# SEATTLE ARENA DECEMBER 06, 2012 DESIGN COMMISSION CONTEXT AND URBAN ANALYSIS STANDARD ARENA PROGRAMMING

# INTRODUCTION

This document is the first in a series of Design Commission submittals made in reference to a proposed arena to be located within the "Stadium District". The general intent of the document is to inventory the existing site context, begin a basic synthesis of this information, and provide the audience a general understanding of the building components that collectively form a prototypical arena.

The site context was investigated to gain an understanding of what influences have shaped the place and establish a historic timeline of major development. The variables involved in this research include the history of the site, both the natural and built forms adjacent the site, a climate analysis and how the city interacts with the site on a daily basis.

The synthesis of the context begins to inform how a new arena development might stitch itself into the neighborhood, and continue to build on a set of paths and nodes that are already established. Standard Arena Programming dissects a prototypical arena, level by level, informing the audience of the many layers, relationships and adjacencies considered as an arena is designed on any site.

Subsequent Design Commission submittals will build upon the analysis and synthesis established in this document, and develop a set of building design options.

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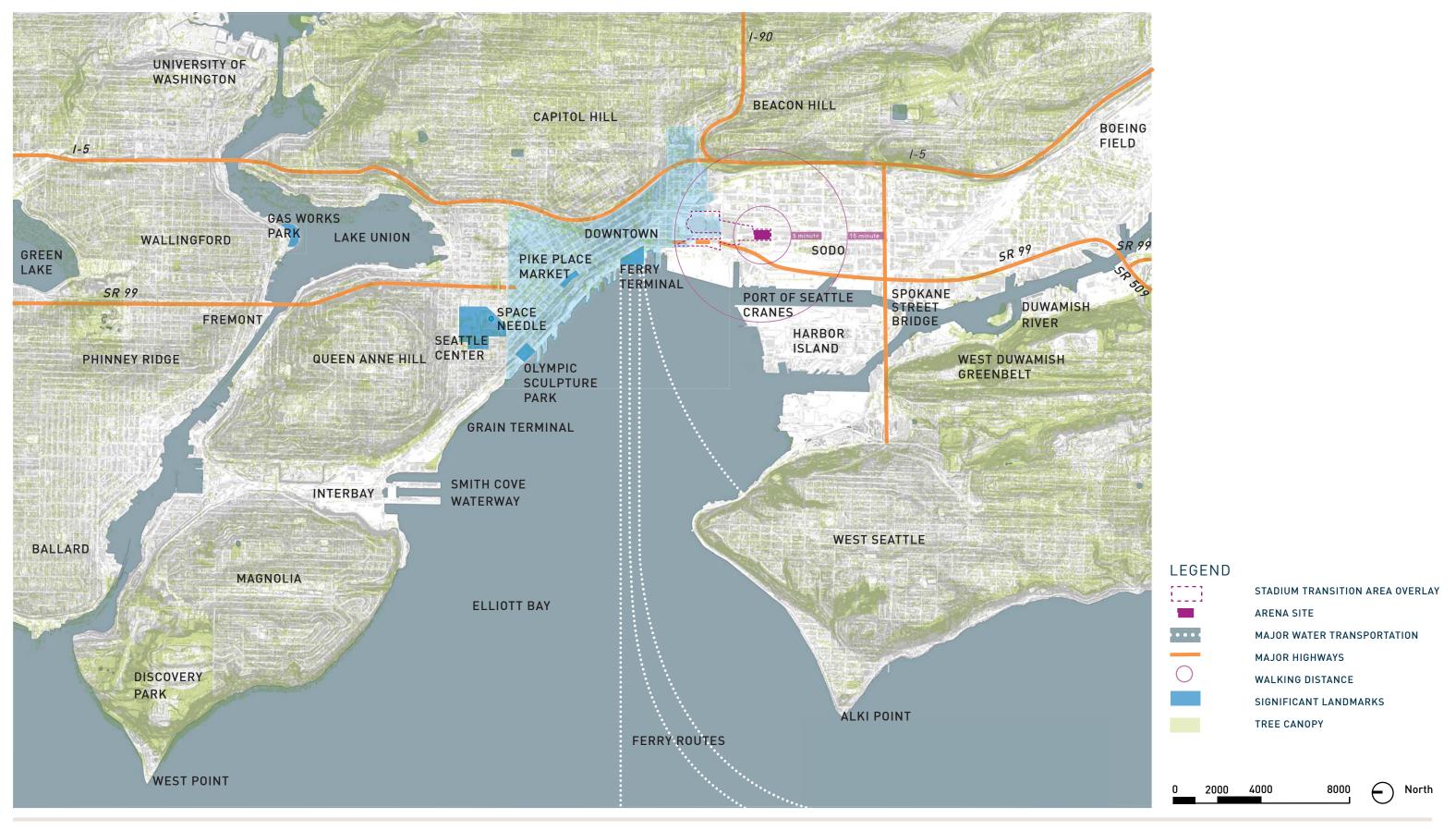
OPTION 1

**OPTION 2** 

PREFERRED OPTION









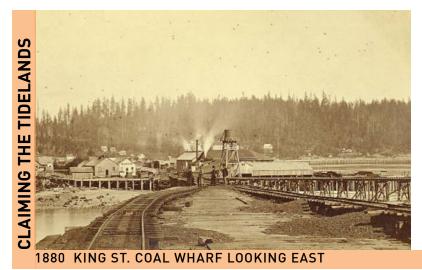
CONTEXT: CITY CONTEXT



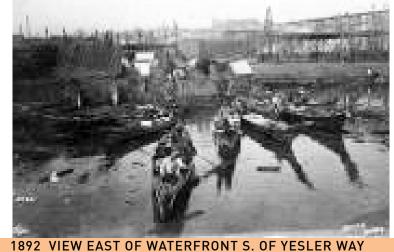


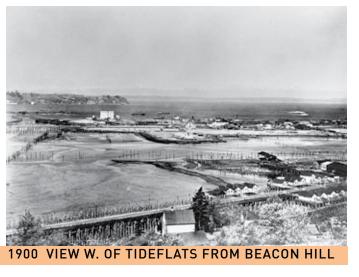
CONTEXT: CITY VIEWS

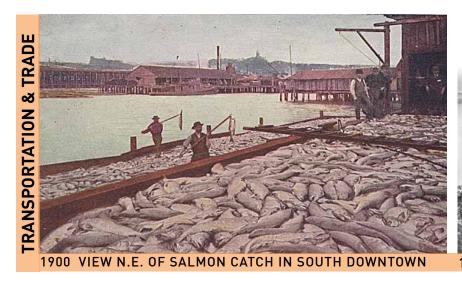




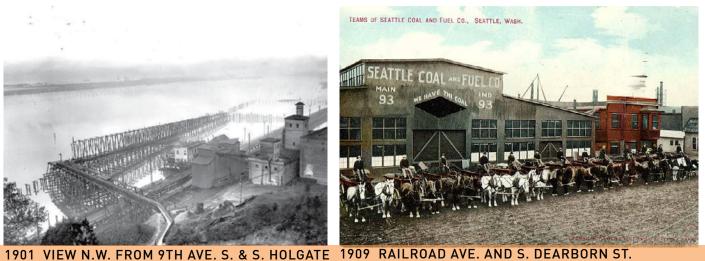


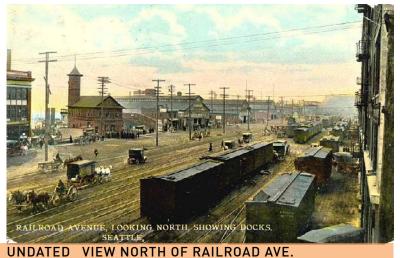


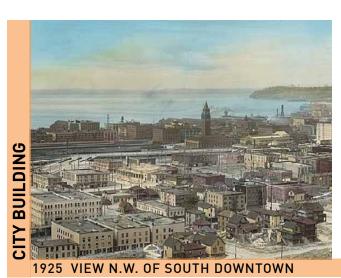






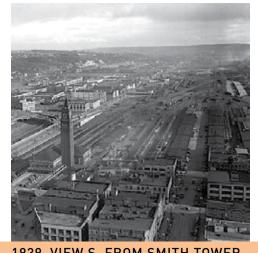


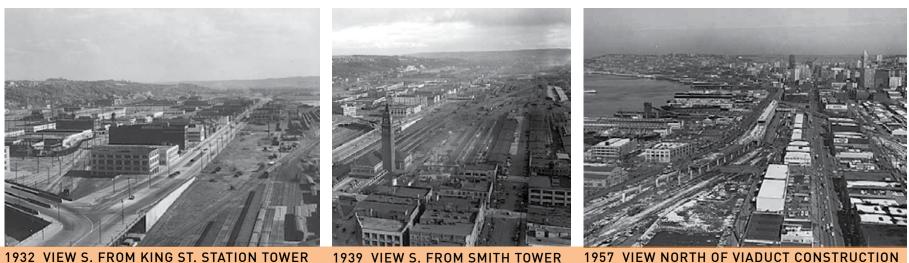












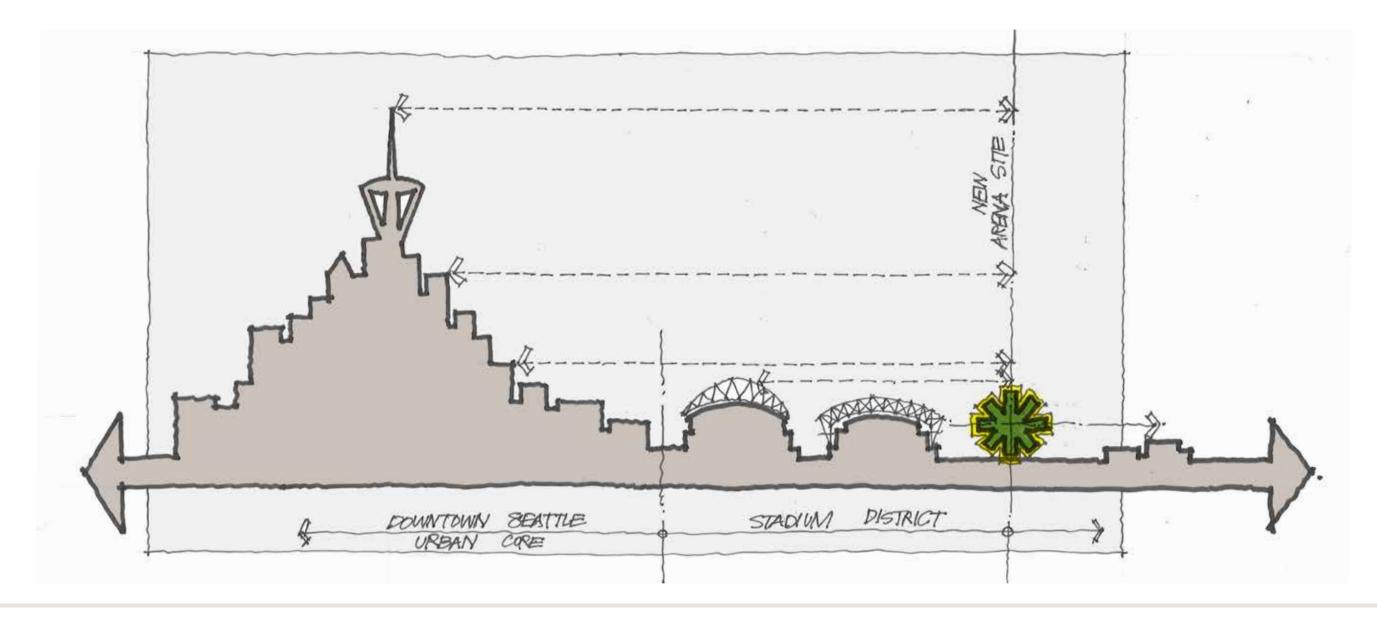
**SEATTLE ARENA** DECEMBER 06, 2012

HISTORY: HISTORIC TIMELINE



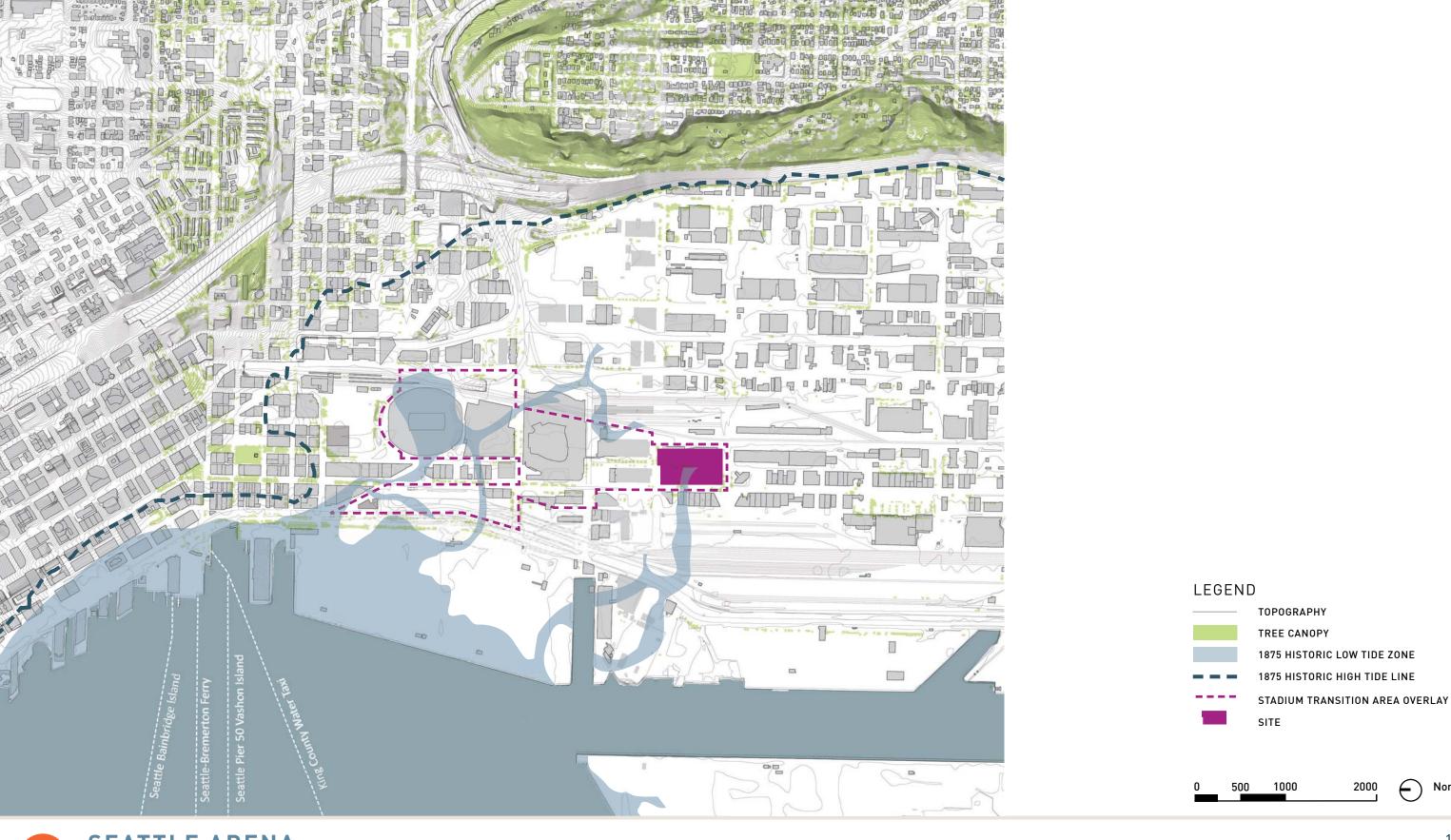












THE FORM: LANDFORM + WATER + TREE CANOPY

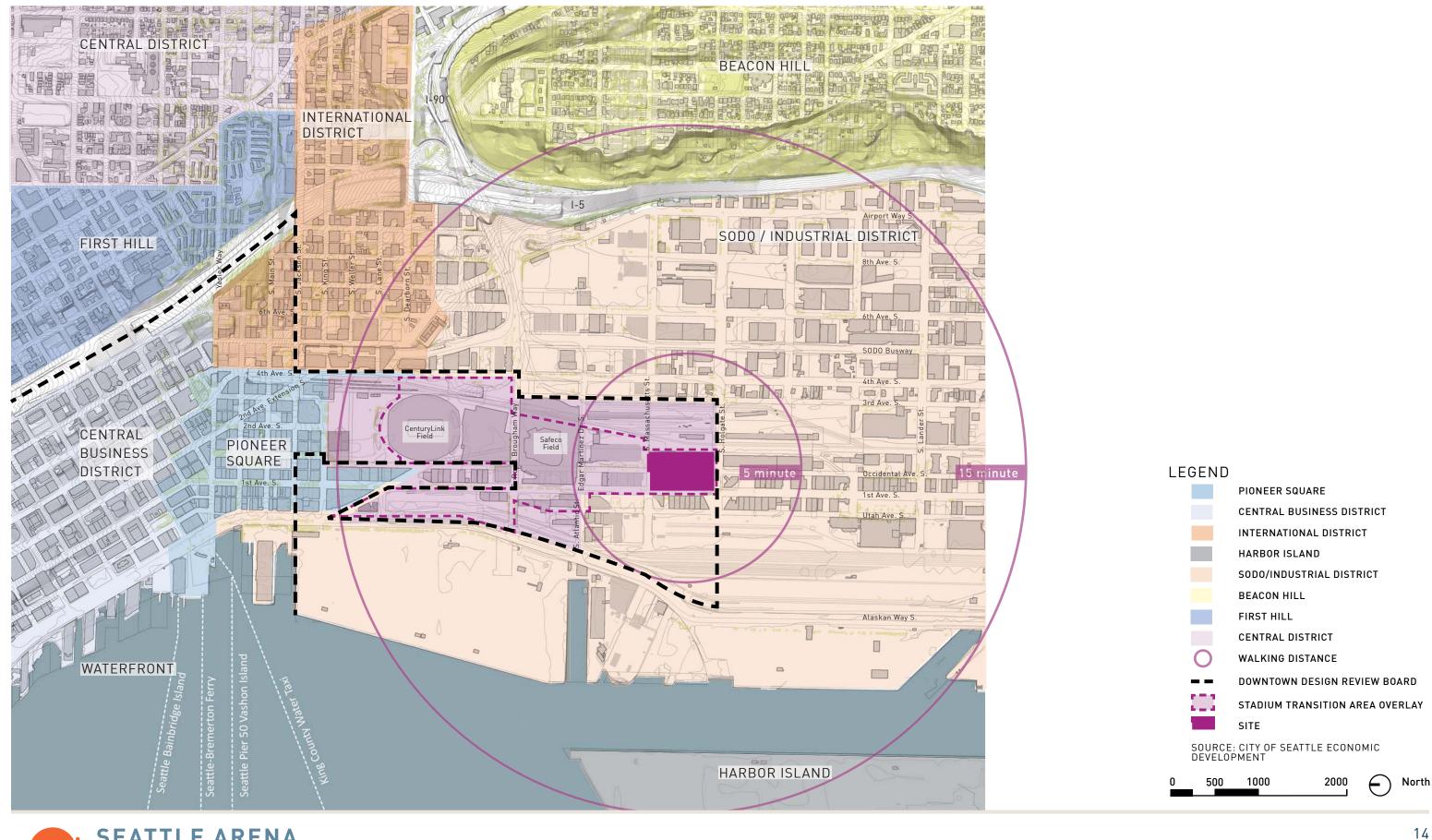
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North



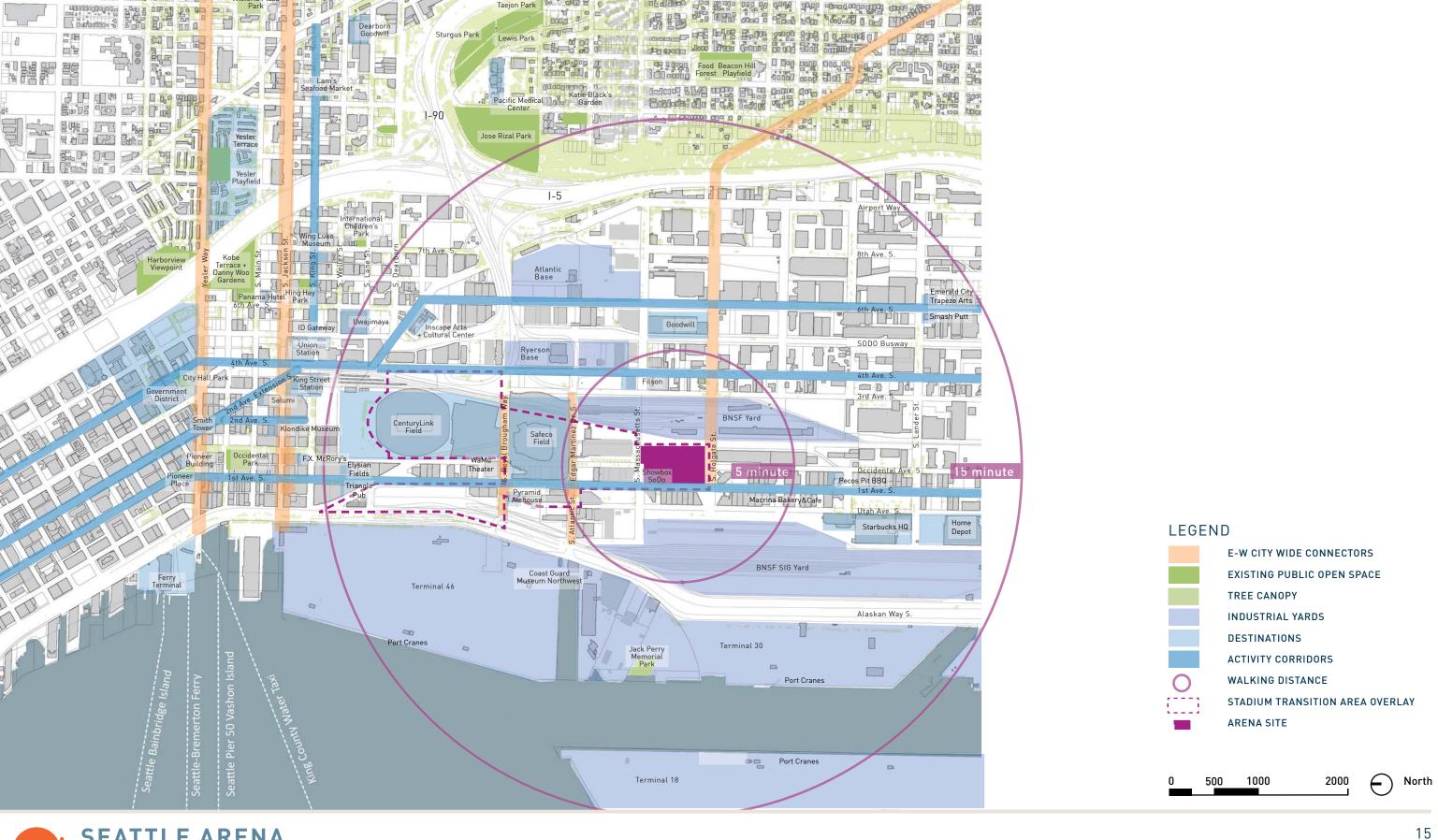
THE FORM: LARGE GRAIN |BIG FORM







CITY LIFE: NEIGHBORHOODS





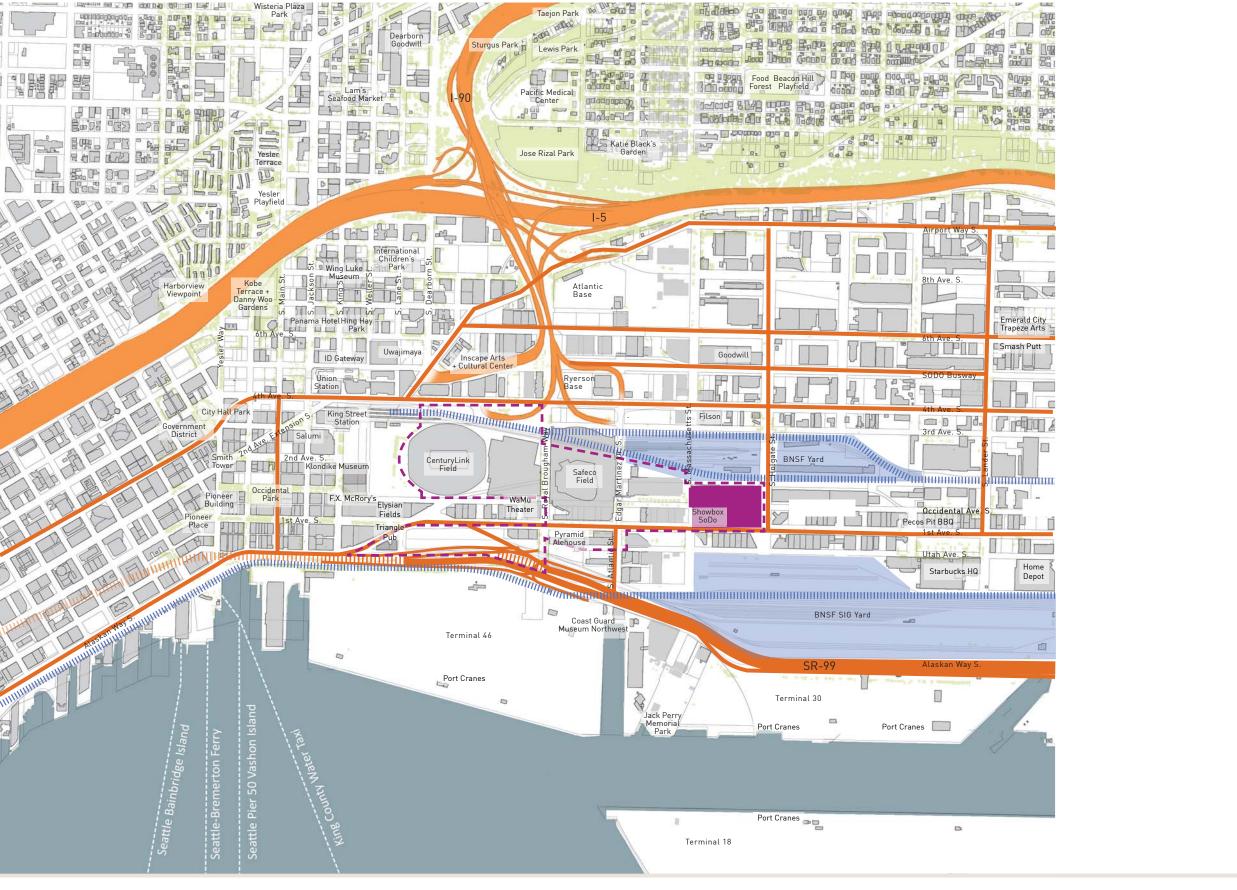
CITY LIFE: ICONS + CITY LIFE

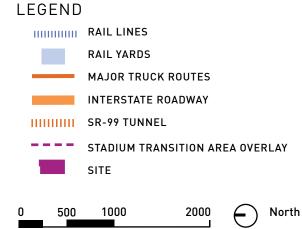




CITY LIFE: COMMUNITY ACTIVITIES + VITALITY









TRANSPORTATION: RAIL AND FREIGHT





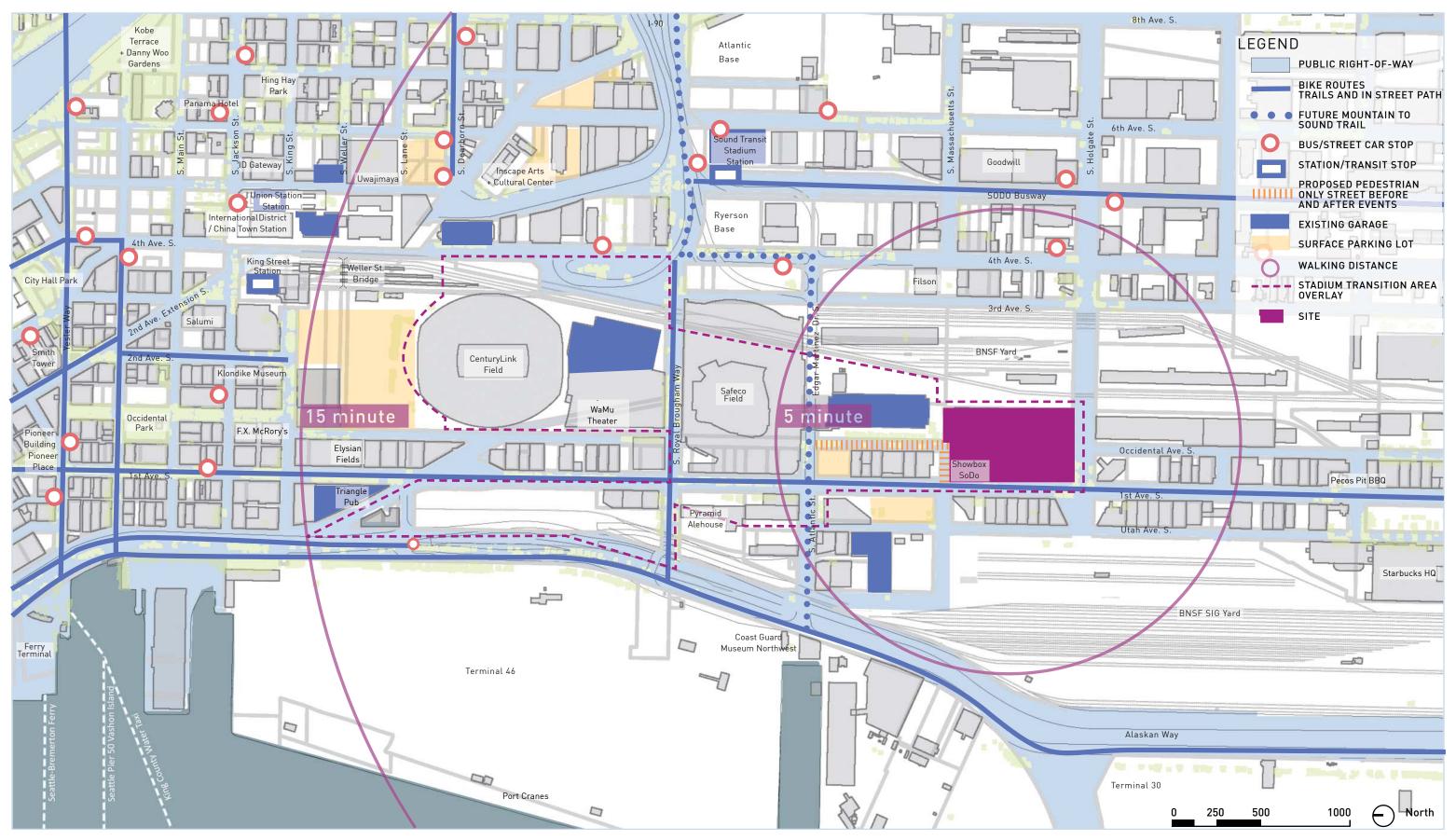
TRANSPORTATION: TRANSIT RAIL, STREETCAR, AND BUS





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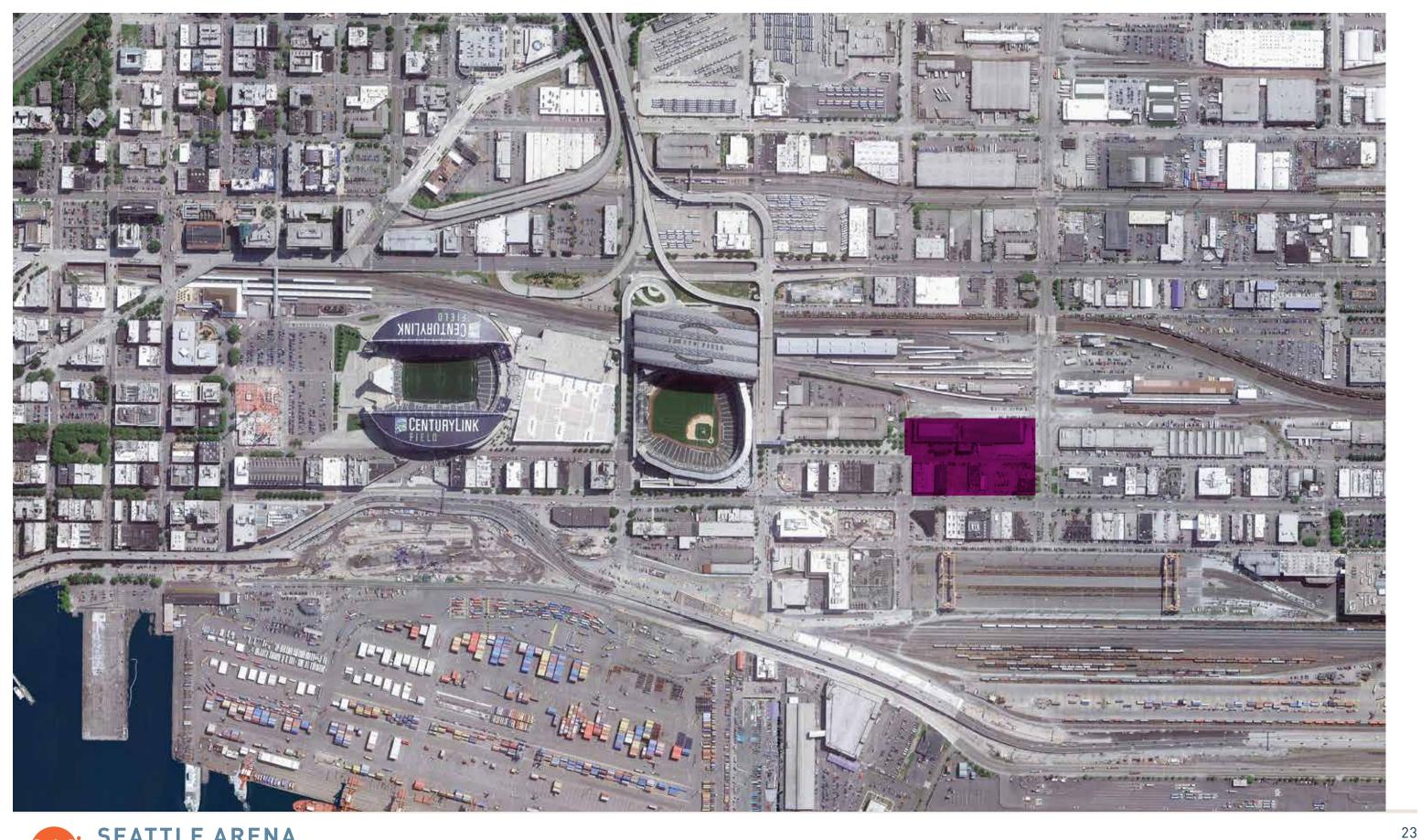
TRANSPORTATION: VEHICLES





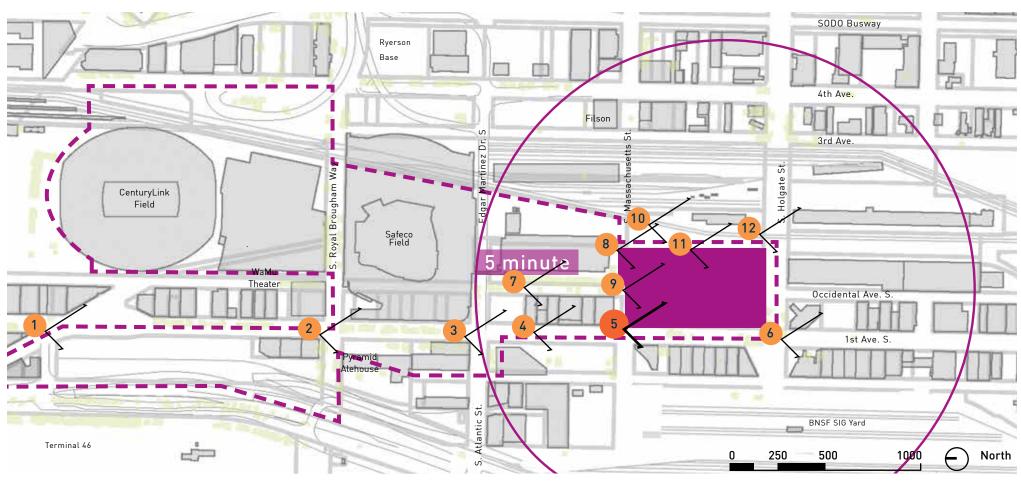
TRANSPORTATION: PEDESTRIAN + BICYCLE







NEIGHBORHOOD: AERIAL PHOTO (2012)











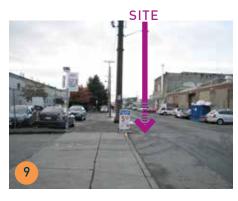










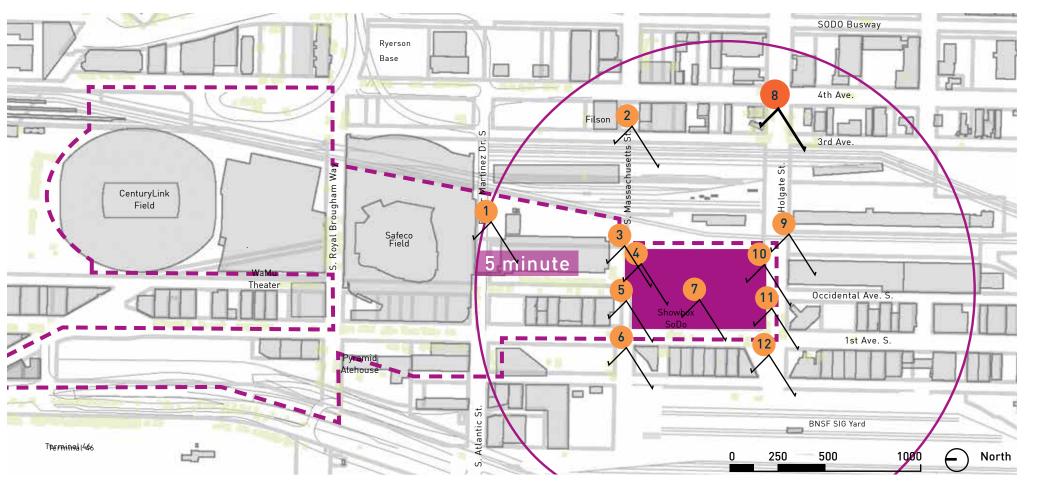


























SITE







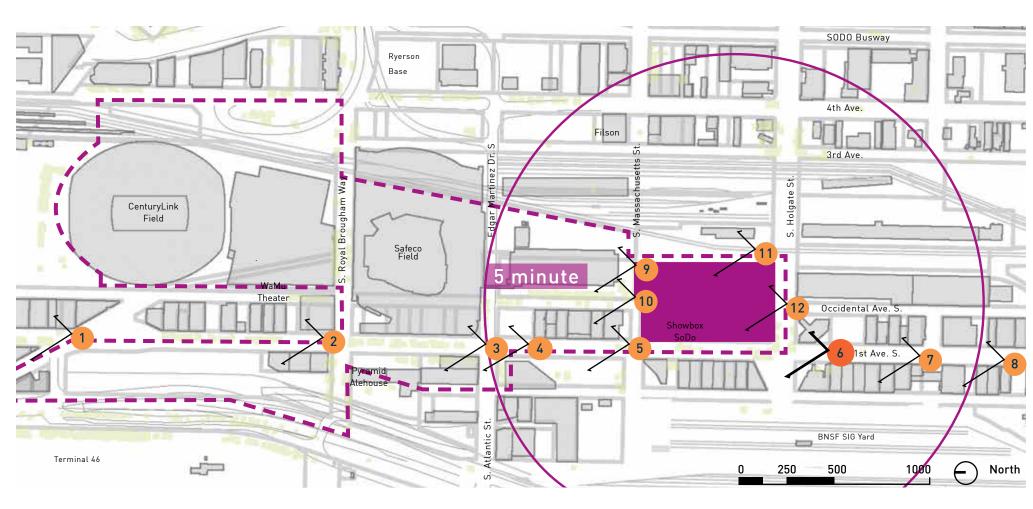








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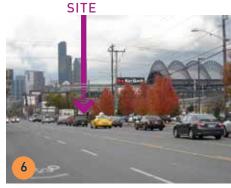




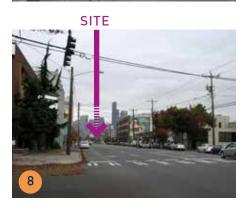












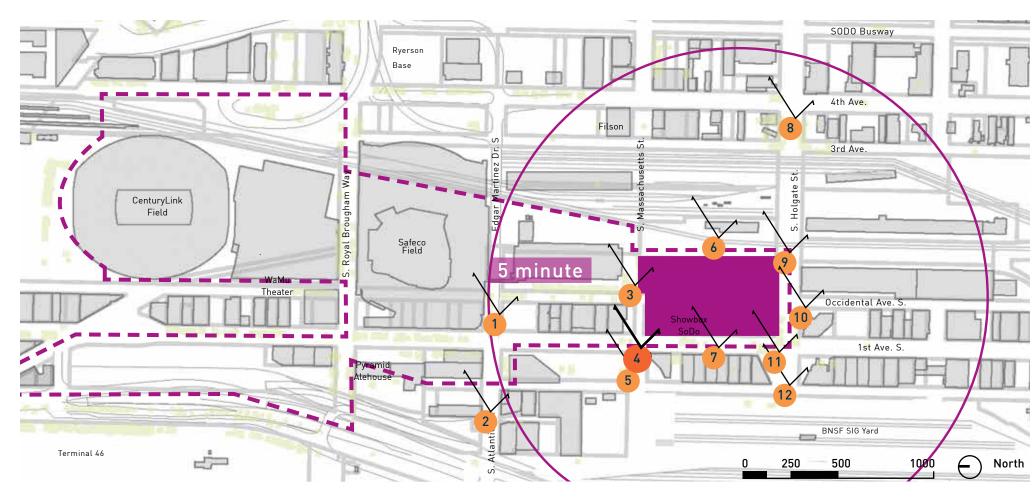




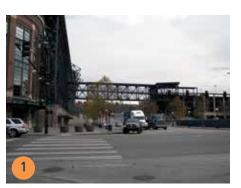
















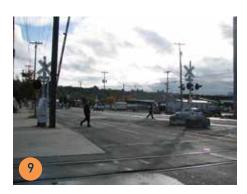






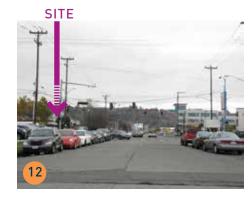






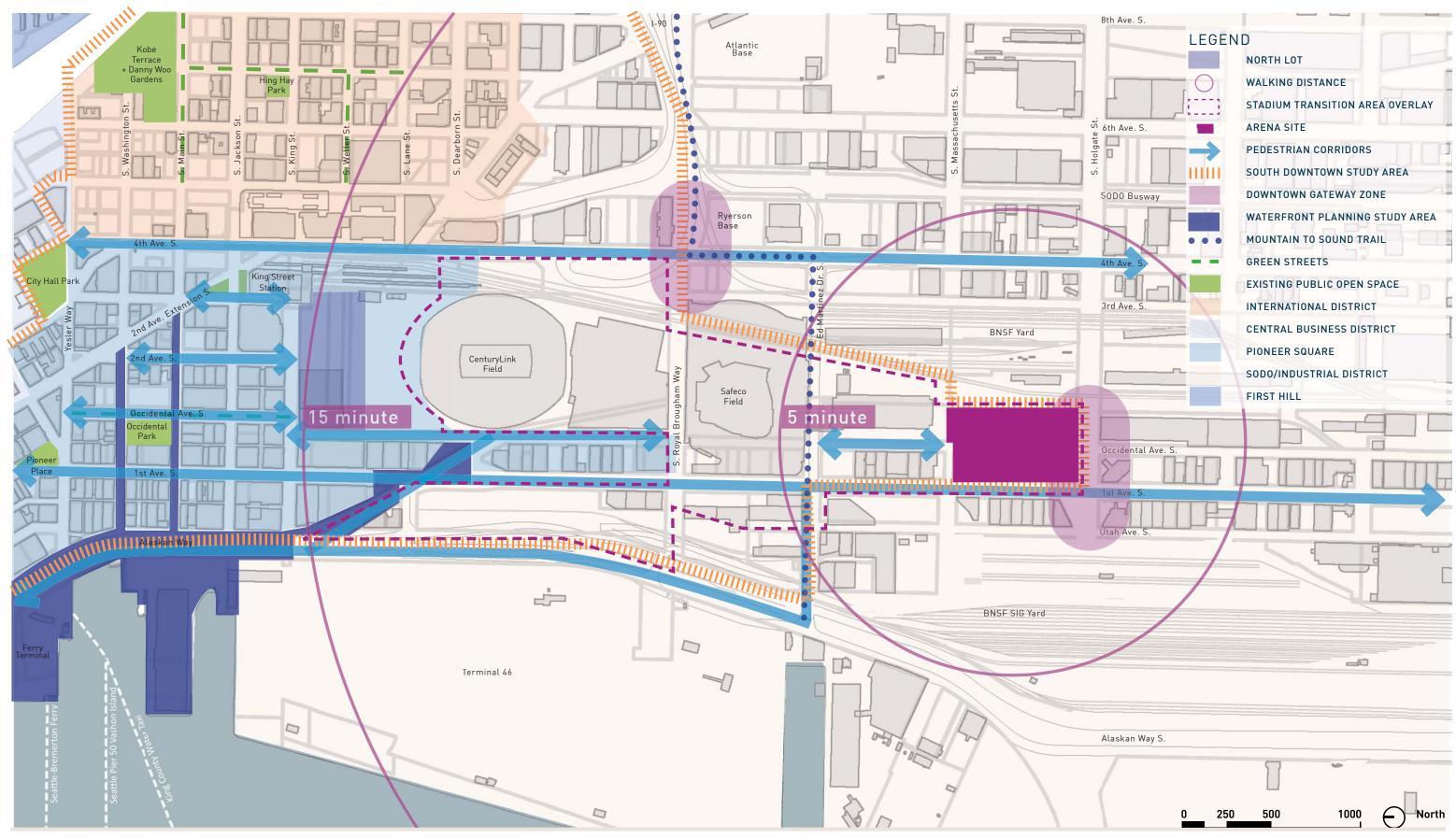






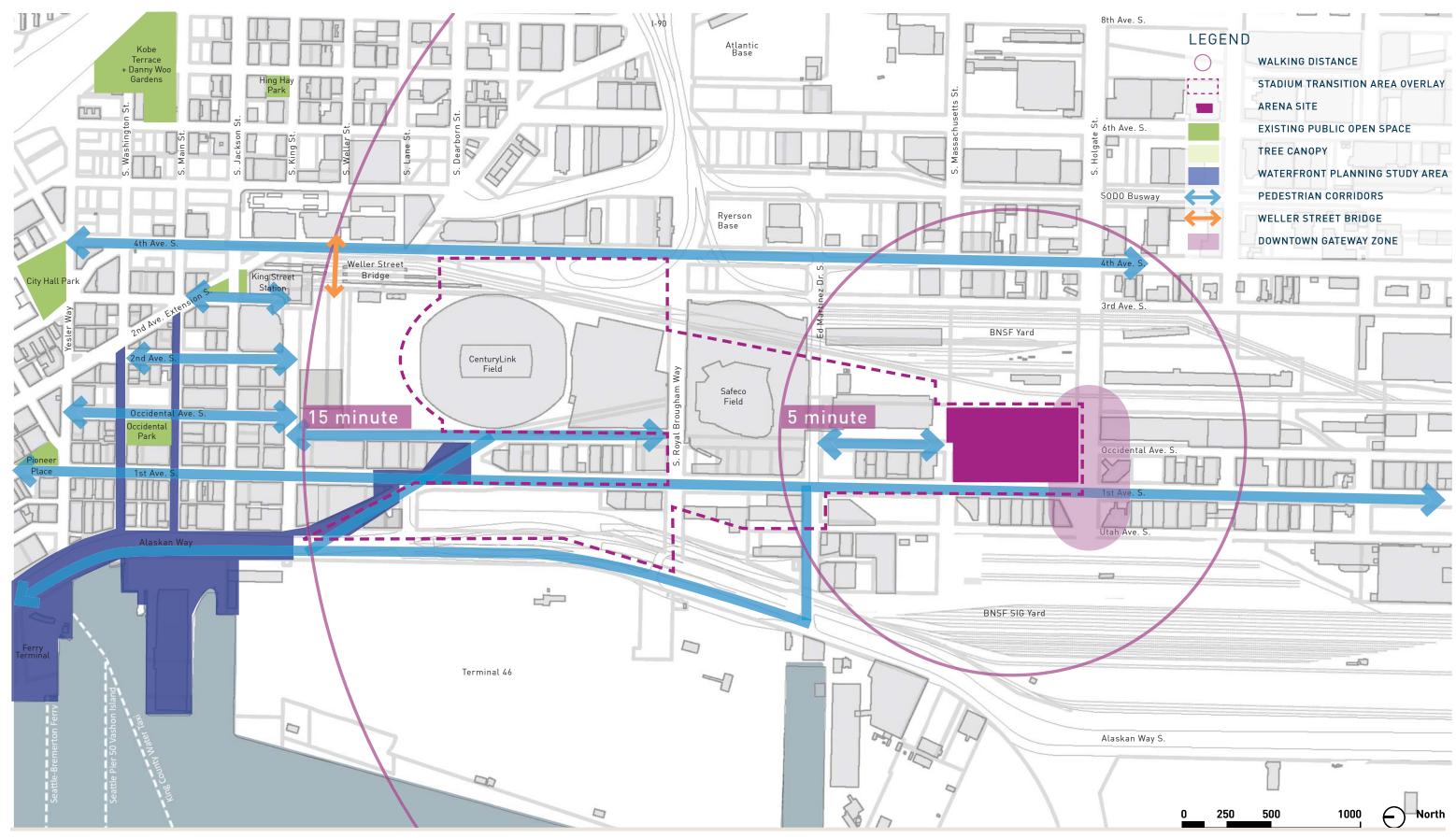


CONTEXT: STREET VIEWS FROM WEST LOOKING EAST





NEIGHBORHOOD: PLANNING INITIATIVES



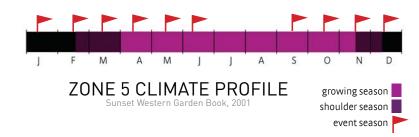


NEIGHBORHOOD: PUBLIC SPACES



## **RESPONSE TO CLIMATE**

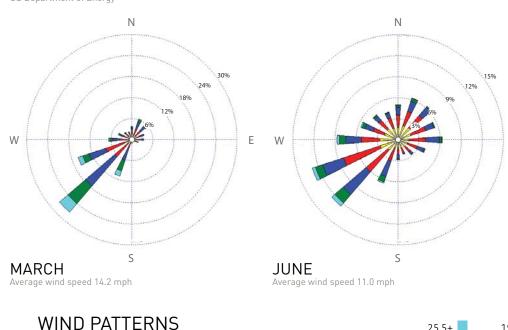
urban design analysis

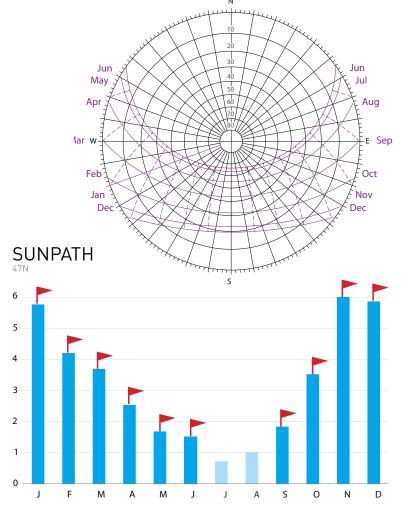




### **AVERAGE HUMIDITY**

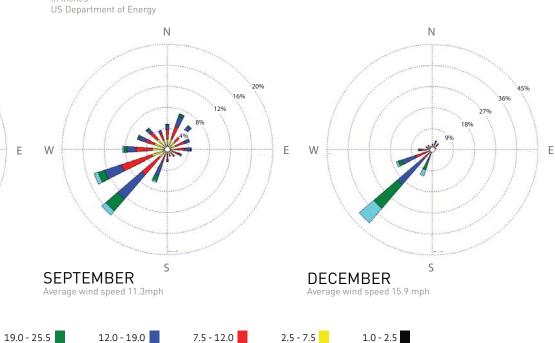
In percent US Department of Energy

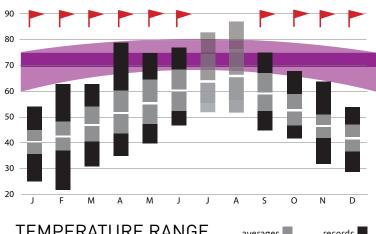




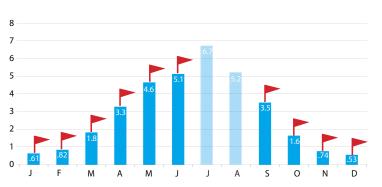
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25.5+



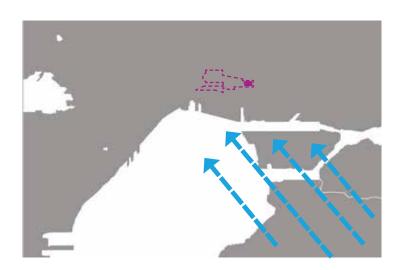






### **EVAPOTRANSPIRATION**

Western Regional Climate Center

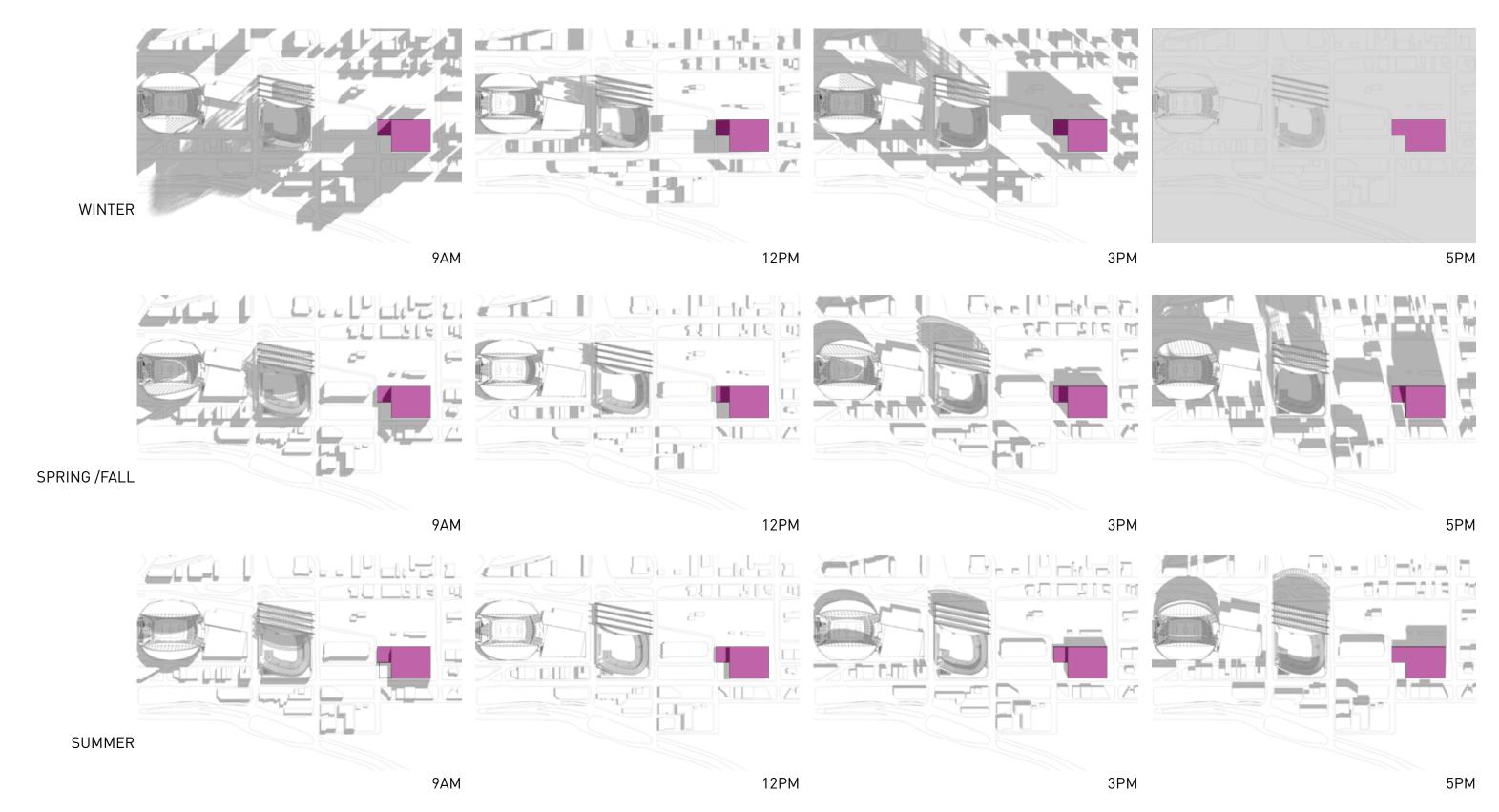


**COASTAL WEATHER PATTERNS** 

USDA Natural Resource and Conservation Service

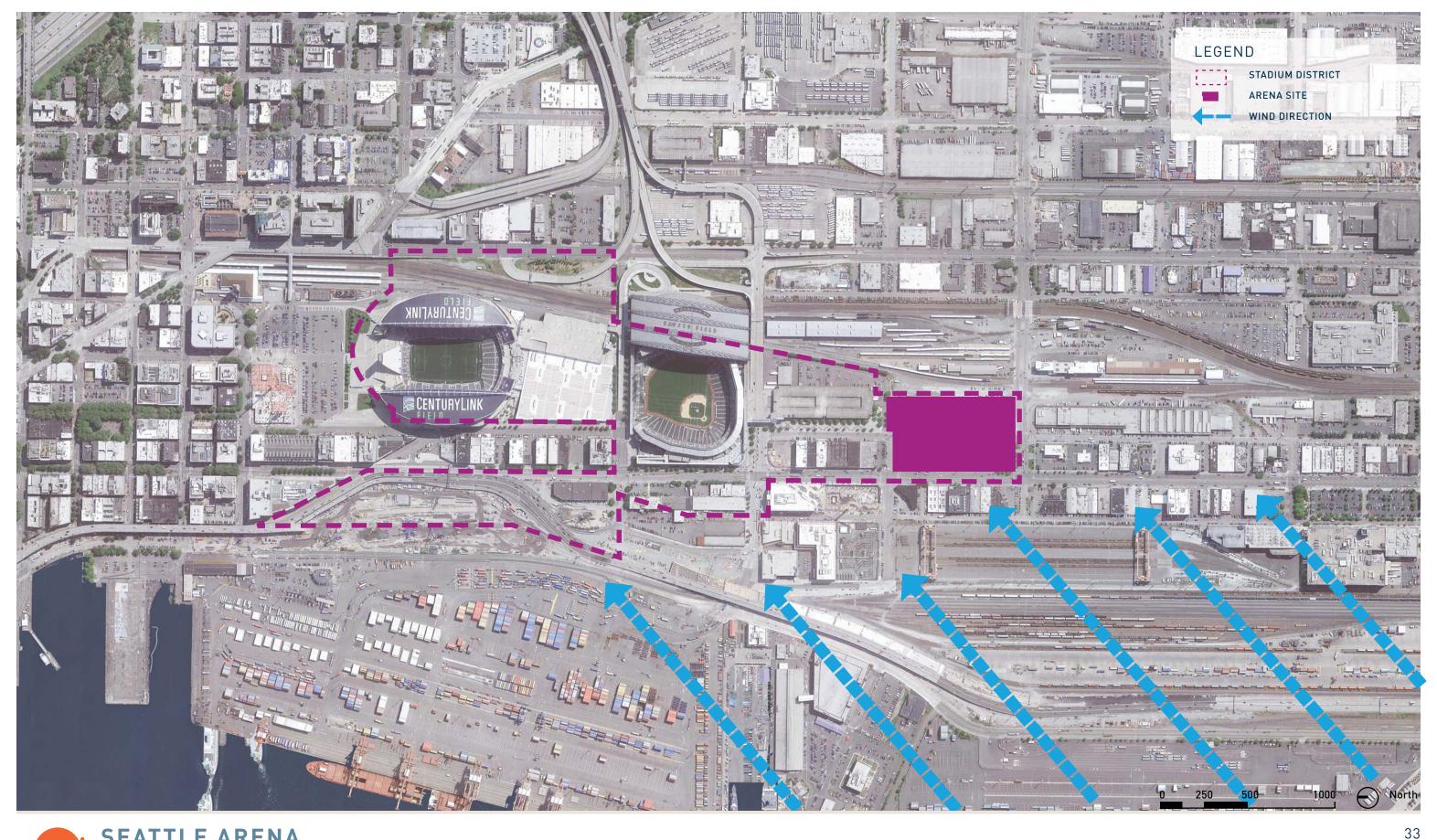


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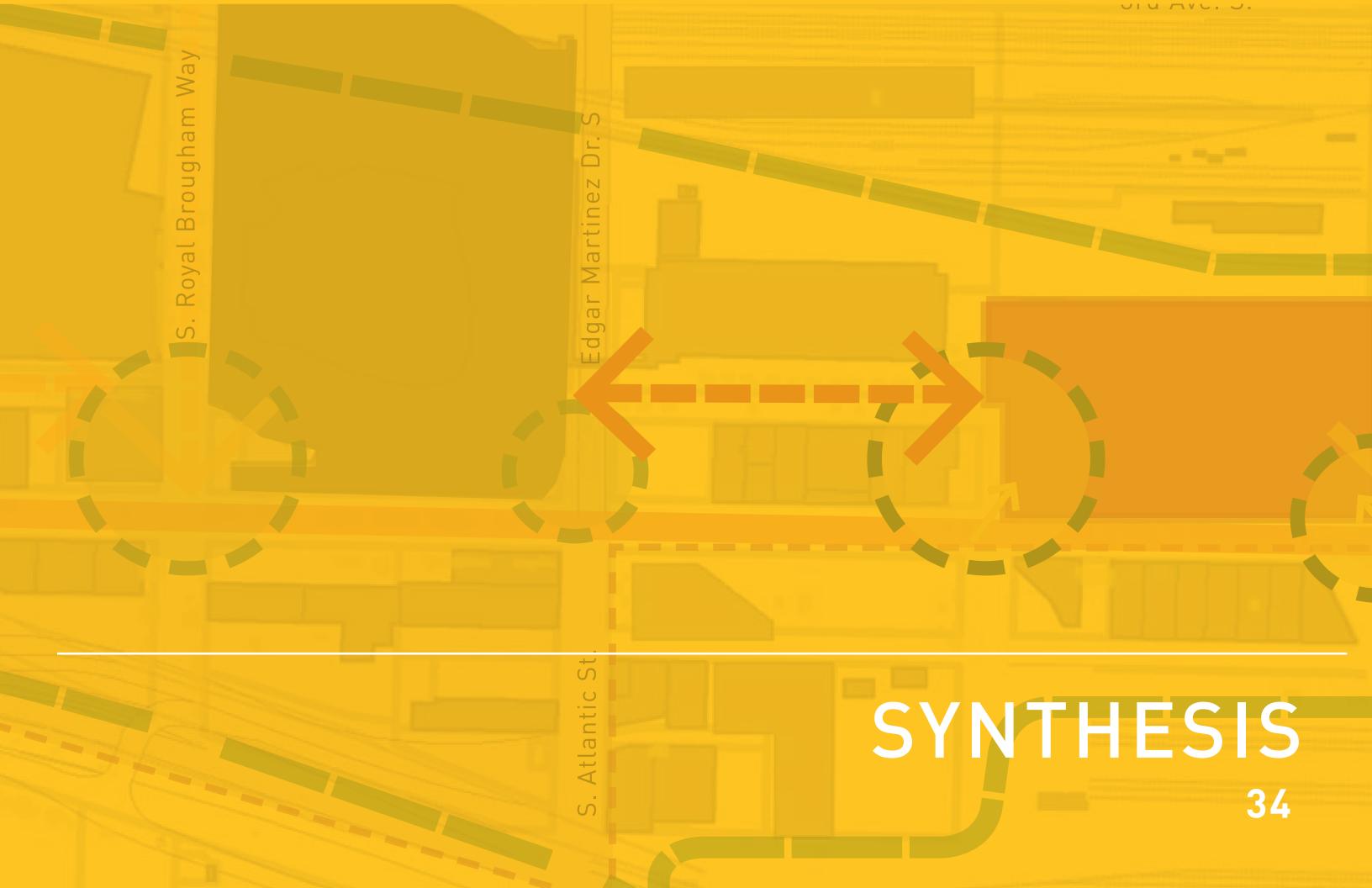


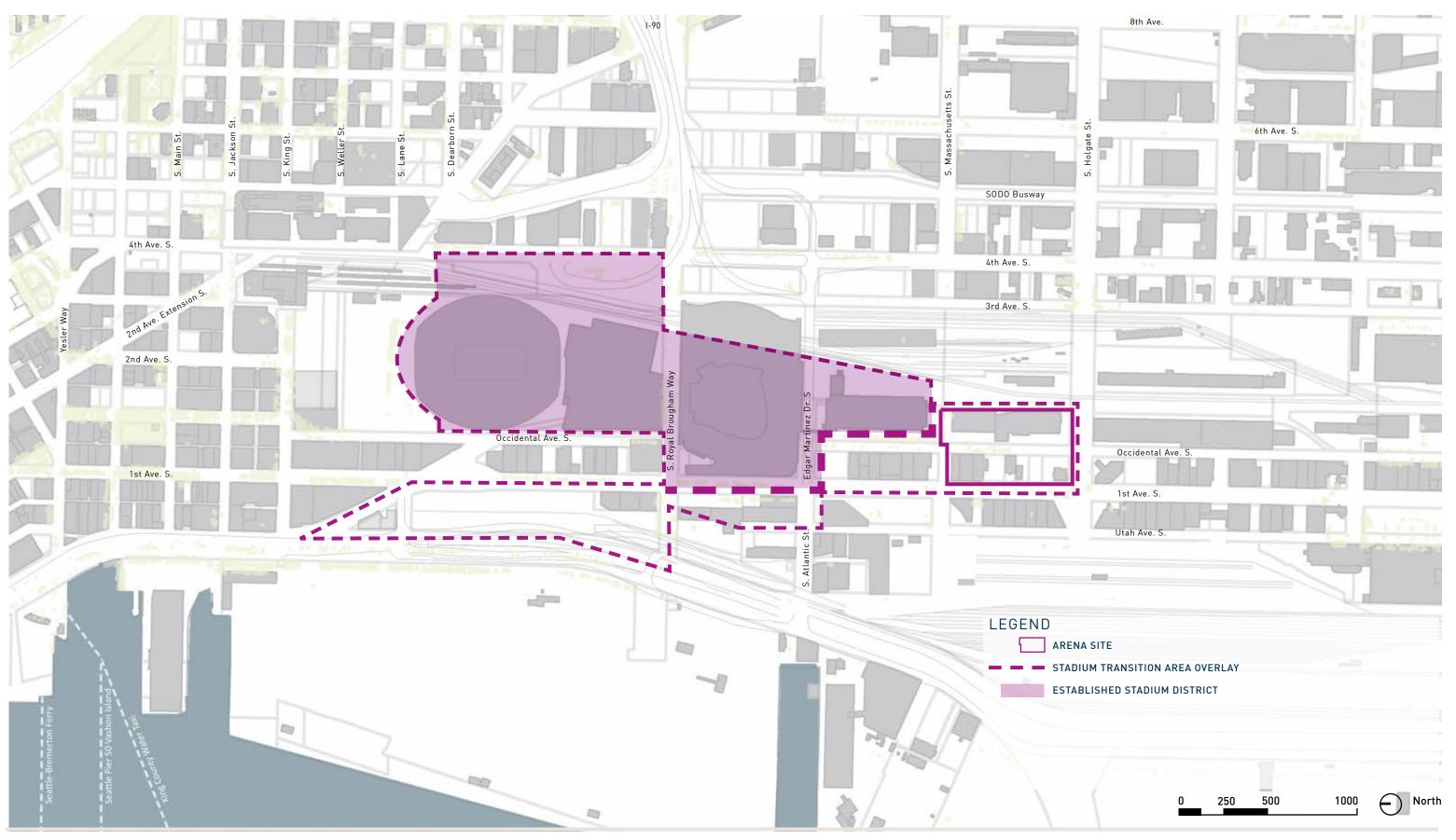






CLIMATE: WEATHER PATTERNS

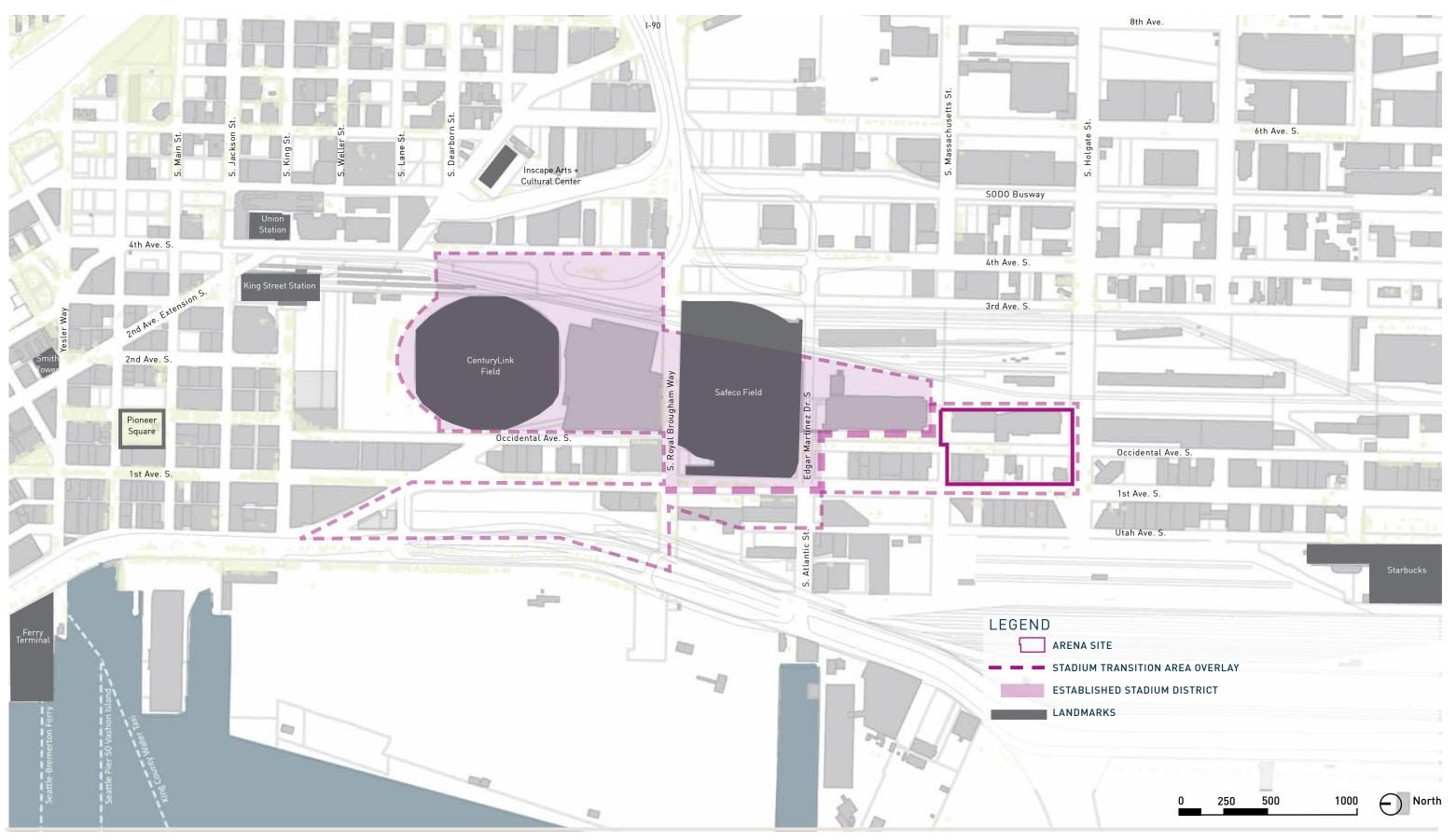






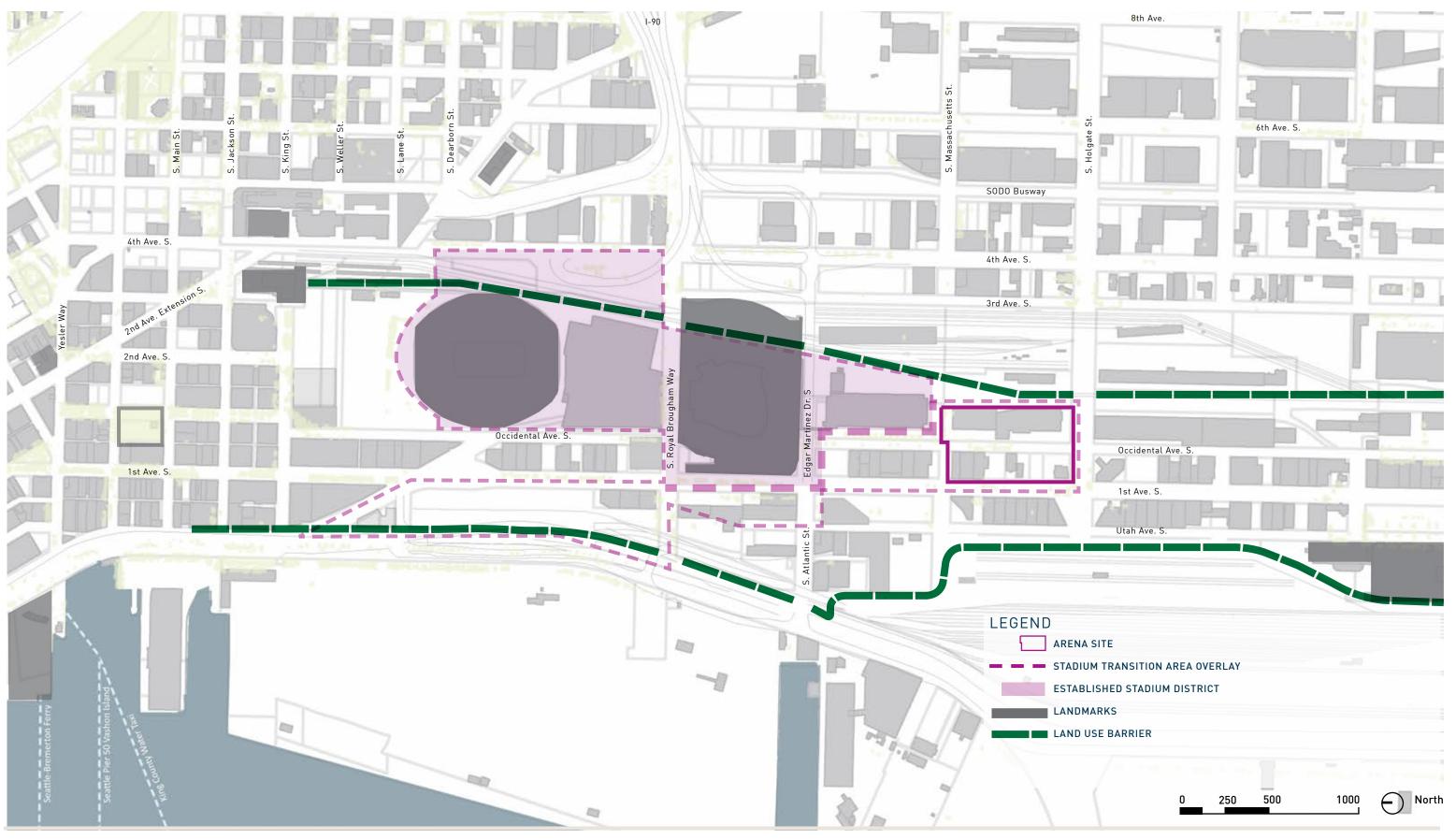
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SYNTHESIS: DISTRICT





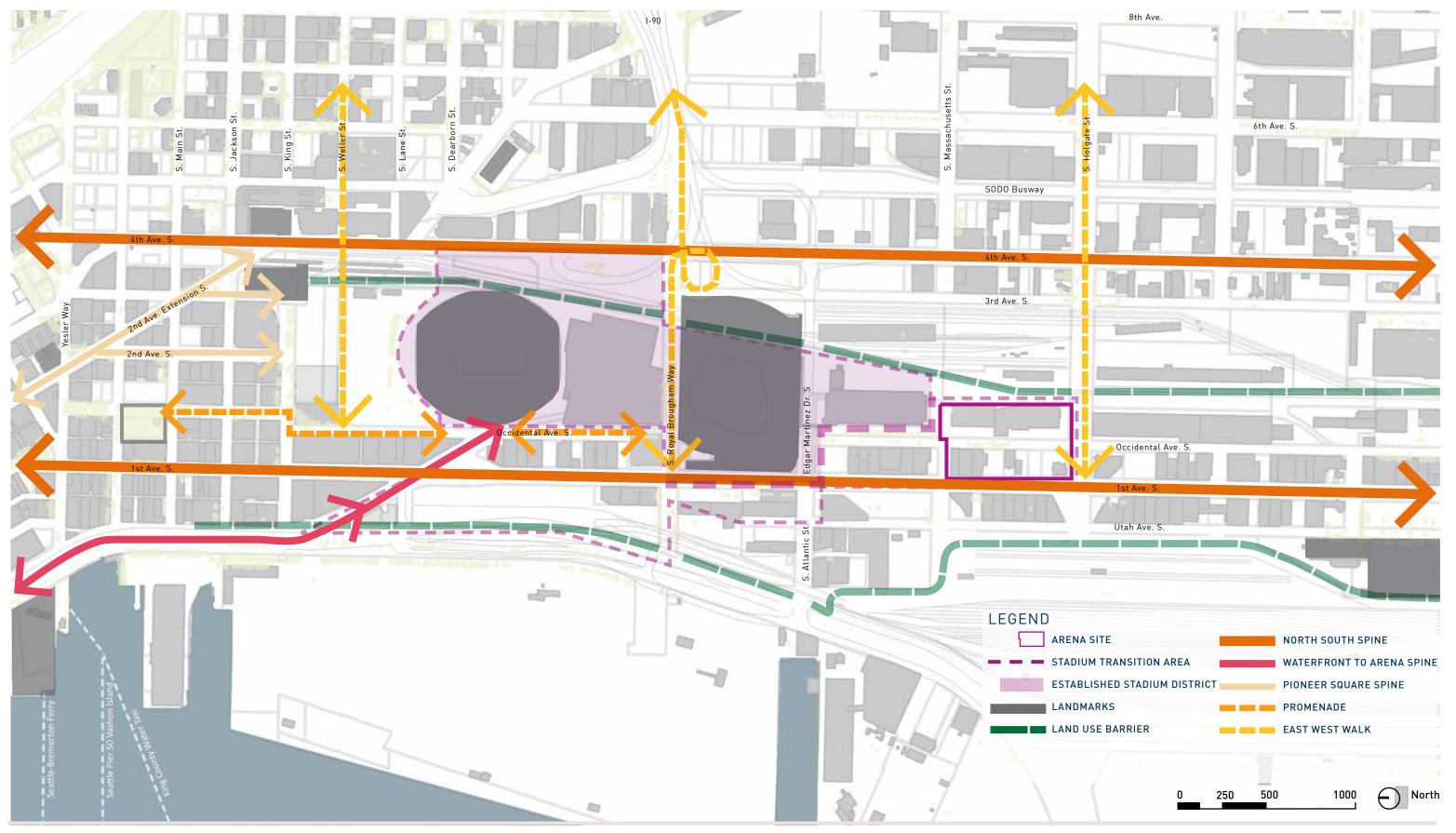
SYNTHESIS: LANDMARKS





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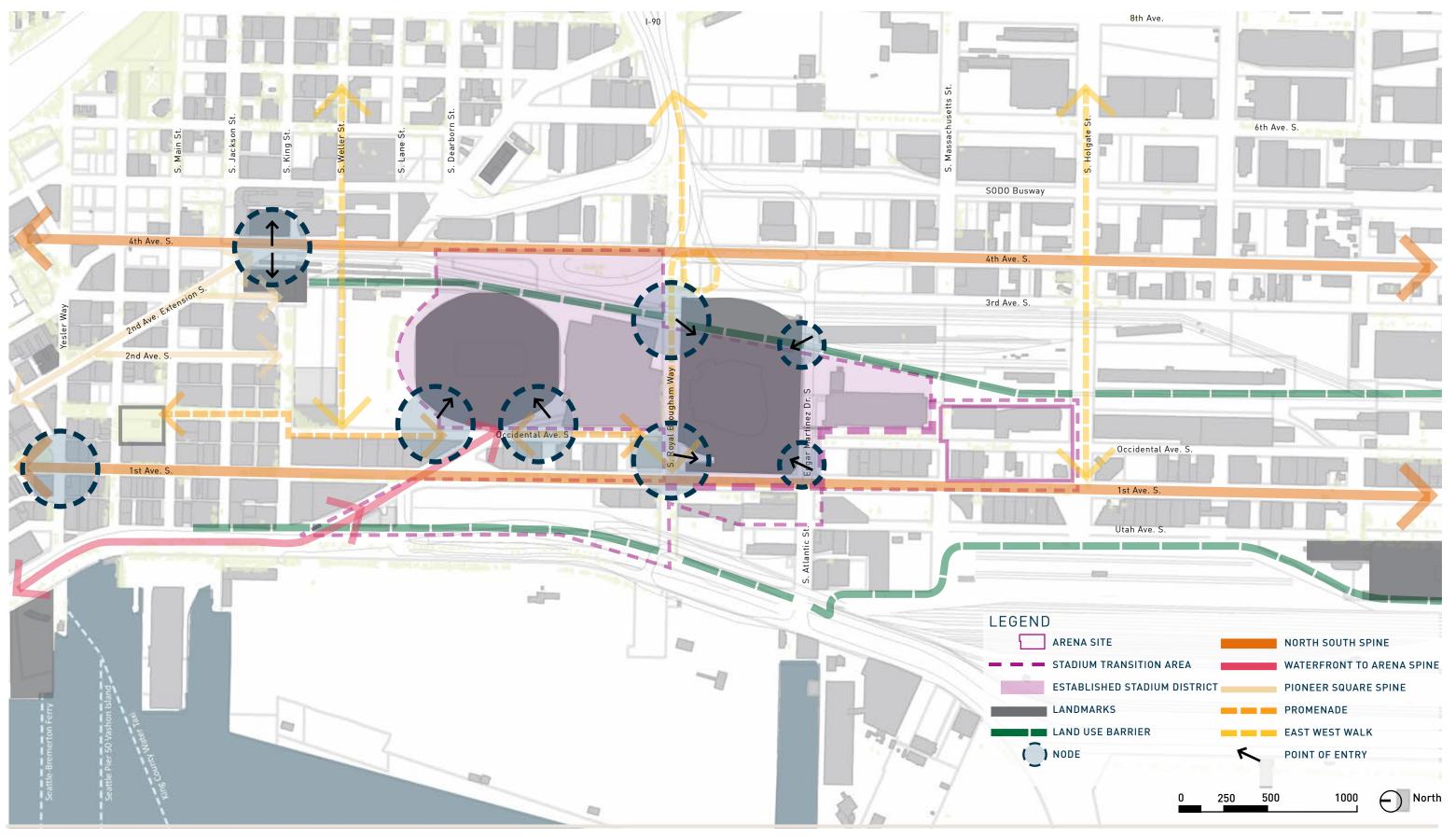
SYNTHESIS: EDGES





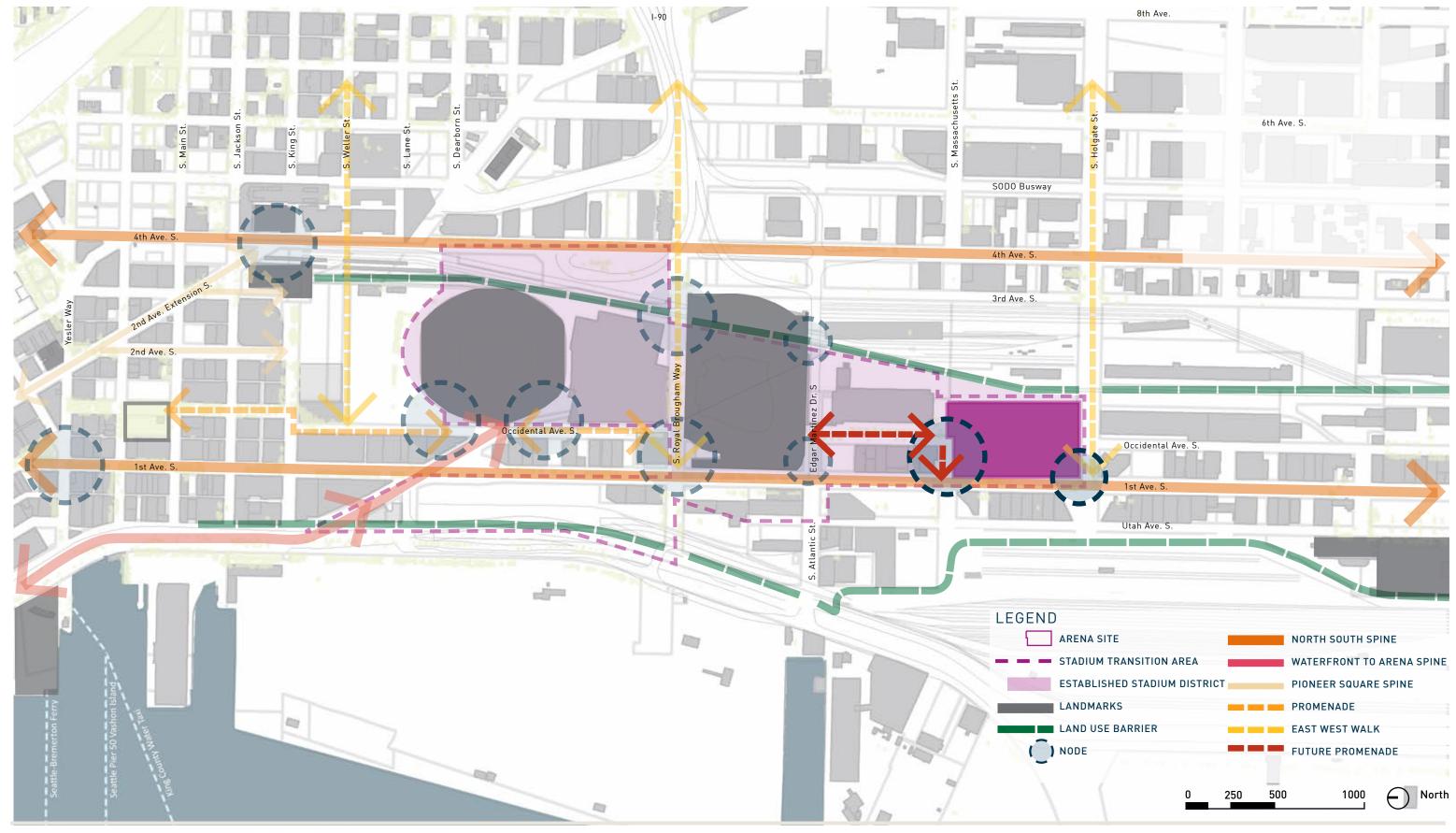
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SYNTHESIS: PATHS



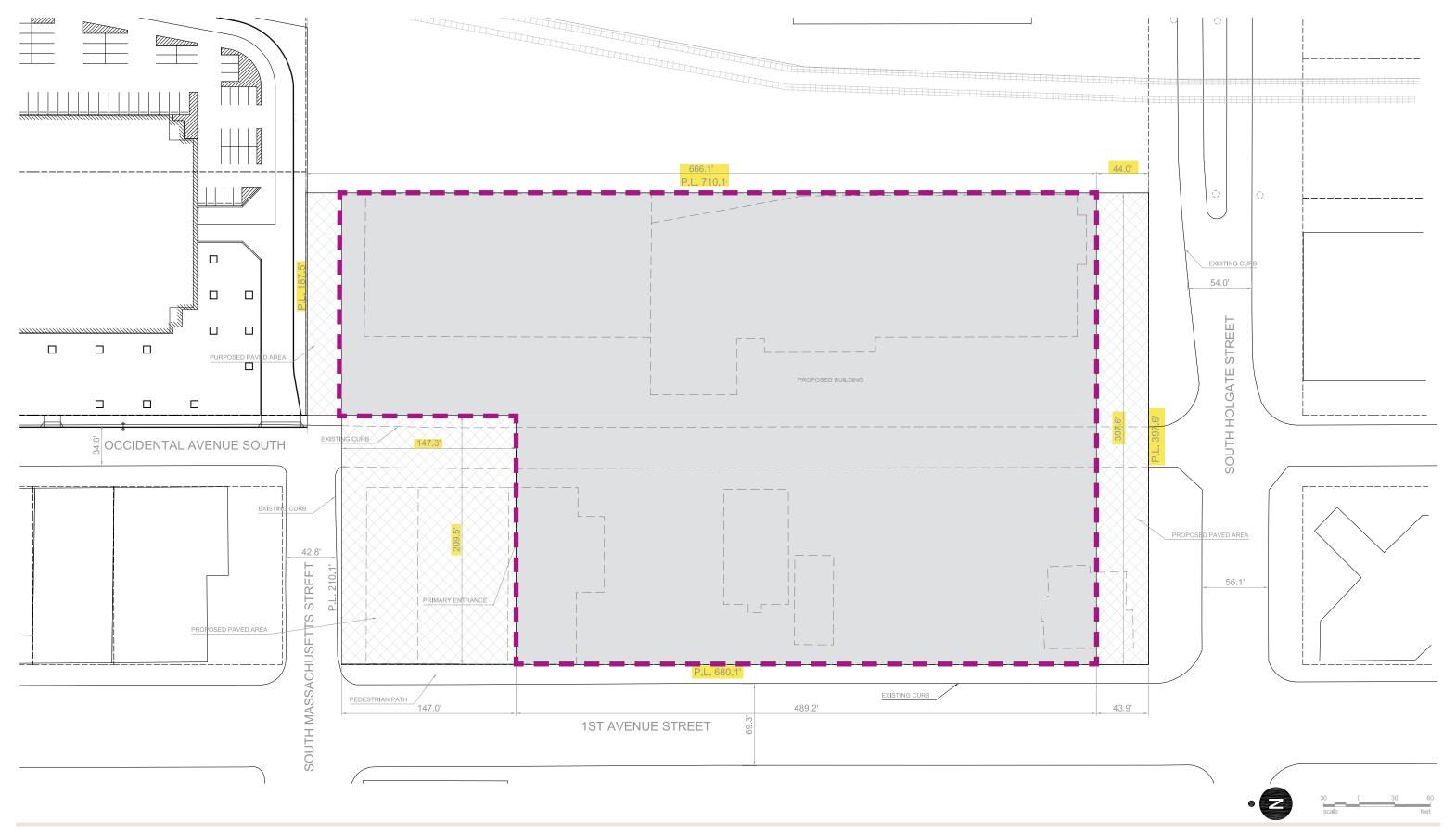


SYNTHESIS: NODES





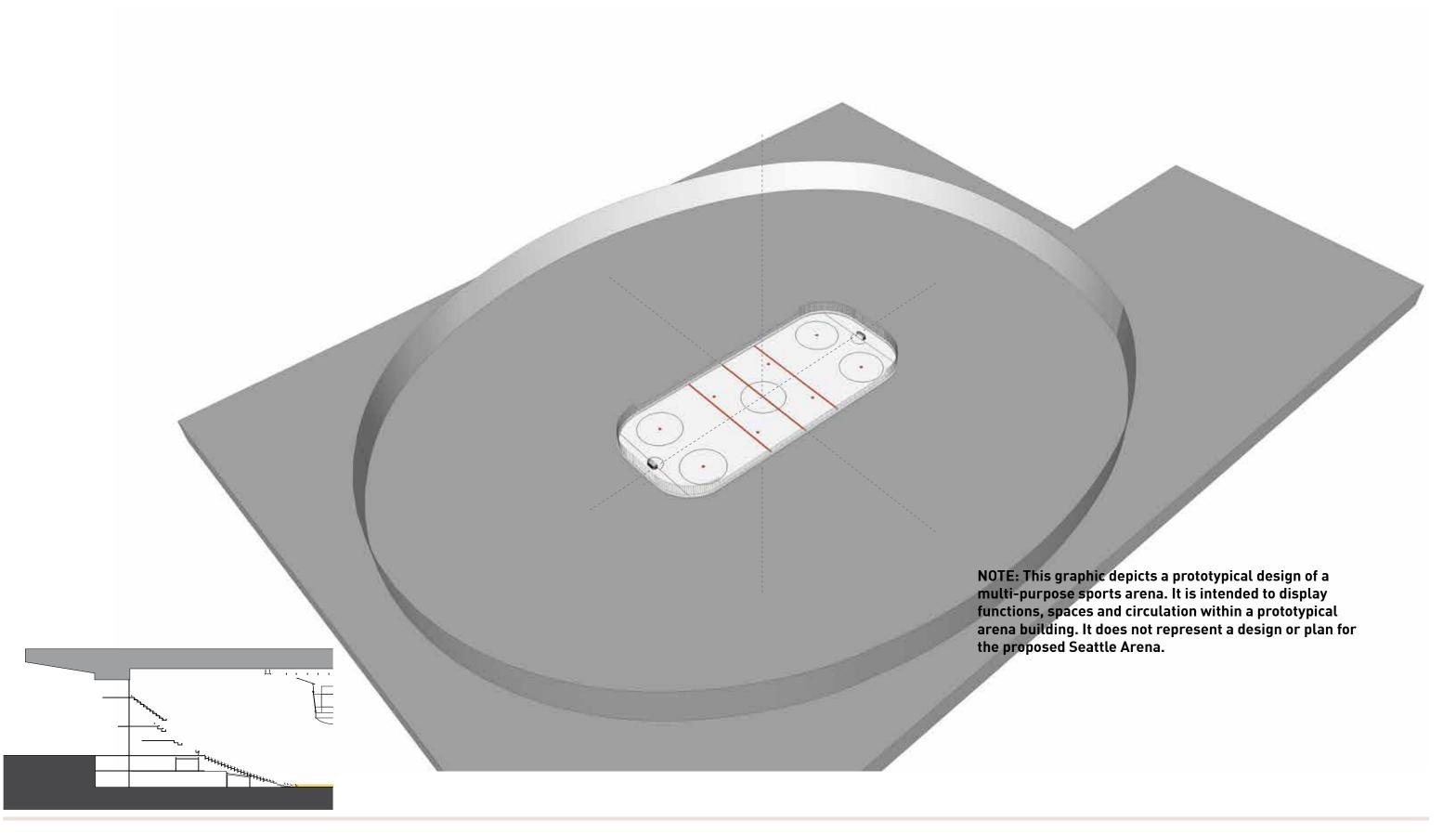
SYNTHESIS: FUTURE





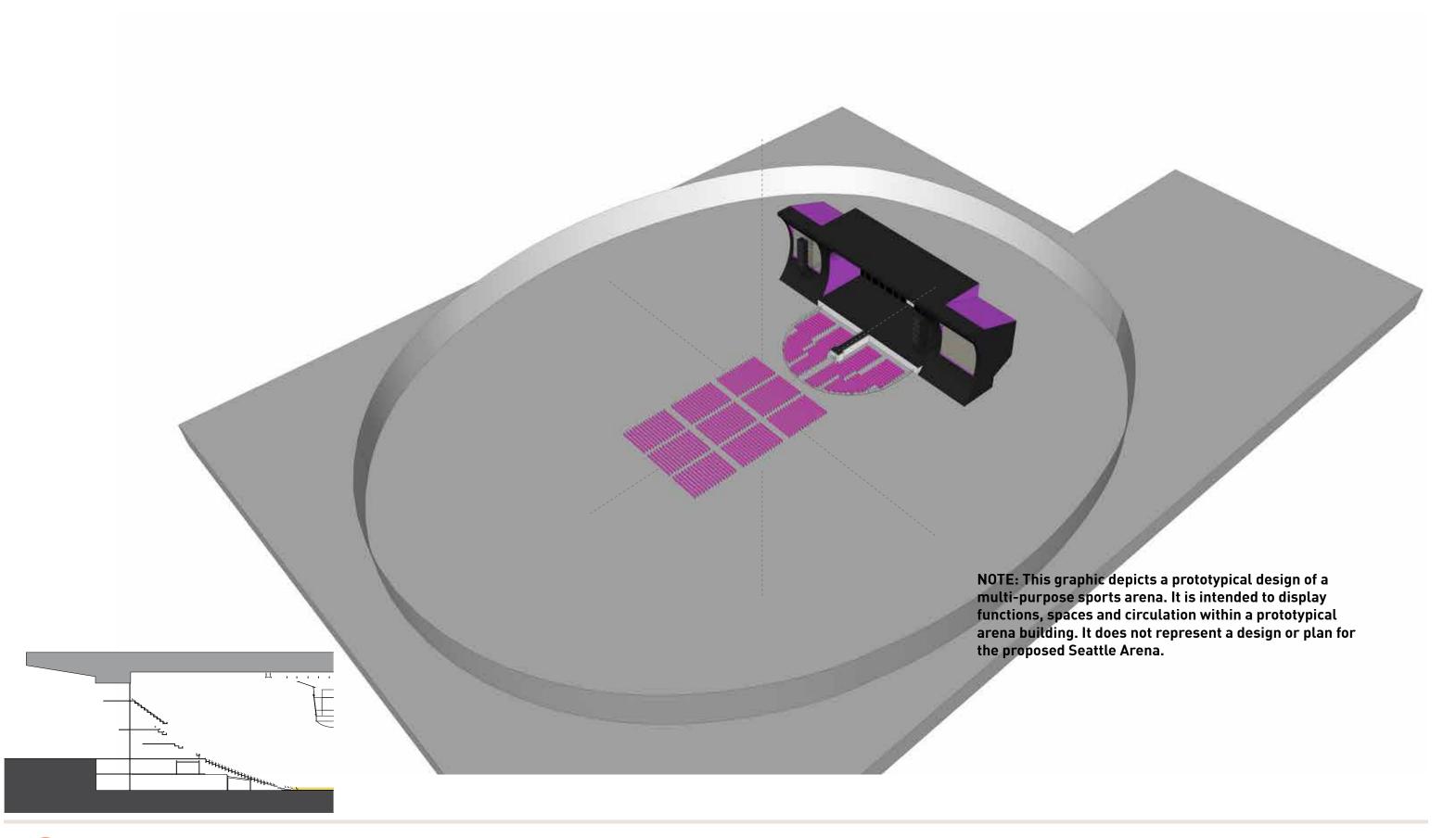
PRELIMINARY SITE PLAN





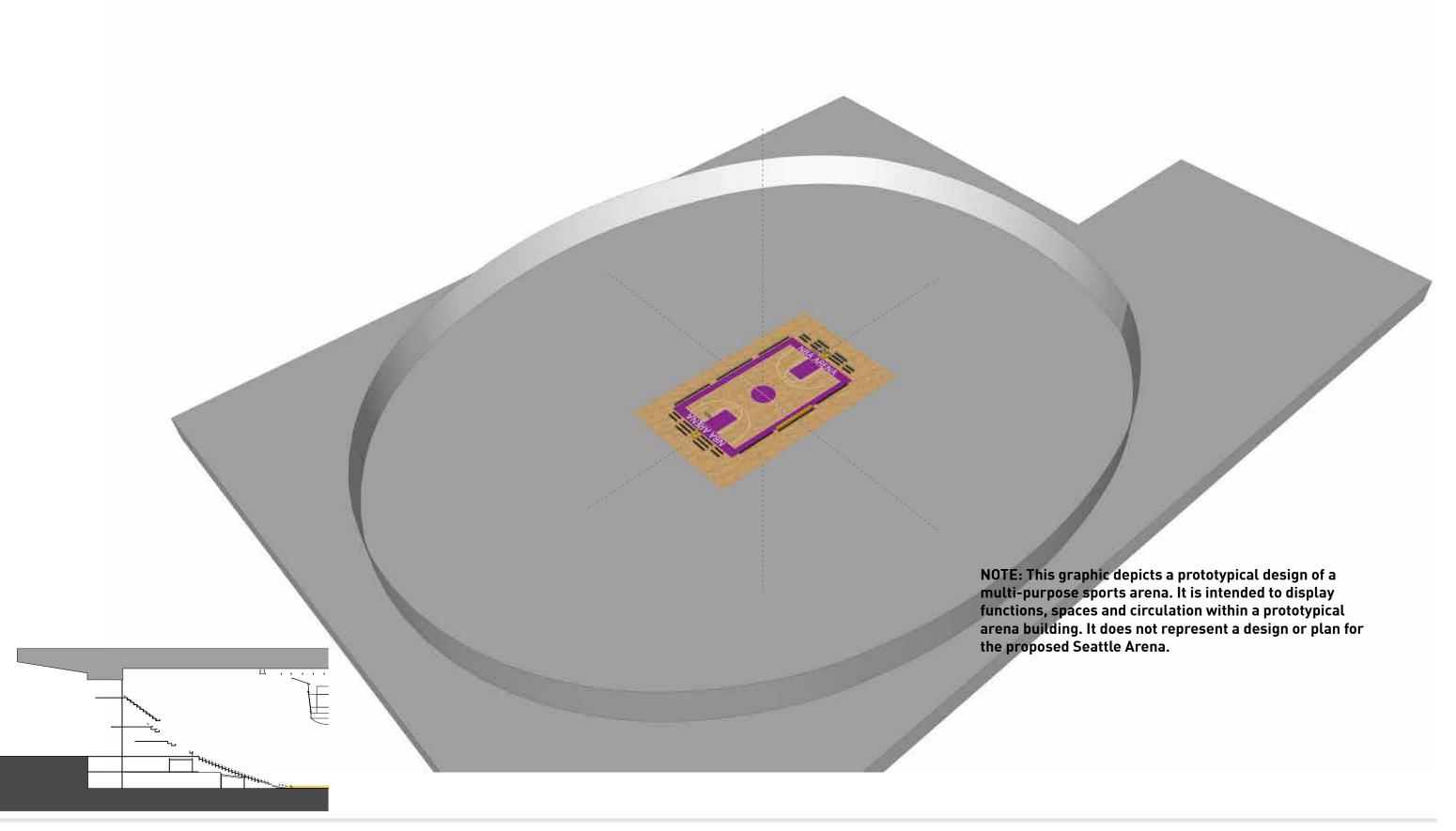


HOCKEY



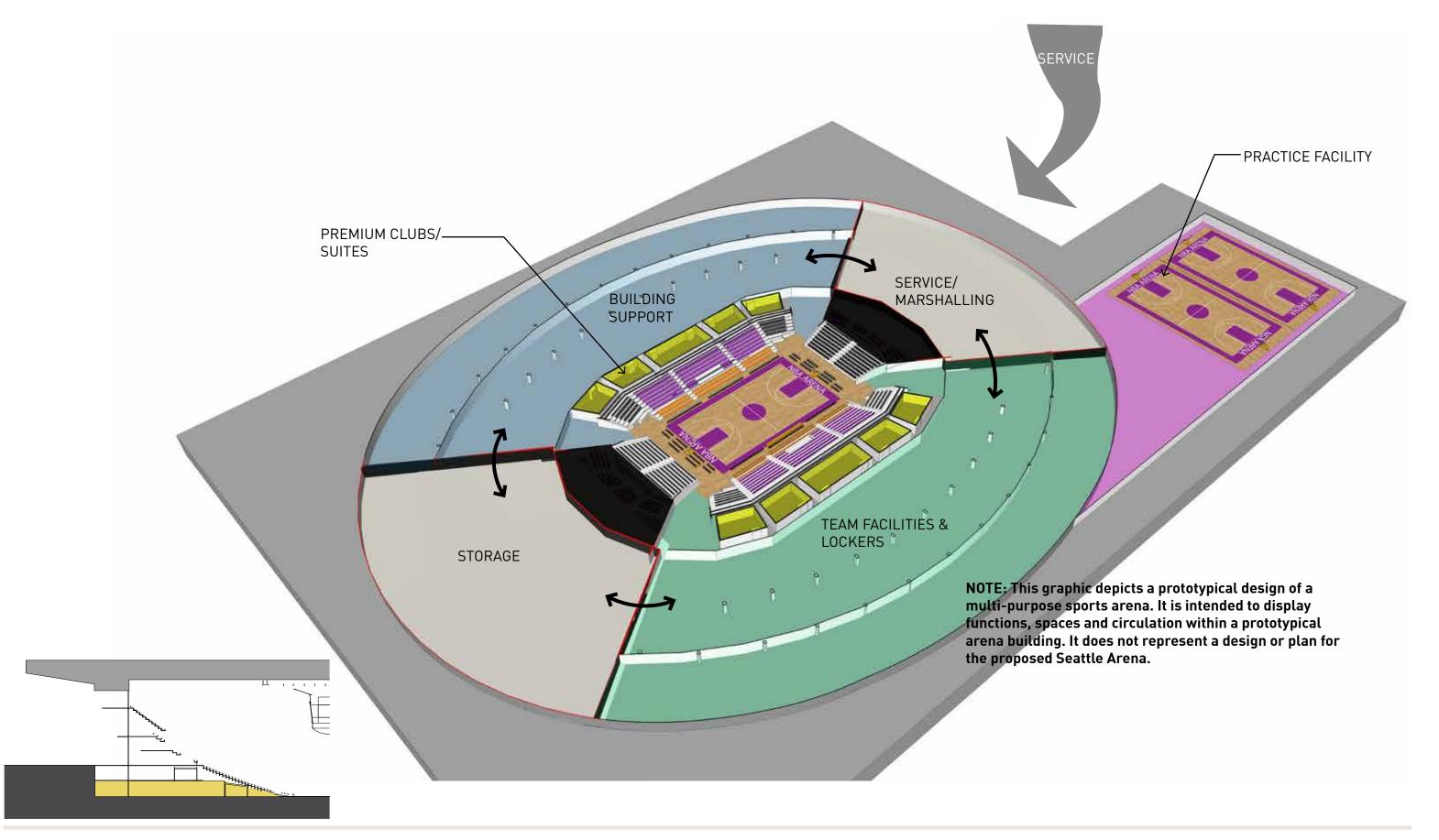


END STAGE



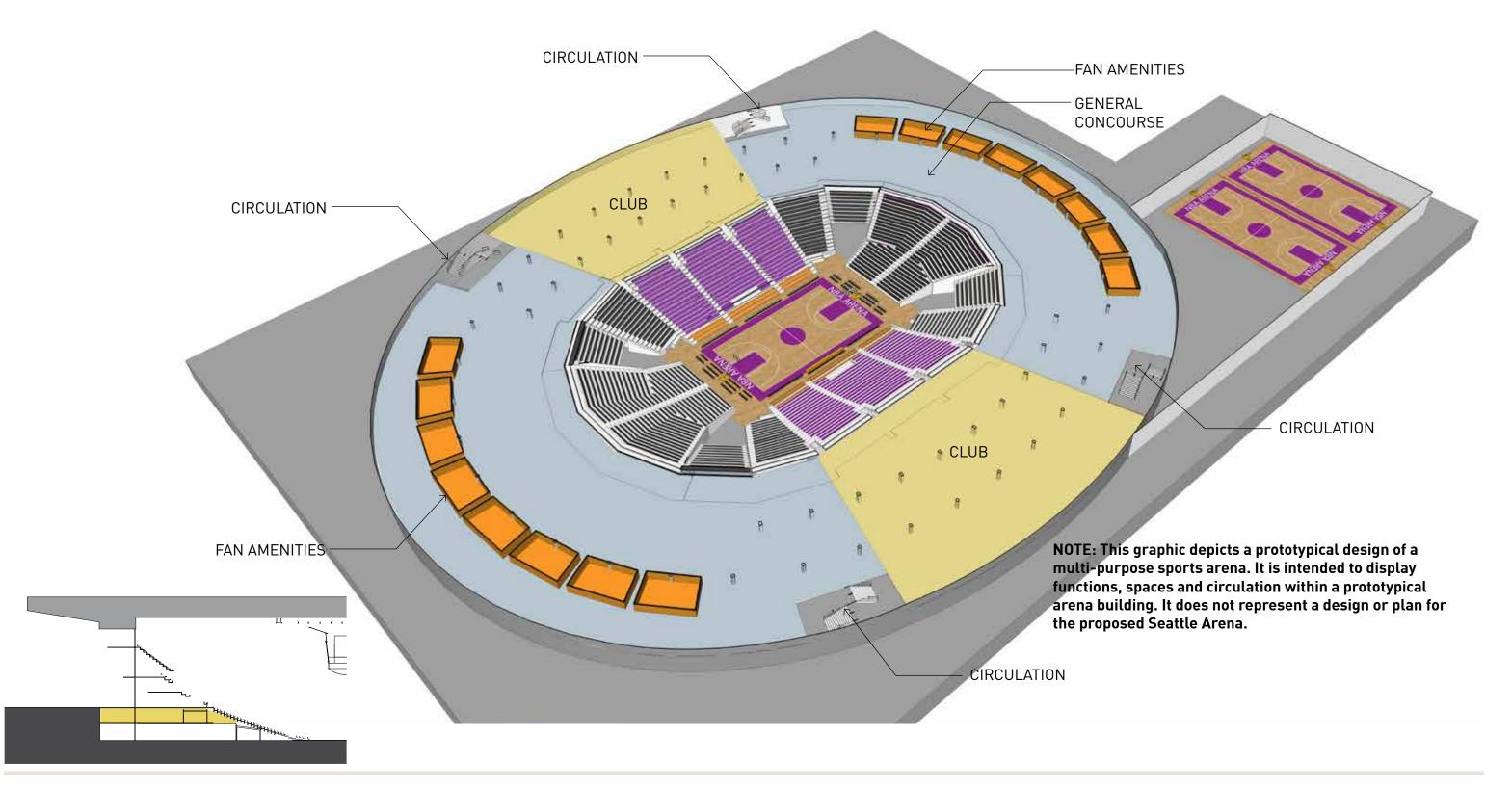


BASKETBALL



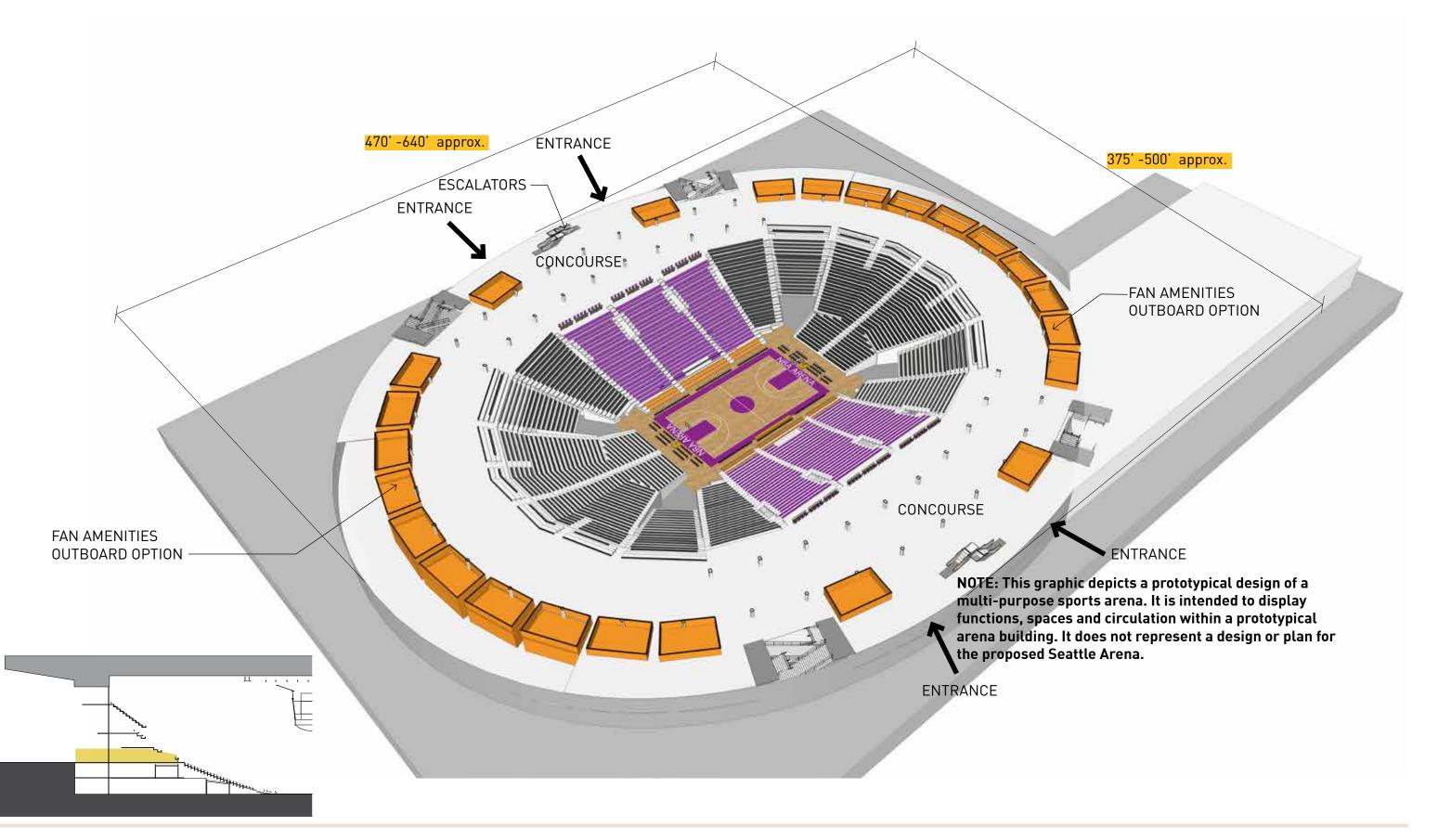


EVENT LEVEL



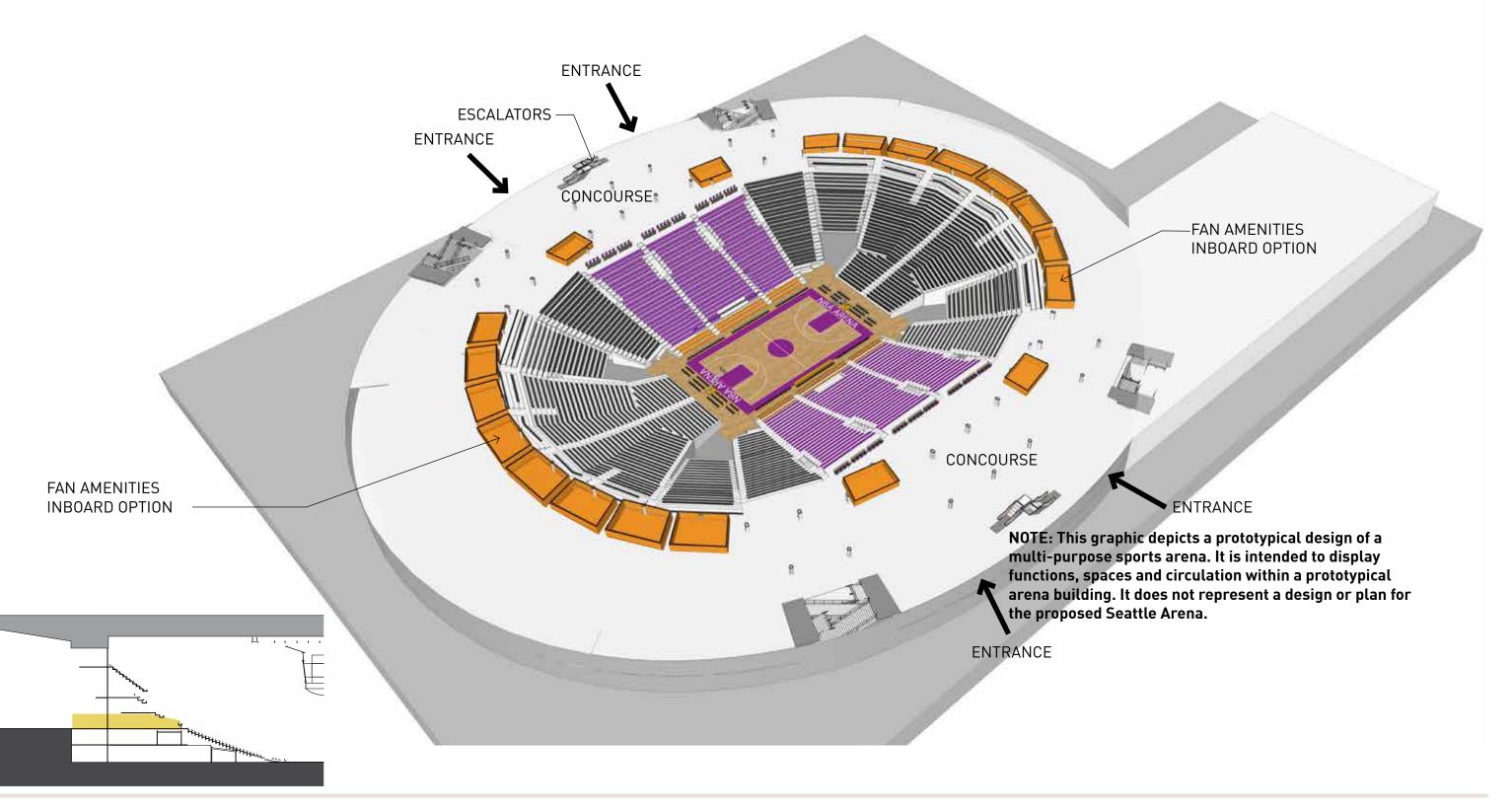


LOWER CLUB LEVEL



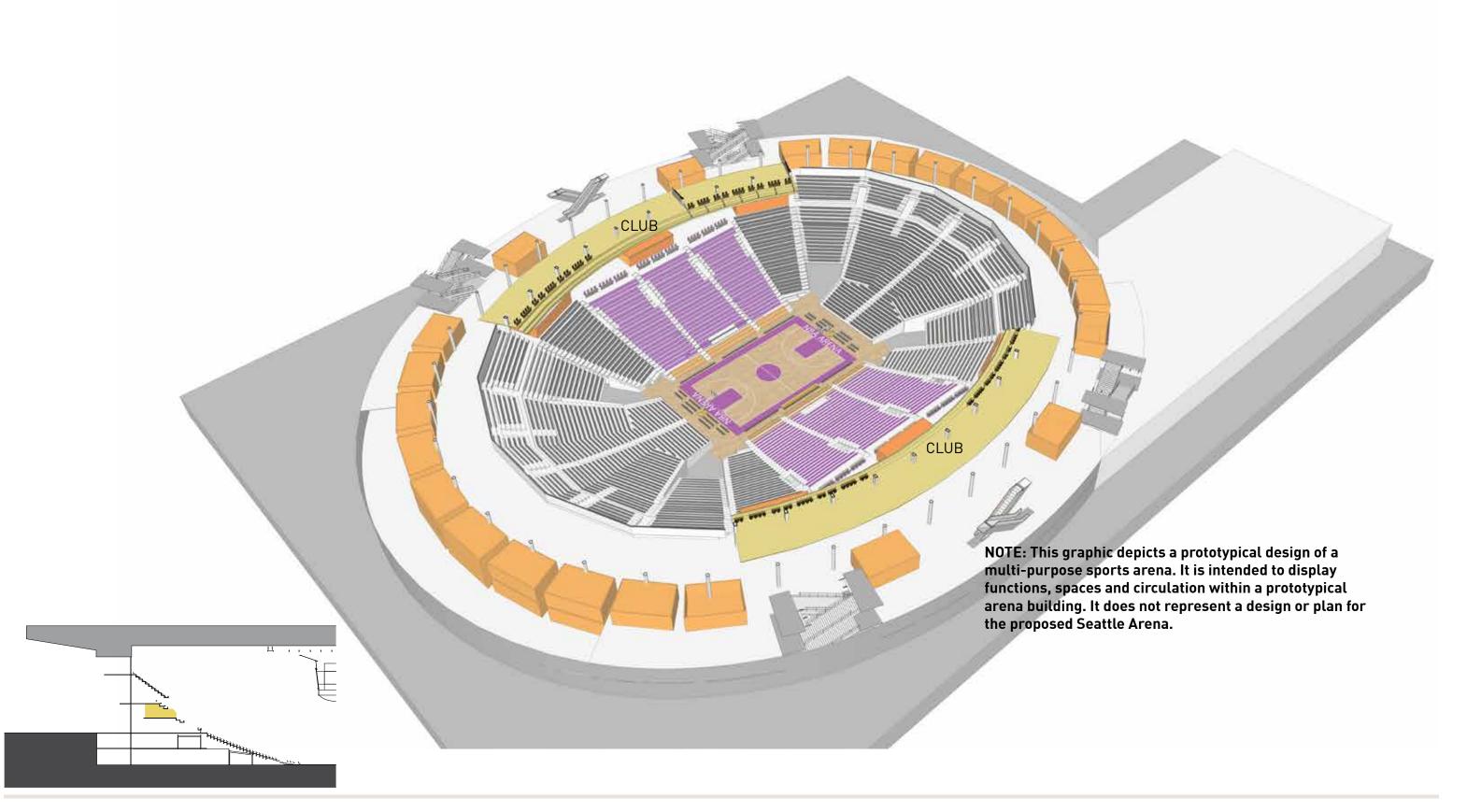


CONCOURSE LEVEL



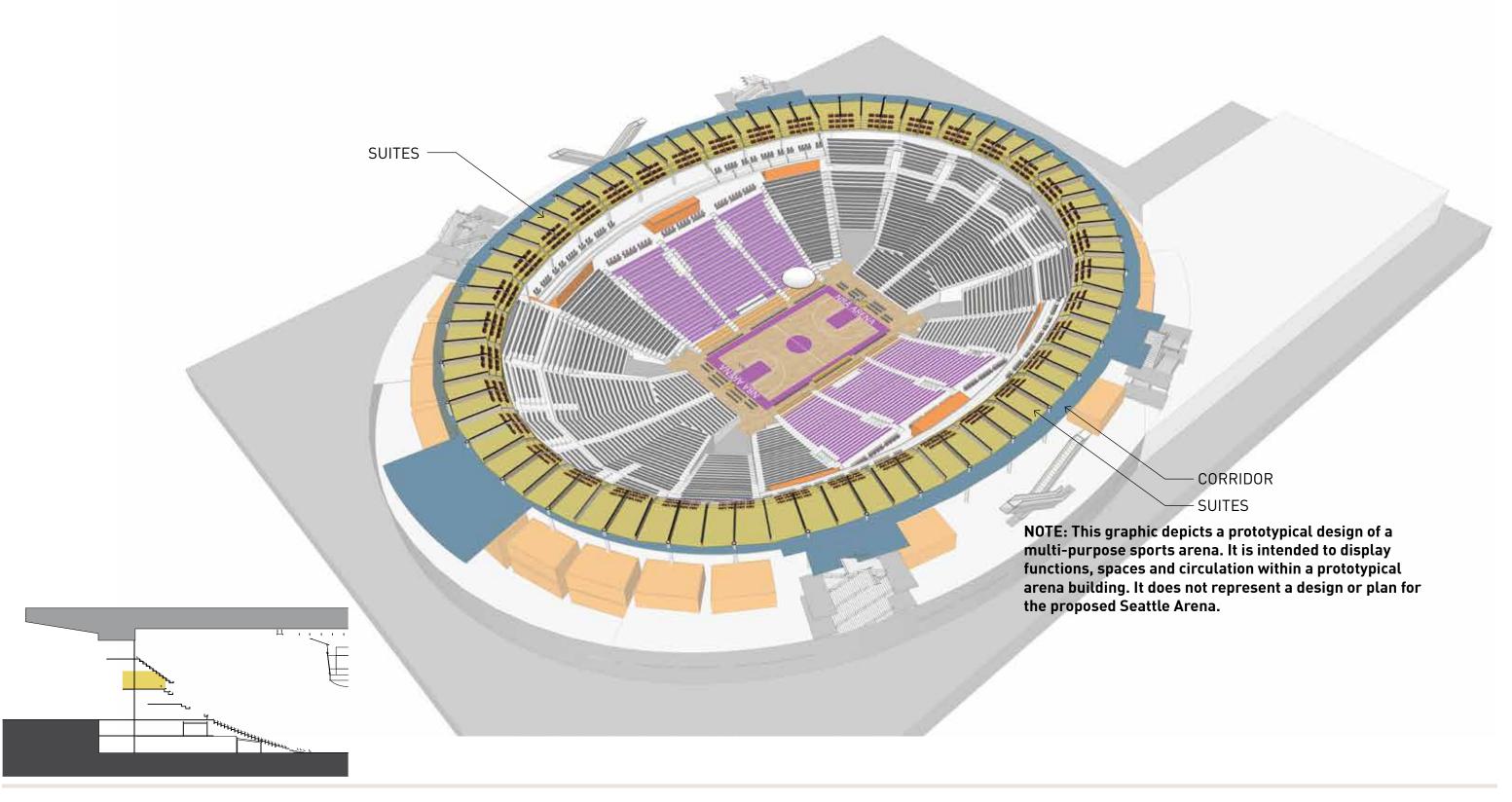


CONCOURSE LEVEL ALT

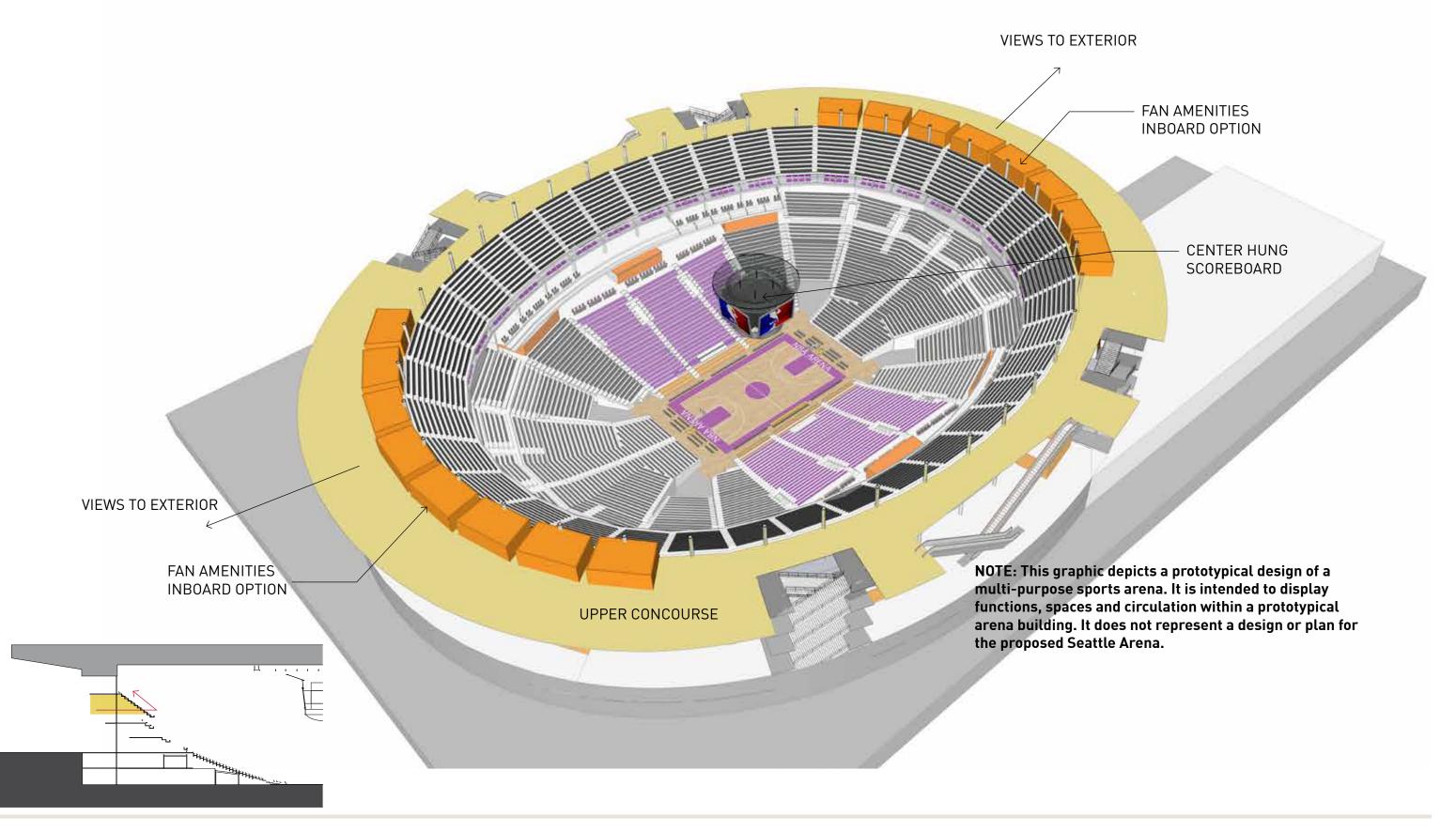




50 CLUB LEVEL

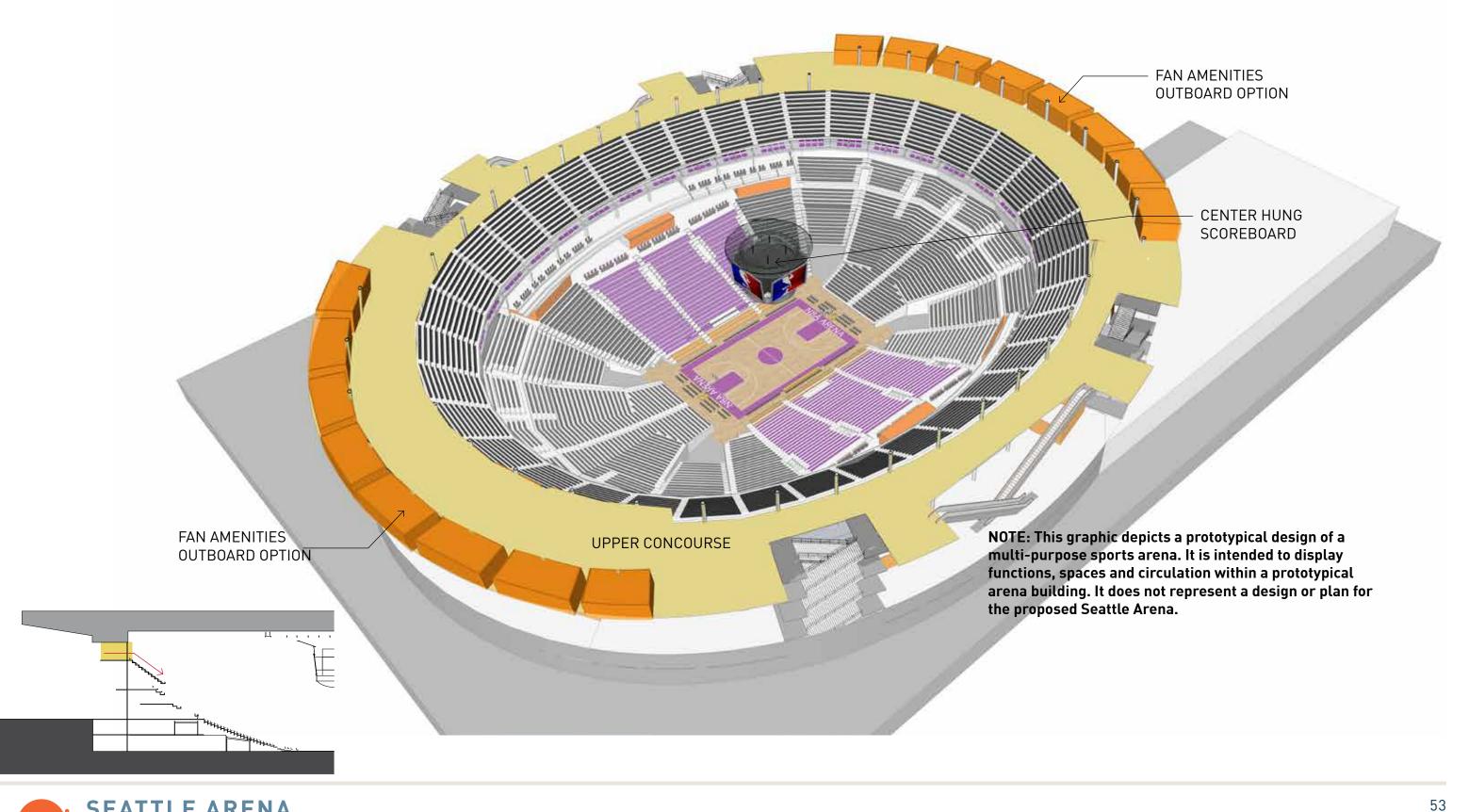








UPPER CONCOURSE



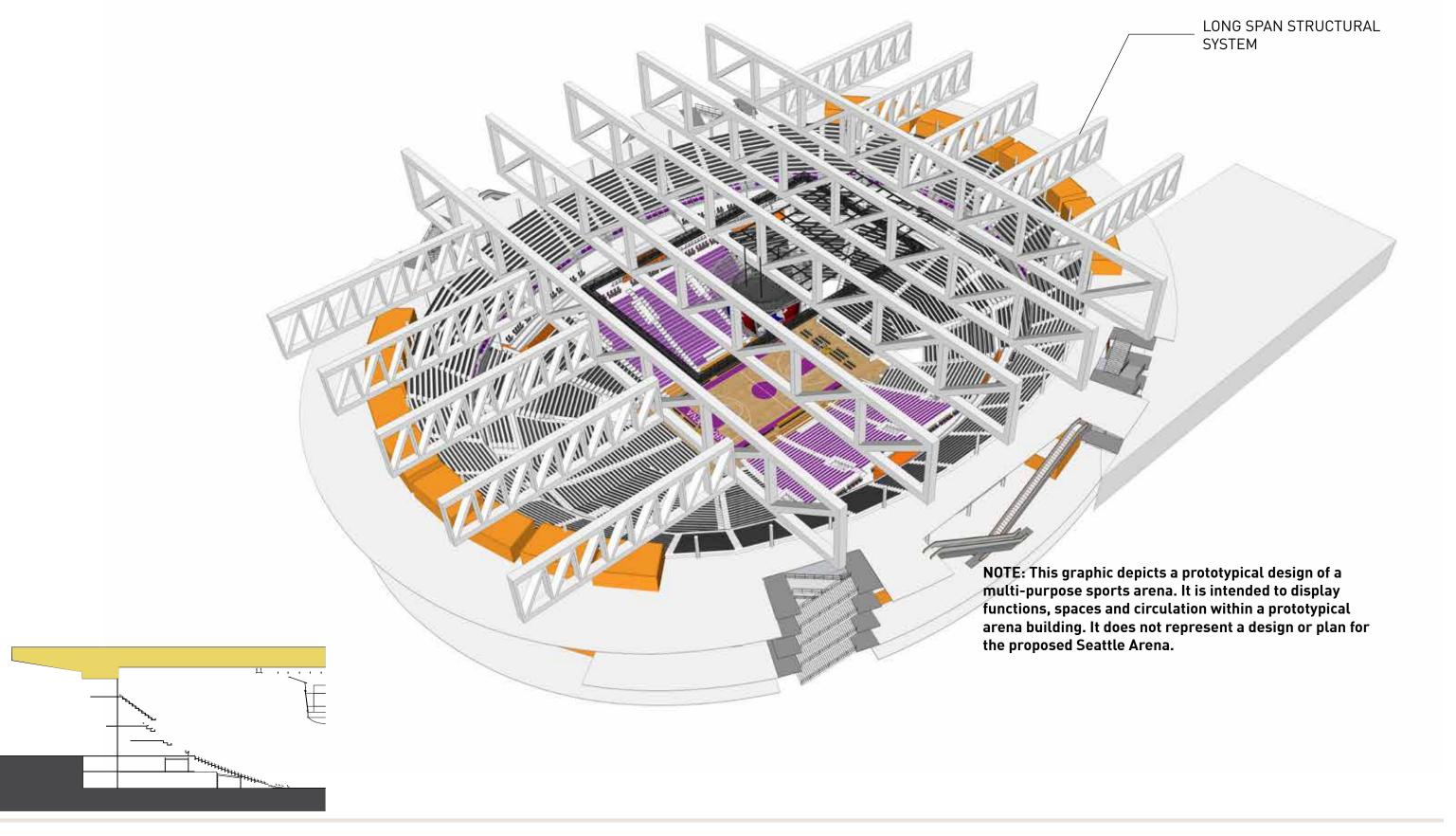


**UPPER CONCOURSE ALT** 



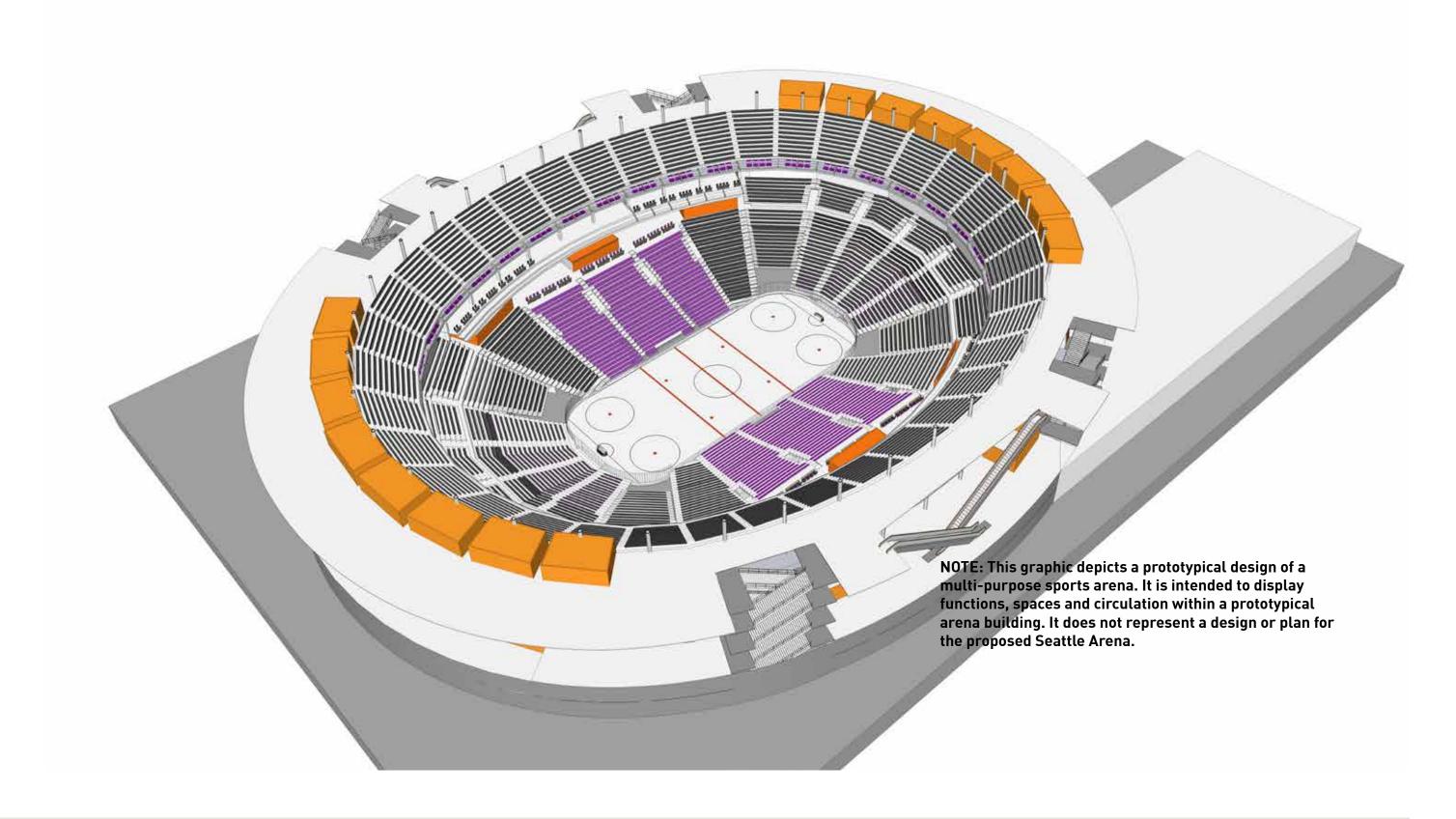


SCOREBOARD

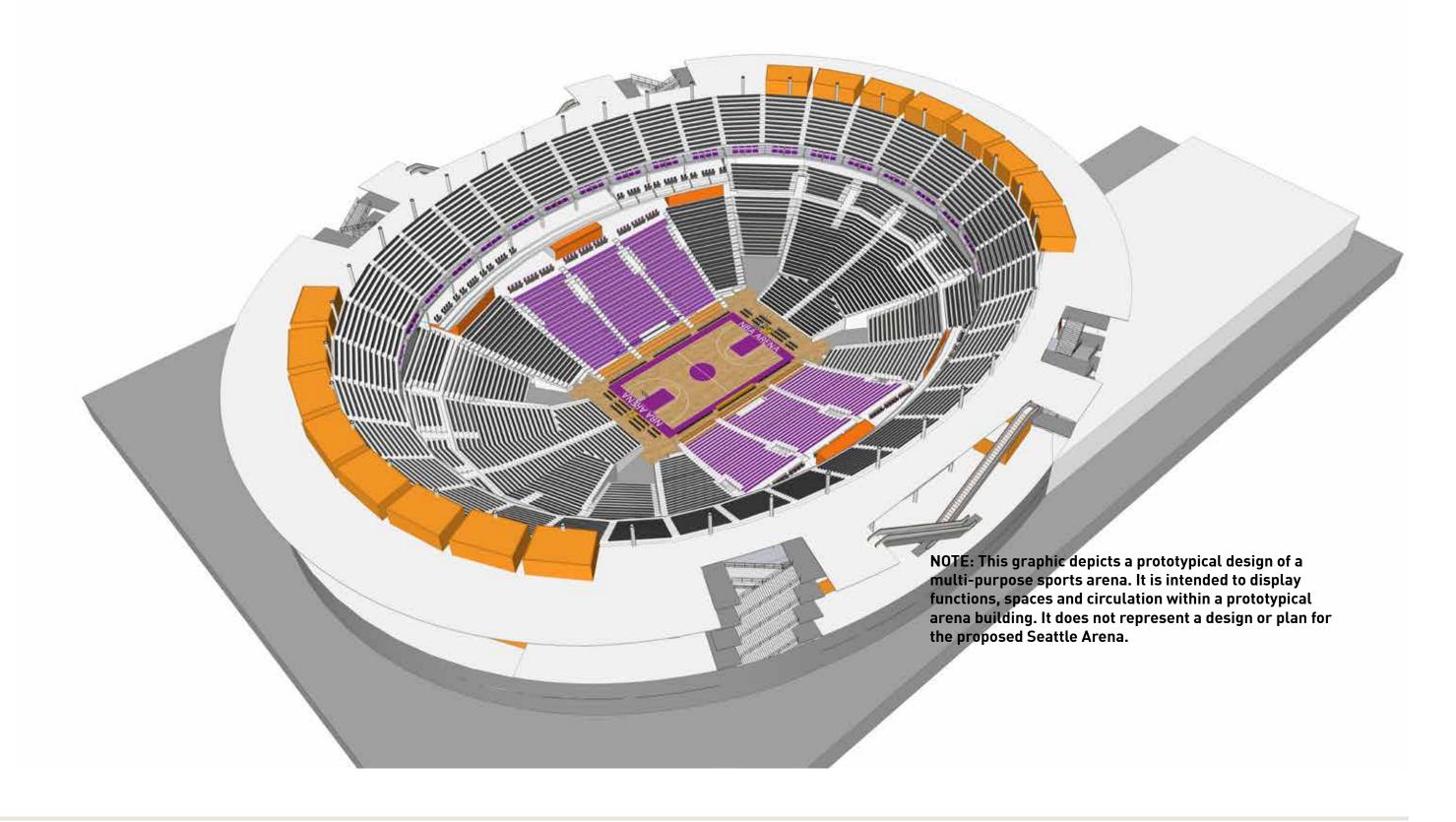


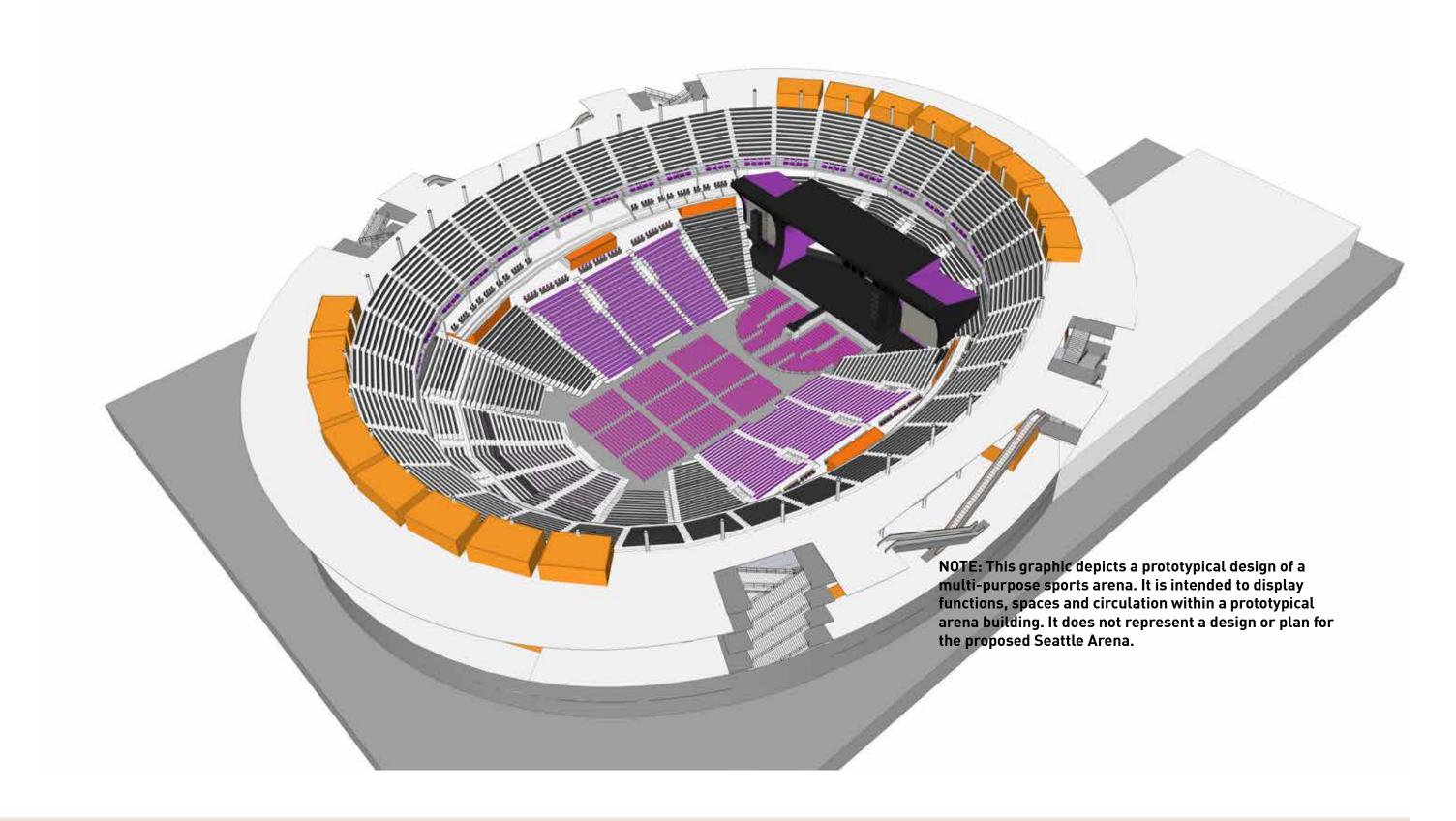


ROOF STRUCTURE

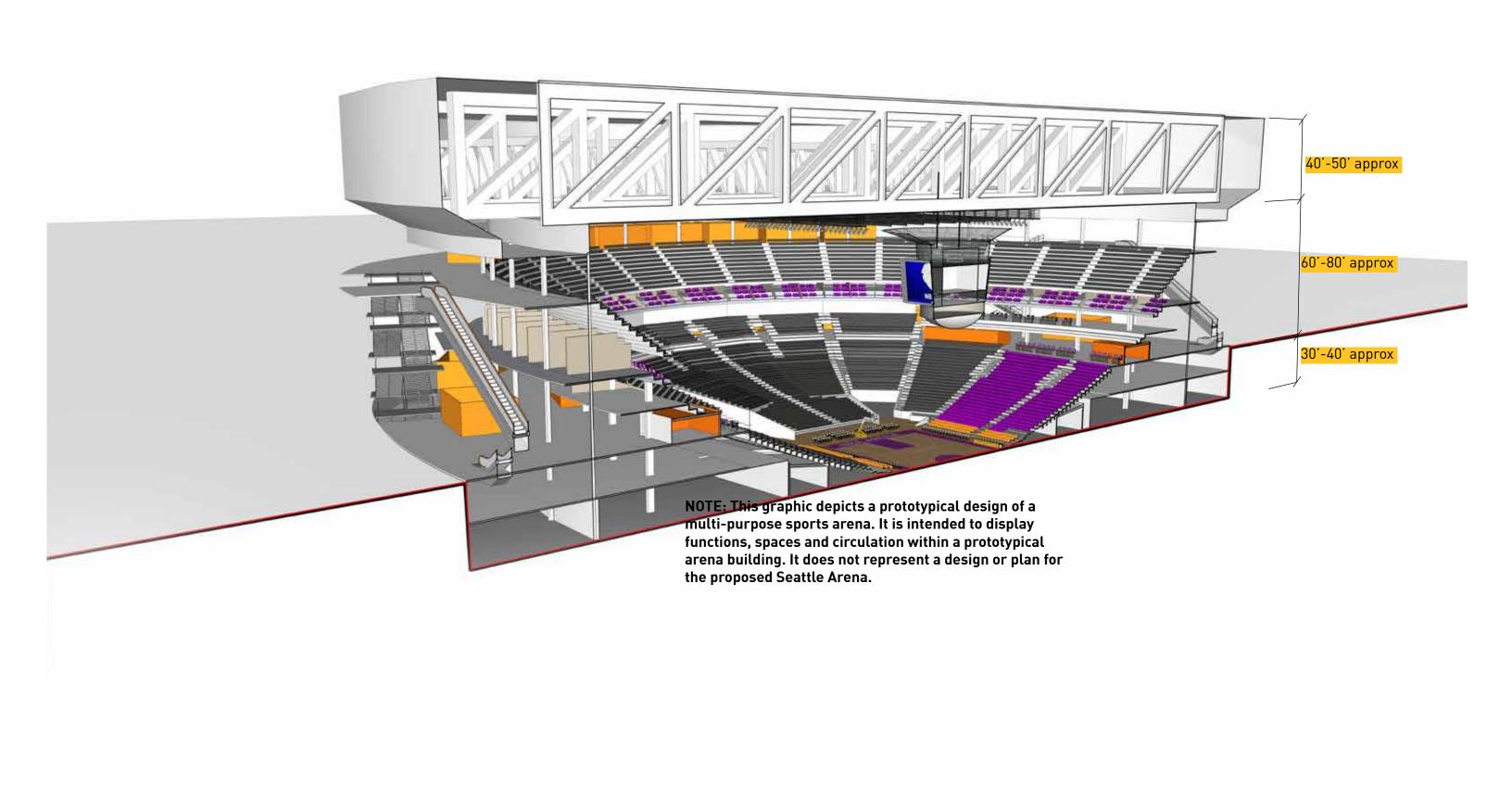




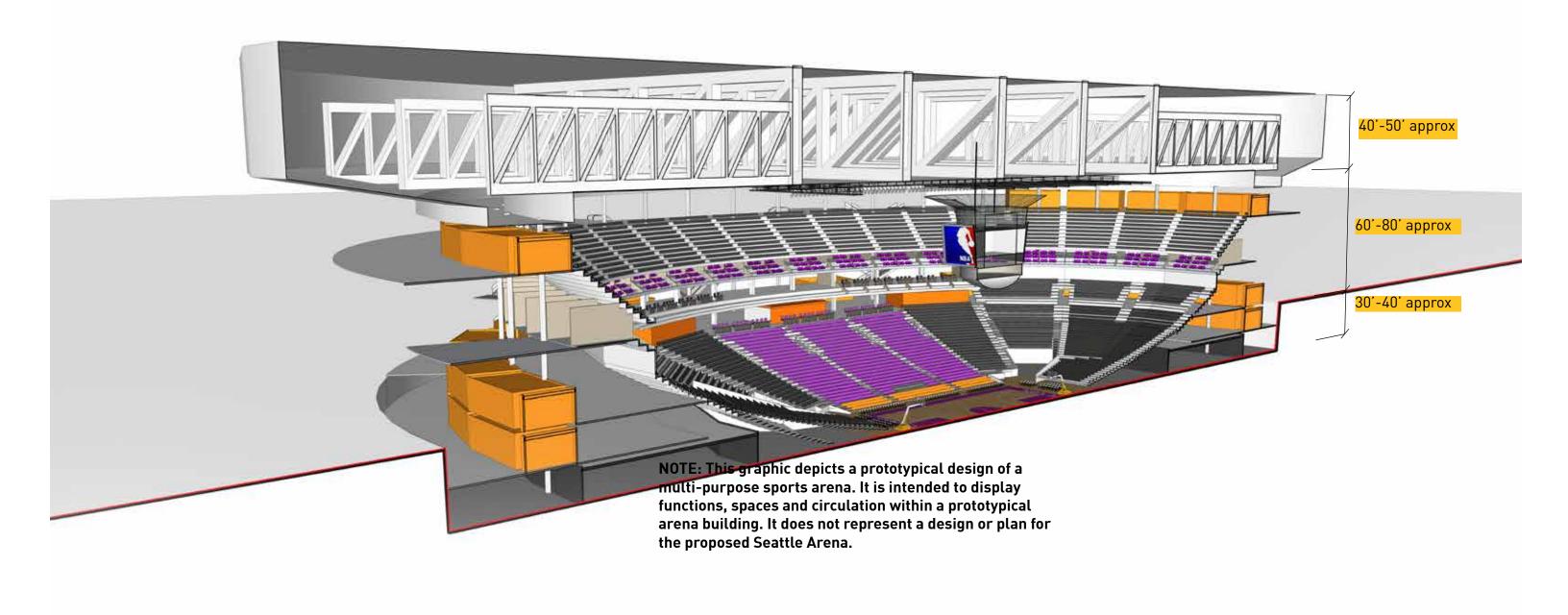


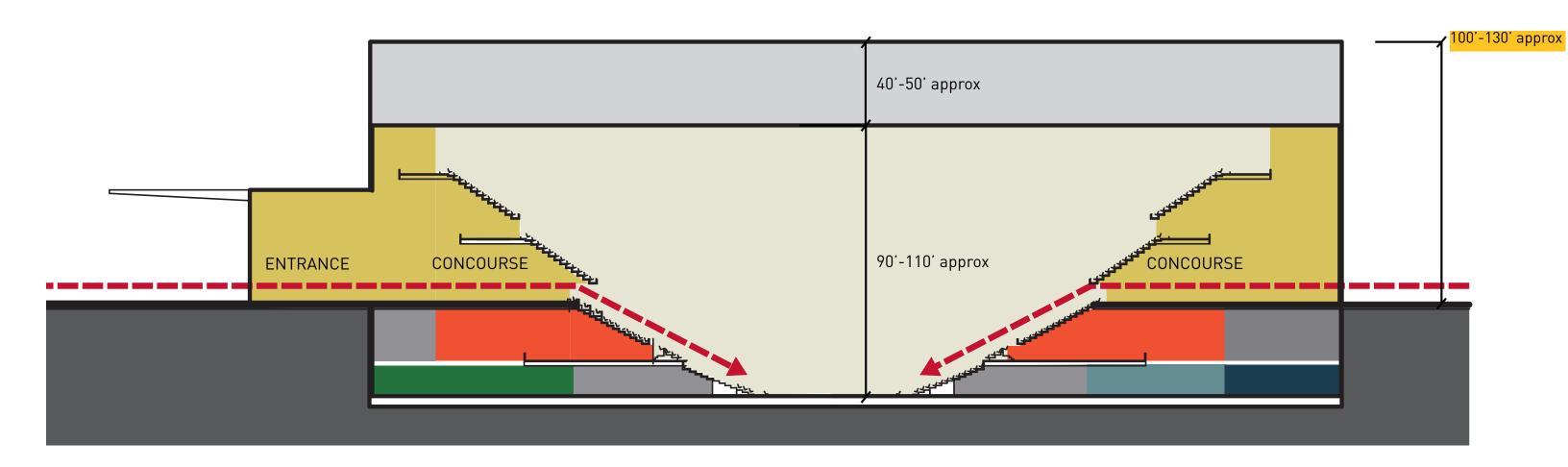


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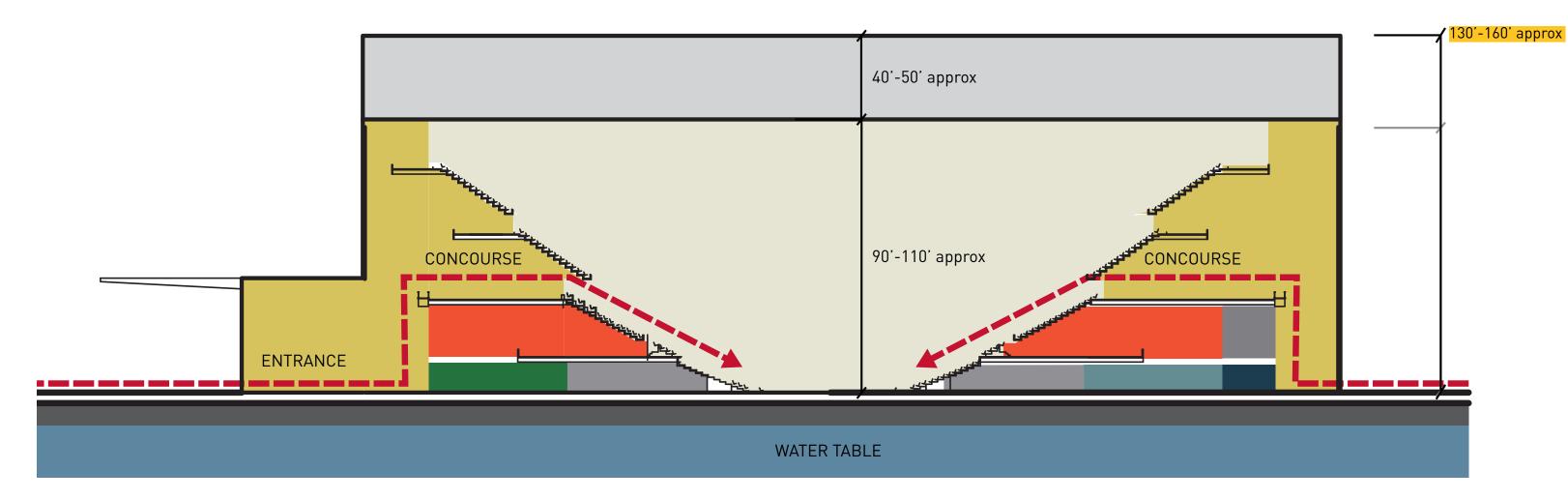




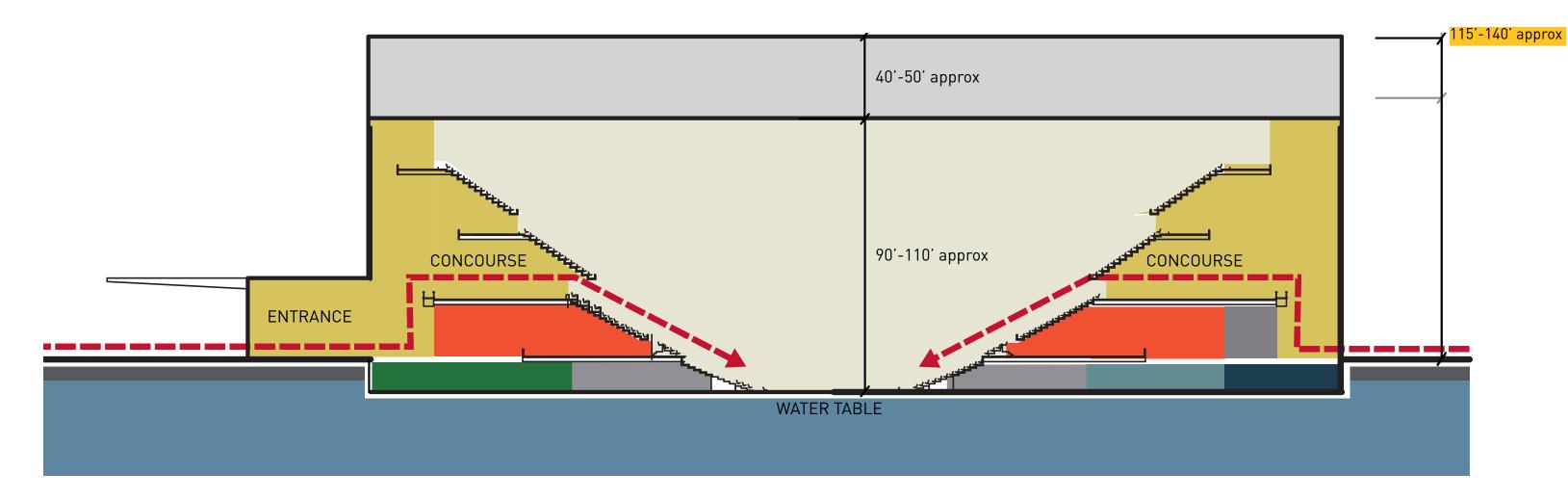




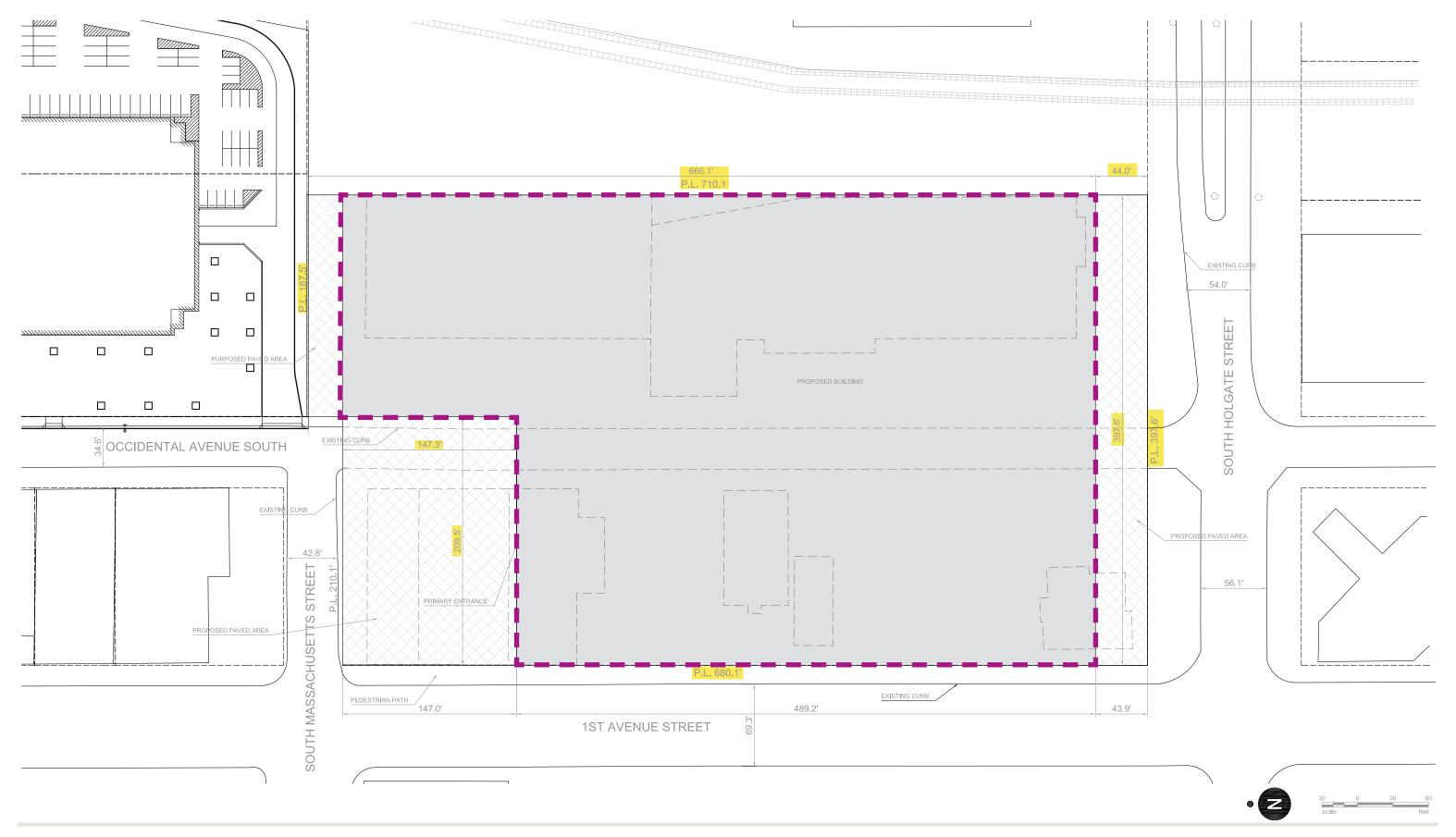
NOTE: This graphic depicts a prototypical design of a multi-purpose sports arena. It is intended to display functions, spaces and circulation within a prototypical arena building. It does not represent a design or plan for the proposed Seattle Arena.



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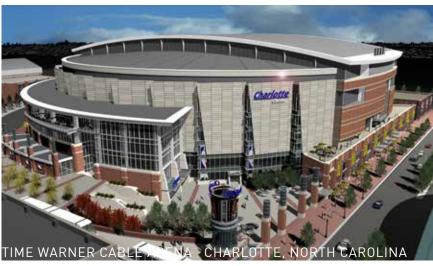


PRELIMINARY SITE PLAN









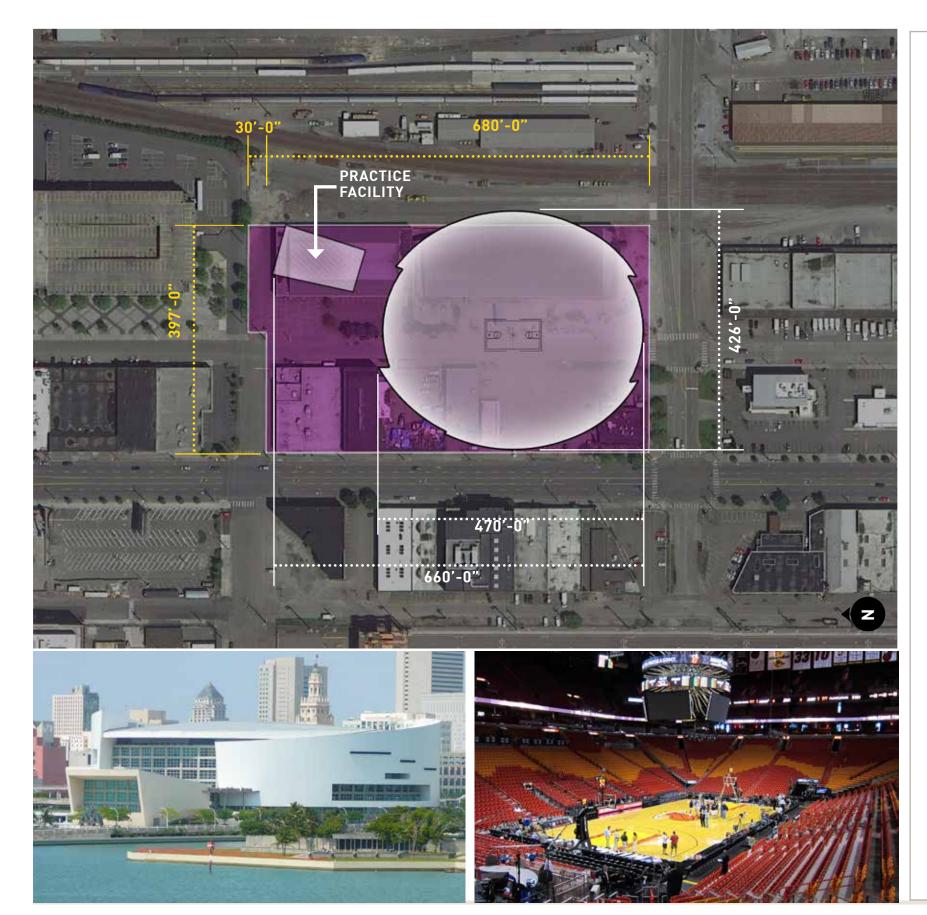












# **AMERICAN AIRLINES ARENA**

MIAMI, FLORIDA

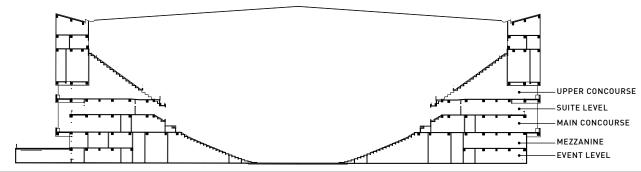
OVERALL SQUARE FOOTAGE	680,000 SF
BASIC "FOOTPRINT" DIM'S.	426 x 470 (157,068 footprint)
DESIGN GEOMETRY	BB/Hockey
PUBLIC CONCOURSES	2
PRIVATE SUITE CONCOURSES	1
PRIVATE CLUB CONCOURSES	1
# ROWS - LOWER BOWL (@ CL)	24
# ROWS - MIDDLE BOWL (@ CL)	
# ROWS - UPPER BOWL (AT CL)	24
# ROWS - UPPER BOWL (AT END ZONE)	

#### **SEAT COUNT**

TOTAL BASKETBALL 19,600

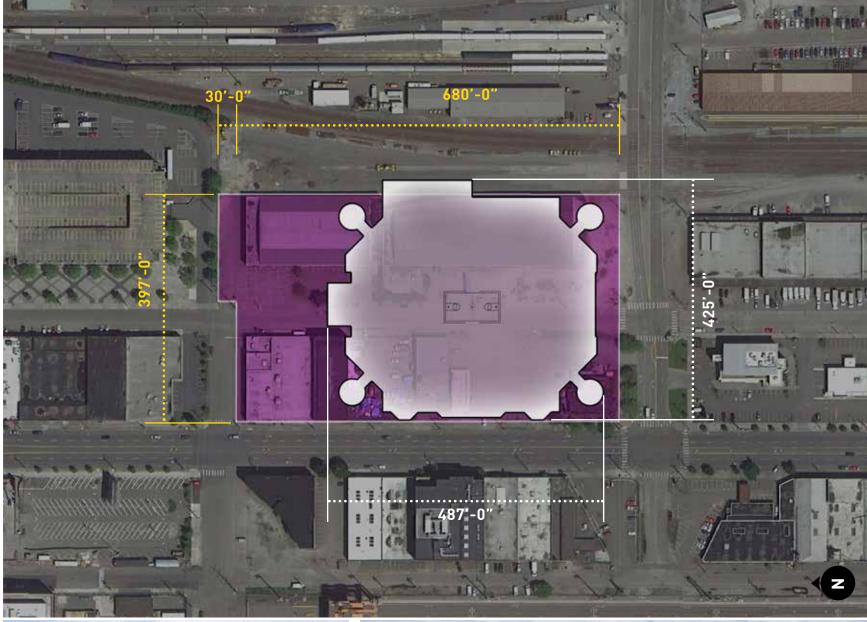
% OF SEATS UPPER DECK

% OF SEATS LOWER BOWL (INCLUDING CLUB & SUITE SEATS)





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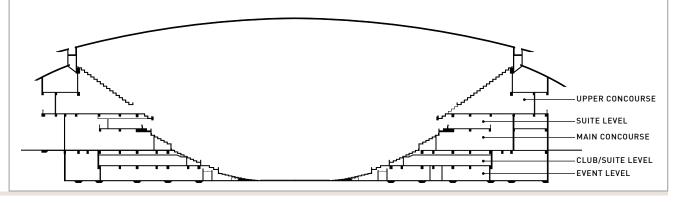


# AT&T CENTER

SAN ANTONIO, TEXAS

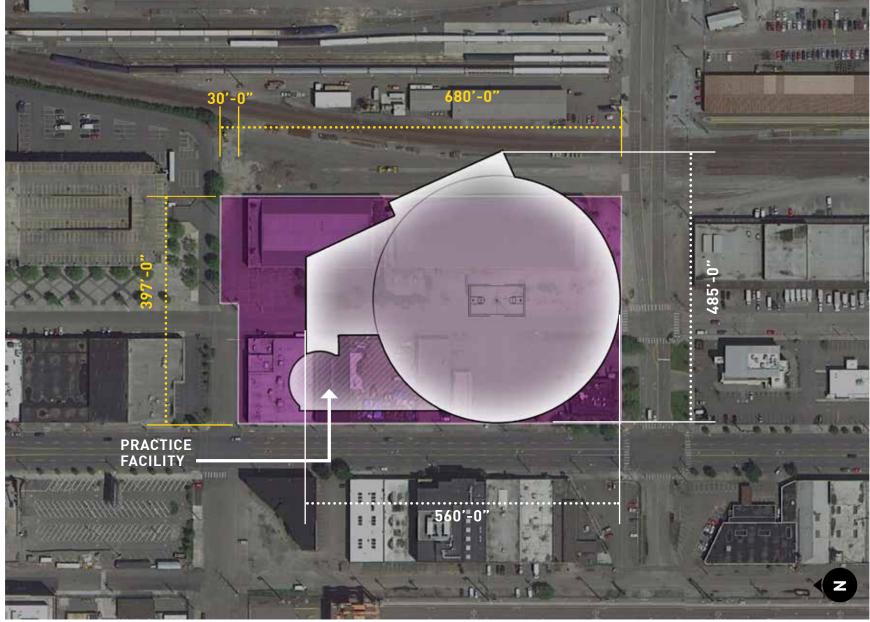
OVERALL SQUARE FOOTAGE	740,000
BASIC "FOOTPRINT" DIM'S.	425 x 487 (168,990 SF footprint)
DESIGN GEOMETRY	BB
PUBLIC CONCOURSES	2
PRIVATE SUITE CONCOURSES	2
PRIVATE CLUB CONCOURSES	0
# ROWS - LOWER BOWL (@ CL)	
# ROWS - MIDDLE BOWL (@ CL)	
# ROWS - UPPER BOWL (AT CL)	
# ROWS - UPPER BOWL (AT END ZONE)	

SEAT COUNT	
TOTAL BASKETBALL	18500
% OF SEATS UPPER DECK	47%
% OF SEATS LOWER BOWL (INCLUDING CLUB & SUITE SEATS)	53%





SEATTLE ARENA DECEMBER 06, 2012







# **FEDEX FORUM**

MEMPHIS, TENESSEE

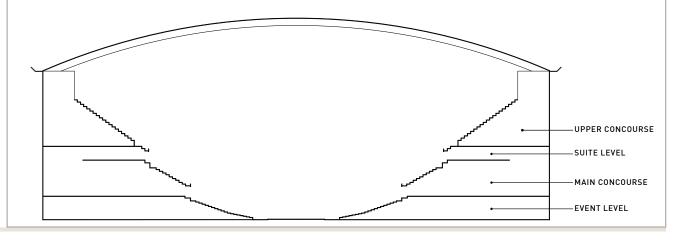
OVERALL SQUARE FOOTAGE	805,850 SF
BASIC "FOOTPRINT" DIM'S.	485 x 560 (157,068 footprint)
DESIGN GEOMETRY	BB
PUBLIC CONCOURSES	2
PRIVATE SUITE CONCOURSES	2
PRIVATE CLUB CONCOURSES	
# ROWS - LOWER BOWL (@ CL)	21
# ROWS - MIDDLE BOWL (@ CL)	11
# ROWS - UPPER BOWL (AT CL)	23

SEAT COUNT		
TOTAL BASKETBALL	18,200	
% OF SEATS UPPER DECK	47%	
O/ OF CEATC LOWED DOWN		

53%

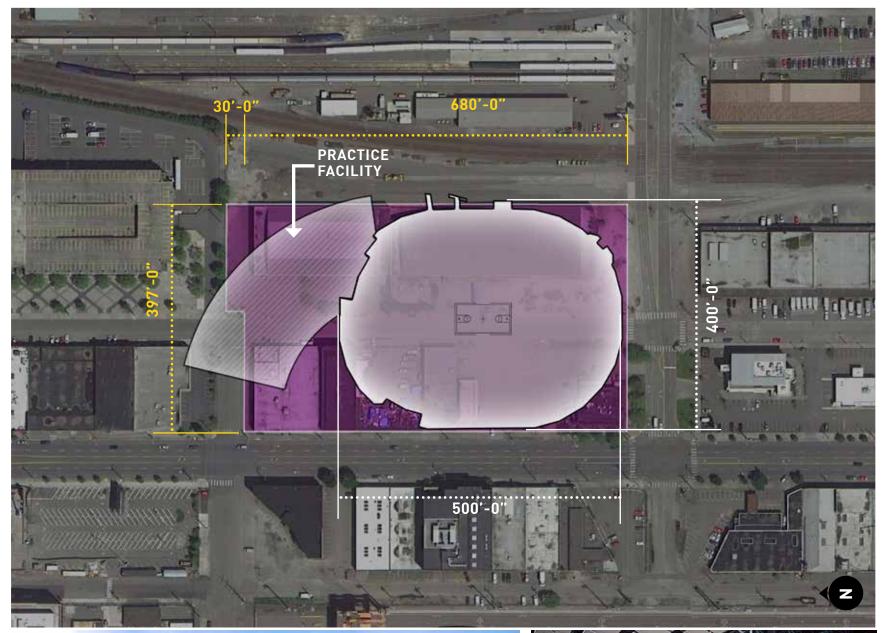
% OF SEATS LOWER BOWL (INCLUDING CLUB & SUITE SEATS)

# ROWS - UPPER BOWL (AT END ZONE)





**SEATTLE ARENA** DECEMBER 06, 2012







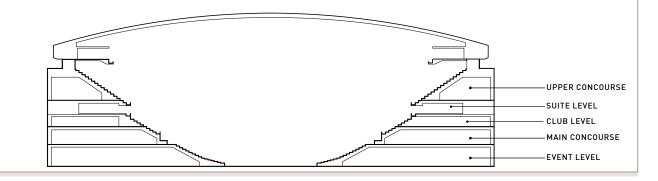
# **ROSE GARDEN ARENA**

PORTLAND, OREGON

OVERALL SQUARE FOOTAGE	785,000
BASIC "FOOTPRINT" DIM'S.	400 x 500 (165,158 footprint)
DESIGN GEOMETRY	Hockey
PUBLIC CONCOURSES	2
PRIVATE SUITE CONCOURSES	1
PRIVATE CLUB CONCOURSES	1
# ROWS - LOWER BOWL (@ CL)	16
# ROWS - MIDDLE BOWL (@ CL)	9
# ROWS - UPPER BOWL (AT CL)	17

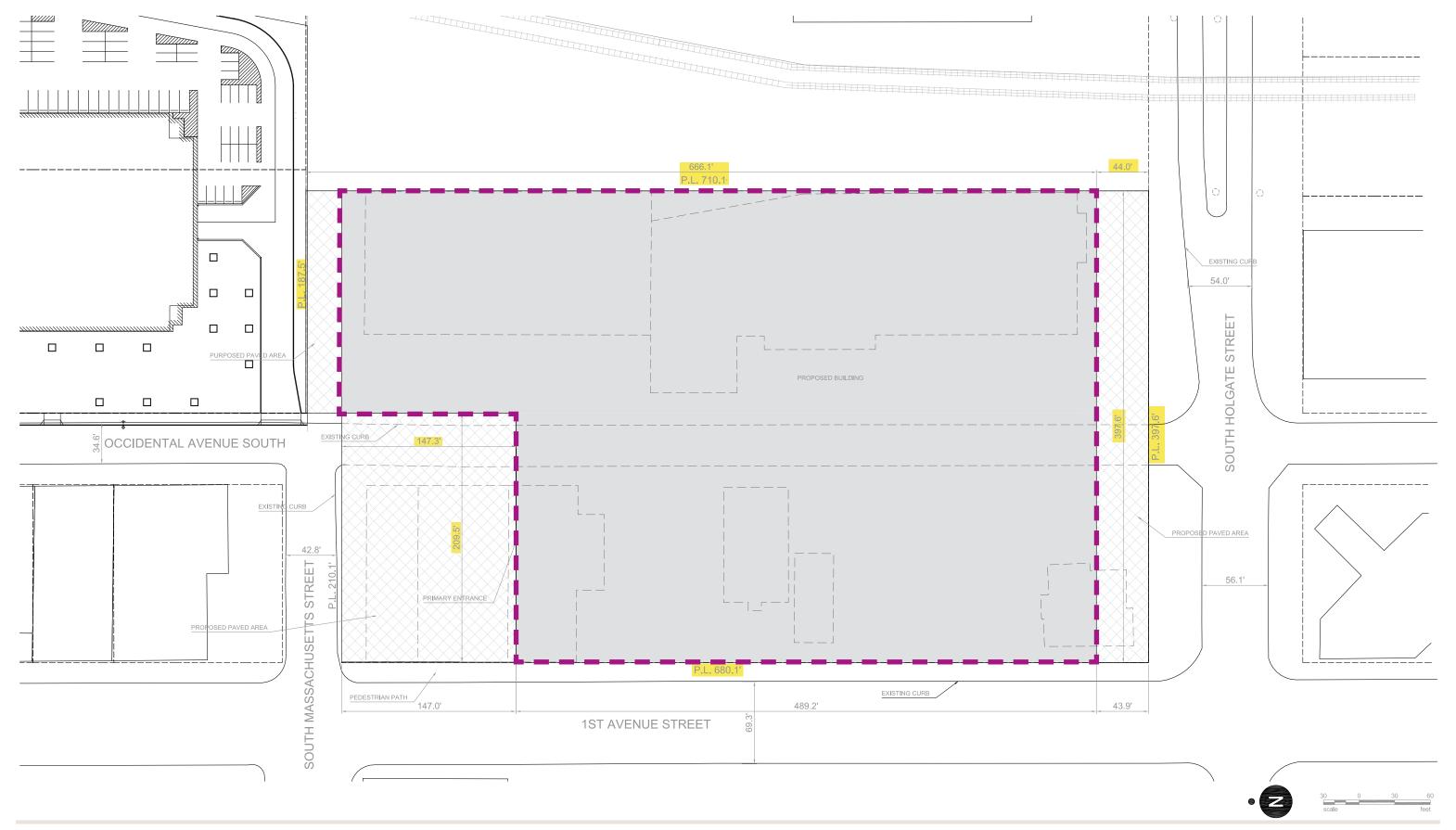
SEAT COUNT	
TOTAL BASKETBALL	21,212
% OF SEATS UPPER DECK	39%
% OF SEATS LOWER BOWL (INCLUDING CLUB & SUITE SEATS)	61%

# ROWS - UPPER BOWL (AT END ZONE)





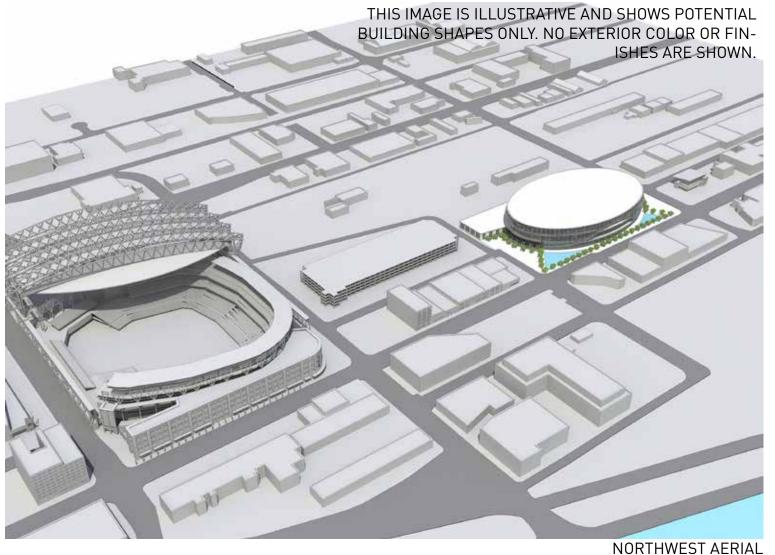
**SEATTLE ARENA** DECEMBER 06, 2012



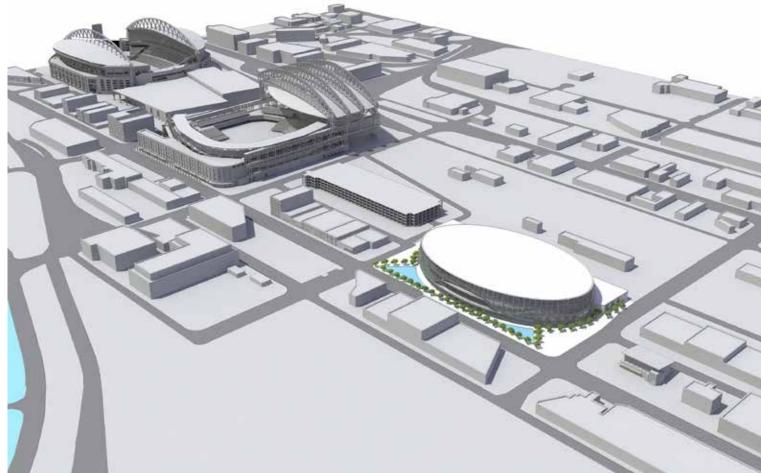


PRELIMINARY SITE PLAN





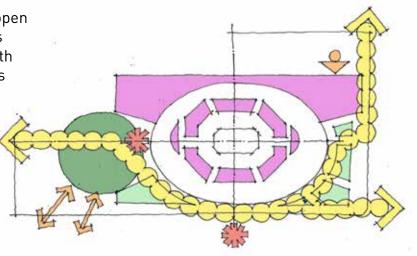
THIS IMAGE IS ILLUSTRATIVE AND SHOWS POTENTIAL BUILDING SHAPES ONLY. NO EXTERIOR COLOR OR FIN-ISHES ARE SHOWN.



**SOUTHWEST AERIAL** 

# **DESIGN OPTION 1**

A iconic, transparent building that maximizes open plaza space along First Avenue, Massachusetts and Holgate. This option amplifies its views with its transparency creating a 360 view of Seattle's landmarks.



## **PROS**

- Highly transparent Façade provides maximum visual connectivity from and into the building
- Public open space balanced across site and promotes connection from Occidental to First Avenue and Holgate
- Landmark, iconic form

# CONS

- Less reinforcement of North-South activity cor-
- Highly transparent façade may create challenges with Seattle Energy Code
- Programmatically less-flexible Façade
- Less Street Frontage activity on 1st Avenue and Holgate
- Less responsive to contextual urban fabric



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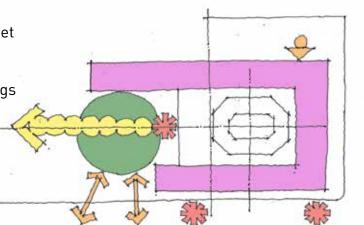


**SOUTHWEST AERIAL** 

#### **NORTHWEST AERIAL**

# **DESIGN OPTION 2**

A simple, efficient, cost effective building that maximizes function, architectural footprint and street frontage. The plaza is a street level and all vertical movement to concourse is located on the buildings interior. This option blends well with its surroundings and takes a reserved posture in the urban context.



## **PROS**

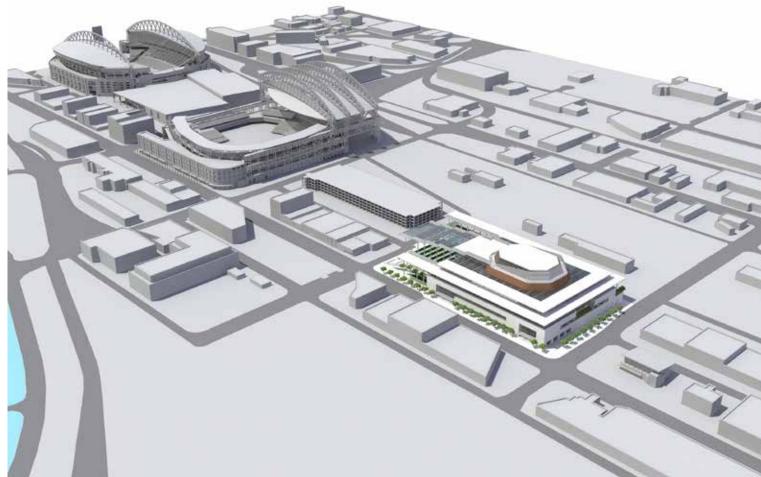
- Strong Visual and inspirational connections to downtown to the north
- Programmatically Flexible Façade
- Great Public Space at NW Corner ideal for large civic gatherings
- Enhances the contextual urban Fabric by maximizing street frontage on 1st Avenue and Holgate

### **CONS**

- Contextual façade provides less transparency from and into building
- Public open space gathered in NW corner may feel less intimate on non-game days
- Emphasis on contextual façade diminishes landmark, iconic presence



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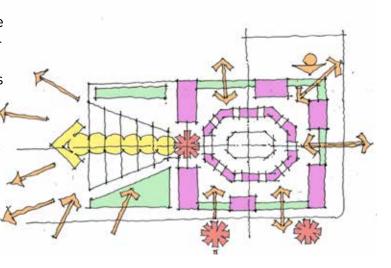


**SOUTHWEST AERIAL** 

## NORTHWEST AERIAL

## **OPTION 3 - PREFERRED**

A civic expression that maximizes the footprint of the site to create a "front porch" to downtown,1st Avenue and Occidental St. The stepped plaza gradually transitions to the concourse level. This option creates a balanced approach of solid and transparent massings to frame views of Seattle's landmarks while maintaining a flexible facade for 1st Avenue and Holgate St.



## **PROS**

- Strong Visual and inspirational connections to downtown to the north
- Transparency at interior public circulation is maximized to allow views to and from and create way-finding by landmarks
- Programmatically Flexible Façade
- Terraced entry plaza and multiple outdoor decks allows for different scales of activities and create a ceremonial civic "front porch"
- Design Inspired by Site History
- Balances response to contextual urban fabric while providing a beacon as an iconic landmark

### **CONS**

- Open space gathered to northwest terraced design less ideal for very large gatherings
- Contemporary fenestration approach relies on materiality to blend with context