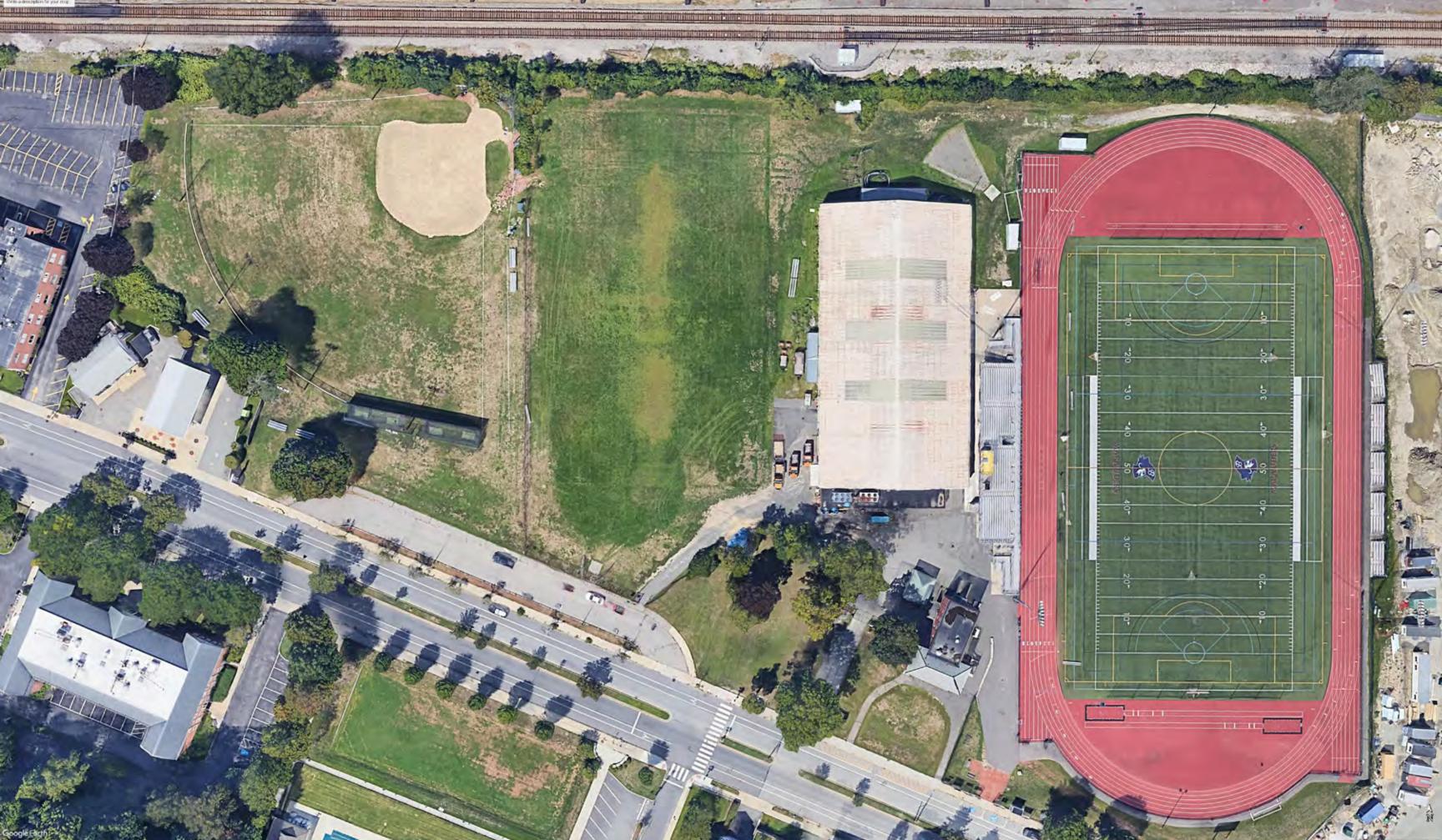
Belmont Ice Rink

Feasibility Study

July 6th, 2022



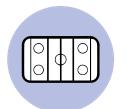




Skip Viglirolo Skating Rink

Built in 1969 Completed in 1971

Thousands of young people participate in Youth Hockey programs High School Varsity and JV Hockey programs Middlesex League titles Appearances at MIAA Division I state tournaments Champions 2020













Spectator Seating









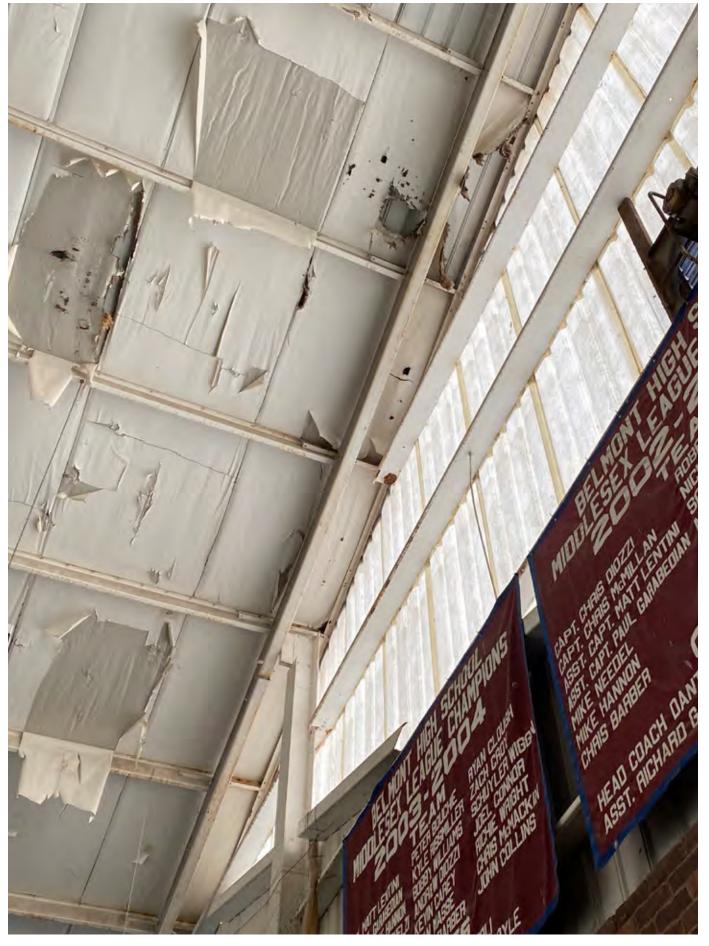


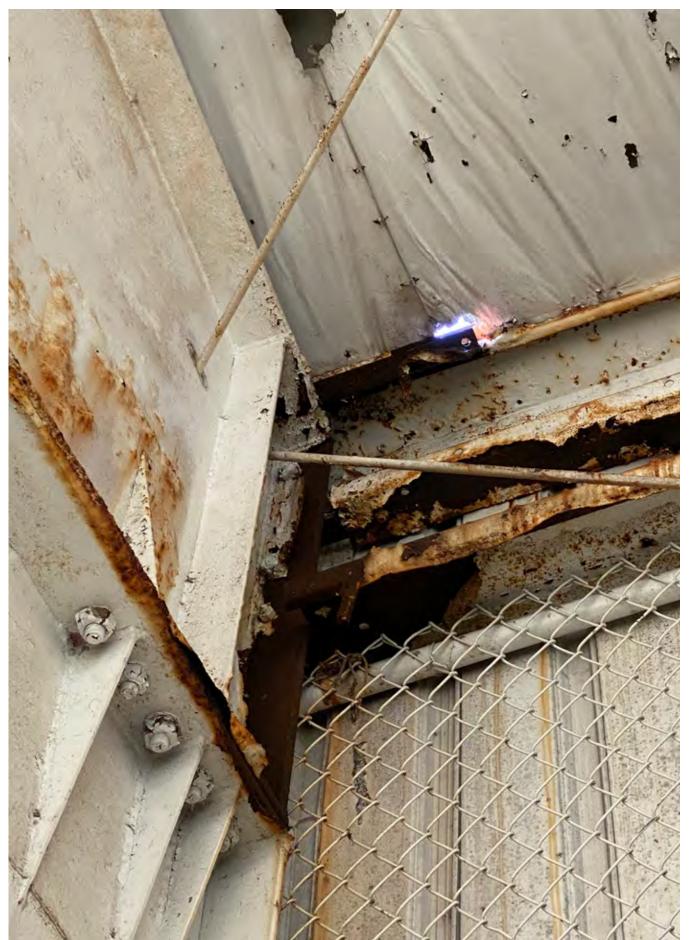
Storage











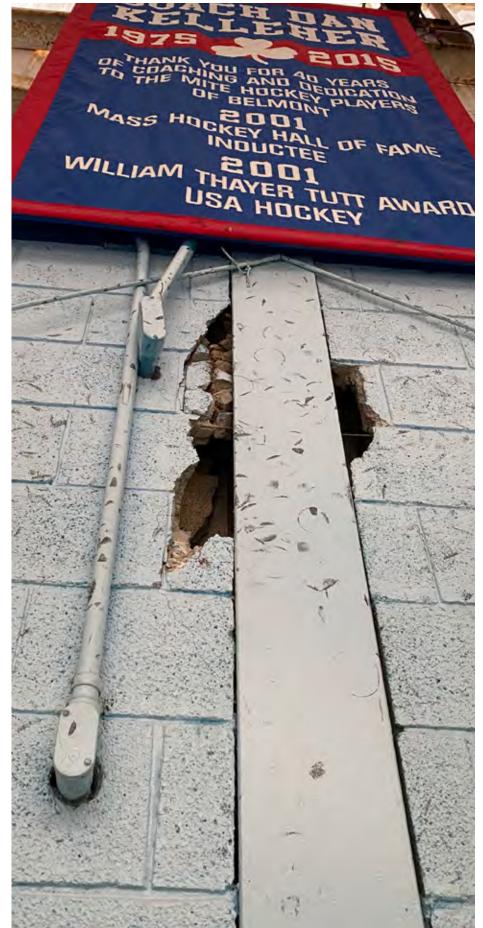
- Building not insulated
- Roof leaks
- Rusted structure











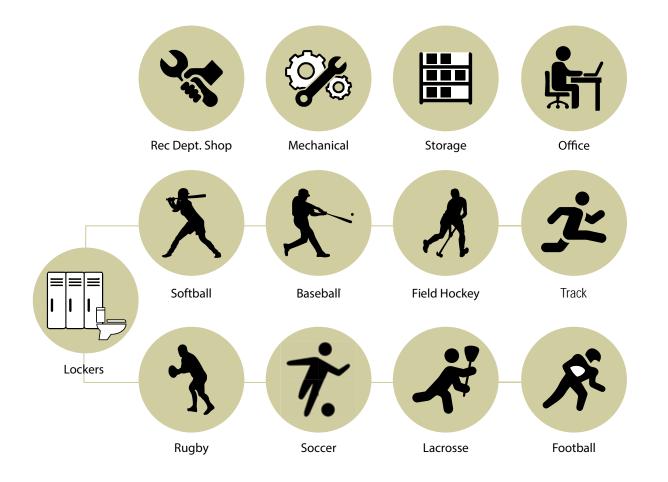
- Envelope compromised
- Energy inefficiency
- Non-ADA compliant
- Non-MAAB compliant
- Walls crumbling





James White Memorial Field House

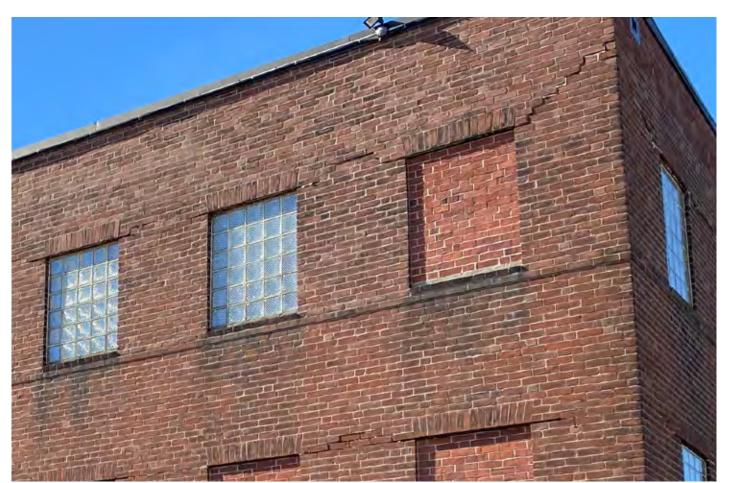
Built in 1932

















- Extensive cracked masonry
- Roof failure
- Broken glass windows
- Non-ADA compliant
- Hazardous entry











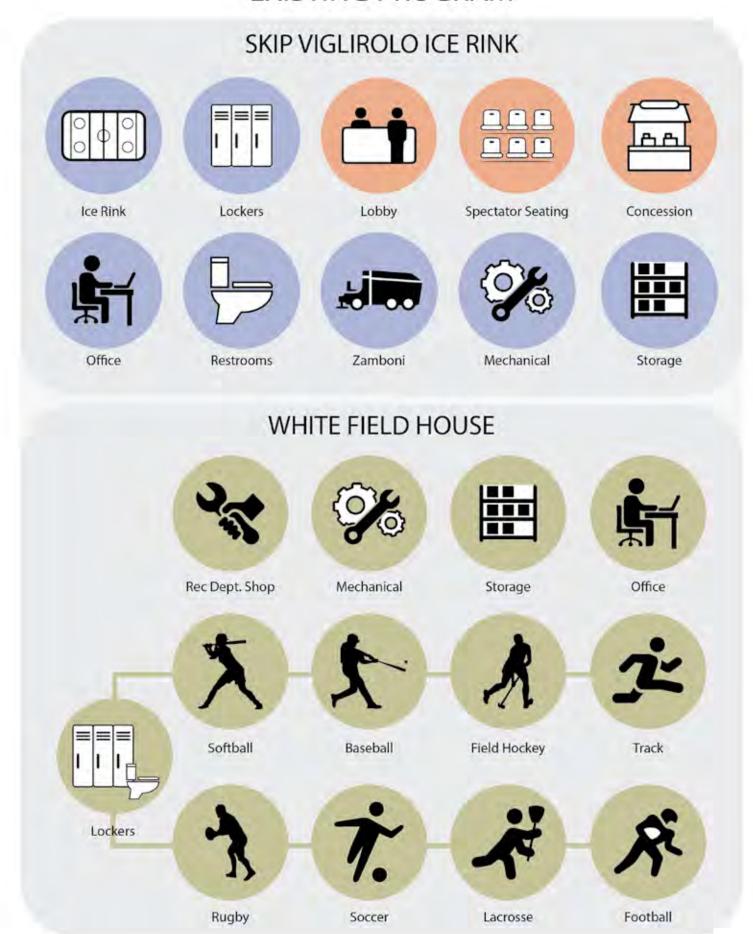
- Compromised egress
- Non-ADA compliant
- Equipment obsolete





Program Overview

EXISTING PROGRAM

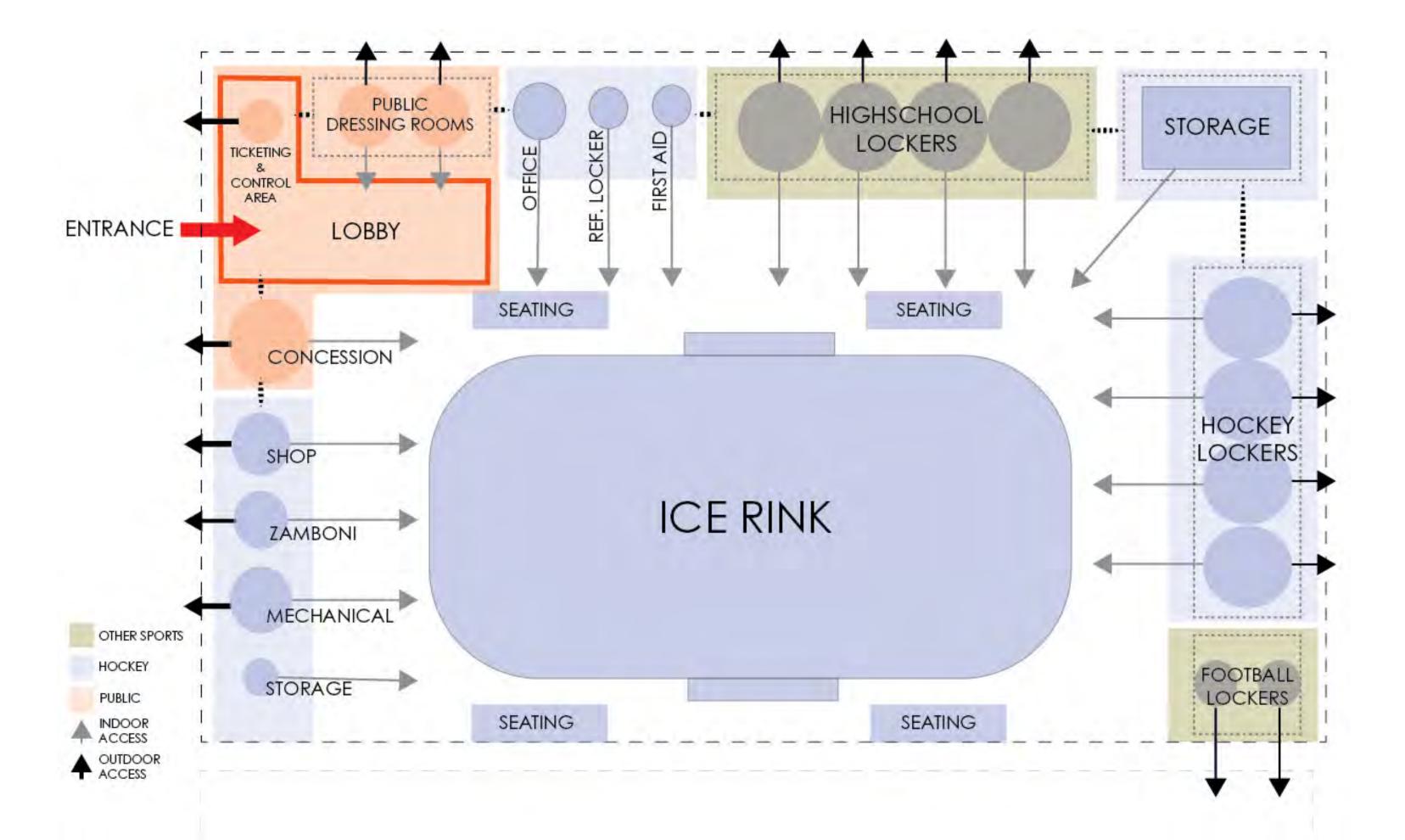


NEW PROGRAM













Site and Field Layout





Existing Site Plan





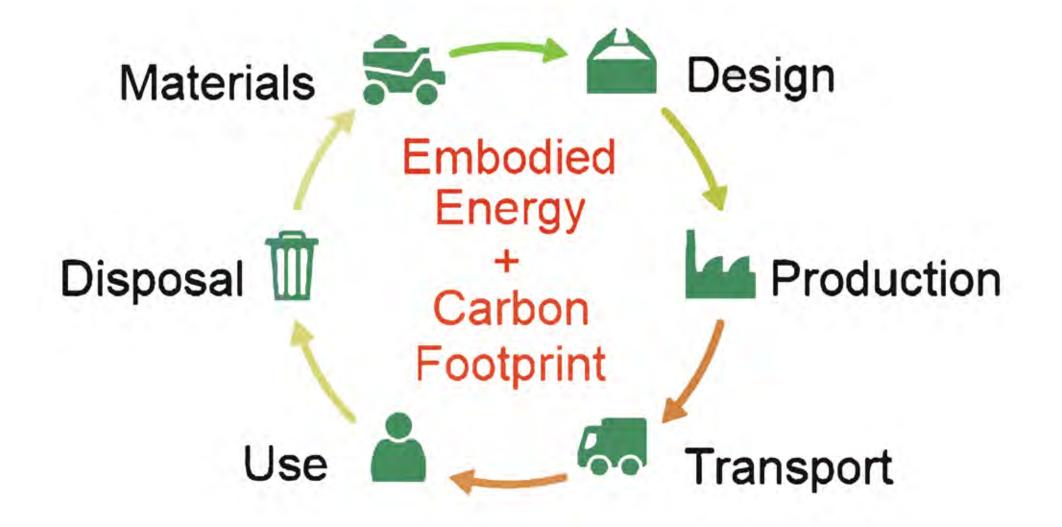


Renovate and Expand



Net-Zero Energy Goal

Potential for Town Wide Net Zero Approach







Embodied Energy









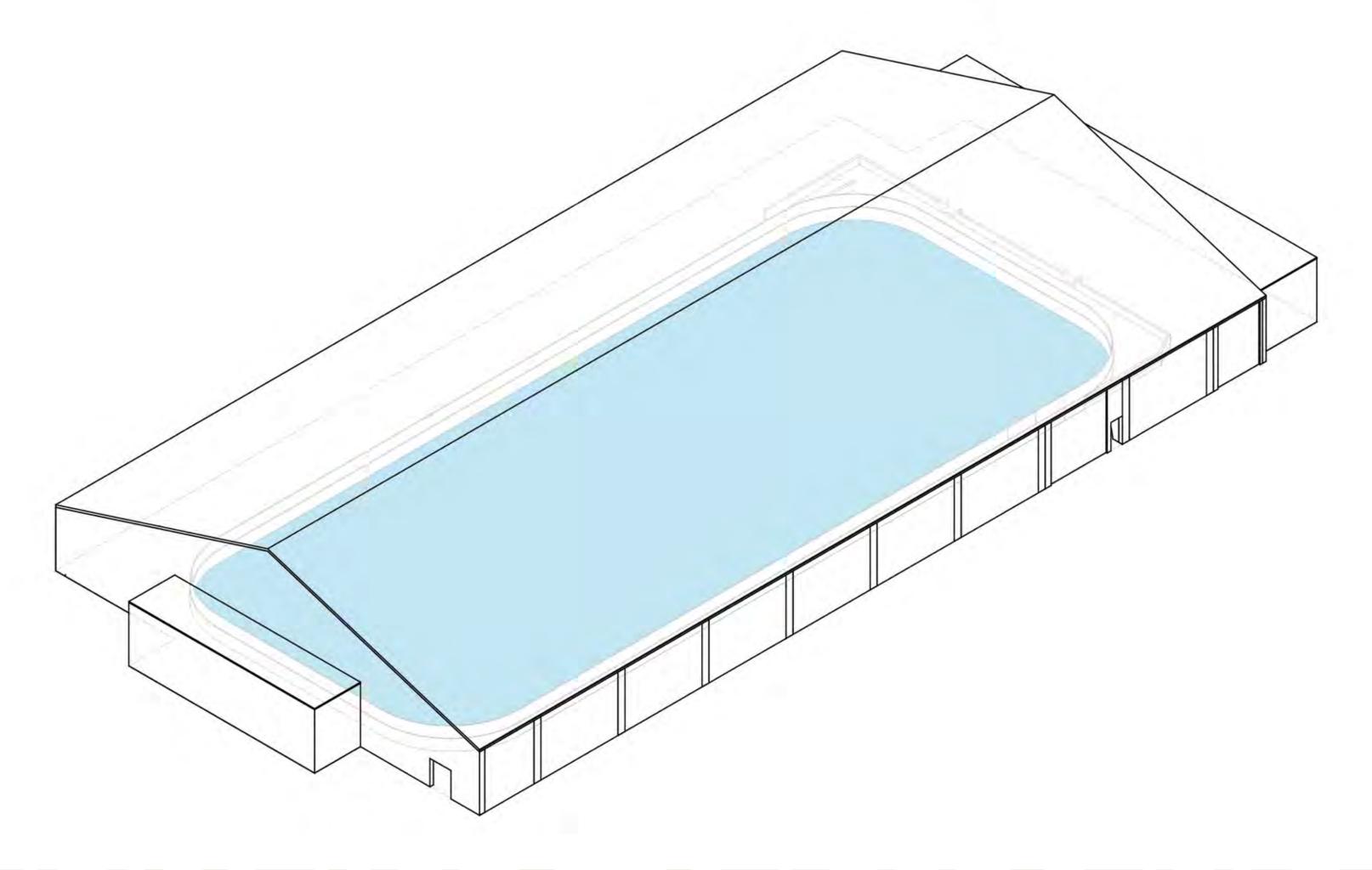




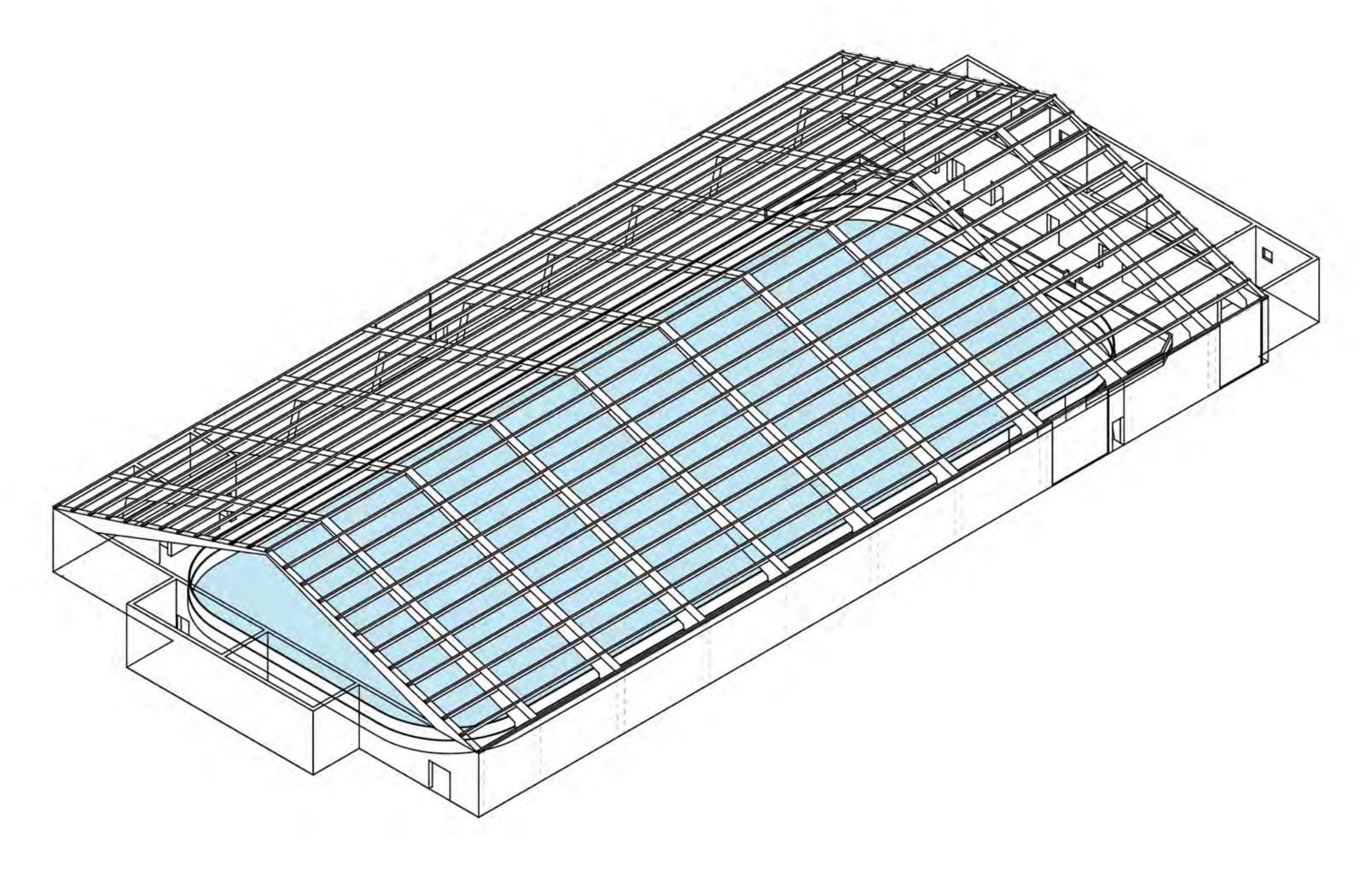






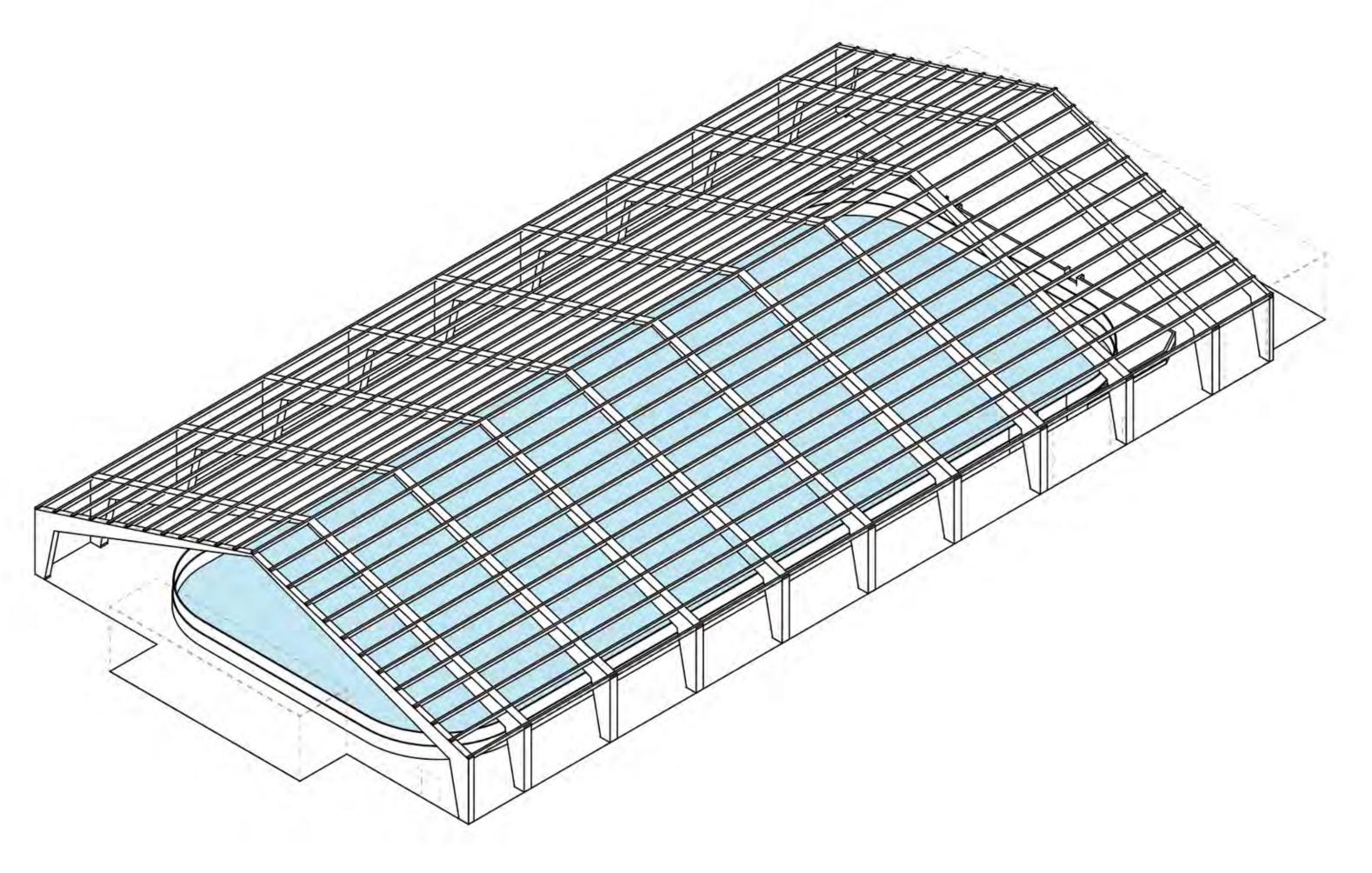


TIE GALANTE ARCHITECTURE STUDIO ROOF





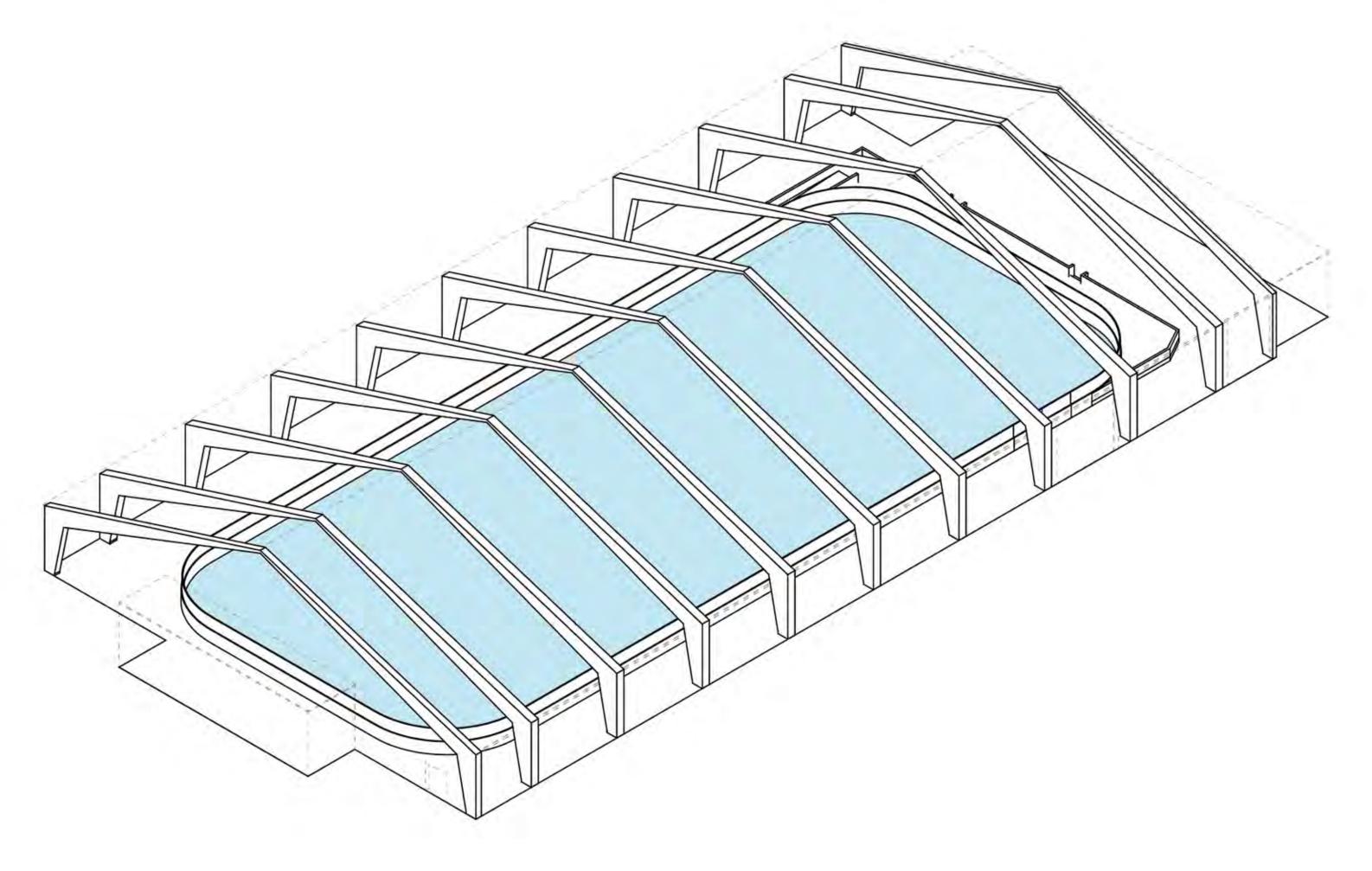






Purlins



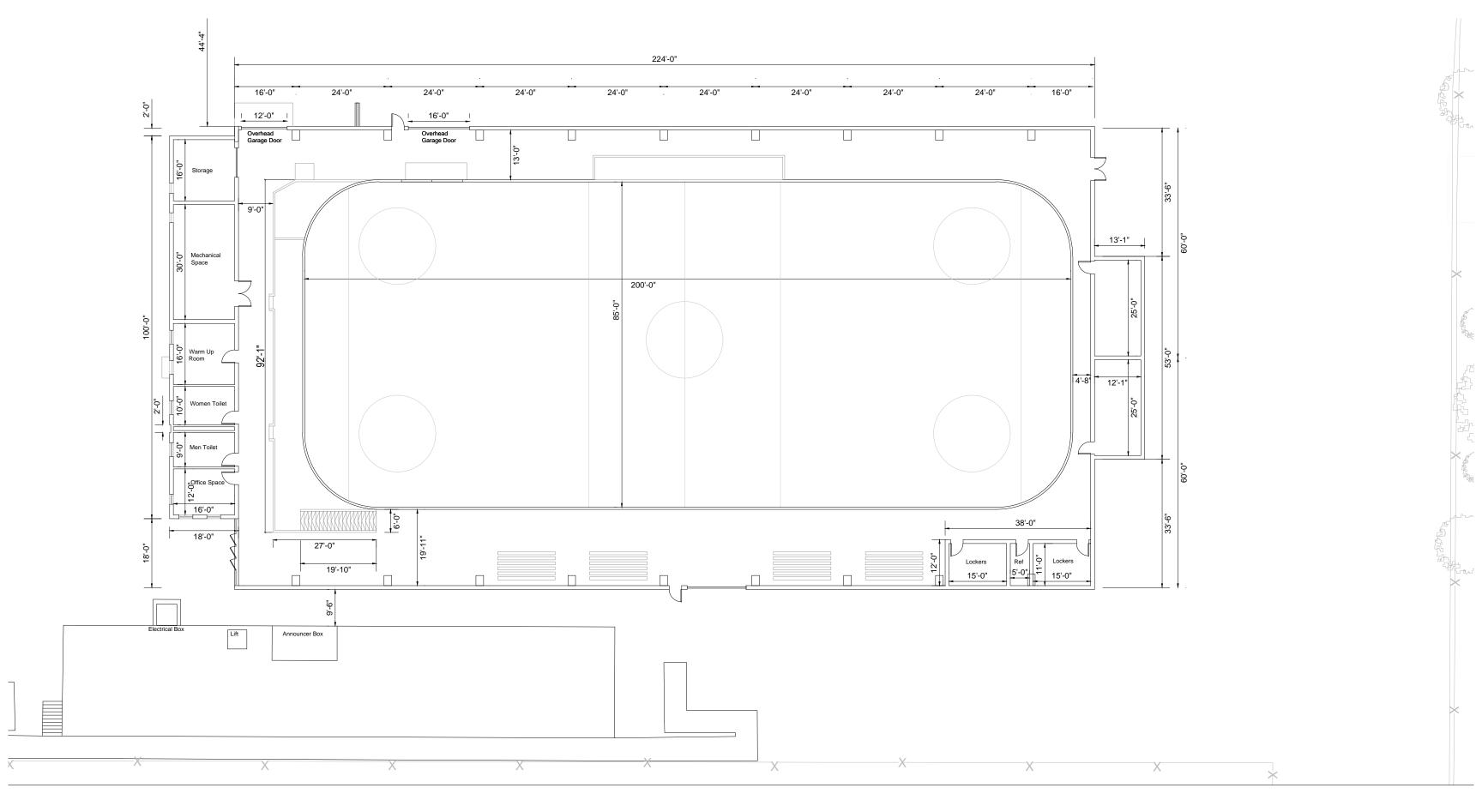




Bents

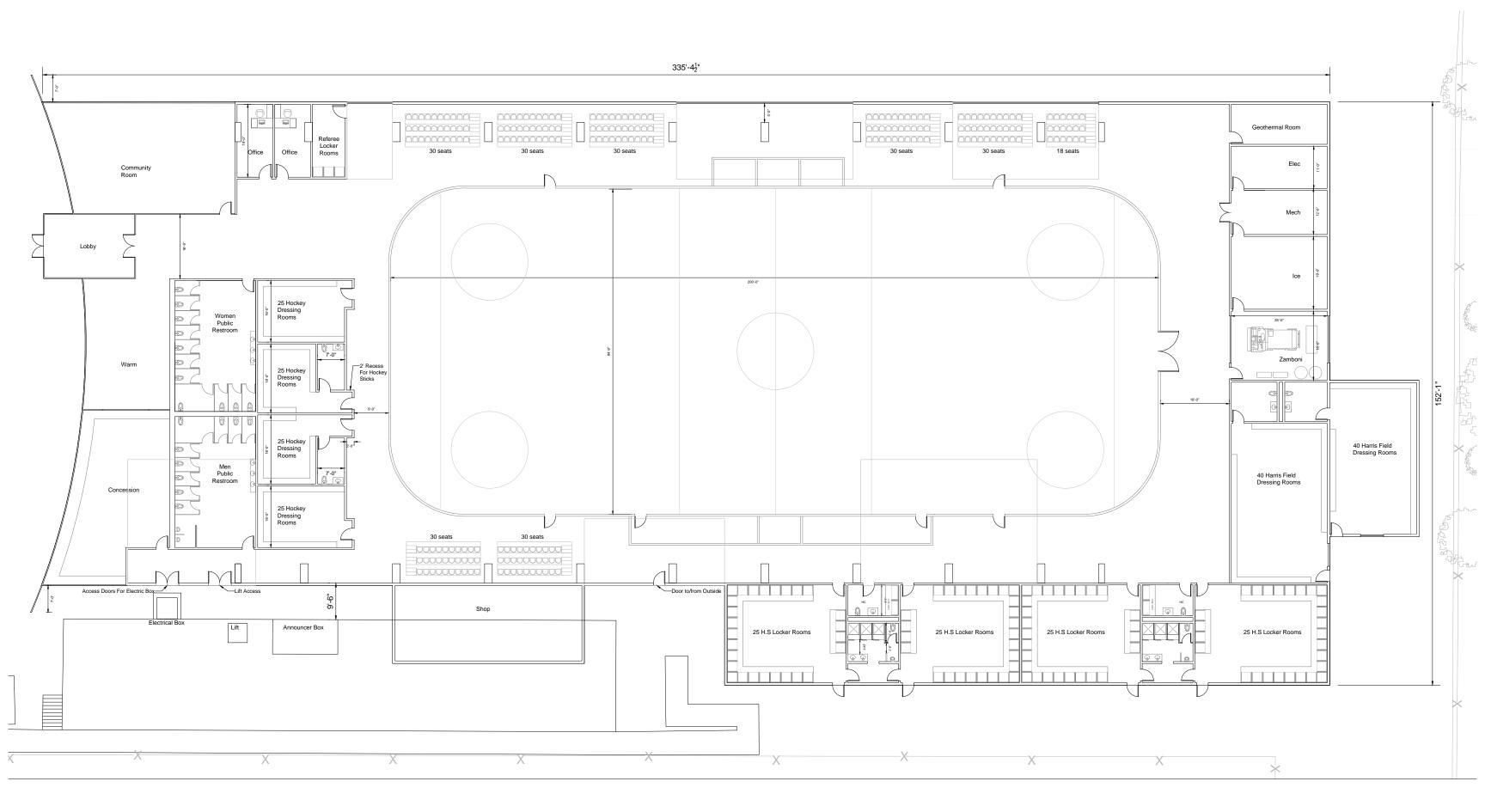


Renovate and Expand



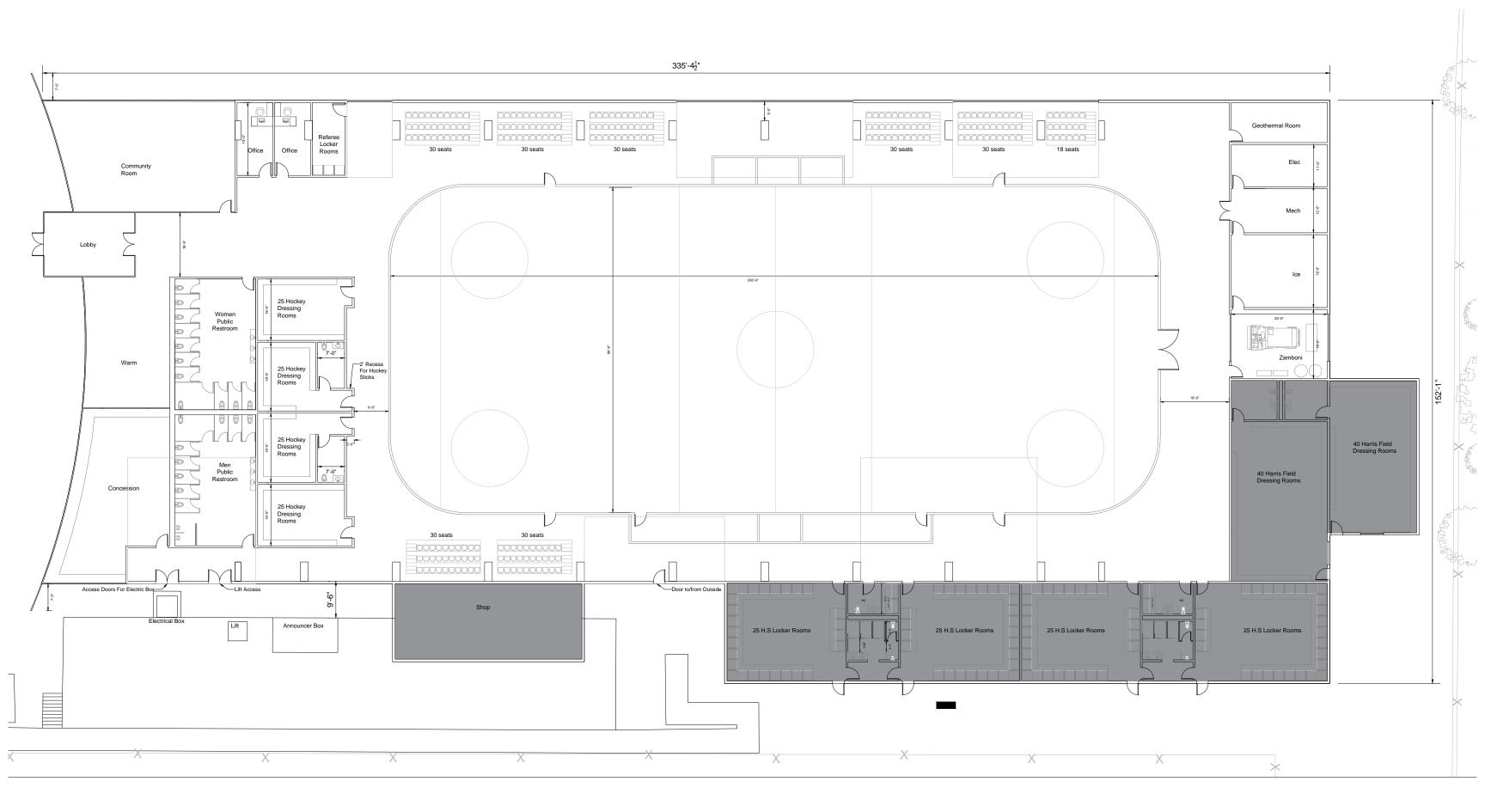






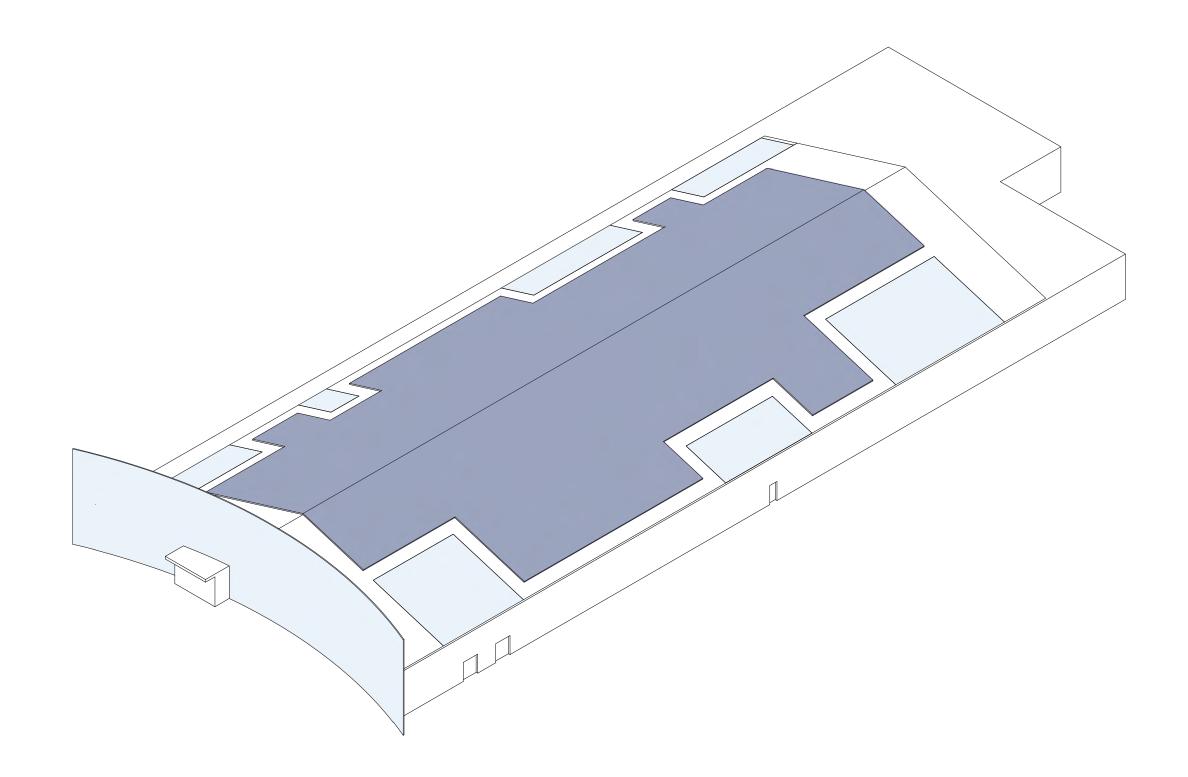






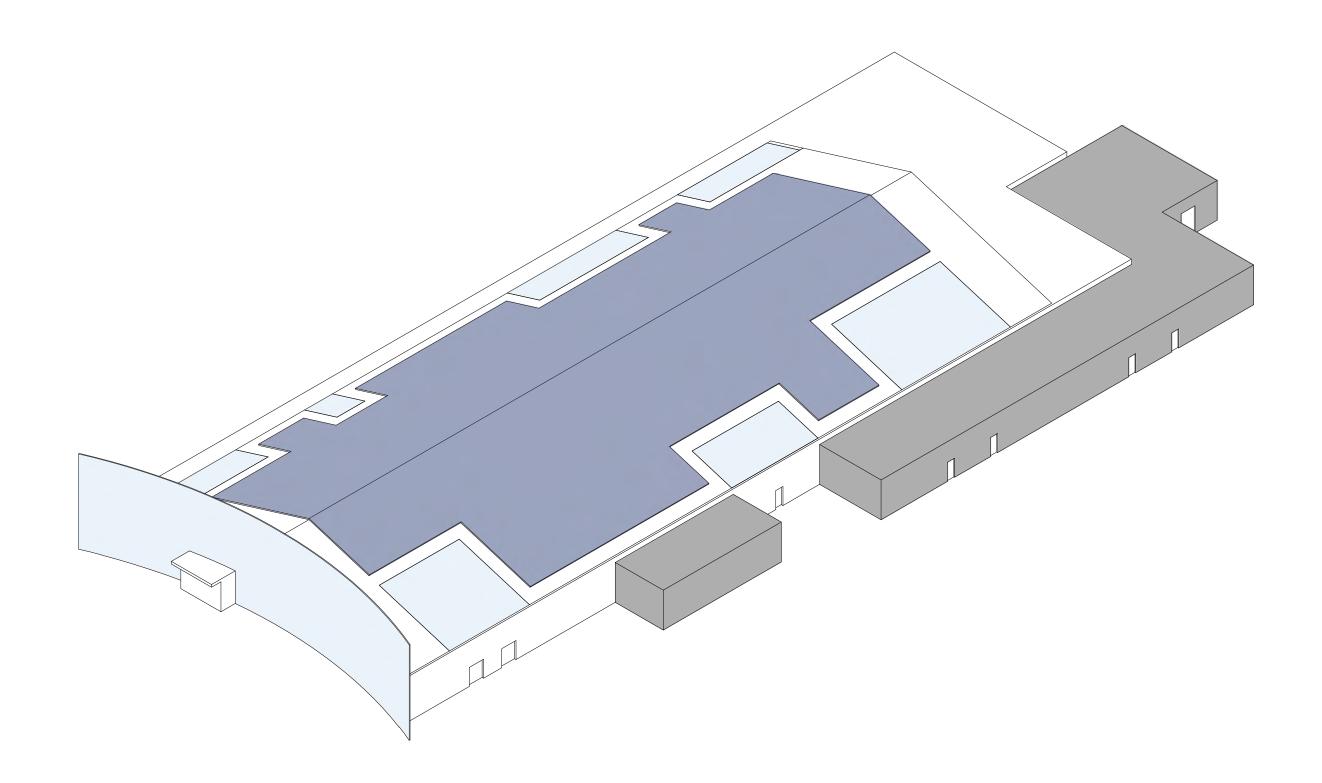






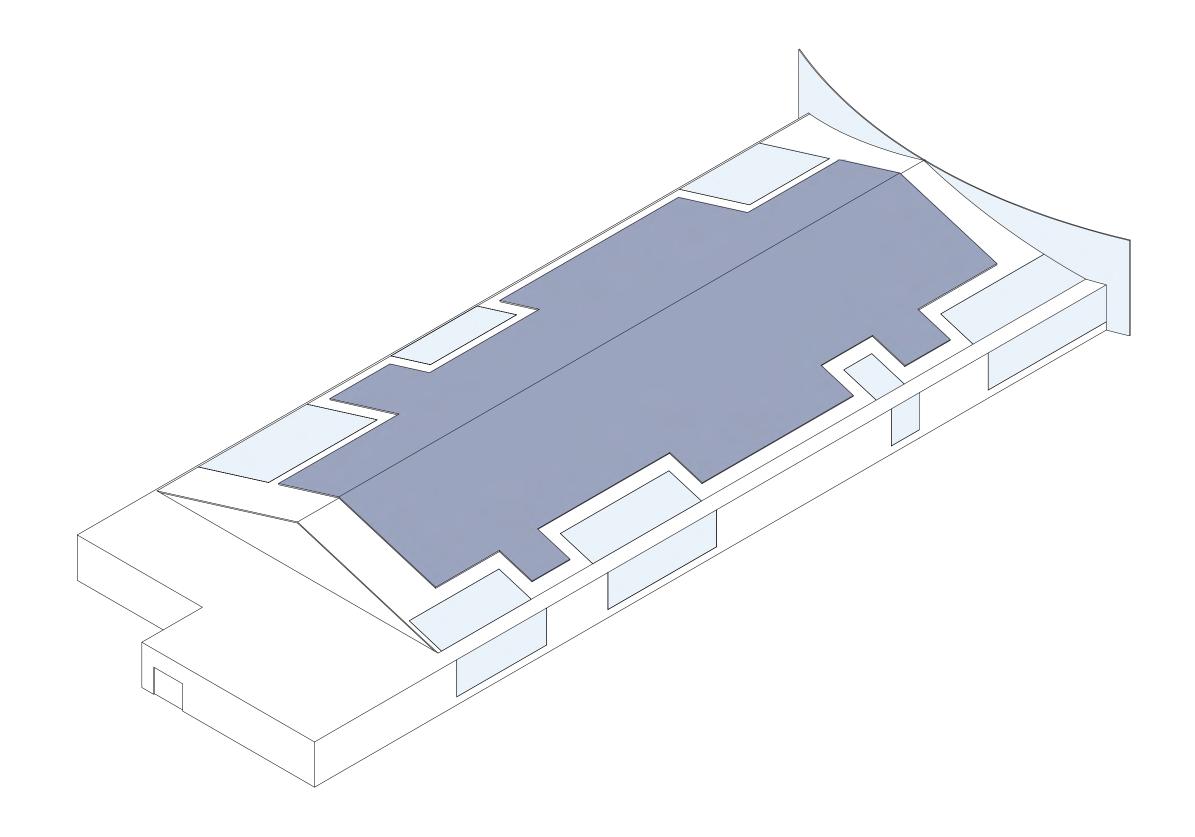






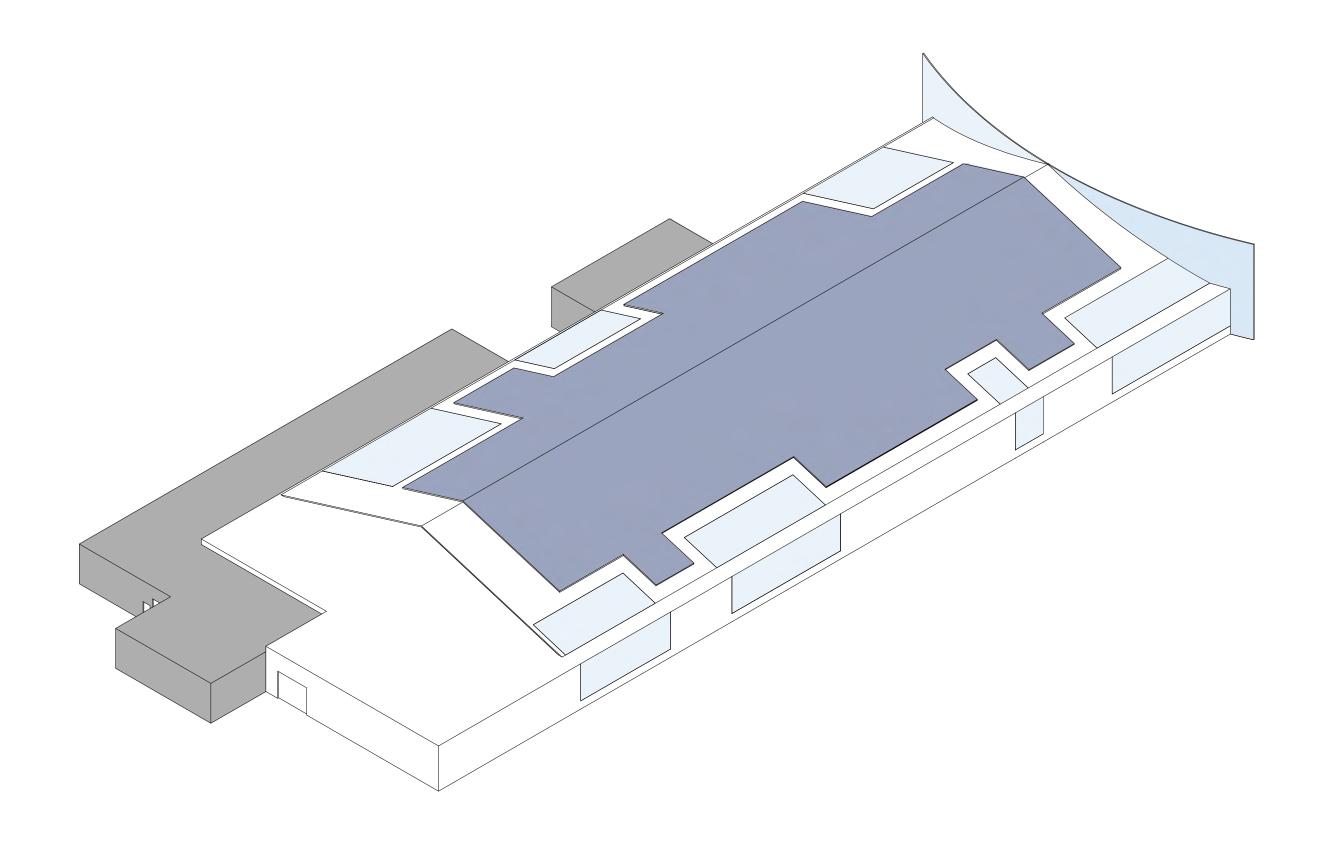






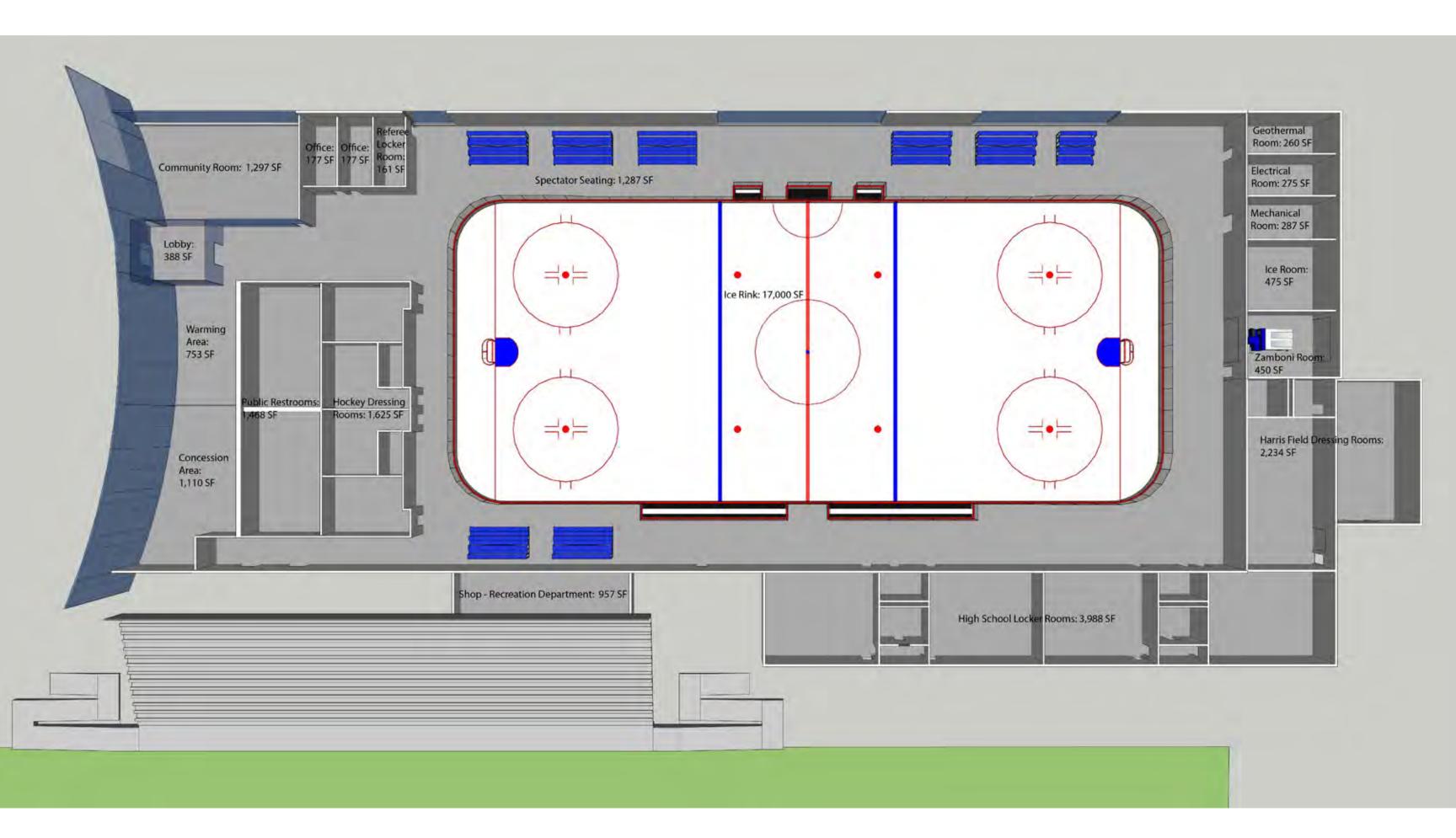






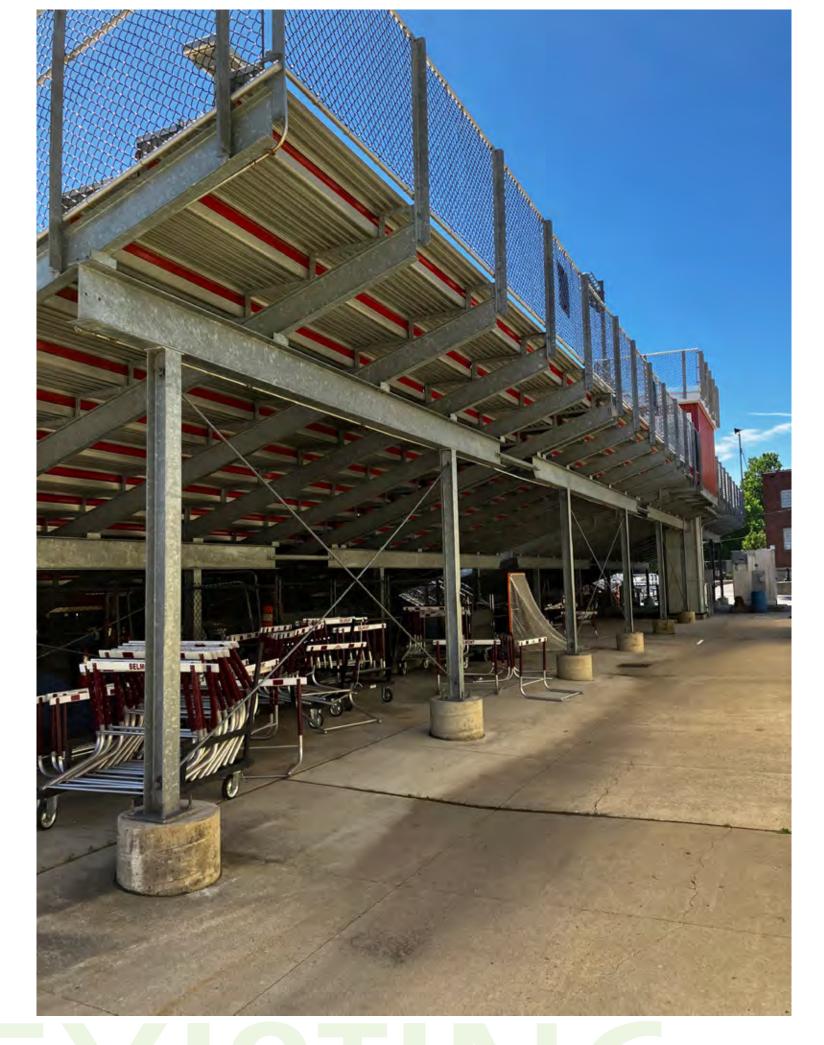


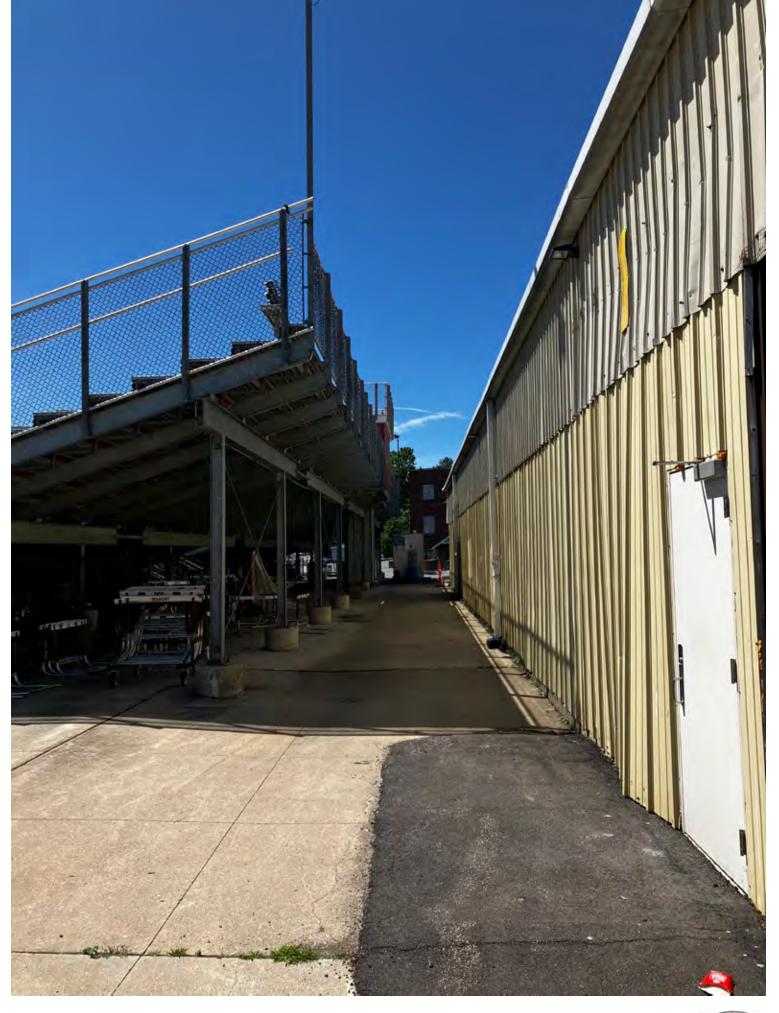






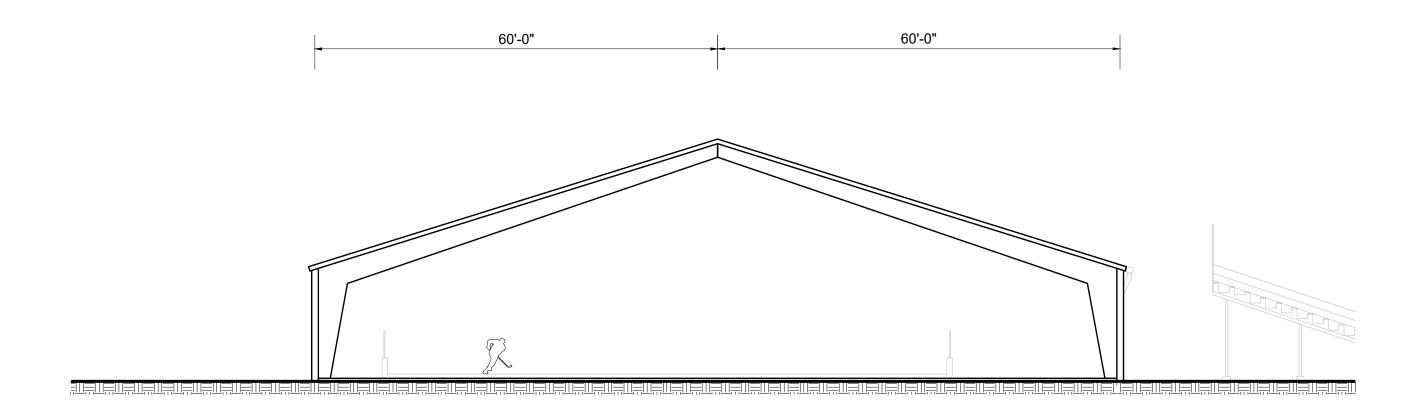






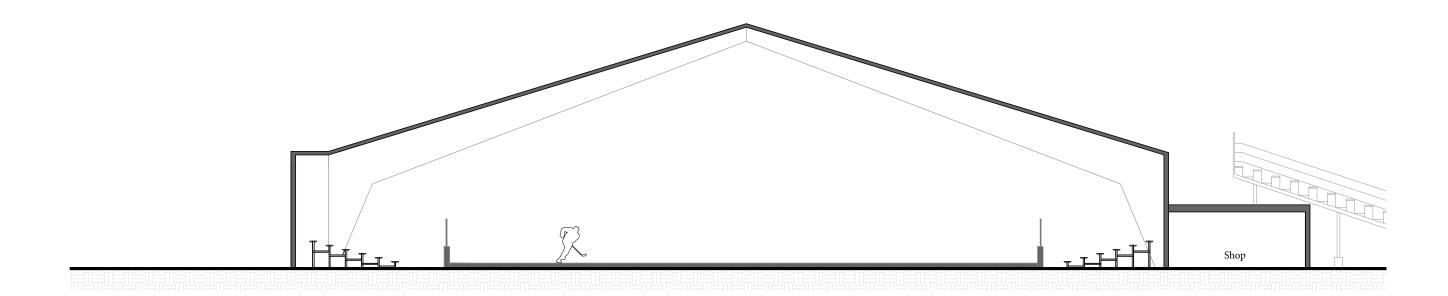






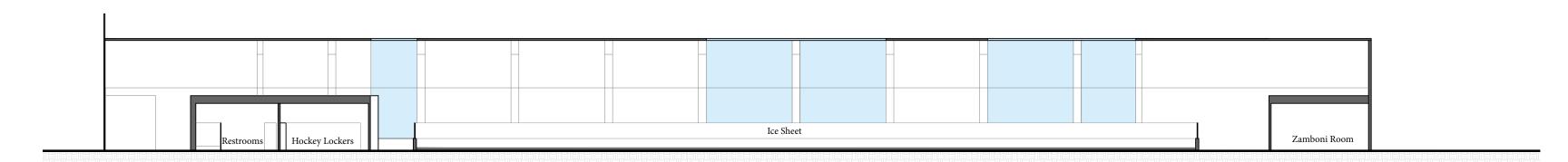


























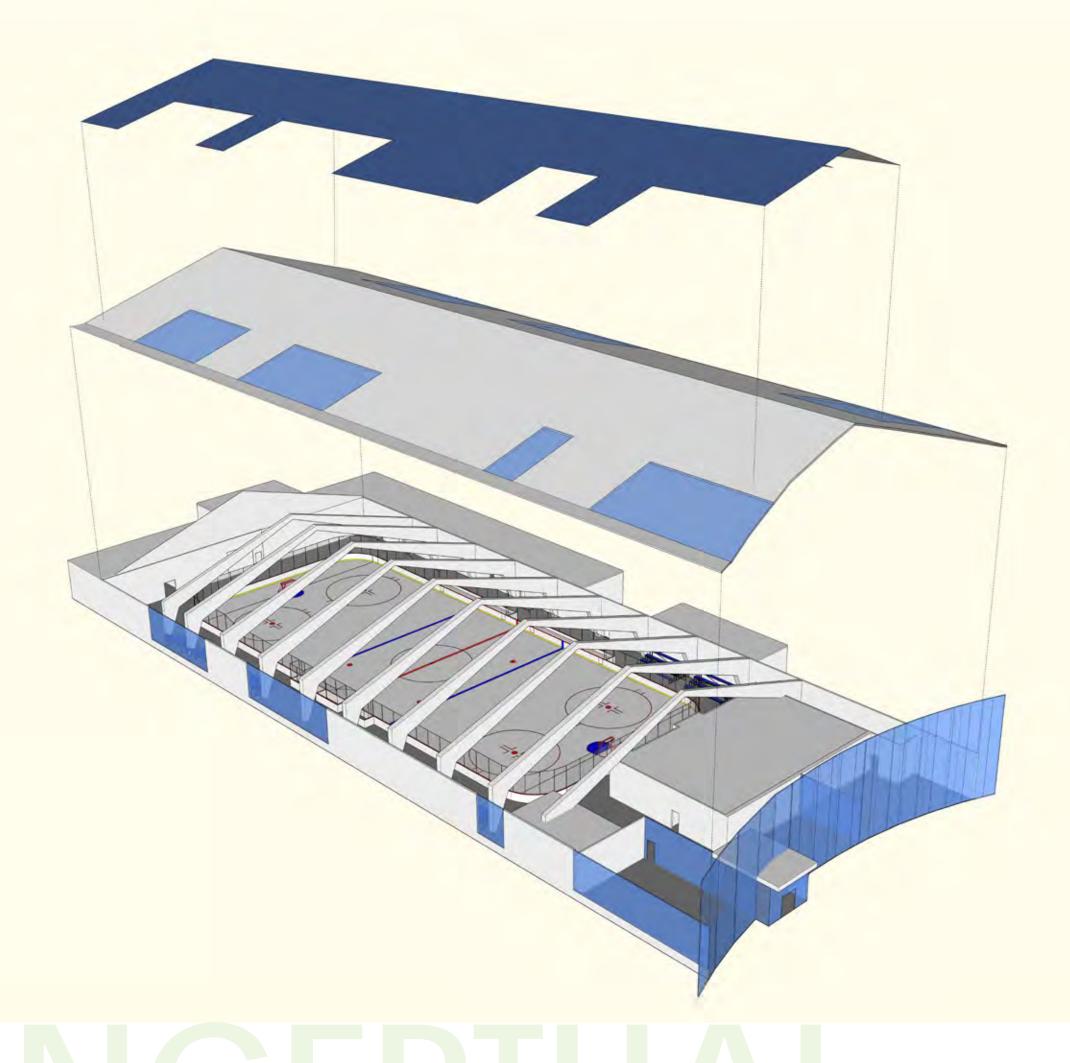












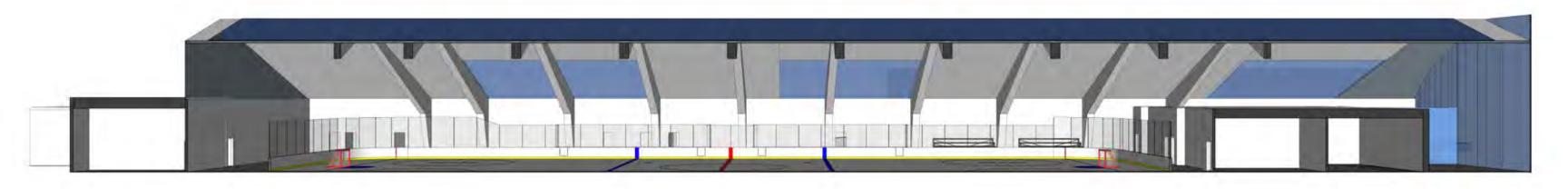












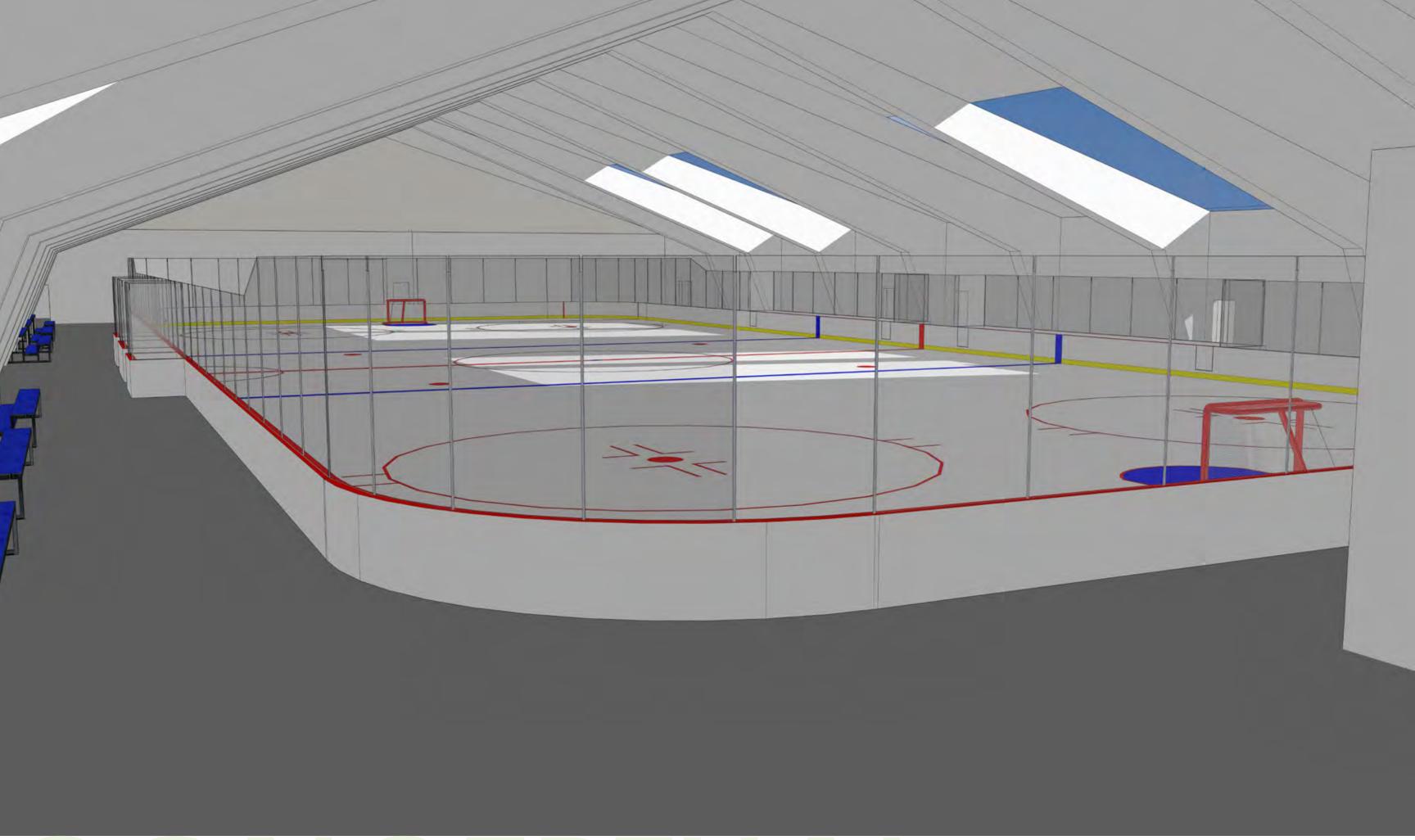






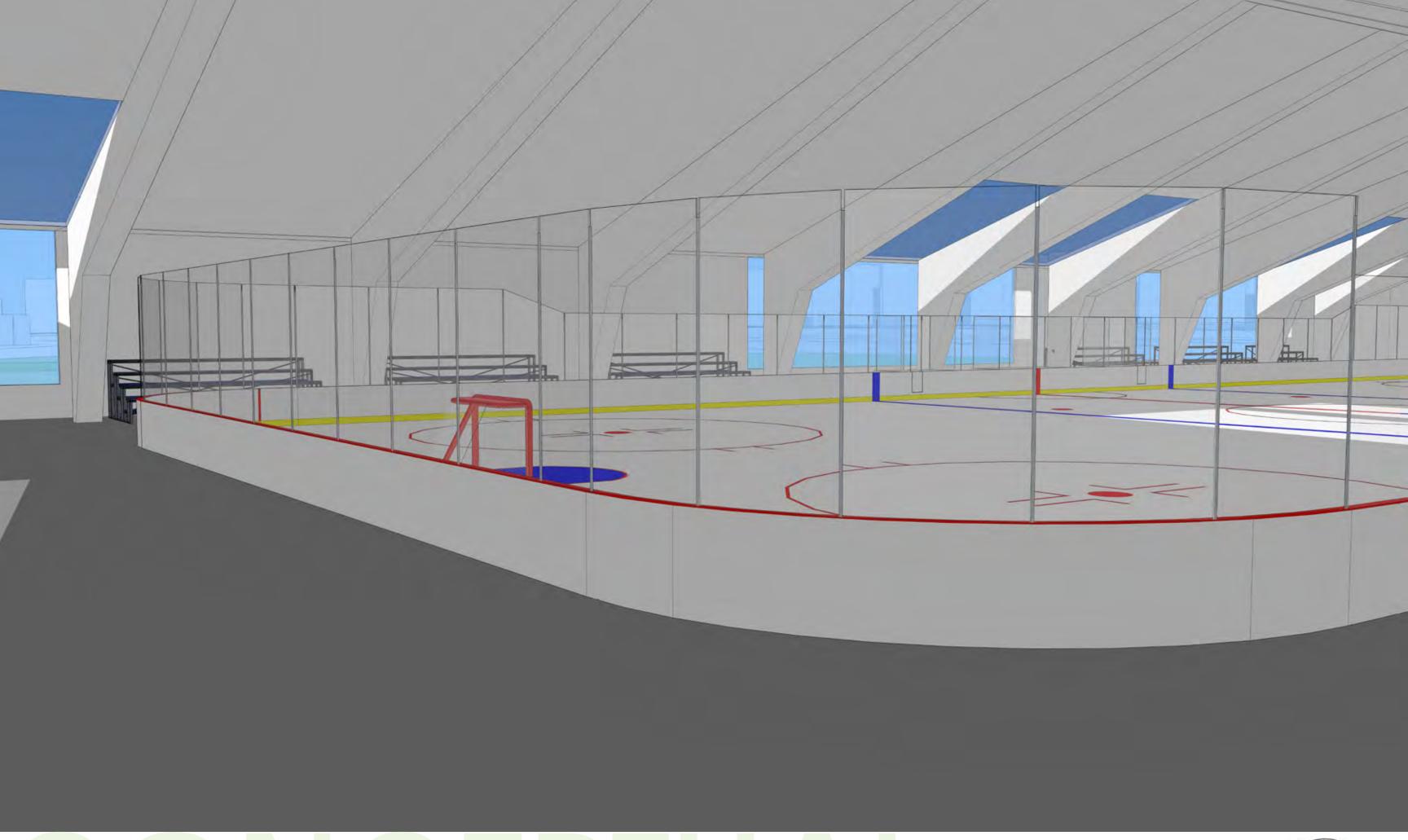






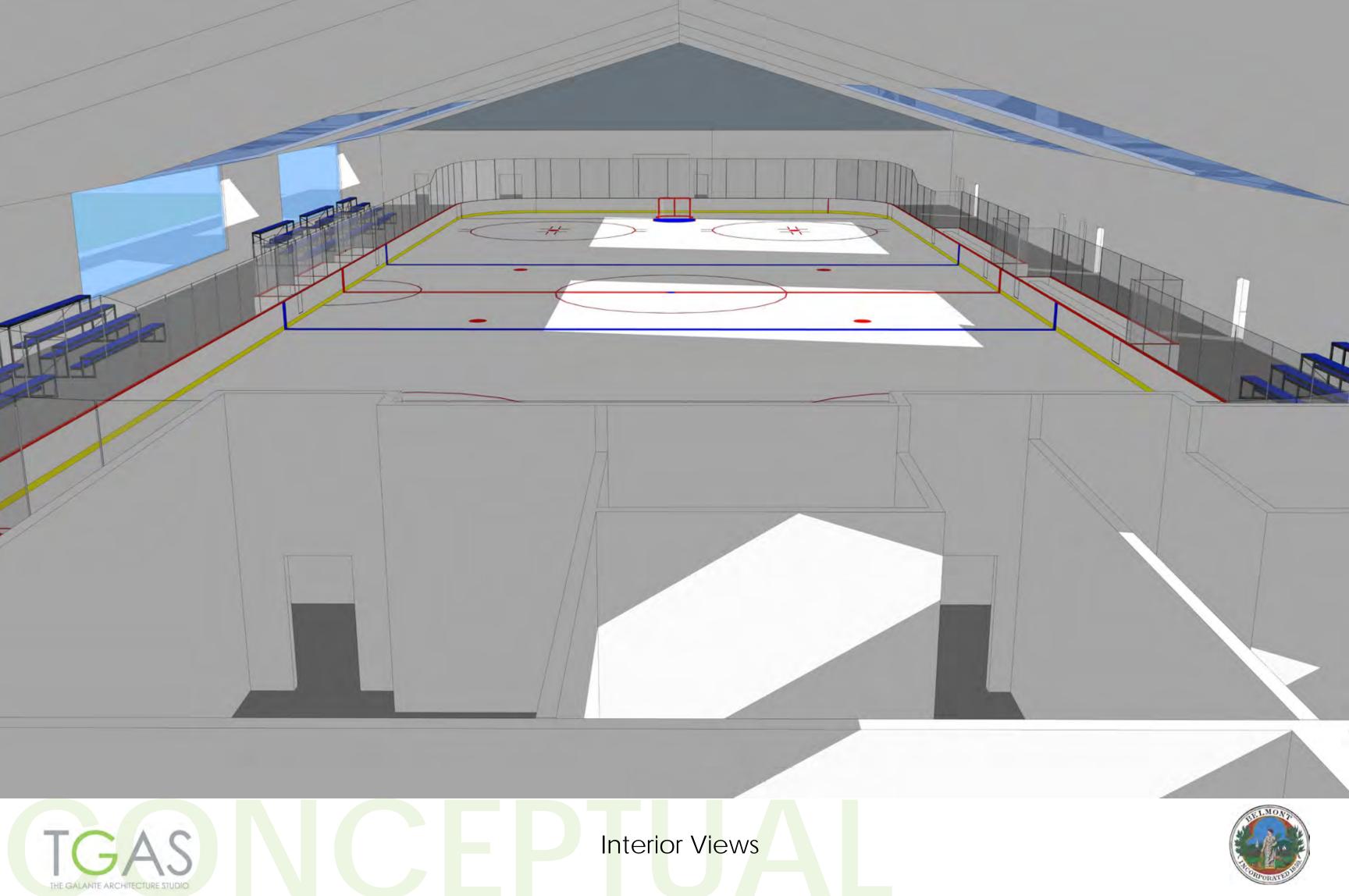


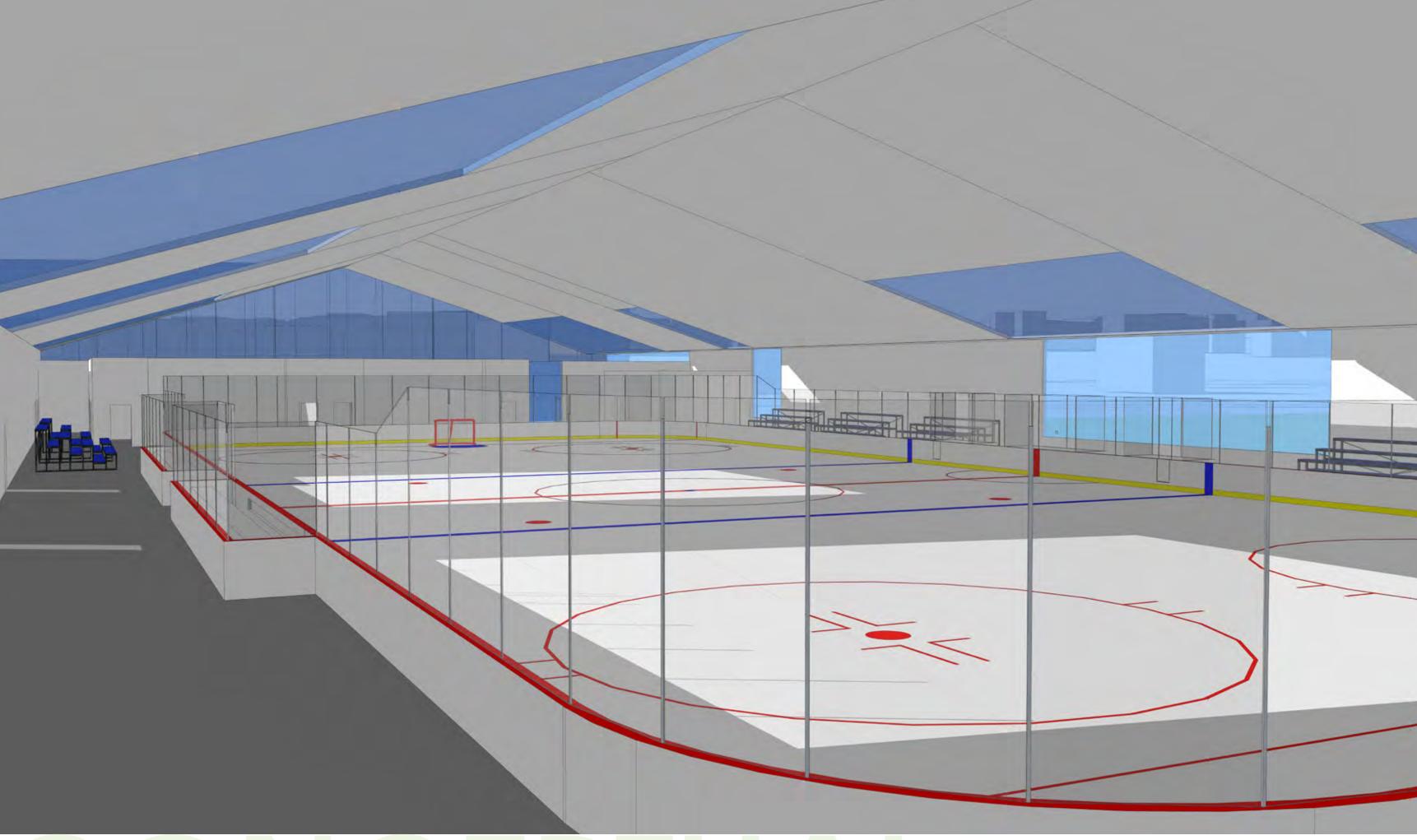
















Parking Regulations Analysis and Site Layout

1. Parking per Hockey Game

a. Players:

18 Players / team x 2 teams = 36 Players

Per code: 1 parking space per 2 person participant capacity

$$\frac{36 \text{ players}}{2 \text{ per each}}$$
 = 18 Player Parking Spaces

b. Administration

2 Referees + 2 Coaches + 2 Office = 6 Officials

Per code: 1 parking space per 2 person participant capacity

$$\frac{6 \text{ officials}}{2 \text{ per each}}$$
 = 3 Administration Parking Spaces

c. Spectators

200 Spectators

Per Code: 1 parking space per 3 person spectator capacity

$$\frac{200 \text{ spectators}}{3 \text{ per each}}$$
 = 67 Spectator Parking Spaces / Game

d. Total (a + b + c)

18 Player Parking Spaces + 3 Administration Parking Spaces + 67 Spectator Parking Spaces

= 88 Required Parking Spaces / Hockey Game





2. Parking per High School Games - ASSUMED

i. Baseball or Softball: 2 teams of 9 players each. The number of players may vary from 15-20 players (per team) + total 3 umpires and 2 coaches

ii. Soccer: 2 teams of **11 players (per team) + 4 referees**, the head referee, two assistant referees and a fourth official.

iv. Shot put: ?

v. Discus: ?

Assuming the biggest number of people per game is Baseball:

a. Players:

20 Players / team x 2 teams = 40 Players

Per code: 1 parking space per 2 person participant capacity

 $\frac{40 \text{ players}}{2 \text{ per each}}$ = 20 Player Parking Spaces

b. Administration

3 Umpires + 2 Coaches = 5 Officials

Per code: 1 parking space per 2 person participant capacity

 $\frac{5 \text{ officials}}{2 \text{ per each}} = 3 \text{ Administration}$

c. Spectators

??

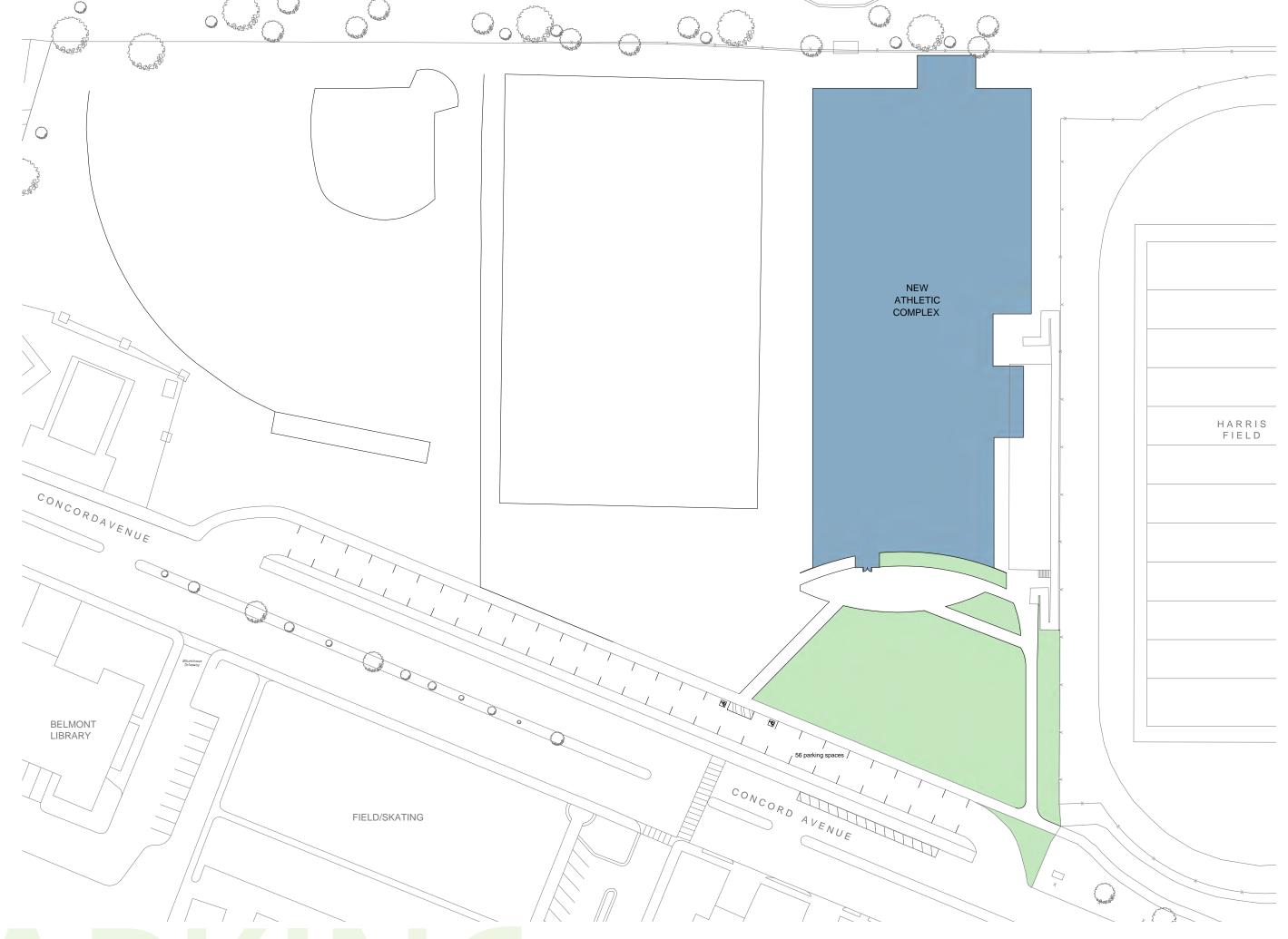
\underline{d} . Total ($\underline{a} + \underline{b} + \underline{c}$)

20 Player Parking Spaces + 3 Administration Parking Spaces

= 23 Required Parking Spaces / High School Game

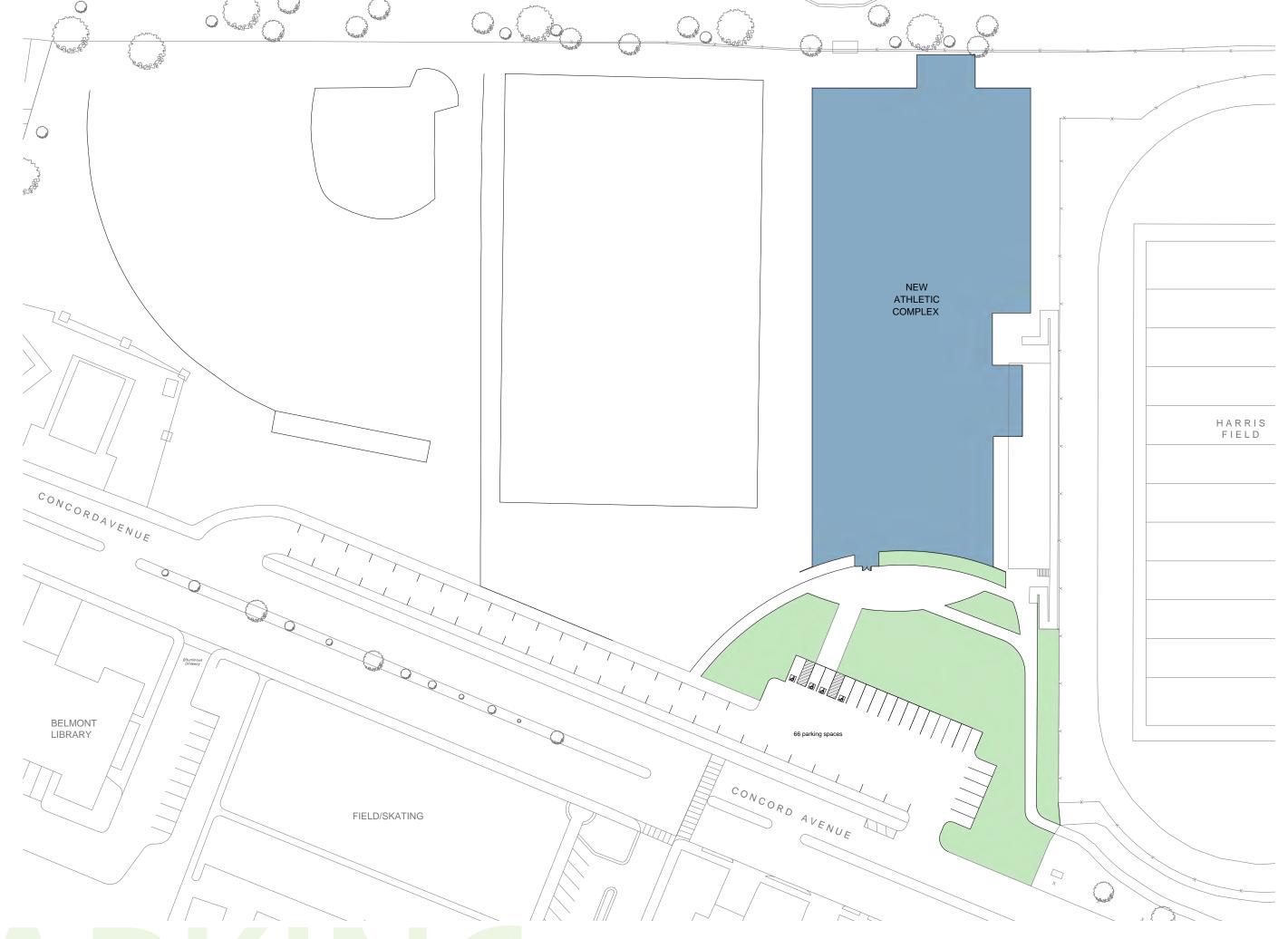
















Areas to Consider

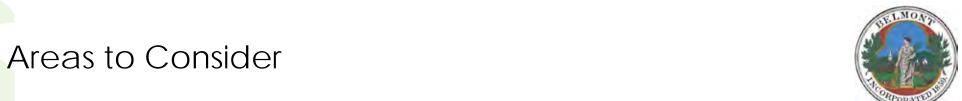








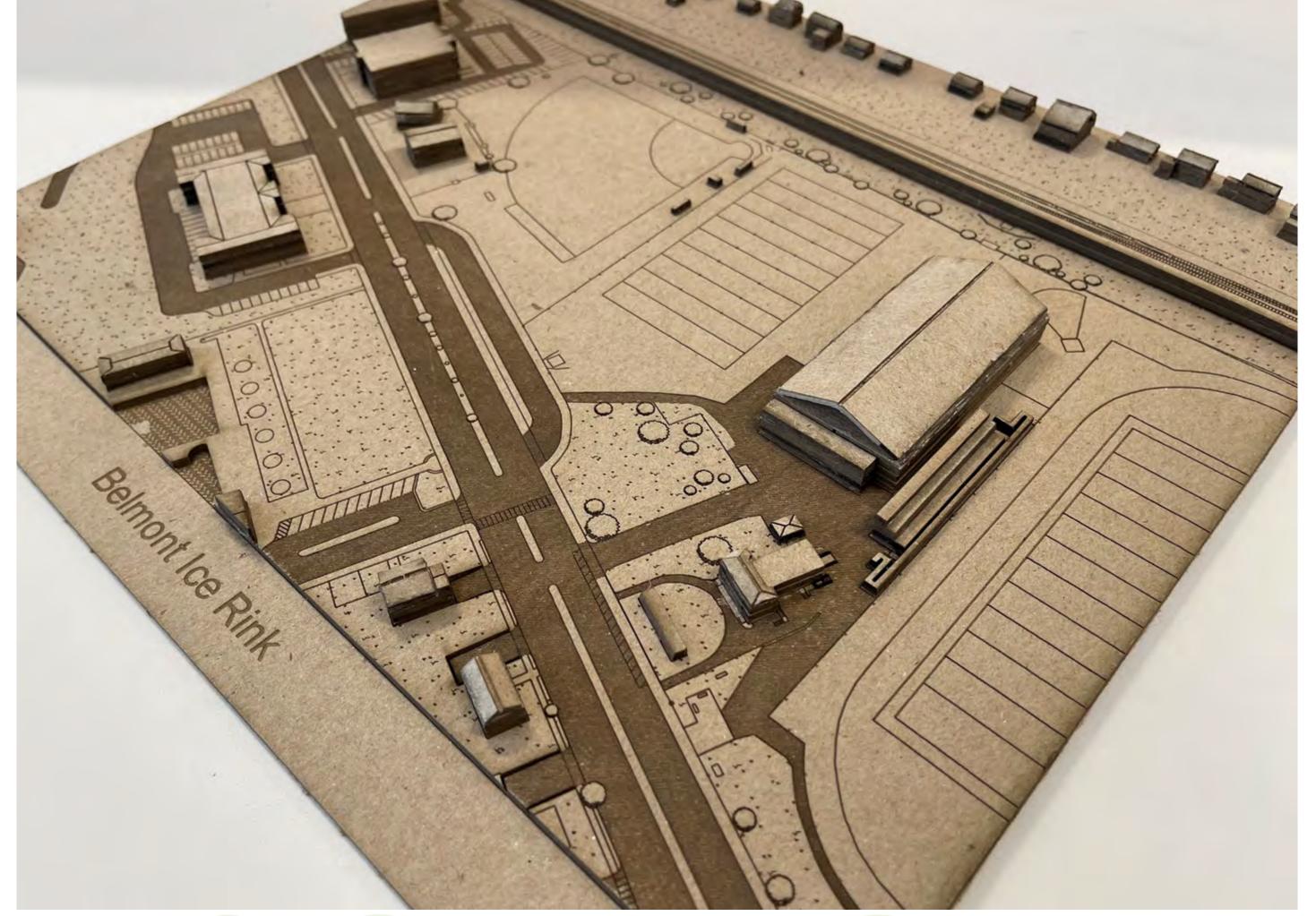






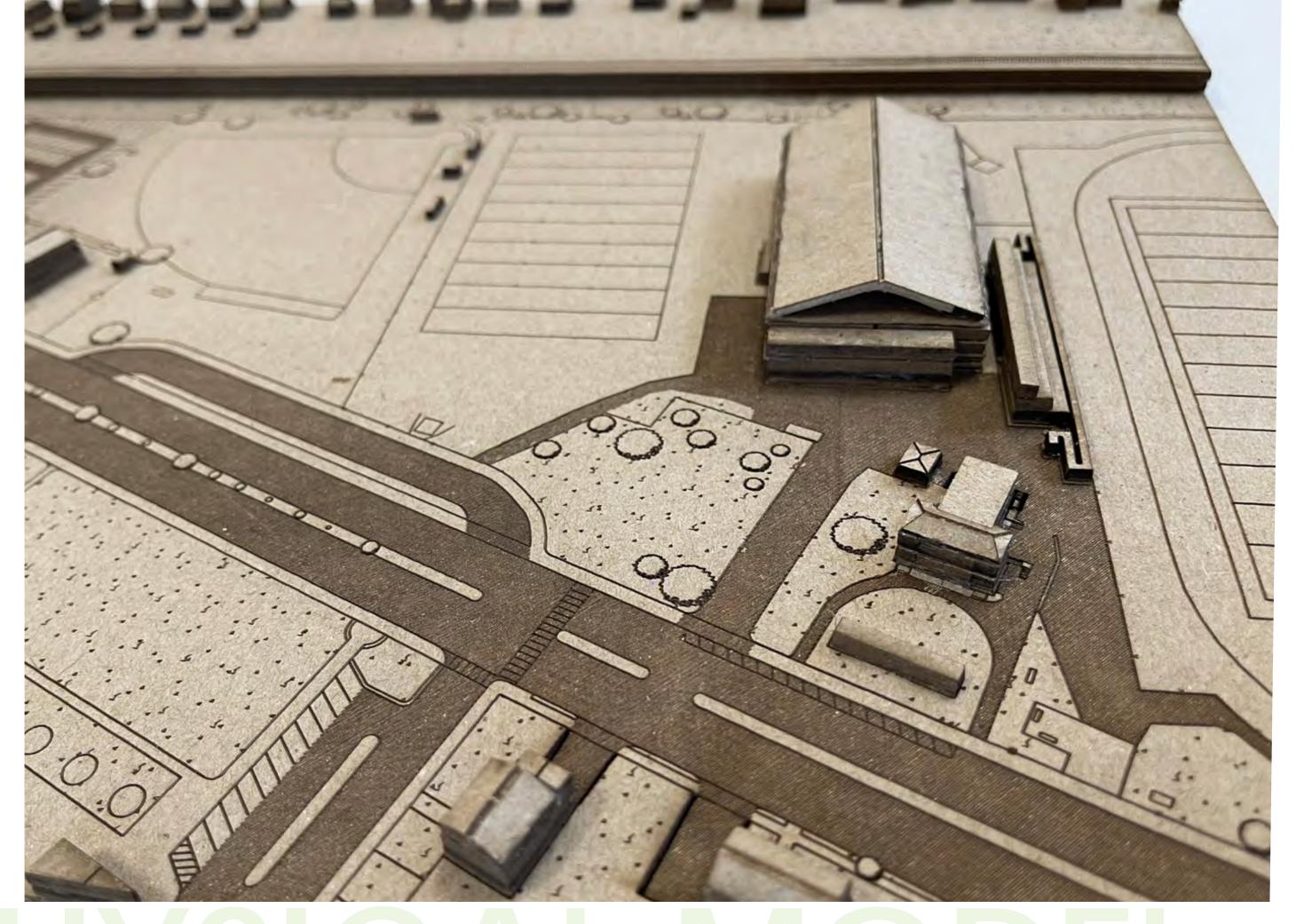
















Schedule

		2023						20232024	20232024				
Feasibility Study				October				ary February March			April 14 months		
Kick Off Meeting / Site Visits Feasibility report Comments from stakeholders	Segulatory Research Regulatory Research	Schematic Design package			October 5 12 19 26 Backgage above the second of the secon			January 6 13 20 23 CD cost estimate		24 1 8 15 22	onstruction Kick Off Meeting		Building Systems Commissioning Substantial Completion of Construction Punch List / Ribbon Cutting / Project Close Out
Programming Biweekly Meetings Feasibility Analysis Weekly Meetings	Schematic Des	sign					9	6					
			Design Deve Biweekly N				truction Docur weekly Meetin			Award / permit			
												Construction Administration	

The Galante Architecture Studio, Inc. 617 576 2500

5/17/2022





Next Steps

- Public Meeting
- School Committee
- Cost Estimate
- Select Board Meeting
- Planning Board Meeting











Perkins&Will

SITE DESIGN STUDIES

Overview



SCHEME 01: Renovation

The first concept required expanding the existing rink to the west and north while splitting parking lots located to the south and to the north connected by a service drive. The softball and baseball fields are positioned to the edge of the remaining site with the soccer field overlapping the two outfields.





SCHEME 02: New Construction (East)
PREFERRED SCHEME

The second concept located a new rink to the north-east corner of the site allowing for a single parking lot while maximizing the available field area. Similar to Scheme 01, The softball and baseball fields are positioned to the edge of the remaining site with the soccer field overlapping the two outfields, but in a north-south orientation.





SCHEME 03: New Construction (West)

The third concept located a new rink to the north-west corner of the site and required spliting parking lots to the south and to the north connected by a service drive. The softball and baseball fields are positioned to the edge of the remaining site with the soccer field overlapping the two outfields.





