







ARBORETUM RECREATION CENTER **RENOVATION + ADDITION**

Adjacent to the US National Arboretum, the Arboretum Recreation Center serves a growing community in NE DC. The existing field house was determined to be eligible for the national registrar of historic places, as it is associated with DC's effort to develop recreational facilities during the late 1960's and is one of the best examples of Park Service Modern design of Miss 66 period applied to DC's recreation facilities. The most notable feature is the roof profile, which references the US Arboretum.

The existing recreation center offered only one main room for the community's use. An addition to the existing structure is required in order to accommodate the community's growing needs and program uses. The program will include a half gym, community room, technology lounge and fitness area.

The main project goals are to keep the existing historic structure as much as possible as it is, especially concerning the roof profile; provide a clear entrance; and create simple volumes for the added program that will compliment and enhance the existing structure.

July 13, 2020

U. S. Commission of Fine Arts 401 F Street NW, Suite 312 Washington, DC 20001 ATTN: Mr. Thomas Luebke

Reference: Arboretum Community Center Review

2412 Rand Place. NE

Dear Mr. Luebke.

The District of Columbia Department of General Services (DGS) is pleased to present the Arboretum Community Center project to be constructed at 2412 Rand Place, NE for review by the commission.

If you have any questions or required further information please contact Michael Etherton of DGS Capital Construction Services (202) 421-4977 or Michael.etherton@dc.gov or Marisa King with ISTUDIO Architects at (202) 758-2037 or mking@istudioarchitects.com. We appreciate your assistance with this project and look forward to your review.

Best Regards,

Cassidy Mullen **Executive Program Manager Capital Construction Services Division** 1250 U Street, NW Washington, DC 20009 Office: (202) 671-2629

Mobile: (202) 769-6791 Email: cassidy.mullen@dc.gov

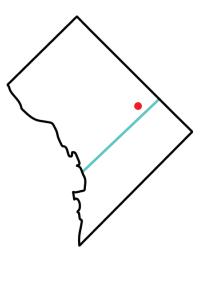
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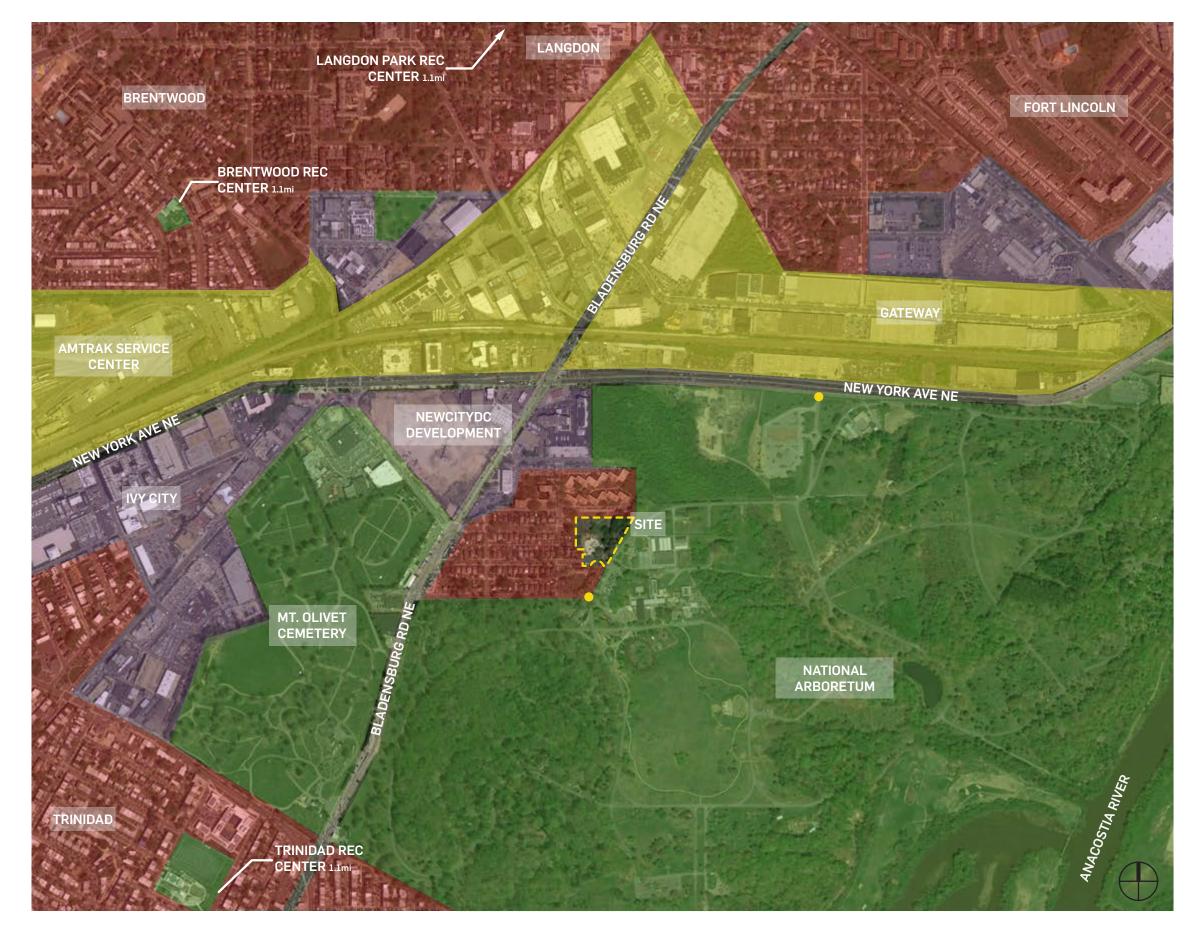




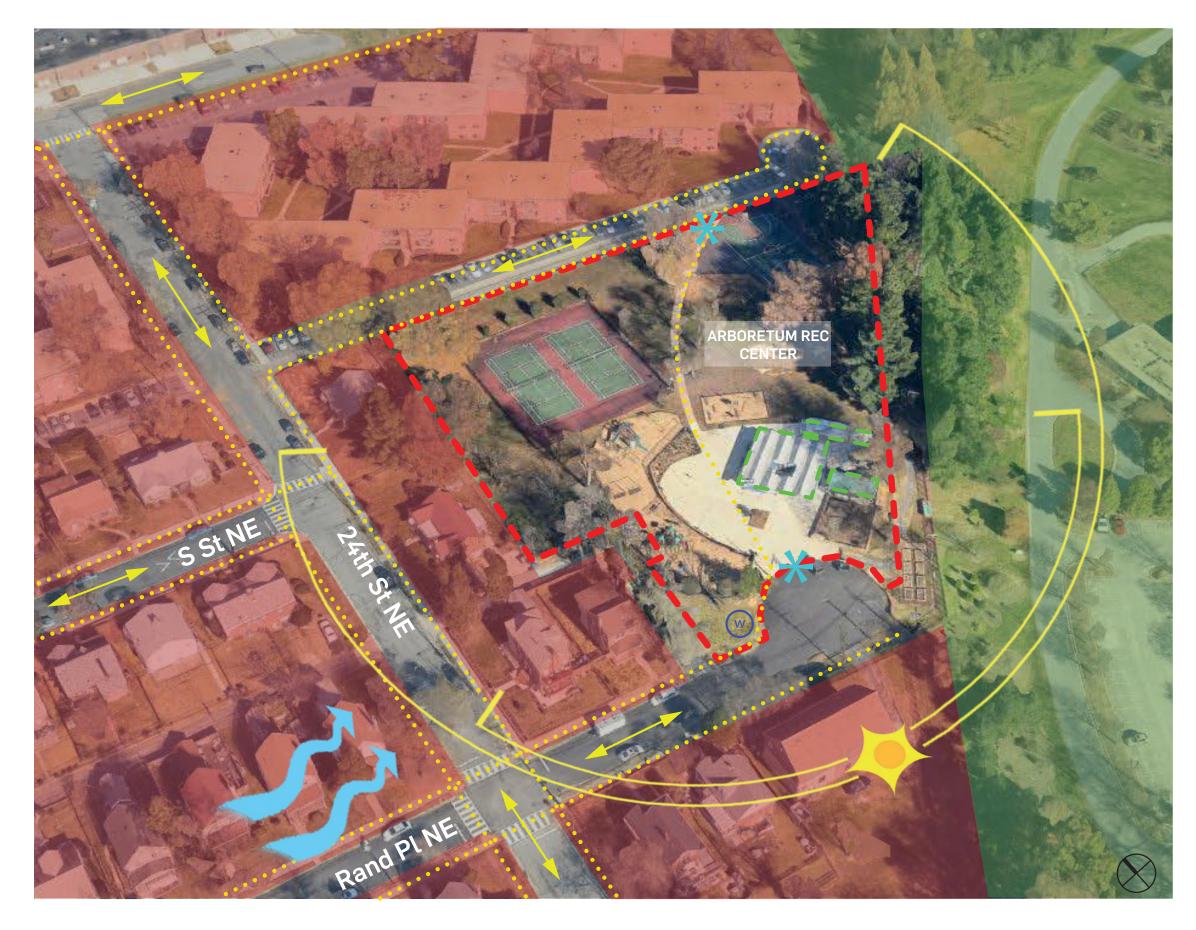
The Arboretum Recreation Center is a unique site. The community is surrounded by the national arboretum on the south and east, an industrial landscape to the north and an area of new development immediately adjacent to the north west.

This makes the existing community somewhat isolated from other residential areas and more reliant on the community rec center which is currently not sufficient to meet their needs. The major development coming to the area puts further pressure on the center and makes this expansion even more necessary.









Zoning Analysis

Zone R-1-B Area 109,068 SF

Existing Limit

Lot occupancy 2% <40%

Building height 16' - 0" <40' - 0"

Building footprint 1,400 SF <43,627 SF

FAR 0.03 <1.2

FAR 0.03 <1.2 GAR >0.3

The existing Arboretum Recreation Center site receives a good amount of sunlight throughout the day, mainly from the south east. There are a few stands of mature trees which offer shade to picnic areas and the basketball court. The current community gardens are actually not within the property line and therefore cannot be modified. There is one main path through the site between the two entries, the main one on Rand Pl and the secondary on the dead end alley to the north. There is a water meter located at the south west corner of the site.

Existing Entrance

*

Water Meter

Site Outline



Prevailing Winds

Building Outline
Pedestrian Pathway

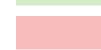


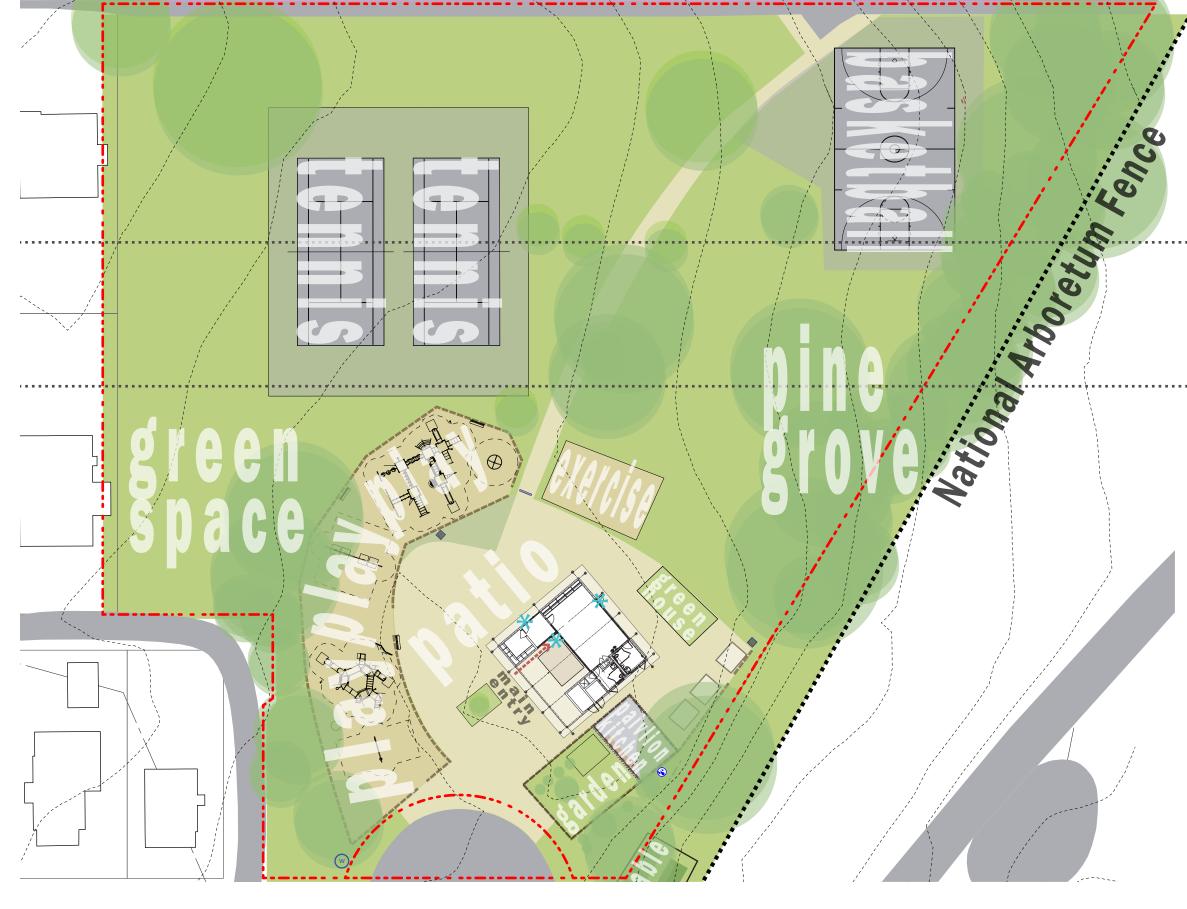
Road Direction



Residential

Green Space





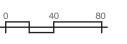
Existing Site

The existing Arboretum Recreation Center site contains a small 1400 sft indoor field house, consisting of a crowded office and storage, restrooms and small multipurpose space with a pantry kitchen that is insufficient to meet the needs of the community.

Exterior amenities include a tennis court in good condition and basketball court that dips slightly to the northeast. There is also a large playground and small outdoor exercise area as well as a community garden and outdoor kitchen with pavilion.

Attempts at specific sustainable practices have already been made by the community at the center and should be continued and improved upon with the new design. Water retention and rain gardens have been implemented on the site as well as a green wall that is no longer functional.

There is also a greenhouse on site that was not built properly and is coming apart at the seams. The community would like a new greenhouse in a new location for better access to daylight and year round planting.











The Building

Images from existing recreation center. The building's key design feature is a zigzag roof which references that of the Arboretum Visitor Center. This building has been marked as a historic resource and will require HPO coordination throughout the architectural process.

The building otherwise consists of low ceilings, wood and cinder block construction with exposed duct work. The restrooms were recently renovated and are ADA accessible from the interior.























The Site

These existing site photos show the current on site amenities. The outdoor kitchen under the pavilion is propane fueled. There is no existing gas line to the recreation center. Playground equipment seems to be in overall good condition.



















The Neighborhood

The rec center's immediate surroundings consist primarily of single family homes with a walk up garden-style multi family residence to the north.

The adjacent Arboretum Visitor's Center features a prominent zig-zag roof and pavilion canopy as well as custom metal screen for control of natural daylight.









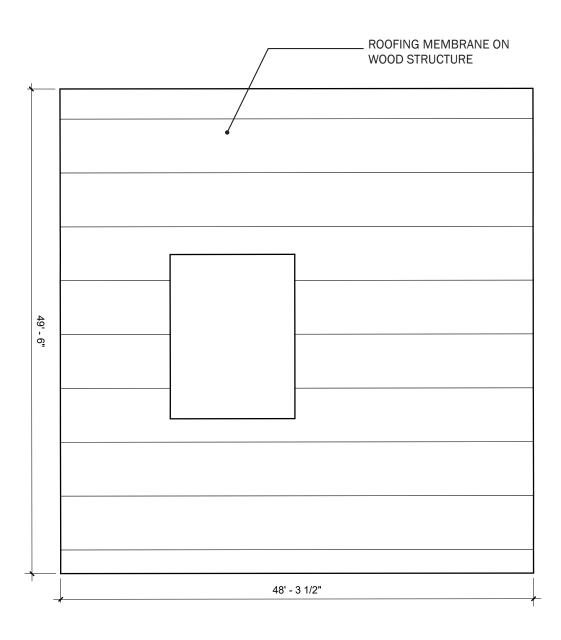


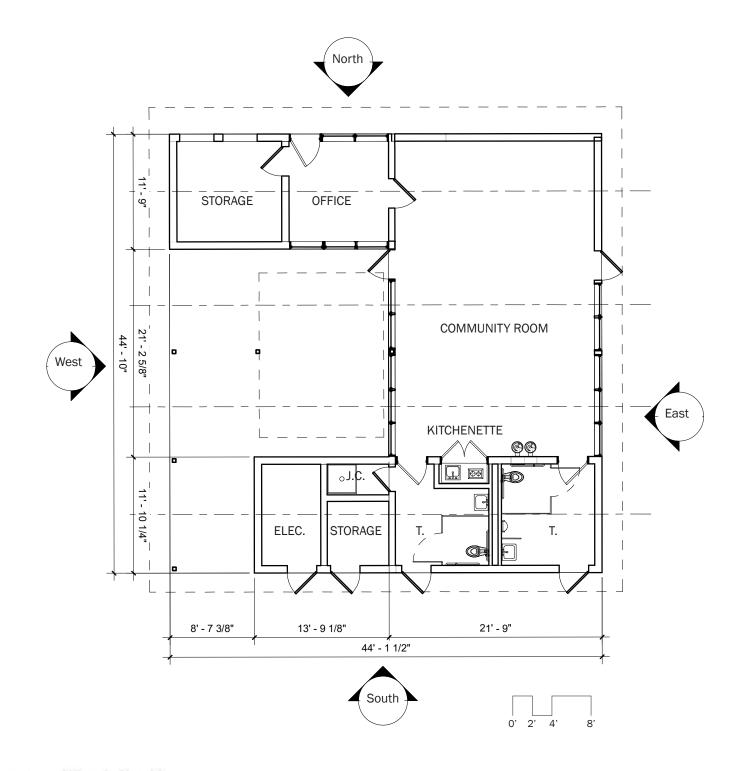


EXISTING SITE | Surrounding Area



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A Determination of Historic Eligibility was performed in coordination with the DC Office of Historic Preservation. It was determined that the existing building meets the criteria outlined below and is historical eligible.

National Register of Historic Places *

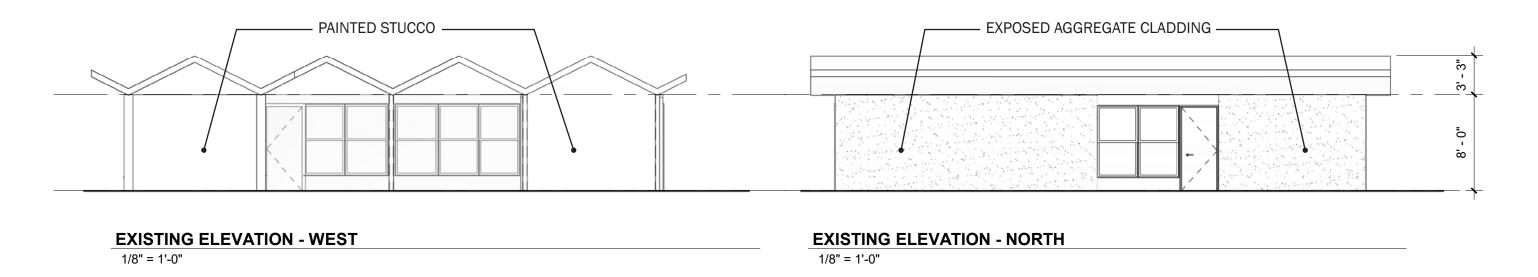
Criteria	Contributing Factor	Project Significance
(A) Event	Associated with significantly contributing events to broad patterns of American history	Association with DC's effort to develop recreational facilities during the late 1960's
(C) Design / Construction	Embodies distinctive features of a type, period or method of construction possessing high artistic value	One of the best examples of Park Service Modern design of Mission 66 period applied to DC's recreation facilities

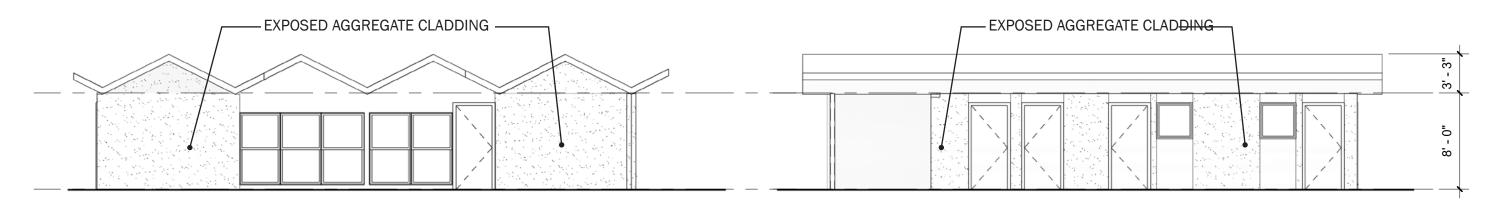
D.C. Inventory of Historic Sites**

Criteria	Contributing Factor	Project Significance
(B) History	Associated with historical periods, movements, groups and achievements	Example of Mission 66 program's efforts to modernize and improve the Districts recreation system
(D) Architecture and Urbanism	Distinguishing features of architectural styles, building types or construction methods	Embodies the distinguishing characteristics of Park Service Modern
(E) Artistry	High artistic or aesthetic values contributing to heritage or appearance	One of the finest examples of Park Service Modern

A R C H I T E C T S







EXISTING ELEVATION - EAST

1/8" = 1'-0"

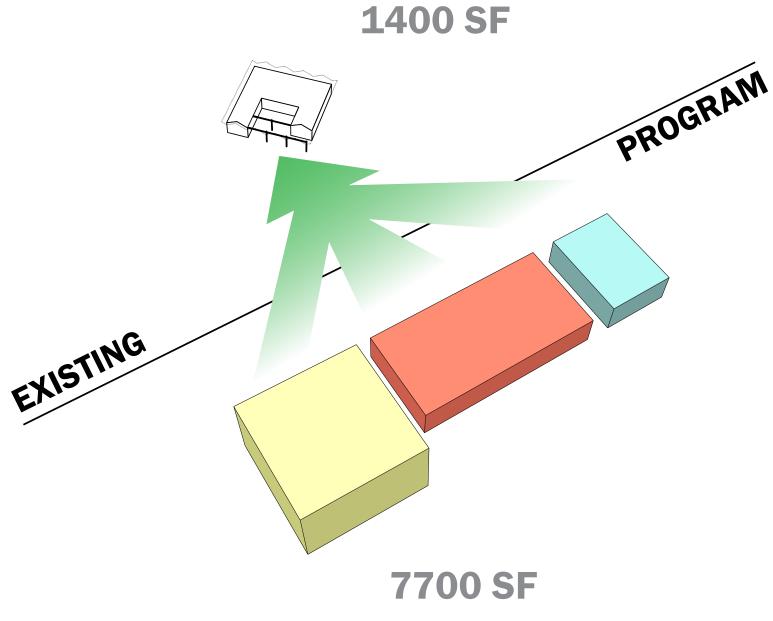
EXISTING ELEVATION - SOUTH

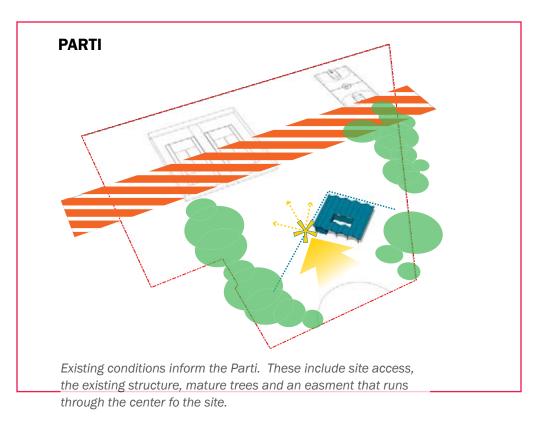
1/8" = 1'-0"

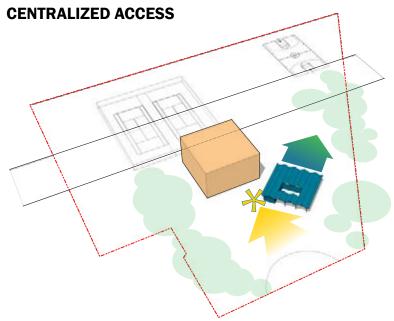


ROOM NAME	SF #	OF VOTES	USES
COMMUNITY	1243	7	MULTI-PURPOSE
		6	READING ROOM
		4	MUSIC
		3	TEEN / GAME
		2	CLASSROOM
FITNESS	658	13	FORMAL FITNESS
		10	BOXING
SOFT PLAY	152	7	SENSORY PLAY
TECH LOUNGE	345	6	COMPUTER
		4	LOUNGE
		4	SENIOR
1/2 GYM	3446	2	SPORTS + FITNESS
OFFICE	142		REQUIRED
RECEPTION/LOUNGE	226		REQUIRED
IT	72		REQUIRED
RESTROOMS	319		REQUIRED
CIRCULATION	928		REQUIRED
MECH/STORAGE	196		REQUIRED
NET SQUARE FOOTAGE	7727		

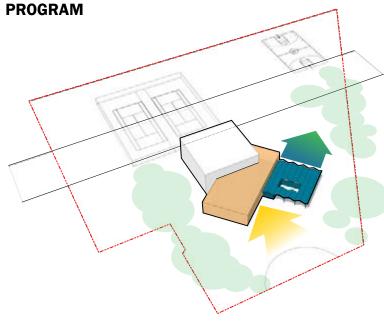
The program needs of the community far exceed the available square footage of the existing recreation center.



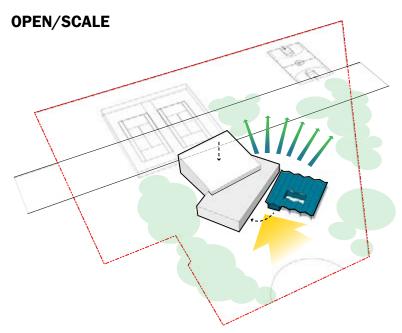




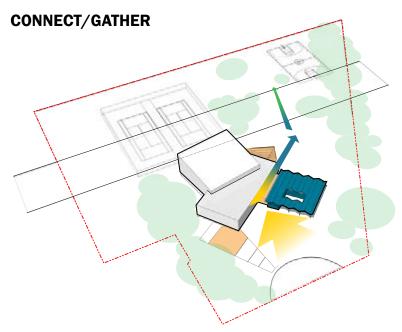
The half gym is located outside of all critical root zones and the existing easement. It if oriented for optimal daylighting and centralized access from the site entry.



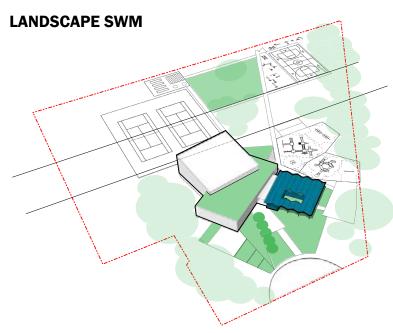
Additional square footage is needed to accommodate the program. This bar building becomes a connector for the existing structure and the half gym.



The half gym is sunken into the earth and the bar building is angled outward to compliment, and not crowd, the existing structure.



Landscaping and pathways are used to connect activities throughout the site



Stormwater management and site plantings are integrated into the building and the project site



Powell Elementary





Precedent Description

For this project we are looking towards precedents that are open and welcoming, provide natural light to interiors and shaded pathways and pavilions to exteriors.

Sculpted hardscapes for various uses and green space and roofs for bioretention as well as recreation. Transparency for the interaction of some programs is essential while more private spaces can be created when necessary. Sustainable design, flexibility and useability are key to the new Arboretum Recreation Center.

The intent is to keep the building materials simple so the building compliments and enhances the existing historic filed house. This includes fiber cement panels, glazing and translucent panels. A screen at the main entrance has been deisgned to ensure that the existing filed house remains the focal point of the design and to highlight the building entrance.





































SITE PLAN KEYNOTES

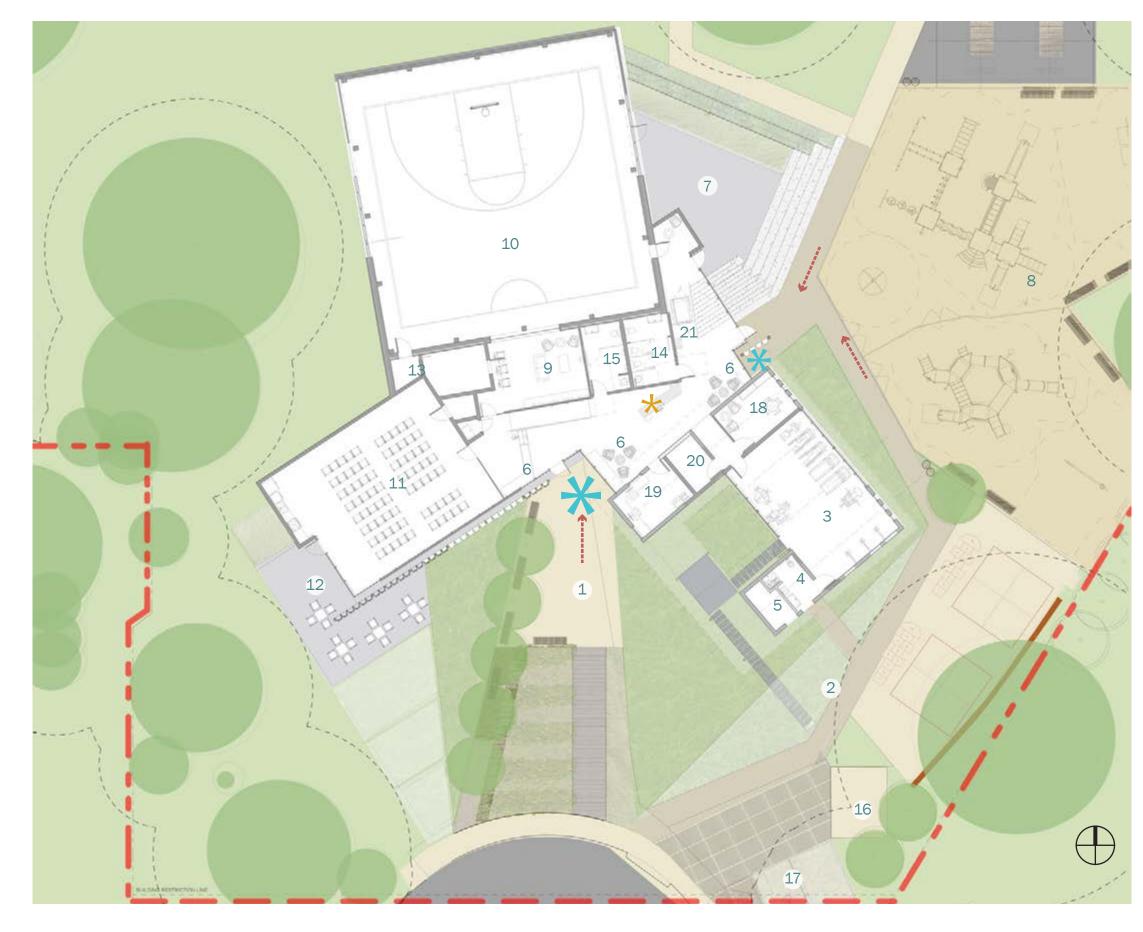
CIRCULATION

ENTRY/EXIT

- 1 EXISTING HISTORIC BUILDING
- 2 SOLAR ROOF
- 2A MECHANICAL UNDERNEATH SOLAR ROOF
- 3 EXISTING TENNIS COURTS
- 4 POTENTIAL GREENHOUSE
- 5 EXTENSIVE LOW PROFILE GREEN ROOF/SWM
- 6 COMMUNITY GARDENS
- 7 AMPHITHEATER
- 8 RELOCATED PLAYGROUND
- 9 RELOCATED FITNESS
- 10 EXISTING BASKETBALL COURT
- 1 TRASH ENCLOSURE
- 12 COMMUNITY PATIO
- 13 POTENTIAL PARKING
- 14 STORM WATER MANAGEMENT
- 15 HARDSCAPE PLAY
- 16 FIRE TRUCK ACCESS LANE
- 17 PAPER STREET EASEMENT











RECEPTION



------ CIRCULATION



ENTRY/EXIT

SITE PLAN KEYNOTES

- **ENTRY PLAZA**
- FIRE TRUCK ACCESS LANE
- FITNESS ROOM
- **RESTROOM WITH SHOWER**
- ELECTRICAL ROOM
- **BREAKOUT AREA**
- **AMPHITHEATER**
- RELOCATED PLAYGROUND
- TECH LOUNGE
- HALF GYM
- 11 **COMMUNITY ROOM**
- **COMMUNITY PATIO**
- UTILITIES
- WOMEN'S WC
- MEN'S WC
- TRASH ENCLOSURE
- POTENTIAL PARKING
- SOFT PLAY ROOM 18
- OFFICE 19
- IT ROOM 20
- LIFT 21











FRONT PLAZA LANDSCAPE NARRATIVE:

THE FRONT PLAZA LANDSCAPE IS INTENDED TO MIMIC THE ISLAND PICTURED ABOVE AT THE NATIONAL ARBORETUM, REPLACING THE WATER WITH LOW SOFT AND FLOWING GRASSES AND PERENNIALS. THE ALLEE OF RIVER BIRCHES IS INTENDED TO DIRECT YOUR EYE TO THE ENTRANCE WHILE SOFTENING THE NEW ADDITION. LOW PLANTINGS ARE SHOWN IN FRONT OF THE HISTORIC BUILDING TO ALLOW THE VISITOR TO HAVE A CLEAR VIEW OF THE HISTORIC ARCHITECTURE. SEE FULL NARRATIVE AND PLANT SPECIES ON SHEET LI05.



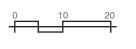




South West Elevation



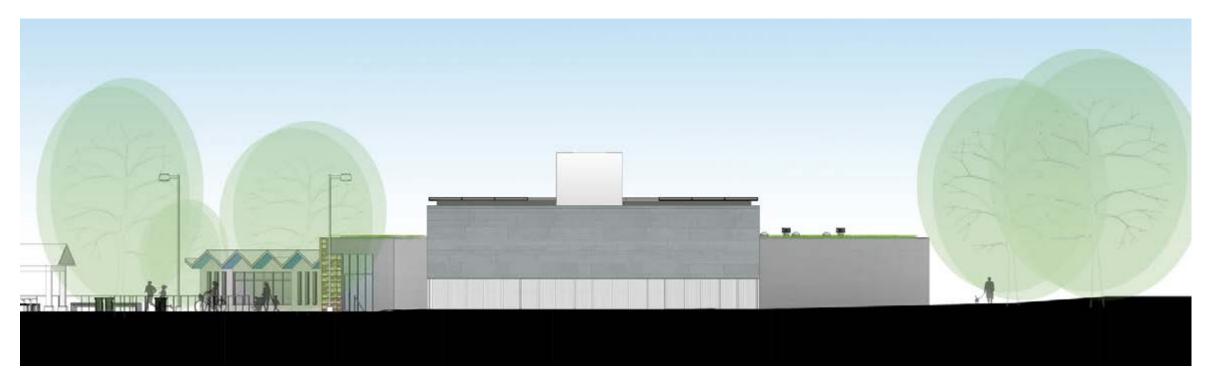
North East Elevation







South East Elevation



North West Elevation











OPTION 1 SCREEN LANDSCAPED TREES TURNED OFF FOR CLARITY



ENTRANCE VIEW WITH LANDSCAPED TREES

ADDITION + RENOVATION | Entry View NOT TO SCALE

The design focused on creating an early sequence that celebrates the existing historic field house, highlights the entrance and provides a lanscaped entry. Users enter along a boardwalk surrounded by flowing grasses and wildflowers, that help to soften the addition and highlight existing filed house.

The screen wall serves as another screen for the addition, so that the exisitng filed house remains the prominent element from the entrance. while also reducing solar heat gain and glare into the new addition. There are various options for the screen wall, with three options being presented on this page and the following page. All of the options intend to provide a perforated material that will allow light and visual connection from certain angles, while still creating a visual separation vetween the existing structure and the new addition.

OPTION 1:

This option explores creating a trapezoidal "unit" that can then be rotated and mirrored to create a randomized pattern throughout. Perforated metal panel "units" would be mounted to a steel sub-structure that sites outboard of the addition.





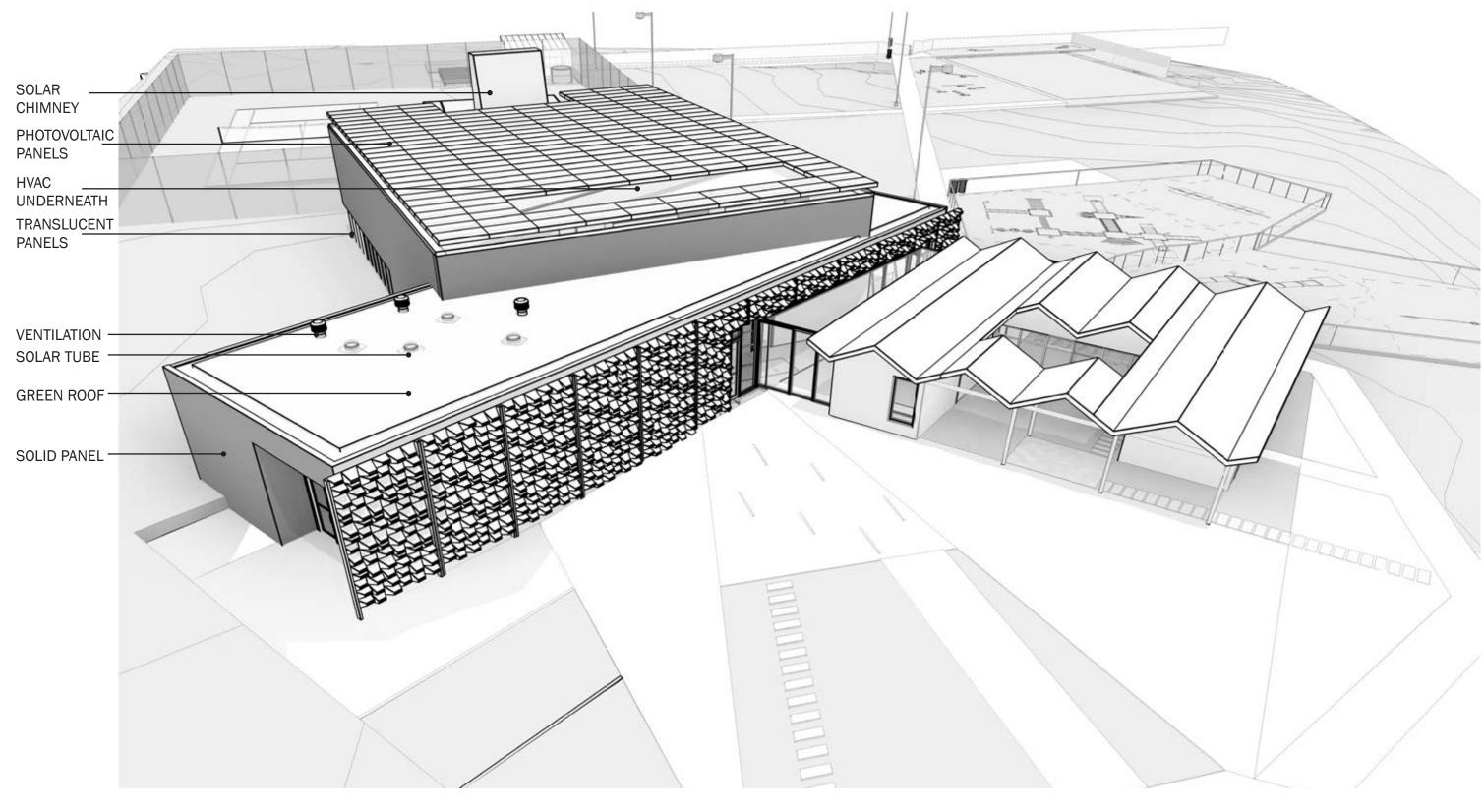
OPTION 2:

Option 2 uses an angled perforated louver to create a simplified screen that expresses the horizontality of the screeen and draws the eye towards the entrance and existing field house. The zigzag pattern uses the same angles of the existing roof, at a significantly smaller scale and in a different material in order to compliment, but not compete with the notable roof.

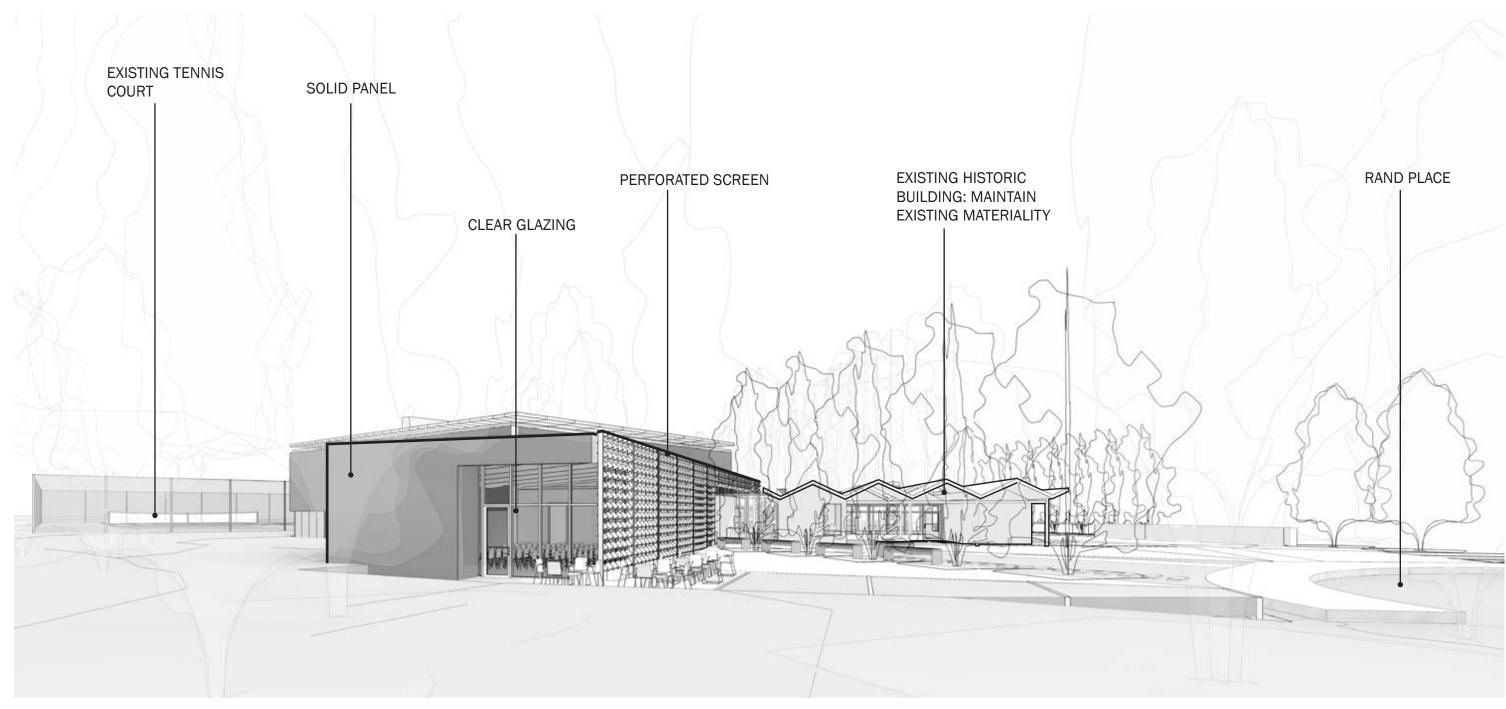


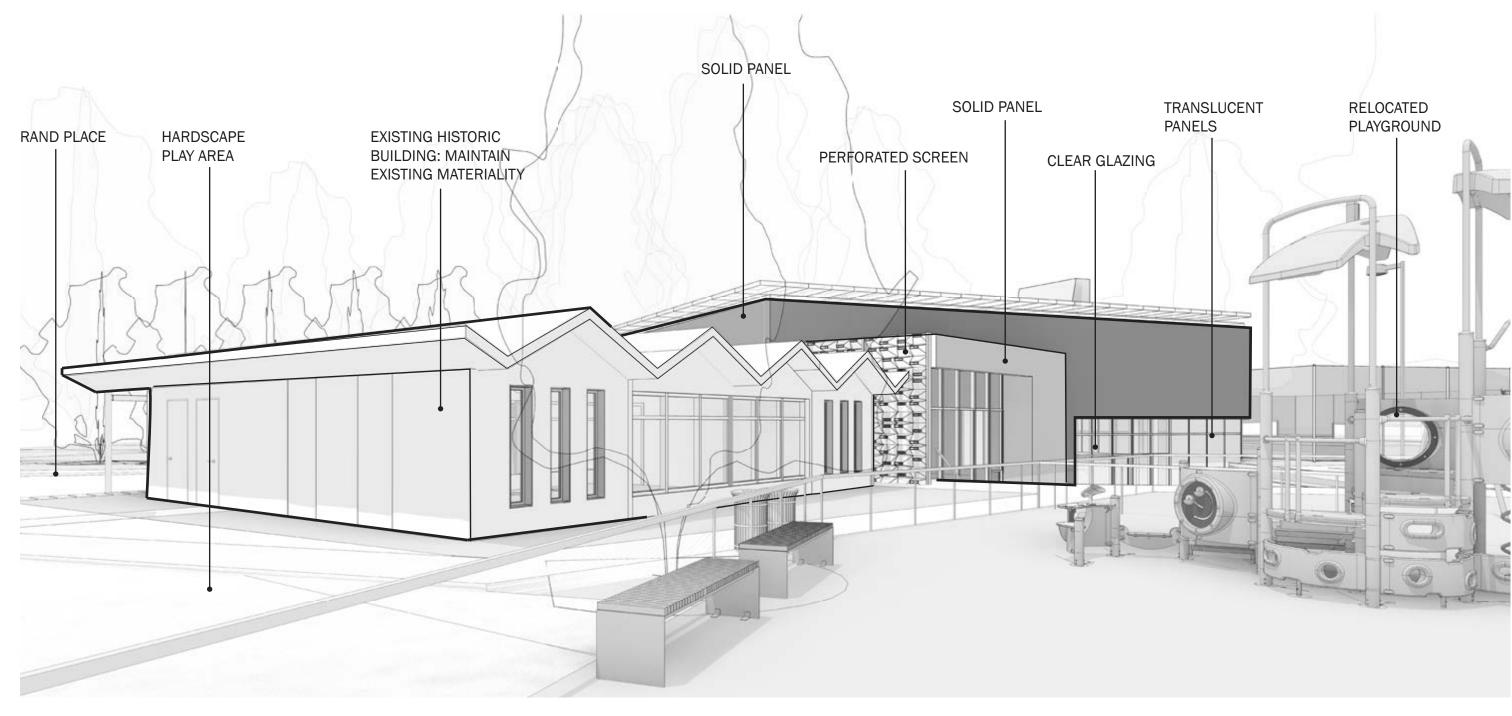
OPTION 3:

Option 3 uses a perforated fin to create a simple, understated screen. The fins are angled to screen the users view as they first approach from Rand Pl. As the viewer gets closer to the entry, views through the fins offer glimpses of the community room, technology lounge and lobby. The angle of the fins references the angle of the existing zigzag roof.

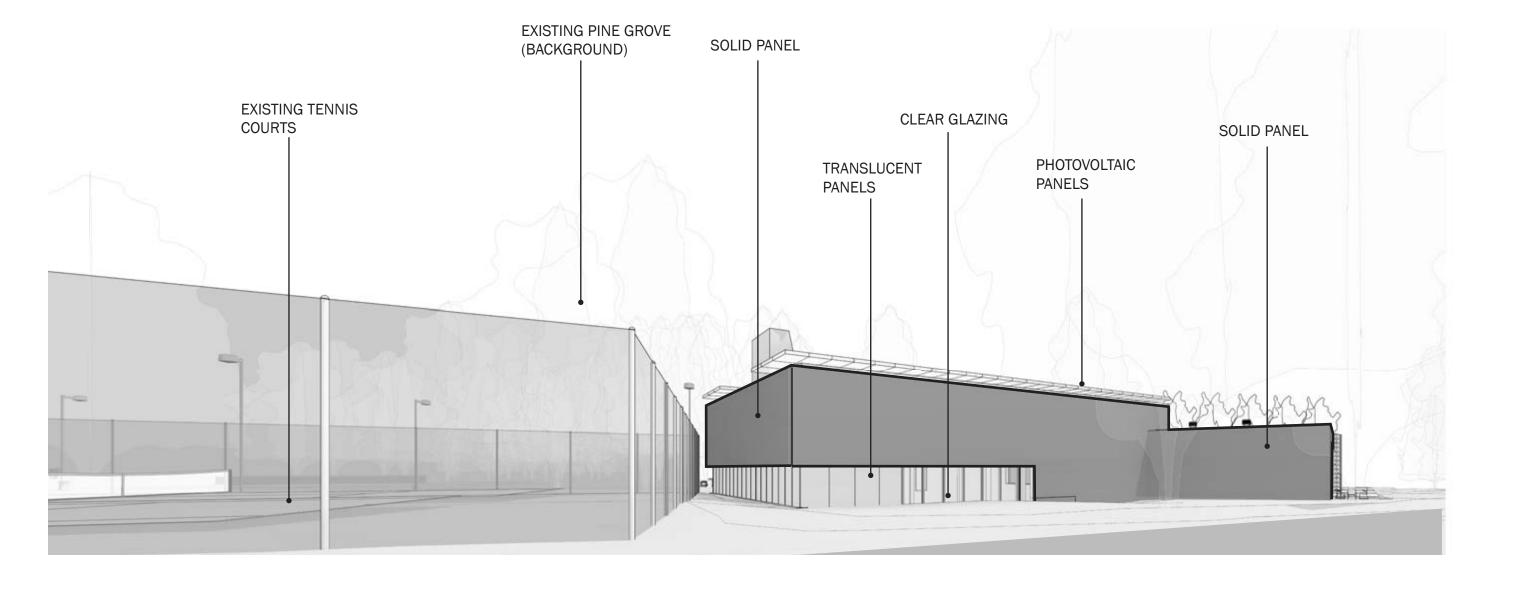


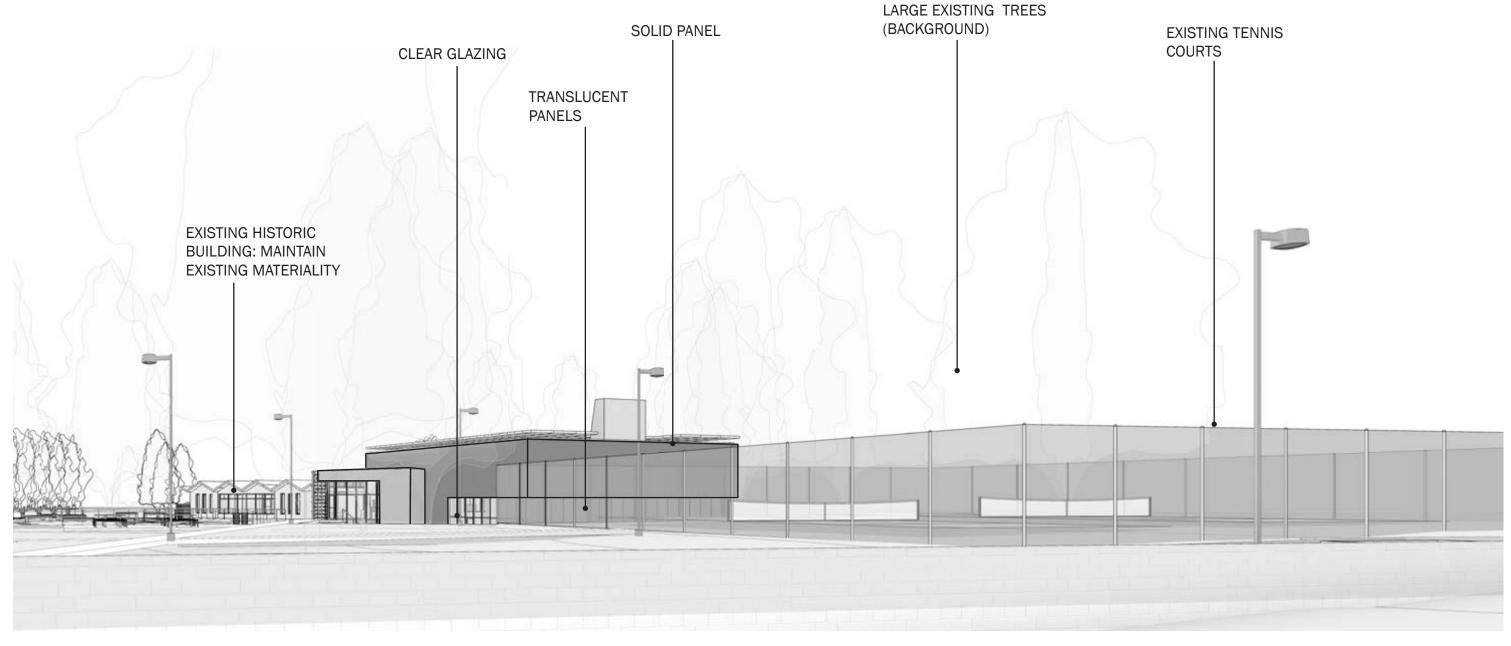




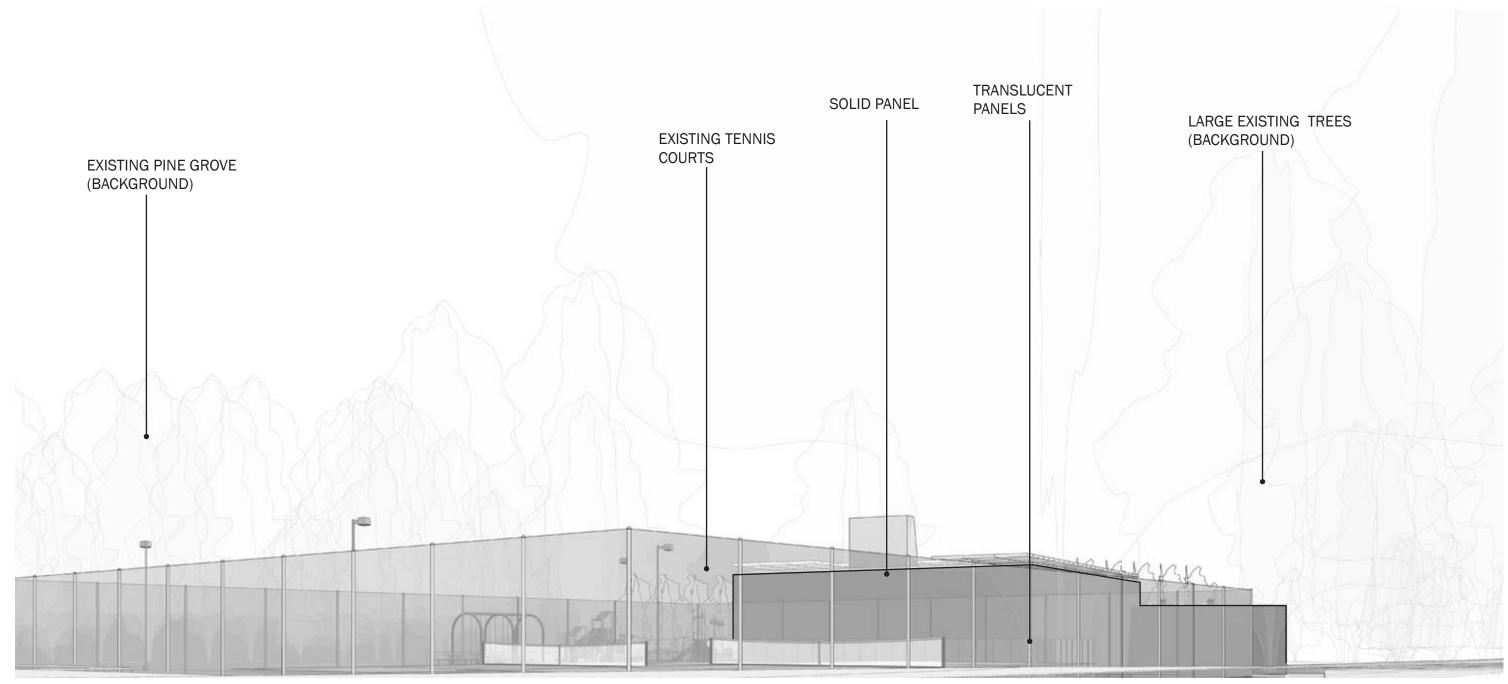


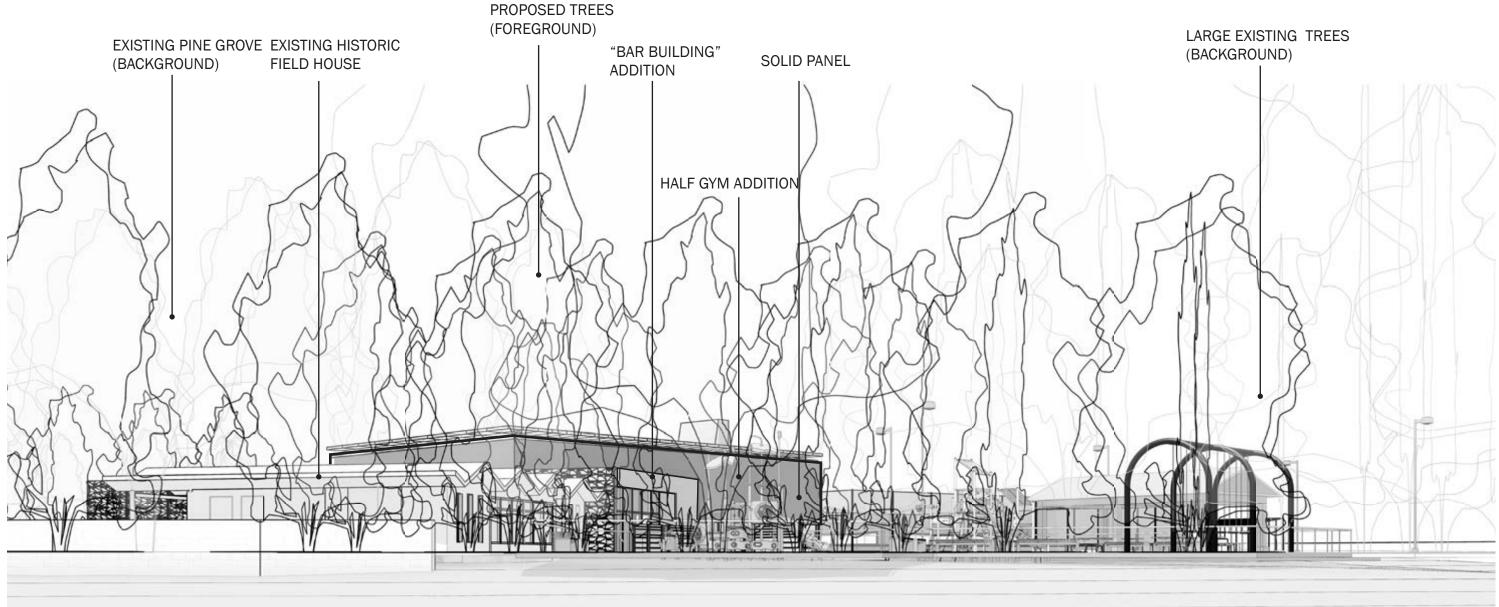












LARGE EXISTING +

The recreation center abuts the US National Arboretum on the south east side of the property. There is currently an existing grove of mature trees along the property line that will be maintained for privacy. The design team and client agency plan to work with Arboretum to explore the possibility of planting more trees along the property line as additional screening. Due to the existing conditions and the location of the property line, these trees would need to be located on the National Arboretum's property.



Existing View from Adjacent Parking Lot

