



# Council Meeting Cambridge Recreation Complex and Library

Sept 26, 2023

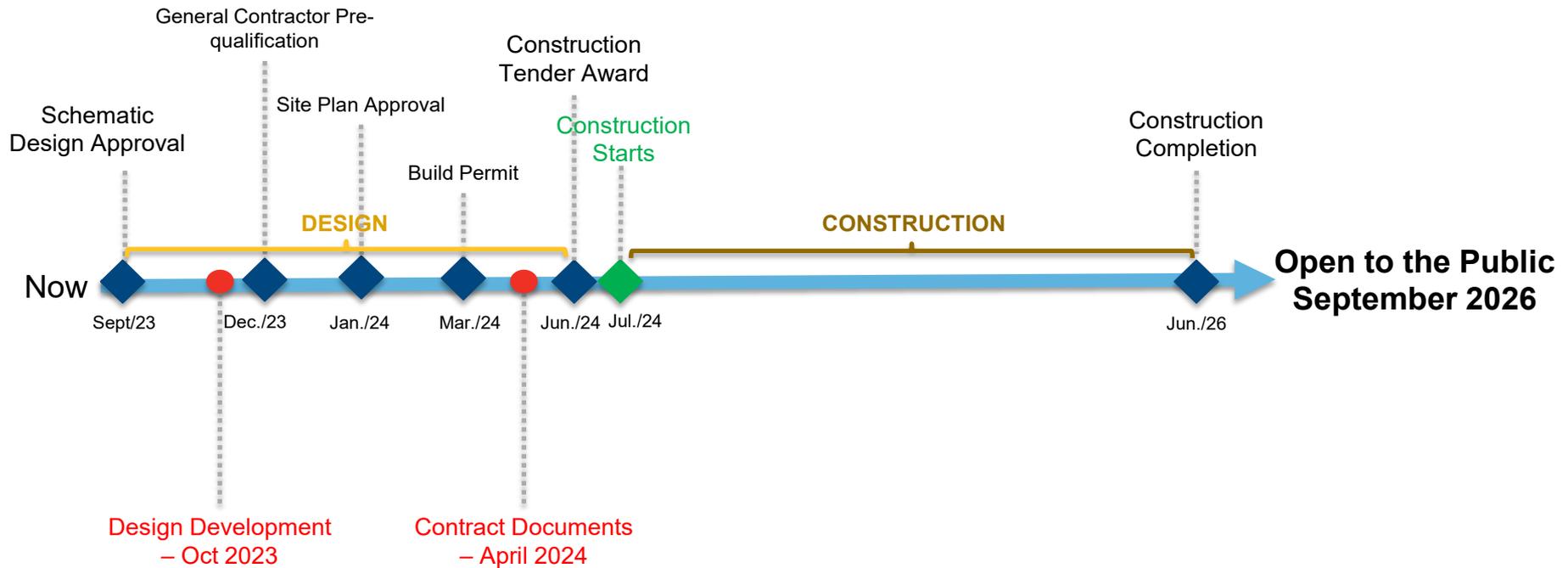
# Schematic Design Approval

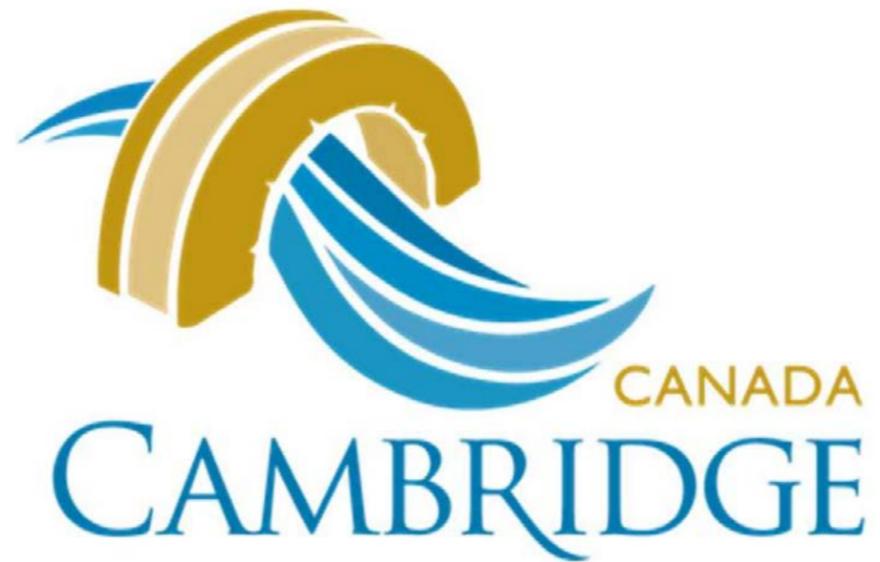
	Square Footage	Construction	Soft Costs	Furniture, Fixtures and Equipment	Contingencies	Total Project Cost
<b>Concept Design – Class D</b>	111,248	\$91,100,000	\$7,537,380	\$3,454,800	\$5,843,200	\$107,935,380
<b>Schematic Design – Class C</b>	110,011	\$90,823,812	\$7,537,380	\$3,454,800	\$6,119,388	\$107,935,380

## What is next? – Design Development

- **Pre-consultation with building department**
- **Room Data Sheets**
- **Public Information Communications – Tentative October**
- **Design Development and Class B Costing**
- **SPA First Submission – mid-October**
- **Accessibility coordination ongoing**
- **GICB funding application review ongoing**
- **Finalize site plan integration with School Board Design including multi-use trail**
- **Ongoing discussions with Waterloo Region on East Boundary Rd.**

# Project Schedule - Look Ahead





**CAMBRIDGE RECREATION COMPLEX AND LIBRARY**

**2023-09-26**

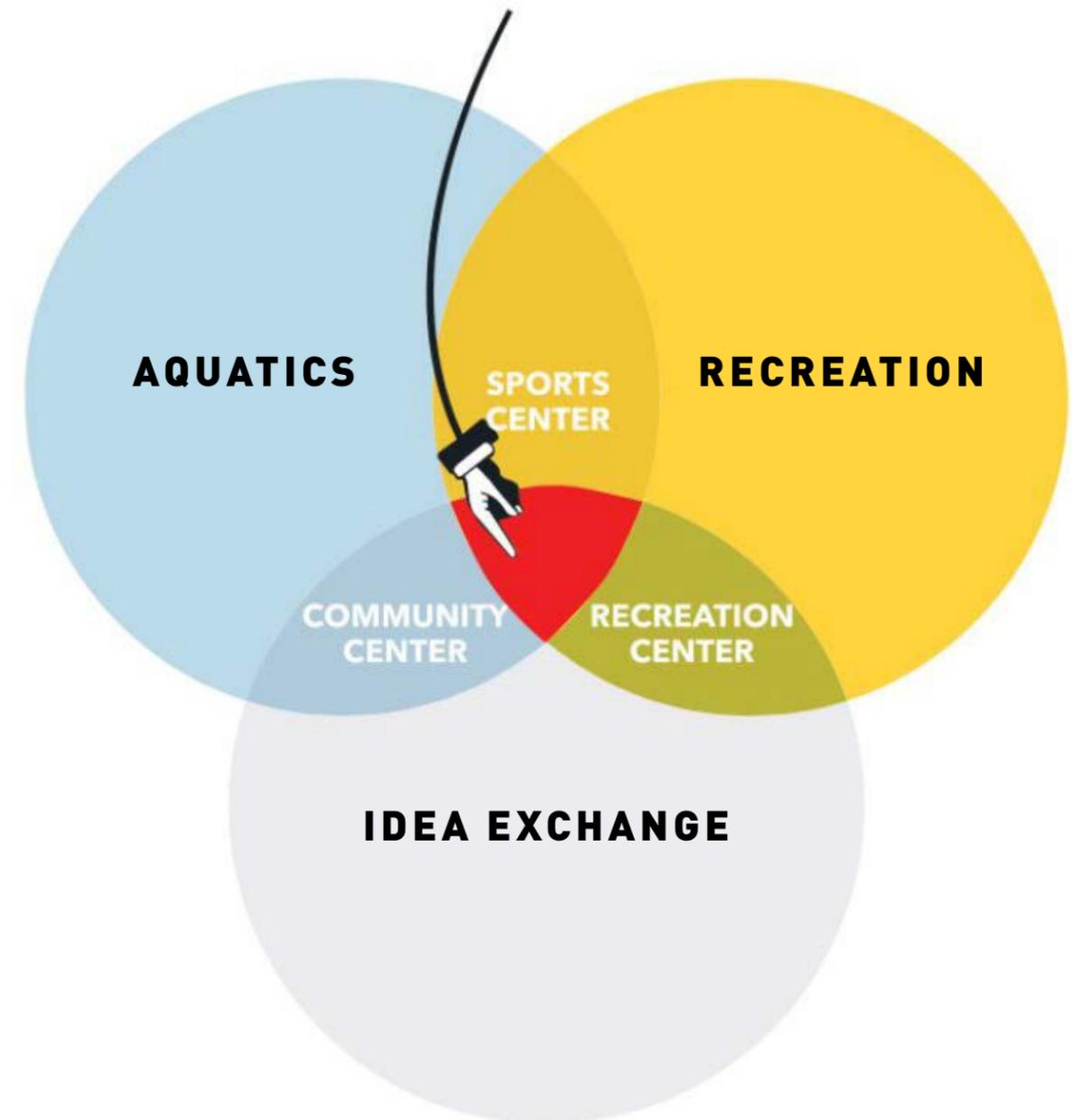
**MJMA**  
ARCHITECTURE & DESIGN

# GUIDING PRINCIPLES

# GUIDING PRINCIPLES

- **CREATE A VIBRANT, INVITING AND MULTI-GENERATIONAL COMMUNITY HUB**
- **LEVERAGE SHARING OPPORTUNITIES**
- **PROGRAM PROMINENCE AND IDENTITY**
- **ANIMATE STREETScape AND CREATE DISTINCT IDENTIFY FOR EACH PARTNER**
- **PROVIDE A SAFE AND SECURE DESIGN**
- **FACILITATE FLEXIBILITY**
- **MAXIMIZE GREEN SPACE**
- **ENCOURAGE ACTIVE TRANSPORTATION**
- **INCORPORATE SUSTAINABLE DESIGN**

## DYNAMIC SOCIAL HEART



# SUSTAINABILITY - CURRENT TARGET

## ON TRACK FOR LEED GOLD

footprint

### WESLEY BLVD

LEED® BD+C v4 New Construction and Major Renovation Detailed Scorecard

22596-001

August 1, 2023



## PLUS

- ELECTRIFIED BUILDING
- UPGRADED HIGH-PERFORMANCE WINDOW AND WALL SYSTEM
- UPGRADED BUILDING ENVELOPE DETAILS
- SOLAR PANEL READY

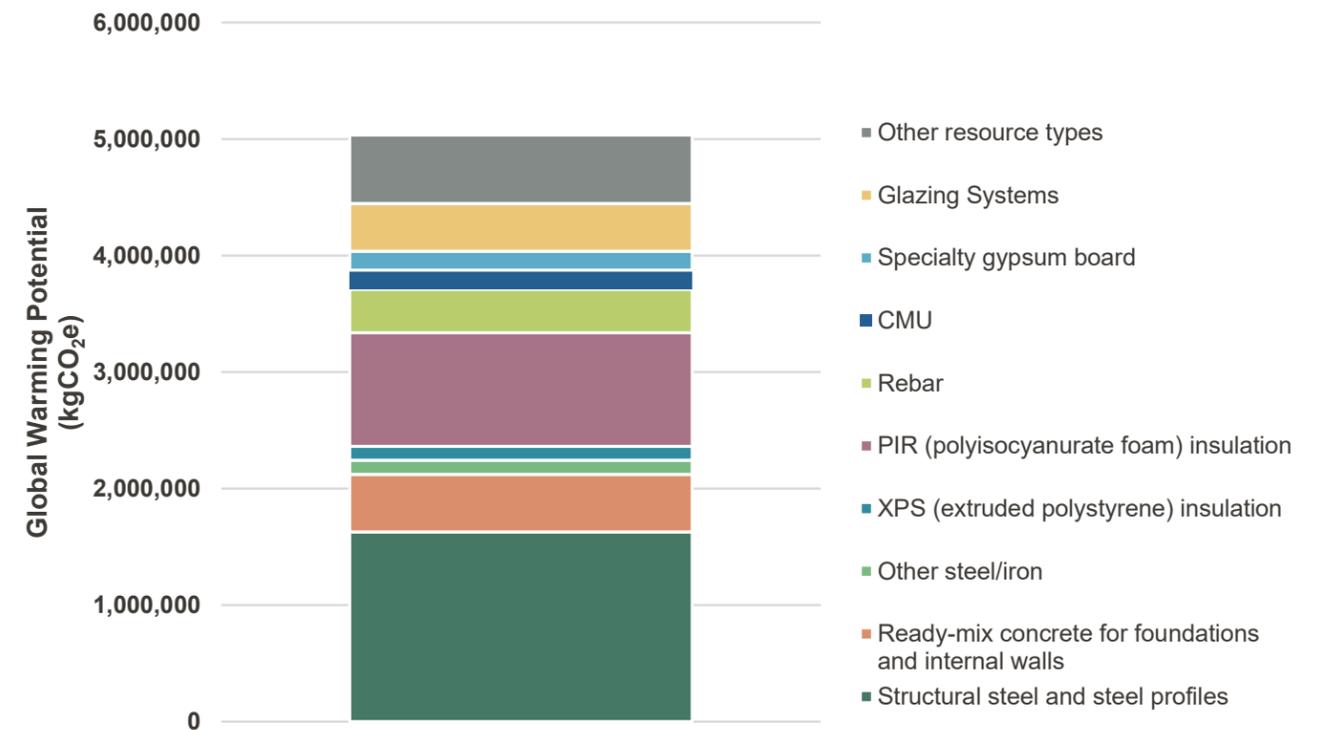
# SUSTAINABILITY - FUTURE TARGET

## NET ZERO CARBON



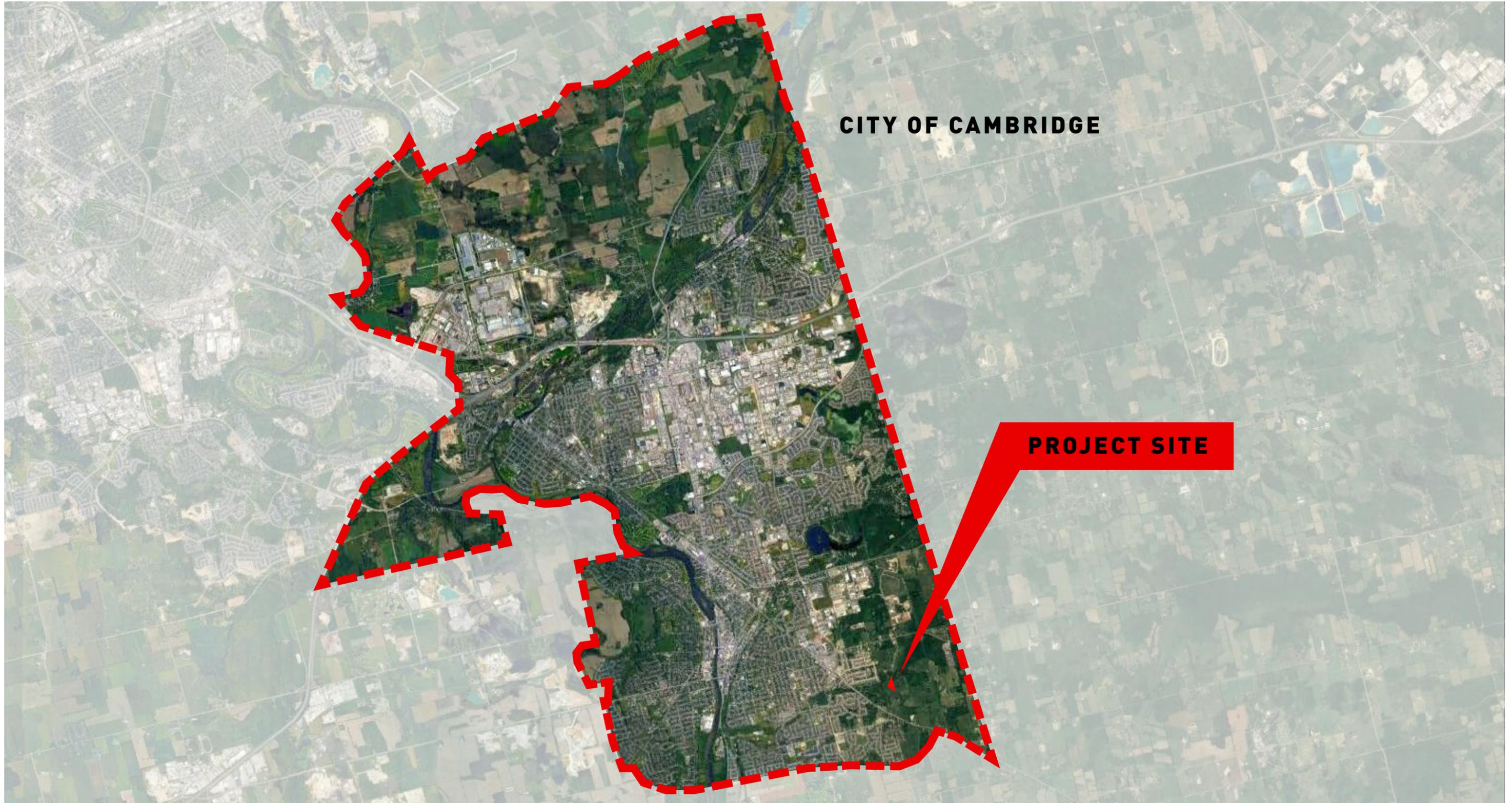
**ZERO CARBON  
BUILDING STANDARD**  
Canada Green Building Council®

FIGURE 4: GLOBAL WARMING POTENTIAL BY MATERIAL



# **SITE AND CONTEXT**

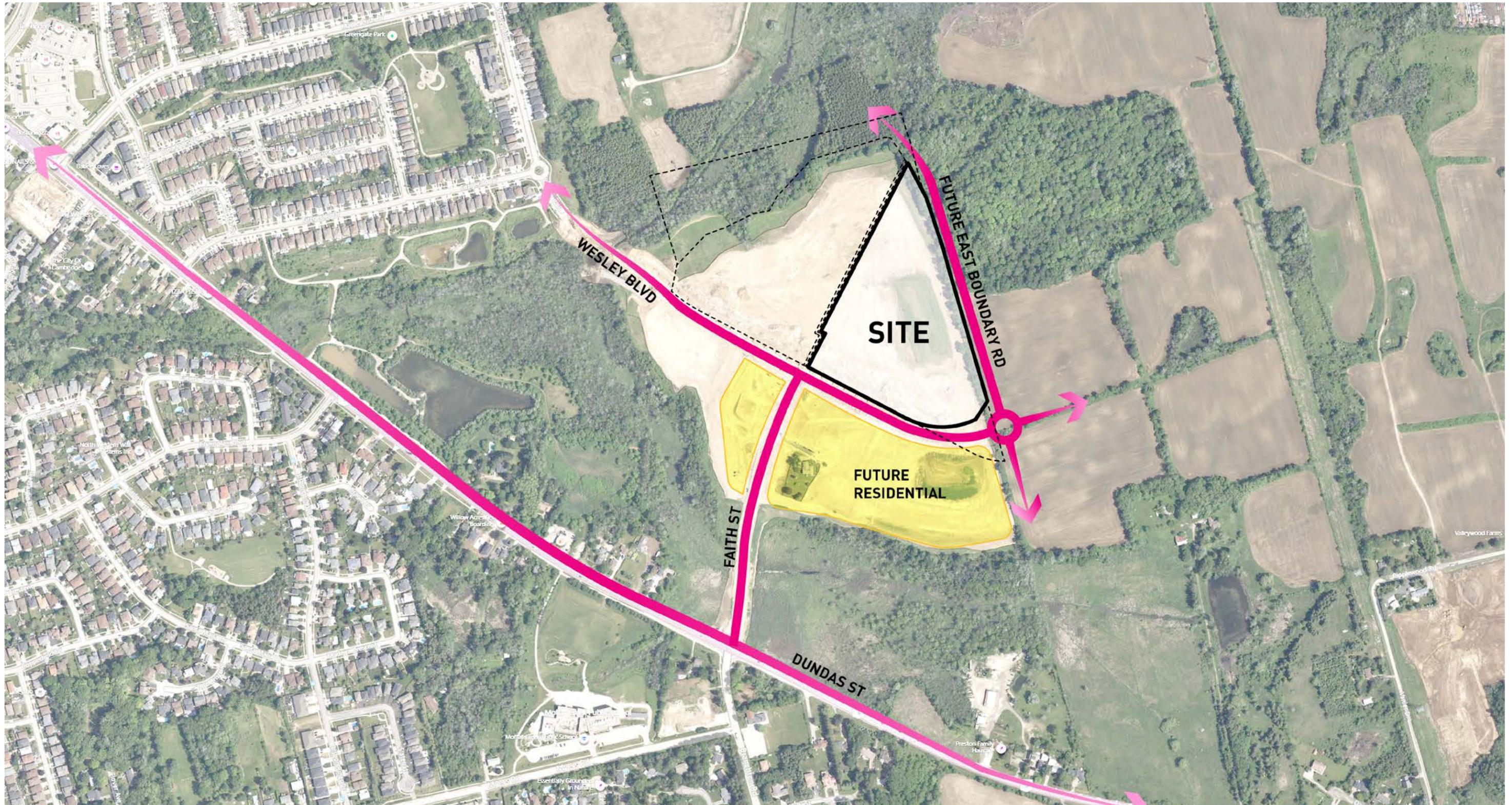
# SITE



**CITY OF CAMBRIDGE**

**PROJECT SITE**

# SITE



# COMMENTS FROM COUNCIL

# **COMMENTS FROM COUNCIL**

## **MARCH 30th, 2023 WORKSHOP**

1. Request for cafe or concessions for food
2. Dedicated area for breastfeeding to take place that is separate from washrooms or changerooms
3. Provisions for on-site security space at the main desk
4. Dedicated washroom facilities in the library
5. Exercise equipment in the fitness area
6. Wider lanes on the running track that allow for passing
7. Explore the comfort level with universal changerooms in Cambridge
8. Request for adult change tables in changerooms
9. Consult with Inclusive, Equity and Accessibility Team in Cambridge
10. Request for consultation with Accessibility Advisory Committee
11. Request for consultation with multi-cultural groups on universal vs. standard washrooms

# **SITE PLAN RECAP**

# OVERALL SITEPLAN / MUP \* CRCL

- 1** Parking lot (382 spots)
- 2** Parking entrance plaza
- 3** Reading garden
- 4** Covered porch
- 5** Central green + water feature
- 6** Trail head
- 7** Wild play + fitness park
- 8** Playground entrance
- 9** Picnic grove
- 10** Maintenance area
- 11** Pickleball courts (4)
- 12** Basketball court
- 13** Adventure trail
- 14** Multi-use trail
- 15** Trail head
- 16** Trail head



# COMMENT FROM COUNCIL

“Request for café or concessions for food”

- 1 Parking lot (382 spots)
- 2 Parking entrance plaza
- 3 Reading garden
- 4 Covered porch
- 5 Central green + water feature
- 6 Trail head
- 7 Wild play + fitness park
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Area provided for food truck events

# PUBLIC ART - POTENTIAL LOCATIONS



"stumble upon" art



sports court mural



view from pool



"playful" art

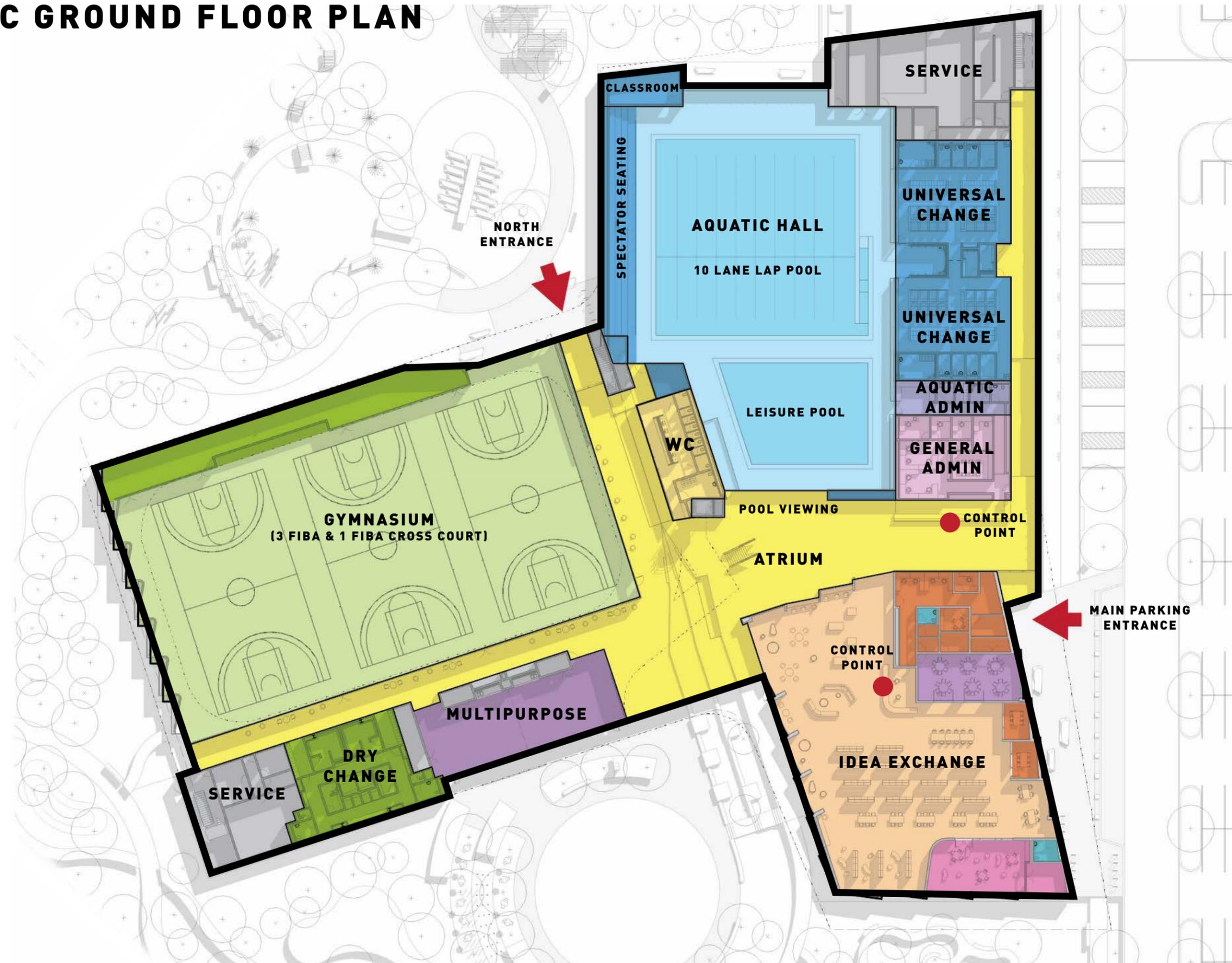


intimate sculpture

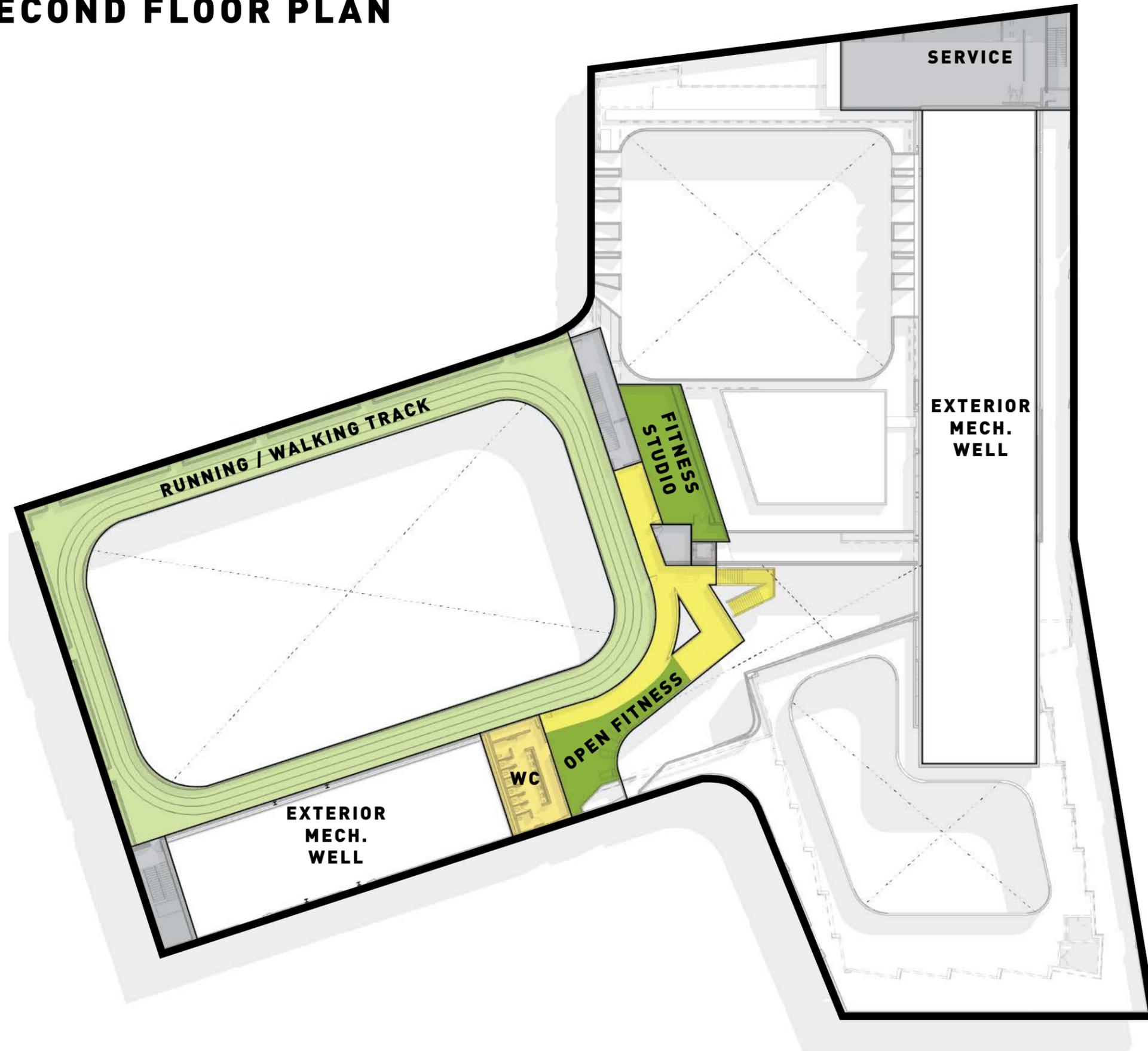


# **SCHEMATIC PLANS OVERVIEW**

# SCHEMATIC GROUND FLOOR PLAN

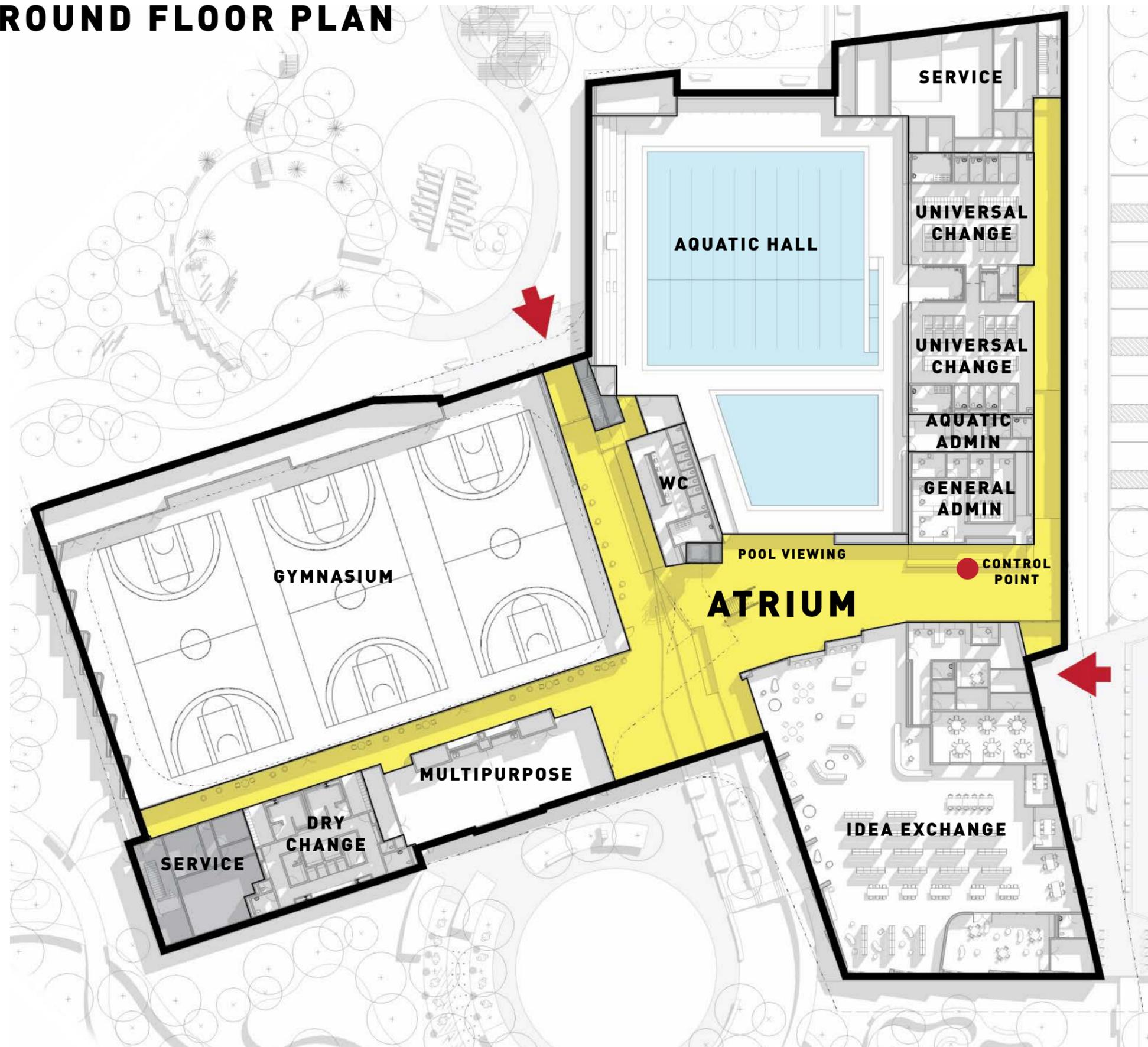


# SCHEMATIC SECOND FLOOR PLAN

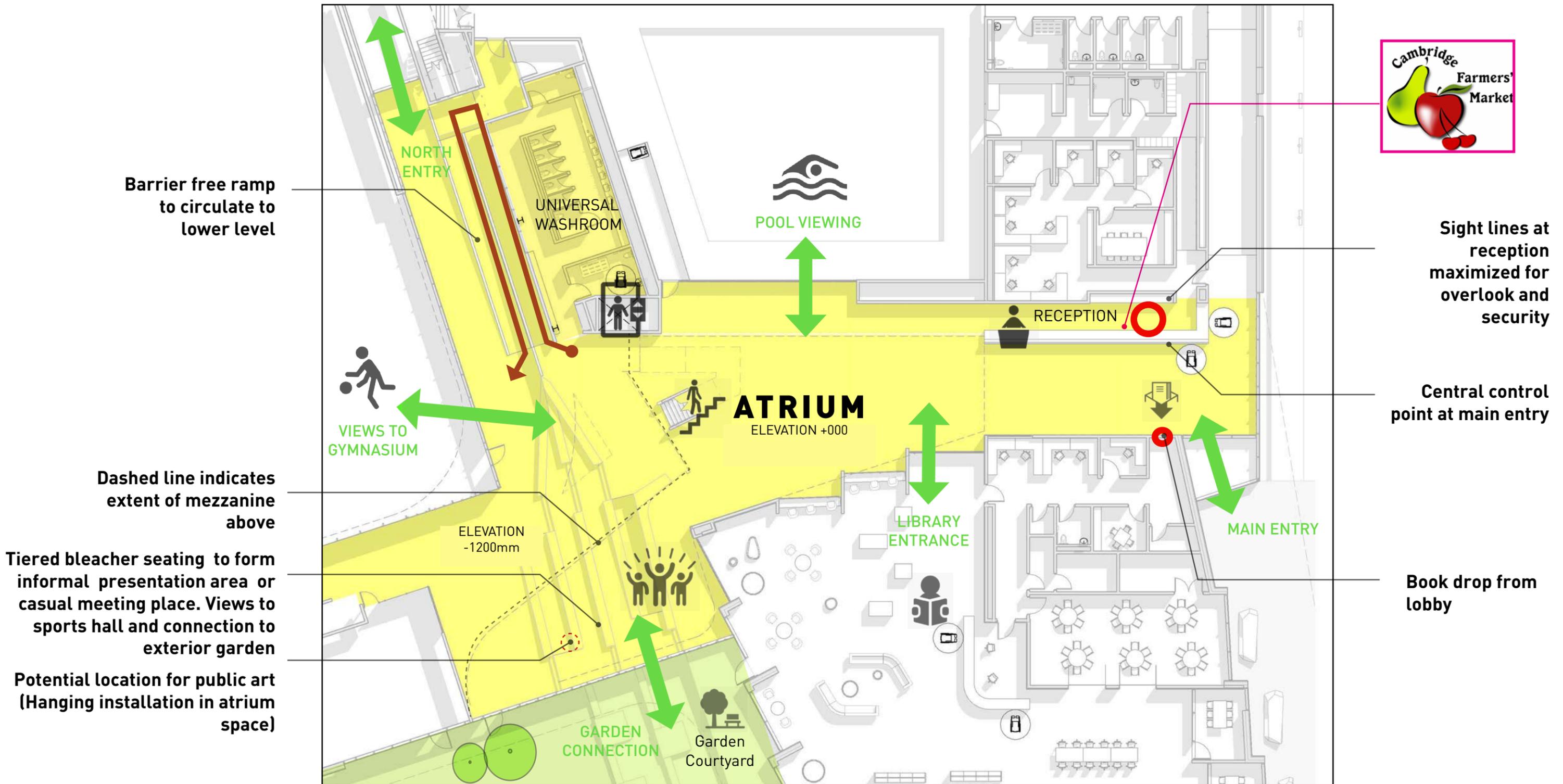


# **SCHEMATIC DESIGN - ATRIUM**

# SCHEMATIC GROUND FLOOR PLAN



# ATRIUM SCHEMATIC DESIGN



# ATRIUM OVERVIEW





# ATRIUM VIEW FROM RECEPTION

Cambridge Recreation Complex and Library





# ATRIUM

## TIERED SEATING AT LOWER ATRIUM

Cambridge Recreation Complex and Library





# ATRIUM

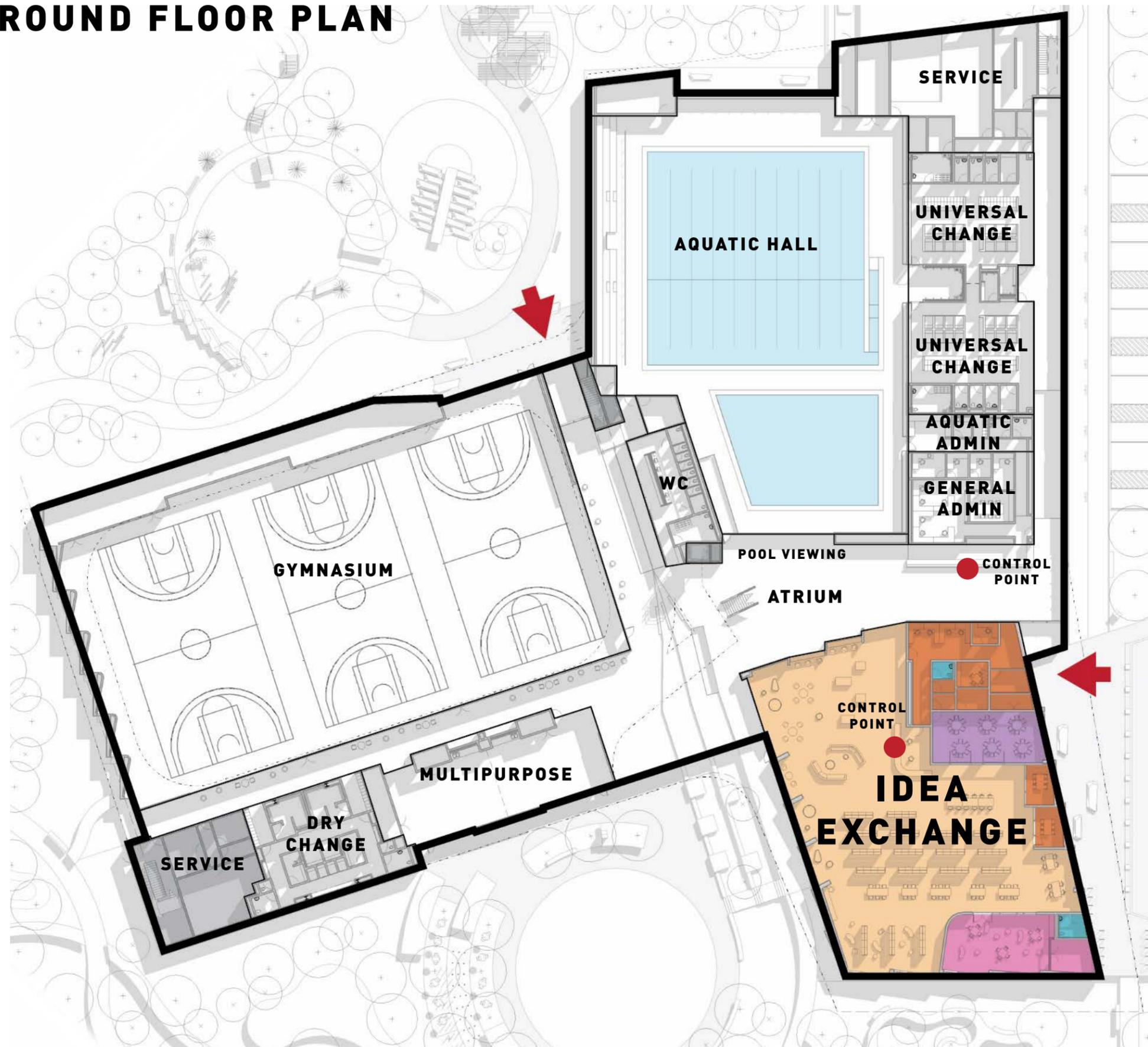
## TIERED SEATING AT LOWER ATRIUM

Cambridge Recreation Complex and Library



# **SCHEMATIC DESIGN - IDEA EXCHANGE**

# SCHEMATIC GROUND FLOOR PLAN



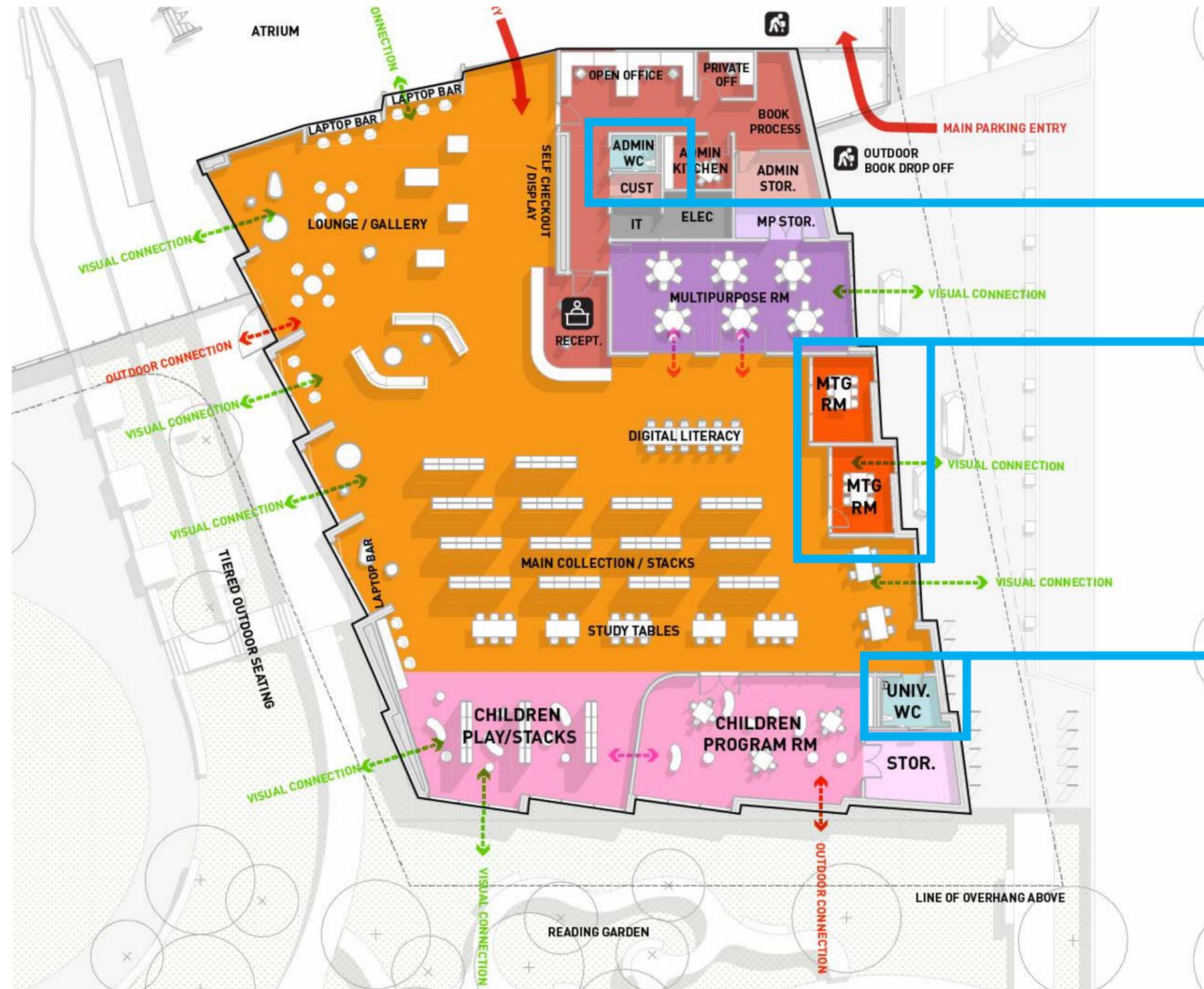
# IDEA EXCHANGE UPDATED PLAN



# COMMENTS FROM COUNCIL

“Dedicated area for breastfeeding to take place that is separate from washrooms or changerooms”

“Dedicated washroom facilities in the library”



Dedicated library staff WC

Multipurpose space and meeting rooms designed for greatest flexibility to meet community need (small meetings, quiet study, breastfeeding, etc)

Public library WC



# IDEA EXCHANGE LOOKING TOWARDS ATRIUM

Cambridge Recreation Complex and Library





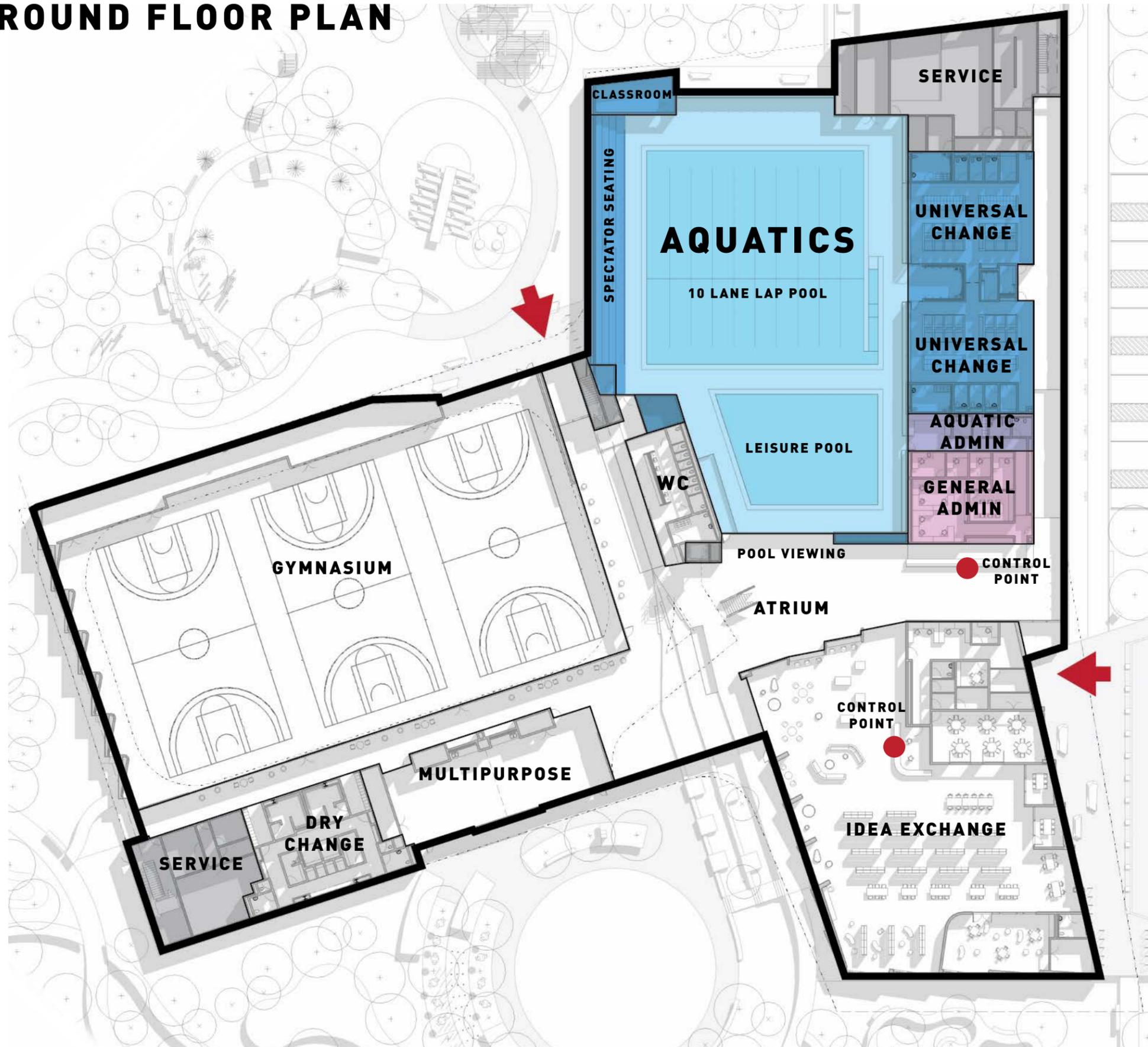
# IDEA EXCHANGE OPEN AREA - STACKS

Cambridge Recreation Complex and Library



# **SCHEMATIC DESIGN - AQUATICS**

# SCHEMATIC GROUND FLOOR PLAN

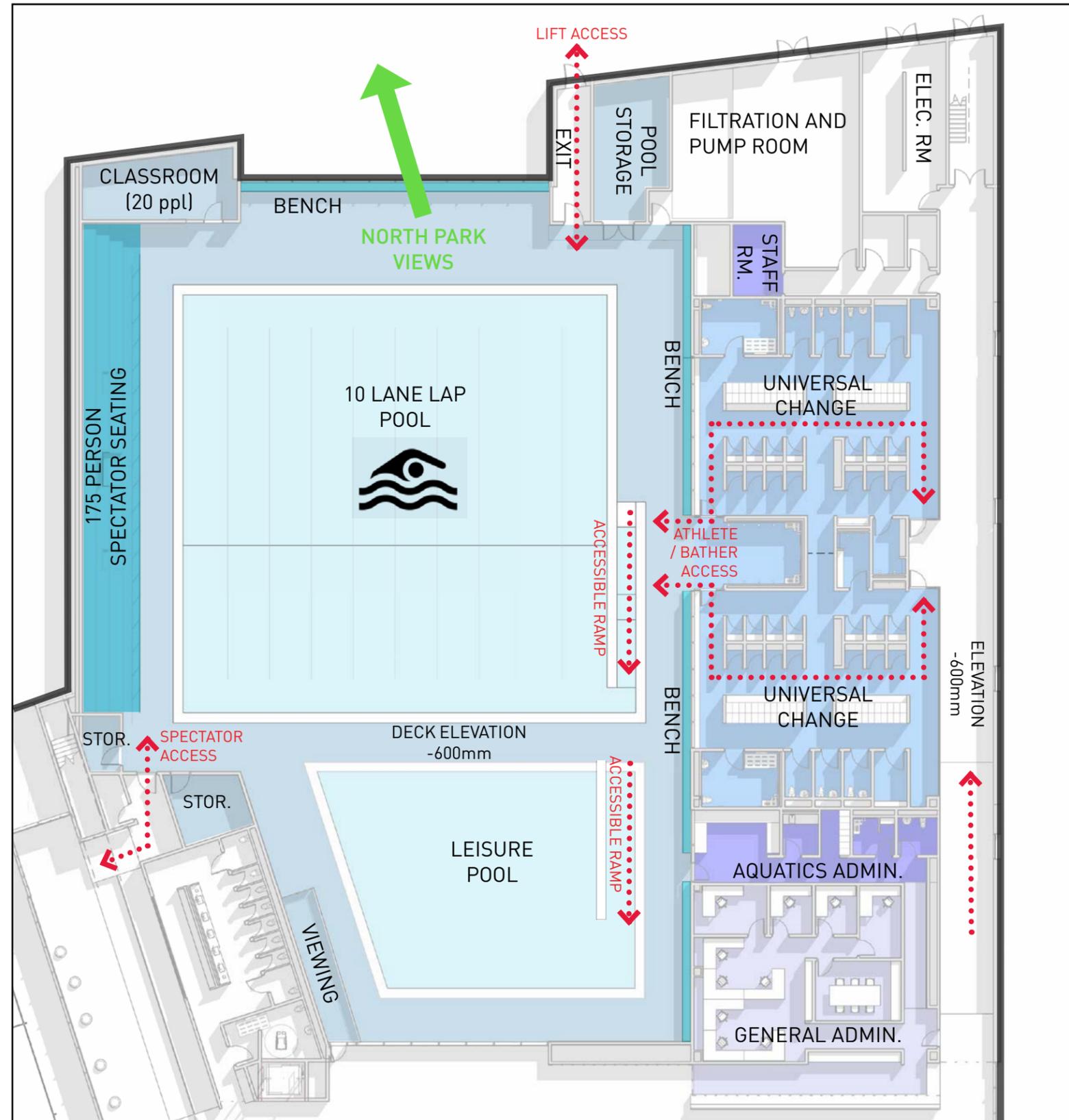


# POOL HALL FLOOR PLAN

ON-DECK BENCH SEATING: 120 PERSONS

SPECTATOR SEATING: 175 PERSONS

**TOTAL SEATING: 295 PERSONS**





# How MJMA Designed the UBC Aquatic Centre's Universal Change Rooms

In developing universal change rooms at the UBC Aquatic Centre, Toronto architecture firm MJMA tackles the issues of privacy, safety and accessibility through design.

WORDS David Dick-Agnew

PHOTOS Ema Peter

POSTED Apr 10, 2018

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A long bank of sinks with touch-free faucets marks the transition from the universal change room to the pool deck beyond.

**In developing universal change rooms at the UBC Aquatic Centre, Toronto architecture firm MJMA tackles the issues of privacy, safety and accessibility through design.**

# UNIVERSAL CHANGEROOMS PRECEDENTS



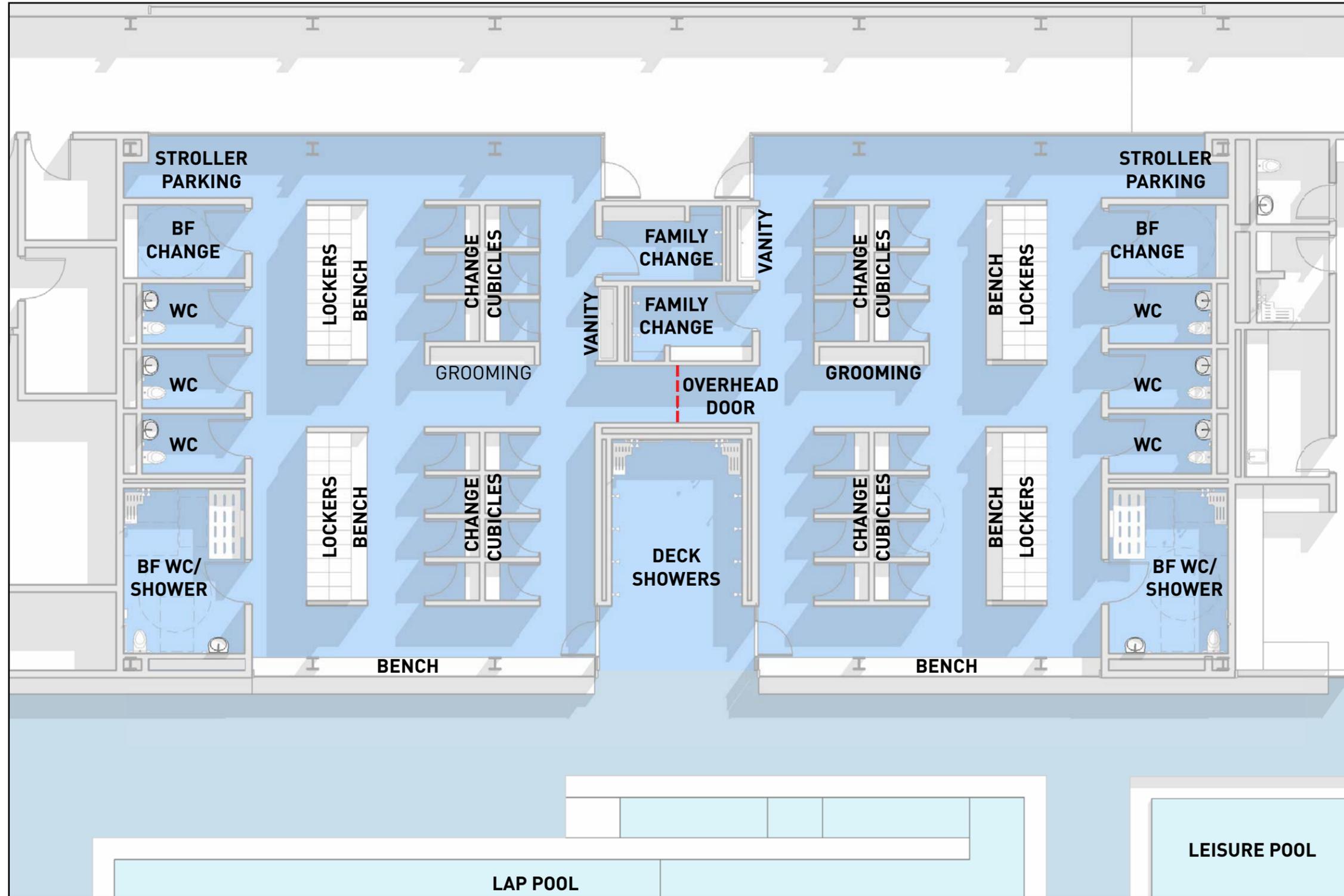
UBC Aquatic Centre



Pam McConnell Aquatic Centre

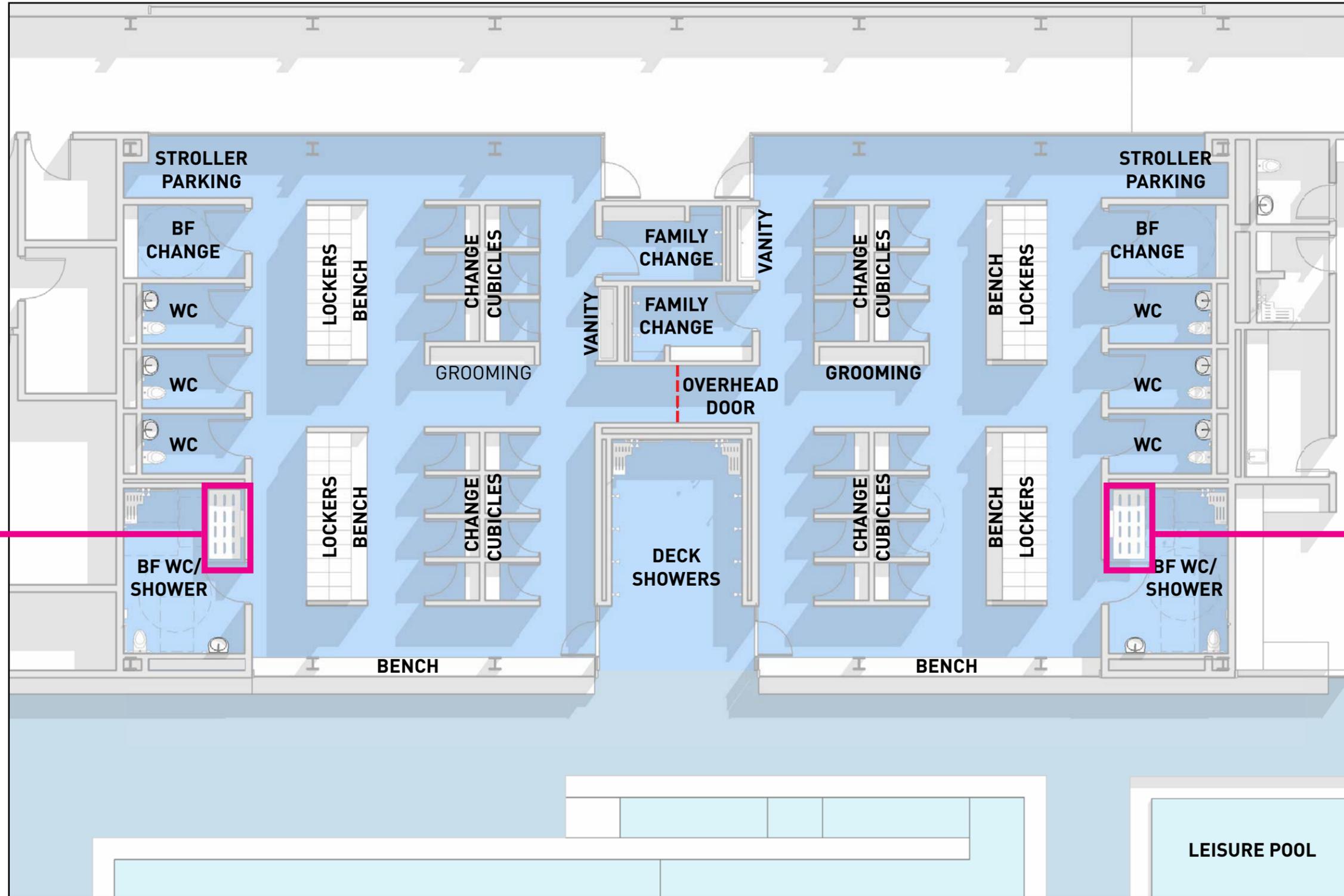


# POOL UNIVERSAL CHANGE ROOMS



# COMMENT FROM COUNCIL

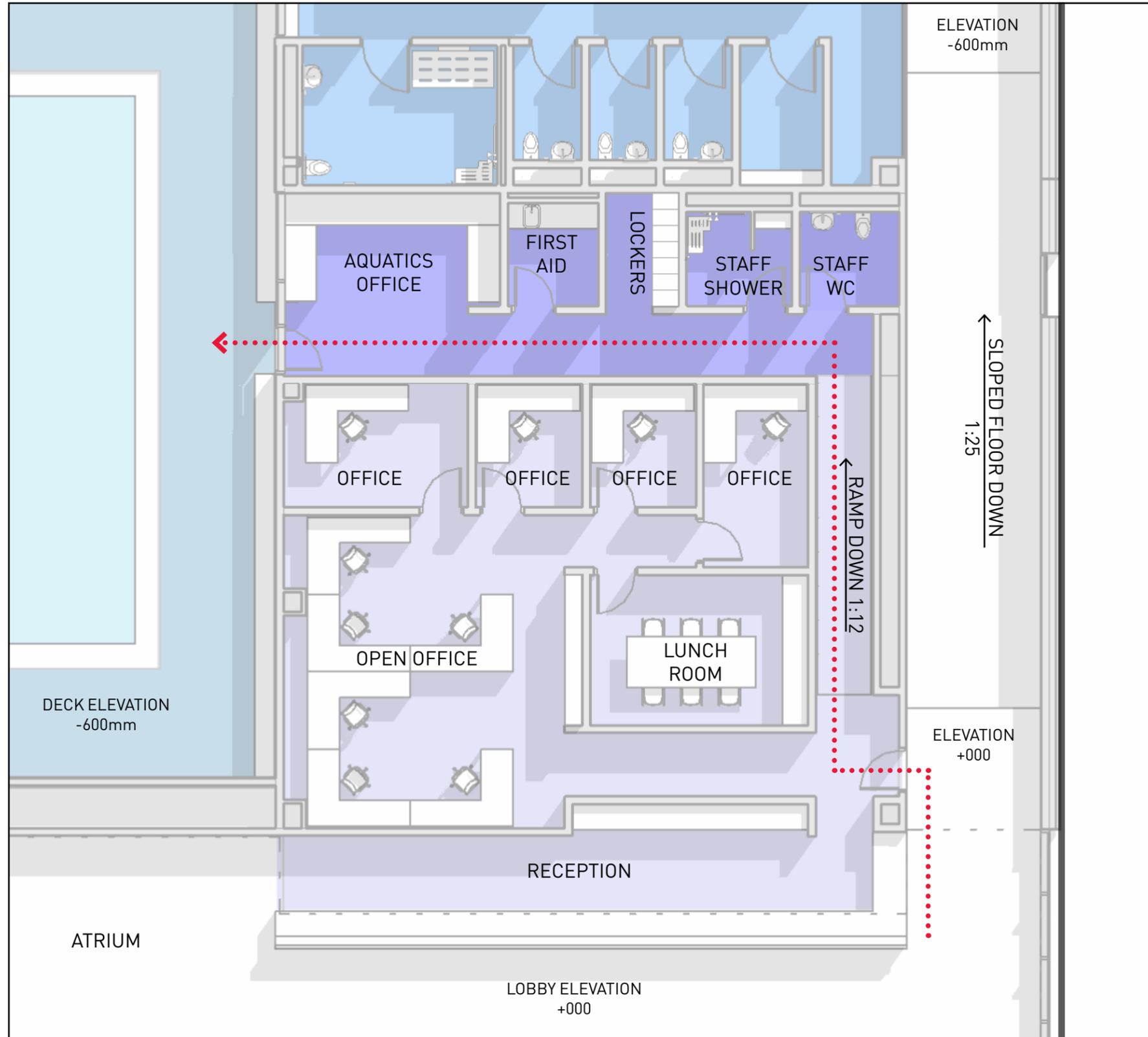
“Request for adult change tables in changerooms”



Adult change table at barrier-free WC cubicle

Adult change table at barrier-free WC cubicle

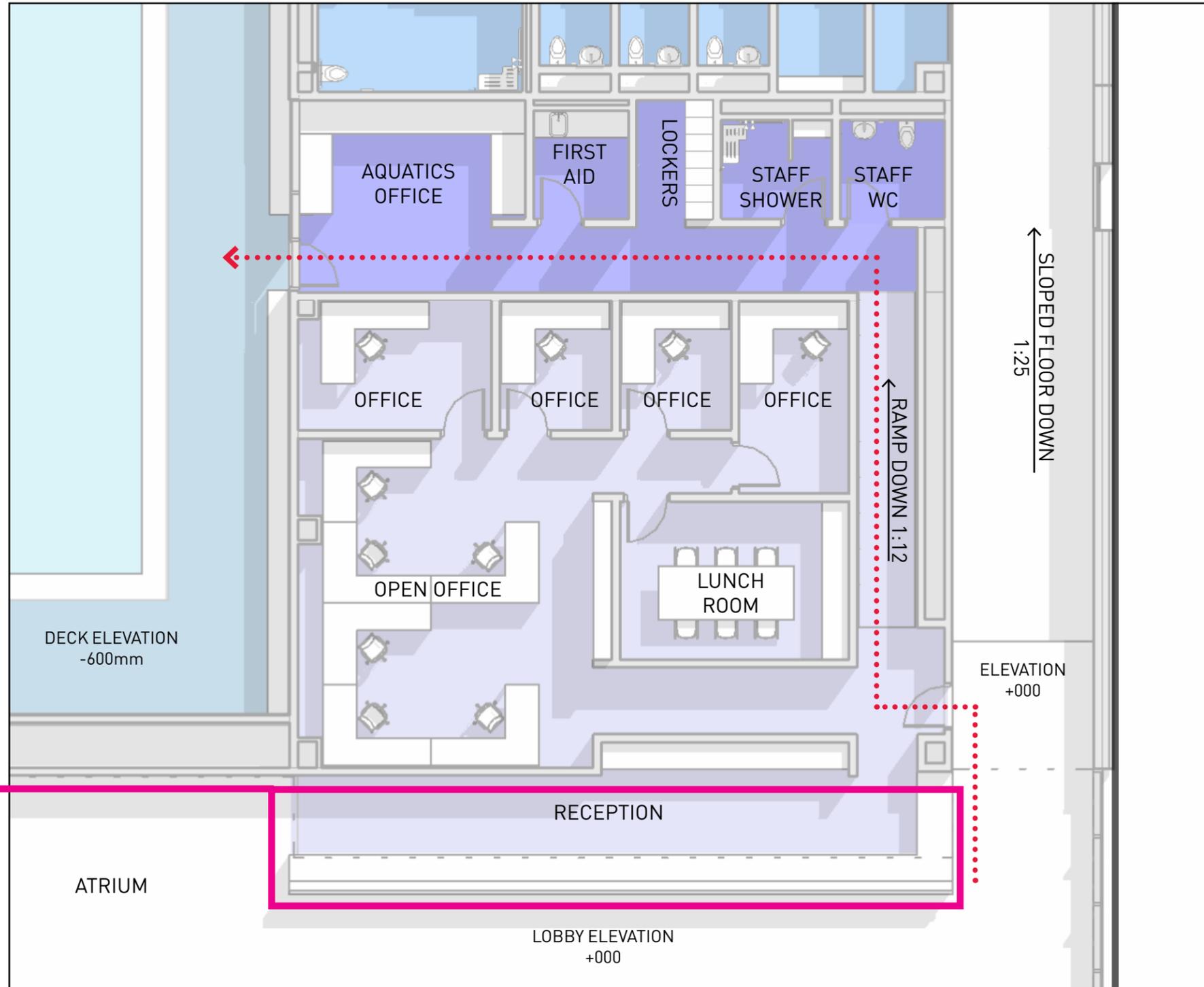
# ADMINISTRATION AREAS FLOOR PLAN



# COMMENT FROM COUNCIL

“Request for café or concessions for food”

“Provisions for on-site security space at the main desk”

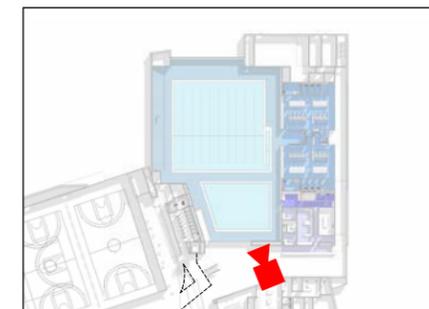


**Large reception desk accommodates enhanced customer service and provides space for potential on-site security and/or food service, to be developed further via subsequent design phases**



# POOL POOL VIEWING GALLERY

Cambridge Recreation Complex and Library

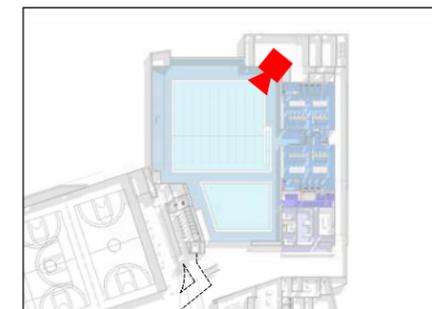




# **POOL**

## **10-LANE LAP POOL**

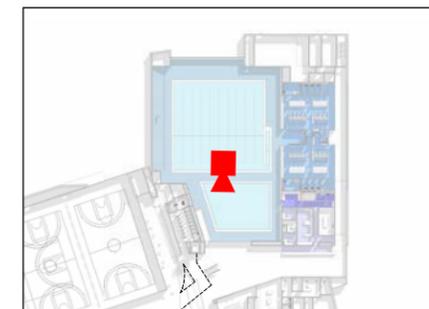
Cambridge Recreation Complex and Library





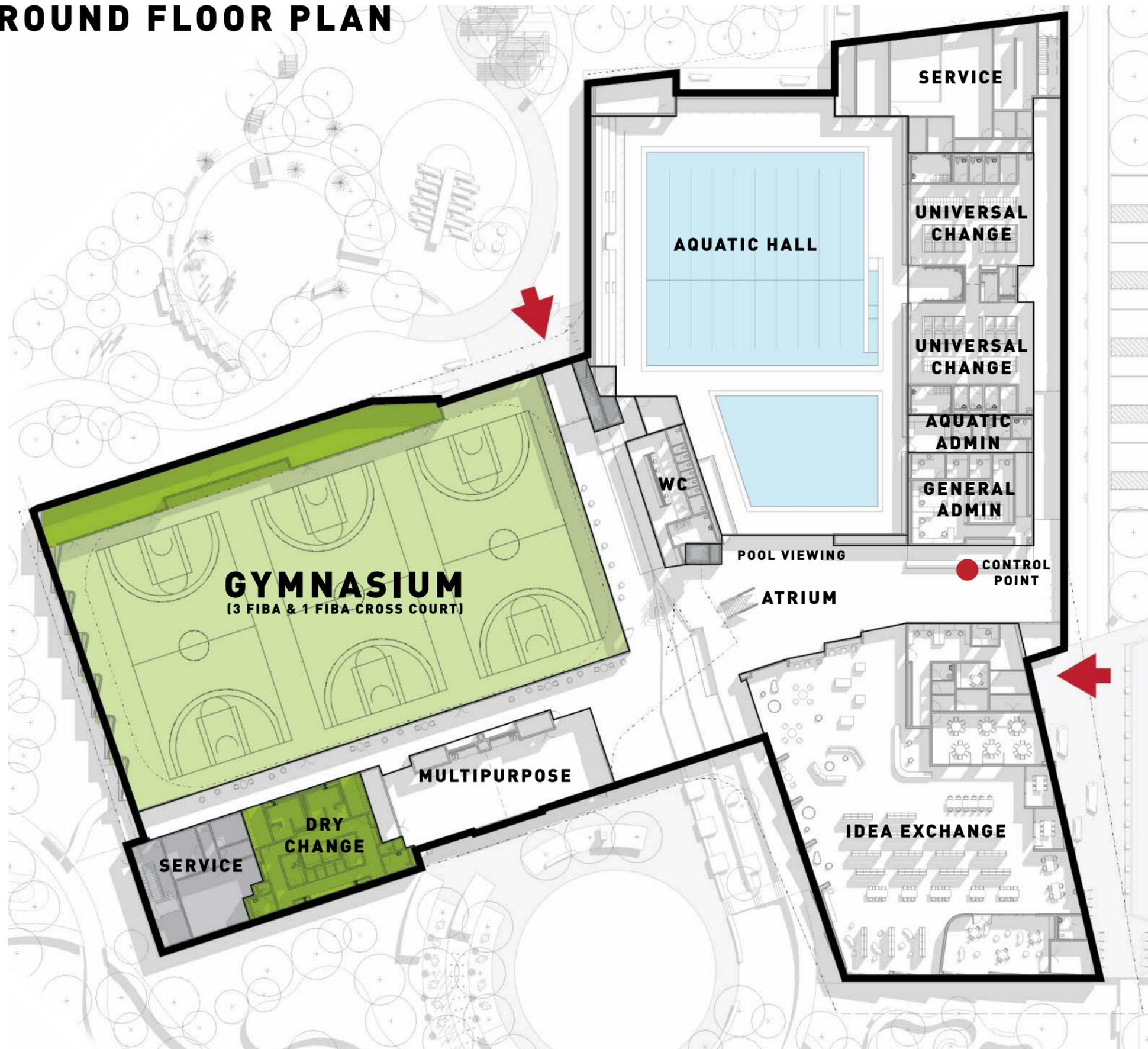
# POOL LEISURE POOL BASIN

Cambridge Recreation Complex and Library

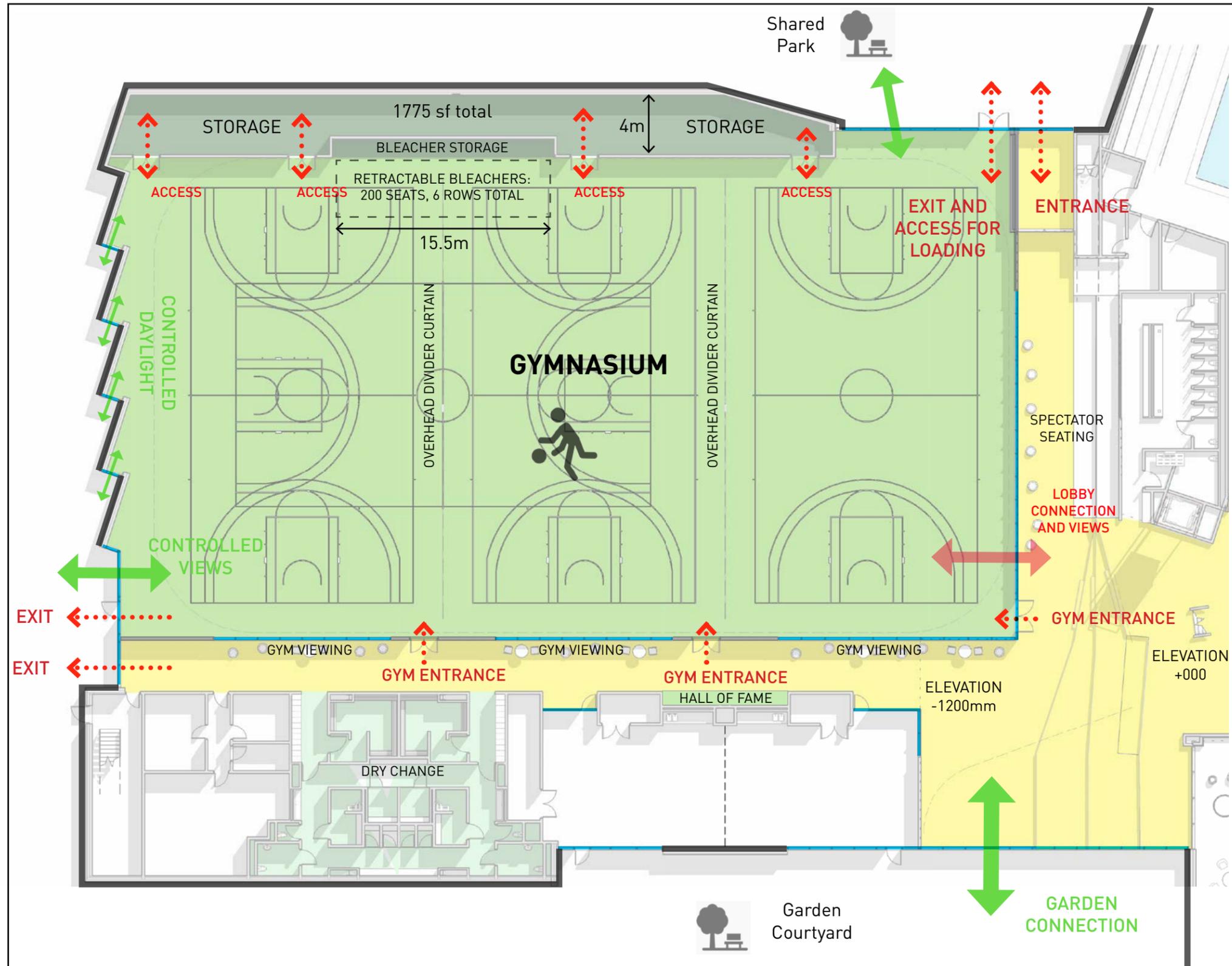


# RECREATION PLAN UPDATE

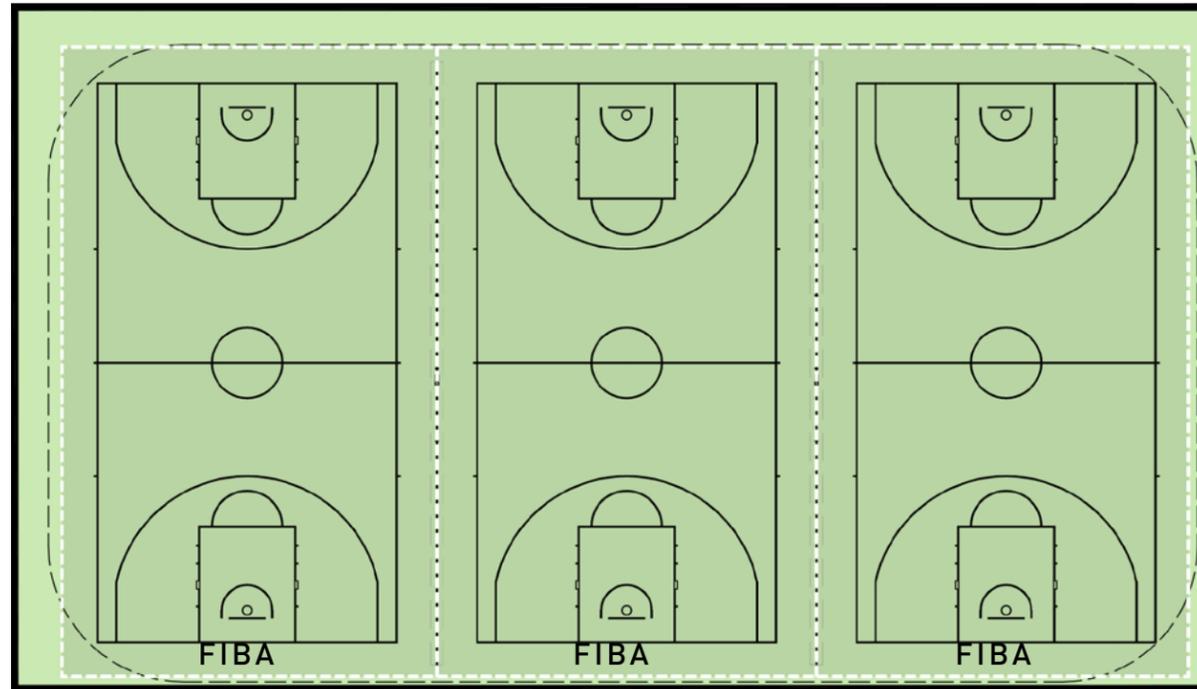
# SCHEMATIC GROUND FLOOR PLAN



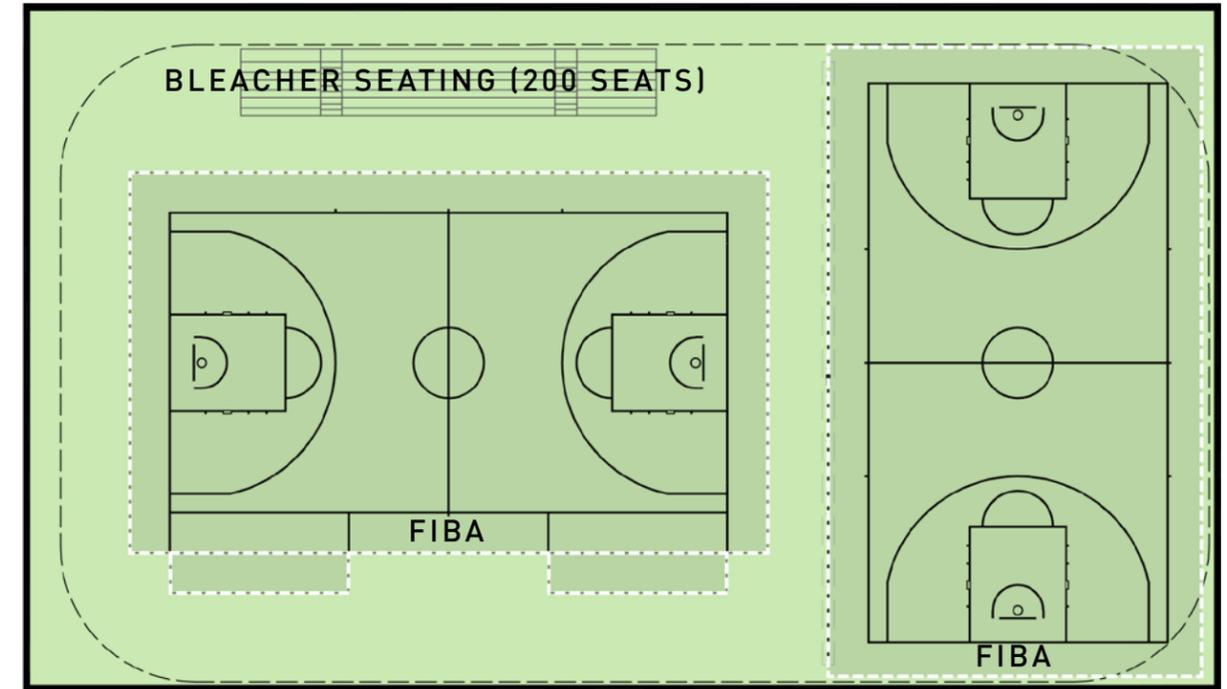
# GYMNASIUM FLOOR PLAN



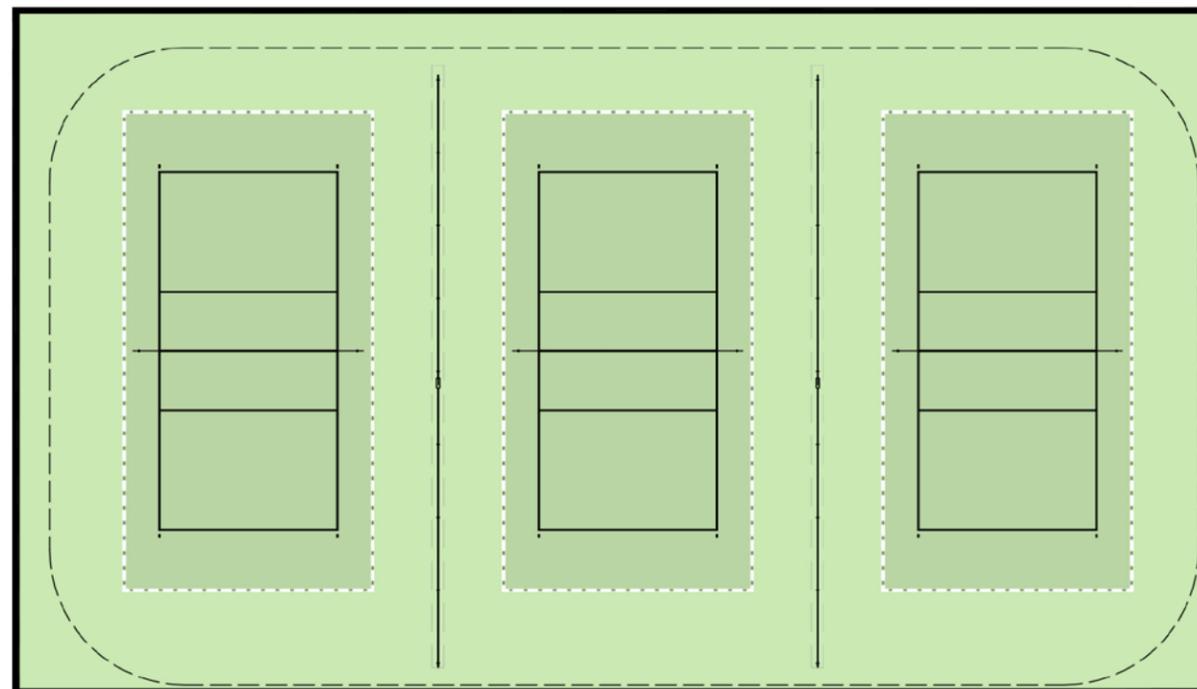
# GYMNASIUM PROGRAM AND ACTIVITIES



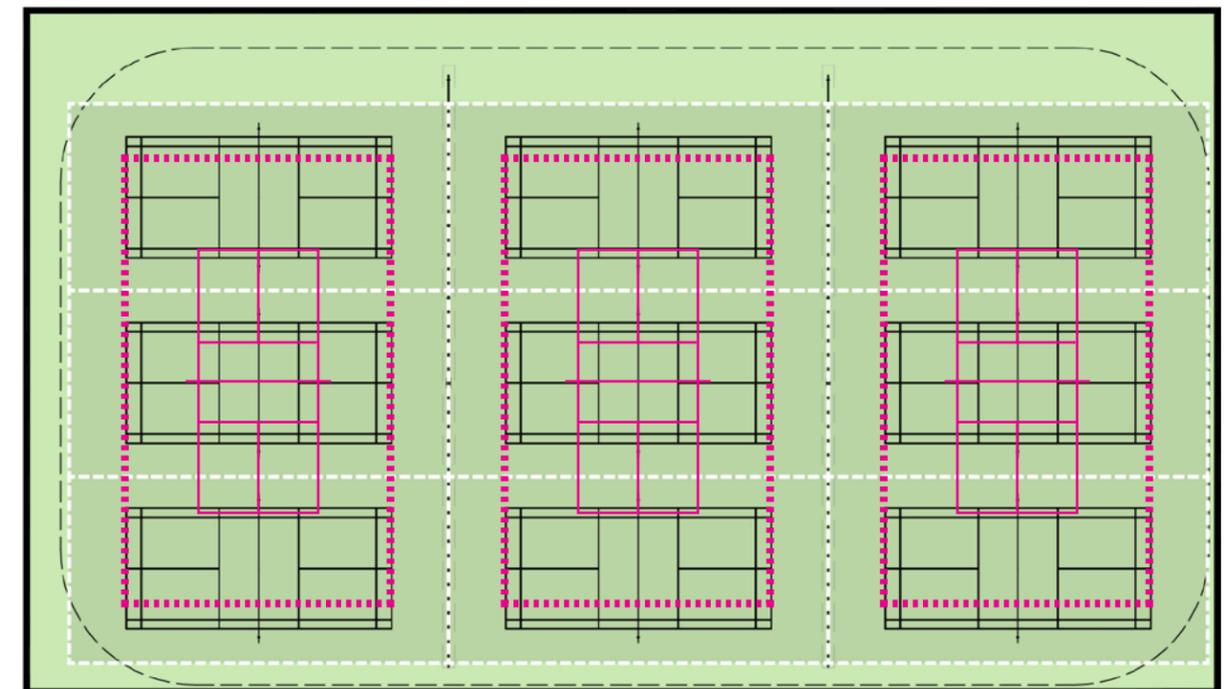
**BASKETBALL**



**BASKETBALL COMPETITION**

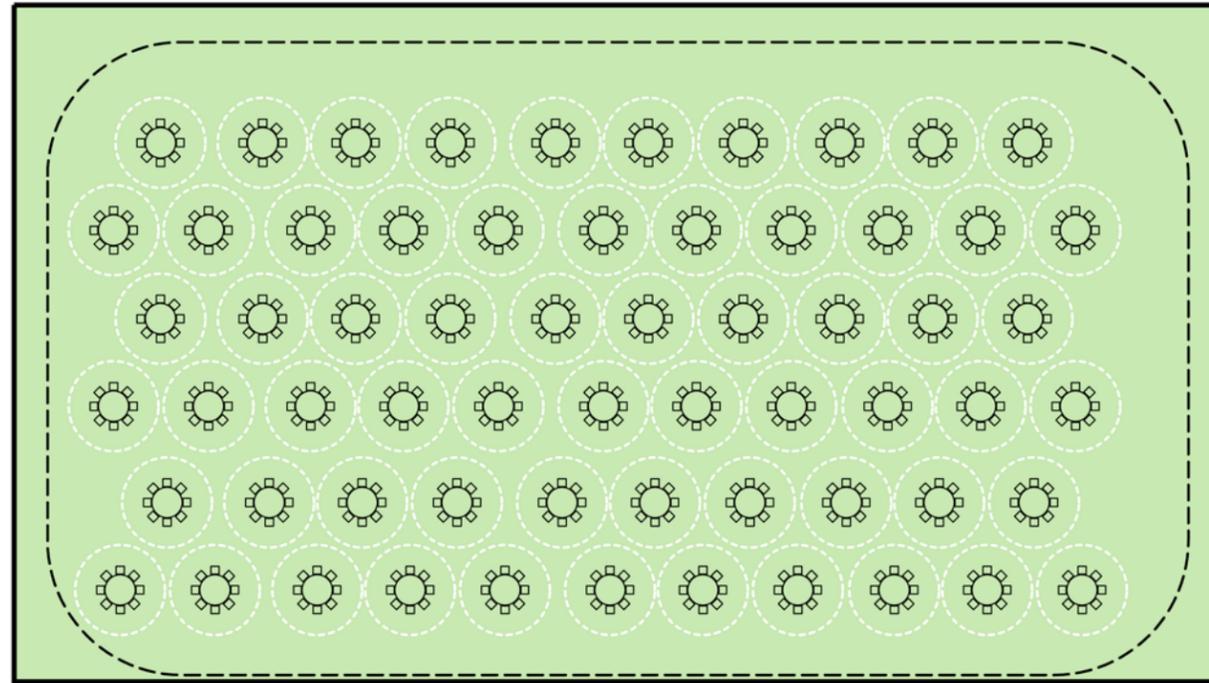


**VOLLEYBALL (9m HEIGHT CLEARANCE)**

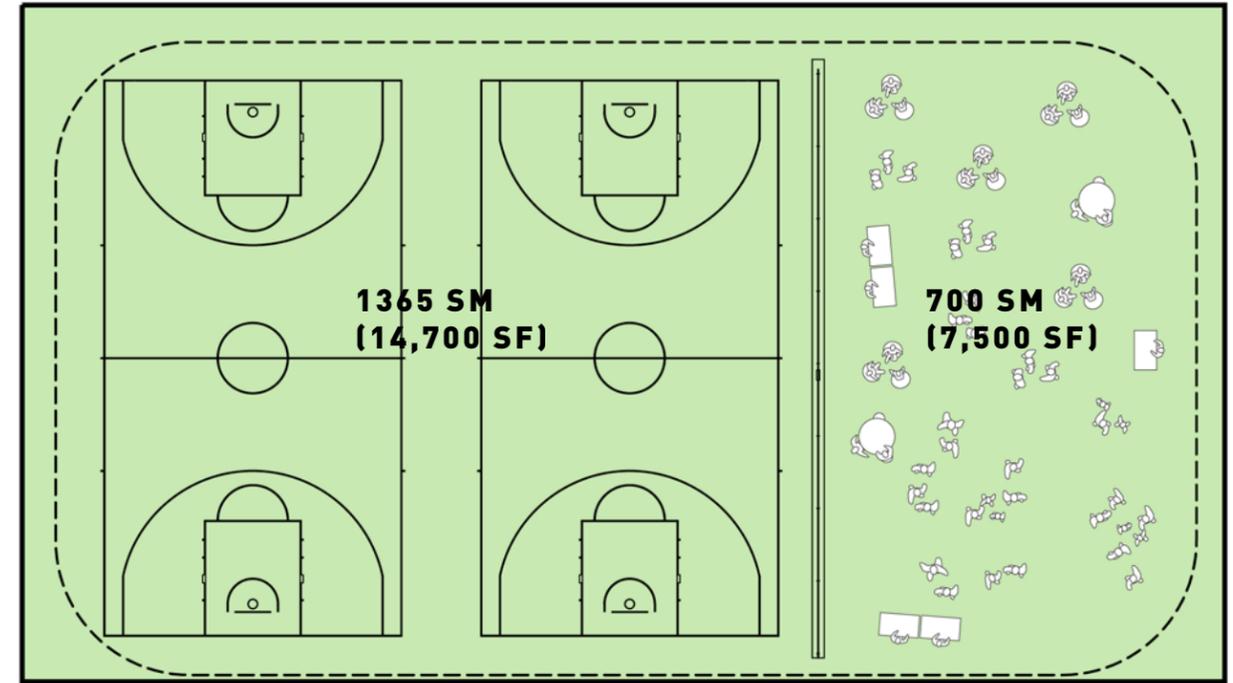


**BADMINTON/PICKLEBALL (x9) OR PARA-PICKLEBALL (x3)**

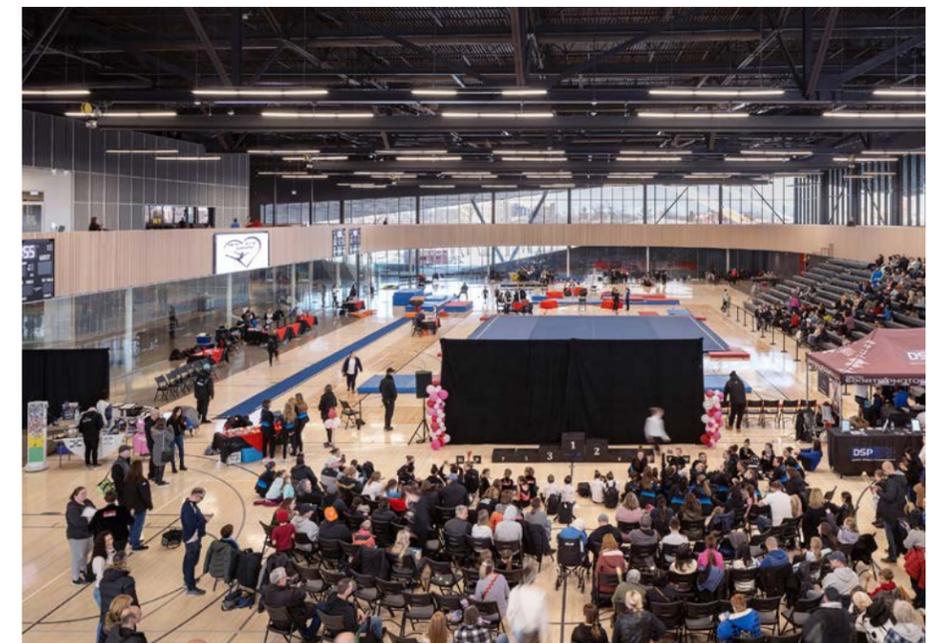
# GYMNASIUM PROGRAM AND ACTIVITIES



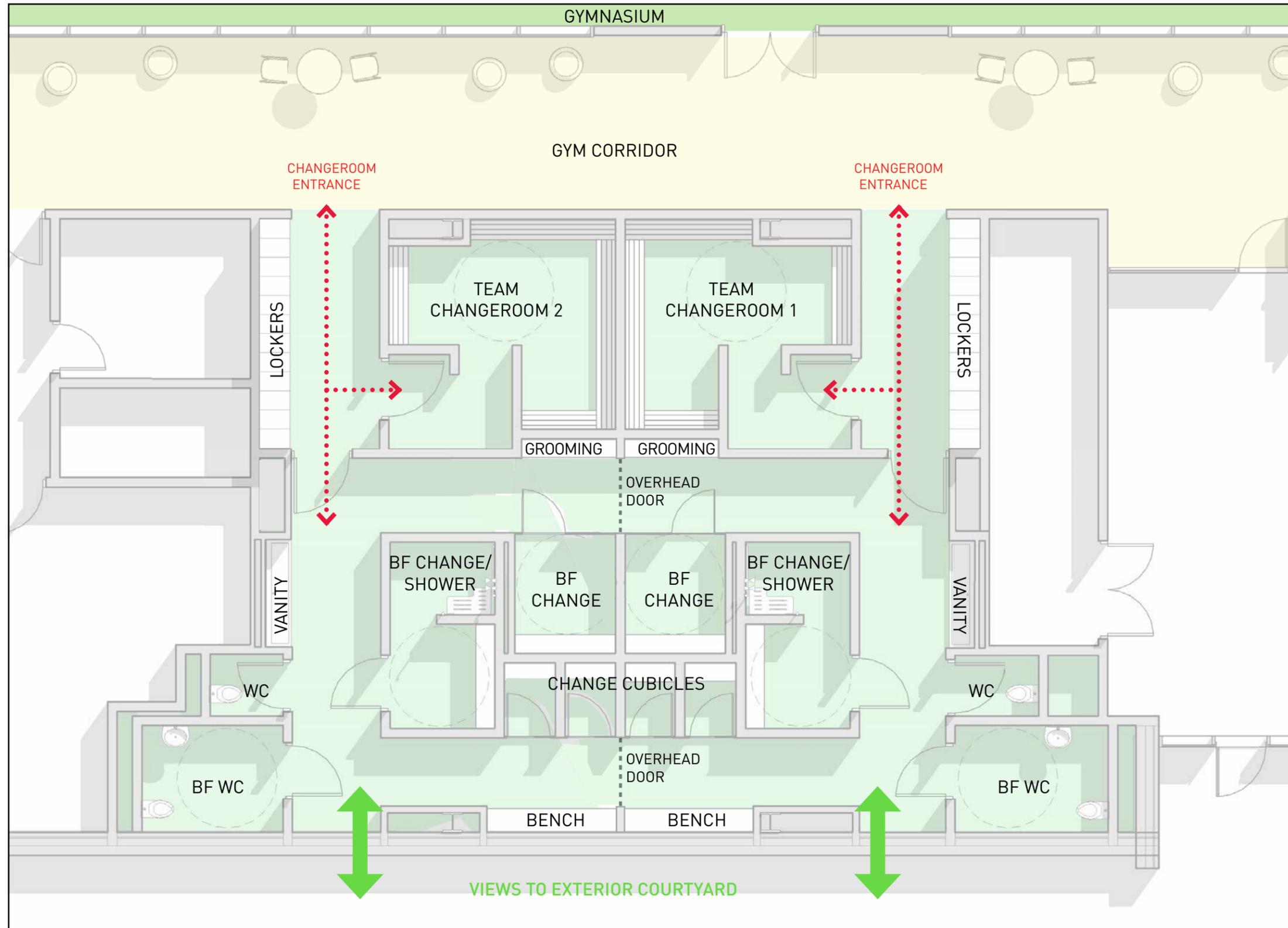
**ENTIRE SPACE (2080 SM / 22,390 SF)**  
capacity for a 400 person banquet (seated with tables)  
or a 600 person standing-only event



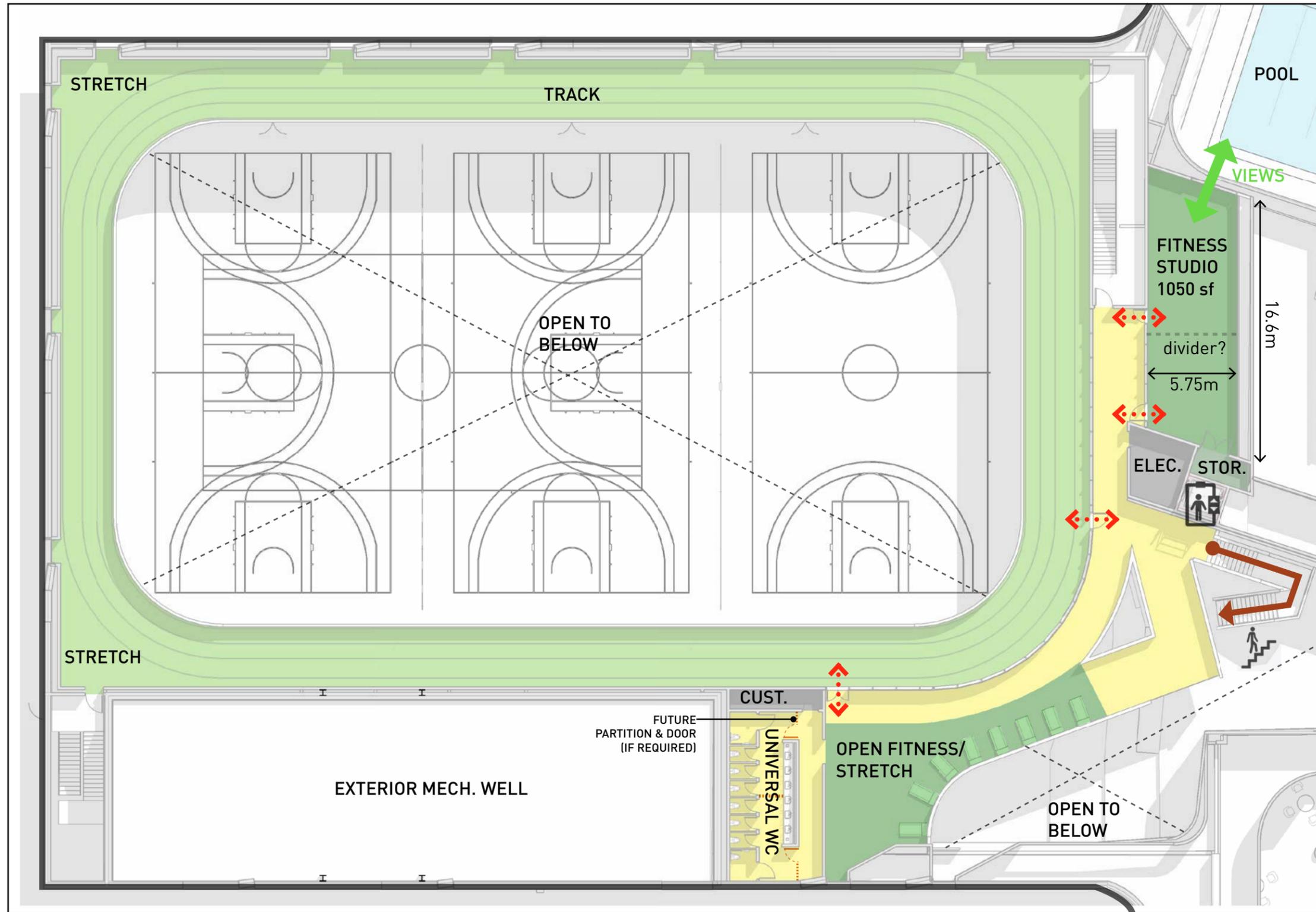
**HYBRID - (2 COURTS & 1 MULTIPURPOSE)**



# DRY CHANGEROOMS FLOOR PLAN



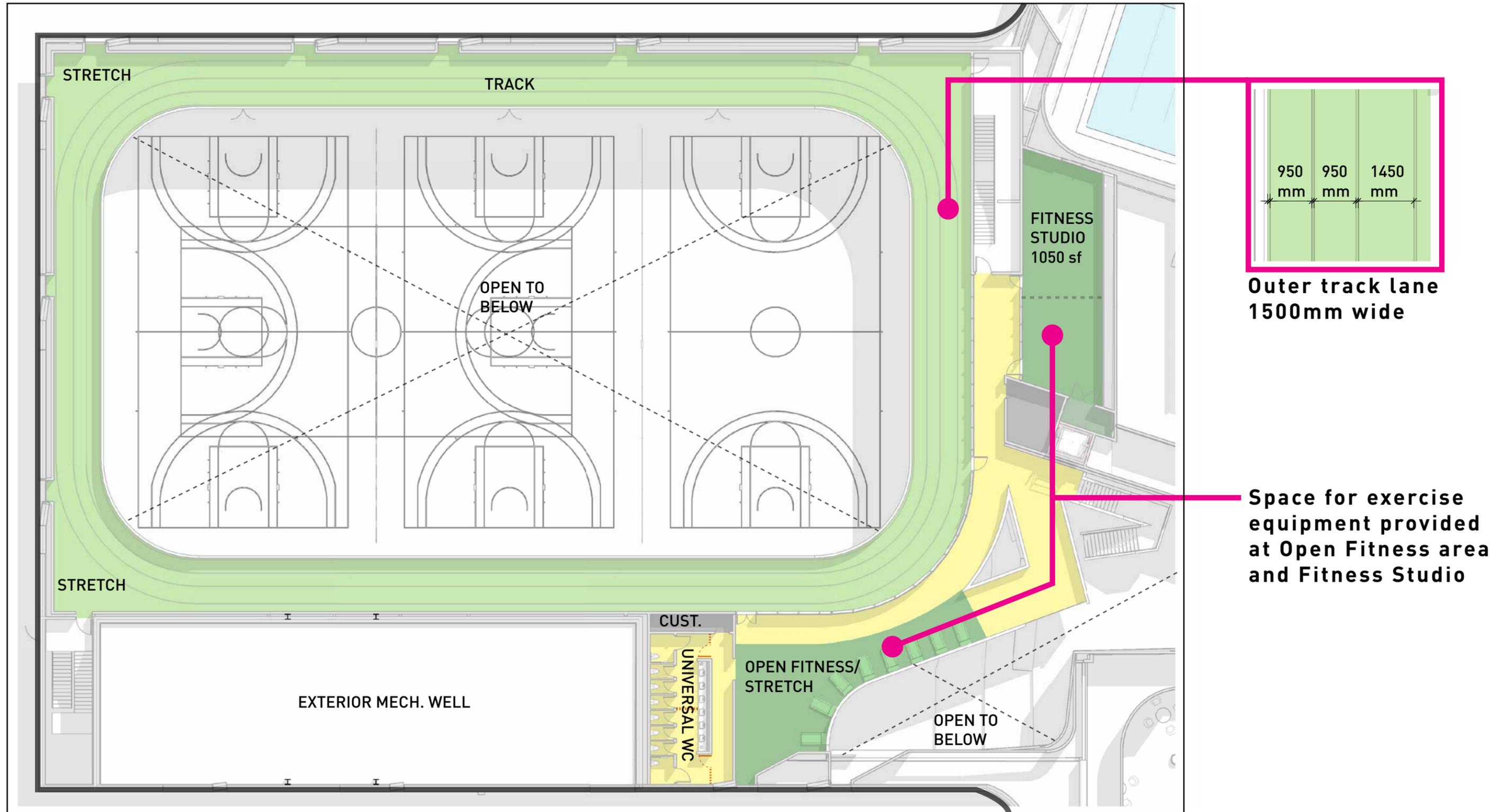
# TRACK AND FITNESS FLOOR PLAN



# COMMENTS FROM COUNCIL

“Exercise equipment in the fitness area”

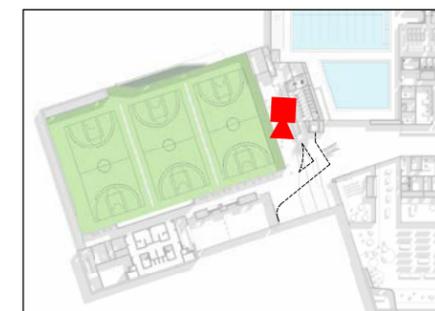
“Wider lanes on the running track that allow for passing”





# GYMNASIUM ATRIUM AND SPECTATOR

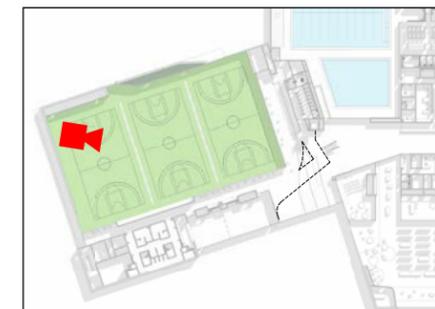
Cambridge Recreation Complex and Library





# GYMNASIUM COURT AND RUNNING TRACK

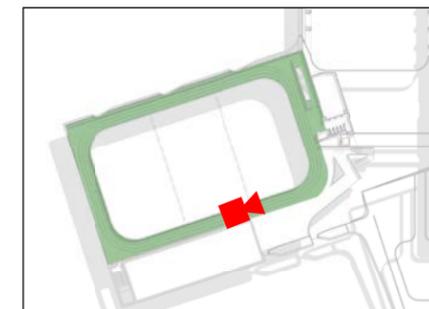
Cambridge Recreation Complex and Library





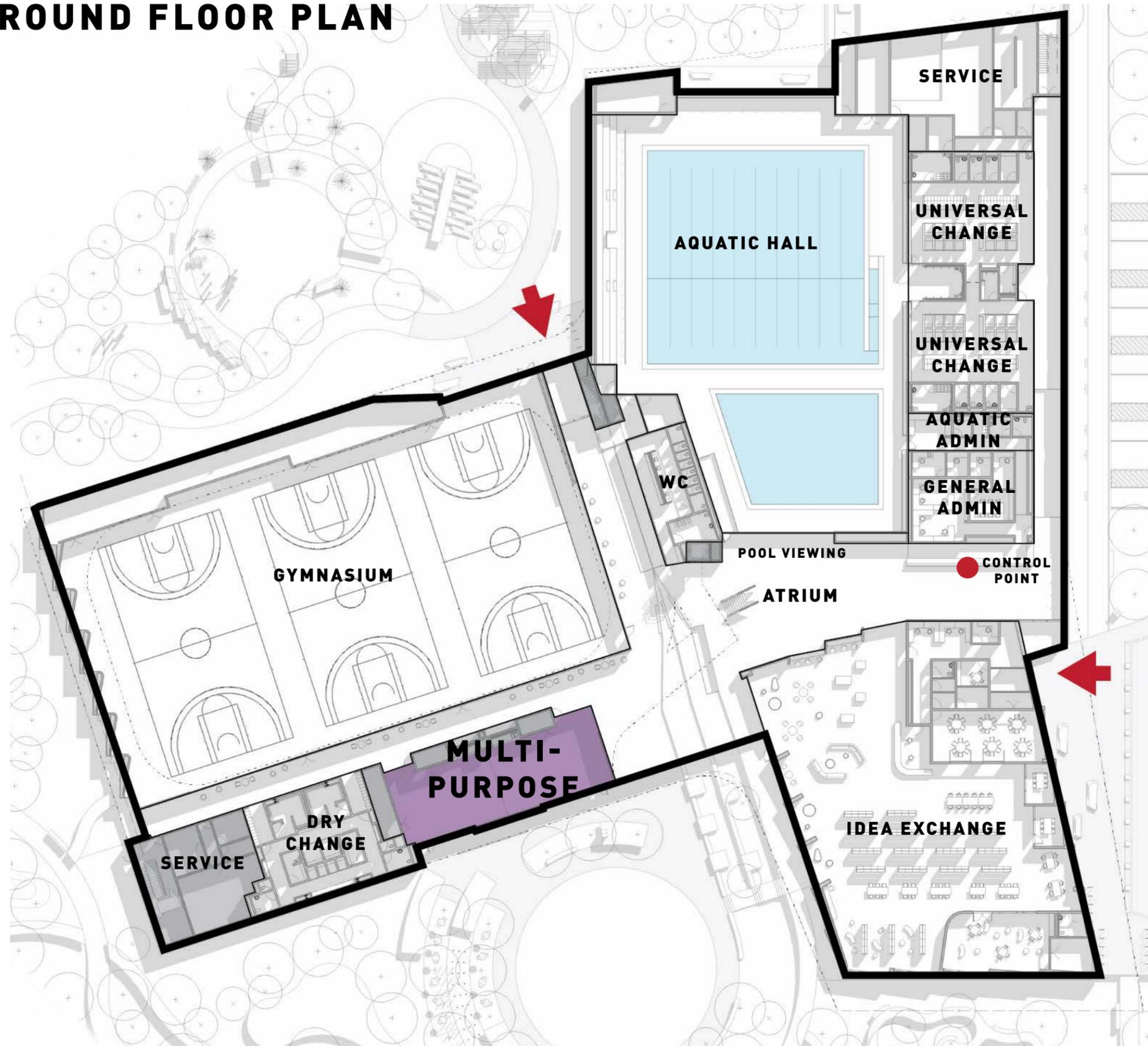
# GYMNASIUM RUNNING TRACK & FITNESS

Cambridge Recreation Complex and Library

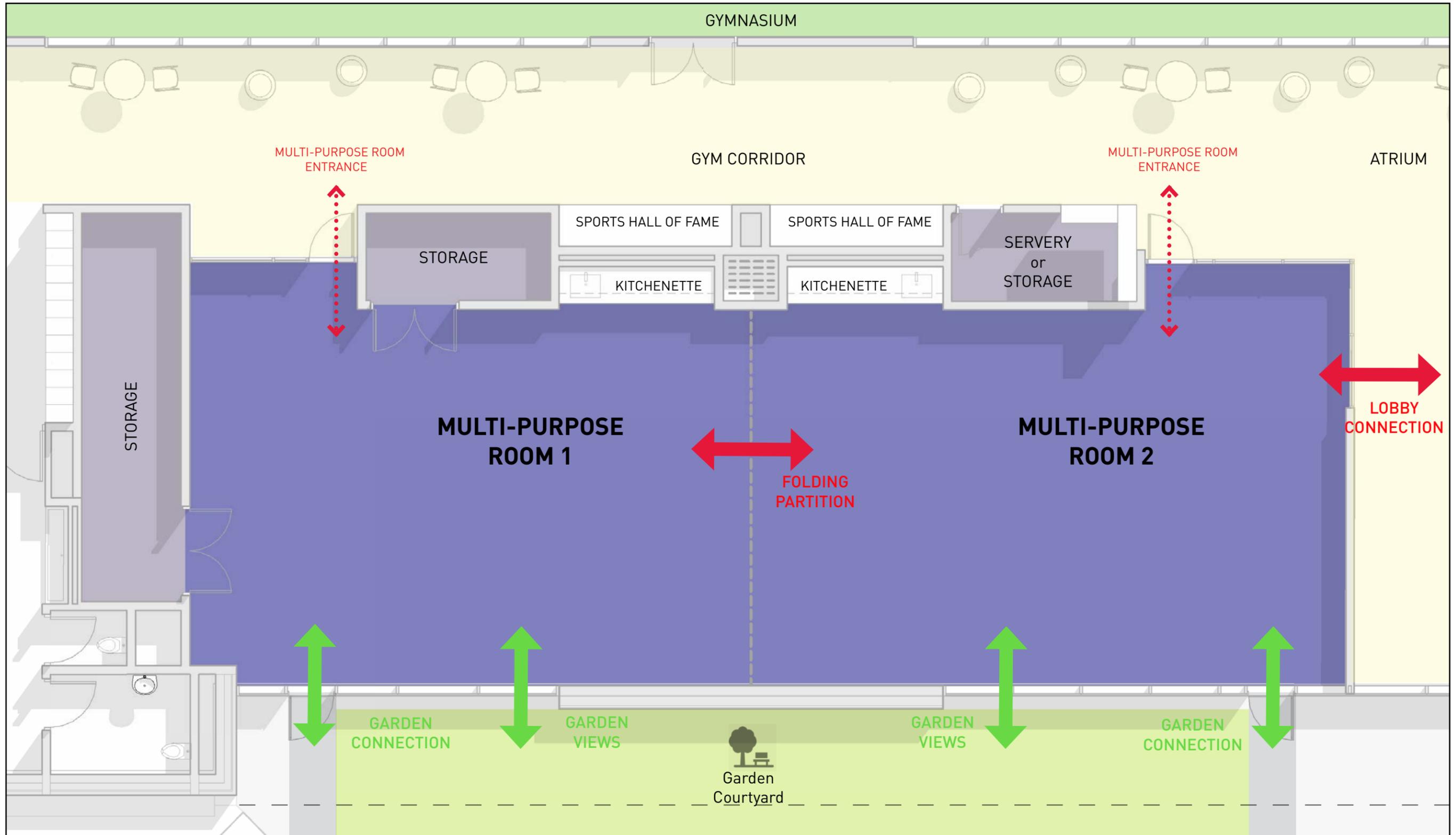


# MULTIPURPOSE ROOM UPDATE

# SCHEMATIC GROUND FLOOR PLAN

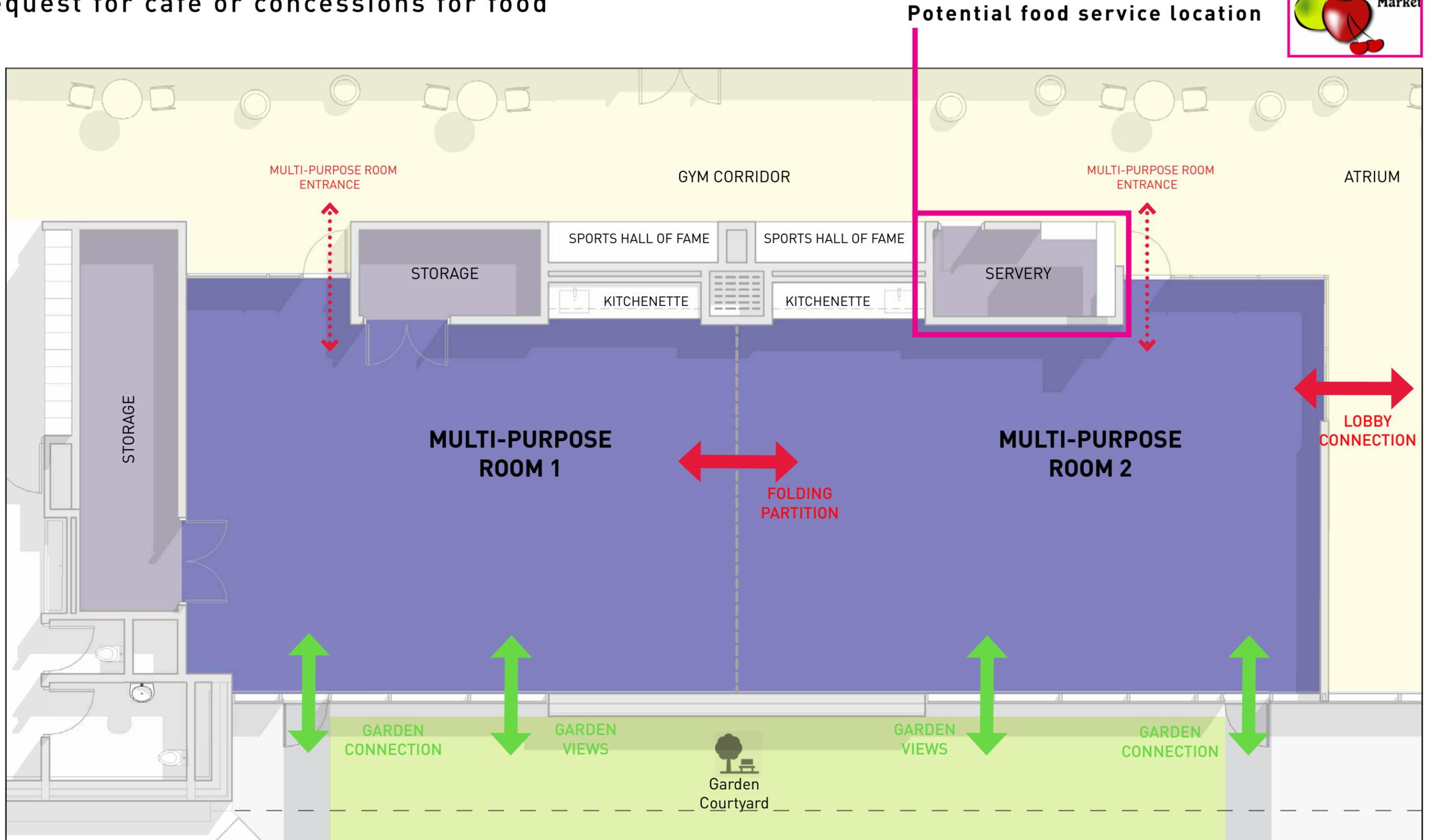


# MULTI-PURPOSE ROOMS UPDATED PLAN



# COMMENT FROM COUNCIL

“Request for café or concessions for food”



# **PUBLIC WASHROOM UPDATE**

# UNIVERSAL WASHROOMS PRECEDENTS



Clayton Community Centre  
Surrey BC, HCMA Architects



Rhode Island School of Design Student Centre  
Providence RI, Work AC Architects

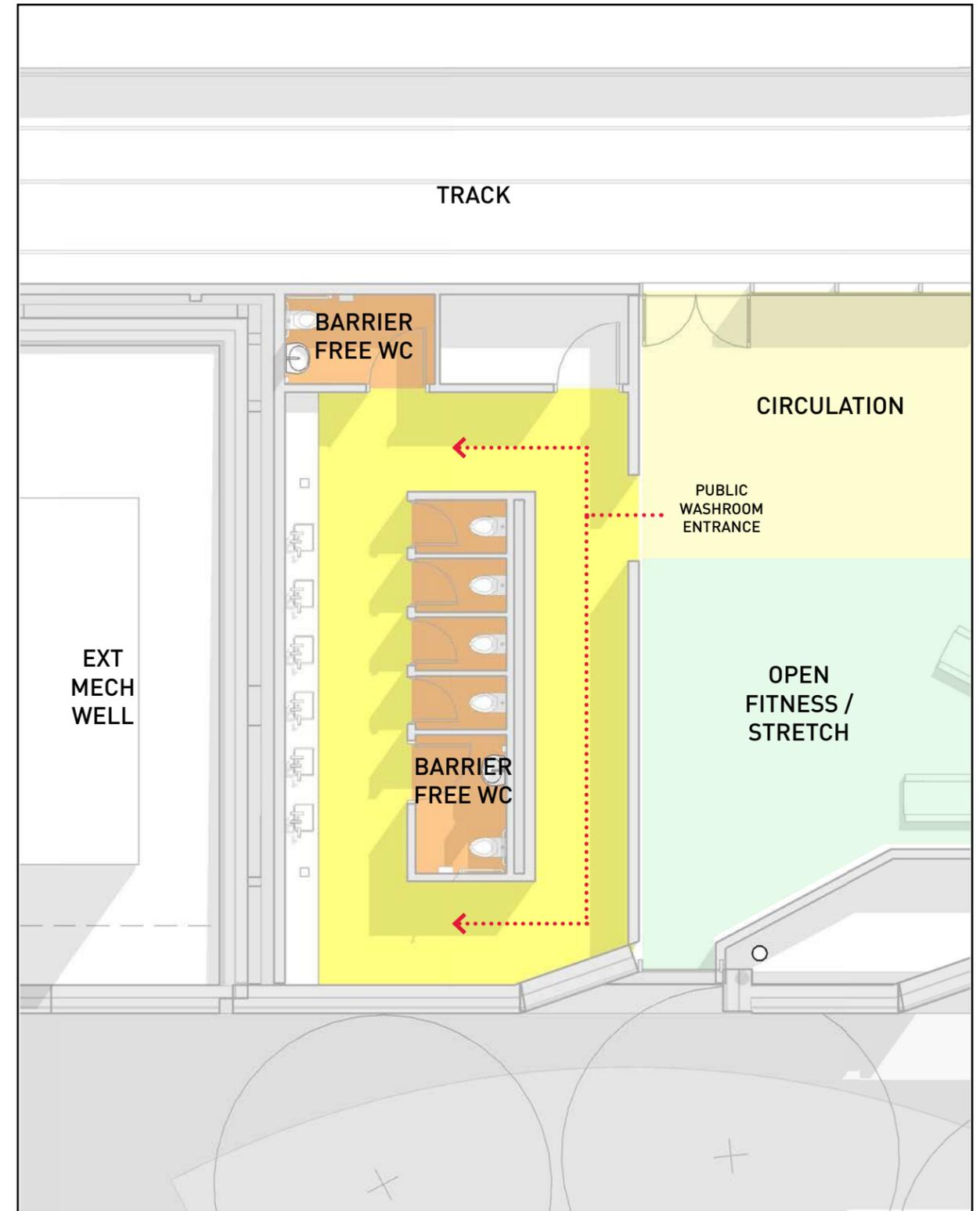
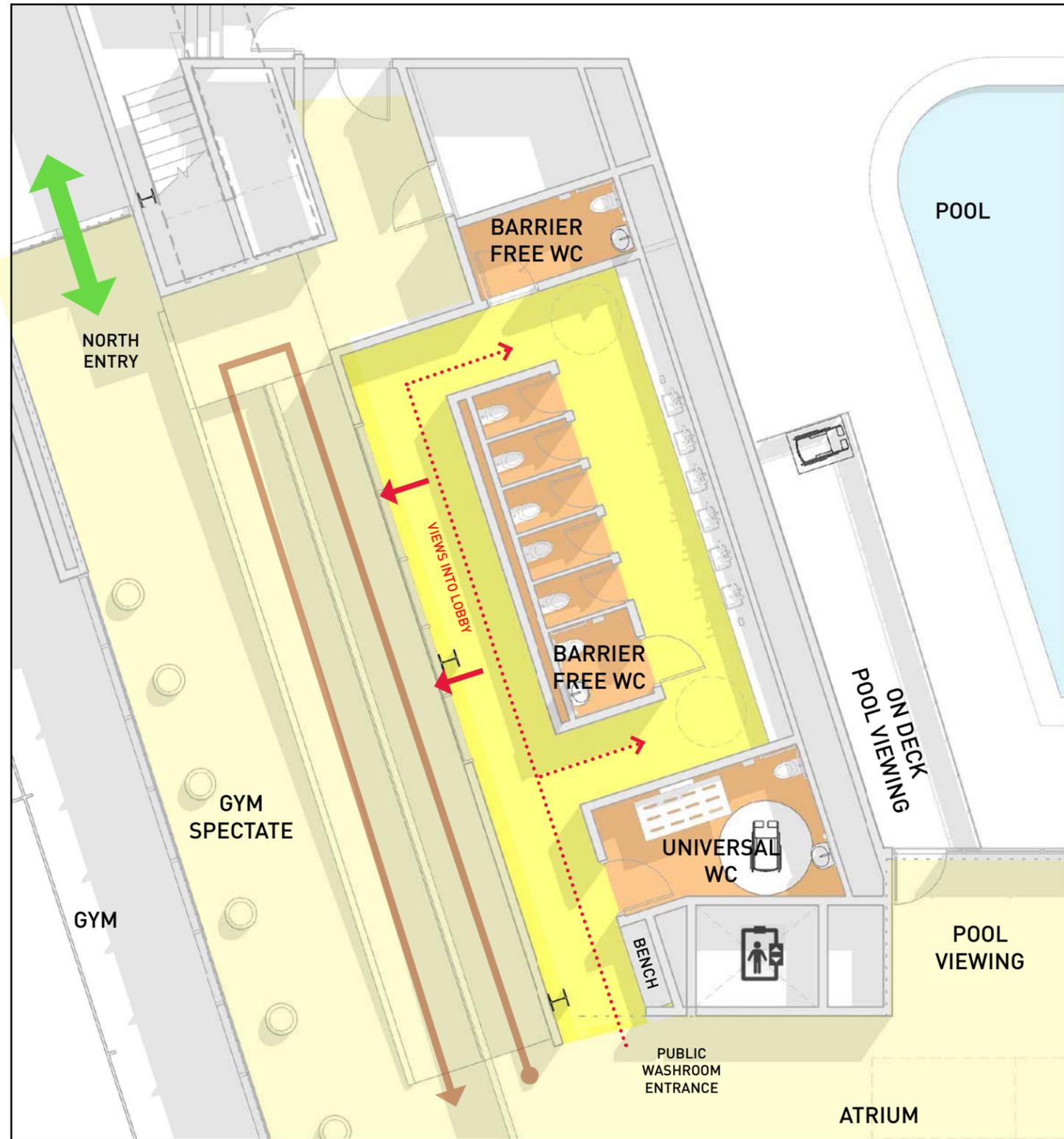
# UNIVERSAL WASHROOMS PRECEDENTS



Century Gardens Community Youth Hub  
Brampton, ON



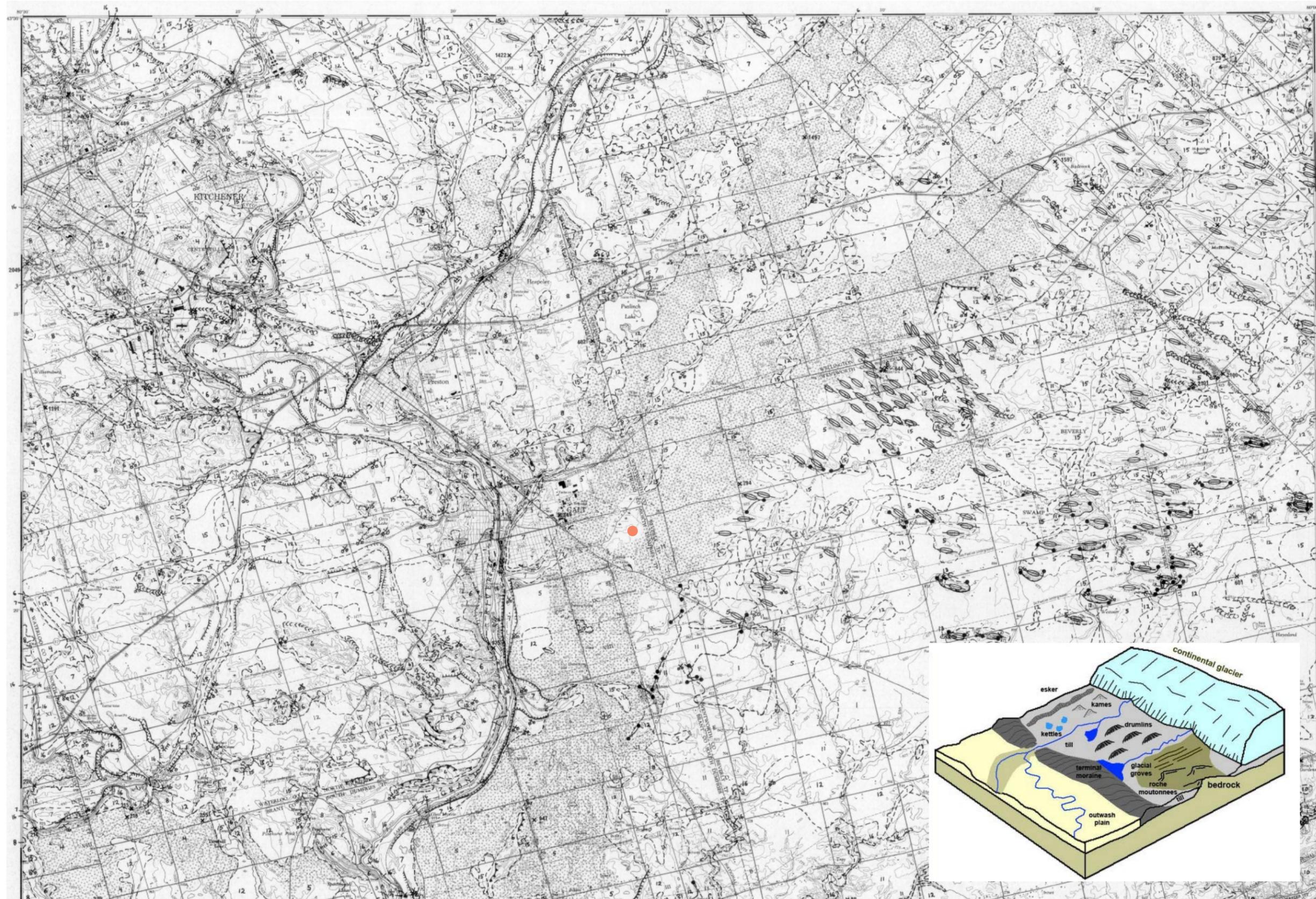
# UNIVERSAL WASHROOMS UPDATED PLANS



LEVEL 2 - PUBLIC WASHROOM

# MASSING UPDATE

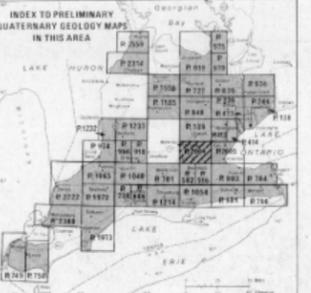
# PARIS GALT MORAINE




 Ministry of Natural Resources  
 Hon. Alan W. Pope  
 Minister  
 Al I. Foster  
 Deputy Minister

ONTARIO GEOLOGICAL SURVEY  
 MAP P.2604  
 GEOLOGICAL SERIES-PRELIMINARY MAP  
 QUATERNARY GEOLOGY  
**CAMBRIDGE AREA**  
 SOUTHERN ONTARIO  
 Scale 1:50 000  
 NTS Reference: 40 P/8  
 © OMNR-OGS 1983

Parts of this publication may be quoted if credit is given and the material is properly referenced.  
 This map is published with the permission of E.G. Pye, Director, Ontario Geological Survey.

**INDEX TO PRELIMINARY QUATERNARY GEOLOGY MAPS IN THIS AREA**  


**LEGEND**

**PHANEROZOIC**  
**CENOZOIC**  
**QUATERNARY**  
**RECENT**

- 17 Lake Ontario deposits; stratified and gravel
- 16 Stream deposits; gravel, sand, silt, and clay
- 15 Peat and muck

**PLEISTOCENE**  
**LATE WISCONSINAN**

- 14 Alluvial fan gravel
- 13 Beach gravel
- 12 Lacustrine and outwash sand
- 11 Lake deposits; stratified to varved clay, silt, and fine sand
- 10 Halton Till; clay or silt till
- 9 Outcrop complex; bouldery till and bedrock ridges
- 8 Ice-contact sand; kames and eskers
- 7 Outwash gravel
- 6 Ice-contact gravel; kames and eskers
- 5 Wentworth Till; stony, sandy, silt till
- 4 Port Stanley Till; silt to sandy silt till
- 3 Maryhill Till; clayey silt till
- 2 Catfish Creek Till; stony, sandy silt till

**PALEOZOIC**  
**ORDOVICIAN AND SILURIAN**

- 1 Shale and dolomite

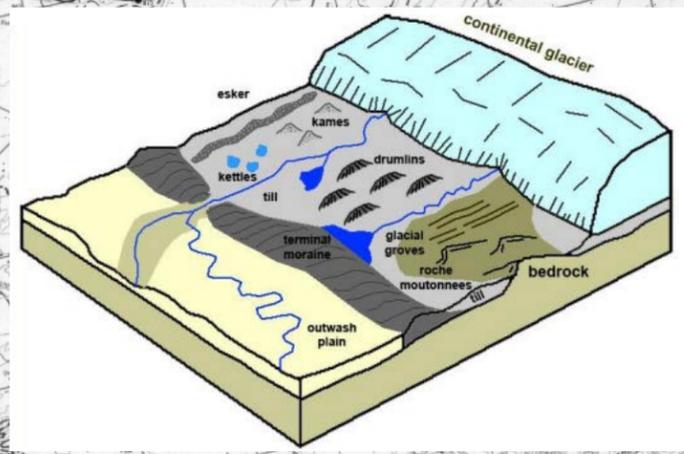
\*exposed only in river banks beneath younger till.  
 Note: The legend, symbols, and marginal notes are for both the Cambridge and Hamilton map sheets.

**SYMBOLS**

-  Drumlin
-  Esker
-  Geological boundary, approximate
-  Glacial fluting
-  Bedrock pressure-release ridge
-  Eroded scarp
-  Ice-contact face
-  Glacial striae
-  Trend of moraine crest
-  Abandoned shoreline feature
-  Hummocky topography
-  Shallow lacustrine sediments of Lake Pelee
-  Sample site\*
-  Sand or gravel pit
-  Rock quarry

\*Sample sites are referred to in OPR 5420.

**SOURCES OF INFORMATION**







## **DOWNTOWN CAMBRIDGE**

contains a rich history of natural grey stone buildings including City Hall and Idea Exchange (post office) which line the city's public realm

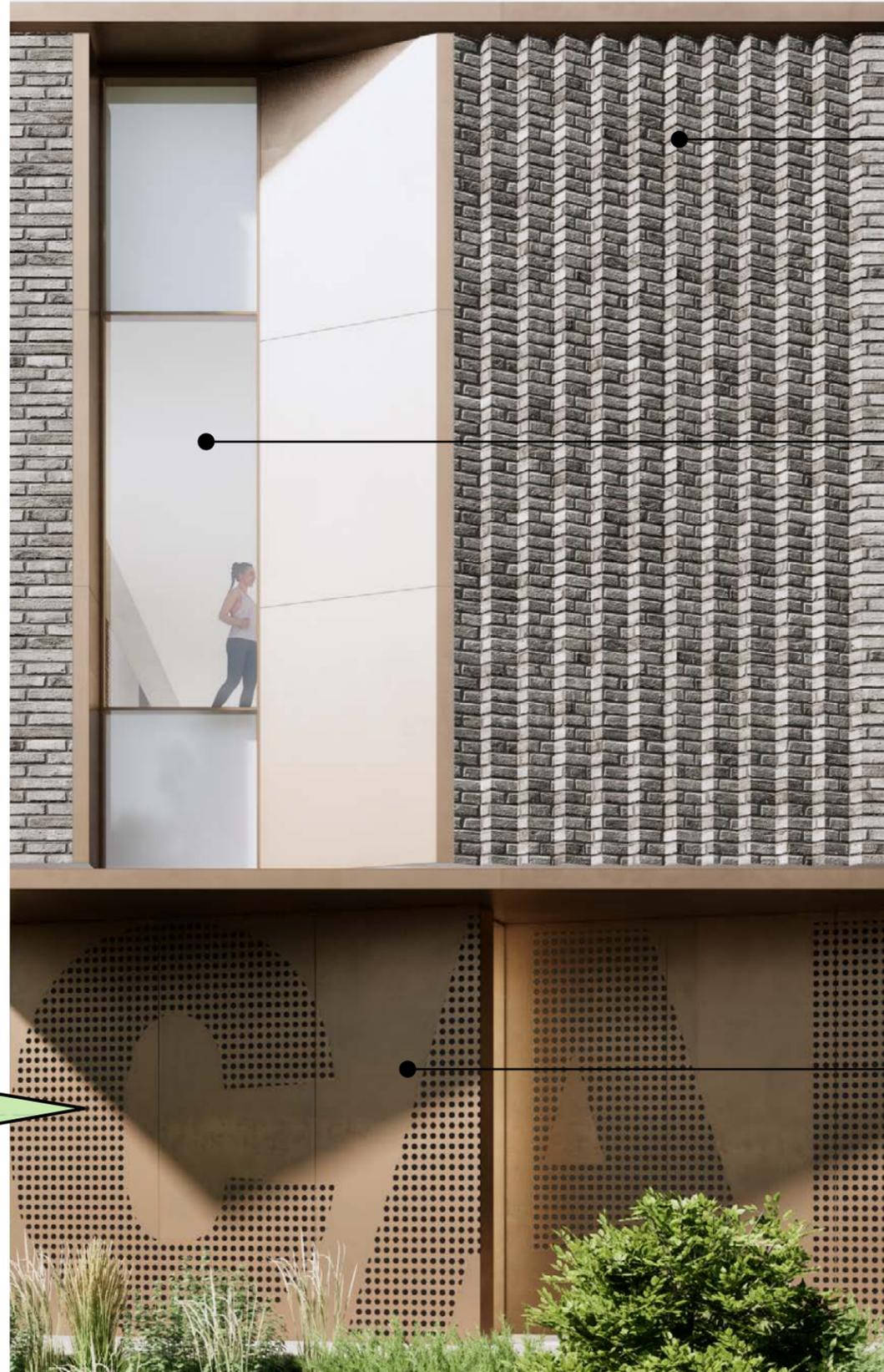
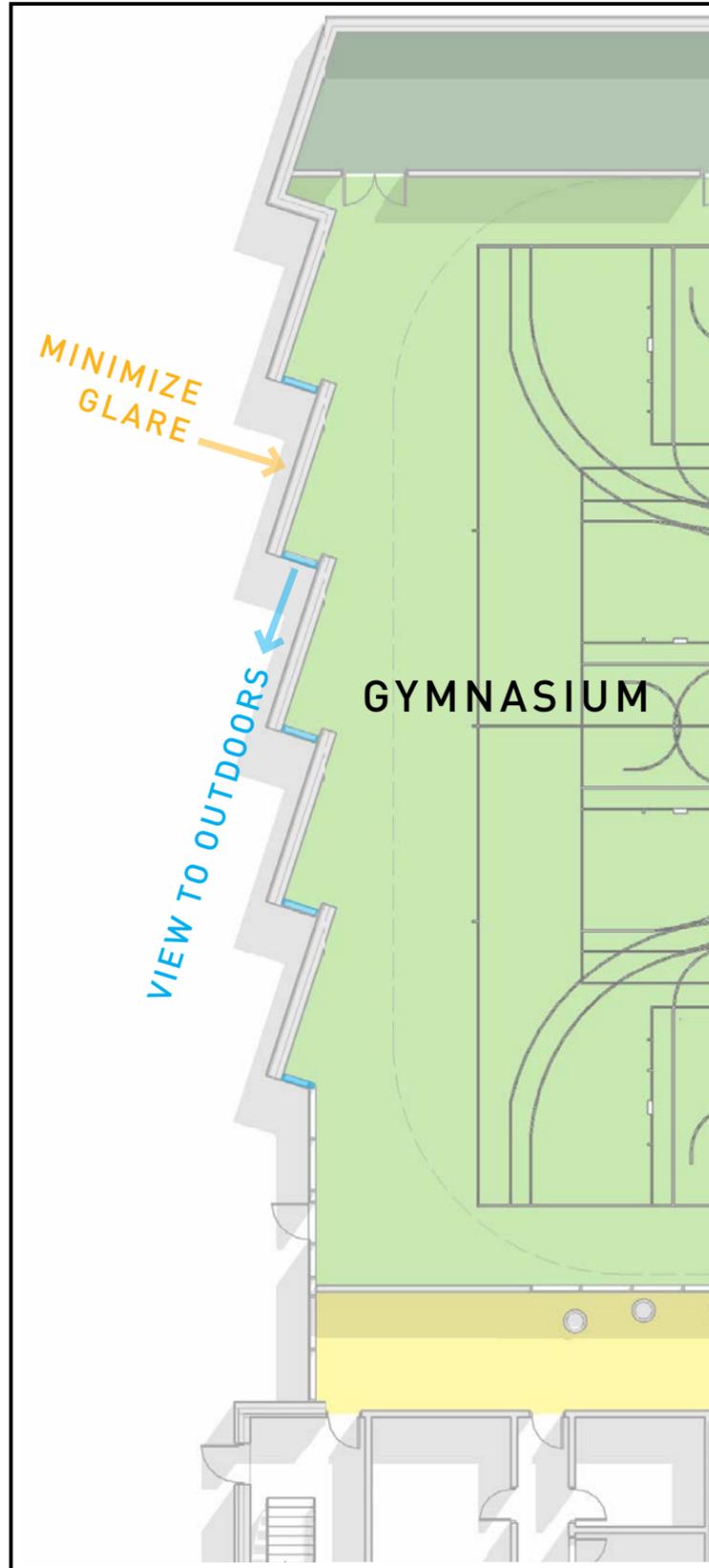
**AERIAL VIEW**



# NORTHERN PARK ENTRANCE



# FACADE STUDY - INTRODUCING TEXTURE



**WESLEY BLVD ENTRANCE**



**GYM ELEVATION FROM WESLEY BLVD**



**GYM FACADE FROM SOUTH WEST**



**COURTYARD**



# IDEA EXCHANGE

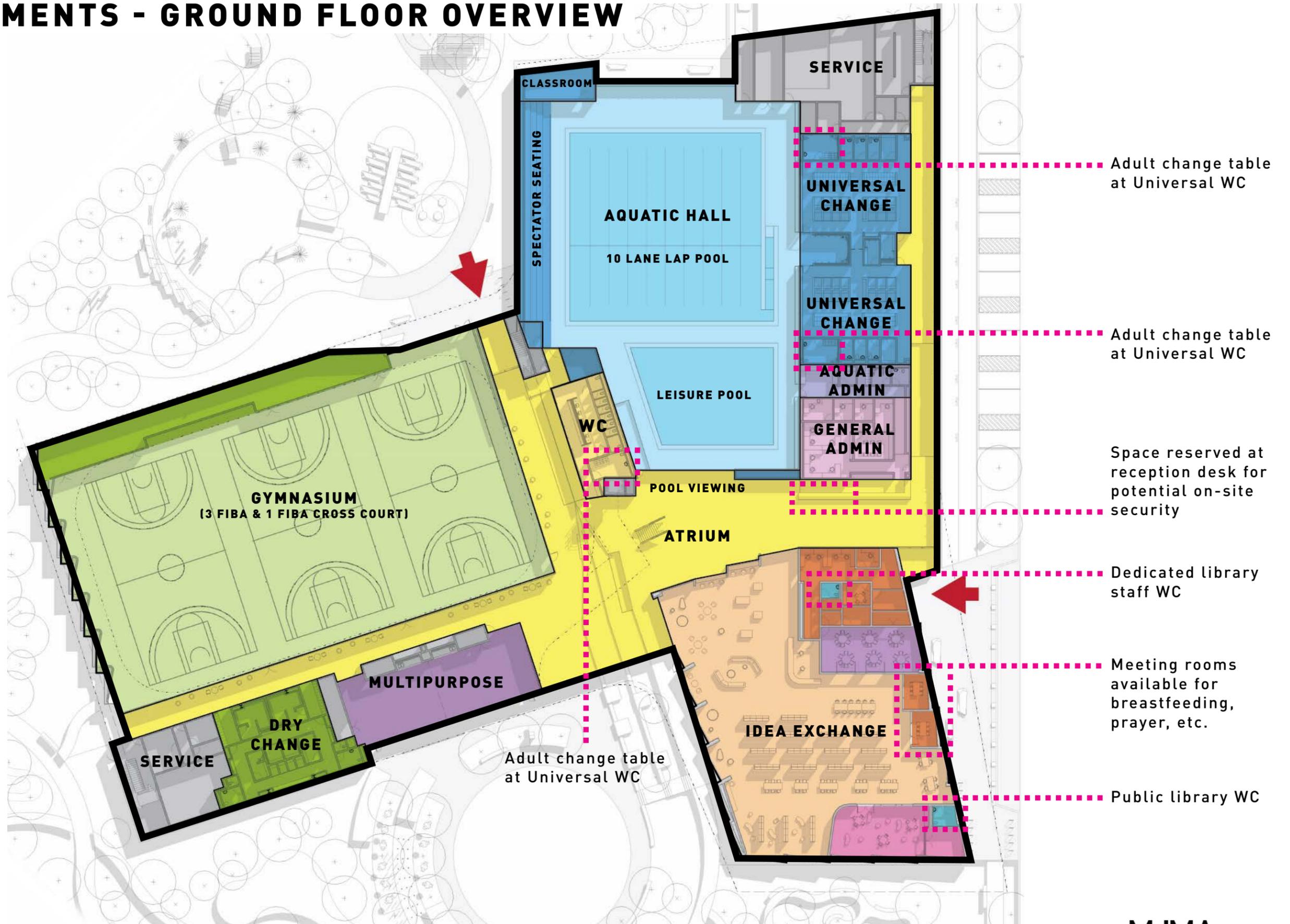
## SOUTHERN COURTYARD SPACE LOOKING TOWARDS LIBRARY INTERIOR



**THANK YOU!**

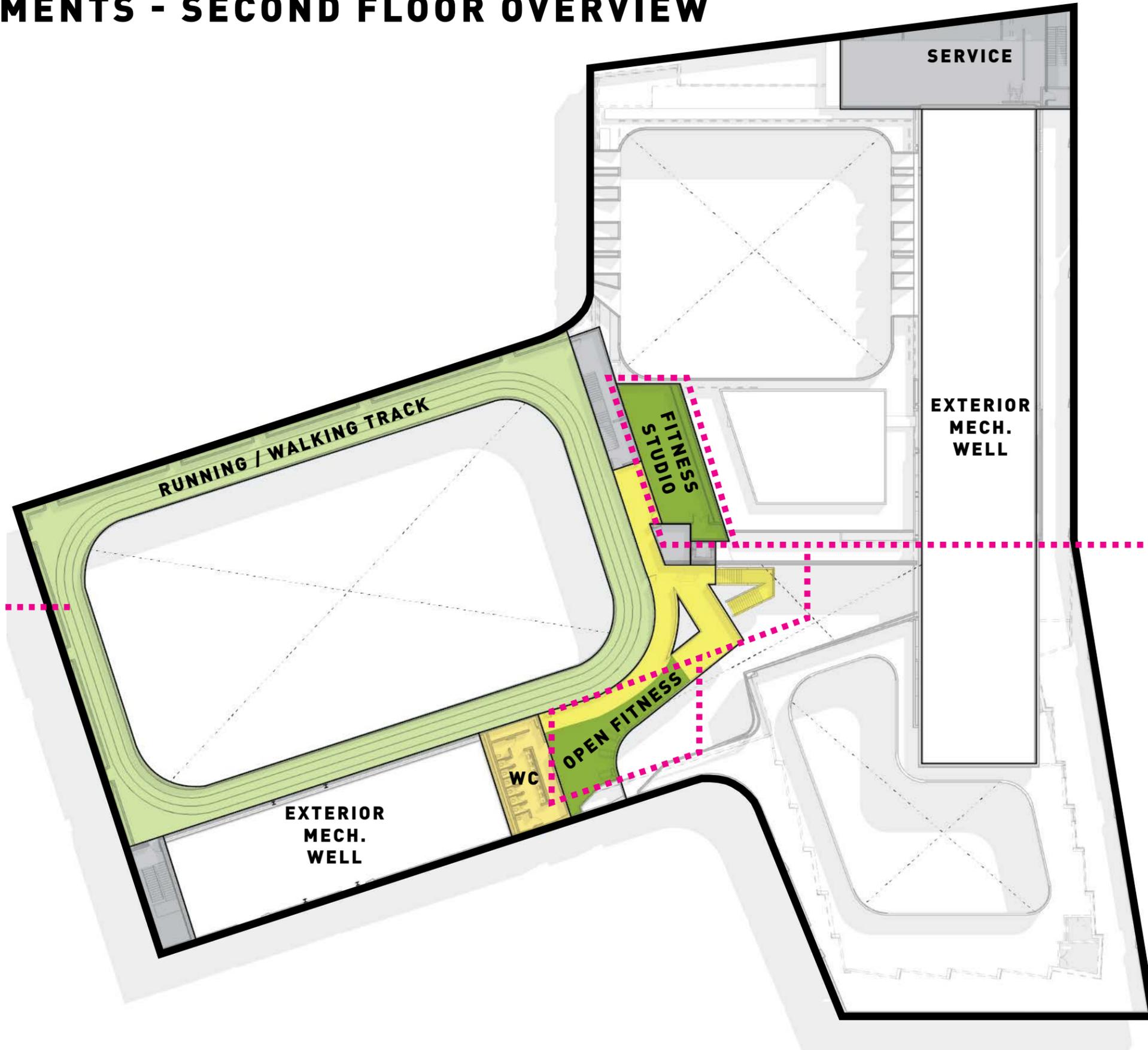
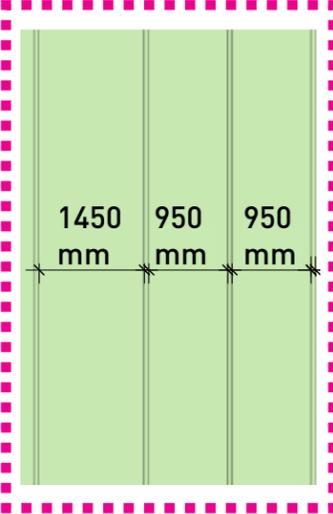
# APPENDIX

# COUNCIL COMMENTS - GROUND FLOOR OVERVIEW



# COUNCIL COMMENTS - SECOND FLOOR OVERVIEW

Outer track lane  
1450mm wide for  
passing



Space for exercise  
equipment provided  
at Open Fitness area  
and Fitness Studio

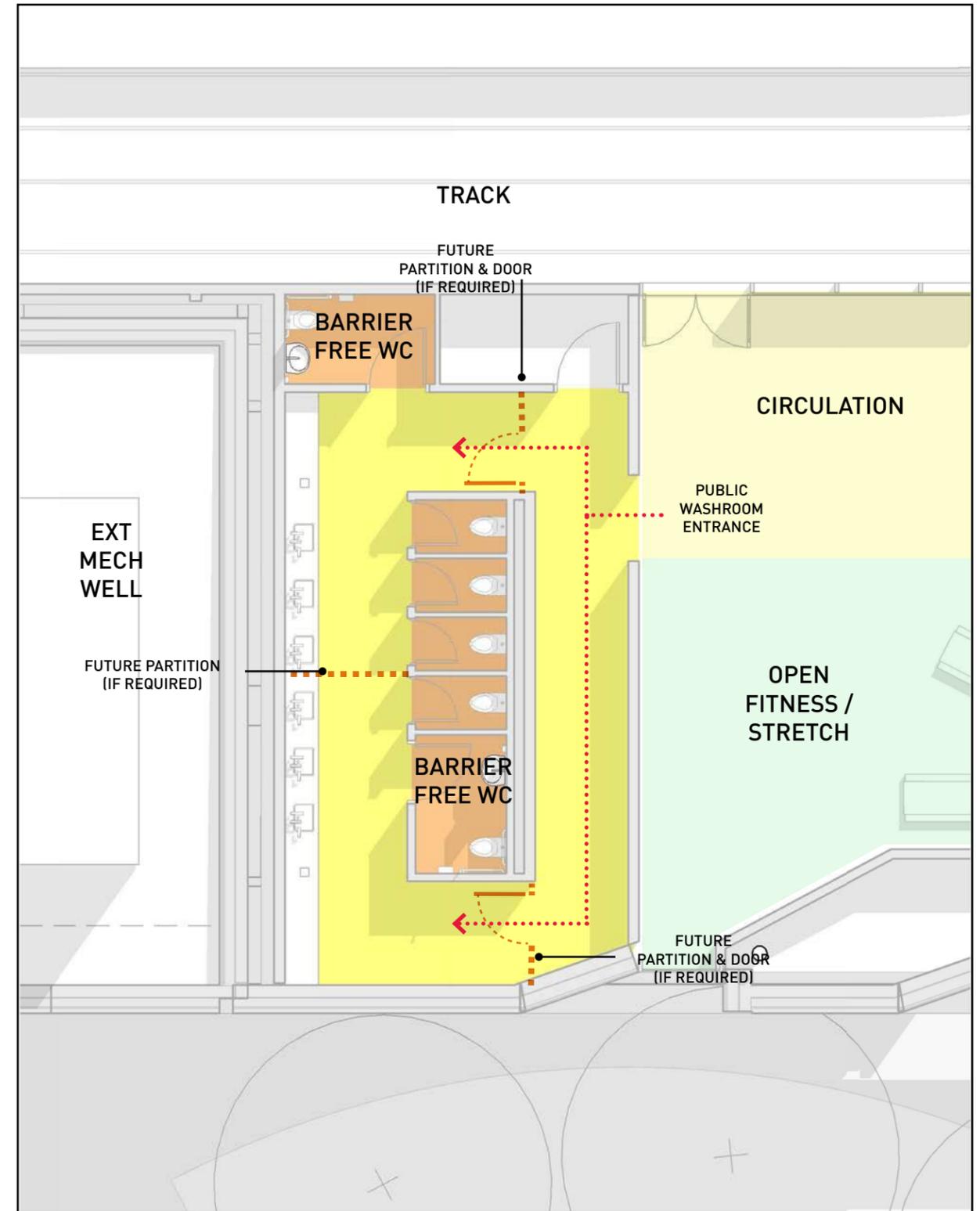
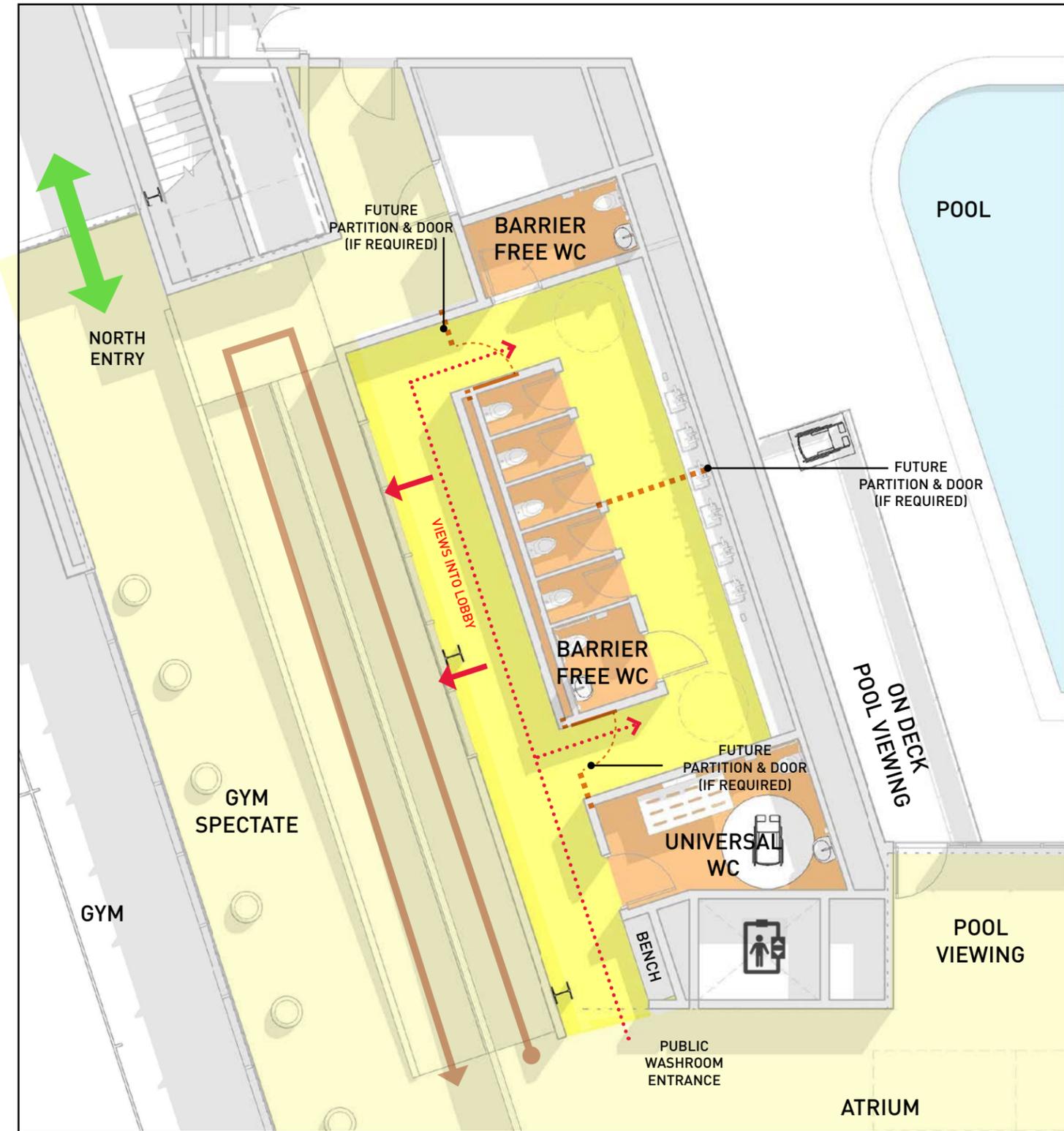
# COUNCIL COMMENTS - SITE PLAN OVERVIEW

- 1 Parking lot (382 spots)
- 2 Parking entrance plaza
- 3 Reading garden
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Area provided for food truck events

# UNIVERSAL WASHROOMS CONVERSION TO SEPARATE GENDERED ROOMS

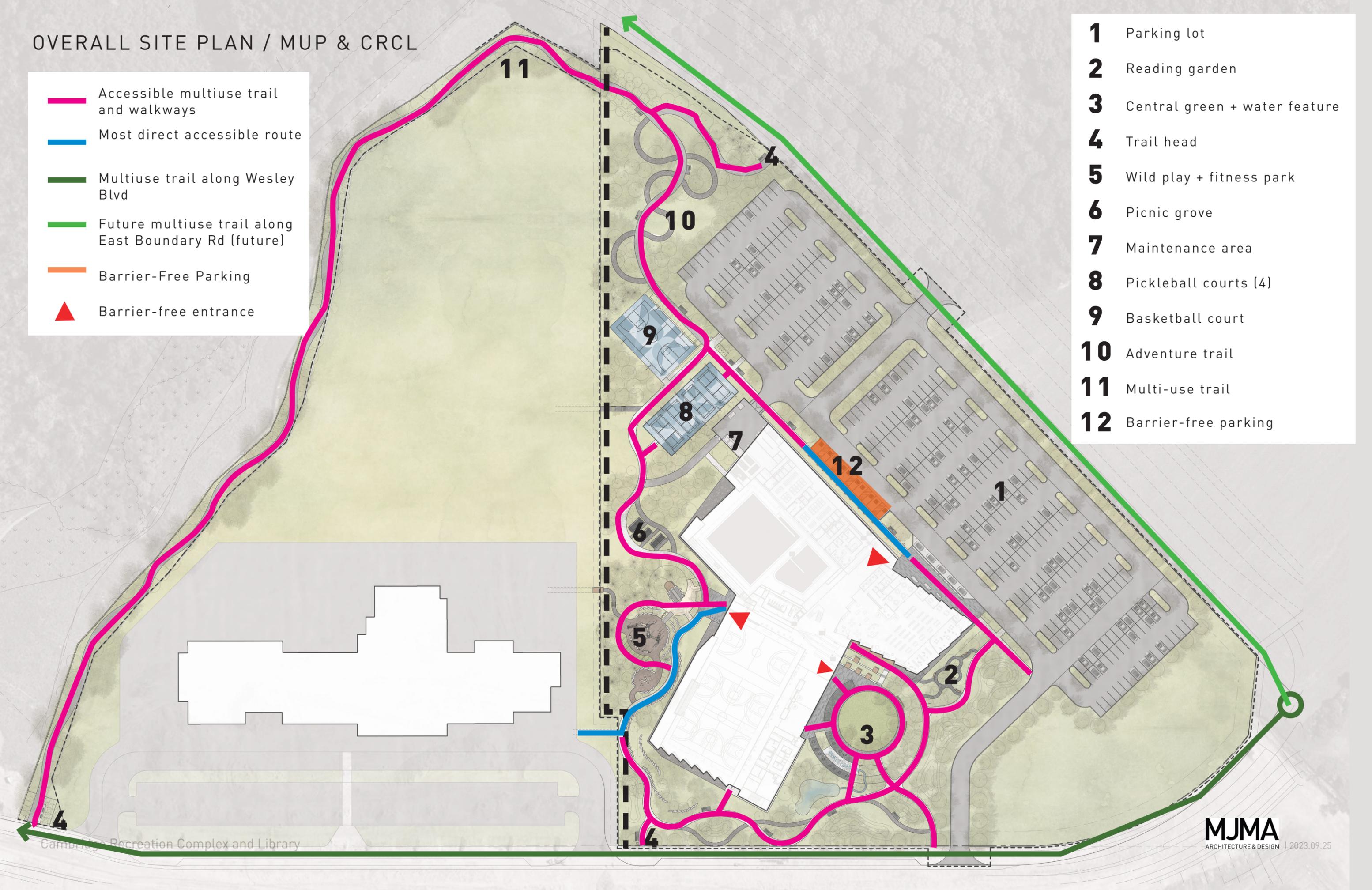


LEVEL 2 - PUBLIC WASHROOM

# OVERALL SITE PLAN / MUP & CRCL

-  Accessible multiuse trail and walkways
-  Most direct accessible route
-  Multiuse trail along Wesley Blvd
-  Future multiuse trail along East Boundary Rd (future)
-  Barrier-Free Parking
-  Barrier-free entrance

- 1** Parking lot
- 2** Reading garden
- 3** Central green + water feature
- 4** Trail head
- 5** Wild play + fitness park
- 6** Picnic grove
- 7** Maintenance area
- 8** Pickleball courts (4)
- 9** Basketball court
- 10** Adventure trail
- 11** Multi-use trail
- 12** Barrier-free parking



# ATRIUM OVERVIEW

