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**ADDENDUM NO. 3**

**Project No.** 122260

**Contract** RFT **Doc3398579373**

**Date** 2022-03-25

**TO:** ALL BIDDERS

**Owner** City of Toronto

**Project** Toronto Accessibility Upgrades – Group 29

**Location** Toronto, Ontario

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**1 Intent**

- 1.1 This Addendum is issued to provide for changes and clarifications during bidding.
- 1.2 Comply with previous Specifications and Drawings accompanying same, except as otherwise specified herein, or as shown on accompanying Drawings and/or sketches.
- 1.3 Bidders are required to take these Addendum items into account in preparing their Bid.

**2 Drawings And Other Documents**

- 2.1 Drawings which accompany and form part of this Addendum are listed in Section 00 01 15 - List of Drawing Sheets. The following Drawings are revised by reference as part of this Addendum but are not issued. The Drawings will be revised for Construction Issue of Contract Documents:

**3 Details**

**3.1 Specification Revisions**

- 3.1.1 Specification page(s) and/or section(s) listed below accompany and form part of this Addendum.

- 3.1.2 Each revised **section** voids and supersedes the previously issued section of the same number. Deletions are indicated by a strikethrough and revisions are double underlined. A page footer indicates the means of issue.

- 3.1.3 New section(s), revised section(s):

Section Number	Section Title
08 11 13	Hollow Metal Doors and Frames
10 14 00	Interior Signage
12 57 00	Furniture
22 42 00	Commercial Plumbing Fixtures

3.2	Drawing Revisions	Drawing Nos.
3.2.1	<b>255 Spadina – Archive and Records Centre</b>	
3.2.2	Added note indicating required wall patch and repair after removal of existing drinking fountain	G29-152-A2121
3.2.3	Added note to clarify the finish on the new wall	G29-152-A5012
3.2.4	<b>843 Palmerston Ave – St Albans Boys &amp; Girls Club</b>	
3.2.5	Added note indicating required wall patch and repair after removal of existing drinking fountain	G29-310-A2121
3.2.6	Added shower curtain and rod at Universal Change Room 108	G29-310-A5011
3.2.7	<b>301 Broadview Ave – Margaret’s Housing &amp; Community Support Services</b>	
3.2.8	Added shower curtain and rod at washroom	G29-176-A5011
3.2.9	<b>765 Queen St E – Ralph Thornton Community Centre &amp; Library</b>	
3.2.10	Addition of mobile pedestals at reception desk	G29-300-A5111
3.2.11	<b>840 Gerrard St E – Fire Hall No. 324</b>	
3.2.12	Addition of demolition note	G29-307-A1201
3.2.13	Addition of demolition note and other clarification notes	G29-307-A2111
3.2.14	New wall type and washroom wall construction details	G29-307-A5011
3.2.15	Vent hood Note	G29-307-A5211
3.2.16	<b>Signage Package for 765 Queen St E</b> Addition of signs and revisions to sign message	N/A

End of Addendum

1 General

1.1 **SUMMARY**

.1 Section Includes

- .1 Labour, Products, equipment and services necessary to complete the Work of this section.

1.2 **REFERENCES**

.1 Conform to the latest edition of the following:

- .1 ANSI/NAAMM HMMA-841 - Tolerances and Clearances for Commercial Hollow Metal Doors and Frames
- .2 ANSI/NAAMM HMMA-867 - Guide Specifications for Commercial Laminated Core Hollow Metal Doors and Frames
- .3 ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process
- .4 ASTM A924/A924M - Standard Specification for Steel Sheet, Zinc-Coated Galvanized or Zinc Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
- .5 ASTM D4726 - Standard Specification for Rigid PVC Exterior Profile Extrusions Used for Assembled Windows and Doors
- .6 CAN4-S104-M - Standard Method for Fire Tests of Door Assemblies
- .7 CAN4-S105-M - Standard Specification for Fire Door Frames Meeting the Performance Required by CAN4-S104
- .8 CSA W47.1 - Certification of Companies for Fusion Welding of Steel
- .9 CSA W59-M - Welded Steel Construction (Metal Arc Welding)
- .10 NFPA 80 - Standard for Fire Doors and Other Opening Protective
- .11 AODA - Accessibility for Ontarians with Disabilities Act

1.3 **SUBMITTALS**

.1 Shop Drawings

- .1 Submit in accordance with Section 01 33 00. Clearly show in detail, gauges of metal Work, assemblies, large screen frame sections and assembly details, fastenings, hardware cutouts and reinforcing, anchorage and finish.
- .2 Indicate doors and frames which are fire rated.
- .3 Submit manufacturer's Product data brochure as part of Shop Drawing submittal.

1.4 **COORDINATION**

- .1 Coordinate with finish hardware Supplier to ensure proper preparation of hollow metal doors and frames for finish hardware.

- .2 Coordinate with electrical division for doors requiring conduits.

## 1.5 **DELIVERY, STORAGE AND HANDLING**

- .1 Protect Work against rust and damage during manufacture and delivery. Handle carefully to prevent distortion and wracking.
- .2 Protect hollow metal Work from damage. Replace damaged Work which cannot be satisfactorily repaired, restored or cleaned. Store materials on site in a manner to prevent damage.

## 2 Products

### 2.1 **DESCRIPTION AND SOURCE MANUFACTURERS**

- ~~.1 Doors are of the insulated/sound deadened, steel stiffened type using the spot welding or adhesive method to attach face sheets to the rib stiffeners.~~
- ~~.2 Frames are of the welded type. Knockdown frames are not permitted.~~

#### .3.1 Source doors and frames from one of the following:

- .1 Fleming Door Products Limited
- .2 Artek Door
- .3 Baron Metal Industries
- .4 Daybar Industries Limited

### 2.2 **MATERIALS**

- .1 Sheet steel: Commercial grade sheet steel conforming to ASTM A653/A653M, with ZF75 zinc-iron alloy coating designation. Sheet steel thicknesses specified are base metal thicknesses prior to galvanizing.
- .4.2 Frame Anchors: Commercial grade steel conforming to ASTM A653/A653M, Type B with minimum G90 (Z275).

### 2.3 **HOLLOW METAL DOORS (AND TRANSOM PANELS)**

- .1 General: Provide 1-3/4" doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces without visible joints or seams on exposed faces unless otherwise indicated.
- .2 Exterior Doors:
  - .1 Medium duty: Insulated, polystyrene core. Minimum R-Value 2.6 in accordance with ASTM C1363 in thermally broken frame. Thermal performance maximum U-factor 0.39. Maximum 3-hour fire rating.
  - .2 Heavy duty: Insulated, stiffened hollow steel core with polyurethane insulation in accordance with ASTM C1029. Minimum R-value 3.4 in accordance with ASTM C1363 in thermally broken frame. Thermal performance maximum U-factor 0.29. Maximum 3-hour fire rating.

.3 Interior Doors:

.1 Medium duty: Manufacturer's standard kraft-paper honeycomb or one-piece polystyrene core, securely bonded to both faces.

.2 Heavy duty: Stiffened hollow steel core with mineral fibre semi-rigid blanket and batt insulation in accordance with ASTM C592 or ASTM C553, Type 1.

.4 Adhesive:

.1 Honeycomb core and steel components: Heat-resistant, spray grade resin reinforced neoprene/rubber based, low viscosity, contact cement meeting manufacturer's requirements and testing in accordance with UL/ULC certification requirements.

.2 Interlocking edge seams for honeycomb cores: Resin reinforced polychloroprene (RRPC), fire resistance, high viscosity, sealant/adhesive meeting manufacturer's requirements and tested in accordance with UL/ULC certification requirements.

.1.5 Facings, rails, stiles: 1.5 mm thick (16 ga) steel.

.2.6 Interior stiffeners: 0.91 mm thick (20 ga) steel.

.3.7 Sound deadening and insulating material: Semi-rigid fibreglass, 24 kg/m<sup>3</sup> 1.5 lb/cu.ft. minimum density, to fill core space.

.4.8 Top caps: Rigid PVC extrusions conforming to CGSB 41-GP-19Ma. Fire labelled exterior doors to have factory installed flush steel top caps.

.9 Glazing stops: 1.5 mm thick (16 ga) steel, formed, drilled and countersunk for fastenings.

2.4

**DOOR ACCESSORIES**

.1 Door louvres: Vee shaped sight tight, with double flat frames, with 40% minimum free area, of W25 galvanized steel sheet with manufacturer's standard shop primer finish in grey colour; Airvector "T20F", Kreuger "600A", K.N. Crowder "SDL V90", or M.W. McGill "DG 2000".

.2 Fusible link door louvres: 1.6 mm (16 ga) cold rolled steel, fire actuated fusible link closure mechanism, minimum 25% free louvre area, baked enamel finish in colour selected by Consultant, listed and bearing the mark of ULC or Warnock Hersey. Accepted manufacturers: E. H. Price, Airflow, or K.N. Crowder.

.3 Screws: Tamperproof stainless steel screws with countersunk flat head.

.4 Door bumpers: In accordance with ANSI/BHMA A156.16, Type 6-180, grey neoprene.

.2.5 Hardware reinforcement: 3.4 mm thick (10 ga) steel.

2.5

**HOLLOW METAL DOOR FRAMES**

.1 Steel: 1.5 mm thick (16 ga) steel.

.2 Hardware reinforcement: 3.4 mm thick (10 ga) steel.

.3 Channel door spreaders: 1.2 mm thick (18 ga) steel.

~~.2 — Glazed Screen and Borrowed Light Frames and Mullions~~

~~.1 — Steel: 1.5 mm thick (16 ga) steel.~~

~~.2 — Glazing stops: 1.5 mm thick (16 ga), formed, drilled and countersunk for fasteners.~~

~~.3 — Frame Anchors~~

~~.1 — Frames in masonry: Adjustable "T-strap" anchors and base anchor.~~

~~.2 — Frames in precast (concrete): Countersunk galvanized expansion bolts complete with base anchors, and spacers behind hollow metal frame.~~

~~.3 — Frames in steel channel sub-frames: Countersunk fluorocarbon coated self drilling screws complete with spacers behind hollow metal frame.~~

~~.4 — Labeled frames: To conform to ULC or Warnock Hersey requirements.~~

~~.5 — Frames in gypsum board partitions: Steel anchor clips and adjustable base anchors of suitable design securely welded inside each jamb.~~

~~.6 — Floor anchors: Minimum 3.5 mm thick adjustable hot-dip galvanized base anchors with two holes for bolting to floor.~~

~~.4 — Rubber bumpers: Glynn-Johnson GJ64.~~

~~.5 — Conduit in hollow metal frames: To CSA C22.2 No. 83-M. EMT galvanized cold rolled steel tubing.~~

~~.1 — Dutch door shelves: 1.5 mm thick (16 ga) steel, rolled bottom edges. Secure to door leaves on underside only, with no exposed fasteners. Exterior Frames: Fabricated or hot-dip zinc coated steel that complies with ASTM A653/A653M, coating designation G90.~~

~~.1 — Minimum 16-gauge thick steel sheet.~~

~~.2 — Thermal break frames: Tested for thermal performance in accordance with NFRC 100 and resistance to air infiltration in accordance with ASTM E283. Where indicated provide thermally broken frame profiles for use in both masonry and drywall construction. Fabricate with 1/16" positive thermal break and integral vinyl weatherstripping.~~

~~.2 — Interior Frames: Fabricated from cold-rolled steel sheet complying with ASTM A1008/1008M.~~

~~.1 — Minimum 16-gauge thick steel sheet.~~

~~.2 — Fire rated frames: Fabricate frames in accordance with NFPA 80 listed and labeled by a qualified testing agency for fire protection ratings indicated.~~

~~.3 — Frame jambs shall extend to surface of finish floor only. Provide frame jambs with 2-piece adjustable floor anchors.~~

~~.4 — Hardware reinforcement: Fabricate with reinforcement plates from same material as frames.~~

~~.5 — Conduit in hollow metal frames: To CSA C22.2 No. 83-M. EMT galvanized cold rolled steel tubing.~~

.3 **Frame Anchors**

- .1 Frames in masonry: Adjustable "T-strap" anchors and base anchor.
- .2 Frames in precast (concrete): Countersunk galvanized expansion bolts complete with base anchors, and spacers behind hollow metal frame.
- .3 Frames in steel channel sub-frames: Countersunk fluorocarbon coated self drilling screws complete with spacers behind hollow metal frame.
- .4 Labeled frames: To conform to ULC or Warnock Hersey requirements.
- .5 Frames in gypsum board partitions: Steel anchor clips and adjustable base anchors of suitable design securely welded inside each jamb.
- .6 Floor anchors: Minimum 3.5 mm thick adjustable hot dip galvanized base anchors with two holes for bolting to floor.

2.6 **LIGHT OPENINGS AND GLAZING**

- .1 Refer to Section 08 80 00 for glazing types and applications.
- .2 Stops and mouldings: Provide stops and mouldings around glazed lites where indicated. Form corners of stops and mouldings with butted or mitered hairline joints at fabricator's shop. Fixed and removable stops to allow multiple glazed lites each to be removed independently. Coordinate frame rabbet widths between fixed and removable stops with the type of glazing and installation indicated.
- .3 Mouldings for glazed lites in doors and loose stops for glazed lites in frames: Minimum 20 gauge, fabricated from same material as door face sheet in which they are installed.
- .4 Fixed frame mouldings: Formed integral with hollow metal frames, minimum 16 mm high unless otherwise indicated. Provide fixed frame mouldings and stops on outside of exterior and on secure side of interior doors and frames.
- .6.5 Preformed metal frames for light openings: Manufacturer's standard frame formed of cold rolled steel sheet with baked enamel or powder coated finish. Approved for use in doors of fire protection rating indicated. Match pre-finished door paint colour where applicable.

2.62.7 **FABRICATION**

- .1 Finish Work free from warp, open seams, buckles, weld and grind marks and other surface defects detrimental to attainment of a good paint finish in field. Form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations dictate, frames for large openings are to be fabricated in sections for splicing or splining in the field by others.
- .1.2 Arc weld joints in accordance with CSA W59-M to produce a finished unit, square, true and free of distortion. Continuous weld joints unless specified otherwise. Execute welding by a firm fully approved by Canadian Welding Bureau to requirements of CSA W47.1.
- .2 Accurately form profiles.
- .3 Perform all cutting in door fabricator's shop.
- .4.3 Ream and remove burrs from cutouts and from drilled and punched holes.

~~.5 Finish Work free from warp, open seams, buckles, weld and grind marks and other surface defects detrimental to attainment of a good paint finish in field.~~

~~.6.4~~ Doors that do not require labels shall have label holes properly filled at the factory prior to shipping to Site.

~~.7.5~~ Hollow Metal Doors and Transoms

~~.1~~ Doors: Flush swing type of sizes to details, schedules and reviewed Shop Drawings with cutouts for glass and grilles and reinforced to receive hardware fastenings.

~~.1~~ Blank, reinforce, drill and tap doors for mortised, template hardware. Where required, reinforce doors for surface-mounted hardware and door closers.

~~.2~~ Provide inverted, recessed, spot welded channels at top and bottom of doors. Provide PVC top caps on exterior doors.

~~.3~~ Provide cutouts with framing, glass stop mouldings and division bars where openings are required.

~~.4~~ Glass stops: Drill and countersink glass stops, secure with stainless steel tamper-proof flat head screws spaced at maximum 150 mm o.c. Provide stainless steel stops for stainless steel doors.

~~.5~~ Door seams:

~~.1~~ Laminated doors: Adhesive assisted lock seam.

~~.2~~ Steel stiffened doors: Continuous welded edges.

~~.2~~ Exterior Insulated Doors:

~~.1~~ Vertical edges:

~~.1~~ Vertical edges to be mechanically interlocked with hairline seam, continuously welded, filled and ground smooth full height of door.

~~.2~~ Top and bottom edges:

~~.1~~ Reinforced tops and bottoms of doors with continuous steel channel minimum 16 gauge, extending full width of door and welded to face sheet.

~~.2~~ Doors with inverted top channel to include steel top cap welded in place with web of channel flush with face sheets of door.

~~.3~~ Plastic or composite fillers shall not be used.

~~.3~~ Transoms: Fabricate from same materials and construction and finish in same manner as doors.

~~.6~~ Frames and Screens

~~.1~~ Welded frames: Weld flush face joints continuously. Grind, fill, dress and make smooth, flush and invisible.



- .1 Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping. Spreader bars are for bracing only and are not to be used to size the frame opening.
- .2 Furnish exterior door frames with continuously welded integral steel weather drip at head of frame.
- .2 Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
- .3 Floor anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
- .4 Where frames are set in masonry or concrete, supply adjustable anchors to trade installing frame.
- .5 Fabricate frames for installation in gypsum board partitions with steel anchors. Minimum number of anchors for each jamb is as follows:
  - .1 4 anchors for frames up to 2285 mm.
  - .2 5 anchors for frames from 2285 mm to 2440 mm.
  - .3 5 anchors, plus one additional for each 600 mm over in height for frames over 2440 mm.
- .6 Frames in previously placed concrete, masonry, precast or structural steel: Anchors located at maximum 150 mm from top and bottom of each jamb, and intermediate anchors at maximum 660 mm o.c.
- .7 Prepare each door opening for single stud rubber door silencers. Three for single door openings located in strike jamb and two for double door openings located in head.
- .7 Thermally broken door frames:
  - .1 For conditions where extreme temperature differences occur, use thermally broken commercial knocked-down or welded steel frames to decrease thermal conductivity.
  - .2 Manufactured from 16 gauge paintable galvanized steel.
  - .3 171.4 mm jamb depth.
  - .4 Where thermally broken welded frame is required, ensure welds do not cause thermal transfers between interior and exterior surfaces of frame sections.
  - .5 Fabricate interior and exterior sections of thermally broken frames with continuous PVC thermal break separation.
  - .6 Thermally broken sections shall not be assembled with screws, grommets or other fasteners.
  - .7 Closed sections (mullions and centre rails) of thermally broken frames to be factory insulated with 24 kg/m<sup>3</sup> of loose batt type fiberglass material.

.8 Fire Rated Doors and Frames

- .1 Fabricate doors and frames for hourly rating noted on door schedules in conformance with CAN4 S104-M and CAN4 S105-M. Furnish door and frames with the appropriate label of a testing organization accredited by Standard Council of Canada in conformance with the foregoing standards.
- .2 Label the entire assembly of fire rated screens containing doors.
- .3 Locate fire rating label on doors on hinged edge midway between top hinge and head of door. Locate fire rating label on frames in door rebate.
- .4 Mortise, reinforce, drill and tap doors to receive template hardware and reinforce for surface mounted hardware, all as per requirements of foregoing standards.

.9 Temperature Rise Limit

- .1 Where located in a firewall, fabricate doors to achieve the Temperature Rise Limit (TRL) indicated in the Ontario Building Code.
- .2 Provide such doors with a combined fire rating/temperature rise limit label. Locate as previously specified.

.10 Insulated hollow metal transom panels: Same as for hollow metal door construction complete with drip flashings on exterior panels.

.11 Preparation for security system: Hollow metal doors will be monitored to a central security system as indicated on Drawings. Prepare frames and doors to accommodate concealed rotary switch hinge (C.R.S.) at the centre hinge point. Provide frame with metal mortar guard at back side of hinge and with a 19 mm diameter rigid galvanized steel conduit from top of mortar guard to 300 mm above door head.

~~.12 — Masonry anchors: Fit specified anchors into frames. Furnish number of anchors on each jamb as follows:~~

- ~~.1 — Frames up to 2285 mm height: Three "T" anchors.~~
- ~~.2 — Frames 2285 mm to 2440 mm height: Four "T" anchors.~~
- ~~.3 — Frames over 2440 mm height: One "T" anchor for each 600 mm or fraction thereof of height.~~

~~.13 — Stud wall anchors: Fit specified anchors into frames. Furnish number of anchors for each jamb as follows:~~

- ~~.1 — Frames up to 2285 mm height: Four anchors.~~
- ~~.2 — Frames 2285 mm to 2440 mm height: Five anchors.~~
- ~~.3 — Frames over 2440 mm height: Five anchors plus one additional for each 600 mm or fraction thereof over 2440 mm.~~

3 Execution

3.1 EXAMINATION

- .1 Verify condition and dimension of previously installed Work upon which the is Section depends.

.2 Check area of floor on which the frame is to be installed and within the path of swing for flatness.

.3 Commencement of Work means acceptance of existing conditions.

### 3.13.2 **INSTALLATION**

.1 Building-in of hollow metal frames in masonry is specified in Section 04 22 00 - Concrete Unit Masonry.

.2 Setting of hollow metal frames: ~~is specified in Section 06 20 00 – Finish Carpentry.~~

.1 Erect door frames, (glazed screen and borrowed light frames) plumb, square and level, maintaining widths and heights.

.2 Brace frames solidly in position while being built into masonry. Install temporary wood spreaders at mid-height of door frames, full width, until adjacent masonry Work is complete.

.3 Pack the door jamb and head voids which occur in exterior walls with specified insulation.

.4 Tap structural steel to coincide with fastener spacing on hollow metal door frame. Place spacer at each fastener location and install fastener.

~~.4.5~~ Tighten fastener, with head flush to frame. Apply metal filler to fastener head. Sand filler flush to frame and prepare for paint finish

.3 Installation of doors and finish hardware is specified in Section 08 71 05 - Installation of Doors and Finish Hardware.

.4 Door Hardware and Painting

.1 Install door hardware supplied by Section 08 71 00 - Finish Hardware.

.2 Install door hardware in accordance with hardware templates and manufacturer's written instructions.

.3 Install louvres, glazing and silencers.

~~.2.4~~ Finish paint in accordance with Section 09 91 00 Painting.

End of Section

1 General

1.1 **SUMMARY**

.1 Section Includes

- .1 Labour, Products, equipment and services necessary to complete the Work of this section.
- .2 Work includes, but is not necessarily limited to, the following:
  - .1 Sign graphics
  - .2 Cut-out letters
  - .3 Wall plates
  - .4 Door plates
  - .5 Number plates
  - .6 Barrier-free signage plates
  - .7 Signage at magnetic locked doors
  - .8 Project Information signage for public buildings

1.2 **REFERENCES**

.1 Conform to the latest edition of the following:

- .1 ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
- .2 ASTM B32 - Standard Specification for Solder Metal
- .3 ASTM B456 - Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium
- .4 - Aluminum Association Designation System for Aluminum Finishes
- .5 CAN/CSA-G164 - Hot Dip Galvanizing of Irregularly Shaped Articles
- .6 CSA W47.2 - Certification of Companies for Fusion Welding of Aluminum
- .7 CSA W59-M - Welded Steel Construction (Metal Arc Welding)
- .8 CAN/CGSB-1.108 - Bituminous Solvent Type Paint
- .9 CGSB 41-GP-6M - Sheets, Thermosetting Polyester Plastics, Glass Fiber Reinforced
- .10 CSA - Canadian Standards Association
- .11 CNIB - Canadian National Institute for the Blind

.12 AODA - Accessibility for Ontarians with Disabilities Act

1.3 **SUBMITTALS**

.1 Shop Drawings

- .1 Submit Shop Drawings in accordance with Section 01 33 00.
- .2 Submit Shop Drawings and catalogue sheets.
- .3 Indicate materials, thicknesses, sizes, finishes, colours, construction details, removable and interchangeable components, mounting methods, schedule of signs.
- .4 Submit full size templates drawn-to-scale details for individually fabricated (or incised) lettering indicating word and letter spacing.

.2 Samples

- .1 Submit samples in accordance with Section 01 33 00.
- .2 Submit sample of each type sign, sign image and mounting method.

1.4 **QUALIFICATIONS**

- .1 Manufacturer of signs shall be specialist in this field having minimum five years proven experience in sign manufacturing and installation of each type of signs specified.

1.5 **MAINTENANCE DATA**

- .1 Provide maintenance data for signs for incorporation into manual specified in Section 01 33 00.

2 Products

2.1 **MATERIALS**

.1 Acceptable manufacturers:

- .1 Forward Signs Inc.
- .2 Approved alternative

.2 Source sign fabrication made by one manufacturer from one of the following:

- ~~.1~~ .1 [Spectra Advertising](#)
- ~~.4.2~~ .2 [Neon Products Ltd.](#)
- ~~.2.3~~ .3 [Steel Art Signs Ltd.](#)
- ~~.3.4~~ .4 [Imperial Sign Ltd.](#)

- .3 Aluminum extrusions: Aluminum Association alloy AA 6063-T5, minimum 2 mm thick, free from scratches and surface blemishes.
- .4 Sheet aluminum: Aluminum alloy AA6063-T5, minimum 0.75 mm thick for exposed work requiring finish to match extruded Sections.

- .5 Prefinished sheet aluminum: Plain sheet with manufacturer applied baked enamel finish to Aluminum Association designation AA-M22-C22-A41 (clear) or AA-M22-C22-A42 (black) 0.25 mm thick on face and 0.0076 mm thick on back.
- .6 Prefinished sheet steel: Conforming to Canadian Steel Sheet Building Institute Bulletin finished with Z275 zinc coating in accordance with CSSBI Standards and prepainted as follows:
  - .1 Finish: Coil coated, baked-on, 70% Kynar 500 or Hylar 5000 based fluoropolymer enamel, 10000 Series by Stelco Inc., or Dofasco Inc. on exposed surfaces as applied by Baycoat. Coil coated surfaces pretreated and primed prior to application of coating. Paint colour: As selected by Consultant.
- .7 Galvanized steel sheet: Commercial quality to ASTM A653/A653M, GRADE A, with zinc coating designation.
- .8 Acrylic sheet: Polymethylmethacrylate (PMMA) cast sheet suitable for intended use in sign fabrication, (translucent white) (transparent clear) (colours as indicated).
- .9 Fiberglass sheet: To CGSB 41-GP-6M, flat sheet, smooth finish, colours as indicated.
- .10 Engraving sheet: Lamicoid 3.2 mm thick plastic sheet, (black) (white) core.
- .11 Welding materials: To CSA W59.
- .12 Solder: To ASTM B32.
- .13 Self-stick foam tape: Minimum 1.6 mm thick, 352.4 kg/m<sup>3</sup> density polyurethane open-cell foam tape for sign purposes, with synthetic self-stick adhesive on both sides. Width to suit sign sizes.
- .14 Adhesives, paints, sealants and solvents for acrylic and fiberglass sheet: Type recommended by sheet manufacturer for applicable condition.
- .15 Acrylic topcoat: Clear, non-yellowing, exterior grade, satin finish, acrylic polyester resin protective coating, compatible with (acrylic) (fiberglass) (metal) surface of type recommended by sheet manufacturer.
- .16 Bituminous paint: To CAN/CGSB-1.108, Type 2.

## 2.2 **FINISHES**

- .1 Anodized Aluminum
  - .1 Clear finish: Conform to Aluminum Association designation AA-M22-C22-A41 in uncoloured anodized finish with film thickness of 0.25 mm.
  - .2 Colour finish: Conform to Aluminum Association designation AA-M22-C22-A42 to match sample.
- .2 Galvanized finish: On irregular shaped articles, 600 g/m<sup>2</sup> zinc coating to CAN/CSA G164.
- .3 Chrome and nickel plating: To ASTM B456, satin finish.
- .4 Prefinished metals: As specified herein.
- .5 Bronze finishes: To match sample.

## 2.3 **GENERAL FABRICATION REQUIREMENTS**

- .1 Fabricate signs in accordance with details on Drawings, Specifications and Shop Drawings to present a safe and rigid installation.
- .2 Build units square, true, accurate to size, free from visual or performance defects.
- .3 Accurately fit and securely join sections to obtain tight, closed joints.
- .4 Allow for thermal movement without distortion of components.
- .5 Do not use exposed fasteners unless indicated otherwise on Drawings, and shall be inconspicuous and same finish and colour as base metal on which they occur.
- .6 Polish exposed edges of plastic and metal to smooth, slightly convex profile.
- .7 Do steel welding to CSA W59 aluminum welding to CSA W47.2 Finish exposed welds flush and smooth.
- .8 Brush-apply bituminous paint to aluminum in contact with dissimilar metals, concrete or masonry.
- .9 Do not locate manufacturer's nameplates on sign surfaces visible in completed work.
- .10 Letters shall be as indicated otherwise on Drawings, and be clear cut and free from ragged or indistinct edges.

## 2.4 **SIGN GRAPHICS**

- .1 Sign graphics to be well defined, arranged for balanced appearance, and properly word- and letter-spaced. Acceptable manufacturers for computer cut graphics:
  - .1 System Graphics
  - .2 Alpine Graphics Productions
  - .3 Autograph Trim
  - .4 Canada Decal Inc.
- .2 Silk screen process: Apply colour photographic produced silk screen printed images to (face) (back) side of transparent sign faces; face side of opaque sign faces.
- .3 Engraving: Apply sign text using pantograph mechanical engraving machine to obtain incised (paint-filled) letters.
- .4 Self-stick vinyl film: Individual letters, numerals and symbols cut from 0.1 mm thick matte finish, exterior grade PVC film, with self-stick adhesive backing. Colour selected by Consultant from manufacturer's standard range.
- .5 Decals: Silk screened or printed images on minimum 0.025 mm, clear matte finish, PVC film, with self-stick adhesive backing. Protect image subject to abuse with laminated film overlay of same material as decal base.

## 2.5 **CUT-OUT LETTERS**

- .1 Cut letters and symbols from (opaque) (translucent) (coloured acrylic) (plain) (embossed) (aluminum sheet).

- .2 (Helvetica) typeface, upper (and lower) case; sizes and thicknesses as indicated. Make corners (cutter radius) (square cut).
- .3 Fabricate aluminum with (clear) (colour) anodizing) (baked enamel) finish.

## 2.6 **WALL PLATES**

- .1 Plastic Wall Plates
  - .1 Fabricate from (clear) (colour) (acrylic sheet) (fibreglass) minimum 3.2 mm thick. Sizes as indicated.
  - .2 Sign graphics: Apply by silk screen paint filled, engraving or self-stick vinyl film letters.
- .2 Metal Wall Plates
  - .1 Fabricate from (extruded) (sheet) aluminum sign plates, minimum 3.2 mm thick, with (clear) (colour) anodized) (baked enamel) finish. Sizes as indicated.
  - .2 Sign graphics: Apply by (silk screen), (engraving) or (self-stick vinyl letters).
- .3 Interchangeable mounting: Supply wall plates with semi-concealed, retaining holders that permit quick but vandal-resistant interchange of sign face. No exposed fasteners permitted. Exposed portions to match sign face.
- .4 Fixed mounting: Prepare wall plates for fixing by surface fasteners with rosette covers concealed tamperproof clips to self-stick foam tape. Include back-up plates for fixing to uneven surfaces where required.
- .5 Bracket mounting: Fabricate brackets for wall projecting or ceiling suspended sign plates as detailed: of (clear) (white translucent) acrylic (clear) (coloured) anodized aluminum finish, 4.8 mm thick.

## 2.7 **DOOR PLATES**

- .1 Fabricate sign faces of (clear) (colour) (acrylic sheet) (fiberglass) (sheet) (extruded) (clear) (colour) anodized aluminum. Sizes and thickness as indicated on Drawings.
- .2 Sign graphics: Apply by (silk screen) (engraving) (self-stick vinyl letters).
- .3 Interchangeable mounting: Supply door plates with semi-concealed, retaining holders that permit quick but vandal-resistant interchange of sign face. No exposed fasteners permitted. Exposed portions to match sign face.
- .4 Fixed mounting: Use self-stick foam tape.
- .5 Mounting on transparent surfaces: Use self-stick foam tape. Include blank back-up plate for opposite side.
- .6 Washroom pictographs: Cut-out figures without backgrounds.

## 2.8 **NUMBER PLATES**

- .1 Fabricate number plates for (columns) (doors) (windows) of engraving sheet. Size as indicated on Drawings.
- .2 Engrave 9.5 mm high, single line numerals incised to expose contrasting coloured core.



2.9 **BARRIER-FREE SIGNAGE PLATES**

- .1 3D-graphics signs for the visually impaired, the Barrier-Free Act, building codes and CNIB and CSA recommendations. Minimum description:
  - .1 Raised letters, Grade 2, Braille and graphics system on injection moulded acrylic, styrene or polycarbonate substrate and protected with a non-glare, matt finish.
  - .2 Double sided tape mounting.
  - .3 Colours as selected by the Consultant.
- .2 Washroom Door
  - .1 Tactile type universal male or female symbol and a universal barrier-free symbol on a dark coloured 150 mm wide x 150 mm high square.
  - .2 Braille signs under the universal symbols, within the square.
  - .3 Tactile type bilingual text (Men-Hommes) or (Women-Femmes) under the dark coloured square.
- .3 Stair Shaft
  - .1 The sign is to be multi-layer process consisting of substrate, laminating adhesive, background film, profile film, test film and top film.
  - .2 Location: Mounted on wall on the latch side of doors leading to stair shafts.
- .4 Handrails
  - .1 150 mm long high contrast handrail wayfinding sign with Braille and 25 mm wide hazard strip on either side of the sign to be 200 mm in total length indicating the stair number and floor/level number.
  - .2 Location: On centre within the extension piece of the handrail.
  - .3 Colour: as indicated on Drawings.
  - .4 Acceptable Manufacturer:
    - .1 Atec Signs Inc.
    - .2 or accepted equal.

2.10 **SIGNAGE AT MAGNETIC LOCKED DOORS**

- .1 Aluminum plate with the following text engraved in Helvetica typeface, 25 mm high: "EMERGENCY EXIT, UNLOCKED BY FIRE ALARM".
- .2 Paint plate with one colour. Paint engraved text with a contrasting colour. Paint to be baked enamel finished.
- .3 Colours as selected by Consultant.

2.11 **PROJECT INFORMATION SIGNAGE FOR PUBLIC**

- .1 Refer to Section 10 14 00.01 City of Toronto Construction-Improvement Signs for information on the standard template to be used for projects accessible to the public.

3 Execution

3.1 **INSTALLATION**

- .1 Erect and secure signs plumb and level at elevations.
- .2 Comply with sign manufacturer's installation instructions and approved Shop Drawings.
- .3 Mechanical Attachment
  - .1 Apply signage to concrete or solid masonry with lag screws and expansion bolts or screws.
  - .2 Apply to hollow masonry with toggle bolts or equivalent.
  - .3 Secure behind stud walls or above ceilings into framing members.
  - .4 Mechanical fasteners shall be non-staining, non-ferrous type.
  - .5 Fabricate special fasteners as required for installation conditions.
- .4 Adhesive attachment: Use self-stick adhesive foam tape to manufacturer's instructions to adequately fix sign and prevent "rocking". Keep tape maximum 1.6 mm from edges.

3.2 **CLEANING**

- .1 Leave signs clean and polish all exposed surfaces.
- .2 Touch up any damaged finishes.

End of Section

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- 1 General
- 1.1 **SECTION INCLUDES**
  - .1 Labour, Products, equipment and services necessary to complete the Work of this section.
- 1.2 **QUALITY ASSURANCE**
  - .1 Workmanship shall be of highest quality, in accordance with best standard practice for installation of this type of furniture. Execute Work in accordance with drawings, Specifications, and manufacturer's printed directions.
- 1.3 **SUBMITTALS**
  - .1 Shop Drawings
    - .1 Submit Shop Drawings for the fabrication and installation of Work of this section for review in accordance with Section 01 33 00.
    - .2 Show and describe items, dimensions, finishes, installation details, anchors and fastenings, details of furniture construction and related work, and location of each furniture unit.
      - .1 Reception Desk
        - .1 Contractor shall submit Shop Drawings indicating thicknesses, profiles, supports, all connections details and description of components used in the assembly. Shop Drawings shall bear the seal and signature of a Professional Structural Engineer licensed in the Province of Ontario.
- 1.4 **DELIVERY, HANDLING AND STORAGE**
  - .1 Handle components with care and provide protection for surfaces against marring or other damage. Ship and store members with cardboard or other resilient spacers between surfaces. Use lifting chokers of material which will not damage surface of steel members.
- 1.5 **ASSIGNED FURNITURE WORK**
  - .1 The City of Toronto's furniture vendors shall supply, deliver to Site and install furniture based on "generic" furniture layouts and a furniture and equipment schedule.
  - .2 The City's furniture vendor will be assigned to the Contractor. It will be the Contractor's responsibility to:
    - .1 Confirm orders
    - .2 Schedule and coordinate deliveries of various furniture items
    - .3 Provide supervision and oversee installation
    - .4 Store as required
    - .5 Provide security
    - .6 Provide all required voice/data/power connections

- .7 Clean and polish furniture

## 1.6 **UNASSIGNED FURNITURE WORK**

- .1 Any furniture not supplied by the City of Toronto's furniture vendors and shown on the Drawings are to be Provided by the Contractor.
- .2 The City of Toronto may supply stored furniture to be installed by the Contractor.
- .3 In addition to the above, it will be the Contractor's responsibility to:
  - .1 Confirm orders
  - .2 Schedule and coordinate deliveries of various furniture items
  - .3 Provide supervision and oversee installation
  - .4 Store as required
  - .5 Provide security
  - .6 Provide all required voice/data/power connections
  - .7 Clean and polish furniture.

## 2 Products

### 2.1 **OUTDOOR FURNITURE**

- .1 Outdoor furniture is to be supplied and installed by the General Contractor.
- .2 Picnic Table: 1828.8 mm long accessible picnic table with a 2438.4 mm extended table top to allow for accessible seating. Frame shall be black zinc-plated powder coated steel. The frame shall comply with AODA standards. Finish of table top shall be walnut.
  - .1 Acceptable Manufacturer: "Accessible V Frame" by Classic Displays
  - .2 Or accepted equal.
- .3 Outdoor Bench (armless): 1778 mm long x 840 mm high and a total width of 648 mm. Seat height shall be 457 mm. Made of IPE wood slats machined and grooved with a preservative oil. Front and back boards shall be rolled. Bench components are hot dip galvanized with black, metallic silver or metallic grey powder coat finish.
  - .1 Acceptable manufacturer: "2300 Series" by Maglin Site Furniture.
  - .2 Or accepted equal.

### 2.2 **INDOOR FURNITURE**

- .1 Furniture shall come with attachments, brackets, hardware, etc required to be fully assembled and functioning per the manufacturer's instructions.
- .2 Colour chart and finishes for all items specified shall be submitted to the Consultant for selection in accordance with 1.3 Submittals.
- .3 Reception Seating: Fixed base wall-mounted seat. Finish: Birch plywood with a fixed silver metal base. Fabric shall be anti-microbial vinyl, "Whisper Series WHI-2157 FOG" (light grey).

- .1 Acceptable Manufacturer: "Jumpseat 90" by Sedia Systems.
- .2 Or accepted equal.
- .4 Reception Seating: Fixed base floor-mounted seat. Finish: Birch plywood with a fixed silver metal base with armrests. Fabric shall be anti-microbial vinyl, "Whisper Series WHI-2157 FOG" (light grey).
  - .1 Acceptable Manufacturer: "Jumpseat" by Sedia Systems.
  - .2 Or accepted equal.
- .5 Reception Desk
  - .1 Table: Rectangular height adjustable worksurface with extended electric, laminate finish, no cut outs. Sizes as indicated on Drawings.
  - .2 Extended Corner Table: Height adjustable extended corner worksurface with extended electrical, laminate finish. Sizes as indicated on Drawings.
  - .3 Table Base: Freestanding, electric height adjustable table base with extended range electric, standard foot, C-leg style, display with up/down memory.
  - .4 Pedestal: Freestanding standard 3-drawer and 4-drawer full extension filing cabinet with laminate finish and shall include hanging file bars, counterweight and lock and keys. Drawer configuration shall be made to be changed or retrofitted at any time. Sizes and finishes to be approved by the Owner.
  - .5 Task Chair: Dual upholstery tilt task chair, no headrest, width and height adjustable T-arms on caster wheels, fully assembled.
- .6 Workstations – Option #1:
  - .1 Table:
    - .1 Straight corners and seamless laminate finish, electric height adjustable base, display with up/down memory, undersurface cable management with 3 dual plastic trays and power bar and diamond shaped rectangular cutout in the center of the table for grommet.
    - .2 Rectangular corner height adjustable worksurface with extended electric, laminate finish, no cut outs. Sizes as indicated on Drawings.
    - .3 Extended Corner Table: Height adjustable extended corner worksurface with extended electrical, laminate finish. Sizes as indicated on Drawings.
  - .2 Table Base:
    - .1 Freestanding, electric height adjustable table base with extended range electric, standard foot, C-leg style, display with up/down memory.
    - .2 T leg with 2 x post legs standard with up/down switch style.
  - .3 Lateral Screen: 10 mm or 12 mm tempered glass lateral screen attaching to the worksurface. 42" h x 29" d with frost finish or as indicated on Drawings.
  - .4 Desk Edge Screen: 10 mm or 12 mm etched tempered glass with frost finish, 13" h x 58" w or as indicated on Drawings. Total height of the screen is 19" and

bracket shall be mounted so that 6" sits below the worksurface and 13" is above the worksurface.

- .5 Monitor Arm: Fully adjustable single arm, monitor mounting hardware and wire management to support 5-12 pounds. Height adjustment range of 10", tilt adjustment of 135°, monitor swivel of 180° and positions in landscape or portrait. Arm reach and clamp shall include integrated wire management.
- .6 Power Station: Desk edge clamped, 4 power, and 1 data port. Plug-in type with 10' cord.
- .7 Pedestal: 2- drawer mobile solid storage cabinet with laminate finish, 18" d x 22" h. Pedestals shall be keyed alike.
- .8 Task Chair: Dual upholstery tilt task chair, no headrest, width and height adjustable T-arms on caster wheels, fully assembled.

.7 Workstations – Option #2:

- .1 Table: 29" d x 58" w table with straight corners and seamless laminate finish, electric height adjustable base, display with up/down memory, undersurface cable management with 3 dual plastic trays and power bar and diamond shaped rectangular cutout in the center of the table for grommet.
- .2 Lateral Screen: User-adjustable framed fabric lateral screen, 51" h x 29" d or as indicated on Drawings.
- .3 Framed Desk Edge Screen: Upholstered framed fabric screen, to match the width of the worksurface. Partial modesty height of 23", datum height 51" and 58" wide or as indicated on Drawings.
- .4 Monitor Arm: Fully adjustable single arm, monitor mounting hardware and wire management to support 5-12 pounds. Height adjustment range of 10", tilt adjustment of 135°, monitor swivel of 180° and positions in landscape or portrait. Arm reach and clamp shall include integrated wire management.
- .5 Power Station: Desk edge clamped, 2 power, 2 USB ports and 1 data port. Plug-in type with 10' cord.
- .6 Pedestal: 2- drawer mobile solid storage cabinet with laminate finish, 18" d x 22" h. Pedestals shall be keyed alike.
- .7 Task Chair: Dual upholstery tilt task chair, no headrest, width and height adjustable T-arms on caster wheels, fully assembled.

2.3 **CUSTOM MILLWORK**

- .1 Custom fabricated millwork in accordance with the Drawings.

- .1 Acceptable Manufacturers:
  - .1 Svend Nielsen
  - .2 Spectrum
  - .3 Ell-Rod
  - .4 Or accepted equal.

2.4           **GENERAL FABRICATION REQUIREMENTS**

- .1       For shop welding conform to the requirements of CSA W59.1. Have work done by a firm fully certified according to CSA W47. All welders employed in the field shall be qualified as Class "O" as defined in CSA W47.
- .2       Make Work in true planes with adequate fastenings. Build and erect Work plumb, true, square, straight, level and accurate to sizes detailed, free from distortion or defects detrimental to appearance or performance.
- .3       Grind exposed welds flush and smooth to match adjacent surfaces.

3           Execution

3.1          **INSTALLATION**

- .1       Install furniture in accordance with manufacturer's instructions.
- .2       Use only workers skilled in the Work of this section. Do Work to best standard practice.
- .3       Fit and assemble Work in shop where possible. Execute Work according to details and reviewed Shop Drawings. Where shop fabrication is not possible, make trial assembly in shop.

3.2          **CLEANING**

- .1       Promptly as Work proceeds and upon completion, clean up and remove from the site on a daily basis, all rubbish and surplus materials resulting from Work under this section.
- .2       On completion, touch up marred or abraded finished surfaces.
- .3       Wipe down surfaces to remove fingerprints and markings and leave in clean conditions to the satisfaction of the Consultant.
- .4       To prevent damage to finishes, clean surfaces of furniture with cleaners recommended by the manufacturer.

End of Section



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1 General

1.1 **SUMMARY**

.1 Section Includes

.1 Products, equipment and services necessary to complete the Work of this section.

.2 General Requirements

.1 The following products will be supplied by NEXT Plumbing Supply (NPS):

.1 Lavatories

.1 L1

.2 L1H (Barrier Free Use)

.3 L1R (Regular Use), except wall mounting carrier

.4 L2H (Barrier Free Use)

.5 L3H (Barrier Free Use)

.6 L3R (Regular Use), except wall mounting carrier

.2 Urinals

.1 U1H

.3 Water Closets

.1 W1

.2 W1H

.3 W2

.4 W2H

.5 W3

.6 W3H

.2 As part of the Shop Drawing submittal, Contractor is to submit a by-building order form to the Consultant and Owner listing the items and quantities for each building the equipment is to be installed in. Refer to the Appendices for the Plumbing and Accessories Order Form

.3 Once the shop drawings are reviewed and the order form quantities are verified by the Consultant and Owner, the Owner will submit the order form to NPS for processing as well as pay NPS for the order directly.

.4 The Contractor is to coordinate delivery of supplied items with NPS and store on site as needed prior to installation.

.5 Material defects of the products and equipment are the responsibility of NEXT and the Contractors to coordinate and replace.

- .6 Replacement of any equipment or appurtenances listed in section 1.1.2.1 of this specification will be at the expense of the Contractor.

## 1.2 REFERENCES

- .1 Conform to the latest edition of the following:
  - .1 AODA - Accessibility for Ontarians with Disabilities Act
  - .2 TADG - Toronto Accessibility Design Guidelines

## 1.3 SUBMITTALS

- .1 Shop Drawings
  - .1 Submit Shop Drawings in the form of catalogue cuts and fully illustrating specified materials with description of components, surface finishes, hardware and securement devices.

## 1.4 WARRANTY

- .1 Warrant the following Products against defects and deficiencies for a period of two years from date Work is certified as substantially performed in accordance with the general conditions of the Contract:
- .2 Promptly make good defects and deficiencies which become apparent within the Warranty Period by replacing defective Product satisfactory to the Consultant and at no expense to the Owner.

## 2 Products

### 2.1 PLUMBING FIXTURES

- .1 General Requirements
  - .1 CSA approved plumbing fixtures and fittings, of make, type and size specified herein.
  - .2 Comply with the current water saving ratings of the Ontario Building Code, and ASHRAE/IEEE 90.1.
    - .1 Lavatories: Maximum 8.3 L/min at 413 kPa (60 psig)
    - .2 Urinals: Maximum 3.8 L/flush
    - .3 Water closets: Maximum 6.0 L/flush
    - .4 Shower heads: Maximum 9.5 L/min
  - .3 Plumbing supplies and fixture trim material to be of CSA approved plumbing brass with chrome plated finish, and of make and type specified.
    - .1 Each item to bear name of manufacturer or identifying trademark.

### 2.2 LAVATORIES

- .1 Lavatories - Type L1H (Barrier Free Use)
  - .1 Type: Wall hung, vitreous china.

- .2 Lavatory: White, 508 mm x 464 mm for barrier free use, dilled for concealed arm carrier with single faucet hole and overflow, complete with semi-pedestal P-trap cover.
  - .1 American Standard "Decorum with EverClean" No. 9024.001EC.020
- .3 Supply fitting: Electronic, adjustable infrared sensor-activated faucet, polished chrome finish, single hole mounting, magnetic solenoid valve.
  - .1 Moen Align Sensor Faucet - 8559 (Electronic No-Touch Hardwired)
    - .1 Moen AC Conversion Kit - 182538
    - .2 Moen AC Transformer – 104630
- .4 Lavatory supplies: Chrome plated polished brass, ¼ turn ball valve angle stop, convertible ¼ turn/loose key handles, horizontal extension tubes, escutcheons and flexible copper risers. Products from the following manufacturers are acceptable.
  - .1 McGuire Supply Kit - H170LK-BV-RB
- .5 Trap: Adjustable durable solid brass “P” trap with 32 mm O.D outlet, adjustable rotation on tube outlet, slip joint inlet and cleanout plug. Products from the following manufacturers are acceptable:
  - .1 McGuire No. MC-8872CB
- .6 Sanitary Covering:
  - .1 McGuire MC-PW-2000 PW2000 PROWRAP
- .7 Waste fitting: Drain with open grid strainer, cast brass one piece top and tailpiece.
  - .1 McGuire No. 155A
- .8 Basin carrier: Heavy duty steel uprights with integral welded feet., concealed arms, wall flanges to attach to backing plate secured in wall with locking device and levelling screws, wall mounted steel plated hardware. Type and model as recommended by manufacturer for each wall hung basin to suit wall construction. Products from the following manufacturers are acceptable.
  - .1 Watts No. WCA-411-CA-481
- .9 Water Mixing Valve
  - .1 Powers Point of use Under Counter Thermostatic Mixing Valve
    - .1 LFE480-10
- .2 Lavatories - Type L1R (Regular)
  - .1 Type: Wall hung, vitreous china.
  - .2 Lavatory: White, 508 mm x 464 mm, dilled for concealed arm carrier with single faucet hole and overflow, complete with semi-pedestal P-trap cover.
    - .1 American Standard "Decorum with EverClean" No. 9024.001EC.020

- .3 Supply fitting: Electronic, adjustable infrared sensor-activated faucet, polished chrome finish, single hole mounting, magnetic solenoid valve.
  - .1 Moen Align Sensor Faucet - 8559 (Electronic No-Touch Hardwired)
    - .1 Moen AC Conversion Kit - 182538
    - .2 Moen AC Transformer – 104630
- .4 Lavatory supplies: Chrome plated polished brass, ¼ turn ball valve angle stop, convertible ¼ turn/loose key handles, horizontal extension tubes, escutcheons and flexible copper risers. Products from the following manufacturers are acceptable.
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  - .1 McGuire No. MC-8872CB
- .6 Sanitary Covering:
  - .1 McGuire MC-PW-2000 PW2000 PROWRAP
- .7 Waste fitting: Drain with open grid strainer, cast brass one piece top and tailpiece.
  - .1 McGuire No. 155A
- .8 Basin carrier:
  - .1 To be provided by mechanical contractor, model ZURN Z1231EZ Universal Concealed Arm Carrier System. Refer to specification 22 42 00 section 1.1.2 General Requirement.
    - .1 Wall mounted, dura-coated, ductile iron universal arms, with leveling screws and locking devices. Tested in accordance to ASME A112.6.1M at all rough-in positions.
    - .2 Contractor to verify exact service line rough-in connection location and include waste line sleeve, adapter, extension sleeve when required to meet installation location as required.
- .9 Water Mixing Valve
  - .1 Powers Point of use Under Counter Thermostatic Mixing Valve
    - .1 LFE480-10
- .3 Lavatories Type L1:
  - .1 Type: Countertop, self-rimming, vitreous china
  - .2 Lavatory: White, self-rimming, rear/front overflow, drilled for 100 mm supply fitting.
    - .1 American Standard "Aqualyn" #0475.047.020 518 x 441 mm

- .3 Supply fitting: Electronic, adjustable infrared sensor-activated faucet, polished chrome finish, single hole mounting, magnetic solenoid valve.
  - .1 Moen Align Sensor Faucet - 8559 (Electronic No-Touch Hardwired)
    - .1 Moen AC Conversion Kit - 182538
    - .2 Moen AC Transformer - 104630
    - .3 McGuire Supply Kit - H170LK-BV-RB
- .4 Lavatory supplies: Chrome plated polished brass, ¼ turn ball valve angle stop, convertible ¼ turn/loose key handles, horizontal extension tubes, escutcheons and flexible copper risers. Products from the following manufacturers are acceptable.
  - .1 McGuire Supply Kit - H170LK-BV-RB
- .5 Trap: Adjustable durable solid brass "P" trap with 32 mm O.D outlet, adjustable rotation on tube outlet, slip joint inlet and cleanout plug. Products from the following manufacturers are acceptable:
  - .1 McGuire No. MC-8872CB
- .6 Waste fitting: Chrome plated drain with open grid strainer with adjustable offset waste connection, cast brass construction.
  - .1 McGuire No. 155A
- .7 Sanitary Covering
  - .1 McGuire MC-PW-2000 PW2000 PROWRAP.
- .8 Trap: NPS 1¼ adjustable tubular chrome plated polished cast brass "P" Trap with cleanout and wall escutcheon. Products from the following manufacturers are acceptable.
  - .1 McGuire No. 8872CB
- .9 Water Mixing Valve
  - .1 Powers Point of use Under Counter Thermostatic Mixing Valve
    - .1 LFE480-10
- .4 Lavatories Type L2H: (Barrier Free Use):
  - .1 Type: Countertop, self-rimming with rim sealant, vitreous china
  - .2 Lavatory: White, for barrier free use, self-rimming with sealant, overflow, drilled for 100 mm supply fitting.
    - .1 American Standard "Aqualyn" #0475.047.020 518 x 441 mm
  - .3 Supply fitting: Electronic, adjustable infrared sensor-activated faucet, polished chrome finish, single hole mounting, magnetic solenoid valve.
    - .1 Moen Align Sensor Faucet - 8559 (Electronic No-Touch Hardwired)

- .1 Moen AC Conversion Kit - 182538
  - .2 Moen AC Transformer - 104630
  - .3 McGuire Supply Kit - H170LK-BV-RB
- .4 Waste fitting: Chrome plated drain with open grid strainer with adjustable offset waste connection, cast brass construction.
  - .1 McGuire No. 155WC
- .5 Trap: NPS 1¼ adjustable tubular chrome plated polished cast brass "P" Trap with cleanout and wall escutcheon. Products from the following manufacturers are acceptable.
  - .1 McGuire No. 8872CB
- .6 Sanitary Covering
  - .1 McGuire MC-PW-2000 PW2000 PROWRAP.
- .7 Lavatory supplies: Chrome plated polished brass, ¼ turn ball valve angle stop, convertible ¼ turn/loose key handles, horizontal extension tubes, escutcheons and flexible copper risers. Products from the following manufacturers are acceptable.
  - .1 McGuire No. H170LK-BVRB
- .8 Water Mixing Valve
  - .1 Powers Point of use Under Counter Thermostatic Mixing Valve
    - .1 LFE480-10
- .5 Lavatories - Type L3H (Barrier Free Use)
  - .1 Type: Wall hung, vitreous china.
  - .2 Lavatory: White, 533 mm x 514 mm for barrier free use, dilled for concealed arm carrier with single faucet hole and overflow, complete with semi-pedestal P-trap cover.
    - .1 American Standard "Decorum with EverClean" No. 9134.001EC/0059.020EC shroud
  - .3 Supply fitting: Electronic, adjustable infrared sensor-activated faucet, polished chrome finish, single hole mounting, magnetic solenoid valve.
    - .1 Moen Align Sensor Faucet - 8559 (Electronic No-Touch Hardwired)
      - .1 Moen AC Conversion Kit - 182538
      - .2 Moen AC Transformer – 104630
  - .4 Lavatory supplies: Chrome plated polished brass, ¼ turn ball valve angle stop, convertible ¼ turn/loose key handles, horizontal extension tubes, escutcheons and flexible copper risers. Products from the following manufacturers are acceptable.

- .1 McGuire Supply Kit - H170LK-BV-RB
- .5 Trap: Adjustable durable solid brass "P" trap with 32 mm O.D outlet, adjustable rotation on tube outlet, slip joint inlet and cleanout plug. Products from the following manufacturers are acceptable:
  - .1 McGuire No. MC-8872CB
- .6 Waste fitting: Drain with open grid strainer, cast brass one piece top and tailpiece.
  - .1 McGuire No. 155A
- .7 Basin carrier: Heavy duty steel uprights with integral welded feet., concealed arms, wall flanges to attach to backing plate secured in wall with locking device and levelling screws, wall mounted steel plated hardware. Type and model as recommended by manufacturer for each wall hung basin to suit wall construction. Products from the following manufacturers are acceptable.
  - .1 Watts No. WCA-411-CA-481
- .8 Water Mixing Valve
  - .1 Powers Point of use Under Counter Thermostatic Mixing Valve
    - .1 LFE480-10
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  - .1 Type: Wall hung, vitreous china.
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    - .1 McGuire No. MC-8872CB



- .6 Waste fitting: Drain with open grid strainer, cast brass one piece top and tailpiece.
  - .1 McGuire No. 155A
- .7 Basin carrier:
  - .1 To be provided by mechanical contractor, model ZURN Z1231EZ Universal Concealed Arm Carrier System. Refer to specification 22 42 00 section 1.1.2 General Requirement
    - .1 Wall mounted, dura-coated, ductile iron universal arms, with leveling screws and locking devices. Tested in accordance to ASME A112.6.1M at all rough-in positions.
    - .2 Contractor to verify exact service line rough-in connection location and include waste line sleeve, adapter, extension sleeve when required to meet installation location as required.
- .8 Water Mixing Valve
  - .1 Powers Point of use Under Counter Thermostatic Mixing Valve
    - .1 LFE480-10
- .7 Lavatories Type L4H: (Barrier Free Use):
  - .1 Type: Undercounter lavatory, vitreous china
  - .2 Lavatory: White, for barrier free use with rear overflow and undermount clips
    - .1 American Standard "Ovalyn Universal Access" #9482.000 489 x 400 mm
  - .3 Supply fitting: Electronic, adjustable infrared sensor-activated faucet, polished chrome finish, single hole mounting, magnetic solenoid valve.
    - .1 Moen Align Sensor Faucet - 8559 (Electronic No-Touch Hardwired)
      - .1 Moen AC Conversion Kit - 182538
      - .2 Moen AC Transformer - 104630
      - .3 McGuire Supply Kit - H170LK-BV-RB
  - .4 Waste fitting: Chrome plated drain with open grid strainer with adjustable offset waste connection, cast brass construction.
    - .1 McGuire No. 155WC
  - .5 Trap: NPS 1¼ adjustable tubular chrome plated polished cast brass "P" Trap with cleanout and wall escutcheon. Products from the following manufacturers are acceptable.
    - .1 McGuire No. 8872CB
  - .6 Sanitary Covering
    - .1 McGuire MC-PW-2000 PW2000 PROWRAP.

- .7 Lavatory supplies: Chrome plated polished brass, ¼ turn ball valve angle stop, convertible ¼ turn/loose key handles, horizontal extension tubes, escutcheons and flexible copper risers. Products from the following manufacturers are acceptable.

- .1 McGuire No. H170LK-BVRB

- .8 Water Mixing Valve

- .1 Powers Point of use Under Counter Thermostatic Mixing Valve

- .1 LFE480-10

## 2.3

### URINALS

- .1 Urinals - Type U1H (Barrier Free Use)

- .1 Type: Wall hung, exposed electronic "No Touch" automatic flush valve.

- .2 Urinal: White, vitreous china, washdown, with integral extended shields, and trap; complete with 19 mm top spud, non-metallic strainer, outlet connection and wall hanger.

- .1 American Standard "Washbrook FloWise" No.6590001.020

- .3 Automatic flush control: Exposed, chrome plated, 1.9 L factory set flow, quiet action diaphragm type, urinal flushometer complete with infrared sensor with solenoid operated flush controller circuitry, back-check angle stop, vacuum breaker located above urinal.

- .1 Moen Sensor Operated WC flush valve – 8315AC05

- .1 Moen AC Transformer - 104630

- .4 Carrier: Complete Steel hanger plate with epoxy coated steel uprights with welded feet support. Products from the following manufacturers are acceptable.

- .1 Watts No. CA-321

- .5 Wall cleanout: Urinal cleanout with stainless steel access cover and stainless steel vandal proof securing screw. Products from the following manufacturers are acceptable:

- .1 American Standard "WUCO"

## 2.4

### WATER CLOSETS

- .1 Water Closets - Type W1 - Flushometer Valve

- .1 Type: Wall hung, exposed flush valve, vitreous china.

- .2 Closet bowl: White, vitreous china with Everclean antimicrobial surface, syphon-jet bowl with elongated bowl, direct-fed siphon jet action, concealed trap and NPS 1½ top spud.

- .1 American Standard "Afwall Millennium FloWise " No. 3351.101.020

- .3 Flush valve: Exposed, sensor-operated, complete with angle stop, 1½ high back pressure vacuum breaker with spud coupling and flange, vandal-resistant cap.

- .1 Moen Sensor Operated WC flush valve – 8311AC12
  - .1 Moen AC Transformer - 104630
- .4 Closet seat: White, solid plastic elongated open front seat, less cover with reinforced stainless steel check hinge and post nuts and washers.
  - .1 Centoco – 500STSCC
- .5 Closet carrier: Type and model as recommended by manufacturer for each wall hung closet to suit wall construction. Products from the following manufacturers are acceptable.
  - .1 Watts No. ISCA-101-L/R-M11
- .2 Water Closets - Type W1H (Barrier Free Use) - Flush Valve
  - .1 Type: Wall hung, flushometer valve
  - .2 Closet bowl: White, vitreous china, direct-fed syphon-jet, elongated bowl and 38 mm top spud, concealed trapway. Bowl height from floor to rim 400 mm - 410 mm.
    - .1 American Standard "Afwall Millennium FloWise" No. 3351.101.002
  - .3 Flush valve: Exposed, sensor-operated, complete with angle stop, 1½ high back pressure vacuum breaker with spud coupling and flange, vandal-resistant cap.
    - .1 Moen Sensor Operated Flush Valve – 8311AC12
      - .1 Moen AC Transformer – 104630
      - .2 Moen 24" Flush Tube - 104585
  - .4 Toilet seat: White, elongated solid plastic, heavy duty open front, less cover, stainless steel check hinges with gasket,
    - .1 Centoco 500 Series No. 500STSCC
  - .5 Toilet Back Rest:
    - .1 Bobrick – CM-16104
  - .6 Closet carrier: Type and model as recommended by manufacturer for each wall hung closet to suit wall construction. Products from the following manufacturers are acceptable.
    - .1 Watts No. ISCA-101-L/R-M11
- .3 Water Closets - Type W2 - Flush Valve
  - .1 Type: Floor mounted, bottom outlet, flush valve.
  - .2 Closet bowl: White vitreous china, syphon-jet bowl with elongated bowl, condensation channel, bolt caps and 38 mm top spud, and china bolt caps.
    - .1 American Standard "Madera" No. 3451.001.020

- .3 Flush valve: Exposed, sensor-operated, complete with angle stop, 1½ high back pressure vacuum breaker with spud coupling and flange, vandal-resistant cap.
  - .1 Moen Sensor Operated Flush Valve – 8311AC12
    - .1 Moen AC Transformer – 104630
- .4 Closet seat: White solid plastic elongated open front seat, less cover, reinforced stainless steel check hinges and post nuts and washers..
  - .1 Centoco 500 Series No. 500STSCC
- .4 Water Closets - Type W2H (Barrier Free Use) - Flush Valve
  - .1 Type: Floor mounted, bottom outlet, flush valve.
  - .2 Closet bowl: White vitreous china, syphon-jet bowl with elongated bowl, condensation channel, bolt caps and 38 mm top spud, and china bolt caps.
    - .1 American Standard "Madera" No. 3461.001.020
  - .3 Flush valve: Exposed, sensor-operated, complete with angle stop, 38 mm high back pressure vacuum breaker with spud coupling and flange, vandal-resistant cap.
    - .1 Moen Sensor Operated Flush Valve – 8311AC12
      - .1 Moen AC Transformer – 104630
      - .2 Moen 24" Flush Tube - 104585
  - .4 Closet seat: White solid plastic elongated open front seat, less cover, reinforced stainless steel check hinges and post nuts and washers.
    - .1 Centoco 500 Series No. 500STSCC
  - .5 Toilet Back Rest:
    - .1 Bobrick – CM-16104
- .5 Water Closets - Type W3
  - .1 Type: Floor mounted, back outlet, pressure assist flush tank, low consumption.
  - .2 Closet combination: White vitreous china, siphon jet flush closet bowl with elongated rim and close coupled vitreous china pressure assisted closet tank complete with fittings.
    - .1 American Standard "Cadet RH PA Universal Bowl – White
      - .1 American Standard – PA Tank, 1.1 GPF White
  - .3 Closet seat: White, heavy duty, solid plastic elongated open front with cover, with stainless steel check hinges and stainless steel posts and nuts.
    - .1 Centoco No. 820STS

- .4 Closet supply: NPS 3/8 with lockshield, rigid copper sweat tube nipples, combination V.P. loose key handle, turn ball angle stop and wall escutcheon and flexible risers. Products from the following manufacturers are acceptable.
  - .1 McGuire No. MC-H172LK-BV
- .6 Water Closets - Type W3H (Barrier Free Use) - Pressure Assist Tank
  - .1 Type: Floor mounted, back outlet, pressure assist flush tank.
  - .2 Closet combination: White vitreous china, siphon jet flush trap closet bowl with elongated rim and close coupled vitreous china pressure assisted closet tank complete with fittings.
    - .1 American Standard "Cadet RH PA Universal Bowl – White
    - .1 American Standard – PA Tank, 1.1 GPF White
  - .3 Closet seat: White, heavy duty, solid plastic elongated open front with cover, with stainless steel check hinges and stainless steel posts and nuts.
    - .1 Centoco No. 500STSCC
  - .4 Closet supply: 13 mm turn ball valve angle stops, coppers sweat nipples, combination V.P. loose key stop and wall escutcheon and flexible copper risers. Products from the following manufacturers are acceptable.
    - .1 McGuire No. MC-H172LK-BV
- 2.5 **SERVICE SINK**
  - .1 Mop Sinks - Type M2
    - .1 Type: Pre-cast terrazzo floor mounted.
    - .2 Sink: 610 x 610 mm, precast terrazzo with one piece integral stainless steel cap on all four sides and integral drain with strainer. "P" trap under floor.
      - .1 Stern Williams Serviceptor No. SB-900
      - .2 Fiat
      - .3 Or accepted equal
    - .3 Faucets: Mop sink supply fitting with vacuum breaker, integral stops, cross or lever handles, rigid spout with pail hook, brace to wall, minimum 787 mm hose and stainless steel hanger, adjustable wall flanges and NPS ½ IPS connections.
      - .1 Chicago Faucets No. 897-RCF-Hose
      - .2 American Standard
      - .3 Delta
      - .4 Zurn
      - .5 Or accepted equal

.2 Mop Sinks - Type M3

- .1 Type: Terrazzo floor mounted corner mop sink.
- .2 Sink: Precast terrazzo 711 x 711 x 304 mm deep, floor mounted, with stainless steel cast integral cap on front drop and integral drain with strainer, "P" trap under floor, and two stainless steel wall guards.
  - .1 Stern Williams No. CRS2200
  - .2 Fiat
  - .3 Or accepted equal
- .3 Faucets: Mop sink supply fitting with vacuum breaker, integral stops, cross or lever handles, rigid spout with pail hook, brace to wall, 787 mm rubber hose and coupling, adjustable wall flanges and NPS ½ IPS connections.
  - .1 American Standard No. GL-8344.111-002
  - .2 Chicago Faucets
  - .3 Delta
  - .4 Zurn
  - .5 Or accepted equal

2.6

**STAINLESS STEEL SINKS**

.1 Stainless Steel Sinks - Type S1 (Barrier Free Use)

- .1 Single compartment: 406 x 533 x 127 mm OD undermount, stainless steel sink drawn from 18-10 Type 304 heavy gauge stainless steel, with undercoating, and complete with 90 mm stainless steel crumb cup strainer and brass tailpiece.
  - .1 Franke Commercial UCS6105P
  - .2 Blanko
  - .3 Kindred Industries Limited
  - .4 AMI Industries
- .2 Faucets: Chrome plated solid cast brass deck type sink supply fitting with 232 mm swing spout, single lever handle and maximum 8.3 L/min flow, water saver aerator, pull-out spray with adjustable spray pattern, lock & turn activation button, 10 mm compression inlets, braided flexible supply hoses.
  - .1 American Standard No. 7074100.002
  - .2 Chicago Faucets
  - .3 Delta
  - .4 Zurn
  - .5 Or accepted equal

- .2     Stainless Steel Sinks - Type S2 (Barrier Free Use)
  - .1     Double compartment: 451 x 784 x 127 mm OD undermount stainless steel sink drawn from 18-10 Type 304 heavy gauge stainless steel, with undercoating, and complete with 90 mm stainless steel crumb cup strainers and brass combination tailpiece.
    - .1     Franke Commercial UCD6405P
    - .2     Blanko
    - .3     Kindred Industries Limited
    - .4     AMI Industries
  - .2     Faucets: Chrome plated solid cast brass deck type sink supply fitting with 232 mm swing spout, single lever handle and maximum 8.3 L/min flow, water saver aerator, pull-out spray with adjustable spray pattern, lock & turn activation button, 10 mm compression inlets, braided flexible supply hoses.
    - .1     American Standard No. 7074100.002
    - .2     Chicago Faucets
    - .3     Delta
    - .4     Zurn
    - .5     Or accepted equal
- .3     Stainless Steel Sinks - Type S3 (Barrier Free Use)
  - .1     Single compartment: 406 x 533 x 127 mm OD undermount, stainless steel sink drawn from 18-10 Type 304 heavy gauge stainless steel, with undercoating, and complete with 90 mm stainless steel crumb cup strainer and brass tailpiece.
    - .1     Franke Commercial UCS6105P
    - .2     Blanko
    - .3     Kindred Industries Limited
    - .4     AMI Industries
  - .2     Faucets: Electronic "No-Touch" AC powered faucet, chrome plated finish, cast brass body, high arc spout, single hole only, single lever handle and 5.7 L/min flow, pull-down spray with adjustable spray pattern, 10 mm compression inlets, braided flexible supply hoses.
    - .1     Moen Align with MotionSense No. 7565EC
    - .2     American Standard
    - .3     Chicago Faucets
    - .4     Delta
    - .5     Zurn

- .6 Or accepted equal
- .4 Stainless Steel Sinks - Type S4 (Barrier Free Use)
  - .1 Double compartment: 451 x 784 x 127 mm OD undermount stainless steel sink drawn from 18-10 Type 304 heavy gauge stainless steel, with undercoating, and complete with 90 mm stainless steel crumb cup strainers and brass combination tailpiece.
    - .1 Franke Commercial UCD6405P
    - .2 Blanko
    - .3 Kindred Industries Limited
    - .4 AMI Industries
  - .2 Faucets: Electronic "No-Touch" AC powered faucet, chrome plated finish, cast brass body, high arc spout, single hole only, single lever handle and 5.7 L/min flow, pull-down spray with adjustable spray pattern, 10 mm compression inlets, braided flexible supply hoses.
    - .1 Moen Align with MotionSense No. 7565EC
    - .2 American Standard
    - .3 Chicago Faucets
    - .4 Delta
    - .5 Zurn
    - .6 Or accepted equal
- .5 Fittings
  - .1 Trap: Adjustable cast brass 38 mm "P"-trap 38 mm with cleanout.
  - .2 Sanitary Covering: PW2000 PROWRAP or accepted equal.
  - .3 Supplies: Pair 12 mm rough stops with flexible risers.
    - .1 Acceptable manufacturers for trap and supplies:
      - .1 McGuire
      - .2 Zurn
      - .3 Kohler
  - .4 Water Mixing Valve
    - .1 Lawler TMM-1070
    - .2 Symmons
    - .3 Powers
    - .4 Leonard



- .5 Zurn
- .6 Or accepted equal
- .5 Provide tee, adaptors and flexible copper tubing to suit installation.

## 2.7 **SHOWER**

### .1 Individual Showers - Type SH2

- .1 Type: Non-scald pressure balance shower valve with lever handle, integral service stops or and check stops, deluxe shower head with adjustable spray pattern ~~and 9.5 L/min at test pressure of 550 kPa~~ capacity 5.7 L/min with flow restrictor, bent arm and escutcheon.

- .1 Symmons No. 1-100

The above mentioned manufacturer/trade name/catalogue number has been used as a guide to establish the standard of construction and style. Comparable Products from the following manufacturers are acceptable.

- .2 Zurn

- .3 Delta

### .2 Individual Showers - Type SH2H (Barrier Free Use)

- .1 Type: Non-scald pressure balancing shower trim and mixing valve with high temperature limit stop, shower head with flow restrictor, wall mount shower arm and wall flange, hand shower set with 1752 mm flexible hose, vacuum breaker bracket, and wall supply. In-wall 3-way diverter trim and valve kit with single lever handle.

- .1 Chicago Faucets No. SH-PB1-13-040

- .2 Leonard

- .3 Delta

## 2.8 **MISCELLANEOUS**

### .1 Below Deck Mechanical Water Mixing

- .1 Type: Bronze body, temperature adjusting dial, high temperature thermostatic limit stop, shut-off valve with automatic reset.

- .2 Capacity: 1.9 L/min to 19 L/min at 140 kPa (20 psig) pressure drop, or as shown. Products from the following manufacturers are acceptable:

- .1 Lawler Model No. TMM-1070

- .2 Symmons

- .3 Powers

- .4 Leonard

- .5 Or accepted equal

- .2 Combination Fixture – Type WLP1H (Barrier Free Use)
  - .1 Type: Combination fixture, on-floor mounting, wall waste outlet
    - .1 Acorn Penal-Ware 1449-LO-2-03-M-DMS-1.6GPF-FVH
  - .2 Closet Bowl: Heavy gauge type 304 stainless steel, satin finish toilet bowl, blowout jet flushing action
  - .3 Flush valve: Chase mounted hydraulic flush valve, 6.0 LPF
  - .4 Lavatory: Heavy gauge type 304 stainless steel, satin finish, standard oval lavatory bowl
  - .5 Supply fitting: Deck mounted spout, 5.4 LPM, Air-Trol pneumatic single temperature metering
  - .6 Waste fitting: 60mm OD toilet waste outlet and 38mm OD LAV standard elbow waste outlet
  - .7 Toilet seat: Integral contoured seat
  - .8 Fire-resistant and sound-deadened cabinet
  - .9 Grab bar: positioned behind toilet installed to cabinet and to wall
  - .10 Water Mixing Valve
    - .1 Thermostatic Mixing Valve
      - .1 Powers
      - .2 Acorn

3 Execution

3.1 **INSTALLATION**

- .1 Water Flow Rate
  - .1 Flush valve urinals and water closets.
    - .1 Adjust flush valves to provide specified water flow rate based on manufacturers calibration data for valve open time vs. inlet water pressure
  - .2 Showers:
    - .1 Adjust valve so that maximum temperature will be not more than 40°C
- .2 Barrier Free Use
  - .1 Rough-in and install plumbing fixtures and drinking fountains at the recommended height for normal or handicapped use as applicable to location.
  - .2 Water closets:
    - .1 Seat located between 400 and 460 mm above the floor

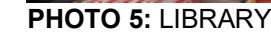
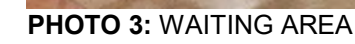
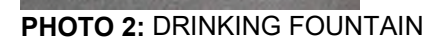
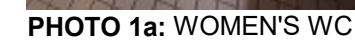
- .2 Horizontal position is between 460 and 480 mm between centerline of fixture and at least one adjacent side wall
  - .3 Lavatory:
    - .1 Top not more than 840 mm above floor
    - .2 Horizontal position is not less than 460 mm from centerline of fixture and side wall
    - .3 Insulate exposed supplies
  - .4 Showers:
    - .1 Locate shower head complete with hose and slide rail to be within reach of the seated position
- .3 Wall Hung Lavatories and Urinals
  - .1 Install hanger brackets supplied with fixtures to wall with 10 mm bolt studs welded to steel anchor plates embedded within wall.
  - .2 In locations where a pipe space is provided behind wall, extend bolt studs through wall and anchor with steel back-plates. Ensure proper placement and positioning of anchor plates and bolt studs during wall construction.
- .4 Wall Hung Water Closets
  - .1 Install chair carriers of type as recommended by manufacturer for each particular installation with due regard to construction and piping details.
- .5 Floor Mounted Water Closets
- .6 On sloping floors, where the slope exceeds 6 mm from the back to the front of the fixture, level the fixture by grouting the base until the slope is within the above limits.

End of Section





EXISTING APPLIANCES IN KITCHEN  
TO BE TEMPORARILY RELOCATED  
IN PROCESSING ROOM (2-21) AND  
CONNECTED TO SERVICE UNTIL  
THEY ARE MOVED BACK UPON  
COMPLETION OF UPGRADES TO  
THE KITCHEN (2-25)



NO	DESCRIPTION
1	REMOVE EXISTING WALL AND/OR COLUMN ENCLOSURE INCLUDING BUT NOT LIMITED TO TILE, PAINT, CORNER GUARDS, METAL PANELS, WALL MOUNTED FIXTURES AND FINISHES AS INDICATED. PROVIDE SMOOTH TRANSITION BETWEEN SURFACES AT LOCATION OF DEMOLISHED AREA.
	REMOVE EXISTING FLOORING AND BASE. REMOVE EXISTING TILE, CARPET, LINOLEUM, ETC. FULL TILE REPAIR LEVEL AND CLEAN SURFACE READY TO RECEIVE NEW FLOOR FINISHES. REFER TO FINISH SCHEDULE.
4	REMOVE EXISTING CEILING TO THE EXTENT OF THE PROPOSED ROOM SIZE MAKE GOOD SURROUNDING ADJACENT CEILINGS AFTER WALL CONSTRUCTION.
	REMOVE EXISTING DOOR AND FRAME. CUT PARTITION TO ACCOMMODATE NEW DOOR AND FRAME IF REQUIRED. PATCH AND FILL AS REQUIRED. REFER TO DETAIL 1/D1002, 2/D1002 AND 1/D2300
7	REMOVE EXISTING MILLWORK.
10	REMOVE EXISTING DOOR HARDWARE AS INDICATED IN DOOR SCHEDULE A901 AND HARDWARE SCHEDULE WITHIN SPECIFICATIONS.
11	REMOVE EXISTING GUARDRAIL, HANDRAIL AND HANDRAIL POST BASE. PATCH AND MAKE GOOD ALL SURFACES
34	REMOVE EXISTING DRINKING FOUNTAIN TO ACCOMMODATE NEW DRINKING FOUNTAIN.



Project North

1

SCALE CHECK



CONSTRUCTION KEY NOTES	
NO	DESCRIPTION
F	INSTALL DRINKING FOUNTAIN - REFER TO DETAIL 5/D1301, 6/1301.
K	INSTALL NEW DOOR AND FRAME. REFER TO DOOR SCHEDULE A9001, G0004 AND DOOR HARDWARE SCHEDULE IN THE SPECIFICATIONS.

CLIENT

CITY OF TORONTO

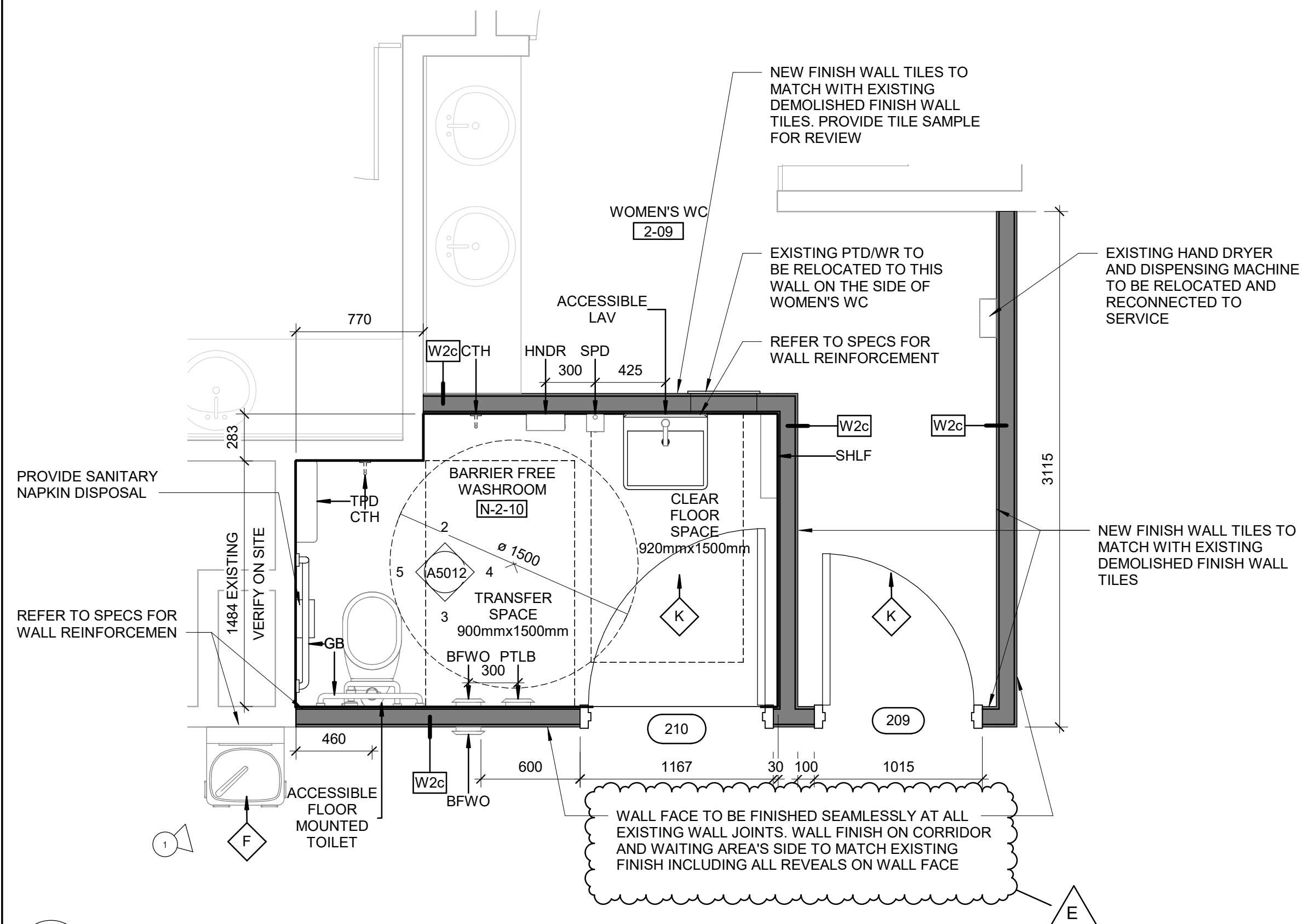
 **Toronto**

Corporate Real Estate Management  
Project Management Office  
Metro Hall Toronto, ON  
MSV 3C6

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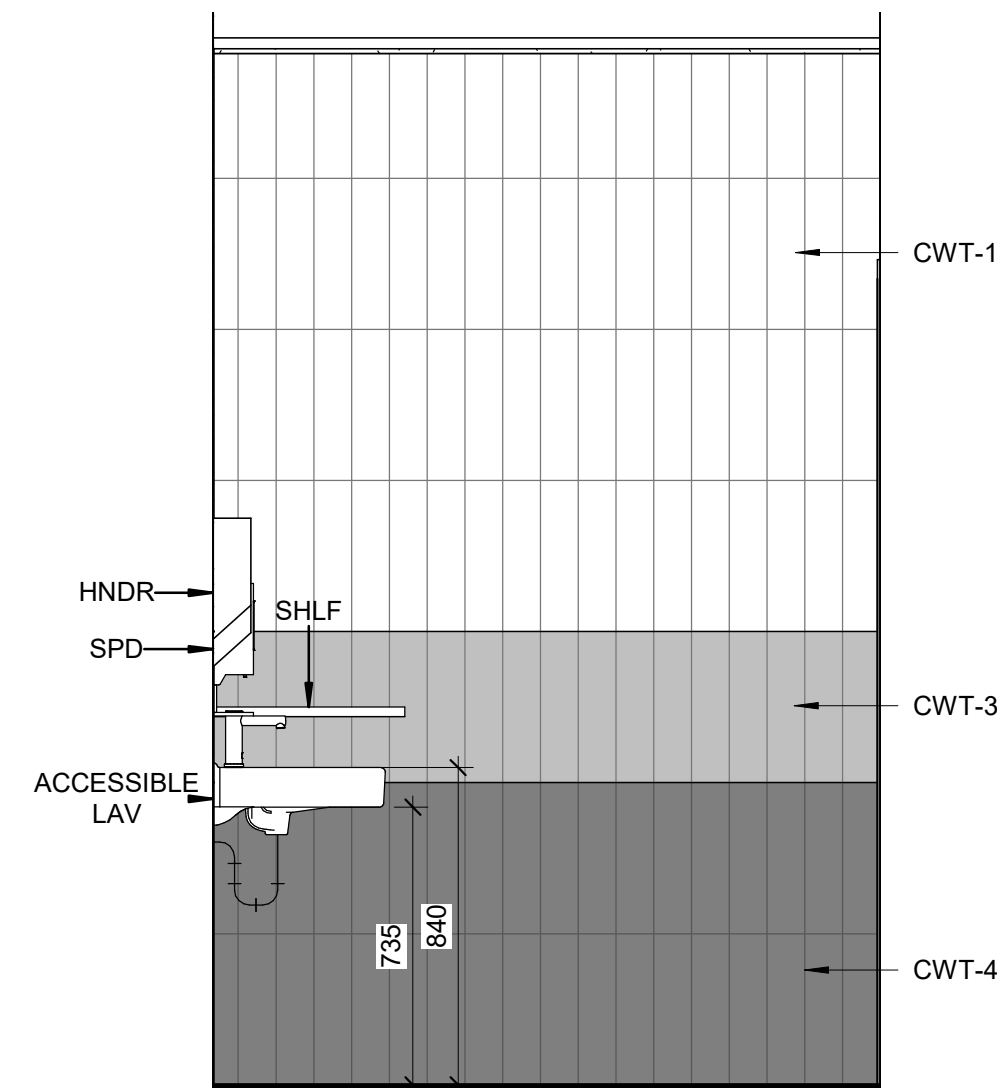
ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2021-05-25
B	90% SUBMISSION	2021-09-07
C	ISSUED FOR PERMIT	2021-09-07
D	ISSUED FOR TENDER	2022-02-16
E	ADDENDUM #3	2022-03-25



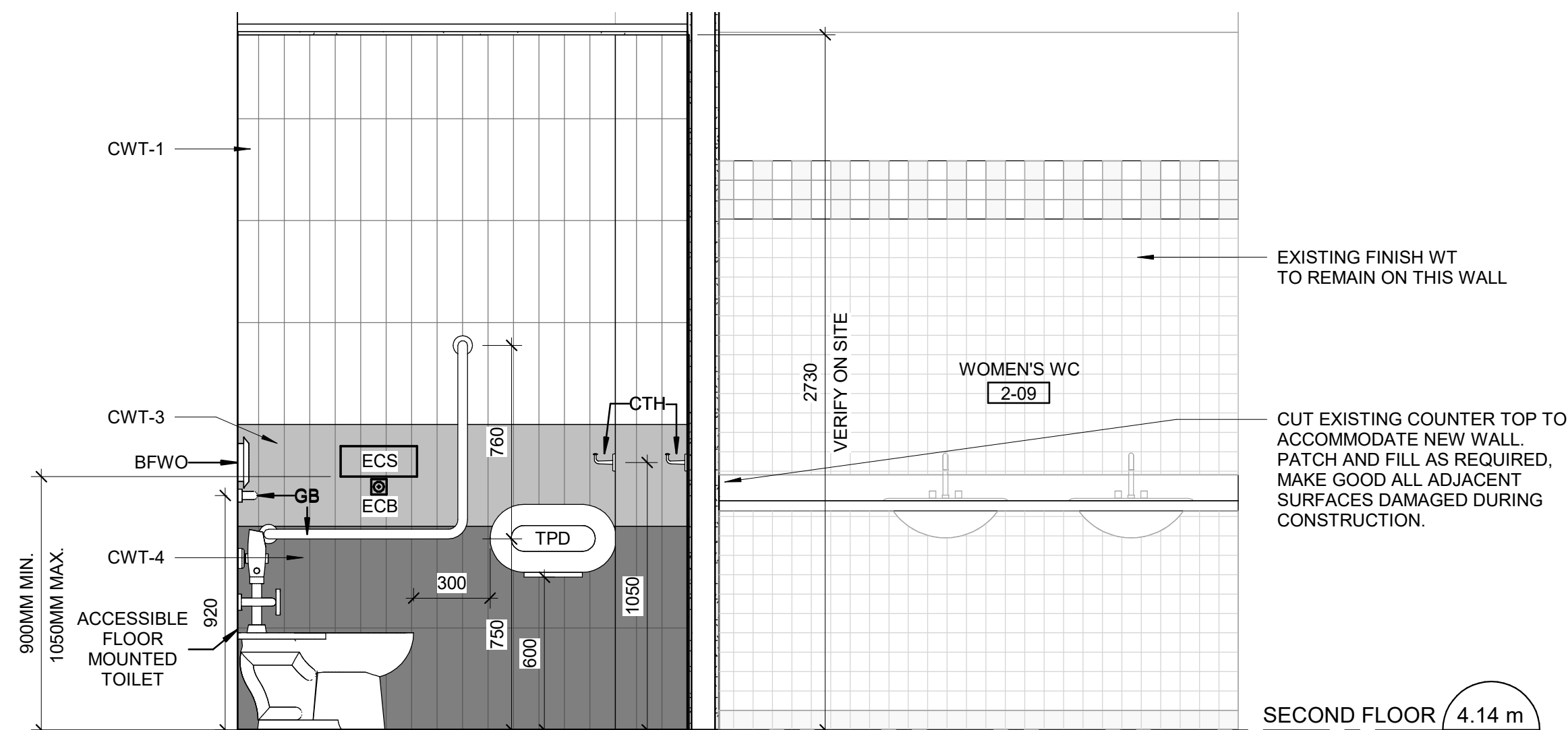
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A5012 Scale: 1 : 25



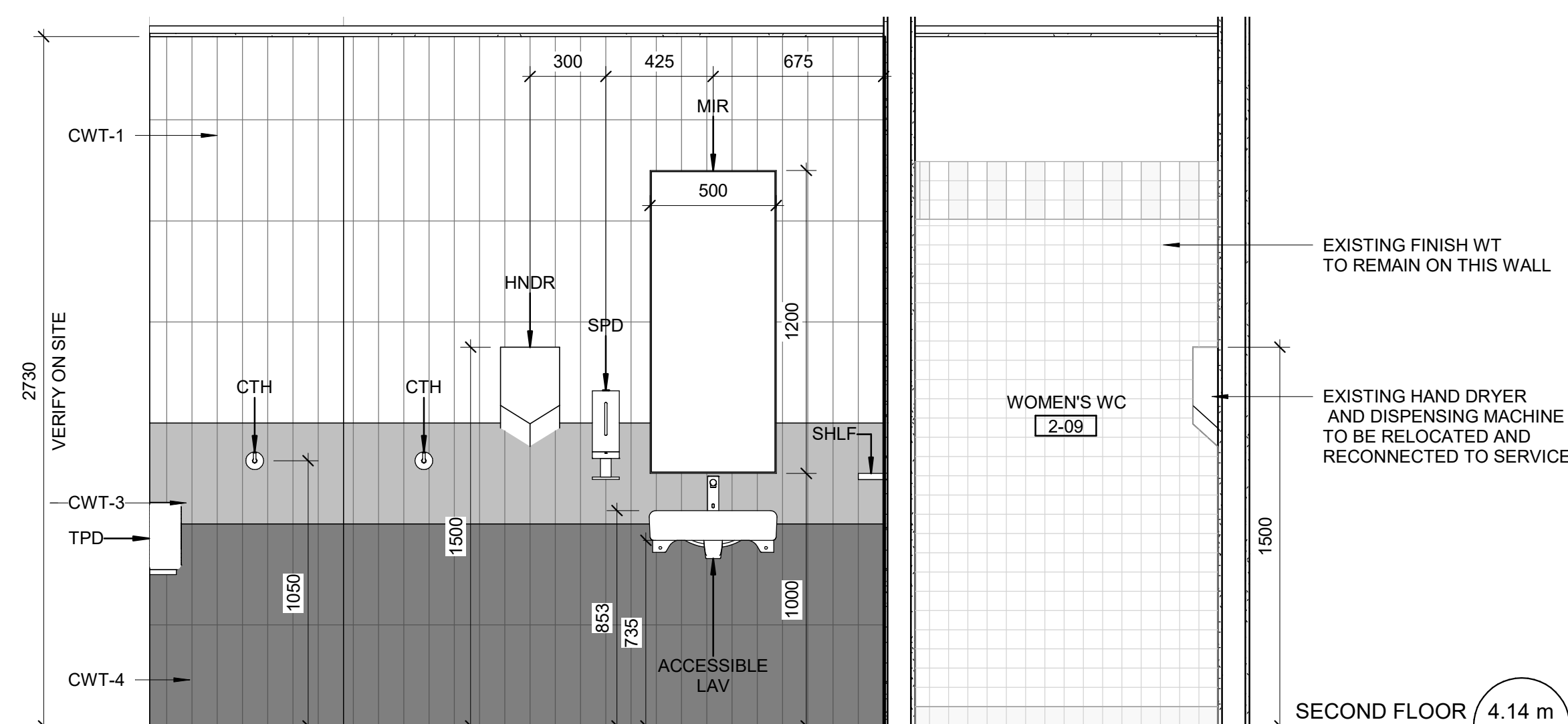
**PHOTO 1: EXISTING WALL FINISH**



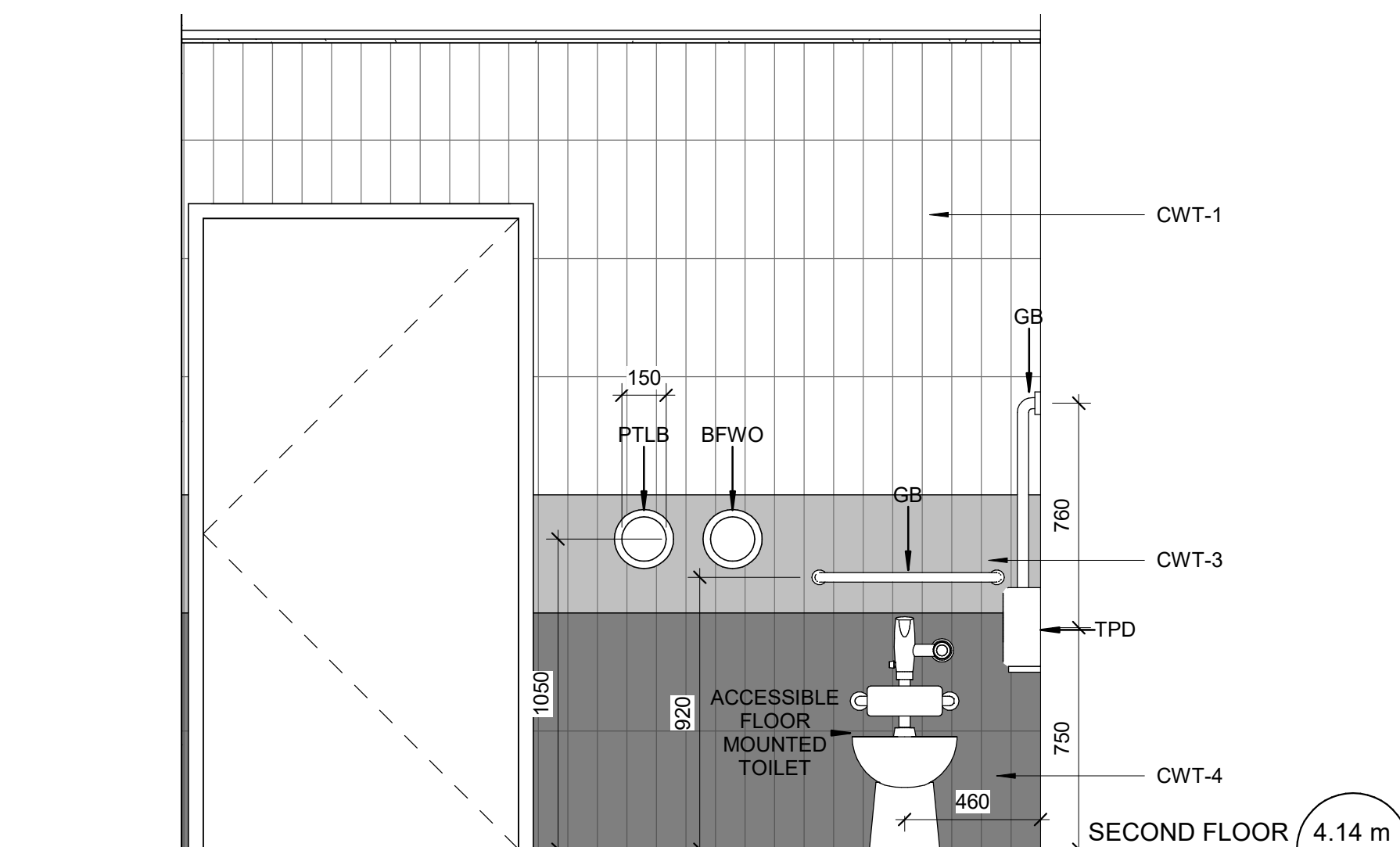
4 SECOND FLOOR BARRIER FREE WASHROOM N-210 - EAST ELEVATION  
A5012 Scale: 1 : 20



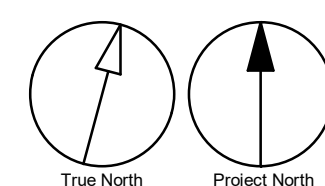
5 SECOND FLOOR BARRIER FREE WASHROOM N-210 - WEST ELEVATION  
A5012 Scale: 1 : 20



2 SECOND FLOOR BARRIER FREE WASHROOM N-210 - NORTH ELEVATION  
A5012 Scale: 1 : 20



3	SECOND FLOOR BARRIER FREE WASHROOM N-210 - SOUTH ELEVATION
A5012	Scale: 1 : 20



**PRIME CONSULTANT**

 **IBI GROUP**  
175 Galaxy Blvd, Unit 100  
Toronto, ON M9W 0C9, Canada  
tel 416 679 1930 fax 416 675 4620  
[ibigroup.com](http://ibigroup.com)

PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

CITY OF TORONTO  
ARCHIVES AND RECORDS  
CENTRE  
255 SPADINA ROAD

PROJECT NO: 9119-19-0162 / IBI 122260	
DRAWN BY: <b>A. BOYNARIAN</b>	CHECKED BY: <b>K. TILAHUN</b>
PROJECT MGR: <b>L.SOSA</b>	APPROVED BY: <b>M. KOTBY</b>

SHEET TITLE

SECOND FLOOR  
BARRIER FREE  
WASHROOM -  
ENLARGED PLAN

SHEET NUMBER	ISSUE
G29-152-A5012	E



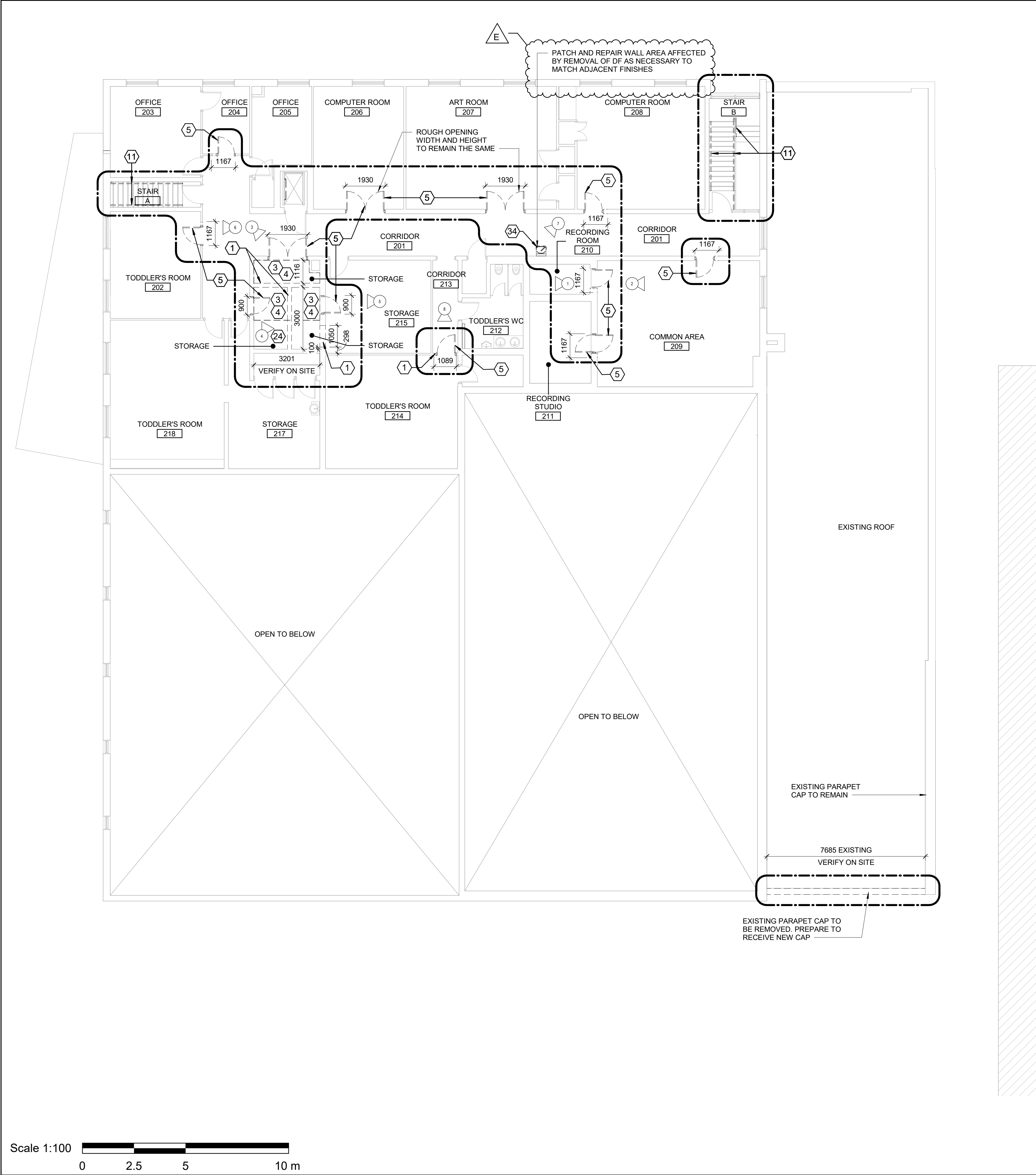


PHOTO 1: RECORDING ROOM



PHOTO 2: COMMON AREA

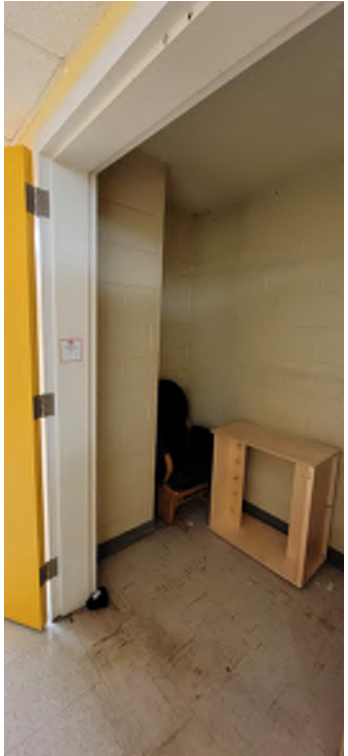


PHOTO 3: EXISTING STORAGE



PHOTO 4: EXISTING STORAGE

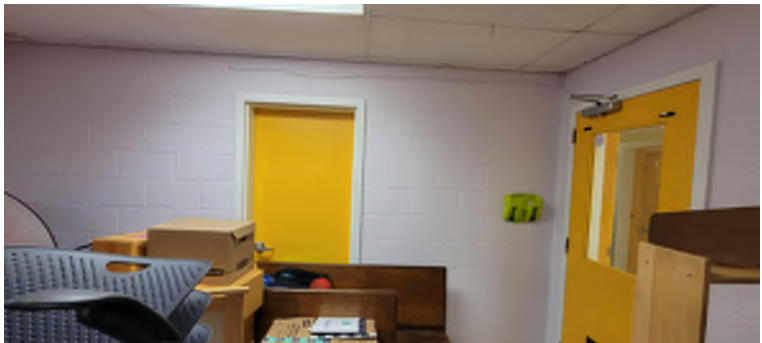


PHOTO 5: EXISTING STORAGE

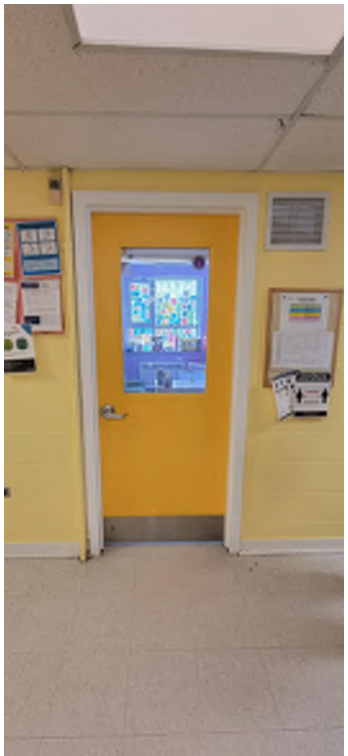


PHOTO 6: CORRIDOR TO TODDLER'S ROOM



PHOTO 7: DRINKING FOUNTAIN



PHOTO 8: CORRIDOR TO TODDLER'S ROOM

### DEMOLITION KEY LEGEND

- EXISTING TO BE DEMOLISHED
- - - - - EXISTING INTERIOR PARTITION TO BE DEMOLISHED
- ===== EXISTING EXTERIOR WALL TO REMAIN
- ===== EXISTING PARTITION TO REMAIN
- - - - - EXISTING DOOR, FRAME, AND ASSOCIATED HARDWARE TO BE REMOVED
- - - - - EXISTING DOOR TO REMAIN
- - - - - DASHED AREA INDICATES AREA OF WORK

### DEMOLITION GENERAL NOTES

- REMOVE ALL EXISTING TACTILE SURFACE INDICATORS (WALKING ATTENTION INDICATOR, TEXTURAL WARNING STRIP, NOSING STRIP AND HAZARD STRIP ON HANDRAIL) INCLUDING ADHESIVE MATERIAL AND FASTENING SYSTEM. MAKE GOOD SURFACE TO RECEIVE NEW TACTILE SURFACE INDICATORS IN LOCATIONS SHOWN. INCREASE DEPTH AND EXTENT OF EXISTING FLOOR DEPRESSIONS AND/OR CUT BACK EXISTING FLOOR FINISH AS APPLICABLE TO SUIT THE NEW INSTALLATION.

### DEMOLITION KEY NOTES

NO	DESCRIPTION
1	REMOVE EXISTING WALL AND/OR COLUMN ENCLOSURE INCLUDING BUT NOT LIMITED TO TILE, PAINT, CORNER GUARDS, METAL PANELS, WALL MOUNTED FIXTURES AND FINISHES AS INDICATED. PROVIDE SMOOTH TRANSITION BETWEEN SURFACES AT LOCATION OF DEMOLISHED AREA.
3	REMOVE EXISTING FLOORING AND BASE. REMOVE EXISTING TILE FLOORING TO CLOSEST FULL TILE. REPAIR, LEVEL AND CLEAN SURFACE READY TO RECEIVE NEW FLOOR FINISHES. REFER TO FINISH SCHEDULE.
4	REMOVE EXISTING CEILING TO THE EXTENT OF THE PROPOSED ROOM SIZE MAKE GOOD SURROUNDING ADJACENT CEILINGS AFTER WALL CONSTRUCTION.
5	REMOVE EXISTING DOOR AND FRAME. CUT PARTITION TO ACCOMMODATE NEW DOOR AND FRAME IF REQUIRED. PATCH AND FILL AS REQUIRED. REFER TO DETAIL 1/D1002, 2/D1002 AND 1/D2300
11	REMOVE EXISTING GUARDRAIL, HANDRAIL AND HANDRAIL POST BASE. PATCH AND MAKE GOOD ALL SURFACES.
24	EXISTING FLOORING TO REMAIN.
34	REMOVE EXISTING DRINKING FOUNTAIN TO ACCOMMODATE NEW DRINKING FOUNTAIN.

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C	ISSUED FOR PERMIT	2021-09-07
D	ISSUED FOR TENDER	2022-02-16
E	ADDENDUM 3	2022-03-25

CONSULTANTS

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PRIME CONSULTANT  
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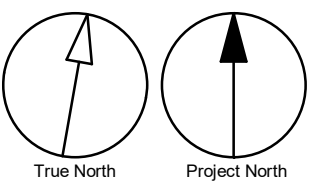
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ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**ST ALBANS BOYS & GIRLS  
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843 PALMERSTON  
AVENUE**

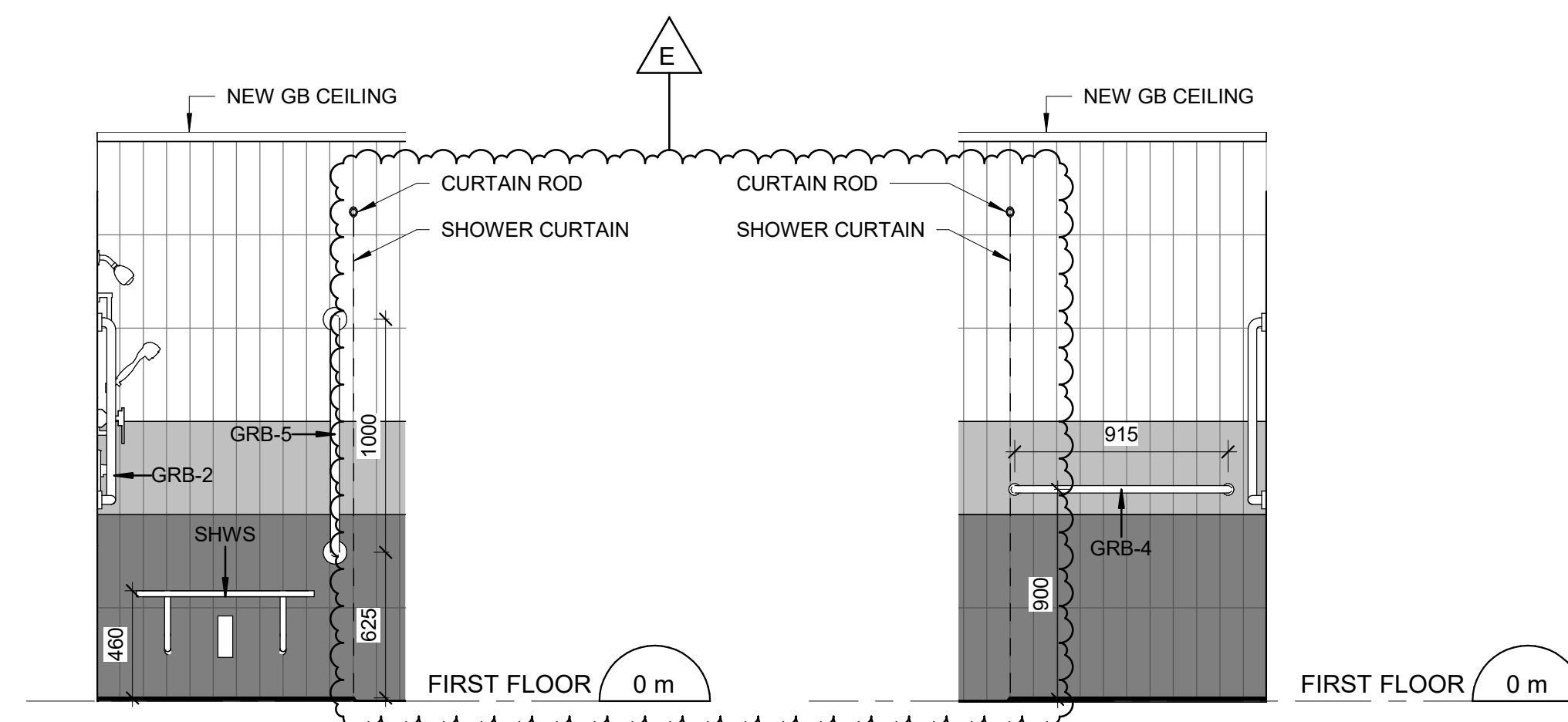
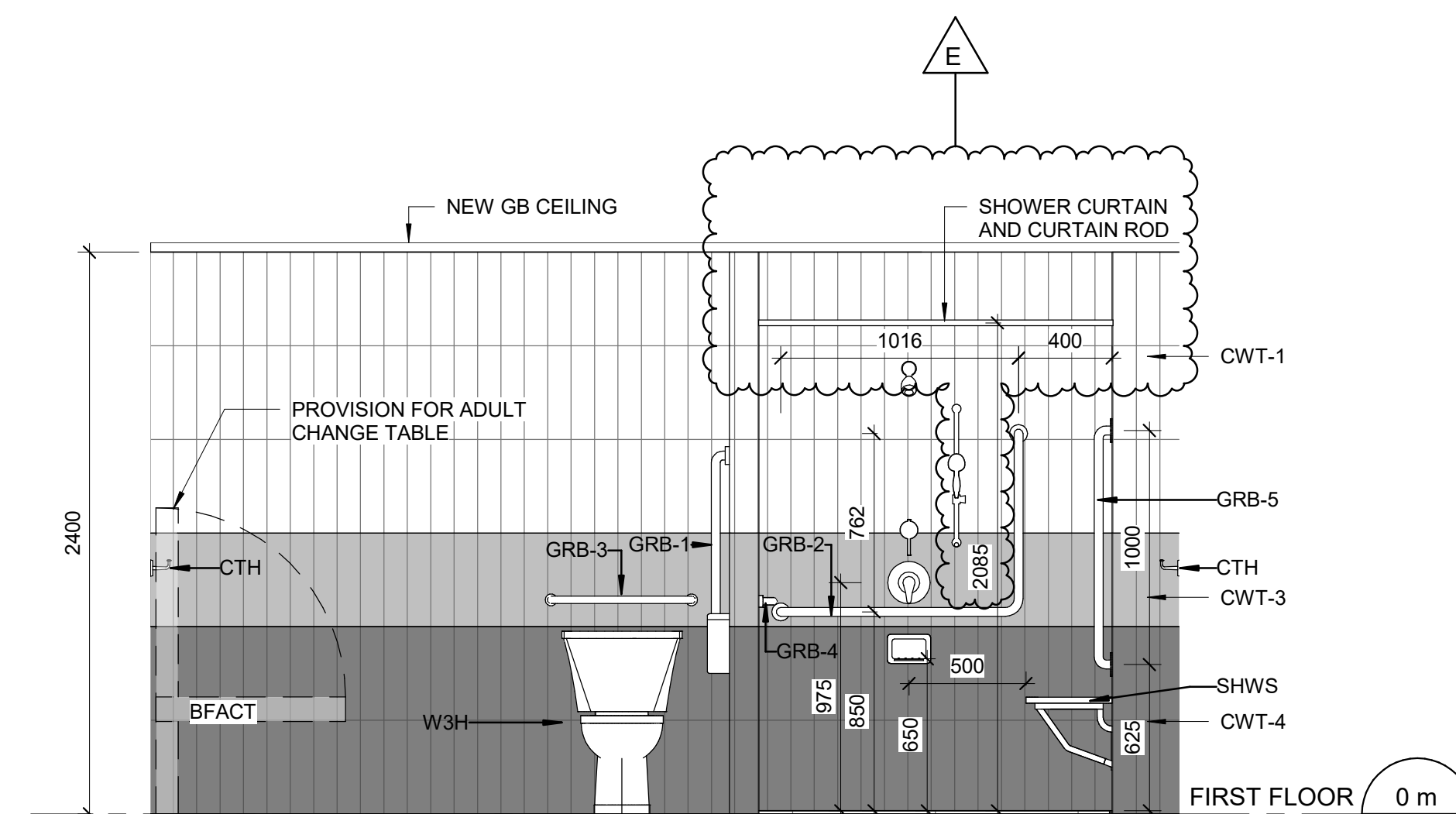
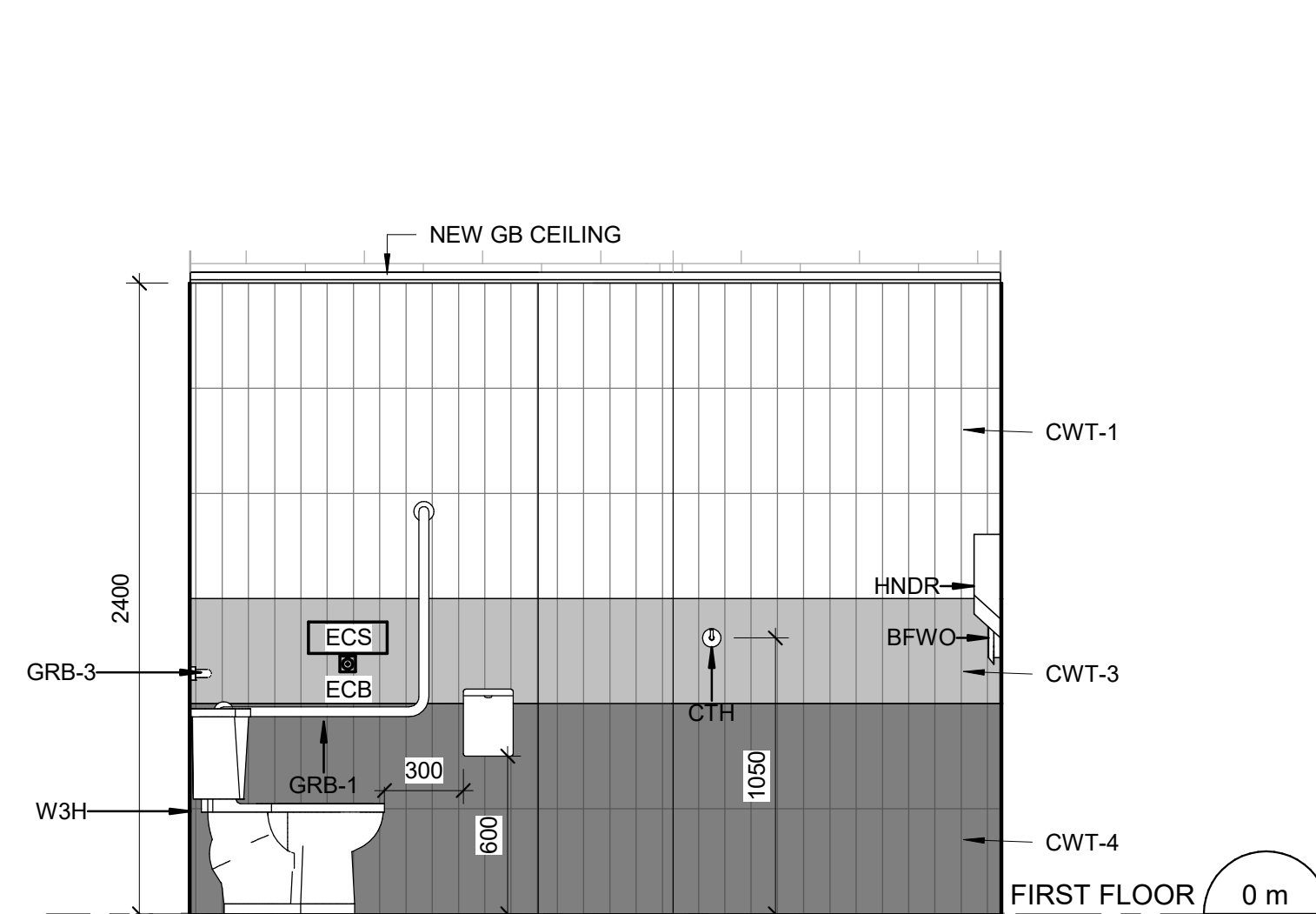
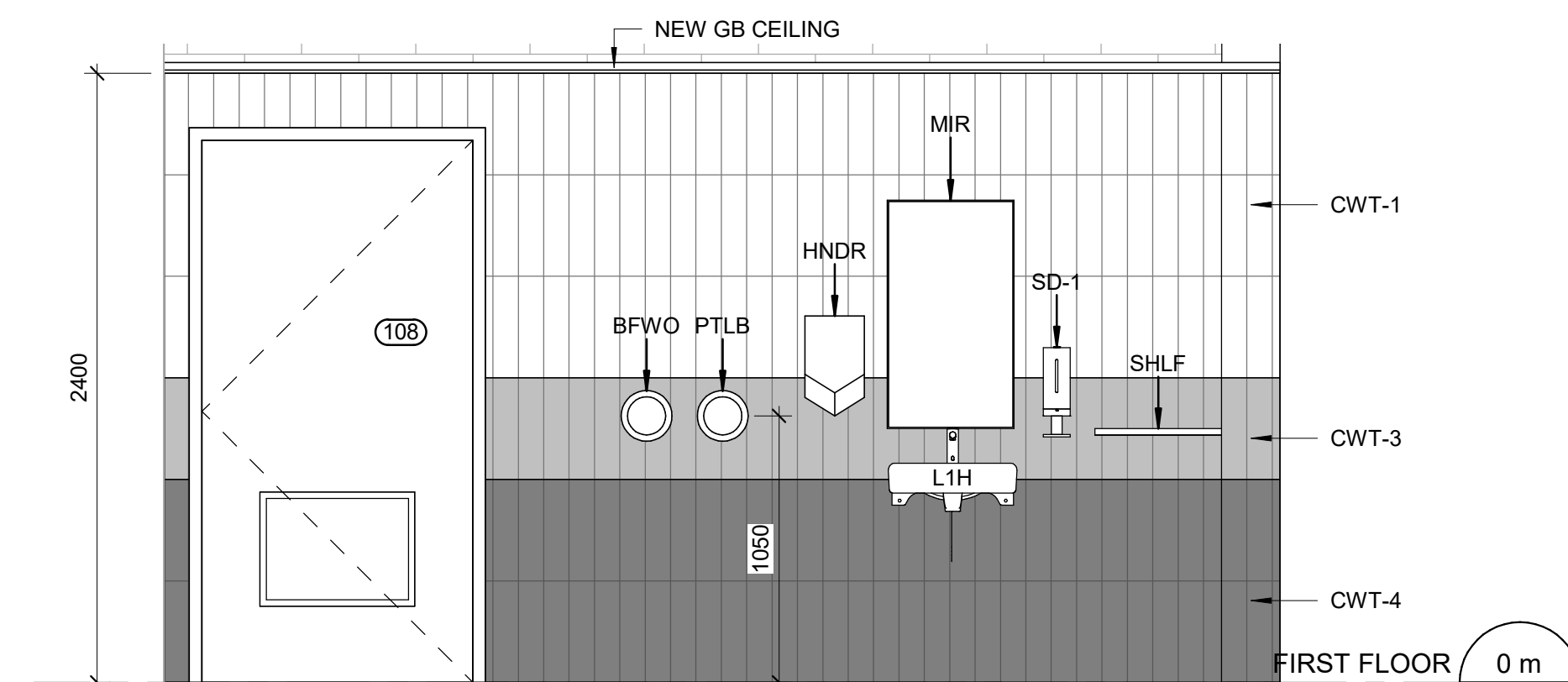
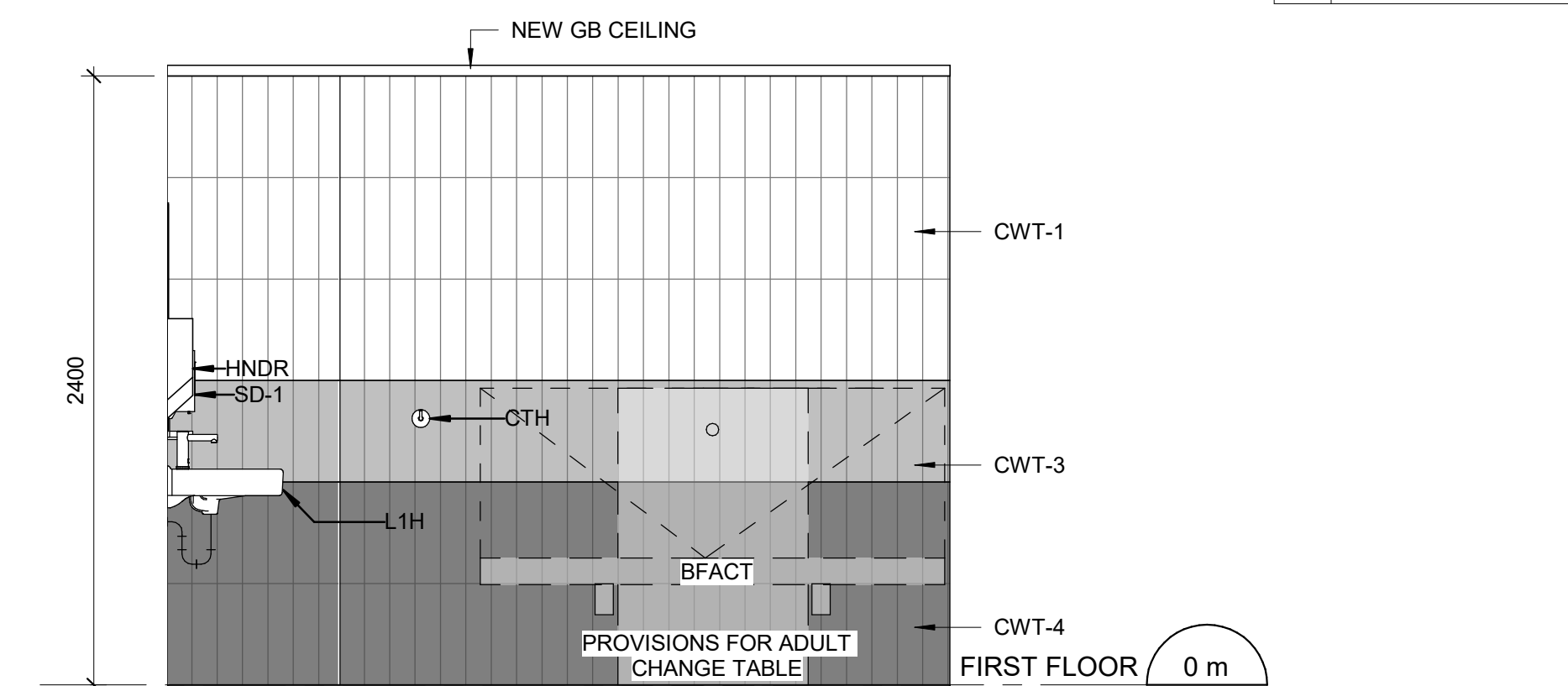
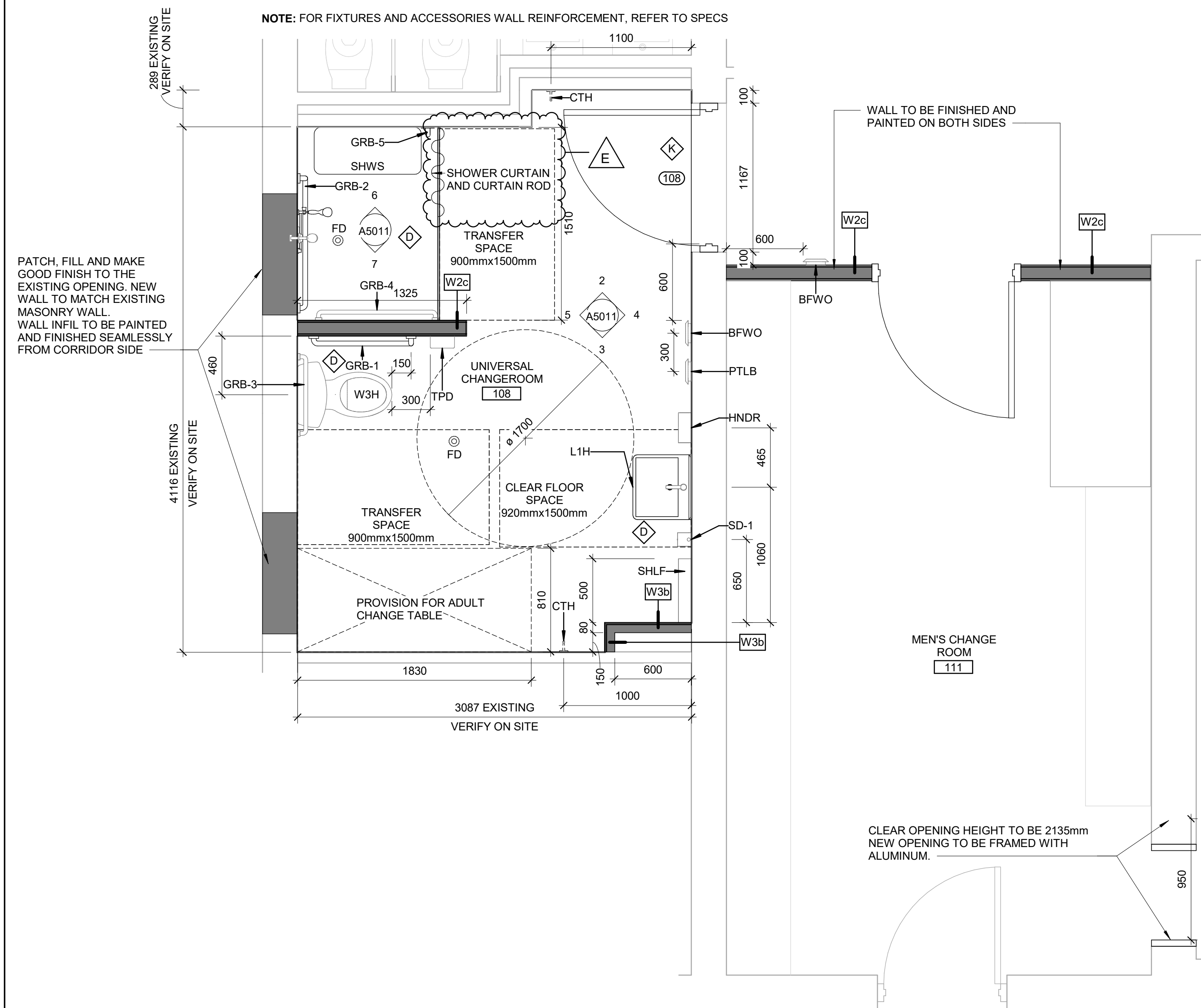
PROJECT NO:  
122260  
DRAWN BY:  
**A. BOYNARIAN**  
PROJECT MGR:  
**L. SOSA**  
CHECKED BY:  
**L. BANDIERA**  
APPROVED BY:  
**M. KOTBY**

SHEET TITLE  
**SECOND FLOOR  
DEMOLITION PLAN**

SHEET NUMBER  
**G29-310-A2121**  
ISSUE  
**E**







CONSTRUCTION KEY NOTES	
NO	DESCRIPTION
D	INSTALL NEW WASHROOM ACCESSORIES - REFER TO DETAILS 1/D1201, 2/D1201, 3/D1201, 4/D1201, 5/D1201.
K	INSTALL NEW DOOR AND FRAME. REFER TO DOOR SCHEDULE A9001, G0004 AND DOOR HARDWARE SCHEDULE IN THE SPECIFICATIONS.

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E	ADDENDUM 3	2022-03-25

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CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

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CLUB  
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AVENUE

PROJECT NO:	122260
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DRAWN BY: <b>A. BOYNARIAN</b>	CHECKED BY: <b>L. BANDIERA</b>
----------------------------------	-----------------------------------

PROJECT MGR: <b>J. SOSA</b>	APPROVED BY: <b>M. KOTRY</b>
--------------------------------	---------------------------------

E: 000A	M: R01B1
SHEET TITLE	
FIRST FLOOR UNIVERSAL	

FIRST FLOOR UNIVERSAL  
CHANGEROOM

ENLARGED PLAN

SHEET NUMBER	ISSUE
000 010 A5011	5

1. ALL EXISTING SOAP DISPENSERS AND MIRRORS TO BE LOWERED AS PER TADG.
2. ALL EXISTING WASHROOM ACCESSORIES TO BE INSTALLED AFTER RECEIVING NEW WALL TILE OR SPECIFIED FINISH, NEW SOAP COLLECTORS TO BE ADDED TO ALL SOAP DISPENSERS. LOCATION TO BE THE SAME AS EXISTING. HEIGHT TO BE AS PER TADG. REFER TO ARCHITECTURAL DETAIL BOOKLET.

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PROJECT ADDRESS

MARGARET'S HOUSING &  
COMMUNITY SUPPORT  
SERVICES

301 BROADVIEW AVE.

PROJECT NO:  
9119-19-0162 / IBI 122260

DRAWN BY:

DRAWN BY:

PROJECT MGR:

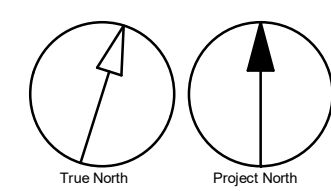
PROJECT MGR: <b>L. SOSA</b>	APPROVED BY: <b>M. KUO</b>
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SHEET TITLE

WASHROOM  
PLANS/ELEVATIONS

SHEET NUMBER  
G29-176-A5011

SSUE  
E



Scale 1:20



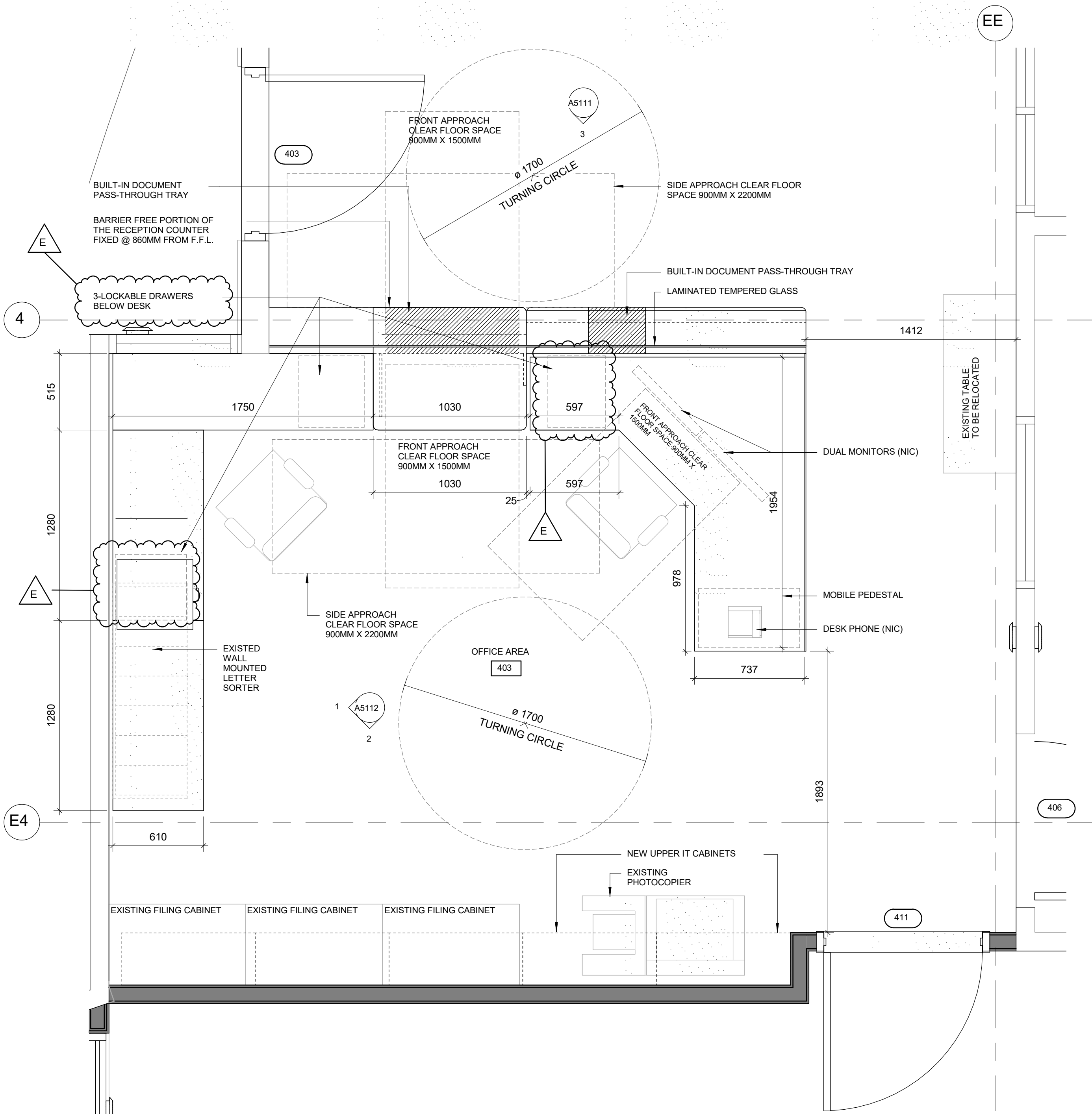
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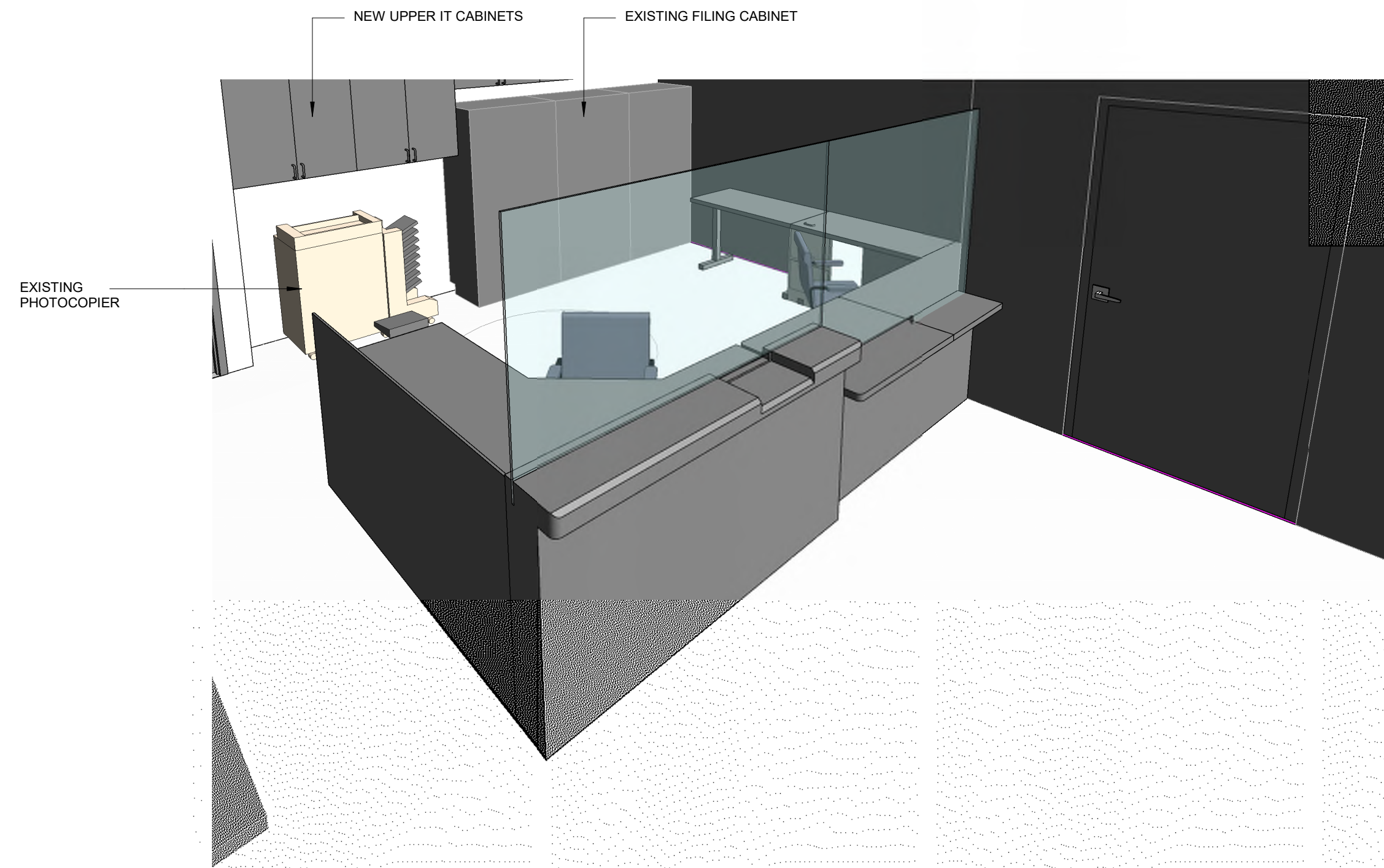
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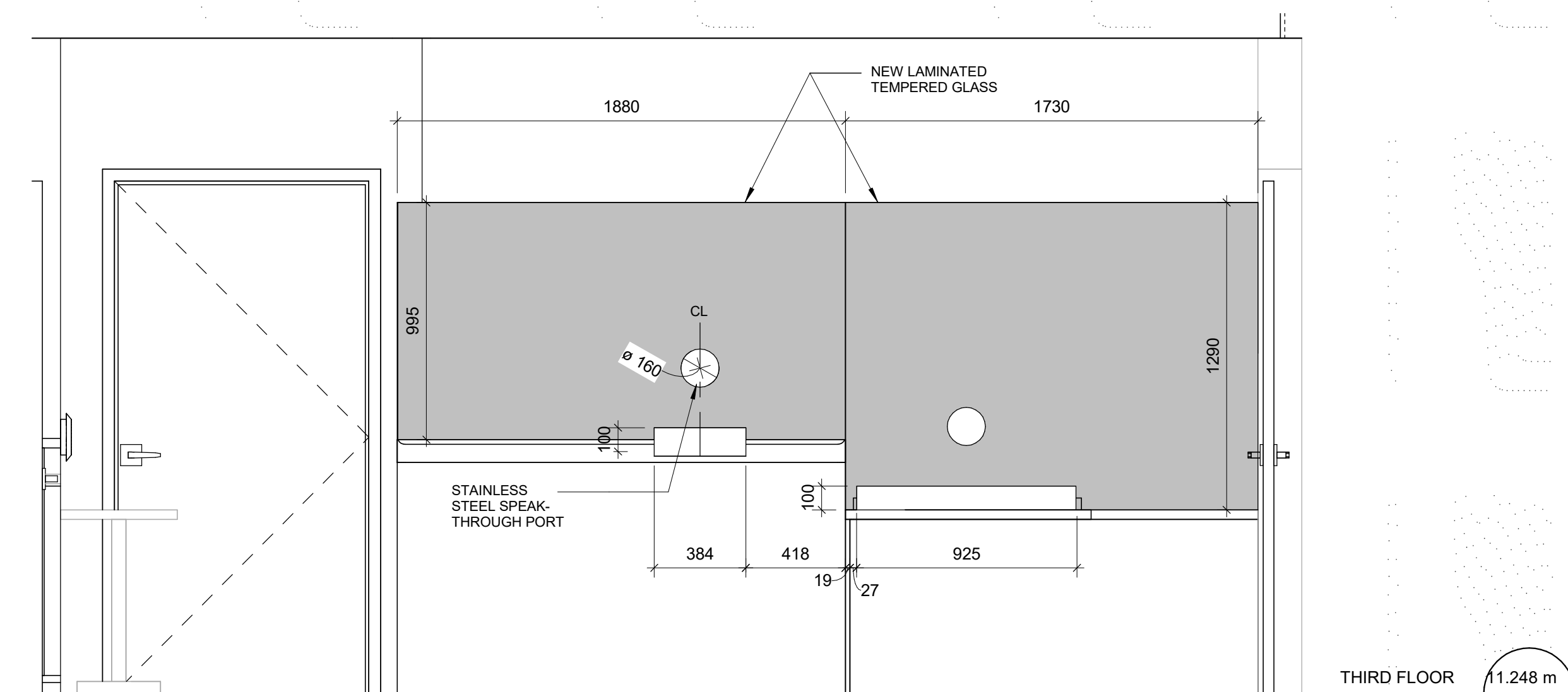
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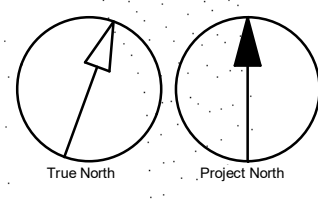
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A5111 Scale: 1 : 20



2 RECEPTION AREA 3D PERSPECTIVE  
A5111 Scale: NTS



3 THIRD FLOOR OFFICE AREA ELEVATION  
A5111 Scale: 1 : 20



NOTE:  
REFER TO DETAILS D1305 AND D1306 IN TYPICAL BOOKLET FOR  
ALL RECEPTION MILLWORK DETAILS

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PROJECT TITLE  
**CITY OF TORONTO  
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PROJECT ADDRESS  
**RALPH THORNTON  
COMMUNITY CENTRE &  
LIBRARY**  
765 QUEEN STREET EAST

PROJECT NO:  
9119-19-0162 / IBI 122260  
DRAWN BY:  
**R. ZAHIROVIC/S.W.K.B**  
CHECKED BY:  
**K. TILAHUN**  
PROJECT MGR:  
**L. SOSA**  
APPROVED BY:  
**M. KUO**

SHEET TITLE  
**ENLARGED RECEPTION  
AREA PLANS & 3D  
PERSPECTIVE**

SHEET NUMBER  
**G29-300-A5111**

ISSUE  
**E**

BM 380/122260 - CoT TAU Upgrades R2020122260-TAU-14-300-765QNSIE-A-R20.rvt  
1/16





1 SITE PLAN  
A1201 Scale: 1: 100



2 KEY PLAN  
A1201 Scale: NTS

SITE LEGEND



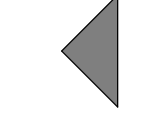
NEW BARRIER FREE PARKING  
SPACE - REFER TO DETAIL  
1/D1701 & 5/D1701



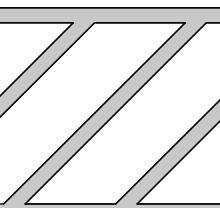
ACCESSIBLE PARKING SIGN ON  
POST - REFER TO DETAIL 2/D1702



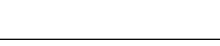
EXISTING MAIN ENTRANCE



EXISTING EXIT TO REMAIN



NEW PAINTED LINE MARKING  
DETAIL - REFER TO DETAIL 3/D1701



NEW PAINTED LINE MARKING  
DETAIL - REFER TO DETAIL 4/D1701



DASHED AREA INDICATES  
AREA OF WORK

SITE PLAN GENERAL NOTES

- 1 SITE PLAN DIMENSIONS ARE APPROXIMATE BASED ON GOOGLE MAPS. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING SITE SERVICES AND TO REPORT ANY DISCREPANCY TO THE CONSULTANT AND THE OWNER BEFORE COMMENCEMENT OF THE WORK.
- 2 DURING CONSTRUCTION, CONTRACTOR TO COORDINATE ENTRANCES WITH OWNER FOR HOARDING AND EXTERIOR FENCING. RESTORE EXTERIOR WALKWAY, DRIVEWAY, PAVING AND ALL SOFT LANDSCAPING MATERIAL AROUND ALL EXTERIOR EXCAVATED AREAS AFTER CONSTRUCTION AS NEEDED WITH THE SAME MATERIAL AND FINISH.
- 3 VERIFY ALL UNDERGROUND BURIED UTILITIES PRIOR TO DIGGING AND REPORT ANY CONFLICTS TO THE CONSULTANT.

DEMOLITION KEY NOTES

- | NO | DESCRIPTION   |
|----|---|
| 11 | REMOVE EXISTING GUARDRAIL, HANDRAIL AND HANDRAIL POST BASE. PATCH AND MAKE GOOD ALL SURFACES.   |
| 25 | DEMOLISH EXISTING CONCRETE RAMP. REMOVE DEBRIS AND PREPARE FOR NEW RAMP. PROVIDE SMOOTH TRANSITION BETWEEN SURFACES AND PROTECT SURROUNDING AREAS DURING THE WORK. PROVIDE PROTECT SURROUNDING AREAS DURING THE WORK. |

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C	PERMIT SUBMISSION	2021-12-17
D	ISSUED FOR TENDER	2022-02-16
E	ADDENDUM 03	2022-03-25

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PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

Fire Hall No. 324  
840 Gerrard St. E.

PROJECT NO:  
9119-19-0162 / IBI 22260

DRAWN BY:  
R. ZAHIROVIC / K.B.

CHECKED BY:  
K. TILAHUN

PROJECT MGR:  
L. SOSA

APPROVED BY:  
M. KUO

SHEET TITLE

SITE PLAN

SHEET NUMBER

G29-307-A1201

ISSUE

E

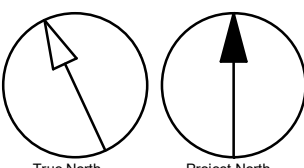






PHOTO 5



PHOTO 3



PHOTO 4



PHOTO 1



PHOTO 2

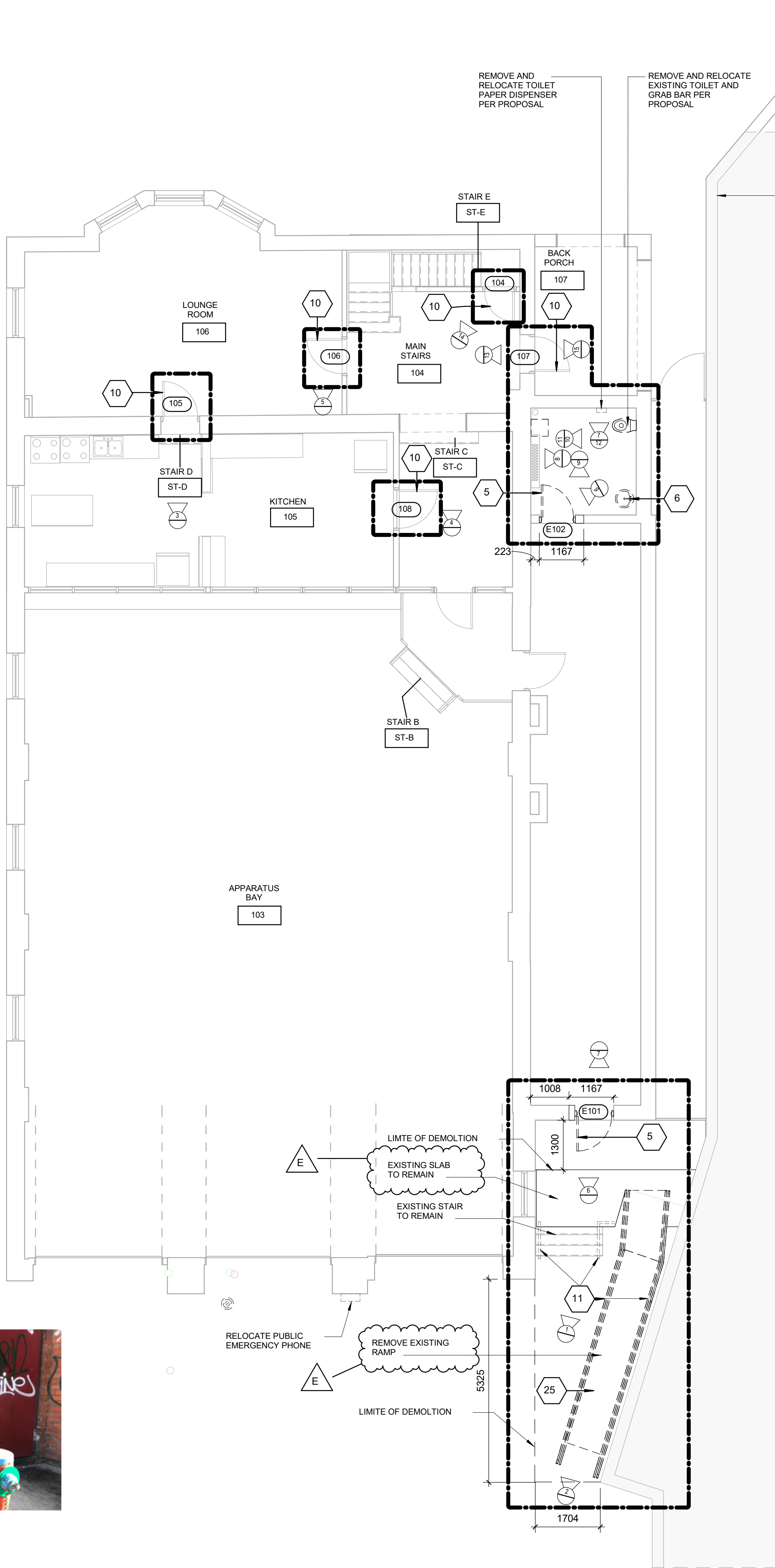


PHOTO 14



PHOTO 12



PHOTO 10



PHOTO 8



PHOTO 6

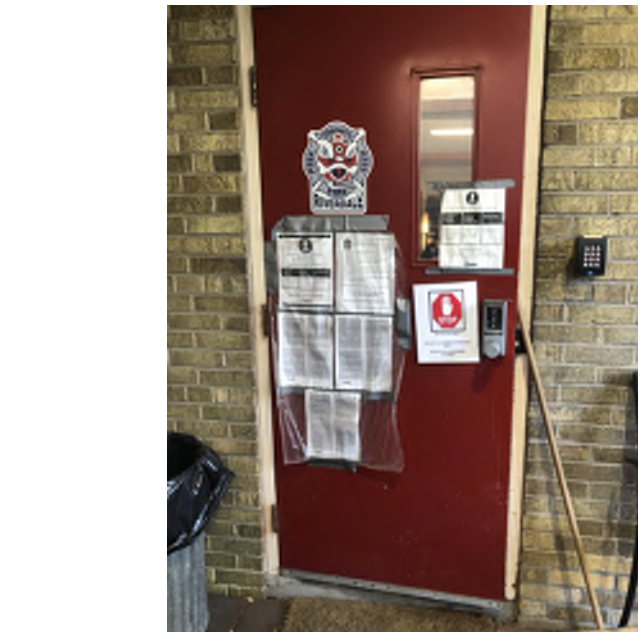


PHOTO 15



PHOTO 13



PHOTO 11



PHOTO 9



PHOTO 7

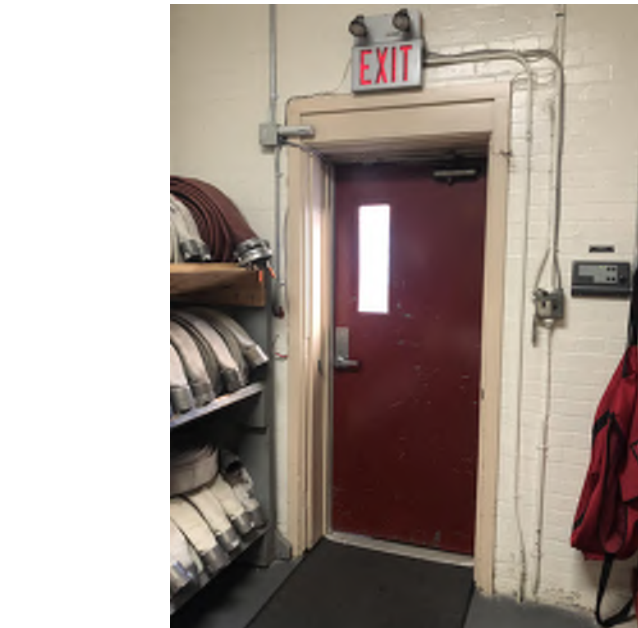


PHOTO 7

#### DEMOLITION KEY LEGEND

- EXISTING TO BE DEMOLISHED
- - - - - EXISTING INTERIOR PARTITION TO BE DEMOLISHED
- ===== EXISTING EXTERIOR WALL TO REMAIN
- ===== EXISTING PARTITION TO REMAIN
- - - - - EXISTING DOOR, FRAME, AND ASSOCIATED HARDWARE TO BE REMOVED
- - - - - EXISTING DOOR TO REMAIN
- [Dashed Area] DASHED AREA INDICATES AREA OF WORK

#### DEMOLITION GENERAL NOTES

- REMOVE ALL EXISTING TACTILE SURFACE INDICATORS (WALKING ATTENTION INDICATOR, TEXTURAL WARNING STRIP, NOSING STRIP AND HAZARD STRIP ON HANDRAIL) INCLUDING ADHESIVE MATERIAL AND FASTENING SYSTEM. MAKE GOOD SURFACE TO RECEIVE NEW TACTILE SURFACE INDICATORS IN LOCATIONS SHOWN. INCREASE DEPTH AND EXTENT OF EXISTING FLOOR DEPRESSIONS AND/OR CUT BACK EXISTING FLOOR FINISH AS APPLICABLE TO SUIT THE NEW INSTALLATION.

#### DEMOLITION KEY NOTES

- | NO | DESCRIPTION   |
|----|---|
| 5  | REMOVE EXISTING DOOR AND FRAME. CUT PARTITION TO ACCOMMODATE NEW DOOR AND FRAME IF REQUIRED. PATCH AND FILL AS REQUIRED. REFER TO DETAIL 1/D1002, 2/D1002 AND 1/D2300   |
| 6  | REMOVE EXISTING PLUMBING FIXTURES AND WASHROOM ACCESSORIES, CAP PLUMBING PIPES.   |
| 10 | REMOVE EXISTING DOOR HARDWARE AS INDICATED IN DOOR SCHEDULE A9001 AND HARDWARE SCHEDULE WITHIN SPECIFICATIONS.  |
| 11 | REMOVE EXISTING GUARDRAIL, HANDRAIL AND HANDRAIL POST BASE. PATCH AND MAKE GOOD ALL SURFACES.   |
| 25 | DEMOLISH EXISTING CONCRETE RAMP. REMOVE DEBRIS. REMOVE AND PREPARE FOR NEW RAMP. PROVIDE SMOOTH TRANSITION BETWEEN SURFACES AND PROTECT SURROUNDING AREAS DURING THE WORK. PROVIDE PROTECT SURROUNDING AREAS DURING THE WORK. |

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E	ADDENDUM 03	2022-03-25

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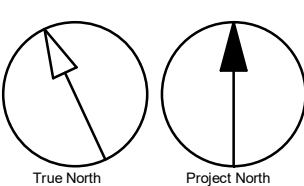
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PROJECT ADDRESS  
**Fire Hall No. 324  
840 Gerrard St. E.**

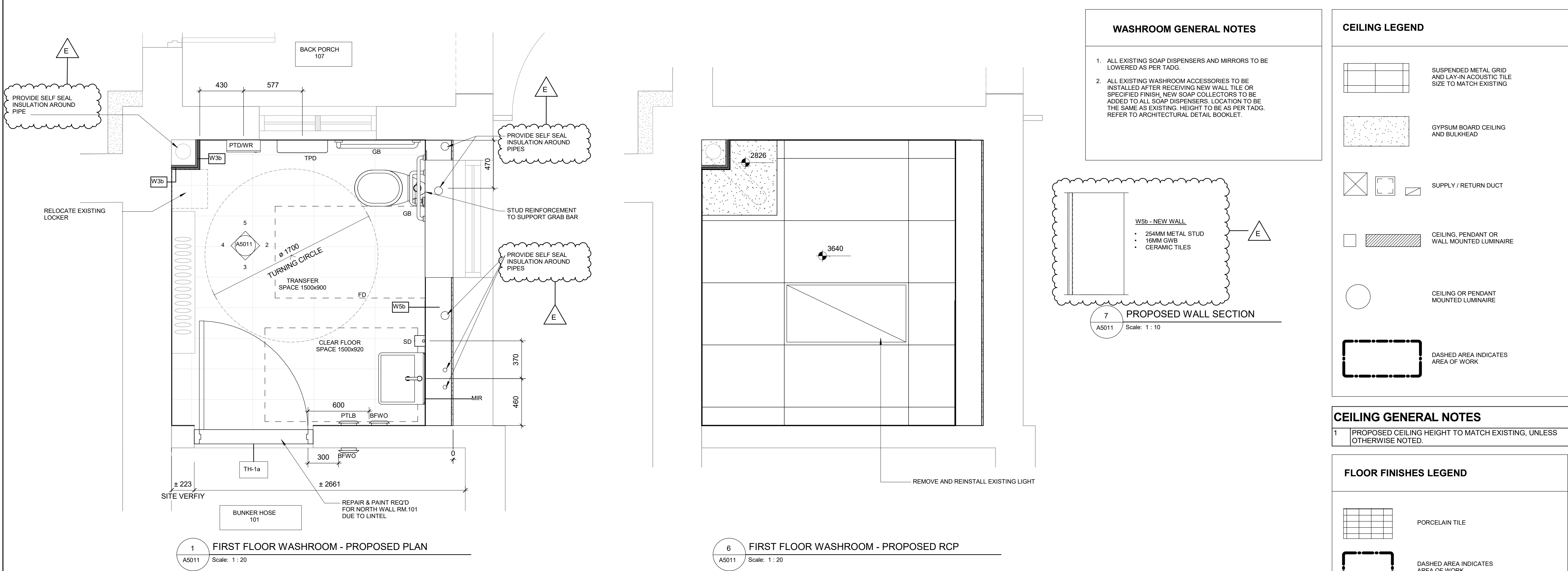
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DRAWN BY:  
**R. ZAHIROVIC / K.B.**  
PROJECT MGR:  
**L. SOSA**  
CHECKED BY:  
**K. TILAHUN**  
APPROVED BY:  
**M. KUO**

SHEET TITLE  
**FIRST FLOOR  
DEMOLITION PLAN**

SHEET NUMBER  
**G29-307-A2111**  
ISSUE  
**E**







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D	ISSUED FOR TENDER	2022-02-16
E	ADDENDUM 03	2022-03-25

**CEILING LEGEND**

- SUSPENDED METAL GRID AND LAY-IN ACOUSTIC TILE SIZE TO MATCH EXISTING
- GYPSUM BOARD CEILING AND BULKHEAD
- SUPPLY / RETURN DUCT
- CEILING, PENDANT OR WALL MOUNTED LUMINAIRE
- CEILING OR PENDANT MOUNTED LUMINAIRE
- DASHED AREA INDICATES AREA OF WORK

**CEILING GENERAL NOTES**

1 PROPOSED CEILING HEIGHT TO MATCH EXISTING, UNLESS OTHERWISE NOTED.

**FLOOR FINISHES LEGEND**

- PORCELAIN TILE
- DASHED AREA INDICATES AREA OF WORK

CONSULTANTS

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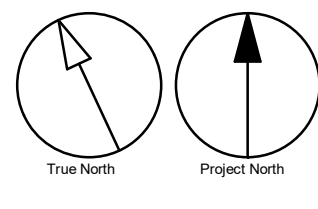
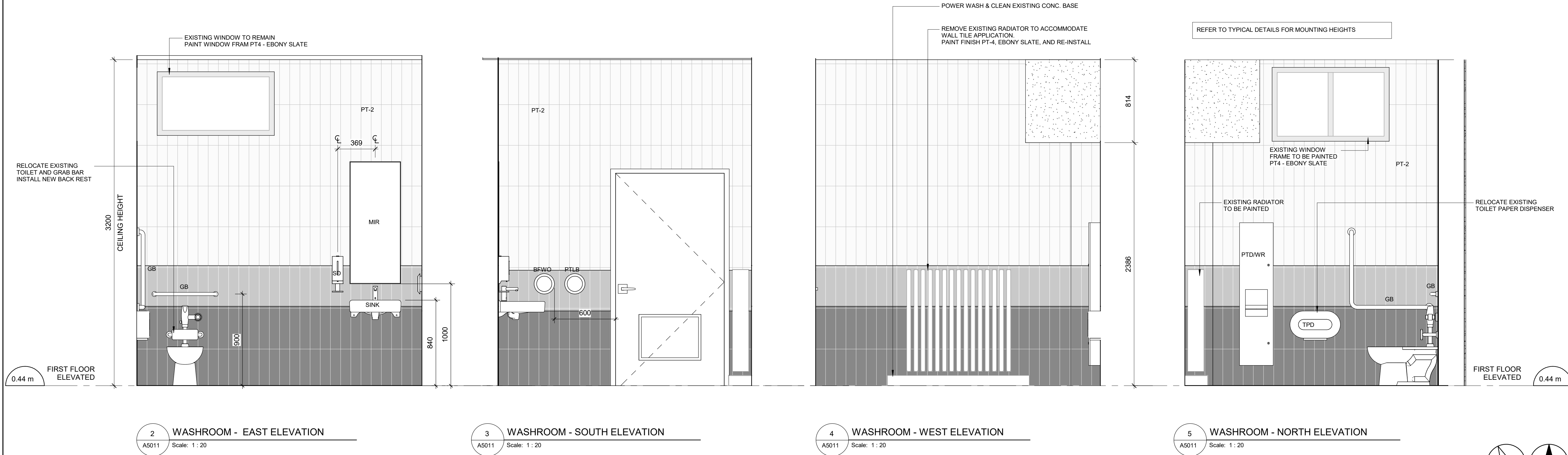
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ACCESSIBILITY UPGRADES

**PROJECT ADDRESS**  
  
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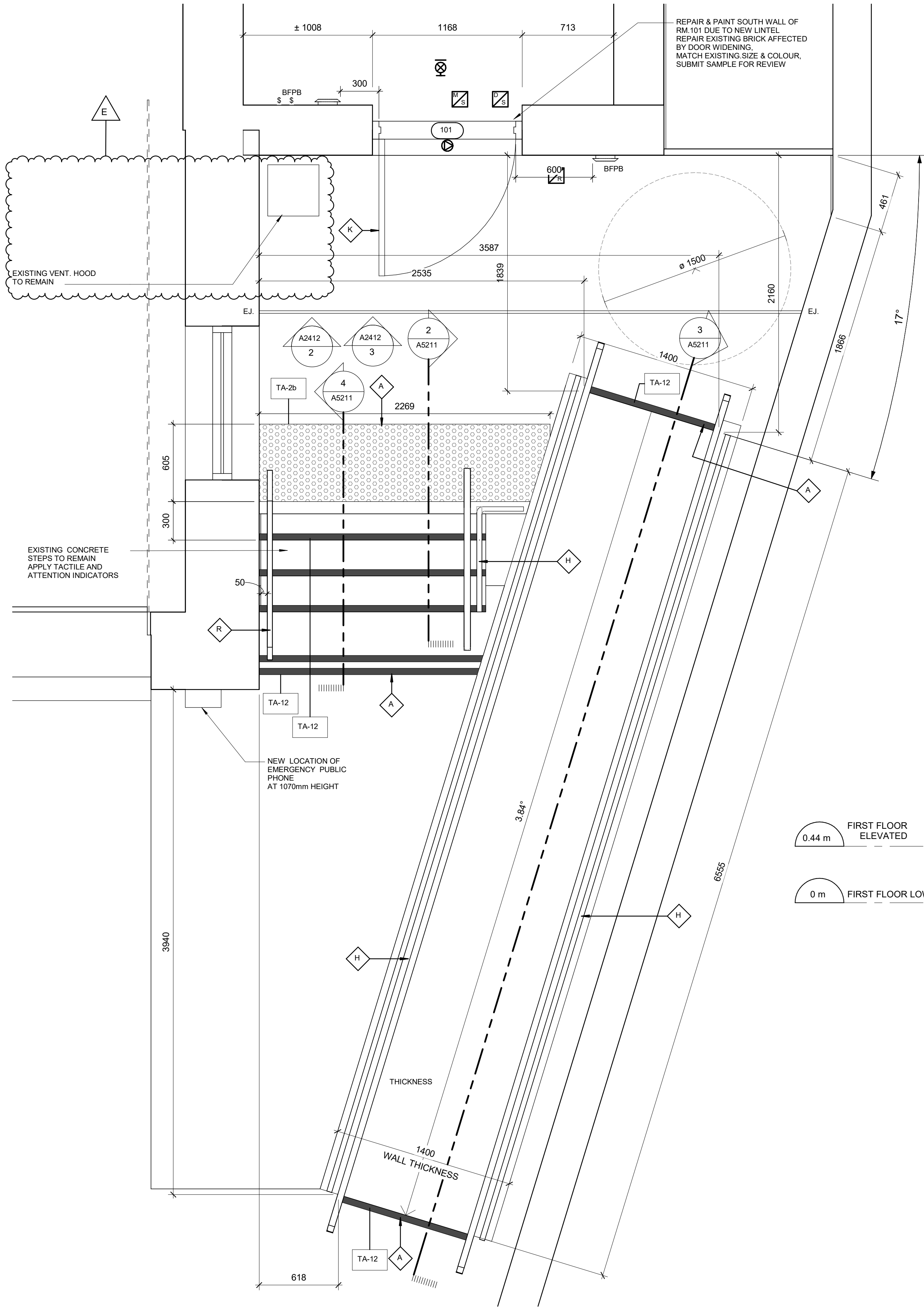
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9119-19-0162 / IBI 22260  
**DRAWN BY:**  
R. ZAHIROVIC / K.B.  
**CHECKED BY:**  
K. TILAHUN  
**PROJECT MGR:**  
L. SOSA  
**APPROVED BY:**  
M. KUO

**SHEET TITLE**  
WASHROOM PLANS/  
RCP/ ELEVATIONS

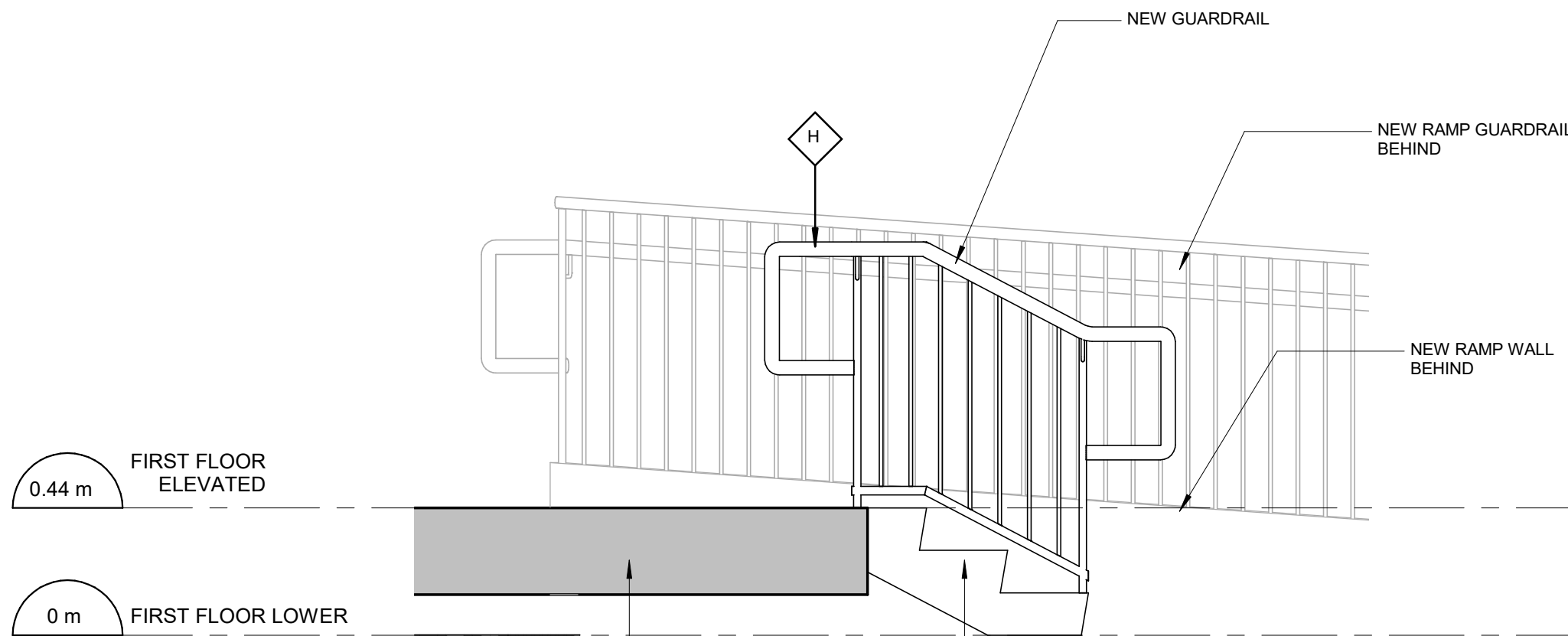
<b>SHEET NUMBER</b> G29-307-A5011	<b>ISSUE</b> E
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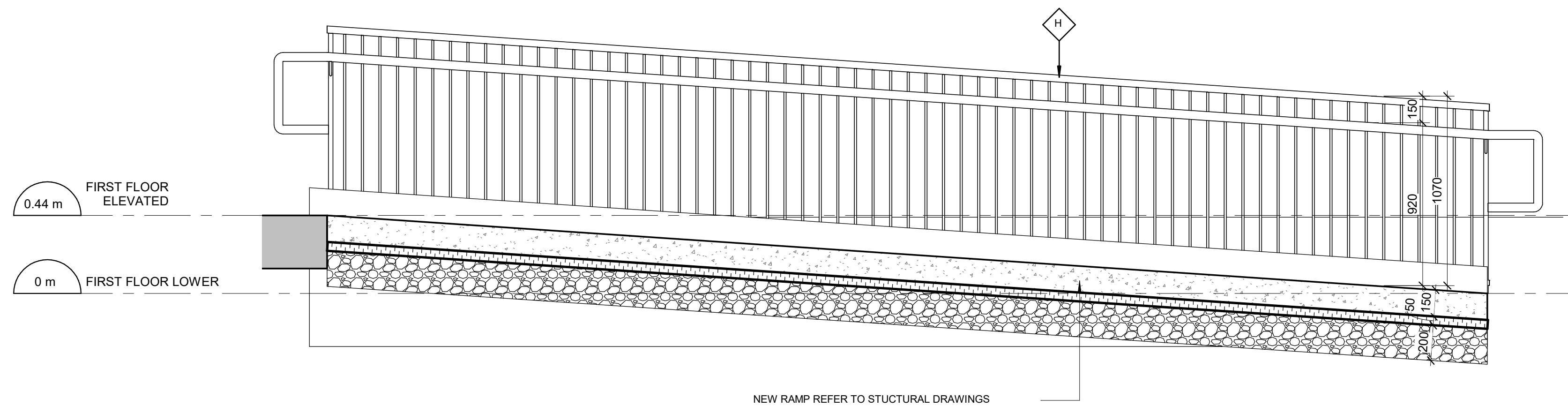
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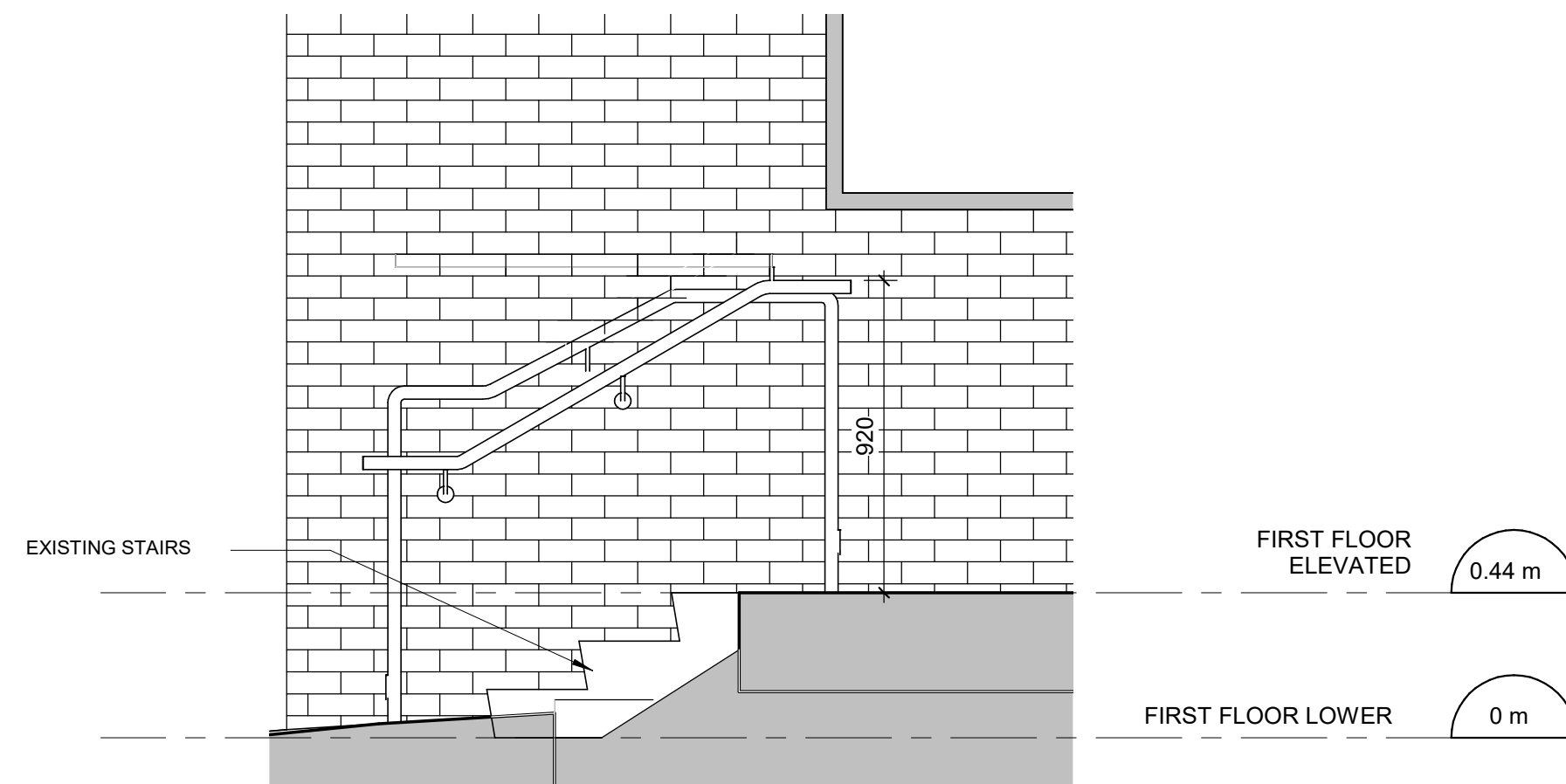
1 EXTERIOR STAIR & RAMP  
A5211 Scale: 1 : 20



2 ENTRANCE STAIR - SECTION  
A5211 Scale: 1 : 20



3 RAMP - SECTION  
A5211 Scale: 1 : 20



4 ENTRANCE STAIR - SECTION.  
A5211 Scale: 1 : 20

#### CONSTRUCTION KEY LEGEND

	EXISTING EXTERIOR WALL TO REMAIN
	EXISTING PARTITION TO REMAIN
	NEW EXTERIOR WALL REFER TO WALL SCHEDULE
	NEW PARTITION REFER TO PARTITION SCHEDULE
	EXISTING DOOR TO REMAIN
	NEW DOOR AND/ OR NEW HARDWARE
	DASHED AREA INDICATES AREA OF WORK

#### CONSTRUCTION GENERAL NOTES

- 1 NEW DOOR CARD READER AND BARRIER FREE PUSH BUTTON - REFER TO ELECTRICAL DRAWINGS. FOR LOCATION AND HEIGHT INSTALLATION REFER TO ARCHITECTURAL DETAIL BOOKLET.
- 2 REPAINT ENTIRE WALL AFTER WALL-MOUNTED HANDRAIL REPLACEMENT - UNLESS OTHERWISE NOTED. COLOUR AND FINISH TO MATCH EXISTING

#### CONSTRUCTION KEY NOTES

NO	DESCRIPTION
A	INSTALL TACTILE ATTENTION INDICATOR AND TACTILE WARNING STRIP - REFER TO TYPICAL DETAILS 1/D1402 AND 1/D1405.
H	INSTALL NEW GUARDRAIL AND HANDRAIL ON CONCRETE STAIR - REFER TO TYPICAL DETAILS 2/D1402, 1/D1404, 2/D1404.
K	INSTALL NEW DOOR AND FRAME. REFER TO DOOR SCHEDULE A9001, C0004 AND DOOR HARDWARE SCHEDULE IN THE SPECIFICATIONS.
R	INSTALL NEW HANDRAIL - REFER TO DETAILS 1/D1401, 3/D1401, 2/1403, 3/1403, 4/D1402.

CLIENT

CITY OF TORONTO

Corporate Real Estate Management  
Project Management Office  
Metro Hall Toronto, ON  
M5V 3C6

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ISSUES

No.	DESCRIPTION	DATE
A	50% SUBMISSION	2021-10-05
B	90% SUBMISSION	2021-12-17
C	PERMIT SUBMISSION	2021-12-17
D	ISSUED FOR TENDER	2022-02-16
E	ADDENDUM 03	2022-03-25

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ibigroup.com

PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

Fire Hall No. 324  
840 Gerrard St. E.

PROJECT NO:  
9119-19-0162 / IBI 22260

DRAWN BY: R. ZAHIROVIC / K.B.	CHECKED BY: K. TILAHUN
PROJECT MGR: L. SOSA	APPROVED BY: M. KUO

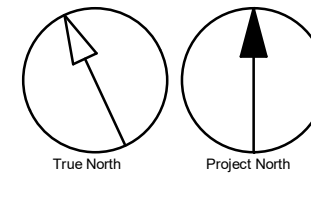
SHEET TITLE  
STAIR & RAMP - PLAN/  
SECTION

SHEET NUMBER

G29-307-A5211

ISSUE

E



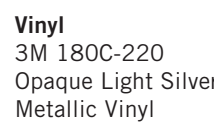
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Scale: 1:20



ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
1234567890

**ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**abcdefghijklmnopqrstuvwxyz**  
**1234567890**

Figure 1 consists of two 10x10 grids of points. The top grid shows a sparse configuration of points, with some points missing, particularly in the center and along the right edge. The bottom grid shows a dense configuration of points, with most points present, except for a few missing points in the center and along the right edge.



**FRONT VIEW**

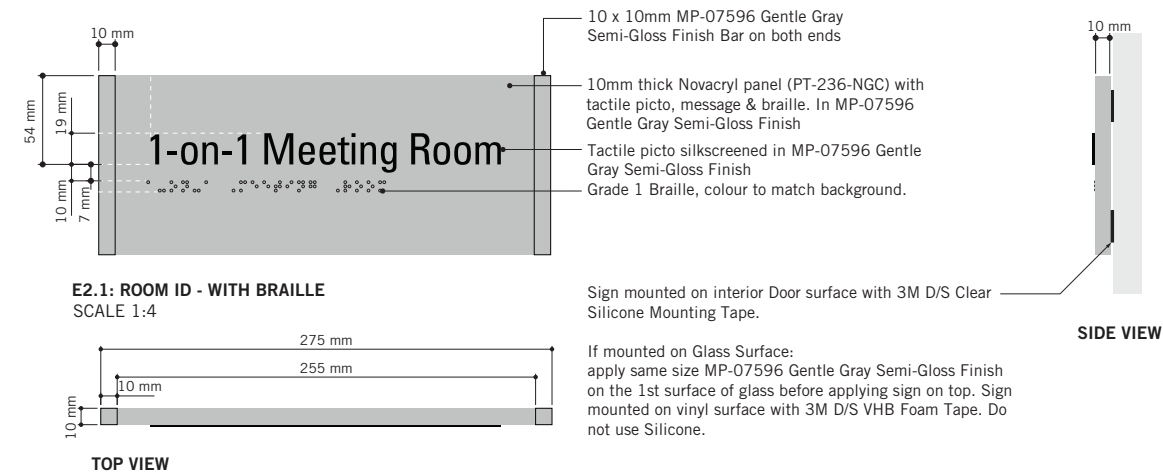
- Dimensions: 60 mm (height), 195 mm (width)
- Callouts:
  - Zinc flake color panel (PP-236-MC2) with tactile graphics, message & icons.
  - Surface and letters painted in Matthews Paint MPD-11821 white semi-gloss Finish on the 1st surface.
  - Tactile graphics, message and icon painted in MPD-11821 white semi-gloss Finish on the 1st surface.
  - Do not use STAMP PAINT for Exterior signs, here is no paint!
  - Grade 1 Braille, color to match background.

**TOP VIEW**

- Dimensions: 195 mm (width), 7 mm (thickness)

**SIDE VIEW**

**H-3 ACCESSIBLE ENTRANCE - EXTERIOR**  
SCALE: 1:3



Note:  
Typical colours for all Toronto Police  
Service Standards building upgrades.

ISSUE

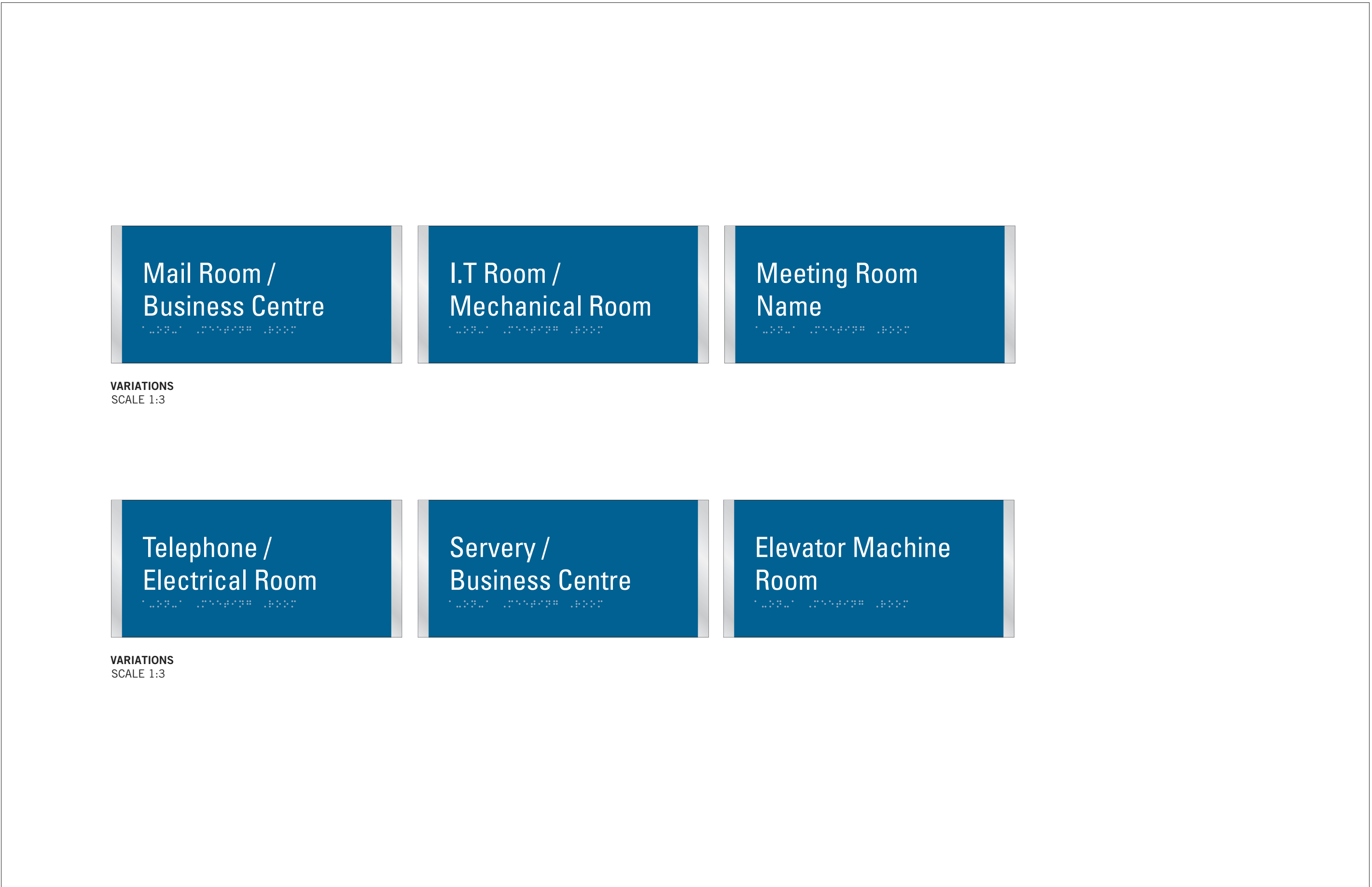
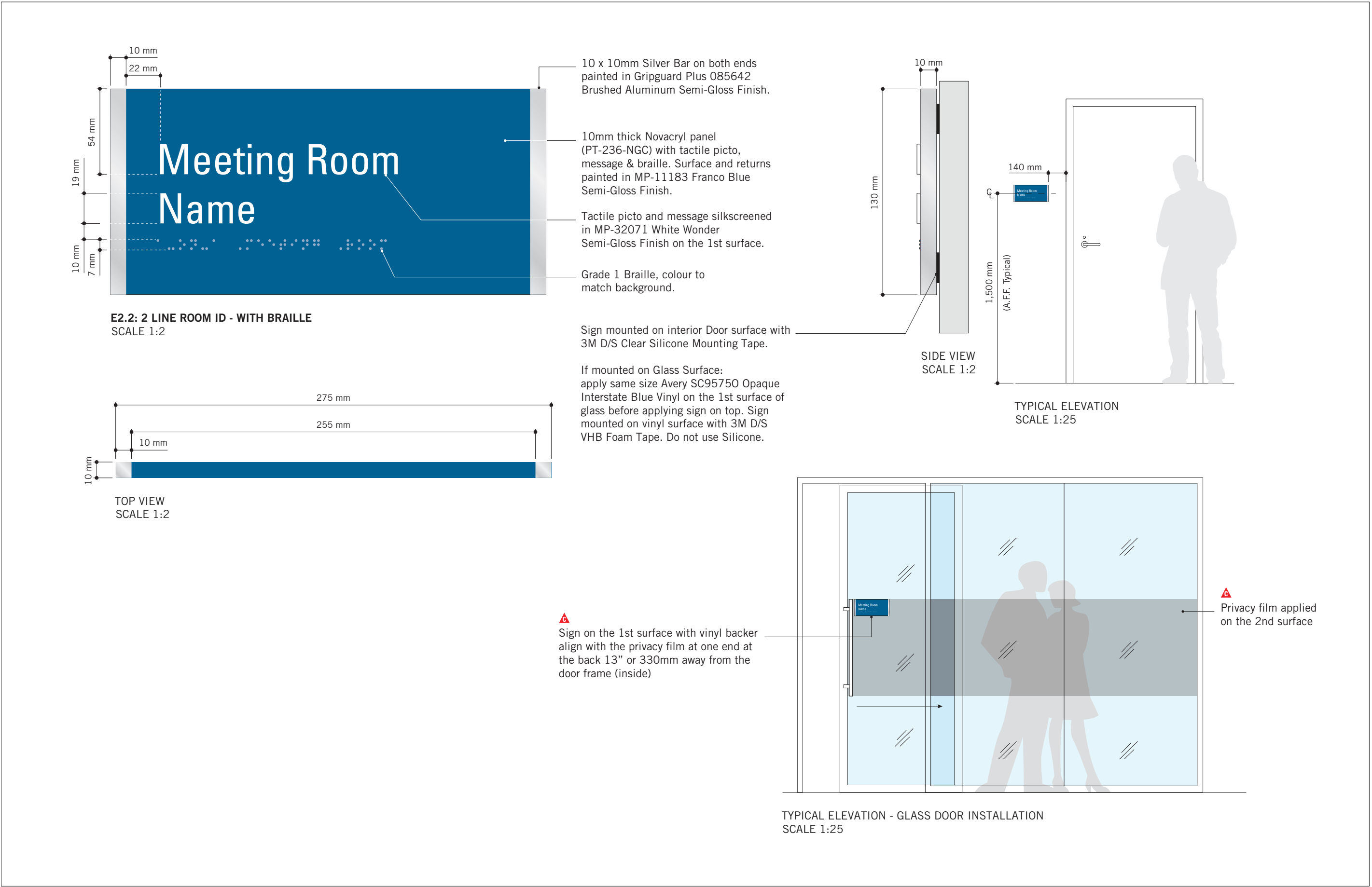
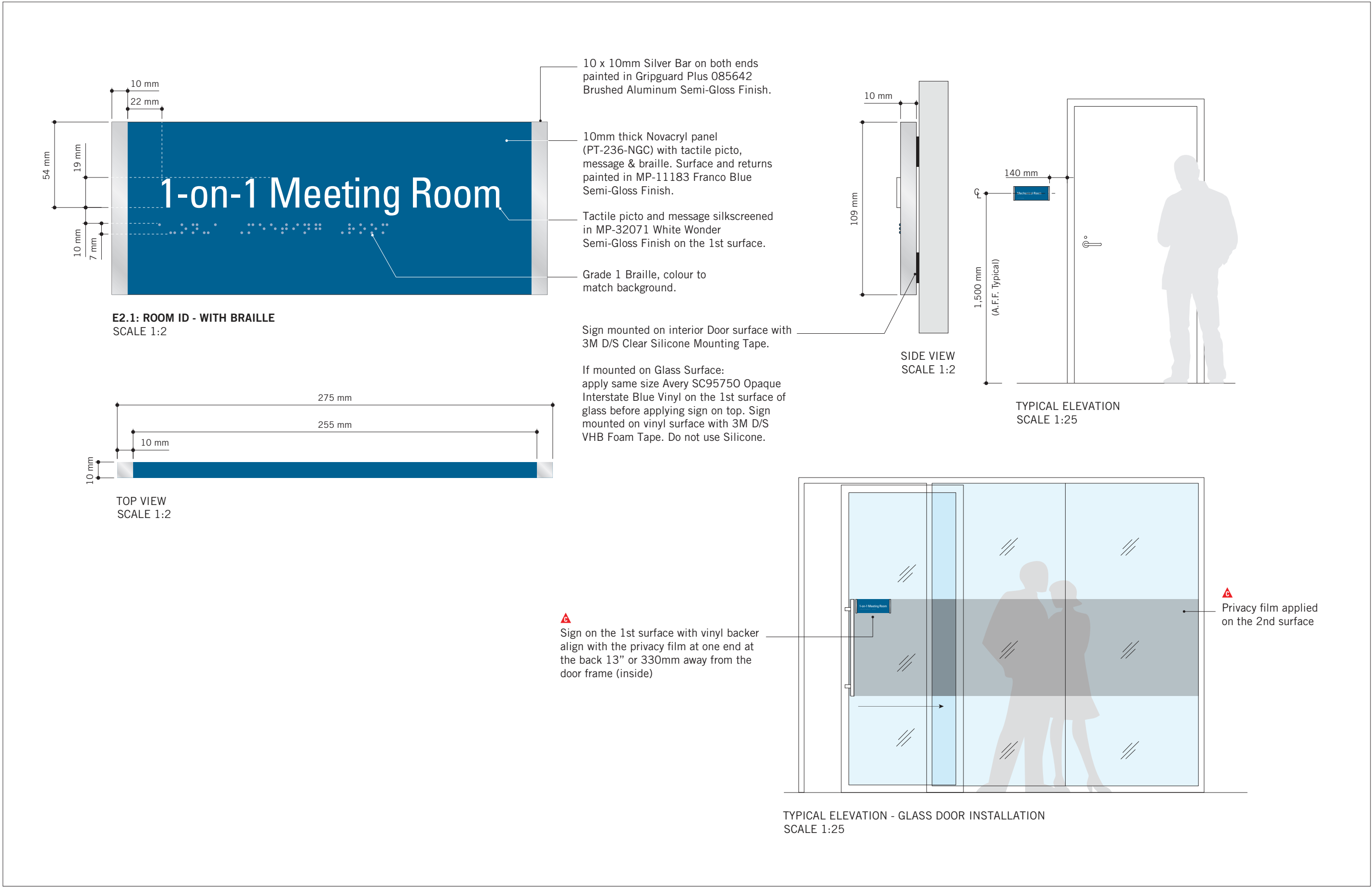
C:\Users\lara.boynarian\Desktop\TAU-G31- 100 QUEEN ST WEST - CITY HALL.m

10mm

**HECK**








CLIENT

CITY OF TORONTO



55 John ST.  
TORONTO, ON  
M5V 3C6

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ISSUES


No.	DESCRIPTION	DATE
A	90% SUBMISSION	2021-12-17
B	ISSUED FOR TENDER	2022-02-16
C	ADDENDUM #3	2022-03-25

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[ibigroup.com](http://ibigroup.com)

PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

GROUP 29 BUILDINGS

PROJECT NO:

9119 – 19 – 0162 / IBI 122260

DRAWN BY:

**M.LOW**

CHECKED BY:

**C.D. SCHNOBB**

PROJECT MGR:

**R. DALY**

APPROVED BY:

SHEET TITLE

SIGNAGE & WAYFINDING  
DETAILS  
E2: ROOM ID

SHEET NUMBER

D1903

ISSUE

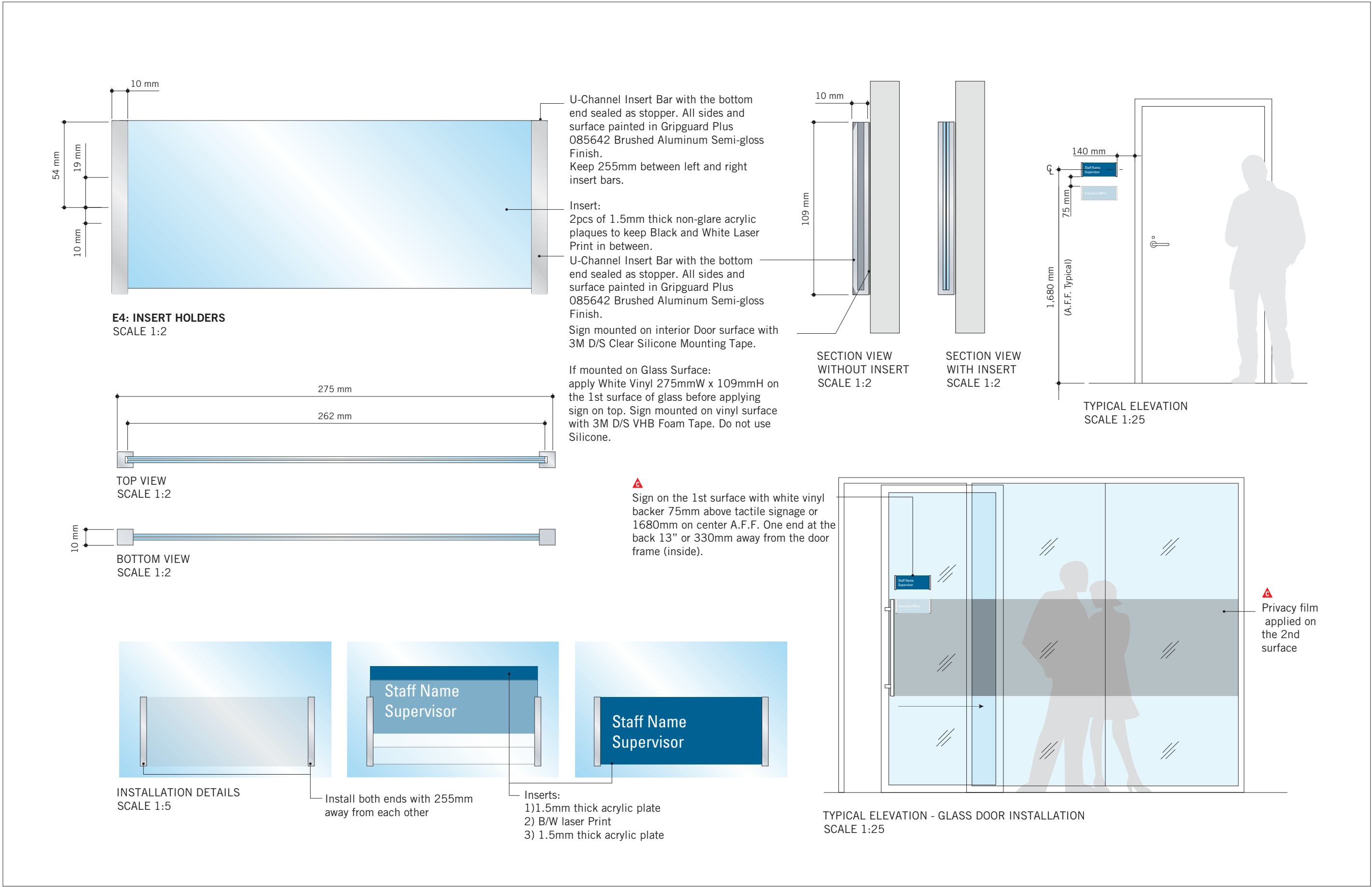
C

C:\Users\ana.boyanlian\Desktop\TAU-G31-100 QUEEN ST WEST - CITY HALL.rvt

1 of 1


1/25mm





CLIENT

CITY OF TORONTO



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TORONTO, ON  
M5V 3C6

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ISSUES

No.	DESCRIPTION	DATE
A	90% SUBMISSION	2021-12-17
B	ISSUED FOR TENDER	2022-02-16
C	ADDENDUM #3	2022-03-25


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PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

GROUP 29 BUILDINGS

PROJECT NO:

9119 – 19 – 0162 / IBI 122260

DRAWN BY:

M.LOW

CHECKED BY:

C.D. SCHNOBB

PROJECT MGR:

R. DALY

APPROVED BY:

SHEET TITLE

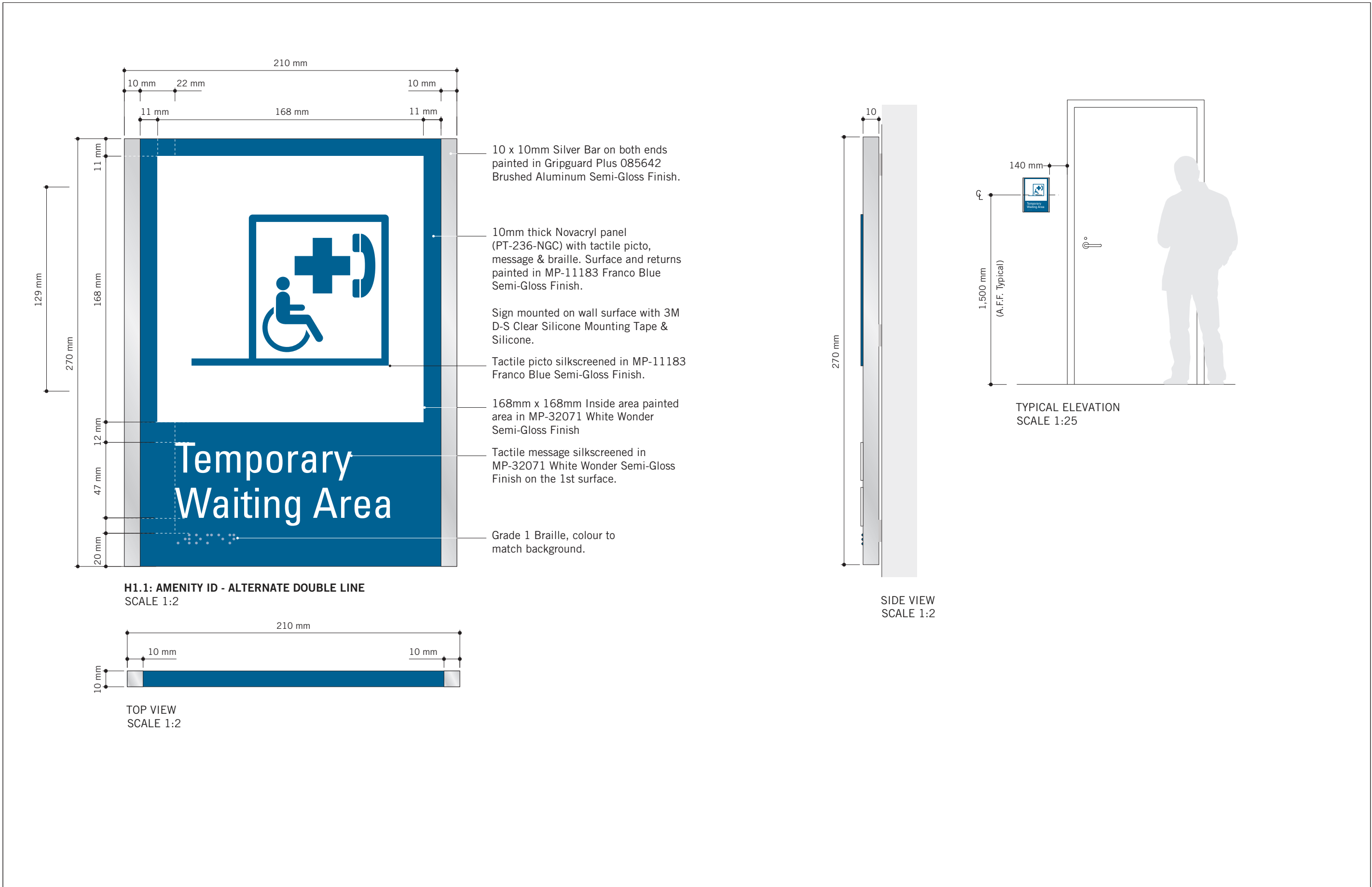
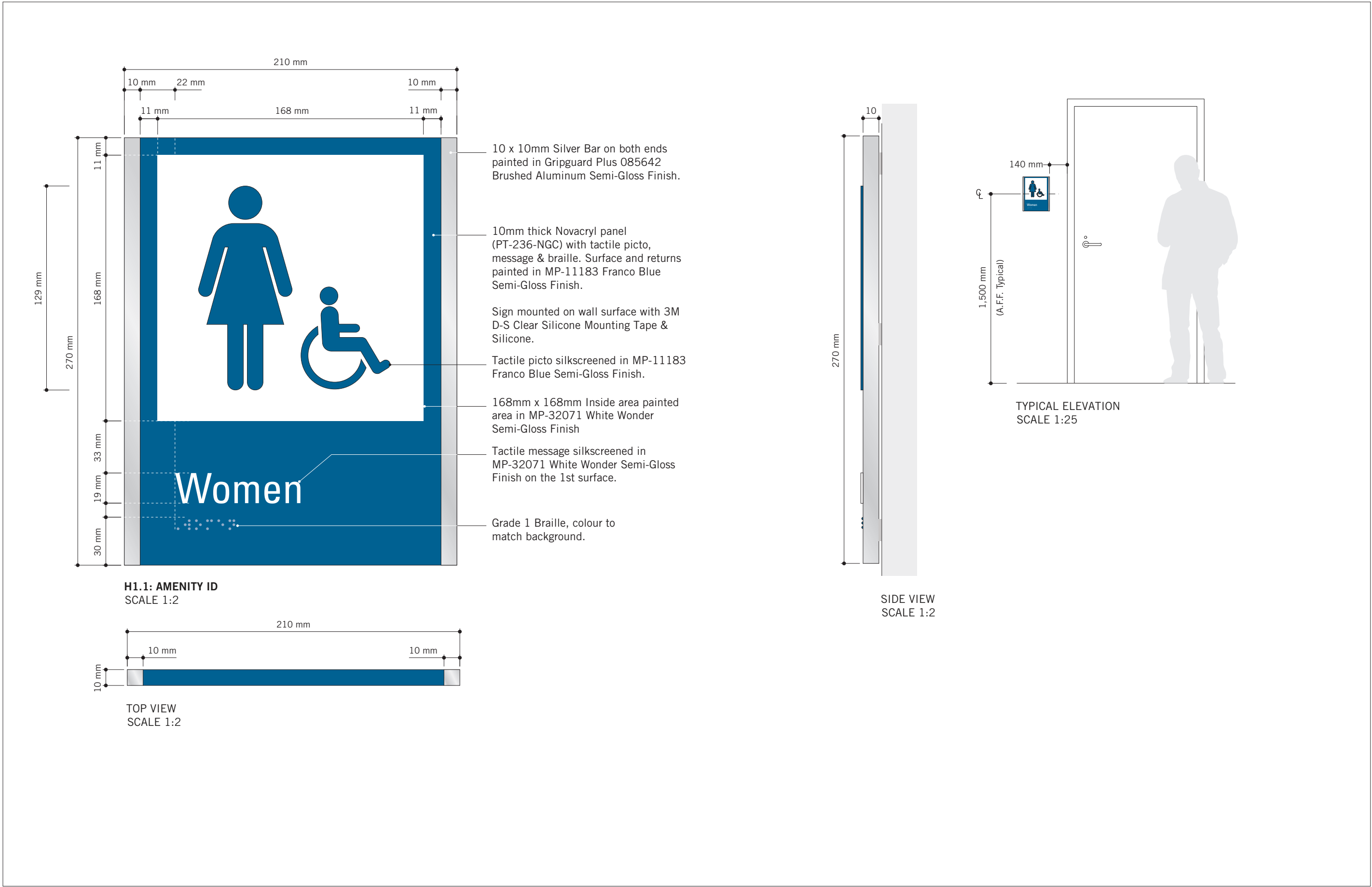
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DETAILS  
E4: INSERT HOLDER

SHEET NUMBER

D1904

ISSUE

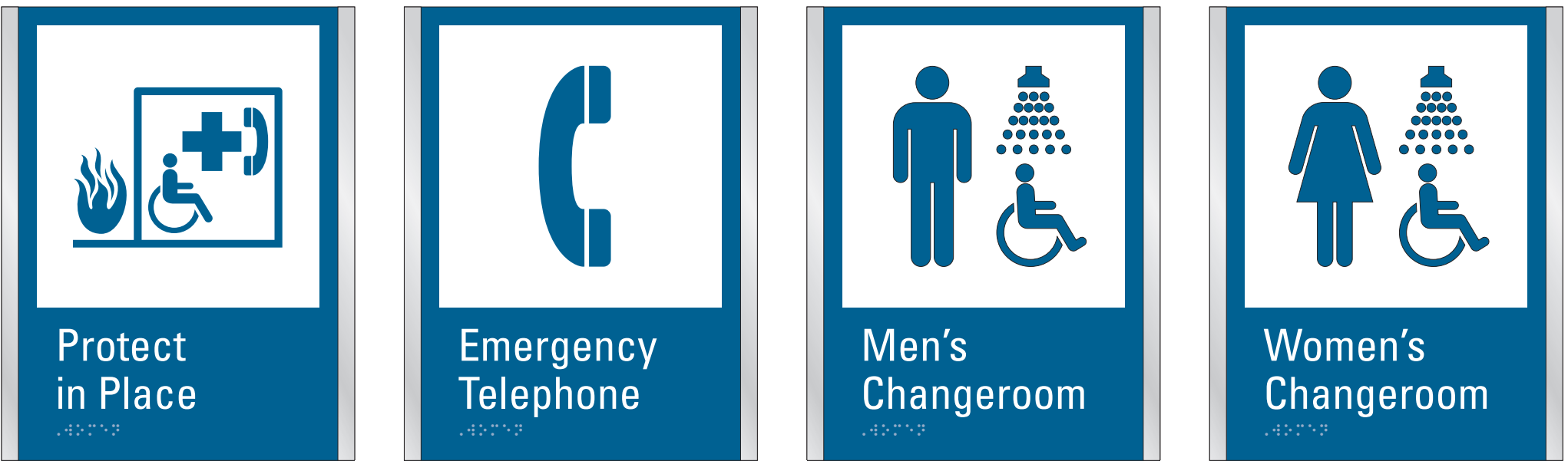
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VARIATIONS  
SCALE 1:3



VARIATIONS  
SCALE 1:3



VARIATIONS  
SCALE 1:3



ISSUES		
No.	DESCRIPTION	DATE
A	90% SUBMISSION	2021-12-17
B	ISSUED FOR TENDER	2022-02-16
C	ADDENDUM #3	2022-03-25

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**GROUP 29 BUILDINGS**

PROJECT NO:  
9119 – 19 – 0162 / IBI 122260

DRAWN BY:  
**M.LOW**

CHECKED BY:  
**C.D. SCHNOBB**

PROJECT MGR:  
**R. DALY**

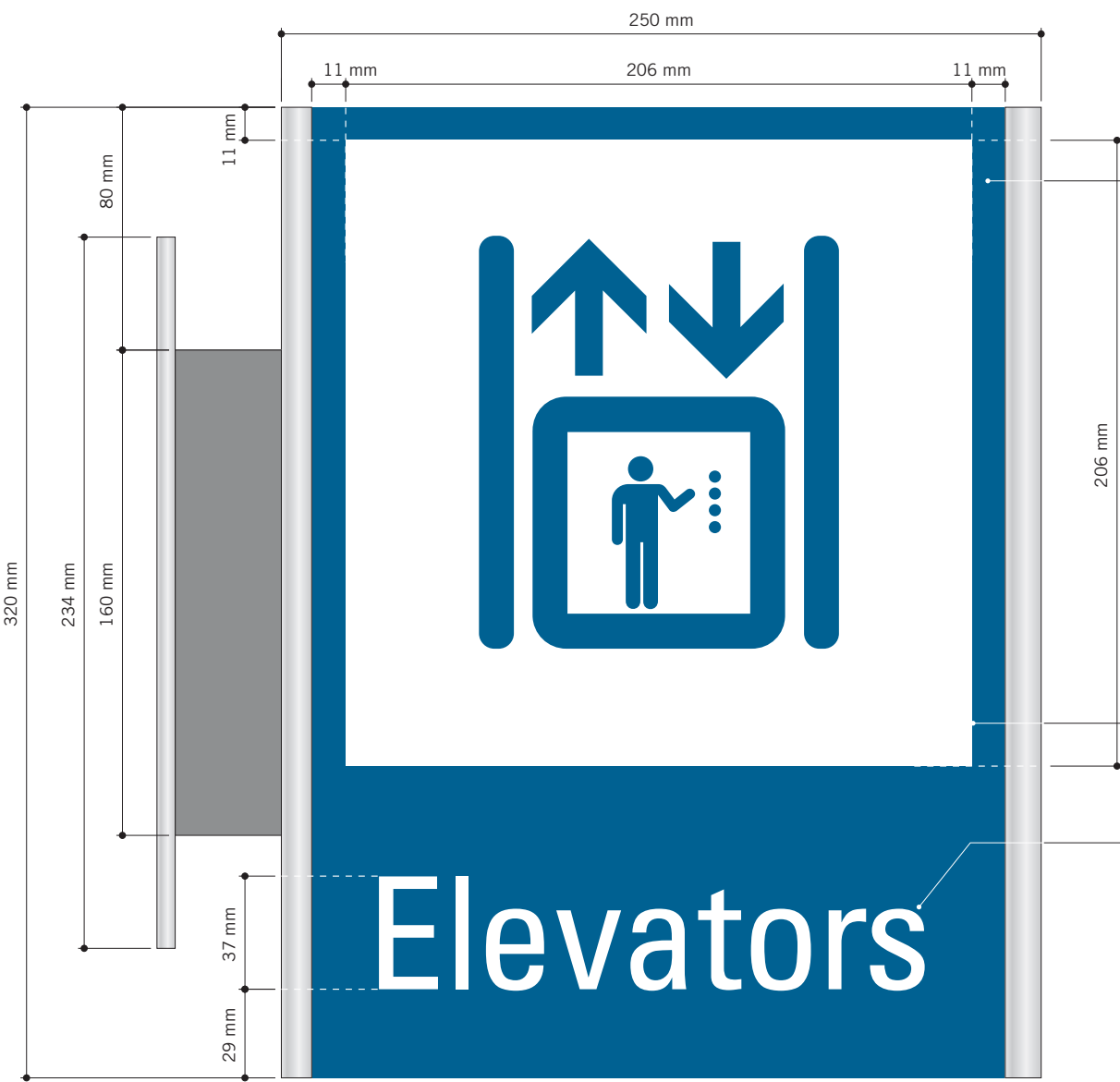
APPROVED BY:

SHEET TITLE  
**SIGNAGE & WAYFINDING  
DETAILS**

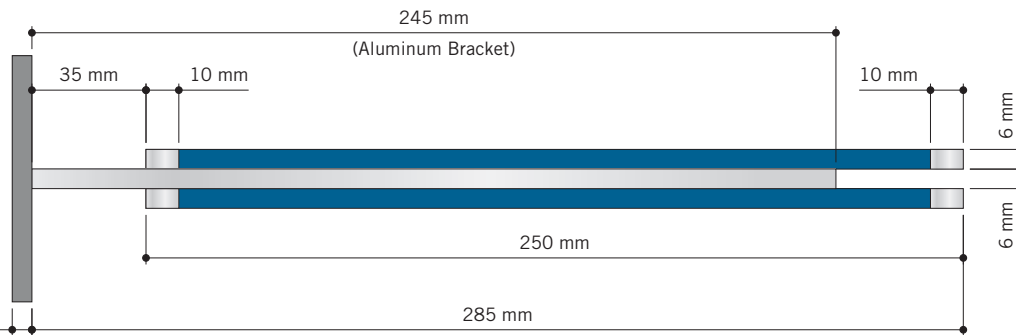
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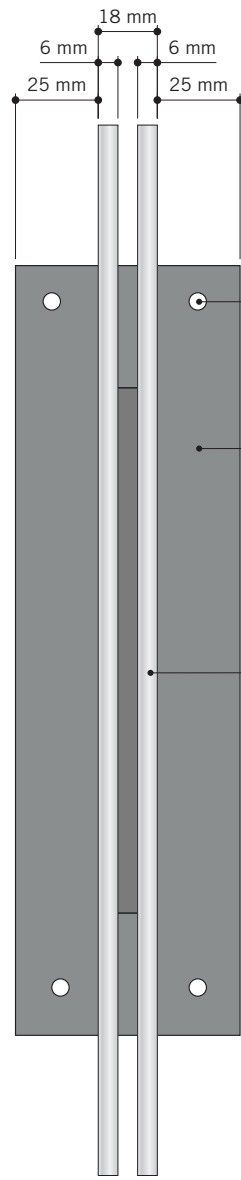
ISSUE  
**C**



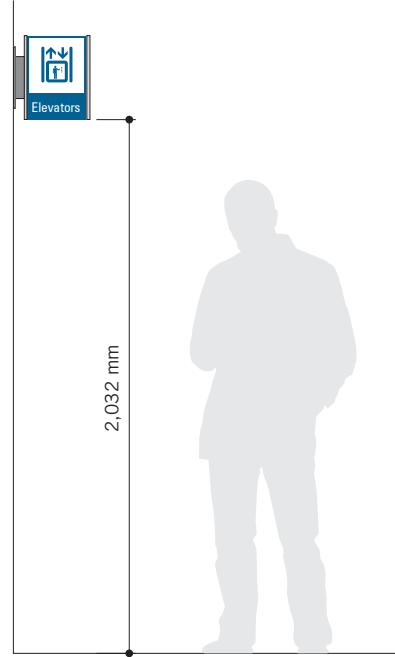
H2.1: PROJECTING AMENITY ID  
SCALE 1:2



TOP VIEW  
SCALE 1:2



SIDE VIEW  
SCALE 1:2



TYPICAL ELEVATION  
SCALE 1:25

(2) 6mm thick 'Sintra' panels, attached back to back to the 6mm thick Aluminum wall bracket, as shown.

Paint sign face (230mm wide continued over top & bottom) in Matthews Paint Semi-Gloss Finish MP-11183 Franco Blue.

Vertical edges (10mm wide continued over top, bottom and vertical edges) painted in GripGuard Plus 085642 Brushed Aluminum Semi-Gloss Finish.

3M 7725-20 Opaque Matte White Vinyl with knocked-out graphics applied to both sign faces.

3M 7725-20 Opaque Matte White Vinyl Letters applied to both sign faces.

(4) 1/4" C/S Toggle bolts into existing drywall (TBC). Heads painted to match.

6mm (1/4") thick Aluminum Wall Plate Painted in GripGuard Plus 085642 Brushed Aluminum.

(2) 6mm thick Sintra panels, attached back to back to 6mm thick Aluminum bracket.



VARIATIONS  
SCALE 1:4



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ISSUES		
No.	DESCRIPTION	DATE
A	90% SUBMISSION	2021-12-17
B	ISSUED FOR TENDER	2022-02-16
C	ADDENDUM #3	2022-03-25

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[ibigroup.com](http://ibigroup.com)

**PROJECT TITLE**  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

**PROJECT ADDRESS**  
GROUP 29 BUILDINGS

**PROJECT NO:**  
9119 – 19 – 0162 / IBI 122260

**DRAWN BY:**  
**M.LOW**

**CHECKED BY:**  
**C.D. SCHNOBB**

**PROJECT MGR:**  
**R. DALY**

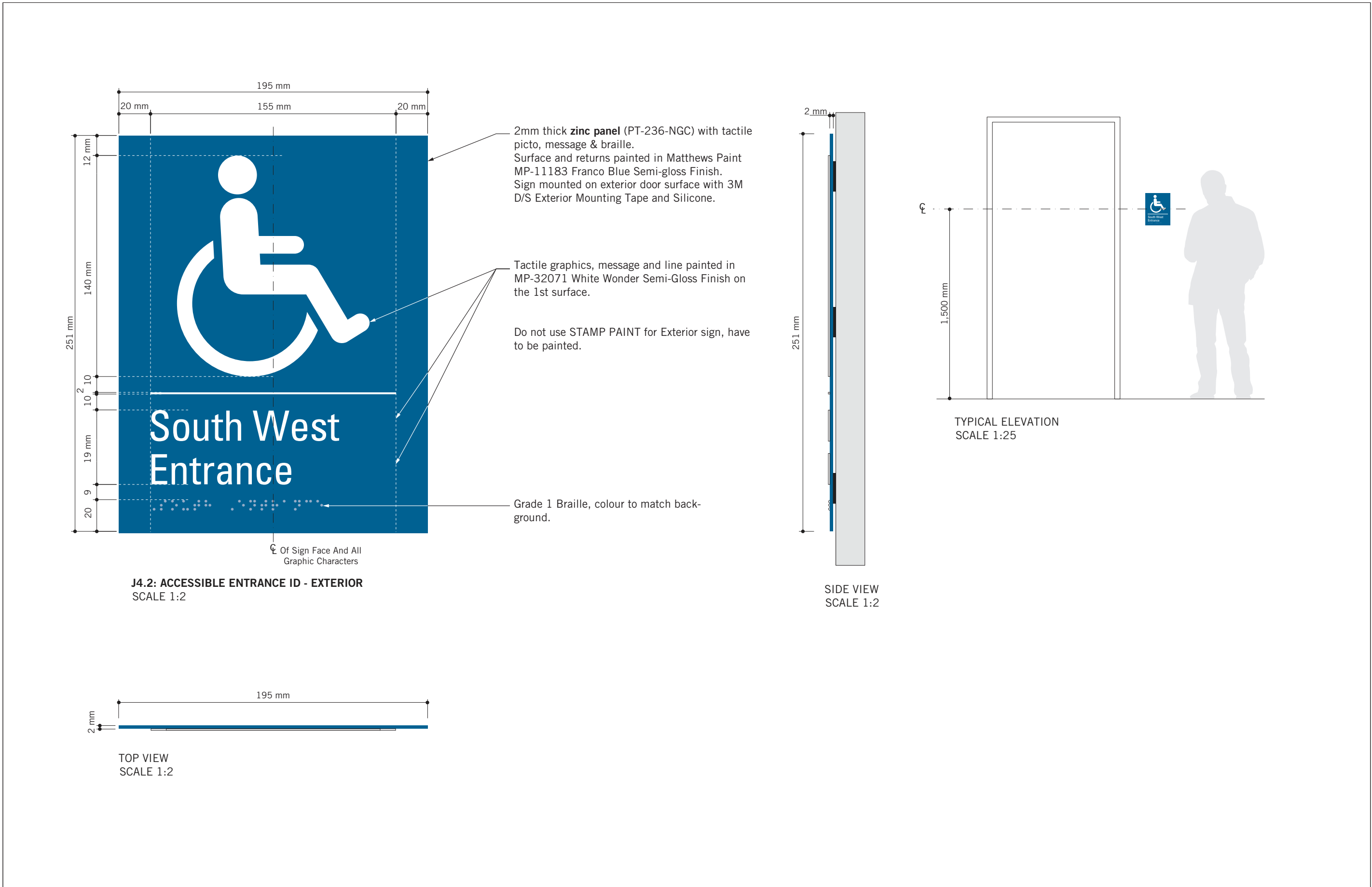
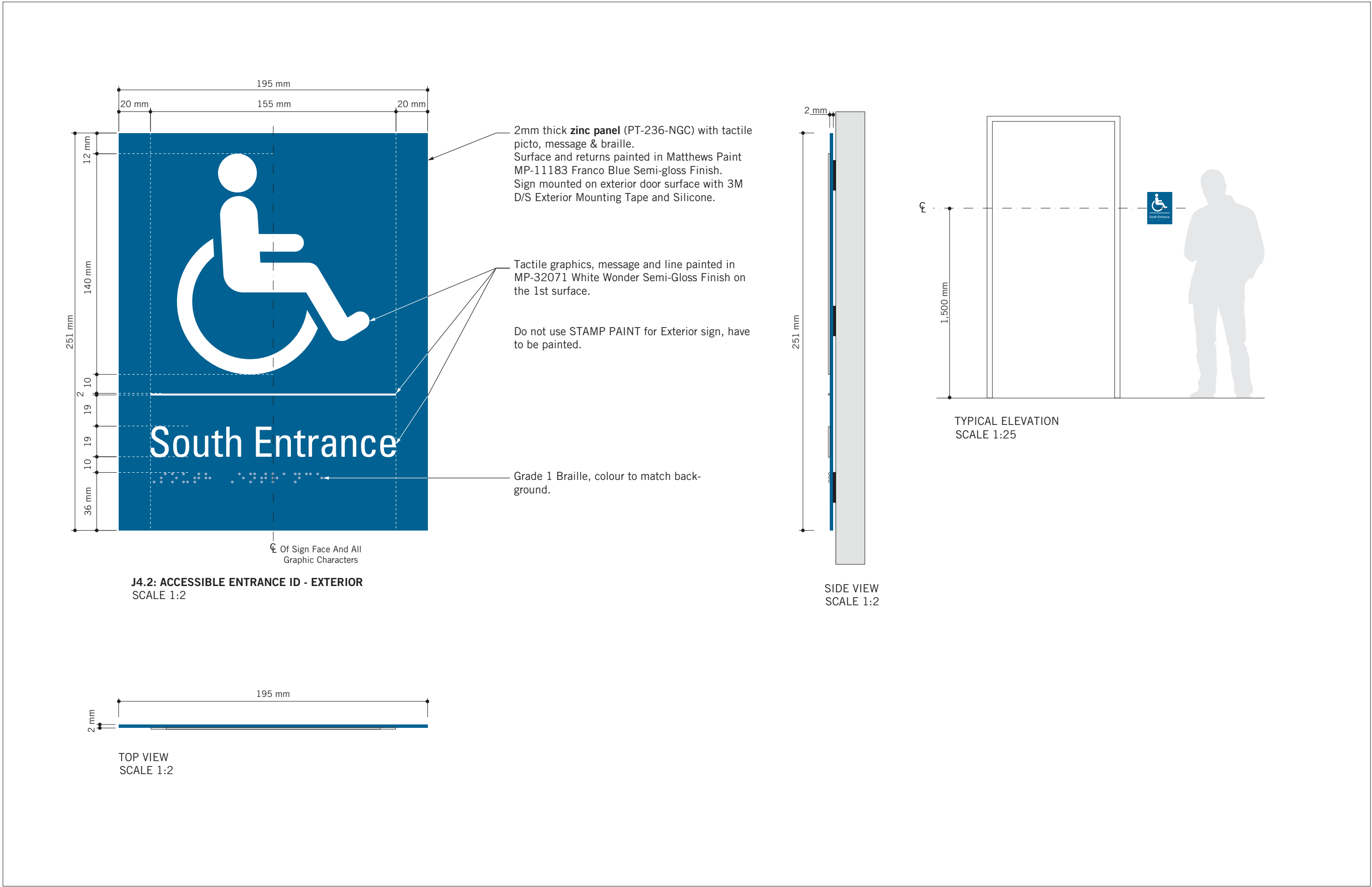
**APPROVED BY:**

**SHEET TITLE**  
SIGNAGE & WAYFINDING  
DETAILS  
H2.1:PROJECTING AMENITY  
ID

**SHEET NUMBER**  
**D1906**

**ISSUE**  
**C**





VARIATIONS  
SCALE 1:3



VARIATIONS  
SCALE 1:3

ISSUES		
No.	DESCRIPTION	DATE
A	90% SUBMISSION	2021-12-17
B	ISSUED FOR TENDER	2022-02-16
C	ADDENDUM #3	2022-03-25

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**GROUP 29 BUILDINGS**

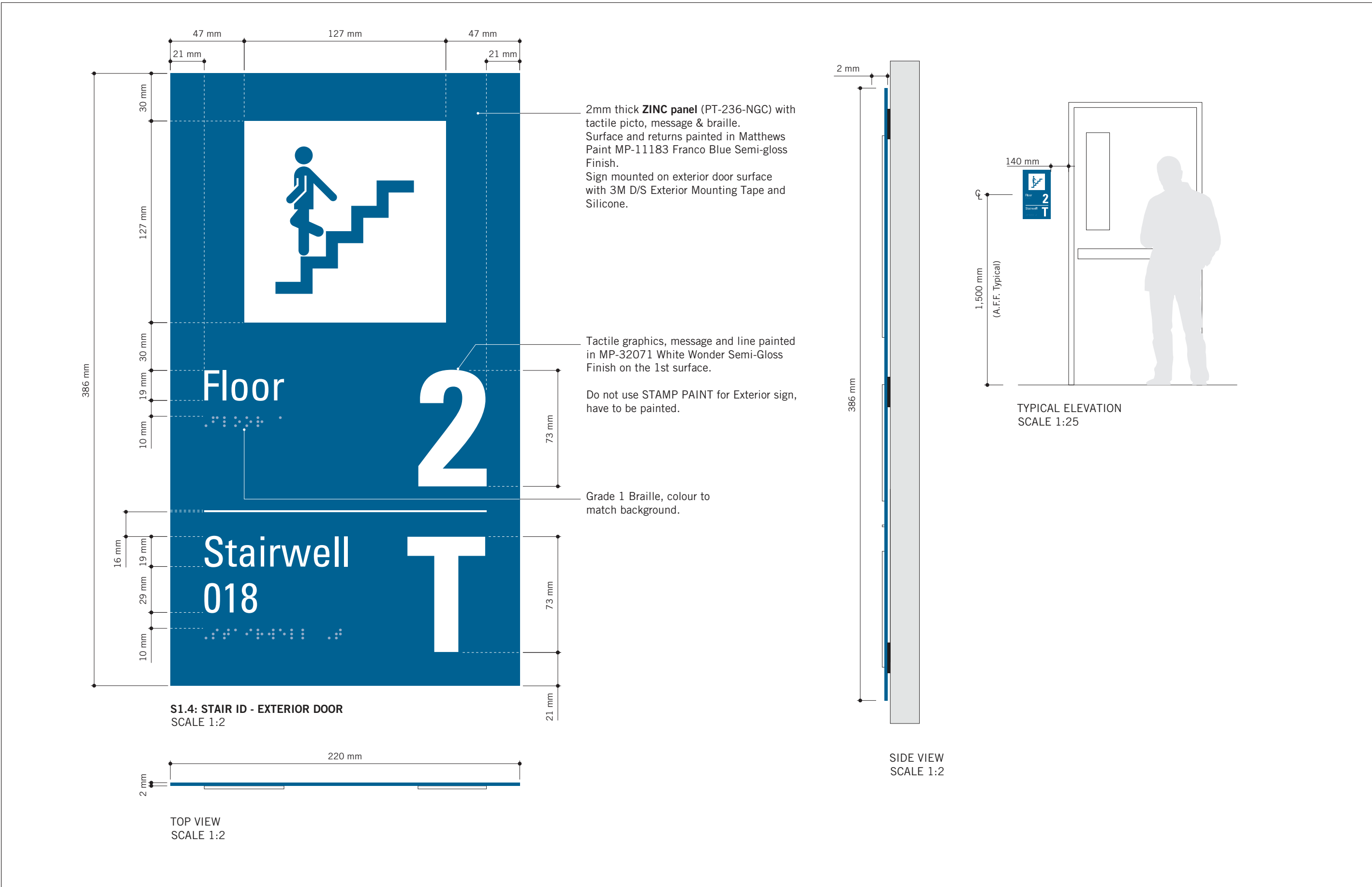
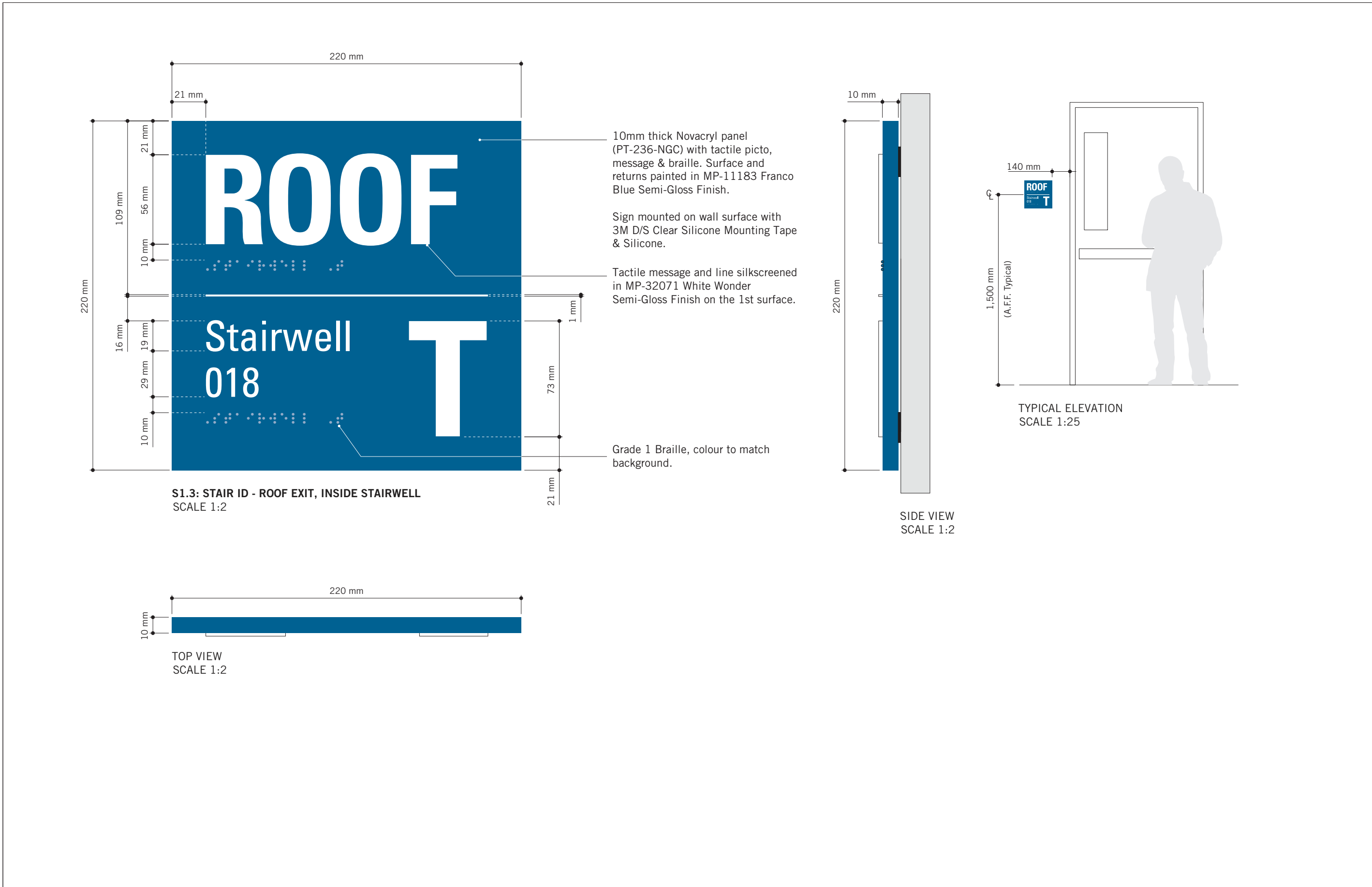
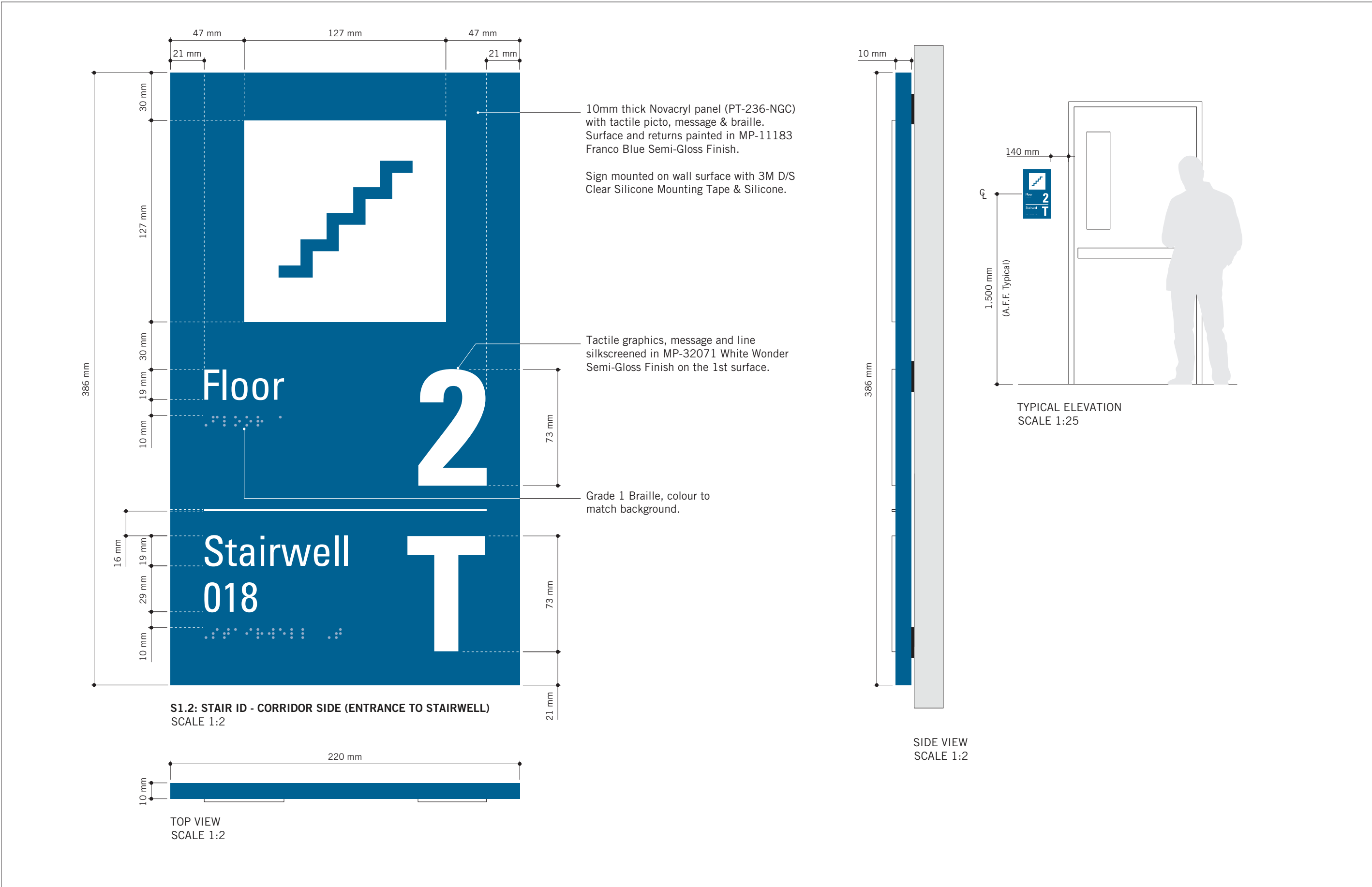
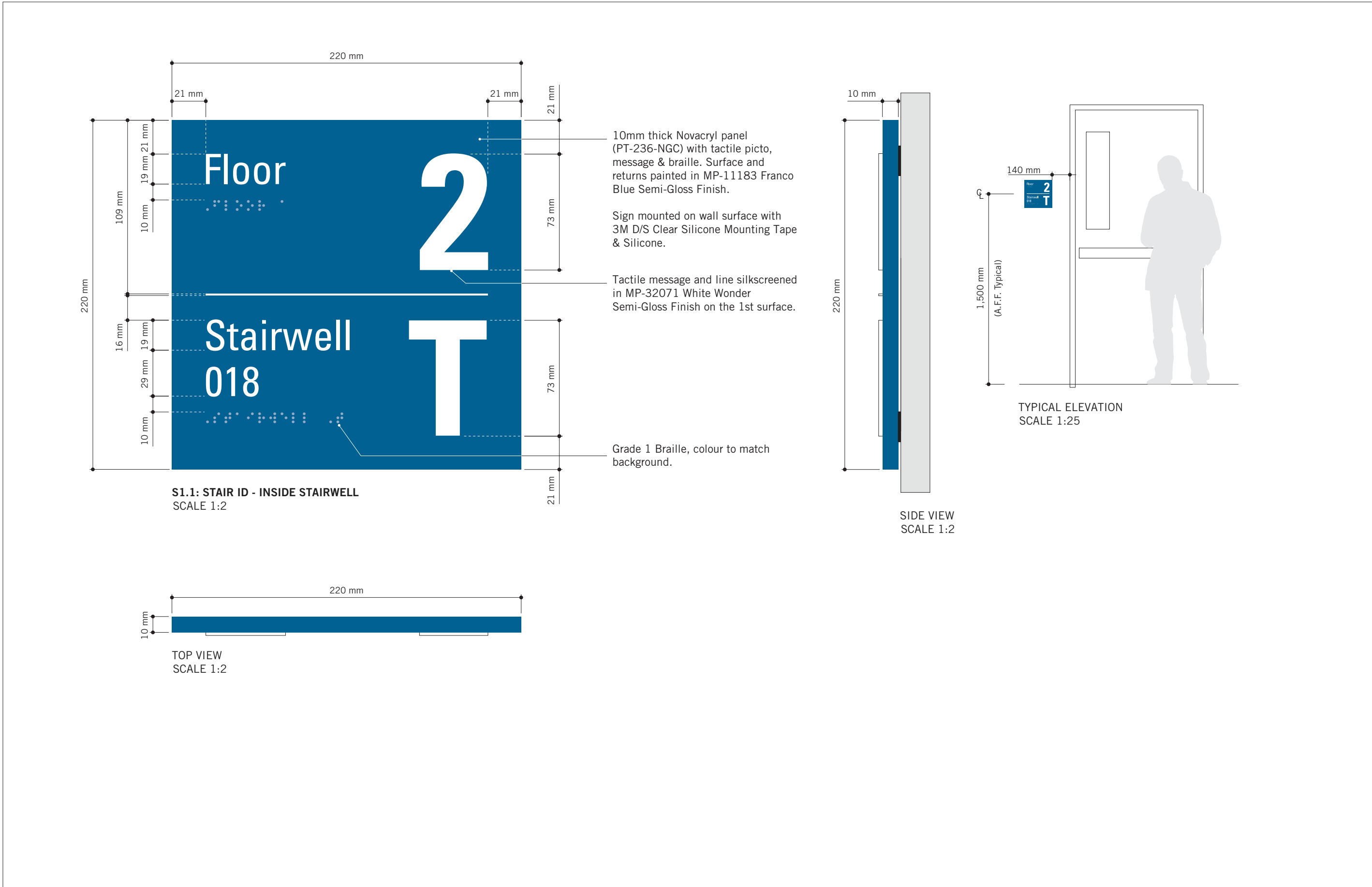
PROJECT NO:  
9119 – 19 – 0162 / IBI 122260

DRAWN BY: <b>M.LOW</b>	CHECKED BY: <b>C.D. SCHNOBB</b>
PROJECT MGR: <b>R. DALY</b>	APPROVED BY:

SHEET TITLE  
**SIGNAGE & WAYFINDING  
DETAILS  
J4: ACCESSIBLE ENTRANCE**

SHEET NUMBER  
**D1907**

ISSUE  
**C**



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ISSUES		
No.	DESCRIPTION	DATE
A	90% SUBMISSION	2021-12-17
B	ISSUED FOR TENDER	2022-02-16
C	ADDENDUM #3	2022-03-25

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ibi@ibi-group.com

**PROJECT TITLE**  
**CITY OF TORONTO**  
**ACCESSIBILITY UPGRADES**

**PROJECT ADDRESS**  
**GROUP 29 BUILDINGS**

**PROJECT NO:**  
9119 – 19 – 0162 / IBI 122260

**DRAWN BY:**  
**M. LOW**

**CHECKED BY:**  
**C.D. SCHNOBB**

**PROJECT MGR:**  
**R. DALY**

**APPROVED BY:**

**SHEET TITLE**  
**SIGNAGE & WAYFINDING**  
**DETAILS**  
**S1: STAIR ID**

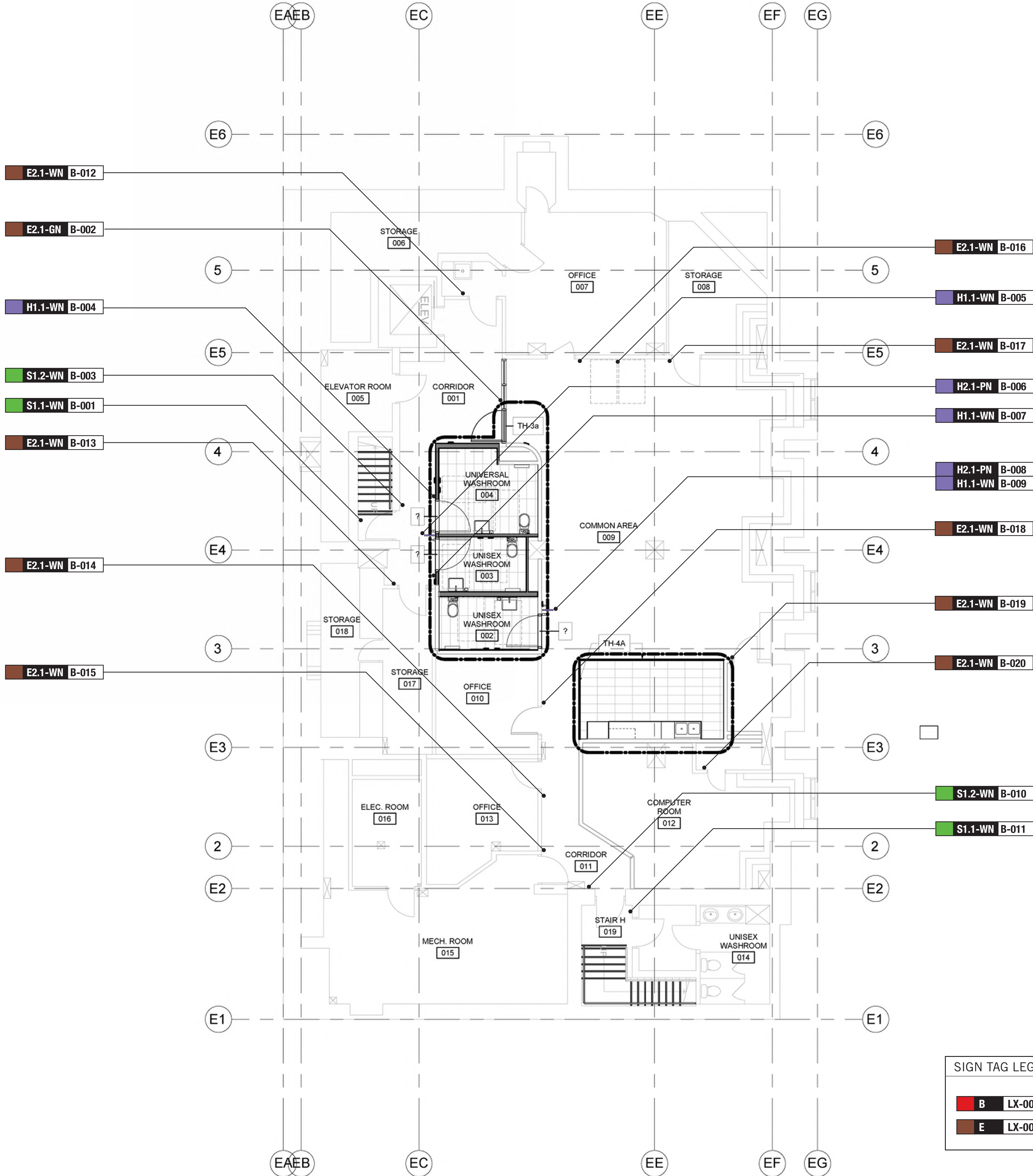
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**D1908**

**ISSUE**  
**C**

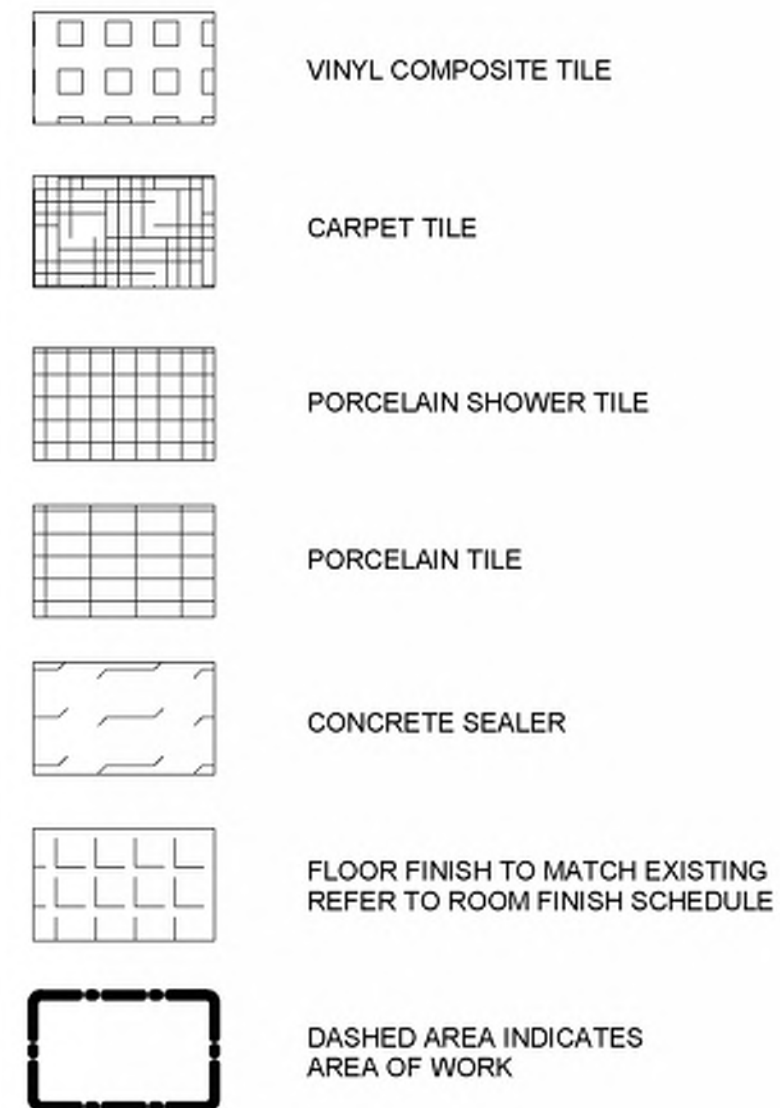


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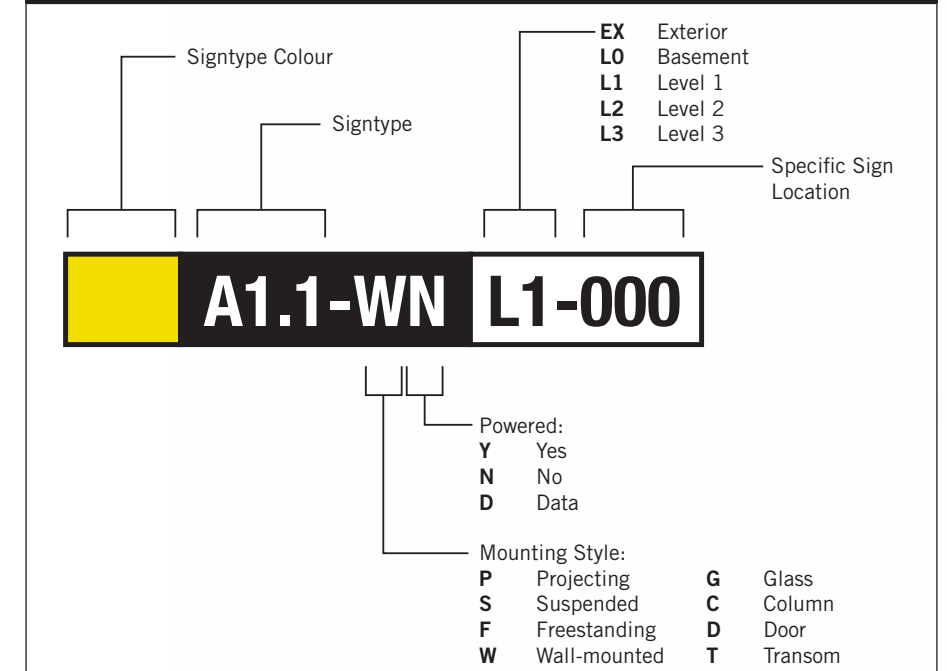
#### FLOOR FINISHES LEGEND



#### FLOOR FINISH GENERAL NOTES

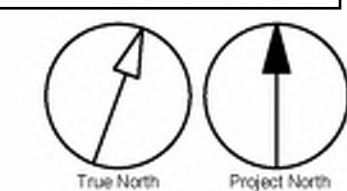
- 1 CONTRACTOR TO REFER TO SPECIFICATION BOOK FOR ALL FLOOR FINISHES AND BASE SPECIFICATIONS.
- 2 CARPET TILE TO BE INSTALLED PRIOR TO INSTALLATION OF SYSTEMS FURNITURE.
- 3 CONTRACTOR TO HAVE STONE TILE SETTER CONTACT DESIGNER REGARDING LAYOUT SEAMING AND CUT-LINES OF STONE TILE PRIOR TO INSTALLATION.
- 4 CONTRACTOR TO PROTECT ALL NEW FLOOR FINISHES UPON COMPLETION OF INSTALLATION, WITH PLYWOOD SHEETS WHERE CONSTRUCTION WORK IS INCOMPLETE.
- 5 CHANGE OF FLOORING MATERIAL TO OCCUR BELOW THE DOOR LEAF UNLESS OTHERWISE INDICATED.
- 6 PERIMETER COLUMNS AND WALLS TO RECEIVE BASE AS PER SPECIFICATIONS FOR THAT AREA.
- 7 WHERE A CHANGE OF MATERIAL THICKNESS OCCURS, PROVIDE THRESHOLD AS PER DETAILS AND SPECIFICATIONS.
- 8 WHERE STONE FLOORING MEETS ELEVATOR DOORS, BEVEL STONE DOWN TO SUIT TRANSITION BETWEEN NEW STONE FLOOR AND EXISTING ELEVATOR CAB FLOOR. PROVIDE SHOP DRAWINGS OF BEVEL/REDUCING STRIP FOR APPROVAL BY CONSULTANT.
- 9 MAKE GOOD FLOOR FINISHES DAMAGED BY ANY WORK OF THIS PROJECT. ALL FINISHES TO MATCH EXISTING.

#### SIGN TAG LEGEND



#### SIGN TAG LEGEND

- |                                    |                                 |  |
|------------------------------------|---------------------------------|--|
| <b>B</b> <b>LX-000</b> Directional | <b>H</b> <b>LX-000</b> Amenity  | <b>G</b> <b>LX-000</b> Inside Stair ID |
| <b>E</b> <b>LX-000</b> Room ID     | <b>J</b> <b>LX-000</b> Entrance | <b>S</b> <b>LX-000</b> Stair ID        |



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CITY OF TORONTO



55 John ST.  
TORONTO, ON  
M5V 3C6

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#### ISSUES

No.	DESCRIPTION	DATE
A	90% SUBMISSION	2021-12-17
B	ISSUED FOR TENDER	2022-02-16
C	ADDENDUM #3	2022-03-25

#### CONSULTANTS

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#### SEAL

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS  
**RALPH THORNTON  
COMMUNITY CENTRE & LIBRARY  
765 QUEEN STREET**

PROJECT NO:  
9119 - 19 - 0162 / IBI 122260

DRAWN BY:  
**M. LOW**

CHECKED BY:  
**C.D. SCHNOBB**

PROJECT MGR:  
**R. DALY**

APPROVED BY:

#### SHEET TITLE

**SIGNAGE & WAYFINDING  
DETAILS  
BASEMENT LOCATION PLAN**

#### SHEET NUMBER

**G29-300-A8000**

#### ISSUE

**C**

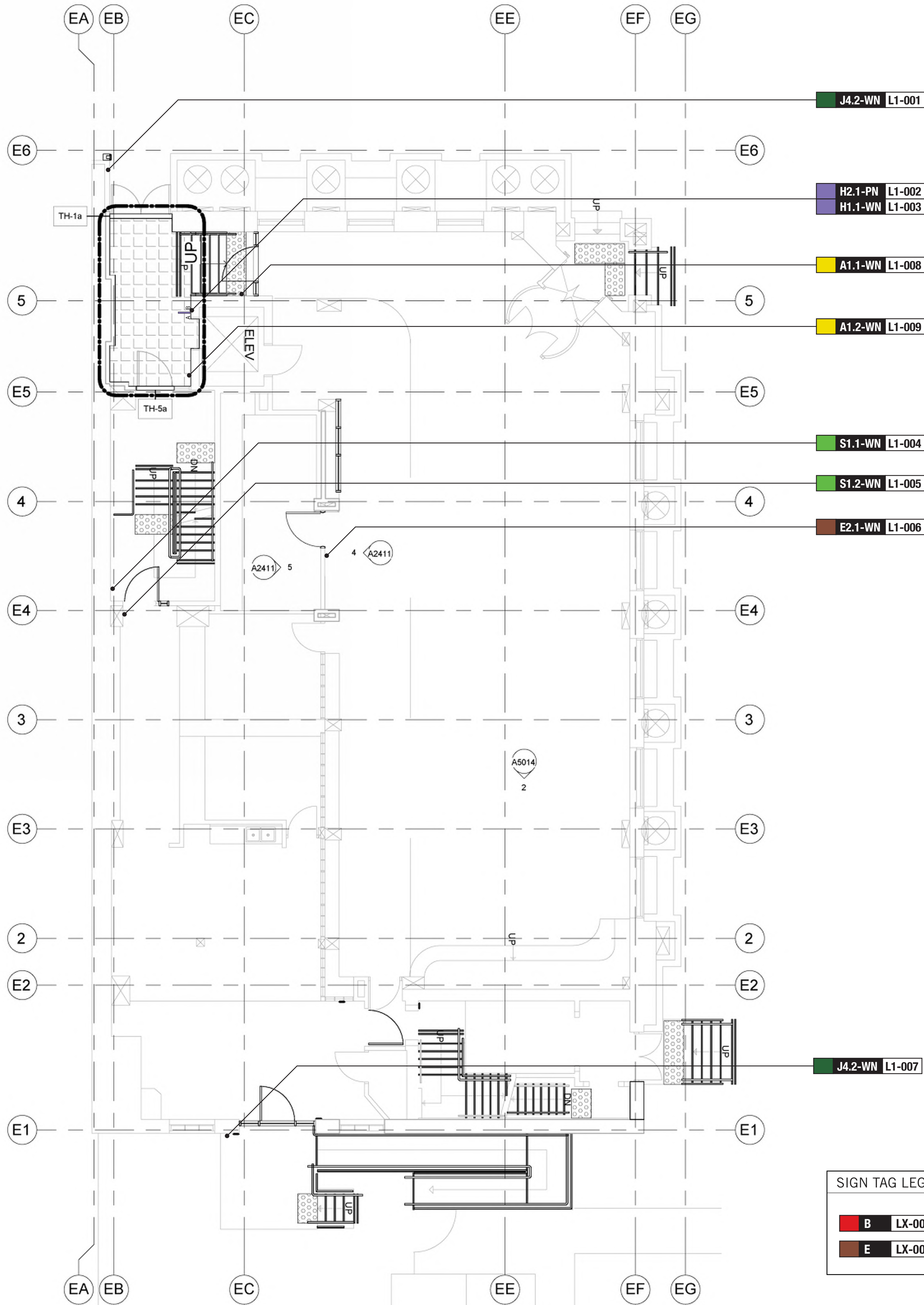
C:\Users\ana.bonnyan\Desktop\TAU-G31-100 QUEEN ST WEST - CITY HALL.mxd

SCALE CHECK  
1/1



Scale 1:75

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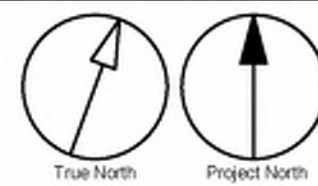


FLOOR FINISHES LEGEND	
	VINYL COMPOSITE TILE
	CARPET TILE
	PORCELAIN SHOWER TILE
	PORCELAIN TILE
	CONCRETE SEALER
	FLOOR FINISH TO MATCH EXISTING REFER TO ROOM FINISH SCHEDULE
	DASHED AREA INDICATES AREA OF WORK

FLOOR FINISH GENERAL NOTES	
1	CONTRACTOR TO REFER TO SPECIFICATION BOOK FOR ALL FLOOR FINISHES AND BASE SPECIFICATIONS.
2	CARPET TILE TO BE INSTALLED PRIOR TO INSTALLATION OF SYSTEMS FURNITURE.
3	CONTRACTOR TO HAVE STONE TILE SETTER CONTACT DESIGNER REGARDING LAYOUT SEAMING AND CUT-LINES OF STONE TILE PRIOR TO INSTALLATION.
4	CONTRACTOR TO PROTECT ALL NEW FLOOR FINISHES UPON COMPLETION OF INSTALLATION, WITH PLYWOOD SHEETS WHERE CONSTRUCTION WORK IS INCOMPLETE.
5	CHANGE OF FLOORING MATERIAL TO OCCUR BELOW THE DOOR LEAF UNLESS OTHERWISE INDICATED.
6	PERIMETER COLUMNS AND WALLS TO RECEIVE BASE AS PER SPECIFICATIONS FOR THAT AREA.
7	WHERE A CHANGE OF MATERIAL THICKNESS OCCURS, PROVIDE THRESHOLD AS PER DETAILS AND SPECIFICATIONS.
8	WHERE STONE FLOORING MEETS ELEVATOR DOORS, BEVEL STONE DOWN TO SUIT TRANSITION BETWEEN NEW STONE FLOOR AND EXISTING ELEVATOR CAB FLOOR. PROVIDE SHOP DRAWINGS OF BEVEL/REDUCING STRIP FOR APPROVAL BY CONSULTANT.
9	MAKE GOOD FLOOR FINISHES DAMAGED BY ANY WORK OF THIS PROJECT. ALL FINISHES TO MATCH EXISTING.

SIGN TAG LEGEND	
Signtype Colour	Signtype
EX Exterior	LO Basement
L1 Level 1	L2 Level 2
L3 Level 3	Specific Sign Location
<b>A1.1-WN L1-000</b>	
Powered:	
Y Yes	
N No	
D Data	
Mounting Style:	
P Projecting	G Glass
S Suspended	C Column
F Freestanding	D Door
W Wall-mounted	T Transom

SIGN TAG LEGEND	
<b>B LX-000</b> Directional	<b>H LX-000</b> Amenity
<b>E LX-000</b> Room ID	<b>J LX-000</b> Entrance
<b>G LX-000</b> Inside Stair ID	<b>S LX-000</b> Stair ID



CLIENT

CITY OF TORONTO

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TORONTO, ON  
M5V 3C6

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ISSUES

No.	DESCRIPTION	DATE
A	90% SUBMISSION	2021-12-17
B	ISSUED FOR TENDER	2022-02-16
C	ADDENDUM #3	2022-03-25

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ibi@ibi-group.com

PROJECT TITLE

CITY OF TORONTO

ACCESSIBILITY UPGRADES

PROJECT ADDRESS

RALPH THORNTON

COMMUNITY CENTRE & LIBRARY

765 QUEEN STREET

PROJECT NO:

9119 - 19 - 0162 / IBI 122260

DRAWN BY:

M.LOW

CHECKED BY:

C.D. SCHNOBB

PROJECT MGR:

R. DALY

APPROVED BY:

SHEET TITLE

SIGNAGE & WAYFINDING

DETAILS

LEVEL 1 LOCATION PLAN

SHEET NUMBER

G29-300-A8010

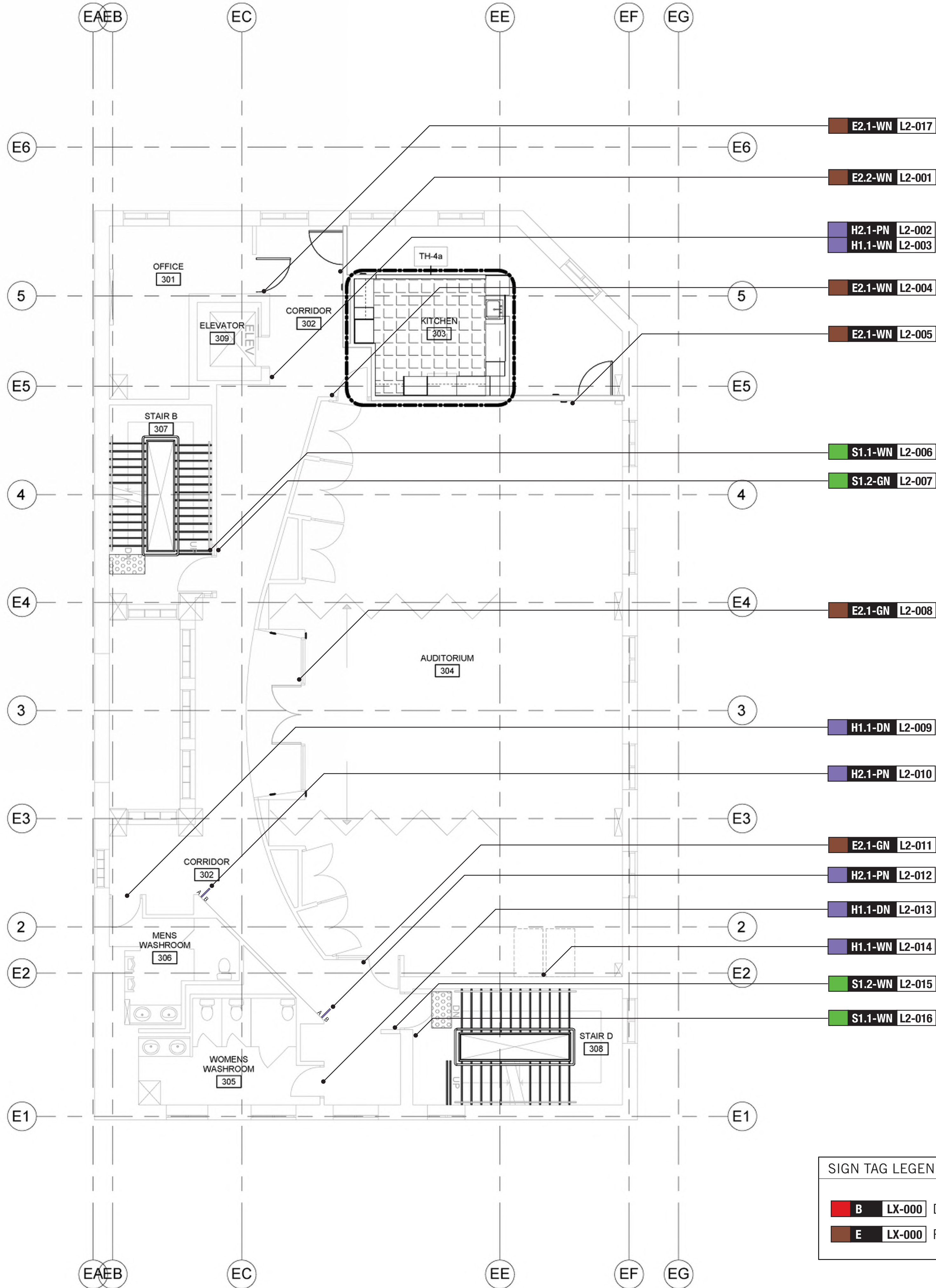
ISSUE

C

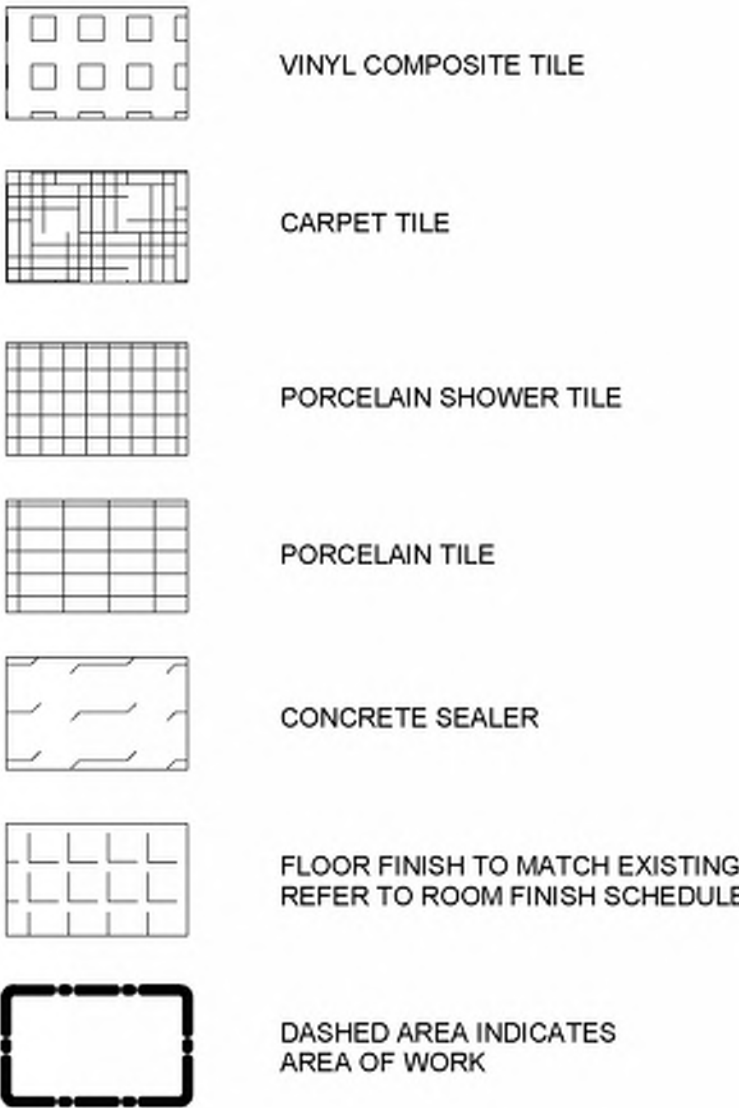


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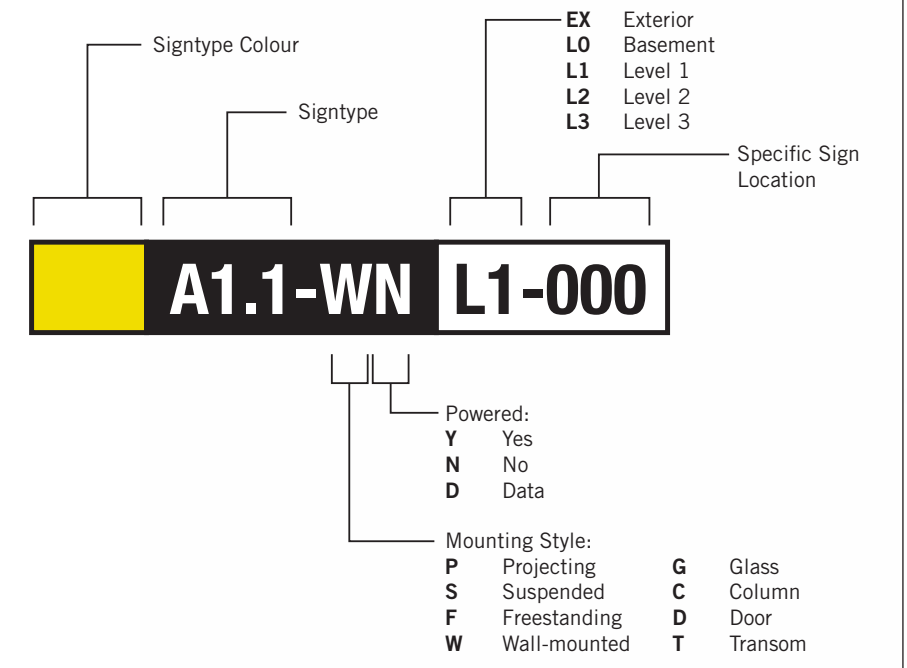
#### FLOOR FINISHES LEGEND



#### FLOOR FINISH GENERAL NOTES

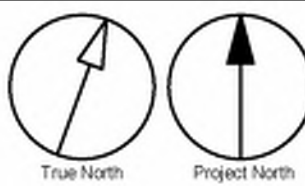
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- 9 MAKE GOOD FLOOR FINISHES DAMAGED BY ANY WORK OF THIS PROJECT. ALL FINISHES TO MATCH EXISTING.

#### SIGN TAG LEGEND



#### SIGN TAG LEGEND

- |                             |                          |                                 |
|-----------------------------|--------------------------|---------------------------------|
| <b>B</b> LX-000 Directional | <b>H</b> LX-000 Amenity  | <b>G</b> LX-000 Inside Stair ID |
| <b>E</b> LX-000 Room ID     | <b>J</b> LX-000 Entrance | <b>S</b> LX-000 Stair ID        |



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ibi@ibi.com

PROJECT TITLE

CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

RALPH THORNTON  
COMMUNITY CENTRE & LIBRARY  
765 QUEEN STREET

PROJECT NO:

9119 - 19 - 0162 / IBI 122260

DRAWN BY:

M.LOW

CHECKED BY:

C.D. SCHNOBB

PROJECT MGR:

R. DALY

APPROVED BY:

SHEET TITLE

SIGNAGE & WAYFINDING  
DETAILS  
LEVEL 2 LOCATION PLAN

SHEET NUMBER

G29-300-A8020

ISSUE

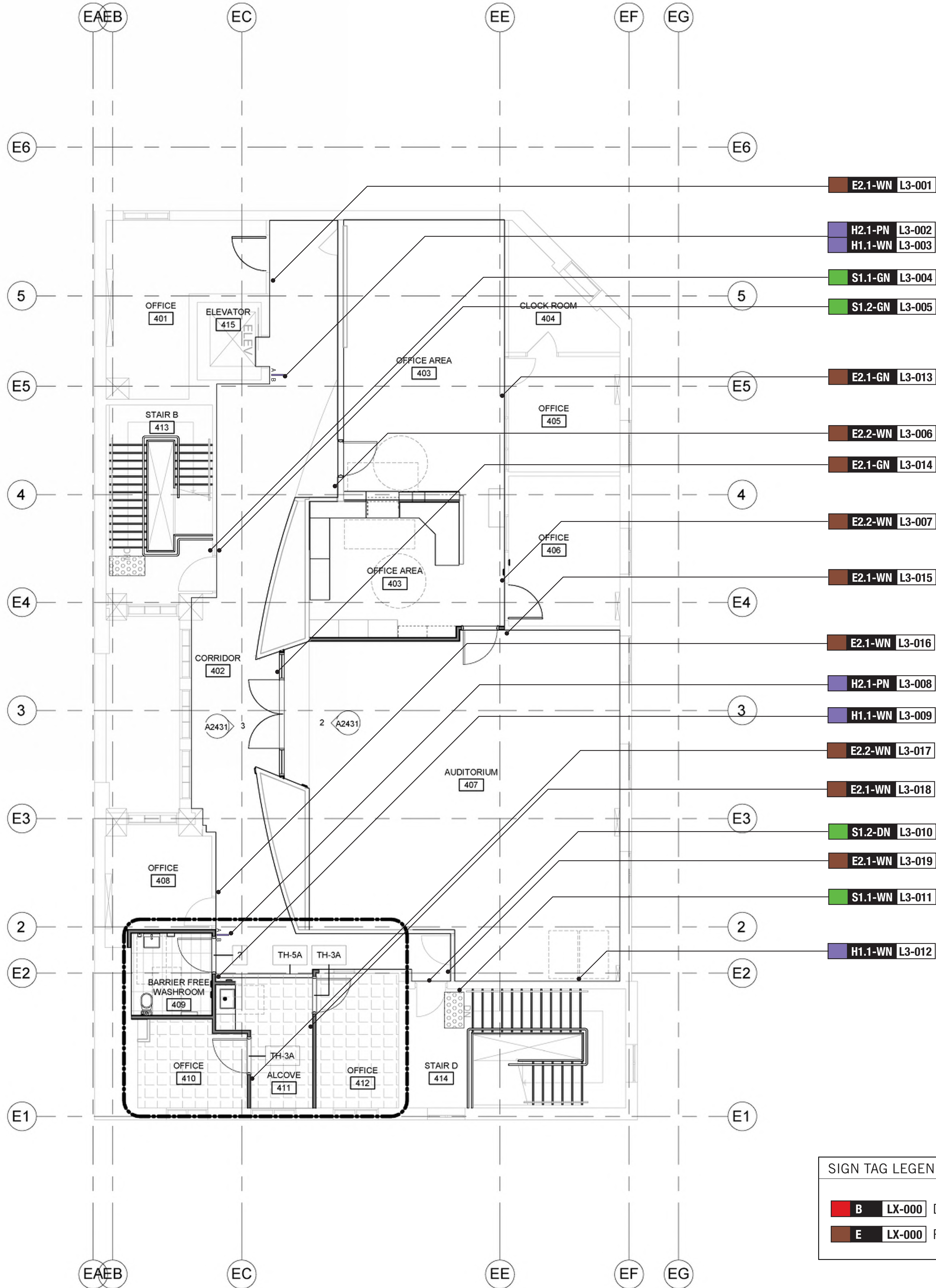
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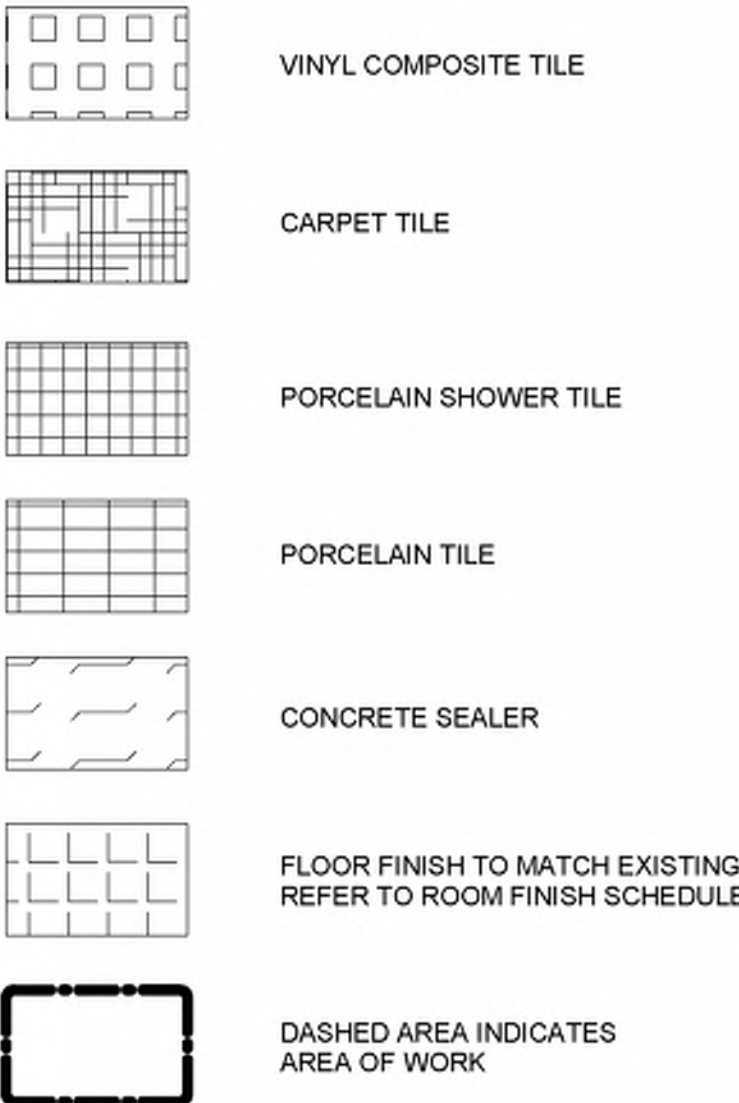
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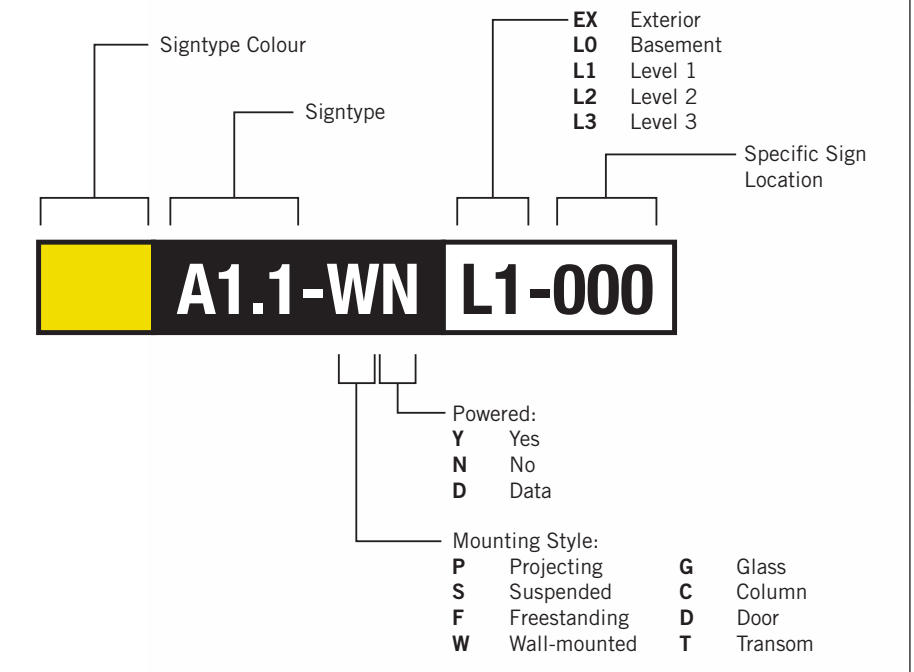
#### FLOOR FINISHES LEGEND



#### FLOOR FINISH GENERAL NOTES

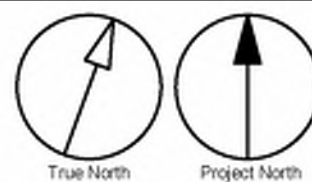
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#### SIGN TAG LEGEND




#### SIGN TAG LEGEND

- |                                    |                                 |  |
|------------------------------------|---------------------------------|--|
| <b>B</b> <b>LX-000</b> Directional | <b>H</b> <b>LX-000</b> Amenity  | <b>G</b> <b>LX-000</b> Inside Stair ID |
| <b>E</b> <b>LX-000</b> Room ID     | <b>J</b> <b>LX-000</b> Entrance | <b>S</b> <b>LX-000</b> Stair ID        |



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C	ADDENDUM #3	2022-03-25

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PROJECT TITLE

CITY OF TORONTO

ACCESSIBILITY UPGRADES

PROJECT ADDRESS

RALPH THORNTON

COMMUNITY CENTRE & LIBRARY

765 QUEEN STREET

PROJECT NO:

9119 - 19 - 0162 / IBI 122260

DRAWN BY:

M.LOW

CHECKED BY:

C.D. SCHNOBB

PROJECT MGR:

R. DALY

APPROVED BY:

SHEET TITLE

SIGNAGE & WAYFINDING

DETAILS

LEVEL 3 LOCATION PLAN

SHEET NUMBER

G29-300-A8030

ISSUE

C

C:\Users\ana.bonnyan\Desktop\TAU-031 - 100 QUEEN ST WEST - CITY HALL.rvt 1/1



KEYPLAN

B

SIGN CODE	LEVEL	LOC #	SIGN TYPE DESCRIPTION	SIDE A		SIDE B	
				MESSAGE (English)		MESSAGE (English)	
S1.1	B	001	Stair ID - Inside Stairwell	Floor B Braille Stairwell TBD TBD Braille			
E2.1	B	002	Room ID	Foundation Room Braille			
S1.2	B	003	Stair ID - Corridor Side	[Stairs picto] Floor B Braille Stairwell TBD TBD Braille			
H1.1	B	004	Amenity ID	[accessible universal washroom picto] Washroom Braille			
H1.1	B	005	Amenity ID	[protect in place picto] Protect In Place Braille			
H2.1	B	006	Projecting Amenity ID	[accessible universal washroom picto]		[accessible universal washroom picto]	
H1.1	B	007	Amenity ID	[accessible universal washroom picto] Washroom Braille			
H2.1	B	008	Projecting Amenity ID	[accessible universal washroom picto]		[accessible universal washroom picto]	
H1.1	B	009	Amenity ID	[accessible universal washroom picto] Washroom Braille			
S1.2	B	010	Stair ID - Corridor Side	[Stairs picto] Floor B Braille Stairwell H 019 Braille			
S1.1	B	011	Stair ID - Inside Stairwell	Floor B Braille Stairwell H 019 Braille			
E2.1	B	012	Room ID	Maintenance Office Braille			
E2.1	B	013	Room ID	Garbage Room Braille			
E2.1	B	014	Room ID	Program Office Braille			
E2.1	B	015	Room ID	Mechanical Room Braille			
E2.1	B	016	Room ID	Maintenance Office Braille			
E2.1	B	017	Room ID	Storage 1 Braille			
E2.1	B	018	Room ID	Program Office Braille			

SIGN TYPE	SIGN TYPE DESCRIPTION	COUNT
A1.1	Division ID	1
A1.2	Division ID	1
B1.1	Directional	1
E2.1	Room ID	20
E2.2	Line Room ID	7
E4	Insert Holder	0
H1.1	Amenity ID	12
H2.1	Projecting Amenity ID	8
J4.2	Accessible Entrance ID - Exterior	2
S1.1	Stair ID - Inside Stairwell	7
S1.2	Stair ID - Corridor Side	7
S1.3	Stair ID - Roof Exit, Inside Stairwell	0
S1.4	Stair ID - Exterior Door	0
Total		64

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PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS  
RALPH THORNTON  
COMMUNITY CENTRE & LIBRARY  
765 QUEEN STREET

PROJECT NO:  
9119 – 19 – 0162 / IBI 122260

DRAWN BY:  
**M.LOW**

CHECKED BY:  
**C.D. SCHNOBB**

PROJECT MGR:  
**R. DALY**

APPROVED BY:

SHEET TITLE  
SIGNAGE & WAYFINDING  
DETAILS  
MESSAGE SCHEDULE

SHEET NUMBER  
**G29-300-A8100**

ISSUE  
**C**

KEYPLAN


L1

L2

SIGN CODE	LEVEL	LOC #	SIGN TYPE DESCRIPTION	SIDE A		SIDE B	
				MESSAGE (English)		MESSAGE (English)	
E2.1	B	019	Room ID	Storage 2 Braille			
E2.1	B	020	Room ID	Computer Lab Braille			
J4.2	L1	001	Accessible Entrance ID - Exterior	[accessible picto] North Entrance Braille			
H2.1	L1	002	Projecting Amenity ID	[elevator picto]		[elevator picto]	
H1.1	L1	003	Amenity ID	[elevator picto] Elevator			
S1.1	L1	004	Stair ID - Inside Stairwell	Floor 1 Braille Stairwell TBD TBD Braille			
S1.2	L1	005	Stair ID - Corridor Side	[stairs picto] Floor 1 Braille Stairwell TBD TBD Braille			
E2.1	L1	006	Room ID	Office Braille			
J4.2	L1	007	Accessible Entrance ID - Exterior	[accessible picto] South Entrance Braille			
A1.1	L1	008	Division ID	Toronto Public Library Braille			
A1.2	L1	009	Division ID	South Riverdale Child-Parent Centre Braille			
E2.2	L2	001		Betsy Swift Community Kitchen Braille			
H2.1	L2	002	Projecting Amenity ID	[elevator picto]		[elevator picto]	
H1.1	L2	003	Amenity ID	[elevator picto] Elevator Braille			
E2.2	L2	004	Line Room ID	Riverdale Auditorium - North Braille			
E2.1	L2	005	Room ID	Betsy Swift Community Kitchen Braille			
S1.1	L2	006	Stair ID - Inside Stairwell	Floor 2 Braille Stairwell B 307 Braille			
S1.2	L2	007	Stair ID - Corridor Side	[stairs picto] Floor 2 Braille Stairwell B 307 Braille			

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PROJECT ADDRESS

RALPH THORNTON  
COMMUNITY CENTRE & LIBRARY  
765 QUEEN STREET

PROJECT NO:

9119 – 19 – 0162 / IBI 122260

DRAWN BY:

M.LOW

CHECKED BY:

C.D. SCHNOBB

PROJECT MGR:

R. DALY

APPROVED BY:

SHEET TITLE

SIGNAGE & WAYFINDING  
DETAILS  
MESSAGE SCHEDULE

SHEET NUMBER

G29-300-A8101

ISSUE

C

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1 of 1

SCALE CHECK


KEYPLAN

L3

SIGN CODE	LEVEL	LOC #	SIGN TYPE DESCRIPTION	SIDE A	SIDE B
				MESSAGE (English)	MESSAGE (English)
E2.2	L2	008	Line Room ID	Riverdale Auditorium - Centre Braille	
H1.1	L2	009	Amenity ID	[accessible men picto] Mens Braille	
H2.1	L2	010	Projecting Amenity ID	[accessible men picto]	[accessible men picto]
E2.2	L2	011	Line Room ID	Riverdale Auditorium - South Braille	
H2.1	L2	012	Projecting Amenity ID	[accessible women picto]	[accessible women picto]
H1.1	L2	013	Amenity ID	[accessible women picto] Women Braille	
H1.1	L2	014	Amenity ID	[protect in place picto] Protect In Place Braille	
S1.2	L2	015	Stair ID - Corridor Side	[stairs picto] Floor 2 Braille Stairwell D 308 Braille	
S1.1	L2	016	Stair ID - Inside Stairwell	Floor 2 Braille Stairwell D 308 Braille	
E2.1	L2	017	Room ID	Meeting Room Braille	
E2.1	L3	001	Room ID	Executive Director Braille	
H2.1	L3	002	Projecting Amenity ID	[elevator picto]	[elevator picto]
H1.1	L3	003	Amenity ID	[elevator picto] Elevator Braille	
S1.1	L3	004	Stair ID - Inside Stairwell	Floor 3 Braille Stairwell B 413 Braille	
S1.2	L3	005	Stair ID - Corridor Side	[stairs picto] Floor 3 Braille Stairwell B 413 Braille	
E2.2	L3	006	Line Room ID	Reception Lewis Pearsall Exchange Loft Braille	
E2.2	L3	007	Line Room ID	Manager of Strategic Initiatives Braille	
H2.1	L3	008	Projecting Amenity ID	[accessible universal washroom picto]	[accessible universal washroom picto]

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CITY OF TORONTO



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TORONTO, ON  
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ACCESSIBILITY UPGRADES

PROJECT ADDRESS

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COMMUNITY CENTRE & LIBRARY  
765 QUEEN STREET

PROJECT NO:  
9119 – 19 – 0162 / IBI 122260

DRAWN BY:  
M.LOW

CHECKED BY:  
C.D. SCHNOBB

PROJECT MGR:  
R. DALY

APPROVED BY:

SHEET TITLE

SIGNAGE & WAYFINDING  
DETAILS  
MESSAGE SCHEDULE

SHEET NUMBER

G29-300-A8102

ISSUE

C

C:\Users\ana.boryanian\Desktop\TAU-G31-100 QUEEN ST WEST - CITY HALL.rvt

Scale Check 1 of 1



KEYPLAN

SIGN CODE	LEVEL	LOC #	SIGN TYPE DESCRIPTION	SIDE A	SIDE B
				MESSAGE (English)	MESSAGE (English)
H1.1	L3	009	Amenity ID	[accessible universal washroom picto] Washroom Braille	
S1.2	L3	010	Stair ID - Corridor Side	[stairs picto] Floor 3 Braille Stairwell D 414 Braille	
S1.1	L3	011	Stair ID - Inside Stairwell	Floor 3 Braille Stairwell D 414 Braille	
H1.1	L3	012	Amenity ID	[protect in place picto] Protect In Place Braille	
E2.1	L3	013	Room ID	Program Office Braille	
E2.1	L3	014	Room ID	Multi-Purpose Room Braille	
E2.1	L3	015	Room ID	Reception Braille	
E2.1	L3	016	Room ID	Business Manager Braille	
E2.2	L3	017	Line Room ID	Settlement Services Coordinator Braille	
E2.1	L3	018	Room ID	Volunteer Coordinator Braille	
E2.1	L3	019	Room ID	Multi-Purpose Room Braille	

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A	90% SUBMISSION	2021-12-17
B	ISSUED FOR TENDER	2022-02-16
C	ADDENDUM #3	2022-03-25

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PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS  
RALPH THORNTON  
COMMUNITY CENTRE & LIBRARY  
765 QUEEN STREET

PROJECT NO: 9119 – 19 – 0162 / IBI 122260	
DRAWN BY: M.LOW	CHECKED BY: C.D. SCHNOBB
PROJECT MGR: R. DALY	APPROVED BY:

SHEET TITLE  
SIGNAGE & WAYFINDING  
DETAILS  
MESSAGE SCHEDULE

SHEET NUMBER G29-300-A8103	ISSUE C
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