

meeting minutes

Project No.: R3001.405.00 **File No.(s):** 0.10.0

Date Prepared: November 7, 2018

Meeting Date: November 1, 2018

Project Name: University of Wisconsin-La Crosse- New Student Fieldhouse & Soccer Support Facility (DFD 1512)

Subject: *Executive Committee Meeting* 10am - Noon

Meeting Attendees: See meeting attendance list attached

Comments, additions, or corrections to this memo should be communicated in writing to RDG Planning & Design within seven (7) days of receipt. If no comments are received within that period, this memo will be assumed accurate and filed as part of the permanent record for this project.

Discussion:

See attached exhibits discussed and marked up during the meeting for additional meeting documentation.

- 1) Brad Rodenburg, RDG, reviewed the Workshop agenda
 - a) 35% set will not be reviewed by building commission. No changes to current design schedule
 - b) Budget bill is voted on in March
- 2) Site Plan was review by Nate Novak
 - a) Existing access road gate to visitor football is being shifted to west
 - b) Is paved fire access be required on northeast side of site?
 - i) Nate Novak will reach out to fire department to talk through what will be required.
 - c) Add gates to perimeter fence that align with overhead doors in building
 - d) Gator access at northwest track for athletics will connect to track, grounds crew will want connection north to road
 - e) Bob H. noted side walk north of outdoor track needs to connect into stadium as well as existing sidewalk
 - f) Bob would prefer that the area just north of building is open, not a detention area
 - g) Could the primary detention be on the east side in easement?
 - h) The raingarden could be a bridge like being designed at centennial hall. Needs to have more direct access from soccer spectator seating as well as students playing rec sports on soccer artificial turf.
 - i) Standard acorn lamp is desired with banner incorporated. Pole banners have not been an overarching feature on campus.
 - j) Sidewalk next to street needs to be concrete, no pavers allowed
 - k) 15' wide diagonal access on south side encourages vehicle access, introduce deterrents at street
 - i) Scott S. noted brick paver needs to avoid city street.
 - l) Uniform planting in basins is good
 - m) Dumpsters will be located at Mitchell, trash will be carted across the street. Will need to locate collection area inside the building.
 - n) Access to new ADA parking will require moving a current bus stop

Additional Site notes from Nate Novak, SmithGroup:

- Pedestrian access appears accurate, however more direct access from the soccer and rec fields to the north restrooms of the fieldhouse needs to be accommodated. The rain garden as shown pushes traffic to the far east end



of the north access area

- Fire and service access reviewed and appears accurate. SmithGroup to setup Conf. call for fire department review with Scott.

Fencing layout review:

- Add gates along west side in alignment with west garage door locations to provide overflow and access to FH from the stadium and track.
- Soccer and rec field areas need to be secured. Add fence at SE FH corner and NW FH corner (gates at NW) to close off south end of field areas.
- Gator path north of the track needs to connect to the outer stadium perimeter path and to the Reuter Hall parking lot. There was a 2018 project that added a mountable curb at the bend in the Reuter parking lot that the new gator path should connect with.

Rain Garden review:

- Project is located within well head protection zone which prohibits active infiltration so while we can temporarily detain water, we cannot retain and infiltrate water on site so we are designing for controlled release. Local infrastructure is also over capacity further complicating stormwater management. The stormwater design is addressing to accommodate predevelopment runoff conditions. Rain gardens as shown are going in the right direction. The north stormwater concept idea is good, but needs to provide more direct path to the restrooms as mentioned above. A bridge or bisected RG area would be OK if needed. The east area shown can be considered but needs to be reviewed with the Water utility since it would be within the water main easement.
- South RG concept is good. Concept mimics the Centennial hall bridge design but rather than a cantilevered walk, the current design is an elevated walk but adjacent grade side slopes away toward the RG basin. Stormwater is conveyed via pipe below the walk and daylights through runnels to the basins east and west.

South plaza design:

- Pine St. - City won't allow pavers in the right of way. Stop the N-S walk short of Pine St. sidewalk
- Angle walk is wide which is desirable, however the design solution should discourage vehicular traffic or an inference to it. Campus is having trouble at other mall like areas, people think they can drive on pedestrian oriented paving
- Trash collection - dumpsters will be located at Mitchell Hall. Custodial will cart refuse across. They will likely come out the southwest garage door of FH
- Check Bus stop - Scott mentioned the MTU bus stop is located at or close to the ADA parking lot entrance off Pine St.
- SmithGroup to review with Water department, discuss viability of RG in the easement.

3) Brad Rodenburg, RDG, reviewed the Floor Plans

- a) Confirm with athletics that they want separate showers/toilets at women's track and softball
- b) Upper team room storage is not needed
- c) Considering deleting movable wall in multipurpose rooms
 - i) These rooms will be configured a number of different ways and the flooring type will need to be determined based on the function that occurs the most or is best for all.
- d) Reserve space for trash and recycling in southwest storage area
- e) Remove wall that separates storage areas in southwest area, will be shared
- f) Remove atrium verbiage from "views" slides, as we want to avoid an atrium condition here. HSR will continue to research.
- g) Do we really need basketball courts/backstops in this space? Are students going to come here to play or are they going to play elsewhere on campus? Comment from Scott S., that we need to push rec sports on this.
- h) Bob wants to see diagram of tilt and rolls stored
- i) Interest in adding additional shoulders to seating bump out for more retractable seating

4) Building exterior was reviewed by Hoang Tran, RDG.

- a) Not completely stone at entrance, blend of brick and stone
- b) Stone at entry might be too much, explore more subtle approach. Cathy seemed to be ok with the aesthetic. Overall, very pleased with the direction of the design.
- c) Add lintel or head stone piece



- d) Correct mullions in windows on North façade in gable end
- e) Change metal panel to brick in massing separation
- f) Change mullion spacing on east façade
- g) Add cast stone sills to windows on east side
- h) Balance the press box seats split around filming platform at Soccer Support.

END OF MEETING MINUTES



meeting attendance

Date: November 1, 2018 **Time:** 10am–Noon **Subject:** Executive Committee
Project: University of Wisconsin–La Crosse New Student Fieldhouse & Soccer Support Facility – DFD 15I2I
Project No.: 3001.405.00

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University of Wisconsin – La Crosse Student Fieldhouse and Soccer Support Facility

Design Workshop #05 - *Executive Committee* – November 1, 2018



Agenda

- Introductions
- Background
- Overall Schedule
- 15 Items from 10% Review
- Budget
- Other topics, as needed
- Wrap Up



MEETING OBJECTIVES

- Confirm all spaces and locations
- Identify space modifications
- Discuss equipment, furnishings, and other elements of Design Development
- Confirm Budget
- Add/Deduct alternates going forward



1 | Fieldhouse – Roommates



ATHLETIC



EXERCISE & SPORT
SCIENCE



REC SPORTS



Design Team





Schedule

Schedule

LOCATION	TASK	DATE	DURATION
UWL	Kick-off Meeting w/ Exec Comm	8.24.17	1.5 hours
AE	DFD 10% Document Preparation	Sept 2018	4 months
UWL	Design Meetings w/ Executive Comm & Design Comm	9.20.17	1 Day
UWL	Design Workshop Sessions w/ Exec Comm, Design Comm & User Groups	10.17.17	2 Days
UWL	Design Workshop Sessions w/ Exec Comm, Design Comm & User Groups	11.14.17	2 Days
UWL	Design Workshop Sessions w/ Exec Comm, Design Comm & User Groups	Dec 2017	2 Days
AE/DFD	DFD 10% Peer Review in Madison	3.1.18	1.5 hours
UWL	Design Meeting w/ Design Committee	3.21.18	1 Day
	Pause in Design	3.29.18	6 months
MAD	BOR/SBC Meeting to Approve moving forward with Design	8.23.18	1 Month
AE	DFD 35% Document Preparation	9.25.18	4 months
UWL	Design Meetings w/ Executive Comm & Design Comm <small>Site Program Verification</small>	11.01.18	1 Day
UWL	Design Meetings w/ Executive Comm & Design Comm <small>MEP Structural</small>	11.29.18	1 Day
UWL	Design Meetings w/ Executive Comm & Design Comm <small>Exec. Committee Overview</small>	12.13.18	1 Day
AE/DFD	DFD 35% Preliminary Design Submittal & Review of Documents	2.1.19	2 Months
UWL	Design Meetings w/ Executive Comm & Design Comm	3.6.19	1 Day
AE	DFD 100% Document Preparation	4.1.19	6 months
UWL	Design Workshop Sessions w/ Exec Comm, Design Comm & User Groups	May 2019	1 Day
UWL	Design Meetings w/ Executive Comm & Design Comm	June 2019	1 Day
UWL	Design Meetings w/ Executive Comm & Design Comm	July 2019	1 Day
AE/DFD	DFD 100% Final Design Submittal & Review of Documents	9.27.19	2 Months
MAD	BOR/SBC Authority to Construct	Nov 2019	3 Months
DFD	Release of Bidding Documents	Feb 2020	3 Months
DFD	Receipt of Bids & Release of Construction Contracts	May 2020	3 Months
UWL	Construction of New Facility	Aug 2020	22 Months
UWL	Substantial Completion	June 2022	1 Month
UWL	Occupancy	July 2022	3 Months
UWL	Final Completion	Nov 2022	4 Months

Project Re-Start



35% DFD Review, Feb 2019

100% Documents, Sept 2019

Break Ground, Aug 2020

Occupy, July 2022



Schedule - Remaining

Project Re-Start



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100% Documents, Sept 2019



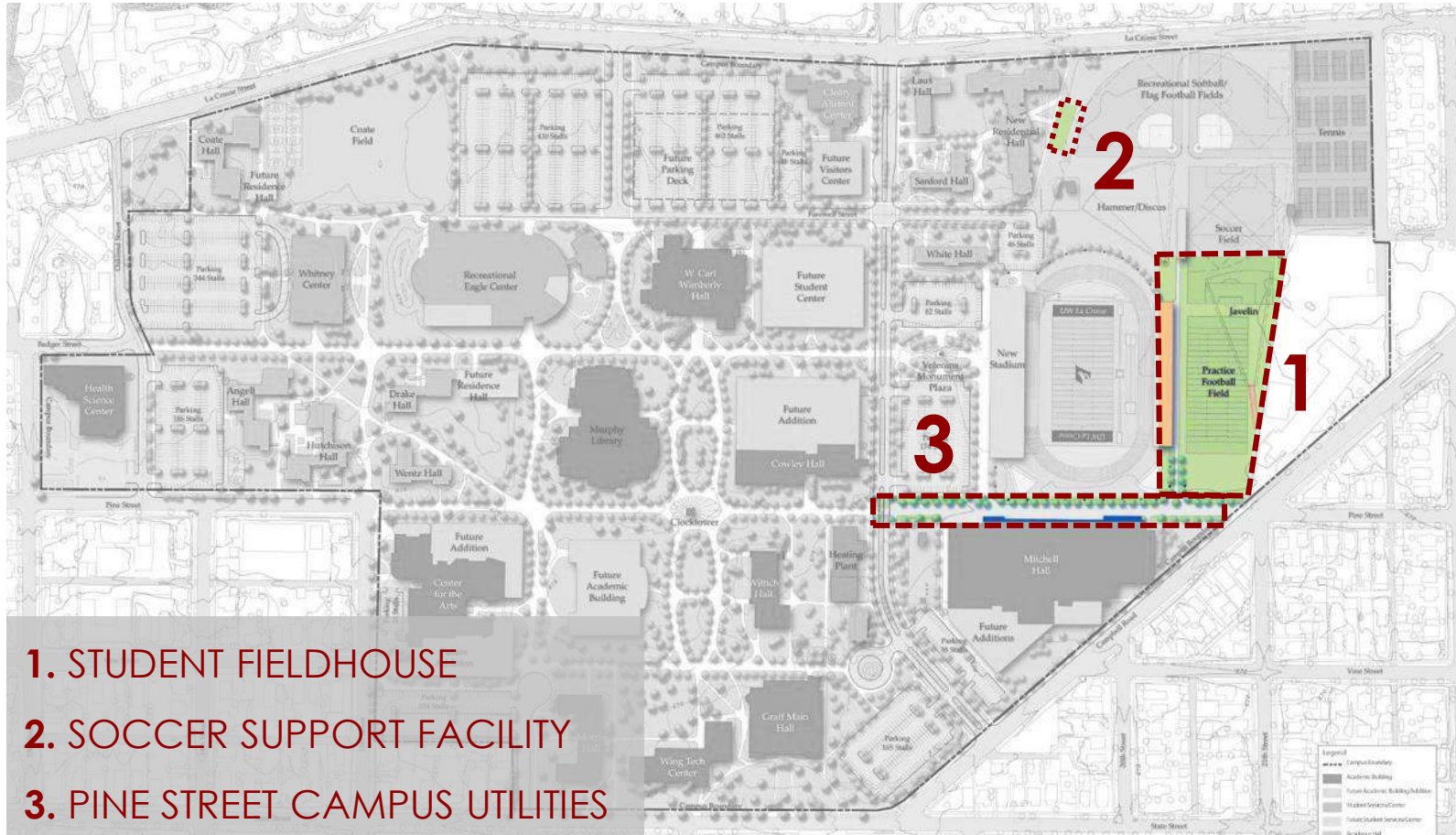
Break Ground, Aug 2020



Occupy, July 2022



Scope of Work



Student Field House and Soccer Support Facility

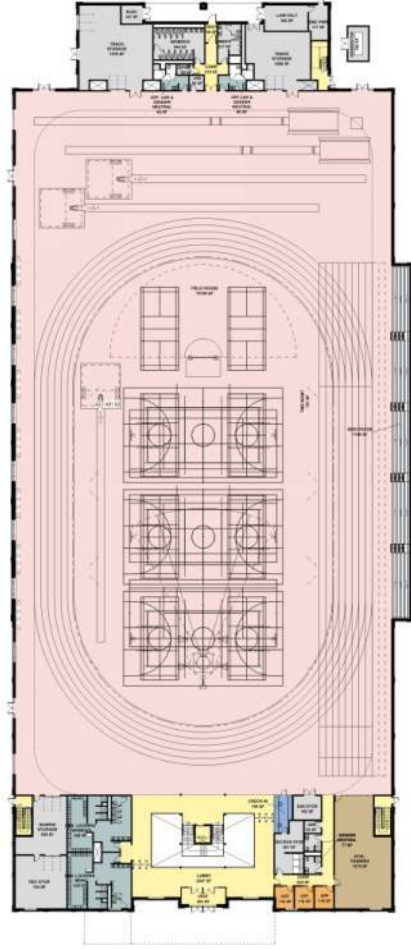


1 | Fieldhouse – Floor Plans

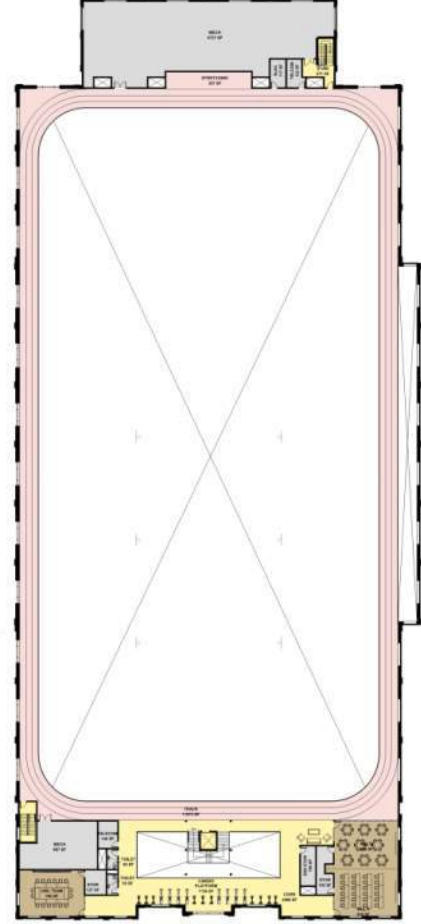
Basement



Level 01



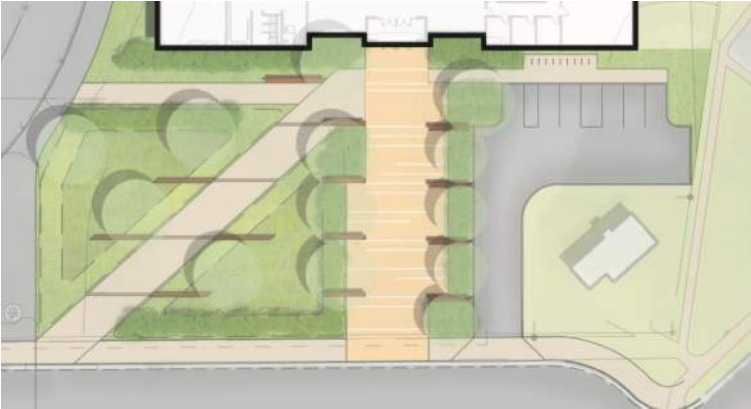
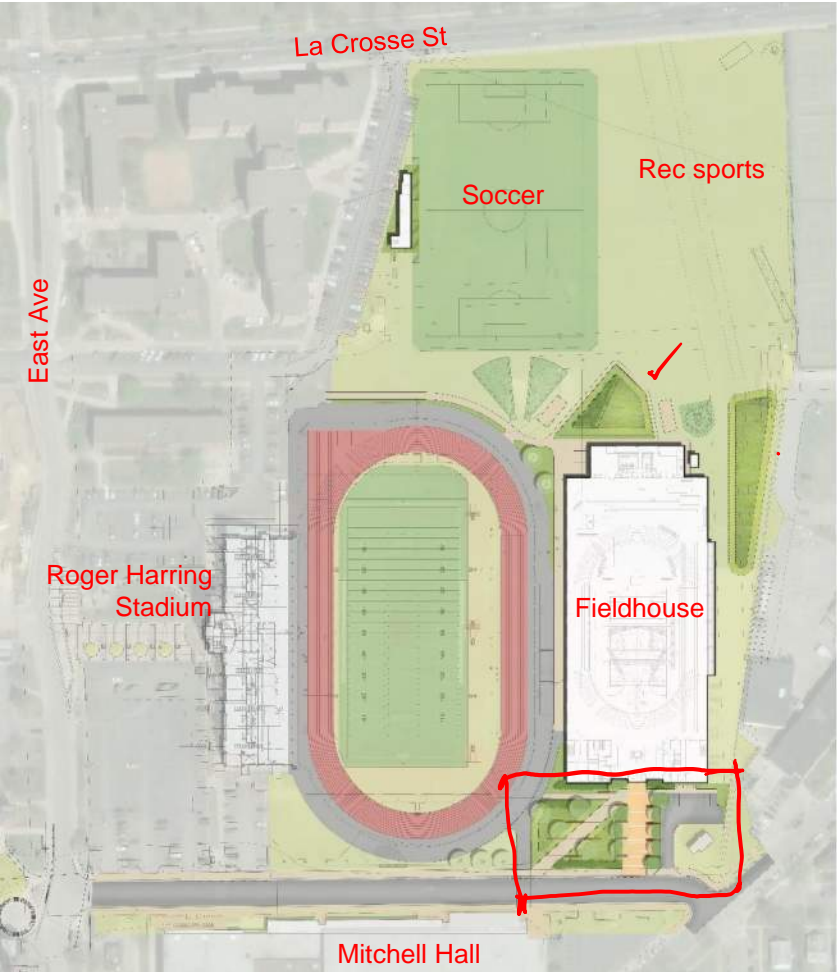
Level 02



Site Agenda

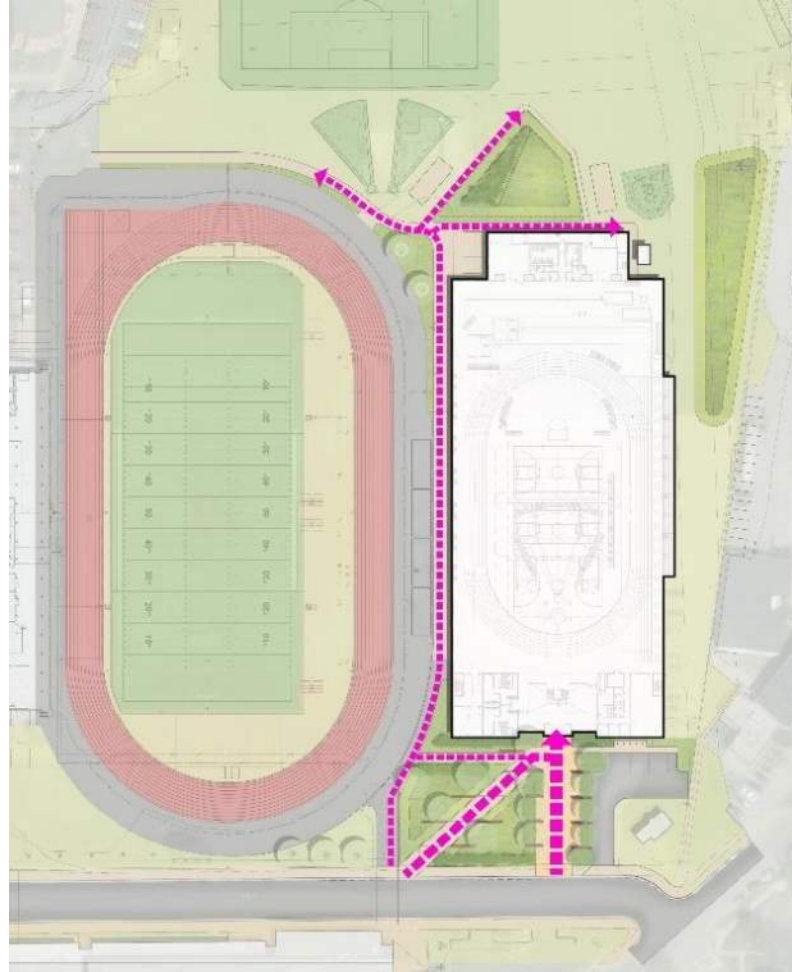
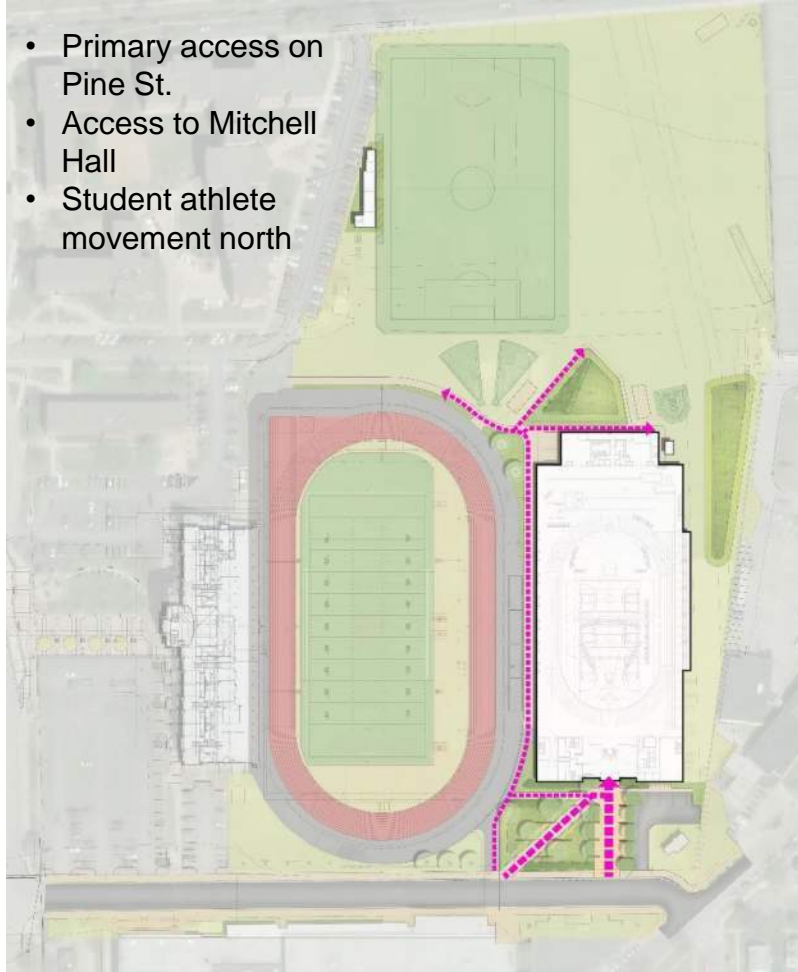
- Overall site plan
- Pedestrian circulation diagram
- Vehicular circulation diagram
- Site Fencing diagram
- Stormwater treatment areas
- South entry plaza enlargement
- Accent features
- North rain garden areas/integration with north site elements
- Soccer support facility access.

Overall – Site Plan

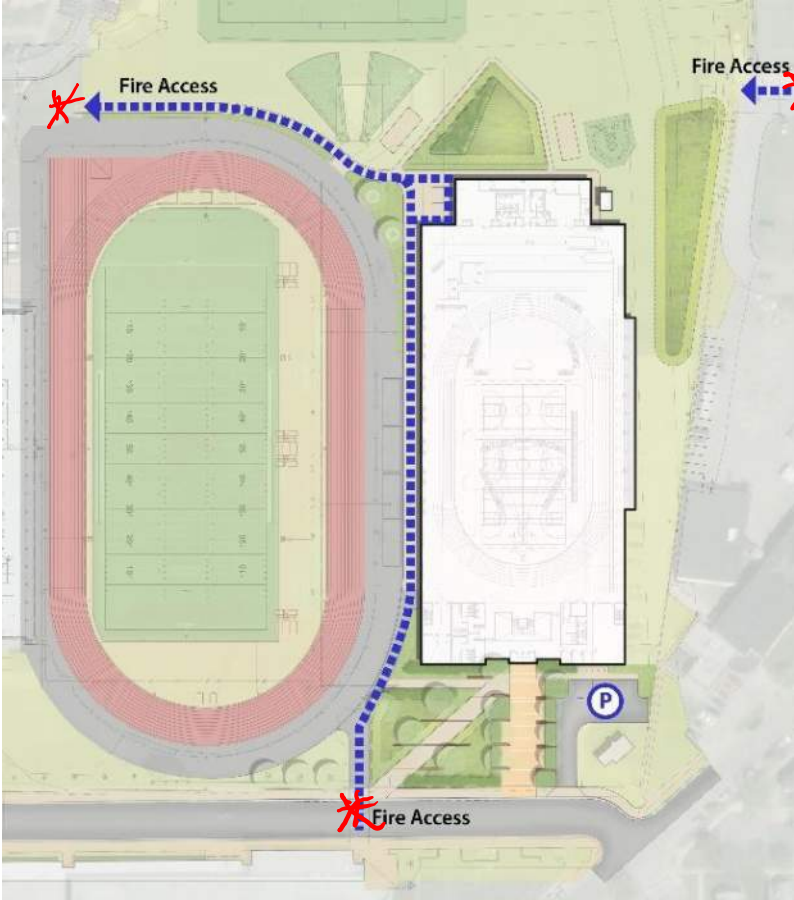
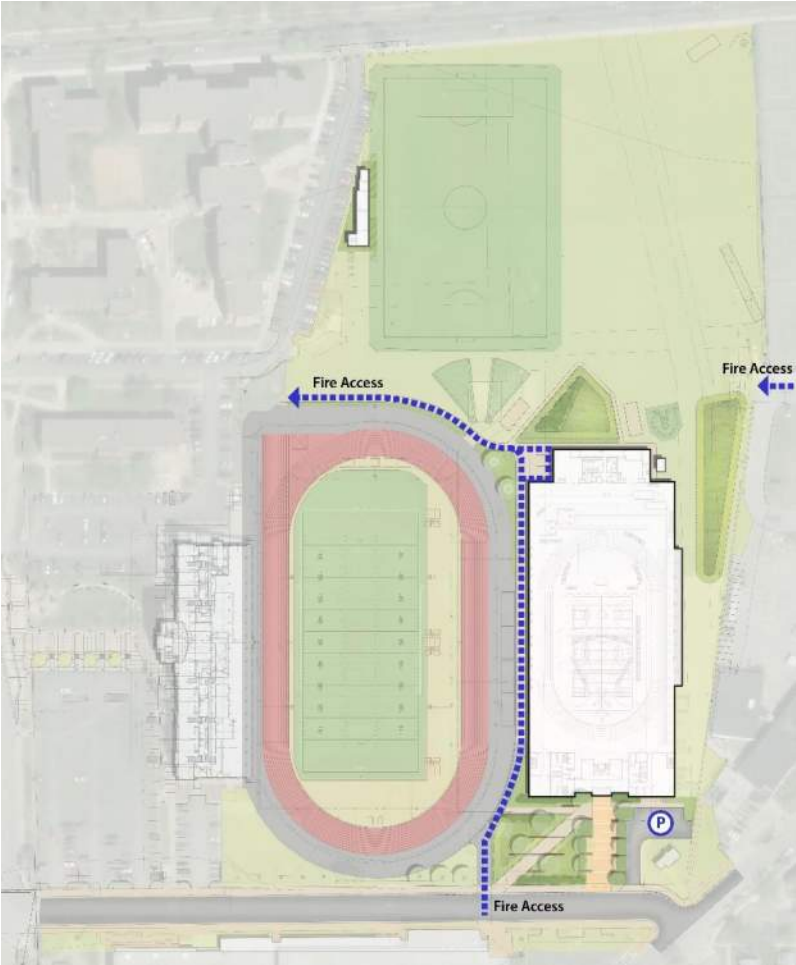


Pedestrian Circulation


- Primary access on Pine St.
- Access to Mitchell Hall
- Student athlete movement north



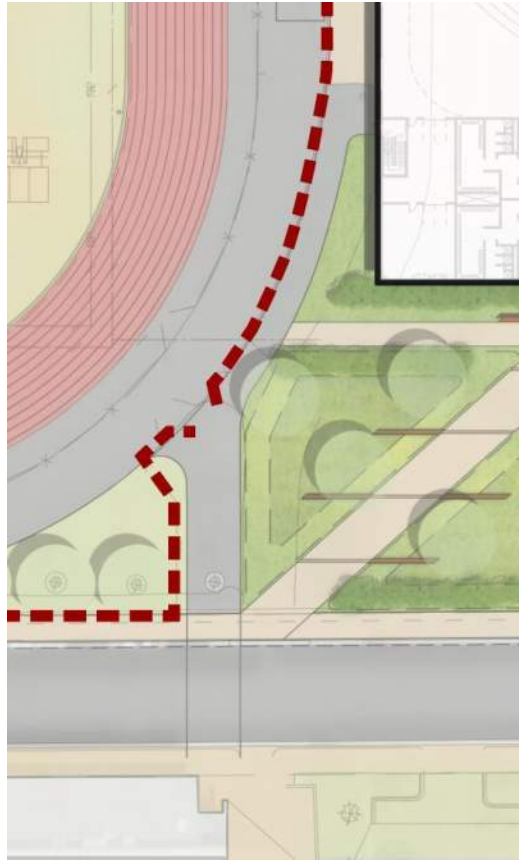
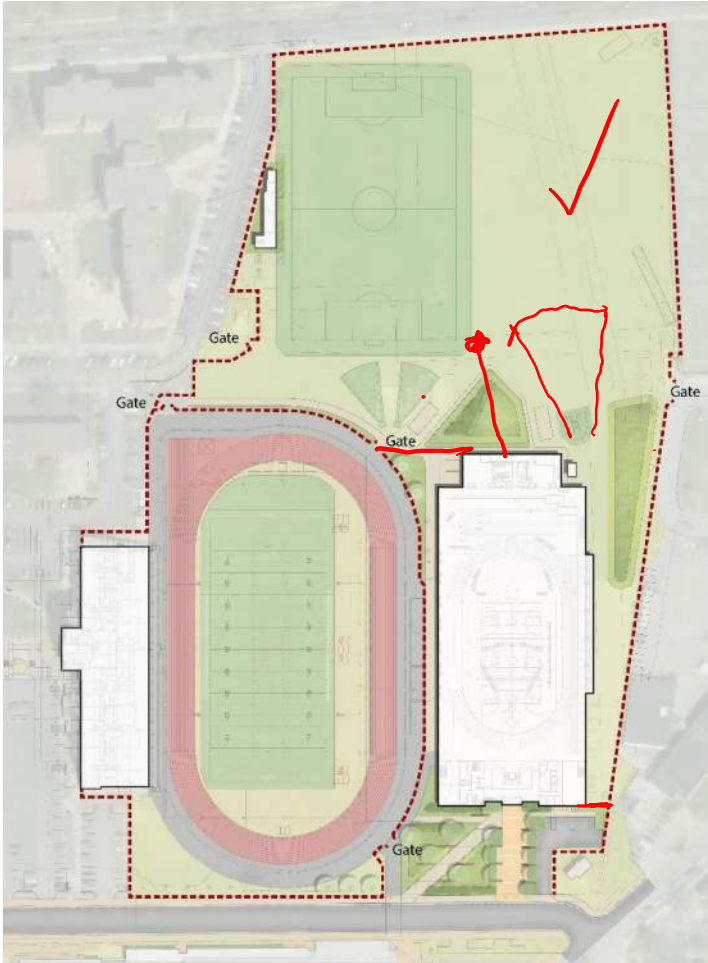
Vehicular Circulation



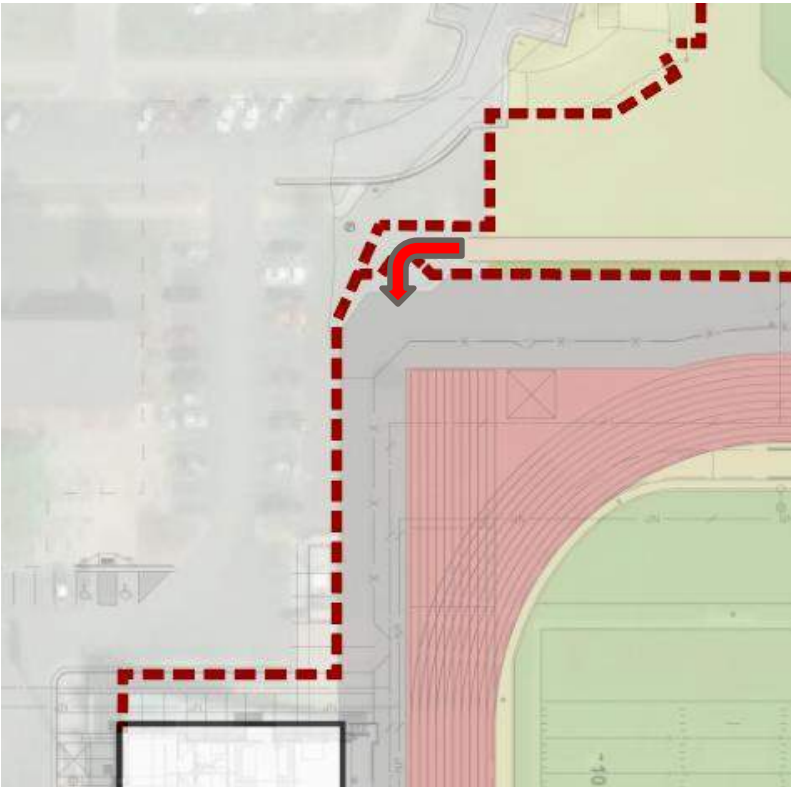
Site Fencing Diagram

- Perimeter fence to limit access
- Stadium security fence
-  Modified stadium fence at southeast

TRAPHOUSE ARGUMENT DR.

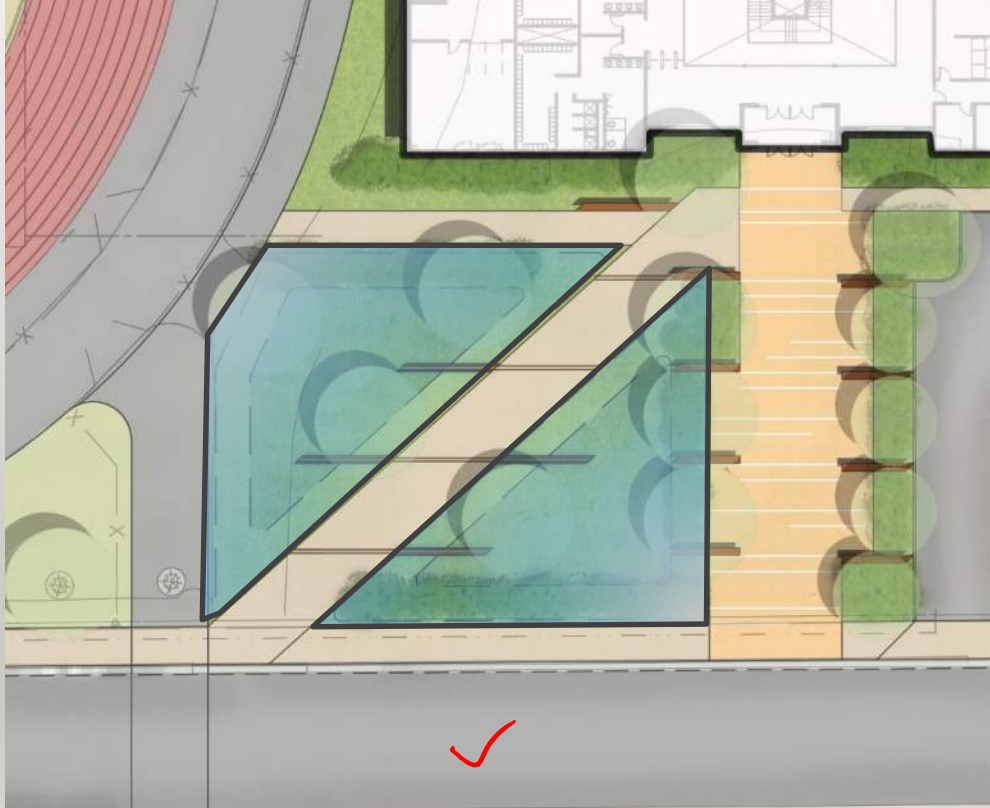


Site Fencing Diagram

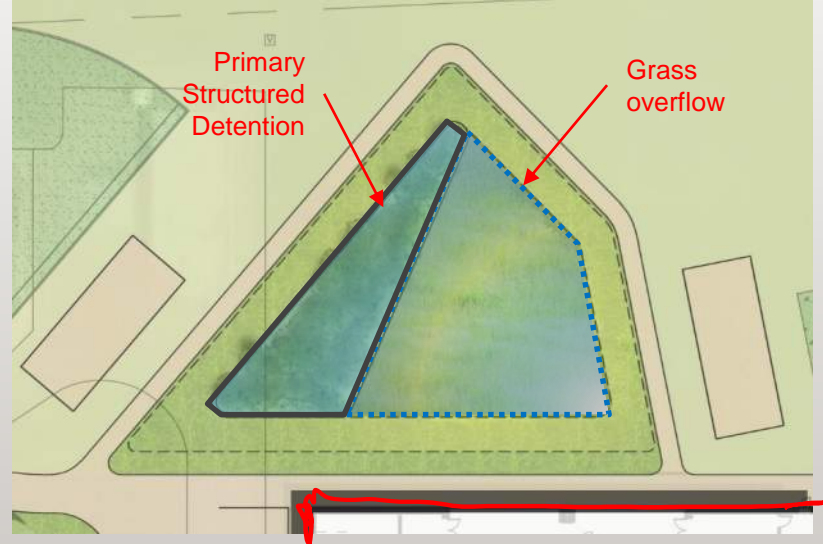


Stormwater Treatment Areas

South plaza stormwater garden

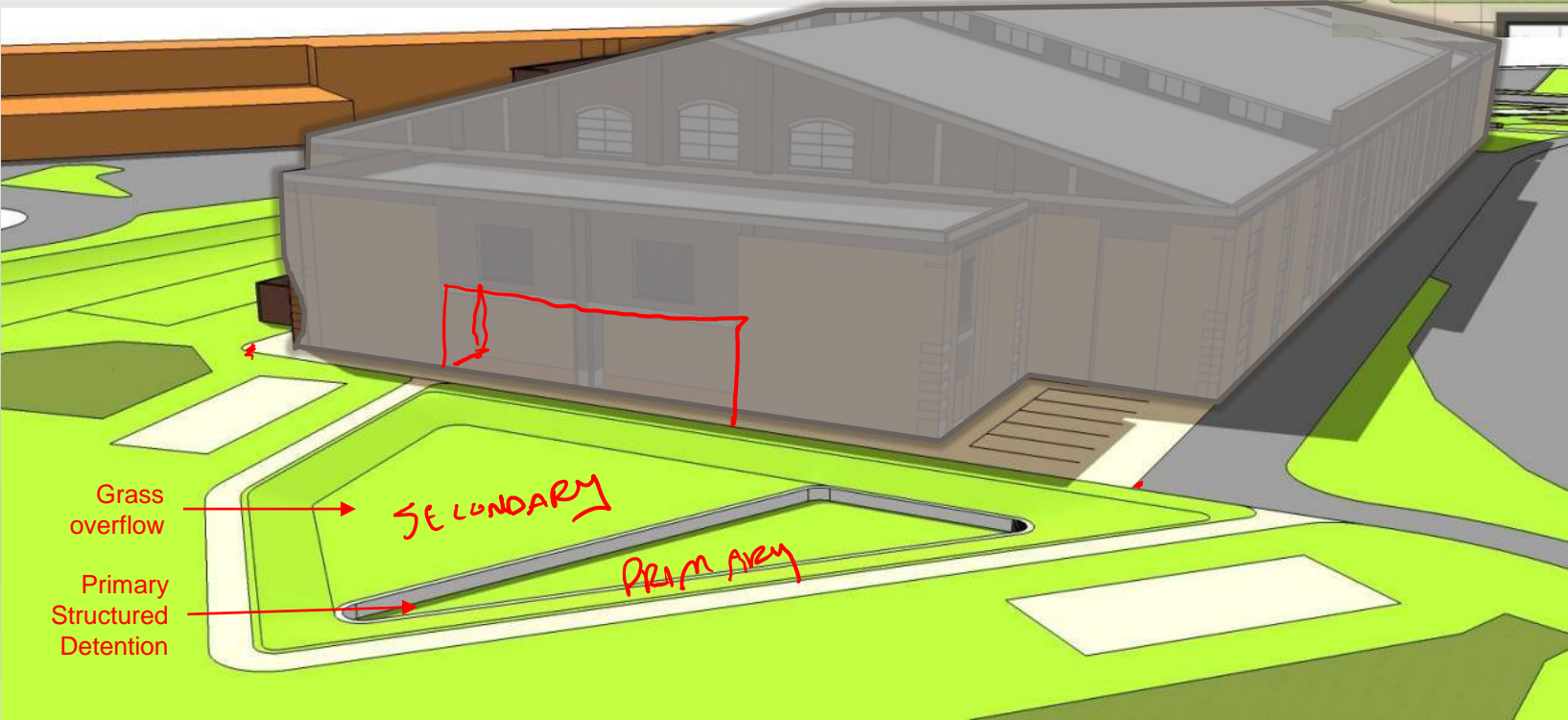


North stormwater garden



BUBB.

Stormwater Treatment Areas



South Plaza

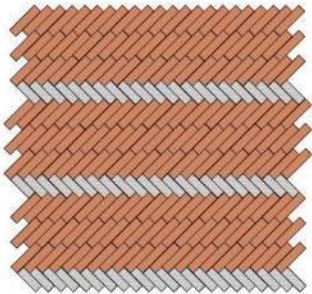


Paving Precedents

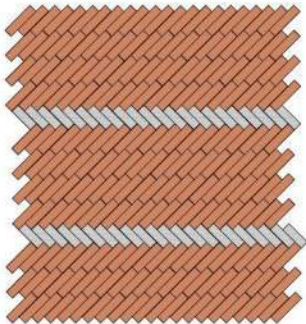


Paving Studies

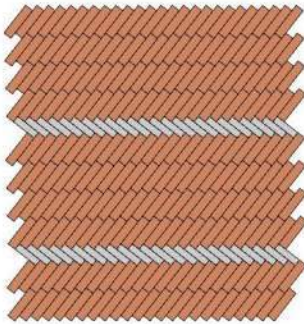
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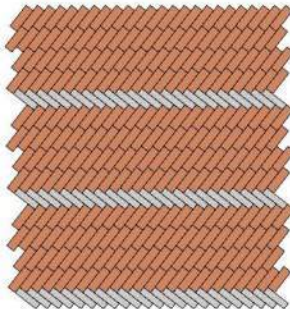
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(4) 4x16 by 3x12



(4) 4x12 by 3x12



Lane Inspiration



Totem / Mast Precedents



no more interesting

x

↓

South Plaza - Champions Walk



Building Champions

In Sport
In School
In Life

SMITHGROUP



South Plaza - Champions Walk



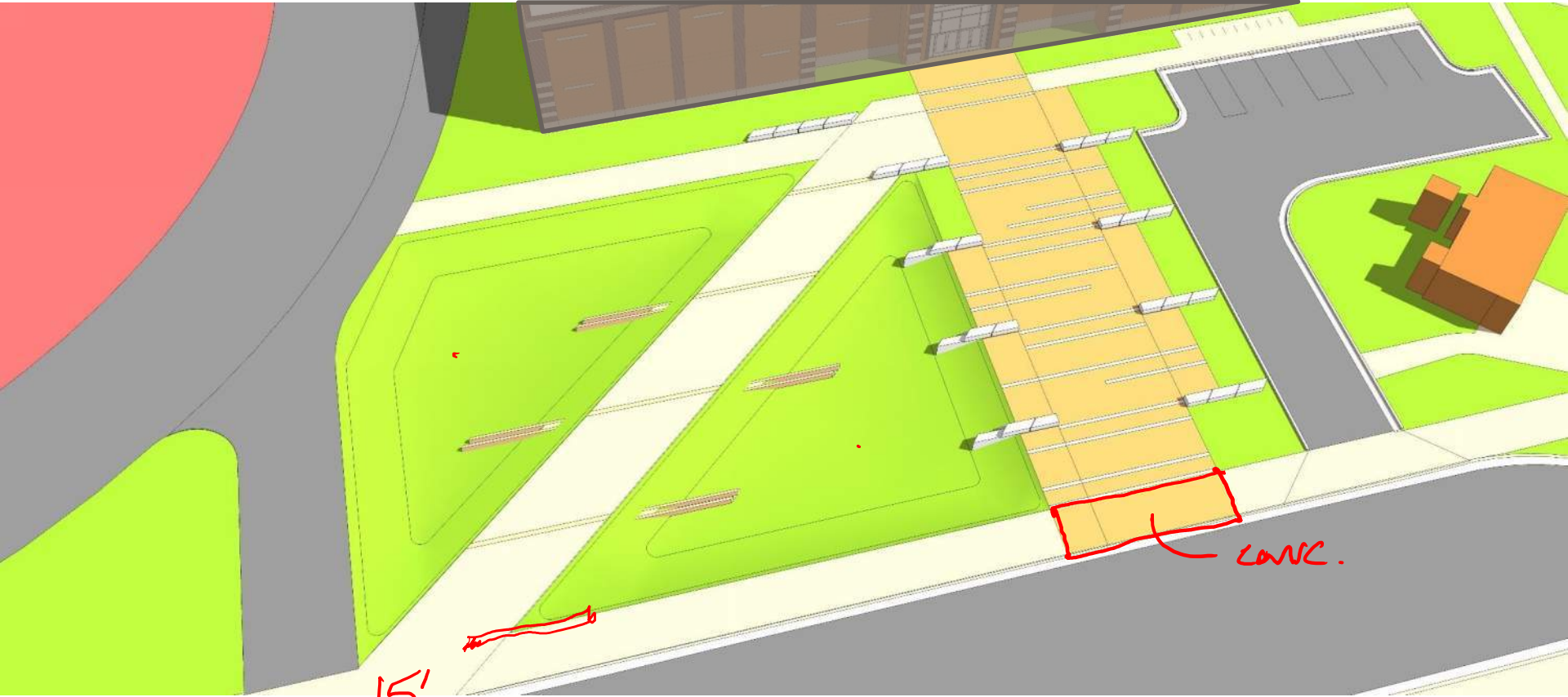
Building Champions

*In Sport
In School
In Life*

SMITHGROUP



Study Model

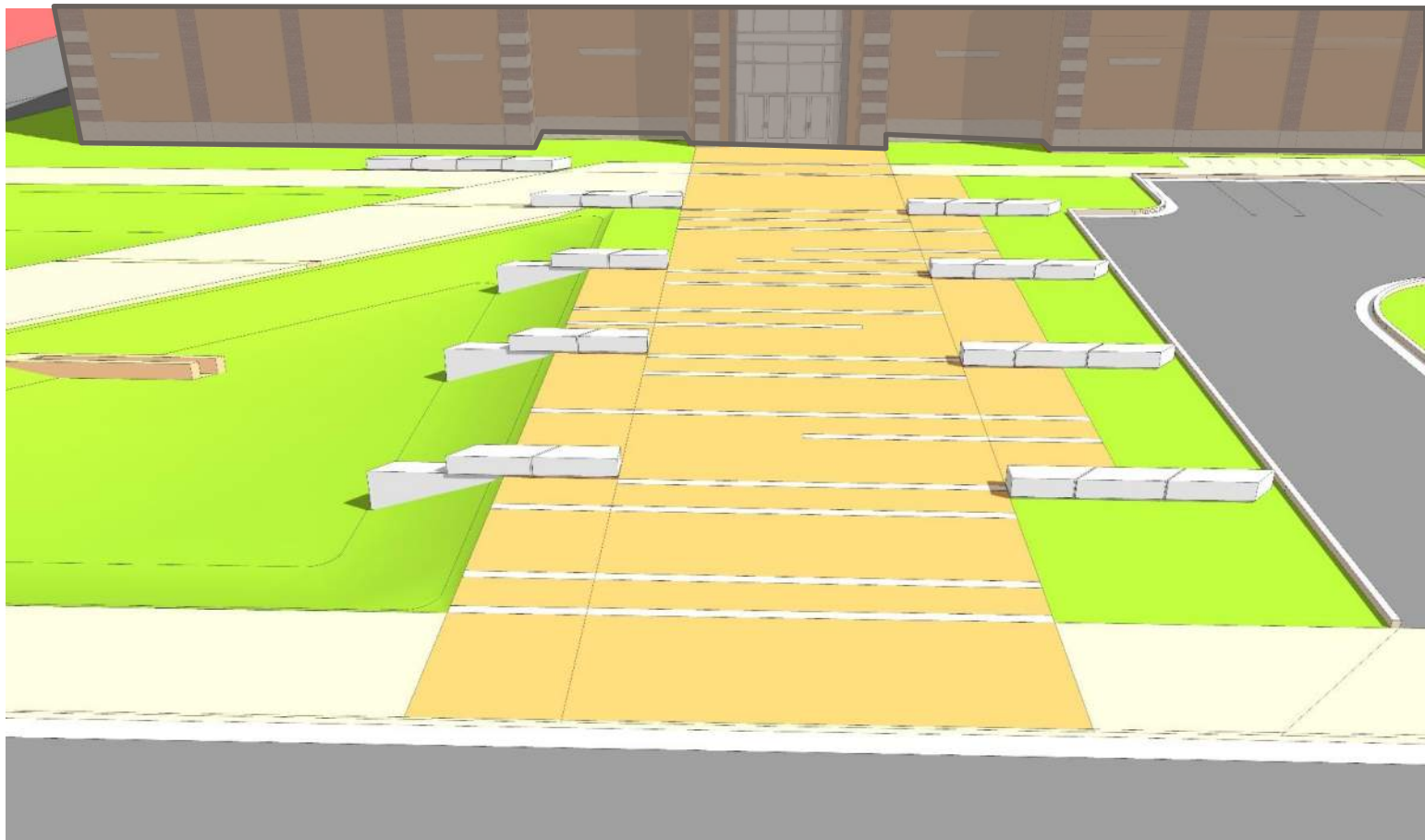


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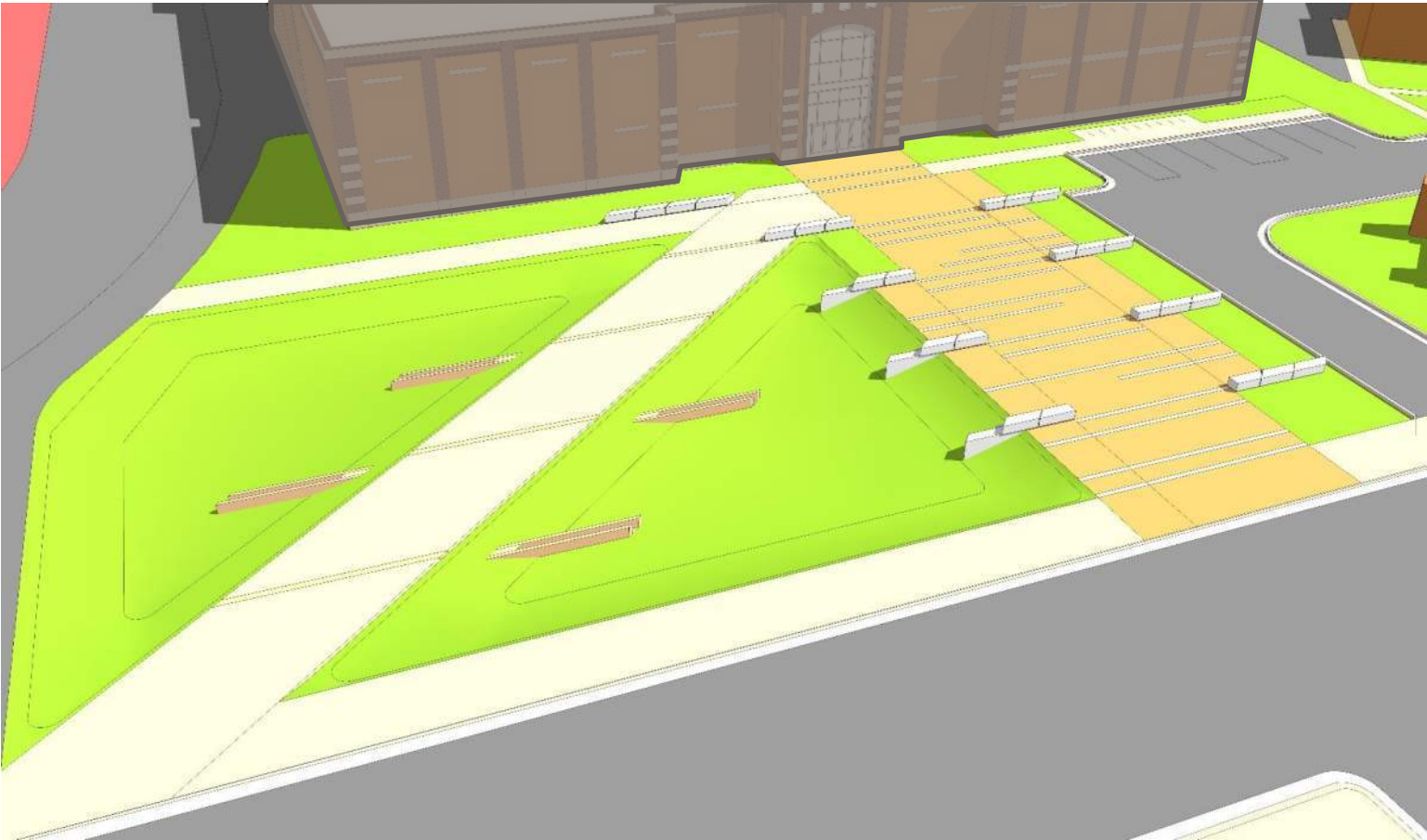
CONC.



Study Model



Study Model



Study Model

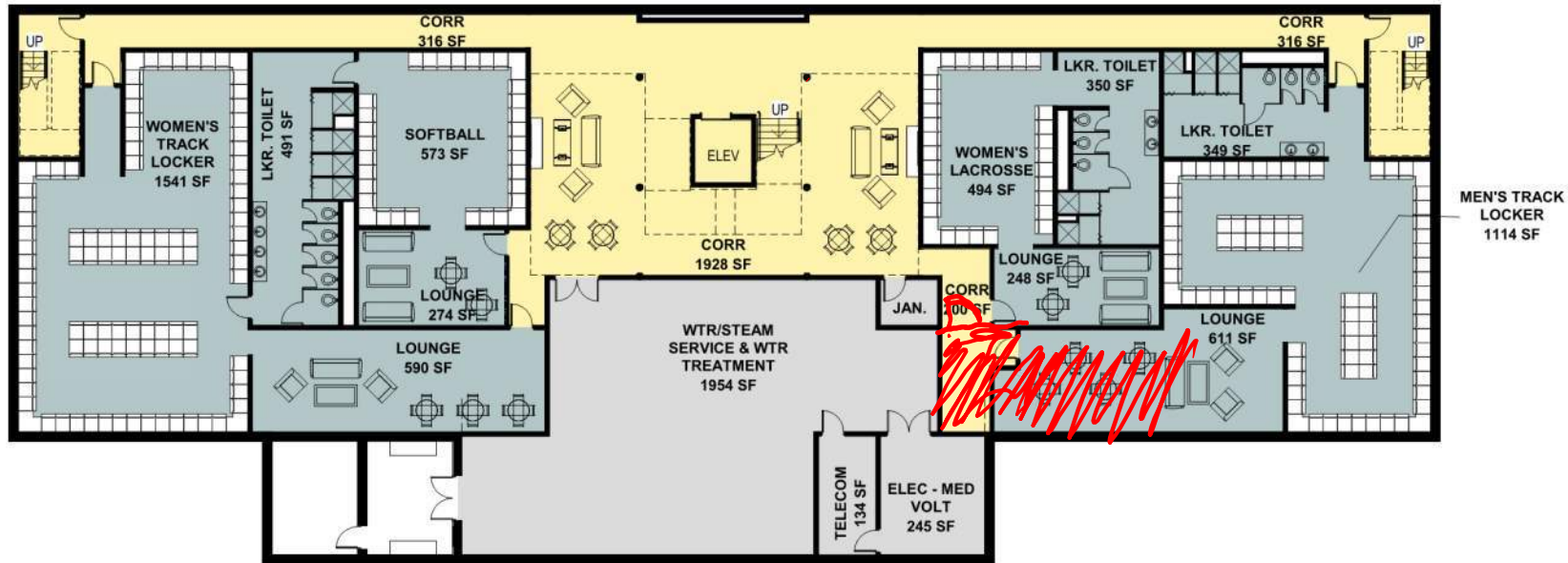


Study Model



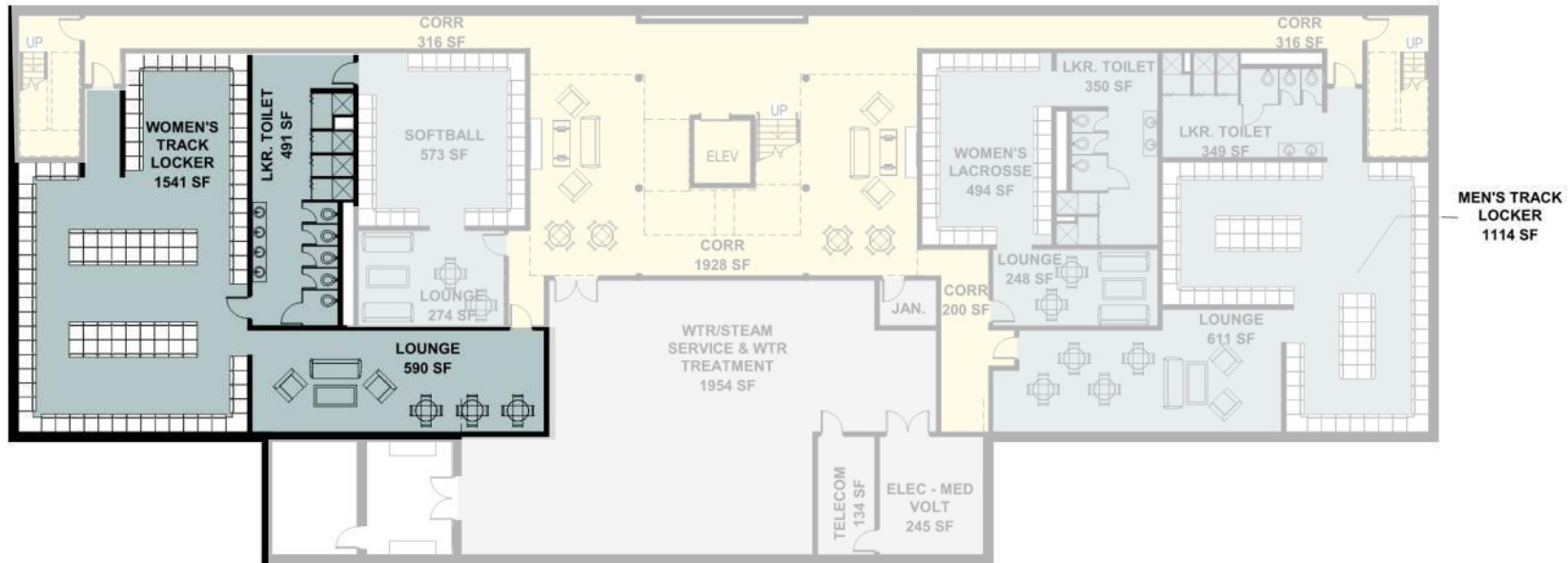
1 | Fieldhouse – Basement Floor Plan

- WOMEN'S TRACK: 100 LOCKERS
 - SOFTBALL: 30 LOCKERS
 - WOMEN'S LACROSSE: 30 LOCKERS
 - MEN'S TRACK: 80 LOCKERS
- SHARED SHOWER/TOILET. SEPARATE ATHELETE LOUNGES



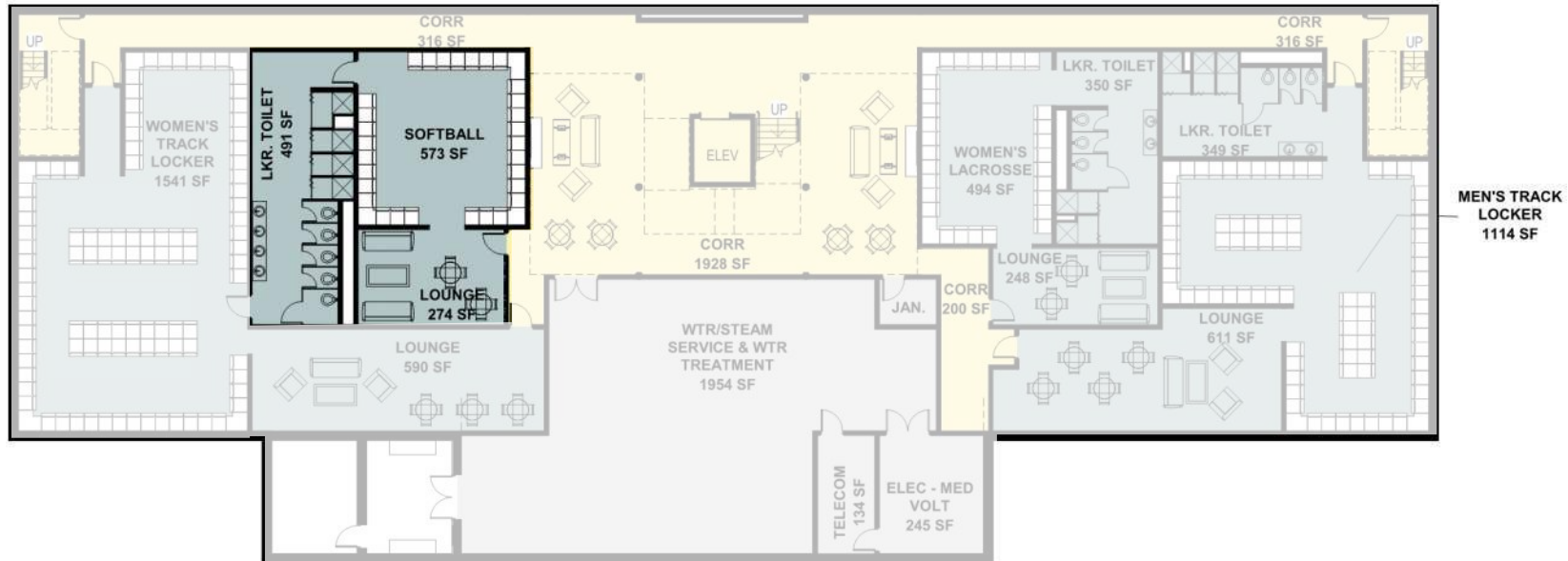
1 | Fieldhouse – Women's Track and Field

- Women's Track: (100) 24" X 30" Wood Athletic Lockers
- 589 Sf Athletes' Lounge
- Share Toilet / Shower With Softball



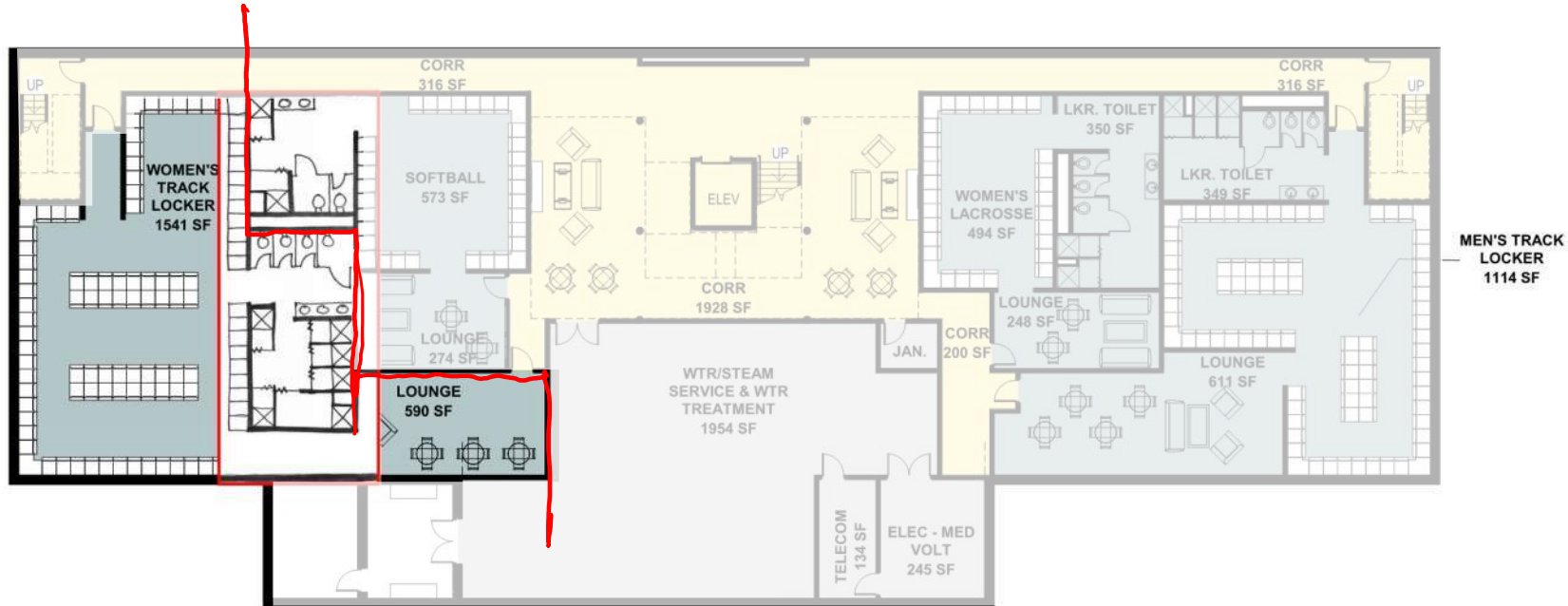
1 | Fieldhouse – Women’s Softball

- Softball: (30) 24”x 30” Wood Athletic Lockers
- 273 Sf Athlete’s Lounge
- Share Toilet / Shower With Women’s Track and Field



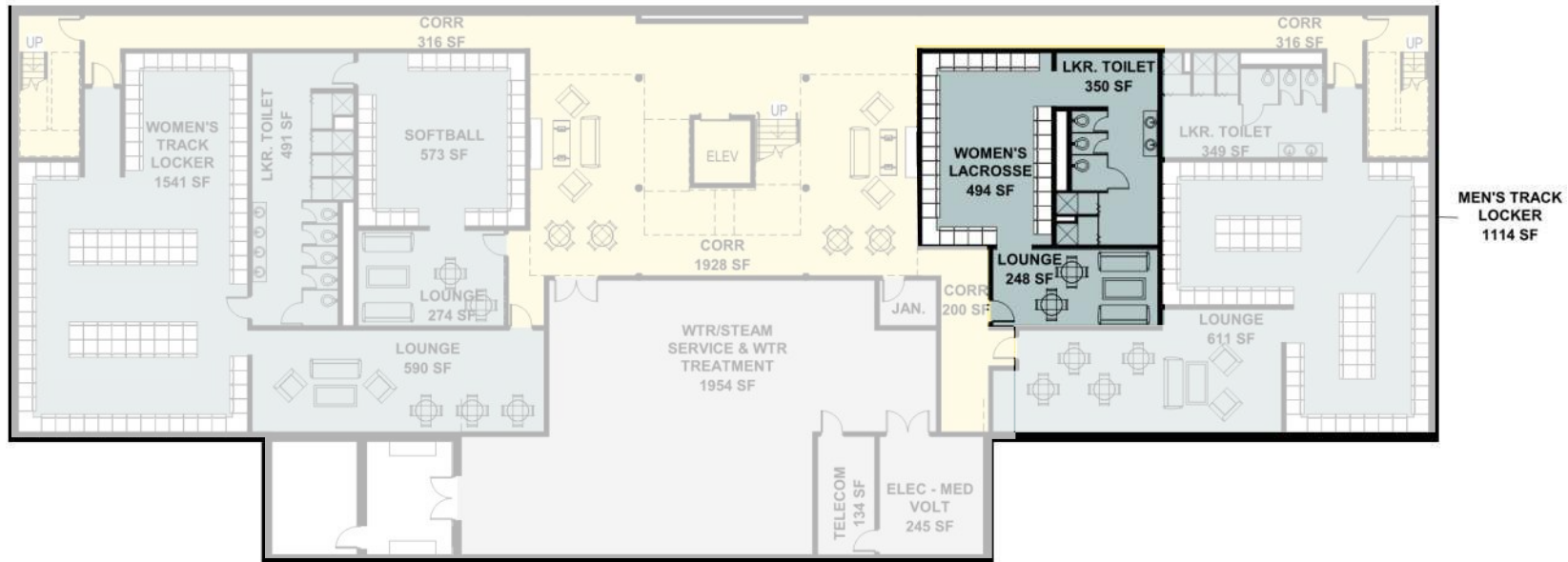
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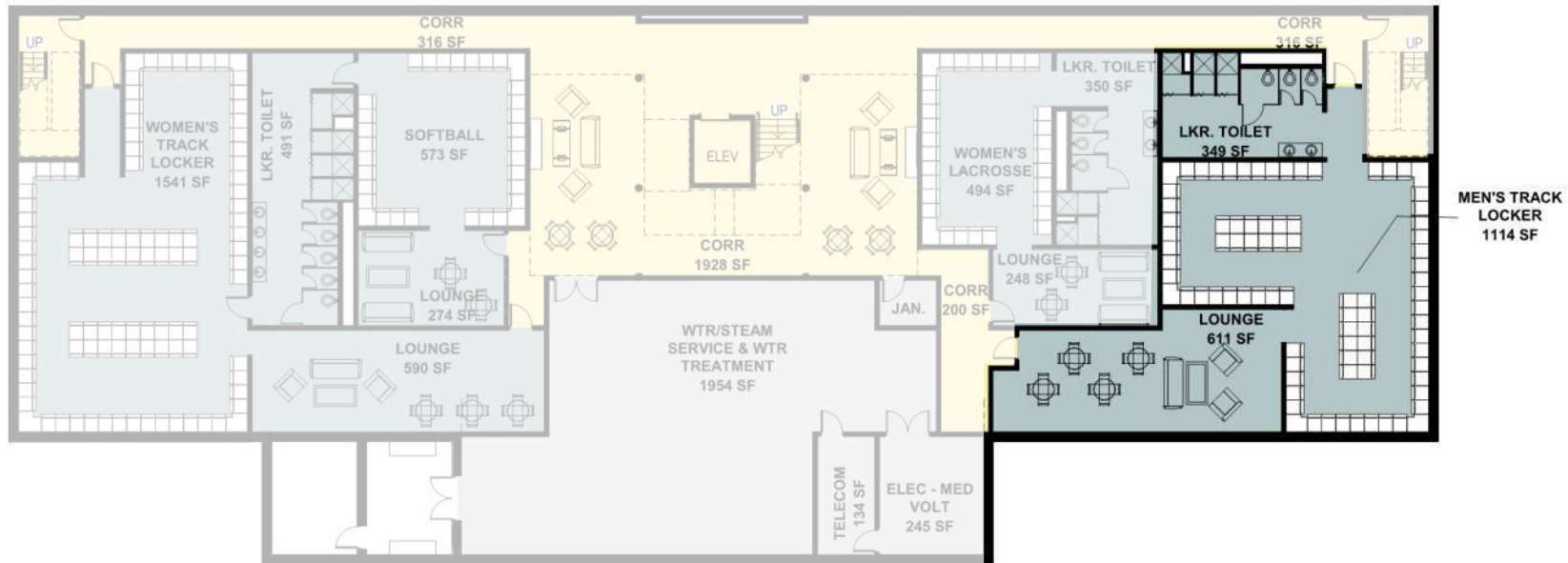
1 | Fieldhouse – Basement Floor Plan

- Women's Lacrosse: (30) 24" X 30" Wood Athletic Lockers
- 247 SF Athletes' Lounge
- Separated Toilet / Shower



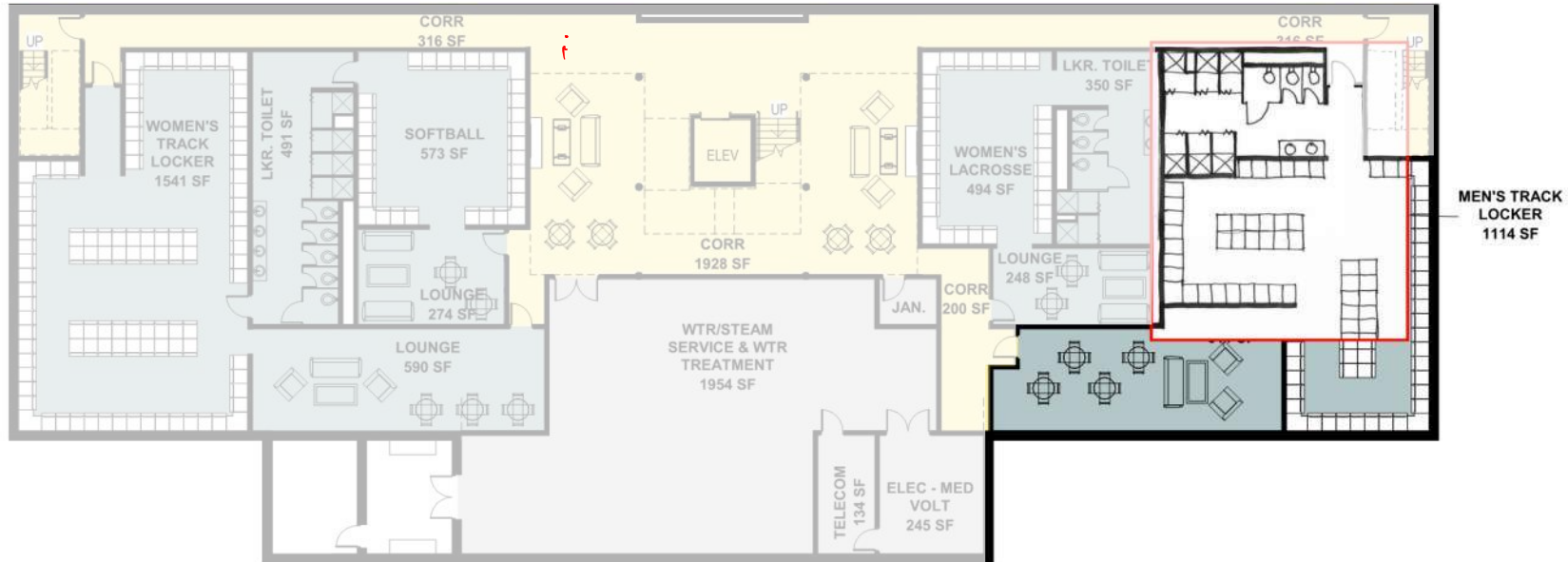
1 | Fieldhouse – Basement Floor Plan

- Men's Track: (80) 24" x 30" Wood Athletic Lockers
- 610 SF Athletes' Lounge
- Separated Toilet / Shower



1 | Fieldhouse – Basement Floor Plan

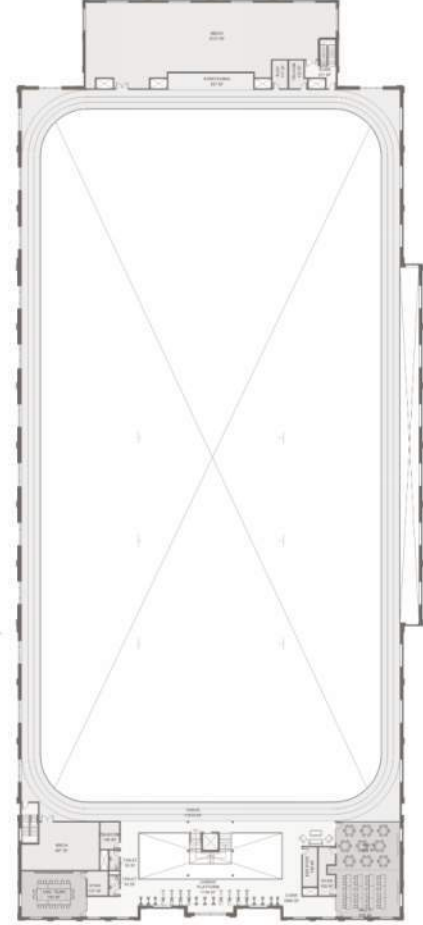
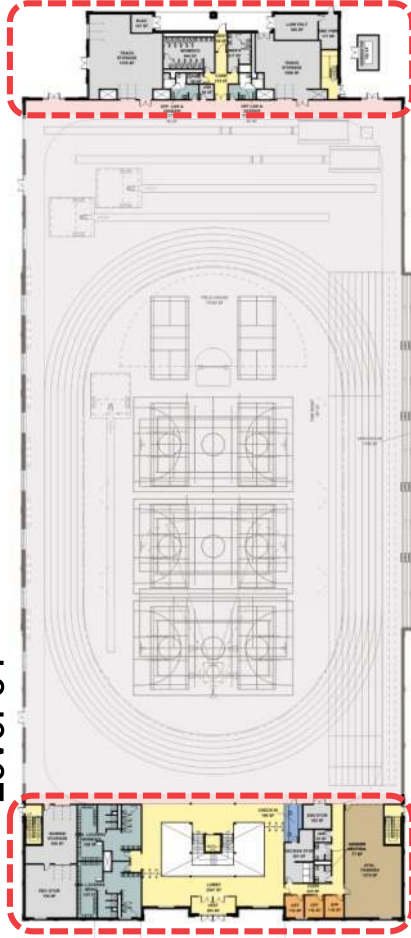
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1 | Fieldhouse – Level 1 Floor Plan

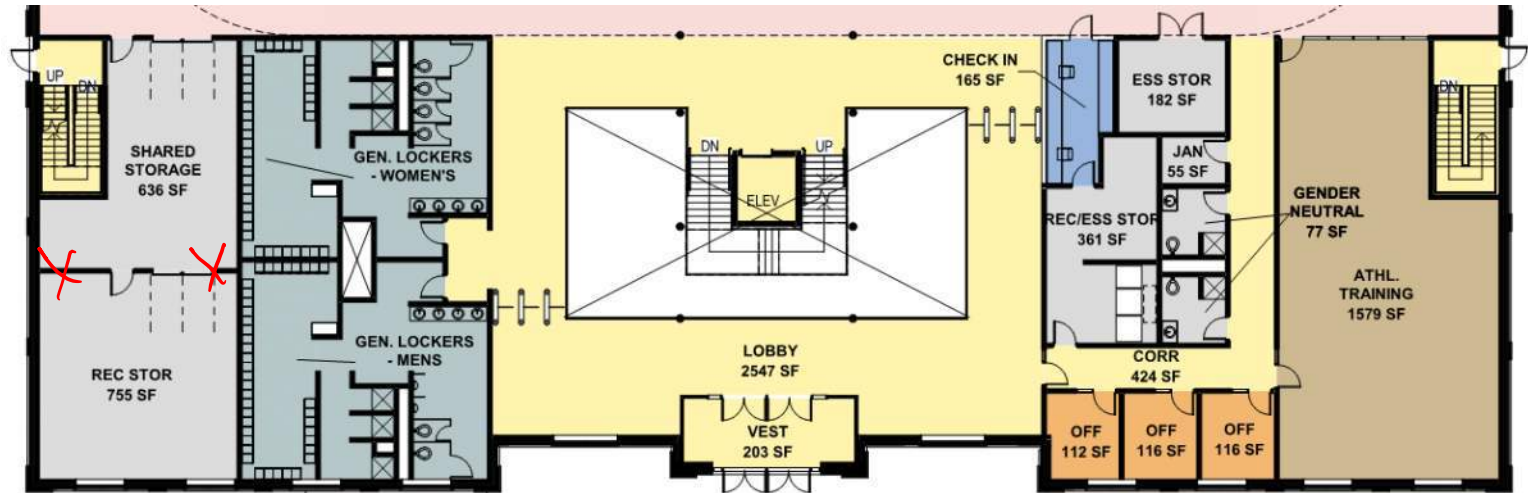
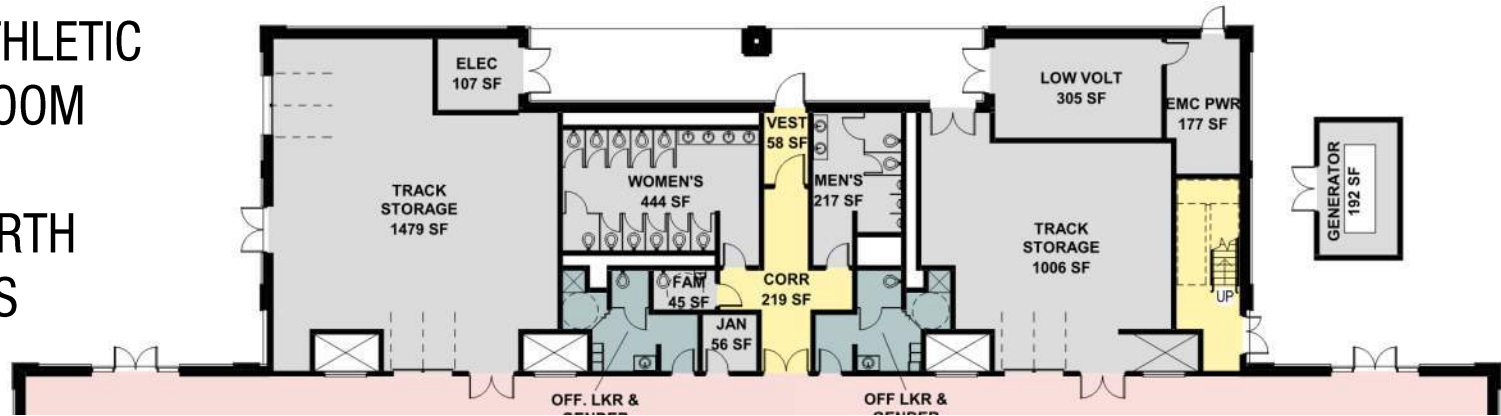


Level 01

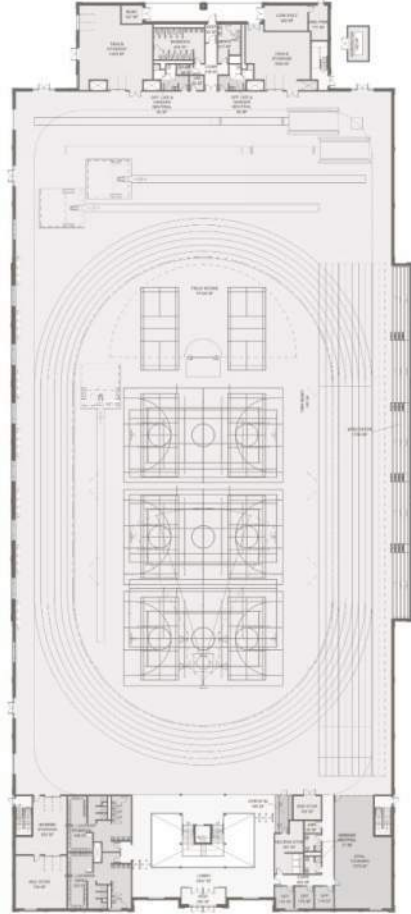


1 | Fieldhouse – Level 1 Floor Plan

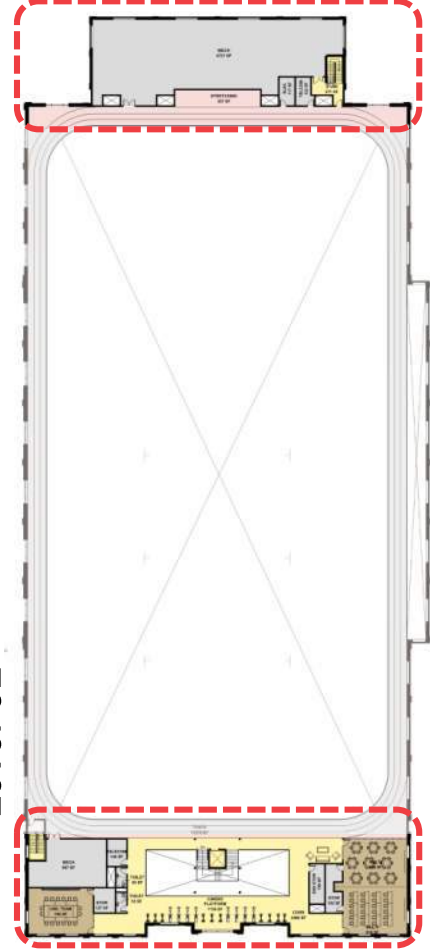
- 1,600 SF ATHLETIC TRAINING ROOM
- SHARED NORTH BATHROOMS



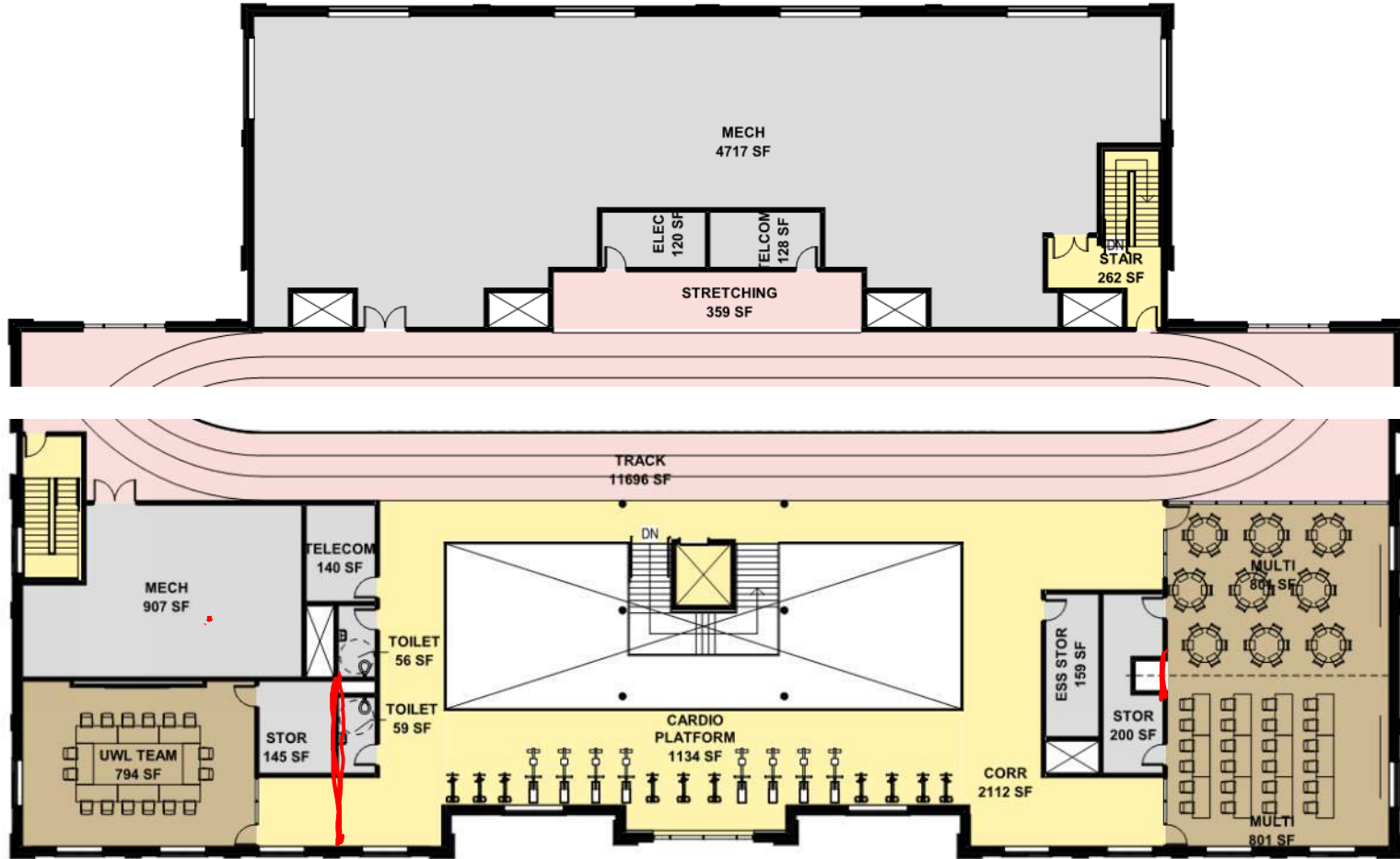
1 | Fieldhouse – Level 2 Floor Plan



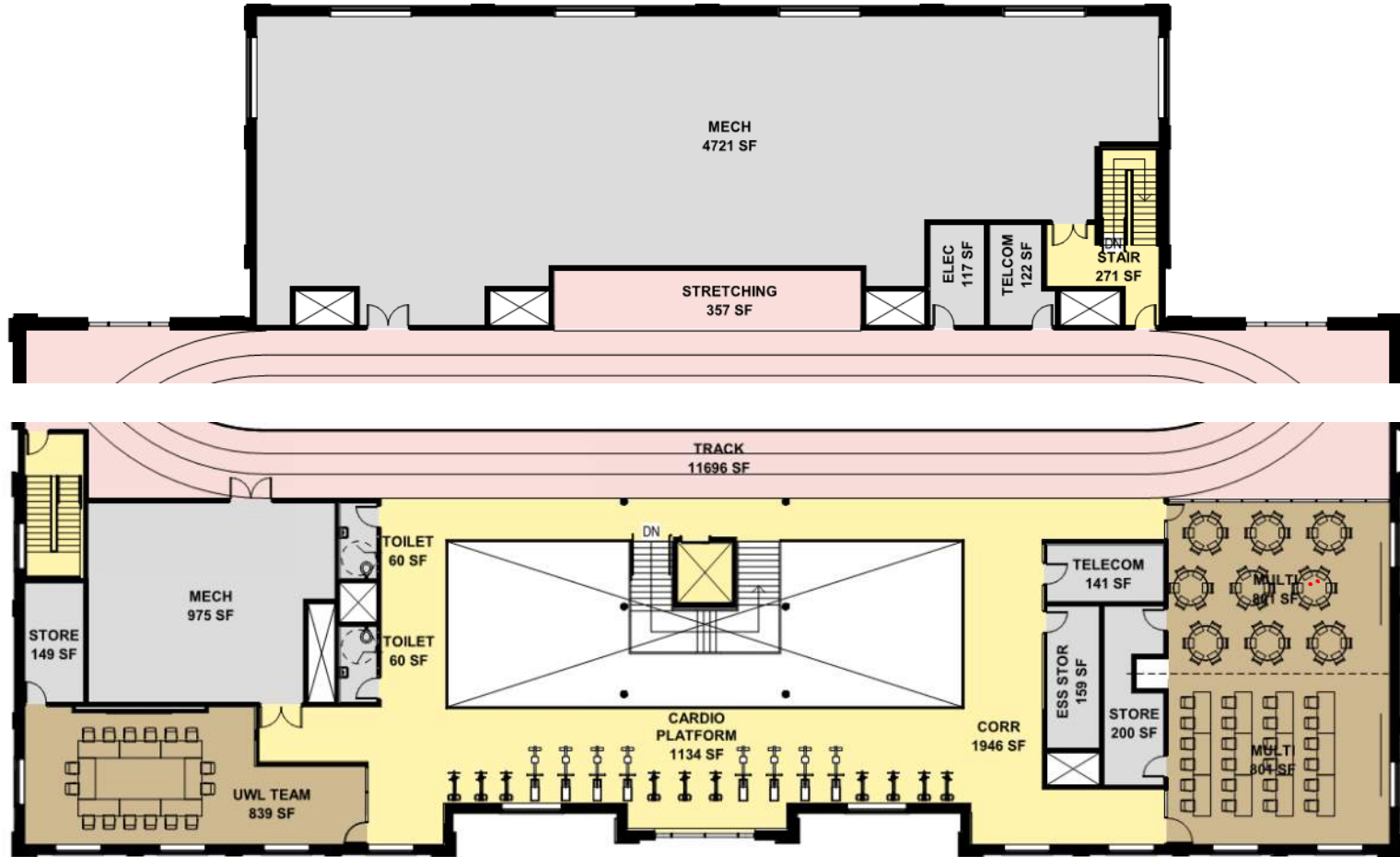
Level 02



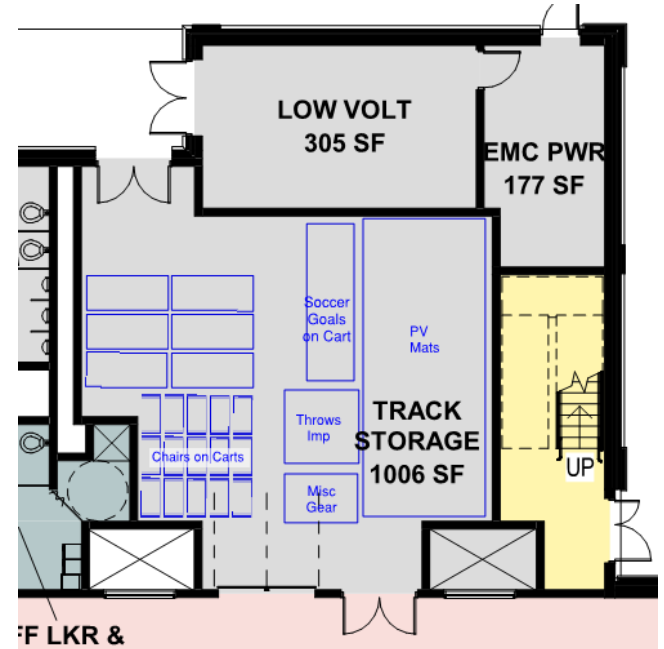
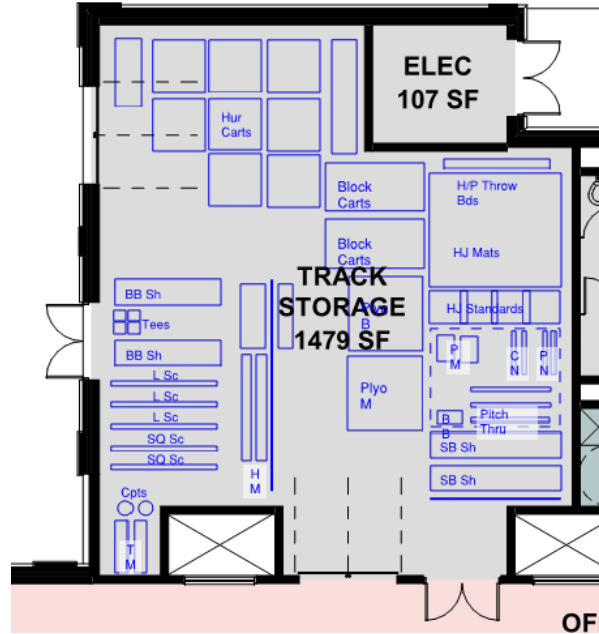
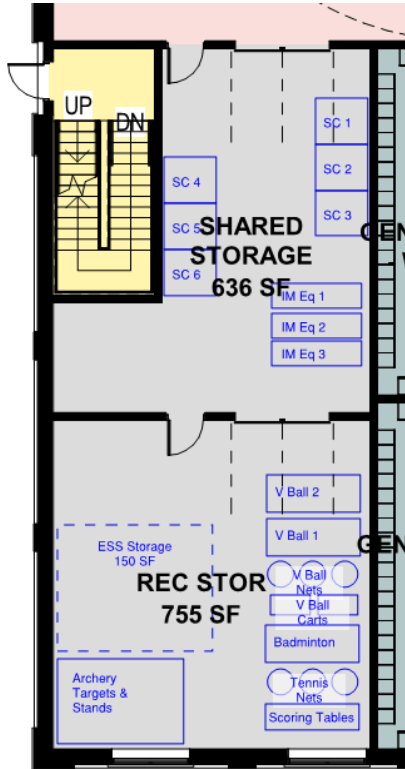
1 | Fieldhouse – Level 2 Floor Plan – As seen



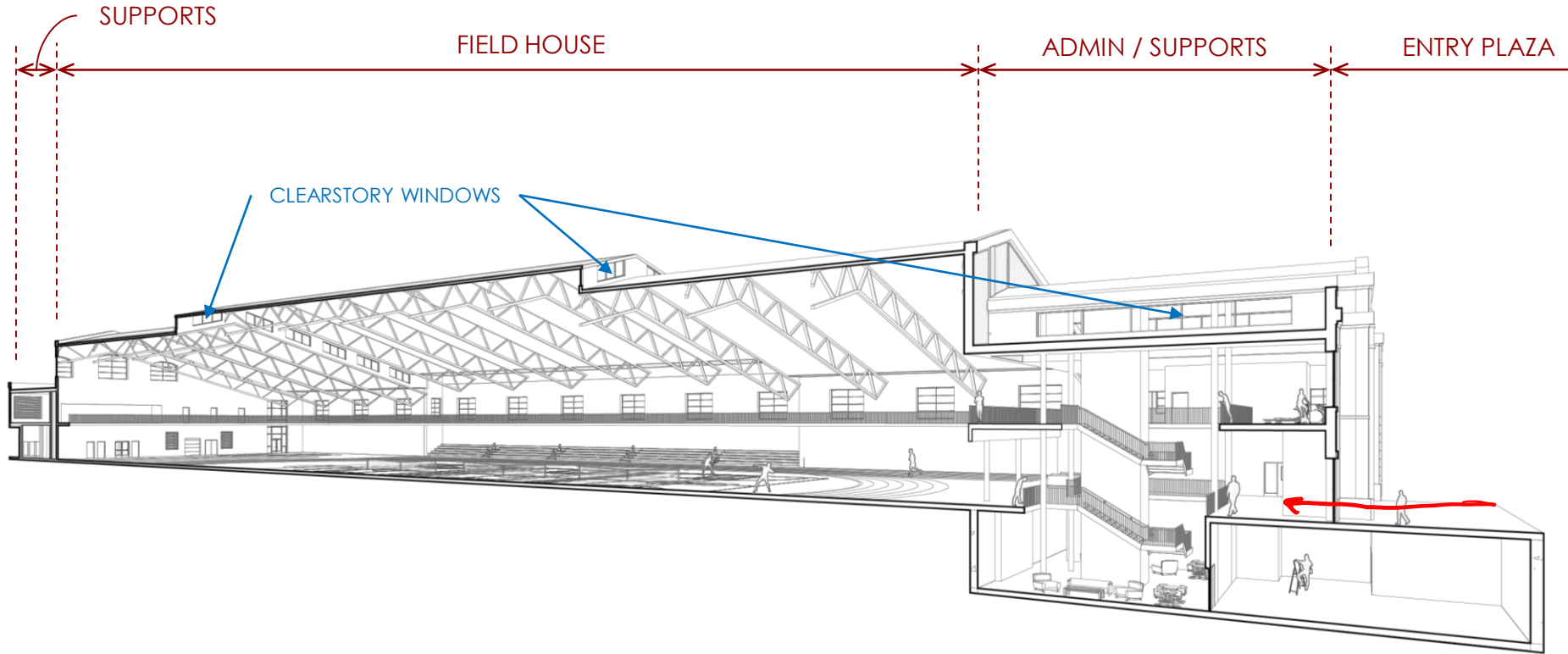
1 | Fieldhouse – Level 2 Floor Plan – Updated Progress



1 | Fieldhouse – Storage Review



1 | Fieldhouse - Section



DAY LIGHTING

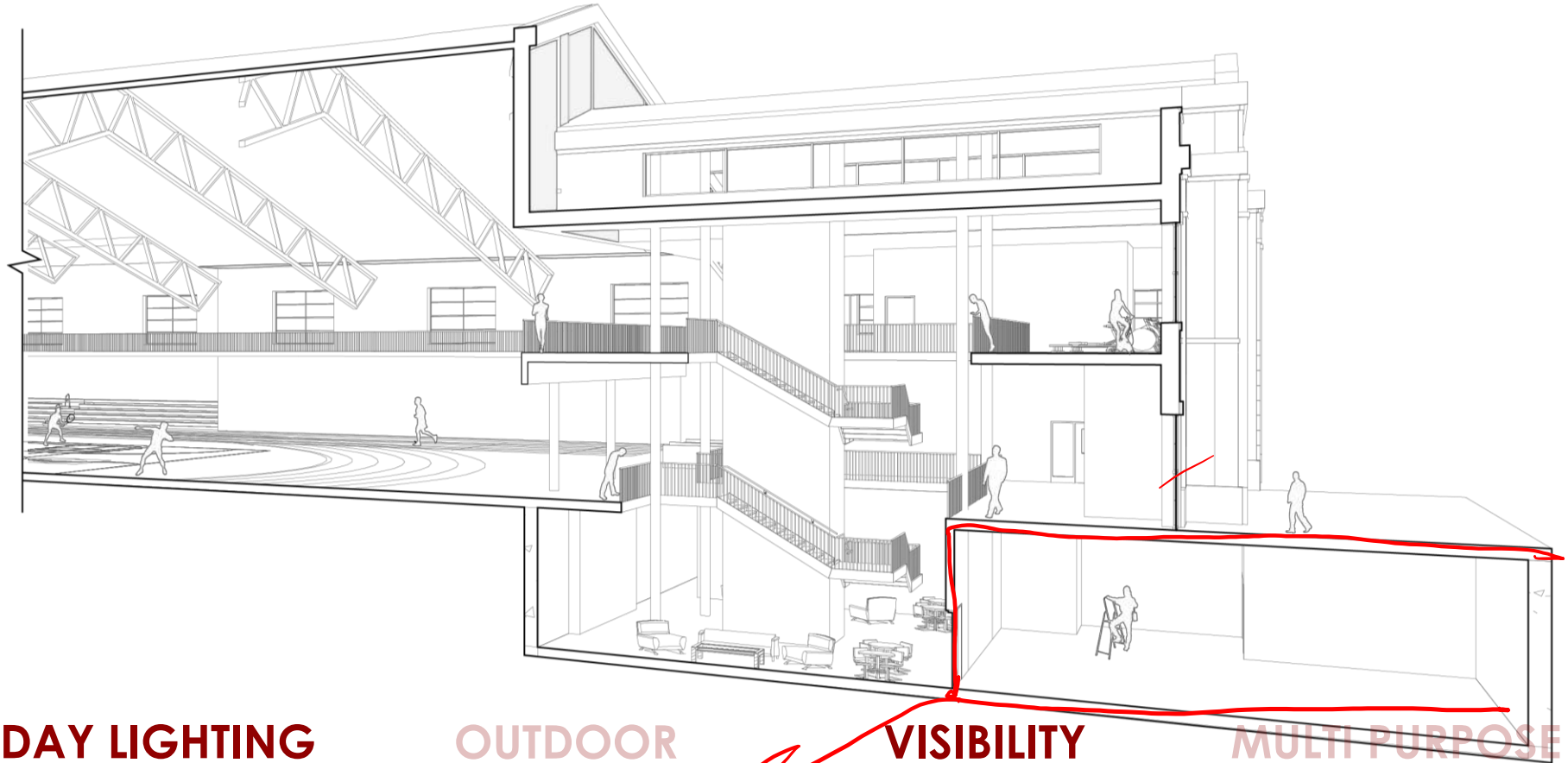
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Entry Section



DAY LIGHTING

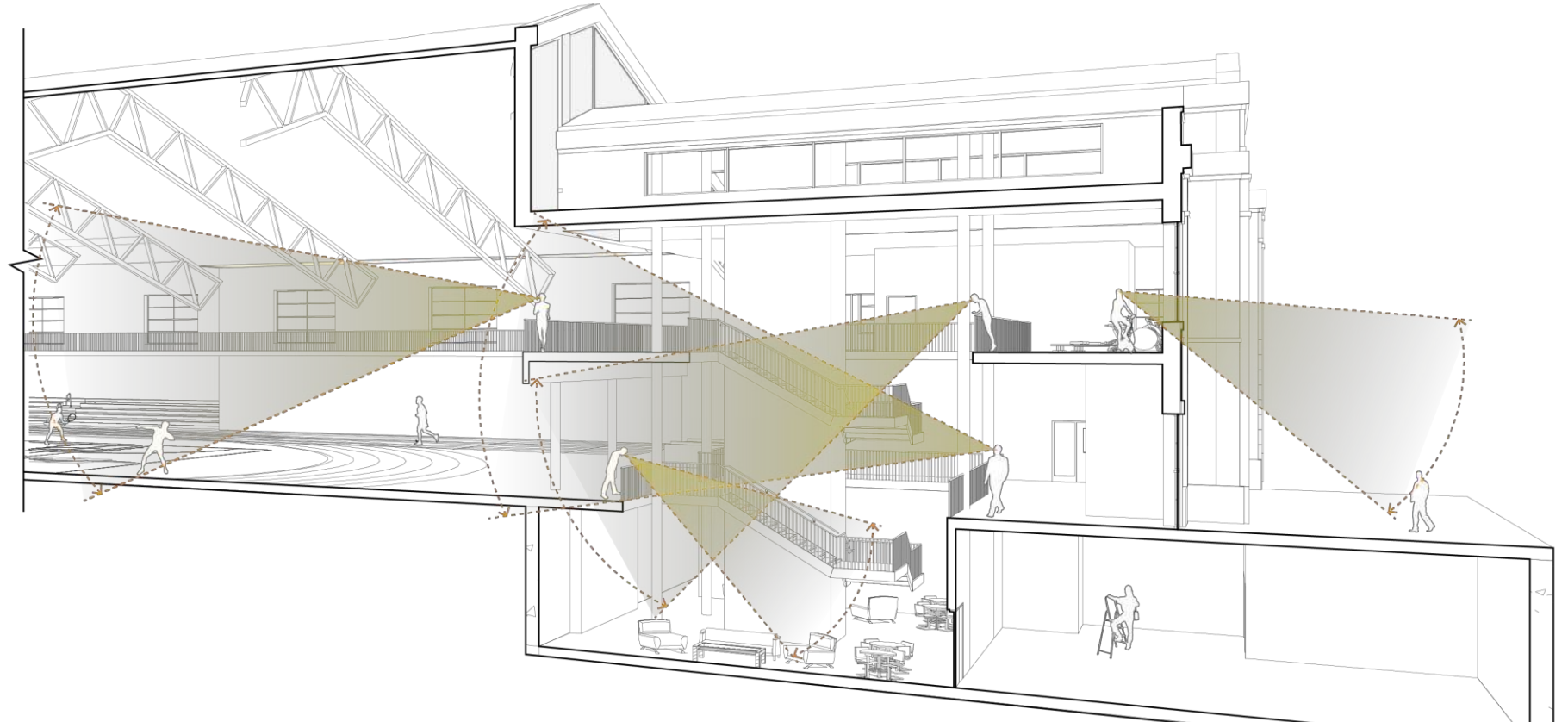
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse - Section



DAY LIGHTING

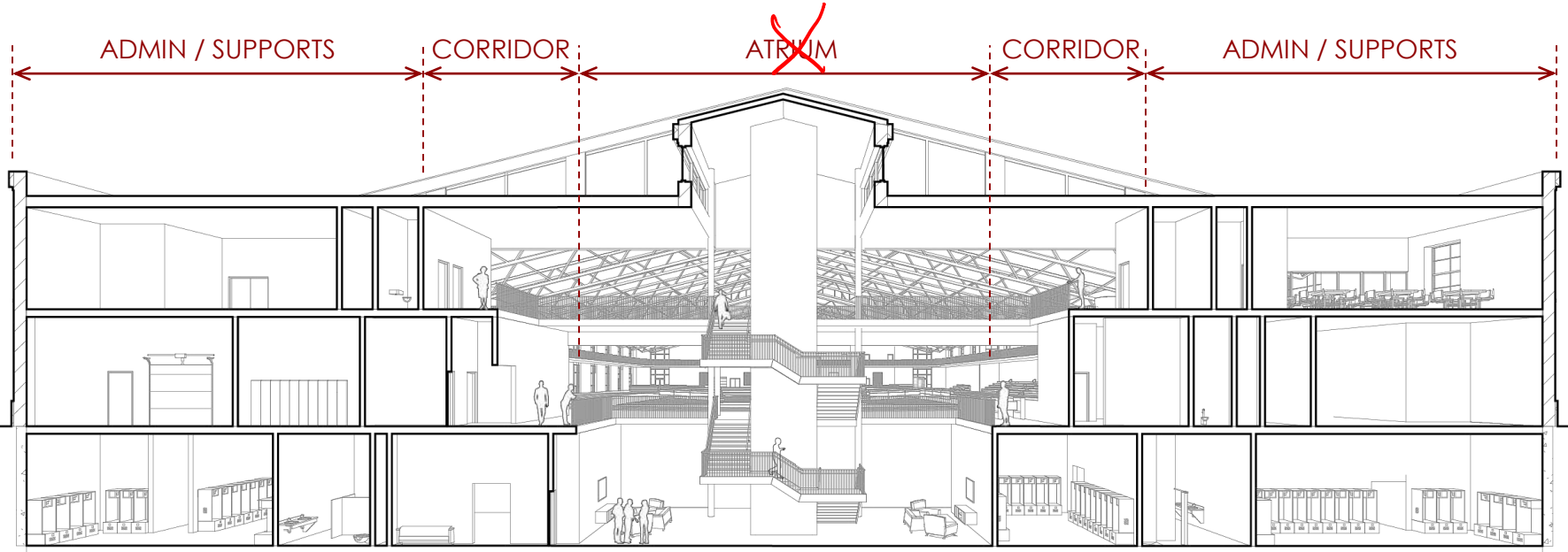
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Lobby Section



DAY LIGHTING

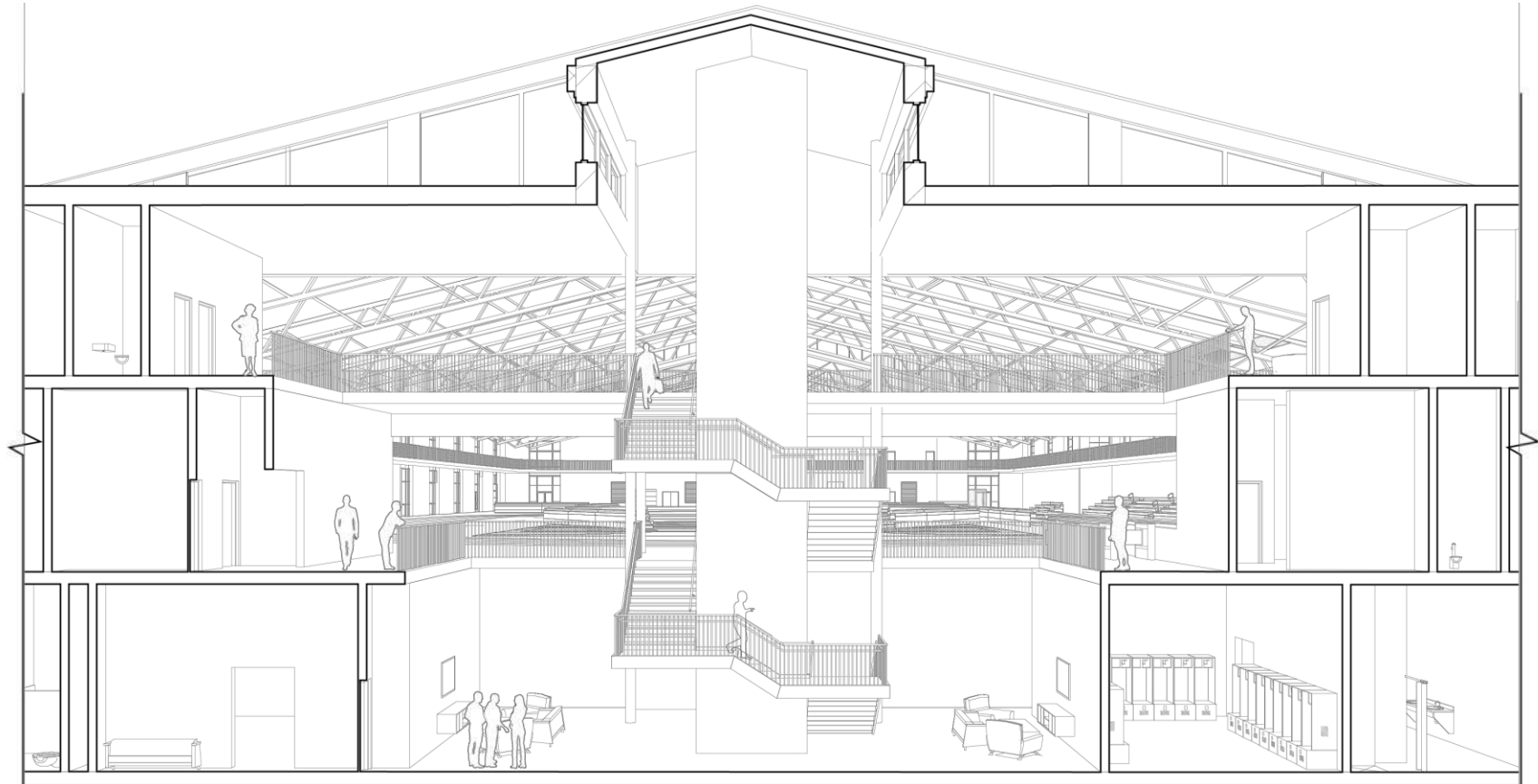
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – ~~Arrium~~ Section



DAY LIGHTING

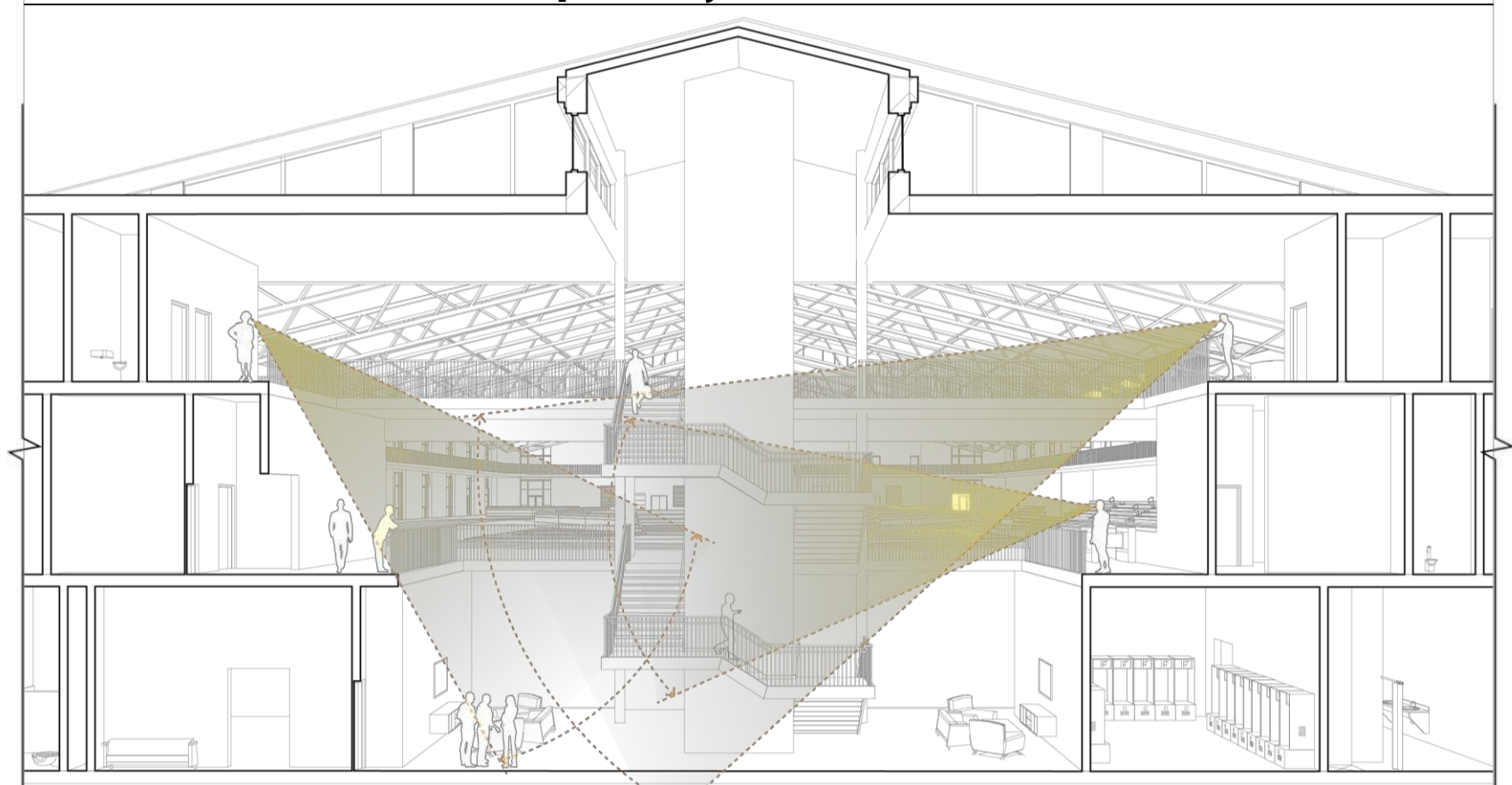
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Atrium Transparency



DAY LIGHTING

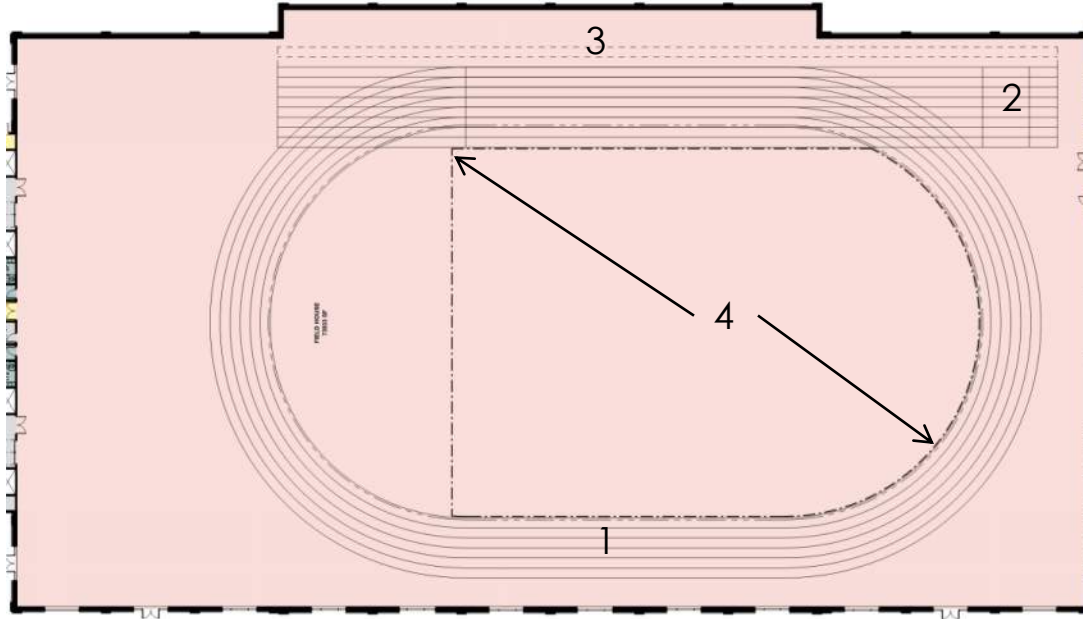
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Track Events



1. 200m Indoor Track
 1. 21m Radius
 2. 6 Lanes
 3. 42" Wide Lanes
2. 8 Straight Away Lanes
 1. 42" Wide Lanes
3. 2 Warm Up Lanes
4. Non Spikable Surface

DAY LIGHTING

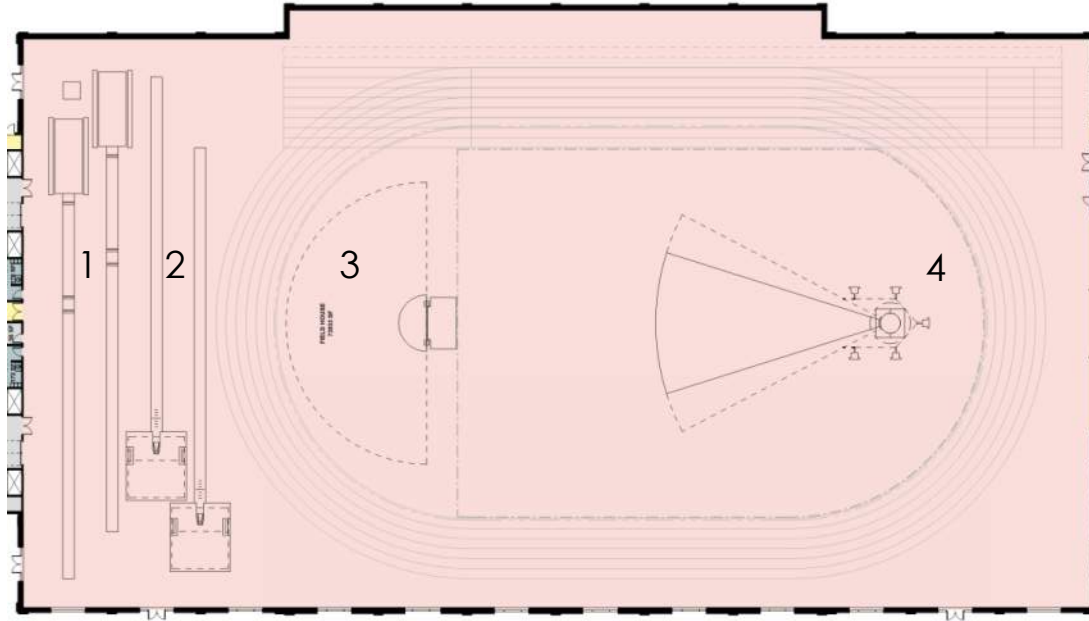
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Field Events



1. 2 Long / Triple Jumps
2. 2 Pole Vaults
3. High Jump
4. Movable Throws Cage (Shot Put, Weight)

DAY LIGHTING

OUTDOOR

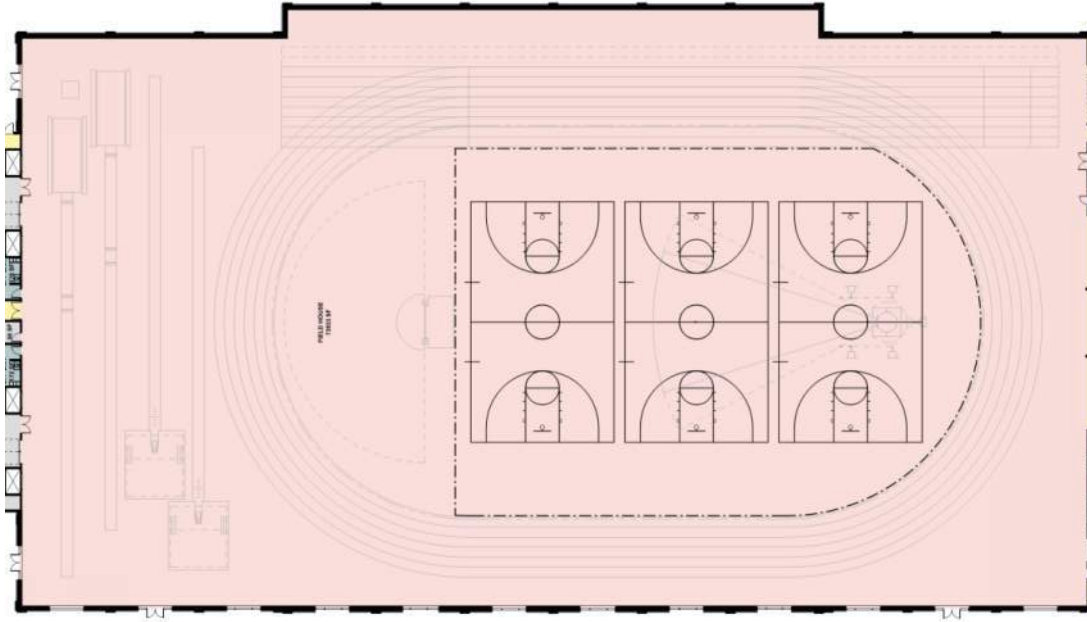
VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Recreation & Sport Clubs

- 3 Recreational Bball Courts



DAY LIGHTING

OUTDOOR

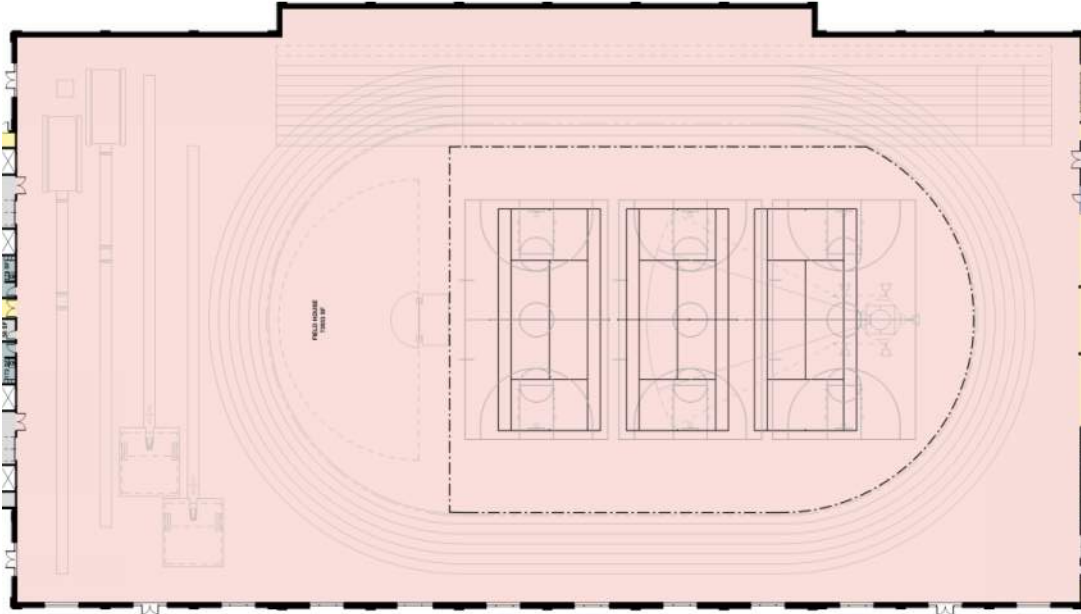
VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Recreation & Sport Clubs

- 3 Recreational Bball Courts
- 3 Tennis Courts



DAY LIGHTING

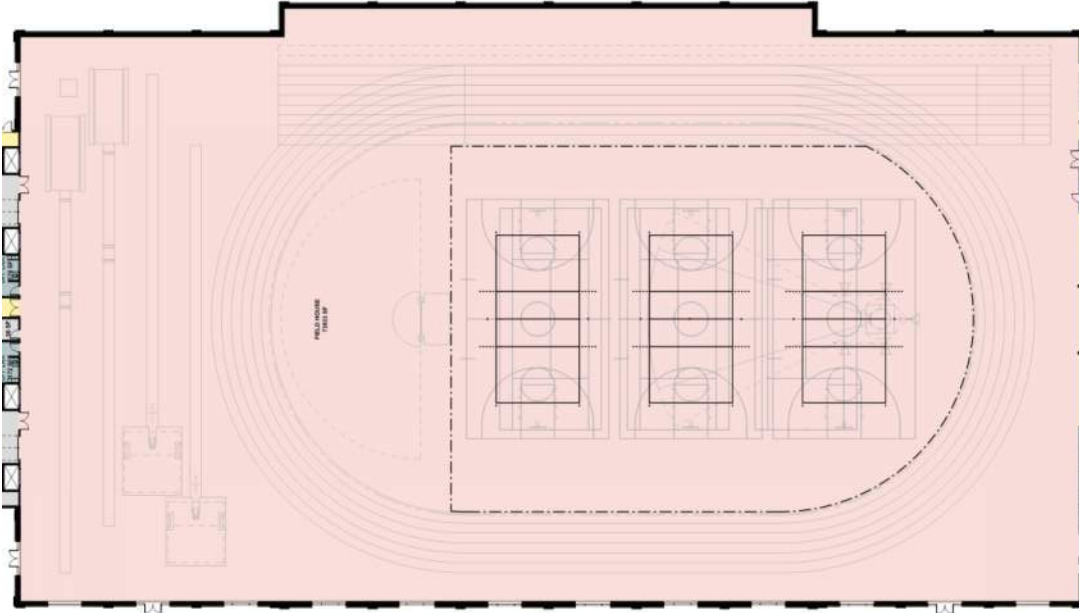
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Floor Plan



- 3 Recreational Bball Courts
- 3 Tennis Courts
- 3 Volleyball Courts

DAY LIGHTING

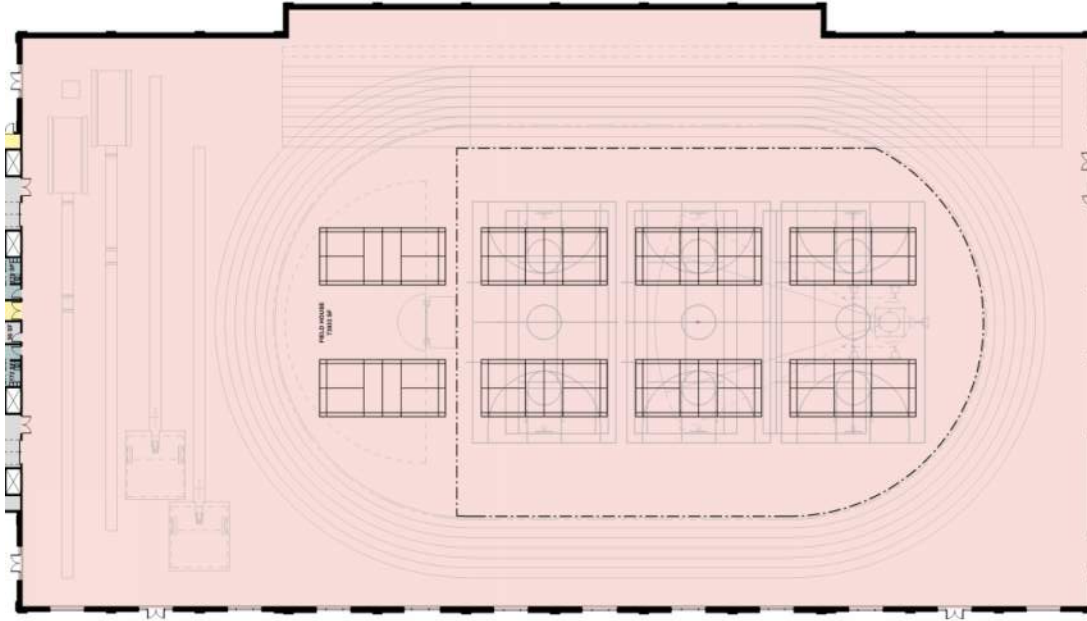
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Recreation & Sport Clubs



- 3 Recreational Bball Courts
- 3 Tennis Courts
- 3 Volleyball Courts
- 8 Badminton Courts
 - 6 within multipurpose
 - 2 within spikable area

DAY LIGHTING

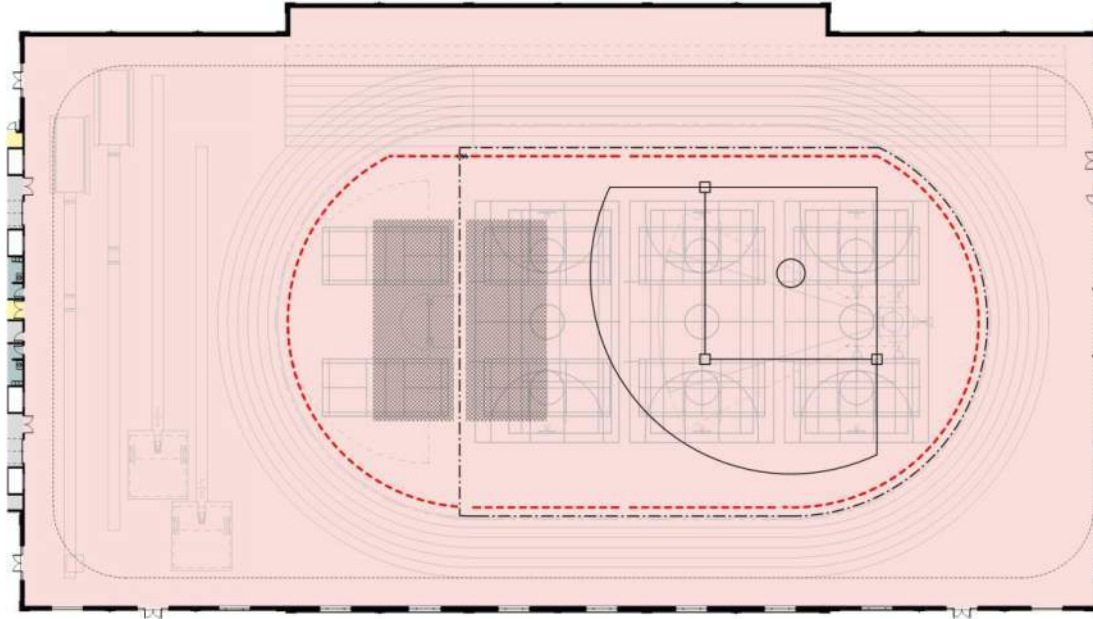
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Recreation & Sport Clubs



- 3 Recreational Bball Courts
- 3 Tennis Courts
- 3 Volleyball Courts
- 8 Badminton Courts
 - 6 within multipurpose
 - 2 within spikable area
- 2 Batting Cages (70' x 14'), Infield

DAY LIGHTING

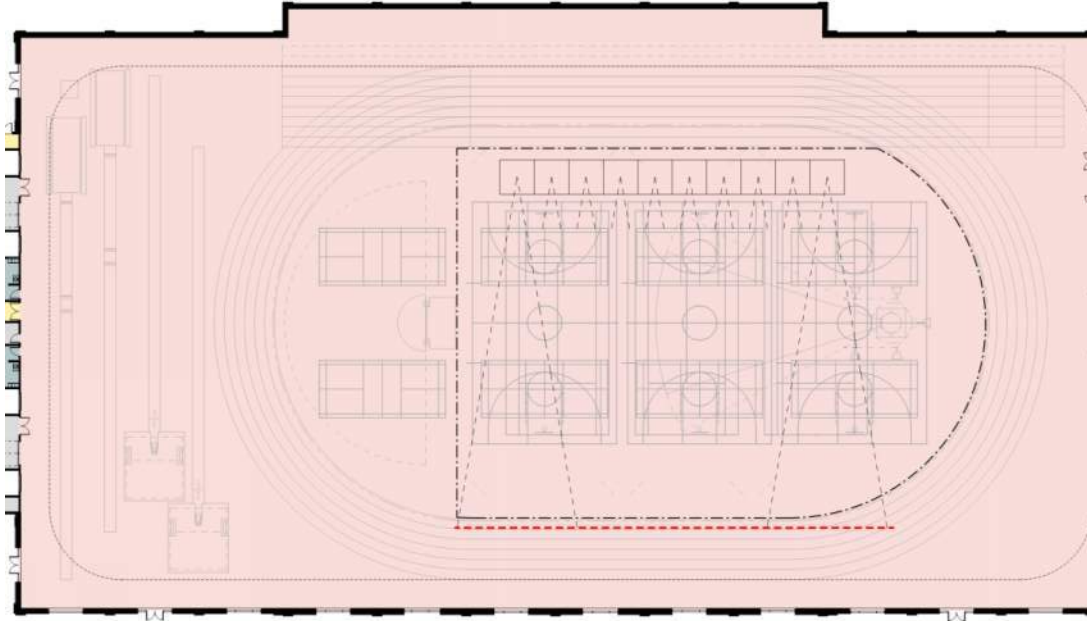
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Recreation & Sport Clubs



- 3 Recreational Bball Courts
- 3 Tennis Courts
- 3 Volleyball Courts
- 8 Badminton Courts
 - 6 within multipurpose
 - 2 within spikable area
- 2 Batting Cages (70' x 14'), Infield
- Golf Practice (10 Positions)

DAY LIGHTING

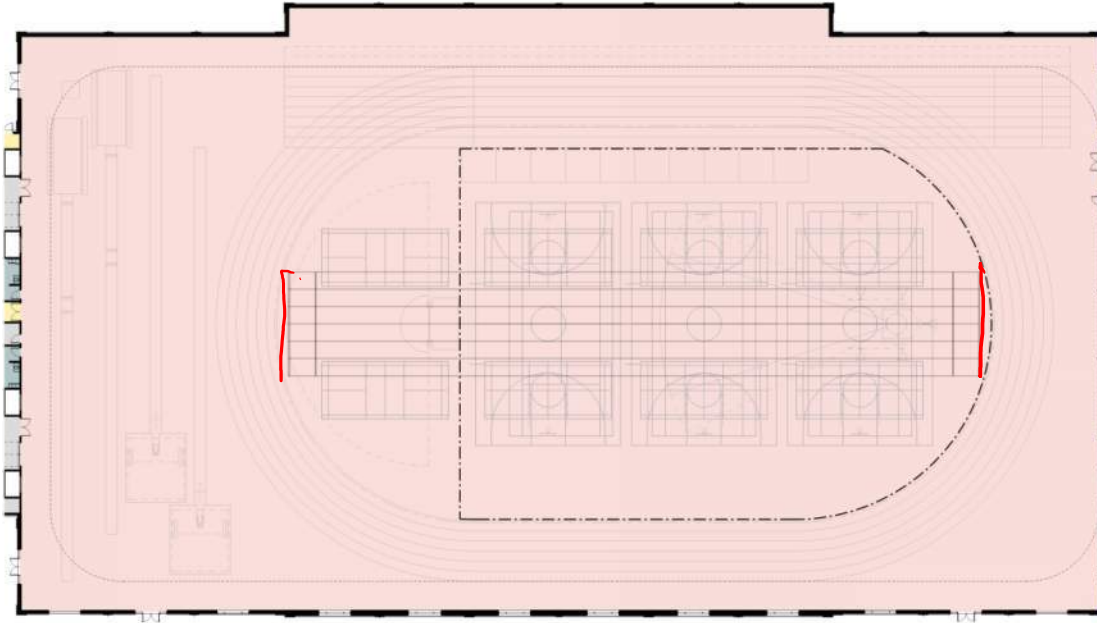
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Recreation & Sport Clubs



- 3 Recreational Bball Courts
- 3 Tennis Courts
- 3 Volleyball Courts
- 8 Badminton Courts
 - 6 within multipurpose
 - 2 within spikable area
- 2 Batting Cages (70' x 14'), Infield
- Golf Practice (10 Positions)
- Archery (6 Lanes @ 6' x 70M)

DAY LIGHTING

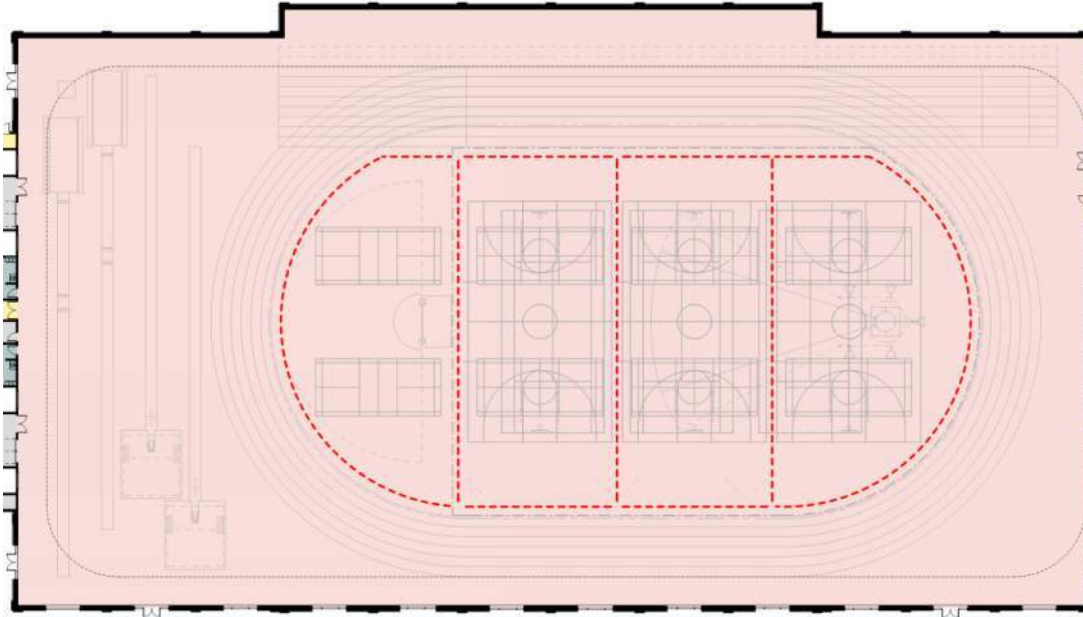
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Recreation & Sport Clubs



- 3 Recreational Bball Courts
- 3 Tennis Courts
- 3 Volleyball Courts
- 8 Badminton Courts
 - 6 within multipurpose
 - 2 within spikable area
- 2 Batting Cages (70' x 14'), Infield
- Golf Practice (10 Positions)
- Archery (6 Lanes @ 6' x 70M)
- Athletic Divider Curtains

DAY LIGHTING

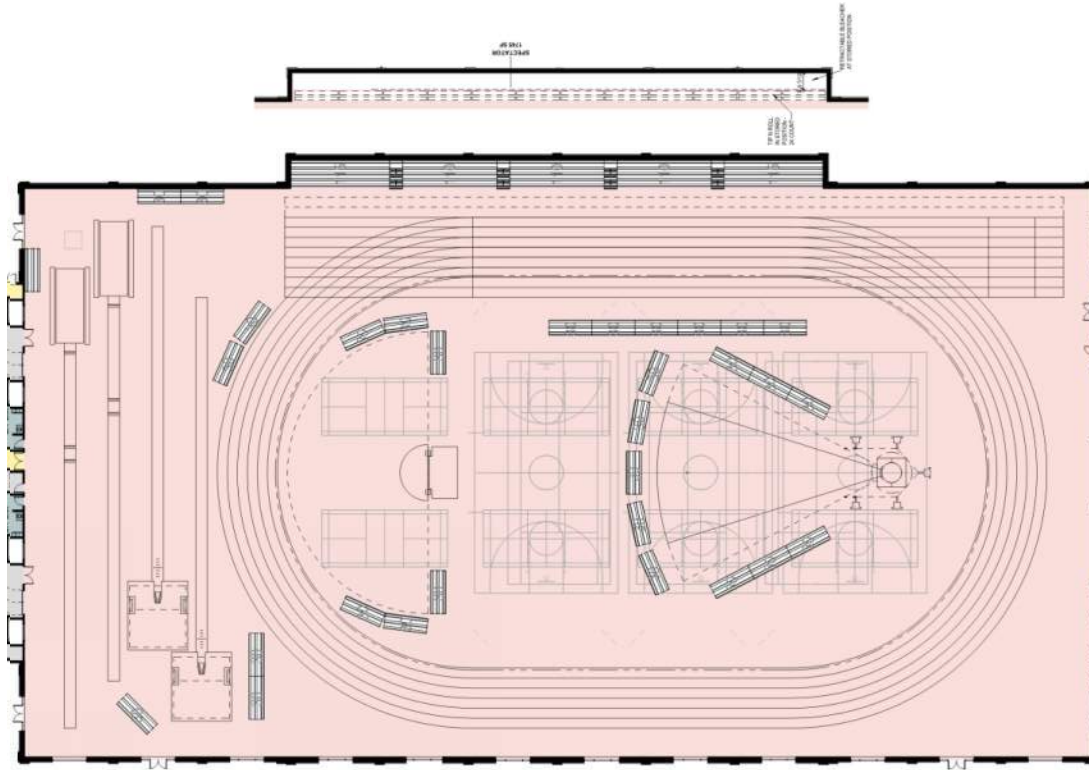
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Spectator Seating



- 1,500 Spectator Seating
 - 940 Tilt 'n Roll Bleachers
 - 560 Retractable Bleachers

DAY LIGHTING

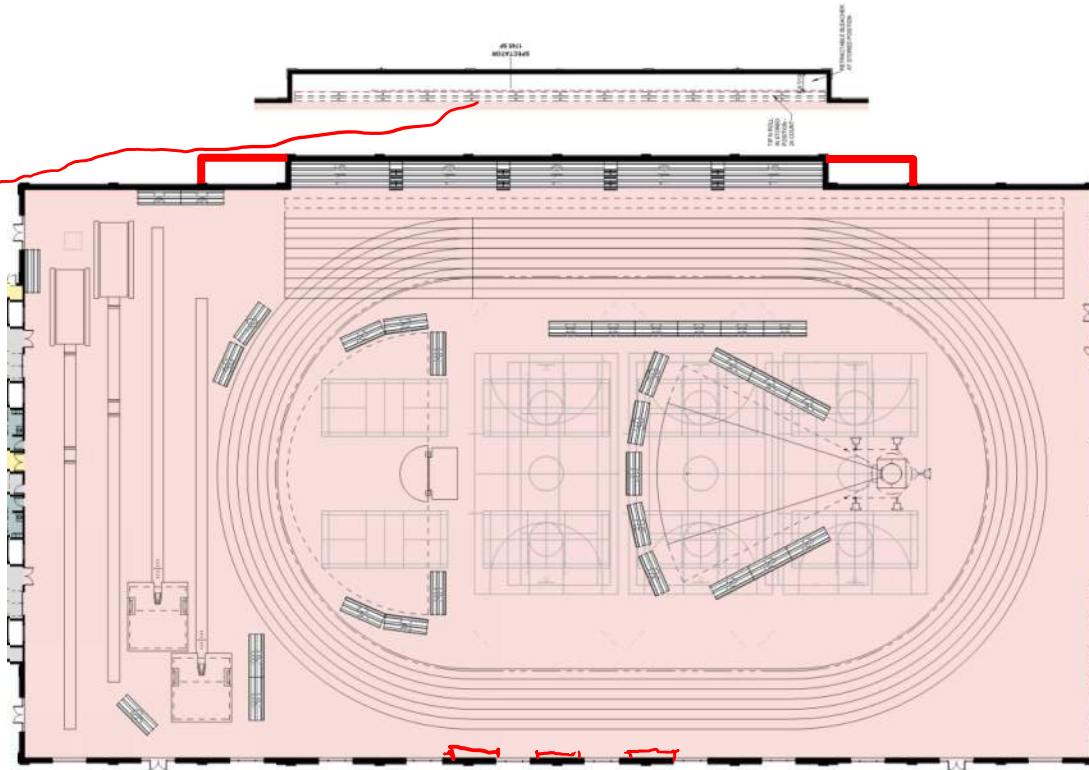
OUTDOOR

VISIBILITY

MULTI PURPOSE



1 | Fieldhouse – Spectator Seating



- 1,500 Spectator Seating
 - 940 Tilt 'N Roll Bleachers
 - 560 Retractable Bleachers
- Shoulder Bump Outs Will Add Approx. 220 Seats

18" o.c. ? TRKAT

DAY LIGHTING

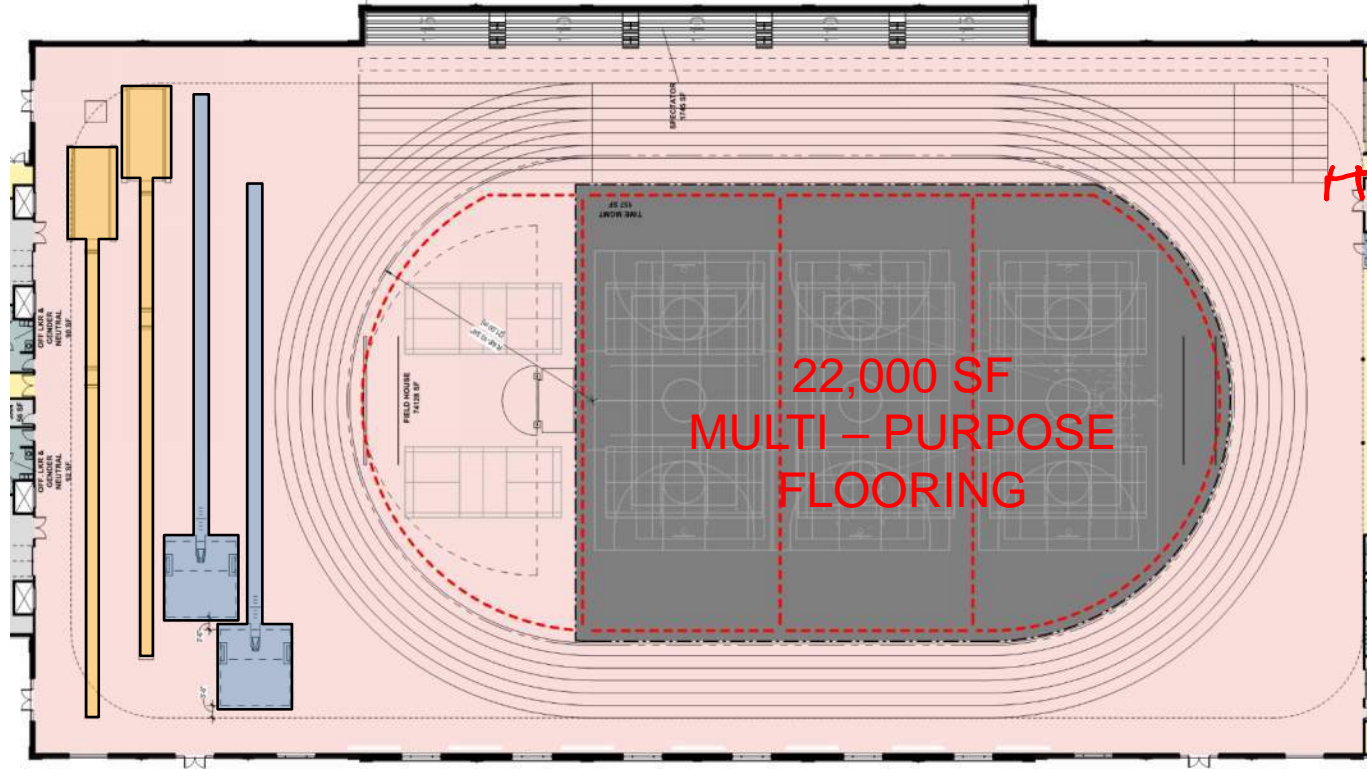
OUTDOOR

VISIBILITY

MULTI PURPOSE



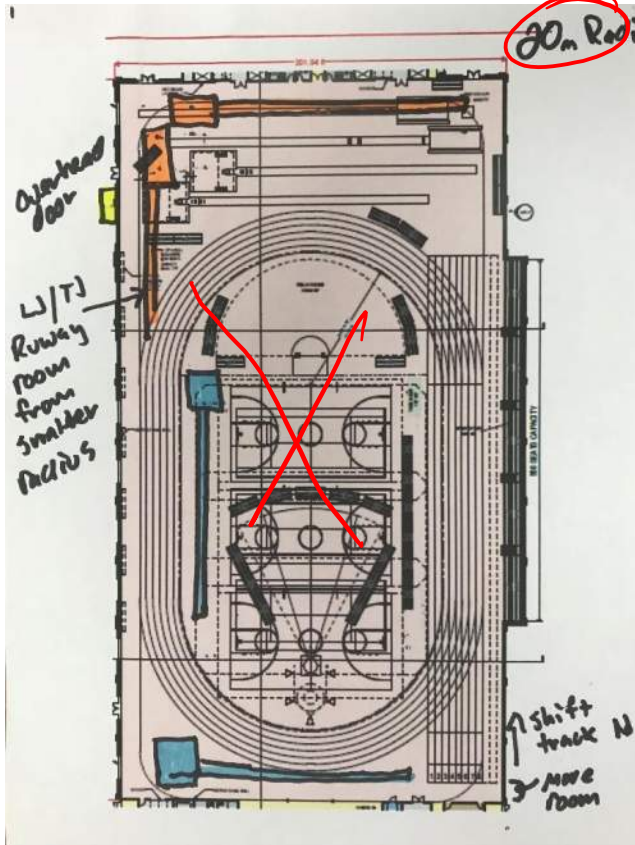
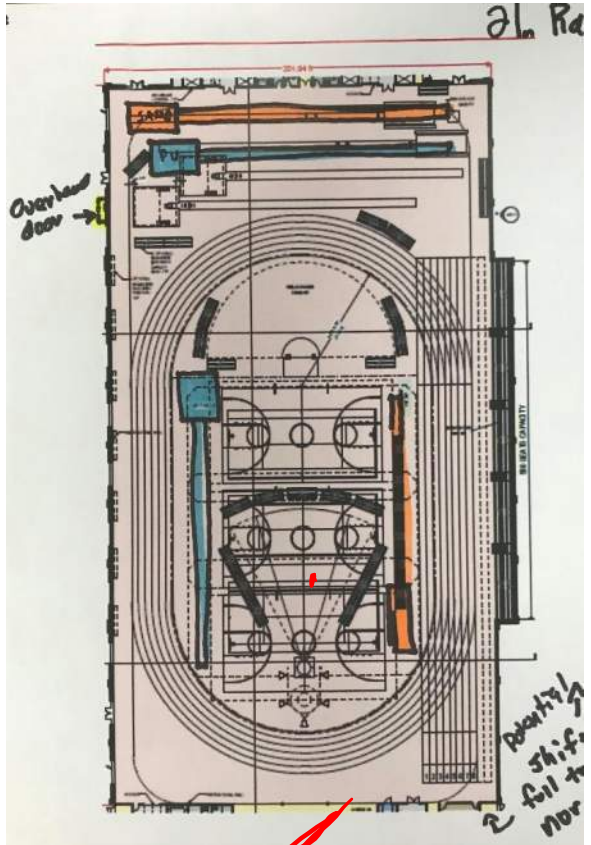
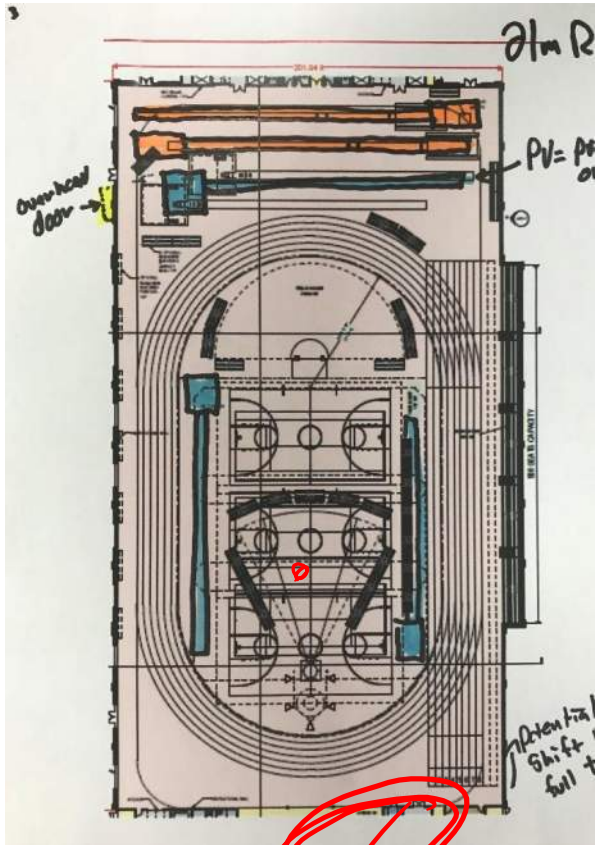
1 | Fieldhouse – Fieldhouse – 10% Design Layout



- 2 Competition / Practice Pole Vaults
- 2 Triple / Long Jumps
- Curtains Divide Rec Courts, As Well As Protect Multi – Purpose Flooring
- Fields Events Are Cramped
- Cramped At The Start of Straightaway



1 | Fieldhouse – March 21st Comments



DAY LIGHTING

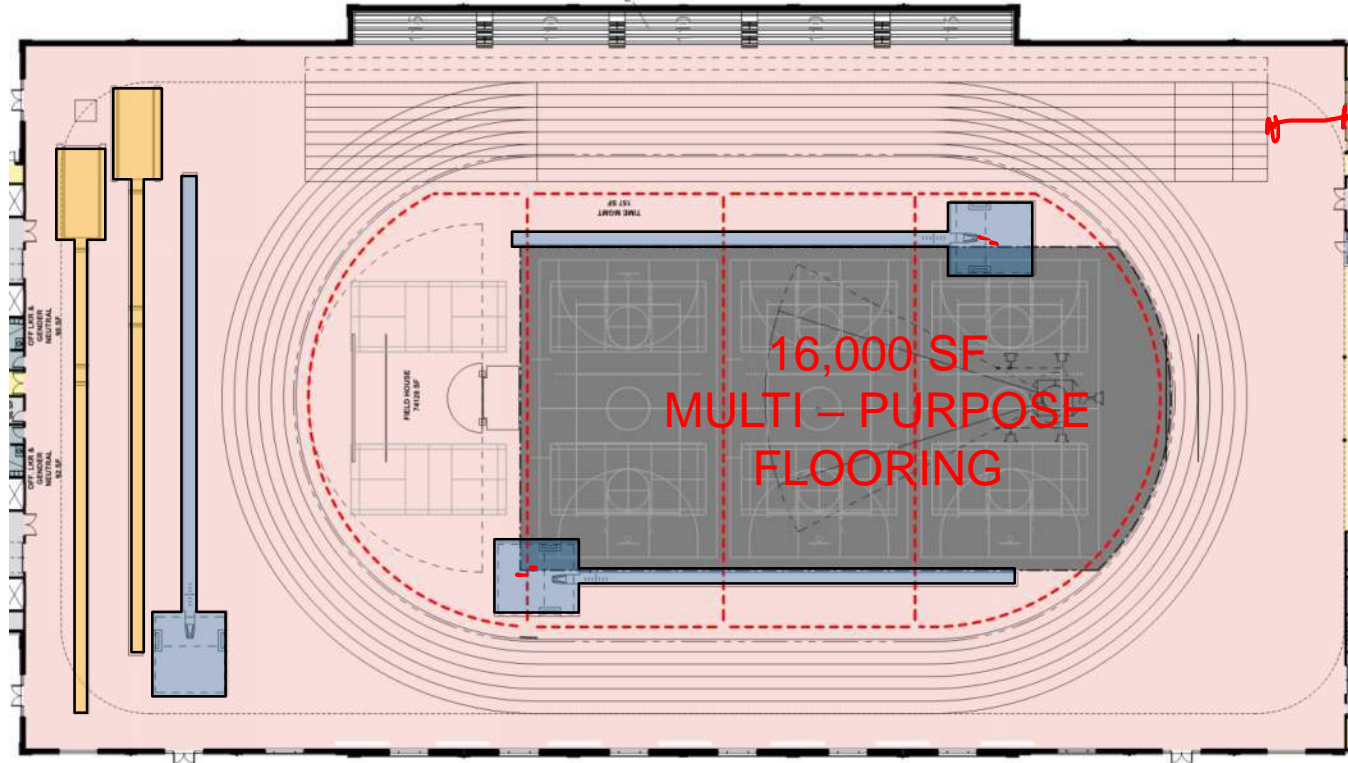
OUTDOOR

VISIBILITY

MULTI PURPOSE



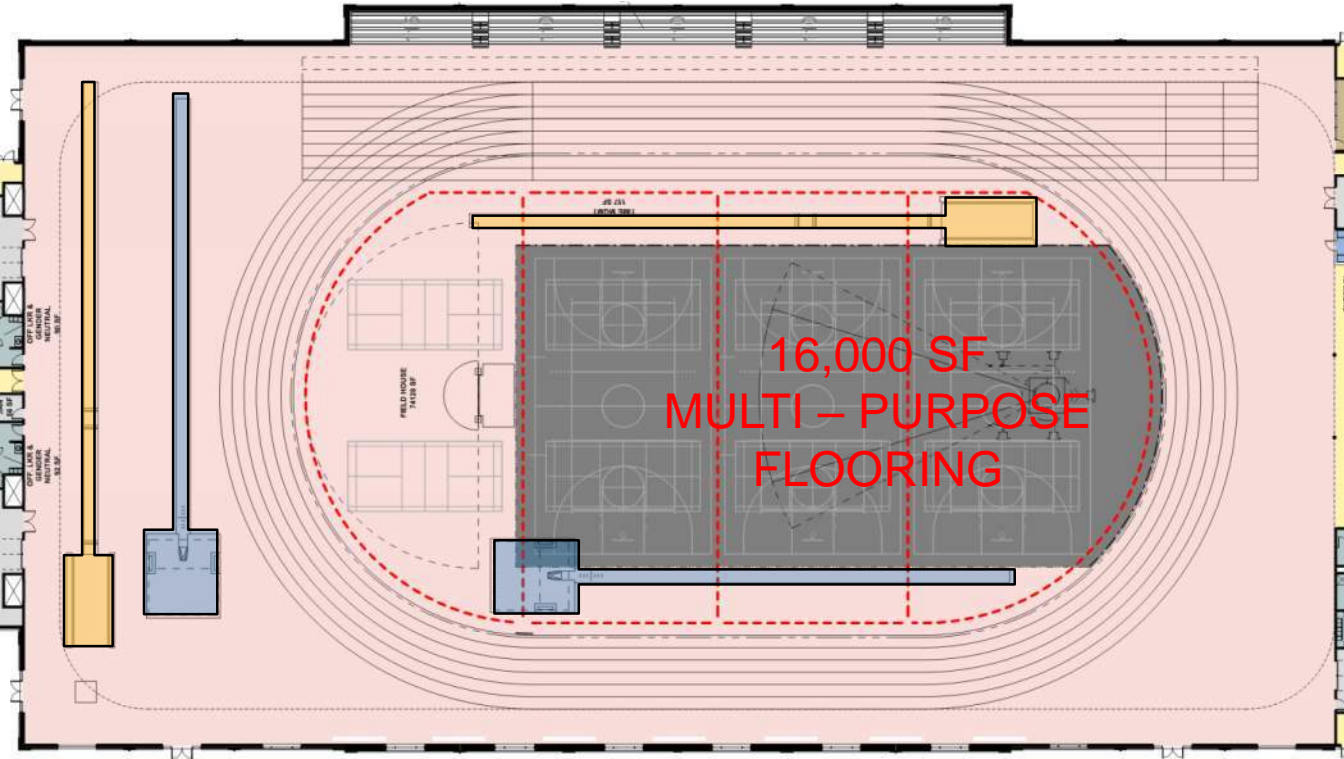
1 | Fieldhouse – Fieldhouse – Alternative Layout #1



- 1 Practice Pole Vault
- 2 Competition Pole Vaults
- 2 Triple / Long Jump
- Track shifts North 10'-0".
20'-0" clear at south end of 60M.
- Multi-purpose Surface
Decreased By 6,000 SF
- Curtains Does Not Effectively
Protect Multi-purpose
Surface



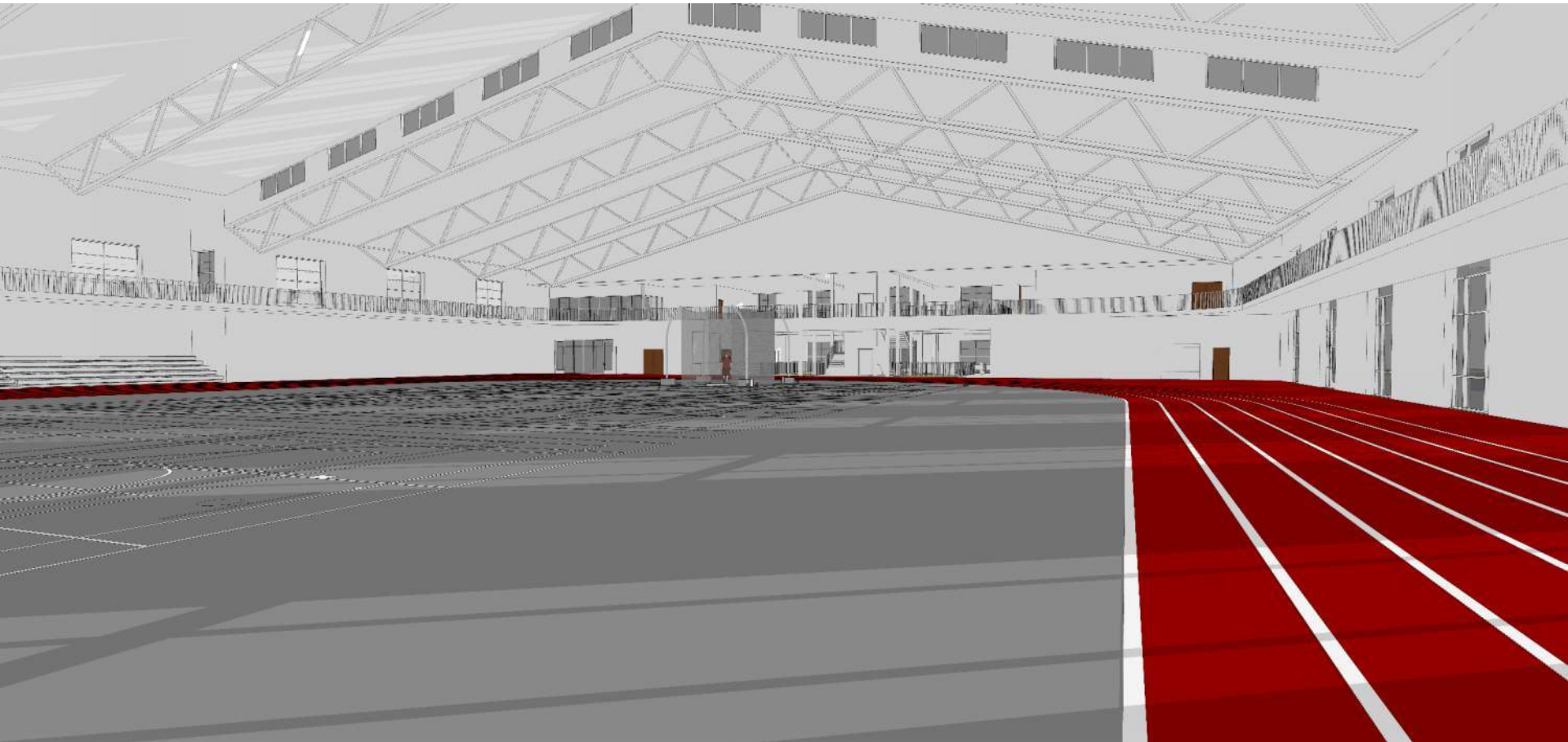
1 | Fieldhouse – Fieldhouse – Alternative Layout #2



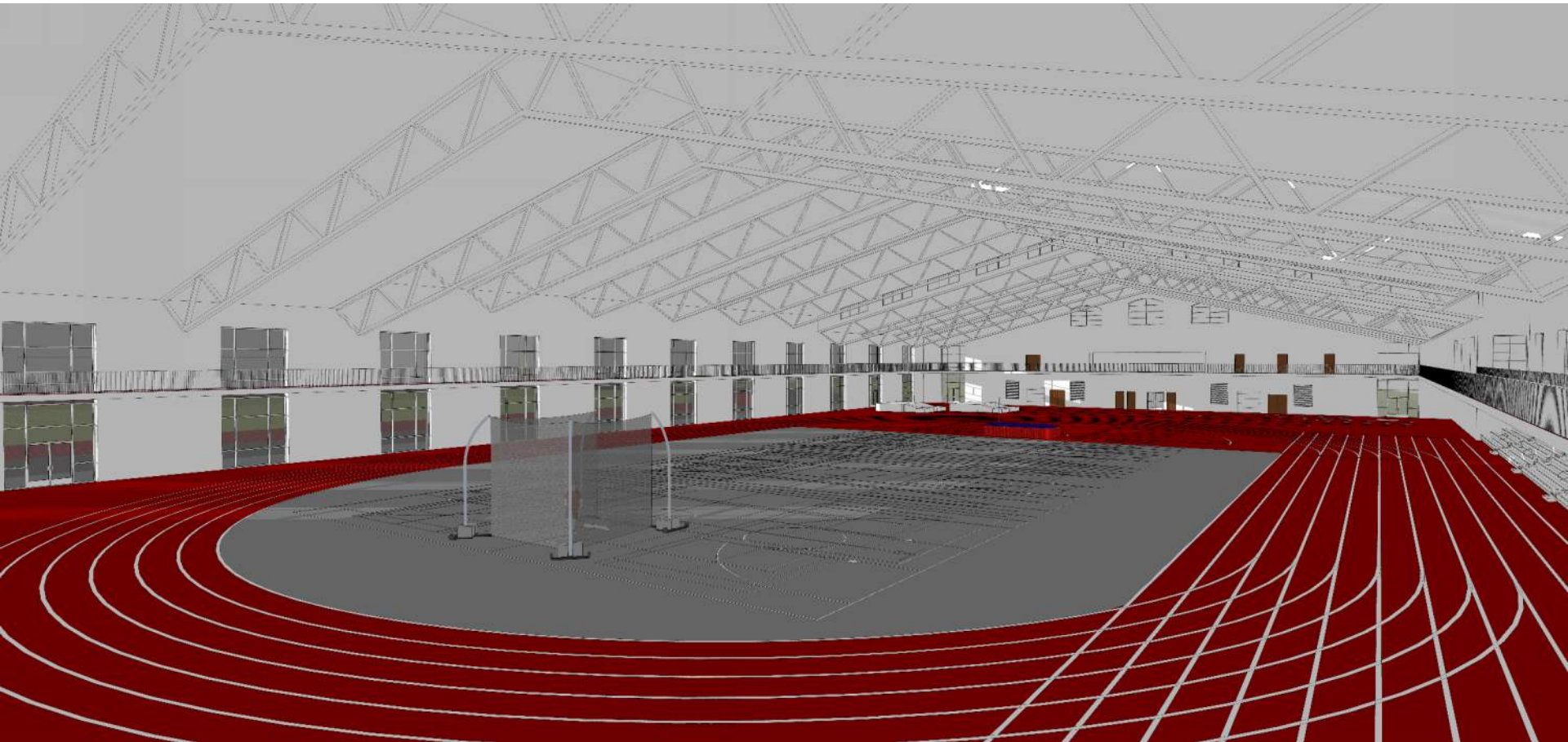
- 2 Pole Vaults
- 2 Triple / Long Jumps
- Additional clear space at start of straight away
- Track shifts North 10'-0".
20'-0" clear at south end of 60M.
- Multi-purpose Surface
Decreased By 6,000 SF
- Curtains Does Not Effectively
Protect Multi-purpose
Surface



1 | Fieldhouse – Interior



1 | Fieldhouse – Interior



1 | Fieldhouse - Context



1 | Fieldhouse - Elevations



SOUTH ELEVATION

NORTH ELEVATION

SYMMETRY

PROPORTION

MATERIALITY

SCALE

1 | Fieldhouse - Elevations



SOUTH ELEVATION

NORTH ELEVATION

SYMMETRY

PROPORTION

MATERIALITY

SCALE



1 | Fieldhouse - Elevations



SOUTH ELEVATION

SYMMETRY

PROPORTION

MATERIALITY

SCALE



1 | Fieldhouse - Elevations



WEST ELEVATION

SYMMETRY

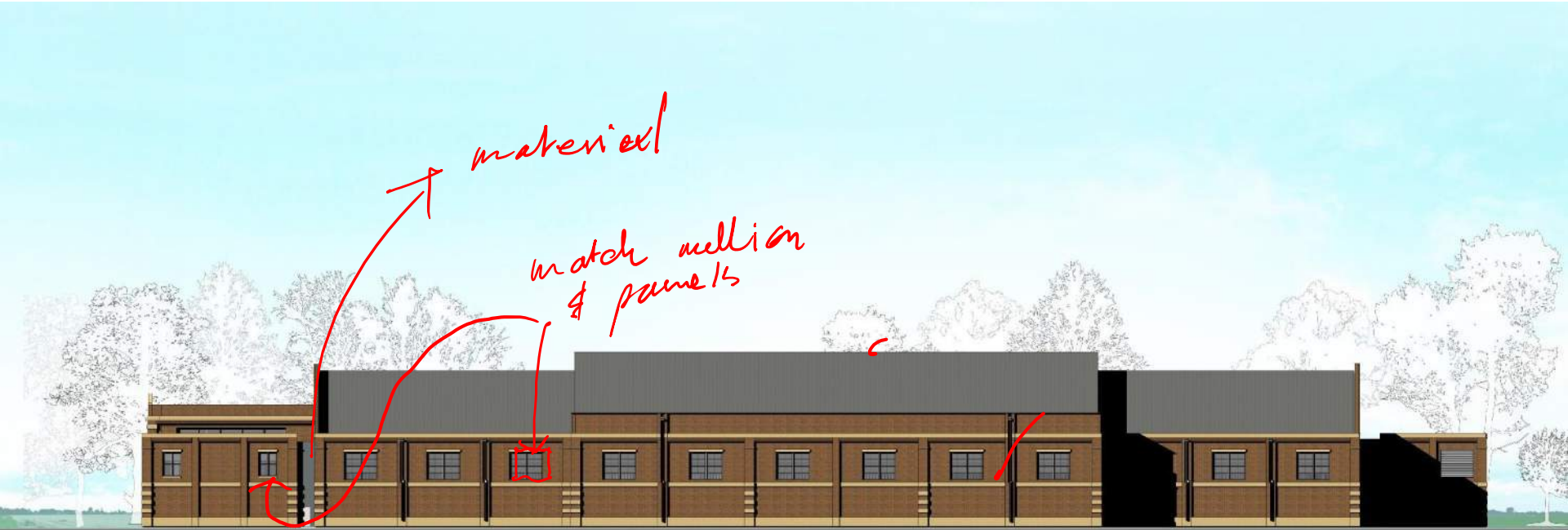
PROPORTION

MATERIALITY

SCALE



1 | Fieldhouse - Elevations



EAST ELEVATION

SYMMETRY

PROPORTION

MATERIALITY

SCALE



1 | Fieldhouse - Elevations

LOW SLOPE ROOF, w/ CLEARSTORY

BRICK VENEER CAVITY WALL
WITH CMU BACK UP

METAL PANEL FASCIA
(MINOR LOCATIONS)

THERMALLY EFFICIENT
STOREFRONT GLAZING

CAST STONE CORNICE,
QUOINS, TRIM, &
WATERTABLE



SYMMETRY

PROPORTION

MATERIALITY

SCALE



1 | Fieldhouse - Elevations

LOW SLOPE ROOF, w/ CLEARSTORY

BRICK VENEER CAVITY WALL
WITH CMU BACK UP

METAL PANEL FASCIA
(MINOR LOCATIONS)

THERMALLY EFFICIENT
STOREFRONT GLAZING

CAST STONE CORNICE,
QUOINS, TRIM, &
WATERTABLE



SYMMETRY

PROPORTION

MATERIALITY

SCALE




2 | Soccer Support



Soccer Support – Updated Programs

LEVEL 1

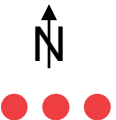
- ~~Men's~~ Team Room: 400 SF
- ~~Women's~~ Team Room: 400 SF
- Gender Neutral Restroom: 200 NSF X (2) 
- Coach/Official Room: 150 SF
- Storage: 150 SF Rec Storage
300 SF Soccer / Lacrosse Storage

LEVEL 2

- Press Box: 300 SF
- Filming Platform: 200 SF



Soccer Support – Site Plan



2 | Soccer Support – Axon South East



2 | Soccer Support – Axon South East



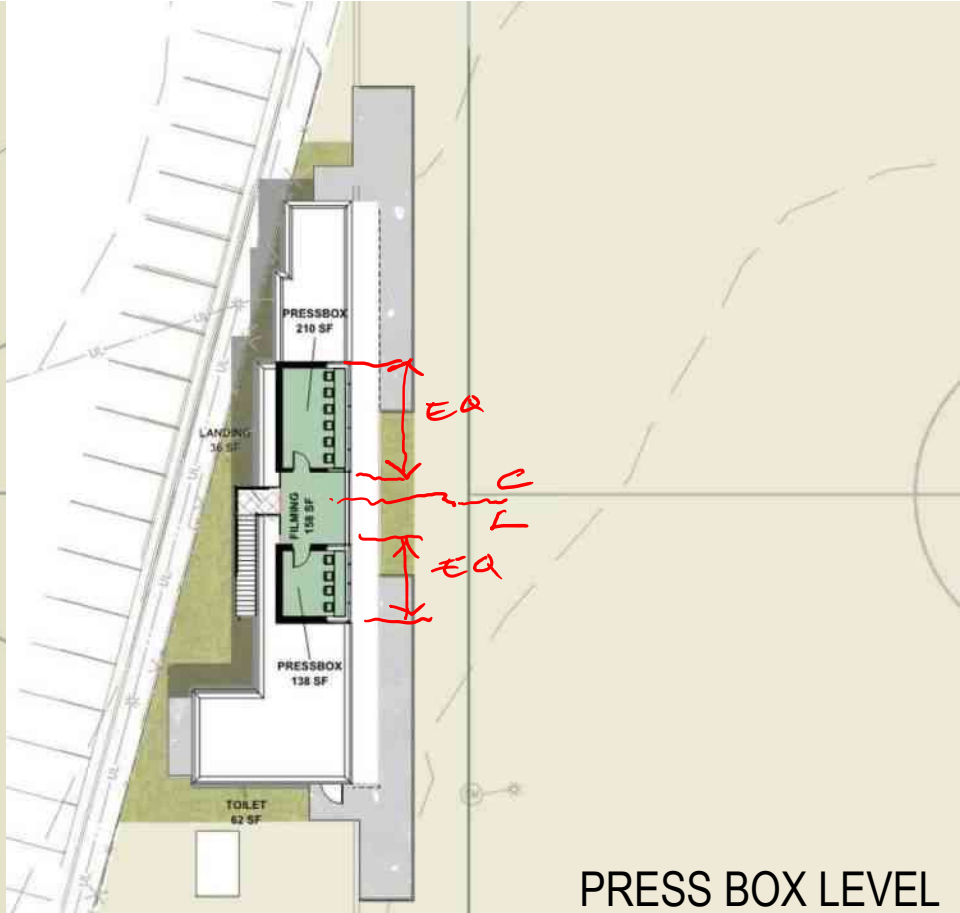
2 | Soccer Support – Floor Plans



Main Level: 1,900 GSF
Upper Level: 650 GSF
Total Building: **2,550 GSF**



2 | Soccer Support – Floor Plans



1 | Fieldhouse – Exterior



1 | Fieldhouse – Exterior



1 | Fieldhouse – Exterior



1 | Fieldhouse – Exterior



Student Field House and Soccer Support Facility



Background

Timeline

- Planning
 - Fall 2
- Schematic Design
 - Spring
- 10% Peer Review & Discussion
 - March 1
- Coaches Review Meeting
 - March 2
- . . . Pause . . .
- Project Restart
 - Sep 25

Project Approvals

- State Funding?
- DFD Approval?
- UWL Approval?





10% Peer Review & Discussion

15 Action Items & Recommendations

Windows, Control of Natural Light

1

- There were concerns about **western exposure** on this building. The review committee felt the **quality as well as quantity of light could be disadvantageous** to athletic activities. Design team will **research energy efficient, tinted windows with mechanical shades to provide lighting control.**



FIELDHOUSE – WESTERN EXPOSURE

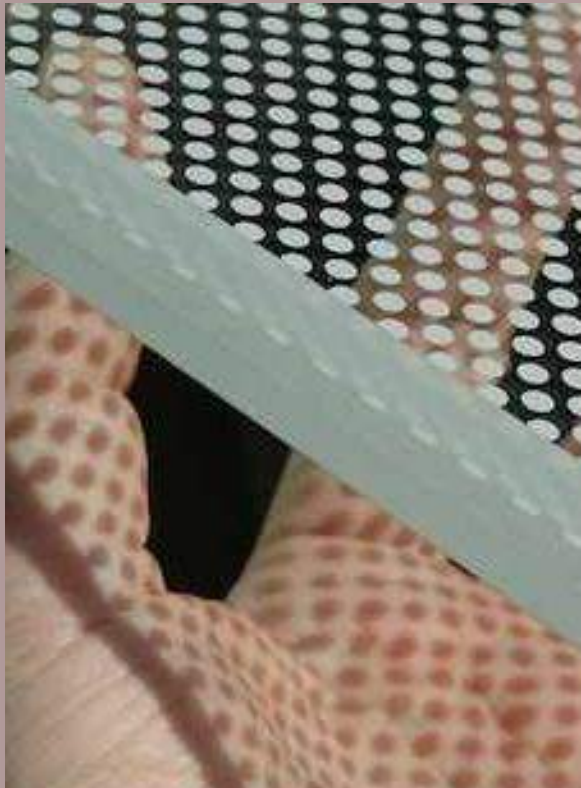
TABLE 1: COOL DAYLIGHTING PERFORMANCE CRITERIA

CRITERIA		ACCEPTABLE	PREFERRED
REQUIRED:			
1. WINDOW-WALL RATIO¹ MAXIMUM ALLOWABLE EXTERIOR GLASS AREA AS A % OF GROSS EXTERIOR WALL AREA ^{2,3}	NORTH ELEVATION	70% max	50%
	EAST ELEVATION	30% max	22%
	SOUTH ELEVATION	30% max	26%
	WEST ELEVATION	30% max	22%
2. GLASS PERFORMANCE^{1,4}			
2A. VIEW GLASS			
	Shading Coefficient, SC	0.38 max	0.22
	Visible Transmittance, V_T	40% max	18%
2B. DAYLIGHTING GLASS			
SHADED	Shading Coefficient, SC	0.38 max	0.38
	Visible Transmittance, V_T ⁵	40% max	38%
UNSHADED	Shading Coefficient, SC	0.38 max	0.26
	Visible Transmittance, V_T	40% max	23%

15 %
10 %
18 %
22 %



FIELDHOUSE – WESTERN EXPOSURE



Ceramic Fritted Glass



**Custom Transparency Control
Glare And Solar Gain**



Flexible Custom Patterns

FIELDHOUSE – WESTERN EXPOSURE



Electronically Tinted Glass: Effective Method For Controlling Glare
And Solar Gain

RESEARCH TOPICS:

1. Cost
2. Tint Consistency
3. Speed of Adjustment

*Will not explore this option



FIELDHOUSE – WESTERN EXPOSURE



Motorized Roller Shades



Effective Glare Control
Ineffective Solar Gain Control

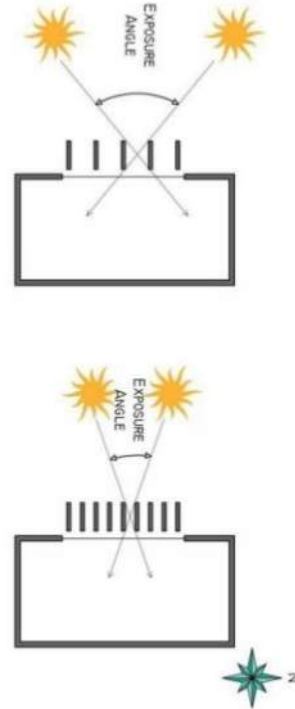


Highly Effective When Use in
Conjunction w/ Fritted Glass

FIELDHOUSE – WESTERN EXPOSURE



Vertical Exterior Louvers



Control Glare And Solar Gain at Cost of Visibility

***Will not explore this option**



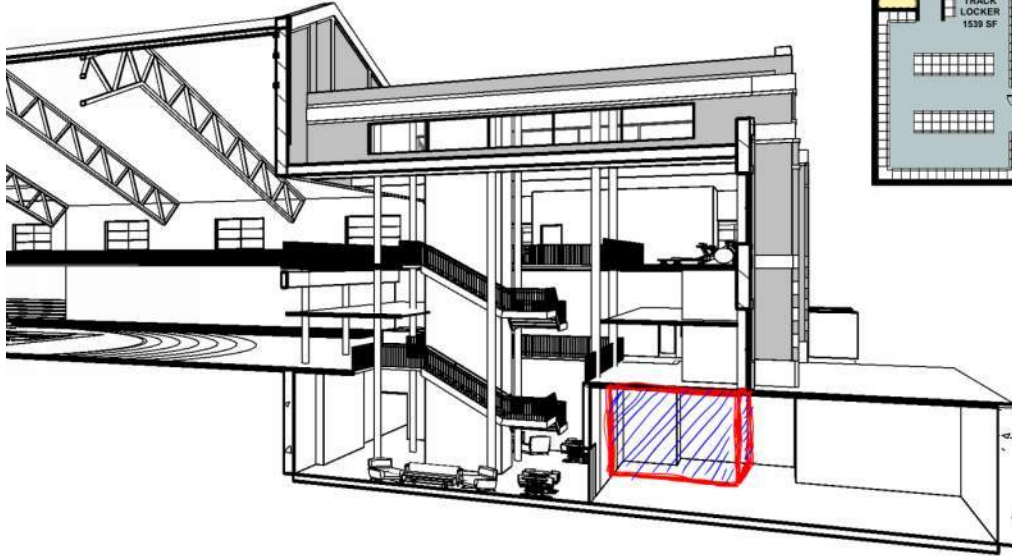
Foreign Aesthetic



Below Grade Electrical

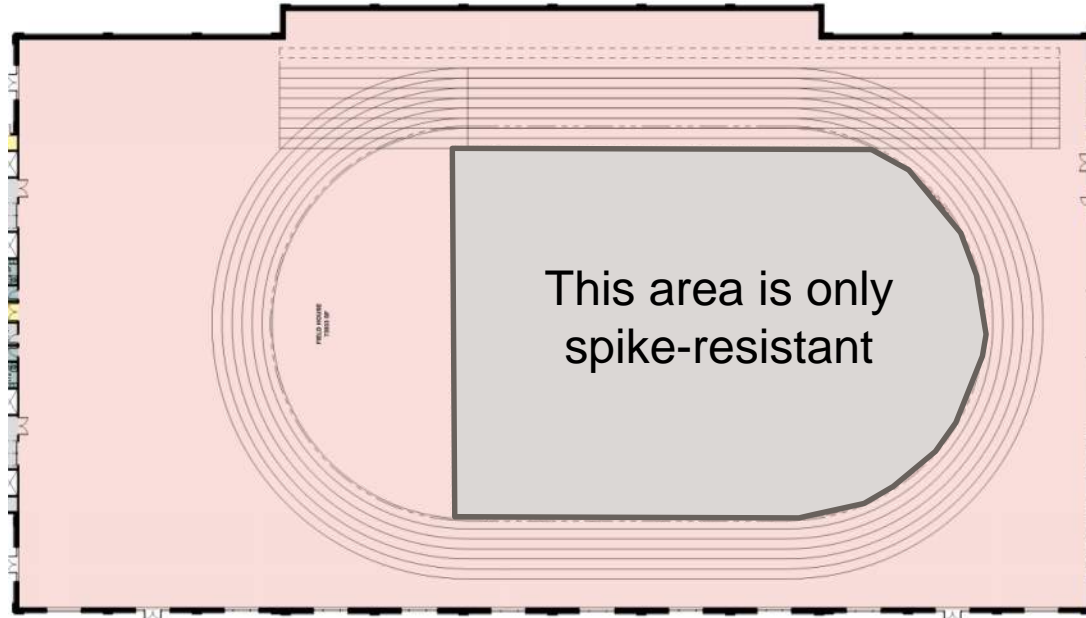
2

- Occupied space underneath the plaza is a potential problem in term of building budget and maintenance. There are more possibility for leaking/flooding. **Waterproofing strategies needs to be researched. Move the electrical components.**



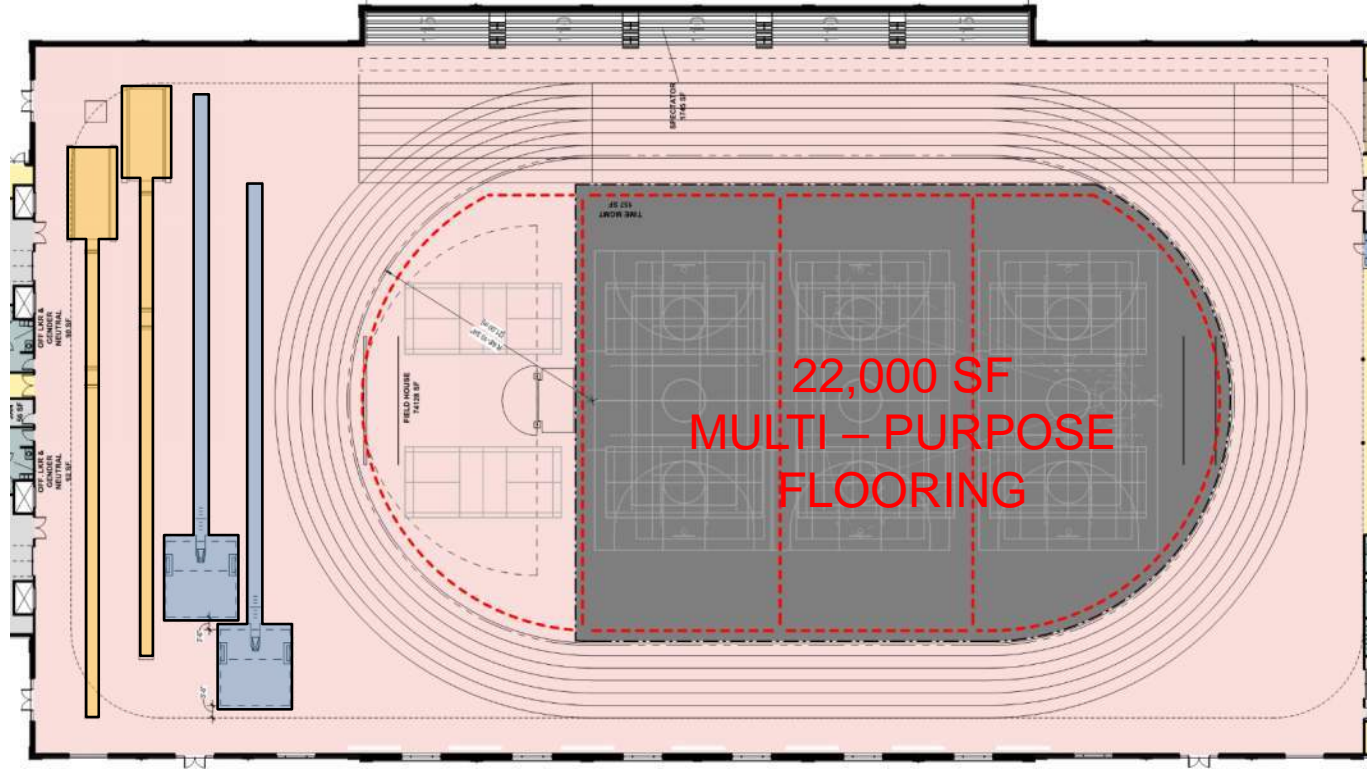
Protecting Non-Spikable Flooring

- There were concerns about the **separation of spikable and non-spikable athletic surfaces**. Review committee were concerned that non spikable surface would be damaged by athlete's cleats without proper protection.



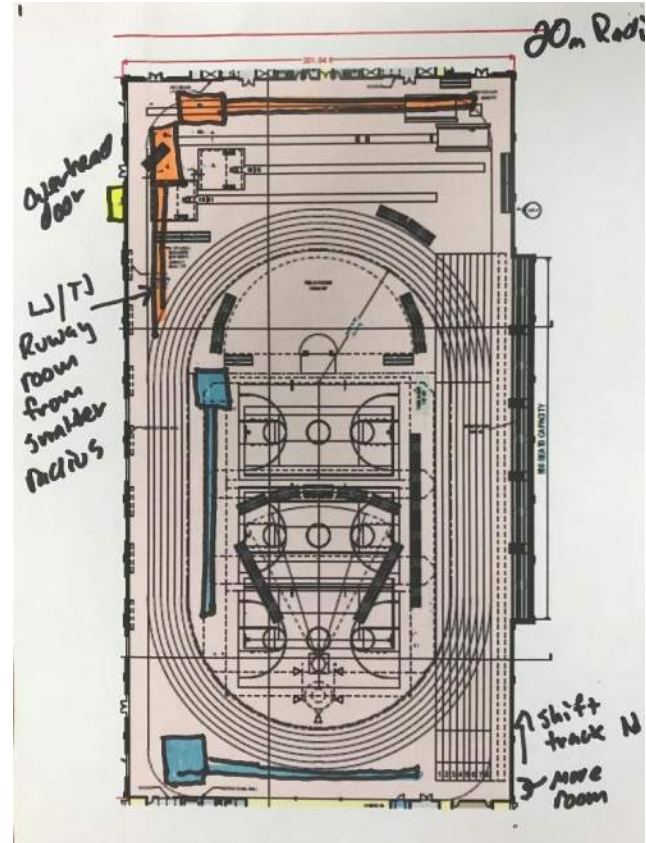
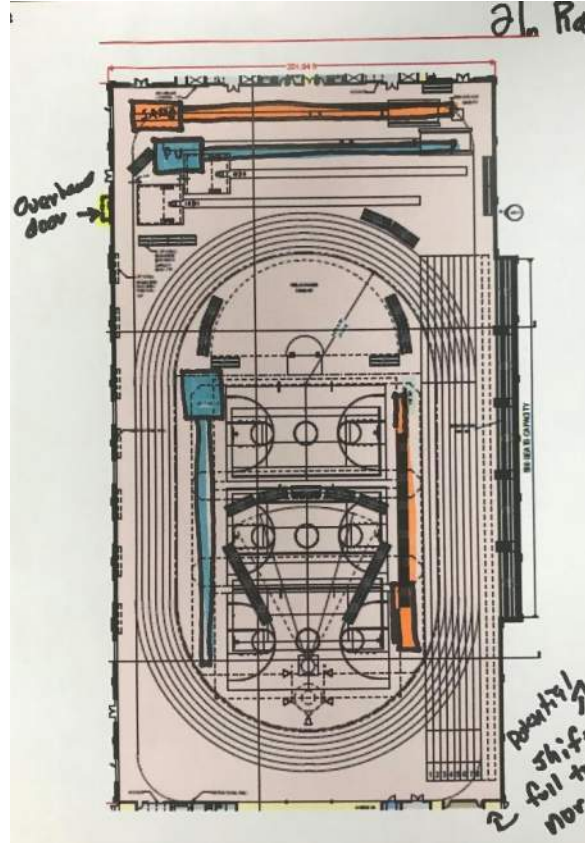
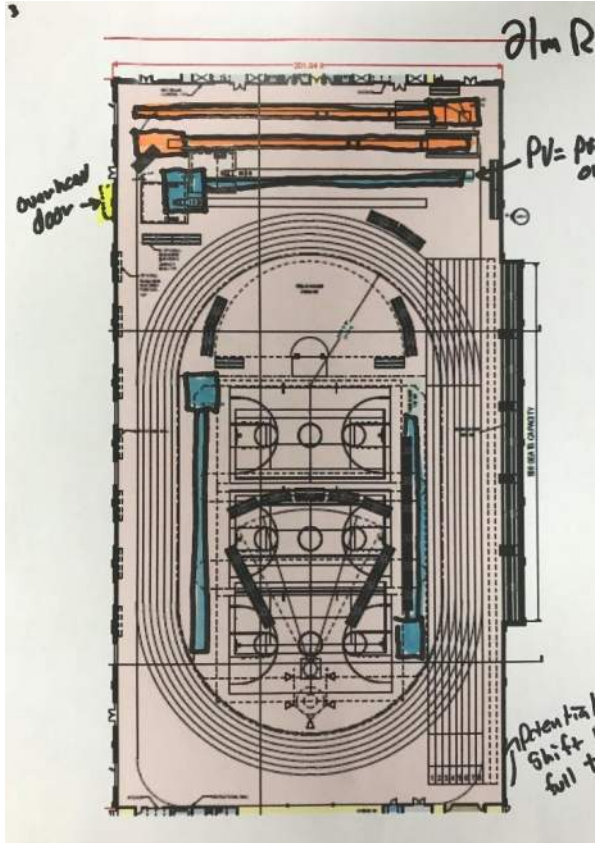
- Key here is 'Spikable' – vs- 'Spike-Resistant'
- Extent of this area will be determined by other field events that are potentially moved into the in-field area. The driver here is Indoor Track

1 | Fieldhouse – Fieldhouse – 10% Design Layout



- 2 Competition / Practice Pole Vaults
- 2 Triple / Long Jumps
- Curtains Divide Rec Courts, As Well As Protect Multi – Purpose Flooring
- Fields Events Are Cramped
- Cramped At The Start of Straightaway

1 | Fieldhouse – March 21st Comments



DAY LIGHTING

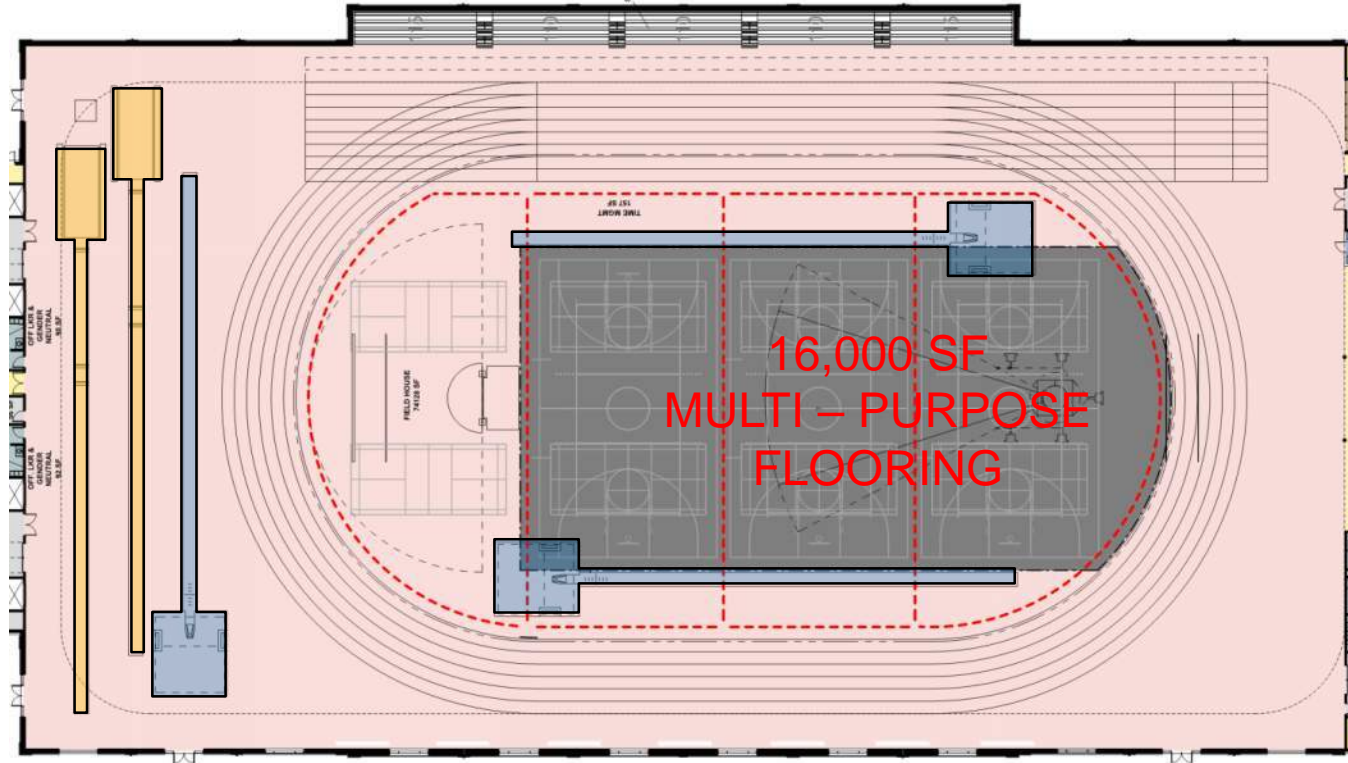
OUTDOOR

VISIBILITY

MULTI PURPOSE



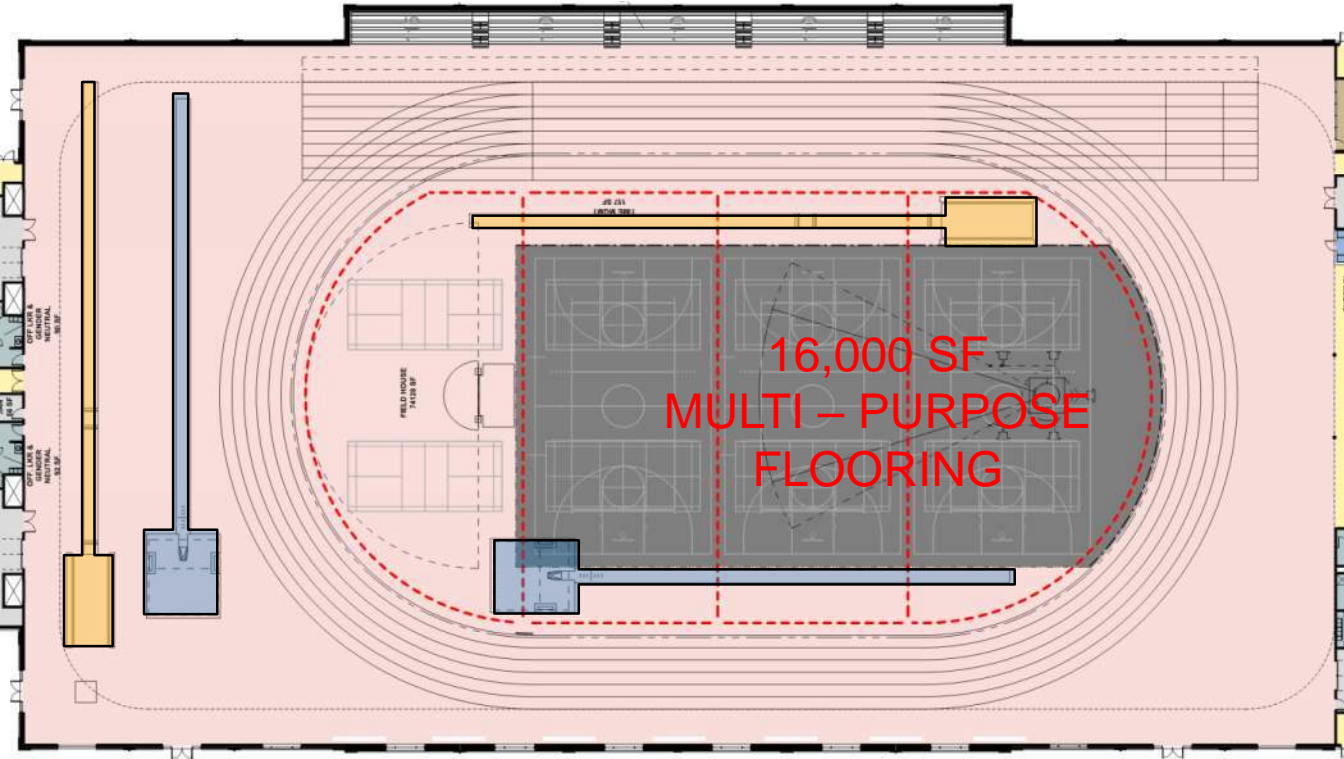
1 | Fieldhouse – Fieldhouse – Alternative Layout #1



- 1 Practice Pole Vault
- 2 Competition Pole Vaults
- 2 Triple / Long Jump
- Track shifts North 10'-0".
20'-0" clear at south end of
60M.
- Multi-purpose Surface
Decreased By 6,000 SF
- Curtains Does Not Effectively
Protect Multi-purpose
Surface



1 | Fieldhouse – Fieldhouse – Alternative Layout #2

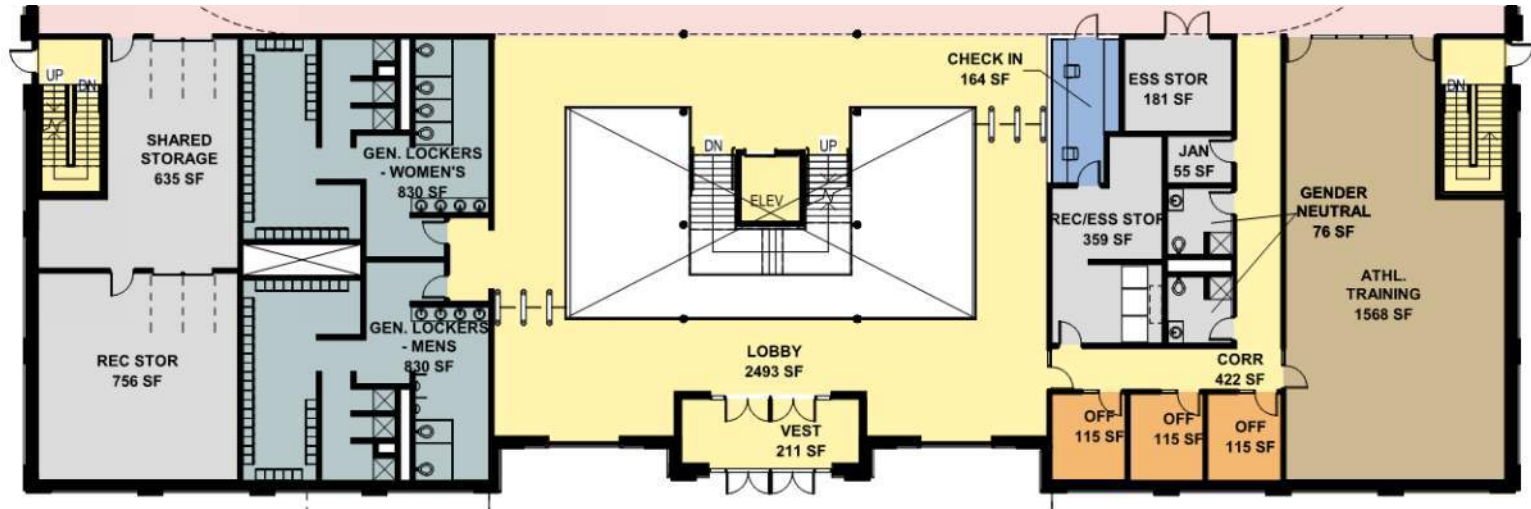


- 2 Pole Vaults
- 2 Triple / Long Jumps
- Additional clear space at start of straight away
- Track shifts North 10'-0".
20'-0" clear at south end of 60M.
- Multi-purpose Surface
Decreased By 6,000 SF
- Curtains Does Not Effectively
Protect Multi-purpose
Surface



Showers in General Lockers

- There were concerns about the south general use (main level) locker rooms and **if the showers would get used**. Review with user if the mix of lockers to showers is correct.

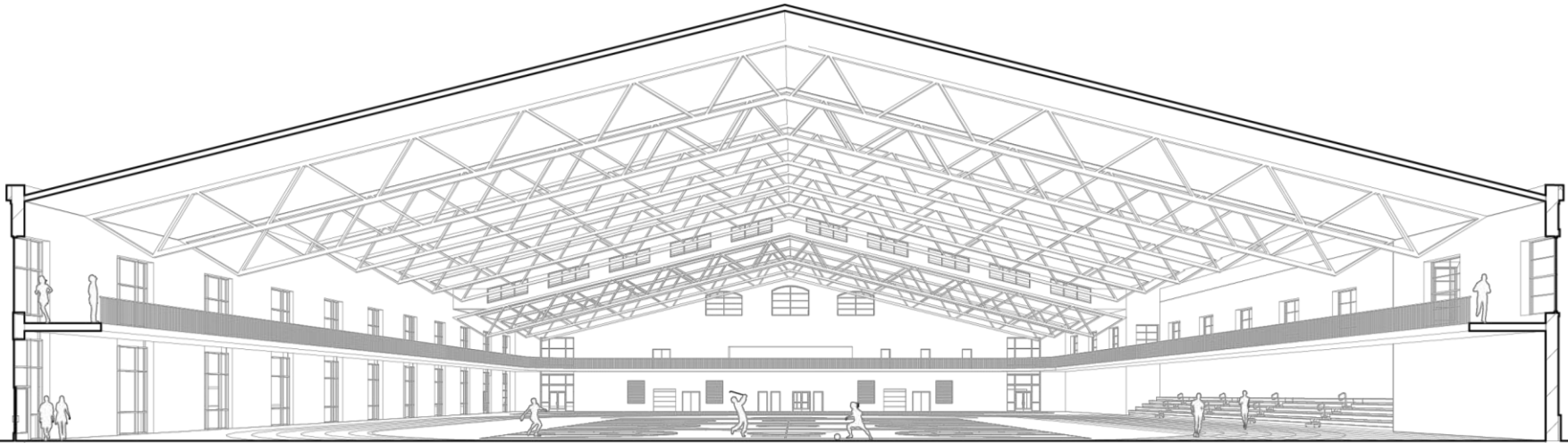


*Will proceed with the showers, as shown

Acoustical Control

5

- **Acoustic control** were a concern for an active, large open space. Design team are **planning on using acoustical decking** in the field house to absorb reverberation. Review committee **requested to see additional acoustic strategies**.



*Pro Audio is proceeding with putting together a model and providing a report with additional acoustical considerations



- Review committee posed **questions about roof materials**. Roof can be seen from the football stadium as well as from Grandad bluff. Review committee suggested roof **needed to be aesthetically pleasing texture/color while avoid glaring** issues.

*Design team proceeding with either of the two options, either a membrane with battens or a standing seam metal with a glare-resistant coating.

*Classic gray or similar for color.

FIELDHOUSE – ROOFING MATERIAL



Sarnafil Roof with Battens

Useful In Roofs with Complex or Non-Traditional Layouts

Cost Same as Standing Seam Metal



FIELDHOUSE – ROOFING MATERIAL



Selecting The Right Profile And Finishes With The University



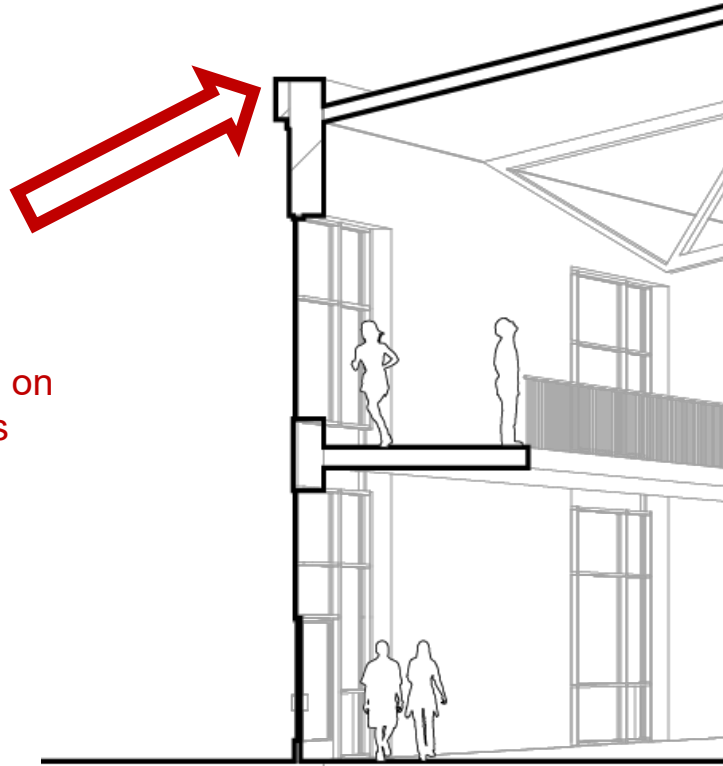
Sliding Snow

7

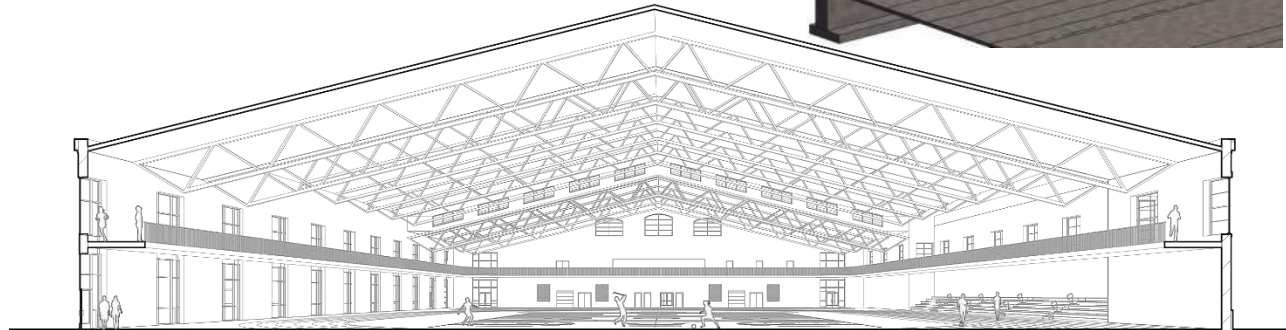
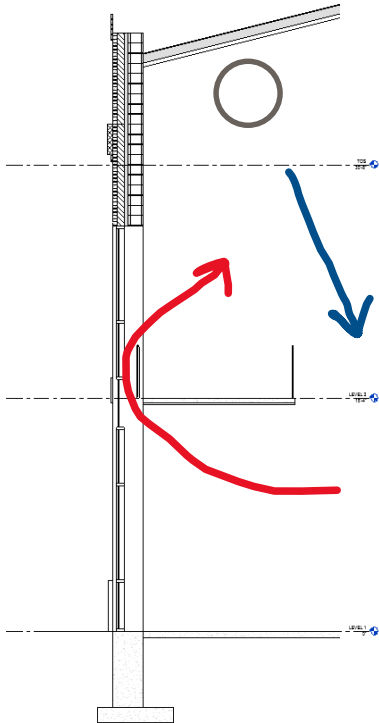
- Review committee warned about the amount of snow that will be collected on large roof area during winter months. **Falling snow and ice needs to be taken into consideration, especially for the pedestrian path along West side of building.**

*Parapet at the perimeter of the building provides protection from falling snow.

*'Snow jacks' will be incorporated on the surface of the roof to slow this down as well.



- Review committee had some concerns regarding **air circulation** in such a large space and **in particular the area under the overhead track**. Review committee requested to **see air circulation strategies**.



Reviews by various AHJ's

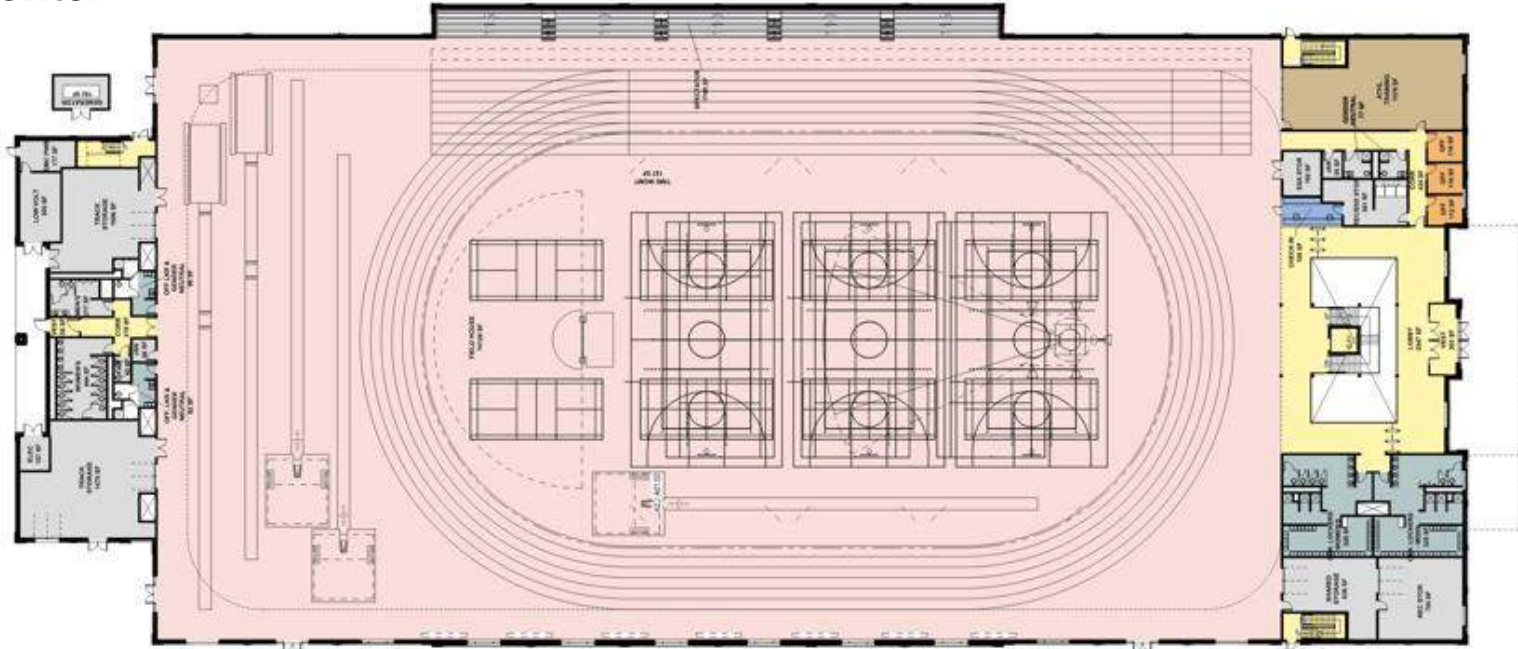
9

- Review committee suggested preliminary DSPS building code review & local fire department **review for field house atrium and Soccer Support's ADA compliance.**



Multiple Entrances, Large Events

- Review committee had questions about flow of vehicular and pedestrian traffic on site during large events. Committee **suggested having more than one entrance for large events.**



*Main entry will remain at the South, with main check-in here.

*Overhead doors and other controlled points of access around the building for events.



Hot Water Storage

11

- Review committee suggested reviewing hot water storage design for building. Capacity of **hot water storage needs to be planned for large events.**

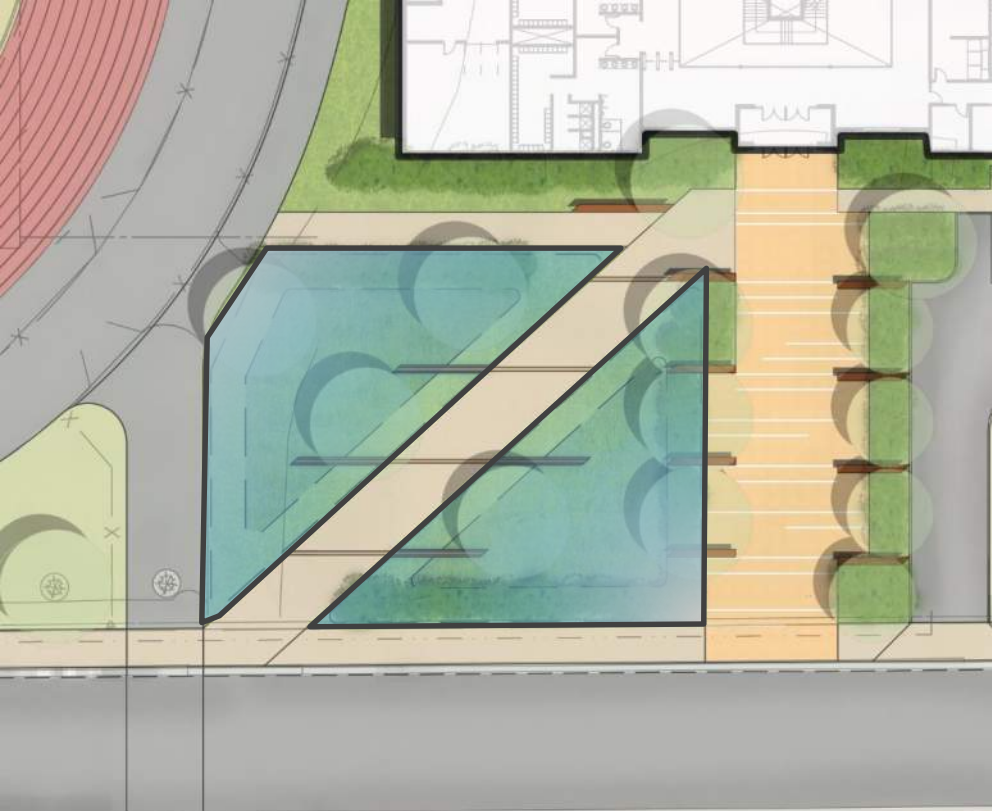


- **Storm water retention strategies** needs further development.

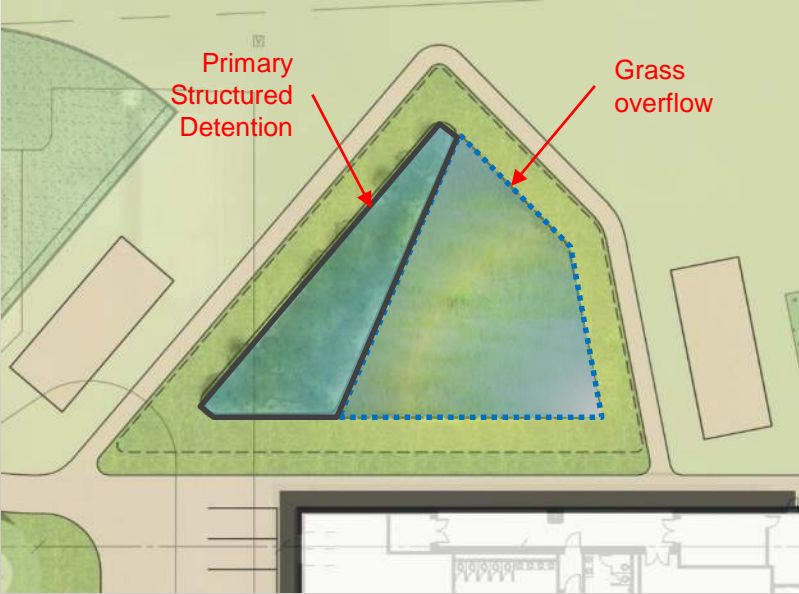


Stormwater Treatment Areas

South plaza stormwater garden



North stormwater garden



- Review committee noted the **design of the south façade** needed more experimentations with proportions and brick / cast stone ratio. The façade needed to **be even more inviting for students and campus.**
- **East façade was not discussed during presentation and needs further refinement** in regards to being the new east edge of campus.

SOUTH FACADE



SOUTH ELEVATION

SYMMETRY

PROPORTION

MATERIALITY

SCALE



Student Field House and Soccer Support Facility



1 | Fieldhouse - Elevations



EAST ELEVATION

SYMMETRY

PROPORTION

MATERIALITY

SCALE



SOUTH FACADE



Brick Corbeling – Adding Dimensions

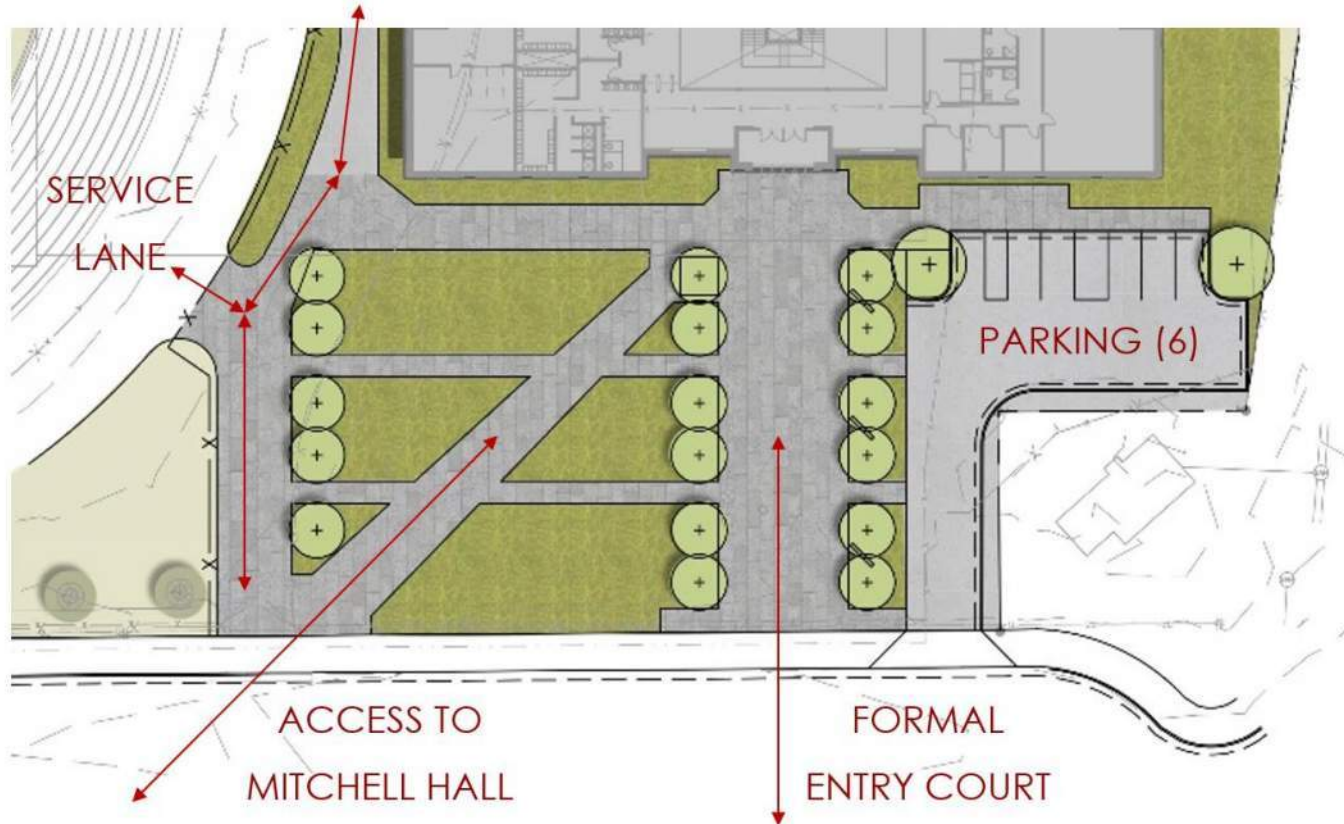


Using Multiple Brick Blends And Finishes To Create Patterns



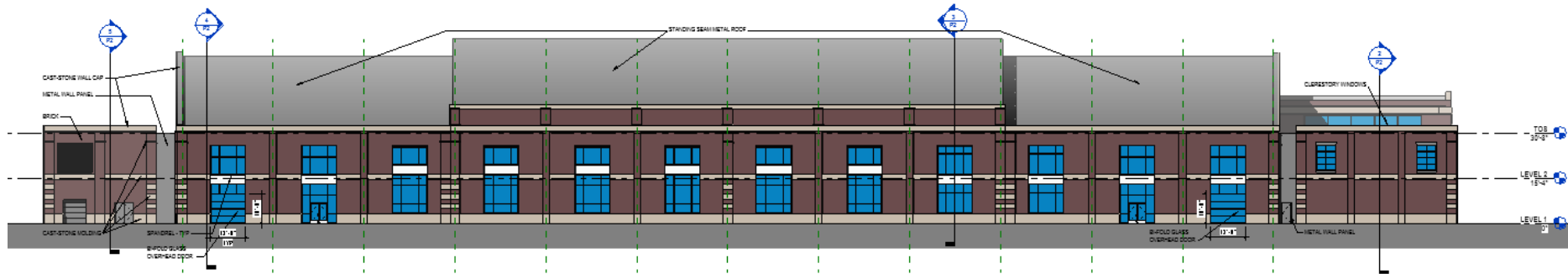
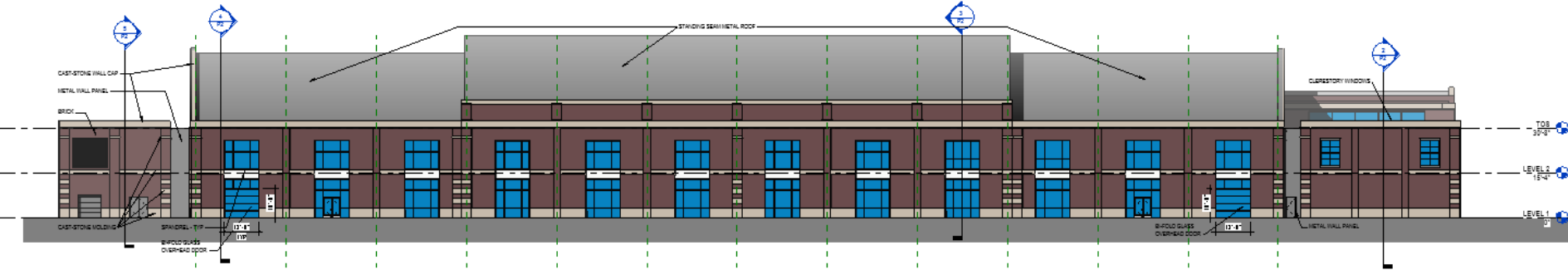
Study Ratios Of Stones And Brick

- **Site landscaping was not discussed** presentation and **need further development.**



- **Glass near floor levels and both 1st and 2nd floor is a concern in term of impact and maintenance.**

WEST FACADE



*Proceeding with bottom concept, pulling glass up from floor level



1 | Fieldhouse - Elevations



WEST ELEVATION

SYMMETRY

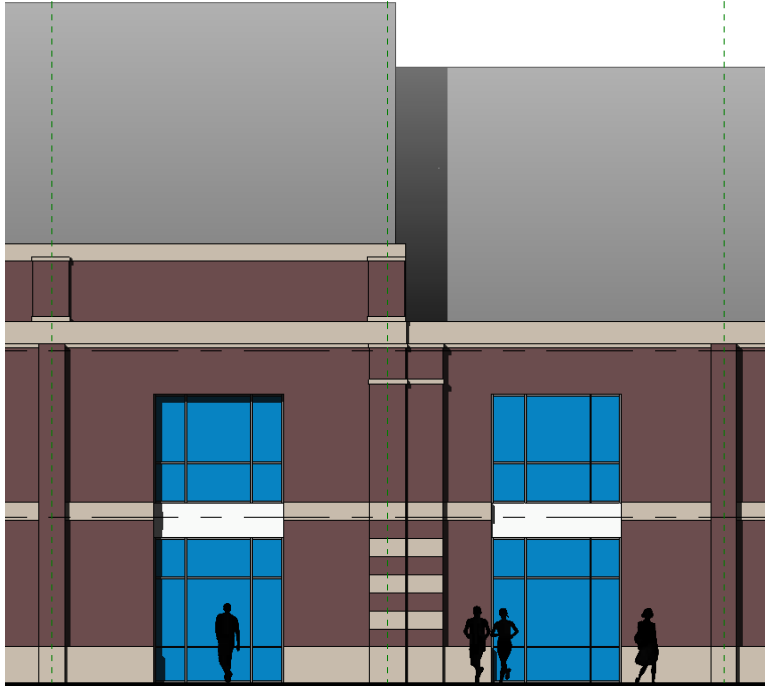
PROPORTION

MATERIALITY

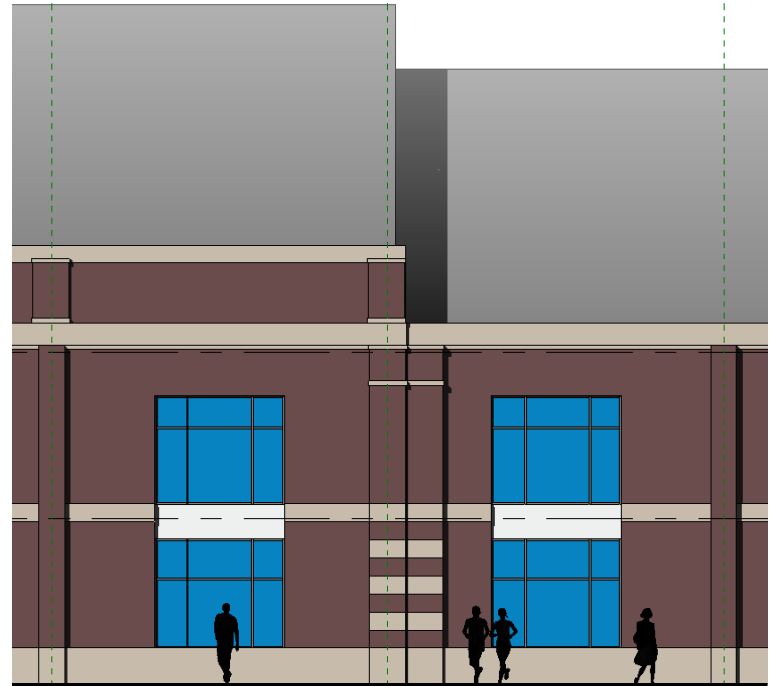
SCALE



WEST FACADE



**Full Height Glazing - Tempered Glass –
Full Visual Connection**



**Glazing Cut Off At Floor- 3'4" Tall Stone
Banding – Limited Visual Connection**





Budget

Budget | Estimate

- Total Construction Cost

#	BUILDING/AREA DESCRIPTION	TOTAL COST	COST RATIO
1	Field House 135,334 SF	\$33,142,950	97.31%
2	Soccer Support Building 2,576 SF	\$914,768	2.69%
TOTAL CONSTRUCTION BUDGET ⇨		\$34,057,718	100.00%

- Fieldhouse Detail

SUBTOTAL ⇨		\$26,406,500	\$195.12	79.67%
General Conditions	7.00%	\$1,848,455	\$13.66	5.58%
Design Contingency	10.00%	\$2,825,496	\$20.88	8.53%
Construction Permits	0.60%	\$186,483	\$1.38	0.56%
Contractor's Fee, Insurance & Bonds	6.00%	\$1,876,016	\$13.86	5.66%
TOTAL CONSTRUCTION BUDGET ⇨		\$33,142,950	\$244.90	100.00%

- Soccer Support Detail

SUBTOTAL ⇨		\$728,837	\$282.93	79.67%
General Conditions	7.00%	\$51,019	\$19.81	5.58%
Design Contingency	10.00%	\$77,986	\$30.27	8.53%
Construction Permits	0.60%	\$5,147	\$2.00	0.56%
Contractor's Fee, Insurance & Bonds	6.00%	\$51,779	\$20.10	5.66%
TOTAL CONSTRUCTION BUDGET ⇨		\$914,768	\$355.11	100.00%



Budget | Options

Additive Changes

- Add Six (6) Barrier Arm Optical Turnstiles \$ 101,664
- Add Sheet Piling \$ 733,521
- Add Environmental Graphics \$ 100,408
- Add Site Furnishings \$ 35,522
- Add Exterior Pylon Sign \$ 105,429
- Add Donor Feature Walls in South Entry Plaza \$ 94,133

Deductive Changes

- Change Exterior Walls from Brick / CMU to Precast (\$ 485,165)
- Reduce Height between floors from 15'-8" to 14'-8" (\$ 171,009)
- Reduce Height between floors from 15'-8" to 14'-0" (\$ 285,586)
- Change Scissors Truss to Cross-Ties, Pitch to 2.5% (\$ 251,021)
- Eliminate Roof Offset at Clearstory (\$ 192,631)
- Change Standing Seam Roof to EPDM w/ Ribs
- Reduce Basement Area (\$ 456,267)

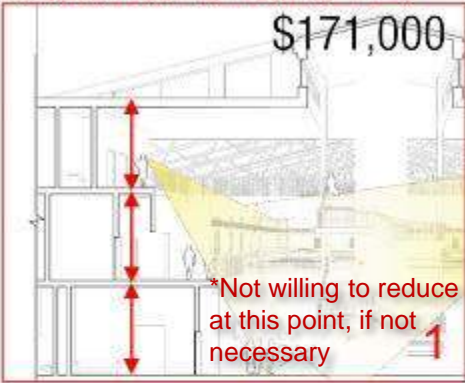


1 | Fieldhouse & Soccer Support – Budget

- STRATEGIES IN CONSIDERATIONS:

Reduce Floor to Floor to 14'-8"

\$171,000

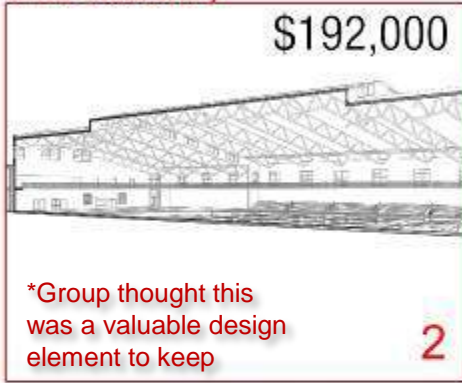


*Not willing to reduce at this point, if not necessary

1

Omit Clearstory

\$192,000



*Group thought this was a valuable design element to keep

2

Replace Metal Roof

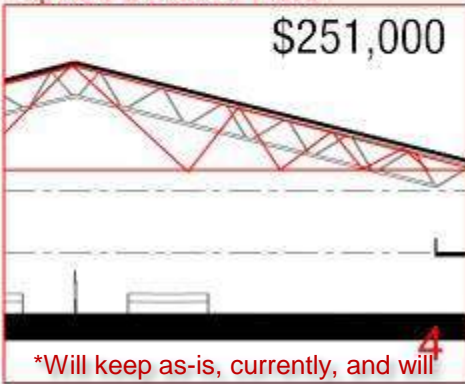
\$238,000



3

Replace Scissors Truss

\$251,000



*Will keep as-is, currently, and will compare to other facilities

4

Reduce Lockers Quantity

\$456,000



*Not willing to reduce at this point, if not necessary

5

Insulated Precast Panels

\$485,000



6

*Not interested in doing this at this point, based on interior aesthetic

1 | Fieldhouse & Soccer Support – Budget

- STRATEGIES IN CONSIDERATIONS:

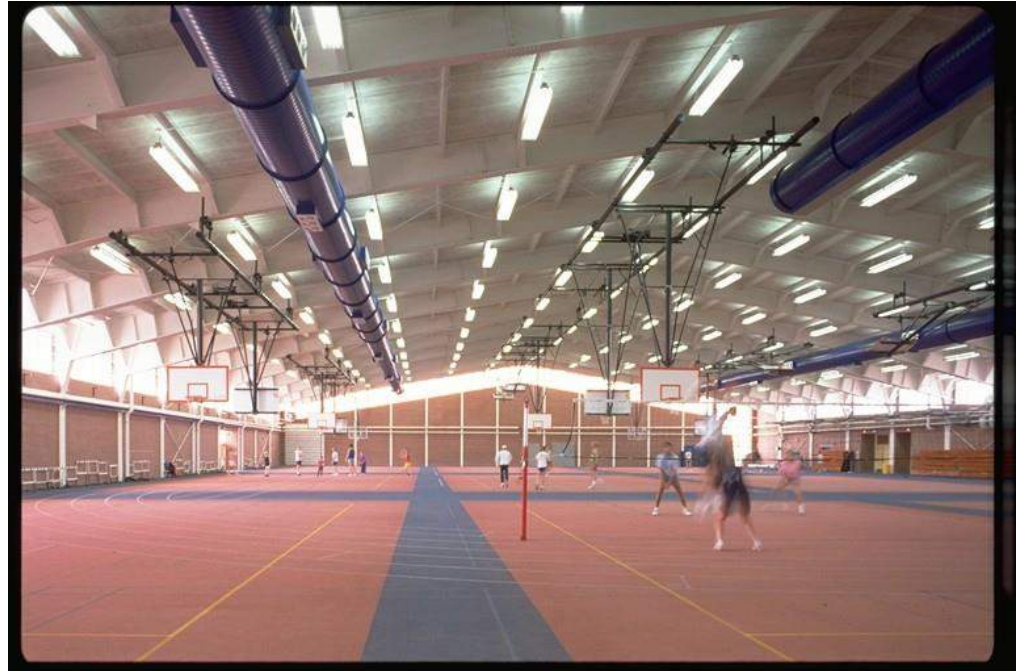
Replacing Scissor Truss: Images of other similar spaces



Anderson University

The Tom and Sch'ree Ward Fieldhouse

Anderson University – Andersen, Indiana



University of Nebraska-Kearney



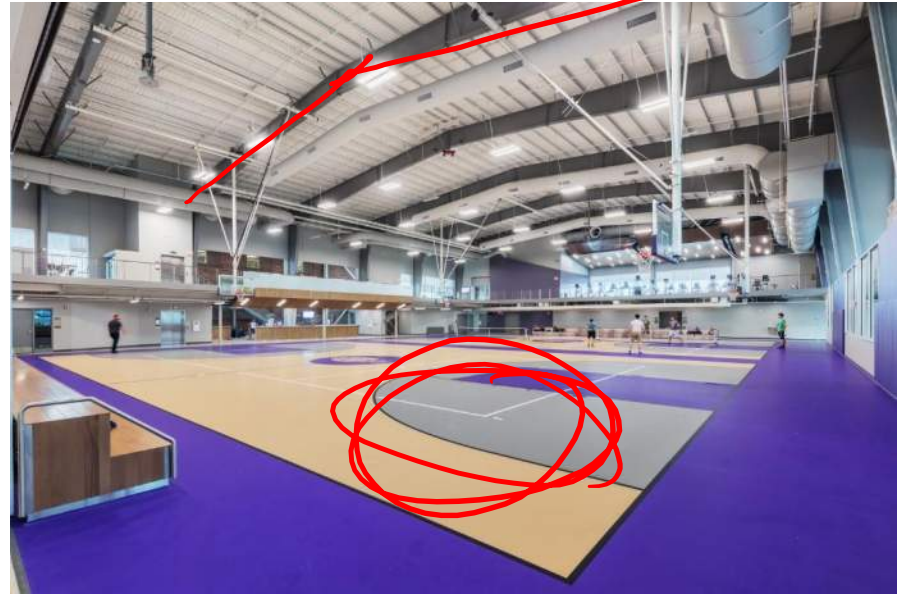
1 | Fieldhouse & Soccer Support – Budget

- STRATEGIES IN CONSIDERATIONS:

Replacing Scissor Truss: Images of other similar spaces



Milwaukee School of Engineering



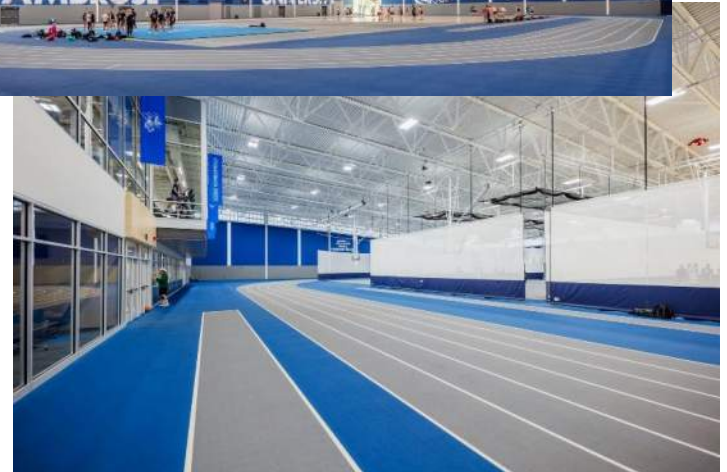
Palmer College of Chiropractic – Davenport, IA



1 | Fieldhouse & Soccer Support – Budget

- STRATEGIES IN CONSIDERATIONS:

Replacing Scissor Truss: Images of other similar spaces



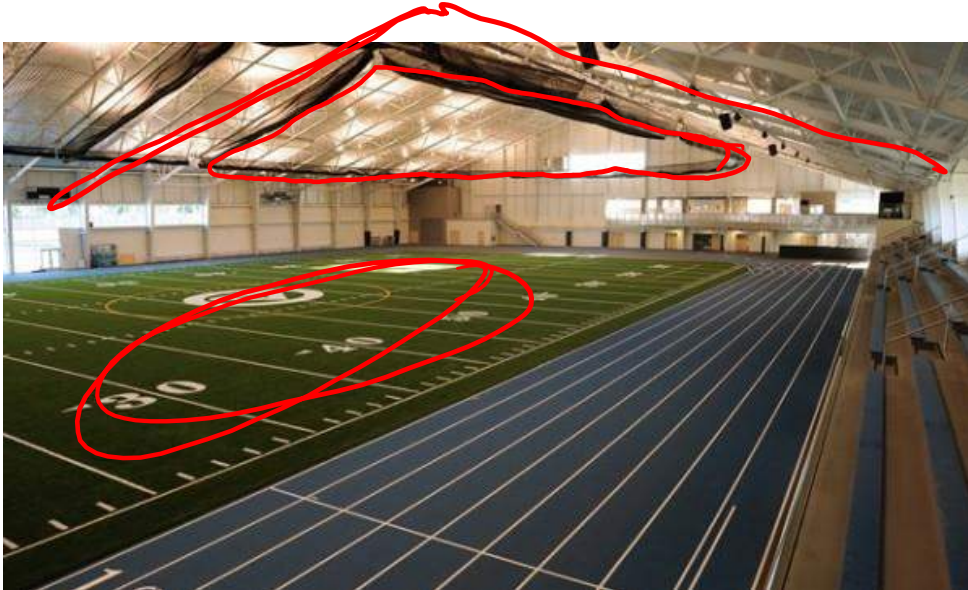
St. Ambrose University – Davenport, IA



1 | Fieldhouse & Soccer Support – Budget

- STRATEGIES IN CONSIDERATIONS:

Replacing Scissor Truss: Images of other similar spaces



Grand Valley State – Allendale, MI



South Dakota State University





Wrap Up



QUESTIONS

1 | Fieldhouse & Soccer Support – Next Steps

- DEVELOPING BUILDING SYSTEMS (MECHANICAL, PLUMBING ETC...) ✓
- DEVELOP INTERIOR FINISHES AND MATERIALS ✓
- DEVELOP AND REFINE EXTERIOR CHARACTERISTICS ✓
- DEEP DIVE INTO EACH SPACES AND THEIR REQUIREMENTS:
 - LOCKER ROOMS
 - ATHLETE'S LOUNGES
 - MEETING ROOMS
 - ...
- MOVING CLOSER TO BUDGET

Wrap Up



Create. Meaning. Together.

