

enVision > Connect > Create.

How collaborative design shapes an 'architecture of place'



Jeff Moroz

Architect



Ken Klassen

CEO / Superintendent





Manitoba 

Manitoba
moves
forward

Manitoba's five-year economic plan

Future Home of

Clearspring Middle School

Hanover School Division

DANGER

CONSTRUCTION
AREA

DO NOT ENTER

AUTHORIZED
PERSONNEL ONLY

Context



25 minutes South-East of
Winnipeg



IT'S WORTH THE TRIP!
STEINBACH

STRONG ROOTS, REAL GROWTH.

EXPERIENCE LIFE THE STEINBACH WAY

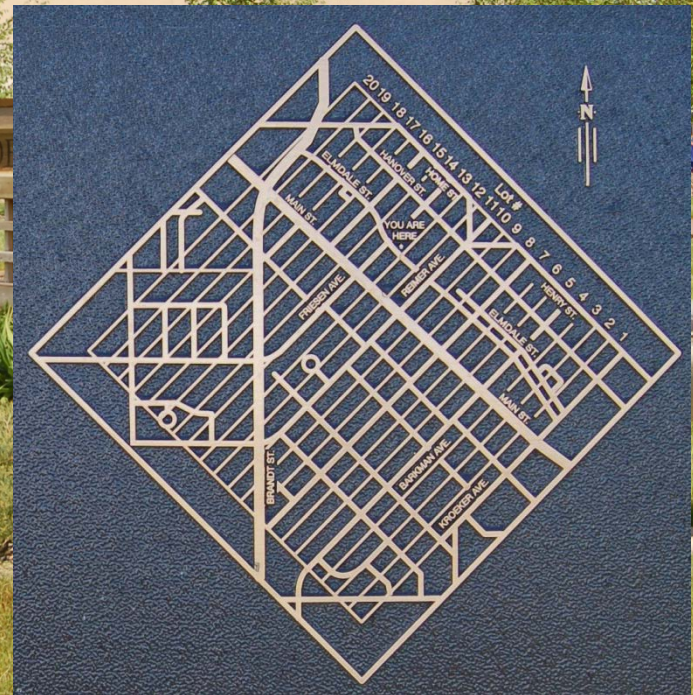


Context



EARLY STEINBACH

In September 1874 eighteen Mennonite families founded the village of Steinbach. Most of the families came from a South Russian (Ukraine) village called Steinbach, meaning Stony Brook. In

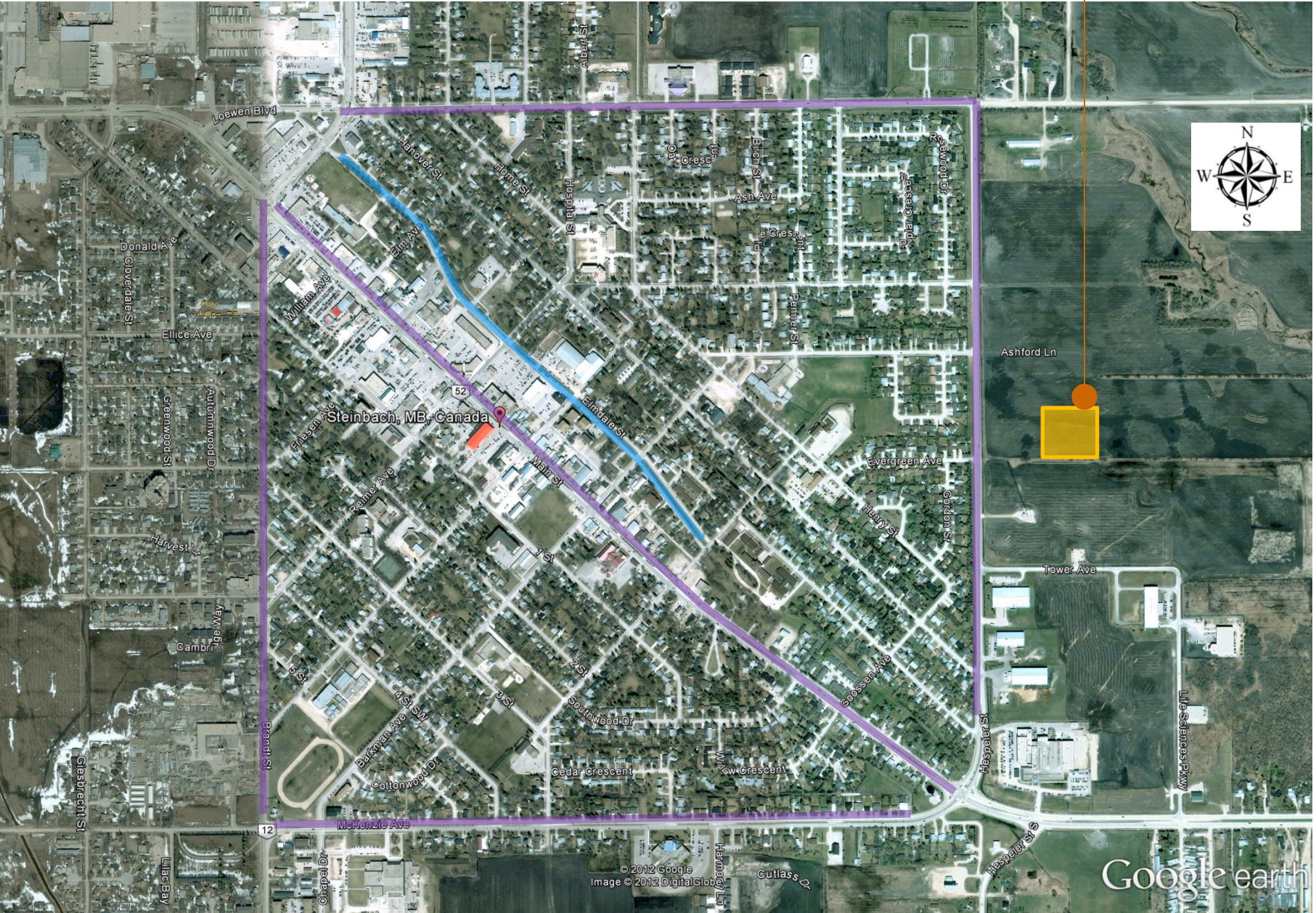


Context location



Context

Site



Context

location

Silt fence surrounds site





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Context

Project Goals

(as listed in the Request for Proposal)

- Livability
- Energy Efficiency
- Sustainability
- Architecture of Place
- Durability

IDP

Ranking Design Principles



THIRTY-THREE EDUCATIONAL DESIGN PRINCIPLES FOR SCHOOLS AND COMMUNITY LEARNING CENTERS - RANKED RESULTS

Jeffery A. Lackney, R.A., Ph.D., Educational Design Institute, Mississippi State University

| NO. | PRINCIPLE | VOTES | | | TOTAL | RANK | REMARKS |
|-----|---|-------|------|--------|-------|------|--|
| | | HSD | PSFB | CONSLT | | | |
| 29 | DESIGN HEALTHY BUILDINGS | 5 | 5 | 7 | 17 | 1 | |
| 28 | Maximize NATURAL & FULL SPECTRUM LIGHTING | 5 | 6 | 5 | 16 | 2 | |
| 3 | Plan Schools as NEIGHBORHOOD-SCALED COMMUNITY LEARNING CENTERS | 4 | 5 | 2 | 11 | 3 | |
| 10 | CLUSTER INSTRUCTIONAL AREAS | 6 | 3 | 2 | 11 | 3 | |
| 2 | Build a Proactive FACILITY MANAGEMENT PROGRAM | 4 | 3 | 3 | 10 | 4 | |
| 27 | Design Places with Respect for SCALE and DEVELOPMENTAL NEED | 3 | 2 | 5 | 10 | 4 | |
| 30 | Design for APPROPRIATE ACOUSTICS | 3 | 5 | 2 | 10 | 4 | |
| 1 | MAXIMIZE COLLABORATION in Planning and Design | 1 | 4 | 4 | 9 | 5 | Clear Project Obj. com. Env. Deter by SD |
| 23 | Weave Together VIRTUAL & PHYSICAL LEARNING SPACES | 2 | 3 | 4 | 9 | 5 | |
| 6 | Respect CONTEXTUAL COMPATABILITY While Providing DESIGN DIVERSITY | 2 | 2 | 3 | 7 | 6 | |
| 9 | Design for SAFE SCHOOLS | 2 | 2 | 3 | 7 | 6 | |
| 12 | Design for a Variety of LEARNING GROUPS AND SPACES | 5 | 0 | 2 | 7 | 6 | |
| 32 | Establish a Variety of OUTDOOR LEARNING ENVIRONMENTS | 0 | 1 | 6 | 7 | 6 | |
| 17 | Regard TEACHERS AS PROFESSIONALS | 3 | 0 | 3 | 6 | - | |
| 7 | Consider HOME AS TEMPLATE FOR SCHOOL | 0 | 1 | 5 | 6 | - | |
| 20 | ESTABLISH A COMMUNITY FORUM | 3 | 0 | 2 | 5 | - | |
| 8 | Meander CIRCULATION while Ensuring SUPERVISION | 1 | 2 | 2 | 5 | - | Width of Corr. Imp. Safety, Way Finding |
| 31 | Allow for TRANSITIONAL SPACES between Indoor and Outdoor Spaces | 0 | 2 | 3 | 5 | - | |
| 33 | SEPARATE Children and Pedestrians from VEHICLES AND SERVICE | 0 | 2 | 3 | 5 | - | |
| 4 | Plan for LEARNING to take place IN THE COMMUNITY | 3 | 1 | 0 | 4 | - | |
| 5 | CREATE SMALLER SCHOOLS | 0 | 3 | 1 | 4 | - | |
| 13 | Keep CLASS SIZES SMALL | 0 | 1 | 3 | 4 | - | |

Top 5 Project Drivers

(as voted in Visioning Session)

1. Design Healthy Buildings
2. Maximize Natural Light
3. Neighbourhood-Scaled Learning Environments
4. Cluster Instructional Spaces
5. Facility Management Program

IDP

RANKING INTERIOR MATERIALS

BLUE = Hanover School Division
GREEN = Public Schools Finance Board
PINK = Consultant Team

CIRCULATION SPACES

DURABILITY

LIFE EXPECTANCY

MAINTENANCE

AESTHETICS

ACOUSTICS

SUSTAINABILITY

INSTRUCTIONAL SPACES

DURABILITY

LIFE EXPECTANCY

MAINTENANCE

AESTHETICS

ACOUSTICS

SUSTAINABILITY

IDP

'Imaging' Exercise

Exploring Architectural Imagery



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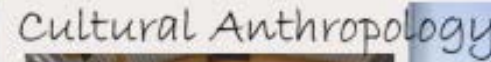
IDP

Exploring the definition of 'place'

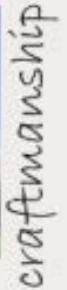


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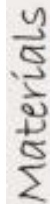
welcoming



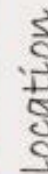
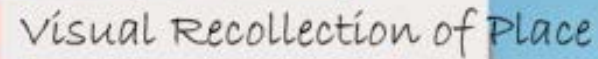
community



Rooted Belonging

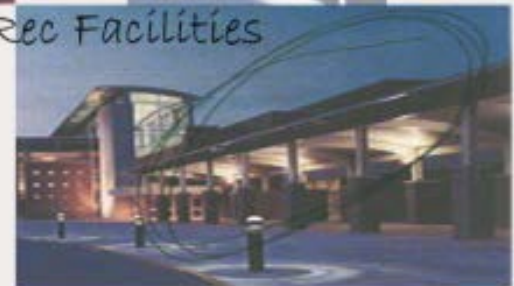


Physical Space



Use of Outdoor Rec Facilities

goals for future



culture



PROJECT DRIVERS WORKSHOP

August 12, 2009



STEWARDSHIP / RESPONSIBILITY

SUSTAINABILITY



LEARNING



COMMUNITY



LIVABILITY



ARCHITECTURE OF PLACE



IDP



Working with 'objects' enables greater participation

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Space Adjacency Activity

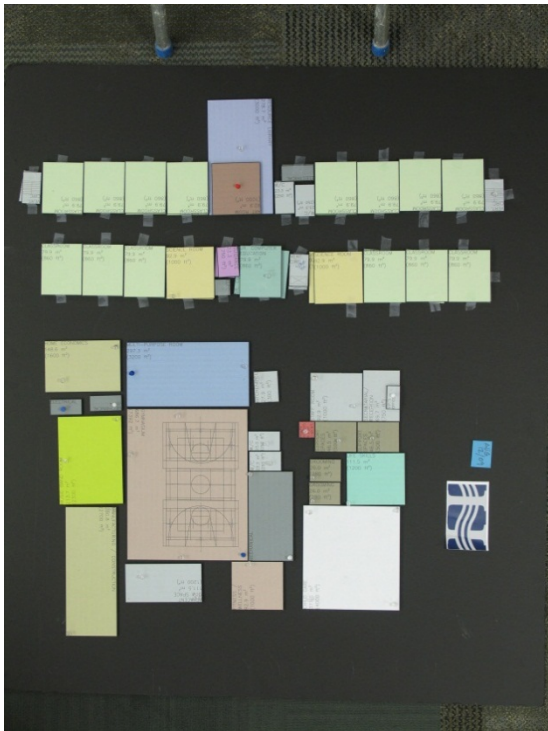
Group #1



Group #2

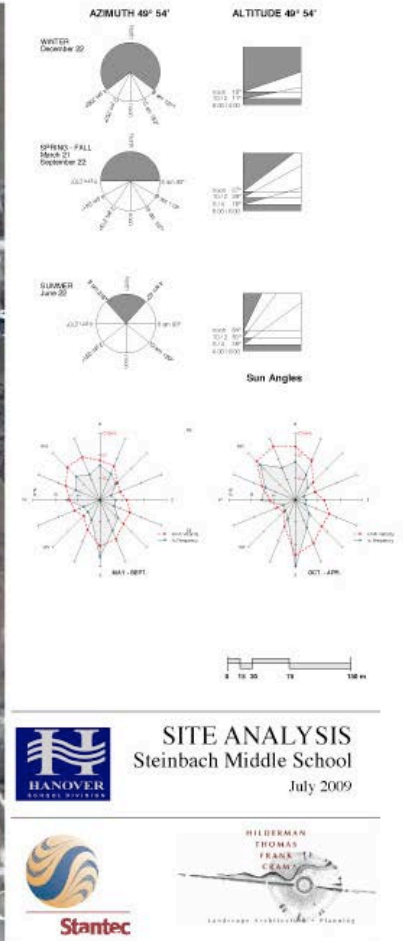
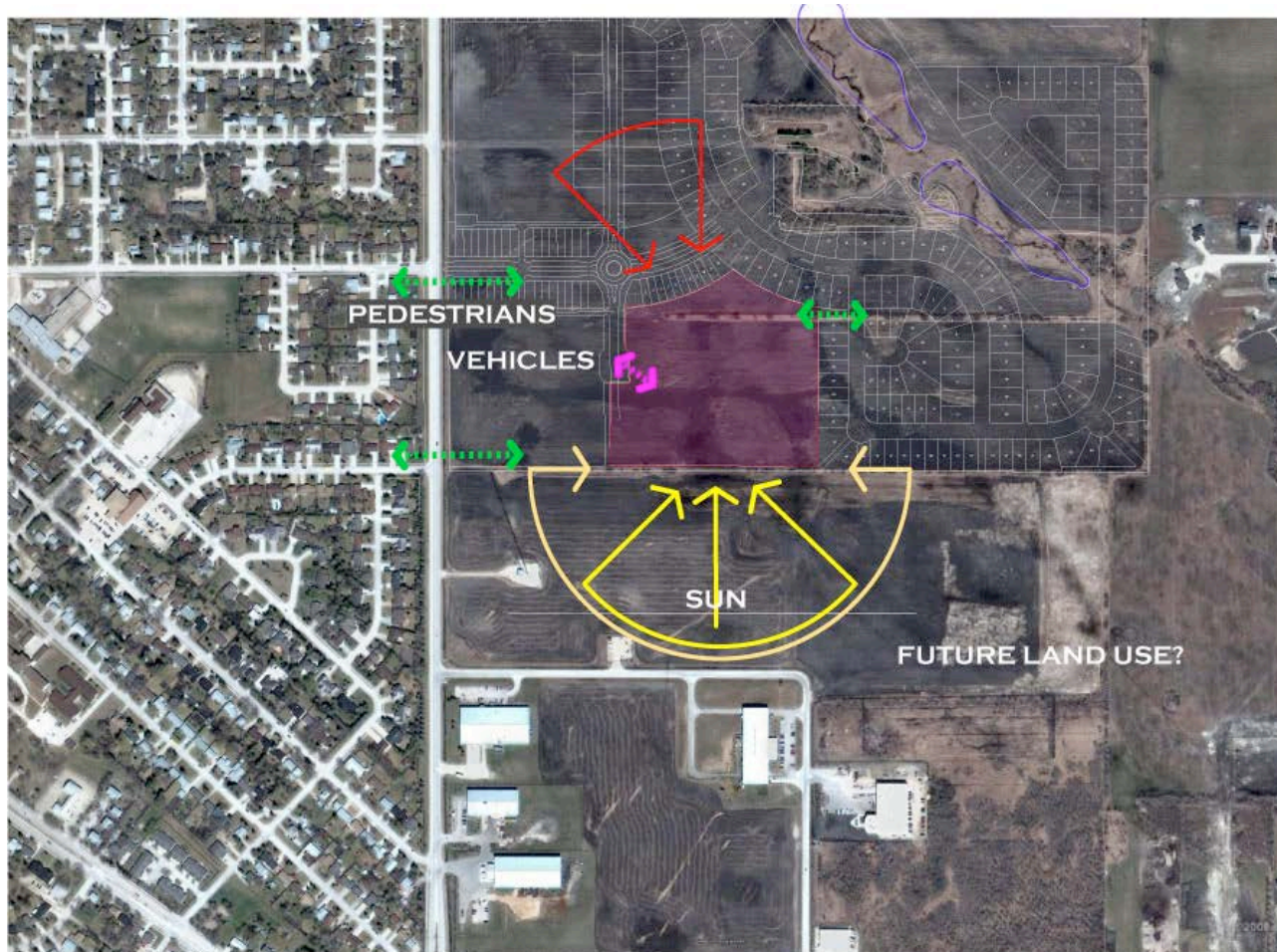


Group #3



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Planning Site



Planning Site

Bioswales & outdoor learning environments

OUTDOOR LEARNING OPPORTUNITIES



COMMUNITY LINKAGES:
Public paths flow through the
school site

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IDP

Student / Teacher Learning Session



My Ideal School would have...

STEINBACH MIDDLE SCHOOL
Students Session : September 24, 2009



My Ideal School would have...

1. LOTS OF WINDOWS (EXTERIOR) NATURAL LIGHT.
2. STUDENT COMPUTERS IN EACH CLASSROOM
3. INVITING / CONTEMPORARY LIBRARY
4. ^{INFORMAL} SEATING AREAS FOR STUDENTS (HALLWAYS, FORER)
5. MIXTURE OF ORGANIC FEEL AND ANGULAR COMPONENTS
6. HALLWAY SCREENS TO DISPLAY ANNOUNCEMENTS / MULTI MEDIA
7. AUDITORIUM / THEATRE CAPABLE
8. USE OF ENVIRONMENTALLY FRIENDLY MATERIALS (CORK FLOOR etc ,
9. GEOTHERMAL HEATING
10. MULTI-USE SPACES FOR SMALL GROUPS AND ENTIRE CLASSES

STEINBACH MIDDLE SCHOOL
Students Session : September 24, 2009



My Ideal School would have...

1. a cafeteria
2. a theatre / stage
3. bigger bakers
4. choir room
5. more picnic tables
6. lap tops
7. cushion seats on desks
8. Student Lounge
9. sink + microwave in every class
10. own tv-dvd player in every class
11. Metals LAB
12. Slurpee Machine

PLANNING THEIR SCHOOL

Student Learning Session



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PLANNING THEIR SCHOOL

The importance of site and solar orientation is explained



Student groups present their designs to the architects



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Schools of the Future

[Home](#)
[Clearspring Middle School](#)
[Steinbach High School](#)
[CMS Website](#)
[Planning](#)
[Construction](#)
[LEED & Learning](#)
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Growing greener...
for a sustainable future.

CLEARSPRING MIDDLE SCHOOL



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Media



21°C

Mostly Cloudy
Feels like 21°C

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Clearspring
Centre
Mon-Fri 9:30am-9pm
Sat 9:30am-6pm

Clearspring Middle School: Chapter 5



Ron Falk and Hanover Superintendent Ken Klassen inspect the site

Welcome to the 5th chapter in the Clearspring Middle School story. A lot of work has been done over the summer as crews took full advantage of the dry weather to get this project off the ground.

Chapter 5: The Walls Go Up...

Construction at Clearspring Middle School in Steinbach is on track thanks in large part to great weather. That from Steinbach Schools Chair and Hanover Trustee Ron Falk. "We've been so fortunate that we haven't really experienced severe cold weather. People who have driven past the school have seen the hoarding which means the outside brickwork is happening. On the east side of the building a lot of the face brick has been completed and they are working on the courtyard now."



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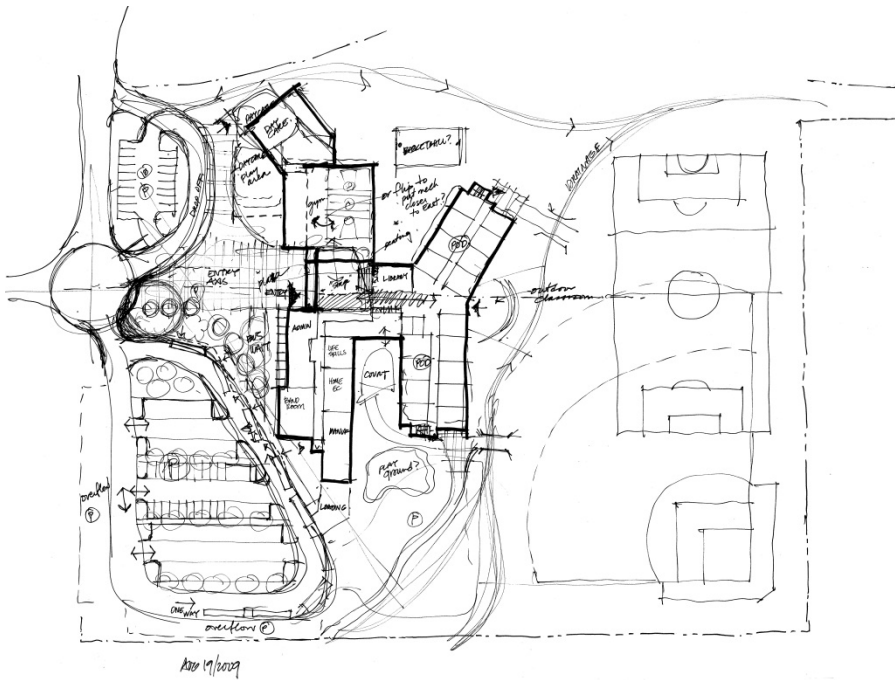
Steinbach Online's Chris Teetaert documented much of the process

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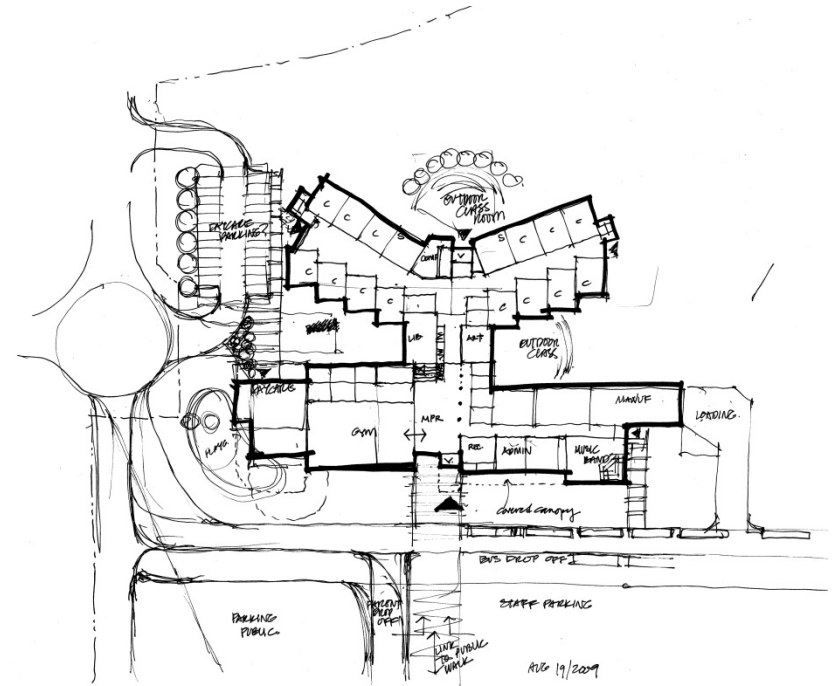


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Planning Site



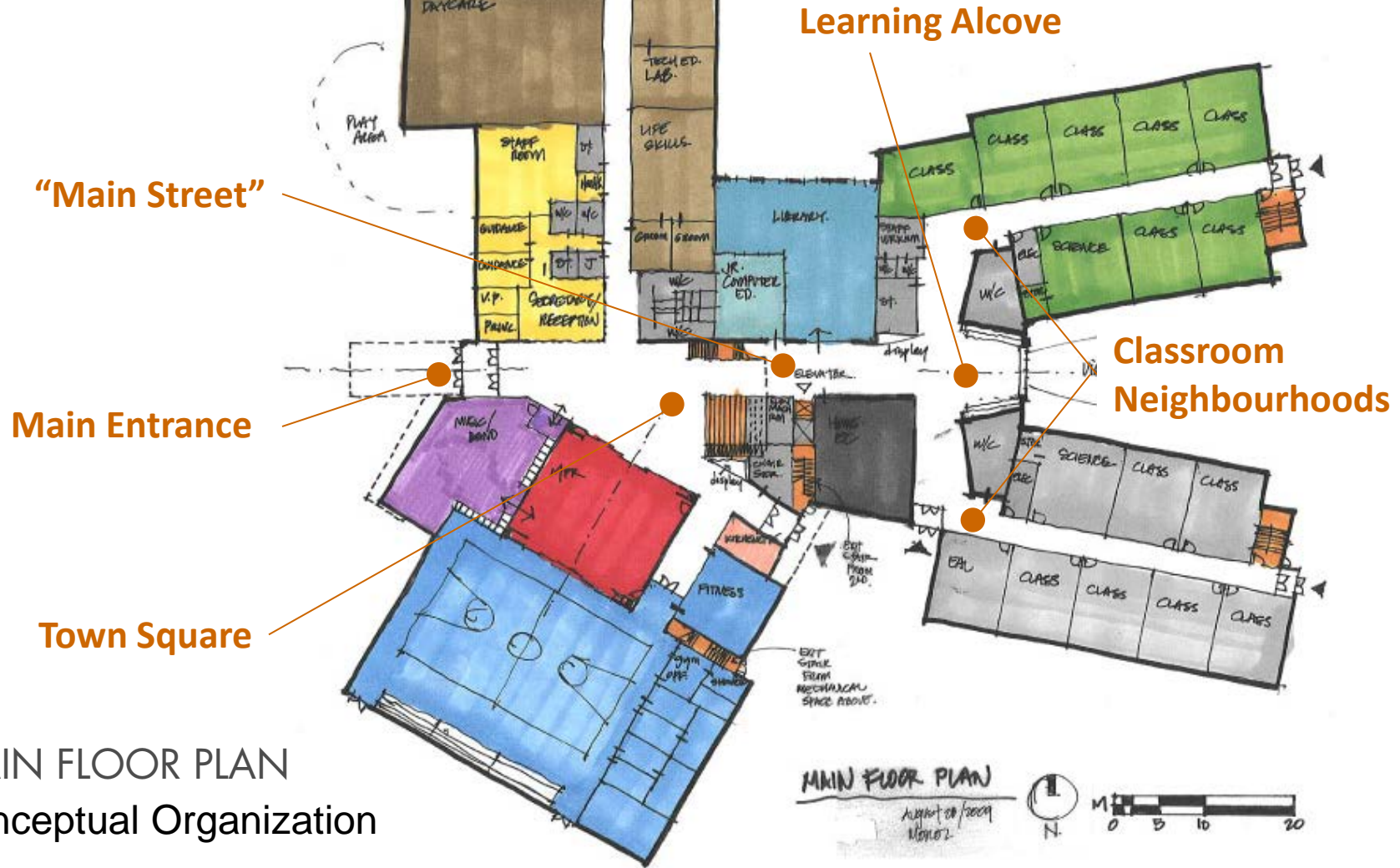
Option1: West Facing



Option 2: South Facing

Schematic Plan

Floor Plan



MAIN FLOOR PLAN

Conceptual Organization



School as "VILLAGE"

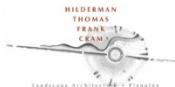
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Stantec

Schematic Plan

Site Plan

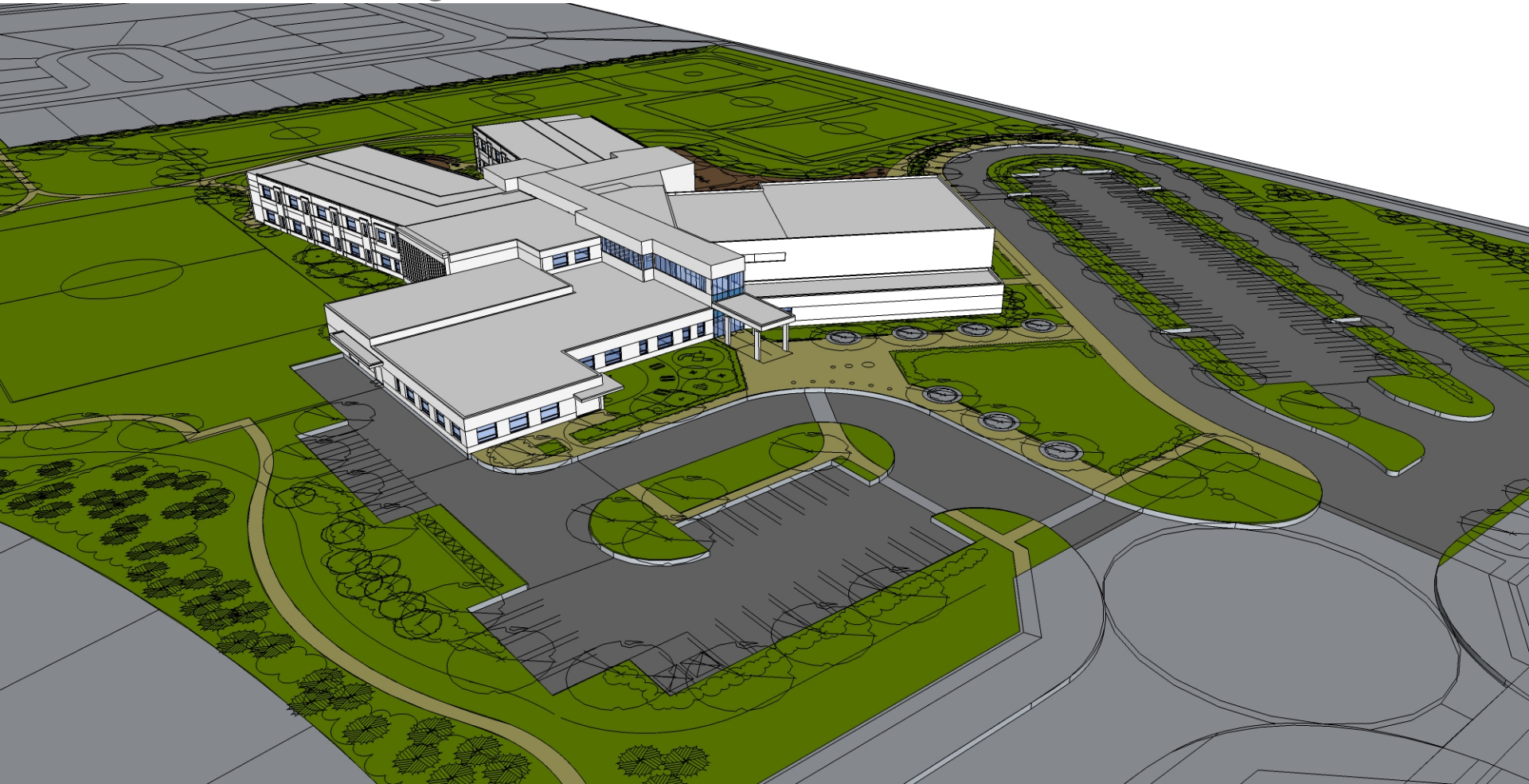


L-1 Site Development Concept Plan IDP5
Steinbach Middle School
 November 24, 2009

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Concept

Schematic Massing



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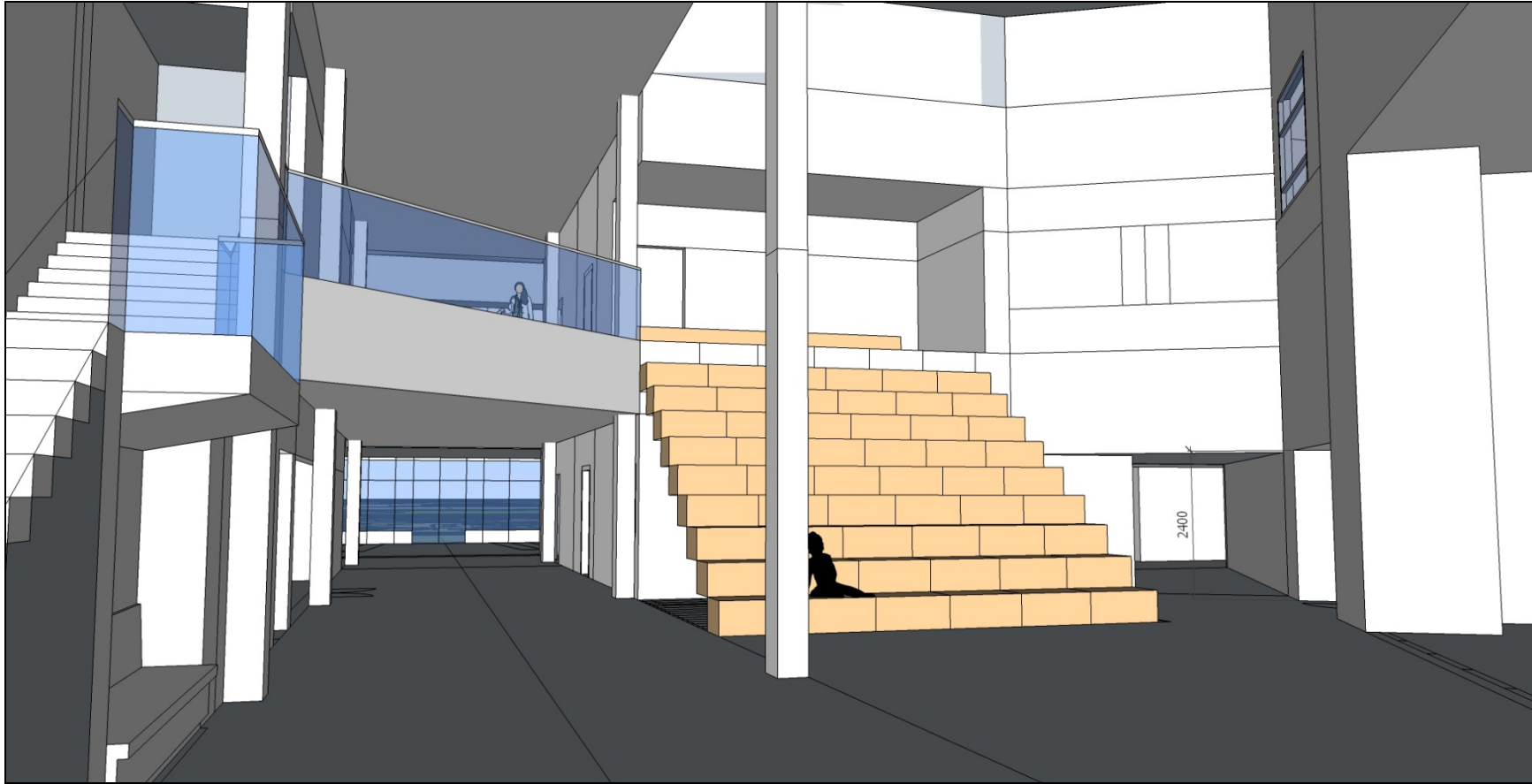
The image shows the exterior of a modern middle school building. The main wall is constructed from light-colored rectangular stone blocks, with a decorative horizontal band of rough-hewn, tan-colored stones. Large, three-dimensional, dark grey letters spell out 'CLEARSPRING' in a bold, sans-serif font. Below this, the words 'MIDDLE' and 'SCHOOL' are also in three-dimensional letters, with 'MIDDLE' positioned to the left of 'SCHOOL'. To the left of the main wall, there is a covered entrance area supported by a concrete pillar and a column. The entrance has glass doors and windows. A concrete walkway leads from the foreground towards the entrance. A grassy area is visible between the walkway and the building. In the background, a tall concrete pillar stands against a clear blue sky. The overall scene is bright and clear, suggesting a sunny day.

CLEARSPRING

MIDDLE SCHOOL

Concept

View of Plaza

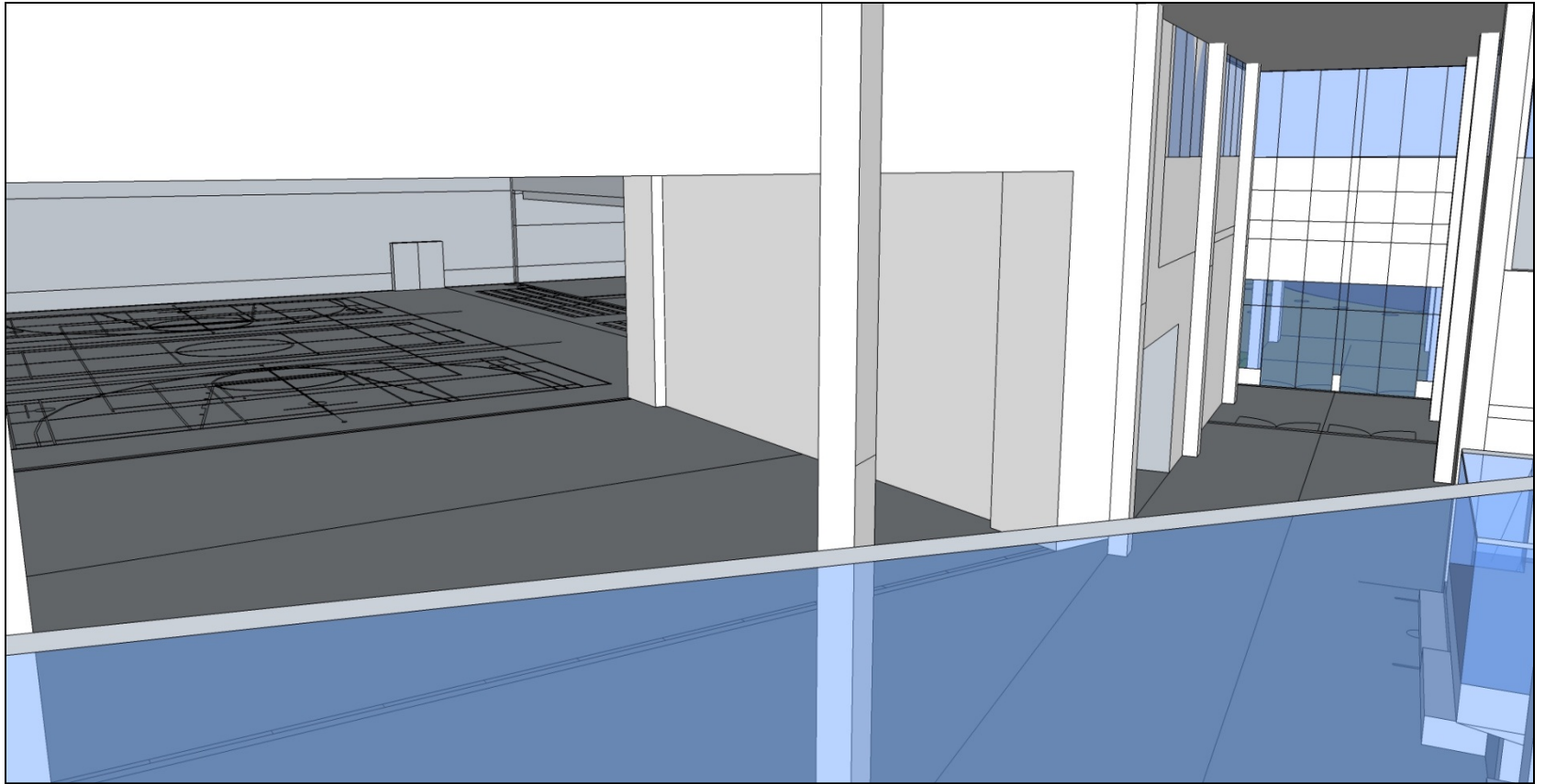




'Town Square' & Grandstand

Concept

View to MPR / front entry





'Town Square' & Entrance

Identity

Classroom Neighbourhoods



- Gr. 5: PIONEERS
- Gr. 6: ADVENTURERS
- Gr. 7: DIFFERENCE-MAKERS
- Gr. 8: LEADERS





'Pioneers' Neighbourhood



'Adventurers' Neighbourhood



The Bus Stop



Future Outdoor Learning Environment



CLEARSPRING
MIDDLE SCHOOL

Daycare Play Area

School as Learning Tool

Exposing Infrastructure



Geothermal heat
pumps and manifold

School as Learning Tool

Exposing Infrastructure



Building Envelope

School as Learning Tool

Sense of Place



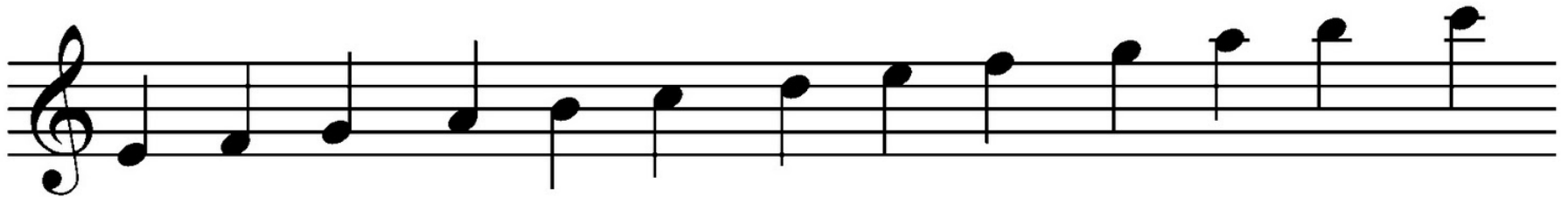
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Where am I?



School as Learning Tool

Expressing function



School as Learning Tool

Exposing Infrastructure



Building Systems



ARCHITECT'S QUESTIONS:

1. Did the process and product **respond** to the Vision of the Project?
2. Do the owners, stakeholders, and users feel as though they **own** part of the process, decisions and outcomes?
3. Does the design **reflect the uniqueness** of its setting, context, culture and time?

Measuring Success.



OWNER'S QUESTIONS:

1. Is the new school a **wonderful place** to live and learn for both students and staff?
2. Is both the new building and school site a **reflection** of and a **contribution** to the community within which it resides?
3. Is the school a **model** of sustainability and social responsibility in structure, operation and program?

Measuring Success.



CLEARSPRING
MIDDLE SCHOOL

Leading the way to a sustainable future – blazing trails in education.

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Measuring Success.



Measuring Success.



Measuring Success.



Measuring Success.



Measuring Success.



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Measuring Success.



Questions?