



Infinity Sports

This document presents the research and analysis conducted about the site conditions, along with the programming of building types in the complex and their dimensions, and finally diagramming the possible design organization of the complex.

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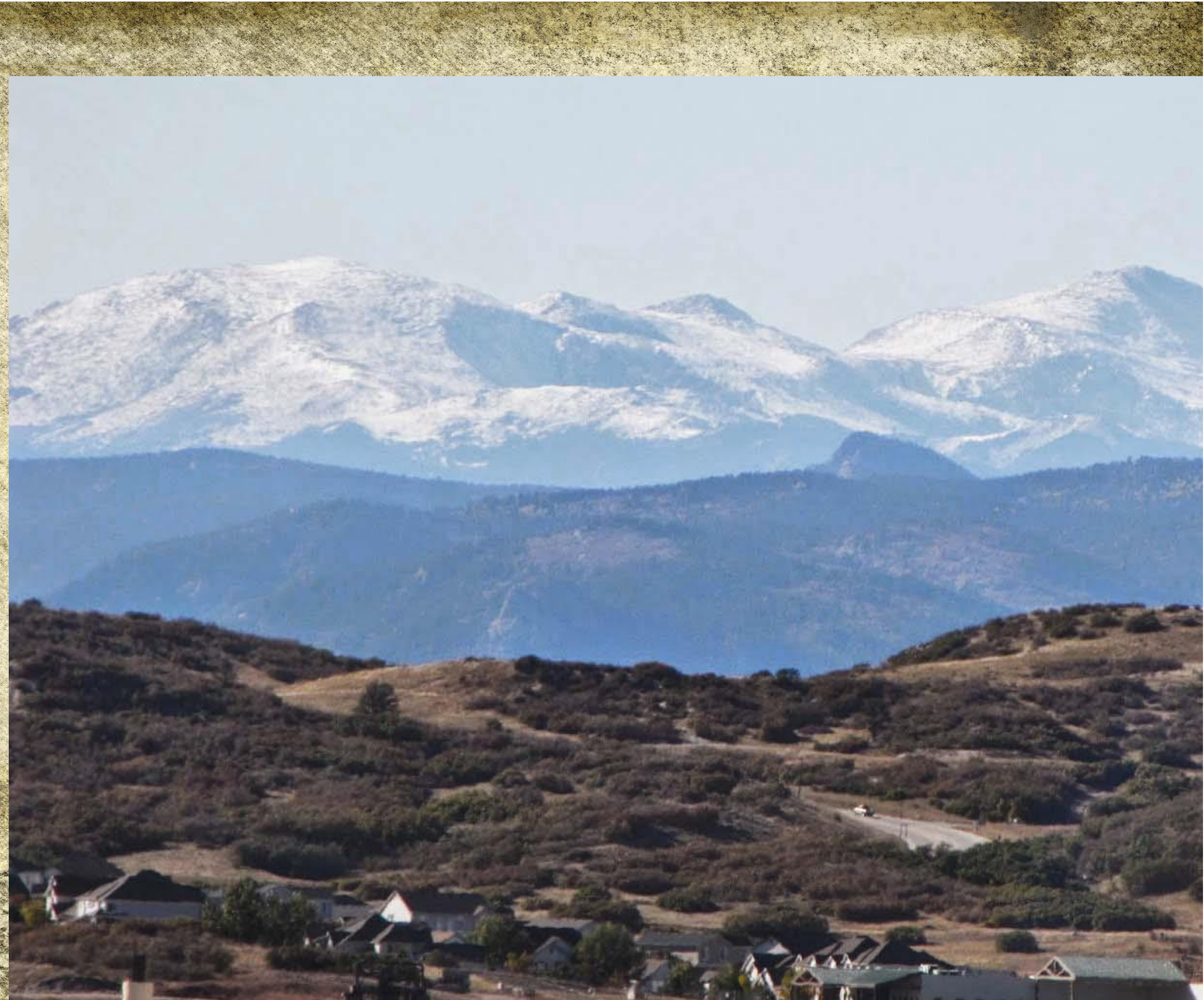
INFINITY SPORTS



Infinity Sports Site Analysis

General research and analysis about the conditions of the Infinity Sports Complex site and its surroundings including:

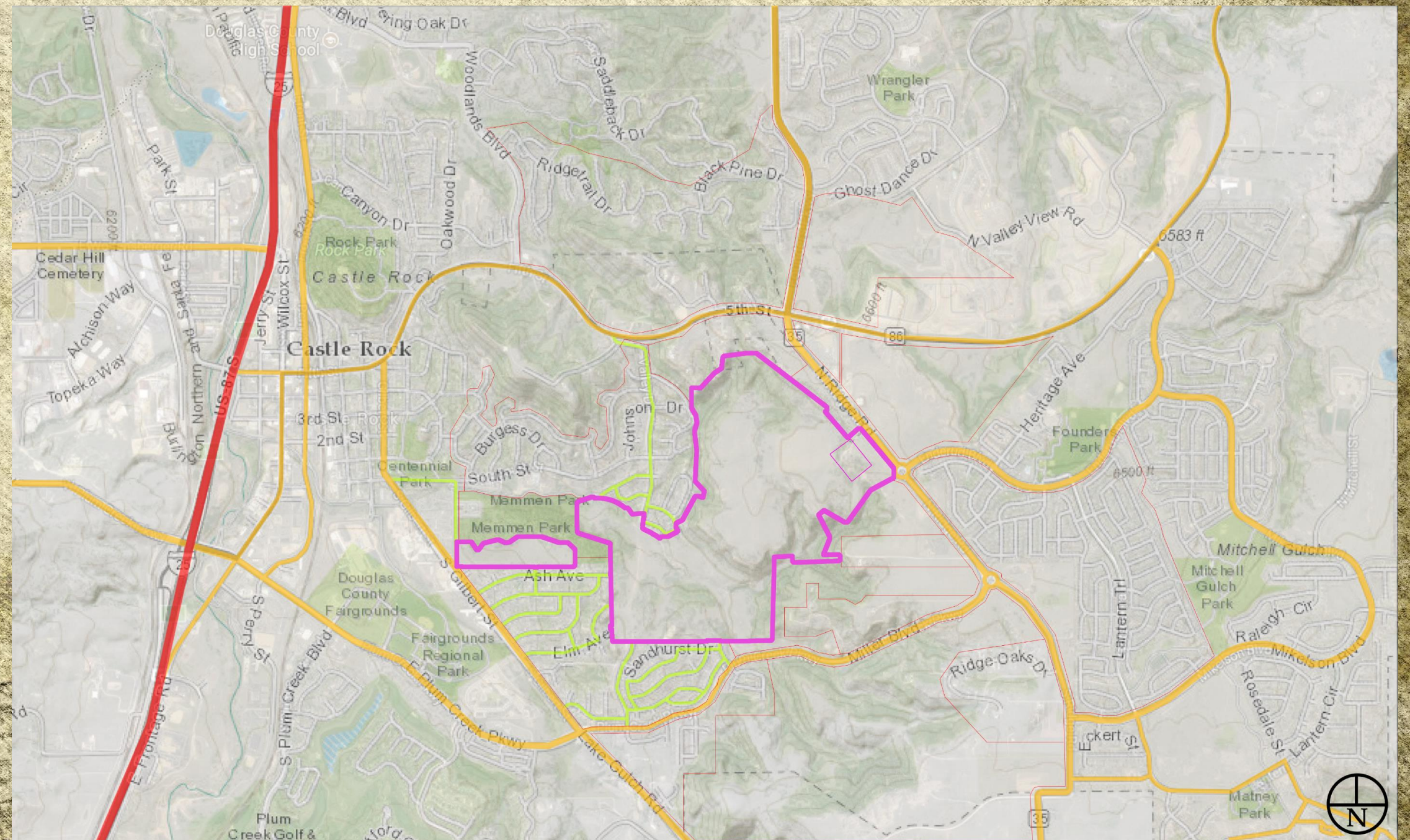
- Access / Egress.
- Solar Path and Lighting.
- Views from the inside looking out.
- Views from the outside looking in.
- Architectural and cultural context.





Infinity Sports Site Map

- The site covers approximately 310 acres West of North Ridge road.
- Generally the site is surrounded by suburban areas, closer to the Northwest, West, and Southwest.
- Land drops about 40'-60'.
- Memmen ridge park in the West.
- 46 miles away from Denver International Airport (48 minutes drive).
- 32 miles away from Downtown Denver (38 minutes drive).
- 3 miles away from Downtown Castle Rock (6 minutes drive)





Option A



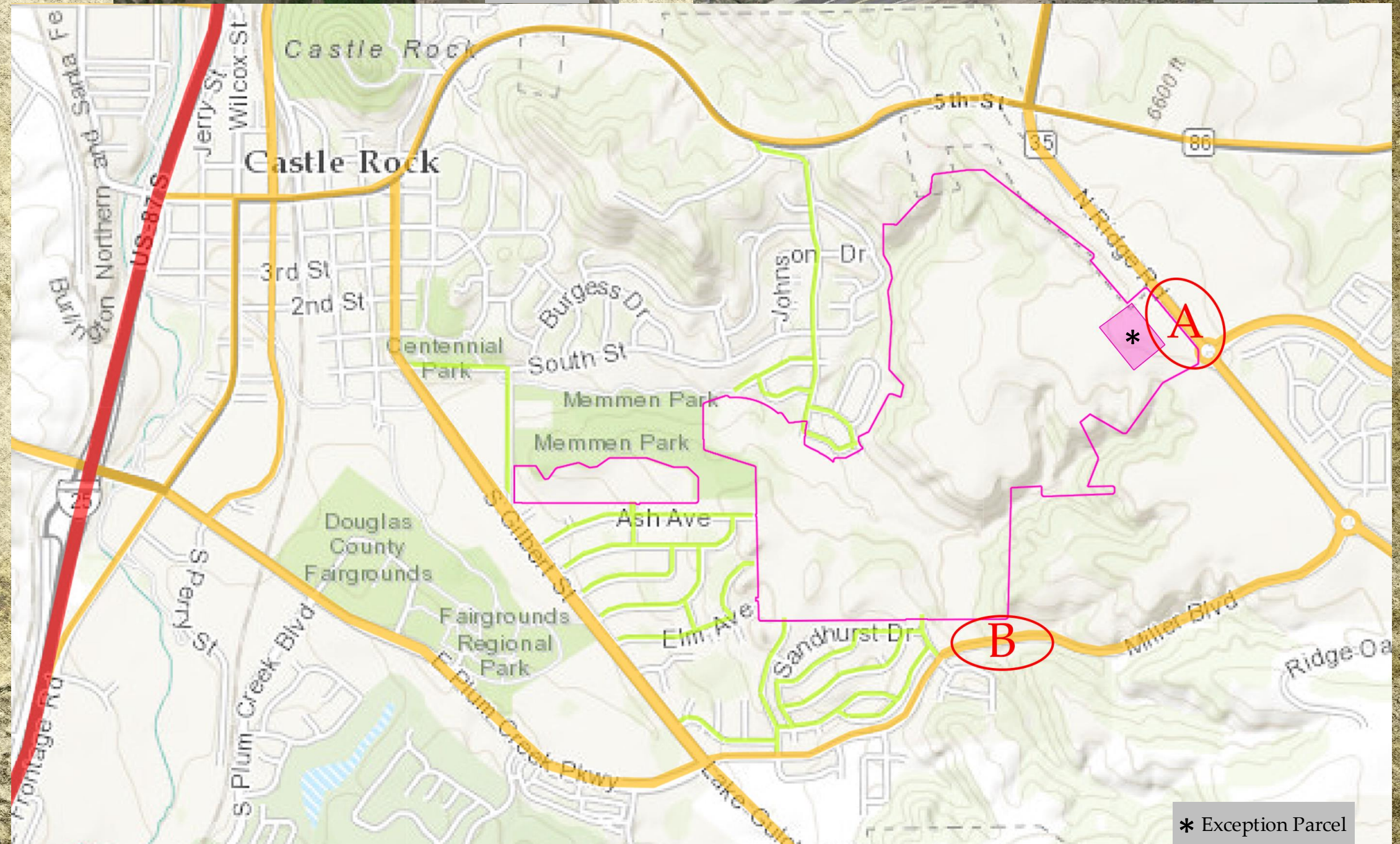
Option B

Infinity Sports Access / Egress

These entry and egress points were considered for their potentials to suit access for public attendees separate from the employees, and service access.

Option A:
Option A has quick access from Fifth Street, and CanAm Highway (US – 87 South), which are the two main way to and from Denver International Airport, and Downtown Denver. Also this point makes use of the narrow area east of the exception parcel.

Option B:
Option B is the most centralized possible entry and egress points providing a convenient access to both sides of the complex.



* Exception Parcel

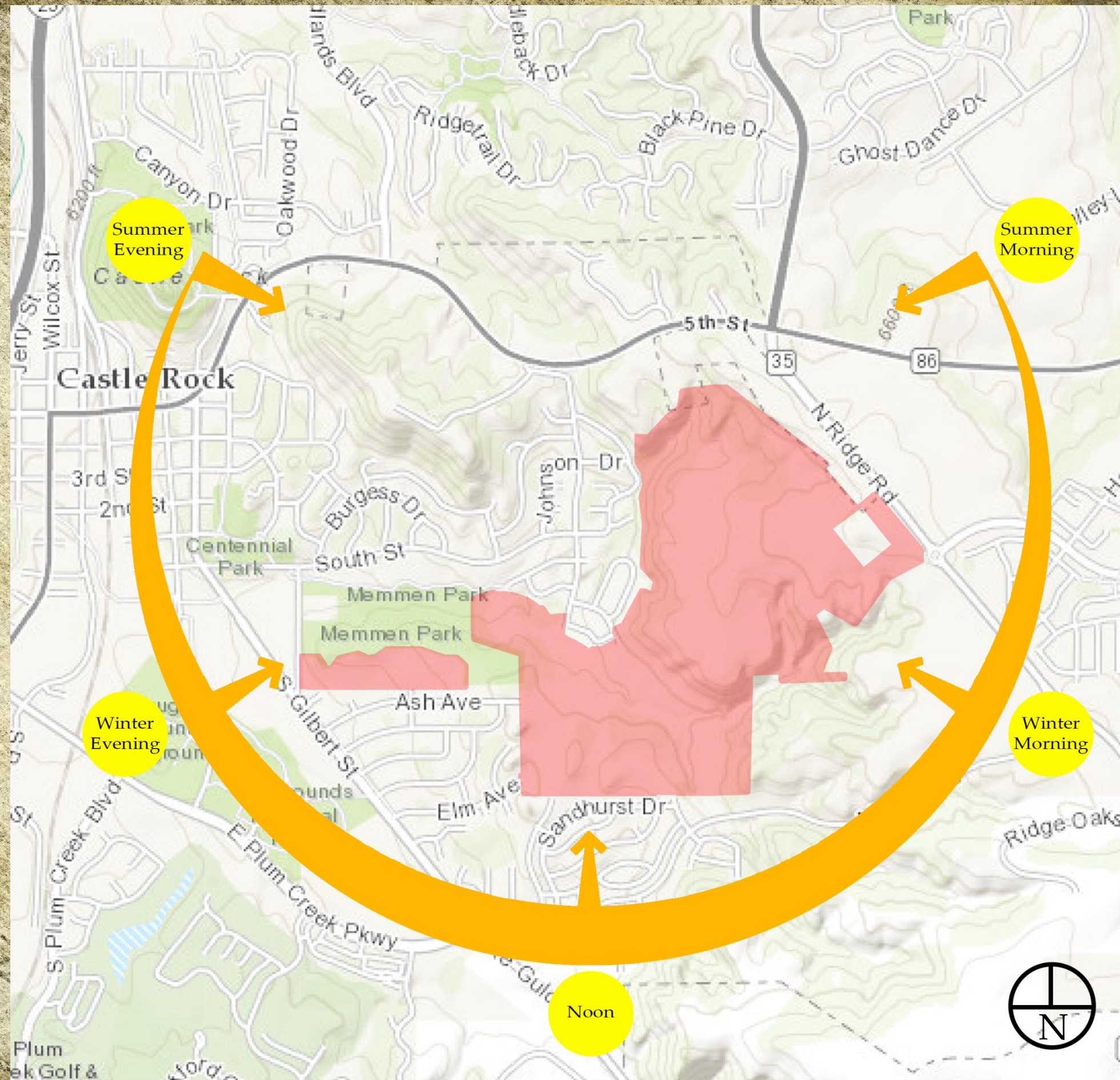


Infinity Sports Solar Path

In Summer Time (June) the natural light duration is 14 hours, from 5:00AM to 7:00PM.

In Winter Time (December) the natural light duration is 9 hours, from 7:39 AM to 4:30PM.

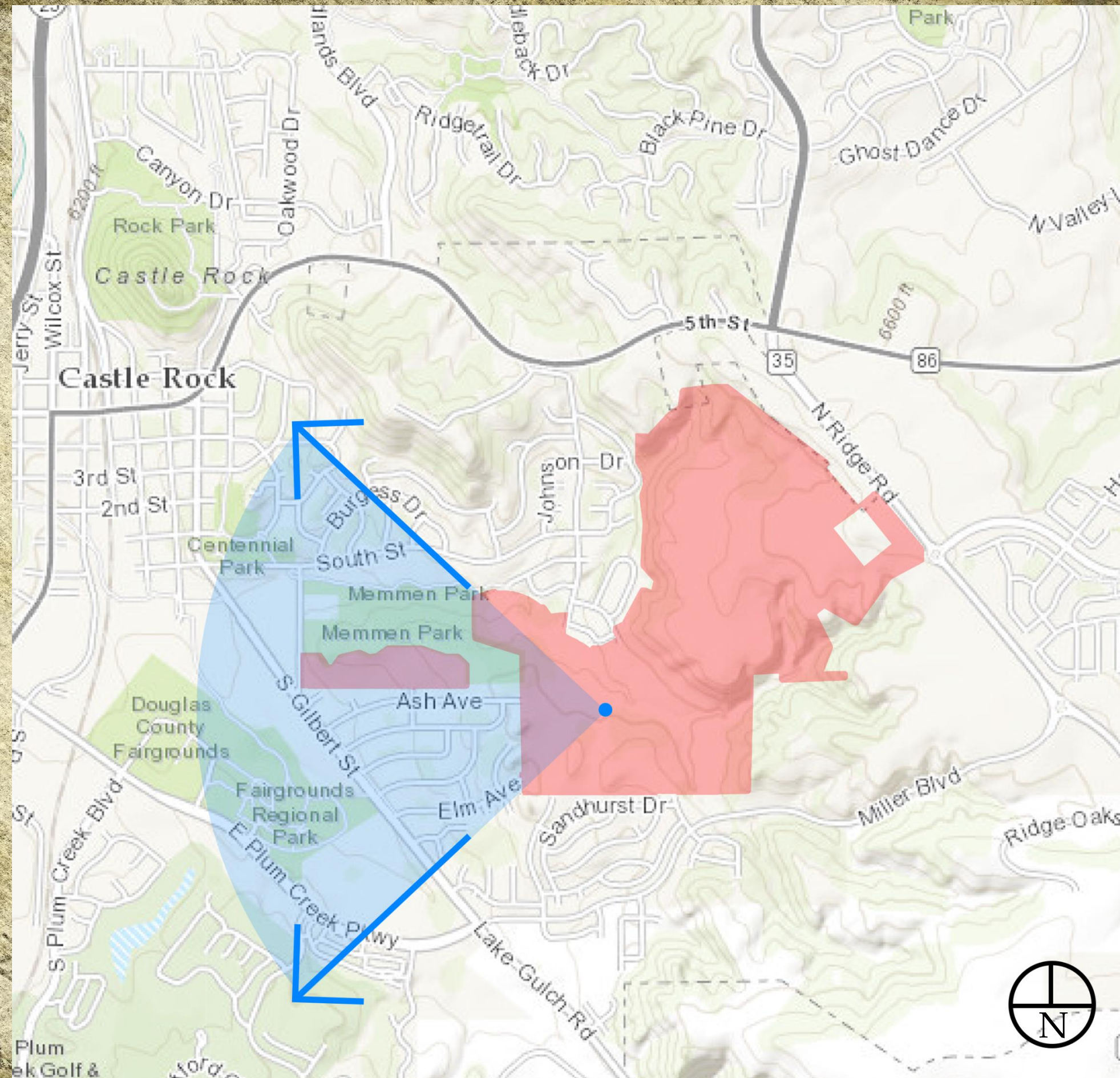
Sun concentration from East and West could be filtered utilizing the different levels of the topography of the site, and local vegetation.





Infinity Sports Views Inside - Out

The most prominent view in the area is of the mountains spanning from Northwest of the site to Southwest. While the mountains are far away from the site they are still visible. The view could be a backdrop to the Baseball Diamond and other outdoor fields.





Infinity Sports Views Inside - Out

In the background the Colorado mountains are in clear view including Pikes Peak.

The foreground includes a variation in topography, native foliage, and a series of houses that are part of suburban areas.

Between them the land formation is visible in the horizon along with its vegetation.



View from Memmen Ridge Park



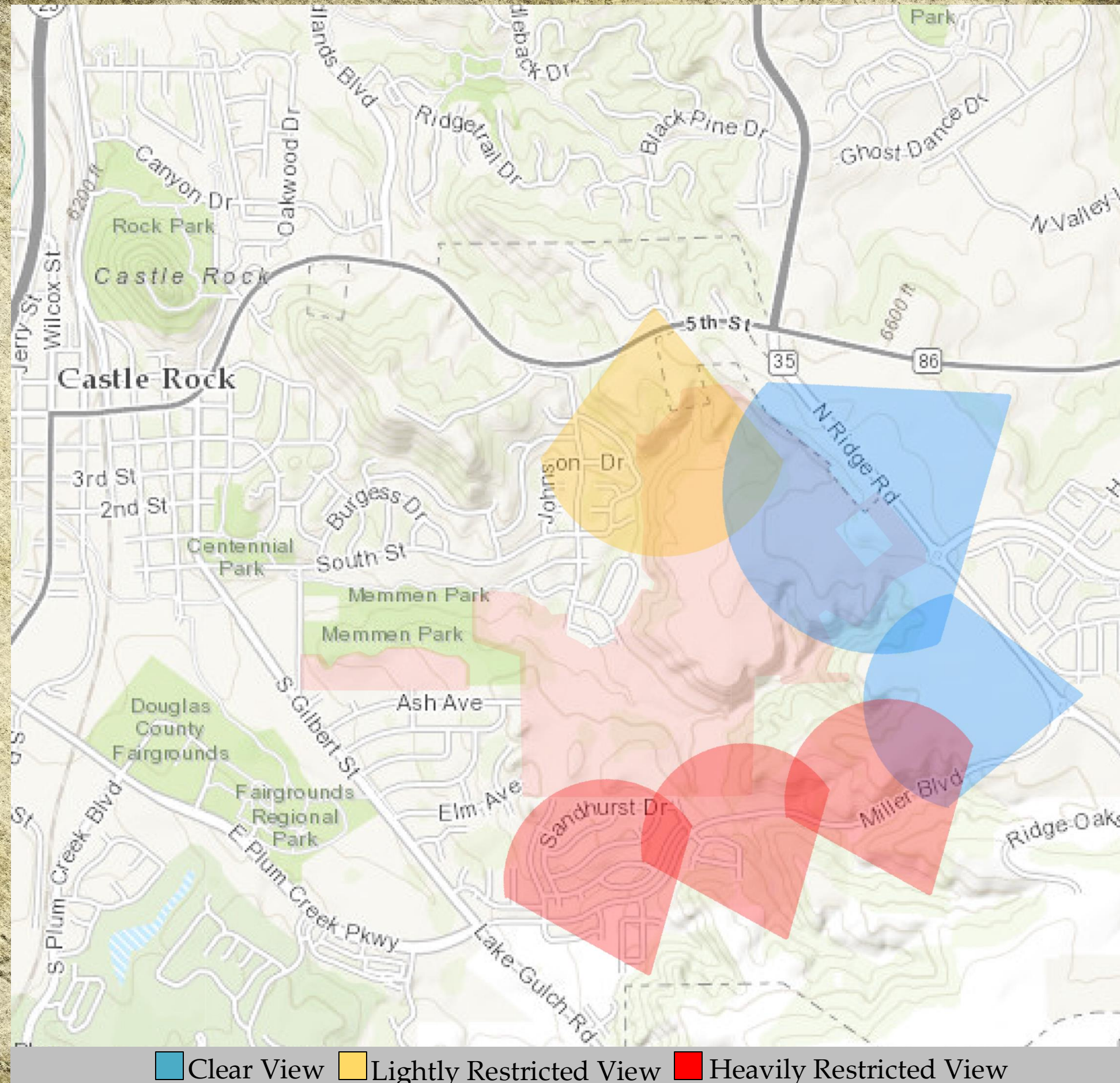
Infinity Sports Views Outside - In

Views of the site from East (North Ridge Road) has the most clarity due to the lighter vegetation and lower topography.

North of the site (Fifth Street) has somewhat Limited view to the site due to high topography only higher rise buildings would be visible.

Views of the South side (Plum Creek Parkway) is heavily obscured by trees and high topography.

The West side of the site mainly consist of suburban residential buildings which blocks the views and restrict access to non residents.





Infinity Sports Context

Distinct and interesting buildings and locations surrounding the site that factor in the design decisions of the buildings, and circulation.

Close to the site are Downtown Castle Rock connecting with the site, the Memmen Ridge trail is directly connected to the site, and St Francis of Assisi Church is to the North of the site.

Other distinctive surroundings are the University of Denver buildings, the University of Colorado buildings, and the Philip Miller Park.



Downtown Streetscape
Castle Rock, CO



St Francis of Assisi Church Exterior
Castle Rock, CO



Administration Building
University of Denver



Meadows Outlet
Castle Rock, CO



Philip Miller Park
Castle Rock, CO



Conference Center
University of Colorado



Memmen Ridge hiking Trail
Castle Rock, CO



Philip Miller Park Amphitheater
Castle Rock, CO



Daniel L. Ritchie Center
University of Denver



Infinity Sports Conceptual Programming

Programming analysis of the Infinity Sports complex. Included are the various sports venues for each sport and the size of play for each. Also considered are the supporting amenities, such as lodging, entertainment, and administrative.



Infinity Sports - Architectural Program - Athletic Venues


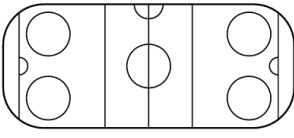
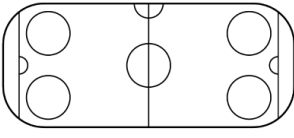
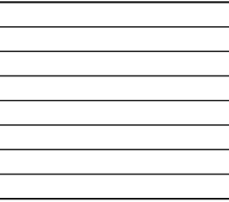
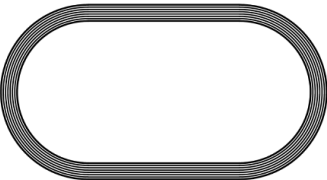
Program Group	Building / Facility	Description	Size	Diagram
Baseball (Full Size)	8 Outdoor Fields 8 Fields in 4 Indoor Facilities	Artificial Turf Field Dirt Infield and Warning Track Team Benches in 2 Dugouts along Basepaths. 250 Bleacher Seats for Spectators	330 Feet to Foul Pole 350 Feet to Center 90 Feet Basepaths	
Baseball (Youth Size)	8 Outdoor Fields 8 Fields in 4 Indoor Facilities	Artificial Turf Field Dirt Infield and Warning Track Team Benches in 2 Dugouts along Basepaths. 250 Bleacher Seats for Spectators	200 Feet to Foul Pole 216 Feet to Center 60 Feet Basepaths	
Softball	8 Outdoor Fields 8 Fields in 4 Indoor Facilities	Artificial Turf Field Dirt Infield and Warning Track Team Benches in 2 Dugouts along Basepaths 250 Bleacher Seats for Spectators	300 Feet to Foul Pole 300 Feet to Center 60 Feet Basepaths	
Basketball and Volleyball	8 Courts (Each Basketball Court Contains 2 Volleyball Courts) in 4 Indoor Facilities	Hardwood Flooring Distinctive Lines for Each Sport Room for 150 Spectators in Moveable Courtside Bleacher Seating at each Basketball Court	Basketball 84 Feet Long 50 Feet Wide Volleyball 60 Feet Long 30 Feet Wide	
Outdoor Basketball	4 Courts	High Performance Court Surface Courtside Bleacher Seating for Fans 100 Courtside Bleacher Seats for Spectators	84 Feet Long 50 Feet Wide	

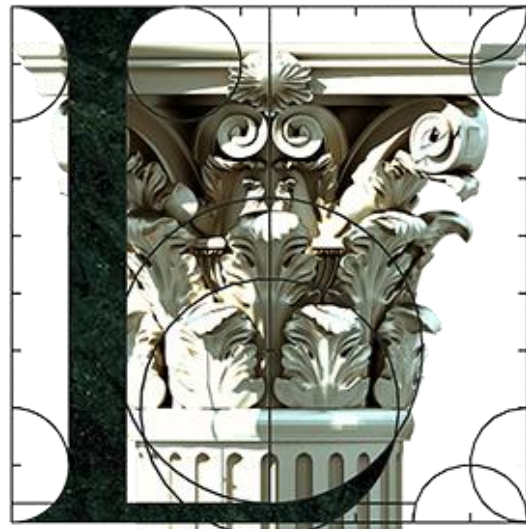


Infinity Sports Conceptual Programming



Infinity Sports - Architectural Program - Athletic Venues

Program Group	Building / Facility	Description	Size	Diagram
Soccer, Football, and Lacrosse	16 Outdoor Fields 8 Indoor Fields	Artificial Turf on All Fields Each Field has Markings for all 3 Sports 400 Bleacher Seats for Spectators	All 3 played in area 360 feet long and 195 feet wide	
Ice Hockey	4 Sheets of Ice in 2 Facilities	Dasher Board System 2 Team Benches, 2 Penalty Boxes, and Scorekeepers' Box 350 Bleacher Seats and Mezzanine Viewing Area for Spectators	200 feet long 85 feet wide	
Inline Hockey	4 Outdoor Rinks	Modular Floor System of Interlocking Polypropylene Tiles Dasher Board System 2 Team Benches, 2 Penalty Boxes, and Scorekeepers' Box 200 Bleacher Seats for Spectators	200 feet long 85 feet wide	
Swimming and Diving	Competition Pool	Locker Rooms and Restrooms Hot Tubs 250 Bleacher Seats for Spectators	75 feet long 60 feet wide	
Track and Field	Track	Vulcanized Rubber Running Track Natural Grass Infield with Sand Pits and Inflated Cushions for Field Events 600 Bleacher Seats for Spectators	400 Meter Track Field Events within Oval	



Infinity Sports Conceptual Programming



Infinity Sports - Architectural Program - Supporting Amenities

Program Group	Building / Facility	Description	Size	Diagram
Retail Spaces	"Village" Setting "Outdoor Market" Setting	Village Setting Includes 10-12 Shops on either Side of a Boulevard Outdoor Market Setting Includes 4-8 Shop in a Bazaar Setting	3,000 Square Feet For Village Setting 2,000 Square Feet For Bazaar Setting	
Childcare Center	1 Facility	Space for Children to Play, Indoors and Outdoors Space for Administrators and Childcare Professionals	10,000 Square Feet	
Restaurants	8 Restaurants Dispersed Around Grounds	Family Restaurant with Colorado Cuisine, Ethnic "Food Hall" Market, Pop Music Oriented Restaurant, Barbeque Restaurant, Asian Fusion Restaurant, and Brewery Pub, Coffee House Kitchen and Back of House for Each	2,500 Square Feet Each	
Family Entertainment Center	1 Venue	Hall for Birthday Parties, Meeting Space, 8 Function Rooms Full Service Catering	8,000 Square Feet	
Walking/Running Trails	Outdoor Paths	Scenic, Landscaped Trails Around the Campus	To Be Determined	



Infinity Sports Conceptual Programming



Infinity Sports - Architectural Program - Supporting Amenities

Program Group	Building / Facility	Description	Size	Diagram
Indoor Recreational Pool	1 Indoor Facility	Includes a Play Pool, Wave Pool, Kids Pool, Baby Pool, Lazy River, and Water Slides Spray Elements and Splash Pads Paved Patio Surrounds Pool House and Changing Rooms	80,000 Square Feet	
Outdoor Recreational Pool	1 Outdoor Space	Includes a Play Pool, Baby Pool, and Water Slides Cabanas, Pool Houses, and Changing Rooms for Shade and Rest Rooms Paved Patio Surrounds with Fire Pit, BBQ Pit, and Outdoor Kitchen	40,000 Square Feet	
Hotel	1 Facility	Guest Rooms Wings with Common Spaces, Breakfast Room, Banquet and Convention Halls Restaurant, Kitchen, and Back of House Catering Center	400 Rooms (Includes 24 Suites and 6 Hospitality Suites) 200,000 Square Feet Total	
Team Villas	Campus of 4 Villa Types	Type 1: 4 Bedroom, Shared Terraces Type 2: 8 Bedroom, with Shared Interior Great Room and Terrace Type 3: 16 Bedroom, Multi-Party Unit with Two Stories and Shared Bridge Type 4: 2 Bedroom On Joined Concourse	420 Square Feet Per Room 45-50 Acres Total	
Administration	1 Facility	Offices for Complex Administration, First Aid Services, Groundskeeping and Equipment Storage, and General Storage Space for up to 120 Employees	30,000 Square Feet	



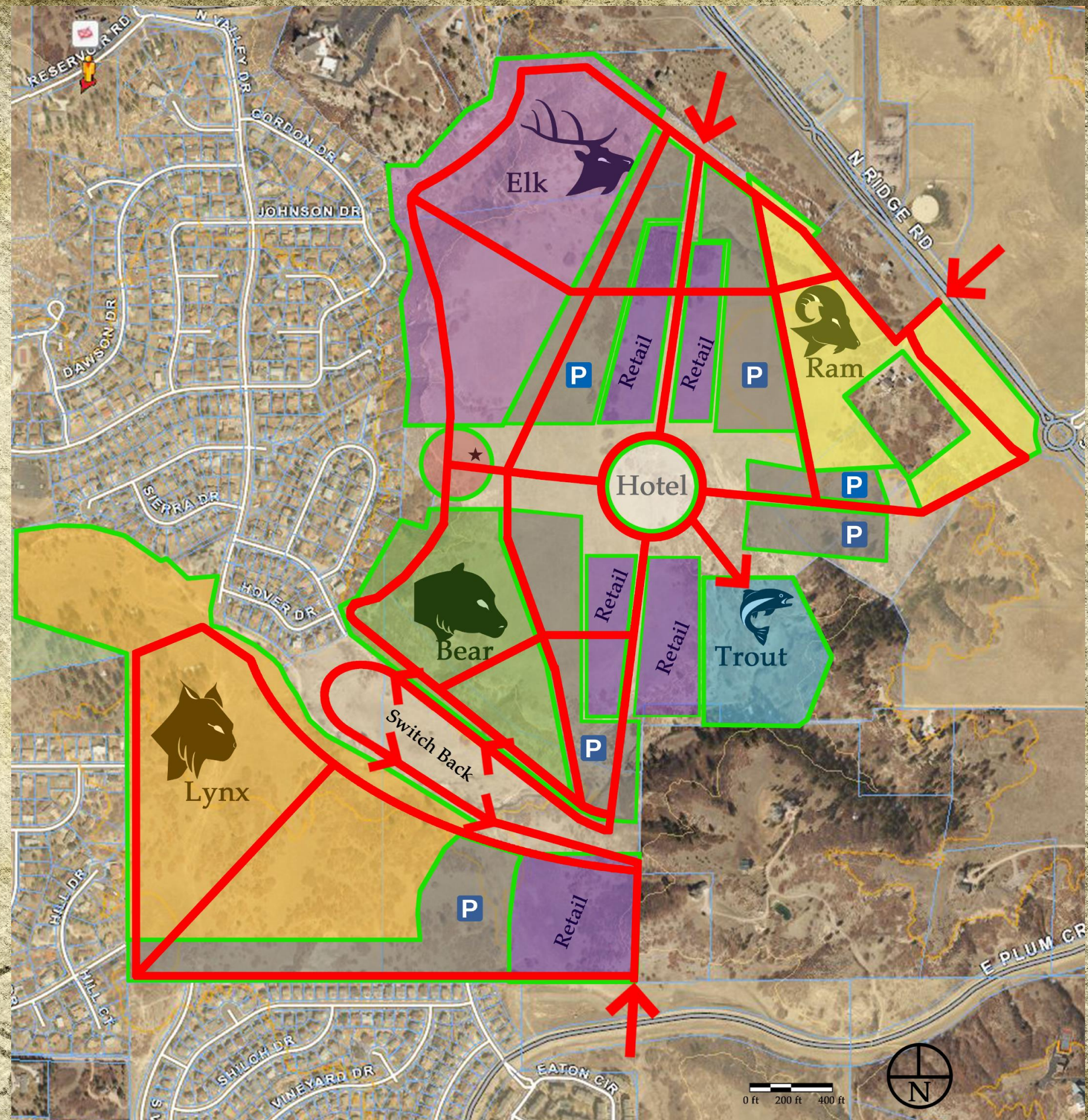
Infinity Sports Bubble Diagram and Circulation

The first stage for conceptualizing the design organization, and circulation of the sports complex.

The diagram shows rough arrangement of different areas of the site and how to get to them.

Each area is named after an animal local to Colorado, and they act as a distinctive landmark to be easily recognizable to the attendees.

Each of the five main areas (Elk, Bear, Lynx, Trout, and Ram) will have sports courts and fields to their that are appropriate to their position along with lodging for the team players.

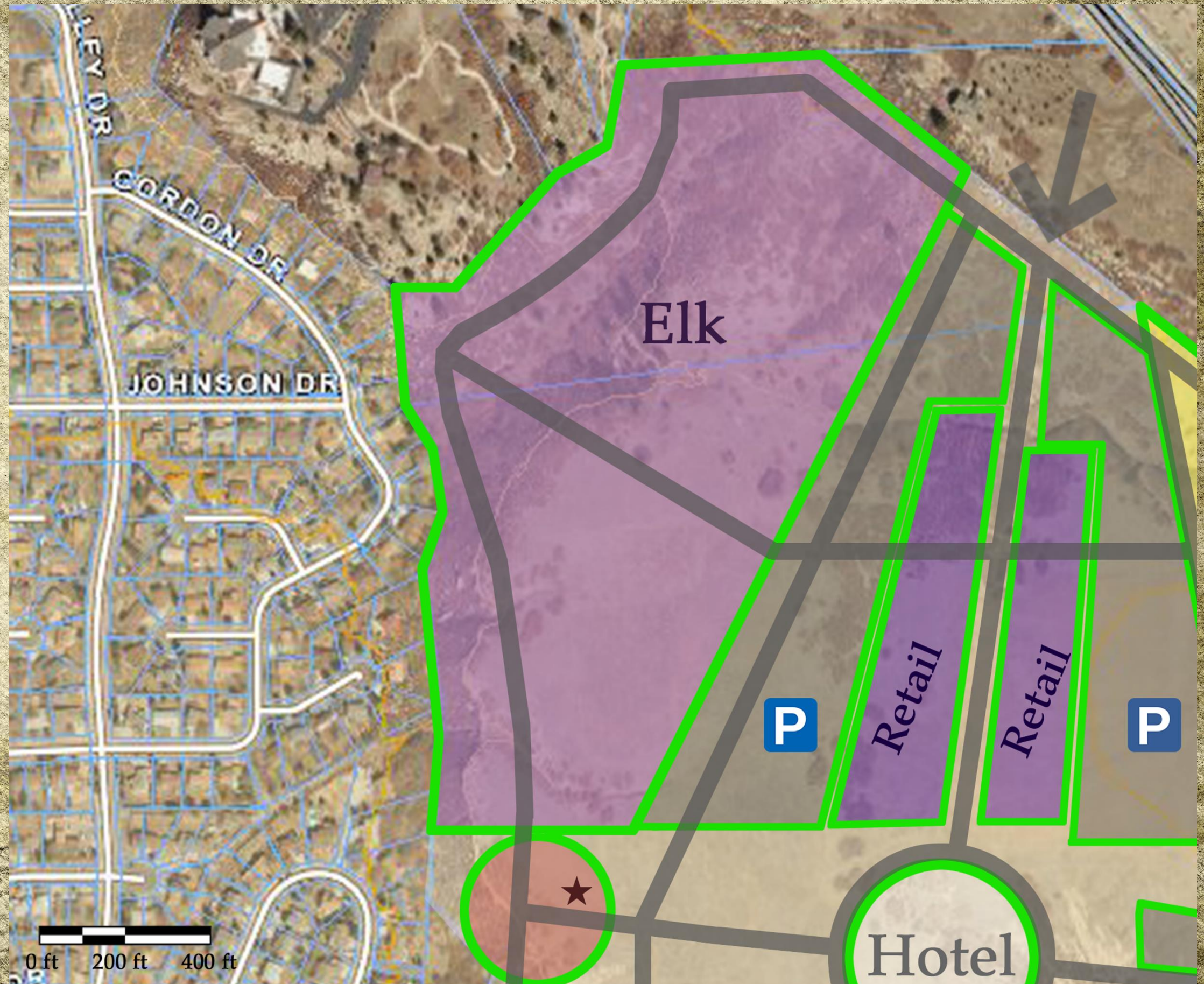




Infinity Sports Bubble Diagram Elk

The Elk location is the second biggest area. It is situated to take advantage of the high plateau and view towards the mountains.

This area is suitable to have baseball diamonds, soccer/football fields, the track and field, and any other outdoor fields along with their respective lodges.





Infinity Sports Bubble Diagram Bear

The third biggest area. Bear is also situated to take advantage of the high plateau and view towards the mountains.

This area is another candidate to have baseball diamonds, soccer/football fields, the track and field, and any other outdoor fields along with their respective lodges.

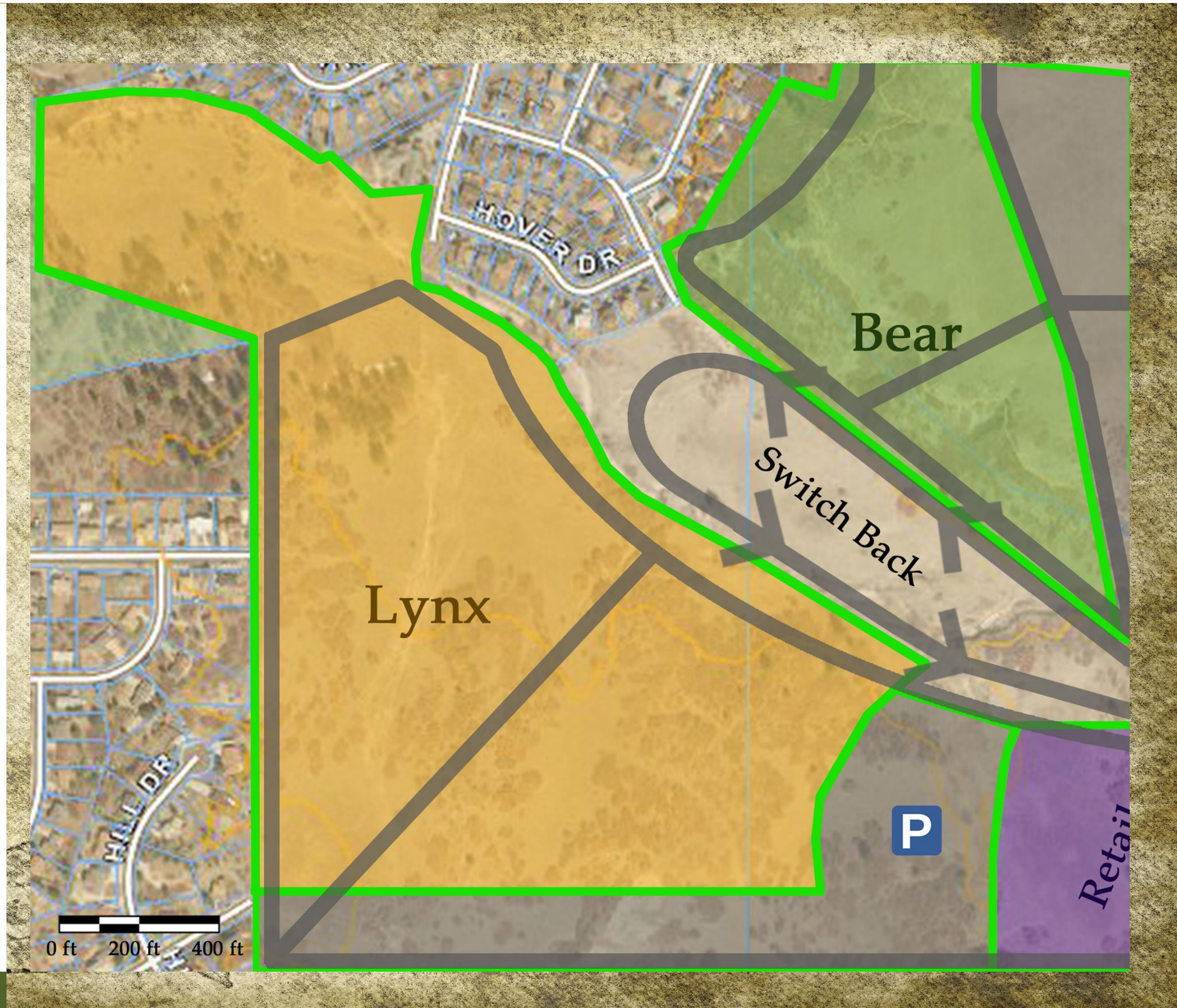


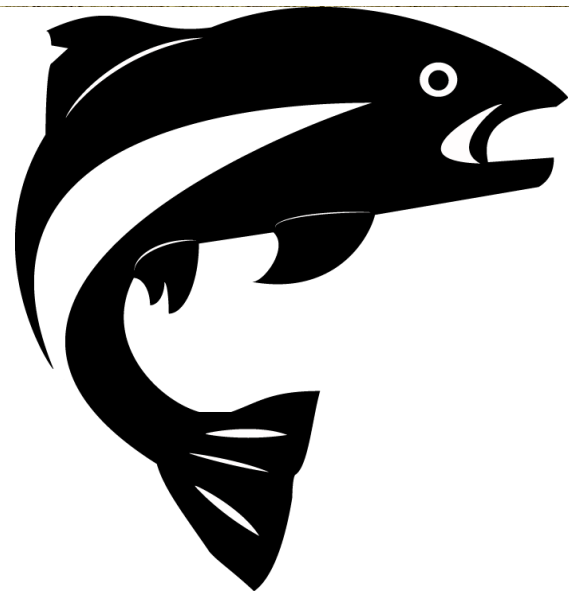


Infinity Sports Bubble Diagram Lynx

The largest area of the site. While its in the low part of the site it is still an open area that could have a view to the mountains.

The area is large enough to have the large outdoor fields and diamonds with additional indoor fields such as hockey and other buildings.



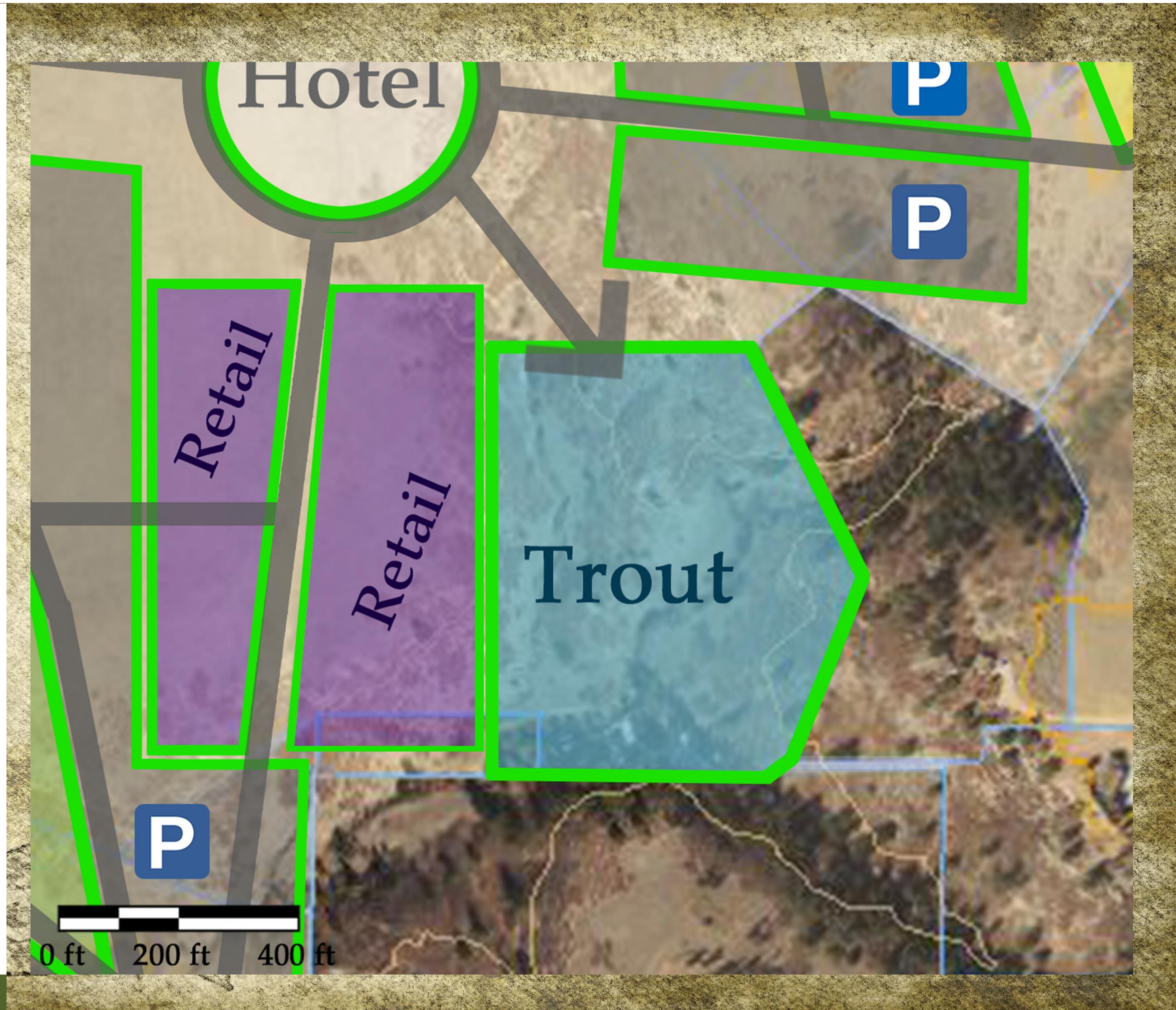


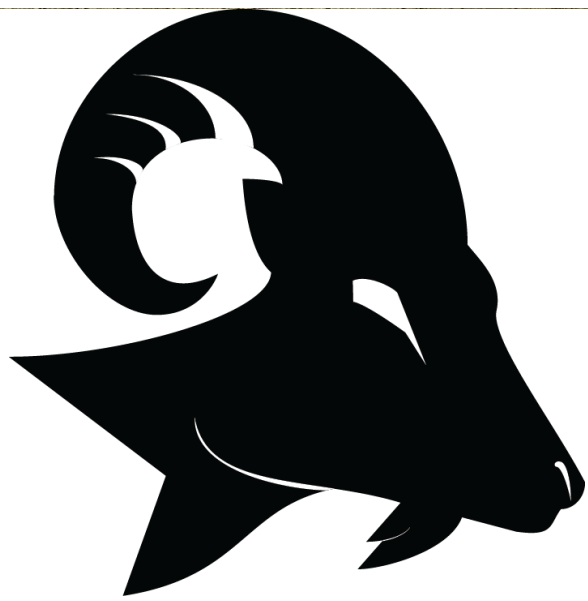
Infinity Sports Bubble Diagram Trout

While Trout is the smallest, its perimeter has regular geometry, allowing the use of most of its square footage.

Due to its location and the fact that it has bodies of water running along its surface, it is appropriate to use the area for both the Olympic pools and the recreational pools.

We may consider designing an infinity pool water element (or more than one) to accentuate the Ridge Perimeter.



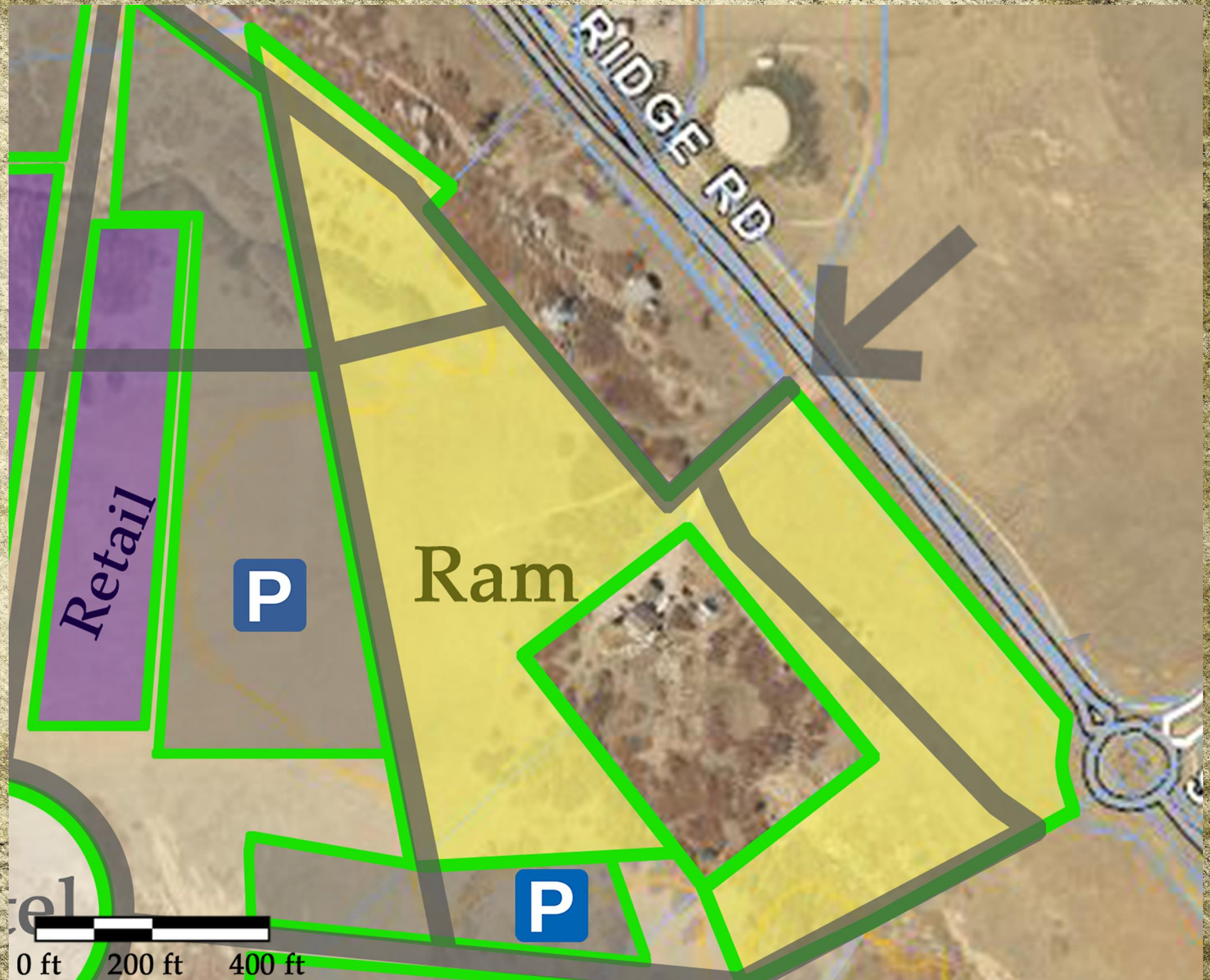


Infinity Sports Bubble Diagram Ram

Because of the exception parcel, Ram shapes an irregular form making it difficult to have the large outdoor arenas.

So the appropriate use of the area is to have the small indoor courts such as basketball and volley ball.

We may recommend striving to obtain the exception parcel.





Infinity Sports Bubble Diagram Special Area

The area in the East edge of the site (between Elk and Bear) has the potential to be an area that attracts visitors because of its location and orientation.

May be suitable for a convention center, ceremonial space, banquet hall, or a virtual reality center. (or all of the above)

