

NOUVELLE ÉCOLE SECONDAIRE
ORLÉANS SUD
DESIGN REPORT AND PLANNING RATIONALE
January 31, 2025

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CONTACT LIST

CONSEIL DES ÉCOLES PUBLIQUES DE L'ONTARIO

Eric Charbonneau
Deputy Director - Construction
2445 ST-LAURENT BLVD.,
OTTAWA, ON K1G 6C3

GRC ARCHITECTS | PROVENCHER_ROY

Carolyn Jones, Principal-in-Charge
Patrick Dubuc, Senior Associate and Technical Advisor
Michèle Gagnon, Project Architect
47 Clarence Street, Suite 440
Ottawa, ON K1N 9K4

LRL ENGINEERING

Civil Engineering
Kyle Herold, Civil Engineering Technologist
5430 Canotek Rd.,
Ottawa, ON K1J 9G2

CUNNLIFFE & ASSOCIATES

Structural Engineering
Rick Cunliffe, Structural Engineer
200-1550 Carling Ave.,
Ottawa, ON K1Z 8S8

LRL ENGINEERING

Electrical/Mechanical Engineering
Sébastien Soucy, Mechanical Engineer
5430 Canotek Rd.,
Ottawa, ON K1J 9G2

JAMES B. LENNOX

Landscape Architecture
James Lennox, Landscape Architect
3332 Carling Ave.,
Ottawa, ON K2H 5A8

FOOD SERVICE CONSULTANTS SOCIETY INTERNATIONAL

Food Service Consultant
Doug Feltmate, Food Service Consultant
1671 Orford crescent
Ottawa, ON K4V 1V3

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PART 1 - SITE

PART 1 _ INTRODUCTION

DESIGN PROPOSAL

The new CEPEO high school in Orleans mainly consists of an academic wing (classrooms, science and computer labs) and a community wing (double gymnasium, library, cafeteria and multipurpose performance space).

The 84,713 sq. ft. (7,873 m2) school is scheduled to be built beginning in the summer of 2025, with a planned opening in the fall of 2027 for 713 students. A designated area for 12 portables has been identified on the site plan. A second phase of expansion is planned to meet the growing needs and demands of the local community. The school board has set a target of 1,091 students for the fully constructed school.

Design Overview

- The building is located facing Mer-Bleue road while having welcoming visibility from the elementary school on site, the future residential neighbourhood and along the pedestrian pathway tieing in the currently built residential neighbourhood to Mer-Bleue.
- The main entrance on Mer-Bleue welcomes students and staff arriving by bicycle or foot. A secondary entrance is provided on the northwest side of the building for staff and students arriving by car from the adjacent parking lot. A third entrance is provided on the southeast façade for students arriving by bus.
- A central lobby with access to the gymnasium, library, cafeteria and stage should be made available to the community outside of school hours.
- The building footprint must be compact to preserve green spaces and allow for future development on the site.
- In terms of outdoor facilities, there is a basketball court and a multi-use trail.
- The building was sited and designed to allow for future expansion of the facility. Future areas for development were identified (addition to the classroom wing on the southeast corner of the building; addition to the west of the gymnasium facilities; an area was designated for future portables).

SUSTAINABLE DEVELOPMENT CONSIDERATIONS

The design was implemented based on energy conservation strategies and sustainable building practices to design healthy living spaces.

- Building orientation should take into account savings and potential passive solar energy opportunities.
- Maximize energy efficiency through best practice building envelope design, including thermally efficient glazing.
- Select sustainable materials (life cycle cost) with a high recycled content.
- Place windows strategically to maximize natural light and views.
- Common areas are located in spaces well lit by natural light. Every occupied space in the building has access to natural light.
- Specify low-flow, low-flush plumbing fixtures to minimize water consumption.
- Specify mechanical and electrical systems that are energy efficient, require minimal maintenance and are easy to use.
- LED lighting will be used to minimize energy loads. Lighting controls such as occupancy sensors
- Minimization of construction waste
- The compact volume of the new secondary school minimises the impact of the building’s footprint on the school grounds and the environment.
- The location at the northeast corner of the site minimizes development at the southern end of the site which is lower in elevation and closer to the flood plains.
- Flexibility in design, ability to expand and provide spaces capable of serving multiple functions.

PART 1 _ SITE DESCRIPTION



OTTAWA CITY MAP - SITE LOCATION

PART 1 _ SITE DESCRIPTION

Administrative region : Municipality of
Cumberland, City of Ottawa

Total area : 64 477 m²

Address : 2405 & 2419 Mer-Bleue
Street, Ottawa, ON K4A 3V1

Site Description

- The property is located south of Orleans, and is accessible from Mer-Bleue Street which connects downtown Orleans to the Notre-Dame-des-Champs sector.
- The property is currently occupied by an abandoned house bordering the street as well as the remains of exterior developments corresponding to the demolished industrial buildings including a storage barn, a gravel-covered space having been used for a commercial materials storage operation.



SITE VIEW - DESCRIPTION

PART 1 _ SITE DESCRIPTION

Immediate context

NORTH

- Recent residential area composed of townhouses and condominiums ranging in height from two to three stories.

EAST

- Future elementary school (under construction) on two floors (northeast) and future residential area (southeast).

WEST

- Vacant wooded site and a few single-family homes.

SOUTH

- Private property with a single-family home along the street, a shed set back from the lot, and a strip of vegetation along neighboring properties.
- Further to the southeast is land reserved for future residential development.



SITE MAP - IMMEDIATE CONTEXT

PART 1 _ PHOTOGRAPHS OF EXISTING CONDITIONS



1. VIEW FROM MER-BLEUE TOWARDS THE RESIDENTIAL AREA



2. VIEW FROM THE DEMOLISHED INDUSTRIAL SITE



3. VIEW OF THE DEMOLISHED INDUSTRIAL PARKING



4. VIEW FROM THE EXISTING RESIDENCE TOWARDS THE RESIDENTIAL AREA

PART 1 _ PHOTOGRAPHS OF EXISTING CONDITIONS



4. EXISTING RESIDENTIAL BUILDING



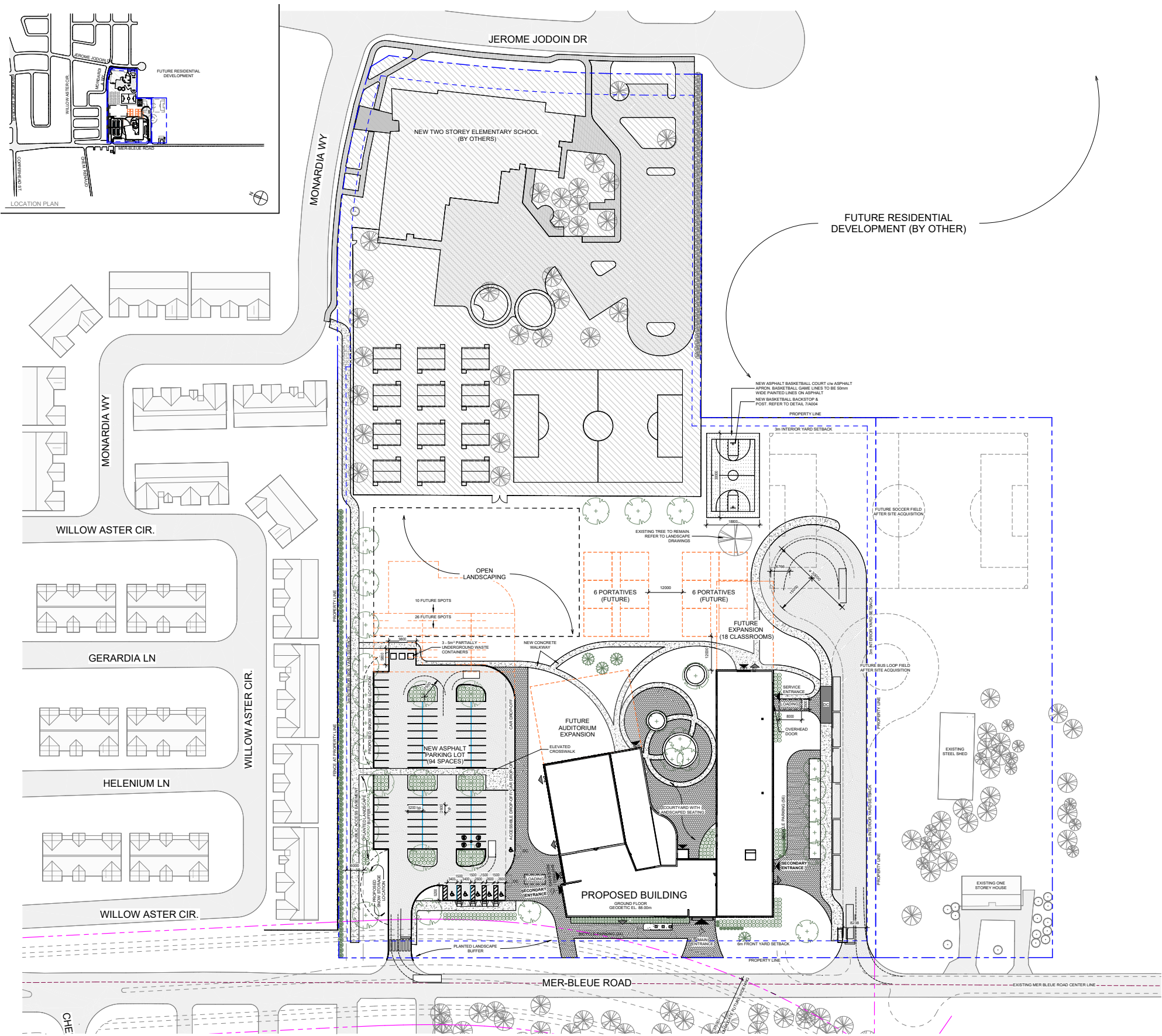
5. POTENTIALLY CONTAMINATED WATER POOL



6. EXISTING MATURE TREE

PART 2 - DRAWINGS

PART 2 _ SITE GUIDELINES



GUIDELINES 01 :

The building is located on the southeast corner, maximizing visibility and accessibility from Mer-Bleue Street and the interior street serving the parking area, creating a remarkable visual impact in the residential context. The main entrance opens directly onto the street to facilitate access for pedestrians arriving from Mer-Bleue Street where there will be a school bus stop. A secondary entrance accessible from the parking lot is planned for cars and bicycles.

GUIDELINES 02 :

The gymnasiums are ideally located near the parking lot and in direct relation to the elementary school under construction to the east, with direct access to the soccer and basketball fields to maximize their use.

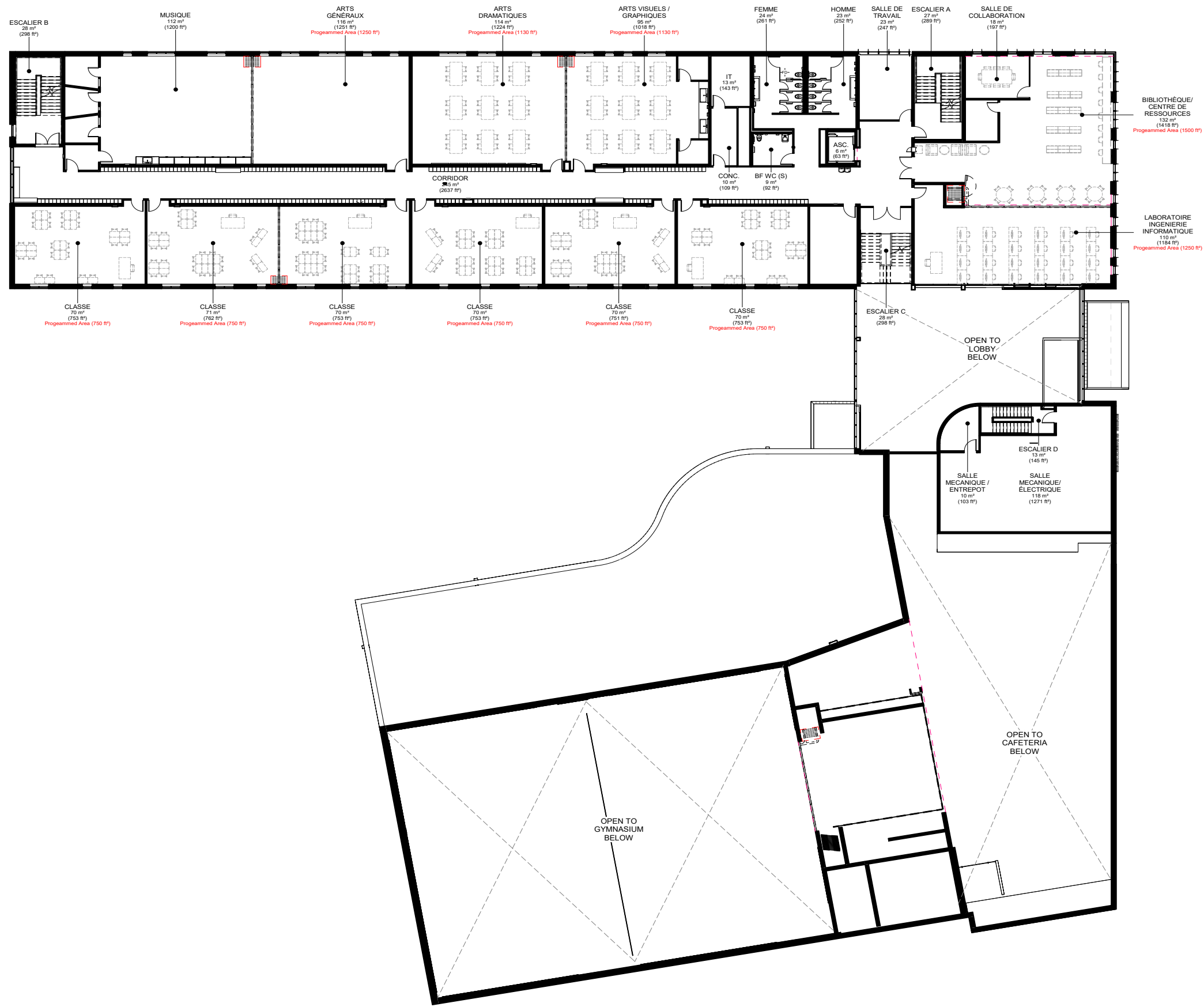
GUIDELINES 03 :

The building is located on the southern part of the site, so as to create a distance from the residential community. The building footprint is to be compact in order to preserve green spaces and allow for future development on the site. A future auditorium is being built next to the double gymnasium. Additional classrooms are to be added next to the classroom wing.

PART 2_FLOOR PLANS



PART 2_FLOOR PLANS



LEVEL 02 PLAN



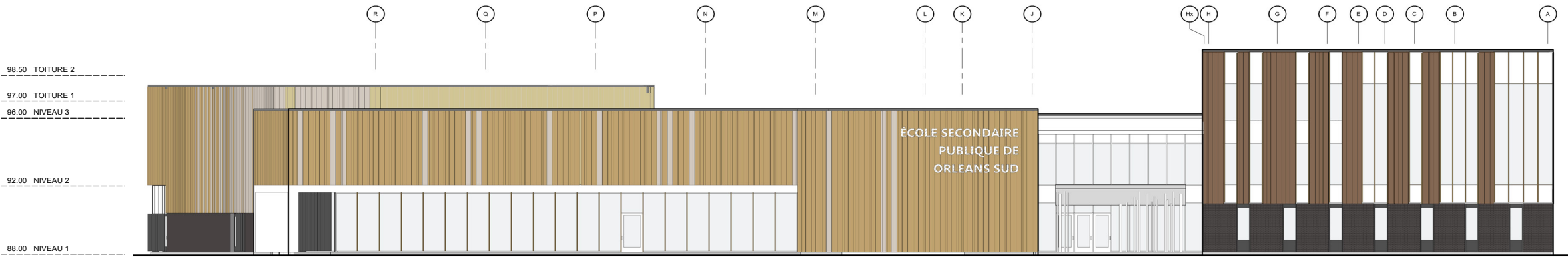
PART 2_FLOOR PLANS



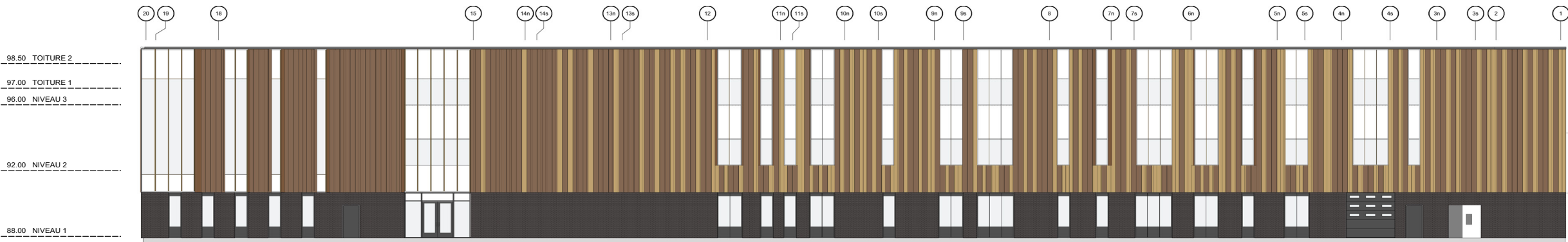
LEVEL 03 PLAN



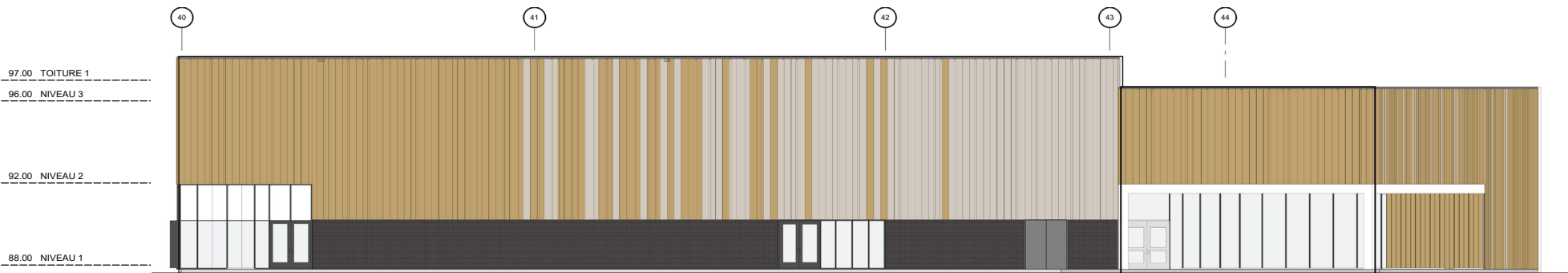
PART 2_ELEVATIONS



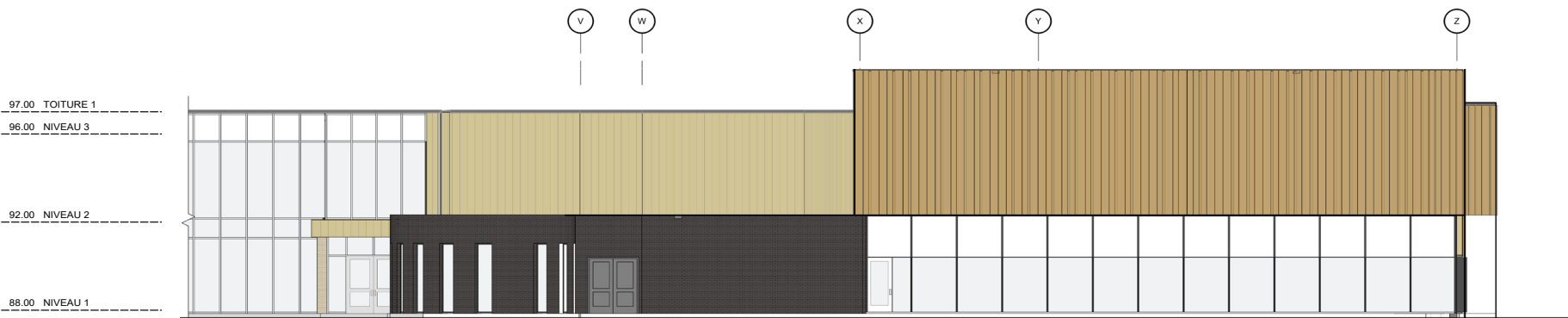
NORTHEAST FAÇADE - FROM MER-BLEUE ROAD



SOUTHEAST FAÇADE - FROM BUS LOOP



NORTHWEST FAÇADE - FROM PARKING LOT



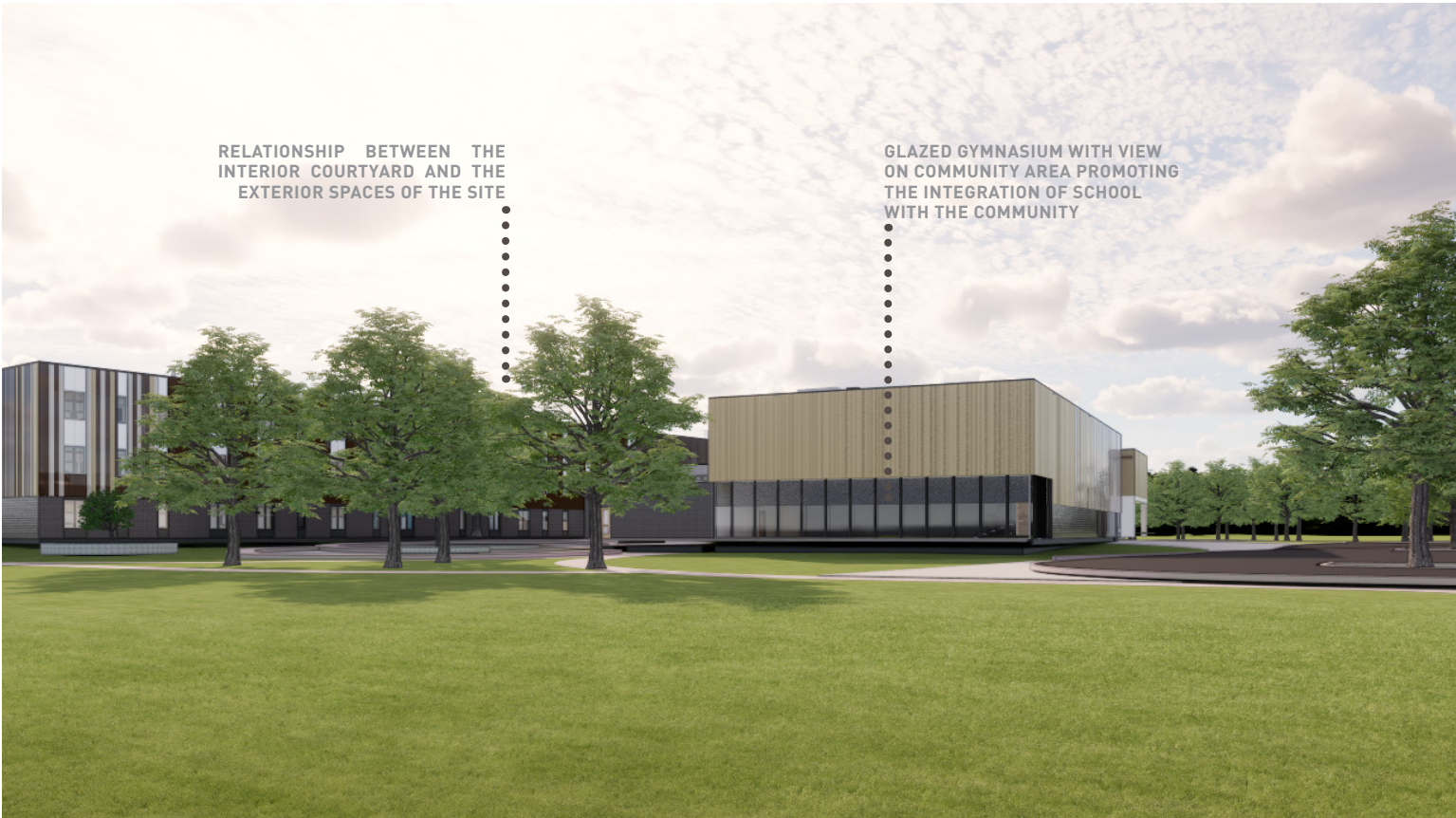
NORTHEAST FAÇADE - FROM ELEMENTARY SCHOOL

PART 2_ 3D VIEWS

Note: Refer to landscaping drawings for the site design and planting location.



VIEW ON THE LIBRARY FROM MER-BLEUE ROAD



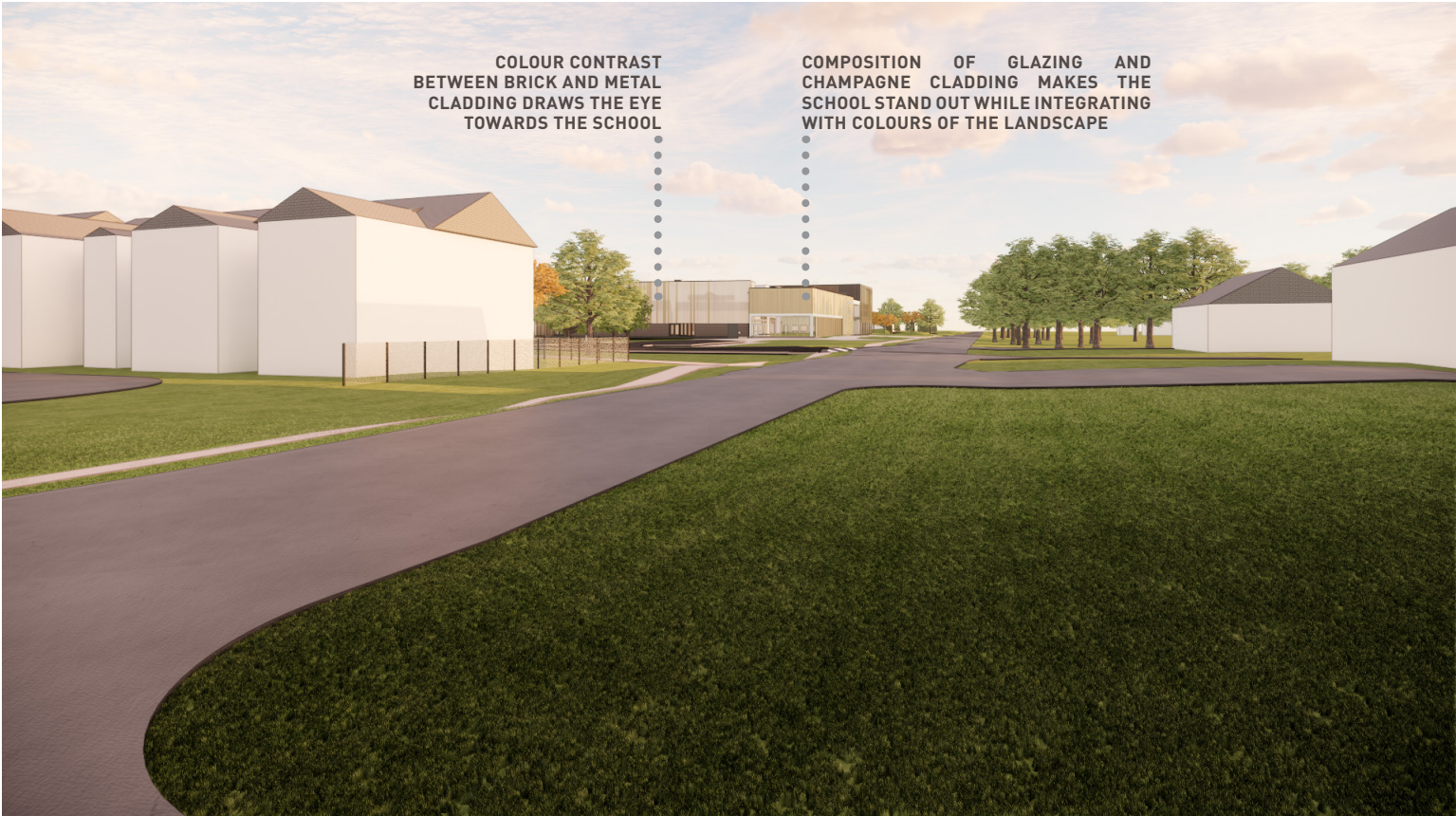
VIEW ON THE GYMNASIUM AND THE COURTYARD FROM THE ELEMENTARY SCHOOL

PART 2_3D VIEWS

Note: Refer to landscaping drawings for the site design and planting location.



VIEW ON THE CAFETERIA AND THE GYMNASIUM FROM MER-BLEU ROAD



VIEW ON THE SCHOOL CORNER FROM MER-BLEUE AND RENEAUD INTERSECTION

grc architects
A PROVENCHER_ROY COMPANY