 MM (4") DEEP, WIDTH AS SHOWN ON THE DRAWINGS, AND COMPLETE WITH COUPLINGS, FITTINGS, BENDS, CONNECTORS, REDUCERS, COVER, ETC., AND ALL NECESSARY MOUNTING ACCESSORIES.

DRAWING KEYNOTES

- C4 COMMUNICATIONS CABLE TRAY TO BE MOUNTED 3000mm AFF. REFER TO DRAWING E03-04 FOR DETAILS AND SPECIFICATION FOR CLEARANCE REQUIREMENTS IN CEILING SPACE.

revisions	date
1	2022-09-01
2	2022-09-07

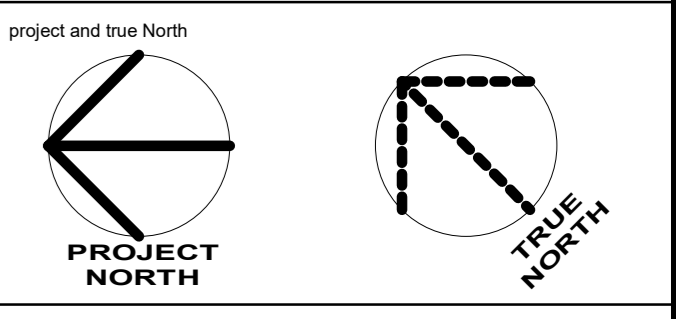
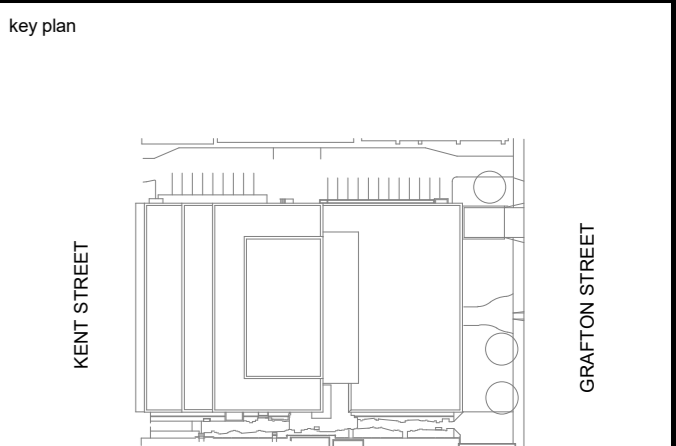
ADDITIONAL #10
RELEASE FOR TENDER

PROJECT
**DANIEL J MACDONALD
MODERNIZATION**

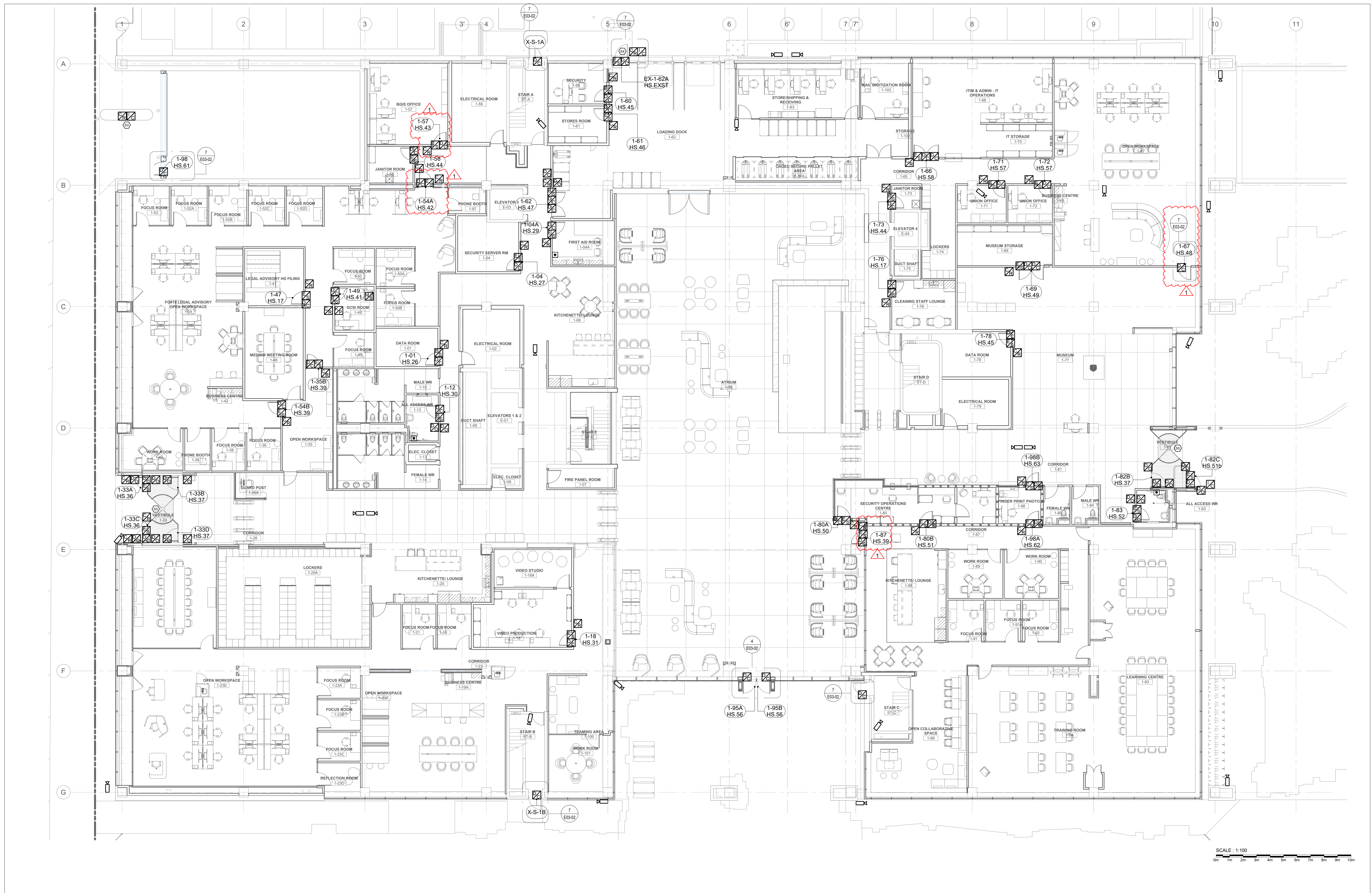
161 GRAFTON STREET
CHARLOTTETOWN, PEI C1A 1L1

COMMUNICATIONS PLAN - MAIN FLOOR

designed	conpu
NORR	
date	01/02/19
drawn	NORR
date	01/02/19
approved	SR
date	2022-05-27
Tender	Submission
PWGSC Project Manager	Administrateur de projets TPSCG
project number	no. du projet
R.056687.005	
drawing no.	no. du dessin
E40-01	



Project legend



GENERAL NOTES - SECURITY

- A THESE DRAWINGS AND SPECIFICATIONS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, INTERIOR DESIGNER'S, MECHANICAL, AND OTHER DIVISIONS DRAWINGS. ALL ELECTRICAL WORK SHALL COMPLY WITH OWNERS' REQUIREMENTS AND BASE BUILDING STANDARDS.
- B AS REQUIRED, MAKE OPERATIONAL - DENOTES ELECTRICAL INSTALLATION TO SUIT SITE CONDITIONS TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS AND INSTALLATION TO INCLUDE ALL NECESSARY MATERIAL, EQUIPMENT AND LABOUR (ALTHOUGH NOT SHOWN ON THE DRAWINGS) TO MAKE IT OPERATIONAL. NO ALLOWANCES WILL BE MADE SUBSEQUENTLY FOR ANY CONSIDERATIONS OVERLOOKED.
- C UNLESS NOTED OTHERWISE ALL WIRING AND CONDUITS TO BE CONCEALED.
- D ALL ELECTRICAL EQUIPMENT (LIGHTING FIXTURES, POWER EQUIPMENT AND CABLES) OR ANY OTHER CONTRIVANCE THAT GENERATES EITHER ELECTROMAGNETIC FIELD OR ELECTROMAGNETIC INTERFERENCE ARE TO BE KEPT AT LEAST 12" AWAY FROM THE COMMUNICATION CABLE TRAYS. INSTALL ELECTRICAL EQUIPMENT AND CABLES TO CONFORM TO THE ABOVE REQUIREMENTS.

GENERAL NOTES - SECURITY

- E PROVIDE SYSTEM OF CONDUITS AND JUNCTION BOXES FOR SECURITY SYSTEM INCLUDING SUPPLY, INSTALLATION, WIRING AND FINAL TERMINATION OF SECURITY SYSTEM DEVICES. EXACT LOCATION OF ALL DEVICES TO BE DETERMINED ON SITE IN COORDINATION WITH ARCHITECT / INTERIOR DESIGNER AND SECURITY SYSTEM CONTRACTOR. NOT ALL DEVICES ARE SHOWN ON THIS DRAWING (EX. DOOR CONTACTS ETC). REFER TO DOOR DETAILS FOR LOCATION AND ELEVATION OF DEVICES AND CONDUITS AT THE DOORS.
- F ALL DOORS WITH DOOR IDENTIFICATION TAG ON THIS DRAWING ARE TO BE PROVIDED WITH CONDUIT AND ROUGHINS FOR SECURITY AND DOOR HARDWARE DEVICES. REFER TO DRAWING E03-02 FOR DOOR HARDWARE SET AND DETAIL THAT CORRESPONDS WITH DOOR NUMBER. NOT ALL DEVICES ARE SHOWN ON DRAWING LAYOUT. REFER TO DETAIL FOR EXACT REQUIREMENTS AND REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE AND SPECIFICATIONS TO PROVIDE ALL REQUIRED CONDUIT AND ROUGHINS.

DRAWING KEYNOTES

- S3 NEW CARD READER AND INTERCOM TO BE MOUNTED ON NEW POST.
- S4 EXISTING DOOR INDICATED IS EQUIPPED WITH CARD READER AND INTERCOM. EXISTING ROUGHINS TO BE RE-USED AND NOT SHOWN ON DOOR CONTACT DOOR DETAIL.
- S5 REVOLVING DOOR TO BE CW 27mm CONDUIT AND SECURITY CABLES FOR ACCESS CONTROL.

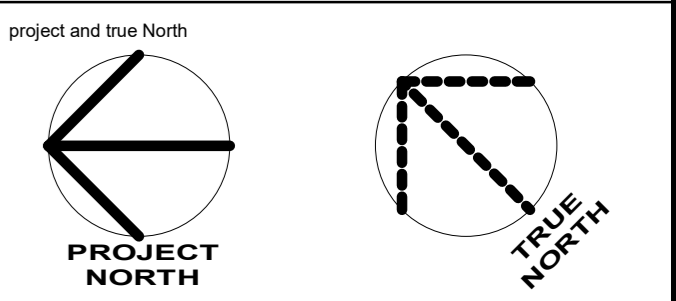
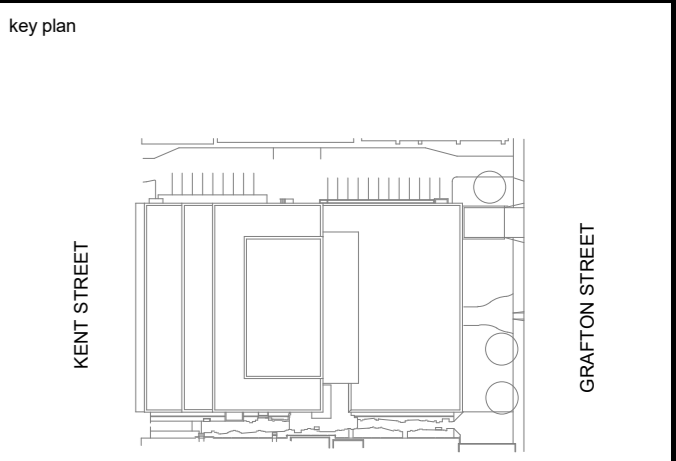
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1	2022-09-07
2	2022-09-07

PROJECT
**DANIEL J MACDONALD
 MODERNIZATION**

161 GRAFTON STREET
 CHARLOTTETOWN, PEI C1A 1L1

drawing
**SECURITY PLAN - MAIN
 FLOOR**

designed	conpu
NORR	01/02/19
date	dessiné
NORR	01/02/19
date	approuvé
NORR	2022-09-01
Tender	Submission
FWGSC Project Manager	Administrateur de projets TPSC
project number	no. du projet
R.056687.005	
drawing no.	no. du dessin
E50-01	



project legend

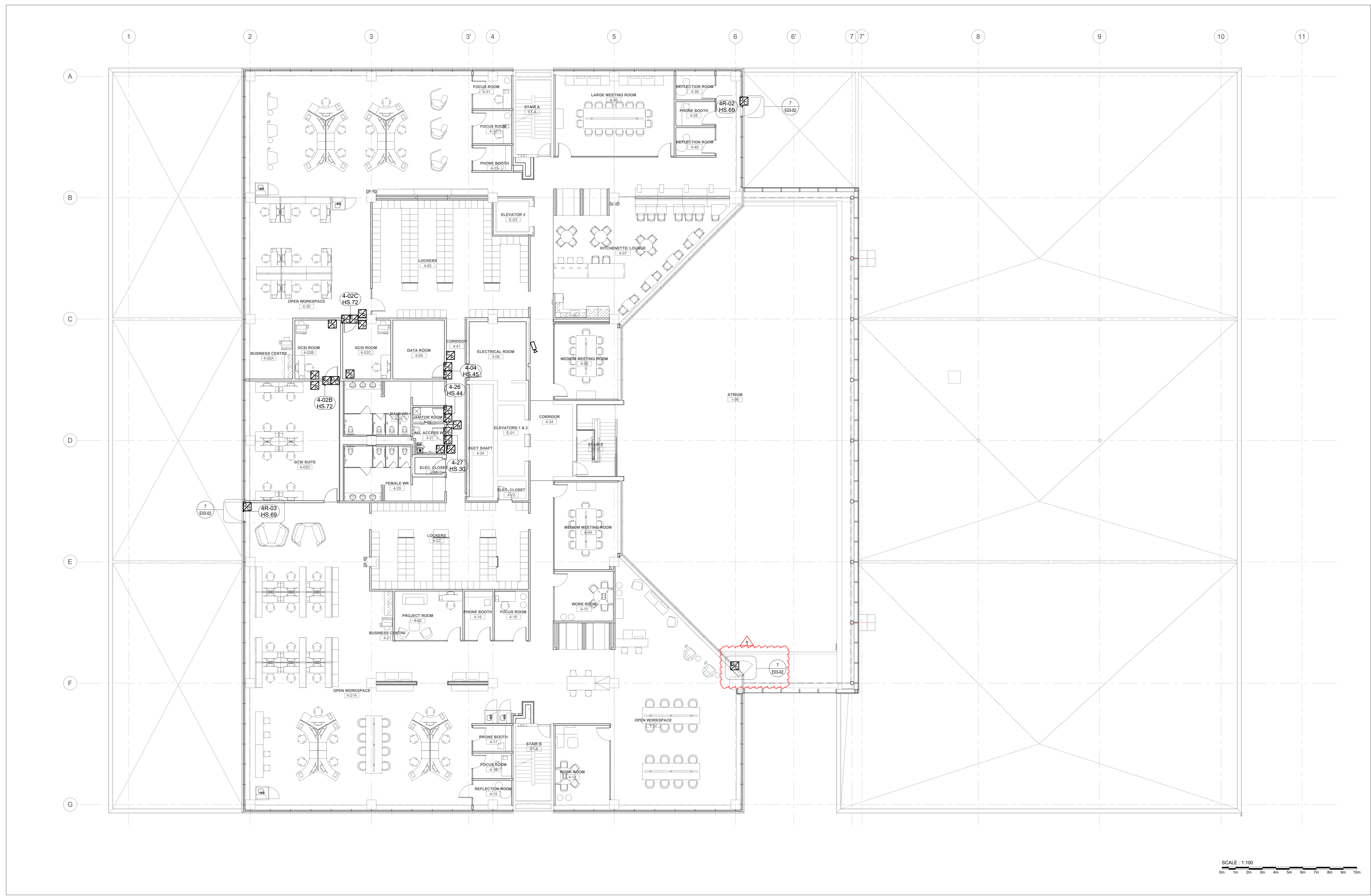
revisions	date
1	ADDENDUM #10
2	ISSUED FOR TENDER

project
**DANIEL J MACDONALD
 MODERNIZATION**

161 GRAFTON STREET
 CHARLOTTETOWN, PEI C1A 1L1

drawing
**SECURITY PLAN -
 FOURTH FLOOR**

designed NORR	conçu
date 01/02/19	
drawn NORR	dessiné
date 01/02/19	
approved SR	approuvé
date 2022-09-01	
Tender	Submission
PWGSC Project Manager	Administrateur de projets TPSCG
project number	no. du projet
R.056687.005	
drawing no.	no. du dessin
E50-04	



SCALE: 1:100
 0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

GENERAL NOTES - SECURITY

A THESE DRAWINGS AND SPECIFICATIONS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, INTERIOR DESIGNER'S, MECHANICAL, AND OTHER DIVISIONS DRAWINGS. ALL ELECTRICAL WORK SHALL COMPLY WITH OWNERS REQUIREMENTS AND BASE BUILDING STANDARDS.

B AS REQUIRED, MAKE OPERATIONAL - DENOTES ELECTRICAL INSTALLATION TO SUIT SITE CONDITIONS TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS AND INSTALLATION TO INCLUDE ALL NECESSARY MATERIAL, EQUIPMENT AND LABOUR (ALTHOUGH NOT SHOWN ON THE DRAWINGS) TO MAKE IT OPERATIONAL. NO ALLOWANCES WILL BE MADE SUBSEQUENTLY FOR ANY CONSIDERATIONS OVERLOOKED.

C UNLESS NOTED OTHERWISE ALL WIRING AND CONDUITS TO BE CONCEALED.

D ALL ELECTRICAL EQUIPMENT (LIGHTING FIXTURES, POWER EQUIPMENT AND CABLES) OR ANY OTHER CONTRIVANCE THAT GENERATES EITHER ELECTROMAGNETIC FIELD OR ELECTROMAGNETIC INTERFERENCE ARE TO BE KEPT AT LEAST 12" AWAY FROM THE COMMUNICATION CABLE TRAYS. INSTALL ELECTRICAL EQUIPMENT AND CABLES TO CONFORM TO THE ABOVE REQUIREMENTS.

GENERAL NOTES - SECURITY

E PROVIDE SYSTEM OF CONDUITS AND JUNCTION BOXES FOR SECURITY SYSTEM INCLUDING SUPPLY, INSTALLATION, WIRING AND FINAL TERMINATION OF SECURITY SYSTEM DEVICES. EXACT LOCATION OF ALL DEVICES TO BE DETERMINED ON SITE IN COORDINATION WITH ARCHITECT / INTERIOR DESIGNER AND SECURITY SYSTEM CONTRACTOR. NOT ALL DEVICES ARE SHOWN ON THIS DRAWING (REX, DOOR CONTACTS ETC). REFER TO DOOR DETAILS FOR LOCATION AND ELEVATION OF DEVICES AND CONDUITS AT THE DOORS.

F ALL DOORS WITH DOOR IDENTIFICATION TAG ON THIS DRAWING ARE TO BE PROVIDED WITH CONDUIT AND ROUGHINS FOR SECURITY AND DOOR HARDWARE DEVICES. REFER TO DRAWING E03-02 FOR DOOR HARDWARE SET AND DETAIL THAT CORRESPONDS WITH DOOR NUMBER. NOT ALL DEVICES ARE SHOWN ON DRAWING LAYOUT. REFER TO DETAIL FOR EXACT REQUIREMENTS AND REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE AND SPECIFICATIONS TO PROVIDE ALL REQUIRED CONDUIT AND ROUGHINS.

DRAWING KEYNOTES

Project No. ONBL17-0127

Daniel J MacDonald Modernization

Charlottetown, P.E.I.

Wayfinding and Signage

September 1, 2022

Fabricator to contact designer to obtain final approved files for production.



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

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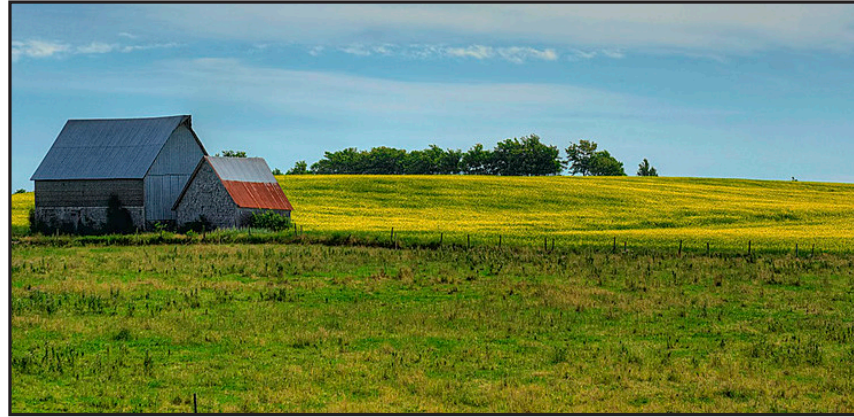
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2nd Floor	AW-5
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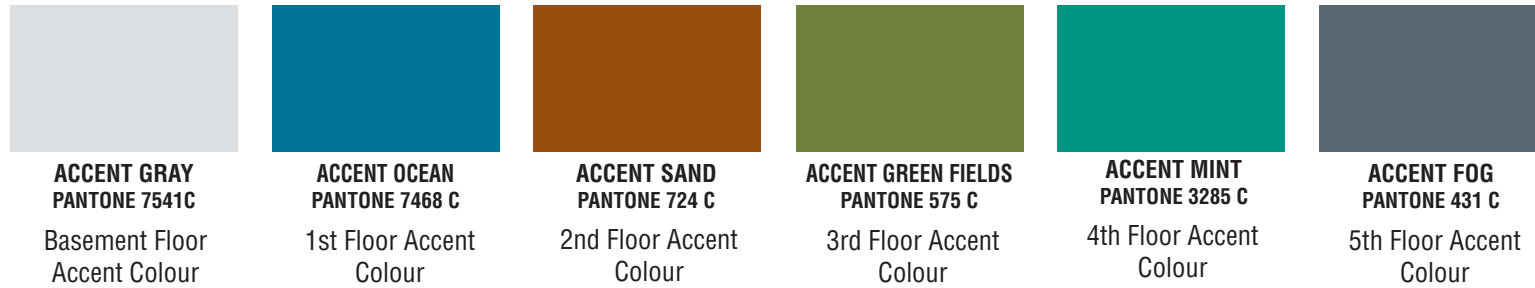
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PROJECT COLOURS



FLOOR ACCENT COLOURS



PROJECT TOPOGRAPHY

GRAPHIC FONT SET: Helvetica Neue

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 1234567890 !@£\$% &*()+ --- “” ‘’?/

GRAPHIC FONT SET: Helvetica (OTF) Condensed

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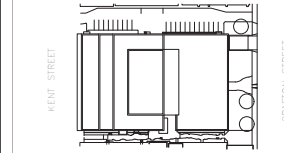
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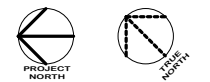
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key plan



project and true North



This drawing is design-intent only. Fabricator is responsible for fabrication and engineering details not included in these drawings. Any changes in design, materials, fabrication method or other details must be approved by the client before fabrication.

1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23
revisions.	description	date

project

**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing

**PROJECT COLOURS,
TOPOGRAPHY**

scale

As noted

project number.

ONBL17-0127

drawing no.

3

■ GENERIC PICTOGRAMS



Accessible Men Washroom



Accessible Women Washroom



Accessible Men Washroom with Baby Changing Table



Accessible Women Washroom with Baby Changing Table



All Access Washroom



All Access Washroom with Baby Changing Table



All Access Washroom with Adult Changing Table



All Access Shower



Elevator



Freight Elevator



Stair



Business Centre



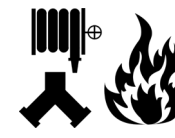
Lockers



Lactation Room



Fire Extinguisher



Fire Hose Valve



Water Bottle Fill-Up Station



Hand Washing



No Smoking



First Aid



Wellness Centre



Kitchenette



Meeting Room Medium



Meeting Room Large



Focus Room



Reflection Room



Phone Booth



Phone Booth (Barrier free)



Work Room



Project Room



Learning Centre



Teaming Area



Quiet zone
Zone de silence



Interactive Zone
Zone interactive



Training Room



Reception



Recycling



Compost



Landfill



Electric Vehicle Charging

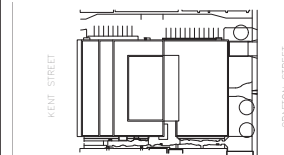


Bike Parking



CCTV

key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23

project

DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing

PROJECT PICTOGRAMS

scale

As noted

project number.

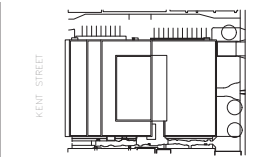
ONBL17-0127

drawing no.

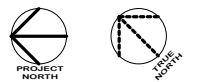
4

■ SIGNAGE TAG REFERENCE GUIDE

key plan



project and true North



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1	NORR ADDENDUM #10	2022-09-01
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revisions.	description	date

project

**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing

**SIGNAGE TAG
REFERENCE GUIDE
AND GENERAL NOTES**

scale

As noted

project number.

ONBL17-0127

drawing no.

5

SIGN TAG LEGEND

Signetype colour and facing

Sign type

Sign subtype

Floor

Room number

D1.1-S-100

RS-W-106

Mounting Style:

- P Projecting
- S Suspended
- F Floor-mounted
- W Wall/door-mounted
- WF Wall-mounted film
- G Glass mounted/backplated
- GF Glass mounted film
- WM Workstation mounted

Floor

- B Basement
- 100 1 floor
- 200 2 floor
- 300 3 floor
- 400 4 floor
- 500 5 floor

INTERIOR SIGNTYPES PLAN CODING

- EX Exterior
- D Directional
- AS Amenity
- AS Amenity-Stairwell
- ID Destination ID

- RS1 Room ID
- RS2 Rowmark Room No.
- WS Workstation ID
- LS Locker ID
- M Warning and Safety
- M Emergency and Notification

General Notes:

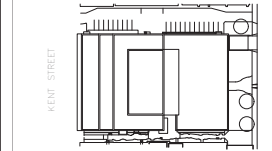
The signage scope of work to be carried by the vendor under the Contract, except as otherwise noted, shall include:

1. Based on the tender package, the vendor will submit a detail Room Sign Schedule showing the descriptions and listing of all rooms/areas by room numbers, sign type and colour. Along with all applicable shop drawings of the signage. This package will be submitted to Designer for review and approval prior to production of signs.
2. All labour, materials, tools, equipment, transport, fitting and fixing in final position and all other labour necessary to complete the full entire execution and installation of all signage.
3. All signage fabrication to include CNIB as third-party reviewer for all braille translation to be submitted for approval.
4. Final sign types will be fabricated in an increment of 25mm.
5. Inspection of Site: It will be the vendor's responsibility to inspect and examine the site and it's surrounding to ensure the submission of the tender complies with the signage tender package. Any discrepancies found on site shall be brought to the designer's attention for solutions.
6. Signage Tactile:
 - Height on signage shall be between .8 and 1.5 mm above the surface.
 - Sans Serif
 - 16-50 mm in height and braille near the bottom edge
7. Signage Pictogram Symbols:
 - Shall be raised between .8-1.5 mm above the surface
 - At least 150 mm in height
 - Accompanied by braille, positioned directly below the pictogram and symbol
 - Colour contrasted with background by 70%

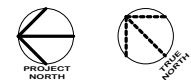
■ SIGNS SCHEDULE

SIGNS SCHEDULE										
Sign code	Colour on Plan	floor	Sign Preview	Description	Tactile & Braille	French	Installation	Dimensions WxHxD(mm)	Signface	Quantity
EX - Exterior Signs										
EX1		1		Address sign - Grafton St	NA	NA	Canopy top-mounted	2800x300x60	Stainless steel letters	1
EX4		1		Building ID - Kent St.	NA	Y	Wall-mounted		Single-sided	1(reused)
D - Directional signs										
D1.1a-S-B		B		Building Directional sign - to Elevator lobby and stair -Parking Level	N	Y	Suspended	2200x200x25	Double-sided	2
D1.1b-S-B		B		Building Directional sign - to Elevator lobby-Parking Level	N	Y	Suspended	2200x200x25	Double-sided	1
D1.2-S-181		1		Building Directional sign - 1 floor	N	Y	Suspended	2200x506x25	Double-sided	1
D1.2-S-126		1		Building Directional sign - 1 floor	N	Y	Suspended	2200x506x25	Double-sided	1
D2.1-W-Room #		B-to5		Elevator Lobby Directional sign - North Lobby	N	Y	Wall-mounted	850x80x3 / 1 plate	Single-sided	6 (39 individual plates)
D2.1a-W-Room #		B-to5		Braille Elevator Lobby Directional sign - North Lobby	Y	Y	Wall-mounted	400x200x3	Single-sided	6
D2.2-W-Room #		B-to3		Elevator Lobby Directional sign - South Lobby	N	Y	Wall-mounted	850x80x3 / 1 plate	Single-sided	4 (16 individual plates)
D2.2a-W-Room #		B-to5		Braille Elevator Lobby Directional sign - South Lobby	Y	Y	Wall-mounted	400x200x3	Single-sided	4
AS - Amenity signs										
AS1.1-W-Room #		1to5		Amenity Sign - Washroom - Men	Y	Y	Wall-mounted	228x228x3	Single-sided	7
AS1.1a-W-184		1		Amenity Sign - Washroom - Men - with baby change table	Y	Y	Wall-mounted	228x228x3	Single-sided	1
AS1.2-W-Room #		1to5		Amenity Sign - Washroom - Women	Y	Y	Wall-mounted	228x228x3	Single-sided	7
AS1.2a-W-185		1		Amenity Sign - Washroom - Women - with baby change table	Y	Y	Wall-mounted	228x228x3	Single-sided	1
AS1.3-W-Room #		2to5		Amenity Sign - Washroom - All Access	Y	Y	Wall-mounted	228x228x3	Single-sided	4
AS1.3a-W-183		1		Amenity Sign - Washroom - All Access - with baby change table	Y	Y	Wall-mounted	228x228x3	Single-sided	1
AS1.3b-W-112		1		Amenity Sign - Washroom - All Access - with adult change table	Y	Y	Wall-mounted	228x228x3	Single-sided	1
AS1.7-W-Room #		B		Amenity Sign - All Access Shower	Y	Y	Wall-mounted	228x228x3	Single-sided	5
AS1.8-W-104a		1		Amenity Sign - First Aid	Y	Y	Wall-mounted	228x228x3	Single-sided	1
AS1.11-W-Room #		2to5		Amenity Sign - Water Bottle Refill	Y	Y	Wall-mounted	228x228x3	Single-sided	9
AS2.3-P-Room #		2 to 5		Amenity Sign - Washroom - Flag Sign	N	N	Projected	300x300x3	Double-sided	8
AS2.3a-P-183		1		Amenity Sign - Washroom - Flag Sign - with baby change table	N	N	Projected	300x300x3	Double-sided	1
AS2.3b-P-112		1		Amenity Sign - Washroom - Flag Sign - with adult change table	N	N	Projected	300x300x3	Double-sided	2
AS2.4-P-Room #		1 to 5		Amenity Sign - Elevator - Flag Sign	N	N	Projected	300x300x3	Double-sided	10
AS2.5-P-Room #		1 to 5		Amenity Sign - Freight levator - Flag Sign	N	N	Projected	300x300x3	Double-sided	6
AS2.6-P-Room #		1 to 5		Amenity Sign - Stair - Flag Sign	N	N	Projected	300x300x3	Double-sided	22
AS2.7-P-08a		1		Amenity Sign - All Access Shower - Flag Sign	N	N	Projected	300x300x3	Double-sided	1
AS2.8-P-104a		1		Amenity Sign - First Aid - Flag Sign	N	N	Projected	300x300x3	Double-sided	1
AS2.9-P		1 to 5		Amenity Sign - Fire extinguisher - Flag Sign	N	N	Projected	300x300x3	Double-sided	84
AS2.10-P		1 to 5		Amenity Sign - Fire Hose Valve - Flag Sign	N	N	Projected	300x300x3	Double-sided	15
AS3-W-Stair ID		B to PH		Amenity Sign - Stairwell floor Level ID	Y	Y	Wall-mounted(stair side)	228x228x3	Single-sided	23(individual)
AS4-W-Stair ID		B to PH		Amenity Sign - Stairwell Level ID	Y	Y	Wall/door-mounted(corridor side)	220x318x3	Single-sided	23(individual)
ID - Destination ID signs										
ID2.1-S-Room #		B to 5		Destination ID - Zones - Interactive	N	Y	Suspended	800x200x25	Single-sided	12
ID2.2-S-Room #		B to 5		Destination ID - Zones - Quiet	N	Y	Suspended	800x200x25	Single-sided	15
ID3-Parking #		B		Destination ID - Parking spot numbers	N	NA	Suspended	300x200x10	Single-sided	66 (individual)
ID4.1-P-Room #		1to5		Destination ID - Area Destination - Lockers	N	Y	Projected	300x300x3	Double-sided	15
ID4.2-P-Room #		1to5		Destination ID - Area Destination - Business Centre	N	Y	Projected	300x300x3	Double-sided	14
ID4.4-P-Room #		1to5		Destination ID - Area Destination - Kitchenette/Lounge	N	Y	Projected	300x300x3	Double-sided	9
ID4.5-P-Room #		1		Destination ID - Area Destination - Training room	N	Y	Projected	300x300x3	Double-sided	2
ID4.7-P-290				Destination ID - Area Destination - Huddle	N	Y	Projected	300x300x3	Double-sided	1
ID4.8-P-287c				Destination ID - Area Destination - Touchdown	N	Y	Projected	300x300x3	Double-sided	1
ID4.9-P-180				Destination ID - Area Destination - Reception	N	Y	Projected	300x300x3	Double-sided	1
ID4.9-P - Room #				Destination ID - Area Destination - Teaming Area	N	Y	Projected	300x300x3	Double-sided	6
ID5.1-W-B		B		Destination ID - Area Destination - Parking row coding - Row A	N	Y	Wall-mounted Film	700x350	Single-sided	37
ID5.2-W-B		B		Destination ID - Area Destination - Parking row coding - Row B	N	Y	Wall-mounted Film	700x350	Single-sided	66
ID5.3-W-B		B		Destination ID - Area Destination - Parking row coding - Row C	N	Y	Wall-mounted Film	700x350	Single-sided	34
ID5.4-WB		B		Destination ID - Area Destination - Parking row coding - Row D	N	Y	Wall-mounted Film	700x350	Single-sided	15

key plan



project and true North



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0	NORR ADDENDUM #1	2022-06-23
revisions.	description	date

project

DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing

SIGN SCHEDULE

scale
As noted

project number.
ONBL17-0127

drawing no.
6

SIGNS SCHEDULE

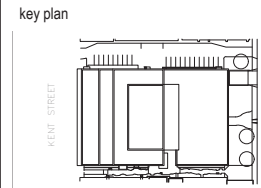
Sign code	floor	Description	Tactile & Braille	French	Installation	Dimensions WxHxD(mm)	Signface	Quantity
RS - Room ID signs								
RS1.1-W-Room #	1to5	Room ID and No.	Y	Y	Wall-mounted	324x228x3	Single sided	19 (individual)
RS1.2.1-G-Room #	1to5	Room ID and No. with pictogram - Meeting Room - Medium	Y	Y	Glass-mounted	324x228x3	Single sided	15 (individual)
RS1.2.2-G-Room #	1to5	Room ID and No. with pictogram - Meeting Room - Large	Y	Y	Glass-mounted	324x228x3	Single sided	10 (individual)
RS1.2.3-G-Room #	1to5	Room ID and No. with pictogram - Focus Room	Y	Y	Glass-mounted	324x228x3	Single sided	69 (individual)
RS1.2.4-G-Room #	1to5	Room ID and No. with pictogram - Work Room	Y	Y	Glass-mounted	324x228x3	Single sided	17 (individual)
RS1.2.5-G-Room #	1to5	Room ID and No. with pictogram - Phone Booth	Y	Y	Glass-mounted	324x228x3	Single sided	6 (individual)
RS1.2.5a-G-Room #	1to5	Room ID and No. with pictogram - Phone Booth Barrier Free	Y	Y	Glass-mounted	324x228x3	Single sided	20 (individual)
RS1.2.6-G-Room #	1to5	Room ID and No. with pictogram - Reflection Room	Y	Y	Glass-mounted	324x228x3	Single sided	13 (individual)
RS1.2.7-G-Room #	1to5	Room ID and No. with pictogram - Project Room	Y	Y	Glass-mounted	324x228x3	Single sided	7 (individual)
RS1.2.8-W-B02	B	Room ID and No. with pictogram - Wellness Centre	Y	Y	Wall-mounted	324x228x3	Single sided	1
RS1.2.9-W-355	3	Room ID and No. with pictogram - Lactation Room	Y	Y	Wall-mounted	324x228x3	Single sided	1
RS1.3-W-Room #	1,2,5	Suite ID and No.	Y	Y	Wall-mounted	324x180x3	Single sided	5 (individual)
RS1.4-W-Room #	B	Room No. only	Tactile only	NA	Wall-mounted	324x43	Single sided	3 (individual)
RS2-W-Room #	Bto5	Rowmark Room Number	Y	NA	Door Trim-mounted	75x380x3	Single sided	332 (individual)

Sign code	floor	Description	Tactile & Braille	French	Installation	Dimensions WxHxD(mm)	Signface	Quantity	
WS - Workstation ID Signs									
WS1-WM-Workstation #	1to5	2-01	Workstation Numbering Signs - desk mounted	N	NA	Workstation mounted	80x100x1	Double-sided	0 (individual)
WS2-WM-Workstation #	1to5	2-01	Workstation Numbering Signs - partition mounted	N	NA	Workstation mounted	80x80+30x1	Single sided	246 (individual)
WS3-WM-Workstation #	1to5	2-01	Workstation Numbering Signs - glass mounted	N	NA	Workstation mounted	80x80x1	Single sided	121 (individual)

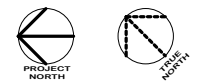
Sign code	floor	Description	Tactile & Braille	French	Installation	Dimensions WxHxD(mm)	Signface	Quantity	
LS - Locker ID Signs									
LS- Locker#	1to5	1-01	Locker Identification Signs	N	NA	Locker mounted	75x50	Single sided	615 (individual)
LS- Locker#	1to5	1-01	Locker Identification Signs with Braille	Y	NA	Locker mounted	75x50	Single sided	301 (individual)

Sign code	floor	Description	Tactile & Braille	French	Installation	Dimensions WxHxD(mm)	Signface	Quantity
W - Warning and Safety Signs								
W1-W-162	1	Warning Sign - Do not block.	N	Y	Wall-mounted	380x110x3	Single sided	1
W2-W-StairC	1	Warning Sign - No storage of items within 3m of this corner	N	Y	Wall-mounted	400x125x3	Single sided	1
W3-W-Room #	1to5	Warning Sign - Authorized Persons Only	N	Y	Door-mounted	320x100x3	Single sided	44
W4.1-W-B	B	Warning Sign - Pedestrian Crossing Ahead - at Grafton Street Garage Door	N	Y	Door-mounted	1500x450x3	Single sided	1
W4.2-W-B	B	Warning Sign - Pedestrian Crossing Ahead - at Grafton Street Garage Door	N	Y	Door-mounted	1500x450x3	Single sided	1
W5-W-162	1	Warning Sign - Restricted Access Area	N	Y	Door-mounted	300x300x3	Single sided	3
W6-W-Room #	1to5	Safety Sign - Please Wash Your Hands	N	Y	Door-mounted	300x300x3	Single sided	22
W7a-W-Room #	1to5	Safety Sign - Recycling station bin sign - Recycling	N	Y	Door-mounted	300x300x1	Single sided	16
W7b-W-Room #	1to5	Safety Sign - Recycling station bin sign - Compost	N	Y	Door-mounted	300x300x1	Single sided	16
W7c-W-Room #	1to5	Safety Sign - Recycling station bin sign - Trash	N	Y	Door-mounted	300x300x1	Single sided	16

Sign code	floor	Description	Tactile & Braille	French	Installation	Dimensions WxHxD(mm)	Signface	Quantity
M - Emergency and Notification Signs								
M1.1-W-Floor#	1to5	Emergency Sign - Fire Procedure Plan Insert Holder(north and south elevator Lobby)	NA	NA	Wall-mounted	400x300x10	Single sided	10
M1.2-W-Floor#StairE	1to5	Notification Sign - Insert Holder for Health Benefits of Active Lifestyle	NA	NA	Wall-mounted	400x300x10	Single sided	6
M2.1-W-Room #	B	Notification Sign - No smoking (for Basement)	N	Y	Wall-mounted	210x350x3	Single sided	5
M2.2-W-Room #	1	Notification Sign - No smoking within 4.5 metre	N	Y	Wall-mounted	210x350x3	Single sided	5
M3-W-Room #	1	Notification Sign - CCTV	N	Y	Wall-mounted	210x350x3	Single sided	4
M4-W-162	B	Notification Sign - Display Identification while in Operation Zone.	N	Y	Wall-mounted	230x300x3	Single sided	1
M4-G-Room #	1	Notification Sign - Display Identification while in Operation Zone.	N	Y	Glass-mounted	230x300x3	Single sided	5
M5-W-Room #	1	Notification Sign - All Visitors Must Report	N	Y	Door-mounted	230x300x3	Single sided	2
M5-G-Room #	1	Notification Sign - All Visitors Must Report	N	Y	Glass-mounted	230x300x3	Single sided	3
M6-W-162	1	Notification Sign - Notice, Deliveries, Closed	N	Y	Door-mounted	400x320x3	Single sided	1
M7-W-162	1	Notification Sign - Do Not Leave Motor Running	N	Y	Door-mounted	400x280x3	Single sided	1
M8.1-W-Room #	1	Notification Sign - Building Maximum Occupancy	N	Y	Wall-mounted	400 x100x3	Single sided	3
M8.2-W-Floor#	B to PH	Notification Sign - Floor Maximum Occupancy	N	Y	Wall-mounted	400 x100x3	Single sided	7 (individual)
M9-W-TRD	1	Notification Sign - Building has been designed in accordance	N	Y	Wall-mounted	400 x1200x3	Single sided	1
M10-W-100	1	Emergency Sign - Emergency Exit, Stair A, B and C	Y	Y	Door-mounted	400x170x3	Single sided	3
M11.1-W-B	B	Notification Sign - Parking and Traffic - Speed Limit	N	Y	Wall-mounted	305x457x3	Single sided	5
M11.2-W-B	B	Notification Sign - Parking and Traffic - By Permit Only	N	Y	Wall-mounted	305x457x3	Single sided	4
M11.3-W-1	1	Notification Sign - Parking and Traffic - Electric Vehicle Charging Only	N	Y	Wall-mounted	305x457x3	Single sided	2
M11.4a-W-B	B	Notification Sign - Parking and Traffic - Handicapped Parking Direction	N	Y	Wall-mounted	305x457x3	Single sided	3
M11.4b-W-B	B	Notification Sign - Parking and Traffic - Handicapped Parking Direction	N	Y	Wall-mounted	305x457x3	Single sided	1
M11.5a-W-Floor#	B and 1	Notification Sign - Parking and Traffic - Bike Parking Direction	N	Y	Wall-mounted	305x457x3	Single sided	3
M11.5b-W-B	B	Notification Sign - Parking and Traffic - Bike Parking Direction	N	Y	Wall-mounted	305x457x3	Single sided	2



project and true North



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revisions.	description	date

project
DANIEL J MACDONALD
MODERNIZATION
Charlottetown, P.E.I.

drawing
SIGN SCHEDULE

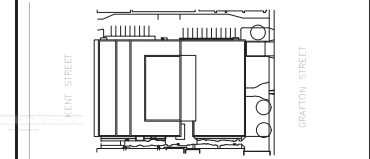
scale
As noted

project number.
ONBL17-0127

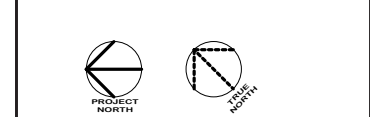
drawing no.
7

Sign Location Plans

key plan



project and true North



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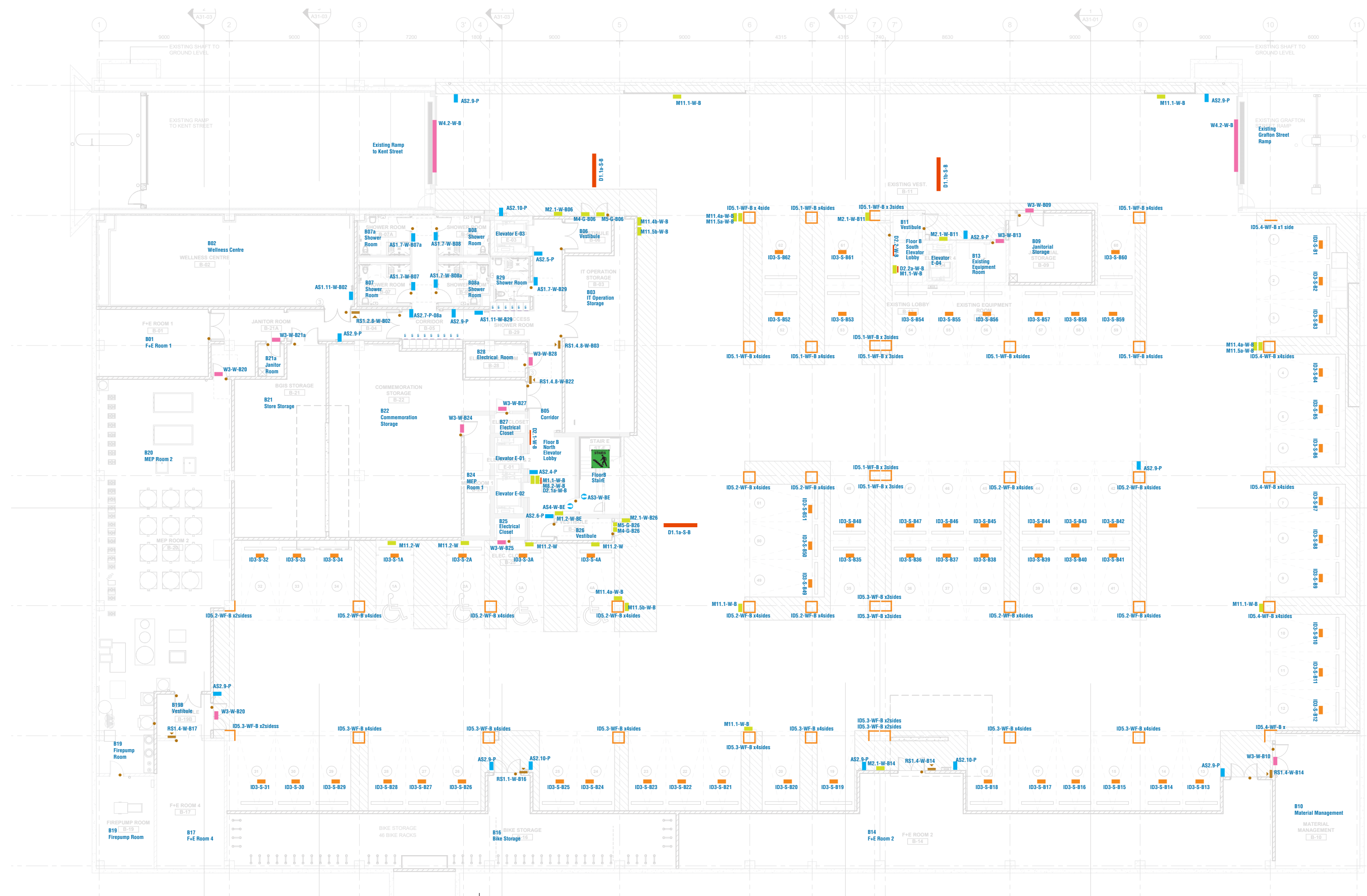
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
BASEMENT LEVEL SIGN LOCATION PLAN

scale
As noted

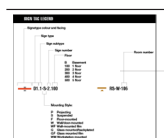
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ONBL17-0127

drawing no.
9



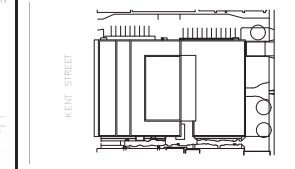
LEGEND

(EX) Exterior Signs	(ID) Destination ID Signs	(LS) Locker ID Sign
(D) Directional Signs	(RS) - Room ID Signs	(W) Warning and Safety Signs
(AS) Amenity Signs	(RS)- Rowmark Room Number	(M) Emergency and Notification Signs
(AS) Stairwell Sign	(WS) Workstation ID Signs	

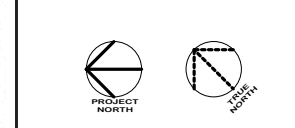


For Sign Tag Legend refer to page 5

key plan



project and true North



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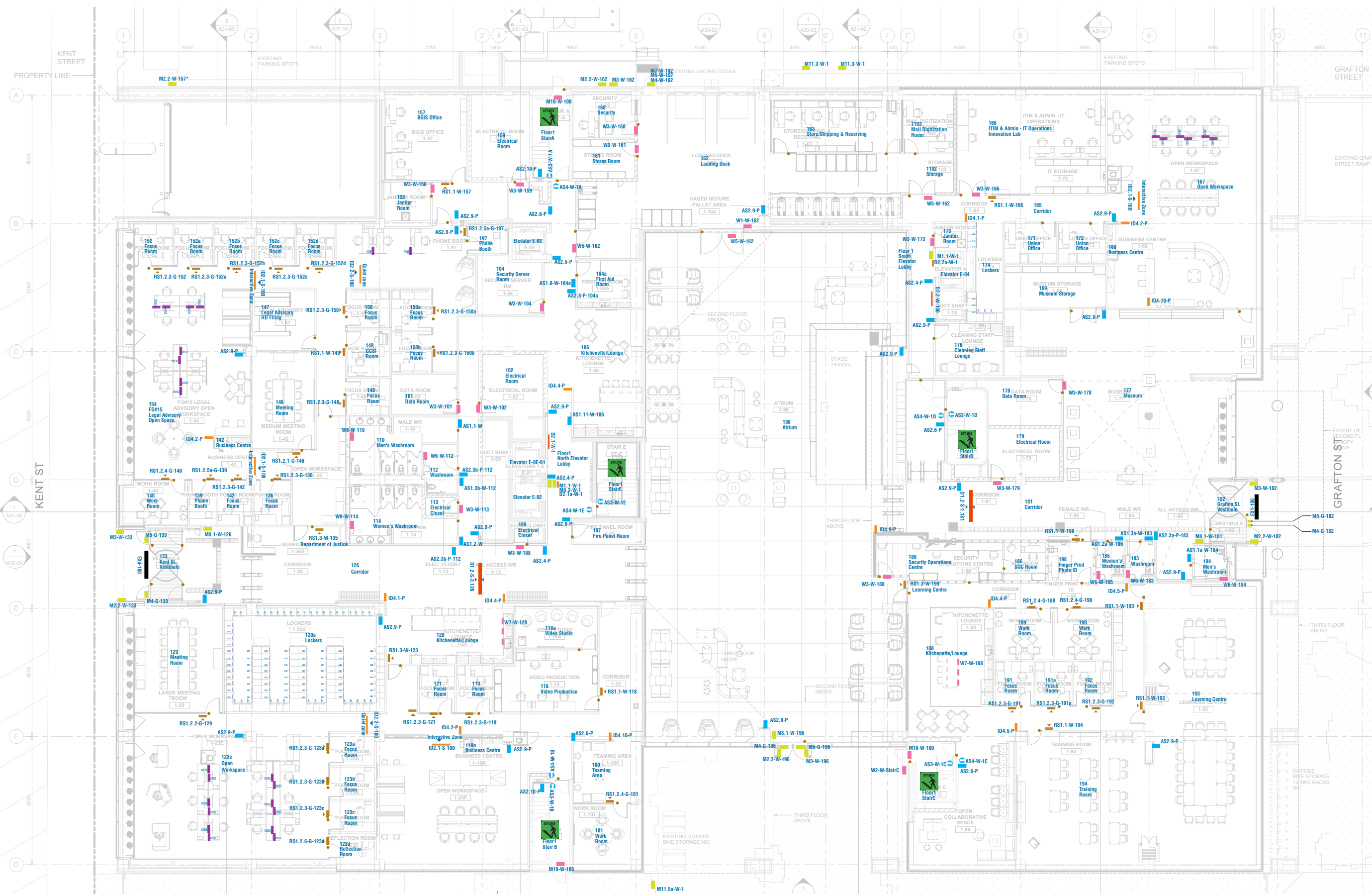
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
1ST FLOOR SIGN LOCATION PLAN

scale
As noted

project number.
ONBL17-0127

drawing no.
10



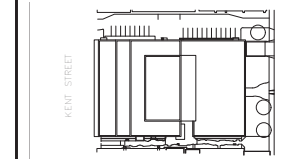
LEGEND

(EX) Exterior Signs	(ID) Destination ID Signs	(LS) Locker ID Sign
(D) Directional Signs	(RS) - Room ID Signs	(W) Warning and Safety Signs
(AS) Amenity Signs	(RS)- Rowmark Room Number	(M) Emergency and Notification Signs
(AS) Stairwell Sign	(WS) Workstation ID Signs	

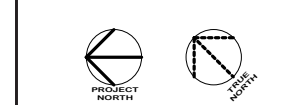
rowmark sign to be on all doors

For Sign Tag Legend refer to page 5

key plan



project and true North



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1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23
revisions.	description	date

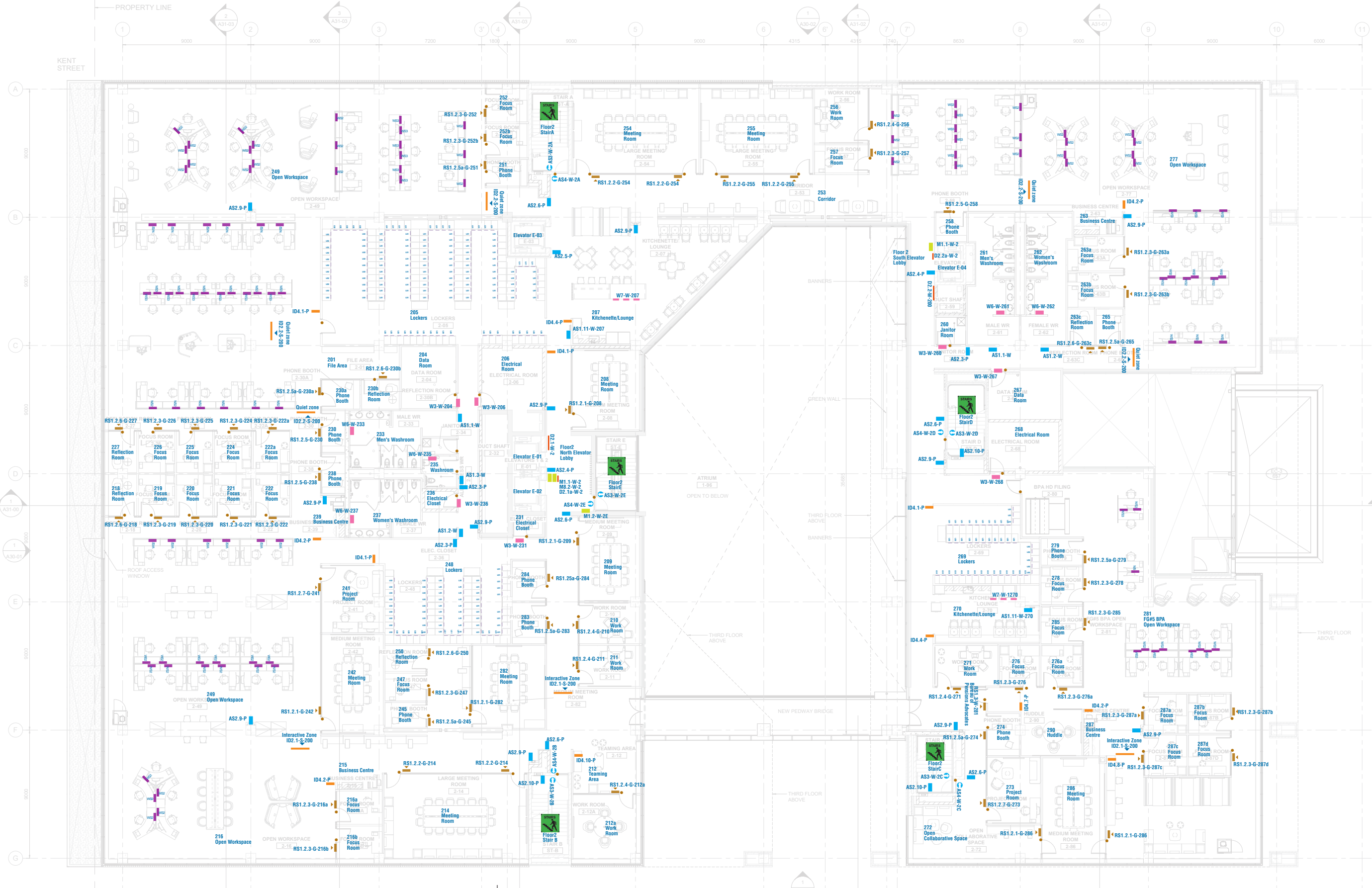
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
2ND FLOOR SIGN LOCATION PLAN

scale
As noted

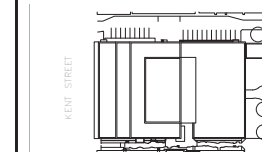
project number.
ONBL17-0127

drawing no.
11

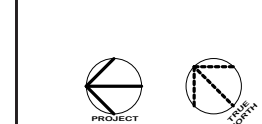


LEGEND	
(EX) Exterior Signs	(ID) Destination ID Signs
(D) Directional Signs	(RS) - Room ID Signs
(AS) Amenity Signs	(RS)- Rowmark Room Number
(AS) Stairwell Sign	(WS) Workstation ID Signs
(LS) Locker ID Sign	(W) Warning and Safety Signs
(M) Emergency and Notification Signs	

key plan



project and true North



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1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23
revisions.	description	date

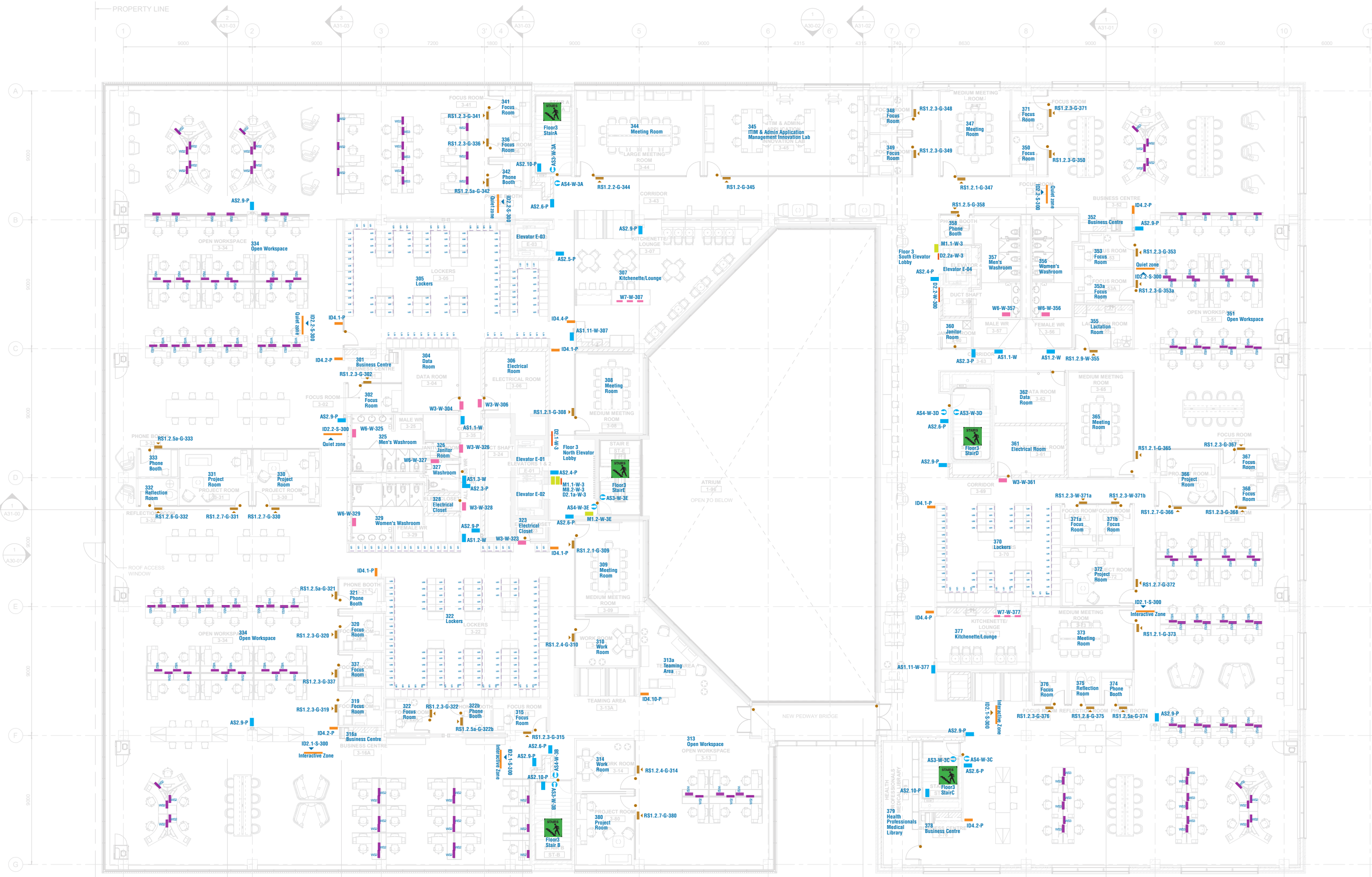
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
3RD FLOOR SIGN LOCATION PLAN

scale
As noted

project number.
ONBL17-0127

drawing no.
12

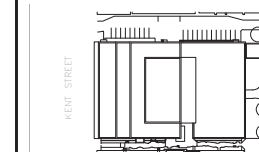


LEGEND

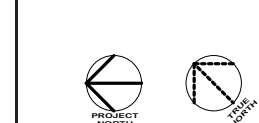
- (EX) Exterior Signs
- (D) Directional Signs
- (AS) Amenity Signs
- (AS) Stairwell Sign
- (ID) Destination ID Signs
- (RS) - Room ID Signs
- (RS)- Rowmark Room Number
- (WS) Workstation ID Signs
- (LS) Locker ID Sign
- (W) Warning and Safety Signs
- (M) Emergency and Notification Signs

For Sign Tag Legend refer to page 5

key plan



project and true North



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revisions	description	date
1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23

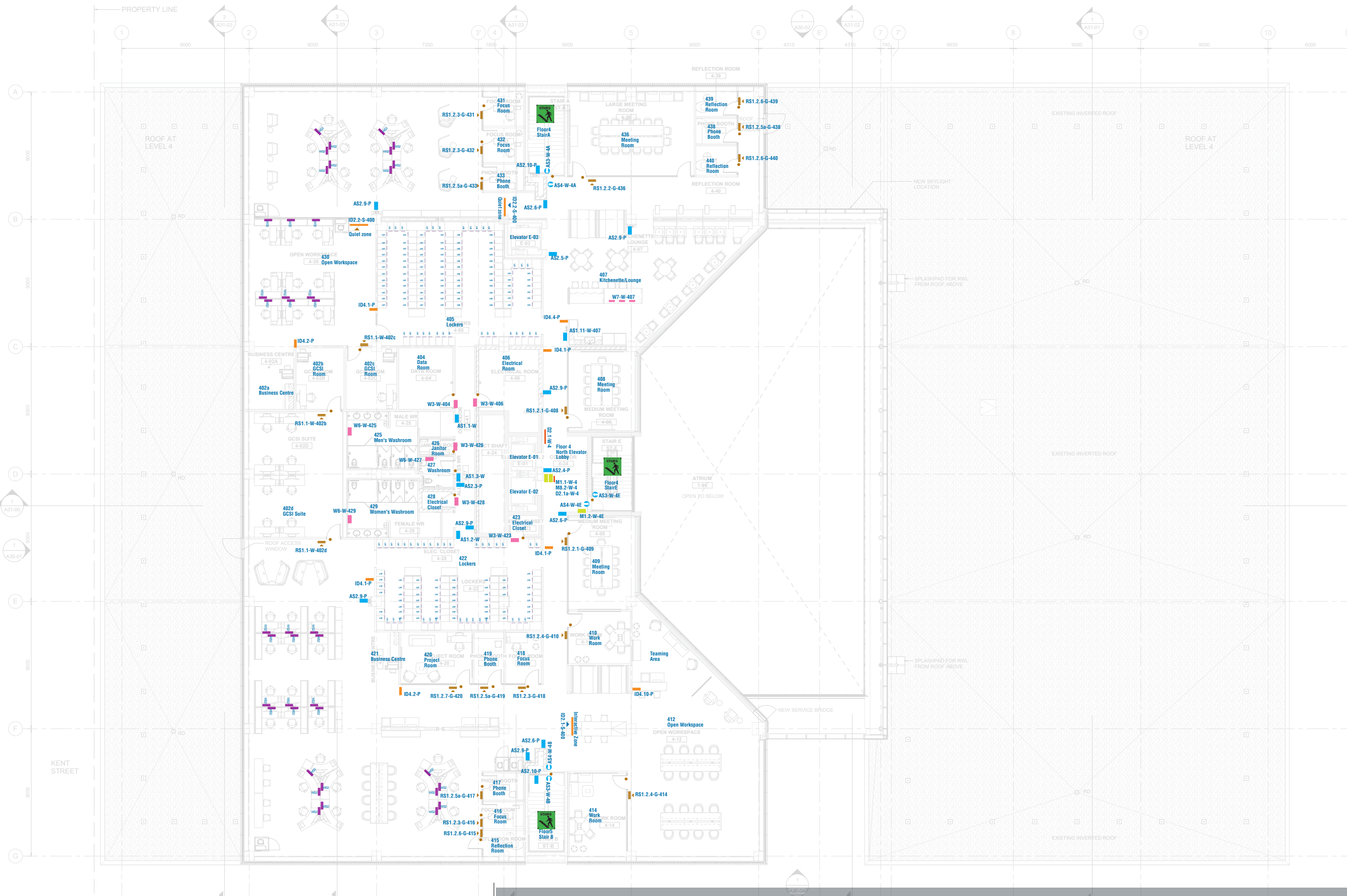
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
4TH FLOOR SIGN LOCATION PLAN

scale
As noted

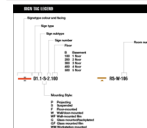
project number.
ONBL17-0127

drawing no.
13

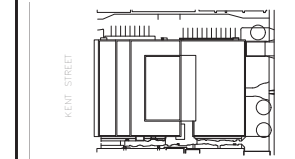


- (EX) Exterior Signs
- (ID) Destination ID Signs
- (LS) Locker ID Sign
- (D) Directional Signs
- (RS) - Room ID Signs
- (W) Warning and Safety Signs
- (AS) Amenity Signs
- (RS)- Rowmark Room Number
- (M) Emergency and Notification Signs
- (AS) Stairwell Sign
- (WS) Workstation ID Signs

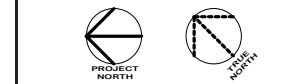
For Sign Tag Legend refer to page 5



key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
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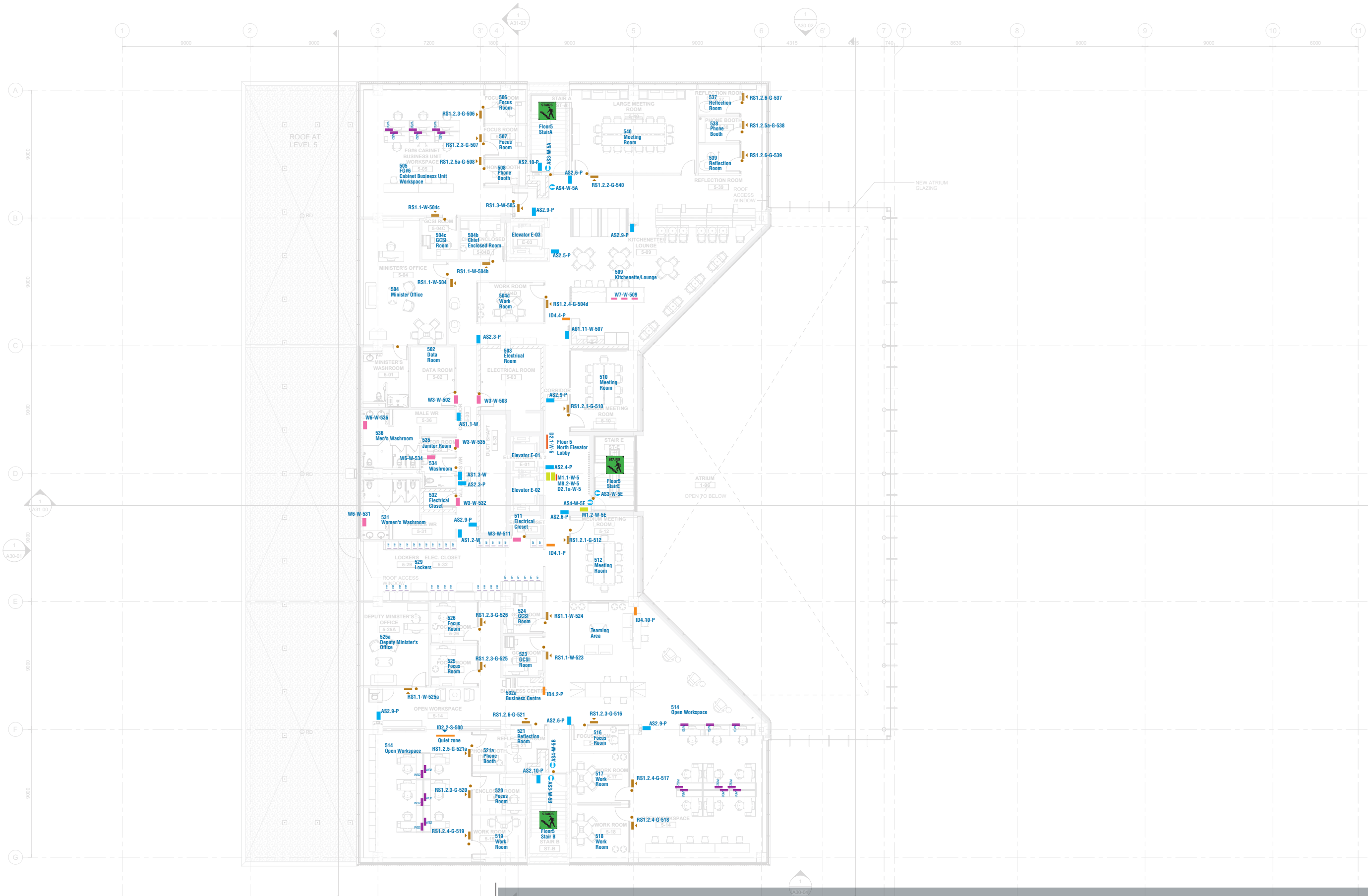
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
5TH FLOOR SIGN LOCATION PLAN

scale
As noted

project number.
ONBL17-0127

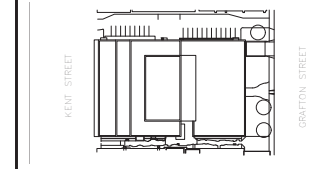
drawing no.
14



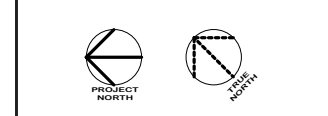
- (EX) Exterior Signs
- (ID) Destination ID Signs
- (LS) Locker ID Sign
- (D) Directional Signs
- (RS) - Room ID Signs
- (W) Warning and Safety Signs
- (AS) Amenity Signs
- (RS)- Rowmark Room Number
- (AS) Stairwell Sign
- (WS) Workstation ID Signs
- (M) Emergency and Notification Signs

For Sign Tag Legend refer to page 5

key plan



project and true North



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0	NORR ADDENDUM #1	2022-06-23
revisions.	description	date

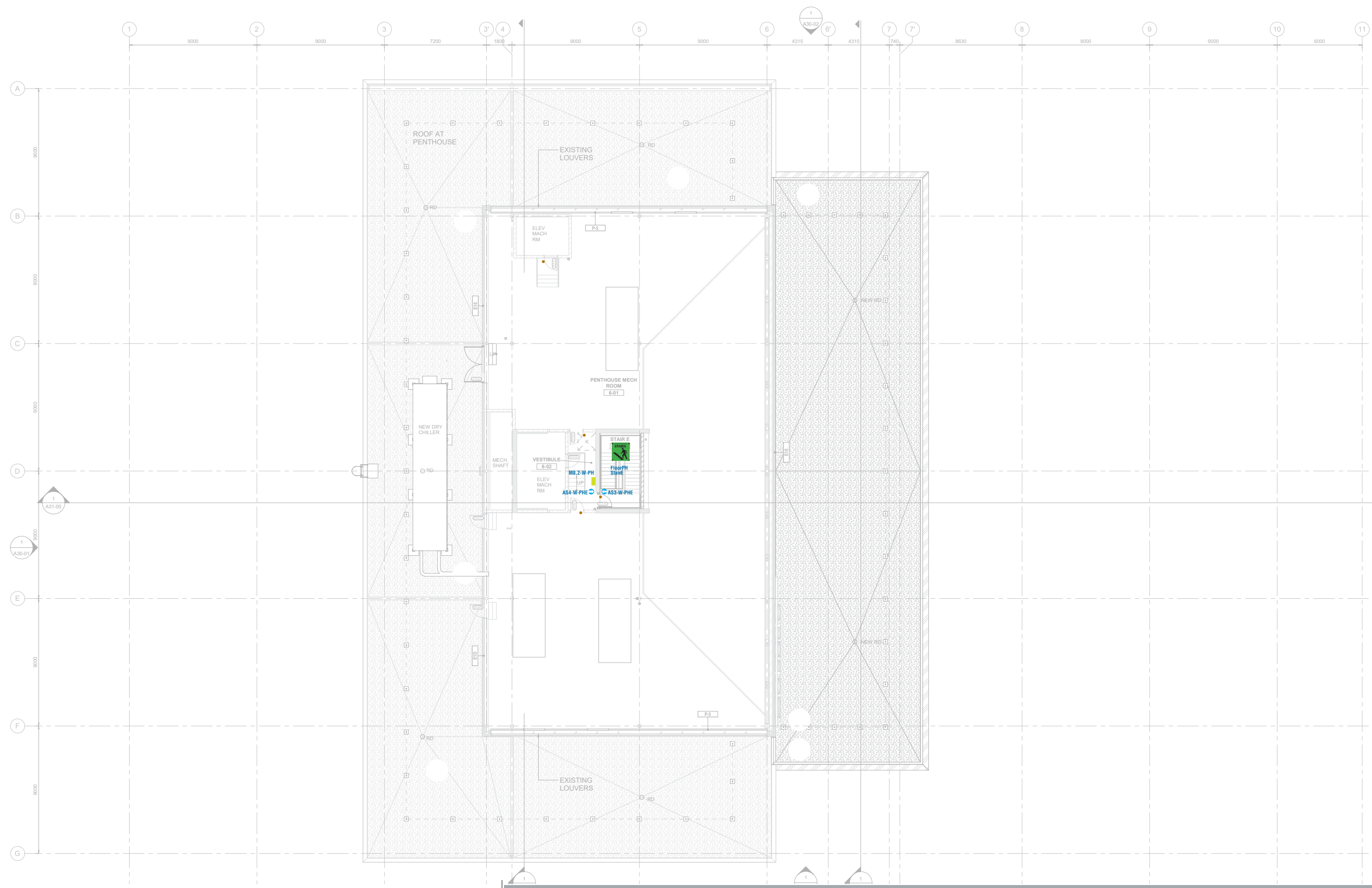
project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**PENTHOUSE FLOOR
SIGN LOCATION PLAN**

scale
As noted

project number.
ONBL17-0127

drawing no.
15



- (EX) Exterior Signs
- (ID) Destination ID Signs
- (LS) Locker ID Sign
- (D) Directional Signs
- (RS) - Room ID Signs
- (W) Warning and Safety Signs
- (AS) Amenity Signs
- (RS)- Rowmark Room Number
- (M) Emergency and Notification Signs
- ↻ (AS) Stairwell Sign
- (WS) Workstation ID Signs

For Sign Tag Legend refer to page 5

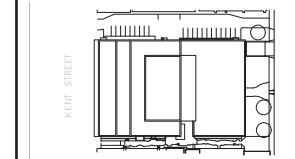


Sign Design



■ INTERIOR SIGNS - HANGING GUIDELINES

key plan



project and true North



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1	NORR ADDENDUM #10	2022-09-01
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revisions.	description	date

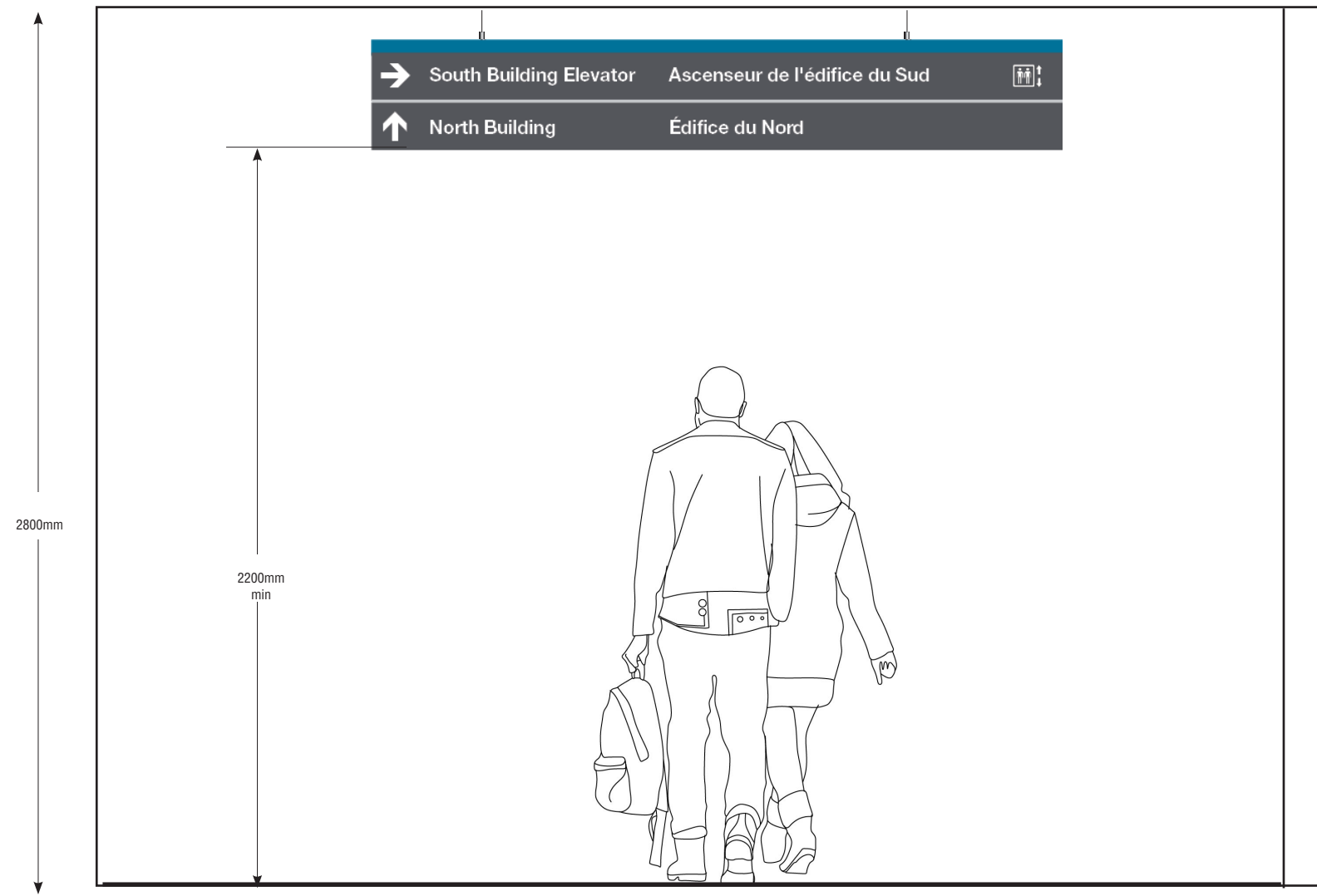
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
INTERIOR SIGNS - HANGING GUIDELINES

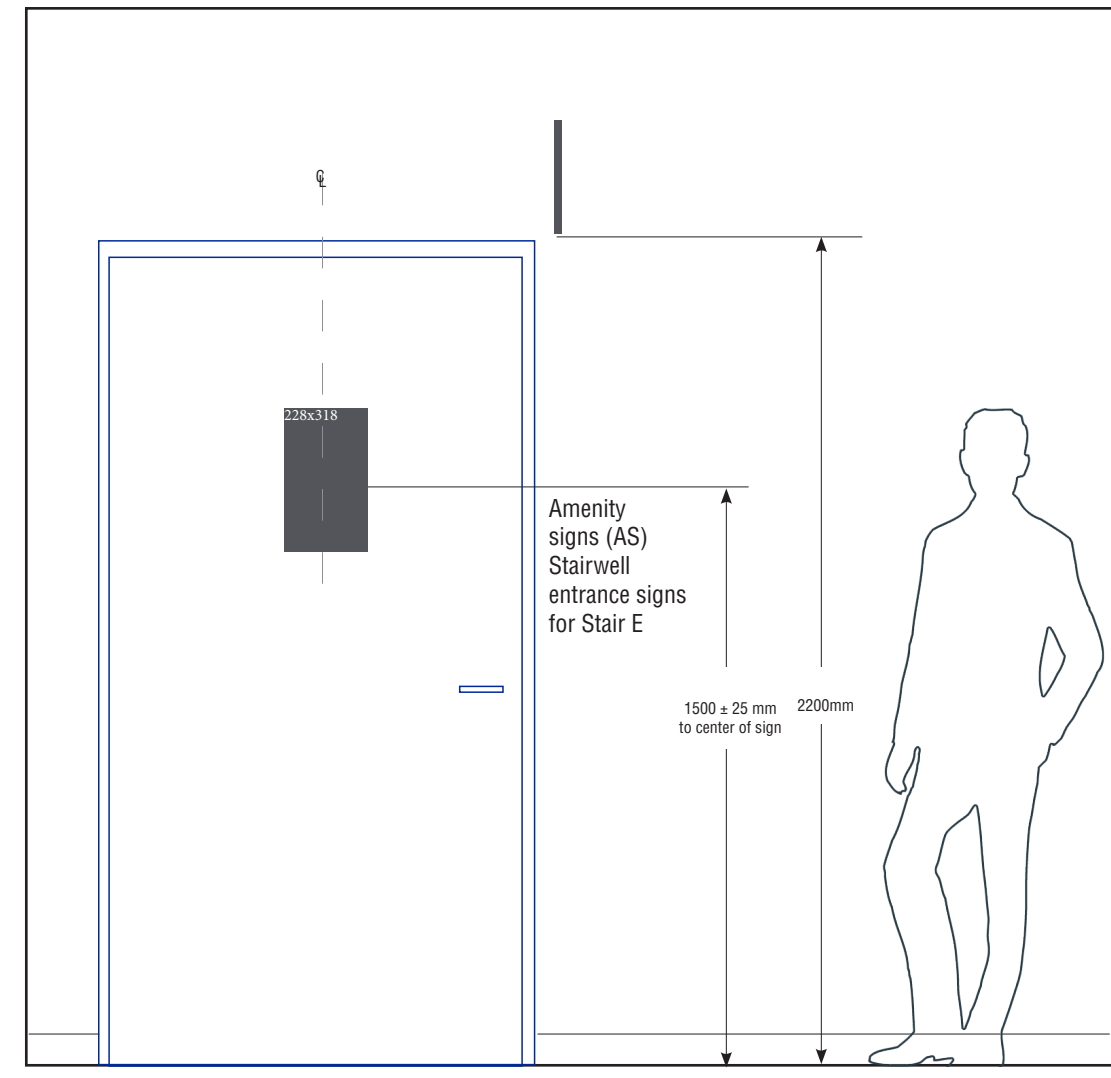
scale
As noted

project number.
ONBL17-0127

drawing no.
17

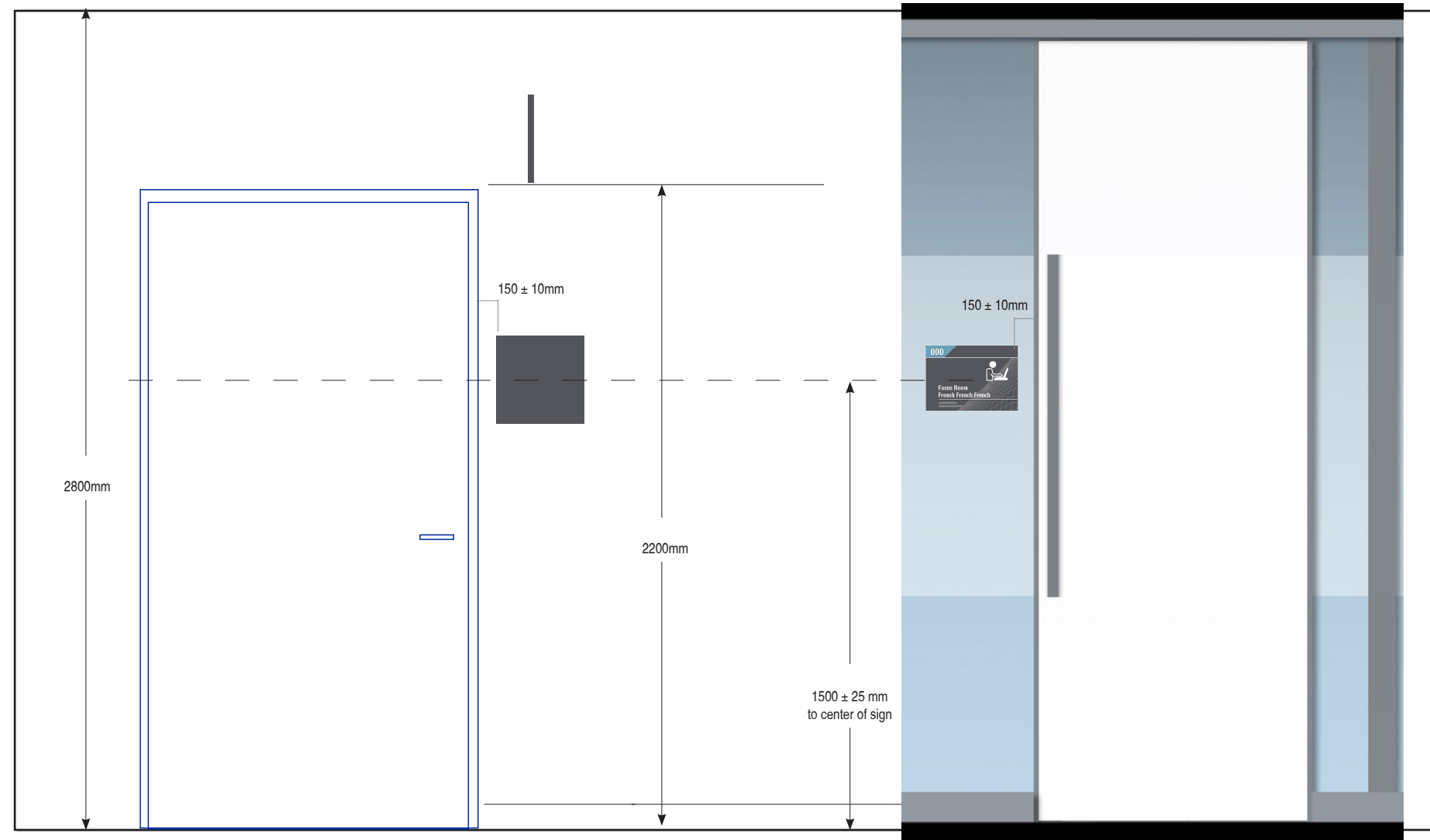


Ceiling mounted signs
Corridor section
Scale 1:20

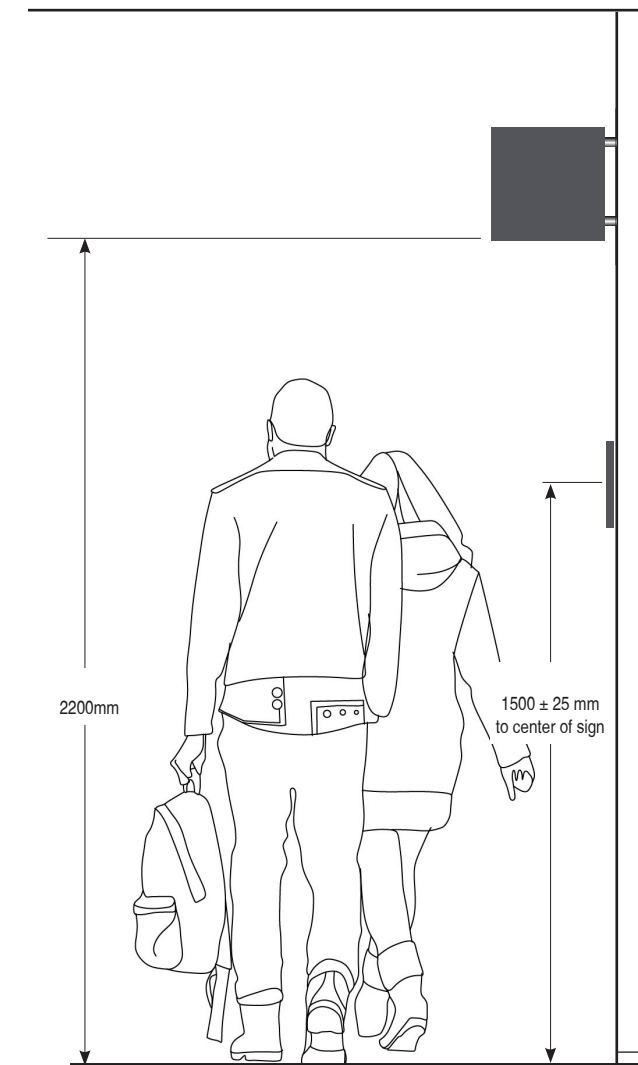


Door mounted and flag signs
Front Elevation
Scale 1:20

■ INTERIOR SIGNS - HANGING GUIDELINES

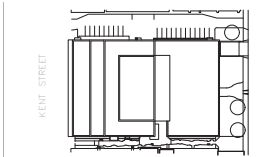


Wall and glass mounted signs
Front Elevation
 Scale 1:20
 All glass mounted signs should be backplated.



Projected-Flag signs
Corridor Section
 Scale 1:20

key plan



project and true North



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1	NORR ADDENDUM #10	2022-09-01
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revisions.	description	date

project
DANIEL J MACDONALD
MODERNIZATION
 Charlottetown, P.E.I.

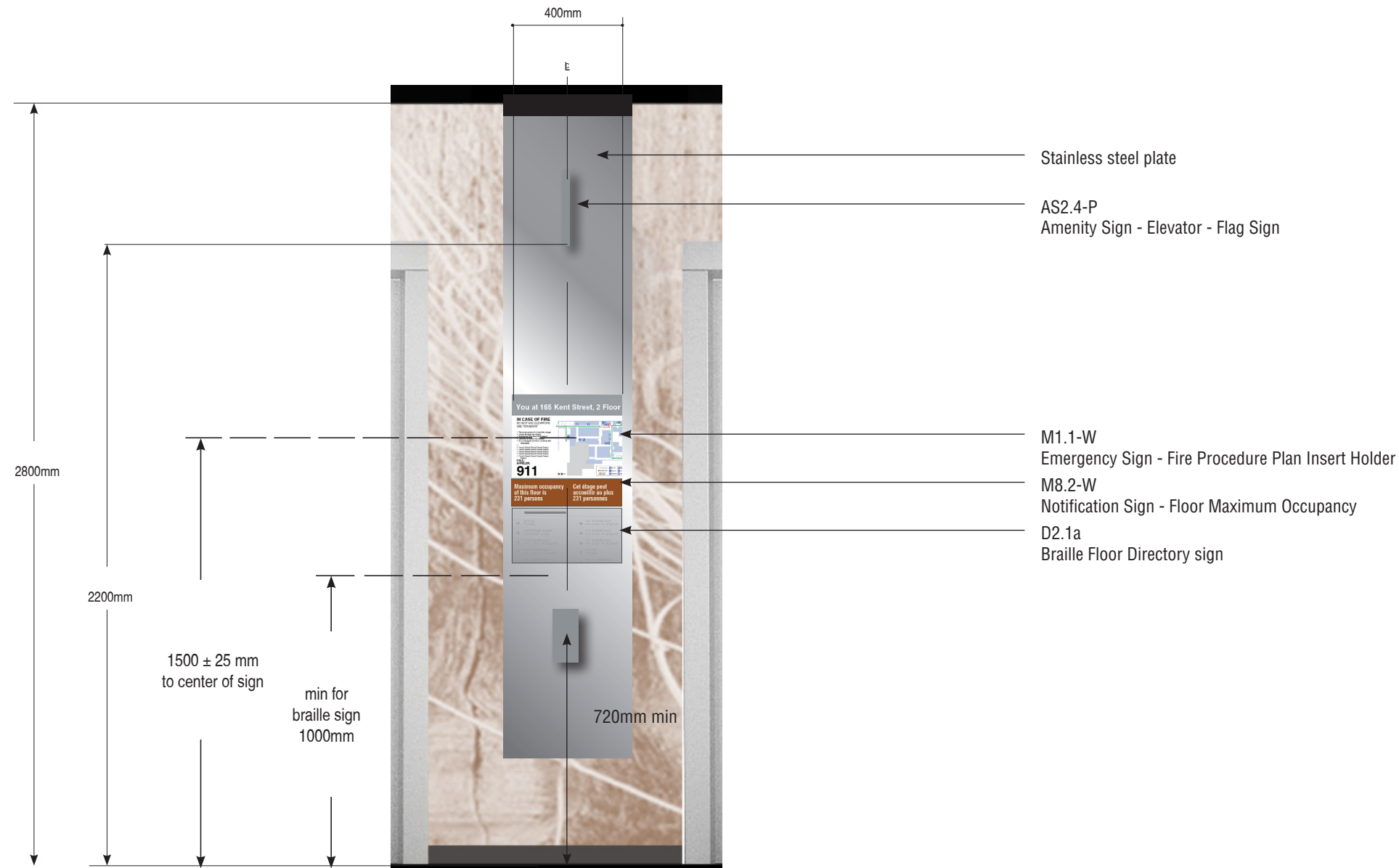
drawing
INTERIOR SIGNS - HANGING GUIDELINES

scale
 As noted

project number.
ONBL17-0127

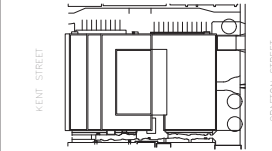
drawing no.
18

■ INTERIOR SIGNS - HANGING GUIDELINES

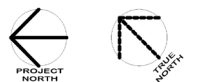


Elevator Lobby Signs wall mounting guidelines
Scale 1:5

key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
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project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
INTERIOR SIGNS - HANGING GUIDELINES

scale
As noted

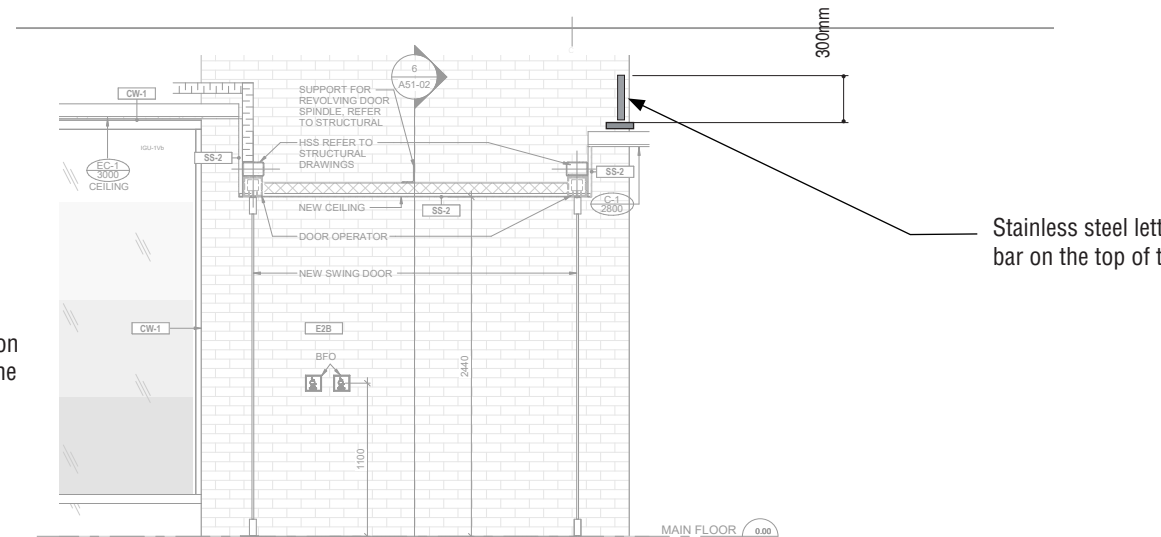
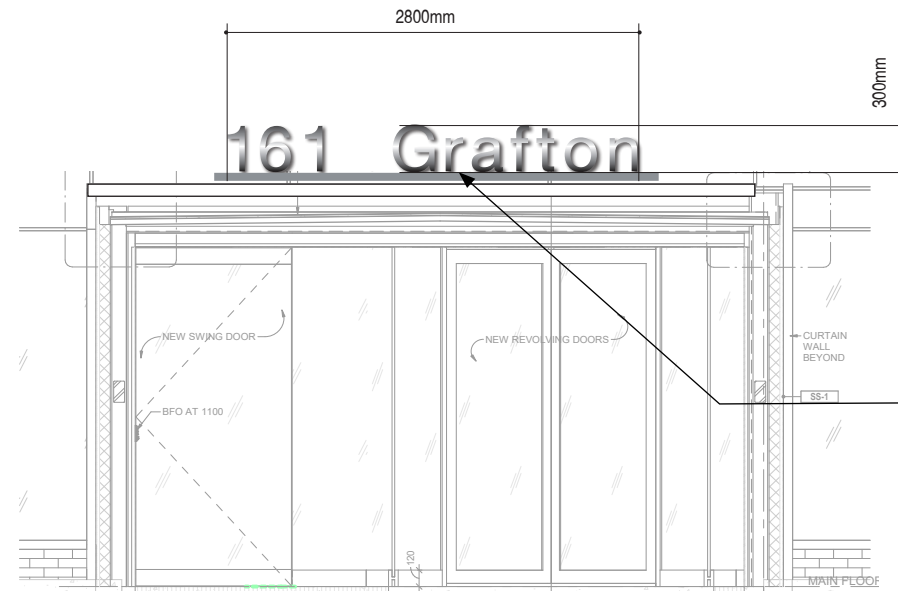
project number.
ONBL17-0127

drawing no.
19

EX SERIES - EXTERIOR SIGNS

Colour coding on floor plan

■ EX SERIES - EXTERIOR SIGNS (EX1)

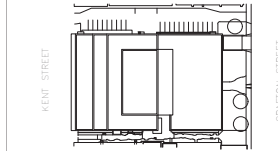


EX1 - Address sign - Grafton St
Canopy mounted Stainless steel Letters, Grafton st. entrance
Scale 1:50

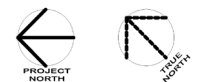


Scale 1:10

key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
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project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**EX SERIES -
EXTERIOR SIGNS**

scale
As noted

project number.
ONBL17-0127

drawing no.
21

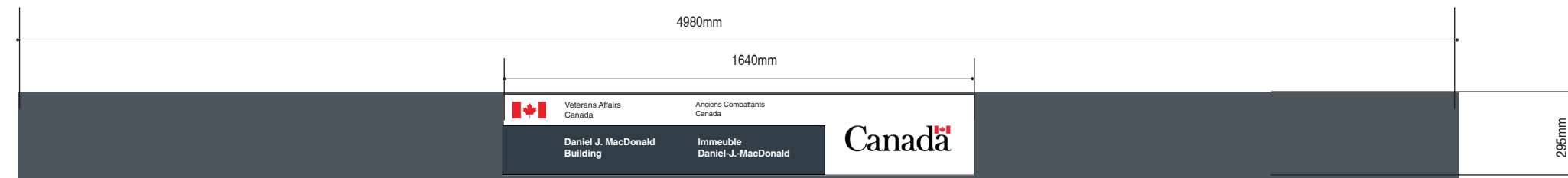
■ EX SERIES - EXTERIOR SIGNS (EX4)



EX4 - Building ID - Kent St.

wall mounted above door, Kent st. entrance

Scale 1:50



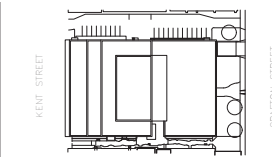
EX4 - Building ID - Kent St.

wall mounted above door, Kent st. entrance

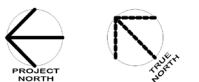
Scale 1:20

This sign is to be reused if possible.

key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23

project
**DANIEL J
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MODERNIZATION**
Charlottetown, P.E.I.

drawing
**EX SERIES -
EXTERIOR SIGNS**

scale
As noted

project number.
ONBL17-0127

drawing no.
22

D SERIES - DIRECTIONAL SIGNS

Colour coding on floor plan

■ D SERIES - DIRECTIONAL SIGNS (D1)

D1 Typical signs, Ceiling mounted



Directional Sign - (D1.1) - one direction

2200mm x 200mm x 25mm

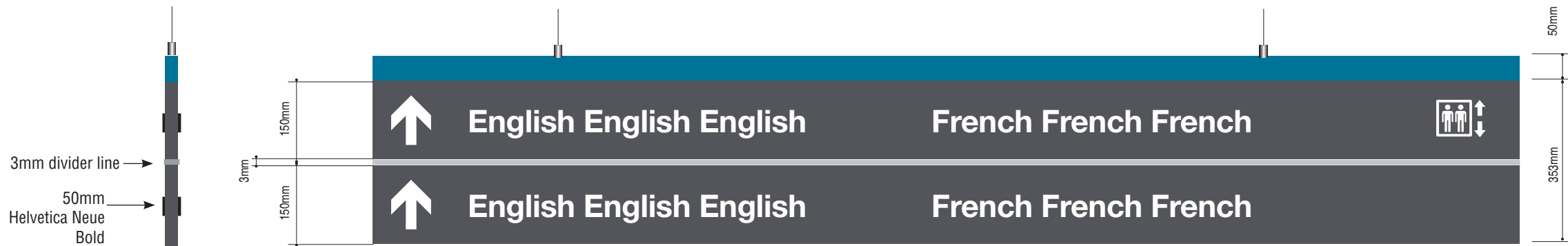
Scale 1:10

(2)-sided Dense Foam Core Board hanging sign w/digital graphics.

Edge painted to match faces.

Hang 2400mm from floor to sign bottom .

50 mm Header band on sign face, returns and exposed second surface areas to be printed, masked, and painted to match FLOOR ACCENT COLOUR (refer to page 3)



Directional Sign - (D1.2) - two direction

2200mm x 353mm x 25mm

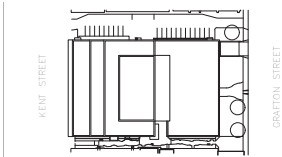
Scale 1:10

(2)-sided Dense Foam Core Board hanging sign w/digital graphics.

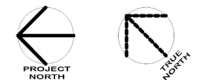
Edge painted to match faces.

Hang 2400mm from floor to sign bottom .

key plan



project and true North



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0	NORR ADDENDUM #1	2022-06-23
revisions.	description	date

project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**D SERIES -
DIRECTIONAL SIGN**

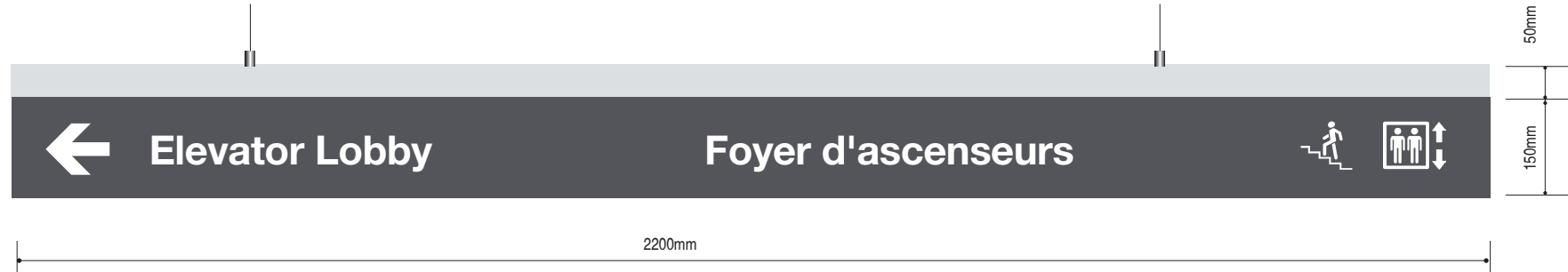
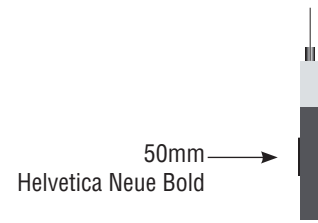
scale
As noted

project number.
ONBL17-0127

drawing no.
24

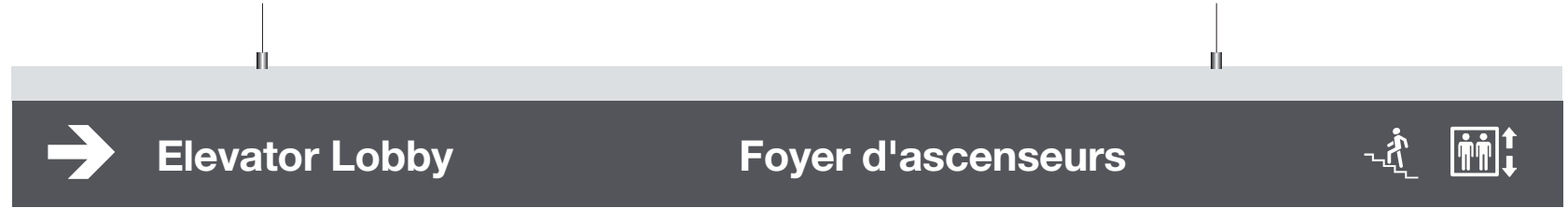
■ D SERIES - DIRECTIONAL SIGNS (D1) - BUILDING DIRECTIONAL SIGN - PARKING LEVEL

Ceiling mounted

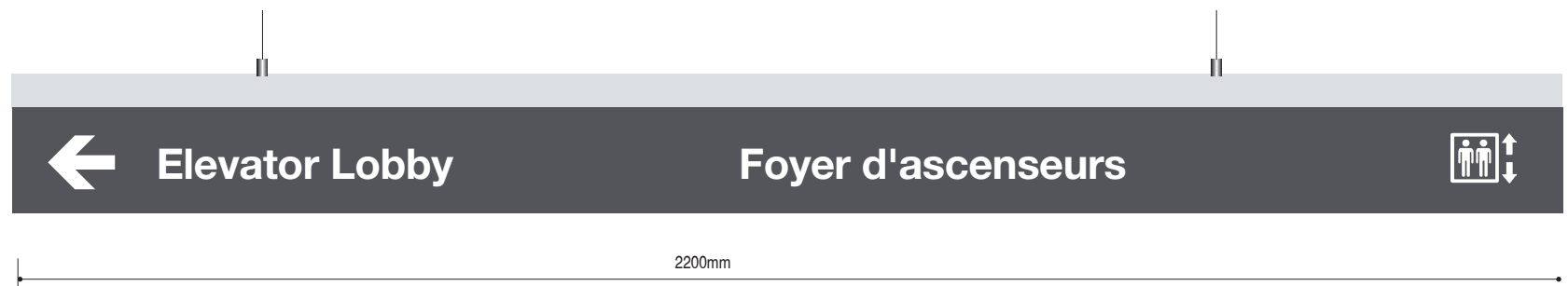


Directional Sign - (D1.1a-S-B)
 2200mm x 200mm x 25mm
 Scale 1:10
 (2)-sided Dense Foam Core Board hanging sign w/digital graphics.
 Edge painted to match faces.
 Hang 2400mm from floor to sign bottom .

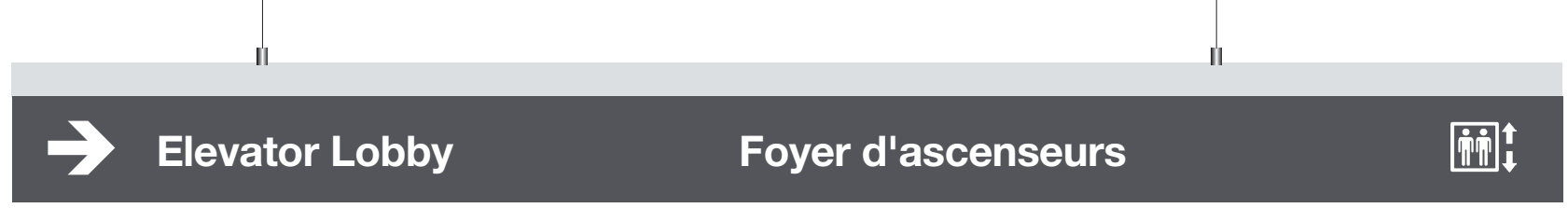
50 mm Header band on sign face, returns and exposed second surface areas to be printed, masked, and painted to match ACCENT GRAY



Back side

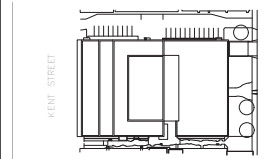


Directional Sign - (D1.1b-S-B)
 2200mm x 200mm x 25mm
 Scale 1:10
 (2)-sided Dense Foam Core Board hanging sign w/digital graphics.
 Edge painted to match faces.
 Hang 2400mm from floor to sign bottom .

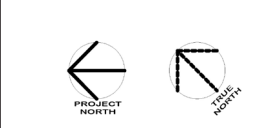


Back side

key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23

project

**DANIEL J
 MACDONALD
 MODERNIZATION**
 Charlottetown, P.E.I.

drawing

**D SERIES -
 DIRECTIONAL SIGN**

scale

As noted

project number.

ONBL17-0127

drawing no.

25

■ D SERIES - DIRECTIONAL SIGNS (D1) - BUILDING DIRECTIONAL SIGN - 1ST FLOOR

Ceiling mounted



50 mm Header band on sign face, returns and exposed second surface areas to be printed, masked, and painted to match FLOOR ACCENT COLOUR (refer to page 3)

D1.2-S-1.181 Facing South (Grafton st. Entrance)

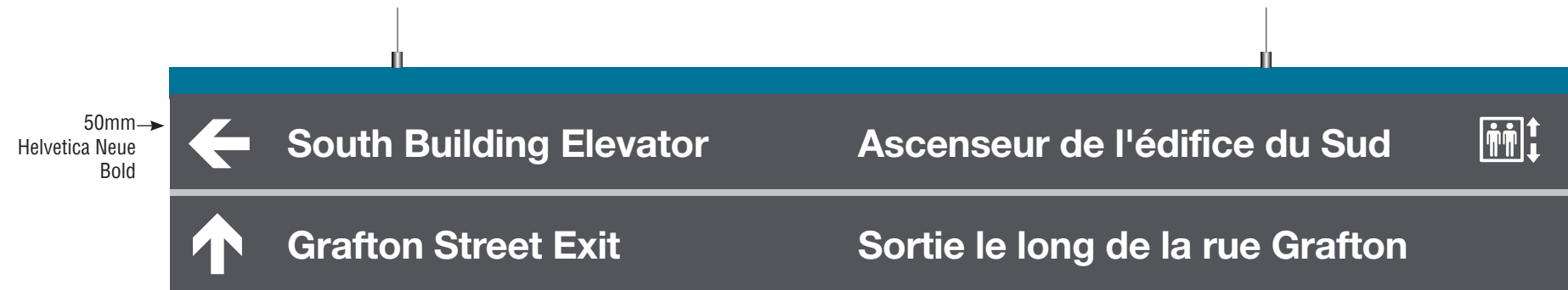
2200mm x 403mm x 25mm

Scale 1:10

(2)-sided Dense Foam Core Board hanging sign w/digital graphics.

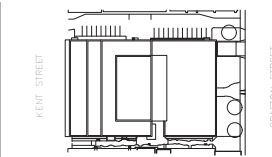
Edge painted to match faces.

Hang 2400mm from floor to sign bottom .

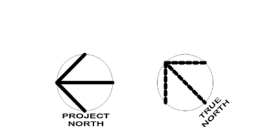


Back side
Facing North

key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23

project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**D SERIES -
DIRECTIONAL SIGN**

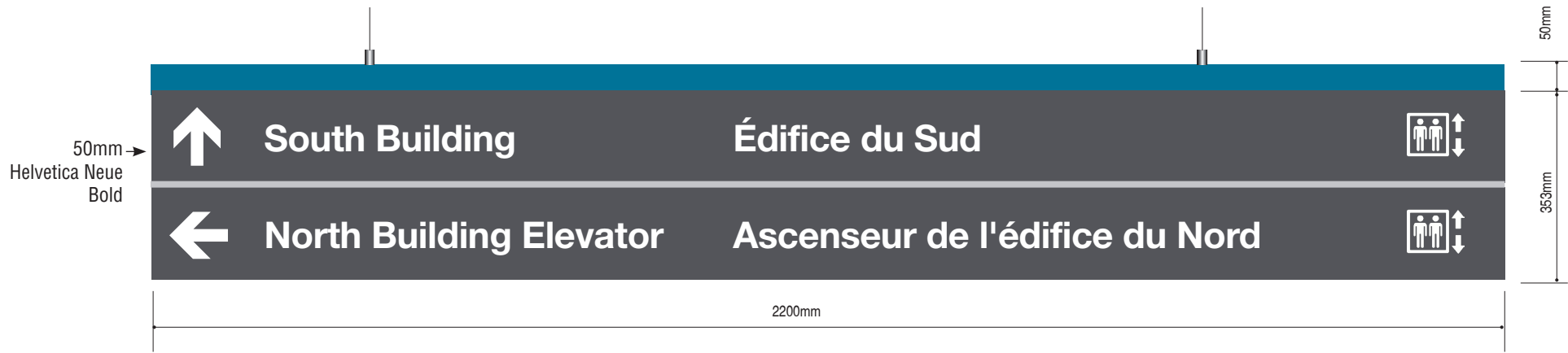
scale
As noted

project number.
ONBL17-0127

drawing no.
26

■ D SERIES - DIRECTIONAL SIGNS (D1) - BUILDING DIRECTIONAL SIGN - 1ST FLOOR

Ceiling mounted



50 mm Header band on sign face, returns and exposed second surface areas to be printed, masked, and painted to match FLOOR ACCENT COLOUR (refer to page 3)

D1.2-S-2.126 Facing North (Kent st. Entrance)

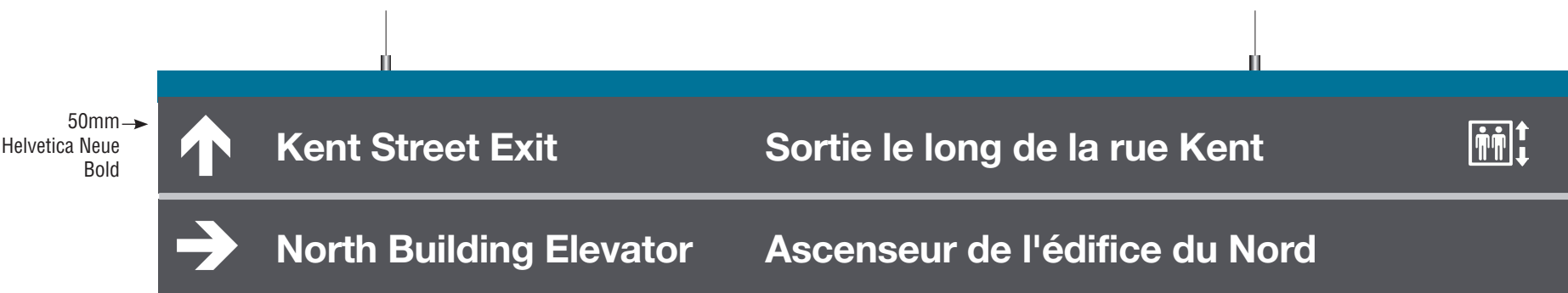
2200mm x 403mm x 25mm

Scale 1:10

(2)-sided Dense Foam Core Board hanging sign w/digital graphics.

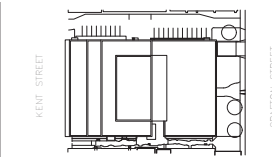
Edge painted to match faces.

Hang 2400mm from floor to sign bottom .

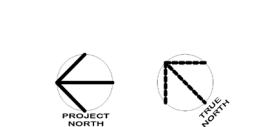


Back side
Facing South

key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23

project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**D SERIES -
DIRECTIONAL SIGN**

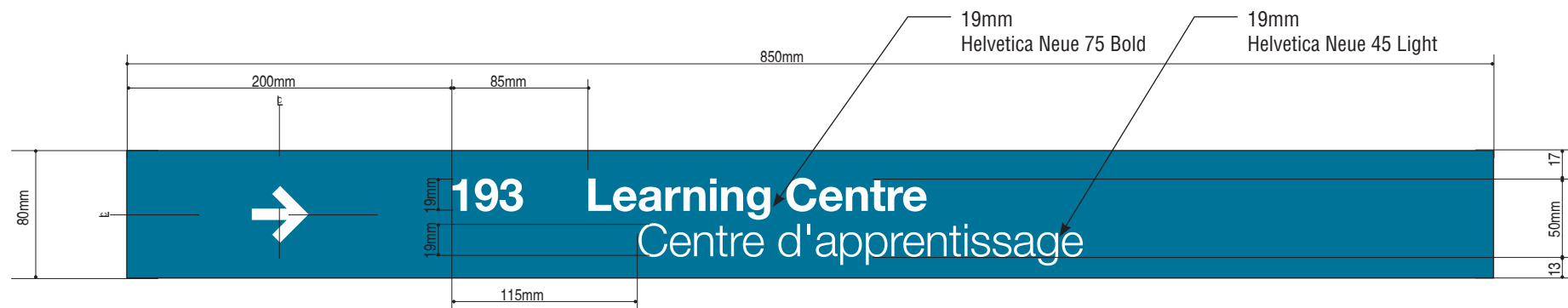
scale
As noted

project number.
ONBL17-0127

drawing no.
27

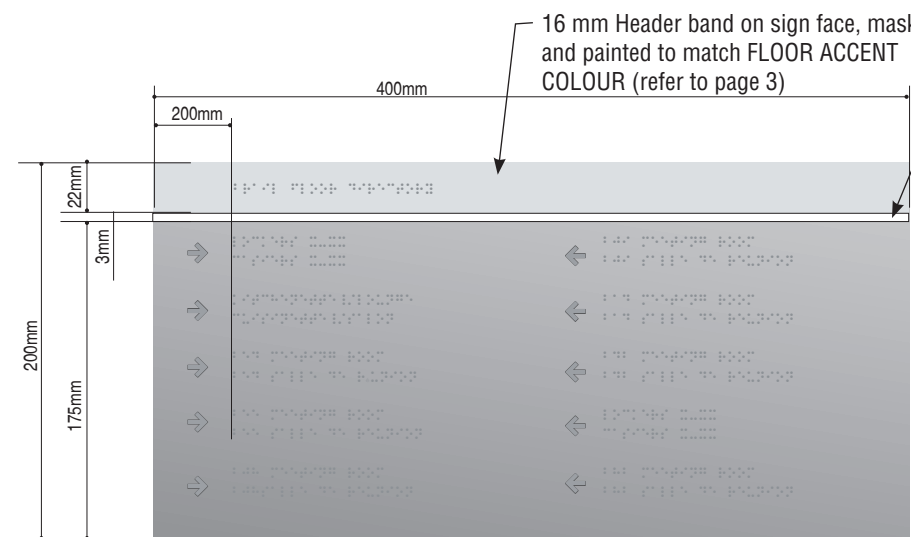
■ D SERIES - DIRECTIONAL SIGNS (D2) - FLOOR DIRECTIONAL SIGN - ELEVATOR LOBBY

D2 Typical sign, Wall mounted



D2.1 - Elevator Lobby Directional sign - Typical Sign Plate

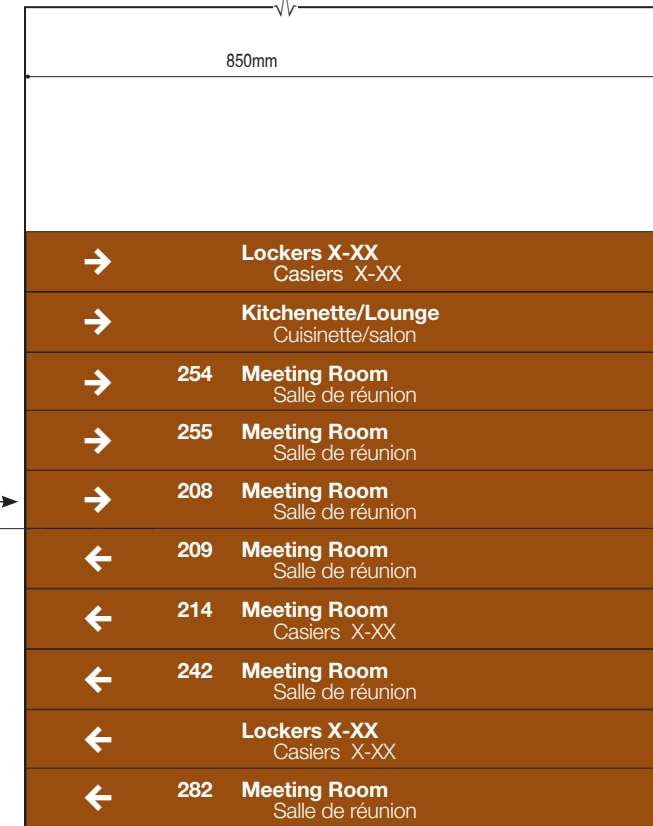
Scale 1:4
 850mm x 80mm x 3mm Individual sign plates.
 Number of plates vary for every floor elevator lobby.
 Non-glare acrylic.
 Painted to match FLOOR ACCENT COLOUR (refer to page 3). Edge painted to match faces.
 Tape mounted to wall.



D2.1a- Typical Braille Elevator Lobby Directional sign

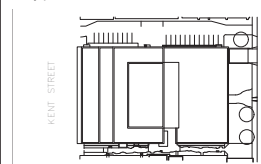
Scale 1:4
 400mm x 200mm x 3mm Stainless steel.
 Heading colour to match FLOOR ACCENT COLOUR (refer to page 3). Edge painted to match faces.
 Tape mounted to wall.

850mm x 80mm x 3mm individual sign plates w/ digital graphics.
 Non-glare acrylic. Tape mounted to wall.
 Returns and exposed second surface areas to be printed, masked, and painted to match FLOOR ACCENT COLOUR (refer to page 3)

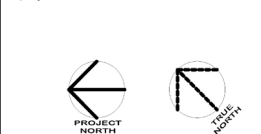


D2.1 Wall mounting guidelines
 Scale 1:10

key plan



project and true North



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project
DANIEL J MACDONALD MODERNIZATION
 Charlottetown, P.E.I.

drawing
D SERIES - DIRECTIONAL SIGN

scale
 As noted

project number.
 ONBL17-0127

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 28



■ D SERIES - DIRECTIONAL SIGNS (D2) - FLOOR DIRECTIONAL SIGN - ELEVATOR LOBBY

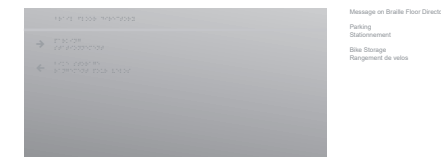
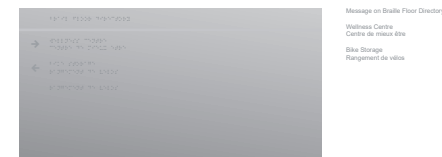
Wall mounted

→	Wellness Centre Centre de mieux-être
←	Bike Storage Rangement de vélos

→	Parking Stationnement
→	Bike Storage Rangement de vélos

D2.1-W-B
Elevator Lobby Directional sign - North Lobby
Scale 1:10

D2.2-W-B
Elevator Lobby Directional sign - South Lobby
Scale 1:10



D2.1a-W-B
Braille Elevator Lobby Directional sign - North Lobby

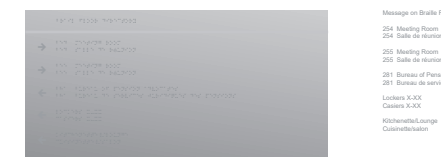
D2.2a-W-B
Braille Elevator Lobby Directional sign - South Lobby

→	Lockers X-XX Casiers X-XX
→	Kitchenette/Lounge Cuisinette/salon
→	254 Meeting Room Salle de réunion
→	255 Meeting Room Salle de réunion
→	208 Meeting Room Salle de réunion
←	209 Meeting Room Salle de réunion
←	214 Meeting Room Salle de réunion
←	242 Meeting Room Salle de réunion
←	Lockers X-XX Casiers X-XX
←	282 Meeting Room Salle de réunion

←	254 Meeting Room Salle de réunion
←	255 Meeting Room Salle de réunion
→	281 Bureau of Pension Advocates Bureau de services juridiques des pensions
→	Lockers X-XX Casiers X-XX
→	Kitchenette/Lounge Cuisinette/salon

D2.1-W-200
Elevator Lobby Directional sign - North Lobby
Scale 1:10

D2.2-W-200
Elevator Lobby Directional sign - South Lobby
Scale 1:10



D2.1a-W-200
Braille Elevator Lobby Directional sign - North Lobby

D2.2a-W-200
Braille Elevator Lobby Directional sign - South Lobby

←	135 Department of Justice Ministère de la Justice
←	Lockers X-XX Casiers X-XX
←	Kitchenette/Lounge Cuisinette/salon
←	Atrium Atrium
←	Museum Musée
←	Learning Centre Centre d'apprentissage

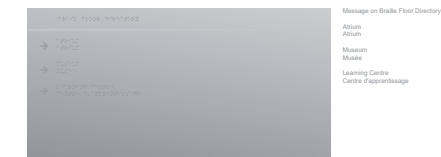
D2.1-W-100
Elevator Lobby Directional sign - North Lobby
Scale 1:10



D2.1a-W-100
Braille Elevator Lobby Directional sign - North Lobby

→	Atrium Atrium
→	Museum Musée
→	193 Learning Centre Centre d'apprentissage

D2.2-W-100
Elevator Lobby Directional sign - South Lobby
Scale 1:10



D2.2a-W-100
Braille Elevator Lobby Directional sign - South Lobby

→	Lockers X-XX Casiers X-XX
→	Kitchenette/Lounge Cuisinette/salon
→	308 Meeting Room Salle de réunion
→	344 Meeting Room Salle de réunion
→	345 Meeting Room Salle de réunion
←	309 Meeting Room Salle de réunion
←	Lockers X-XX Casiers X-XX

D2.1-W-300
Elevator Lobby Directional sign - North Lobby
Scale 1:10



D2.1a-W-300
Braille Elevator Lobby Directional sign - North Lobby

←	344 Meeting Room Salle de réunion
←	347 Meeting Room Salle de réunion
→	Lockers X-XX Casiers X-XX
→	Kitchenette/Lounge Cuisinette/salon
→	365 Meeting Room Salle de réunion
→	373 Meeting Room Salle de réunion

D2.2-W-300
Elevator Lobby Directional sign - South Lobby
Scale 1:10



D2.2a-W-300
Braille Elevator Lobby Directional sign - South Lobby

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

NORR
NORR Architects & Engineers Limited
An Ingenium Group Company

175 Bloor St. East
North Tower, 15th Floor
Toronto, ON, Canada M4W 3R8
norr.com

key plan

project and true North

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revisions.	description	date

project

DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing

D SERIES - DIRECTIONAL SIGN

scale

As noted

project number.

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drawing no.

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■ D SERIES - DIRECTIONAL SIGNS (D2) - FLOOR DIRECTIONAL SIGN - ELEVATOR LOBBY

Wall mounted

→	Lockers X-XX Casiers X-XX
→	Kitchenette/Lounge Cuisinette/salon
→	408 Meeting Room Salle de réunion
→	436 Meeting Room Salle de réunion
←	409 Meeting Room Salle de réunion
←	Lockers X-XX Casiers X-XX

→	504 Minister Office Cabinet du ministre
→	505 Cabinet Business Unit Unité des affaires du cabinet
→	Kitchenette/Lounge Cuisinette/salon
→	510 Meeting Room Salle de réunion
→	540 Meeting Room Salle de réunion
←	512 Meeting Room Salle de réunion
←	525a Deputy Minister Office Bureau du sous-ministre
←	Lockers X-XX Casiers X-XX

D2.1-W-400
Elevator Lobby Directional sign - North Lobby
Scale 1:10

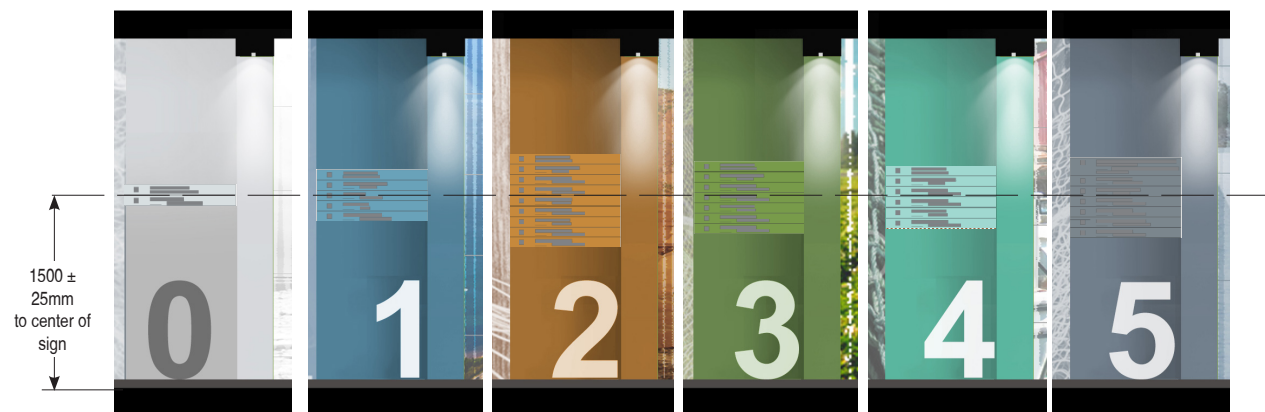


D2.1a-W-400
Braille Elevator Lobby Directional sign - North Lobby

D2.1-W-500
Elevator Lobby Directional sign - North Lobby
Scale 1:10

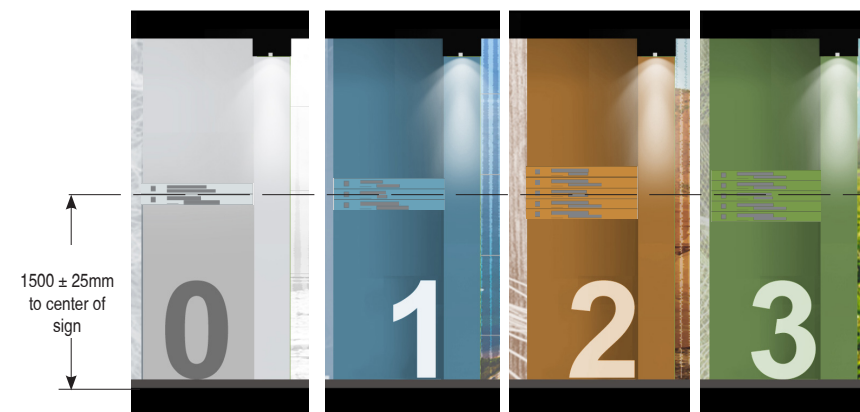


D2.1a-W-500
Braille Elevator Lobby Directional sign - North Lobby



North Elevator Lobby Signs
NTS

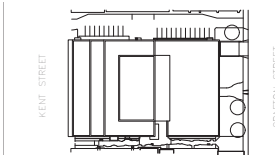
D2.1 - Elevator Lobby Directional sign - North Lobby
NTS
850mm x 80mm x 3mm Individual sign plates.
Number of plates vary for every floor elevator lobby.
Non-glare acrylic.
Painted to match FLOOR ACCENT COLOUR (refer to page 3). Edge painted to match faces.
Tape mounted to wall.



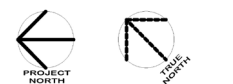
South Elevator Lobby Signs
NTS

D2.2 - Elevator Lobby Directional sign - South Lobby
NTS
850mm x 80mm x 3mm Individual sign plates.
Number of plates vary for every floor elevator lobby.
Non-glare acrylic.
Painted to match FLOOR ACCENT COLOUR (refer to page 3). Edge painted to match faces.
Tape mounted to wall.

key plan



project and true North



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revisions.	description	date

project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
D SERIES - DIRECTIONAL SIGN

scale
As noted

project number.
ONBL17-0127

drawing no.
30

AS SERIES - AMENITY SIGNS

Colour coding on floor plan

■ AS SERIES - AMENITY SIGNS (AS)

AS1 Typical sign, Wall mounted



16 mm Header band on sign face, masked, and painted to match FLOOR ACCENT COLOUR (refer to page 3)

Amenity Sign (AS1)

228mm x 228mm x 3mm.
 Scale 1:1
 Non-glare acrylic.
 Edge painted to match faces.
 Tape mounted to wall at 150 ± 10mm to door opening side and 1500 ± 25mm to floor from sign center
 All graphics: Tactile & Braille, incl. rule.

Background colour: to match COOL GRAY
 Header band: to match FLOOR ACCENT COLOUR (refer to page 3)

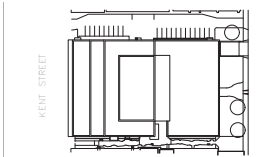
Pictogram:
 Raised 1mm and painted/or vinyl graphic on face

16mm Helvetica (OTF) Bold Condensed Tactile
 1mm raised text w/face painted to match WHITE

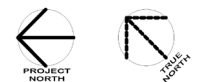
Accent: 3mm divider line Tactile

Braille:
 Grade 1 Raised 1mm and painted on face to match background colour. (bilingual)

key plan



project and true North



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project
DANIEL J MACDONALD MODERNIZATION
 Charlottetown, P.E.I.

drawing
AS SERIES - AMENITY SIGNS

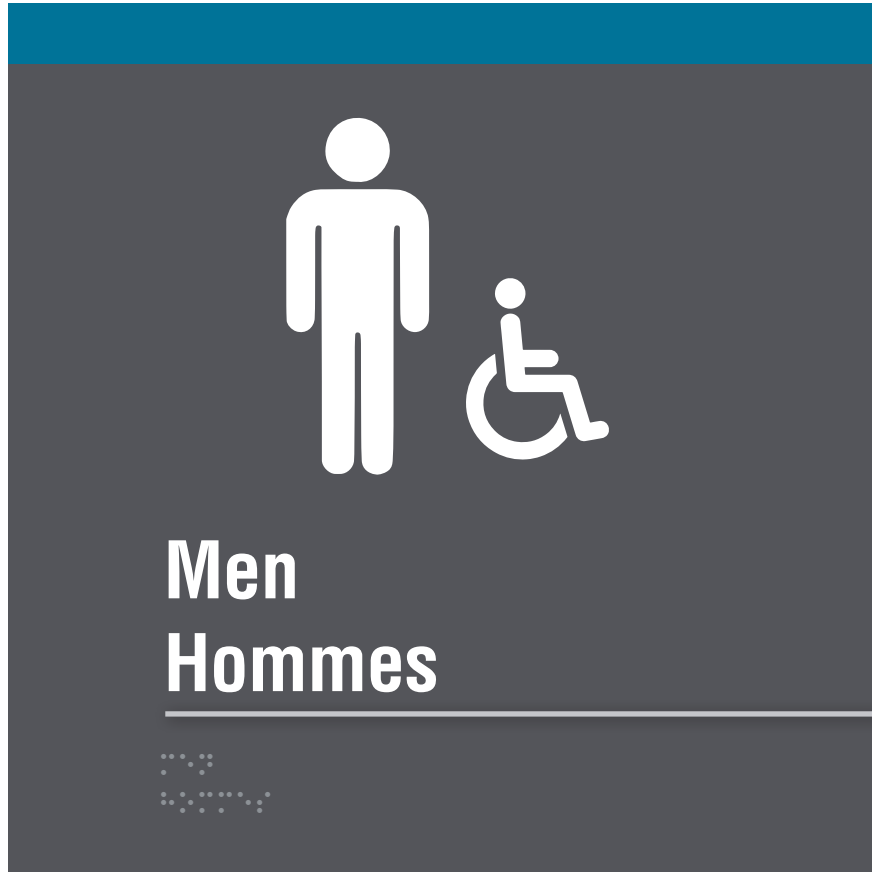
scale
 As noted

project number.
 ONBL17-0127

drawing no.
 32

■ AS SERIES - AMENITY SIGNS (AS)

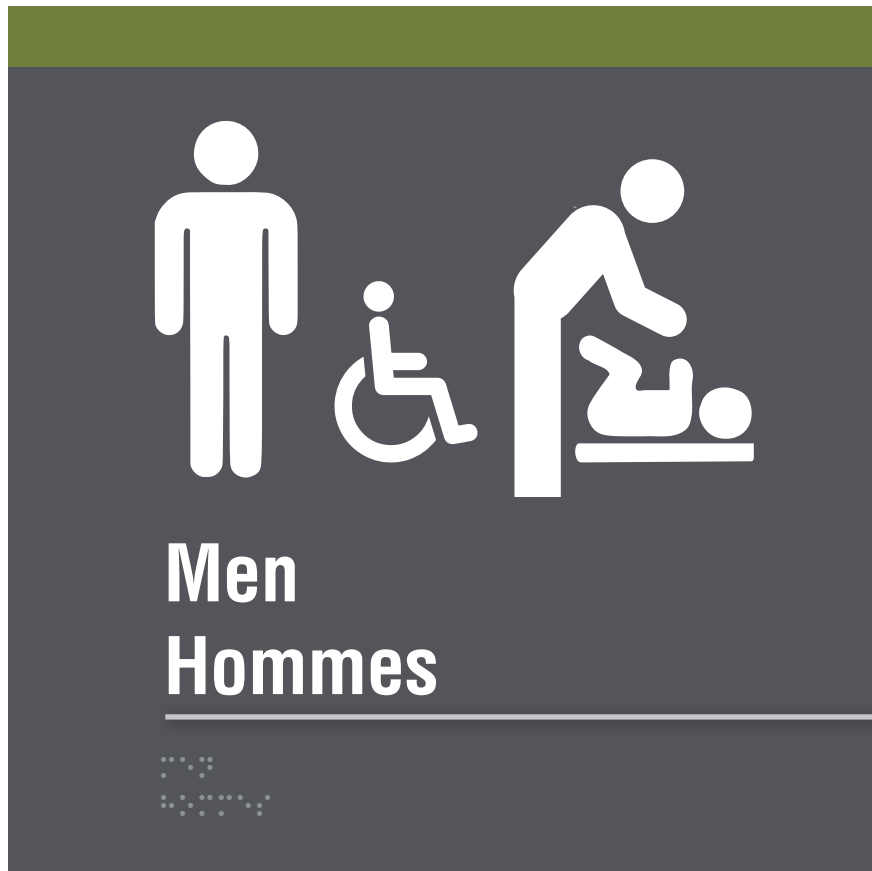
Wall mounted



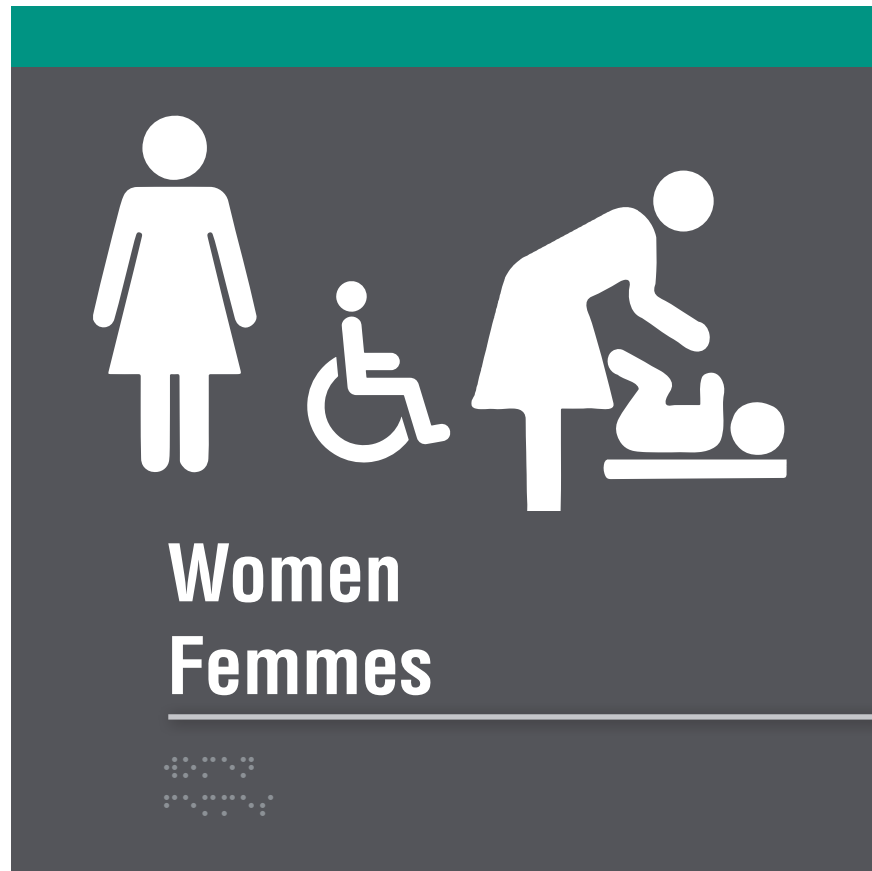
AS1.1-W-Room #



AS1.2-W-Room #



AS1.1a-W-184



AS1.2a-W-185

16 mm Header band on sign face, masked, and painted to match FLOOR ACCENT COLOUR (refer to page 3)

Amenity Signs (AS1)

228mm x 228mm x 3mm.

Scale 1:2

Non-glare acrylic. Edge painted to match faces.

Tape mounted to wall 150 ± 10mm from door trim to door opening side and 1500 ± 25mm to floor from sign center

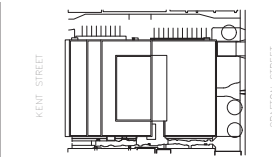
All graphics: Tactile & Braille, incl. rule.

LOCATIONS

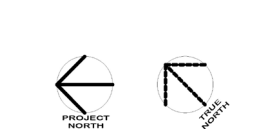
AS1.1-W-110
AS1.1-W-233
AS1.1-W-261
AS1.1-W-325
AS1.1-W-357
AS1.1-W-425
AS1.1-W-536

AS1.2-W-114
AS1.2-W-237
AS1.2-W-262
AS1.2-W-329
AS1.2-W-356
AS1.2-W-429
AS1.2-W-531

key plan



project and true North



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project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**AS SERIES -
AMENITY SIGNS**

scale
As noted

project number.
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drawing no.
33

■ AS SERIES - AMENITY SIGNS (AS)

Wall mounted

16 mm Header band on sign face, masked, and painted to match FLOOR ACCENT COLOUR (refer to page 3)



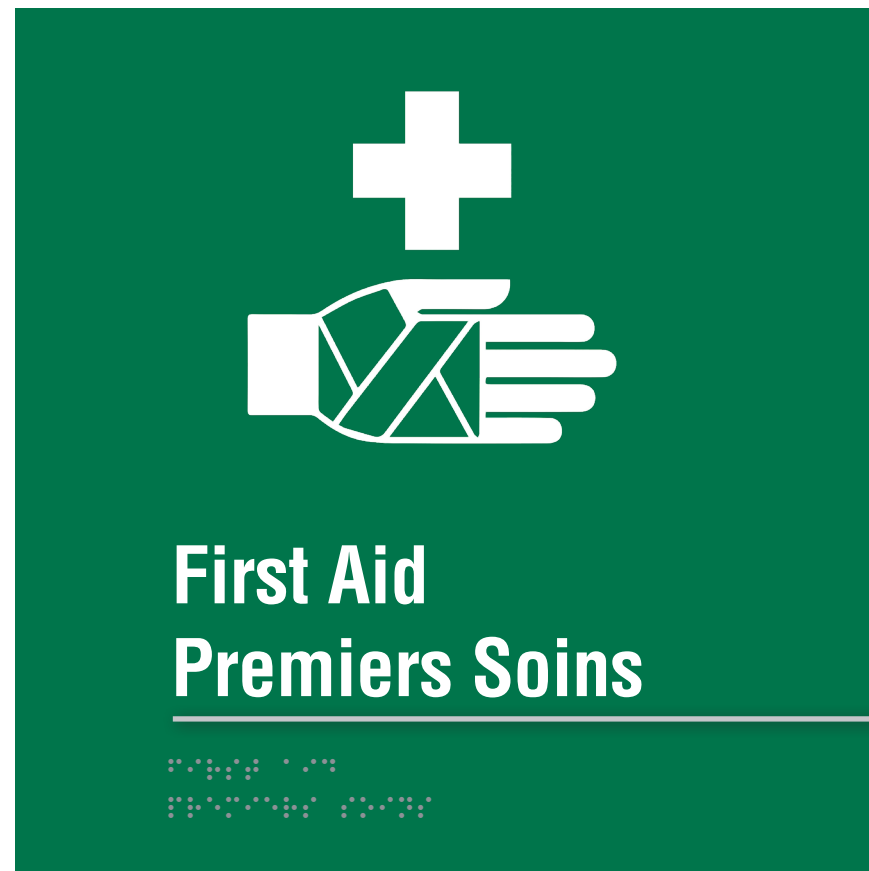
AS1.3-W-Room #



AS1.3a-W-183



AS1.3b-W-112



AS1.8-W-104a Background colour: GREEN (refer to page 3)



AS1.7-W-Room #

Amenity Signs (AS1)

228mm x 228mm x 3mm.

Scale 1:2

Non-glare acrylic. Edge painted to match faces.

Tape mounted to wall 150 ± 10mm from door trim to door opening

side and 1500 ± 25mm to floor from sign center

All graphics: Tactile & Braille, incl. rule.

LOCATIONS

AS1.3-W-235
AS1.3-W-327
AS1.3-W-427
AS1.3-W-534

AS1.7-W-B07
AS1.7-W-B07a
AS1.7-W-B08
AS1.7-W-B08a
AS1.7-W-B29

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North Tower, 15th Floor
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key plan

project and true North

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revisions.	description	date

project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
AS SERIES - AMENITY SIGNS

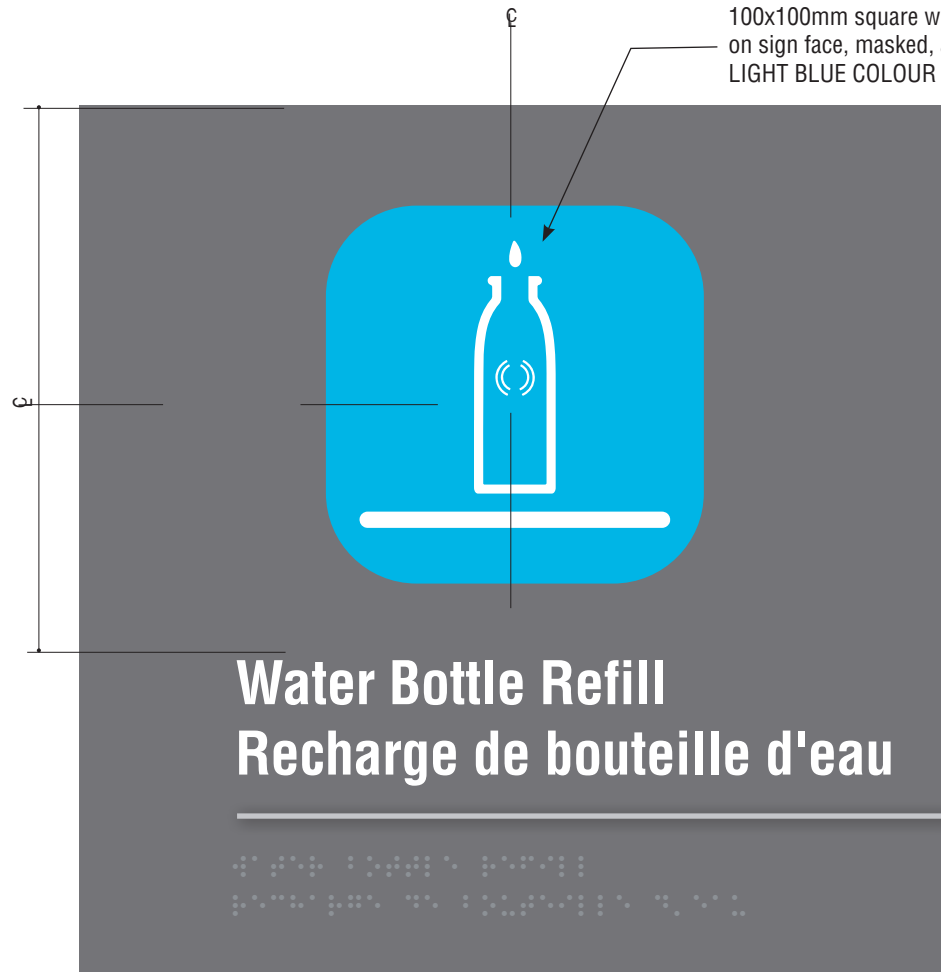
scale
As noted

project number.
ONBL17-0127

drawing no.
34

■ AS SERIES - AMENITY SIGN (AS)

Wall mounted



AS1.11-W-Room #

Amenity Sign (AS1)

228mm x 228mm x 3mm.

Scale 1:2

Non-glare acrylic. Edge painted to match faces.

Tape mounted to wall 150 ± 10mm from door trim to door opening

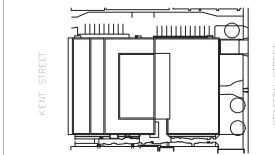
side and 1500 ± 25mm to floor from sign center

All graphics: Tactile & Braille, incl. rule.

LOCATIONS

- AS1.11-W-B02
- AS1.11-W-B29
- AS1.11-W-106
- AS1.11-W-207
- AS1.11-W-270
- AS1.11-W-307
- AS1.11-W-377
- AS1.11-W-407
- AS1.11-W-507

key plan



project and true North



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project
**DANIEL J
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MODERNIZATION**
Charlottetown, P.E.I.

drawing
**AS SERIES -
AMENITY SIGNS**

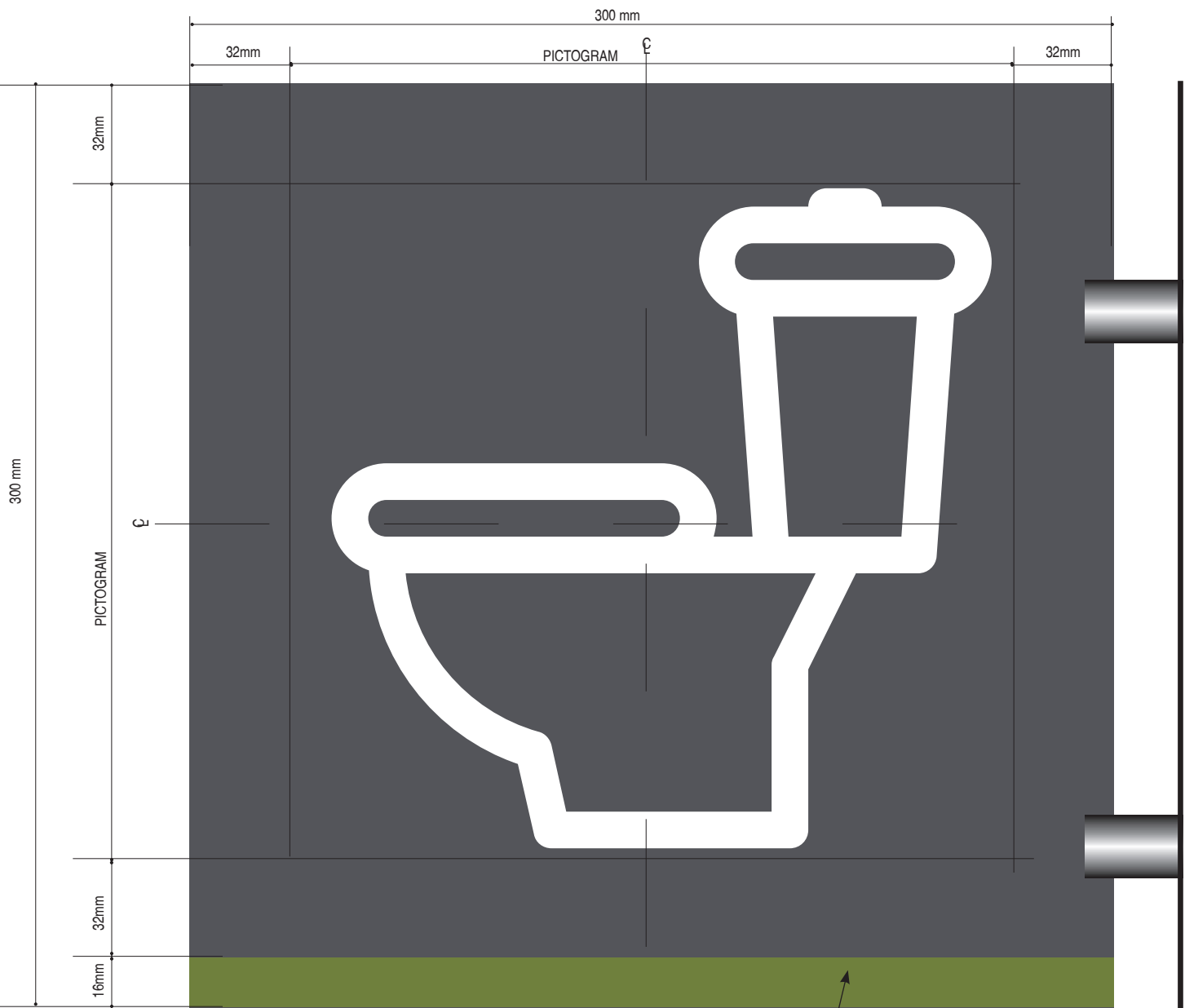
scale
As noted

project number.
ONBL17-0127

drawing no.
35

■ AS SERIES - AMENITY SIGNS (AS2)

AS2 Typical sign, Projected - Flag sign



AS2.3-P-Room #

Amenity Sign - Flag sign - AS2

300mm x 300mm x 3mm .
 Scale 1:2
 Non-glare acrylic. Edge painted to match faces.
 2-Sided flag signs
 Back to back & mounted with fasteners.
 Background colour: to match COOL GRAY
 Header band: to match FLOOR ACCENT COLOUR
 (refer to page 3)

16 mm Header band on sign face, masked, and painted to match FLOOR ACCENT COLOUR (refer to page 3)

16 mm Footer band on sign face, returns and exposed second surface areas to be printed, masked, and painted to match FLOOR ACCENT COLOUR (refer to page 3)

Pictogram:
vinyl graphic on face



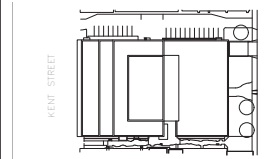
Amenity Sign - Flag sign - AS2

300mm x 300mm x 3mm .
 Back side
 Scale 1:4

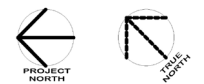
LOCATIONS

- AS2.3-W-235
- AS2.3-W-236(corr)
- AS2.3-W-327
- AS2.3-W-357
- AS2.3-W-457
- AS2.3-W-522(corr)
- AS2.3-W-534

key plan



project and true North



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project
**DANIEL J
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 Charlottetown, P.E.I.

drawing
**AS SERIES -
 AMENITY SIGNS**

scale
 As noted

project number.
 ONBL17-0127

drawing no.
36

■ AS SERIES - AMENITY SIGNS (AS2)

Projected - Flag sign



AS2.3a-P-183



back side.



AS2.3b-P-Room #



back side.



AS2.5-P-Room #



back side.

Amenity Sign - AS2 - Flag sign

300mm x 300mm x 3mm .

Scale 1:4

Non-glare acrylic. 2-Sided flag signs

Back to back & mounted with fasteners.

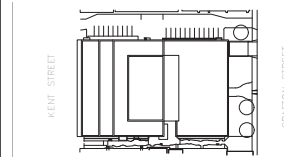
LOCATIONS

- AS2.5-P-Elevator E-03 FloorB
- AS2.5-P-Elevator E-03 Floor1
- AS2.5-P-Elevator E-03 Floor2
- AS2.5-P-Elevator E-03 Floor3
- AS2.5-P-Elevator E-03 Floor4
- AS2.5-P-Elevator E-03 Floor5

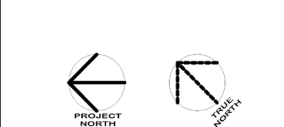
- AS2.3b-P-126
- AS2.3b-P-112*

* - sign located near room

key plan



project and true North



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Charlottetown, P.E.I.

drawing
**AS SERIES -
AMENITY SIGNS**

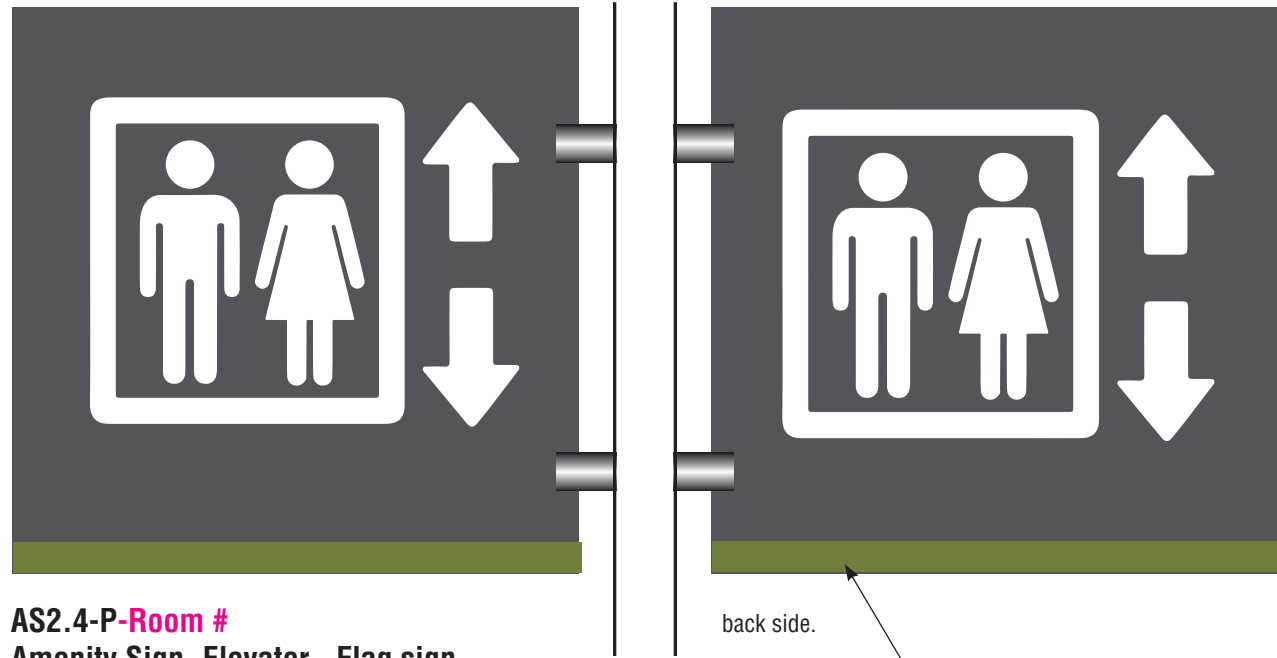
scale
As noted

project number.
ONBL17-0127

drawing no.
37

■ AS SERIES - AMENITY SIGNS (AS2)

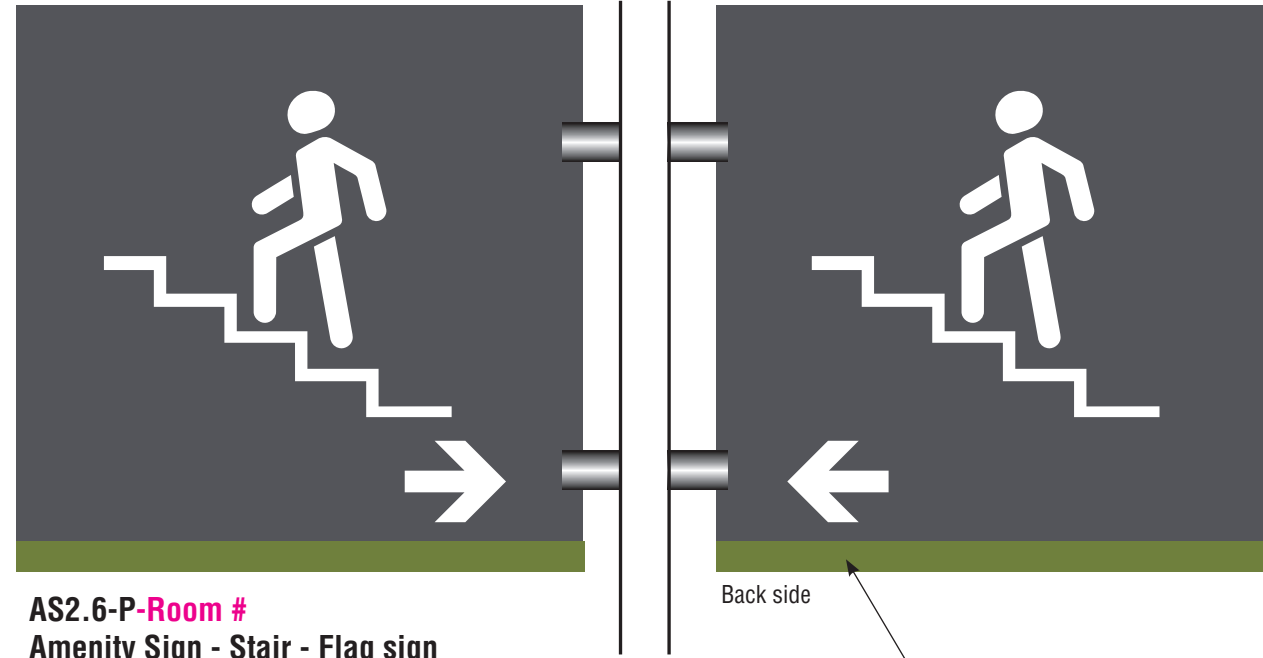
Projected - Flag sign



AS2.4-P-Room #
Amenity Sign- Elevator - Flag sign
 300mm x 300mm x 3mm .
 Scale 1:4
 Non-glare acrylic. 2-Sided flag signs
 Back to back & mounted with fasteners.

back side.

16 mm Header band on sign face, masked, and painted to match FLOOR ACCENT COLOUR (refer to page 3)



AS2.6-P-Room #
Amenity Sign - Stair - Flag sign
 300mm x 300mm x 3mm .
 Scale 1:4
 Non-glare acrylic. 2-Sided flag signs
 Back to back & mounted with fasteners.

Back side

16 mm Header band on sign face, masked, and painted to match FLOOR ACCENT COLOUR (refer to page 3)

LOCATIONS

- AS2.4-P-North Elevator Lobby FloorB
- AS2.4-P-North Elevator Lobby Floor1
- AS2.4-P-North Elevator Lobby Floor2
- AS2.4-P-North Elevator Lobby Floor3
- AS2.4-P-North Elevator Lobby Floor4
- AS2.4-P-North Elevator Lobby Floor5

- AS2.4-P-South Elevator Lobby FloorB
- AS2.4-P-South Elevator Lobby Floor1
- AS2.4-P-South Elevator Lobby Floor2
- AS2.4-P-South Elevator Lobby Floor3

LOCATIONS

- AS2.6-P-FloorB StairE*
- AS2.6-P-Floor1 StairA*
- AS2.6-P-Floor1 StairB*
- AS2.6-P-Floor1 StairC*
- AS2.6-P-Floor1 StairD*
- AS2.6-P-Floor1 StairE*

- AS2.6-P-Floor2 StairA*
- AS2.6-P-Floor2 StairB*
- AS2.6-P-Floor2 StairC*
- AS2.6-P-Floor2 StairD*
- AS2.6-P-Floor2 StairE*

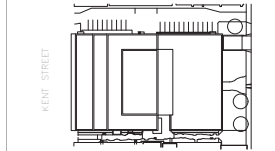
- AS2.6-P-Floor3 StairA*
- AS2.6-P-Floor3 StairB*
- AS2.6-P-Floor3 StairC*
- AS2.6-P-Floor3 StairD*
- AS2.6-P-Floor3 StairE*

- AS2.6-P-Floor4 StairA*
- AS2.6-P-Floor4 StairB*
- AS2.6-P-Floor4 StairE*

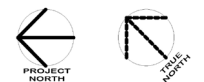
- AS2.6-P-Floor5 StairA*
- AS2.6-P-Floor5 StairB*
- AS2.6-P-Floor5 StairE*

* - sign located near room

key plan



project and true North



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1	NORR ADDENDUM #10	2022-09-01
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revisions.	description	date

project
DANIEL J MACDONALD MODERNIZATION
 Charlottetown, P.E.I.

drawing
AS SERIES - AMENITY SIGNS

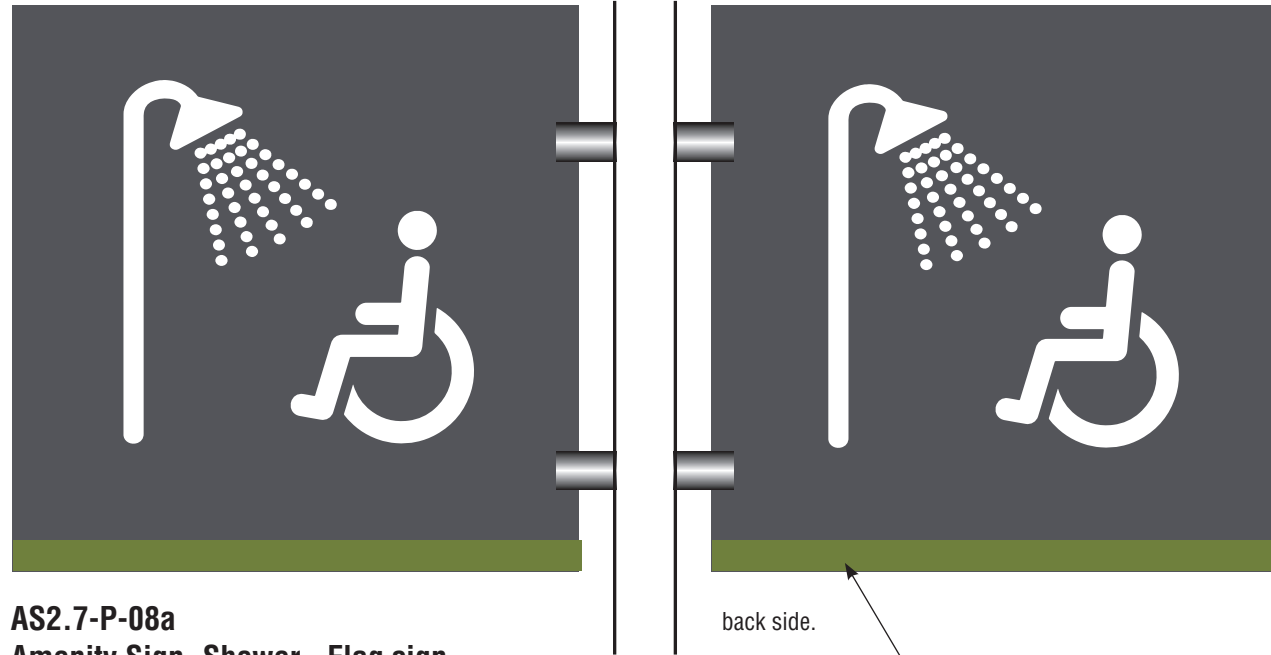
scale
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project number.
 ONBL17-0127

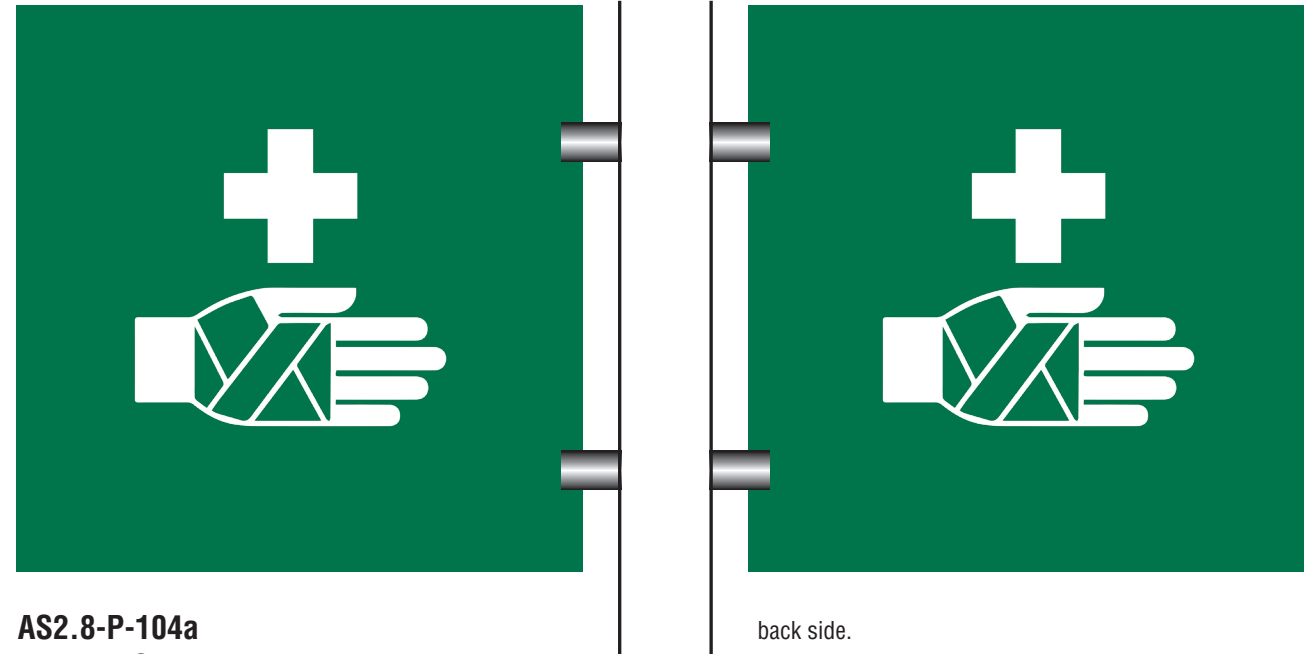
drawing no.
38

■ AS SERIES - AMENITY SIGNS (AS2)

Projected - Flag sign

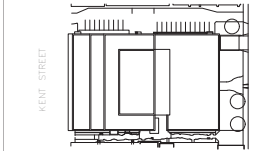


AS2.7-P-08a
Amenity Sign- Shower - Flag sign
 300mm x 300mm x 3mm .
 Scale 1:4
 Non-glare acrylic. 2-Sided flag signs
 Back to back & mounted with fasteners.

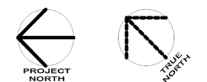


AS2.8-P-104a
Amenity Sign - First Aid - Flag sign
 300mm x 300mm x 3mm .
 Scale 1:4
 Non-glare acrylic. 2-Sided flag signs
 Back to back & mounted with fasteners.
 Background colour: GREEN (refer to page 3)

key plan



project and true North



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**AS SERIES -
 AMENITY SIGNS**

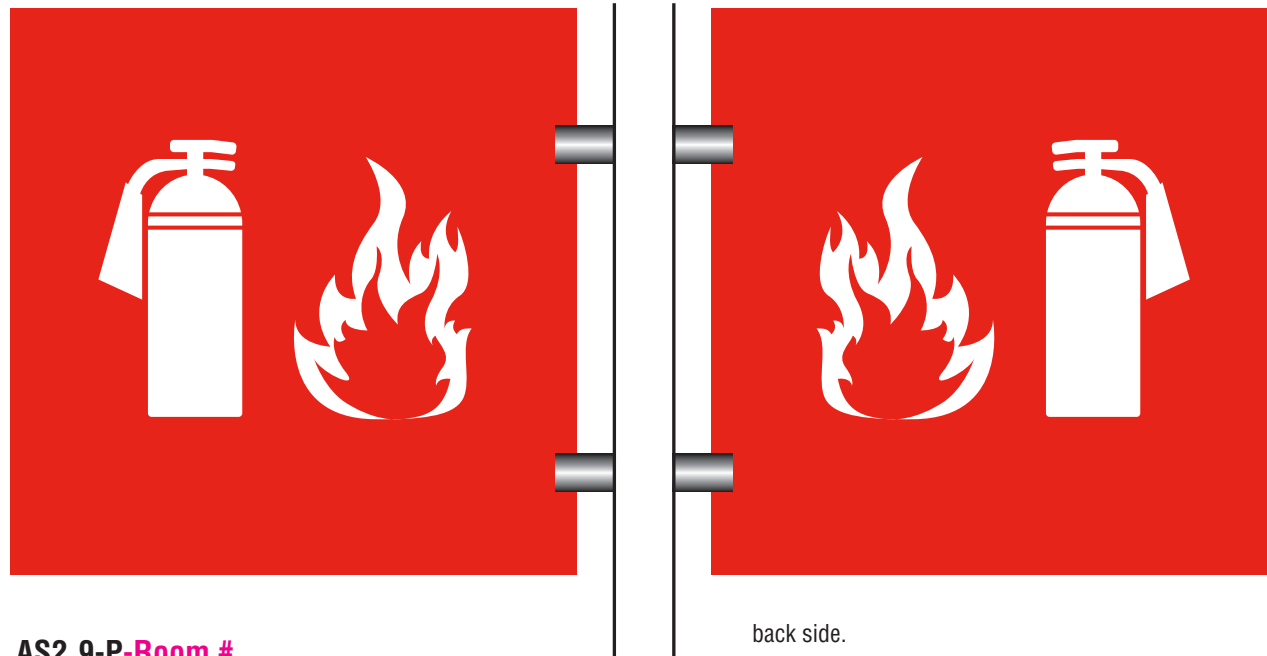
scale
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project number.
 ONBL17-0127

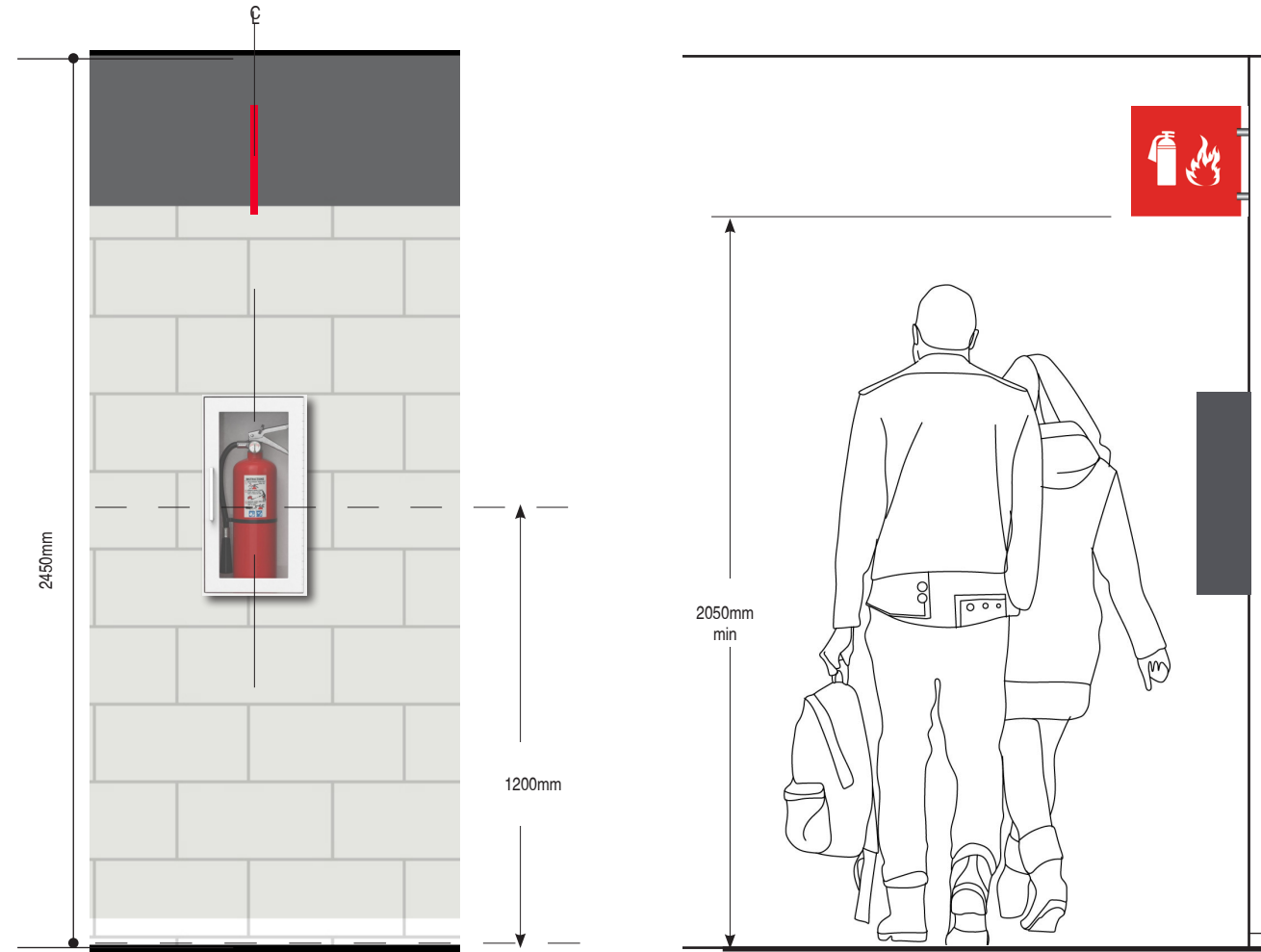
drawing no.
 39

■ AS SERIES - AMENITY SIGNS (AS2)

Projected - Flag sign



AS2.9-P-Room #
Amenity Sign - Fire extinguisher - Flag sign
 300mm x 300mm x 3mm .
 Scale 1:4
 Non-glare acrylic. 2-Sided flag signs
 Back to back & mounted with fasteners.
 Background colour: RED (refer to page 3)



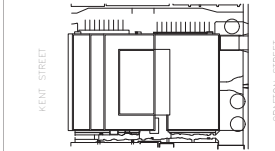
Projected-Fire extinguisher and Fire Hose Valve - Wall mounting guidelines
 Scale 1:20

LOCATIONS

- | | | | |
|----------------------|------------------|--------------|-----------------|
| AS2.9-P-B06* | AS2.9-P-114* | AS2.9-P-214* | AS2.9-P-430 |
| AS2.9-P-B13* | AS2.9-P-123e | AS2.9-P-249 | AS2.9-P-4-7 |
| AS2.9-P-Parking #1* | AS2.9-P-119a | AS2.9-P-237* | AS2.9-P-408* |
| AS2.9-P-Parking #13* | AS2.9-P-196 | AS2.9-P-239 | AS2.9-P-429* |
| AS2.9-P-Parking #19 | AS2.9-P-193 | AS2.9-P-208* | AS2.9-P-422* |
| AS2.9-P-Parking #26* | AS2.9-P-181 x 2 | AS2.9-P-334 | AS2.9-P-417* |
| AS2.9-P-Parking #42* | AS2.9-P-176* x 2 | AS2.9-P-307 | AS2.9-P-509 |
| AS2.9-P-B19B* | AS2.9-P-177 | AS2.9-P-351 | AS2.9-P-505* |
| AS2.9-P-B05 x 2 | AS2.9-P-165 | AS2.9-P-370* | AS2.9-P-510* |
| AS2.9-P-154 x 2 | AS2.9-P-249 | AS2.9-P-376* | AS2.9-P-531* |
| AS2.9-P-158* | AS2.9-P-207 | AS2.9-P-374* | AS2.9-P-514 x 2 |
| AS2.9-P-162 | AS2.9-P-277 | AS2.9-P-315* | |
| AS2.9-P-106* | AS2.9-P-269* | AS2.9-P-334 | |
| AS2.9-P-126 | AS2.9-P-287a* | AS2.9-P-329* | |
| AS2.9-P-120a | AS2.9-P-271* | AS2.9-P-302* | |

* - sign located near room

key plan



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AS SERIES - AMENITY SIGNS

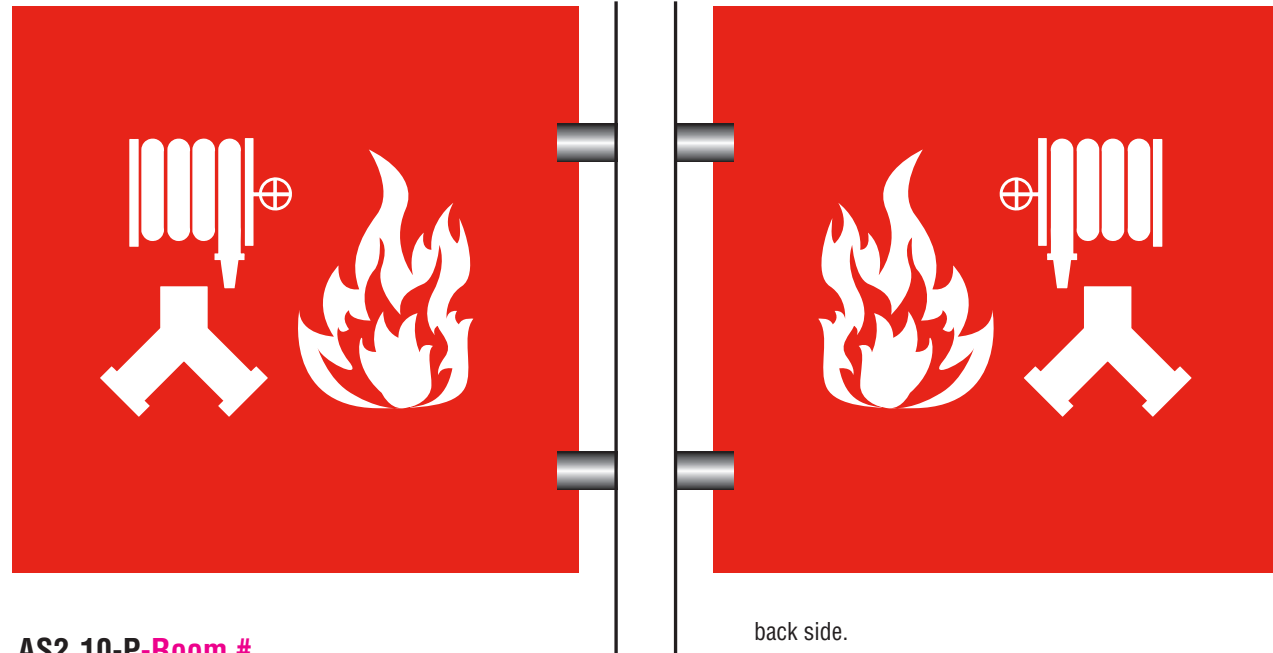
scale
 As noted

project number.
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drawing no.
 40

■ AS SERIES - AMENITY SIGN (AS2)

Projected - Flag sign



AS2.10-P-Room #
Amenity Sign - Fire Hose Valve - Flag sign
 300mm x 300mm x 3mm .
 Scale 1:4
 Non-glare acrylic. 2-Sided flag signs
 Back to back & mounted with fasteners.
 Background colour: RED (refer to page 3)

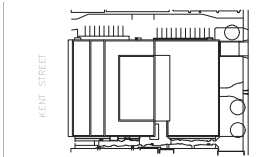
LOCATIONS

- AS2.10-P-B06*
- AS2.10-P-B14*
- AS2.10-P-B16*
- AS2.10-P-Stair 1A
- AS2.10-P-Stair 1B
- AS2.10-P-Stair 2B
- AS2.10-P-Stair 2C
- AS2.10-P-Stair 2D
- AS2.10-P-Stair 3A

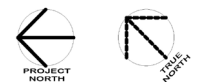
- AS2.10-P-Stair 3B
- AS2.10-P-Stair 3C
- AS2.10-P-Stair 4A
- AS2.10-P-Stair 4B
- AS2.10-P-Stair 5A
- AS2.10-P-Stair 5B

* - sign located near room

key plan



project and true North



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drawing
**AS SERIES -
 AMENITY SIGNS**

scale
 As noted

project number.
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41

■ AS SERIES - AMENITY SIGN - STAIRWELL LEVEL (AS3)

AS3 Typical sign, Wall mounted, Stair side



AS3
Stairwell Level ID Sign- wall mounted.

228mm x 228mm x 3mm.
Scale 1:2
Non-glare acrylic. Backside gray vinyl + white.
Edge painted to match faces.
Tactile numbers, rule & copy +Braille
Tape mounted to wall at 150 ± 10mm to door opening side and 1500 ± 25mm to floor from sign center

Background colour: to match COOL GRAY
Colour square: to match FLOOR ACCENT COLOUR (refer to page 3)

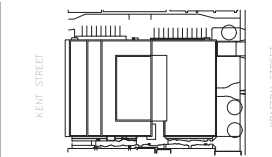


AS3-W-1E
Stairwell Level ID Sign- wall mounted.

228mm x 328mm x 3mm.
Scale 1:2
Non-glare acrylic. Backside gray vinyl + white.
Edge painted to match faces.
Tactile numbers, rule & copy +Braille
Tape mounted to wall at 150 ± 10mm to door opening side and 1500 ± 25mm to floor from sign center

Background colour: to match COOL GRAY
Colour square: to match FLOOR ACCENT COLOUR (refer to page 3)

key plan



project and true North



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AS SERIES - AMENITY SIGNS

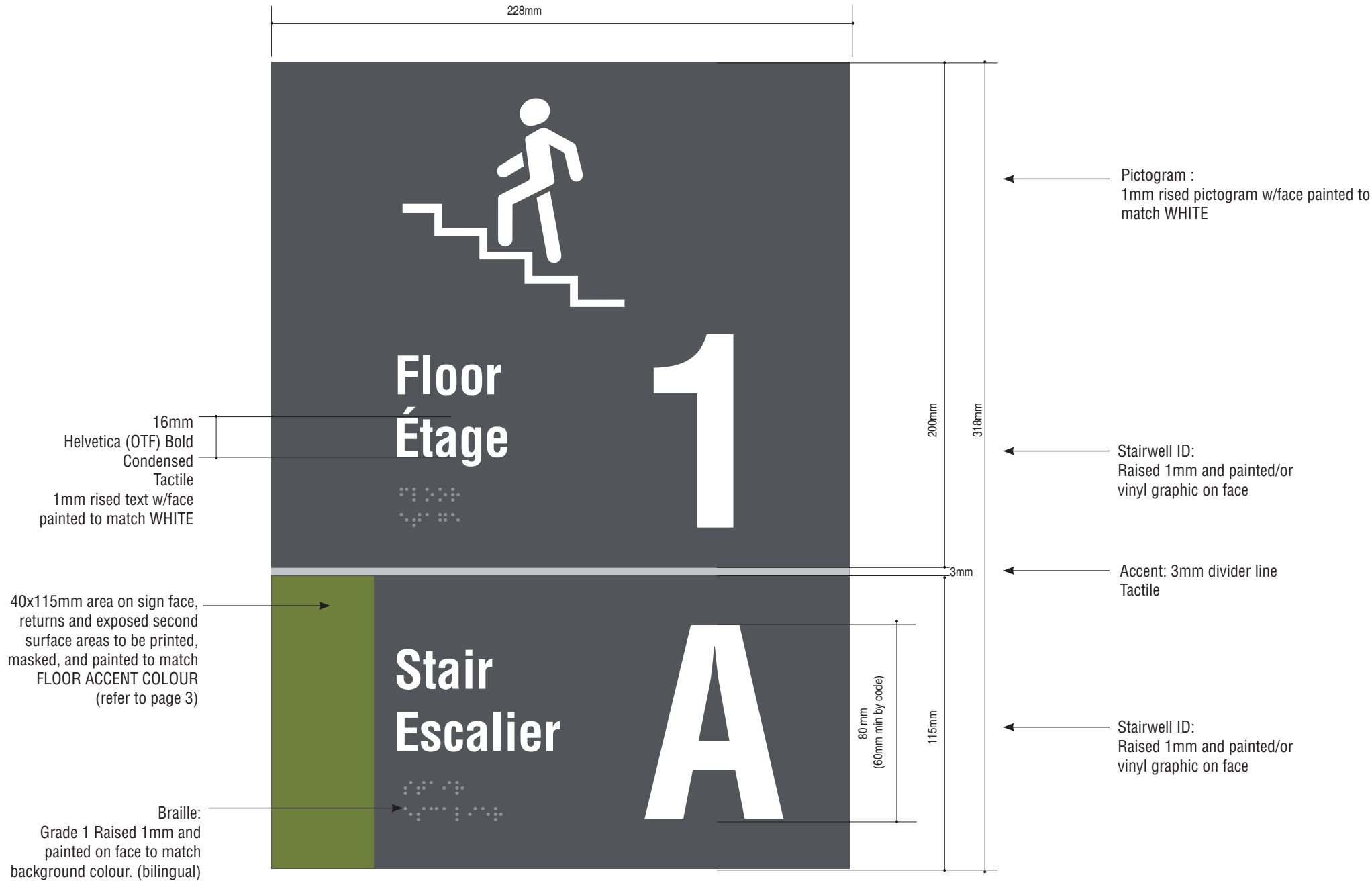
scale
As noted

project number.
ONBL17-0127

drawing no.
42

■ AS SERIES - AMENITY SIGN - STAIRWELL ENTRANCE (AS4)

AS4 Typical sign, Door mounted, Corridor side



AS4

Stairwell Level ID Sign - wall/door mounted.

228mm x 318mm x 3mm

Scale 1:2

Non-glare acrylic. Edge painted to match faces.

Backside gray vinyl + white.

Tactile numbers, rule & copy +Braille

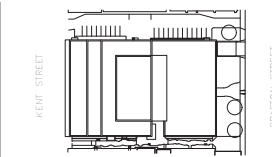
Tape mounted to wall at 150 ± 10mm to door opening side and 1500 ± 25mm to floor from sign center.

For Stair E: Tape mounted to door, centered on door and 1500 ± 25mm to floor from sign center

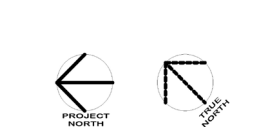
Background colour: to match COOL GRAY

Colour square: to match FLOOR ACCENT COLOUR
(refer to page 3)

key plan



project and true North



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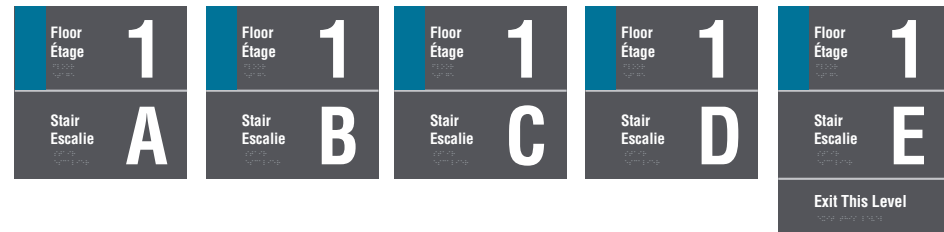
drawing
**AS SERIES -
AMENITY SIGNS**

scale
As noted

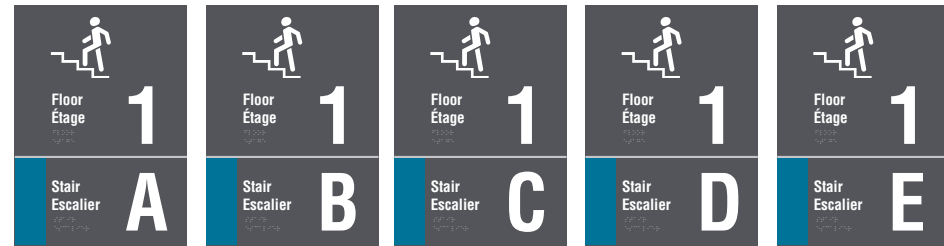
project number.
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drawing no.
43

■ AS SERIES - AMENITY SIGN - STAIRWELL ENTRANCE (AS3 & AS4)



AS3-W-1A AS3-W-1B AS3-W-1C AS3-W-1D AS3-W-1E



AS4-W-1A AS4-W-1B AS4-W-1C AS4-W-1D AS4-W-1E

Stairwell Level ID Sign - 1st floor - wall or door(stair E) mounted.
Scale 1:10



AS3-W-2A AS3-W-2B AS3-W-2C AS3-W-2D AS3-W-2E

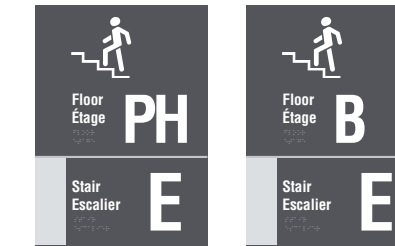


AS4-W-2A AS4-W-2B AS4-W-2C AS4-W-2D AS4-W-2E

Stairwell Level ID Sign - 2nd floor - wall or door mounted.
Scale 1:10

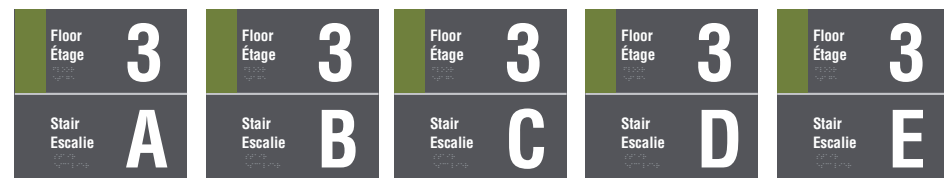


AS3-W-PHE AS3-W-BE

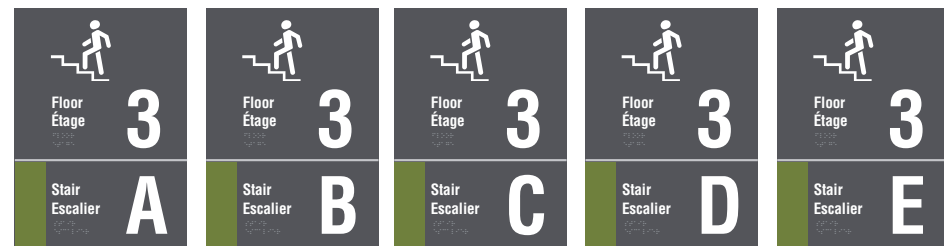


AS4-W-PHE AS4-W-BE

Stairwell Level ID Sign - PH and Basement floor - wall or door(stair E) mounted.
Scale 1:10

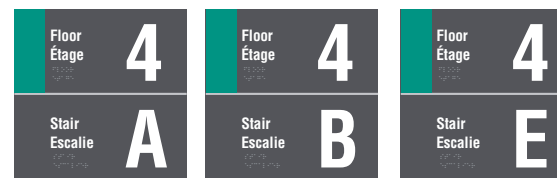


AS3-W-3A AS3-W-3B AS3-W-3C AS3-W-3D AS3-W-3E

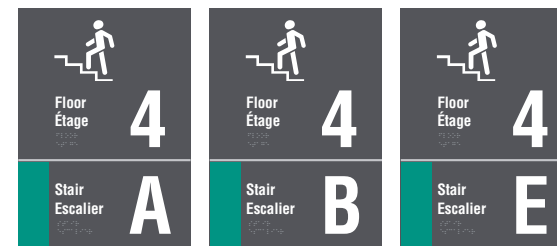


AS4-W-3A AS4-W-3B AS4-W-3C AS4-W-3D AS4-W-3E

Stairwell Level ID Sign - 3rd floor - wall or door(stair E) mounted.
Scale 1:10



AS3-W-4A AS3-W-4B AS3-W-4E

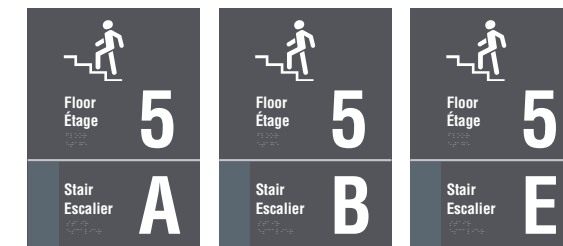


AS4-W-4A AS4-W-4B AS4-W-4E

Stairwell Level ID Sign - 4th floor - wall or door(stair E) mounted.
Scale 1:10



AS3-W-5A AS3-W-5B AS3-W-5E



AS4-W-5A AS4-W-5B AS4-W-5E

Stairwell Level ID Sign - 5th floor - wall or door(stair E) mounted.
Scale 1:10

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NORR
NORR Architects & Engineers Limited
An Ingenium Group Company
175 Bloor St. East
North Tower, 15th Floor
Toronto, ON, Canada M4W 3R8
norr.com

key plan

project and true North

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drawing

scale
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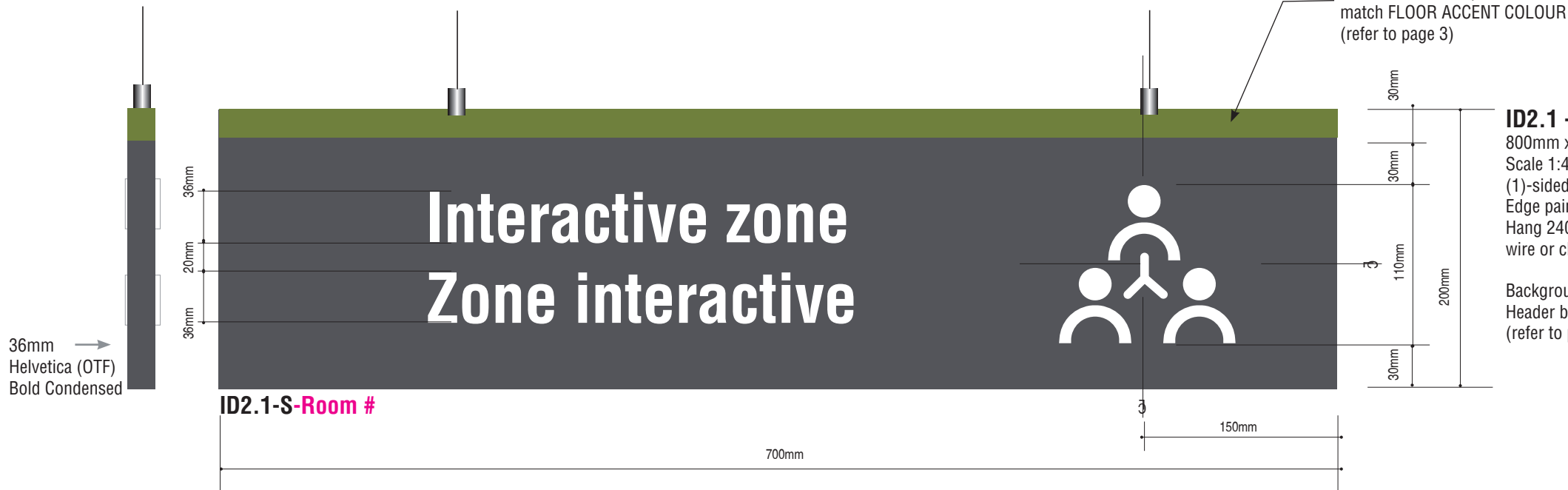
drawing no.
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ID SERIES - DESTINATION ID SIGNS

Colour coding on floor plan

■ ID SERIES - DESTINATION IDENTIFICATION - ZONES (ID2)

Ceiling mounted - suspended (ID2)



ID2.1 - Destination Identification - Ceiling mounted

800mm x X200mm x 25mm
Scale 1:4
(1)-sided Dense Foam Core Board hanging sign w/digital graphics.
Edge painted to match faces.
Hang 2400mm from floor to sign bottom with 1/16" Ø stainless steel cable wire or chains.

Background colour: to match COOL GRAY
Header band: to match FLOOR ACCENT COLOUR (refer to page 3)



ID2.2 - Destination Identification - Ceiling mounted

800mm x X200mm x 25mm
Scale 1:4
(1)-sided Dense Foam Core Board hanging sign w/digital graphics.
Edge painted to match faces.
Hang 2400mm from floor to sign bottom .

Background colour: to match COOL GRAY
Header band: to match FLOOR ACCENT COLOUR (refer to page 3)

LOCATIONS

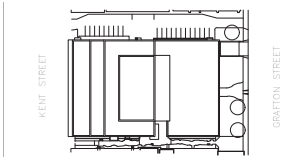
- ID2.1-S-167
- ID2.1-S-154
- ID2.1-S-142
- ID2.1-S-123F
- ID2.1-S-216
- ID2.1-S-282
- ID2.1-S-287
- ID2.1-S-373
- ID2.1-S-376
- ID2.1-S-315
- ID2.1-S-316a
- ID2.1-S-412

LOCATIONS

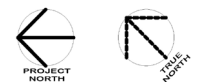
- ID2.2-S-150
- ID2.2-S-123a
- ID2.2-S-123
- ID2.2-S-230a
- ID2.2-S-251
- ID2.2-S-277
- ID2.2-S-265
- ID2.2-S-342
- ID2.2-S-301
- ID2.2-S-302
- ID2.2-S-350
- ID2.2-S-351
- ID2.2-S-430
- ID2.2-S-433
- ID2.2-S-514

ID2.1 and 2.2 Back side

key plan



project and true North



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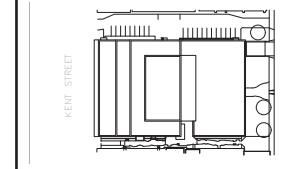
drawing
ID SERIES - DESTINATION IDENTIFICATION

scale
As noted

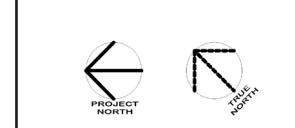
project number.
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drawing no.
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key plan



project and true North



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drawing
ID SERIES - DESTINATION IDENTIFICATION

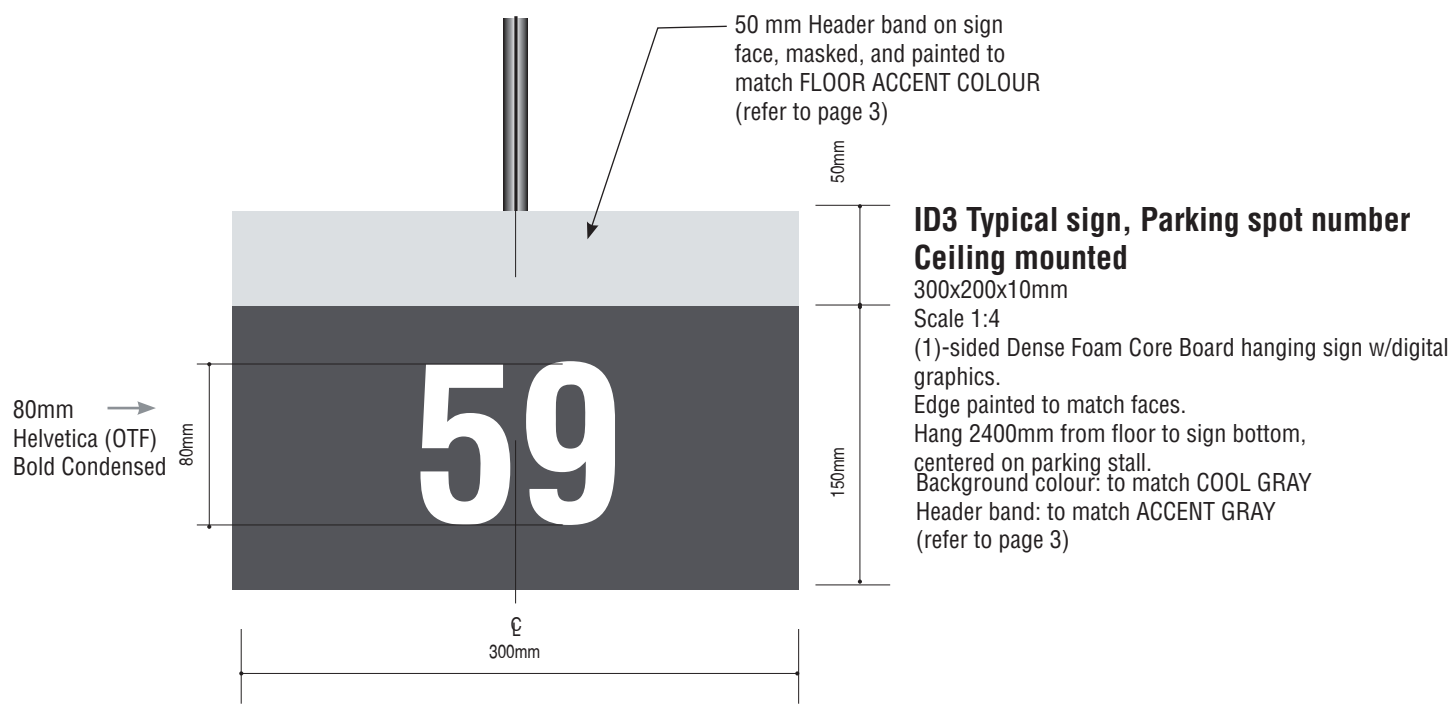
scale
As noted

project number.
ONBL17-0127

drawing no.
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■ ID SERIES - DESTINATION IDENTIFICATION - PARKING SPOT NUMBER (ID3)

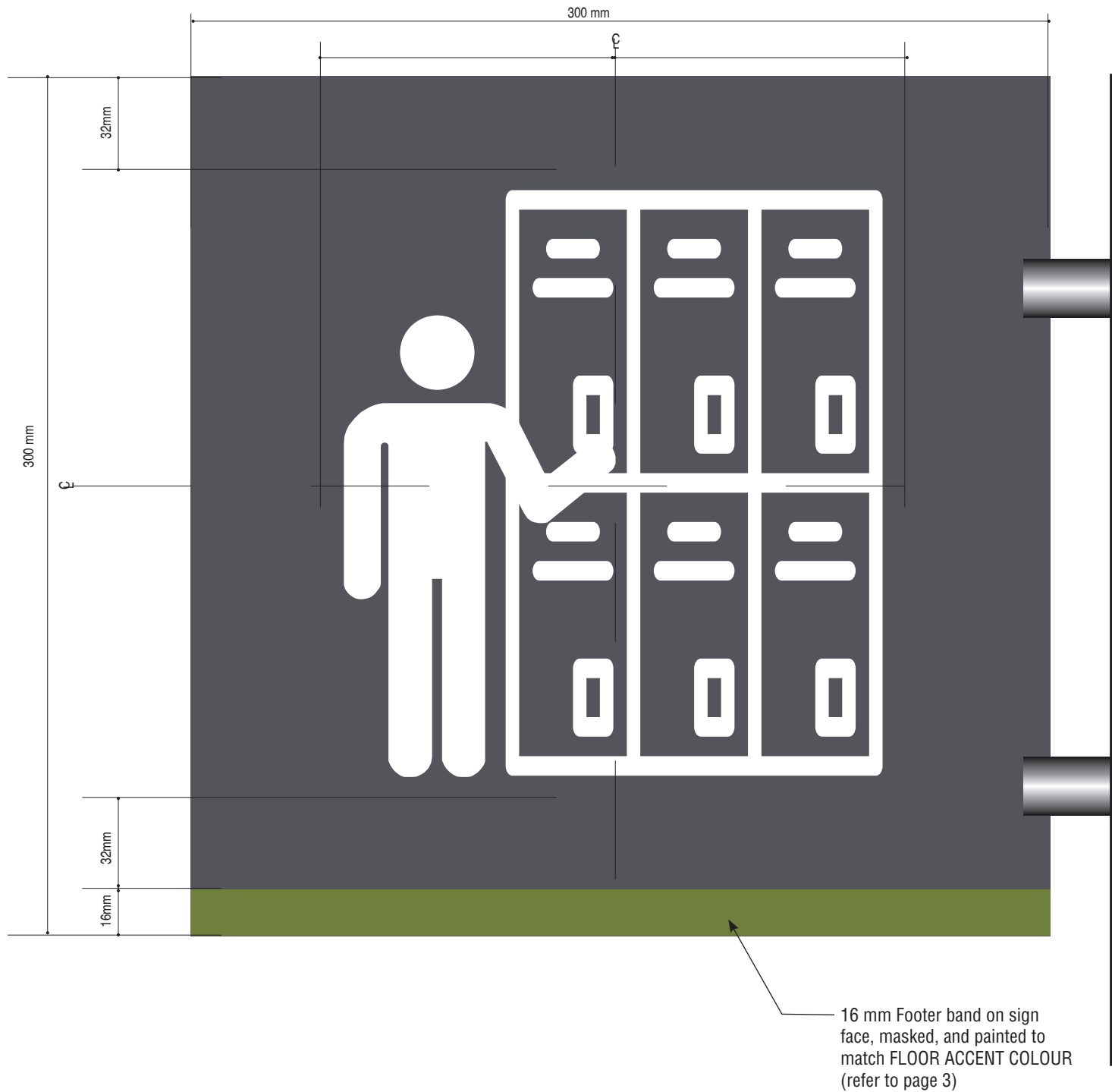
Ceiling mounted - suspended (ID3)



21 ID3-S-B21	22 ID3-S-B22	23 ID3-S-B23	24 ID3-S-B24	25 ID3-S-B25	26 ID3-S-B26	27 ID3-S-B27	28 ID3-S-B28	29 ID3-S-B29	30 ID3-S-B30
31 ID3-S-B31	32 ID3-S-B32	33 ID3-S-B33	34 ID3-S-B34	35 ID3-S-B35	36 ID3-S-B36	37 ID3-S-B37	38 ID3-S-B38	39 ID3-S-B39	40 ID3-S-B40
41 ID3-S-B41	42 ID3-S-B42	43 ID3-S-B43	44 ID3-S-B44	45 ID3-S-B45	46 ID3-S-B46	47 ID3-S-B47	48 ID3-S-B48	49 ID3-S-B49	50 ID3-S-B50
51 ID3-S-B51	52 ID3-S-B52	53 ID3-S-B53	54 ID3-S-B54	55 ID3-S-B55	56 ID3-S-B56	57 ID3-S-B57	58 ID3-S-B58	59 ID3-S-B59	60 ID3-S-B60
61 ID3-S-B61	62 ID3-S-B62	1A ID3-S-B1A	2A ID3-S-B2A	3A ID3-S-B3A	4A ID3-S-B4A				

Destination Identification - Parking spot number
300x200x10mm
Scale 1:10
Non-glare acrylic. 1-Sided suspended sign

■ ID SERIES - DESTINATION IDENTIFICATION - AREA DESTINATION (ID4)
ID4 Typical signs, Wall Mounted - Projected - Flag sign

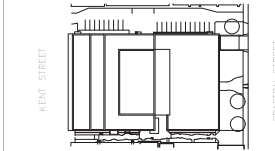


Typical ID4 Destination Identification - Area Destination Flag Sign

300mm x 300mm x 3mm
 Scale 1:2
 Non-glare acrylic. Edge painted to match faces.
 2-Sided flag signs
 Back to back & mounted with fasteners.

Background colour: to match COOL GRAY
 Footer band: to match FLOOR ACCENT COLOUR
 (refer to page 3)

key plan



project and true North



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1	NORR ADDENDUM #10	2022-09-01
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revisions.	description	date

project
DANIEL J MACDONALD MODERNIZATION
 Charlottetown, P.E.I.

drawing
ID SERIES - DESTINATION IDENTIFICATION

scale
 As noted

project number.
 ONBL17-0127

drawing no.
 48

■ ID SERIES - DESTINATION IDENTIFICATION - AREA DESTINATION (ID4)

Wall mounted - projected (ID4)



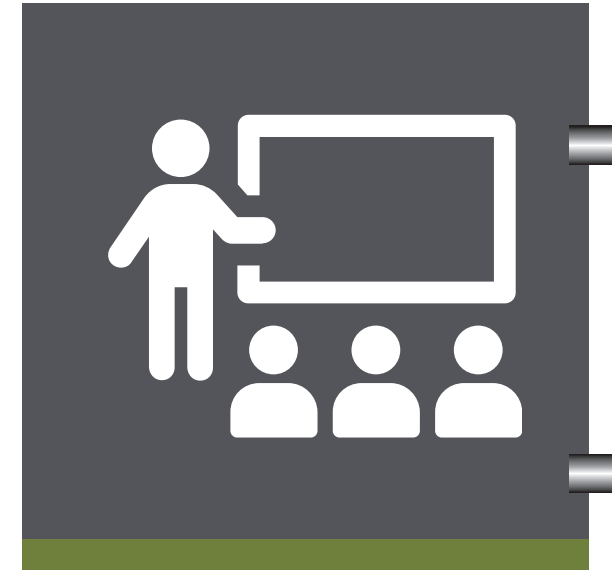
ID4.1-P-Room #
Lockers



ID4.2-P-Room #
Business Centre



ID4.4-P-Room #
Kitchenette



ID4.5-P-Room #
Training Room

Destination Identification - Flag Sign (ID4)

300mm x 300mm x 3mm

Scale 1:4

Non-glare acrylic. Edge painted to match faces.

2-Sided flag signs

Back to back & mounted with fasteners.

LOCATIONS

ID4.1-P-120a
ID4.1-P-174
ID4.1-P-269
ID4.1-P-206
ID4.1-P-248
ID4.1-P-205
ID4.1-P-305 x2
ID4.1-P-322
ID4.1-P-370
ID4.1-P-405 x2
ID4.1-P-422 x2
ID4.1-P-529

LOCATIONS

ID4.2-P-142
ID4.2-P-119a
ID4.2-P-168
ID4.2-P-263
ID4.2-P-287
ID4.2-P-215
ID4.2-P-239
ID4.2-P-301
ID4.2-P-316a
ID4.2-P-378
ID4.2-P-352
ID4.2-P-421
ID4.2-P-402a
ID4.2-P-532

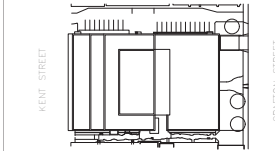
LOCATIONS

ID4.4-P-106
ID4.4-P-120
ID4.4-P-188
ID4.4-P-207
ID4.4-P-270
ID4.4-P-307
ID4.4-P-377
ID4.4-P-407
ID4.4-P-509

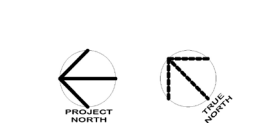
LOCATIONS

ID4.5-P-193
ID4.5-P-194

key plan



project and true North



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**DANIEL J
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Charlottetown, P.E.I.

drawing
**ID SERIES -
DESTINATION
IDENTIFICATION**

scale
As noted

project number.
ONBL17-0127

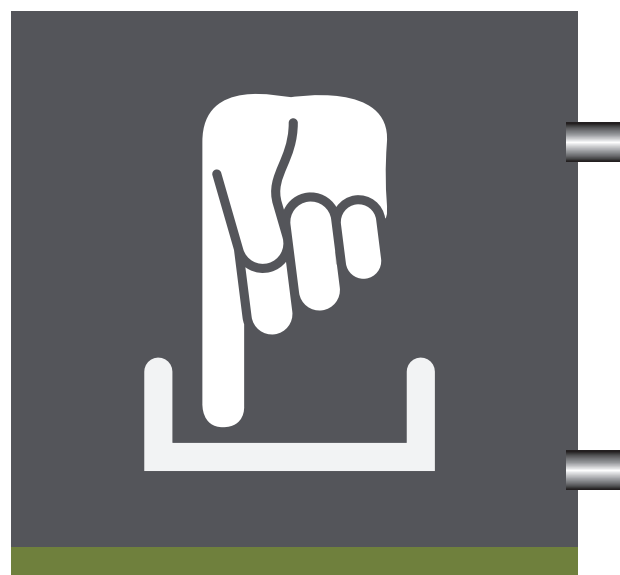
drawing no.
49

■ ID SERIES - DESTINATION IDENTIFICATION - AREA DESTINATION (ID4)

Wall mounted - projected (ID3-P)



ID4.7-P-290
Huddle



ID4.8-P-287c
Touchdown



ID4.9-P-180
Reception



ID4.10-P-Room #
Teaming area

Destination Identification - Flag Sign (ID4)

300mm x 300mm x 3mm

Scale 1:4

Non-glare acrylic. Edge painted to match faces.

2-Sided flag signs

Back to back & mounted with fasteners.

LOCATIONS

ID4.10-P-100

ID4.10-P-167

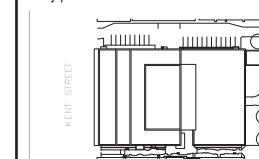
ID4.10-P-212

ID4.10-P-313

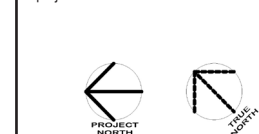
ID4.10-P-412

ID4.10-P-514

key plan



project and true North



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Charlottetown, P.E.I.

drawing

**ID SERIES -
DESTINATION
IDENTIFICATION**

scale

As noted

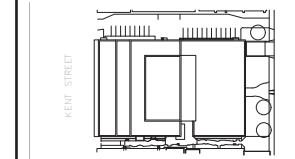
project number.

ONBL17-0127

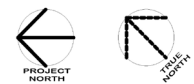
drawing no.

50

key plan



project and true North



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revisions.	description	date

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Charlottetown, P.E.I.

drawing
ID SERIES - DESTINATION IDENTIFICATION

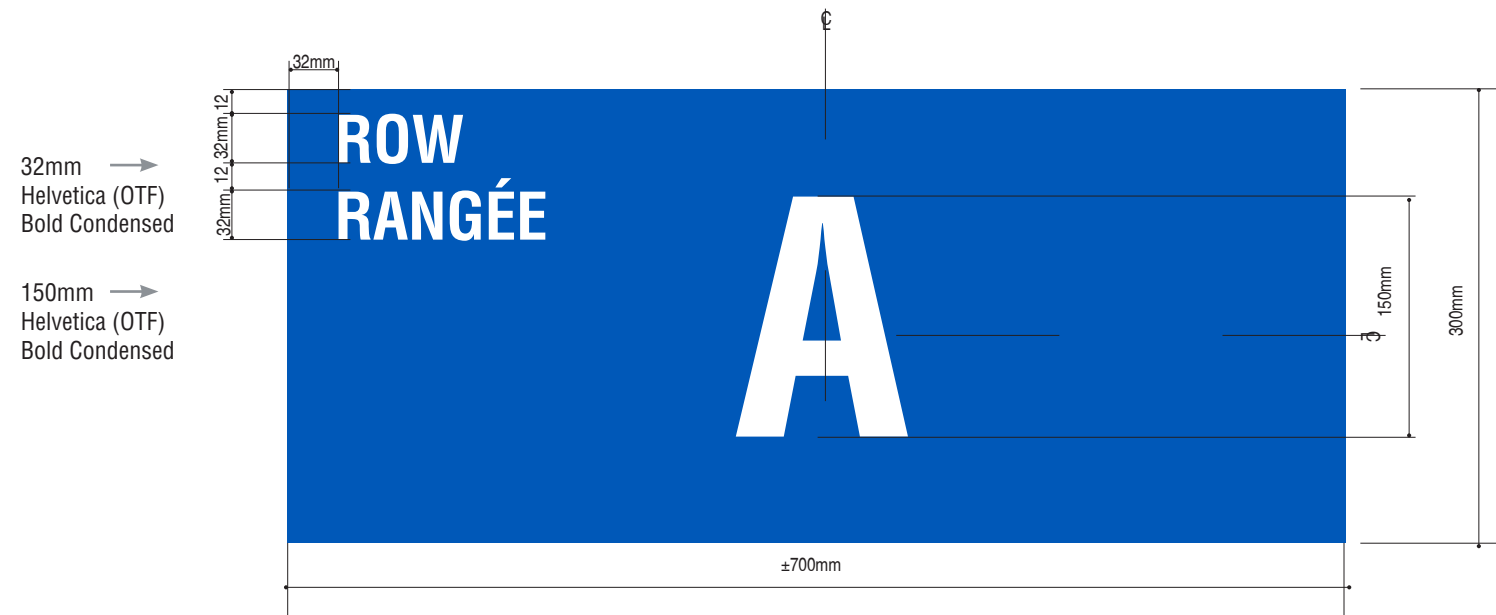
scale
As noted

project number.
ONBL17-0127

drawing no.
51

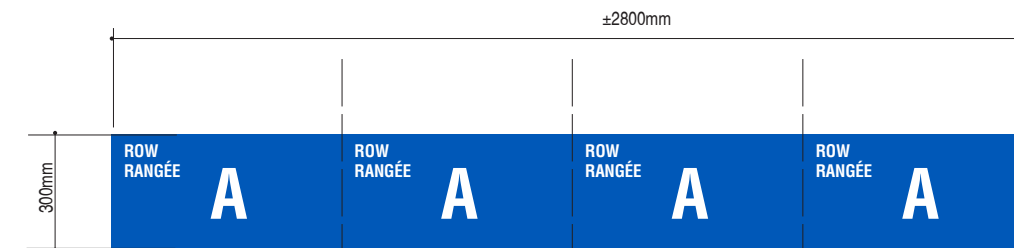
■ ID SERIES-DESTINATION IDENTIFICATION - AREA DESTINATION - PARKING ROW CODING (ID5)

ID5 Typical sign, Wall-mounted Graphics

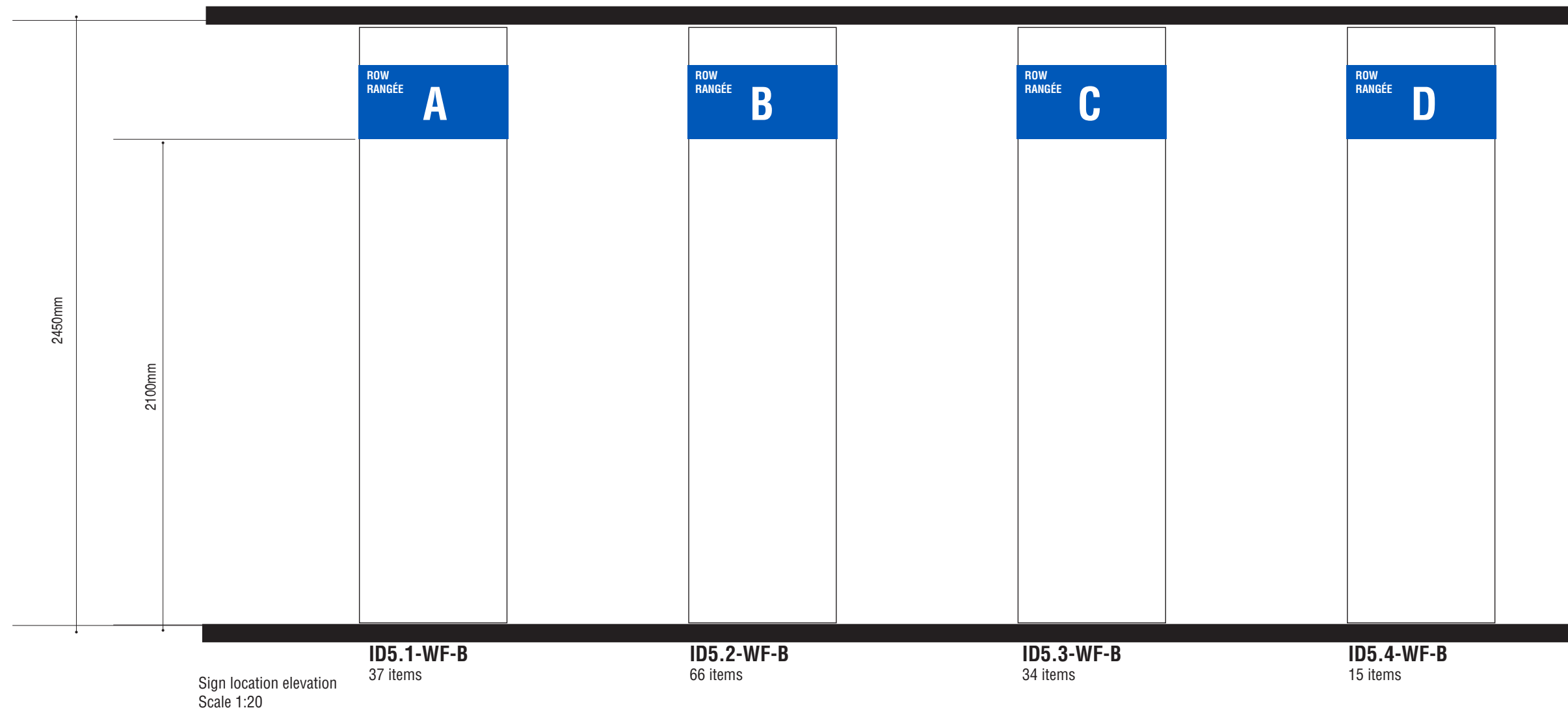


Parking row column colour sign (ID5.1-WF-B)

700x300mm
Scale 1:5
Wall-mounted Acrylic Digital Printed Film
Background Colour: DARK BLUE(refer to page 3)



Parking row column wrap
Scale 1:20

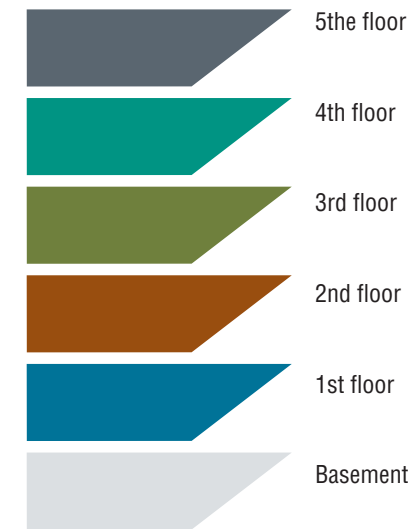
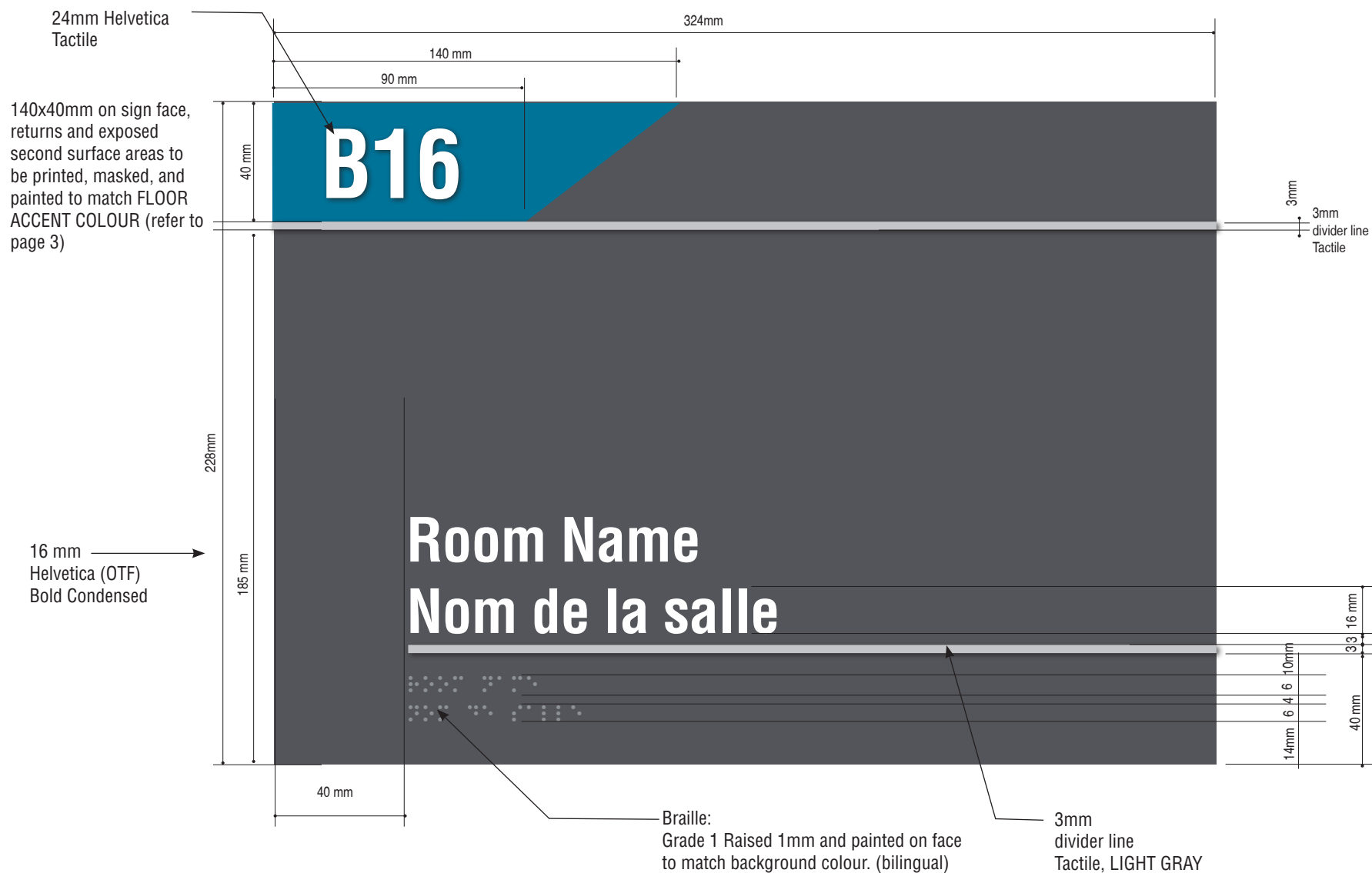


RS SERIES - ROOM ID SIGNS

Colour coding on floor plan

■ RS SERIES - ROOM ID SIGN - ROOM ID AND No. (RS1.1)

RS1.1 Typical sign, Wall mounted.



Room Sign Accent colour per floor

to match FLOOR ACCENT COLOUR (refer to page 3)

Room No. & ID Sign (RS1.1-W-Room #)

324mm x 228mm x 3mm.

Scale 1:2

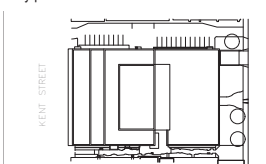
Non-glare acrylic. Tape mounted to wall 150 ± 10mm from door trim to door opening side and 1500 ± 25mm to floor from sign center

All graphics: Tactile & Braille, incl. rule.

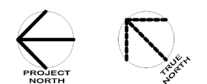
Background colour: to match COOL GRAY

Colour Accent Shape: to match FLOOR ACCENT COLOUR (refer to page 3)

key plan



project and true North



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**DANIEL J
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Charlottetown, P.E.I.

drawing
**RS SERIES -
ROOM SIGNS**

scale
As noted

project number.
ONBL17-0127

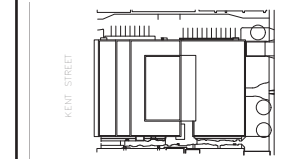
drawing no.
53

LOCATIONS

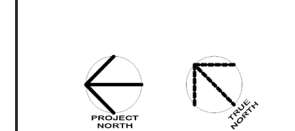
sign code	room name - English	room name - French
RS1.1-W-B16	Bike Storage	Rangement de vélos
RS1.1-W-118	Video Production	Production vidéo
RS1.1-W-149	GCSI Room	Local ISGC
RS1.1-W-157	BGIS Office	Salle de formation
RS1.1-W-166	ITIM & Admin - IT Operations	GITI et admin - opérations de TI
RS1.1-W-193 x2	Learning Centre	Centre d'apprentissage
RS1.1-W-194	Training Room	Salle de formation
RS1.1-W-198	Finger Print Photo ID	Empreintes digitales et identifications par photos
RS1.1-W-345	ITIM & Admin Application Management Innovation Lab	GITI & admin – laboratoire d'innovation pour la gestion

sign code	room name - English	room name - French
RS1.1-W-402c	GCSI Room	Local ISGC
RS1.1-W-402b	GCSI Room	Local ISGC
RS1.1-W-402d	GCSI Suite	Pièce ISGC
RS1.1-W-504	Minister Office	Cabinet du ministre
RS1.1-W-504b	Chief Enclosed Room	Pièce protégée du chef
RS1.1-W-504c	GCSI Room	Local ISGC
RS1.1-W-524	GCSI Room	Local ISGC
RS1.1-W-523	GCSI Room	Local ISGC
RS1.1-W-525a	Deputy Minister's Office	Bureau du sous-ministre

key plan



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**DANIEL J
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Charlottetown, P.E.I.

drawing
**RS SERIES -
ROOM SIGNS**

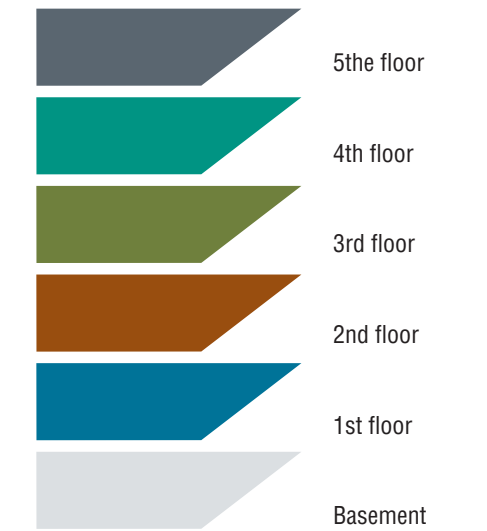
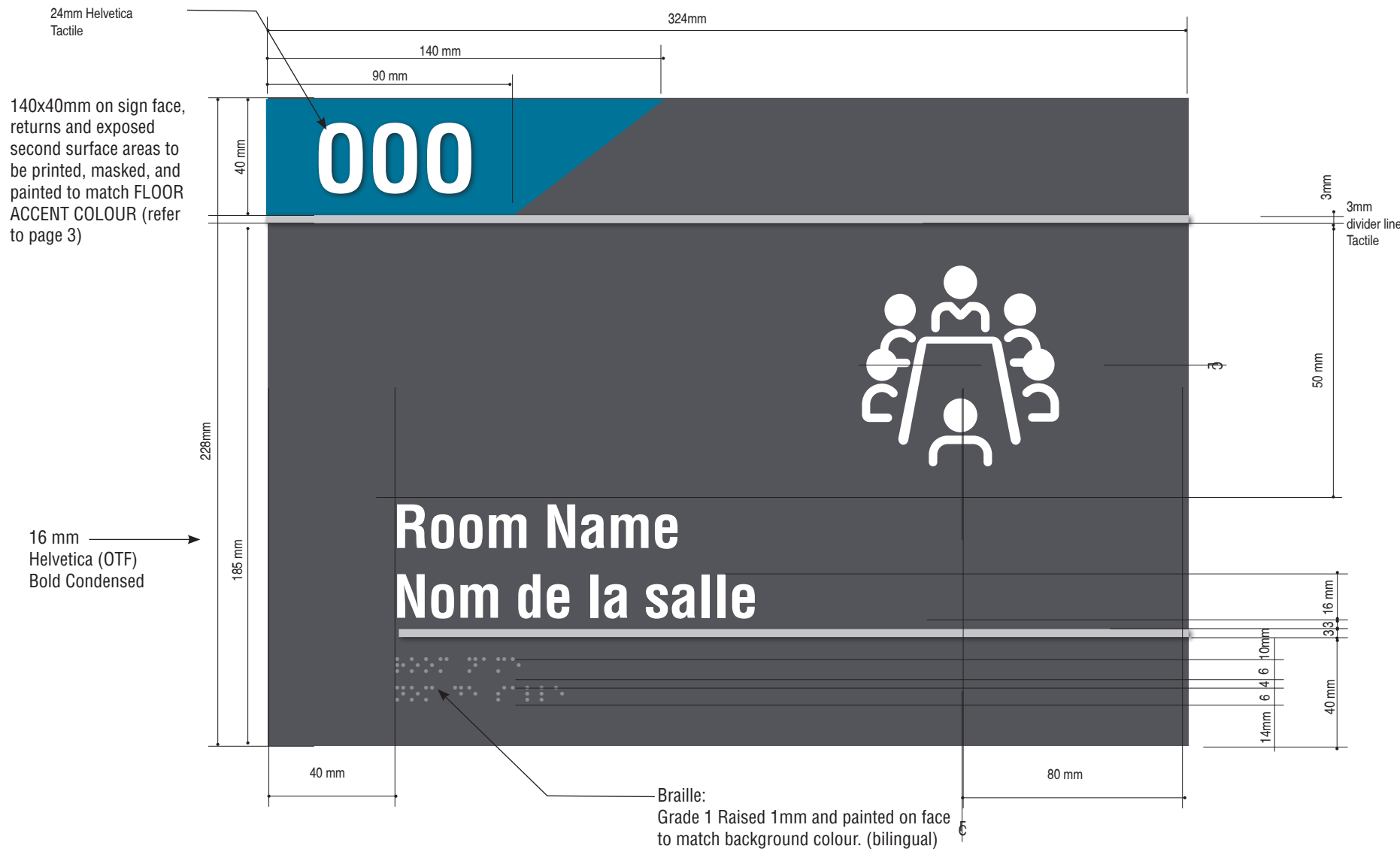
scale
As noted

project number.
ONBL17-0127

drawing no.
54

■ RS SERIES - ROOM ID SIGN - ROOM ID AND No. WITH PICTOGRAM (RS1.2)

RS1.2 Typical sign, Wall mounted.



Room Sign Accent colour per floor

Room No. & ID Sign (RS1.2)

324mm x 228mm x 3mm.

Scale 1:2

Non-glare acrylic. Tape mounted to wall 150 ± 10mm from door trim to door opening side and 1500 ± 25mm to floor from sign center

All graphics: Tactile & Braille, incl. rule.

Background colour: to match COOL GRAY
Colour Accent Shape: to match FLOOR ACCENT COLOUR
(refer to page 3)

■ RS SERIES - ROOM ID SIGN - ROOM ID AND No. WITH PICTOGRAM (RS1.2)

Wall or Glass mounted



RS1.2.1-G-Room #
Meeting Room - Medium



RS1.2.2-G-Room #
Meeting Room - Large



RS1.2.3-G-Room #
Focus Room



RS1.2.4-G-Room #
Work Room



RS1.2.5-G-Room #
Phone Booth



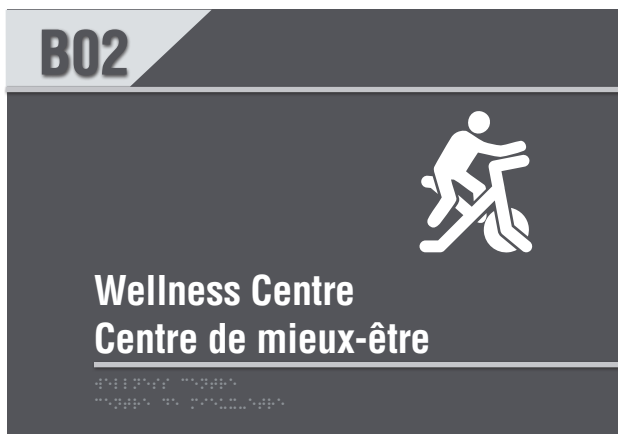
RS1.2.5a-G-Room #
Phone Booth Barrier Free



RS1.2.6-G-Room #
Reflection Room



RS1.2.7-G-Room #
Project Room



RS1.2.8-W-B02
Wellness Centre



RS1.2.9-W-355
Lactation Room

Room No. & ID Sign (RS1.2-W)

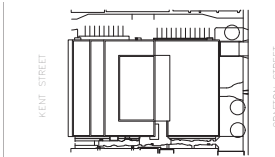
324mm x 228mm x 3mm.

Scale 1:2

Non-glare acrylic. Tape mounted to glass/wall 150 ± 10mm from door trim to door opening side and 1500 ± 25mm to floor from sign center

All graphics: Tactile & Braille, incl. rule.

key plan



project and true North



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**DANIEL J
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Charlottetown, P.E.I.

drawing
**RS SERIES -
ROOM SIGNS**

scale
As noted

project number.
ONBL17-0127

drawing no.
55

■ RS SERIES - ROOM ID SIGN - ROOM ID AND No. WITH PICTOGRAM (RS1.2)

Wall mounted

LOCATIONS

RS1.2.1-G-146
RS1.2.1-G-208
RS1.2.1-G-209
RS1.2.1-G-242
RS1.2.1-G-282
RS1.2.1-G-286 x2
RS1.2.1-G-308
RS1.2.1-G-309
RS1.2.1-G-347
RS1.2.1-G-365
RS1.2.1-G-408
RS1.2.1-G-409
RS1.2.1-G-510
RS1.2.1-G-512

LOCATIONS

RS1.2.2-G-129
RS1.2.2-G-254 x2
RS1.2.2-G-255 x2
RS1.2.2-G-214 x2
RS1.2.2-G-344
RS1.2.2-G-436
RS1.2.2-G-540

LOCATIONS

RS1.2.3-G-136
RS1.2.3-G-142
RS1.2.3-G-150b
RS1.2.3-G-150a
RS1.2.3-G-150
RS1.2.3-G-148
RS1.2.3-G-123a
RS1.2.3-G-123b
RS1.2.3-G-123c
RS1.2.3-G-119
RS1.2.3-G-121
RS1.2.3-G-191
RS1.2.3-G-191a
RS1.2.3-G-192
RS1.2.3-G-152
RS1.2.3-G-152a
RS1.2.3-G-152b
RS1.2.3-G-152c
RS1.2.3-G-152d
RS1.2.3-G-252
RS1.2.3-G-257
RS1.2.3-G-263
RS1.2.3-G-263b

RS1.2.3-G-252
RS1.2.3-G-278
RS1.2.3-G-285
RS1.2.3-G-276
RS1.2.3-G-276a
RS1.2.3-G-287
RS1.2.3-G-287b
RS1.2.3-G-287d
RS1.2.3-G-287c
RS1.2.3-G-222
RS1.2.3-G-222a
RS1.2.3-G-224
RS1.2.3-G-221
RS1.2.3-G-225
RS1.2.3-G-220
RS1.2.3-G-226
RS1.2.3-G-219
RS1.2.3-G-247
RS1.2.3-G-216a
RS1.2.3-G-216b
RS1.2.3-G-368
RS1.2.3-G-367
RS1.2.3-G-376

RS1.2.3-G-348
RS1.2.3-G-371
RS1.2.3-G-349
RS1.2.3-G-350
RS1.2.3-G-352
RS1.2.3-G-353a
RS1.2.3-G-341
RS1.2.3-G-336
RS1.2.3-G-302
RS1.2.3-G-320
RS1.2.3-G-337
RS1.2.3-G-317
RS1.2.3-G-315
RS1.2.3-G-322
RS1.2.3-G-418
RS1.2.3-G-432
RS1.2.3-G-431
RS1.2.3-G-416
RS1.2.3-G-507
RS1.2.3-G-506
RS1.2.3-G-520
RS1.2.3-G-525
RS1.2.3-G-516

LOCATIONS

RS1.2.4-G-101
RS1.2.4-G-140
RS1.2.4-G-190
RS1.2.4-G-189
RS1.2.4-G-210
RS1.2.4-G-211
RS1.2.4-G-212a
RS1.2.4-G-256
RS1.2.4-G-271
RS1.2.4-G-310
RS1.2.4-G-314
RS1.2.4-G-410
RS1.2.4-G-414
RS1.2.4-G-504d
RS1.2.4-G-517
RS1.2.4-G-518
RS1.2.4-G-519

LOCATIONS

RS1.2.5-G-230
RS1.2.5-G-238
RS1.2.5-G-258
RS1.2.5-G-358
RS1.2.5-G-521a

LOCATIONS

RS1.2.5a-G-197
RS1.2.5a-G-139
RS1.2.5a-G-251
RS1.2.5a-G-265
RS1.2.5a-G-279
RS1.2.5a-G-274
RS1.2.5a-G-230a
RS1.2.5a-G-245
RS1.2.5a-G-283
RS1.2.5a-G-374
RS1.2.5a-G-321
RS1.2.5a-G-342
RS1.2.5a-G-333
RS1.2.5a-G-322b
RS1.2.5a-G-419
RS1.2.5a-G-433
RS1.2.5a-G-438
RS1.2.5a-G-417
RS1.2.5a-G-508
RS1.2.5a-G-538

LOCATIONS

RS1.2.6-G-123
RS1.2.6-G-218
RS1.2.6-G-227
RS1.2.6-G-230b
RS1.2.6-G-250
RS1.2.6-G-332
RS1.2.6-G-375
RS1.2.6-G-415
RS1.2.6-G-439
RS1.2.6-G-440
RS1.2.6-G-521
RS1.2.6-G-537
RS1.2.6-G-539

LOCATIONS

RS1.2.7-G-241
RS1.2.7-G-273
RS1.2.7-G-331
RS1.2.7-G-330
RS1.2.7-G-366
RS1.2.7-G-372
RS1.2.7-G-380

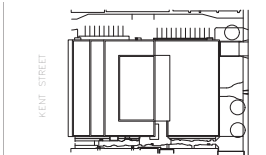
LOCATIONS

RS1.2.8-W-B02

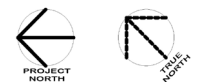
LOCATIONS

RS1.2.9-W-355

key plan



project and true North



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MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**RS SERIES -
ROOM SIGNS**

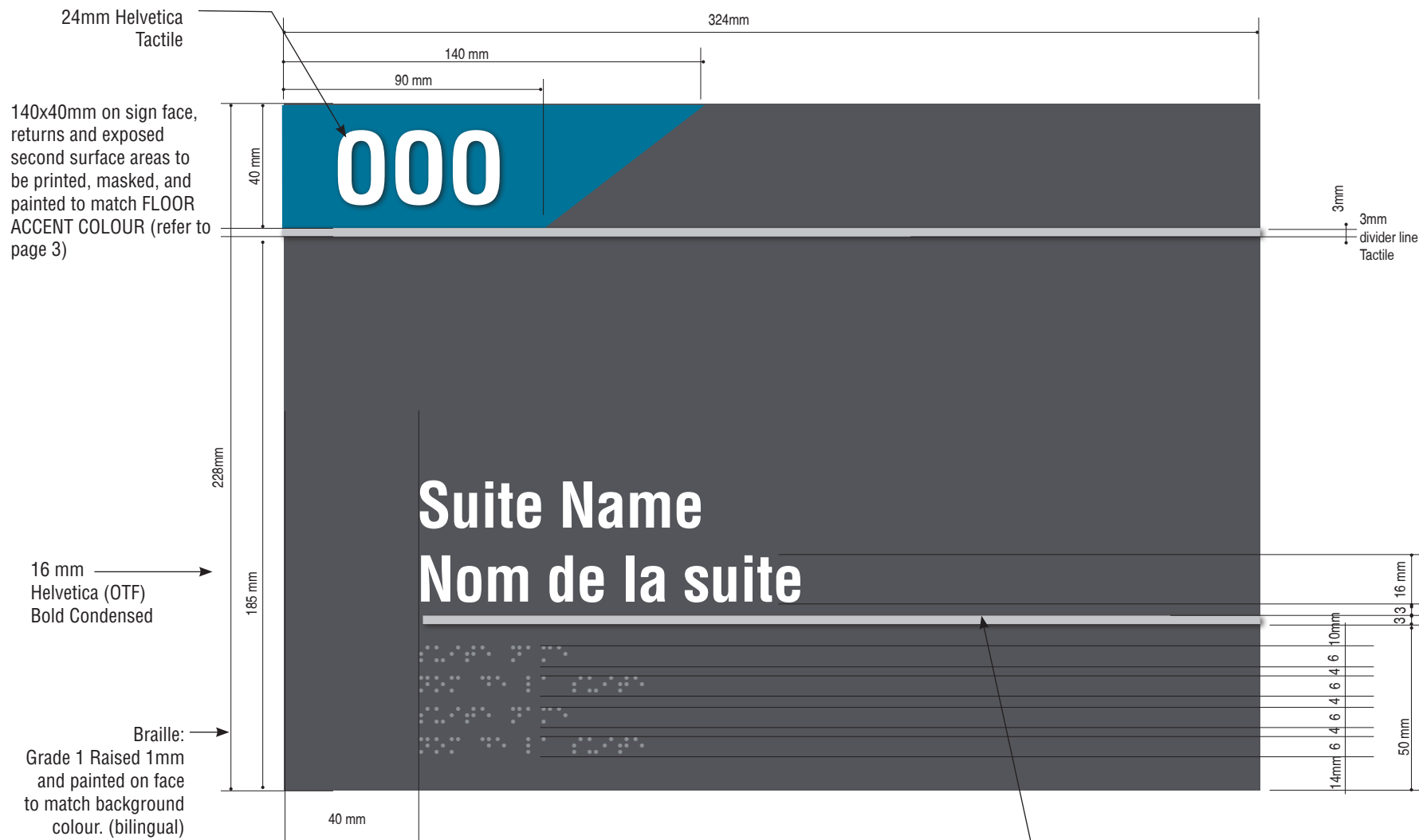
scale
As noted

project number.
ONBL17-0127

drawing no.
56

■ RS SERIES - ROOM ID SIGN - SUITE No. (RS1.3)

RS1.3 Typical sign, Wall mounted at the department entry



Typical Suite ID & No. Sign (RS1.3-W)

324mm x 180mm x 3mm.

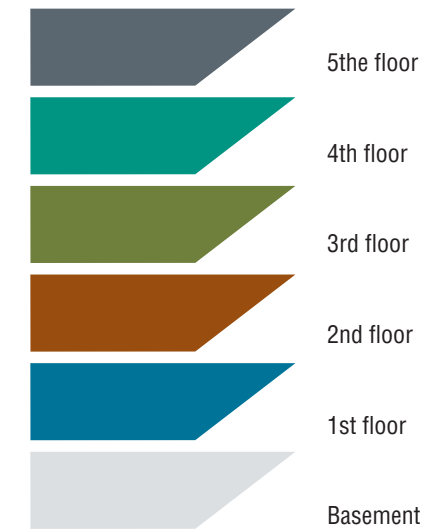
Scale 1:2

Non-glare acrylic. Tape mounted to wall 150 ± 10mm from door trim to door opening side and 1500 ± 25mm to floor from sign center

All graphics: Tactile & Braille, incl. rule.

Background colour: to match COOL GRAY

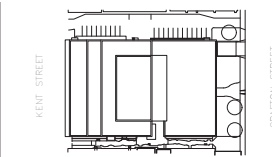
Colour Accent Shape: to match FLOOR ACCENT COLOUR (refer to page 3)



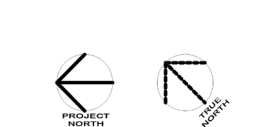
Room Sign Accent colour per floor

to match FLOOR ACCENT COLOUR (refer to page 3)

key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23

project
**DANIEL J
MACDONALD
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Charlottetown, P.E.I.

drawing
**RS SERIES -
ROOM SIGNS**

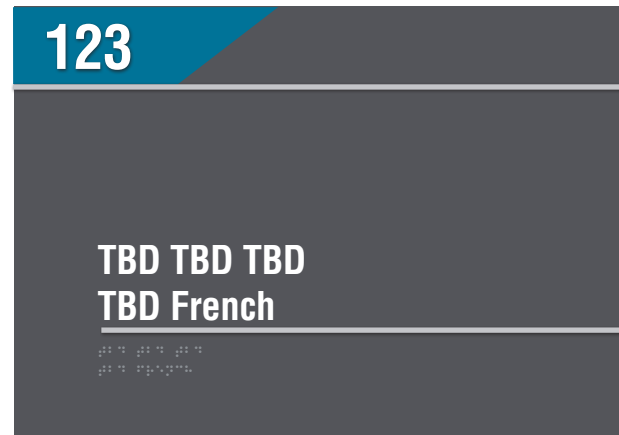
scale
As noted

project number.
ONBL17-0127

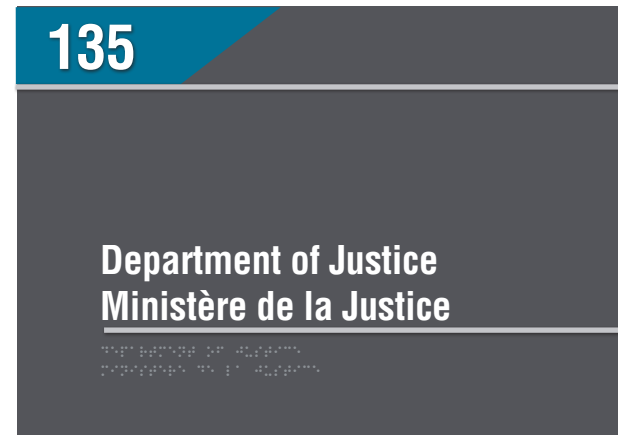
drawing no.
57

■ RS SERIES - ROOM ID SIGN - SUITE No. (RS1.3)

Wall mounted at the department entry



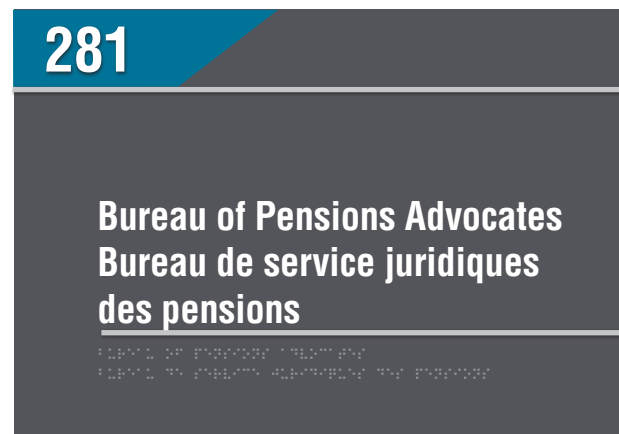
RS1.3-W-123



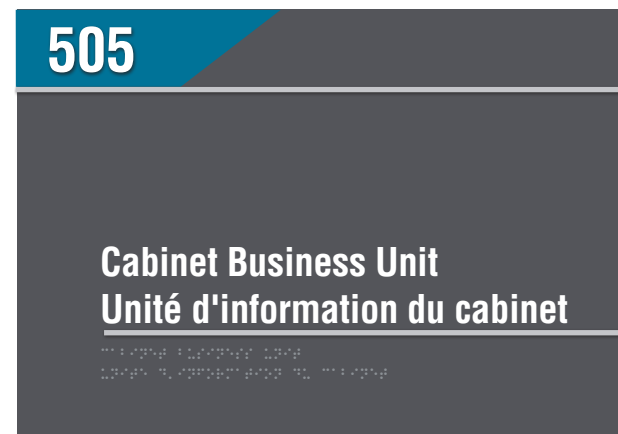
RS1.3-W-135



RS1.3-W-199



RS1.3-W-281



RS1.3-W-505

Room No. & ID Sign (RS1.3-W)

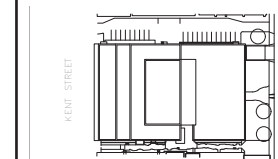
324mm x 180mm x 3mm.

Scale 1:4

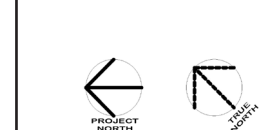
Non-glare acrylic. Tape mounted to wall 150 ± 10mm from door trim to door opening side and 1500 ± 25mm to floor from sign center

All graphics: Tactile & Braille, incl. rule.

key plan



project and true North



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**RS SERIES -
ROOM SIGNS**

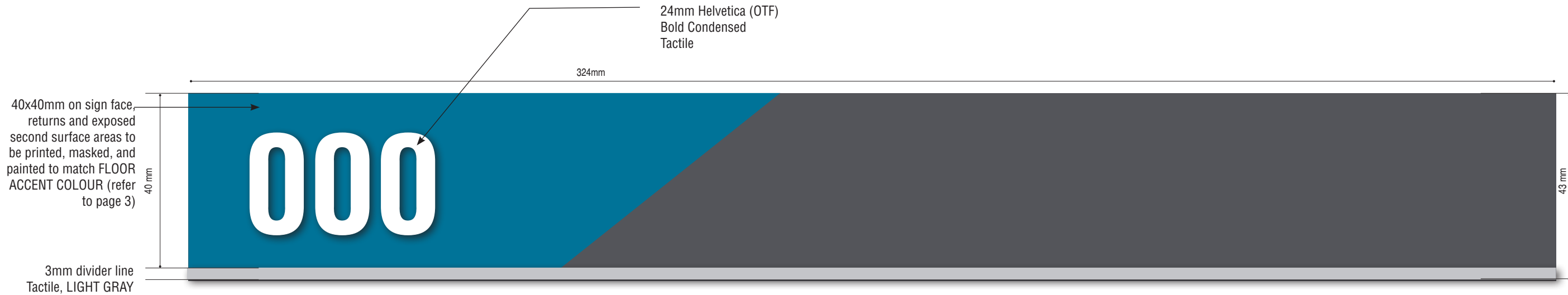
scale
As noted

project number.
ONBL17-0127

drawing no.
58

■ RS SERIES - ROOM ID SIGN - SUITE No. (RS1.4)

RS1.4 Typical sign, Wall mounted



Room No. & ID Sign (RS1.4-W)

324mm x 43mm x 3mm.

Scale 1:1

Non-glare acrylic. Tape mounted to wall 150 ± 10mm from door trim to door opening side and 1500 ± 25mm to floor from sign center
Room number is Tactile

Background colour: to match COOL GRAY
Colour Accent Shape: to match FLOOR ACCENT COLOUR
(refer to page 3)



RS1.4-W-B03



RS1.4-W-B10



RS1.4-W-B14



RS1.4-W-B17



RS1.4-W-B22

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North Tower, 15th Floor
Toronto, ON, Canada M4W 3R8
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key plan

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revisions.	description	date

project
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Charlottetown, P.E.I.

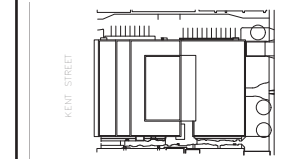
drawing
RS SERIES - ROOM SIGNS

scale
As noted

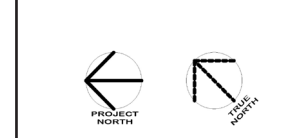
project number.
ONBL17-0127

drawing no.
59

key plan



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
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project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

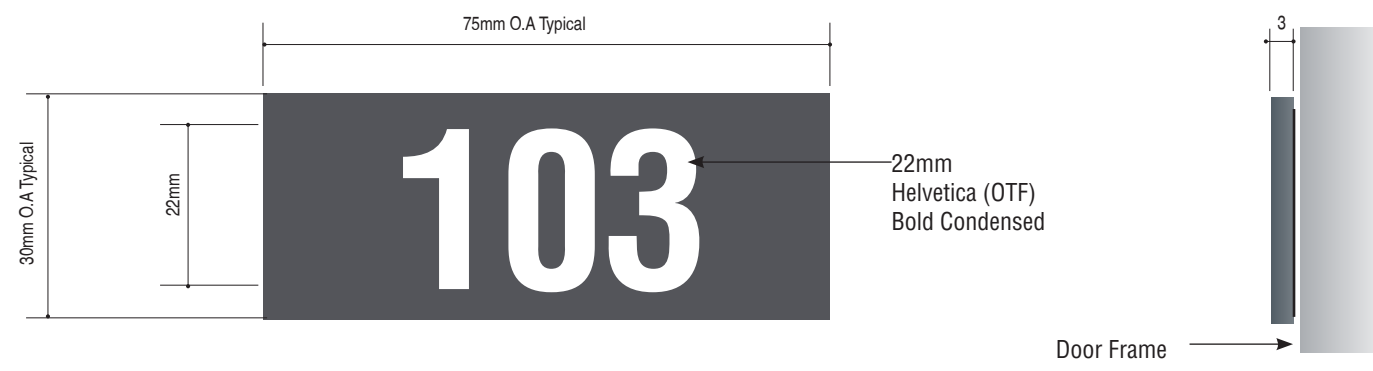
drawing
RS SERIES - ROOM SIGNS

scale
As noted

project number.
ONBL17-0127

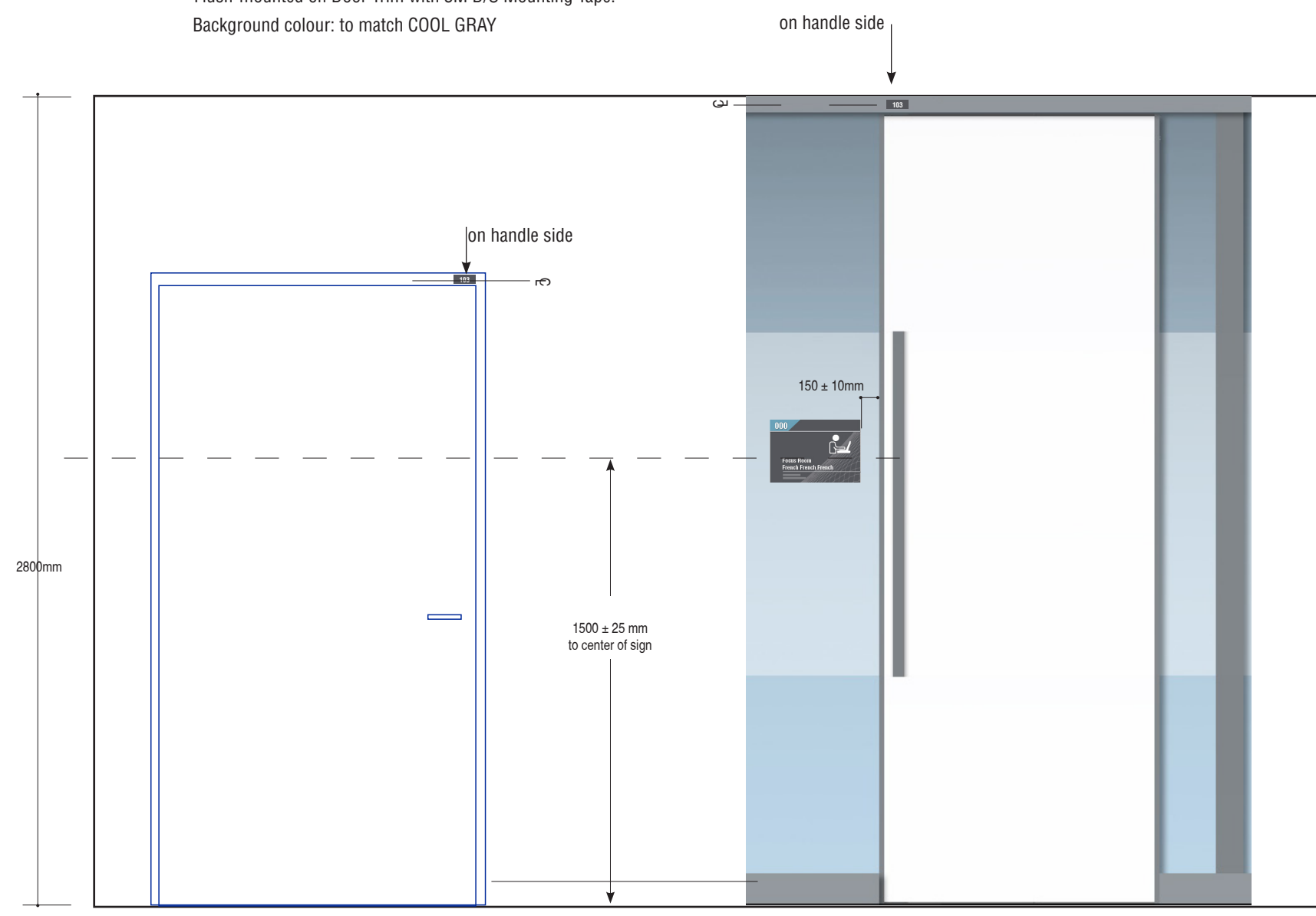
drawing no.
60

■ RS SERIES - ROOM ID SIGN - ROWMARK ROOM NUMBER (RS2)
Door Trim-mounted



NOTE:
Rowmark sign to be on all interior doors.
Vendor to submit room sign schedule listing all individual rooms by sign number, sign type and colour for approval prior to production.

RS2 Typical sign, Rowmark Room Number (RS2-W-Room #)
75mm x 30mm x 3mm.
Scale 1:1
Rowmark Ultra-Mattes Front Engravable
Gray Background/Engraved Reversed White Letters
Flush-mounted on Door Trim with 3M D/S Mounting Tape.
Background colour: to match COOL GRAY



RS2 -Door Trim-mounted Room Number Sign
Front Elevation
Scale 1:20

WS SERIES- WORKSTATION ID SIGNS

Colour coding on floor plan

■ WS SERIES - WORKSTATION IDENTIFICATION SIGN (WS)

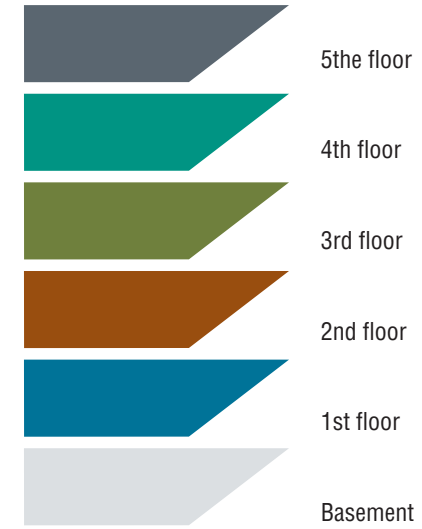
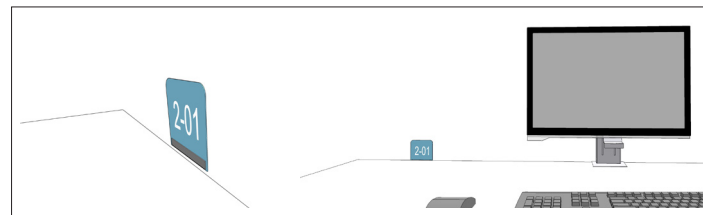
WS Typical sign, Workstation mounted



Typical Workstation Numbering Sign (WS1-WM-Workstation #) - desk mounted

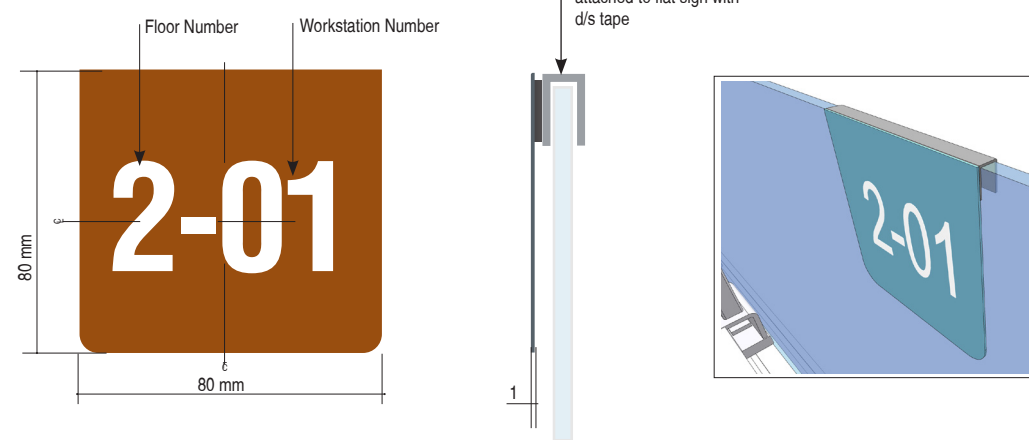
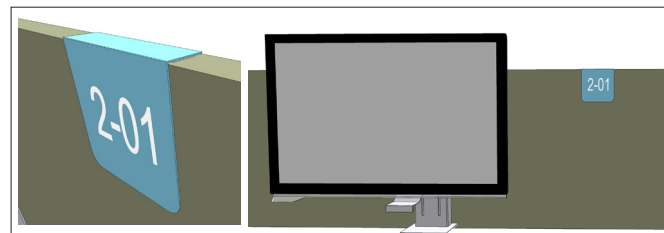
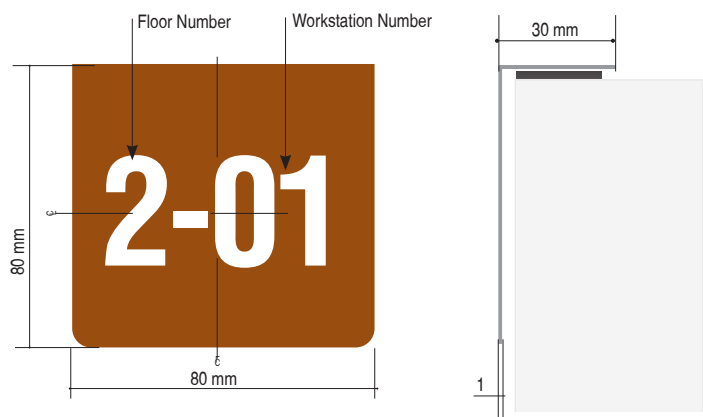
80mm x 100mm x 1mm
Scale 1:1
1mm thk. aluminum (edges smooth to the touch) w/ white cut vinyl numbers front and rear. Painted to match FLOOR ACCENT COLOUR (refer to page 3)
Clear protective laminate.
Mount with d/s tape to rear of desk.

NOTE:
Vendor to submit Workstation numbering sign schedule listing for all individual workstation numbers for approval prior to production.



Room Sign Accent colour per floor

to match FLOOR ACCENT COLOUR (refer to page 3)



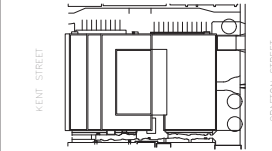
Typical Workstation Numbering Sign (WS3-WM-Workstation #) - glass mounted

80mm x 100mm x 1mm
Scale 1:2
1mm thk. aluminum (edges smooth to the touch) w/ white cut vinyl numbers front and rear. Painted to match FLOOR ACCENT COLOUR (refer to page 3)
Clear protective laminate.
Mount with d/s tape to Aluminum sign channel.

Typical Workstation Numbering Sign (WS2-WM-Workstation #) - partition mounted

80mm x 100mm x 1mm
Scale 1:2
1mm thk. aluminum (edges smooth to the touch) w/ white cut vinyl numbers front and rear. Painted to match FLOOR ACCENT COLOUR (refer to page 3)
Clear protective laminate.
Mount with d/s tape to top of thick fabric partition (D/s tape if solid top, velcro if fabric)

key plan



project and true North



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revisions.	description	date

project
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Charlottetown, P.E.I.

drawing
WS SERIES- WORKSTATION SIGN

scale
As noted

project number.
ONBL17-0127

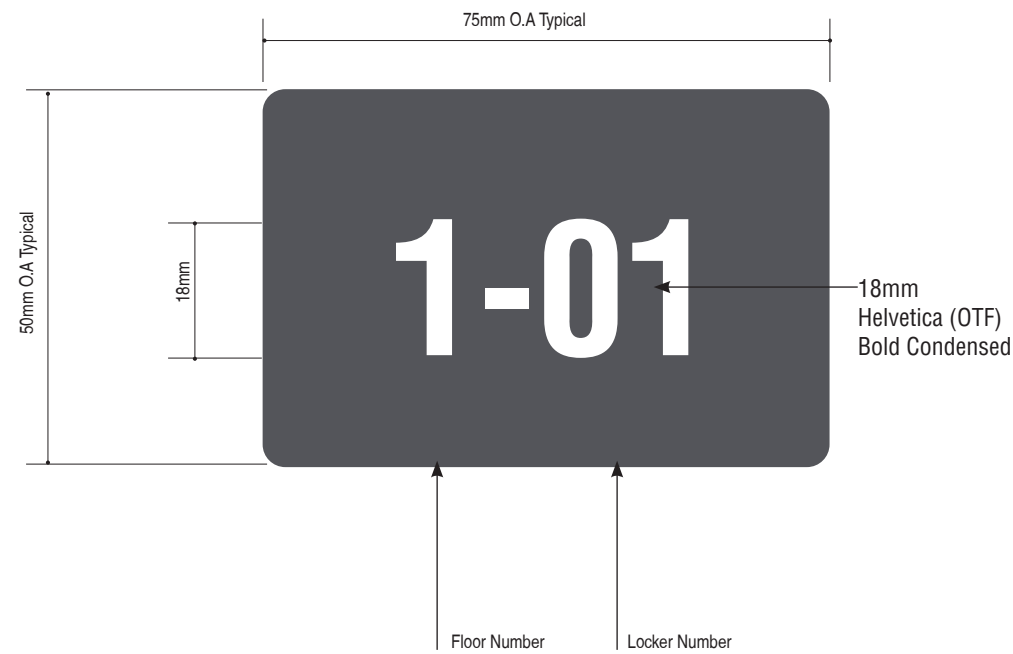
drawing no.
62

LS - LOCKER ID SIGNS

Colour coding on floor plan

■ LS SERIES - LOCKER IDENTIFICATION SIGN (LS)

LS Typical sign, Locker Door mounted



Typical Locker Number (LS1)

75mm x 50mm x 1mm.
 Scale 1:1
 1mm thick non-glare acrylic.
 Tape mounted to locker door
 All graphics: Tactile
 Mount with D/S Tape
 Background colour: to match COOL GRAY with
 WHITE Numbers.
 (refer to page 3)

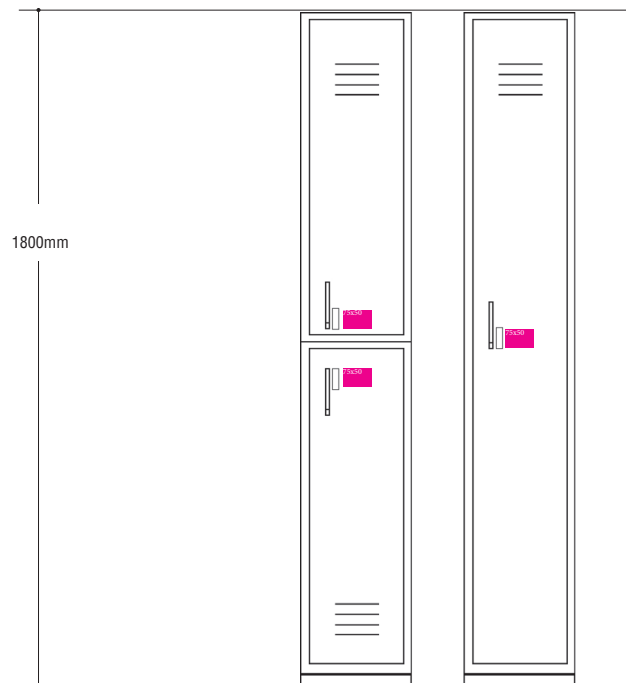


Braille:
 Grade 1 Raised 1mm and painted on face
 to match background colour. (bilingual)

Typical Locker Number (LS2)

75mm x 50mm x 1mm.
 Scale 1:1
 1mm thick non-glare acrylic.
 Tape mounted to locker door
 All graphics: Tactile & Braille
 Mount with D/S Tape
 Background colour: to match COOL GRAY
 with WHITE Numbers.
 (refer to page 3)

NOTE:
 Locker sign to be on all lockers.
 Vendor to submit locker sign schedule
 listing all individual locker numbers
 for approval prior to production.



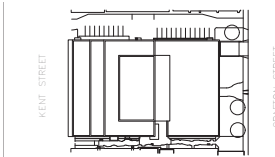
Locker Number (LS)

Front Elevation

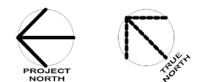
Scale 1:20

Location of signs TBD

key plan



project and true North



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**DANIEL J
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**LS SERIES-
 LOCKER
 IDENTIFICATION
 SIGN**

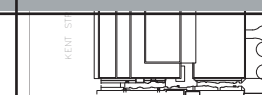
scale
 As noted

project number.
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drawing no.
64

W SERIES - WARNING AND SAFETY SIGNS

Colour coding on floor plan



project and true North



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revisions.	description	date

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**DANIEL J
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Charlottetown, P.E.I.

drawing
**W SERIES-
WARNING AND
SAFETY SIGN**

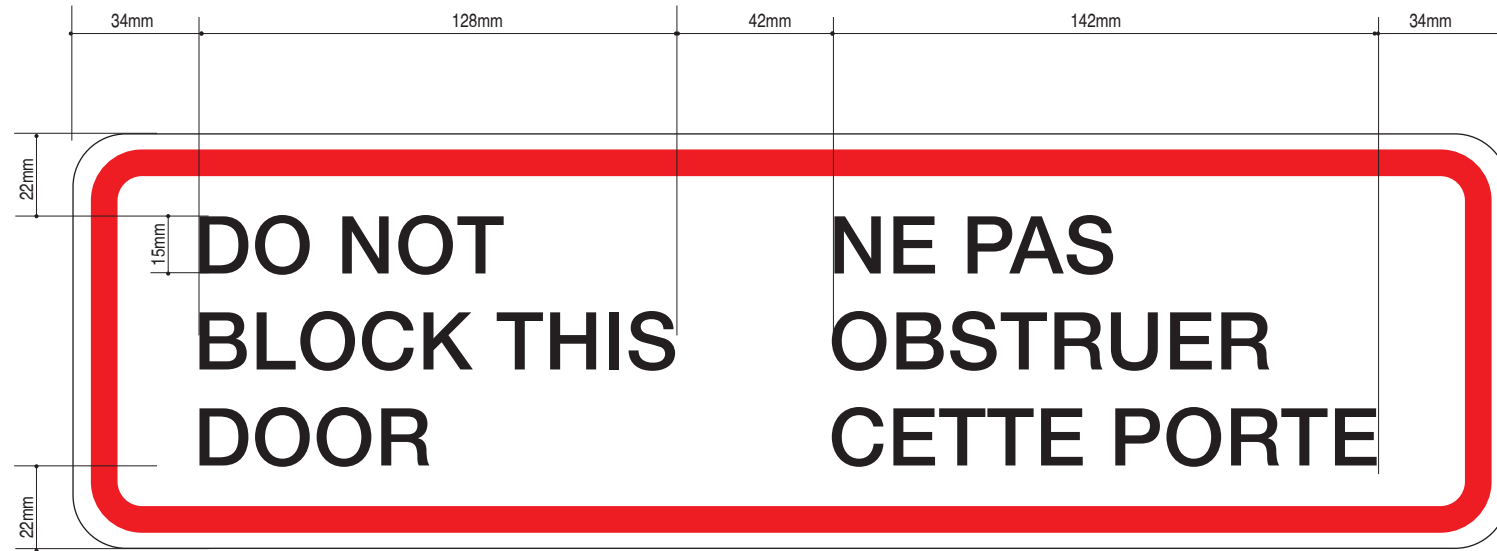
scale
As noted

project number.
ONBL17-0127

drawing no.
65

■ W SERIES - WARNING AND SAFETY SIGN

Wall mounted



W1-W-162

Warning Sign - Do Not Block.

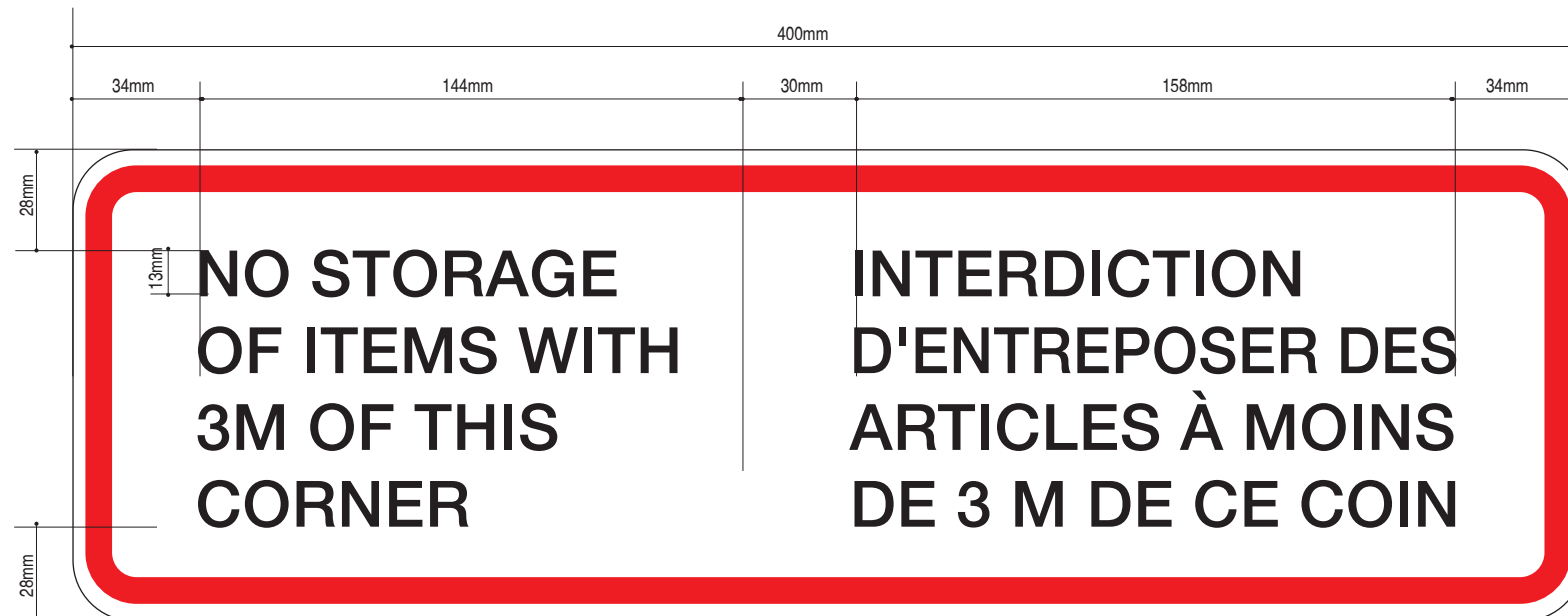
380mm x 110mm x 3mm

Scale 1:2

3mm ACM with direct surface printed graphics.

Clear protective laminate.

Tape mounted to wall at 150 ± 10mm to door opening side and 1500 ± 25mm to floor from sign center



W2-W-StairC

Warning Sign - No Storage Sign.

400mm x 125mm x 3mm

Scale 1:2

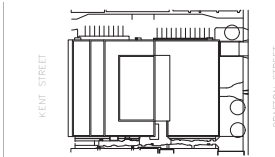
3mm ACM with direct surface printed graphics.

Clear protective laminate.

Wall mounted.

Location: at exterior door Stair C

key plan



project and true North



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Charlottetown, P.E.I.

drawing
**W SERIES-
WARNING AND
SAFETY SIGN**

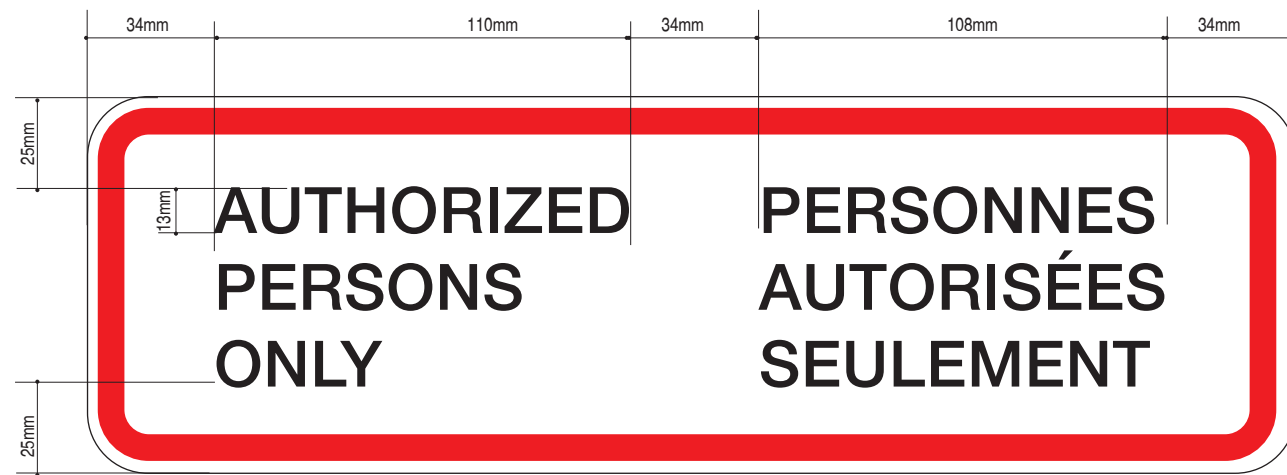
scale
As noted

project number.
ONBL17-0127

drawing no.
66

■ W SERIES - WARNING AND SAFETY SIGN

Door mounted



W3-W-Room #

Warning Sign - Authorized Persons Only

320mm x 100mm x 3mm

Scale 1:2

3mm ACM with direct surface printed graphics.

Clear protective laminate.

Mounted centered on door 1500 ± 25mm to floor from sign center.

LOCATIONS

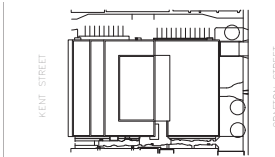
- | | |
|---------------|------------|
| W1.4-W-B09 | W1.4-W-204 |
| W1.4-W-B10 | W1.4-W-206 |
| W1.4-W-B13 | W1.4-W-231 |
| W1.4-W-B20 X2 | W1.4-W-236 |
| W1.4-W-B21a | W1.4-W-260 |
| W1.4-W-B24 | W1.4-W-267 |
| W1.4-W-B25 | W1.4-W-268 |
| W1.4-W-B27 | W1.4-W-304 |
| W1.4-W-B28 | W1.4-W-306 |
| W1.4-W-101 | W1.4-W-323 |
| W1.4-W-102 | W1.4-W-326 |
| W1.4-W-104 | W1.4-W-328 |
| W1.4-W-108 | W1.4-W-361 |
| W1.4-W-113 | W1.4-W-404 |
| W1.4-W-158 | W1.4-W-406 |
| W1.4-W-159 | W1.4-W-423 |
| W1.4-W-160 | W1.4-W-428 |
| W1.4-W-161 | W1.4-W-502 |
| W1.4-W-166 | W1.4-W-503 |
| W1.4-W-173 | W1.4-W-511 |
| W1.4-W-178 | W1.4-W-532 |
| W1.4-W-179 | W1.4-W-535 |

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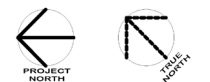
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**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**W SERIES-
WARNING AND
SAFETY SIGN**

scale
As noted

project number.
ONBL17-0127

drawing no.
67

■ W SERIES - WARNING AND SAFETY SIGN

Wall mounted



W4.1-W-B

Warning Sign - Pedestrian Crossing Ahead-Grafton st.

1500mm x 450mm x 3mm

Scale 1:10

3mm ACM with direct surface printed graphics.

Clear protective laminate.

Mounted centered on Garage door(Existing Ramp to Grafton Street) 1500 ± 25mm to floor from sign center.

Sign height need to be confirmed before production.



W4.2-W-B

Warning Sign - Pedestrian Crossing Ahead-Kent st.

2800mm x 900mm x 3mm

Scale 1:10

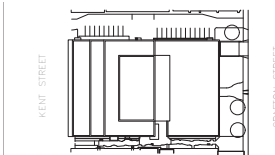
3mm ACM with direct surface printed graphics.

Clear protective laminate.

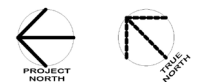
Mounted centered on Garage door(Existing Ramp to Kent Street) 1500 ± 25mm to floor from sign center.

Sign height need to be confirmed before production.

key plan



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revisions.	description	date

project
**DANIEL J
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drawing
**W SERIES-
WARNING AND
SAFETY SIGN**

scale
As noted

project number.
ONBL17-0127

drawing no.
68

■ W SERIES - WARNING AND SAFETY SIGN

Wall mounted



W5-W-162

Warning Sign - Access Area

300mm x 300mm x 3mm

Scale 1:2

3mm ACM with direct surface printed graphics.

Clear protective laminate.

Mounted centered on door 1500 ± 25mm to floor from sign center at all Loading Dock entrance doors (3 signs).



W7-W-Room #

Safety Sign - Please Wash Your Hands

360mm x 170mm x 3mm

Scale 1:2

3mm ACM with direct surface printed graphics.

Clear protective laminate.

Mounted near the sink in all washrooms.

Background colour: to match DARK LLUE (refer to page 3)

LOCATIONS

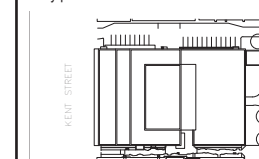
- | | |
|------------|------------|
| W1.7-W-110 | W1.7-W-325 |
| W1.7-W-112 | W1.7-W-327 |
| W1.7-W-114 | W1.7-W-329 |
| W1.7-W-183 | W1.7-W-356 |
| W1.7-W-184 | W1.7-W-357 |
| W1.7-W-185 | W1.7-W-425 |
| W1.7-W-233 | W1.7-W-457 |
| W1.7-W-235 | W1.7-W-429 |
| W1.7-W-237 | W1.7-W-531 |
| W1.7-W-261 | W1.7-W-534 |
| W1.7-W-262 | W1.7-W-536 |

NORR

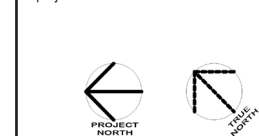
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key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23

project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
W SERIES-WARNING AND SAFETY SIGN

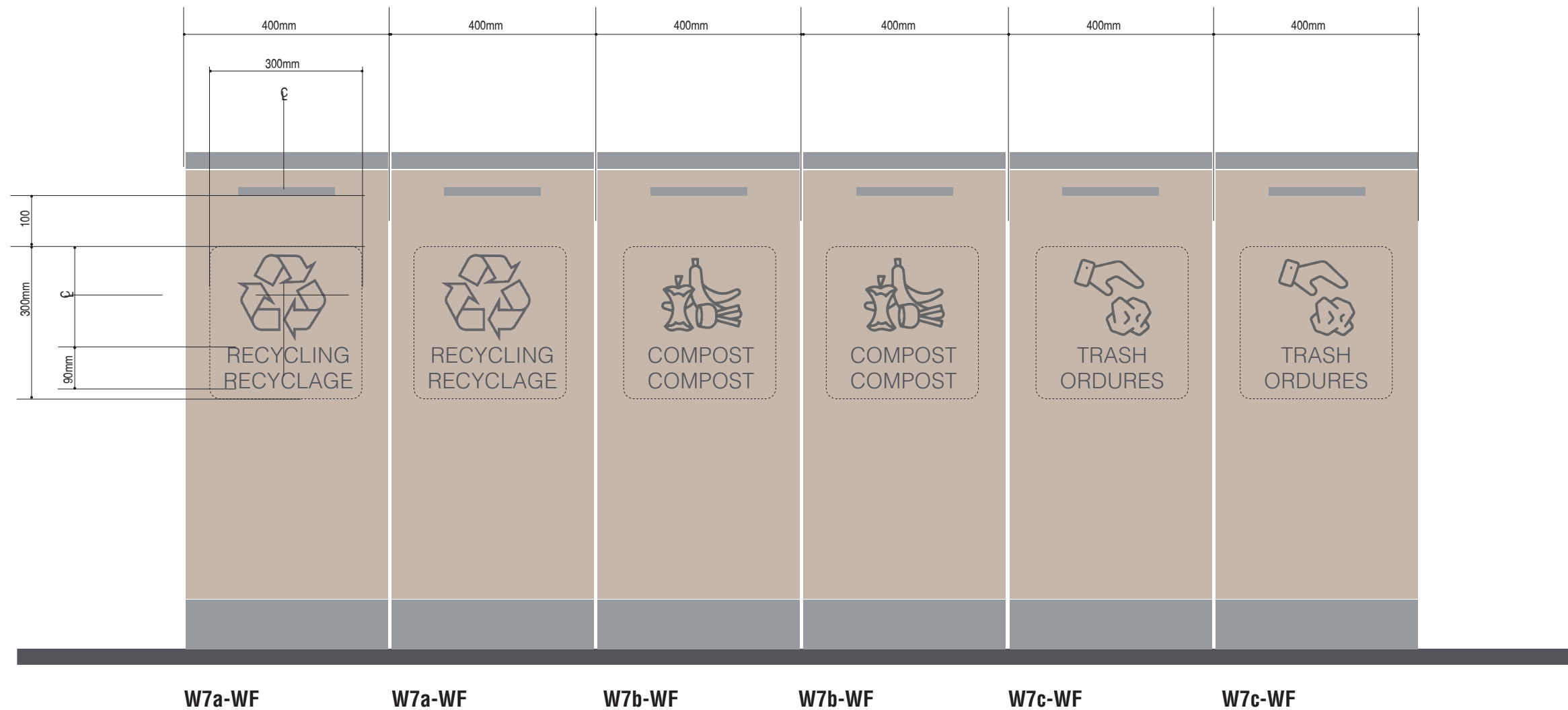
scale
As noted

project number.
ONBL17-0127

drawing no.
69

■ W SERIES - WARNING AND SAFETY SIGN

Wall mounted

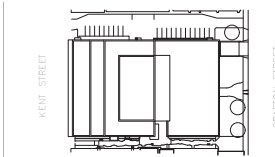


W7-WF-Room #
Safety Sign - Recycling station bins
 300mm x 300mm x 1mm
 Scale 1:2
 Door-mounted clear overlay film.

LOCATIONS

- W7-W-120
- W7-W-188
- W7-W-207
- W7-W-270
- W7-W-307
- W7-W-377
- W7-W-407
- W7-W-509

key plan



project and true North



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project
**DANIEL J
 MACDONALD**
MODERNIZATION
 Charlottetown, P.E.I.

drawing
**W SERIES-
 WARNING AND
 SAFETY SIGN**

scale
 As noted

project number.
 ONBL17-0127

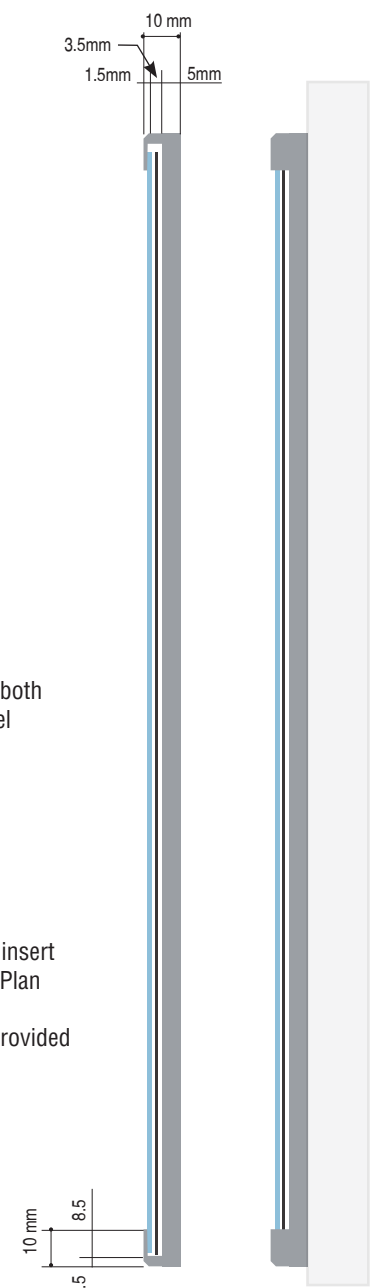
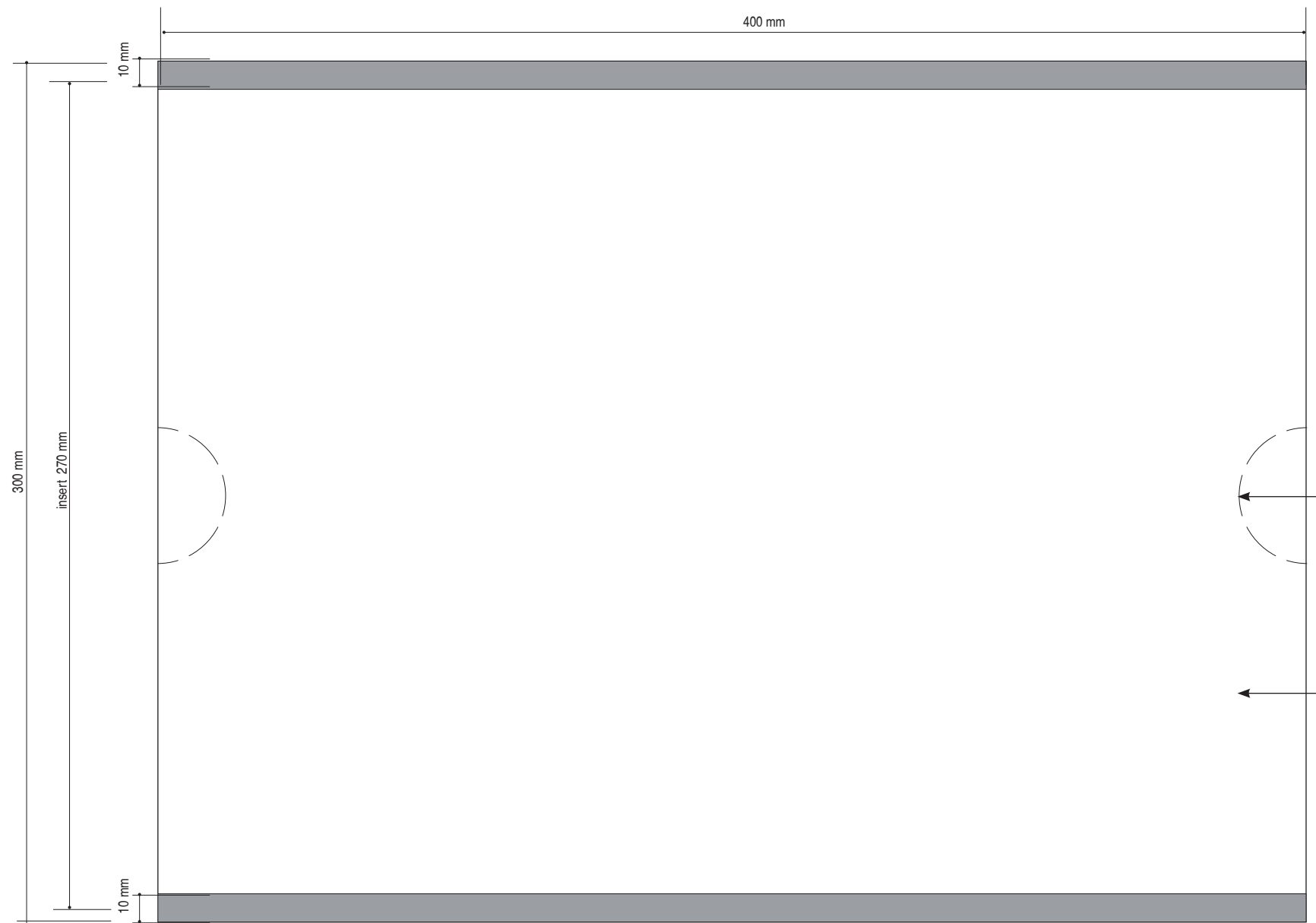
drawing no.
 70

M SERIES - EMERGENCY AND NOTIFICATION SIGNS

Colour coding on floor plan

■ M SERIES - EMERGENCY AND NOTIFICATION SIGNS

Wall mounted



M1.1-W
Emergency Sign - Fire Procedure
Plan Insert Holder
 400mm x 300mm x 10mm.
 Scale 1:2
 Insert holder, glare free surface, with 1.5mm beveled edges on top and bottom with Full Colour Print Insert with Evacuation Plan Map. Graphic to be provided for production. Mount with D/S Tape.

Circular cuts on both sides of the panel

Full colour Print insert with Evacuation Plan and Map. Graphics to be provided for production.

<p>You at 165 Kent Street, B Floor</p> <p>IN CASE OF FIRE DO NOT USE ELEVATORS USE "STAIRWAYS"</p> <p>EXAMPLE</p> <p>CALL APPELLER: 911</p> <p>to confirm fire location at 165 Kent Street</p>	<p>You at 165 Kent Street, 1 Floor</p> <p>IN CASE OF FIRE DO NOT USE ELEVATORS USE "STAIRWAYS"</p> <p>EXAMPLE</p> <p>CALL APPELLER: 911</p> <p>to confirm fire location at 165 Kent Street</p>	<p>You at 165 Kent Street, 2 Floor</p> <p>IN CASE OF FIRE DO NOT USE ELEVATORS USE "STAIRWAYS"</p> <p>EXAMPLE</p> <p>CALL APPELLER: 911</p> <p>to confirm fire location at 165 Kent Street</p>	<p>You at 165 Kent Street, 3 Floor</p> <p>IN CASE OF FIRE DO NOT USE ELEVATORS USE "STAIRWAYS"</p> <p>EXAMPLE</p> <p>CALL APPELLER: 911</p> <p>to confirm fire location at 165 Kent Street</p>	<p>You at 165 Kent Street, 4 Floor</p> <p>IN CASE OF FIRE DO NOT USE ELEVATORS USE "STAIRWAYS"</p> <p>EXAMPLE</p> <p>CALL APPELLER: 911</p> <p>to confirm fire location at 165 Kent Street</p>	<p>You at 165 Kent Street, 5 Floor</p> <p>IN CASE OF FIRE DO NOT USE ELEVATORS USE "STAIRWAYS"</p> <p>EXAMPLE</p> <p>CALL APPELLER: 911</p> <p>to confirm fire location at 165 Kent Street</p>
--	--	--	--	--	--

M1.1-W-B north
M1.1-W-B south

M1.1-W-100 north
M1.1-W-100 south

M1.1-W-200 north
M1.1-W-200 south

M1.1-W-300 north
M1.1-W-300 south

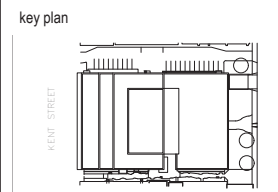
M1.1-W-400 north

M1.1-W-500 north

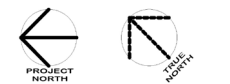
<p>You at 161 Grafton Street, B Floor</p> <p>IN CASE OF FIRE DO NOT USE ELEVATORS USE "STAIRWAYS"</p> <p>EXAMPLE</p> <p>CALL APPELLER: 911</p> <p>to confirm fire location at 165 Kent Street</p>	<p>You at 161 Grafton Street, 1 Floor</p> <p>IN CASE OF FIRE DO NOT USE ELEVATORS USE "STAIRWAYS"</p> <p>EXAMPLE</p> <p>CALL APPELLER: 911</p> <p>to confirm fire location at 165 Kent Street</p>	<p>You at 161 Grafton Street, 2 Floor</p> <p>IN CASE OF FIRE DO NOT USE ELEVATORS USE "STAIRWAYS"</p> <p>EXAMPLE</p> <p>CALL APPELLER: 911</p> <p>to confirm fire location at 165 Kent Street</p>	<p>You at 161 Grafton Street, 3 Floor</p> <p>IN CASE OF FIRE DO NOT USE ELEVATORS USE "STAIRWAYS"</p> <p>EXAMPLE</p> <p>CALL APPELLER: 911</p> <p>to confirm fire location at 165 Kent Street</p>
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M1
Insert
 400mm x 270mm x 10mm.
 Scale 1:8
 Map TBD

LOCATIONS
 Near elevator E-01 and E-04 on floors B to5



project and true North



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project
DANIEL J MACDONALD MODERNIZATION
 Charlottetown, P.E.I.

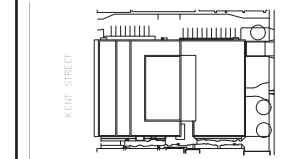
drawing
M SERIES - EMERGENCY AND NOTIFICATION SIGNS

scale
 As noted

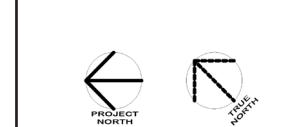
project number.
 ONBL17-0127

drawing no.
 72

key plan



project and true North



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project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
M SERIES - EMERGENCY AND NOTIFICATION SIGNS

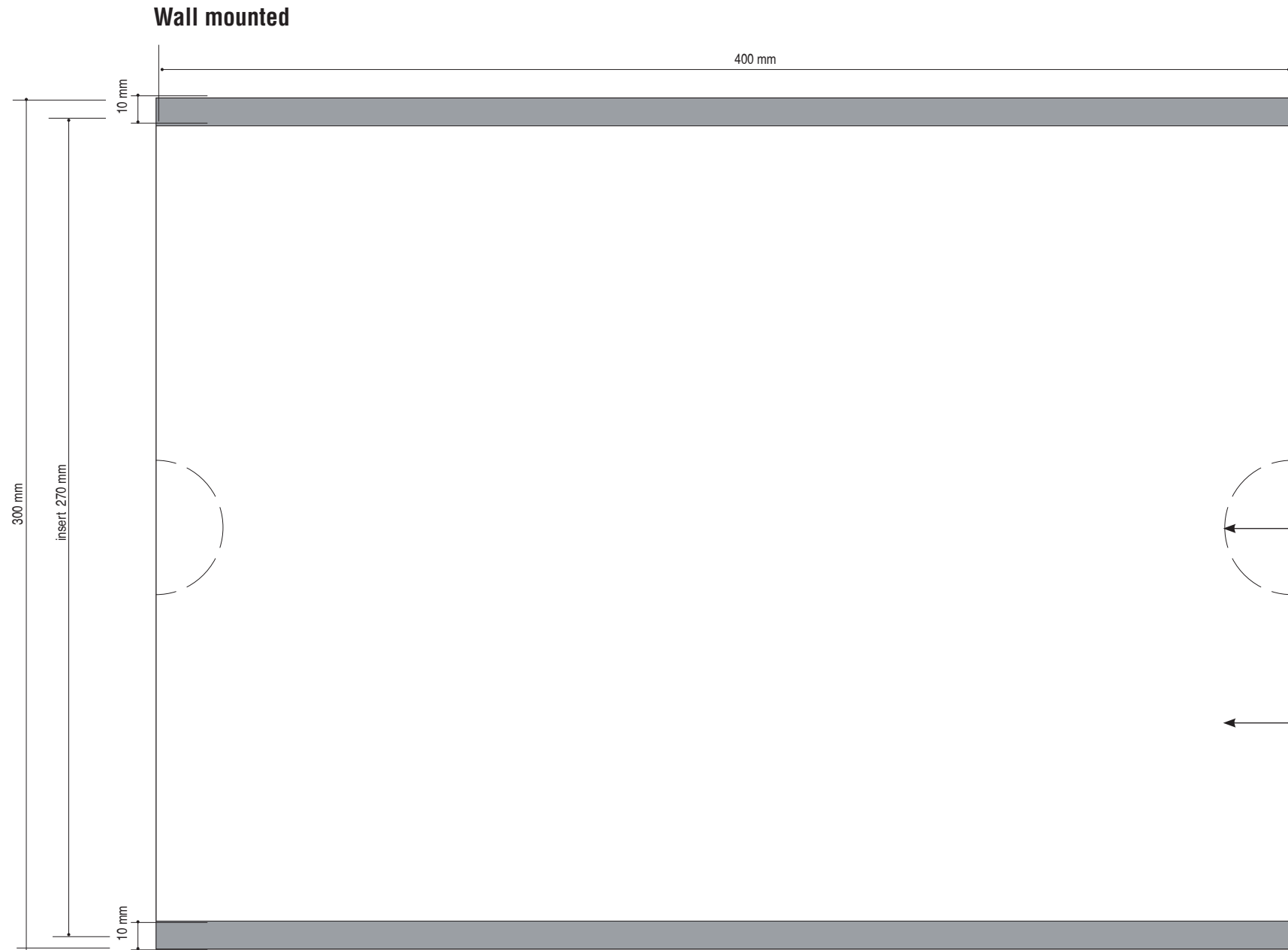
scale
As noted

project number.
ONBL17-0127

drawing no.
73

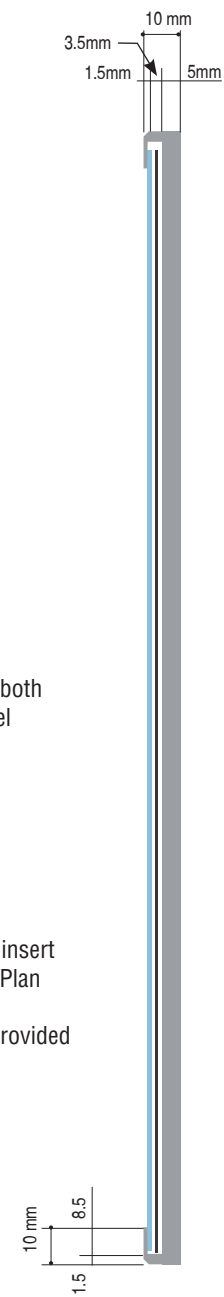
■ M SERIES - EMERGENCY AND NOTIFICATION SIGNS

Wall mounted



Circular cuts on both sides of the panel

Full colour Print insert with Evacuation Plan and Map. Graphics to be provided for production.



M1.2 Notification Sign - Notification Sign - Health Benefit Insert Holder

400mm x 300mm x 10mm.
Scale 1:2
Insert holder, glare free surface, with 1.5mm beveled edges on top and bottom with Full Colour Print Insert with replaceable promotional material.
Mount with D/S Tape.



Insert
400mm x 270mm x 10mm.
Scale 1:8
Insert graphic design TBD

LOCATIONS

- M1.2-W-BE
- M1.2-W-1E
- M1.2-W-2E
- M1.2-W-3E
- M1.2-W-4E
- M1.2-W-5E

■ M SERIES - EMERGENCY AND NOTIFICATION SIGNS

Wall mounted



M2.1-W-Room #

Notification Sign - No smoking

210mm x 350mm x 3mm

Scale 1:4

3mm ACM with direct surface printed graphics.

Clear protective laminate.

Mounted in the basement 1500 ± 25mm to floor from sign center.

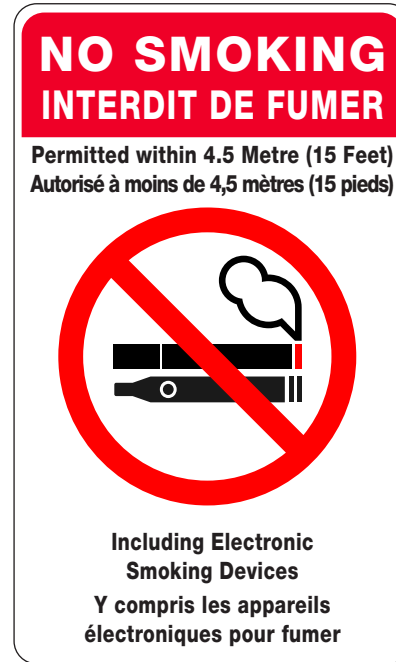
LOCATIONS

M2.1-W-B11 x 2

M2.1-W-B06

M2.1-W-B14

M2.1-W-B26



M2.2-W-Room #

Notification Sign - No smoking within 4.5 metre

210mm x 350mm x 3mm

Scale 1:4

3mm ACM with direct surface printed graphics.

Clear protective laminate.

Mounted 1500 ± 25mm to floor from sign center near each entrance, air intakes and Loading door entrance door .

LOCATIONS

M2.2-W-133

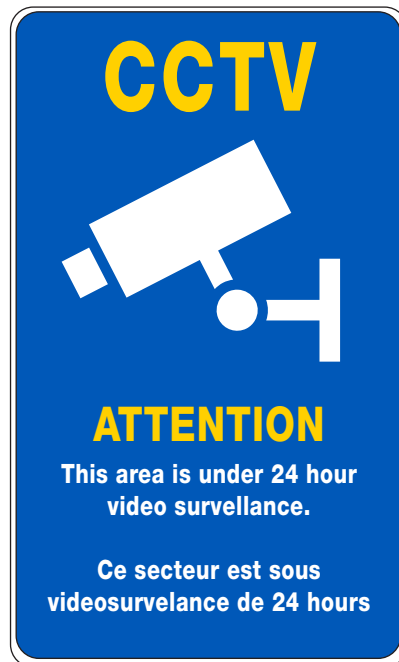
M2.2-W-157*

M2.2-W-162

M2.2-W-182

M2.2-W-196

* - sign located near room



M3-W-Room #

Notification Sign - CCTV

210mm x 350mm x 3mm

Scale 1:4

3mm ACM with direct surface printed graphics.

Clear protective laminate.

Mounted 1500 ± 25mm to floor from sign center near each entrance.

Background colour: to match DARK BLUE (refer to page 3)

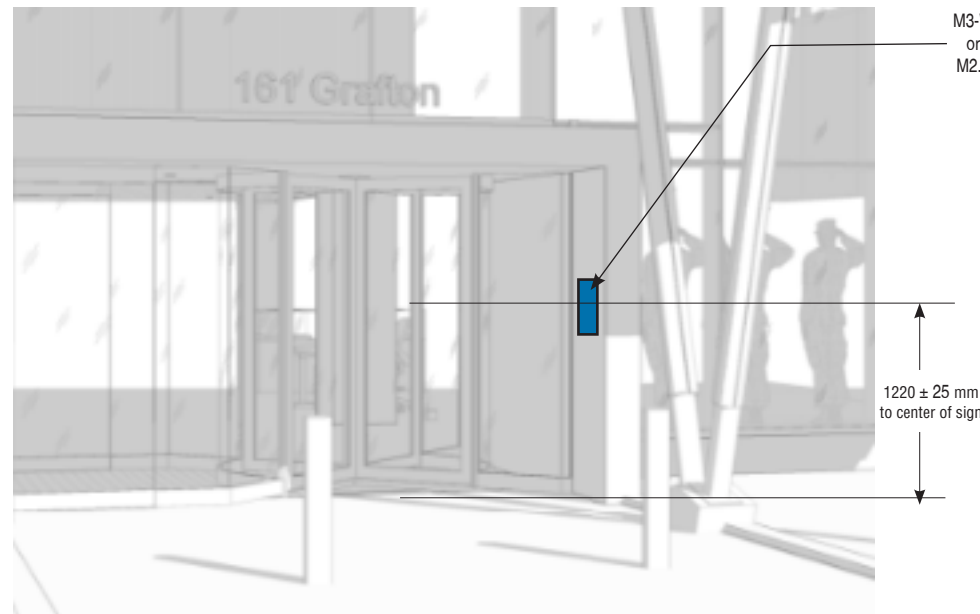
LOCATIONS

M3-W-133

M3-W-162

M3-W-182

M3-W-196



M3-W or M2.2

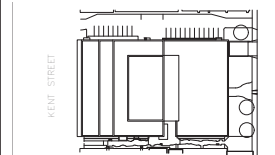
1220 ± 25 mm to center of sign

Notification Sign M2.2 and M3 - mounting guidelines

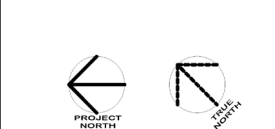
NTS

Mounted 1500 ± 25mm to floor from sign center near each entrance.

key plan



project and true North



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project

**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing

**M SERIES -
EMERGENCY AND
NOTIFICATION
SIGNS**

scale

As noted

project number.

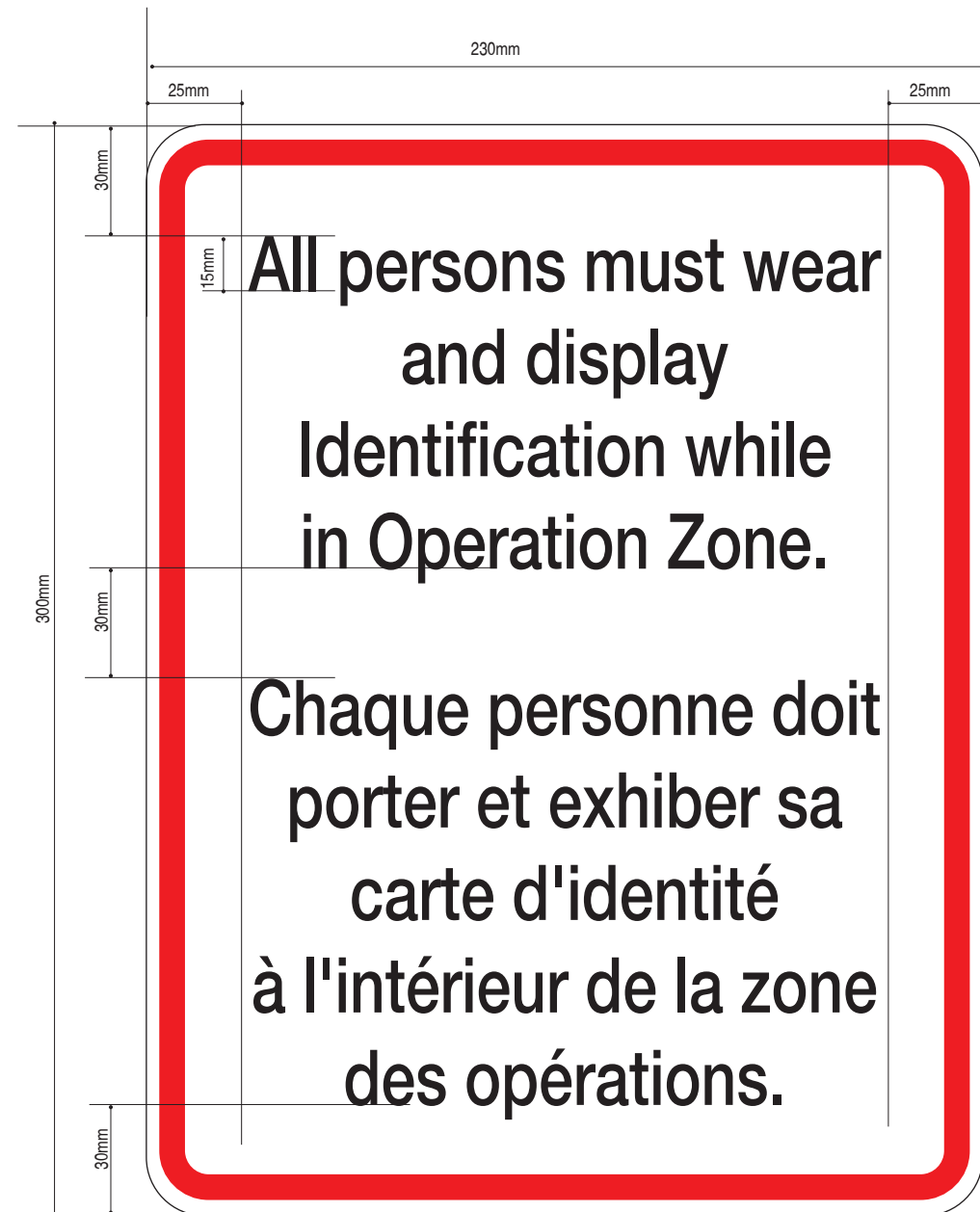
ONBL17-0127

drawing no.

74

■ M SERIES - EMERGENCY AND NOTIFICATION SIGNS

Wall mounted



M4-W-162

M4-G-Room #

Notification Sign - All persons must wear and display Identification

230mm x 300mm x 3mm

Scale 1:2

Graphic is digitally printed on to vinyl.

Mounted 1500 ± 25mm to floor from sign center. .

Sign applied directly to glass or door.

LOCATIONS

M4-G-B06

M4-G-B26

M4-G-133

M4-W-162

M4-G-182

M4-G-196



M5-G-Room #

Notification Sign - Access Area

230mm x 300mm x 3mm

Scale 1:2

Graphic is digitally printed on to vinyl.

Mounted 1500 ± 25mm to floor from sign center. .

Sign applied directly to glass.

LOCATIONS

M5-G-B06

M5-G-B26

M5-G-133

M5-G-182

M5-G-196

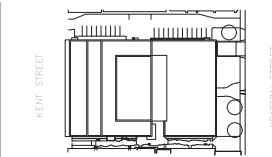
match RED (refer to page 3)

NORR

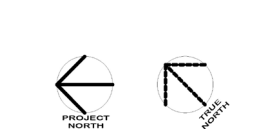
NORR Architects & Engineers Limited
An Ingenium Group Company

175 Bloor St. East
North Tower, 15th Floor
Toronto, ON, Canada M4W 3R8
norr.com

key plan



project and true North



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project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
M SERIES - EMERGENCY AND NOTIFICATION SIGNS

scale
As noted

project number.
ONBL17-0127

drawing no.
75

■ M SERIES - EMERGENCY AND NOTIFICATION SIGNS

Wall mounted



M6-W-162

Notification Sign - Notice, Deliveries, Closed combined sign.

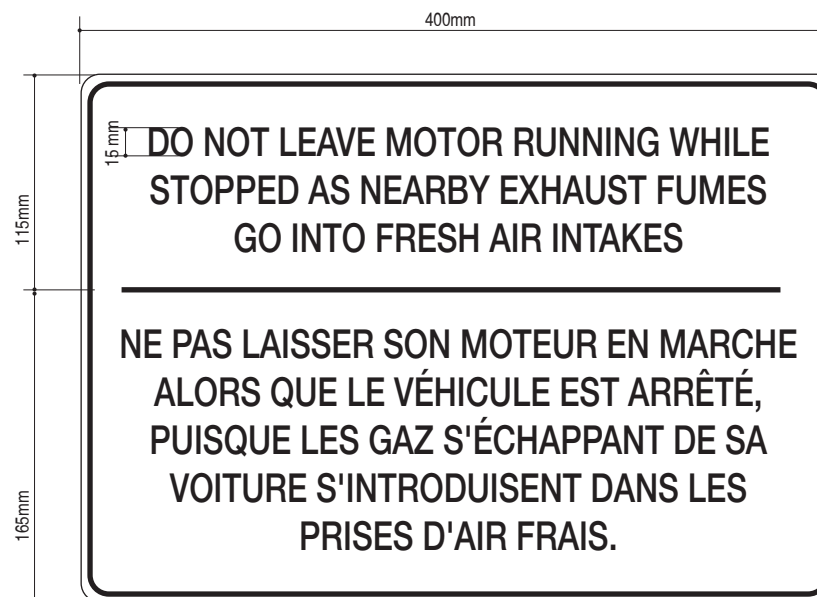
400mm x 320mm x 3mm

Scale 1:4

3mm ACM with direct surface printed graphics.

Clear protective laminate.

Door mounted (if possible mount 1500 ± 25mm to floor from sign center).



M7-W-162

Notification Sign - Do Not Leave Motor Running

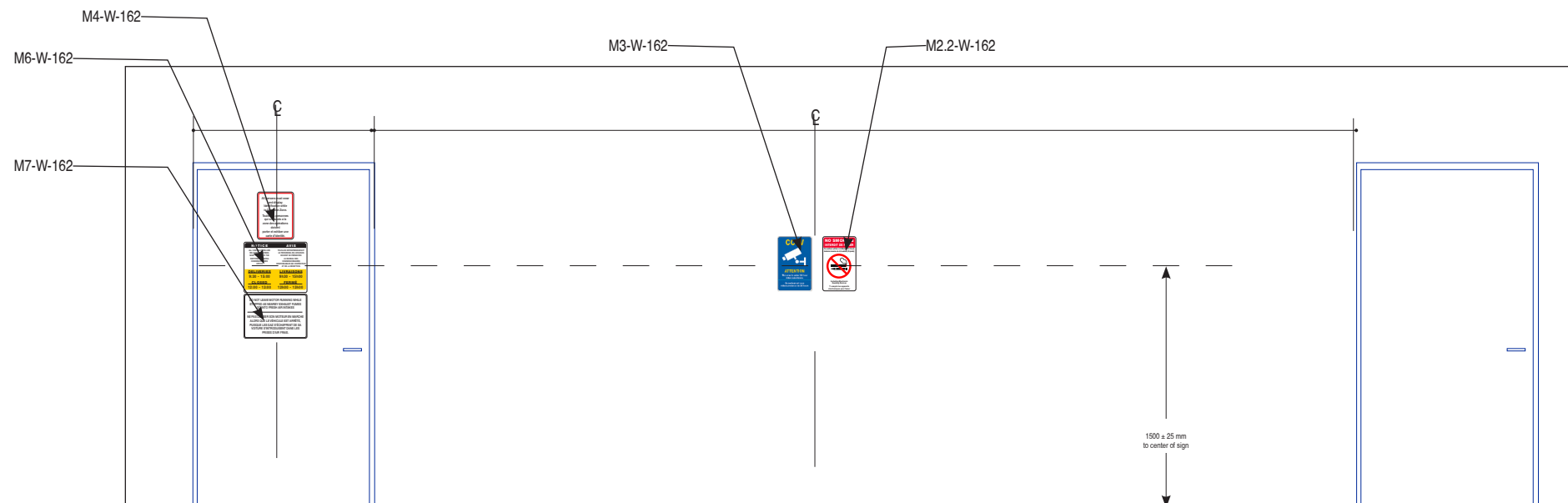
400mm x 280mm x 1mm

Scale 1:4

3mm ACM with direct surface printed graphics.

Clear protective laminate.

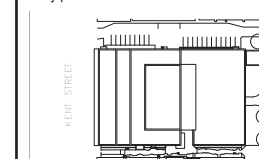
Door mounted (if possible mount 1500 ± 25mm to floor from sign center).



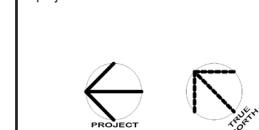
Loading dock Notification Signs mounting guideline

Scale 1:40

key plan



project and true North



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**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing

**M SERIES -
EMERGENCY AND
NOTIFICATION
SIGNS**

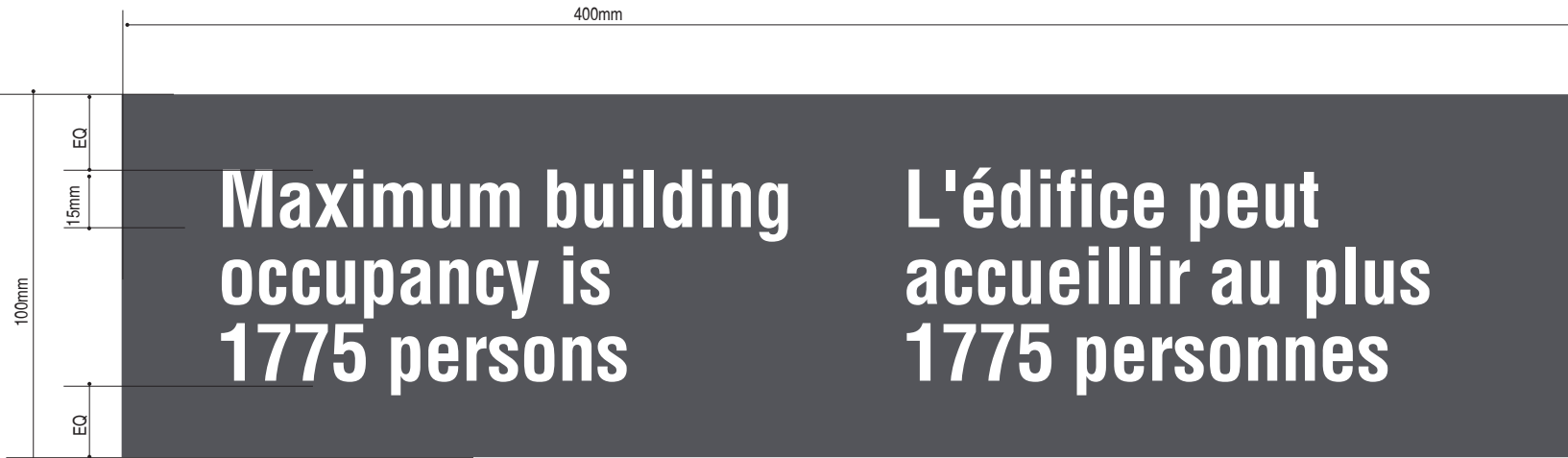
scale
As noted

project number.
ONBL17-0127

drawing no.
76

■ M SERIES - EMERGENCY AND NOTIFICATION SIGNS

Wall mounted



M8.1-W-Room #

Notification Sign - Building Maximum Occupancy Typical sign

400mm x 100mm x 3mm

Scale 1:2

3mm ACM with direct surface printed graphics. Clear protective laminate. Mounted 1500 ± 25mm to floor from sign center.

Background Colour: to match GOOL GRAY

(refer to page 3)

LOCATIONS

W8.1-W-126

W8.1-W-181

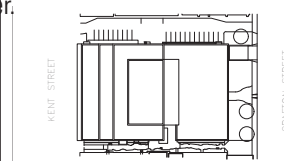
W8.1-W-196

NORR

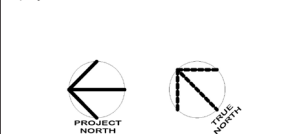
NORR Architects & Engineers Limited
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175 Bloor St. East
North Tower, 15th Floor
Toronto, ON, Canada M4W 3R8
norr.com

key plan



project and true North



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Maximum occupancy of this floor is 97 persons **Cet étage peut accueillir au plus 97 personnes**

M8.2-W-B

Maximum occupancy of this floor is 781 persons **Cet étage peut accueillir au plus 781 personnes**

M8.2-W-1

Maximum occupancy of this floor is 231 persons **Cet étage peut accueillir au plus 231 personnes**

M8.2-W-2

Maximum occupancy of this floor is 407 persons **Cet étage peut accueillir au plus 407 personnes**

M8.2-W-3

Maximum occupancy of this floor is 138 persons **Cet étage peut accueillir au plus 138 personnes**

M8.2-W-4

Maximum occupancy of this floor is 103 persons **Cet étage peut accueillir au plus 103 personnes**

M8.2-W-5

Maximum occupancy of this floor is 18 persons **Cet étage peut accueillir au plus 18 personnes**

M8.2-W-PH

M8.2-W

Notification Sign - Floor Maximum Occupancy

400mm x 100mm x 3mm

Scale 1:4

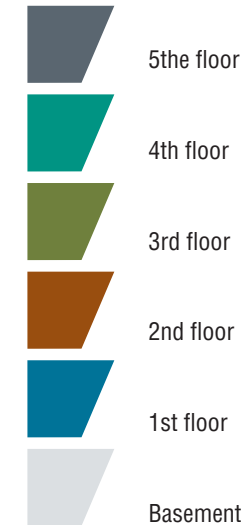
3mm ACM with direct surface printed graphics. Clear protective laminate.

Mounting location - North Elevator Lobby

Background Colour: to match FLOOR ACCENT COLOUR

Sign border: to match GOOL GRAY

(refer to page 3)



Sign Accent colour per floor

to match FLOOR ACCENT COLOUR (refer to page 3)

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DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
M SERIES - EMERGENCY AND NOTIFICATION SIGNS

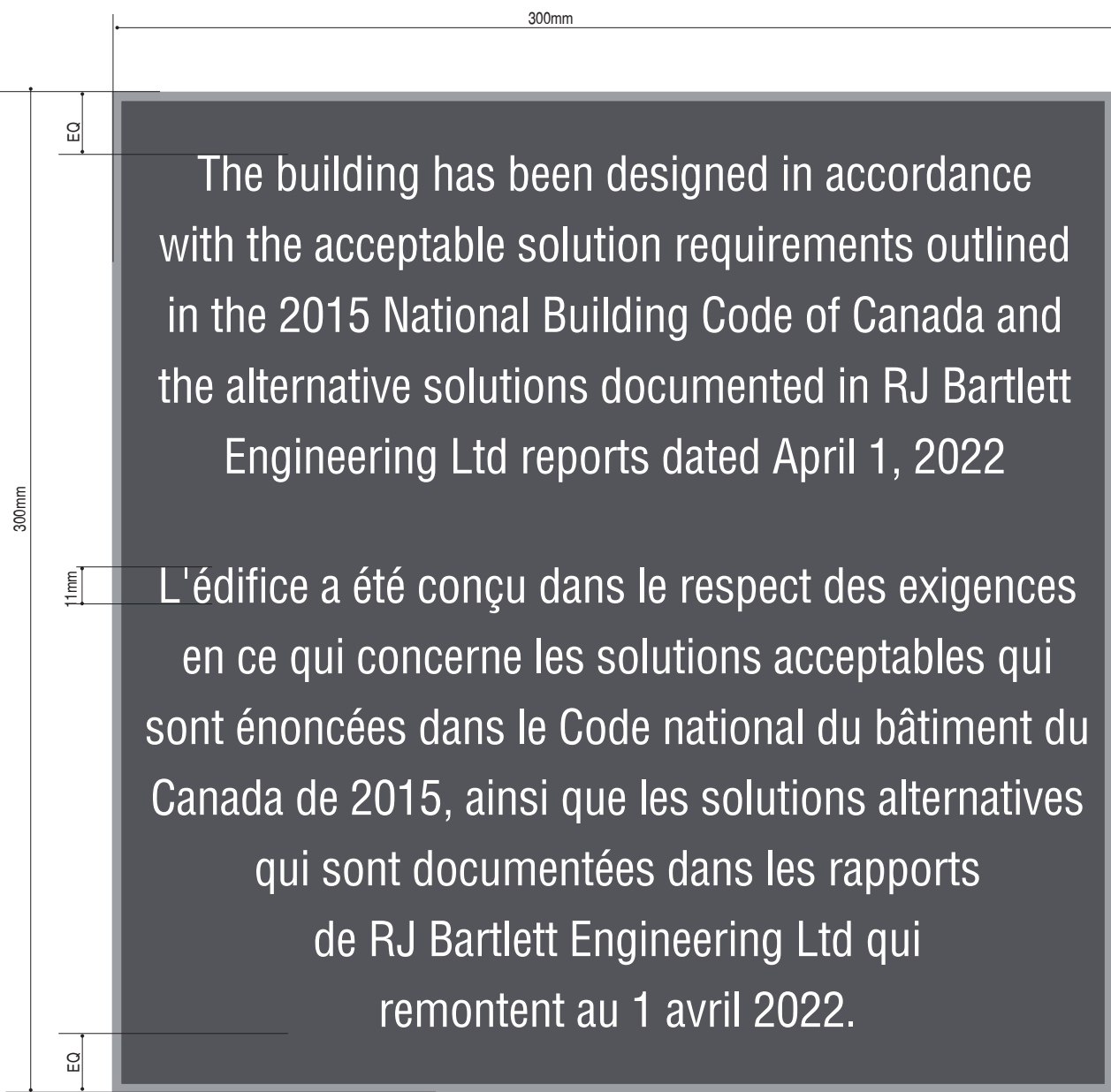
scale
As noted

project number.
ONBL17-0127

drawing no.
77

■ M SERIES - EMERGENCY AND NOTIFICATION SIGNS

Wall mounted



M9-W-TBD

Notification Sign - Building has been designed in accordance

300mm x 300mm x 3mm

Scale 1:2

3mm ACM with direct surface printed graphics. Clear protective laminate. Mounted 1500 ± 25mm to floor from sign center.

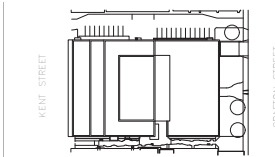
Mounting location TBD

Background Colour: to match GOOL GRAY

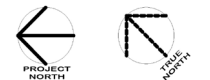
Sign border: to match LIGHT GRAY

(refer to page 3)

key plan



project and true North



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MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**M SERIES -
EMERGENCY AND
NOTIFICATION
SIGNS**

scale
As noted

project number.
ONBL17-0127

drawing no.
78

■ W SERIES - WARNING AND SAFETY SIGN

Door mounted



M10-W-100

Emergency Exit Sign.

400mm x 170mm x 3mm

Scale 1:2

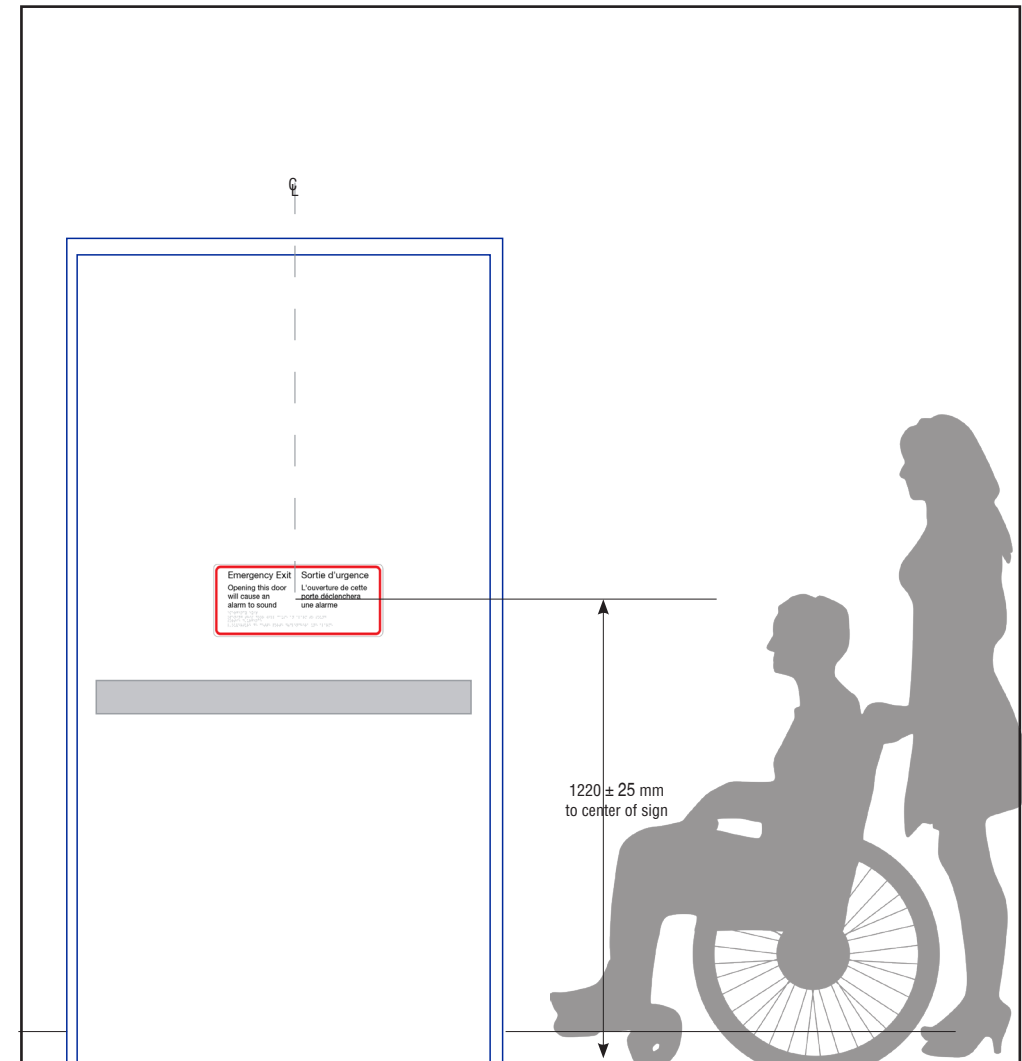
3mm ACM with direct surface printed graphics.

Clear protective laminate.

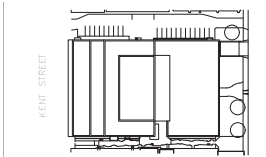
Door mounted.

Location: on ground floor - Stair A, B and C

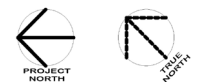
Door mounted signs
Front Elevation
Scale 1:20



key plan



project and true North



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DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
W SERIES-WARNING AND SAFETY SIGN

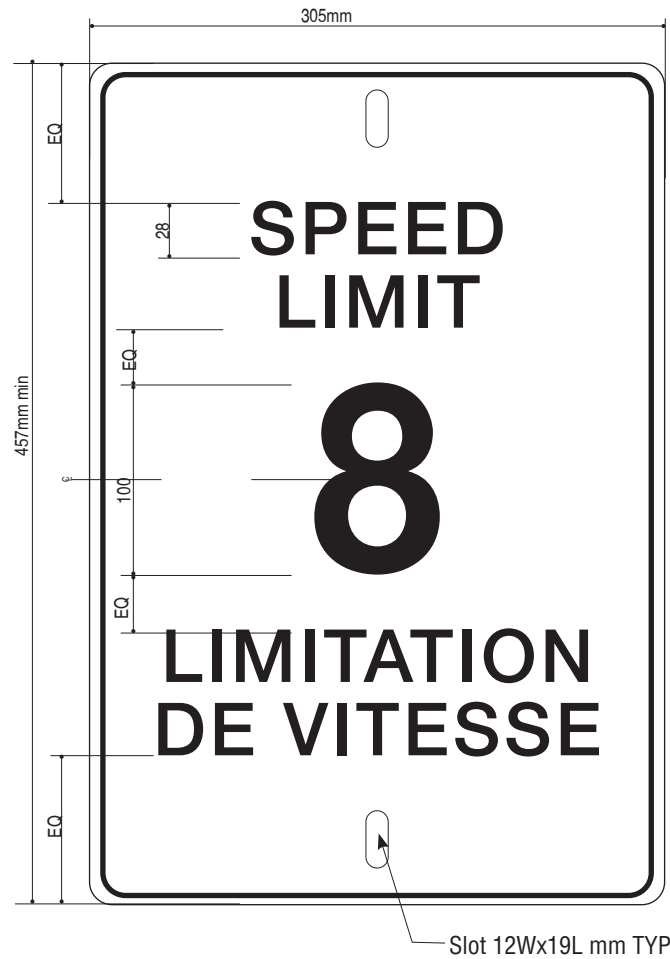
scale
As noted

project number.
ONBL17-0127

drawing no.
79

■ M SERIES - EMERGENCY AND NOTIFICATION SIGNS

Wall mounted



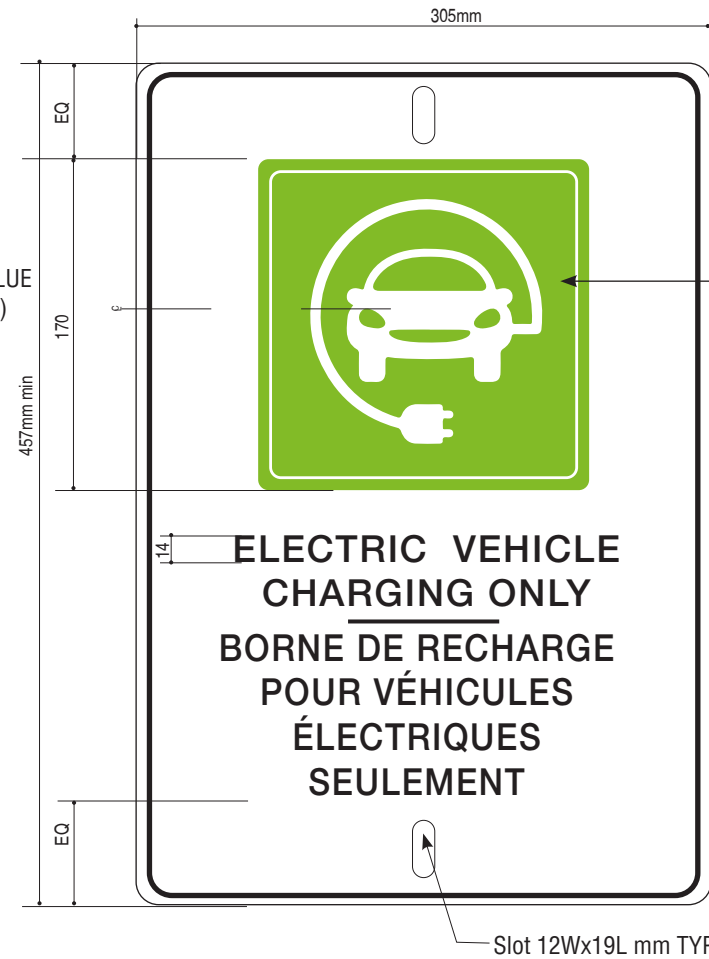
M11.1
Notification Sign - Parking and Traffic-Speed Limit

305mm x 457mm x 3mm
Scale 1:4
3mm thick Aluminum with radius corners, with Digital print on reflective applied to face. Sign to be installed to existing surface using appropriate screws and fasteners, 1500 ± 25mm to floor from sign center.



M11.2
Notification Sign - Parking and Traffic-By Permit Only

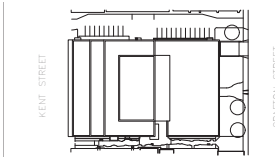
305mm x 457mm x 3mm
Scale 1:4
3mm thick Aluminum with radius corners, with Digital print on reflective applied to face. Sign to be installed to existing surface using appropriate screws and fasteners, 1500 ± 25mm to floor from sign center, centered on parking stall.



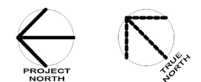
M11.3
Notification Sign - Parking and Traffic-Electric Vehicle Charging Only

305mm x 457mm x 3mm
Scale 1:4
3mm thick Aluminum with radius corners, with Digital print on reflective applied to face. Sign to be installed to signpost using appropriate screws and fasteners, 1500 ± 25mm to floor from sign center.

key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23

project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
M SERIES - EMERGENCY AND NOTIFICATION SIGNS

scale
As noted

project number.
ONBL17-0127

drawing no.
80

■ M SERIES - EMERGENCY AND NOTIFICATION SIGNS

Wall mounted



M11.4a
Notification Sign - Parking and Traffic-Handicapped Parking Direction
 305mm x 457mm x 3mm
 Scale 1:4
 3mm thick Aluminum with radius corners, with Digital print on reflective applied to face. Sign to be installed to existing surface using appropriate screws and fasteners, 1500 ± 25mm to floor from sign center.



M11.4b
 Scale 1:8



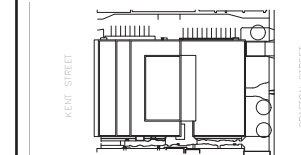
M11.5a
Notification Sign - Parking and Traffic-Bike Parking Direction
 305mm x 457mm x 3mm
 Scale 1:4
 3mm thick Aluminum with radius corners, with Digital print on reflective applied to face. Sign to be installed to existing surface using appropriate screws and fasteners, 1500 ± 25mm to floor from sign center.



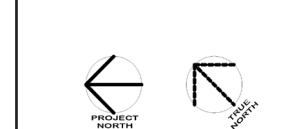
M11.5b
 Scale 1:8

match GREEN
 (refer to page 3)

key plan



project and true North



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revisions.	description	date
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project
DANIEL J MACDONALD MODERNIZATION
 Charlottetown, P.E.I.

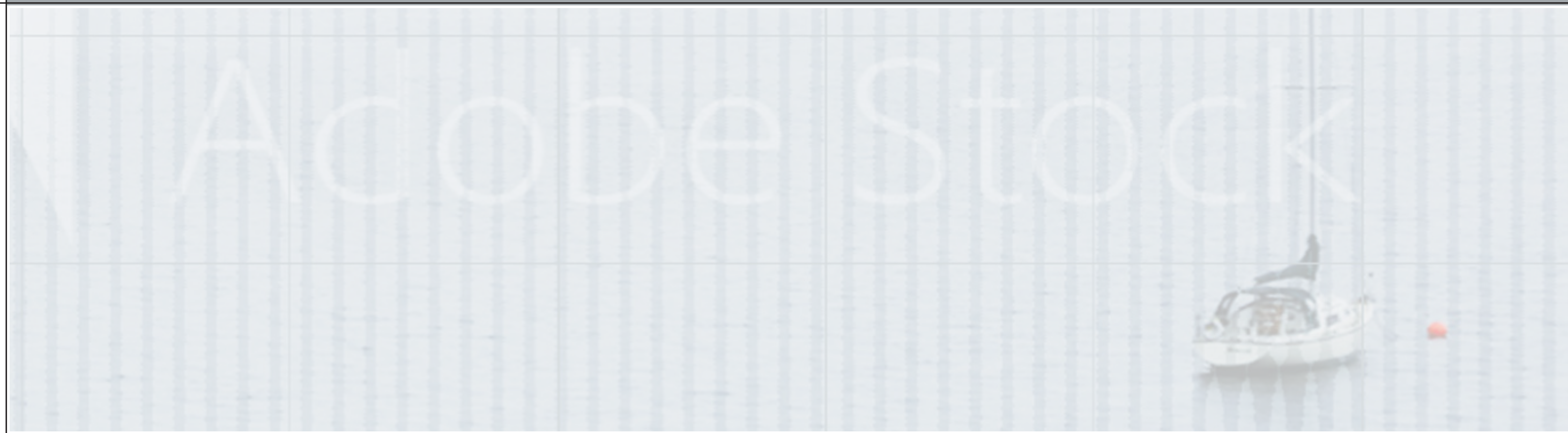
drawing
M SERIES - EMERGENCY AND NOTIFICATION SIGNS

scale
 As noted

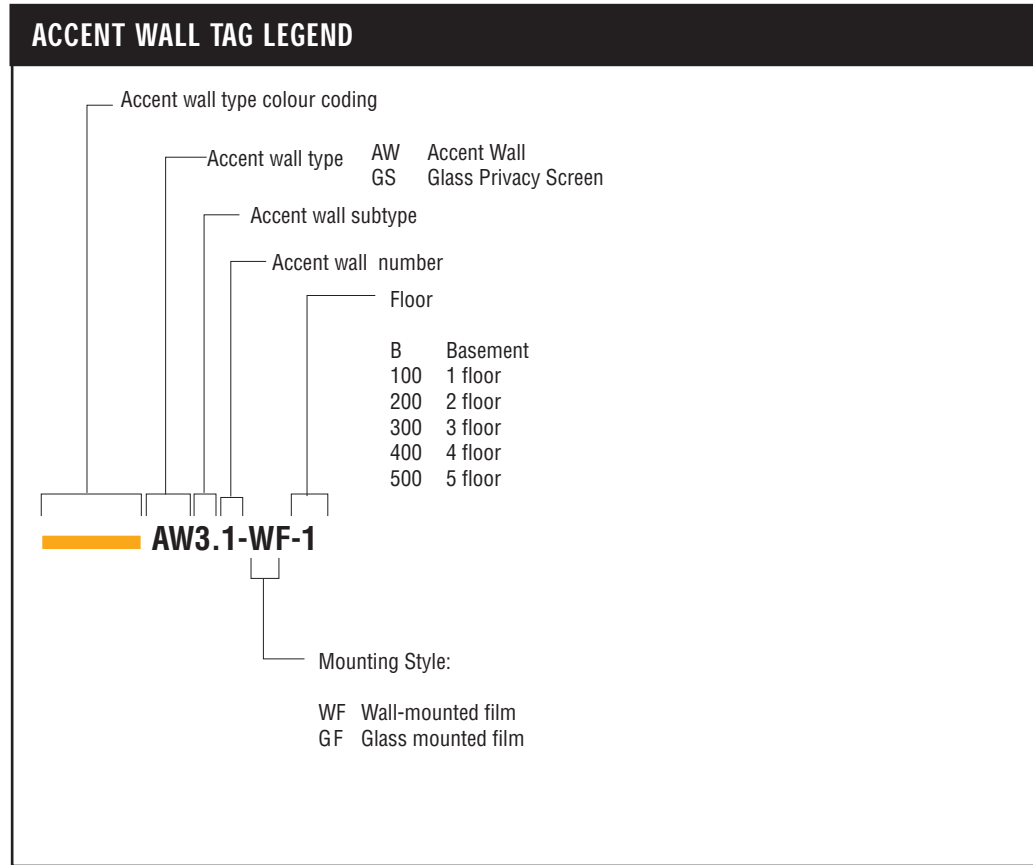
project number.
 ONBL17-0127

drawing no.
81

Accent Walls



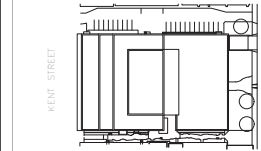
■ ACCENT WALL TYPE REFERENCE GUIDE



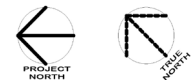
■ ACCENT WALL SCHEDULE

Colour coding	Accent wall code	Location	Installation	Rough Dimension (HxW) mm	Count
Basement					
	AW1.2-WF-B	Parking Garage	Wall-mounted film	2800x5240	1
	AW1.3-WF-B	Parking Garage	Wall-mounted film	2800x5340	1
	AW1.4-WF-B	Parking Garage	Wall-mounted film	2800x18650	1
	AW2.1-WF-B	Elevator lobby north	Wall-mounted film	2800x7400	1
	AW2.1a-WF-B	Elevator lobby north	Wall-mounted film	2800x1700	1
	AW2.2-WF-B	Elevator lobby south	Wall-mounted film	2800x5400	1
	AW3.1-WF-B	Basement floor corridor	Wall-mounted film	2800x10880	1
	AW3.2-WF-B	Basement floor(corridor-Wellness)	Wall-mounted film	2800x13920	1
	AW3.3-WF-B	Basement floor(Wellness)	Wall-mounted film	2800x5800	1
	AW6.1-WF-B	stair 'E'	Wall-mounted film	2200x1400	1
	AW6.2-WF-B	stair 'E'	Door-mounted film	228x916	1
1st floor					
	AW2.1-WF-100	Elevator lobby north		2800x12400	1
	AW2.1a-WF-100	Elevator lobby north		2800x1700	1
	AW2.2-WF-100	Elevator lobby south	Wall-mounted film	2800x9600	1
	AW3.1-WF-100	Open office and corridors	Wall-mounted film	2800x10800	1
	AW3.2-WF-100	Open office and corridors	Wall-mounted film	2800x8000	1
	AW3.3-WF-100	Open office and corridors	Wall-mounted film	2800x7000	1
	AW3.4-WF-100	Open office and corridors (Museum)	Wall-mounted film	2800x10000	1
	AW6.1-WF-100	stair 'E'	Wall-mounted film	2200x1400	1
	AW6.2-WF-100	stair 'E'	Door-mounted film	228x916	1
	GS1-GF-100	Glass Privacy Screen	Glass-mounted film	1000x48990 (total per floor)	
2nd floor					
	AW2.1-WF-200	Elevator lobby north	Wall-mounted film	2800x12400	1
	AW2.1a-WF-200	Elevator lobby north	Wall-mounted film	2800x1700	1
	AW2.2-WF-200	Elevator lobby south	Wall-mounted film	2800x9400	1
	AW3.1-WF-200	Open office and corridor	Wall-mounted film	2800x7000	1
	AW3.2-WF-200	Open office and corridor	Wall-mounted film	2800x9600	1
	AW3.3-WF-200	Open office and corridor	Wall-mounted film	2800x6000	1
	AW3.4-WF-200	Open office and corridor	Wall-mounted film	2800x12800	1
	AW3.5-WF-200	Open office and corridor	Wall-mounted film	2800x7500	1
	AW3.6-WF-06.200	Open office and corridor	Wall-mounted film	2800x5000	1
	AW6.1-WF-200	stair 'E'	Wall-mounted film	2200x1400	1
	AW6.2-WF-200	stair 'E'	Door-mounted film	228x916	1
	GS1-GF-200	Glass Privacy Screen	Glass-mounted film	1000x109310 (total per floor)	
3rd floor					
	AW2.1-WF-300	Elevator lobby north	Wall-mounted film	2800x7800	1
	AW2.1a-WF-300	Elevator lobby north	Wall-mounted film	2800x1700	1
	AW2.2-WF-300	Elevator lobby south	Wall-mounted film	2800x9400	1
	AW3.1-WF-300	Open office and corridor	Wall-mounted film	2800x7000	1
	AW3.2-WF-300	Open office and corridor	Wall-mounted film	2800x10800	1
	AW3.3-WF-300	Open office and corridor	Wall-mounted film	2800x9260	1
	AW3.4-WF-300	Open office and corridor	Wall-mounted film	2800x9000	1
	AW3.5-WF-300	Open office and corridor	Wall-mounted film	2800x7500	1
	AW3.6-WF-300	Open office and corridor	Wall-mounted film	2800x7880	1
	AW6.1-WF-300	stair 'E'	Wall-mounted film	2200x1400	1
	AW6.2-WF-300	stair 'E'	Door-mounted film	228x916	1
	GS1-GF-300	Glass Privacy Screen	Glass-mounted film	1000x119280 (total per floor)	
4th floor					
	AW2.1-WF-400	Elevator lobby north	Wall-mounted film	2800x7800	1
	AW2.1a-WF-400	Elevator lobby north	Wall-mounted film	2800x1700	1
	AW3.1-WF-400	Open office and corridor	Wall-mounted film	2800x9400	1
	AW3.2-WF-400	Open office and corridor	Wall-mounted film	2800x8300	1
	AW3.3-WF-400	Open office and corridor	Wall-mounted film	2800x6400	1
	AW6.1-WF-400	stair 'E'	Wall-mounted film	2200x1400	1
	AW6.2-WF-400	stair 'E'	Door-mounted film	228x916	1
	GS1-GF-400	Glass Privacy Screen	Glass-mounted film	1000x43390 (total per floor)	
5th floor					
	AW2.1-WF-500	Elevator lobby north	Wall-mounted film	2800x7800	1
	AW2.1a-WF-500	Elevator lobby north	Wall-mounted film	2800x1700	1
	AW3.1-WF-500	Open office and corridor	Wall-mounted film	2800x6200	1
	AW3.2-WF-500	Open office and corridor	Wall-mounted film	2800x4200	1
	AW6.1-WF-500	stair 'E'	Wall-mounted film	2200x1400	1
	AW6.2-WF-500	stair 'E'	Door-mounted film	228x916	1
	GS1-GF-500	Glass Privacy Screen	Glass-mounted film	1000x54080 (total per floor)	

key plan



project and true North



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0	NORR ADDENDUM #1	2022-06-23
revisions.	description	date

project
DANIEL J MACDONALD MODERNIZATION
 Charlottetown, P.E.I.

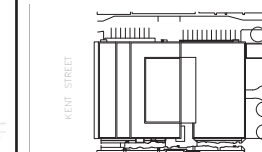
drawing
ACCENT WALL TYPE TAG REFERENCE GUIDE AND SCHEDULE

scale
 As noted

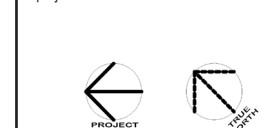
project number.
ONBL17-0127

drawing no.
AW-2

key plan



project and true North



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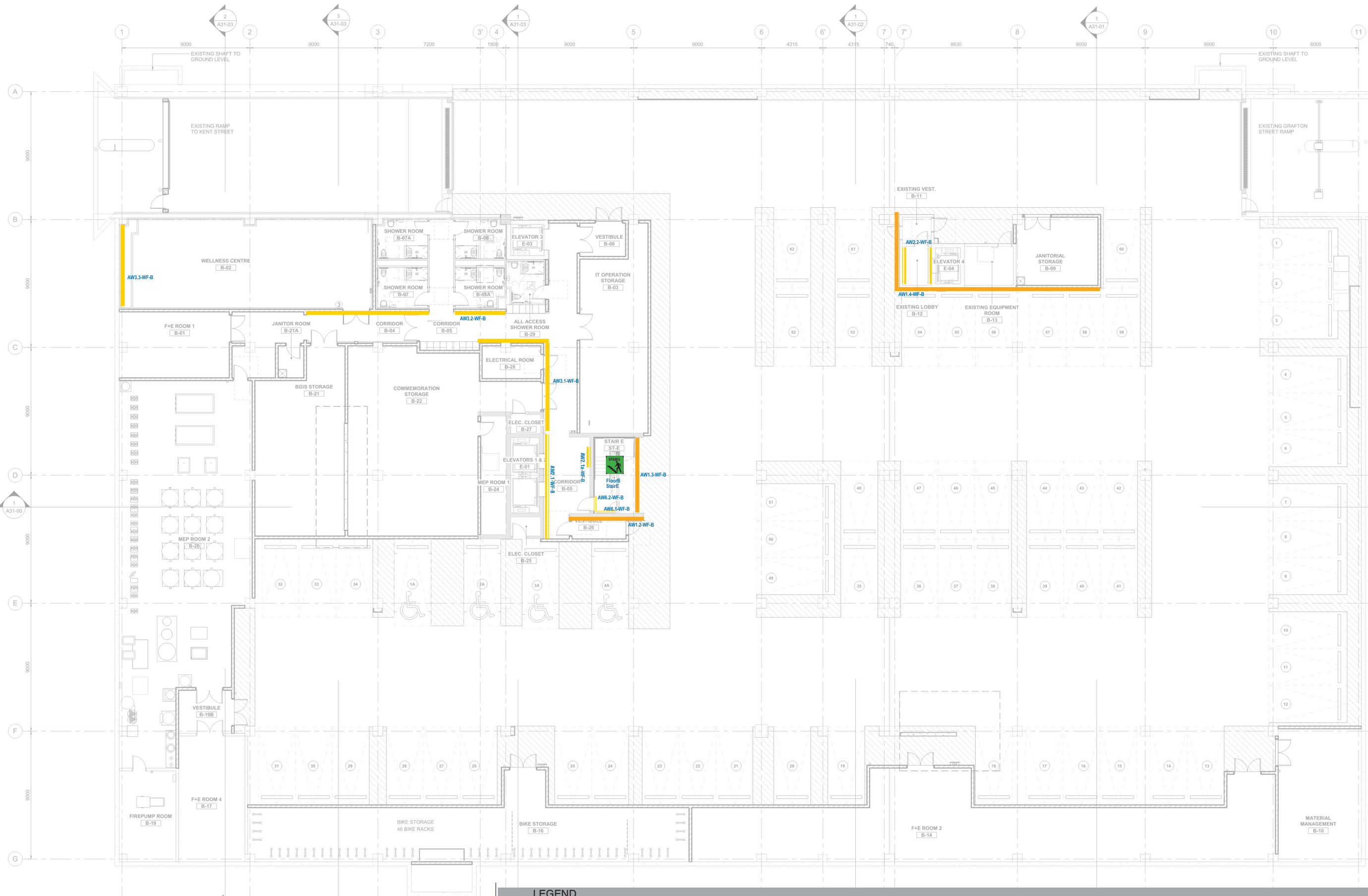
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
BASEMENT LEVEL ACCENT WALL LOCATION PLAN

scale
As noted

project number.
ONBL17-0127

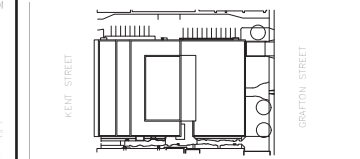
drawing no.
AW-3



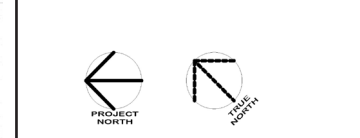
LEGEND

- Accent Wall (AW1) - Parking Garage - printed wallcovering over concrete
- Accent Wall (AW2) - Elevator Lobby - printed wallcovering
- Accent Wall (AW3) - Corridor and Open Office - printed wallcovering
- Accent Wall (AW6) - Stair^E - printed wallcovering
- Glass Privacy Screen (GF) - Film mounted on glass

key plan



project and true North



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revisions.	description	date

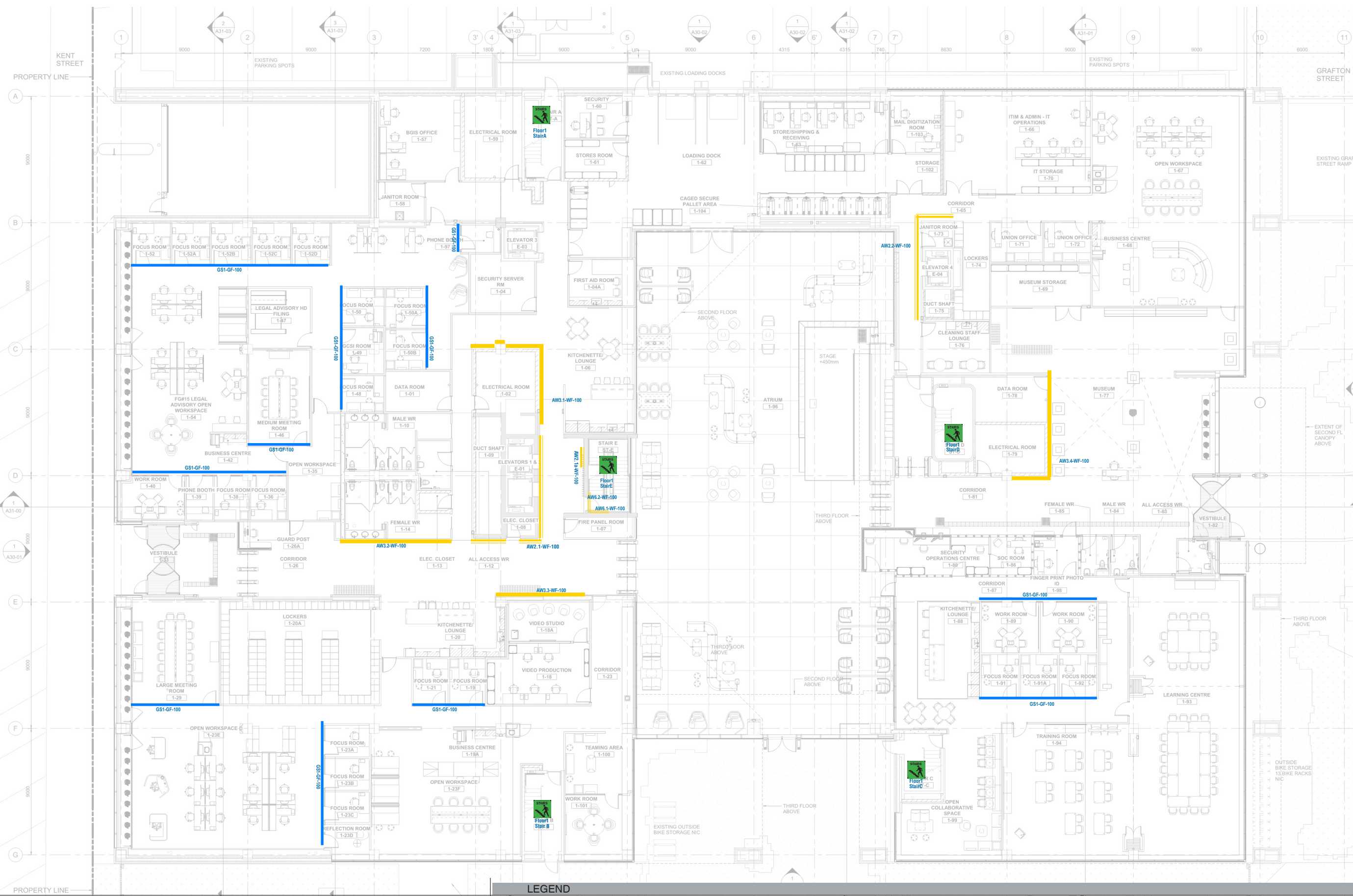
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
1ST FLOOR ACCENT WALL LOCATION PLAN

scale
As noted

project number.
ONBL17-0127

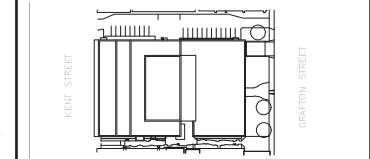
drawing no.
AW-4



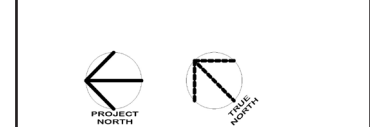
LEGEND

- Accent Wall (AW1) - Parking Garage - printed wallcovering over concrete
- Accent Wall (AW2) - Elevator Lobby - printed wallcovering
- Accent Wall (AW3) - Corridor and Open Office - printed wallcovering
- Accent Wall (AW6) - Stair"E" - printed wallcovering
- Glass Privacy Screen (GF) - Film mounted on glass

key plan



project and true North



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revisions.	description	date

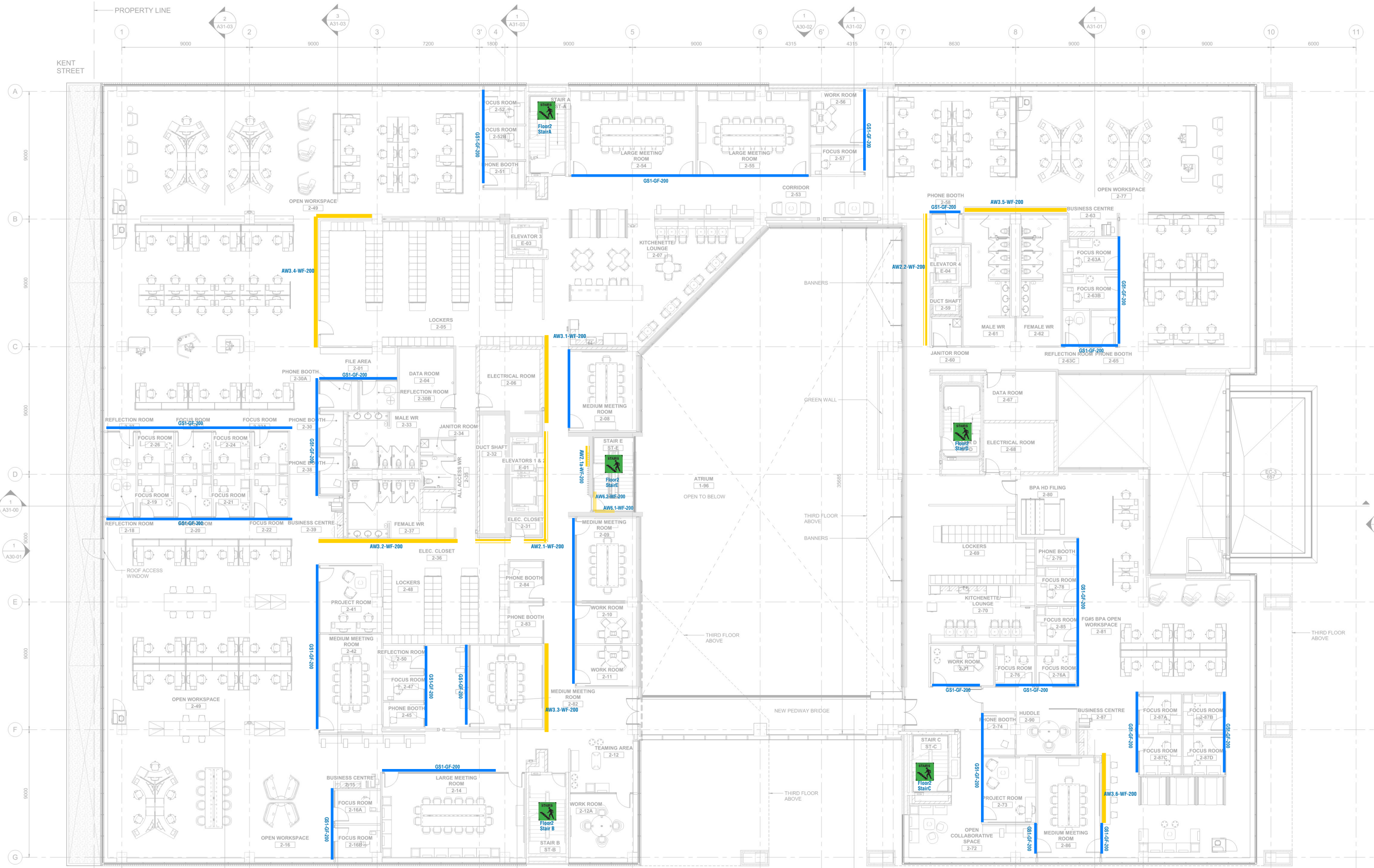
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
2ND FLOOR ACCENT WALL LOCATION PLAN

scale
As noted

project number.
ONBL17-0127

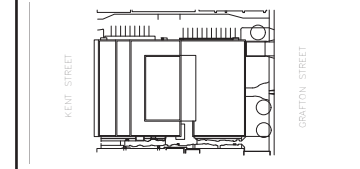
drawing no.
AW-5



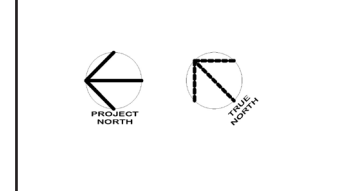
LEGEND

	Accent Wall (AW1) - Parking Garage - printed wallcovering over concrete		Accent Wall (AW6) - Stair'E' - printed wallcovering
	Accent Wall (AW2) - Elevator Lobby - printed wallcovering		Glass Privacy Screen (GF) - Film mounted on glass
	Accent Wall (AW3) - Corridor and Open Office - printed wallcovering		

key plan



project and true North



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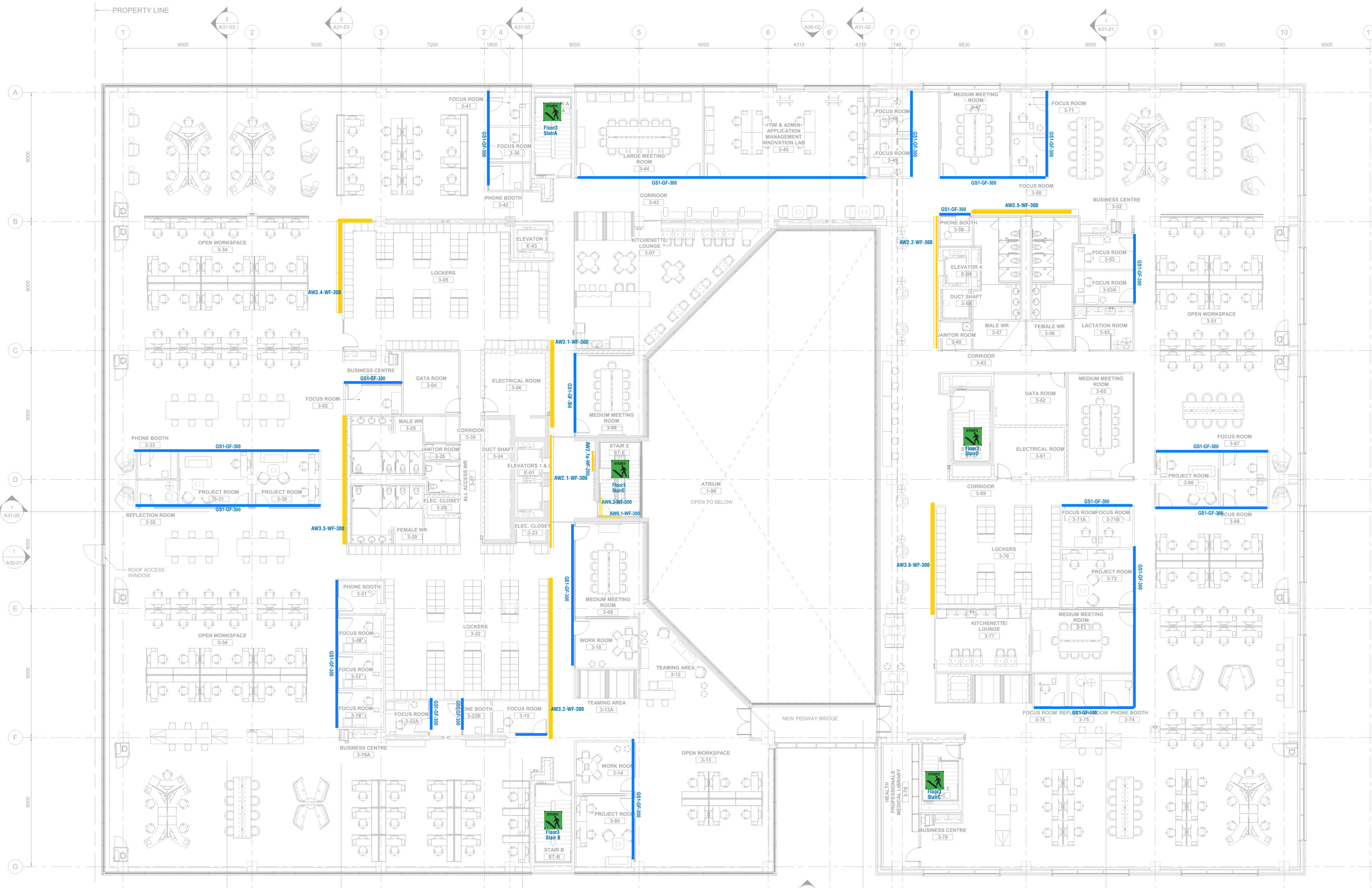
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
3RD FLOOR ACCENT WALL LOCATION PLAN

scale
As noted

project number.
ONBL17-0127

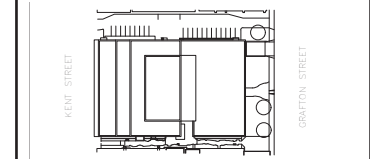
drawing no.
AW-6



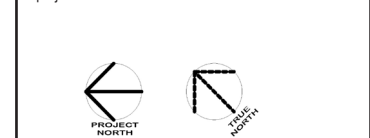
LEGEND

- Accent Wall (AW1) - Parking Garage - printed wallcovering over concrete
- Accent Wall (AW2) - Elevator Lobby - printed wallcovering
- Accent Wall (AW3) - Corridor and Open Office - printed wallcovering
- Accent Wall (AW4) - Corridor and Open Office - printed wallcovering
- Accent Wall (AW5) - Corridor and Open Office - printed wallcovering
- Accent Wall (AW6) - Stair"E" - printed wallcovering
- Glass Privacy Screen (GF) - Film mounted on glass

key plan



project and true North



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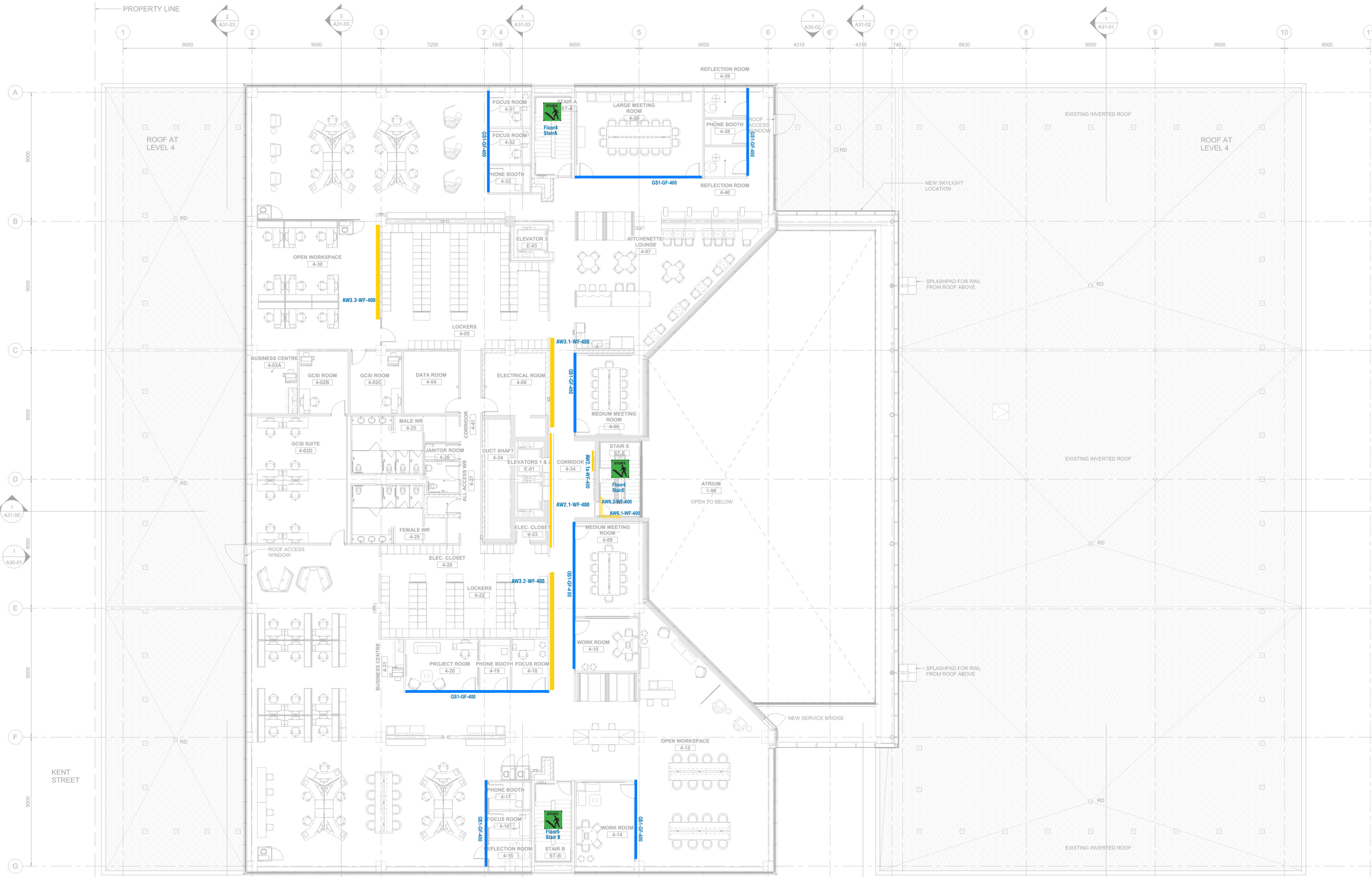
project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
4TH FLOOR ACCENT WALL LOCATION PLAN

scale
As noted

project number.
ONBL17-0127

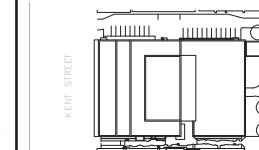
drawing no.
AW-7



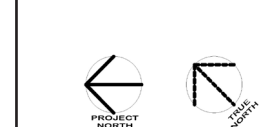
LEGEND

	Accent Wall (AW1) - Parking Garage - printed wallcovering over concrete		Accent Wall (AW6) - Stair"E" - printed wallcovering
	Accent Wall (AW2) - Elevator Lobby - printed wallcovering		Glass Privacy Screen (GF) - Film mounted on glass
	Accent Wall (AW3) - Corridor and Open Office - printed wallcovering		

key plan



project and true North



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project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**5TH FLOOR
ACCENT WALL
LOCATION PLAN**

scale
As noted

project number.
ONBL17-0127

drawing no.
AW-8



LEGEND

- Accent Wall (AW1) - Parking Garage - printed wallcovering over concrete
- Accent Wall (AW2) - Elevator Lobby - printed wallcovering
- Accent Wall (AW3) - Corridor and Open Office - printed wallcovering
- Accent Wall (AW6) - Stair"E" - printed wallcovering
- Glass Privacy Screen (GF) - Film mounted on glass

ACCENT WALLS (AW1) - BASEMENT FLOOR

COLOUR THEME

5 Floor

4 Floor

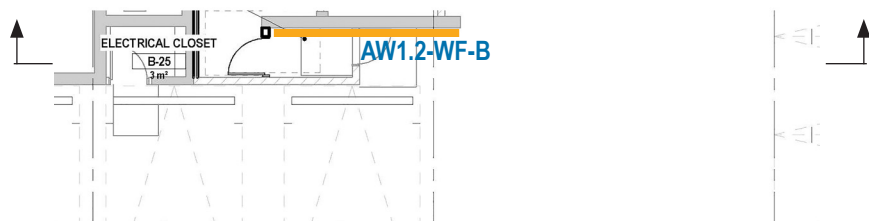
3 Floor

2 Floor

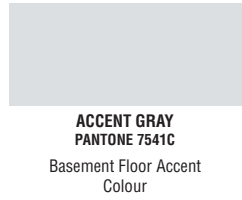
1 Floor

Basement

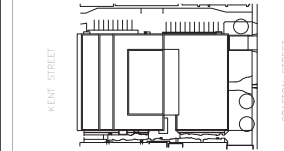
■ ACCENT WALL - BASEMENT FLOOR (AW1)
Wall-mounted Graphics over Concrete blocks



AW1.2-WF-B
 Scale 1:200
 Wall-mounted Acrylic Digital Printed Film over concrete blocks, Opaque.



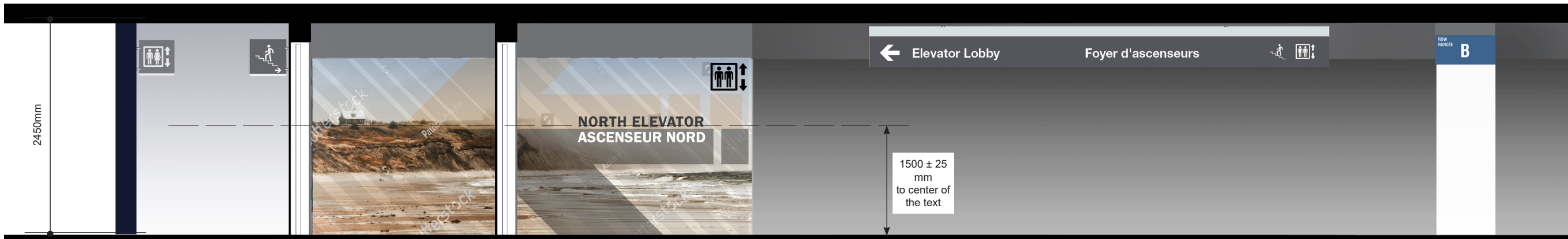
key plan



project and true North



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AW1.2-WF-B
 Detail,
 Scale 1:50



RECOMMENDED IMAGES for:
 Basement Floor

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revisions.	description	date

project
DANIEL J MACDONALD MODERNIZATION
 Charlottetown, P.E.I.

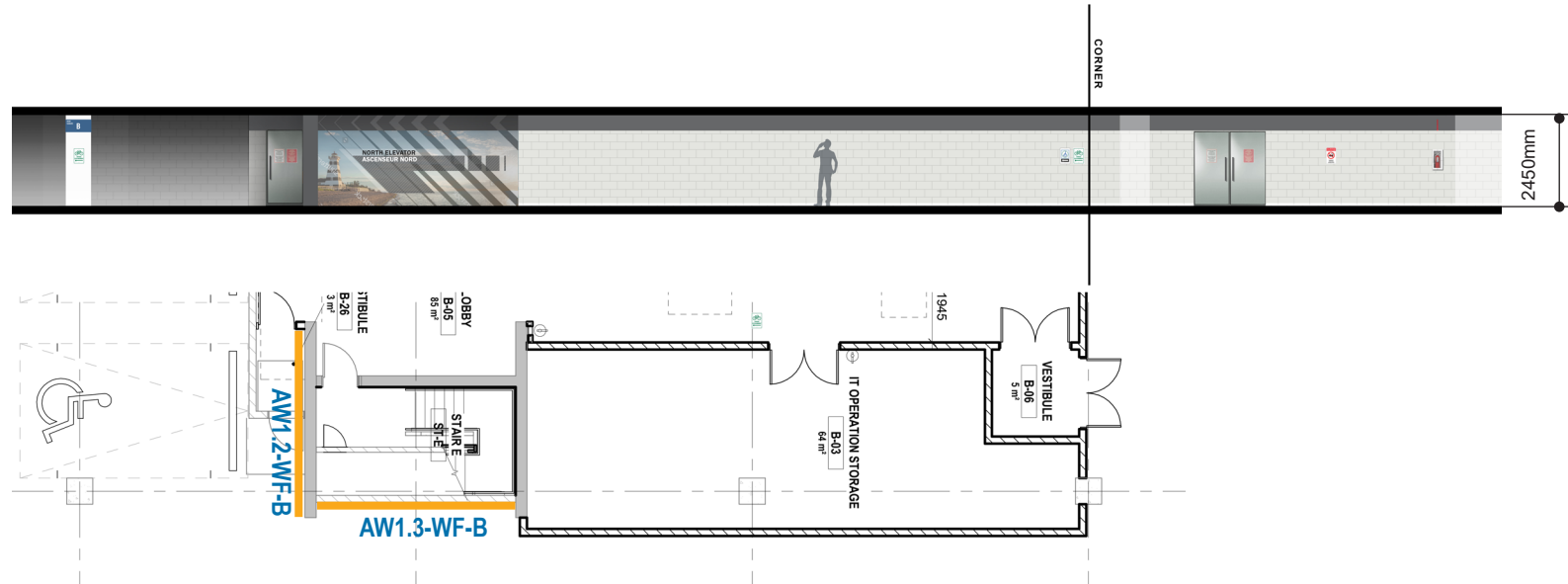
drawing
ACCENT WALL - BASEMENT FLOOR

scale
 As noted

project number.
 ONBL17-0127

drawing no.
AW-10

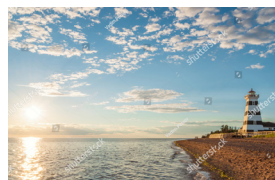
■ ACCENT WALL - BASEMENT FLOOR (AW1)
Wall-mounted Graphics over Concrete blocks



AW1.3-WF-B
 Scale 1:200
 Wall-mounted Acrylic Digital Printed Film over concrete blocks, Opaque.



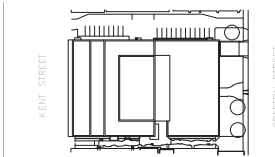
Detail
 N.T.S.
 Wall-mounted Acrylic Digital Printed Film over concrete blocks, Opaque.



RECOMMENDED IMAGES for:
 Basement Floor

ACCENT GRAY
 PANTONE 7541C
 Basement Floor Accent
 Colour

key plan



project and true North



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0	NORR ADDENDUM #1	2022-06-23

project
**DANIEL J
 MACDONALD
 MODERNIZATION**
 Charlottetown, P.E.I.

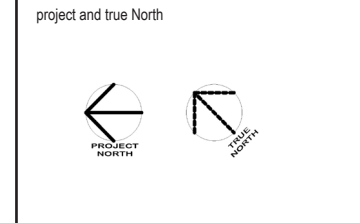
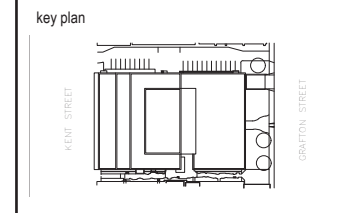
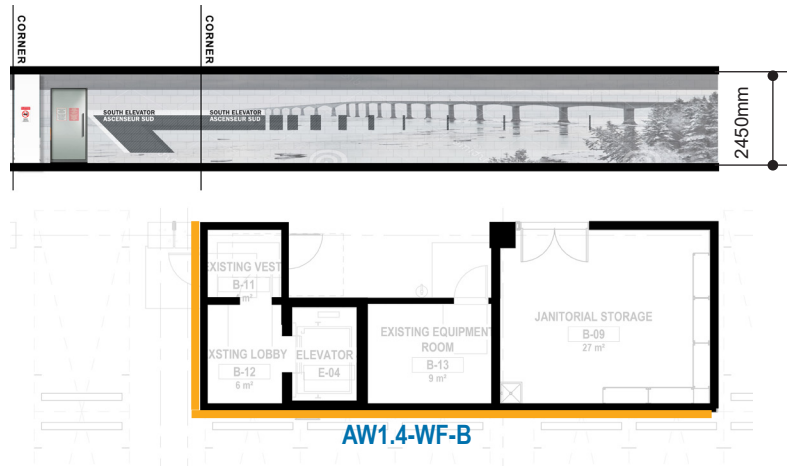
drawing
**ACCENT WALL -
 BASEMENT FLOOR**

scale
 As noted

project number.
 ONBL17-0127

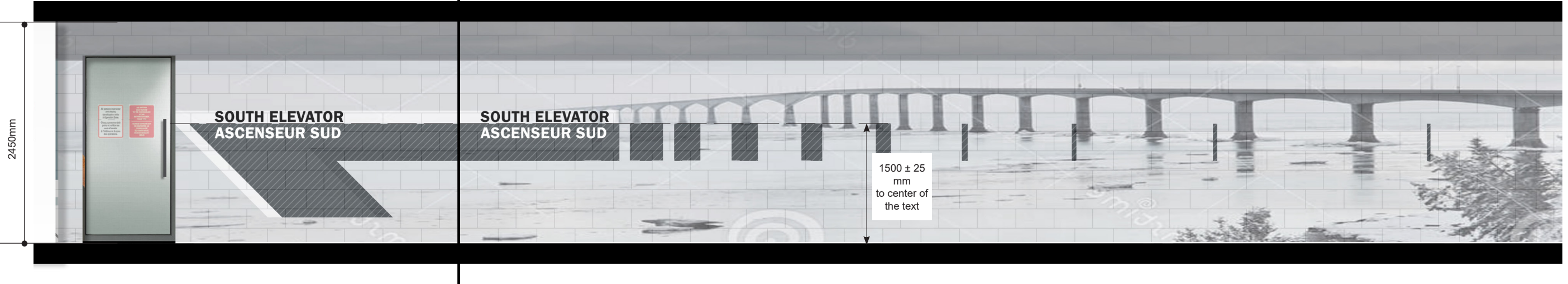
drawing no.
AW-11

■ ACCENT WALL - BASEMENT FLOOR (AW1)
Wall-mounted Graphics over Concrete blocks



This drawing is design-intent only. Fabricator is responsible for fabrication and engineering details not included in these drawings. Any changes in design, materials, fabrication method or other details must be approved by the client before fabrication.

AW1.3-WF-B
 Scale 1:200
 Wall-mounted Acrylic Digital Printed Film over concrete blocks, Opaque.



Detail
 N.T.S.
 Wall-mounted Acrylic Digital Printed Film over concrete blocks, Opaque.



RECOMMENDED IMAGES for:
 Basement Floor

1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23
revisions.	description	date

project
DANIEL J MACDONALD MODERNIZATION
 Charlottetown, P.E.I.

drawing
ACCENT WALL - BASEMENT FLOOR

scale
 As noted

project number.
 ONBL17-0127

drawing no.
AW-12

ACCENT WALLS (AW2) - ELEVATOR LOBBY

COLOUR THEME

5 Floor

4 Floor

3 Floor

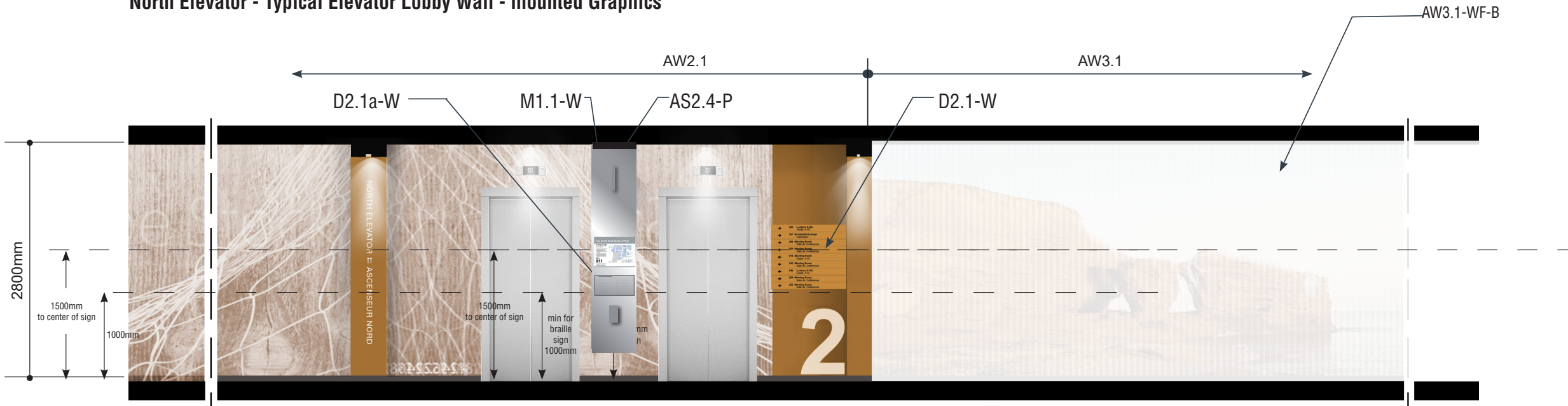
2 Floor

1 Floor

Basement

■ ACCENT WALL - ELEVATOR LOBBY (AW2.1)

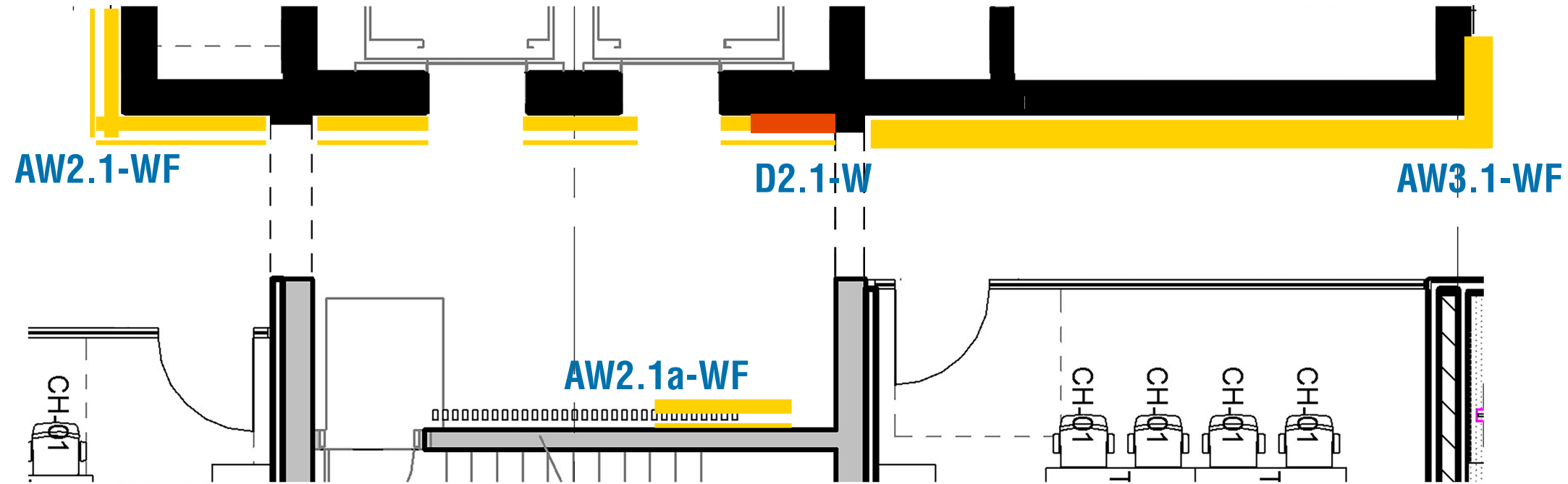
North Elevator - Typical Elevator Lobby Wall - mounted Graphics



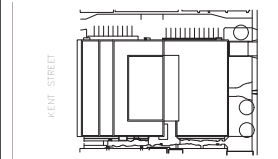
ACCENT SAND
PANTONE 7510 C
2nd Floor Accent
Colour

Typical AW2.1-WF

NTS
Wall-mounted Acrylic Digital Printed Film, Opaque



key plan



project and true North



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1	NORR ADDENDUM #10	2022-09-01
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revisions.	description	date

project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
ACCENT WALL - ELEVATOR LOBBY

scale
As noted

project number.
ONBL17-0127

drawing no.
AW-14

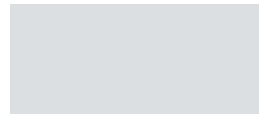
■ ACCENT WALL - ELEVATOR LOBBY (AW2.1)

North Elevator - Wall-mounted Graphics



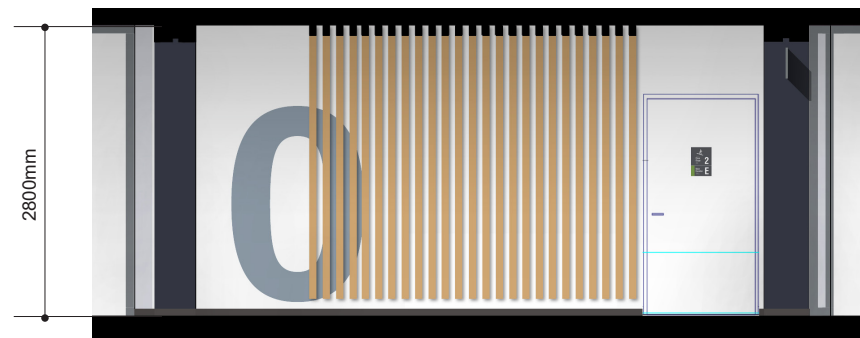
AW2.1-WF-B

NTS
Wall-mounted Acrylic Digital Printed Film, Opaque



ACCENT GRAY
PANTONE 7541C

Basement Floor Accent
Colour



AW2.1a-WF-B

NTS
Wall-mounted Acrylic Digital Printed Film, Opaque



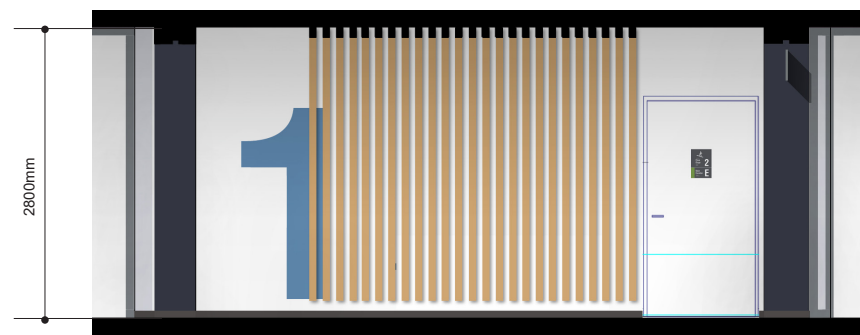
AW2.1-WF-100

NTS
Wall-mounted Acrylic Digital Printed Film, Opaque



ACCENT OCEAN
PANTONE 549 C

1st Floor Accent
Colour



AW2.1a-WF-100

NTS
Wall-mounted Acrylic Digital Printed Film, Opaque



RECOMMENDED IMAGES for:
AW2.1 and AW1.2
Basement Floor

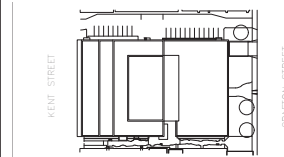


RECOMMENDED IMAGES for:
1st Floor

NOTE:

Graphic is not ready for production. Images approved by client to be purchased in hi-res from stock photo site and photo manipulated to match image style above. Site check required to confirm site condition and dimensions

key plan



project and true North



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revisions.	description	date

project

**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing

**ACCENT WALL -
ELEVATOR LOBBY**

scale

As noted

project number.

ONBL17-0127

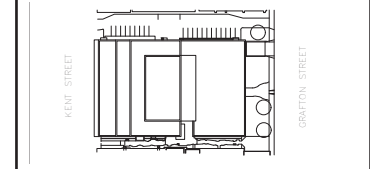
drawing no.

AW-15

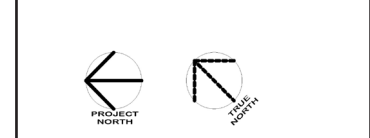
■ ACCENT WALL - ELEVATOR LOBBY (AW2.1)

North Elevator - Wall-mounted Graphics

key plan



project and true North



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revisions.	description	date

project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
ACCENT WALL - ELEVATOR LOBBY

scale
As noted

project number.
ONBL17-0127

drawing no.
AW-16



RECOMMENDED IMAGES for:
AW2.1 and AW1.2
2nd Floor



RECOMMENDED IMAGES for:
3rd Floor

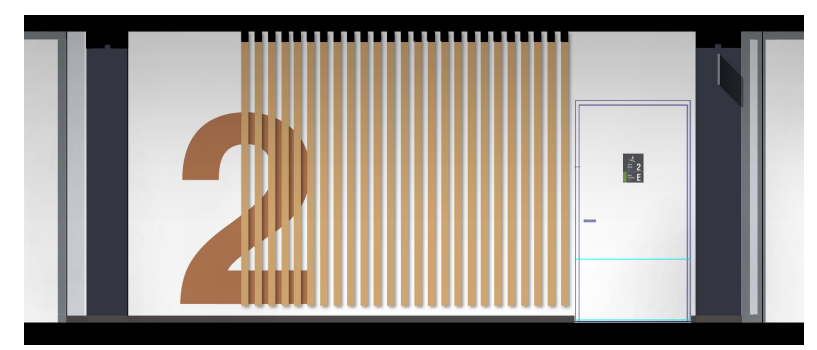
NOTE:
Graphic is not ready for production. Images approved by client to be purchased in hi-res from stock photo site and photo manipulated to match image style above. Site check required to confirm site condition and dimensions



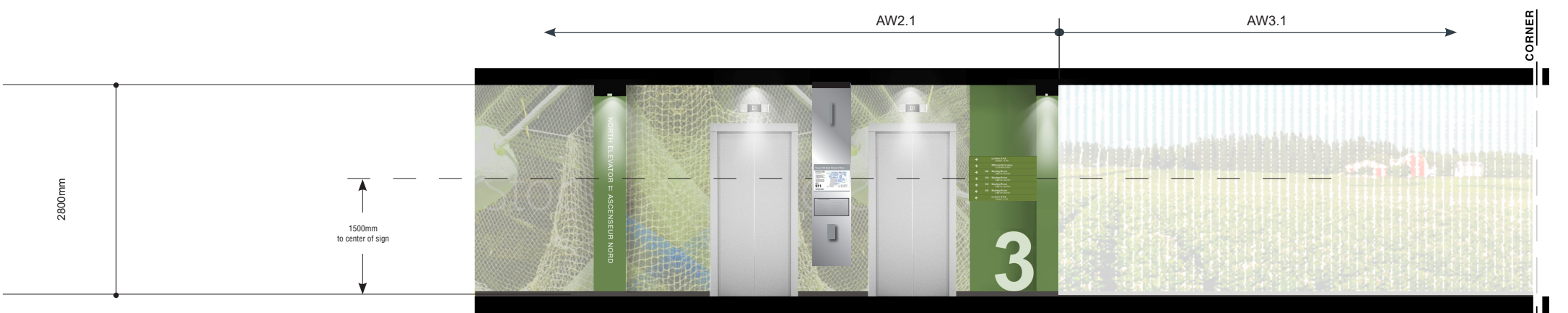
AW2.1-WF-200
NTS
Wall-mounted Acrylic Digital Printed Film, Opaque



ACCENT SAND
PANTONE 7510 C
2nd Floor Accent Colour



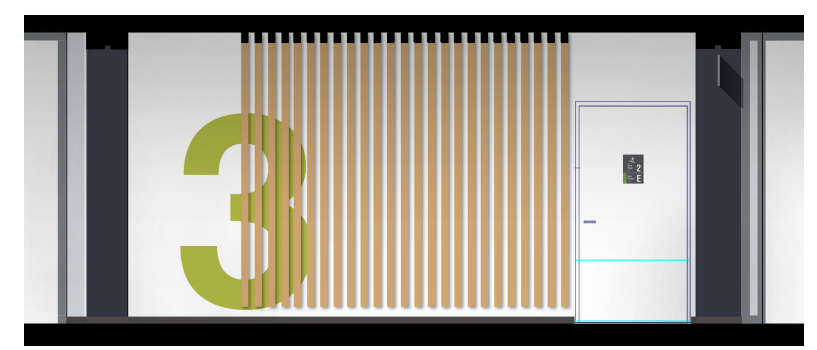
AW2.1a-WF-200
NTS
Wall-mounted Acrylic Digital Printed Film, Opaque



AW2.1-WF-300
NTS
Wall-mounted Acrylic Digital Printed Film, Opaque



ACCENT GREEN FIELDS
PANTONE 576 C
3rd Floor Accent Colour



AW2.1a-WF-300
NTS
Wall-mounted Acrylic Digital Printed Film, Opaque

■ ACCENT WALL - ELEVATOR LOBBY (AW2.1)

North Elevator - Wall-mounted Graphics

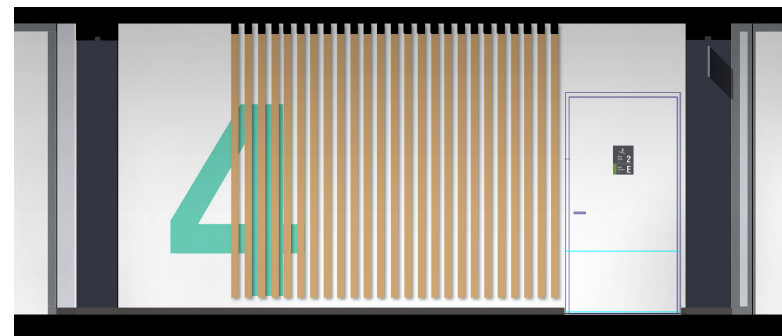


AW2.1-WF-400

NTS
Wall-mounted Acrylic Digital Printed Film, Opaque



ACCENT MINT
PANTONE Green 0921 C
4th Floor Accent
Colour



AW2.1a-WF-400

NTS
Wall-mounted Acrylic Digital Printed Film, Opaque

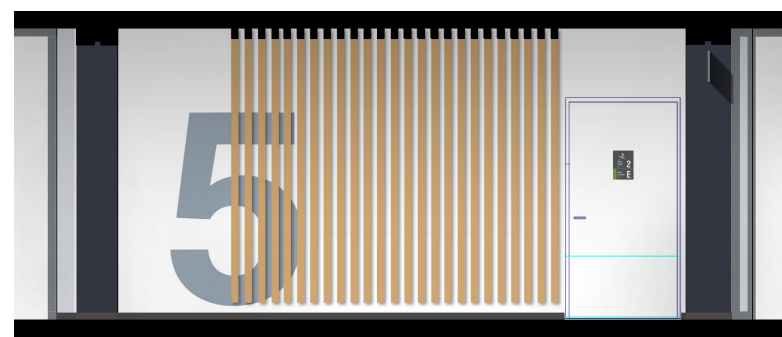


AW2.1-WF-500

NTS
Wall-mounted Acrylic Digital Printed Film, Opaque



ACCENT FOG
PANTONE 430 C
5th Floor Accent
Colour



AW2.1a-WF-500

NTS
Wall-mounted Acrylic Digital Printed Film, Opaque



RECOMMENDED IMAGES for:
AW2.1 and AW1.2
4th Floor

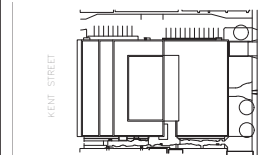


RECOMMENDED IMAGES for:
5th Floor

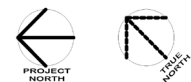
NOTE:

Graphic is not ready for production. Images approved by client to be purchased in hi-res from stock photo site and photo manipulated to match image style above. Site check required to confirm site condition and dimensions

key plan



project and true North



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revisions.	description	date

project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**ACCENT WALL -
ELEVATOR LOBBY**

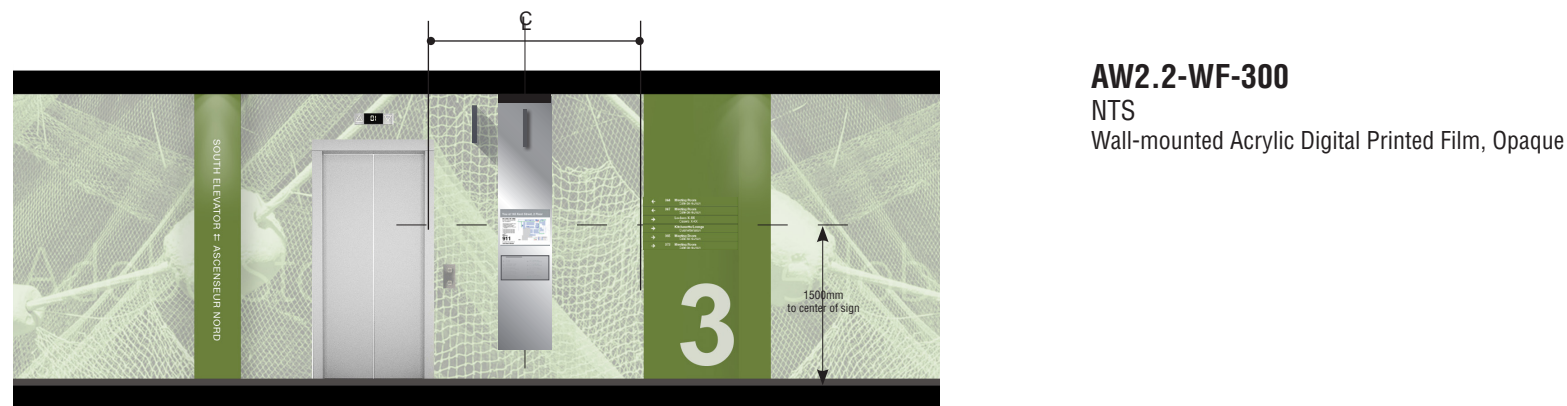
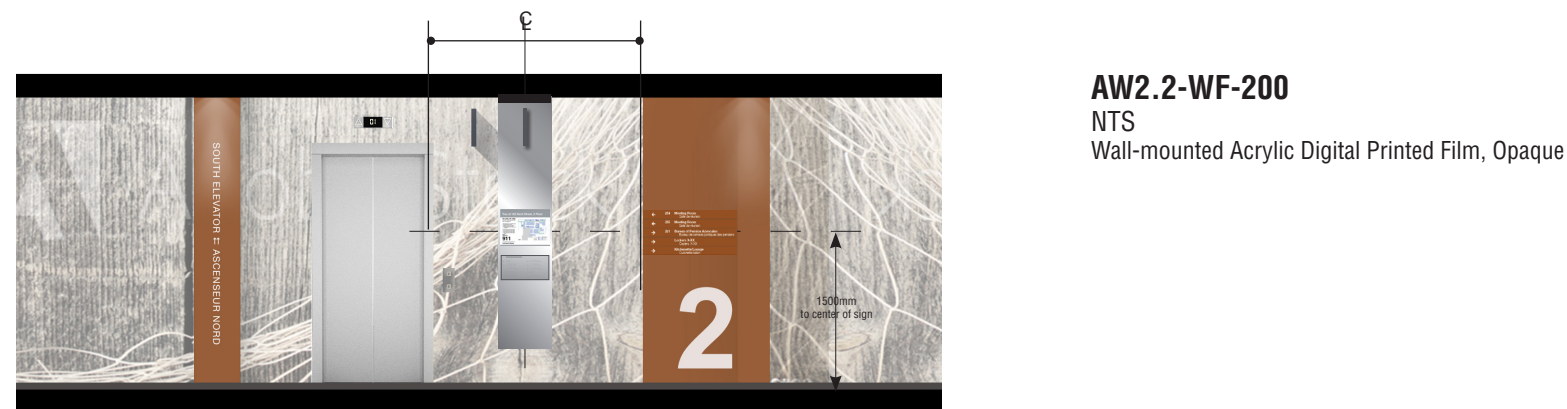
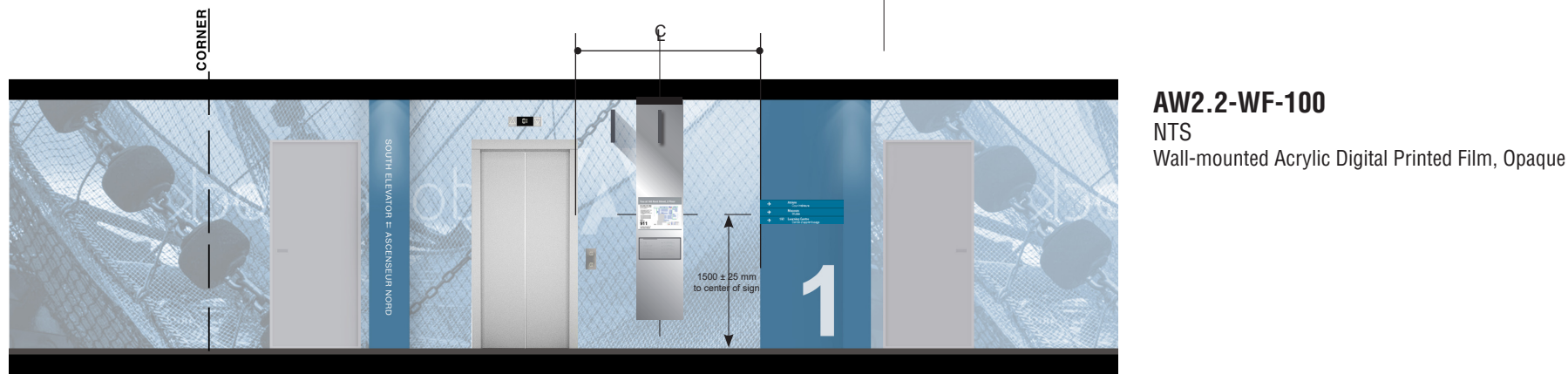
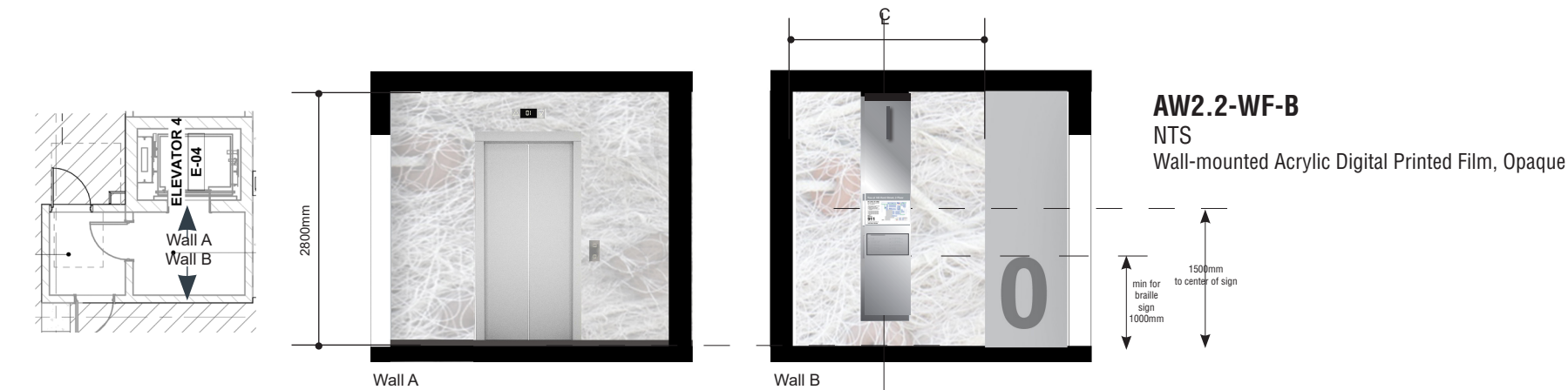
scale
As noted

project number.
ONBL17-0127

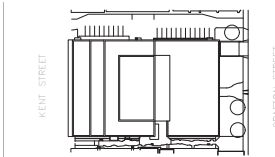
drawing no.
AW-17

■ ACCENT WALL - ELEVATOR LOBBY (AW2.2)

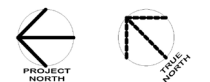
South Elevator - Wall-mounted Graphics



key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23

project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

drawing
ACCENT WALL - ELEVATOR LOBBY

scale
As noted

project number.
ONBL17-0127

drawing no.
AW-18

ACCENT WALLS (AW3) - OPEN OFFICE AND CORRIDORS

COLOUR THEME

5 Floor

4 Floor

3 Floor

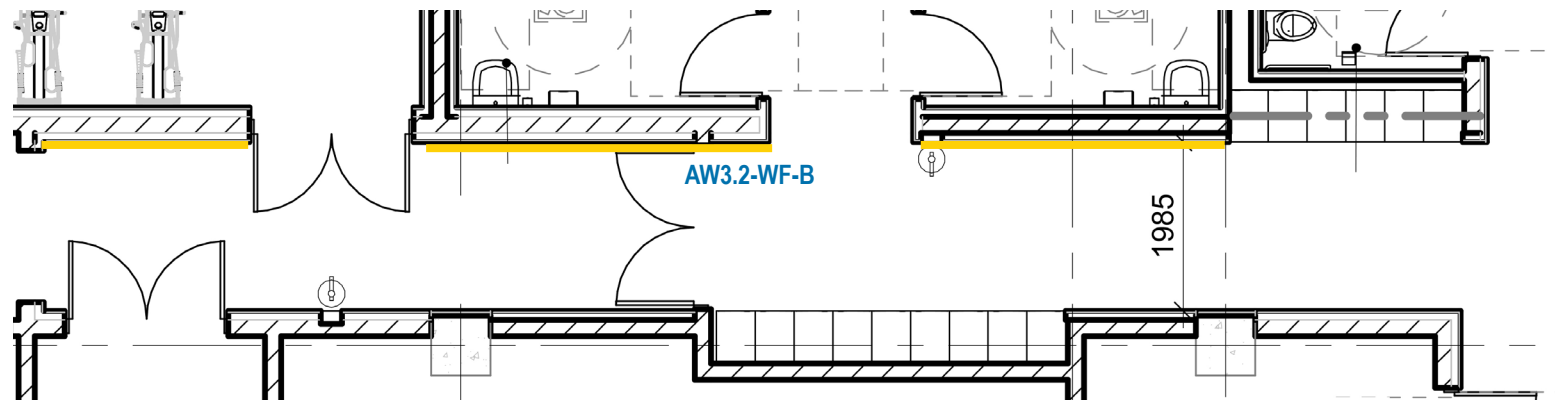
2 Floor

1 Floor

Basement

■ ACCENT WALL - BASEMENT FLOOR (AW3)

Wall-mounted Graphics



AW3.2-WF-B

Scale 1:100

Wall-mounted Acrylic Digital Printed Film, Opaque



AW3.3-WF-B

Scale 1:50

Wall-mounted Acrylic Digital Printed Film, Opaque



IMAGES:
<https://www.dreamstime.com/stock-photo-silhouette-man-running-sunrise-sun-background-image51640328>



AW3.1-WF-B

Scale 1:50

Wall-mounted Acrylic Digital Printed Film, Opaque



IMAGES:
<https://stock.adobe.com/ca/images/confederation-bridge-over-sea-ice-to-pei-canada/255522727>



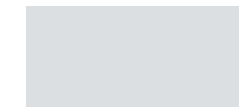
IMAGES:
<https://stock.adobe.com/ca/images/prince-edward-island-national-park-greenwich-beach/238390806>



IMAGES:
<https://stock.adobe.com/ca/images/dunelands-in-prince-edward-island/151180257?>

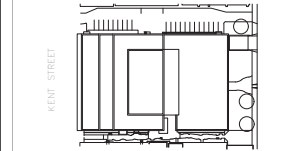


IMAGES:
<https://stock.adobe.com/ca/images/red-soil-road/174517871>

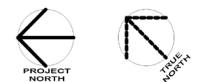


ACCENT GRAY
PANTONE 7541C
 Basement Floor Accent
 Colour

key plan



project and true North



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1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23
revisions.	description	date

project
DANIEL J MACDONALD MODERNIZATION
 Charlottetown, P.E.I.

drawing
ACCENT WALL - BASEMENT FLOOR

scale
 As noted

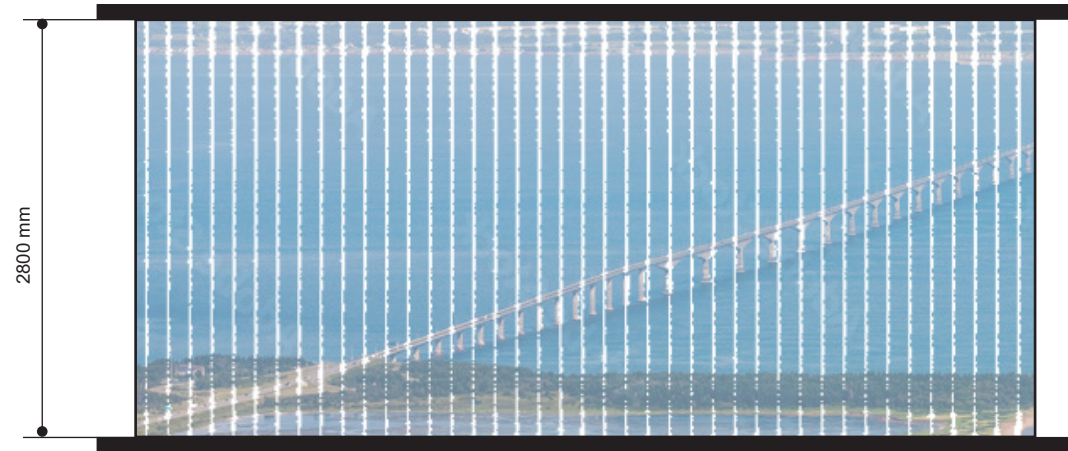
project number.
ONBL17-0127

drawing no.
AW-20

■ ACCENT WALL - OPEN OFFICE AND CORRIDORS (AW3)

Wall-mounted Graphics, open office and corridors - Floor 1

Wall Image theme: Blue - Water - Ocean

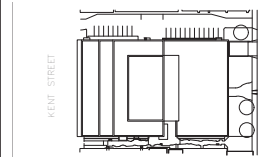


Scale 1:50
Wall-mounted Acrylic Digital Printed Film,
Opaque

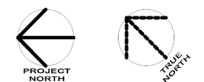


ACCENT OCEAN
PANTONE 549 C
1st Floor Accent
Colour

key plan



project and true North



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revisions.	description	date

project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**ACCENT WALL -
OPEN OFFICE AND
CORRIDORS**

scale
As noted

project number.
ONBL17-0127

drawing no.
AW-21



RECOMMENDED IMAGES for:
AW3.1-WF-100
2800x10800mm

AW3.2-WF-100
2800x8000mm

AW3.3-WF-100
2800x7000mm



AW3.5-WF-200
2800x7500 mm

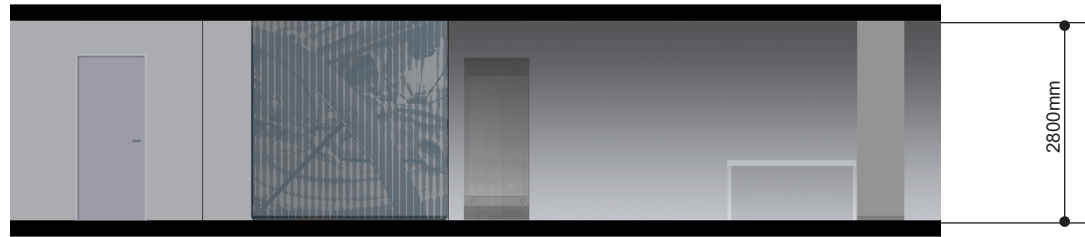
AW3.6-WF-200
2800x5000 mm



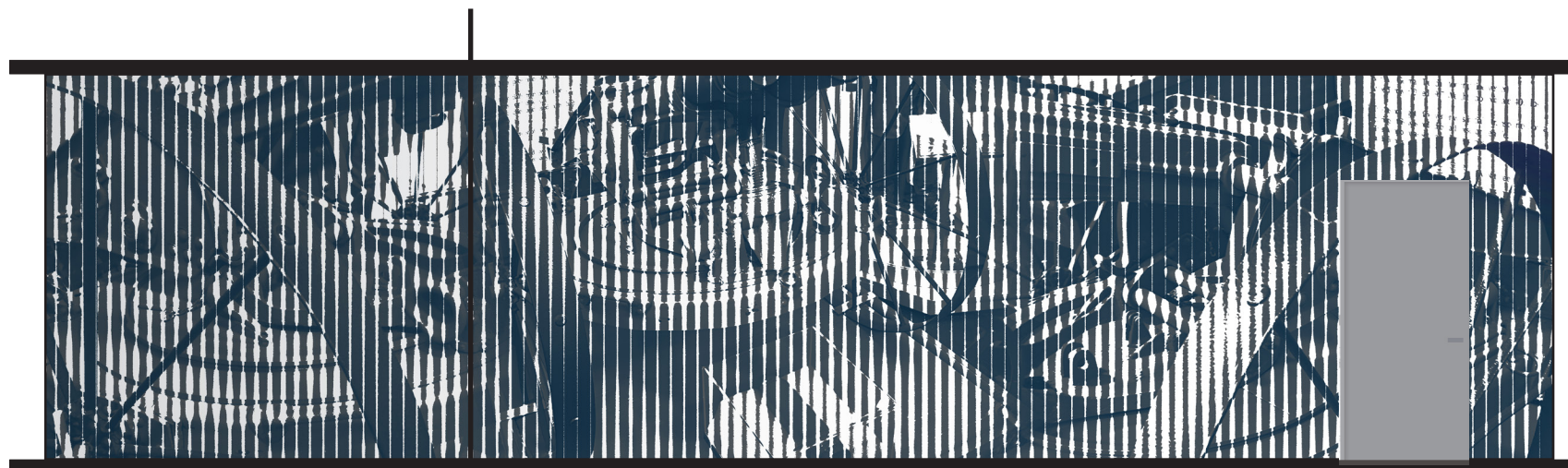
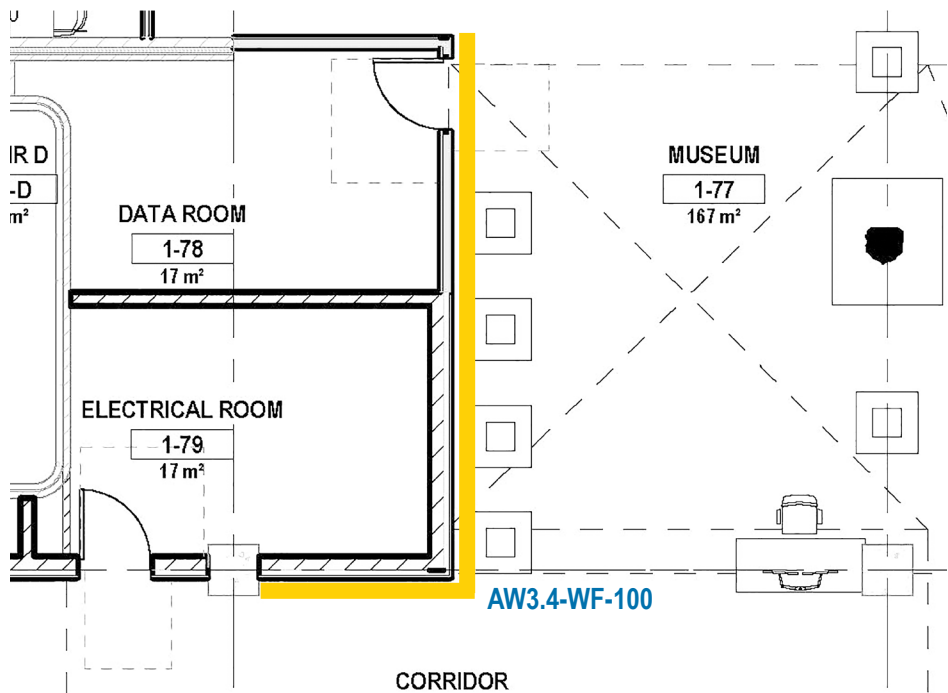
NOTE:
Graphic is not ready for production. Images approved by client to be purchased in hi-res from stock photo site and photo manipulated to match image style above. Site check required to confirm site condition and dimensions.

■ ACCENT WALL - OPEN OFFICE AND CORRIDORS (AW3)

Wall-mounted Graphics, open office and corridors - Floor 1



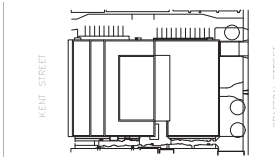
AW3.4-WF-200
Scale 1:100
Wall-mounted Acrylic Digital Printed Film, Opaque



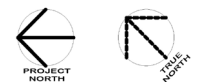
AW3.4-WF-100
2800x10000mm
Scale 1:50
Wall-mounted Acrylic Digital Printed Film, Opaque

IMAGES:
collage from museum images provided by client.

key plan



project and true North



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revisions.	description	date
1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23

project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**ACCENT WALL -
ELEVATOR LOBBY**

scale
As noted

project number.
ONBL17-0127

drawing no.
AW-22

■ ACCENT WALL - OPEN OFFICE AND CORRIDORS (AW3)

Wall-mounted Graphics, open office and corridors - Floor 2

Wall Image theme: Terracotta - Sand - Beaches



AW3.1-WF-200
2800x7000 mm
Scale 1:50
Wall-mounted Acrylic Digital Printed Film, Opaque

ACCENT SAND
PANTONE 7510 C
2nd Floor Accent
Colour



RECOMMENDED IMAGES for:

AW3.1-WF-200
2800x7000 mm

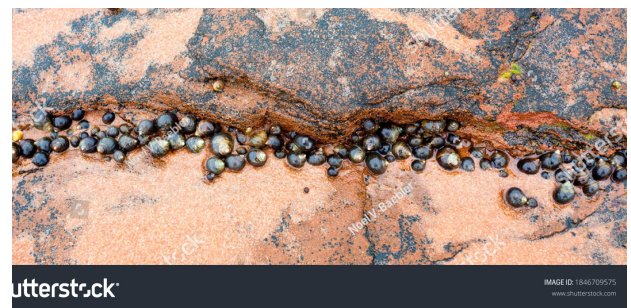
AW3.2-WF-200:
2800x9600mm

AW3.3-WF-200:
2800x6000mm

AW3.4-WF-200
2800x12800mm

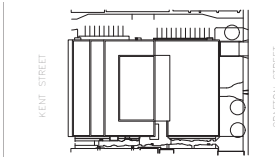
AW3.5-WF-200
2800x7500mm

AW3.6-WF-200
2800x5000mm

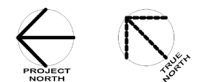


NOTE:
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key plan



project and true North



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revisions.	description	date

project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**ACCENT WALL -
OPEN OFFICE AND
CORRIDORS**

scale
As noted

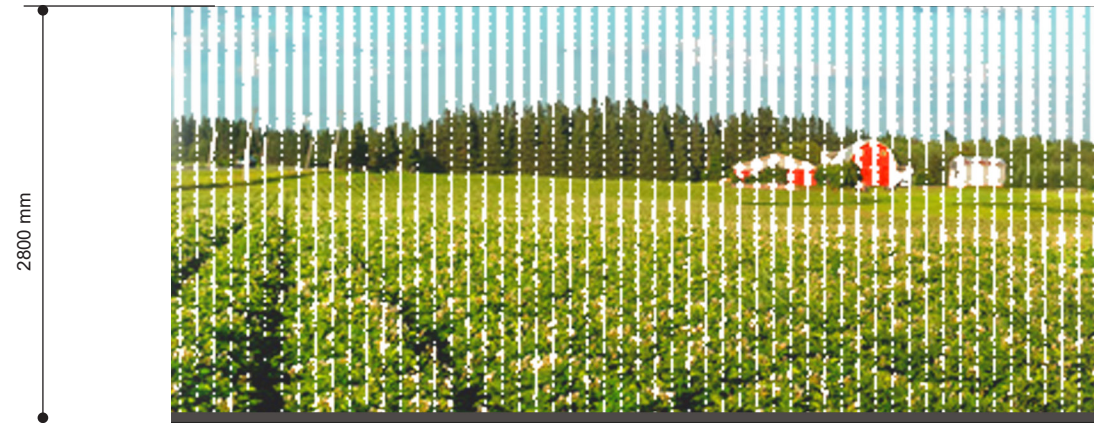
project number.
ONBL17-0127

drawing no.
AW-23

■ ACCENT WALL - OPEN OFFICE AND CORRIDORS (AW3)

Wall-mounted Graphics, open office and corridors - Floor 3

Wall Image theme: Green - Fields - Farm



AW3.1-WF-300

2800x7000 mm

Scale 1:50

Wall-mounted Acrylic Digital Printed Film, Opaque



ACCENT GREEN FIELDS
PANTONE 576 C
3rd Floor Accent
Colour



RECOMMENDED IMAGES for:

AW3.1-WF-300

2800x7000 mm

AW3.2-WF-300:

2800x10800 mm

AW3.3-WF-300:

2800x9260 mm

AW3.4-WF-300

2800x9000 mm

AW3.5-WF-300

2800x7500 mm

AW3.6-WF-300

2800x7880 mm

NOTE:

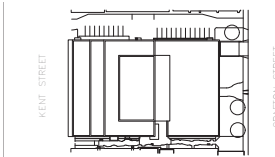
Graphic is not ready for production. Images approved by client to be purchased in hi-res from stock photo site and photo manipulated to match image style above. Site check required to confirm site condition and dimensions.

NORR

NORR Architects & Engineers Limited
An Ingenium Group Company

175 Bloor St. East
North Tower, 15th Floor
Toronto, ON, Canada M4W 3R8
norr.com

key plan



project and true North



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0	NORR ADDENDUM #1	2022-06-23
revisions.	description	date

project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**ACCENT WALL -
OPEN OFFICE AND
CORRIDORS**

scale
As noted

project number.
ONBL17-0127

drawing no.
AW-24

■ ACCENT WALL - OPEN OFFICE AND CORRIDORS (AW3)

Wall-mounted Graphics, open office and corridors - Floor 4

Wall Image theme: Mint - Netting - Lobster Trap - Buildings



AW3.1-WF-400

2800x9400 mm

Scale 1:50

Wall-mounted Acrylic Digital Printed Film, Opaque

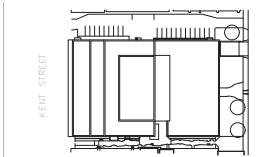


ACCENT MINT
PANTONE Green 0921 C
4th Floor Accent
Colour

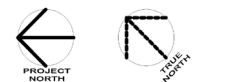


175 Bloor St. East
North Tower, 15th Floor
Toronto, ON, Canada M4W 3R8
norr.com

key plan



project and true North



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1	NORR ADDENDUM #10	2022-09-01
0	NORR ADDENDUM #1	2022-06-23
revisions.	description	date

project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**ACCENT WALL -
OPEN OFFICE AND
CORRIDORS**

scale
As noted

project number.
ONBL17-0127

drawing no.
AW-25



RECOMMENDED IMAGES for:

AW3.1-WF-400

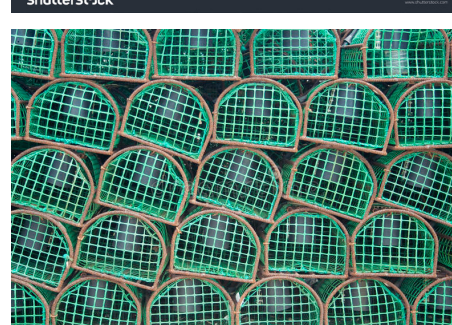
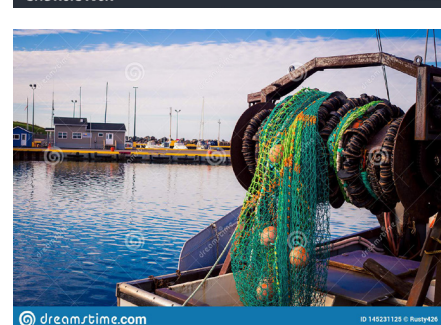
2800x9400 mm

AW3.2-WF-400:

2800x8300 mm

AW3.3-WF-400:

2800x6400 mm



NOTE:

Graphic is not ready for production. Images approved by client to be purchased in hi-res from stock photo site and photo manipulated to match image style above. Site check required to confirm site condition and dimensions.

■ ACCENT WALL - OPEN OFFICE AND CORRIDORS (AW3)

Wall-mounted Graphics, open office and corridors - Floor 5

Wall Image theme: Neutral - Fog - Rain



AW3.1-WF-500

2800x6200 mm

Scale 1:50

Wall-mounted Acrylic Digital Printed Film, Opaque



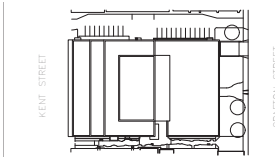
ACCENT FOG
PANTONE 430 C
5th Floor Accent
Colour

NORR

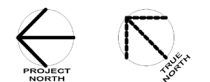
NORR Architects & Engineers Limited
An Ingenium Group Company

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key plan



project and true North



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revisions.	description	date

project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**ACCENT WALL -
OPEN OFFICE AND
CORRIDORS**

scale
As noted

project number.
ONBL17-0127

drawing no.
AW-26



RECOMMENDED IMAGES for:

AW3.1-WF-500
2800x9400 mm

AW3.2-WF-500:
2800x4200 mm



NOTE:
Graphic is not ready for production. Images approved by client to be purchased in hi-res from stock photo site and photo manipulated to match image style above. Site check required to confirm site condition and dimensions.

ACCENT WALLS (AW6) - STAIRWELL "E"

COLOUR THEME

5 Floor

4 Floor

3 Floor

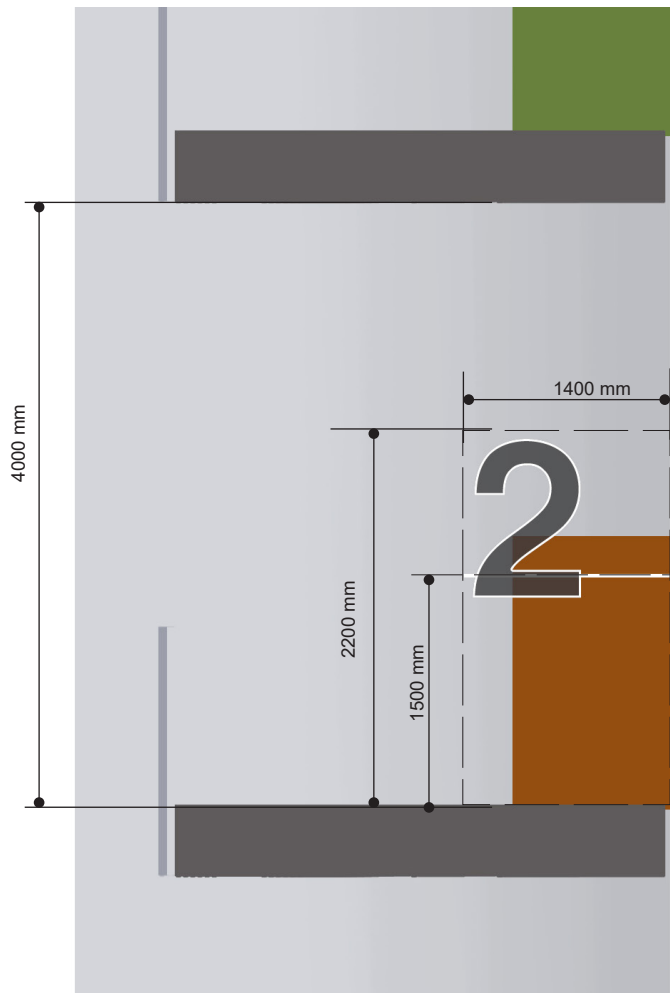
2 Floor

1 Floor

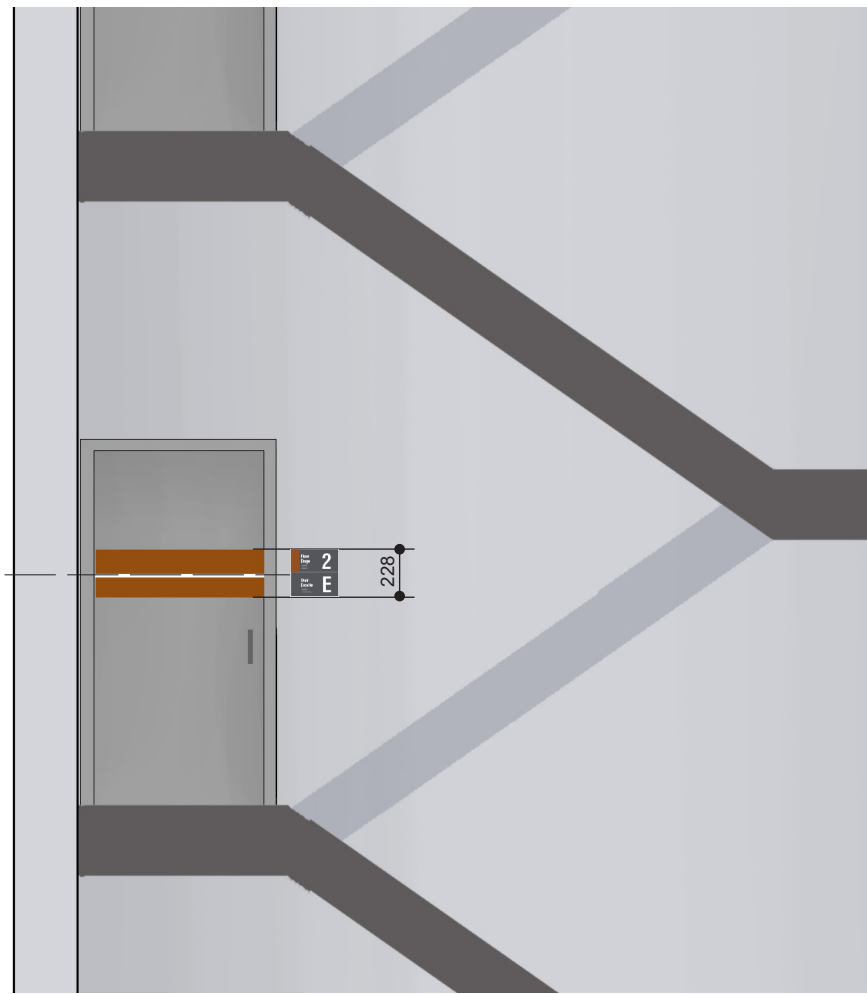
Basement

■ ACCENT WALL - STAIRWELL "E" (AW6)

Wall-mounted Graphics

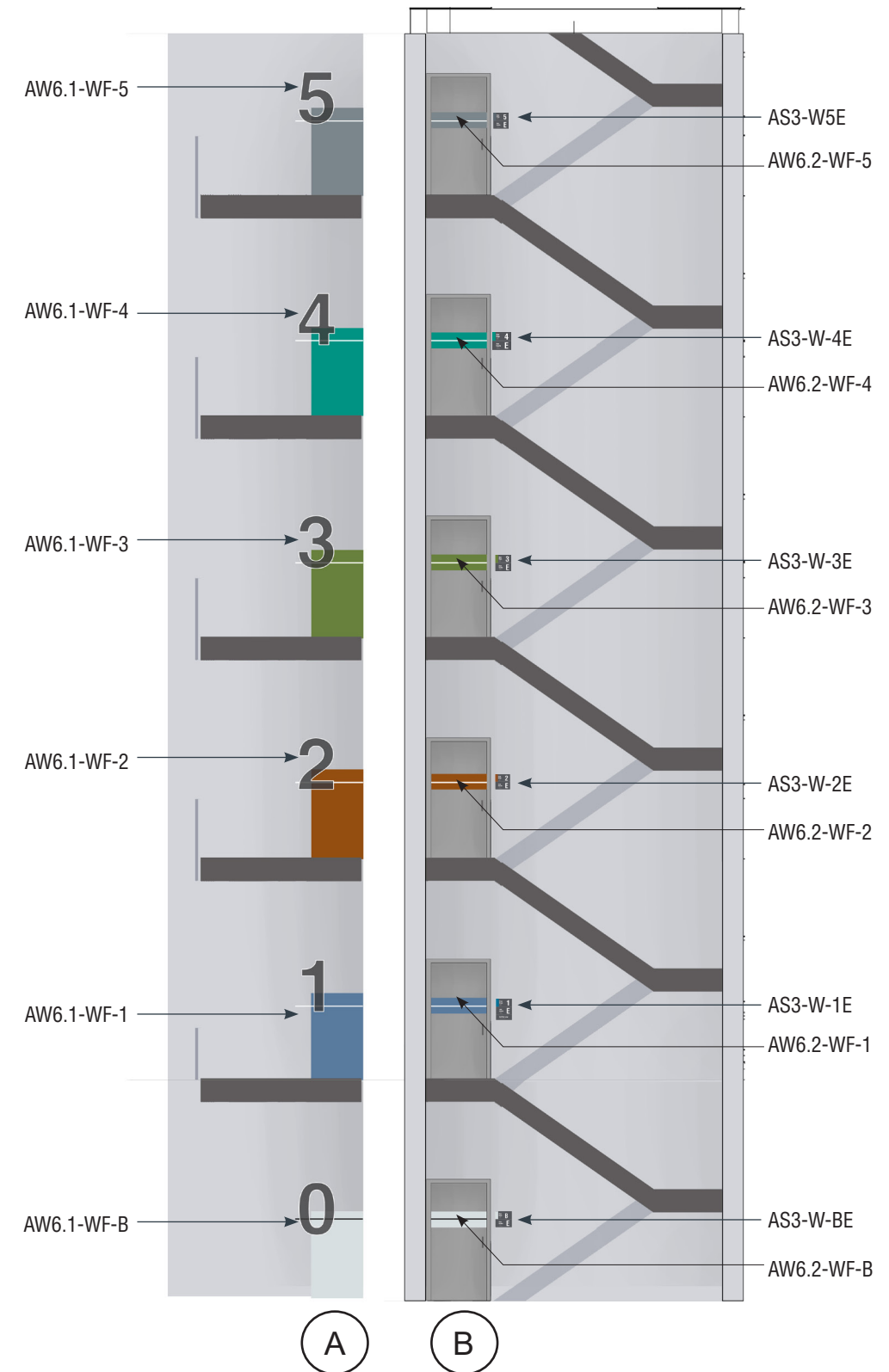


AW6.1

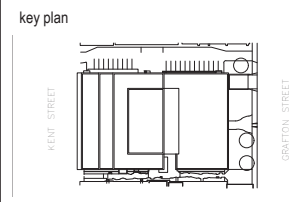
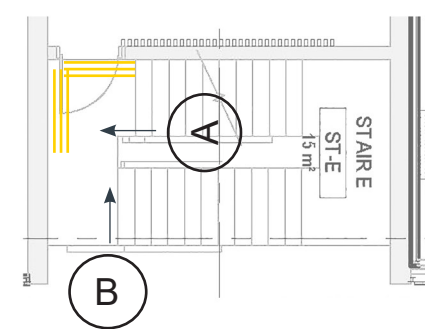


AW6.2

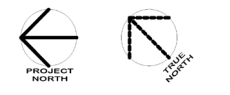
AW6
Scale 1:100
Wall-mounted Acrylic Digital Printed Film, Opaque



(A) (B)



project and true North



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project
DANIEL J MACDONALD MODERNIZATION
Charlottetown, P.E.I.

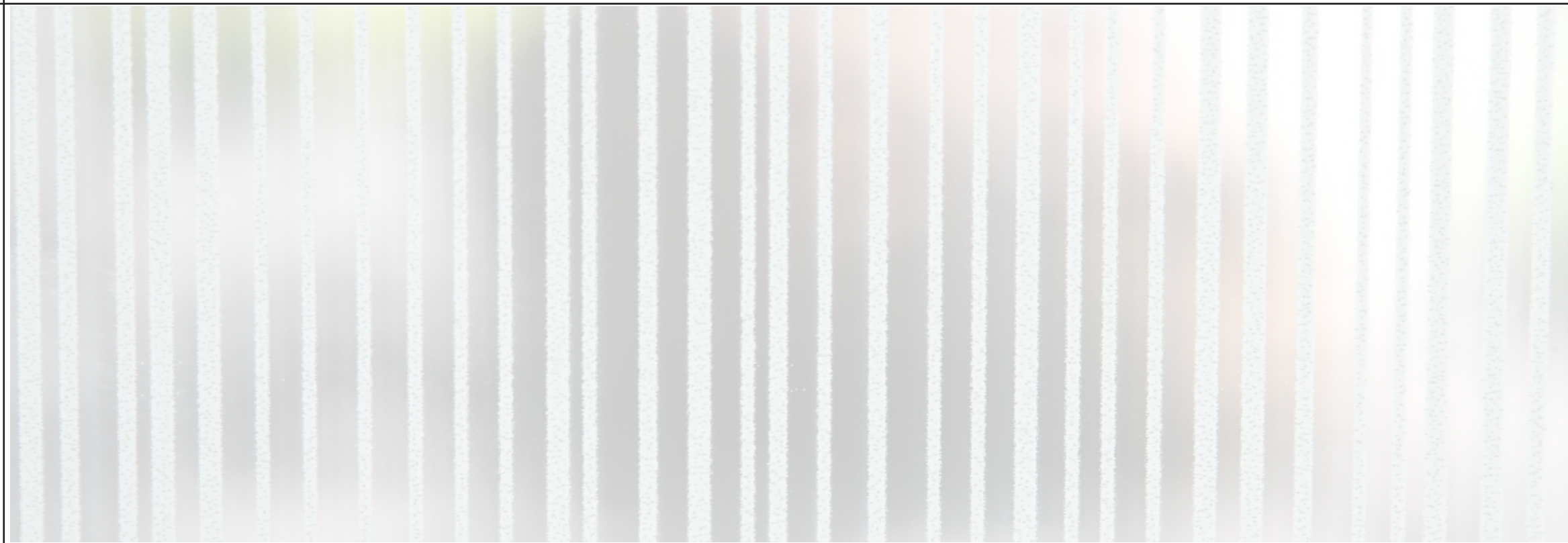
drawing
ACCENT WALL - STAIRWELL "E"

scale
As noted

project number.
ONBL17-0127

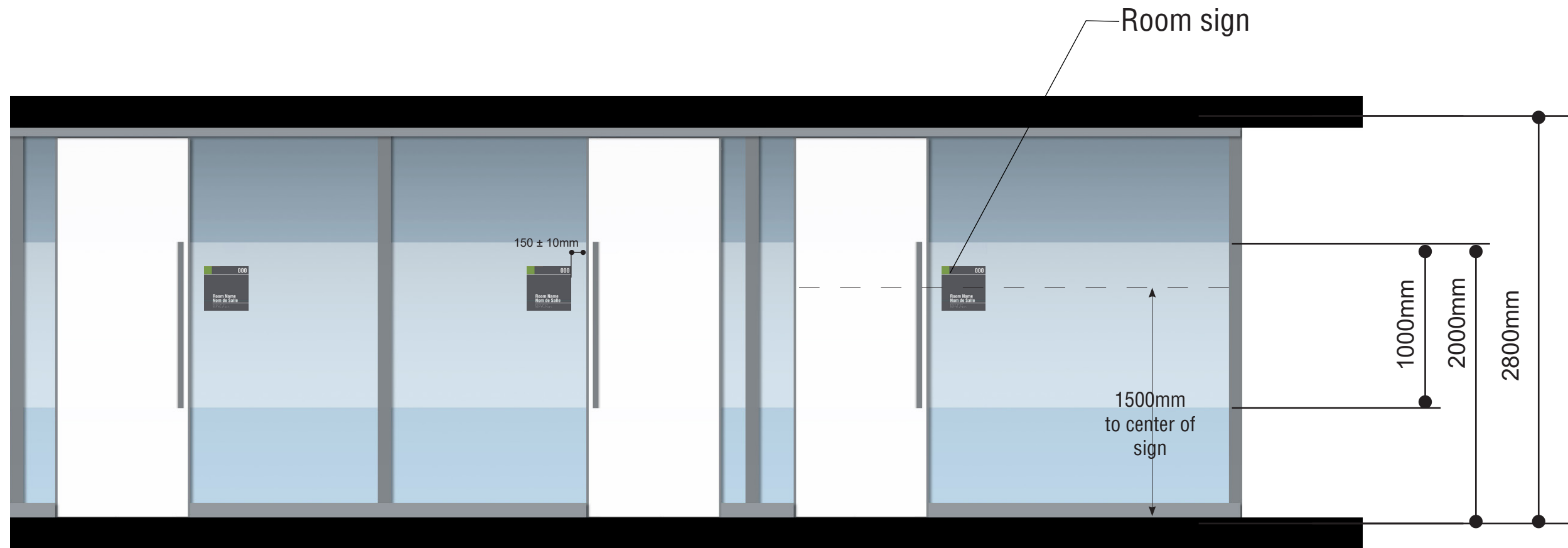
drawing no.
AW-28

GLASS PRIVACY SCREEN

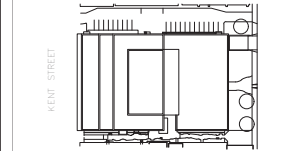


■ GLASS PRIVACY SCREEN (GS)

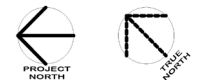
Glass-mounted film



key plan



project and true North



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project
**DANIEL J
MACDONALD
MODERNIZATION**
Charlottetown, P.E.I.

drawing
**GLASS
PRIVACY SCREEN**

scale
As noted

project number.
ONBL17-0127

drawing no.
AW-30

**Glass Privacy Screen
Front Elevation**

Scale 1:10
Self Adhesive Frosted Glass Film.