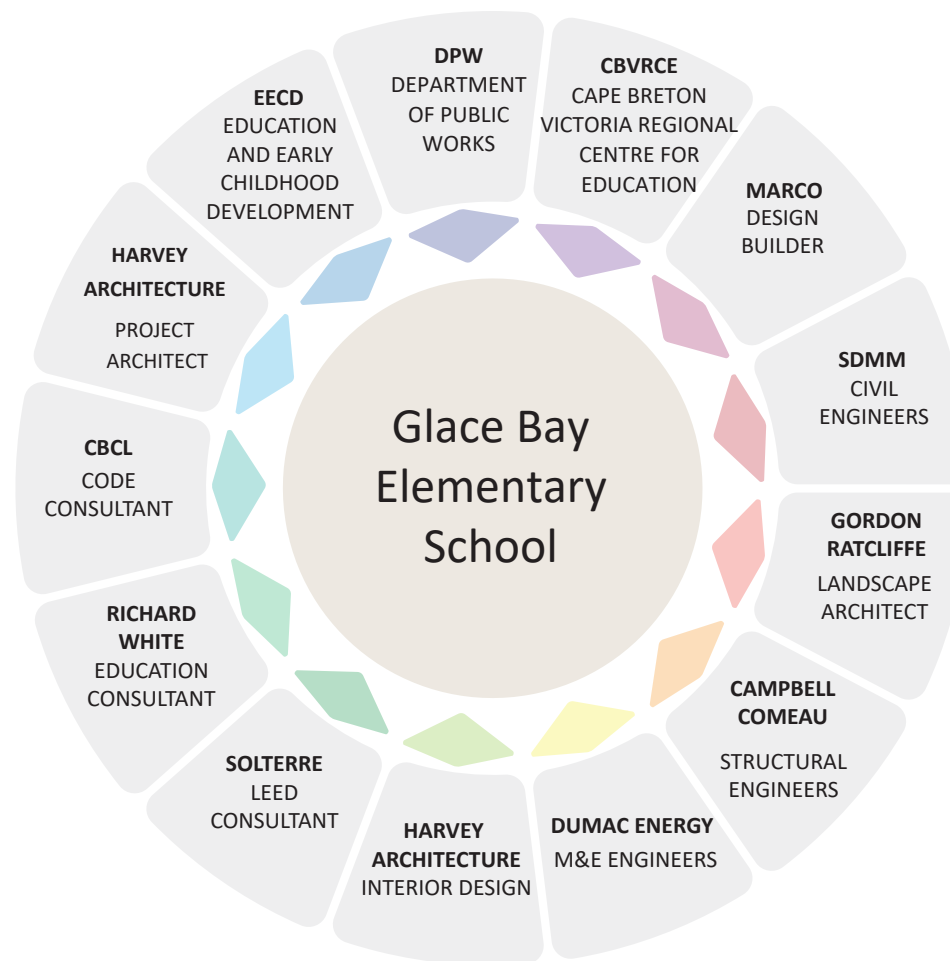


SCHEMATIC DESIGN
PRESENTATION

CONTENTS

1. SITE LAYOUT	01
2. INTERIOR LAYOUT	02
3. BUILDING MASSING	03



SITE LAYOUT

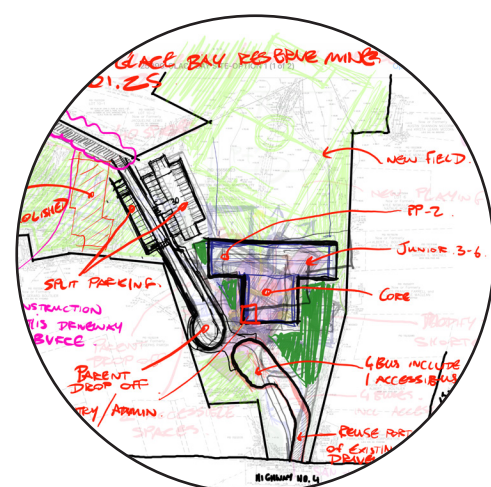
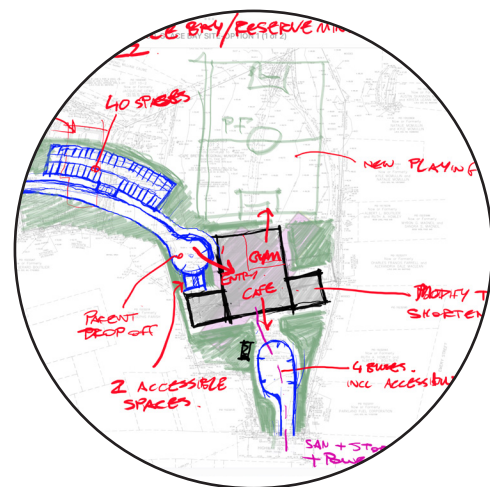
SITE CHALLENGES & OPPORTUNITIES:

- Grade
- Existing School
- Property lines

DESIGN RESPONSE:

Test various building forms and configurations to create the optimum point of arrival to support multiple objectives:

- Welcome and open
- Central location on site
- Service both parent and bus drop off



SITE LAYOUT

BUILDING & SURROUNDING LANDSCAPE:

Position/orientation & relationship to natural and built landscape was guided by the following priorities:

- separation between outdoor play/circulation and vehicular travel, parking and service.
- lighting
- visibility and ease of access

DESIGN ELEMENTS:

- Planters and precast
- utilize natural daylighting, minimize travel distances and maximize visibility
- views and building access strengthen relationship between the core hub area and key outdoor spaces



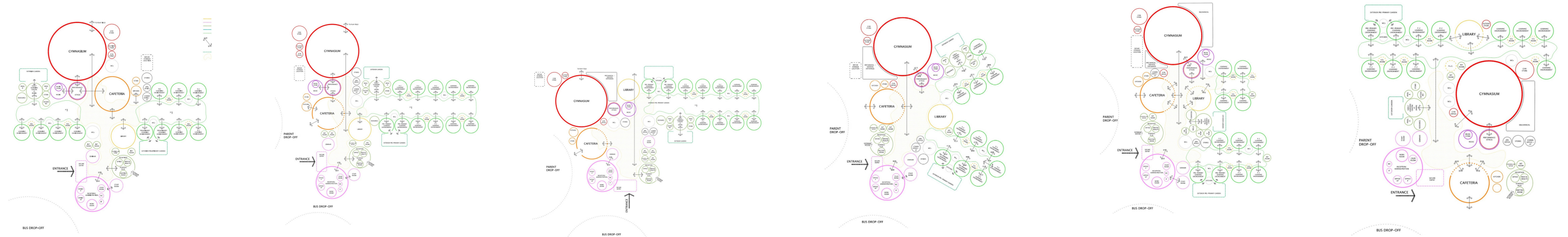
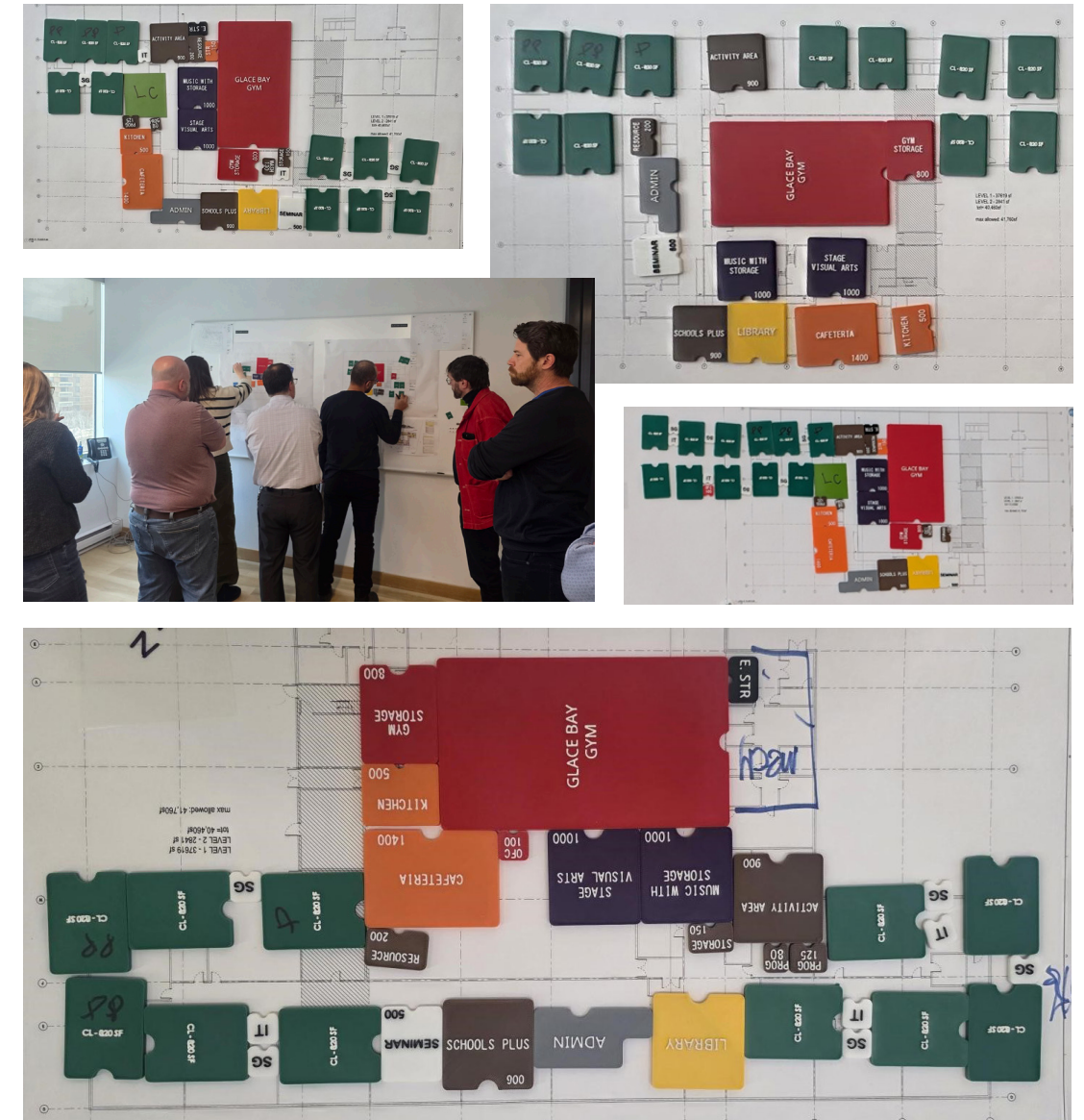
BUILDING DESIGN: LAYOUT

BUILDING LAYOUT GUIDING PRINCIPLES:

- Steam Approach: Collaborative, inclusive, flexible
- EECD standards/adaptability
- spaces that create synergy, optimal learning opportunities, and connectivity to the overall site.

ADJACENCIES:

- Diagrammatic exploration
- Workshop session

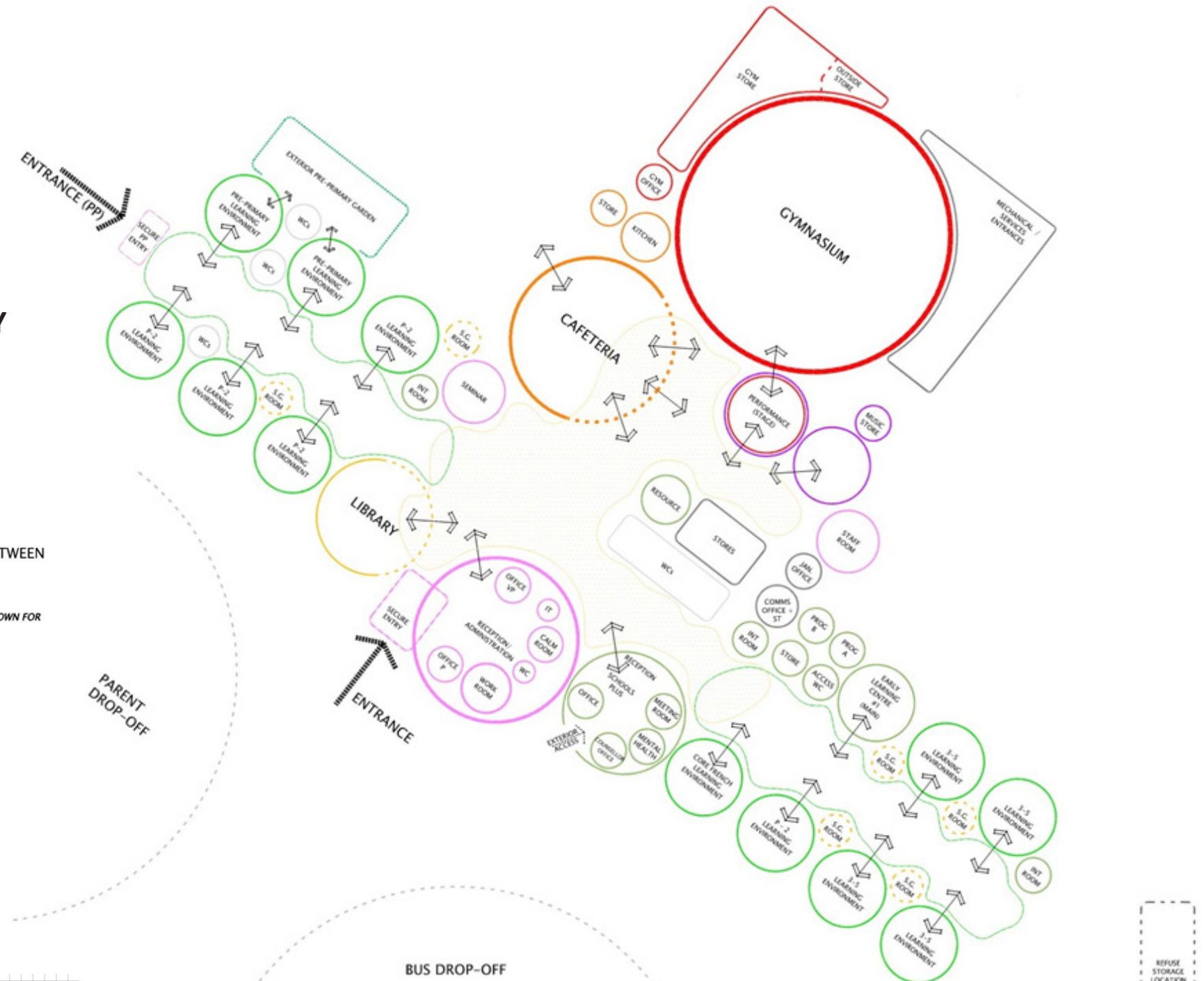
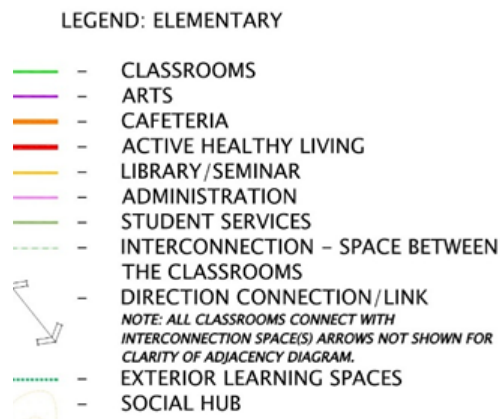


BUILDING DESIGN: LAYOUT

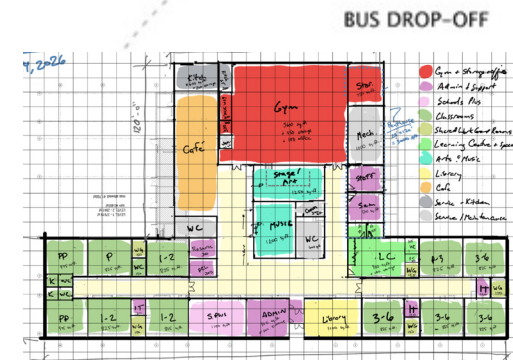
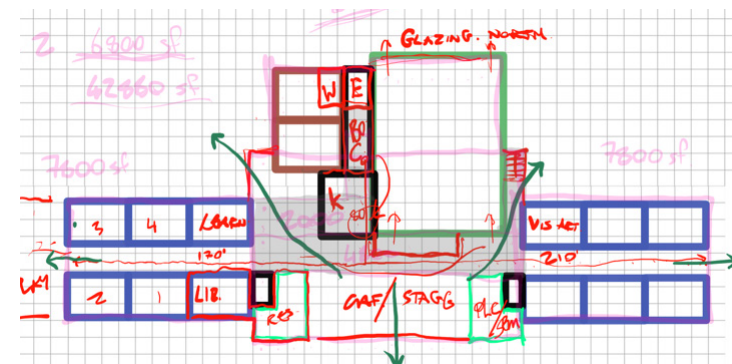
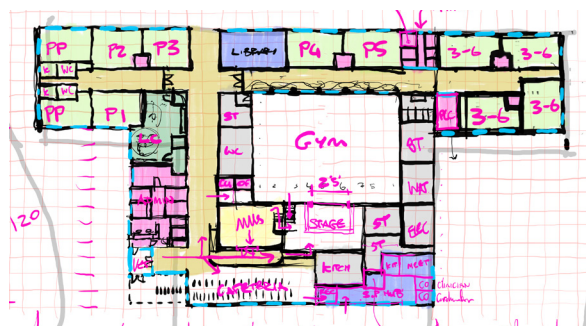
ATTRIBUTES:

- effective security and supervision
- optimized daylighting
- universal design, circulation wayfinding
- inclusive and supportive learning
- flexible, supportive, collaborative and inclusive learning

FINAL SD ADJACENCY DIAGRAM



SAP > ADJACENCY >> BLOCK LAYOUTS >>> FLOOR PLAN

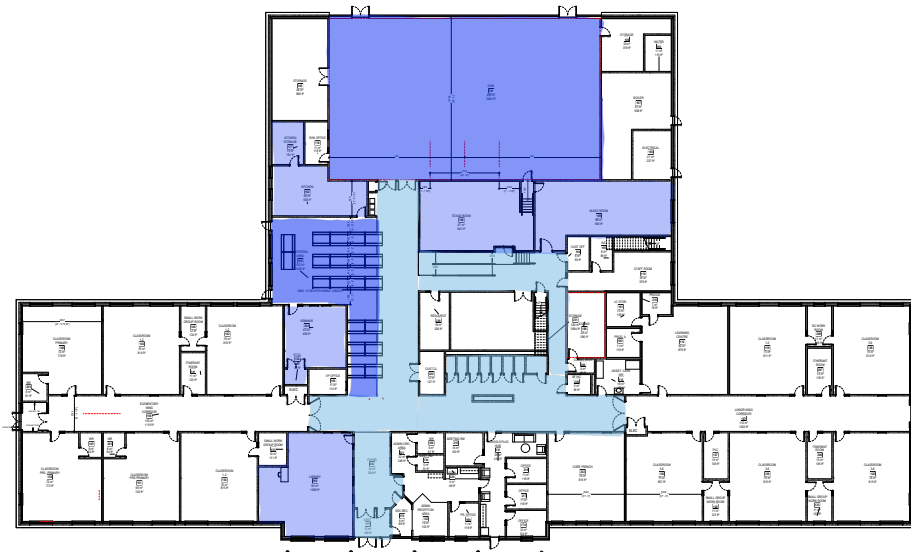


DESIGN ATTRIBUTES:

- Strong central axis
- Open core area
- Corridor wings
- Stage/Music/Cafe/Gym
- Secondary circulation
- Indoor / Outdoor adjacency
- Admin/Staff visibility

Program Layout

- TYPICAL CLASSROOM
- SPECIALTY CLASSROOM
- SHARED WORKGROUP ROOMS
- KITCHEN
- SUPPORT SPACES
- ADMIN & STAFF
- LEARNING CENTRE
- LIBRARY
- PERFORMANCE SPACES
- GYMNASIUM
- STORAGE
- UTILITY & MAINTENANCE
- GENERAL WASHROOMS



Community Events

- GATHERING SPACES
- SERVICE ROOMS / FACILITIES
- CIRCULATION AREA

BUILDING DESIGN CONCEPTS

DESIGN INSPIRATION: Colour, Texture & Materiality

- > Legacy of community collaboration
- > Natural Landscape

Sea & the Sky

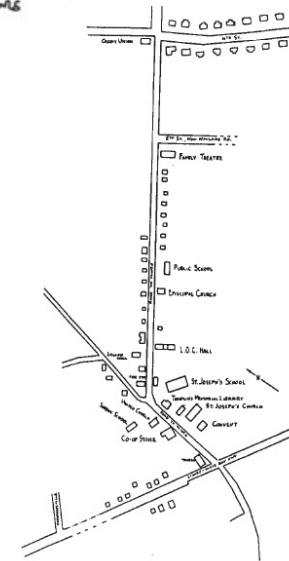
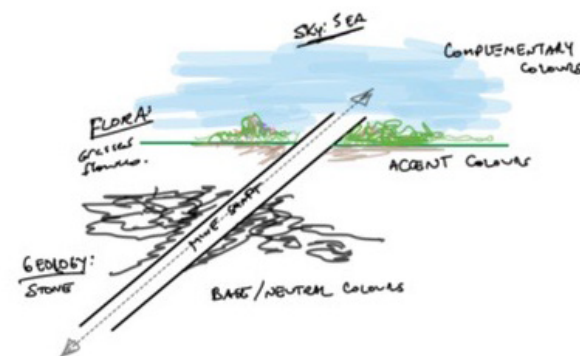
The epic sunrise and sunsets of Cape Breton

Local Flora of Reserve Mines

Beauty found in the natural environment, local species provide a source of inspiration for interior colours.

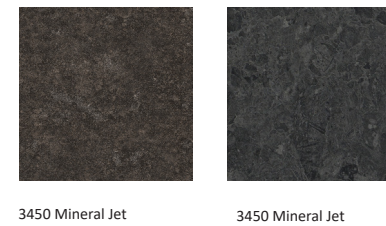
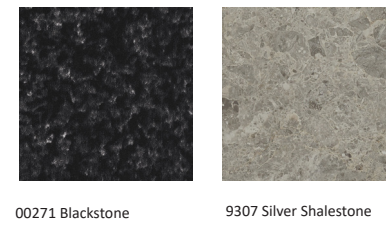
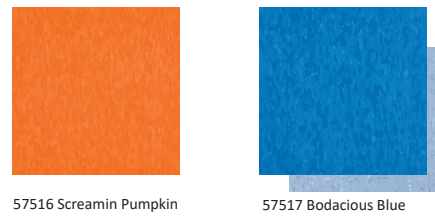
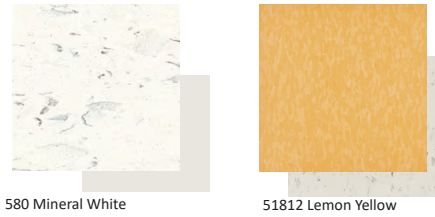
Geology

Local types found (outside of the coal seams) are sandstone, shale and sedimentary.



BUILDING DESIGN CONCEPTS

DESIGN INSPIRATION: Colour & Material Palettes

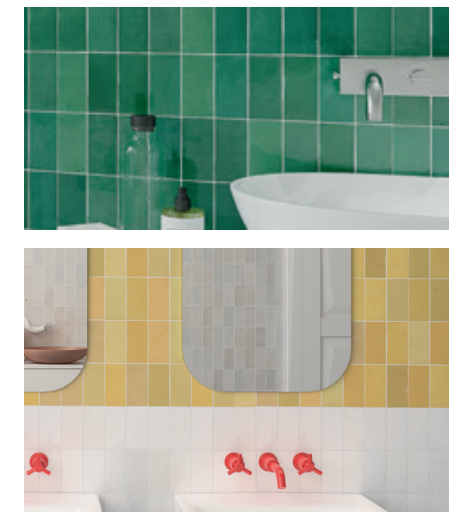


Vinyl Composition Tile (VCT)
- main lobby, classrooms,
corridor

Laminate
- counter tops
- corian at reception/library
- wood in learning centre

Tile:
- washrooms, kitchen
- material accent in key
areas (administration, core
area, etc.)

Colourful interiors for inspiration

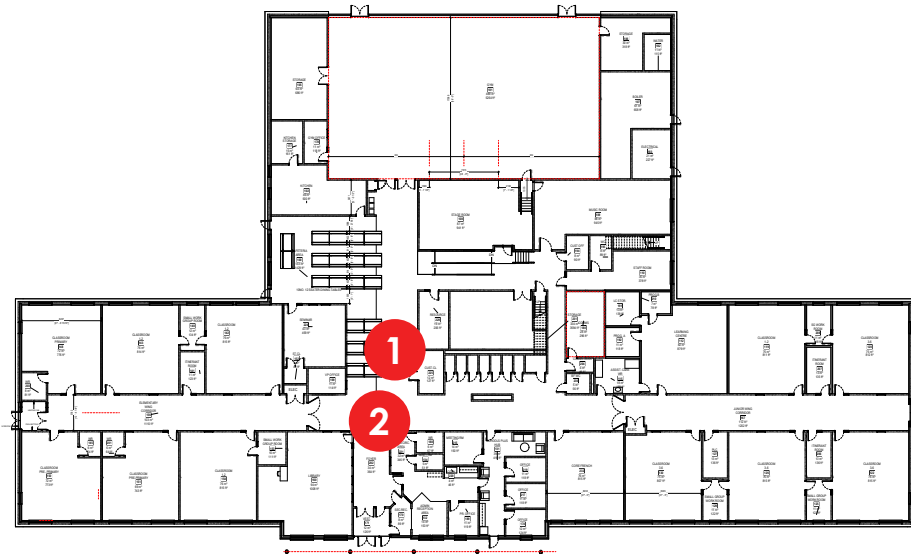
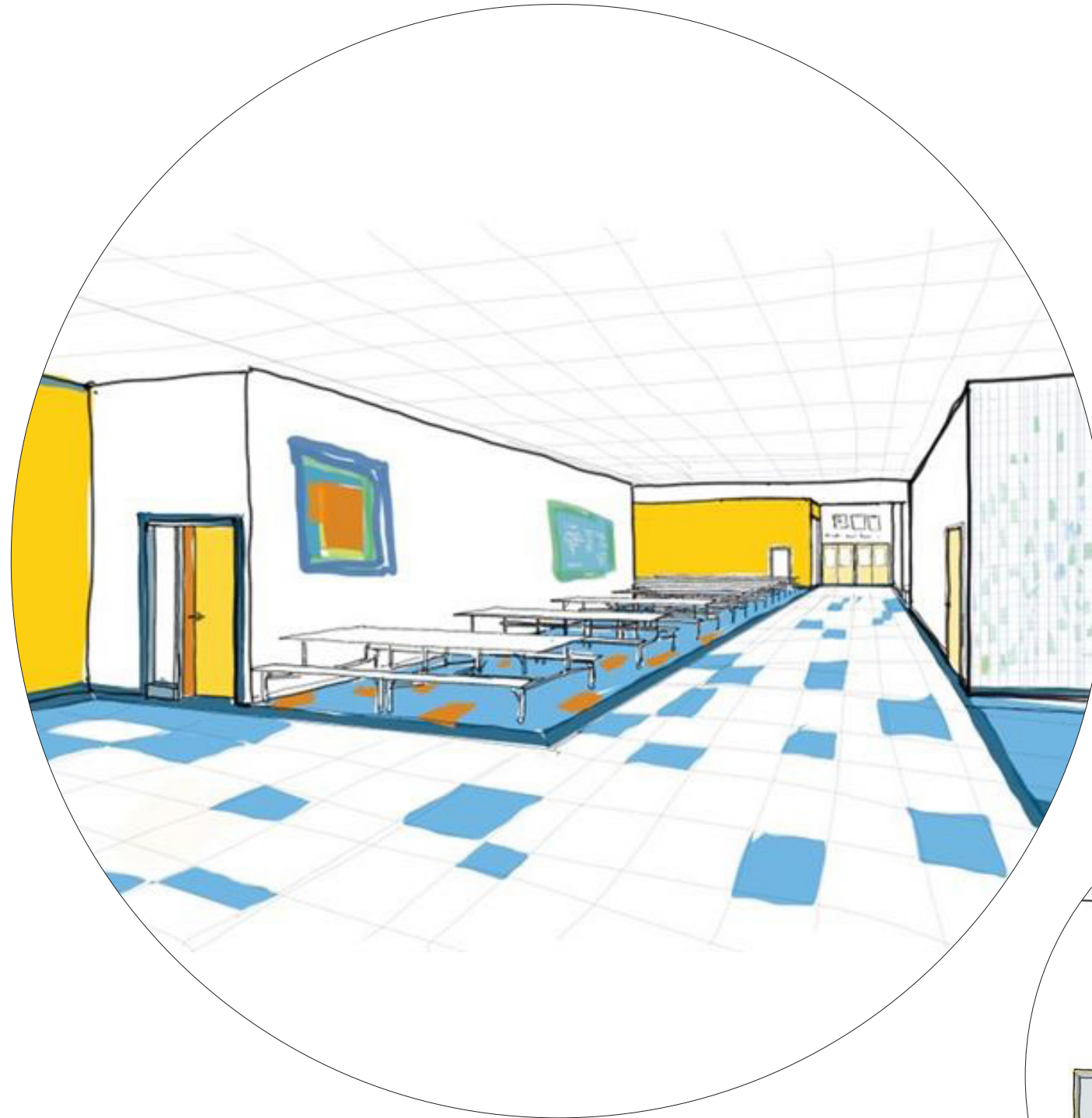


DESIGN CONCEPTS:

INTERIOR PERSPECTIVES

(For illustration purpose only and may not be reflective of final design)

> Entrance / Cafeteria

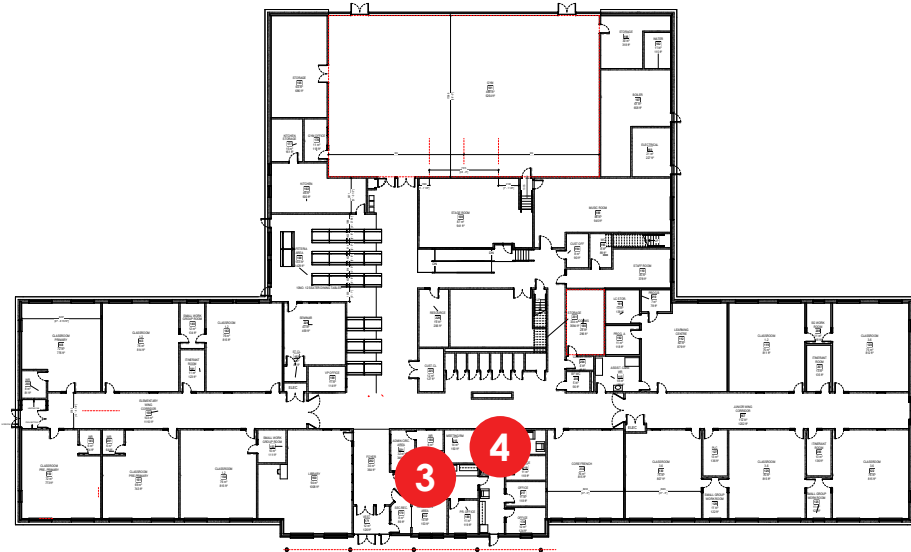
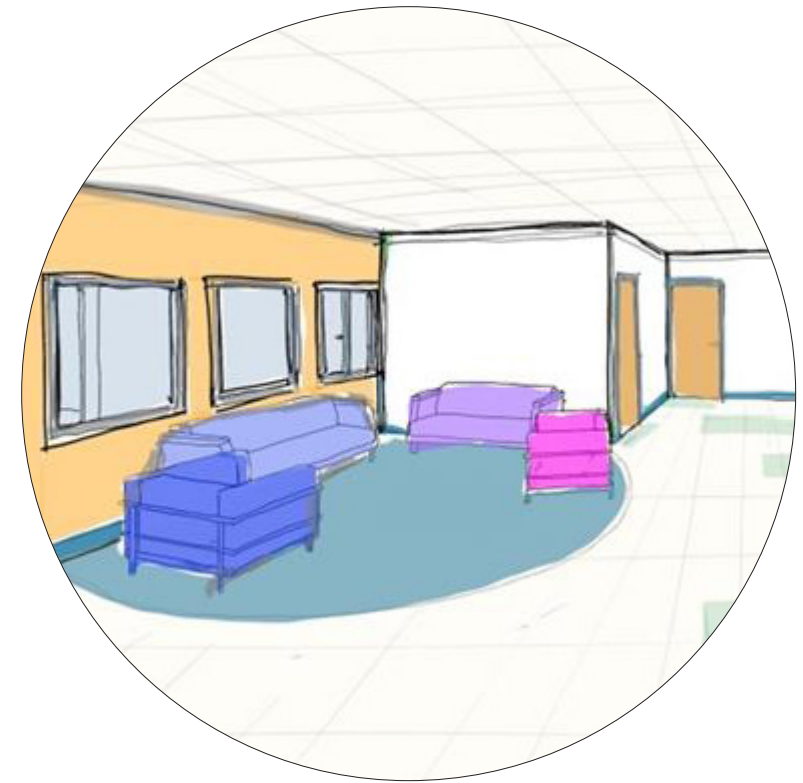
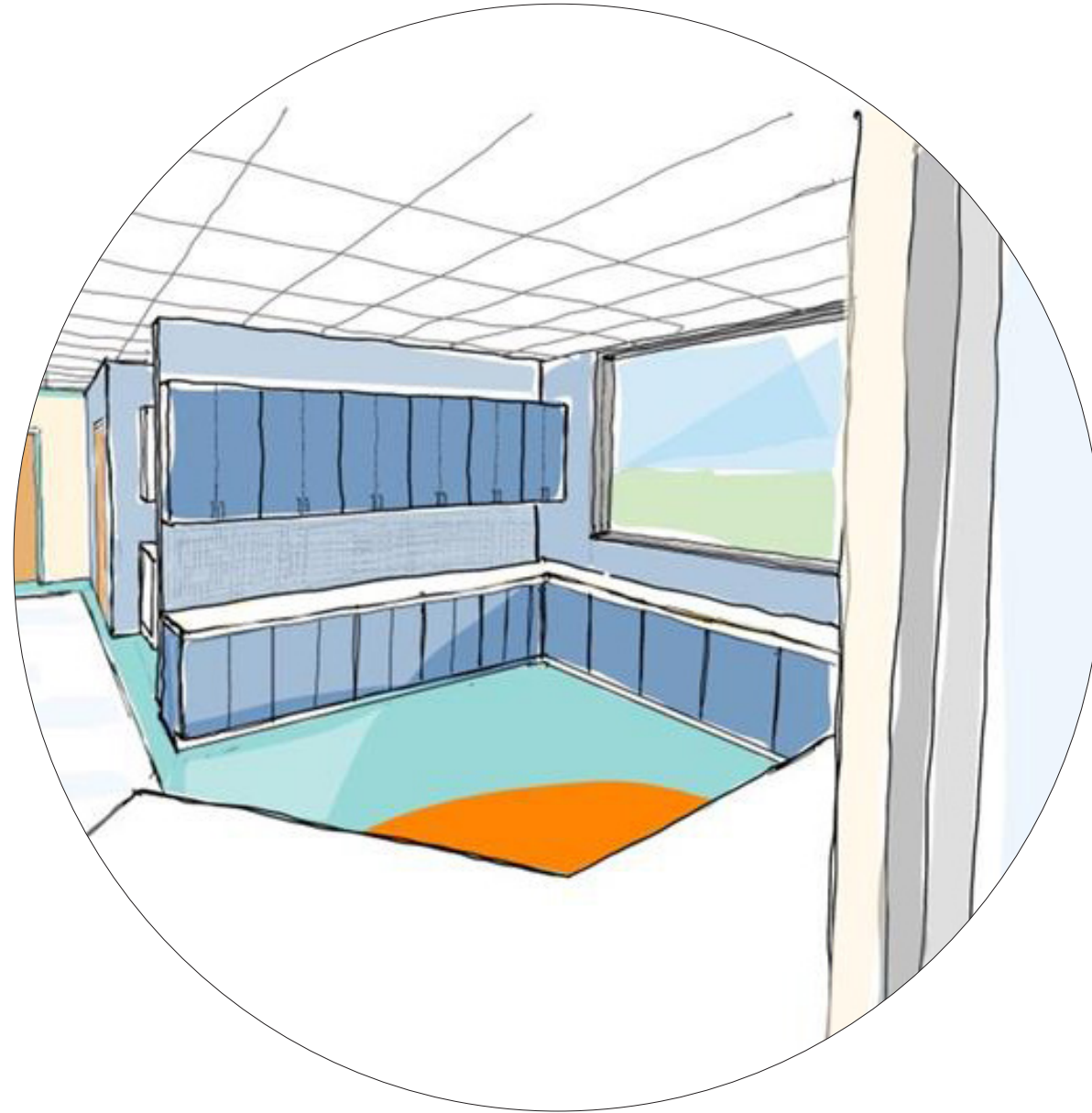


DESIGN CONCEPTS:

INTERIOR PERSPECTIVES

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> Administration / Schools Plus



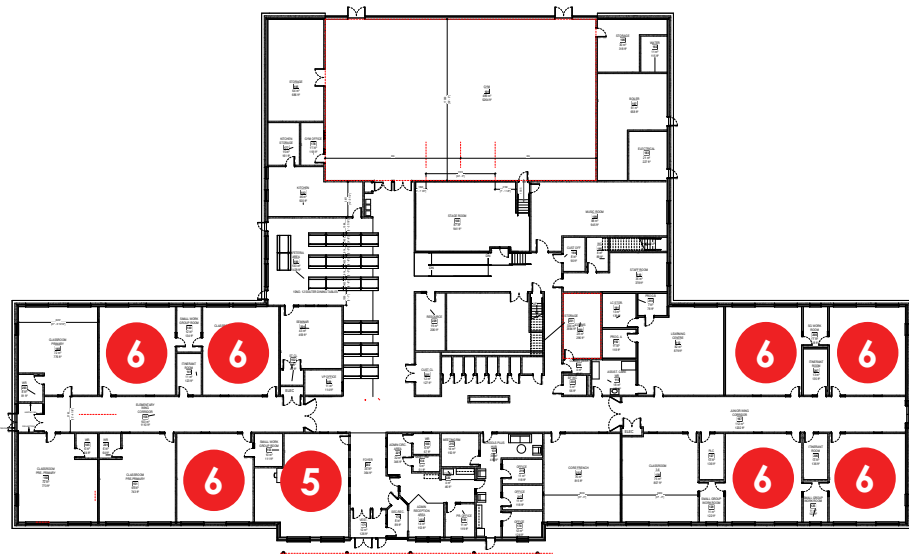
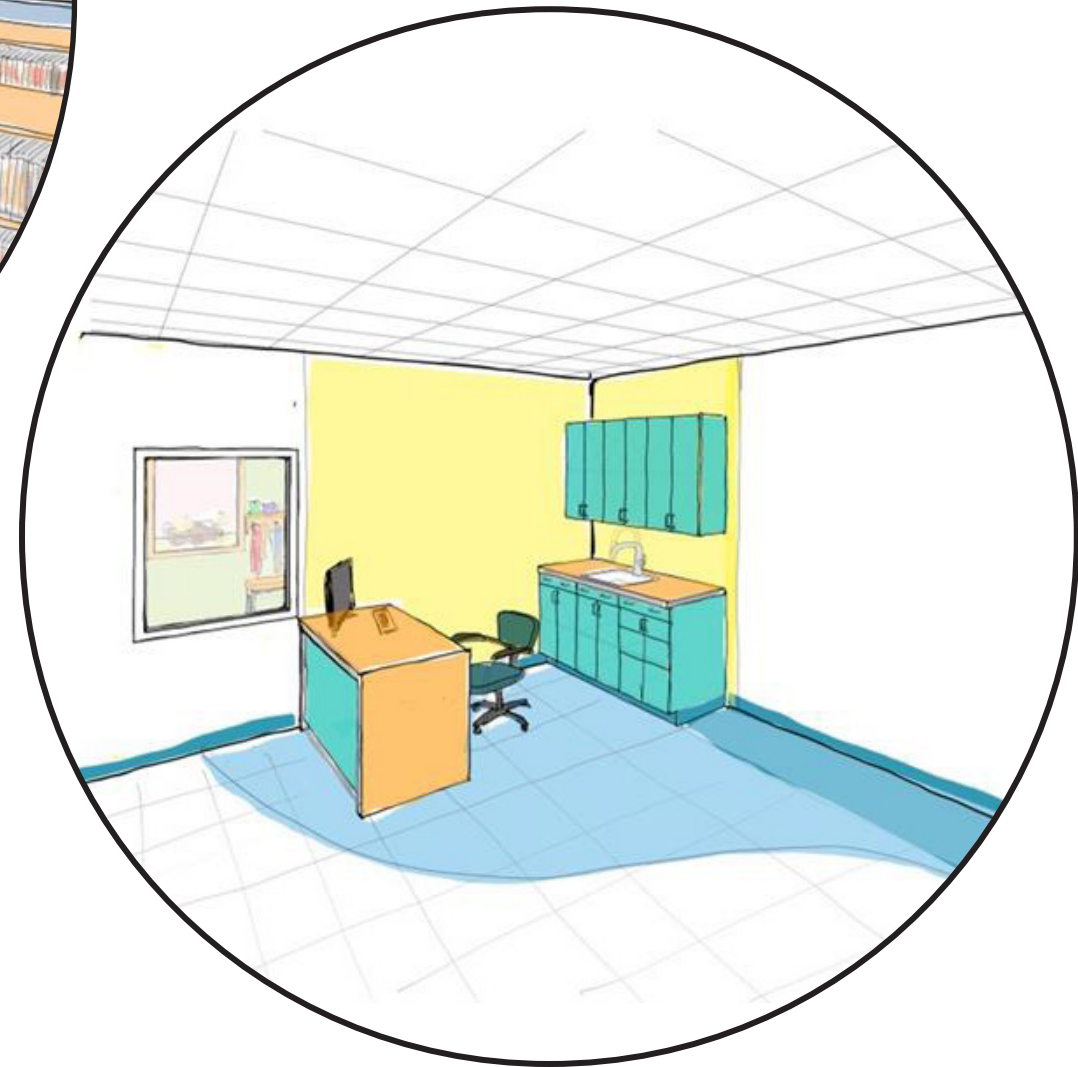
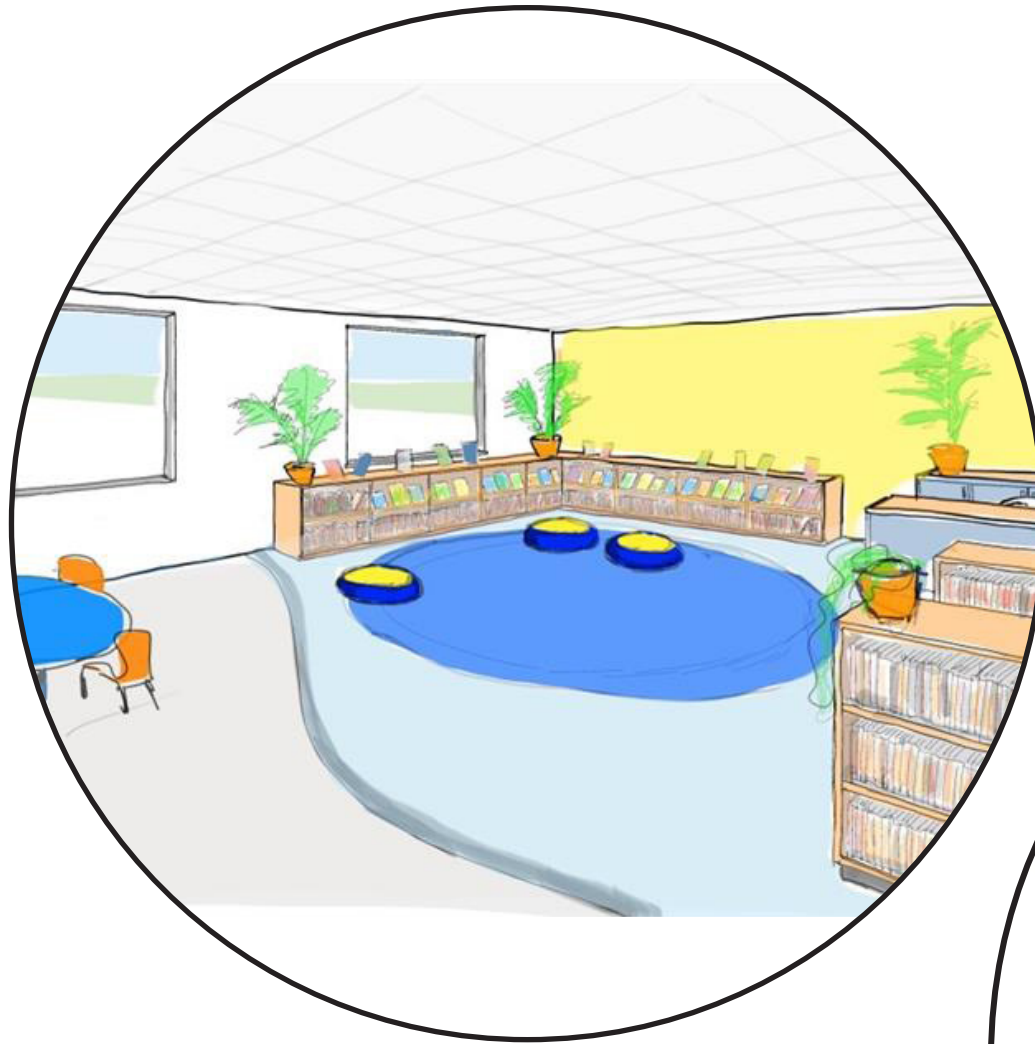
DESIGN CONCEPTS:

INTERIOR PERSPECTIVES

(For illustration purpose only and may not be reflective of final design)

> Library

> Typical Classroom



DESIGN CONCEPTS:

EXTERIOR CONCEPTS

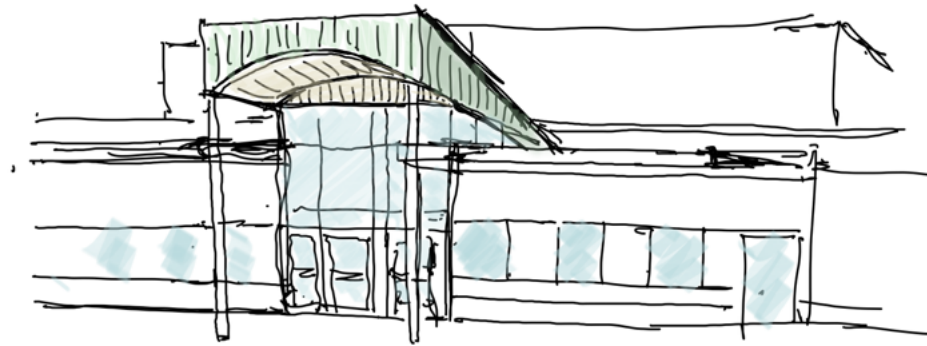
(Renderings for illustration purpose only and may not be reflective of final design)

Precast insulated sandwich panels:

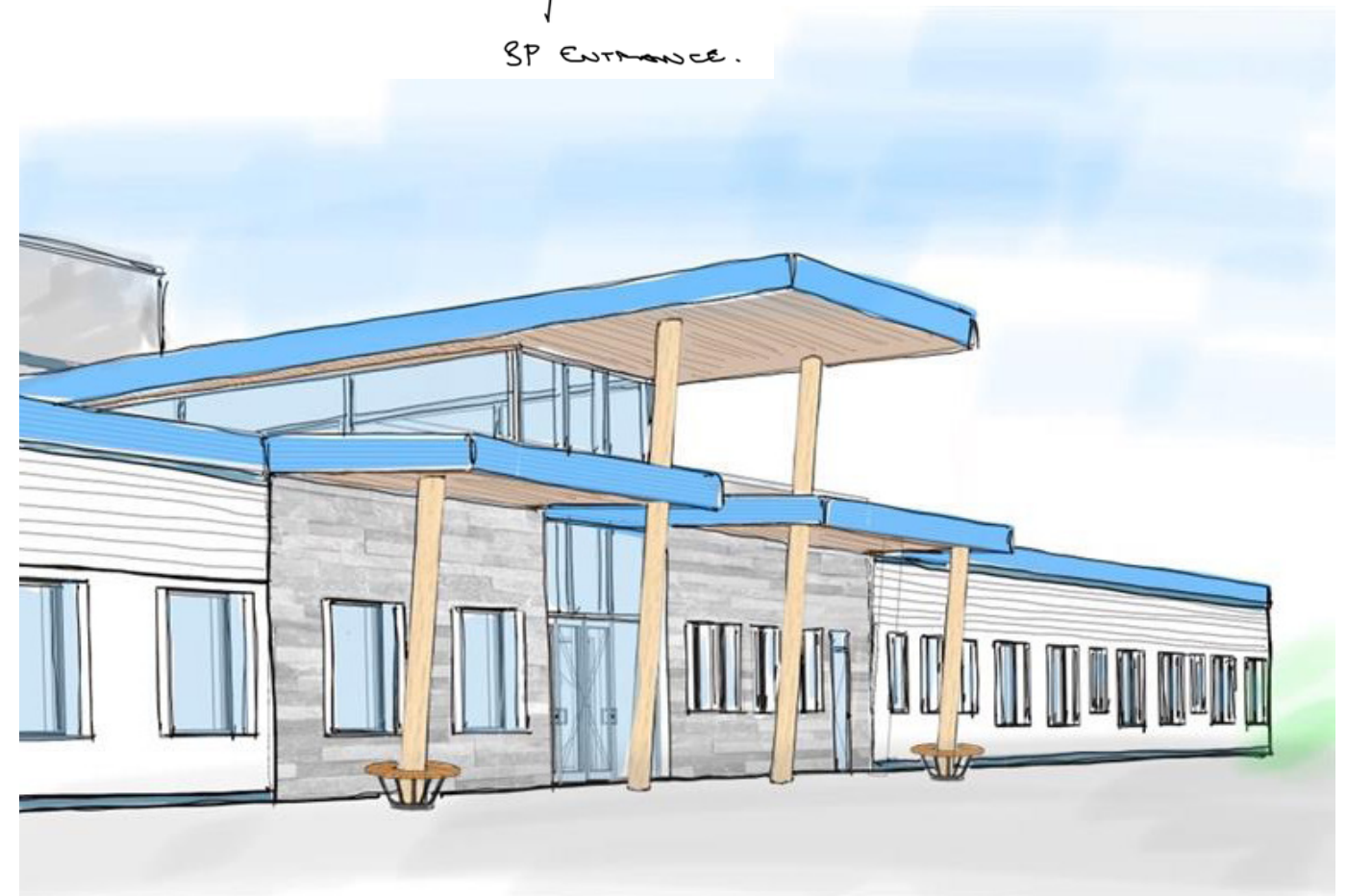
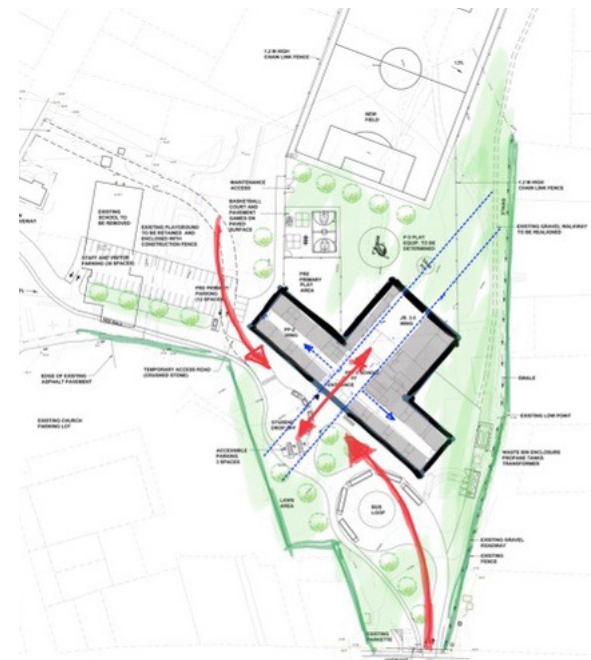
- finishes and customization
- signature community features
- performance

Non-combustible cladding:

- Standard colour metals,
- through-colour fibre cement large format panels,
- wood fibre integrated phenolic panels,
- porcelain tile and extruded aluminum plan.
- fire retardant treated wood for soffits/fascias
- Unit Masonry at the lower portion of walls



↑
SP ENTRANCE.



Category 1					
Regal White SR:0.70 E:0.86 SR:85	Ascot White SR:0.49 E:0.85 SR:83	Bone White SR:0.49 E:0.84 SR:83	Driftwood SR:0.45 E:0.86 SR:50	Sandstone SR:0.61 E:0.85 SR:72	Surrey Beige SR:0.48 E:0.86 SR:54
Category 2					
Dove Gray SR:0.49 E:0.86 SR:56	Zinc Gray SR:0.35 E:0.86 SR:37	Rawhide SR:0.55 E:0.85 SR:64	Parchment SR:0.53 E:0.85 SR:61	Rock Tan SR:0.62 E:0.86 SR:74	Taupestone SR:0.27 E:0.86 SR:26
Spartan Bronze SR:0.31 E:0.85 SR:31	Redwood SR:0.39 E:0.87 SR:43	Slate Blue SR:0.28 E:0.85 SR:27			
Category 3					
Colonial Red SR:0.33 E:0.87 SR:35	Evergreen SR:0.25 E:0.85 SR:24	Regal Blue SR:0.34 E:0.85 SR:24	Tahoe Blue SR:0.26 E:0.85 SR:24		

SR (Solar Reflectivity)
This is the ability of a material to reflect back into the atmosphere. Rated on a scale from 0 to 1, where 1 is the most reflective.

E (Emissivity)
Emissivity is the ability of the material to absorb energy back into the atmosphere. Rated on a scale from 0 to 1, where 1 is the most emissive.

SRI (Solar Reflective Index)
This is used to determine compliance requirements and is calculated according to values for reflectance and thermal emittance. Rated on a scale from 0 to 100, where 100 is the most reflective.



BUILDING MASSING

MAIN COMPONENTS:

1. **Entrance / Main Axis**
- Library + Admin + Schools Plus
2. **Classroom Wings**
3. **Gymnasium**
4. **Building Core**
- Stage & Music (main floor)
- Mechanical Penthouse (second floor)
5. **Raised Corridor**
- Mechanical service chase

(Renderings for illustration purpose only and may not be reflective of final design)

