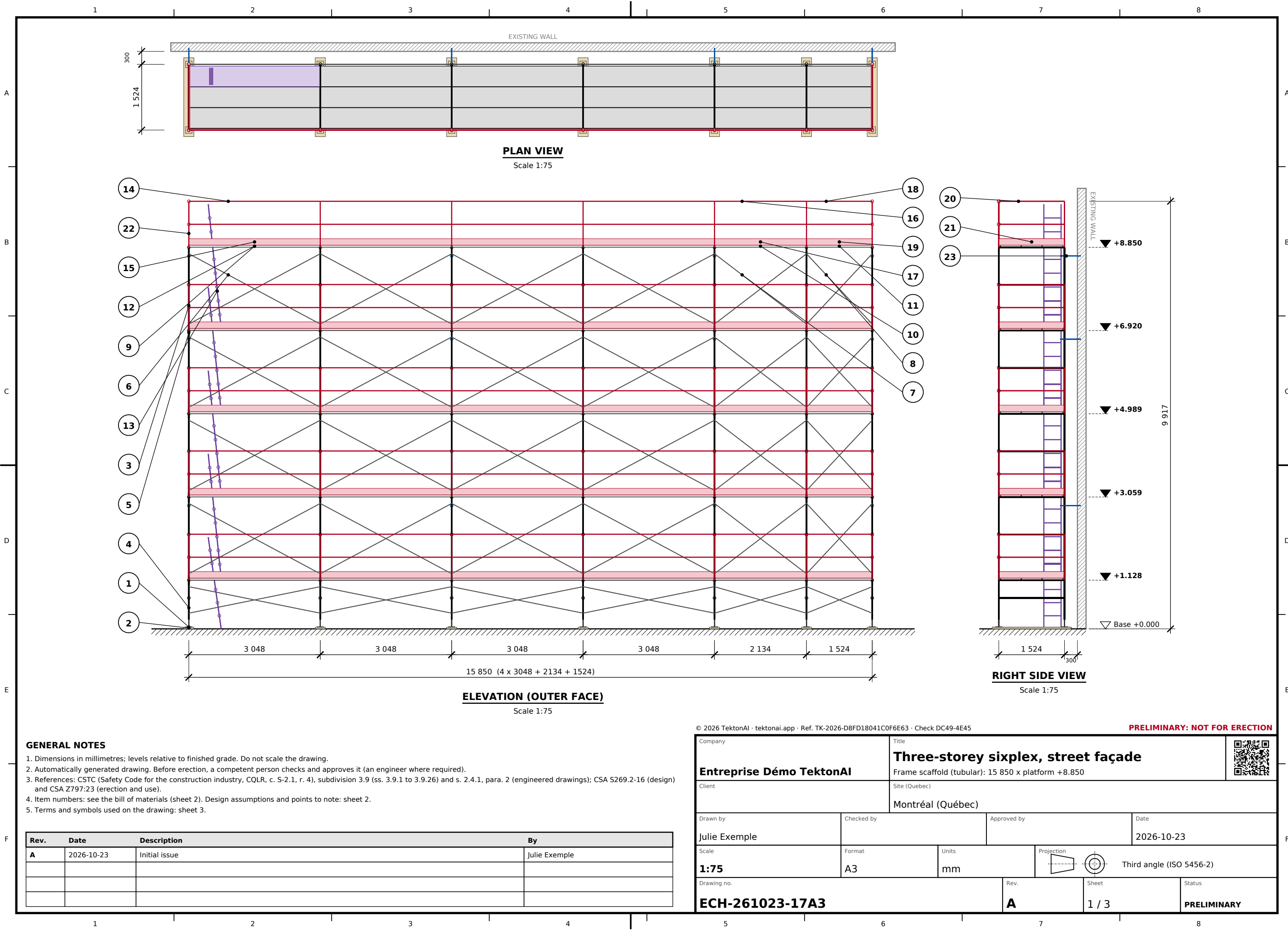




GENERAL NOTES

- Dimensions in millimetres; levels relative to finished grade. Do not scale the drawing.
- Automatically generated drawing. Before erection, a competent person checks and approves it (an engineer where required).
- References: CSTC (Safety Code for the construction industry, CQLR, c. S-2.1, r. 4), subdivision 3.9 (ss. 3.9.1 to 3.9.26) and s. 2.4.1, para. 2 (engineered drawings); CSA S269.2-16 (design) and CSA Z797:23 (erection and use).
- Item numbers: see the bill of materials (sheet 2). Design assumptions and points to note: sheet 2.
- Terms and symbols used on the drawing: sheet 3.

Rev.	Date	Description	By
A	2026-10-23	Initial issue	Julie Exemple

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PRELIMINARY: NOT FOR ERECTION

Company		Title			
Entreprise Démo TektonAI		Three-storey sixplex, street façade			
Client		Frame scaffold (tubular): 15 850 x platform +8.850			
		Site (Quebec)			
		Montréal (Québec)			
Drawn by		Checked by		Approved by	Date
Julie Exemple					2026-10-23
Scale		Format	Units	Projection	Third angle (ISO 5456-2)
1:75		A3	mm		
Drawing no.			Rev.	Sheet	Status
ECH-261023-17A3			A	1 / 3	PRELIMINARY



Not to scale

- Length: total scaffold footprint 16,085 mm, sole plates included, for a 16,200 mm façade; clear to the left limit: 0 mm; clear to the right limit: 115 mm. Limit on the right: party wall (read from the model). No combination of bays covers the right end without the sole plate crossing the limit.
- Indicative wind: 12.7 kN for the most loaded tie, for information only; the CSTC lateral design load (3.9.10) is 1.4 kN. This calculation applies the general NBC method, conservative for a scaffold. Do not use it to choose the ties without an engineer's approval.

- Ladder access in the first bay (CSTC, s. 3.9.11): hatch deck at every lift, landings at most 1.9 m apart (6 m required), ladder extending 1 m above each landing.
- 5' frames (1524 mm centres), 4 bays of 3048 mm (10') + 1 bay of 2134 mm (7') + 1 bay of 1524 mm (5'), the last one as a closing bay.
- 5 stacked frames per line; screw jacks extended 176 mm.
- Guardrail: top rail at 1067 mm, mid-rail at 533 mm, toeboard 150 mm.
- Decks: 3 19" decks per bay and per platform.
- Cross braces on both faces, in every bay and at every level.
- Wall ties (CSTC, s. 3.9.10): vertical spacing ≤ 3 times the width (4.6 m), at least one tie every 2 standards, plus the top level. Lateral design load of each tie, in tension and in compression: 225 N/m of platform carried, at least 1000 N, i.e. 1.4 kN at most (6.1 m of platform). The wall and the anchor must resist this load; place the ties outside demolition or repair zones; pull-out test on the substrate before installation.
- Façade ends, seen from outside: left, party wall (read from the model); right, party wall (read from the model). The first standard is 118 mm from the left end: the sole plate stays within the limit.
- Wind, IBC-216 calculation not checked by an engineer (general method of NBC 2020, not specific to scaffolds): q1/50 0.44 kPa (Montréal (City Hall), QC, NBC 2020, Table C-2), open terrain, Ce 1.00 at the top (9.9 m), Cg 2.0, Iw 1.0 and Ct 1.0 (NBC 2020, Article 4.1.7.4: no hill, per the user's answer), no tarp or net (tubes Cf 1.2 or 0.5 decks and toeboards Cf 2.0); force on the façade 68.2 kN, i.e. 0.43 kPa; most loaded tie 12.7 kN for 29.2 m² of façade. Specified loads, unfactored.
- Soil bearing capacity not checked: soil report not provided.
- Load takedown (light duty class, 1.2 kPa or 25 psf, on 1 platform at a time): most loaded standard 7.1 kN (dead load 4.3 + live load 2.7), total 60 kN on 14 supports; pressure under sole plate up to 25 kPa, soil capacity 75 kPa (assumed, no soil study): met.
- Unfactored live loads, distributed by tributary areas. Capacity of the standards and screw jacks: manufacturer's sheet. Soil capacity not provided: assumed 75 kPa, the bearing required without a soil analysis (CSA S269.2-16, clause 7.7.8.6 (a)); unfactored sole plate pressures are compared with that value. Duty classes: light 1.2 kN/m², intermediate 2.4 kN/m² and heavy 3.6 kN/m² (CSA S269.2-16, clause 6.2.3), light and heavy also given by the CNESTT guides (DC200-1693-2).
- Capacity of standards, screw jacks or casters and ties not checked: generic parts, no manufacturer data sheet.

Indicative weights. For the delivery slip, use the supplier's weights.

1

S Frame scaffold (tubular)

E

Light duty 1.2 kPa (25 psf), 1 platform loaded; unfactored loads; soil 75 kPa (assumed)

The 3 most loaded supports. The other 11 are in the data file (JSON).

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PRELIMINARY: NOT FOR ERECTION

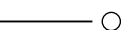
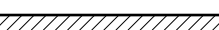
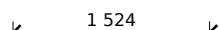
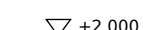
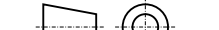
TERMS AND LEGEND

Terms and symbols used on this drawing.

TERMS

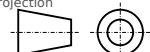
Term	Meaning
Rev.	Revision: letter of the drawing version; the revision table gives its date, purpose and author.
Drawing no.	Number that identifies the drawing, the same on every sheet; quote it with its revision.
Status	Stage of the drawing: PRELIMINARY, FOR APPROVAL, then APPROVED FOR ERECTION. Only the last one allows erection.
Scale	Scale of the view: at 1:50, 1 mm on paper is 50 mm on site. Read the dimensions, do not scale the drawing.
Third angle	Third-angle projection (ISO 5456-2): the plan view sits above the elevation, the right side view on its right.
Item	Item number of a part in the bill of materials, shown in a balloon on the views.
Qty	Quantity: number of parts on the line for the whole drawing.
Unit wt / Total wt	Weight of one part, then of all the parts on the line, in kg; indicative weights.
Ø	Diameter, in mm.
' and "	Feet and inches: 1' = 304.8 mm, 1" = 25.4 mm (10' = 3048 mm).
Bay	Space between two adjacent standards (or frames), along the length of the scaffold.
Lift / rise	Height between two levels of the scaffold; for a stair, height climbed by one flight.
Base	Level on which the scaffold bears.
Level	+6.000: height in metres relative to finished grade; + above, - below.
Standard	Vertical load-bearing tube; it carries the loads down to the screw jack and the sole plate.
Frame	Prefabricated unit of two standards joined by cross members; frames are stacked.
Coupling pin	Pin that aligns two stacked frames.
Ledger / rail	Horizontal tube between two standards; the guardrail rails (top rail and mid-rail) protect against falls.
Cross brace	Pair of crossed tubes between two frames that braces the scaffold.
Platform	Working or access surface made of decks.
Deck	Prefabricated platform unit set between two ledgers or frame bearers.
Guardrail	Fall protection at the edge of a platform: top rail, mid-rail and toeboard.
Toeboard	Board set on edge at the platform edge, which stops objects from falling.
Screw jack / base jack	Adjustable threaded base under a standard, used to level the scaffold.
Sole plate	Timber piece under the screw jack that spreads the load on the ground.
Tie	Connection of the scaffold to the wall or structure, which holds it against overturning and wind.
Coupler	Fitting that clamps one tube to another.
Anchor	Fixing in the wall or structure that holds the tie; pull-out test before installation.
Landing	Rest platform of an access, between two stair flights or two ladders.
Tarp	Sheet fixed on the outer face of the scaffold; it increases the wind load and the force on the ties.
Net	Protection net on the outer face. Its solidity ratio (share of solid area) governs the wind load.
Duty class	Live load per platform: light 1.2 kPa, intermediate 2.4 kPa, heavy 3.6 kPa (CSA S269.2-16, clause 6.2.3).
Load takedown	Load each standard transmits to its support (dead load and live load, unfactored) and pressure under the sole plate.
Dead load / live load	Dead load: weight of the scaffold itself; live load: use load on the platforms according to the duty class.
kN	Kilonewton, unit of force: 1 kN ≈ 102 kgf ≈ 225 lbf.
kPa	Kilopascal, pressure or load per area: 1 kPa = 1 kN/m² ≈ 20.9 psf.
q1/50	Hourly wind pressure with a 1-in-50 annual probability of being exceeded, at the site (NBC 2020, Appendix C, Table C-2).
INDICATIVE	Calculation given for information, not checked by an engineer; it does not set the ties.
CSTC	Quebec Safety Code for the construction industry (CQLR, c. S-2.1, r. 4), cited by section.
CNESST	Quebec's labour standards, pay equity and workplace health and safety board.
CSA S269.2-16	CSA design standard for access scaffolding (2016 edition), cited by clause.
CSA Z797:23	CSA standard for the erection, use and inspection of access scaffolding (2023 edition).
NBC	National Building Code of Canada; the edition and article follow the acronym.
Not checked	Check the drawing does not perform because a value is missing; the line names it, and the revision that receives it adds the check.

LEGEND

Symbol	Meaning
	Parts “Bases”: line colour (0.35 mm) and fill.
	Parts “Structure”: line colour (0.5 mm) and fill.
	Parts “Bracing”: line colour (0.25 mm) and fill.
	Parts “Platforms”: line colour (0.18 mm) and fill.
	Parts “Access”: line colour (0.35 mm) and fill.
	Parts “Guardrails and toeboards”: line colour (0.35 mm) and fill.
	Parts “Ties”: line colour (0.35 mm) and fill.
	Tube seen end-on (standard in the plan view).
	Existing structure, for reference, not in the bill of materials (EXISTING WALL): grey hatching.
	Ground or bearing surface: heavy line and hatching.
	Dimension: dimension line, extension lines and oblique ticks at the ends; length in mm.
	Platform level: solid triangle, value in bold; dashed leader line.
	Level without a platform (lift, base, structure datum): open triangle.
	Item number of the part in the bill of materials.
	View title, underlined, with its scale below.
	Frame zone reference (columns 1 to 8, rows A to F), to locate a detail: C4.
	Third-angle projection (ISO 5456-2); chain line: axis.
	Verification QR code: opens the public page that confirms the document is authentic.

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PRELIMINARY: NOT FOR ERECTION

Company		Title			
Entreprise Démo TektonAI		Three-storey sixplex, street façade			
Client		Terms and legend of the drawing			
		Site (Quebec)			
Montréal (Québec)					
Drawn by		Checked by		Approved by	Date
Julie Exemple					2026-10-23
Scale		Format	Units	Projection	
Not to scale		A3	mm		Third angle (ISO 5456-2)
Drawing no.			Rev.	Sheet	Status
ECH-261023-17A3			A	3 / 3	PRELIMINARY