

WASHINGTON
UNION STATION
STATION EXPANSION

Draft Environmental Impact Statement for Washington
Union Station Expansion Project

Appendix A5a – Action Alternatives Refinement Report

**Appendix A-1 – Action Alternatives
Refinement Drawings**



U.S. Department of Transportation
Federal Railroad Administration

January 2020

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Washington Union Station Expansion Project

Action Alternatives Refinement Report
Appendices

JANUARY 2020

Contents

Introduction

Appendix A provides supporting information to the Alternatives Refinement Report in the form of drawings representing the Action Alternatives and additional study materials presented during the Proponents' Workshops and other coordination sessions. Section A-1 documents a full complement of drawings for all program elements carried to the end of Design Refinement, including the rail terminal, bus facility, public parking, for-hire vehicles, and other supporting elements.

Appendix A-1: Action Alternatives Refinement Drawings

Appendix A-2: Compendium of Relevant Studies

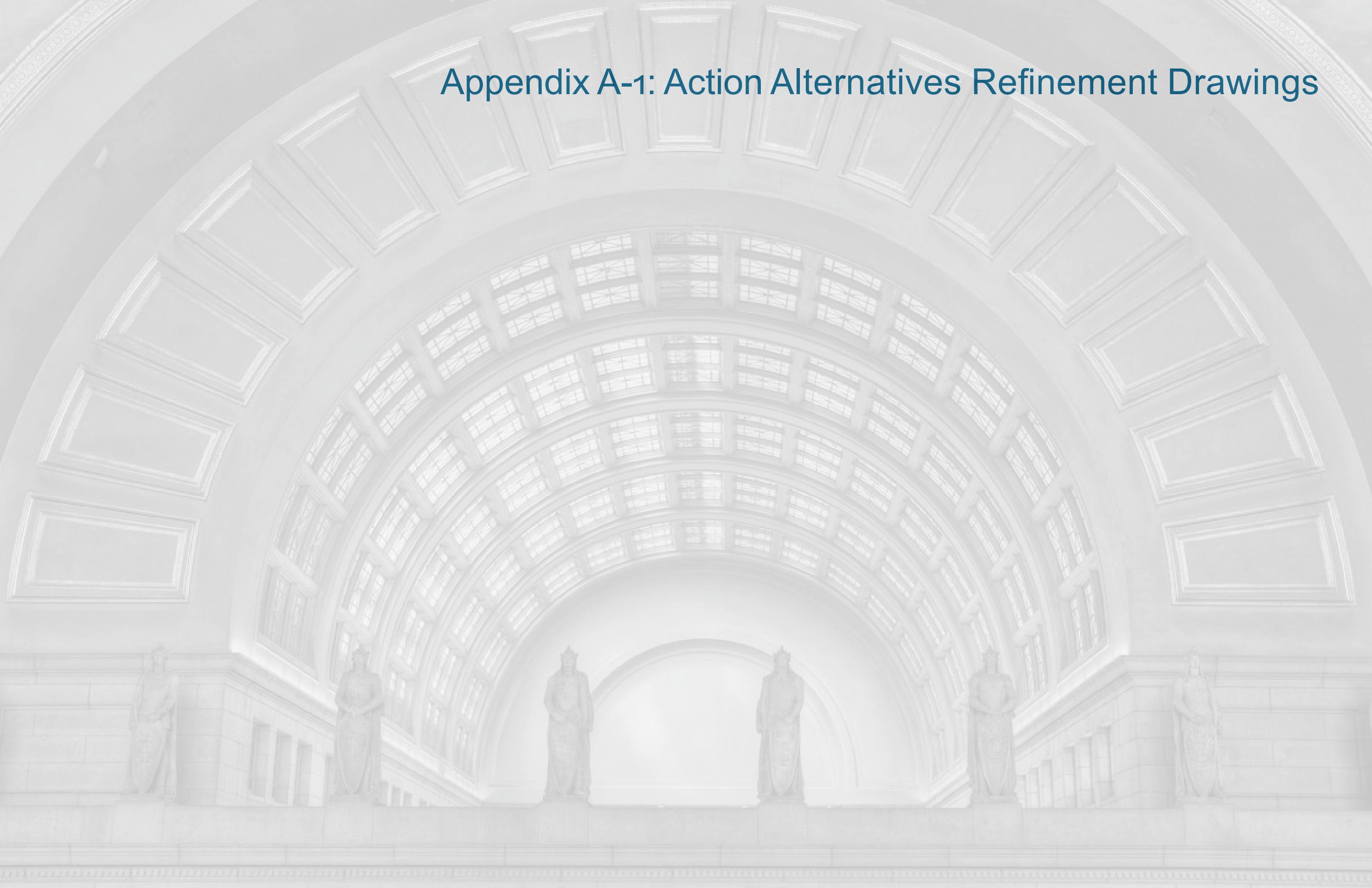
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Appendix C: Pedestrian Circulation Report

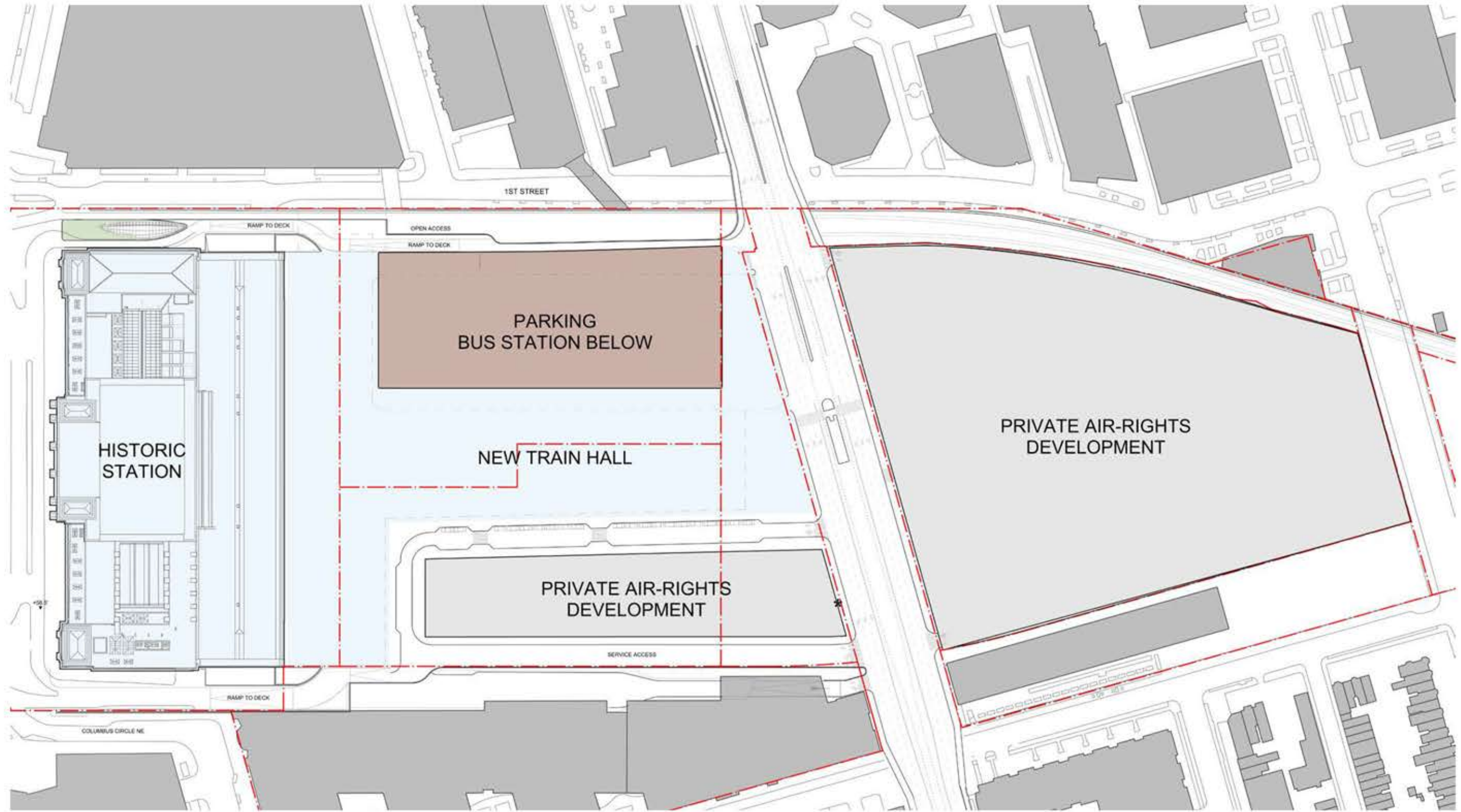
Appendix D: Reference Memoranda

Appendix A-1: Action Alternatives Refinement Drawings

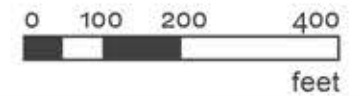


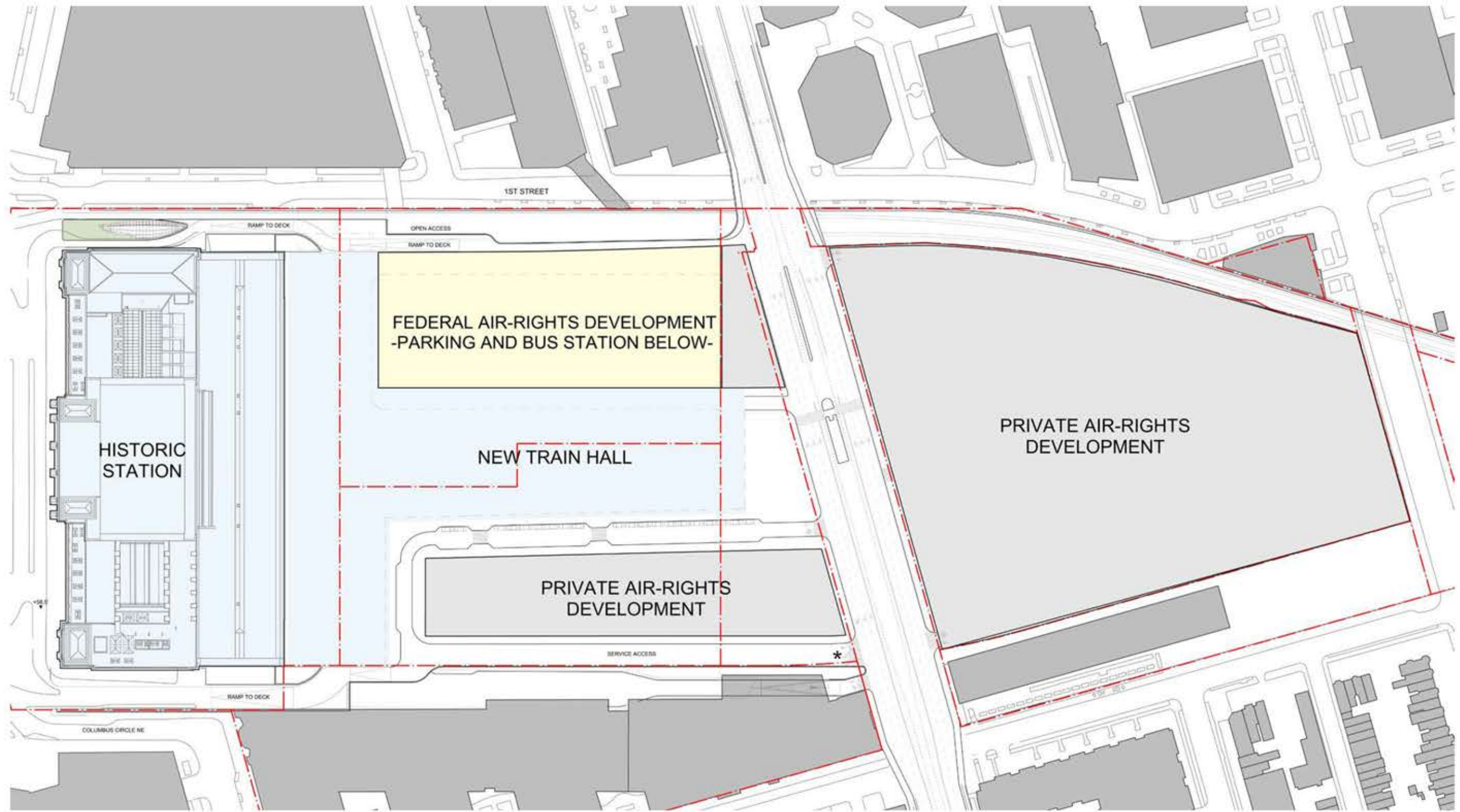
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WUS001-007	Plan	Roof/Site Plan	7
WUS008-009	Plan	Deck Level Three Plan	2
WUS010-016	Plan	Deck Level Two Plan	7
WUS017-023	Plan	Deck Level One Plan	7
WUS0024-027	Plan	Station/Platform Main Level (TI 14)	4
WUS028	Plan	Station/Platform Main Level (TI 16)	1
WUS029-032	Plan	Lower Concourse Level (TI 14)	4
WUS033	Plan	Lower Concourse Level (TI 16)	1
WUS034-035	Plan	B1 Parking/BOH Level	2
WUS036	Plan	B2 Parking/BOH Level	1
WUS037	Plan	Typical Foundation Level Plan	1
WUS038-043	Section	Transverse Section: Through Midblock South of H Street	6
WUS044-048	Section	Transverse Section: Through Midblock North of H Street	5
WUS049-060	Section	Longitudinal Section: Through Central Concourse	12
WUS061	Section	Transverse Section: Through South of H Street	1
WUS062	Section	Transverse Section: Through Middle of H Street	1
WUS063	Section	Transverse Section: Through H Street at Western Edge Near 1st Street	1
WUS064	Section	Transverse Section: Through H Street at Crest	1
WUS065	Section	Transverse Section: Through H Street at Eastern Edge Near 2nd Street	1

DRAWING NUMBER MATRIX

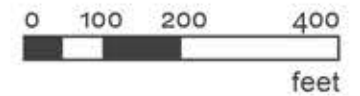


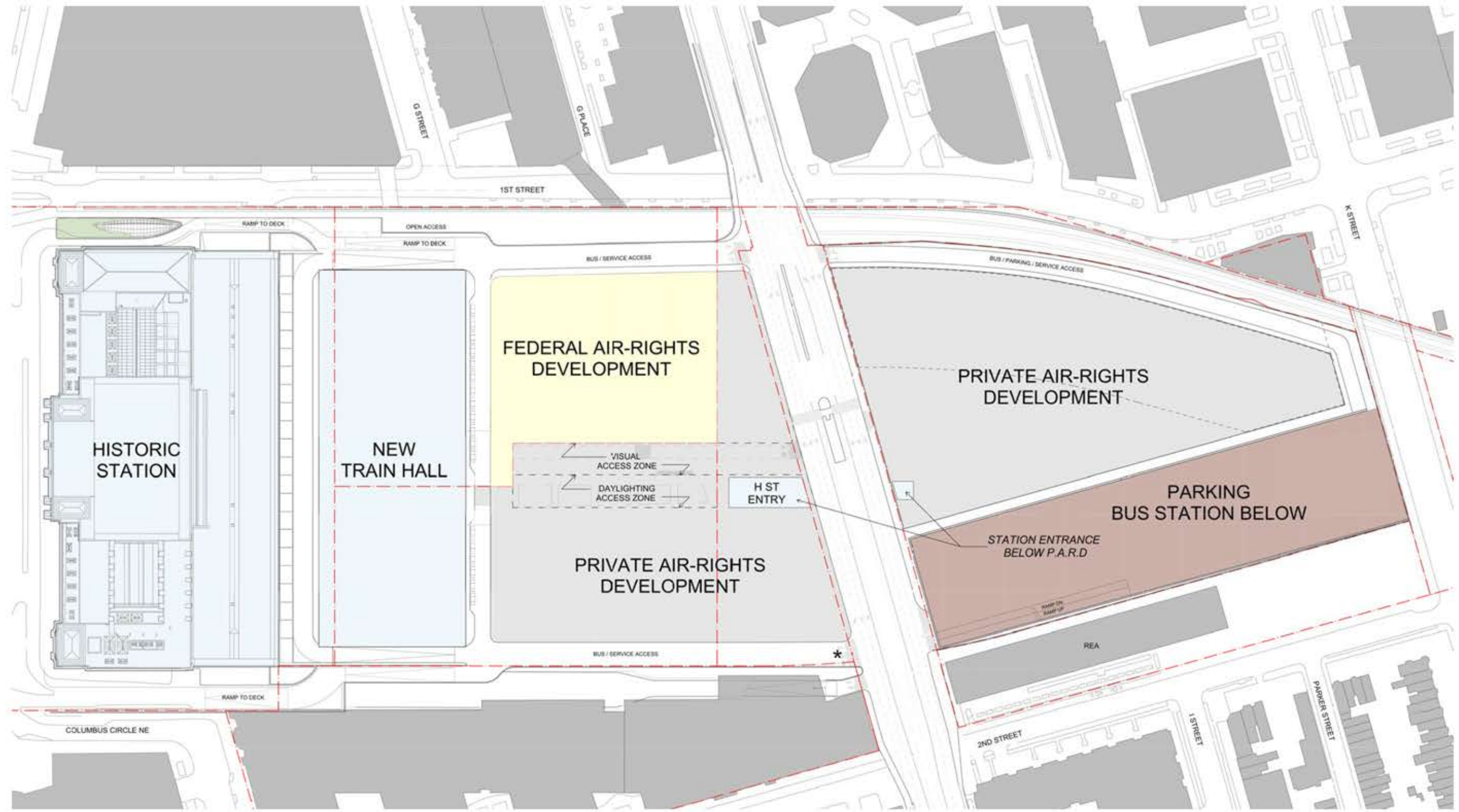
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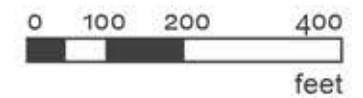


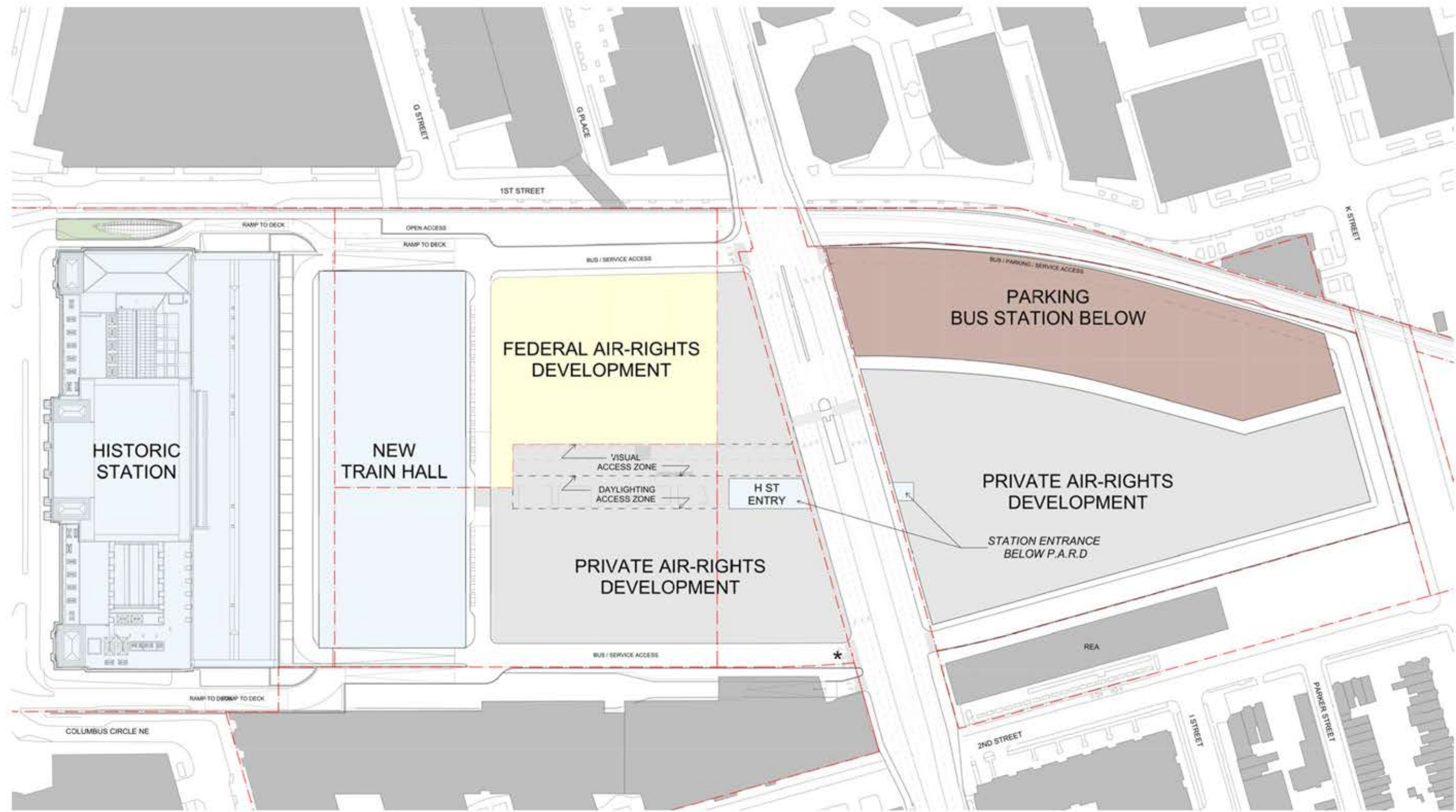
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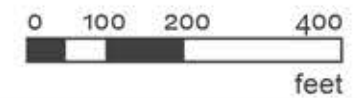


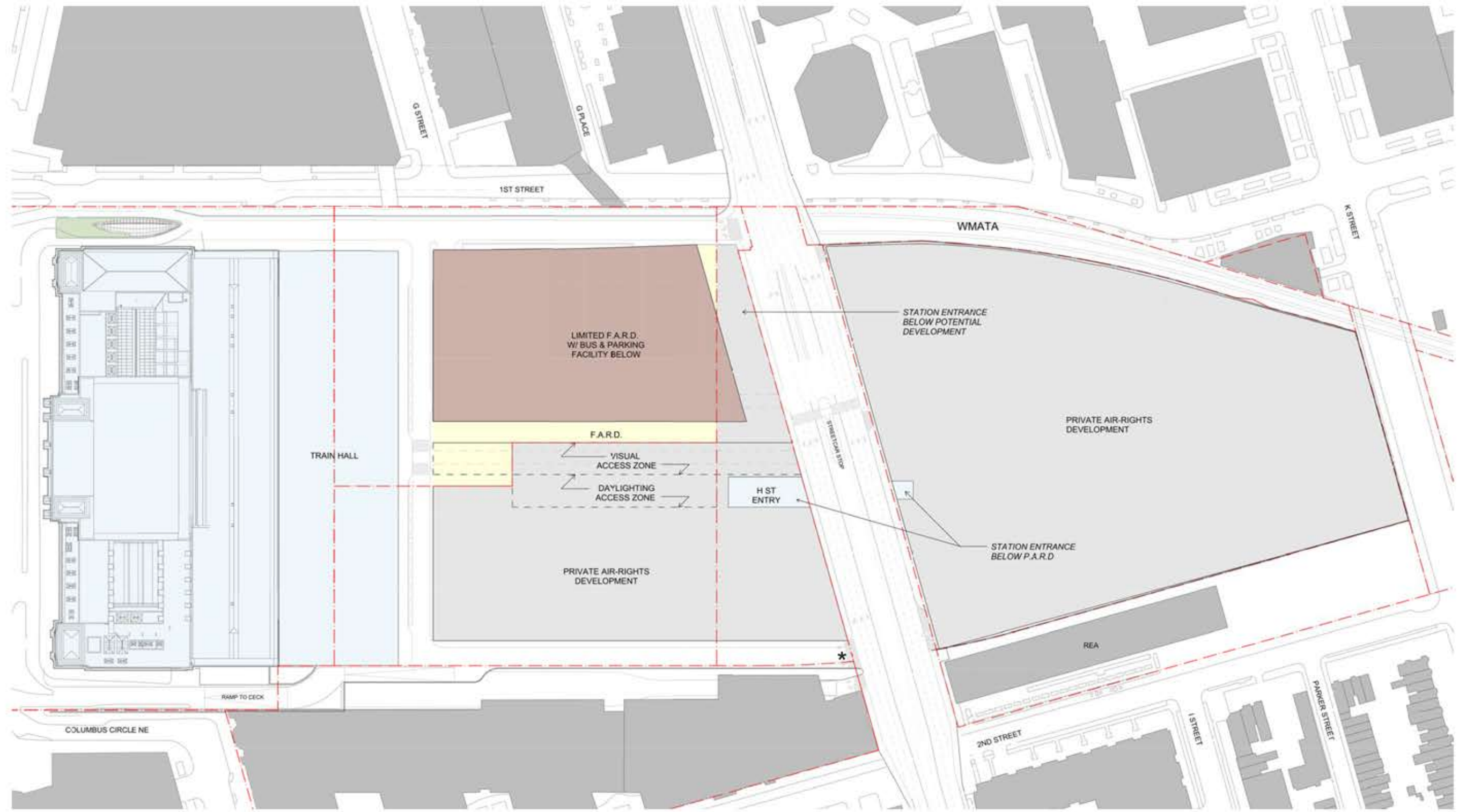
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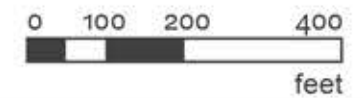


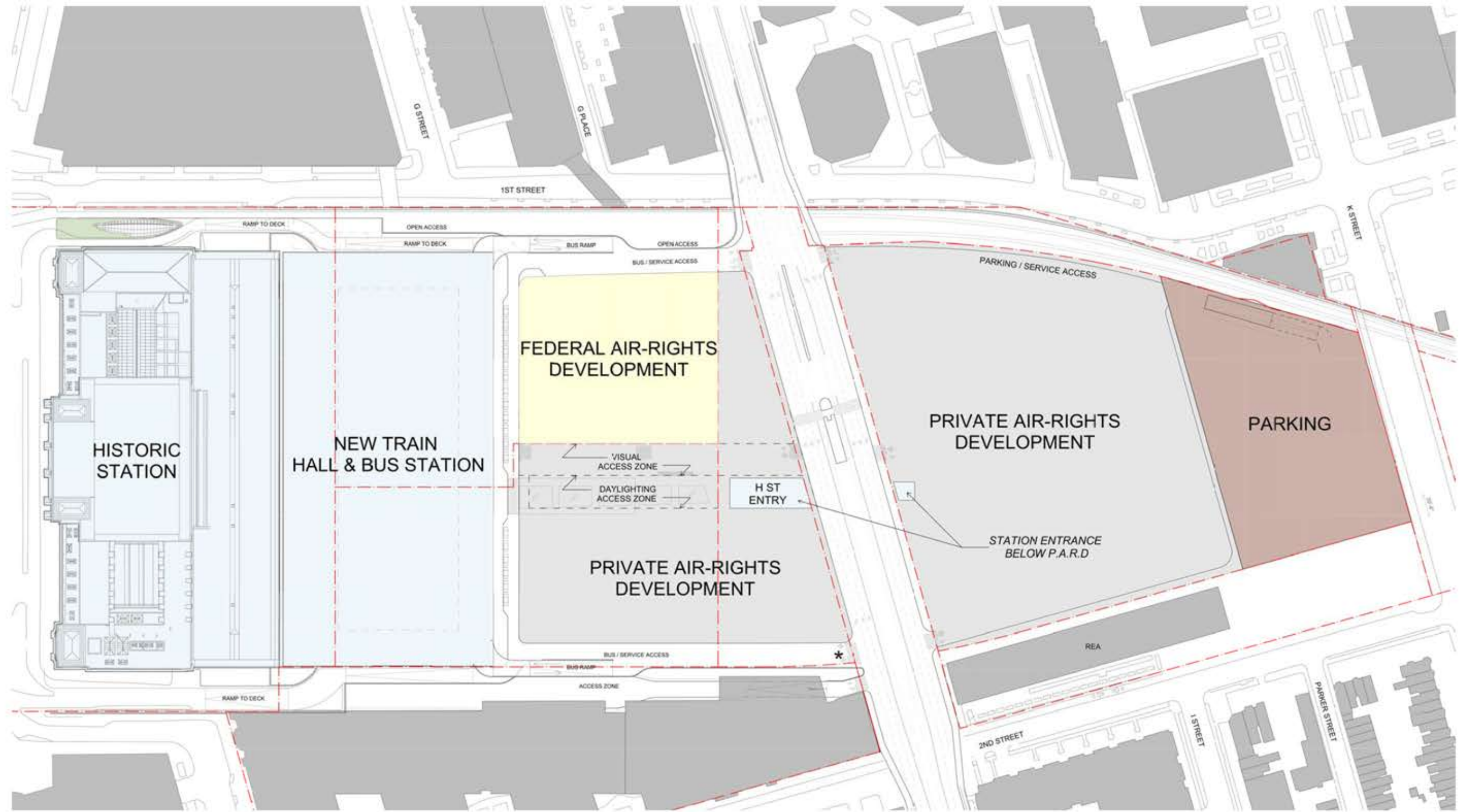
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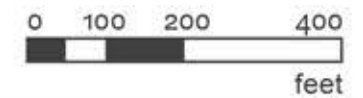


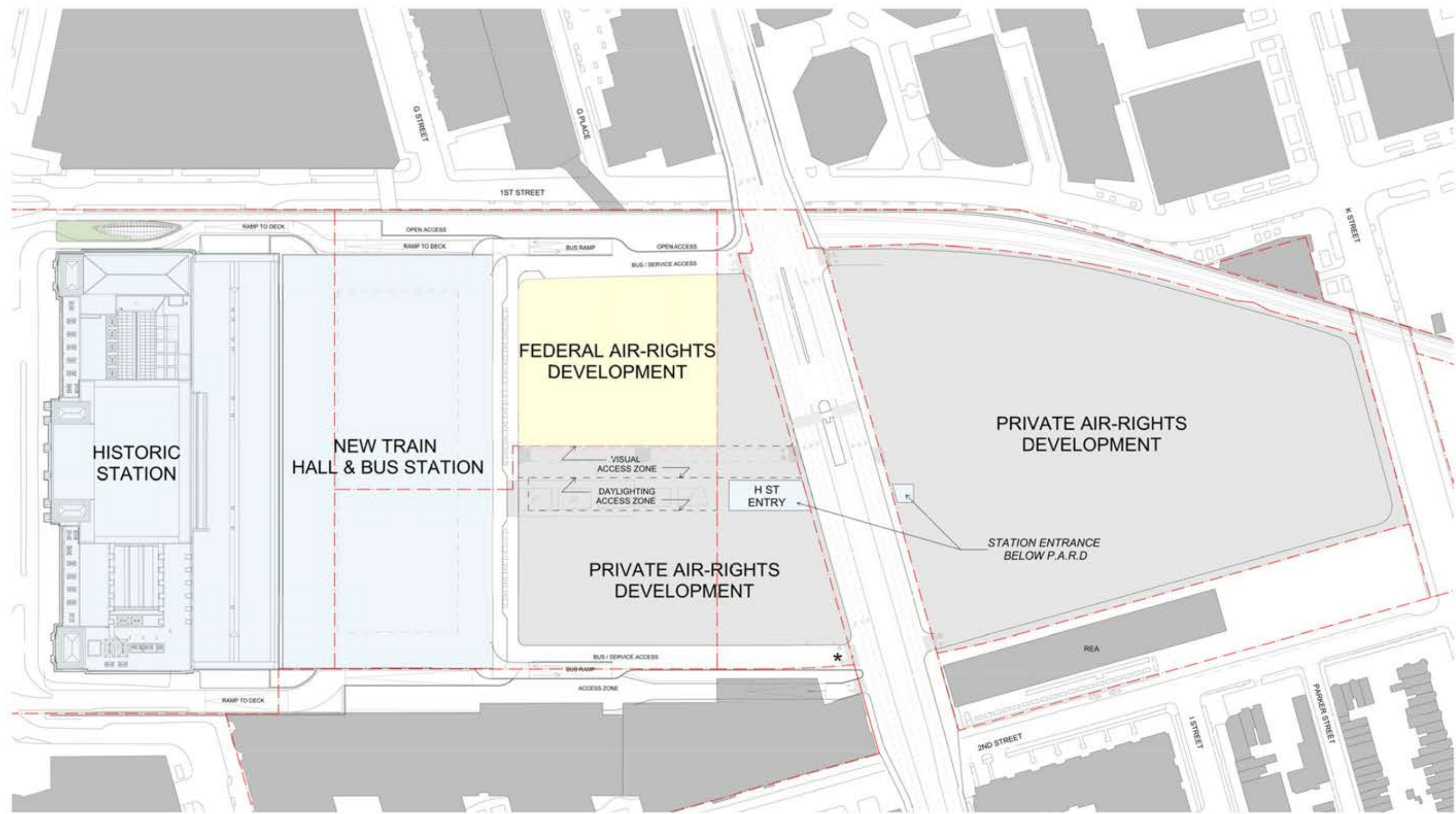
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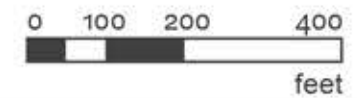


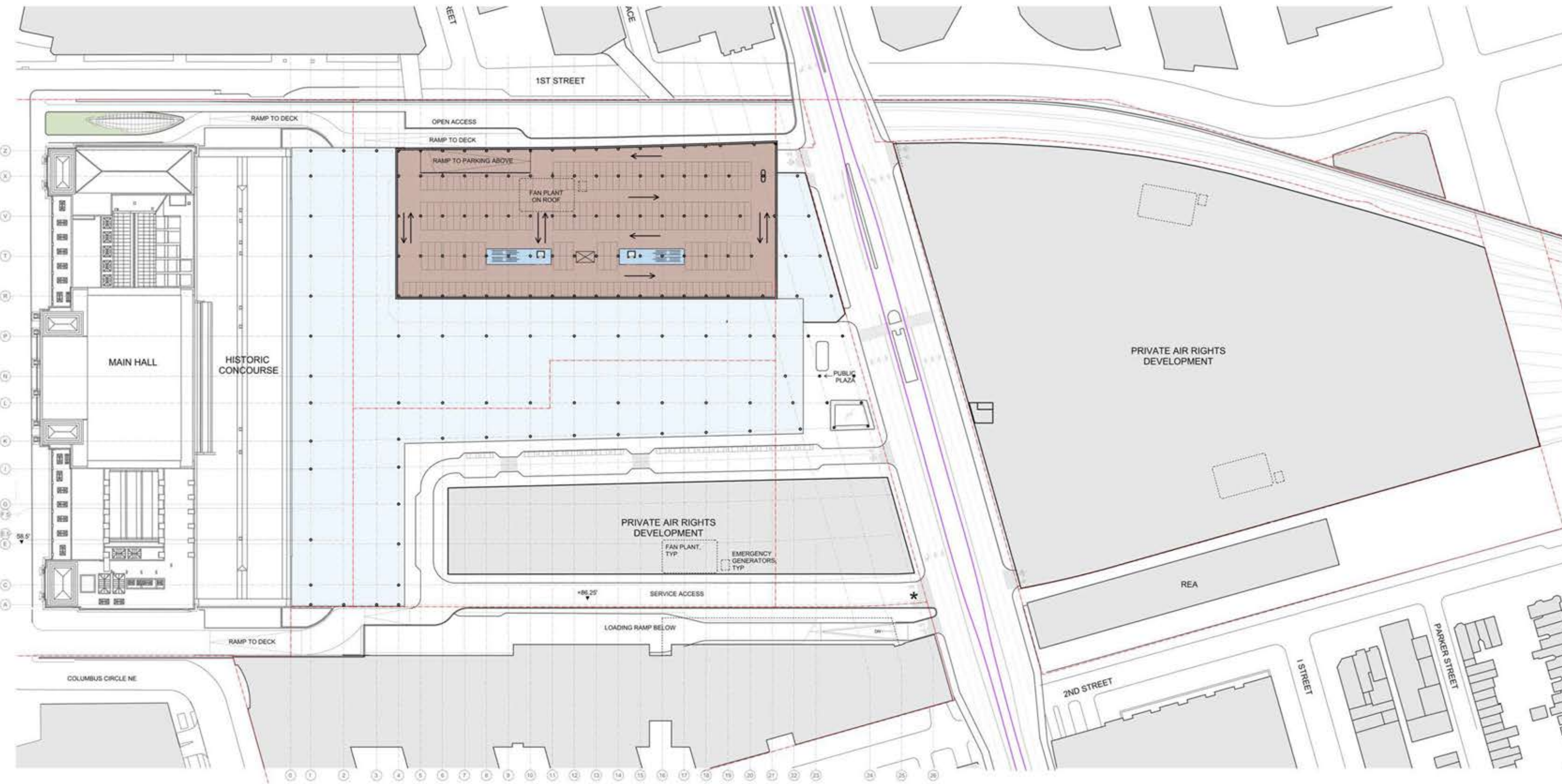
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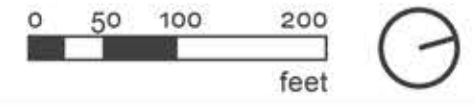


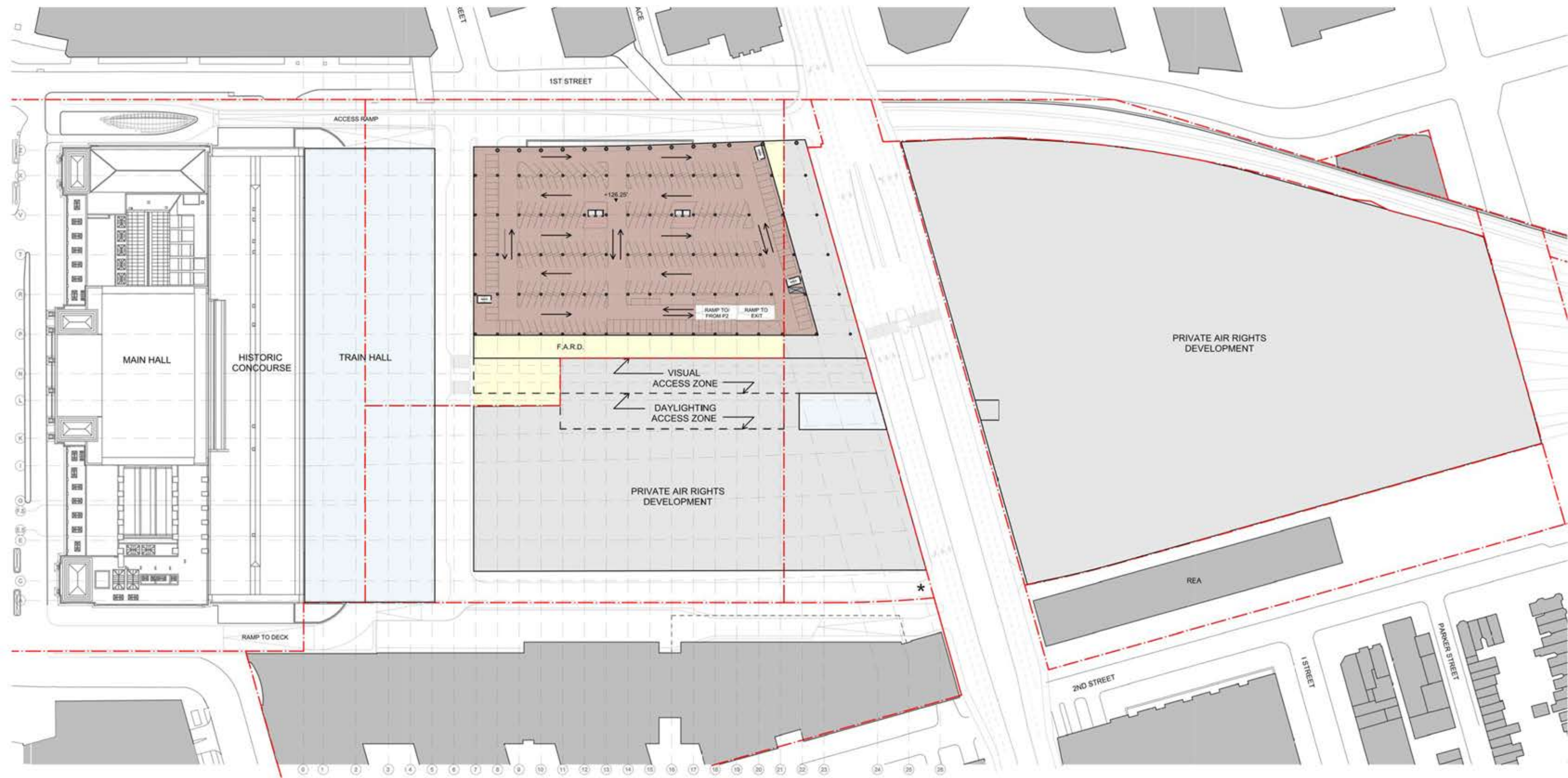


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PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	

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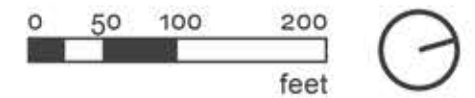


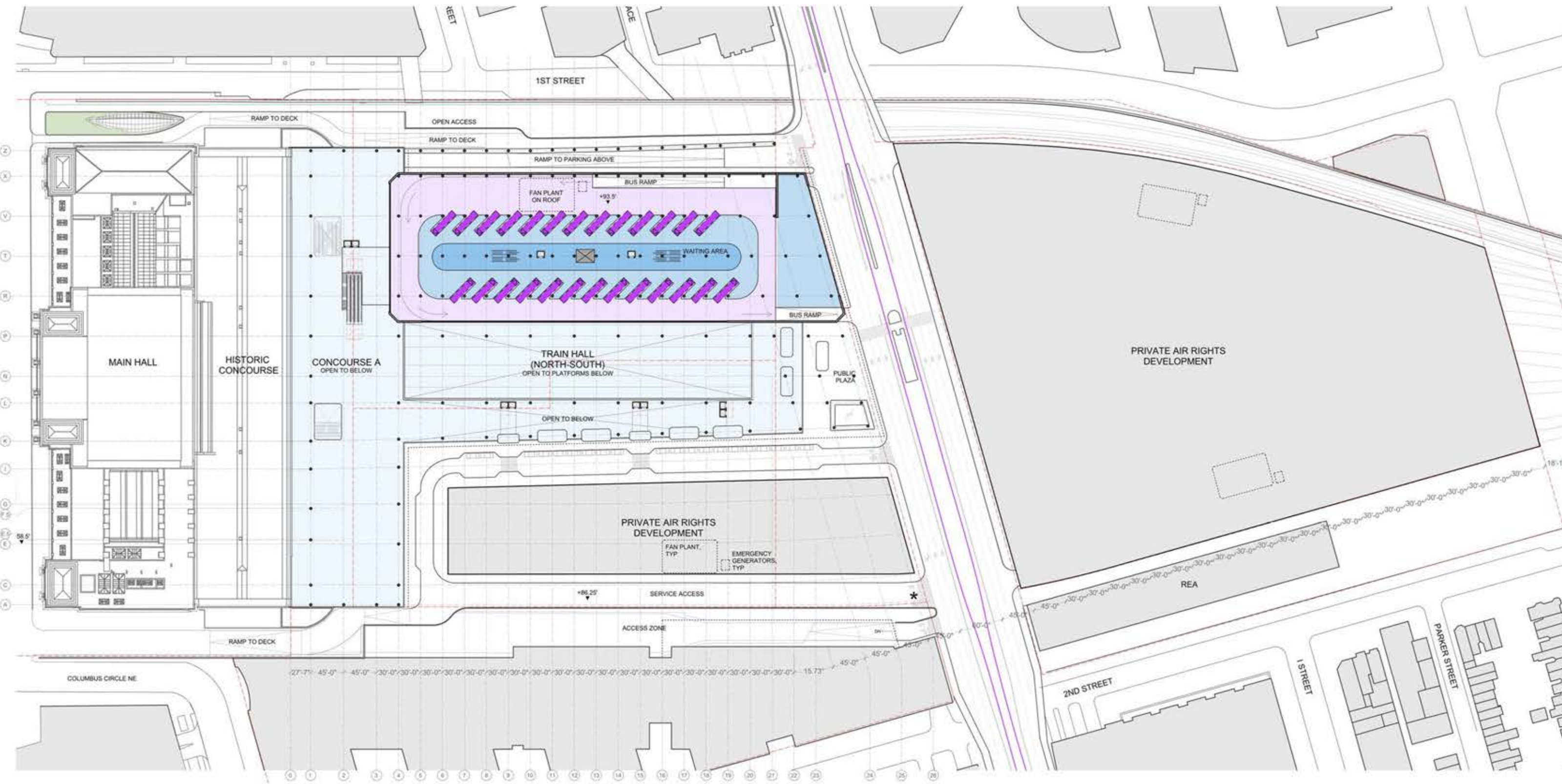


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PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	

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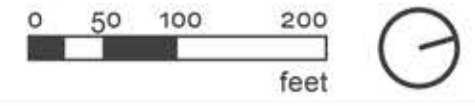


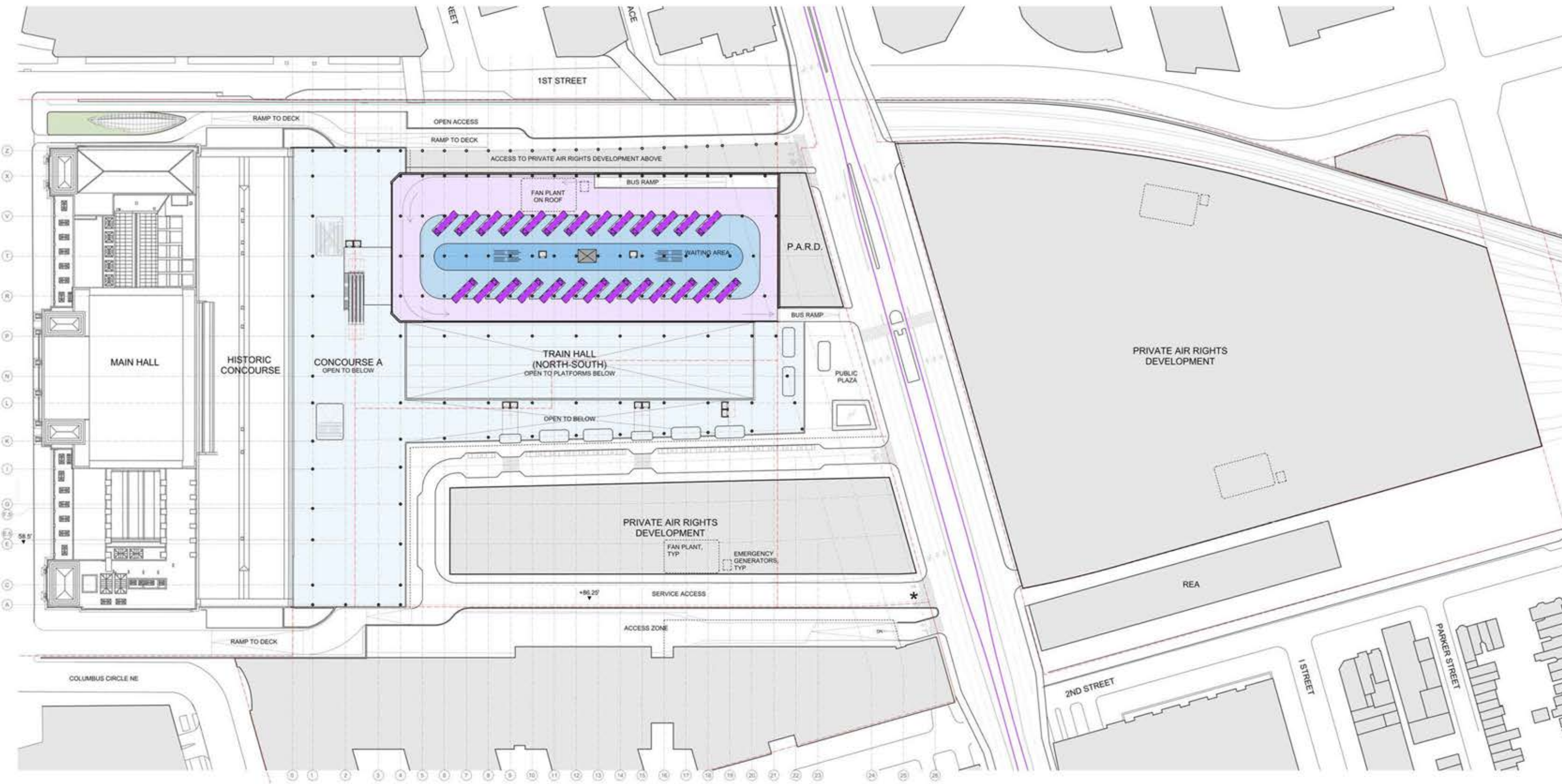


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PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	

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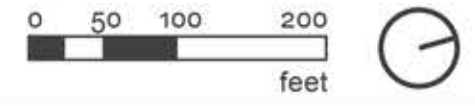


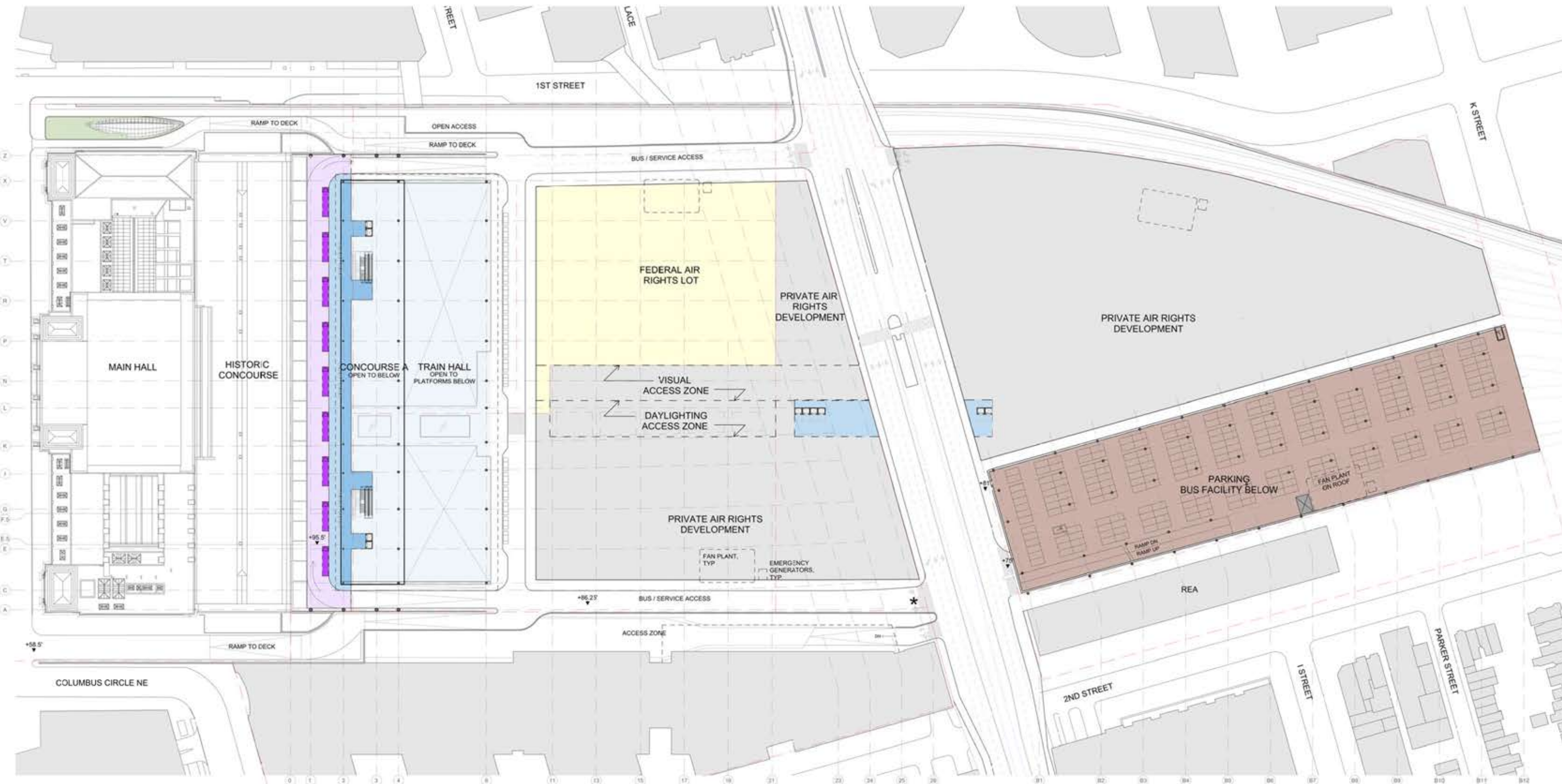


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PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	

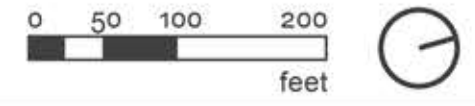
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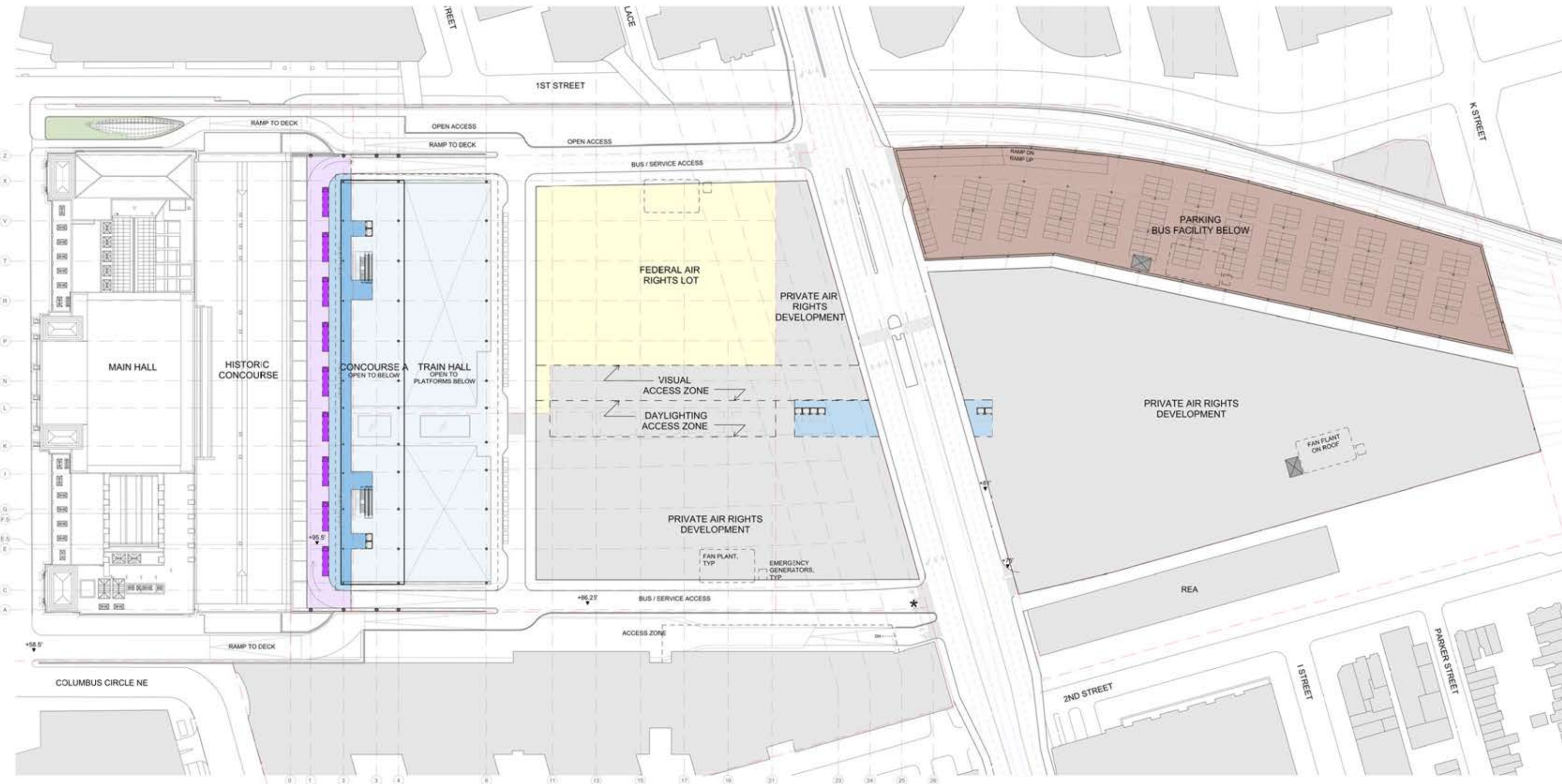




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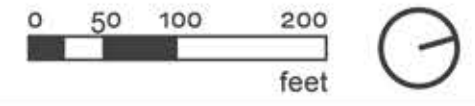


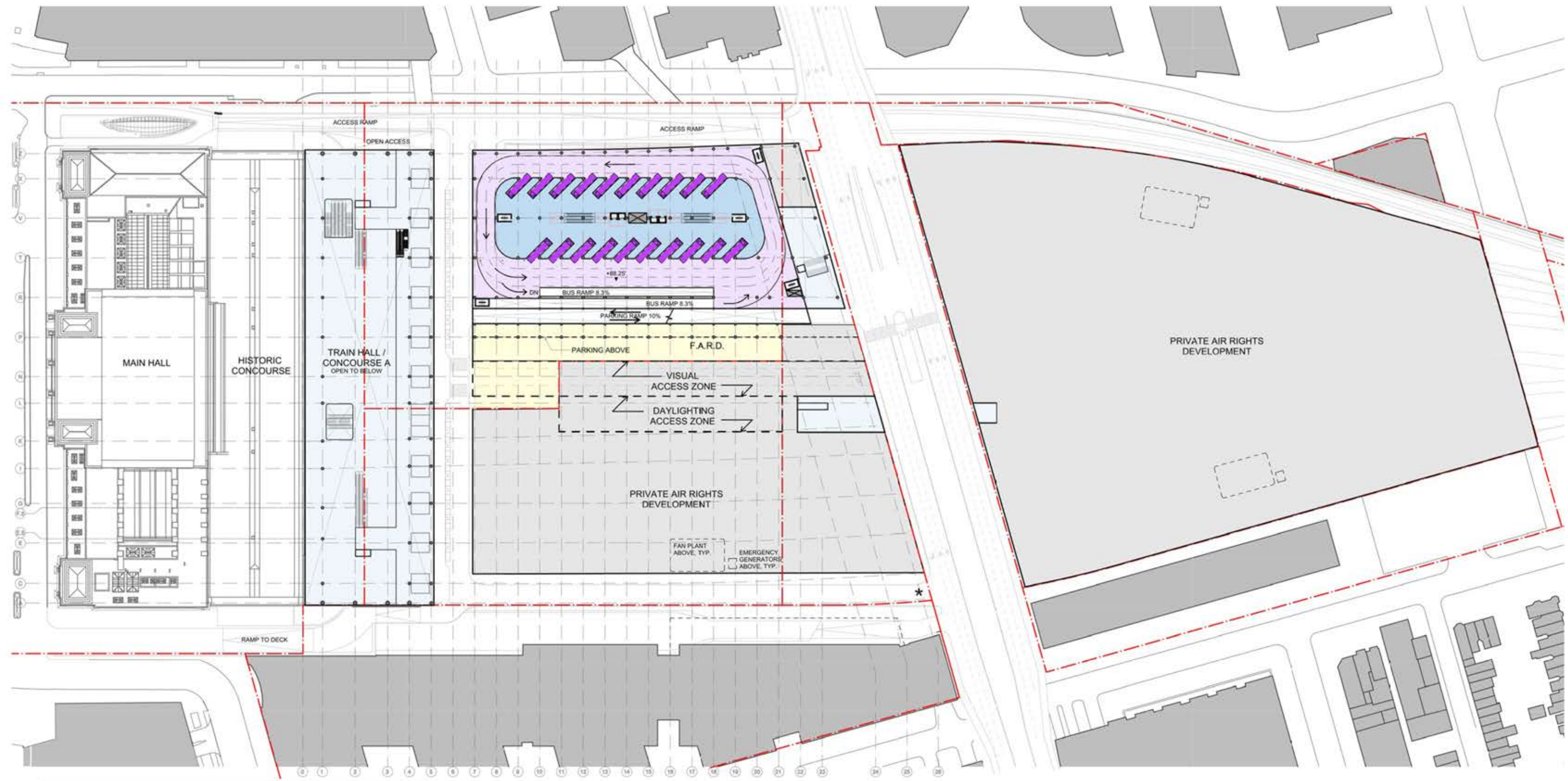


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PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	

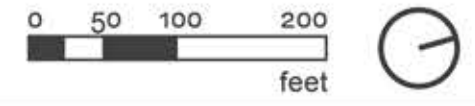
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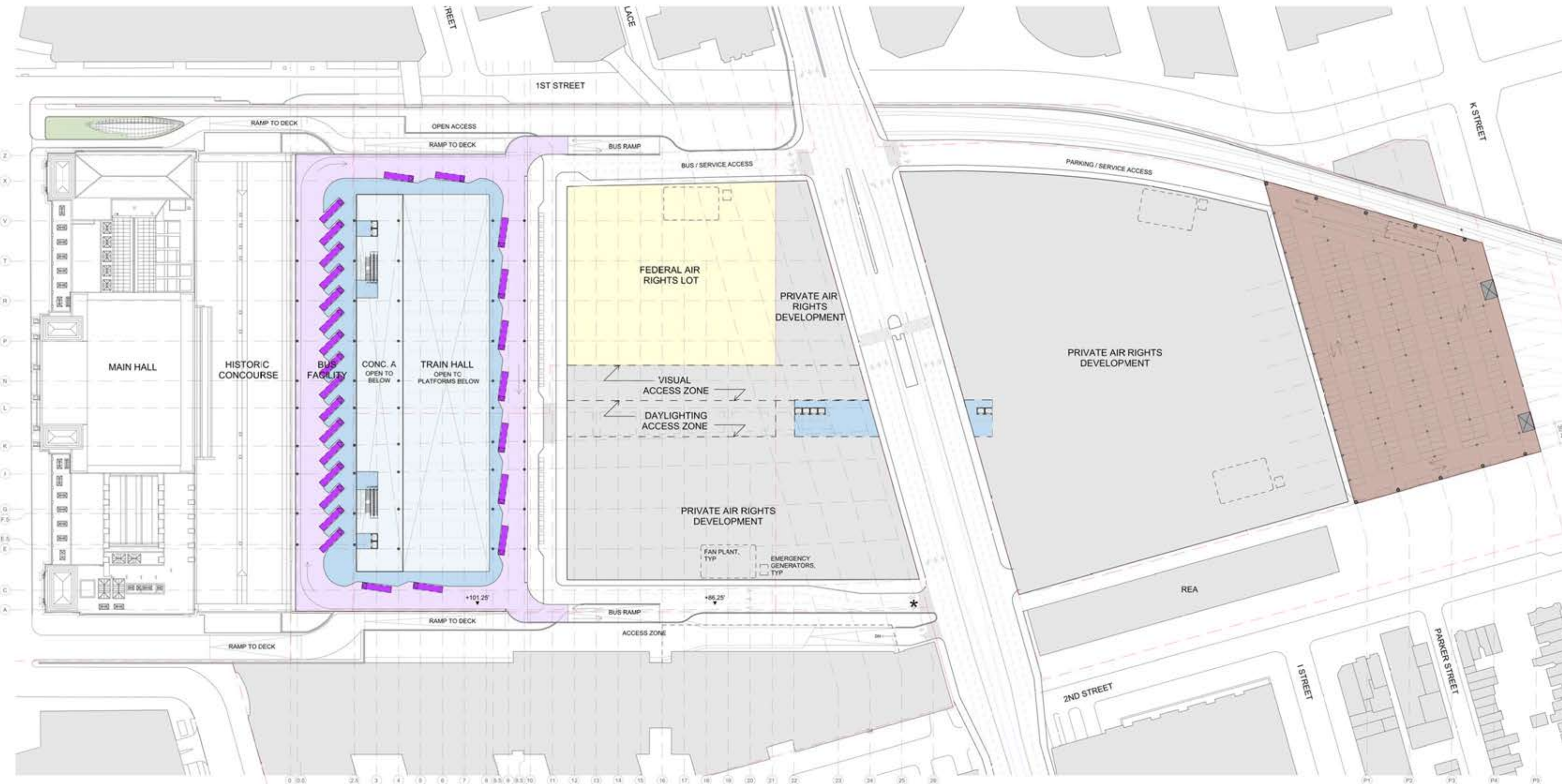




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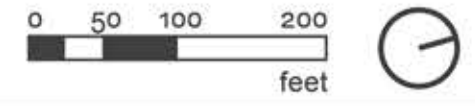


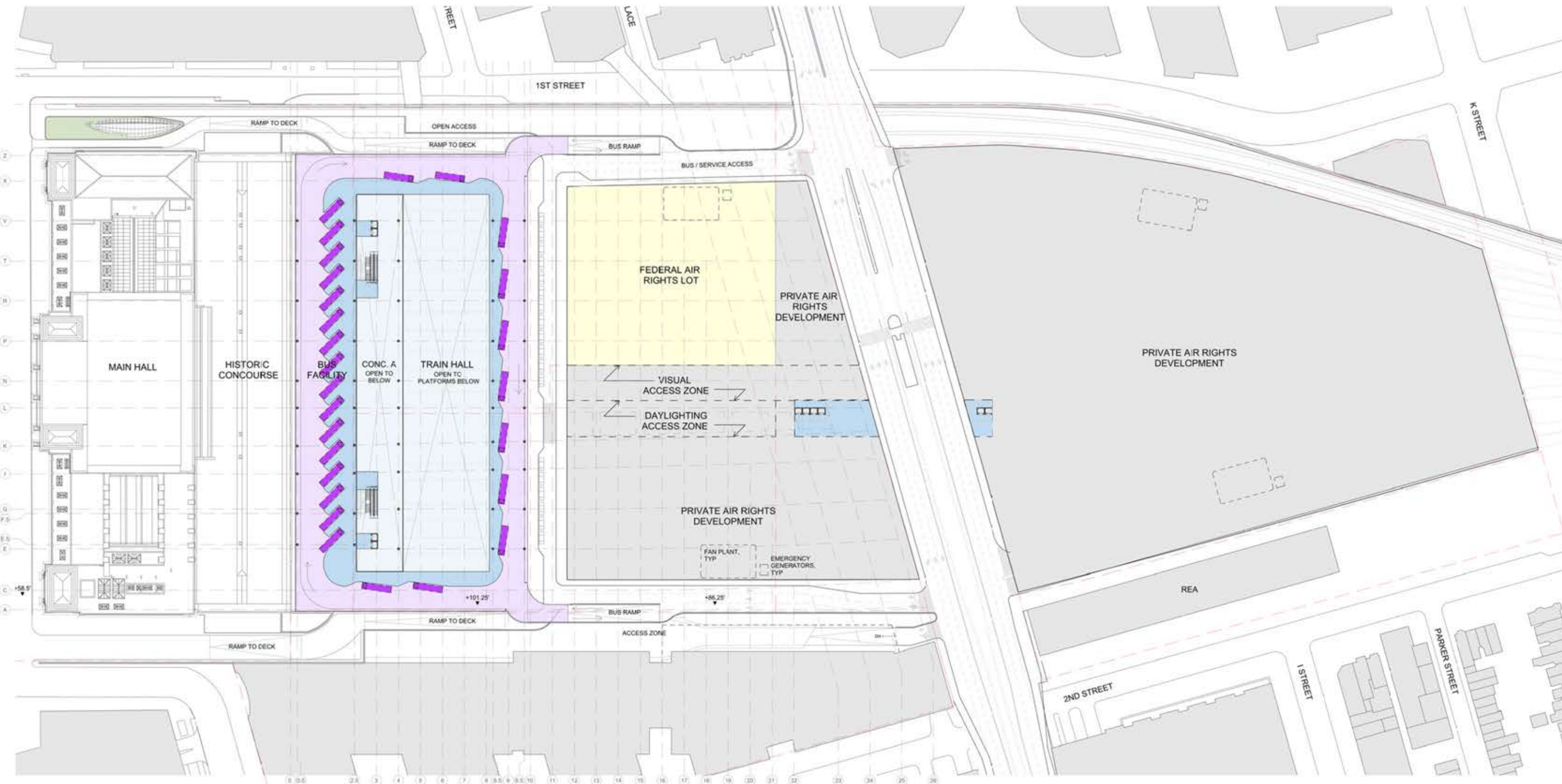


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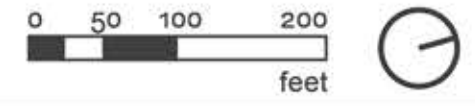
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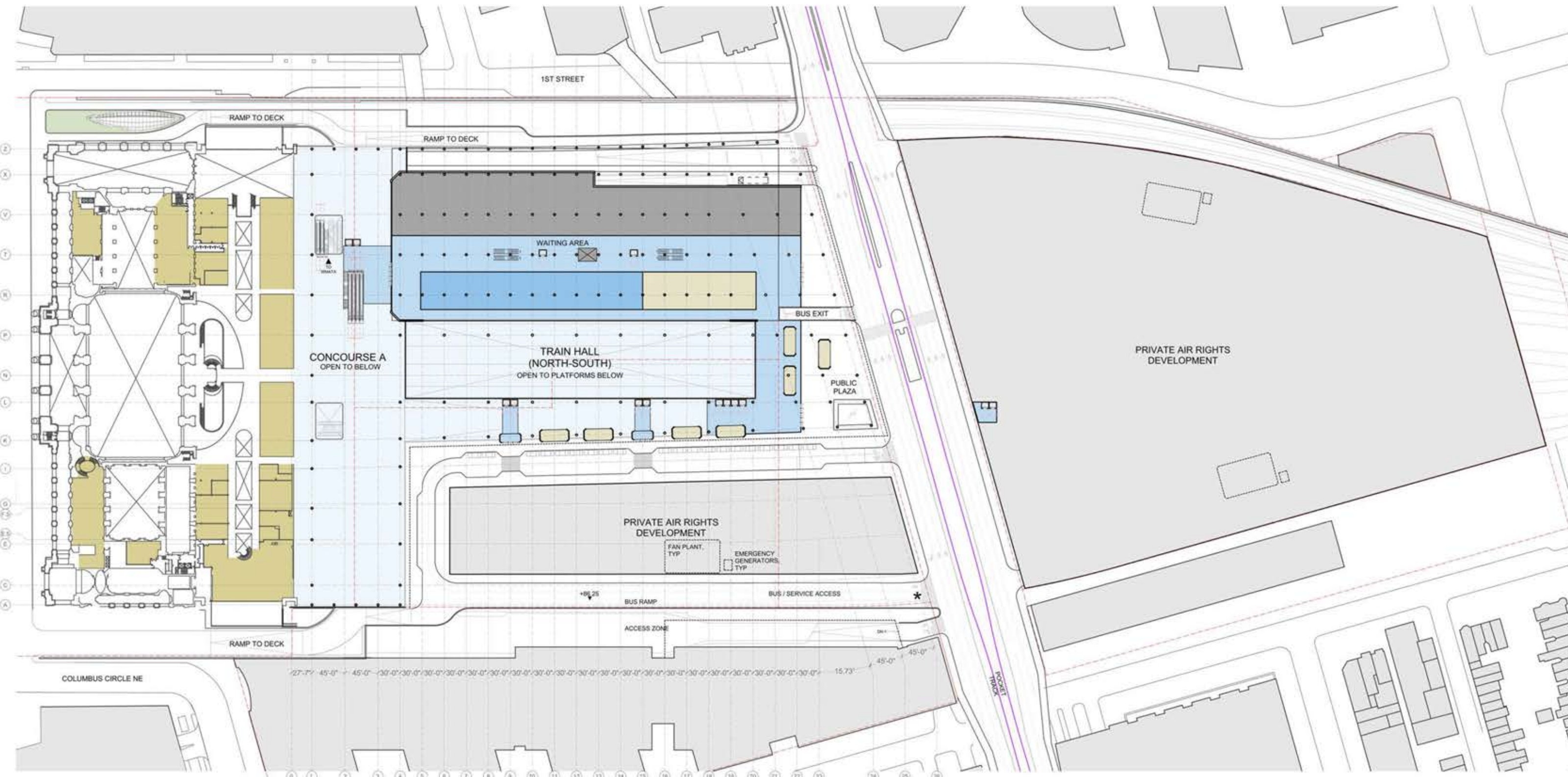




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 PLATFORM	 SERVICE	 FEDERAL AIR RIGHTS DEVELOPMENT AREA
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 PROPOSED RETAIL	 PARKING	

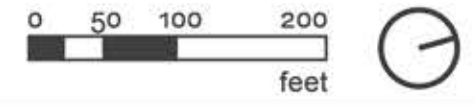


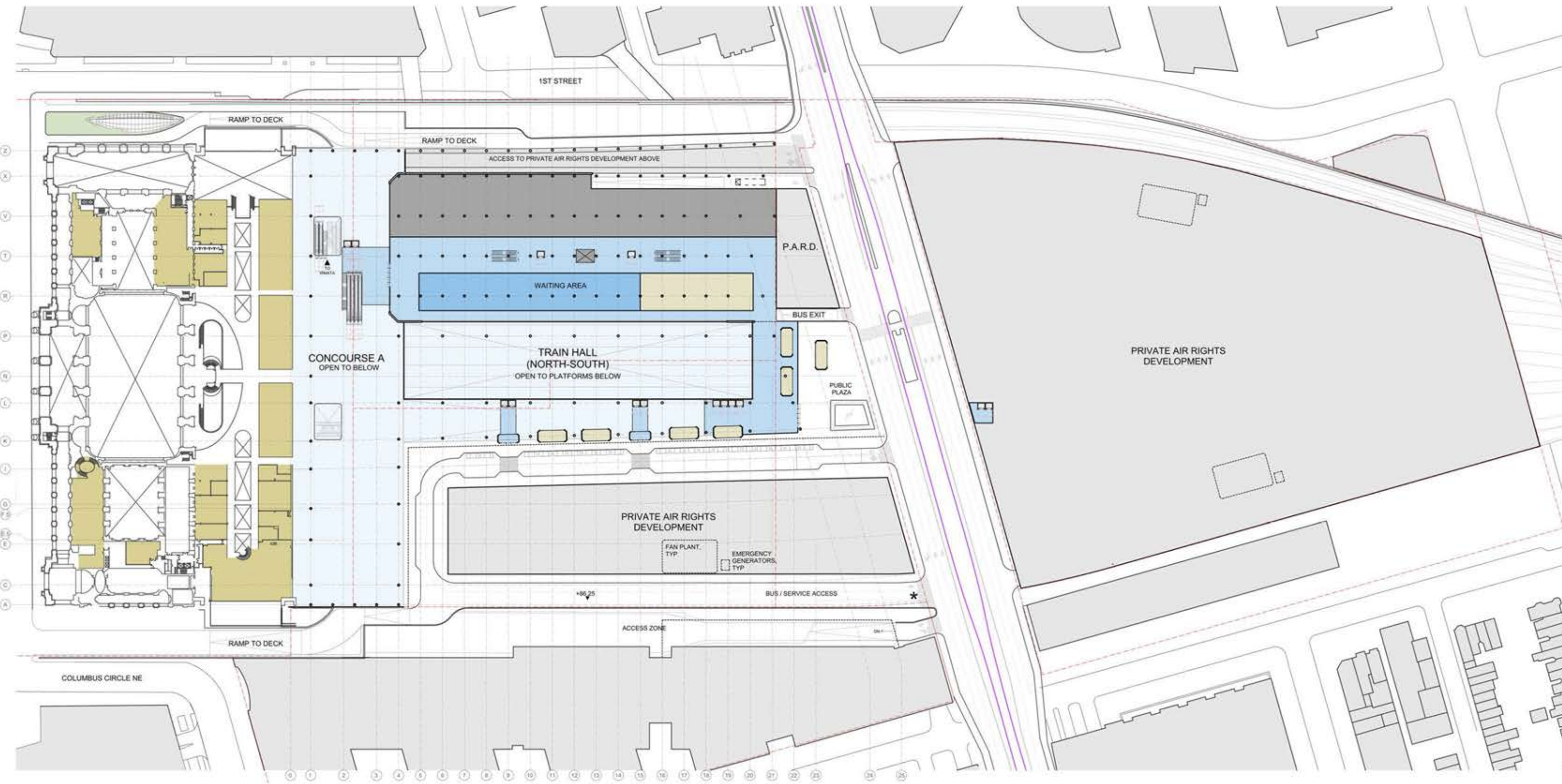


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CONCOURSE / WAITING	BACK OF HOUSE	PRIVATE AIR RIGHTS DEVELOPMENT AREA
PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	

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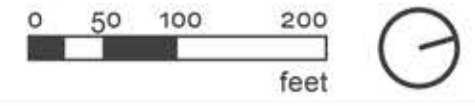


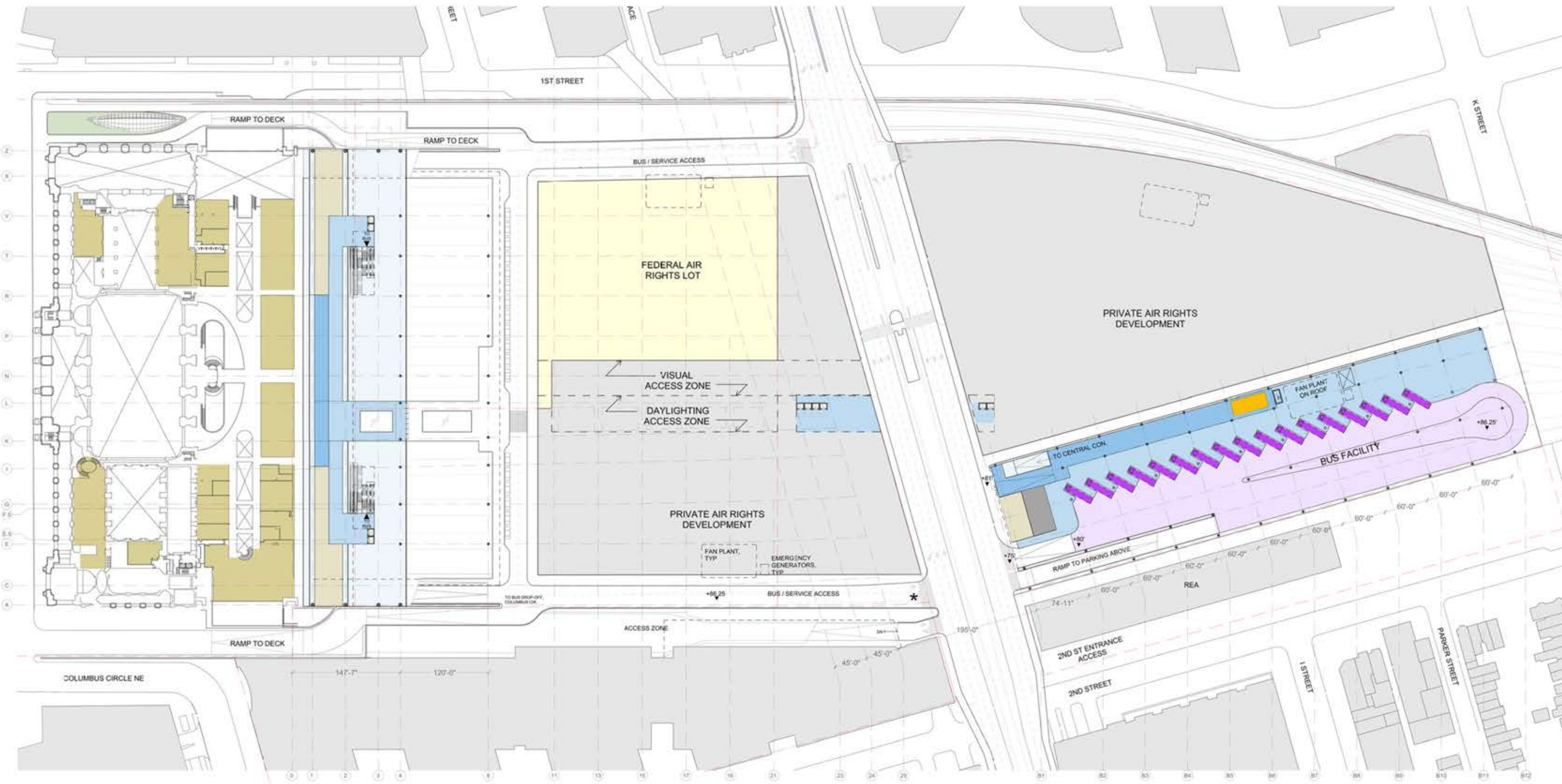


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PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	

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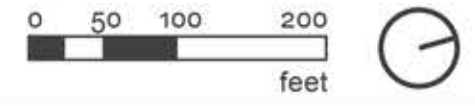


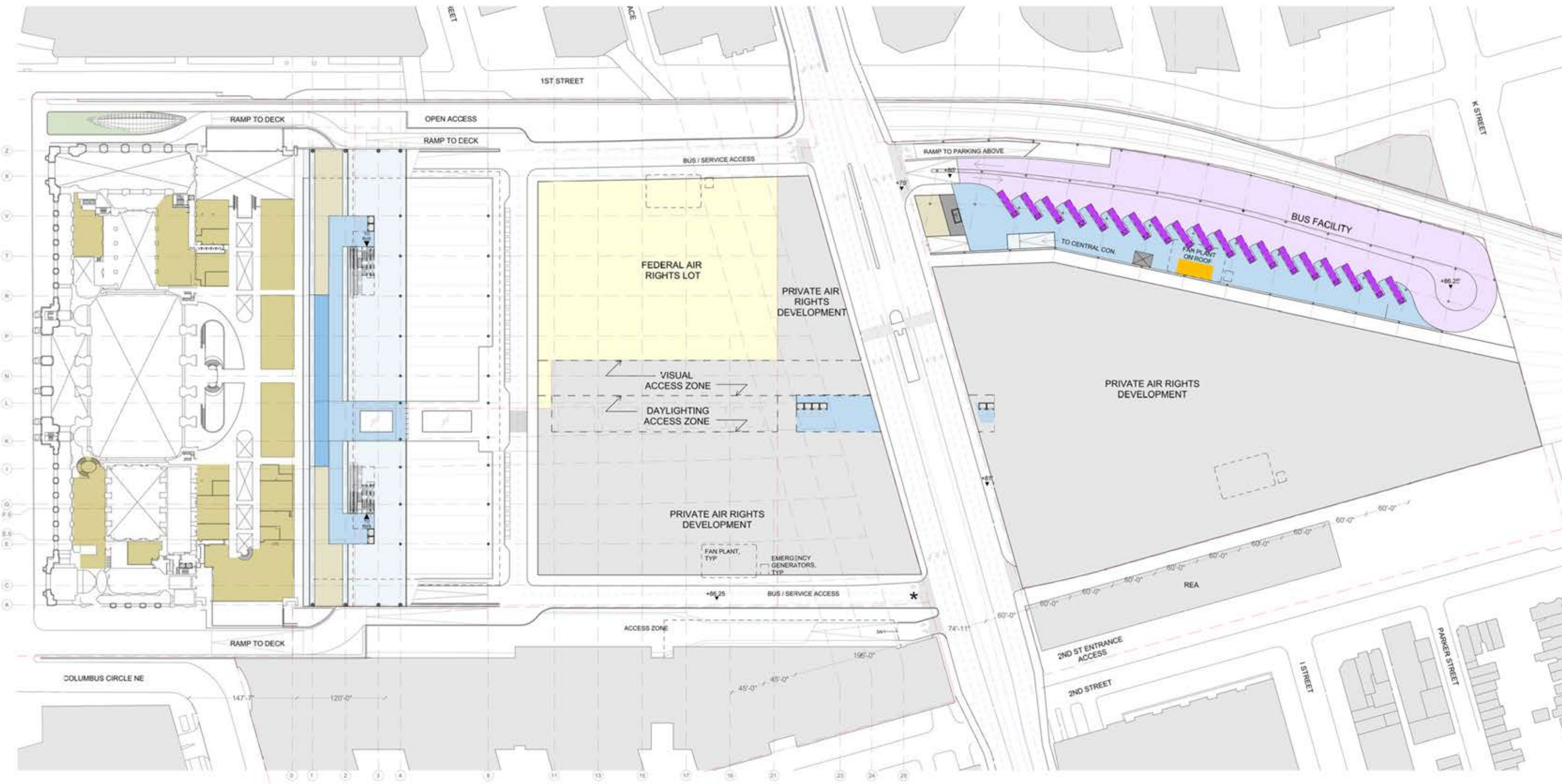


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PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	

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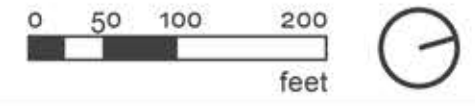


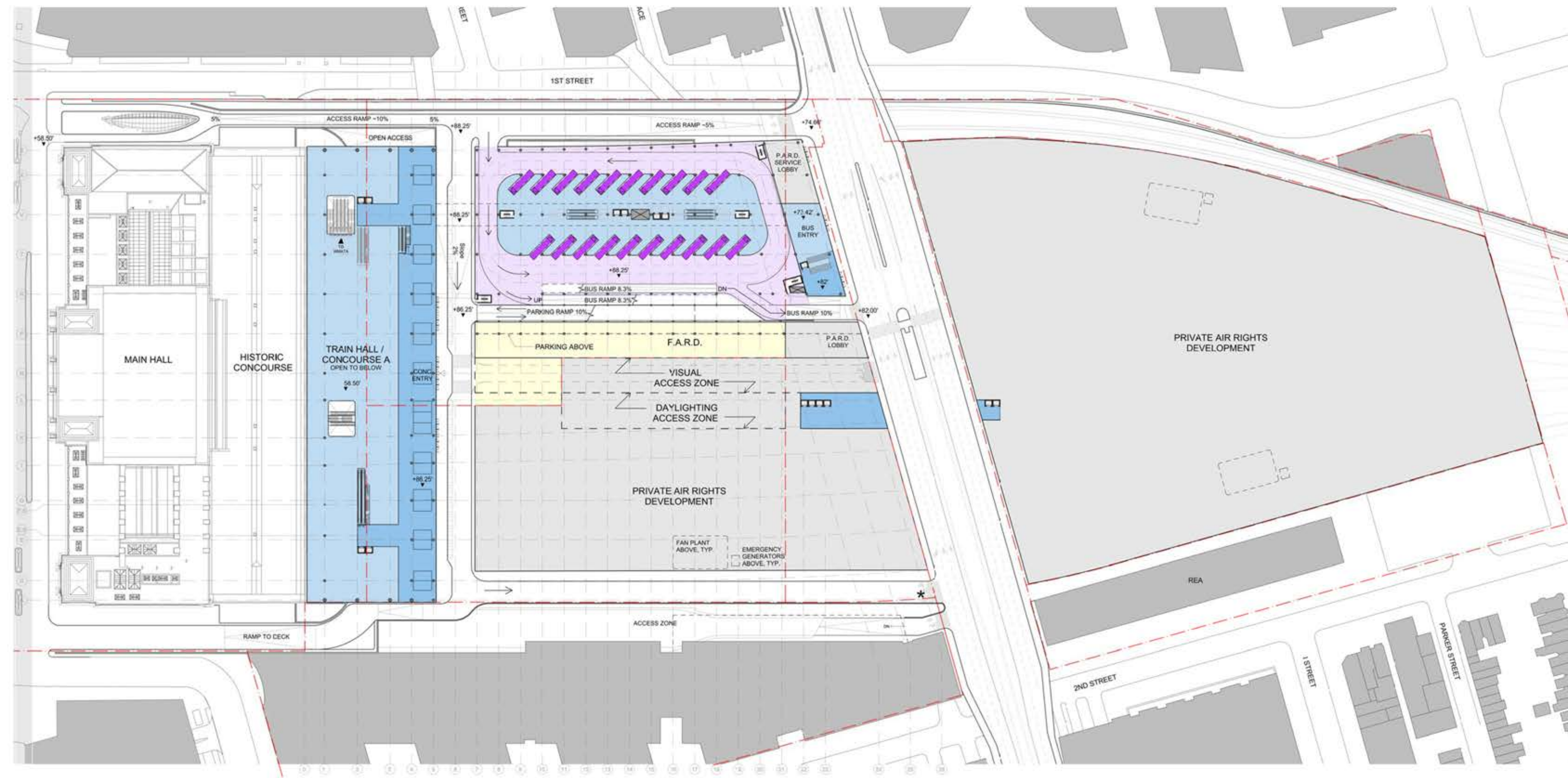


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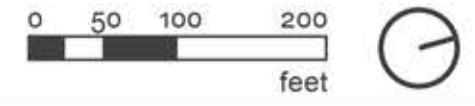


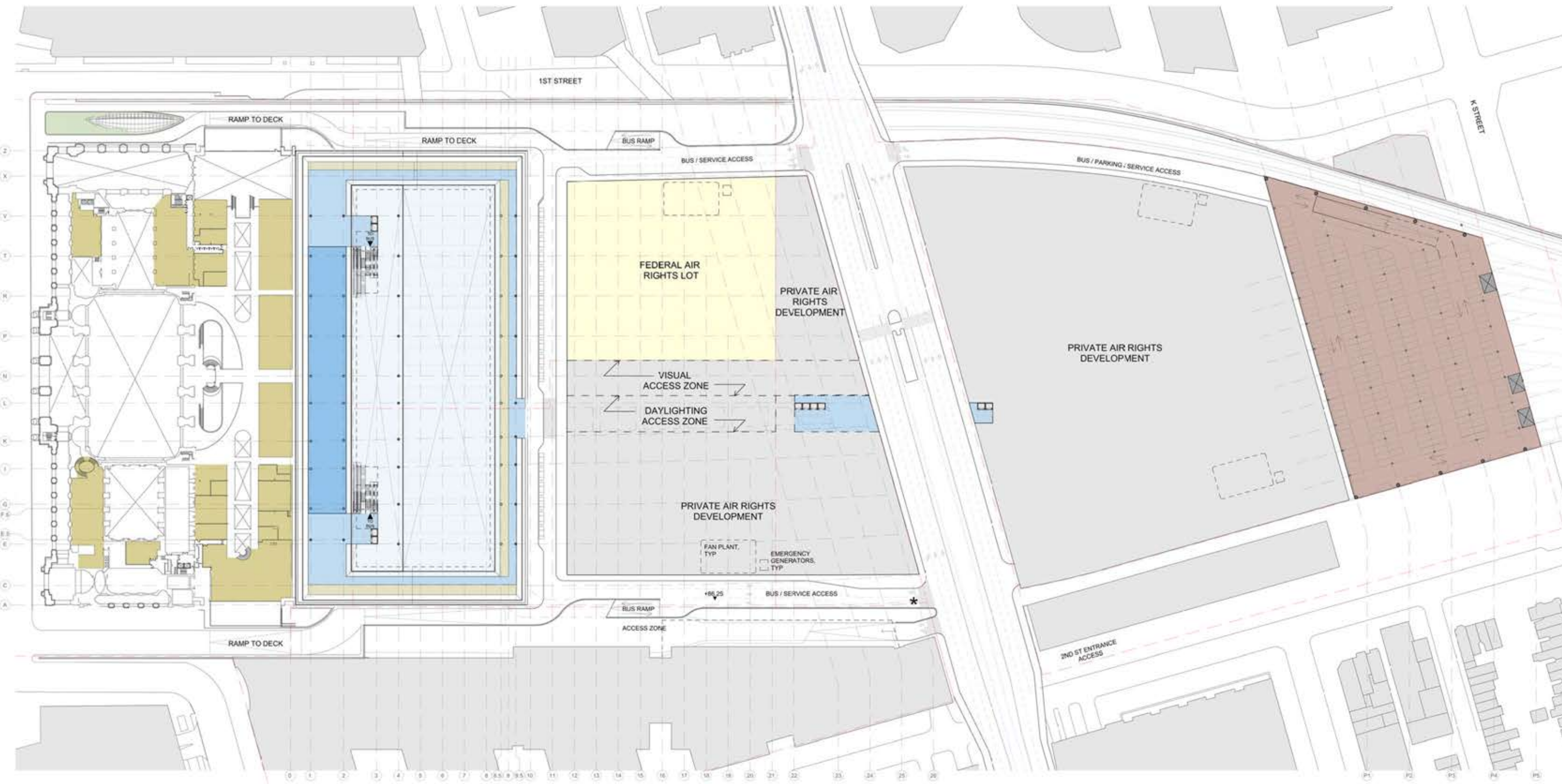


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 PLATFORM	 SERVICE	 FEDERAL AIR RIGHTS DEVELOPMENT AREA
 EXISTING RETAIL	 BUSWAY	
 PROPOSED RETAIL	 PARKING	

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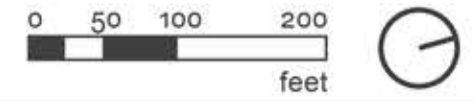


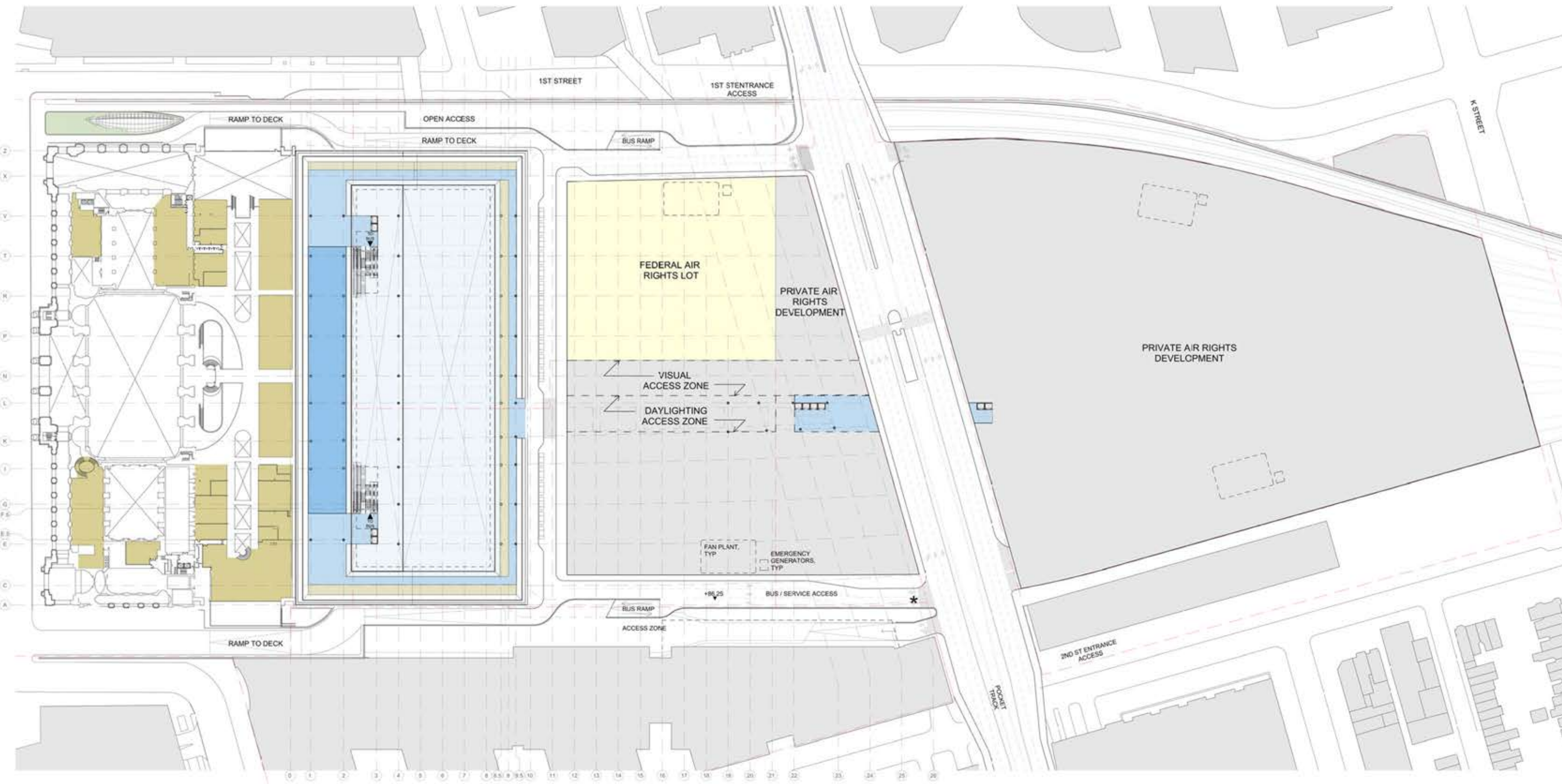


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PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	

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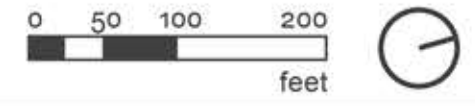


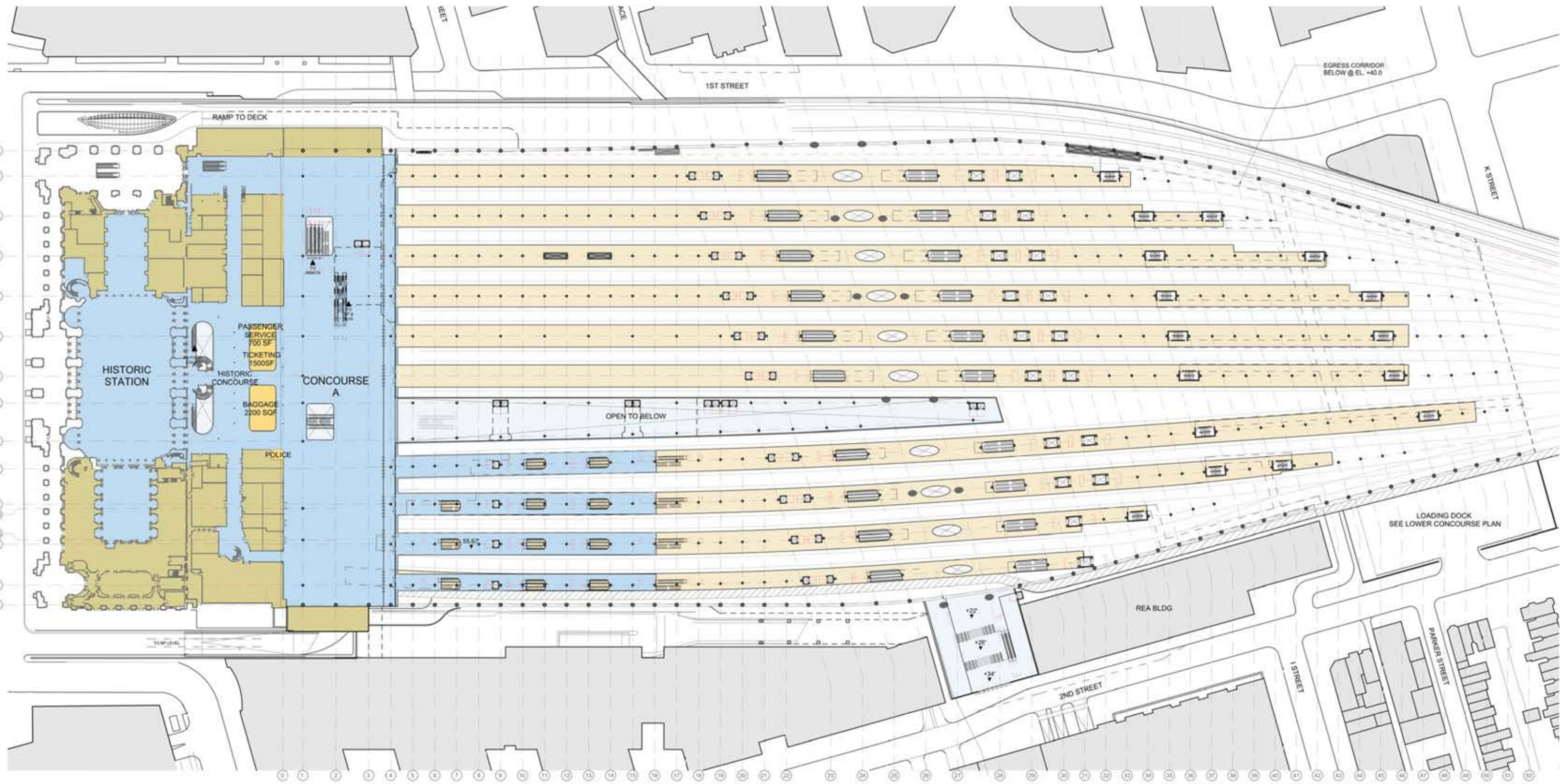


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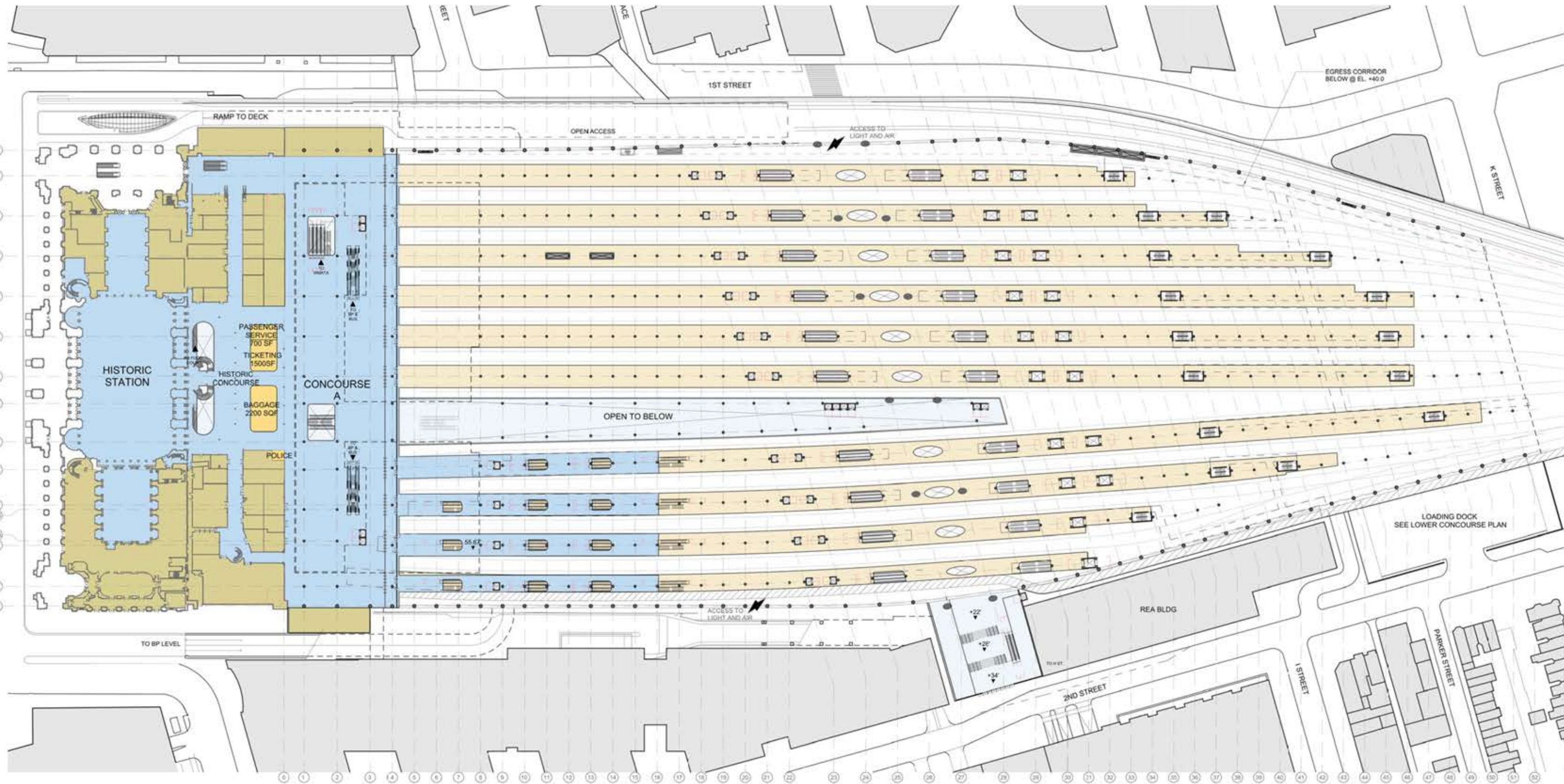
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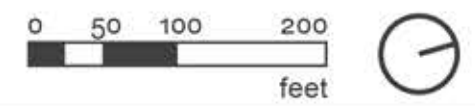
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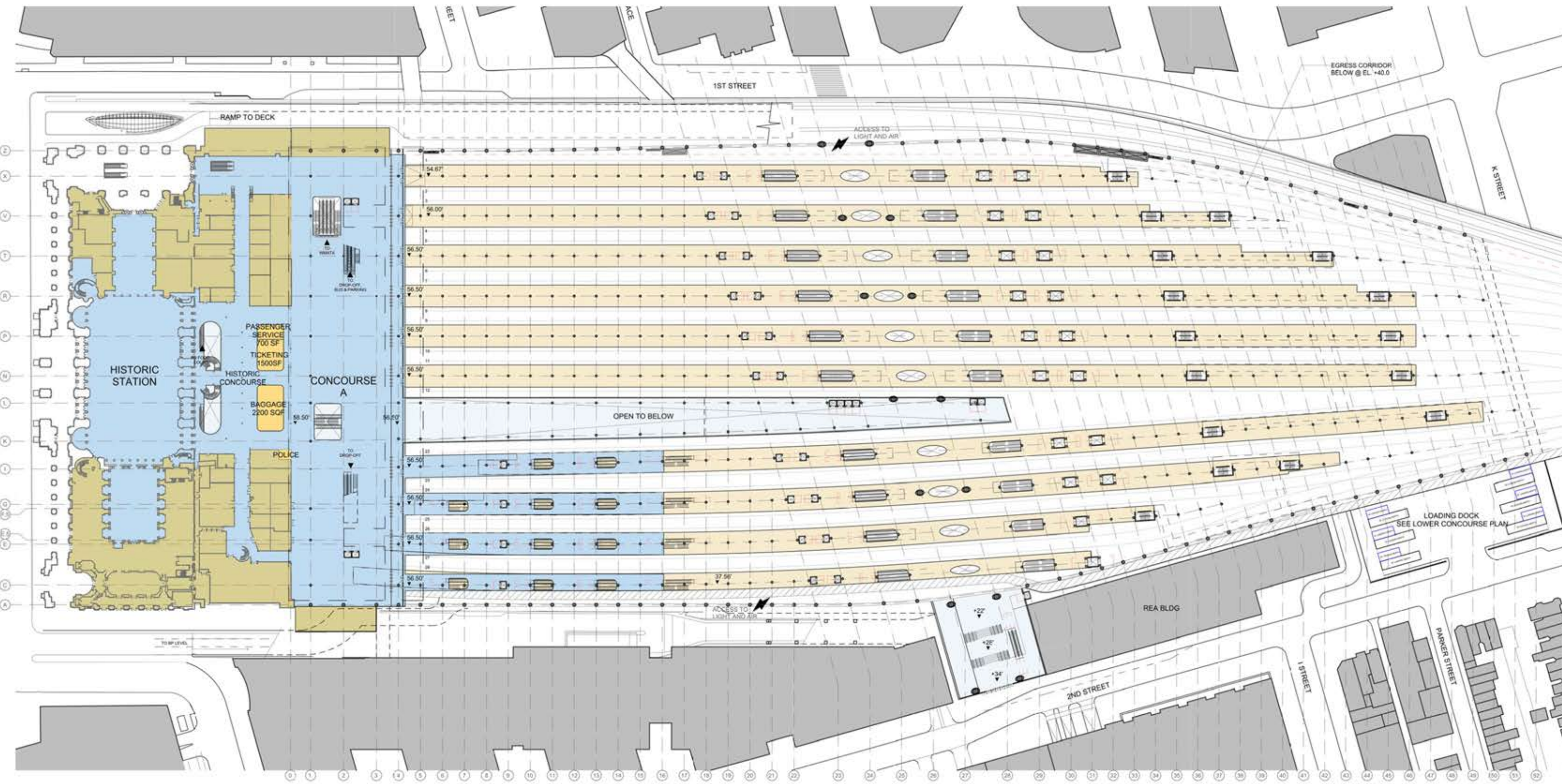
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PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	



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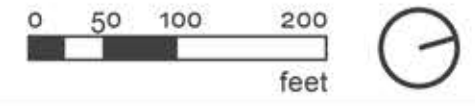
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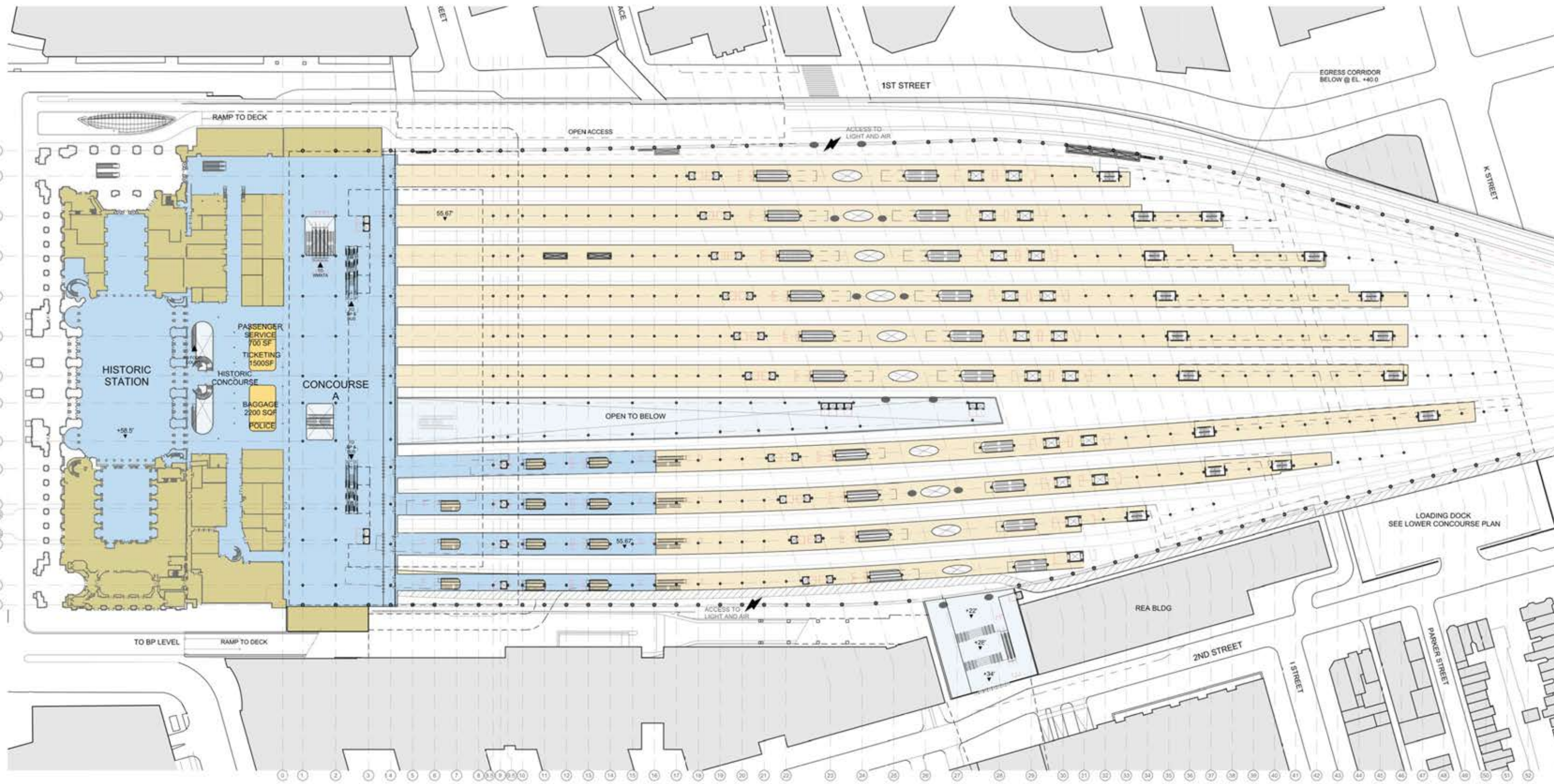




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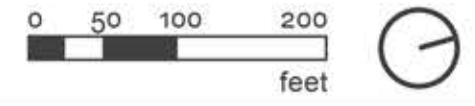
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	PROPOSED RETAIL		PARKING		





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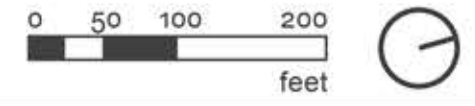
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	PROPOSED RETAIL		PARKING		





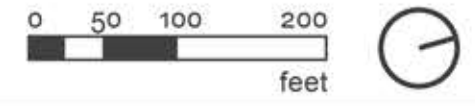
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CONCOURSE / WAITING	BACK OF HOUSE	PRIVATE AIR RIGHTS DEVELOPMENT AREA
PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	





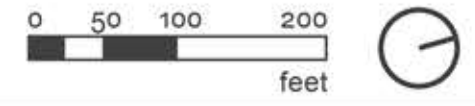
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	PLATFORM		FEDERAL AIR RIGHTS DEVELOPMENT AREA
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	PROPOSED RETAIL		SERVICE
			BUSWAY
			PARKING

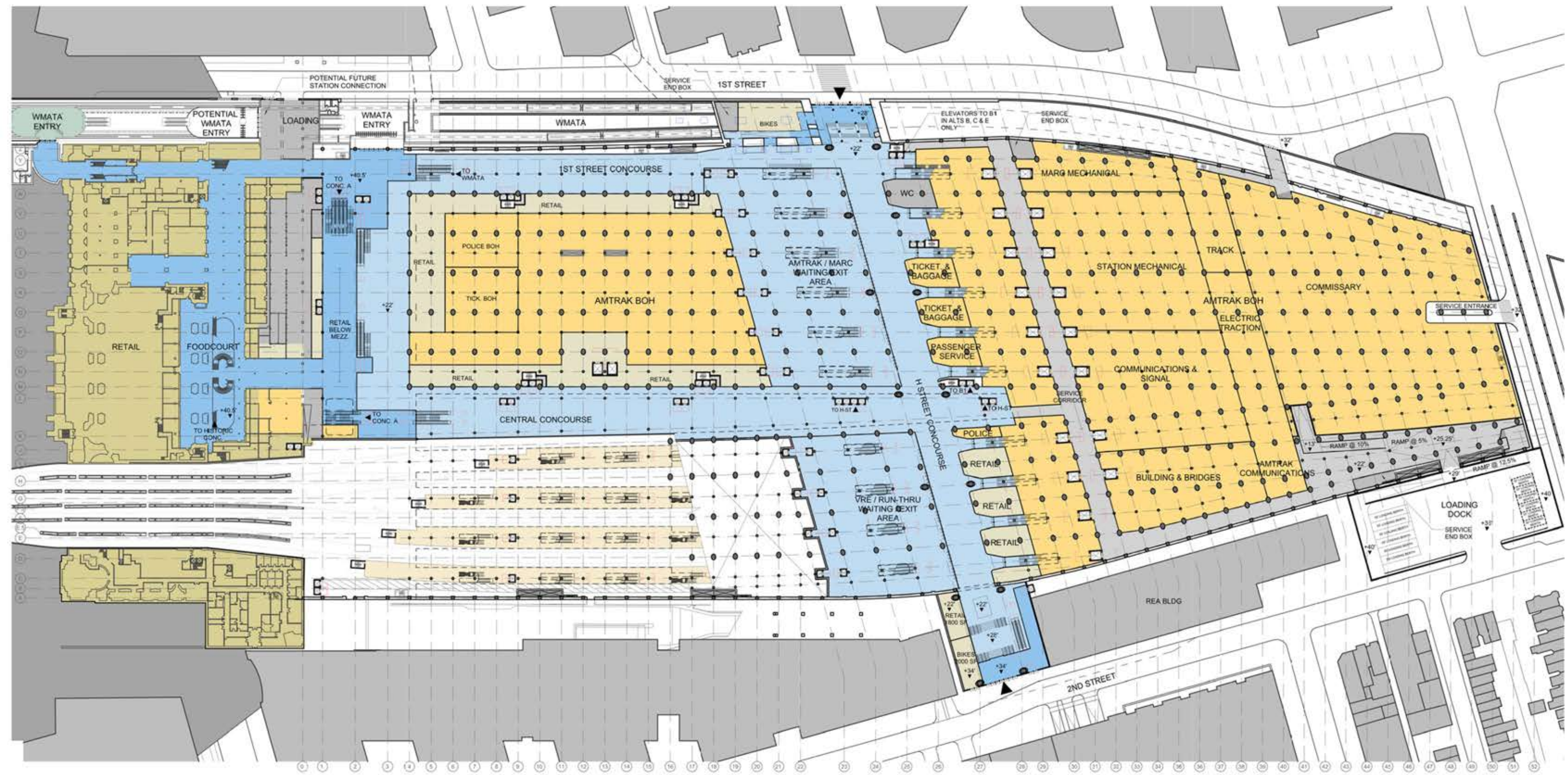




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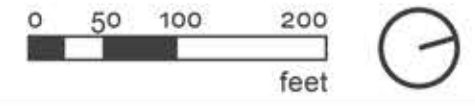
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	PROPOSED RETAIL		PARKING		





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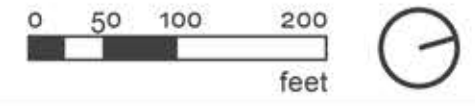
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	PLATFORM		SERVICE		FEDERAL AIR RIGHTS DEVELOPMENT AREA
	EXISTING RETAIL		BUSWAY		
	PROPOSED RETAIL		PARKING		





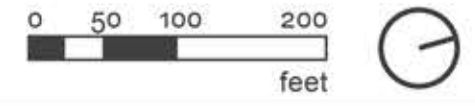
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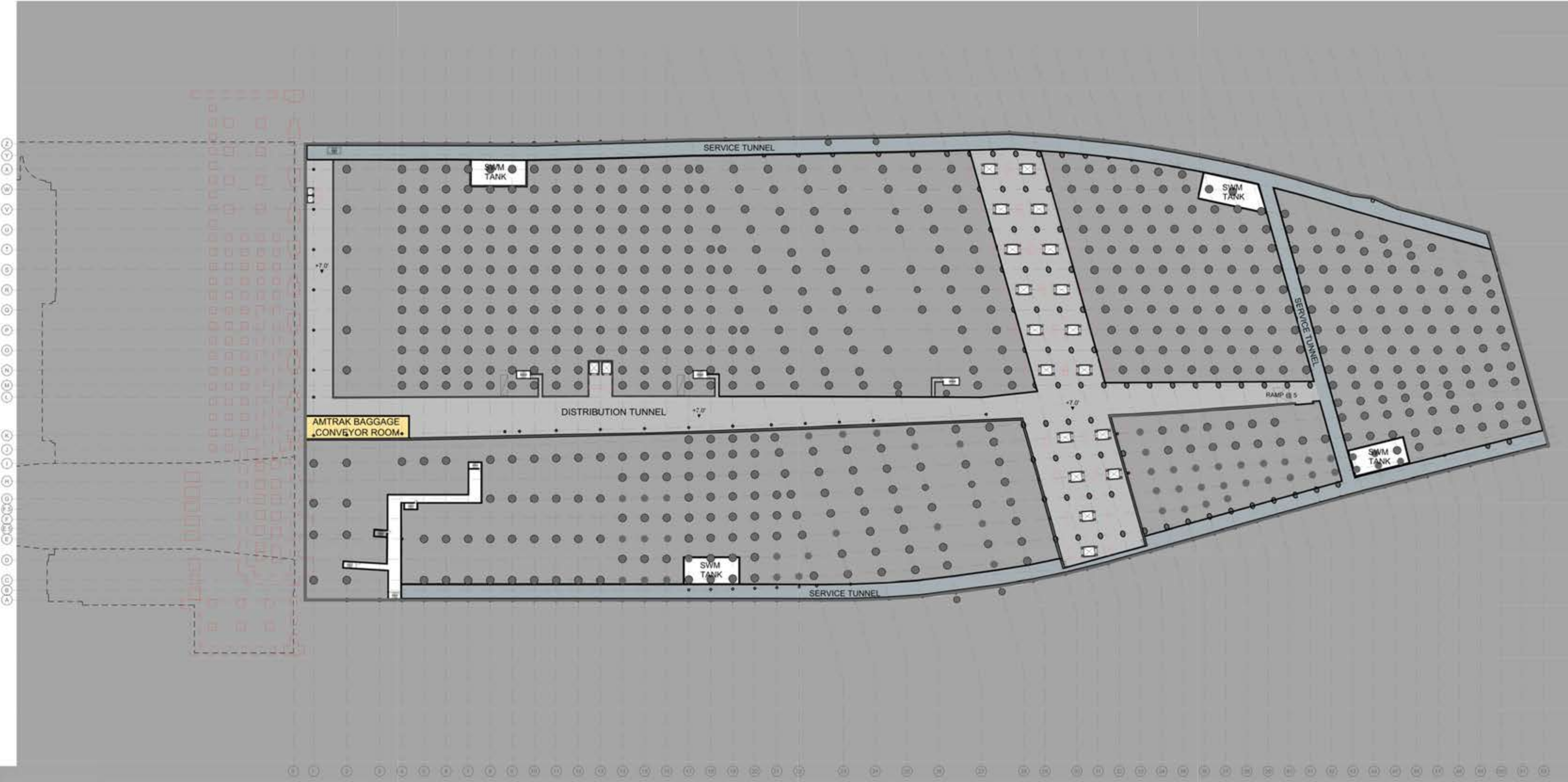
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PLATFORM	SERVICE	FEDERAL AIR RIGHTS DEVELOPMENT AREA
EXISTING RETAIL	BUSWAY	
PROPOSED RETAIL	PARKING	





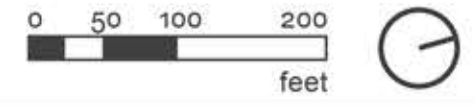
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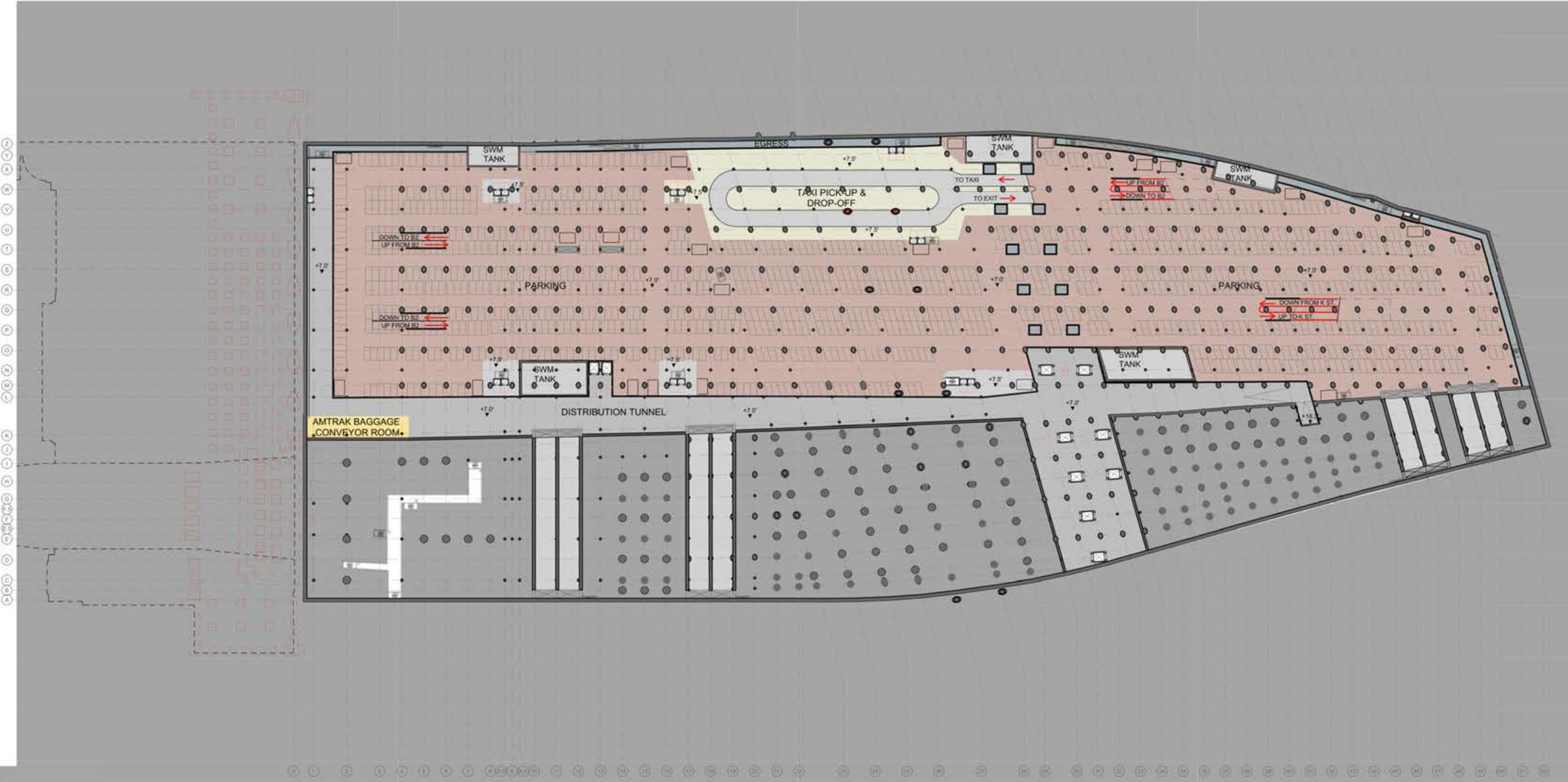




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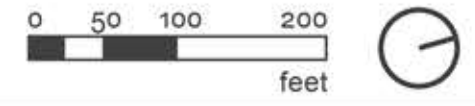
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 PLATFORM	 SERVICE	 FEDERAL AIR RIGHTS DEVELOPMENT AREA
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 PROPOSED RETAIL	 PARKING	

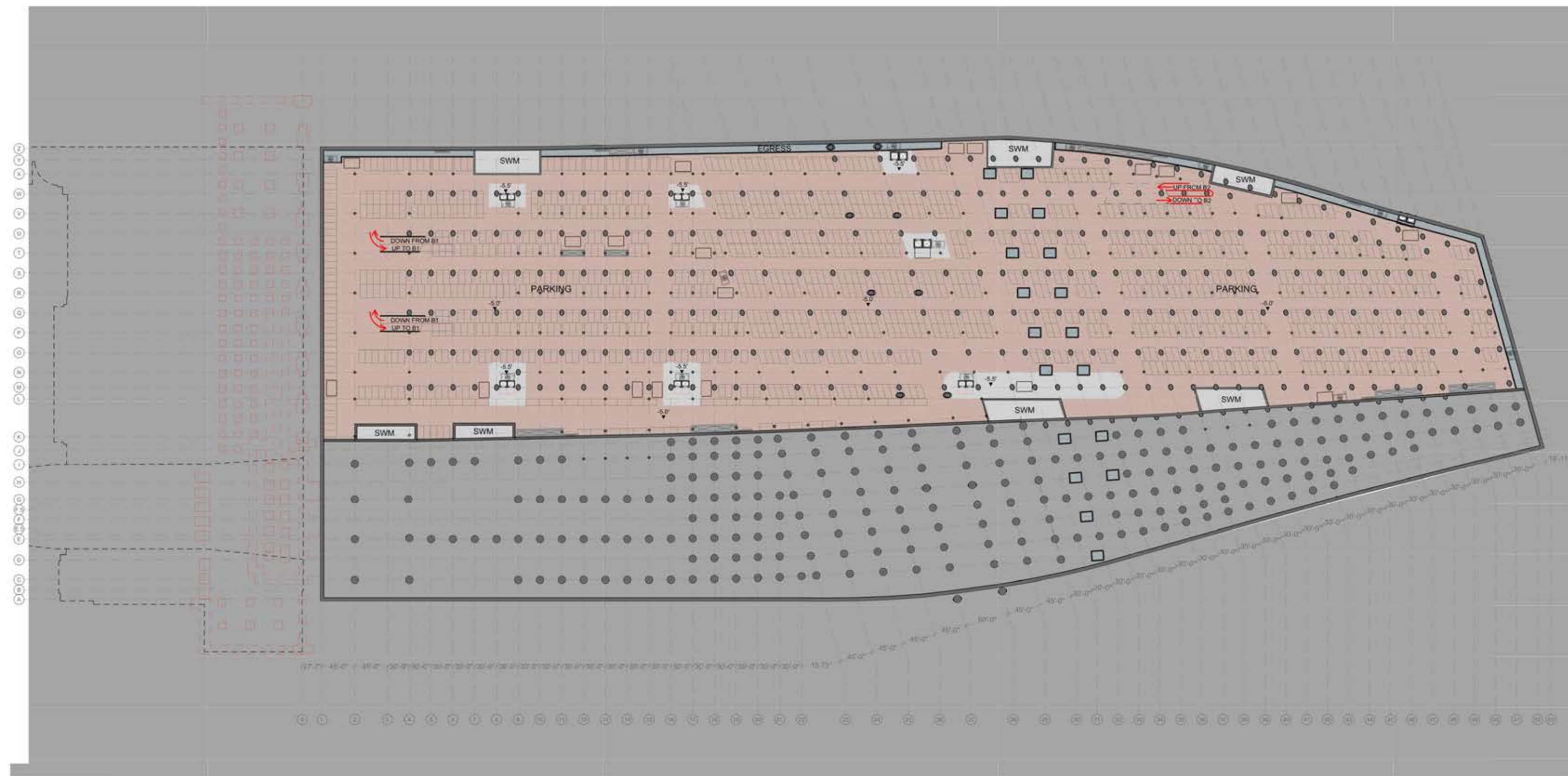




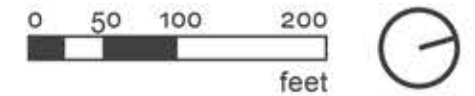
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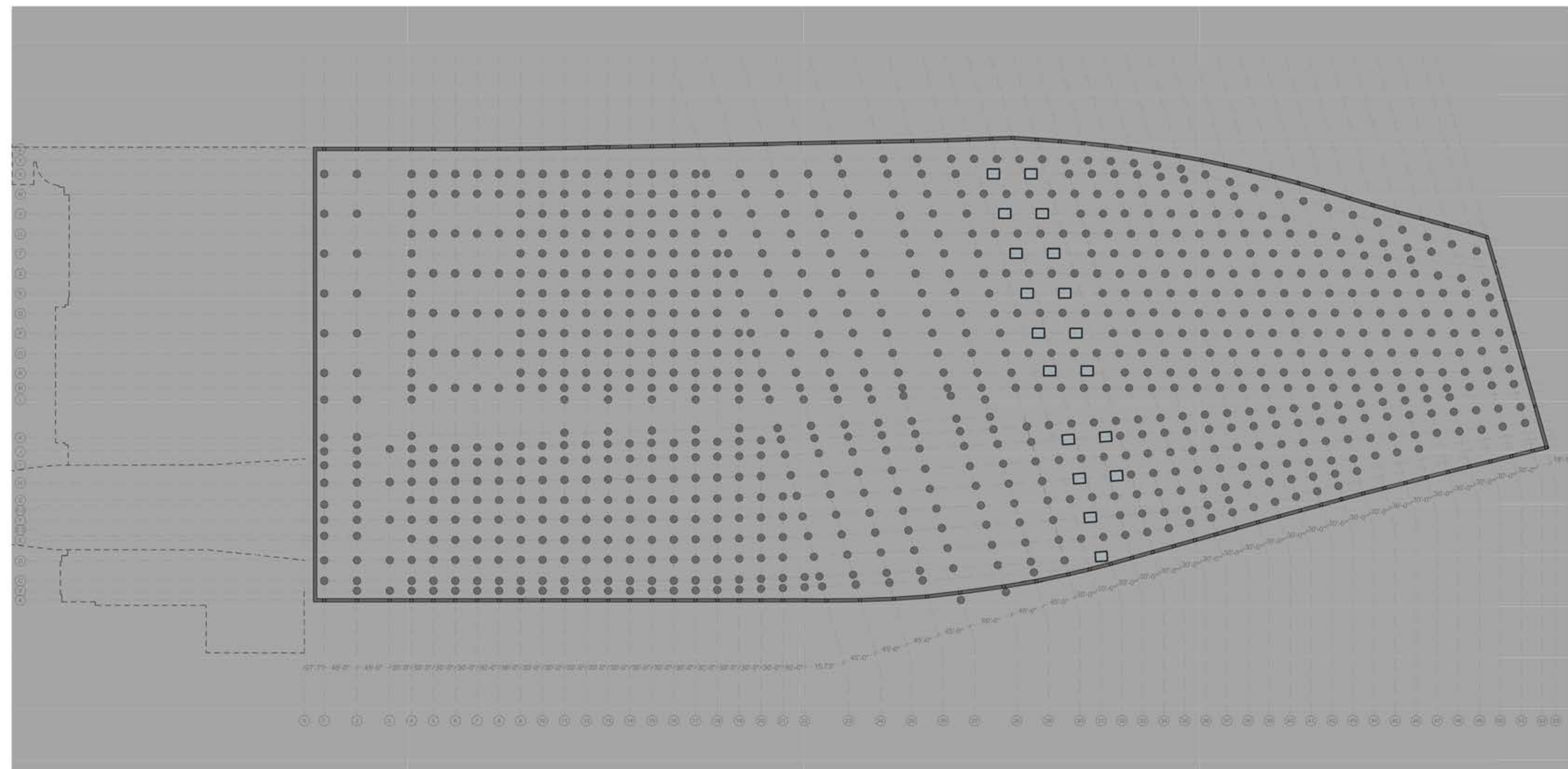
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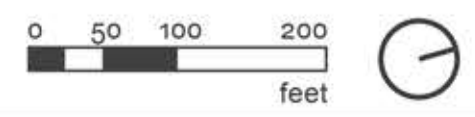


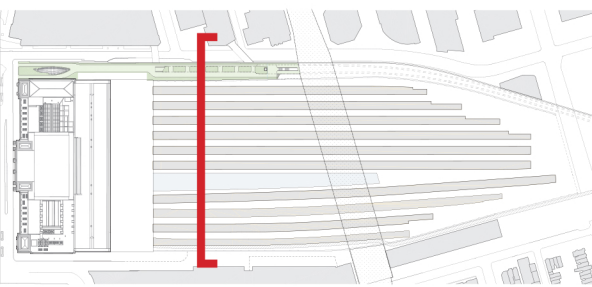
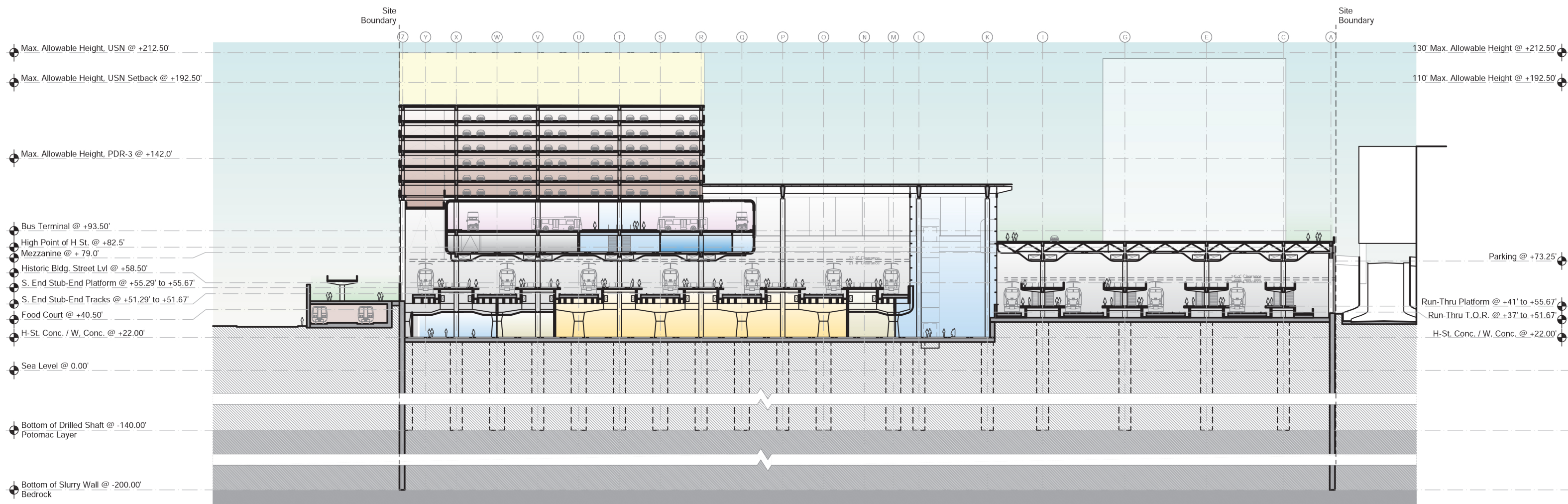
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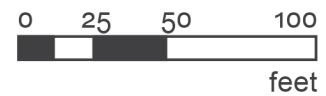


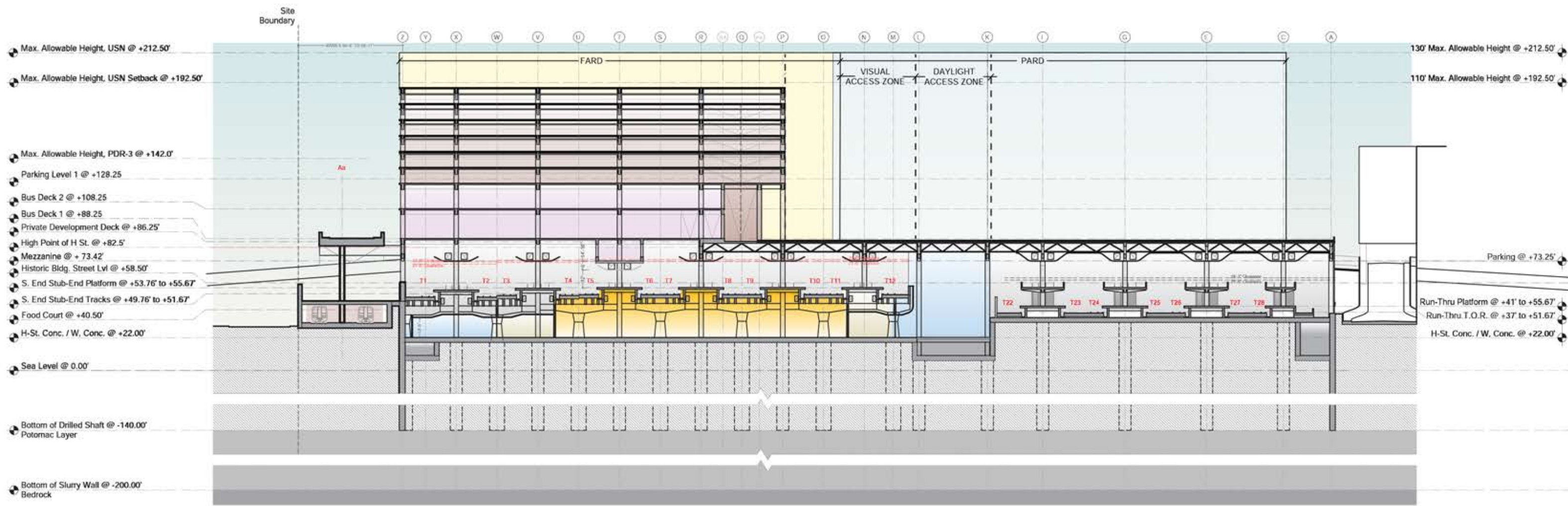
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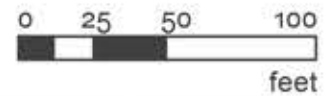
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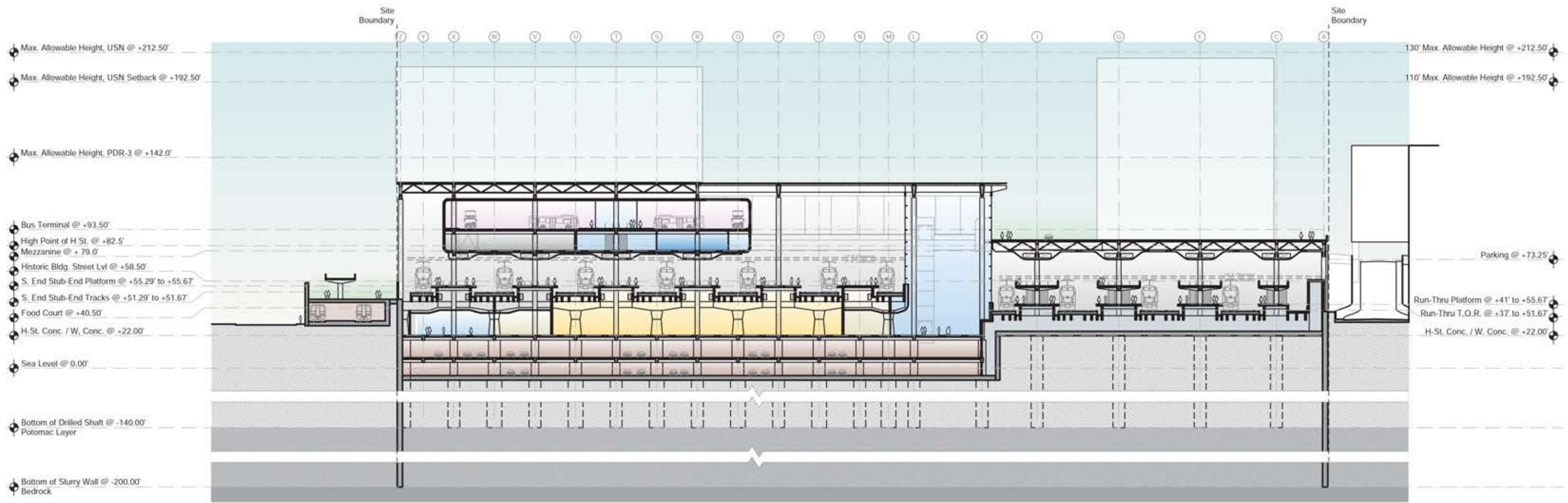




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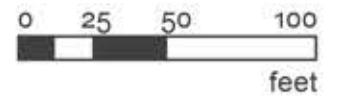
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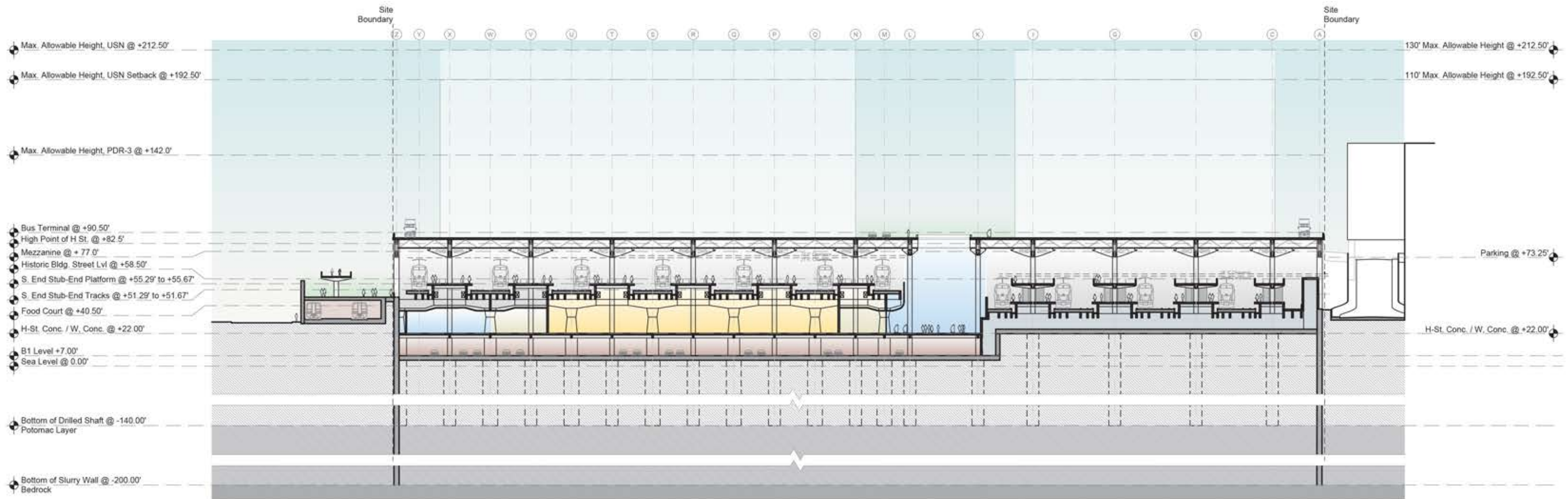




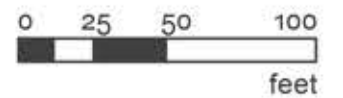
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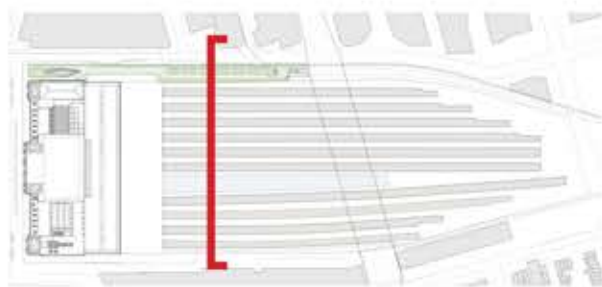
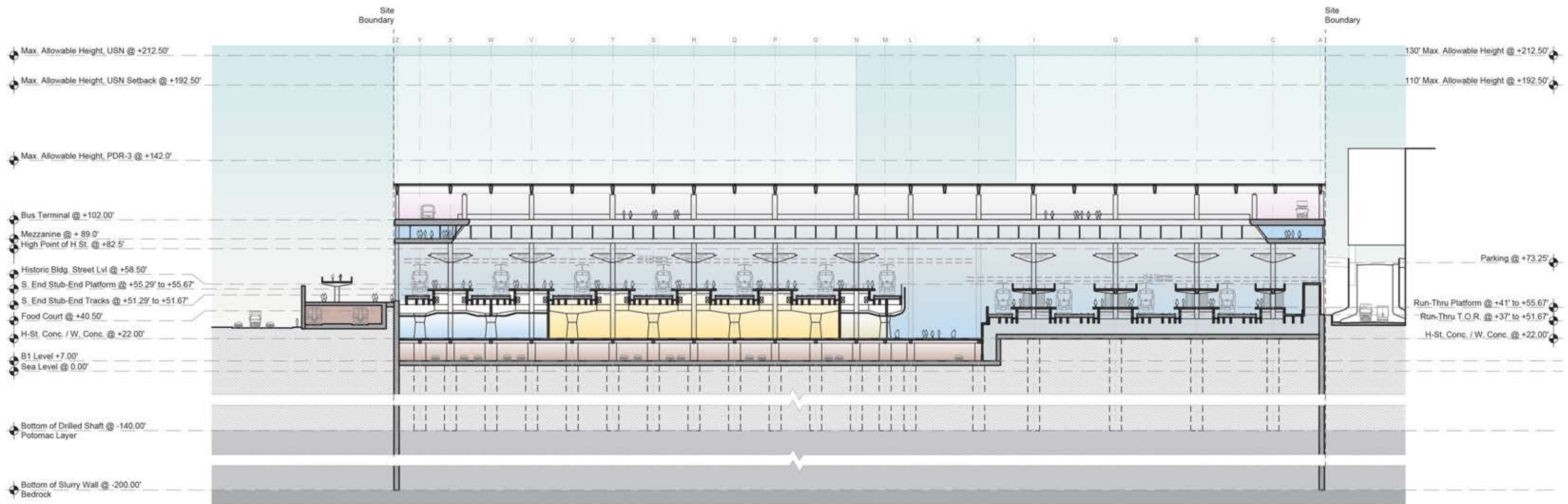
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	PROPOSED RETAIL		PARKING		



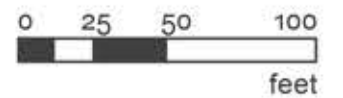


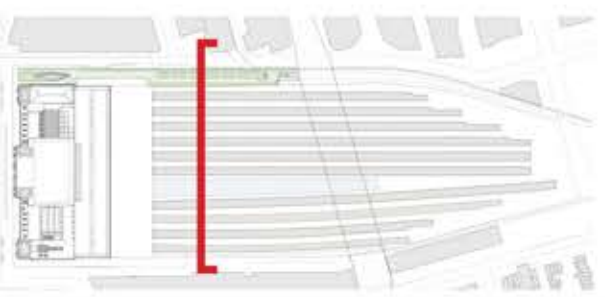
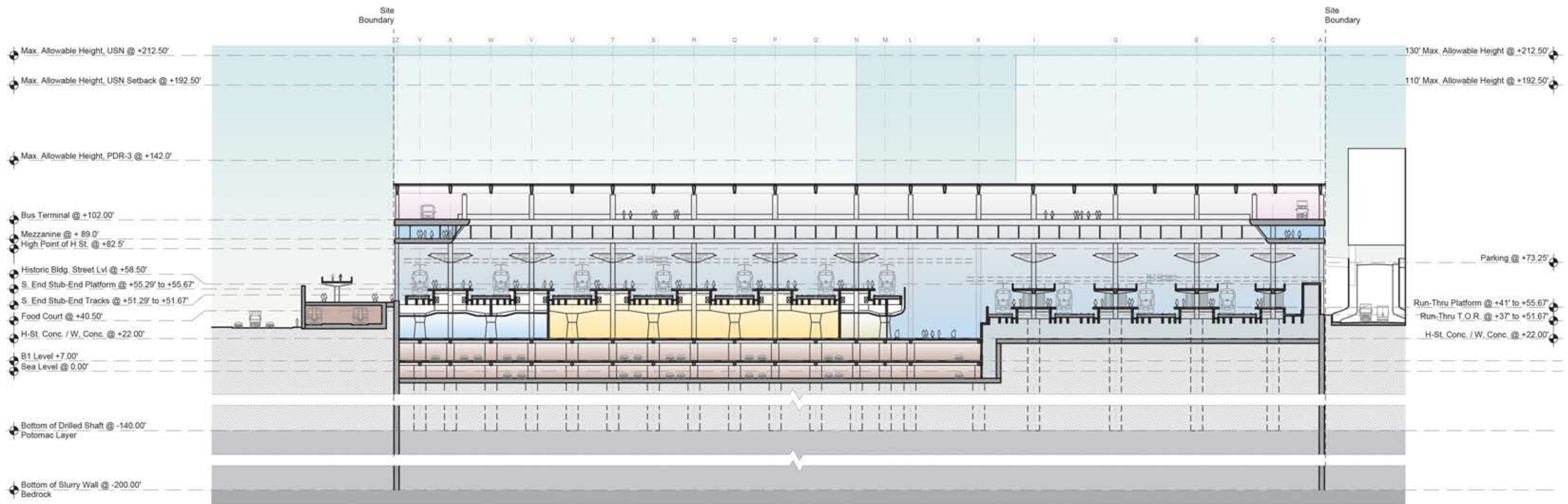
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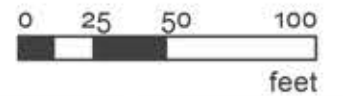


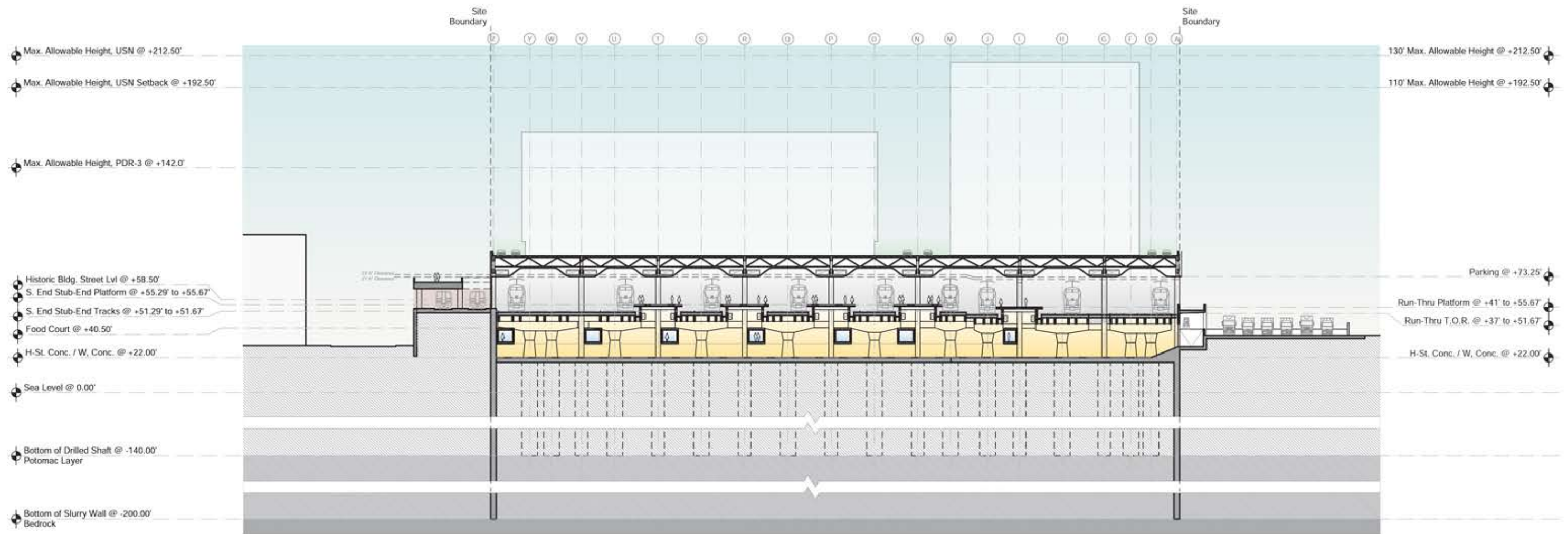
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	PROPOSED RETAIL		PARKING		



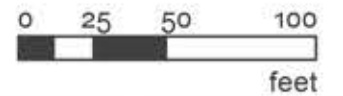


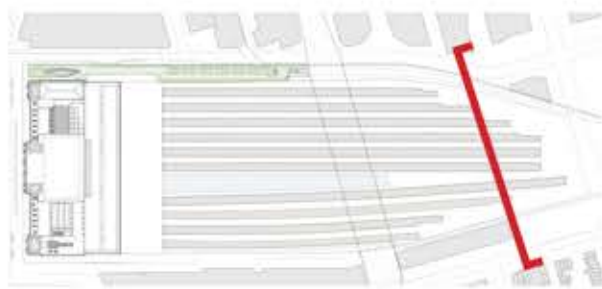
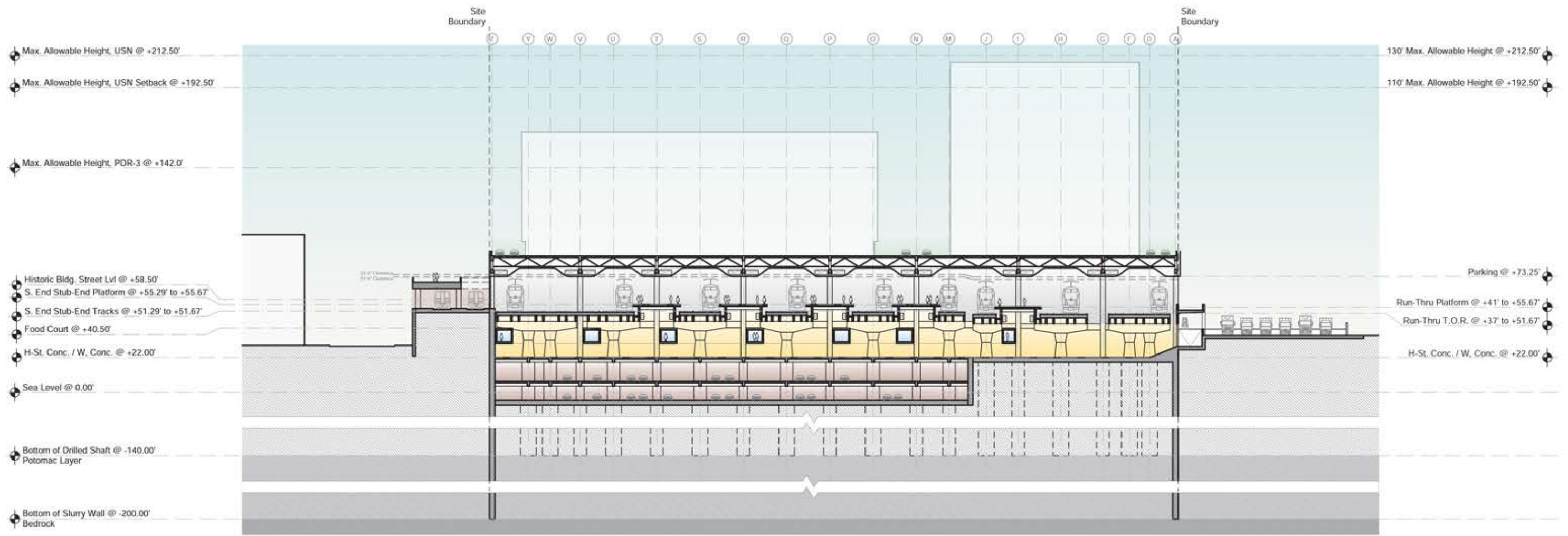
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	PROPOSED RETAIL		PARKING		



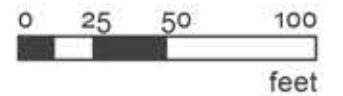


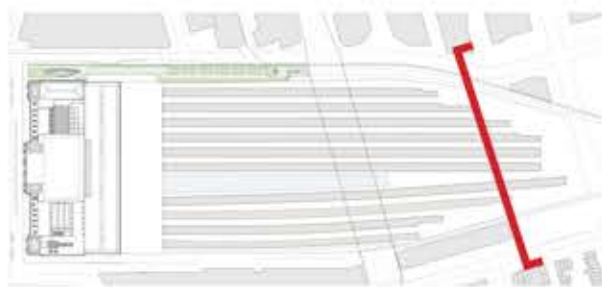
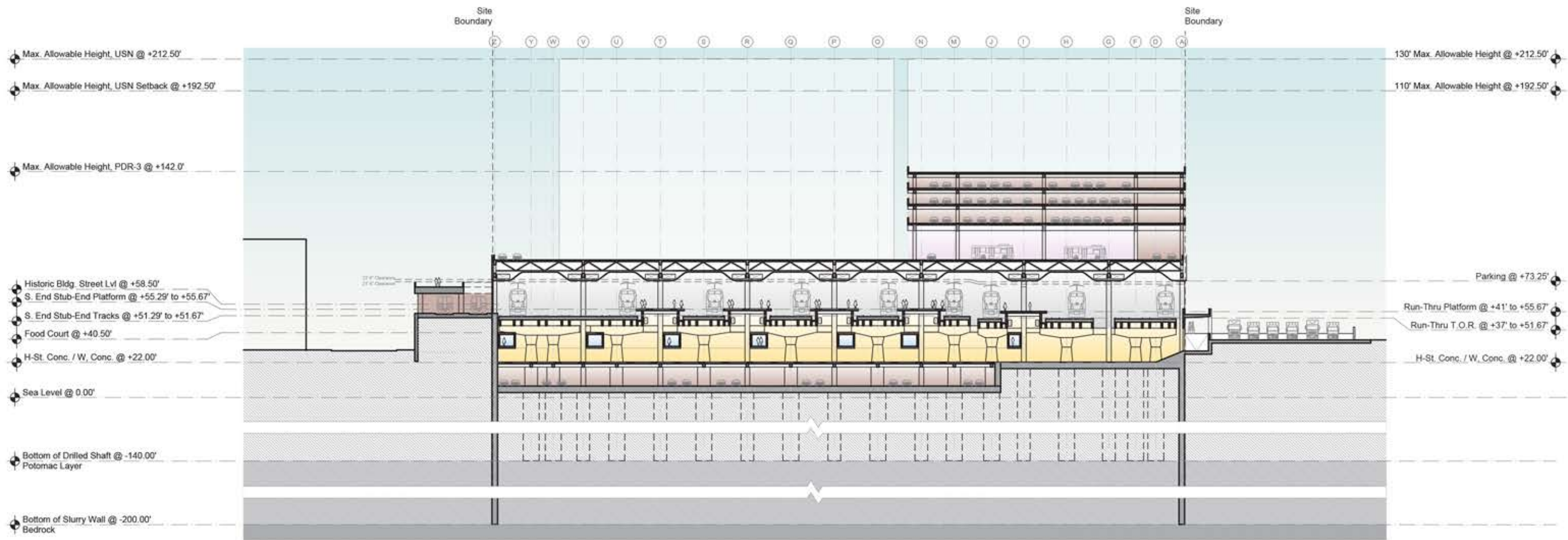
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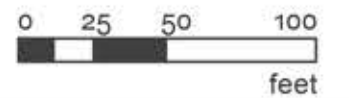


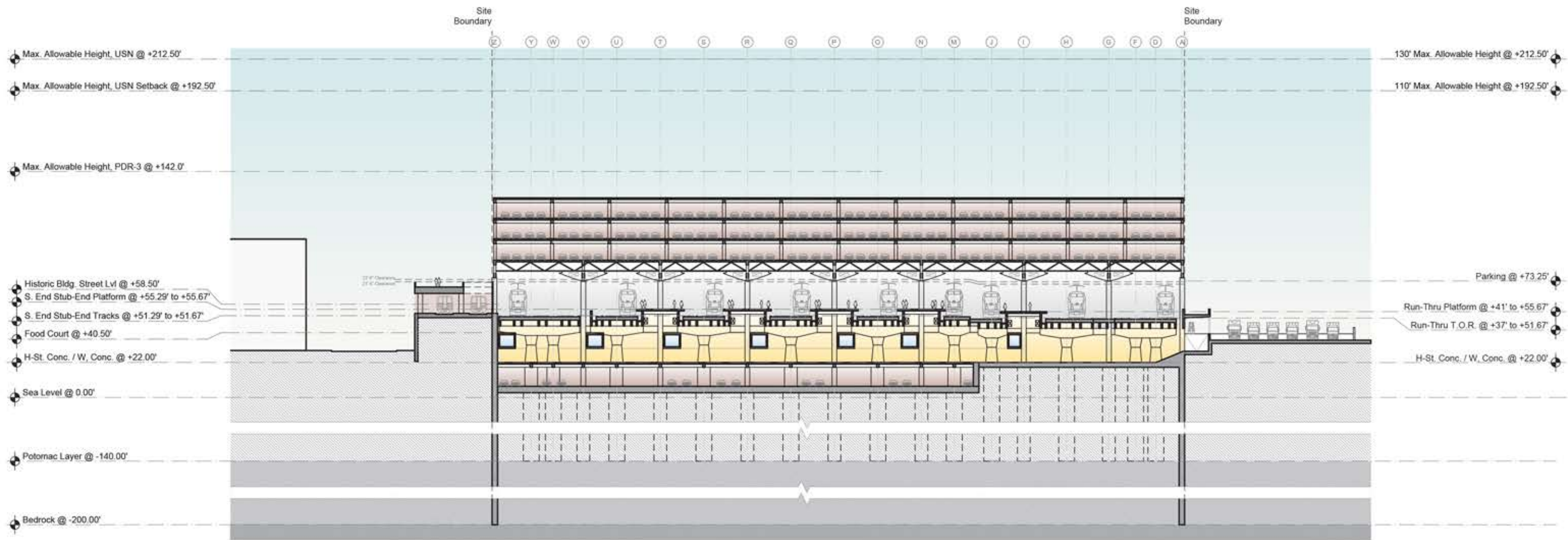
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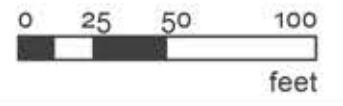


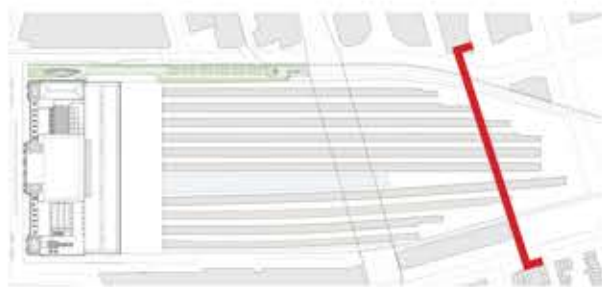
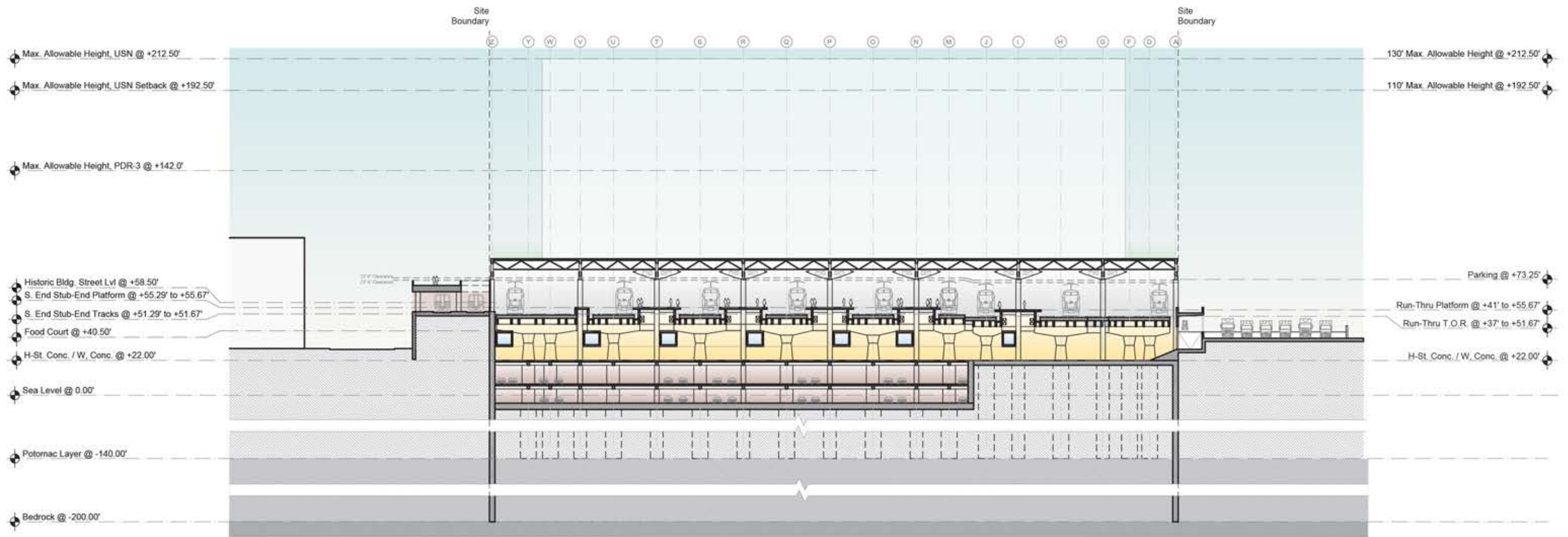
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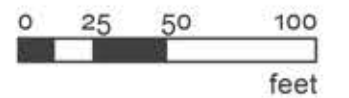


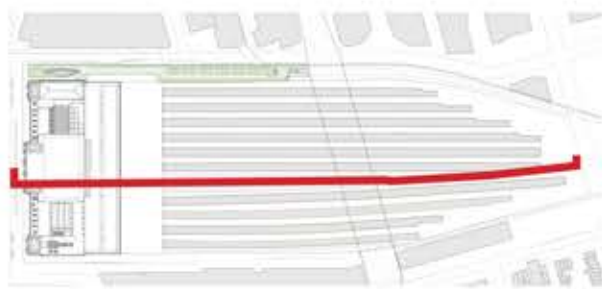
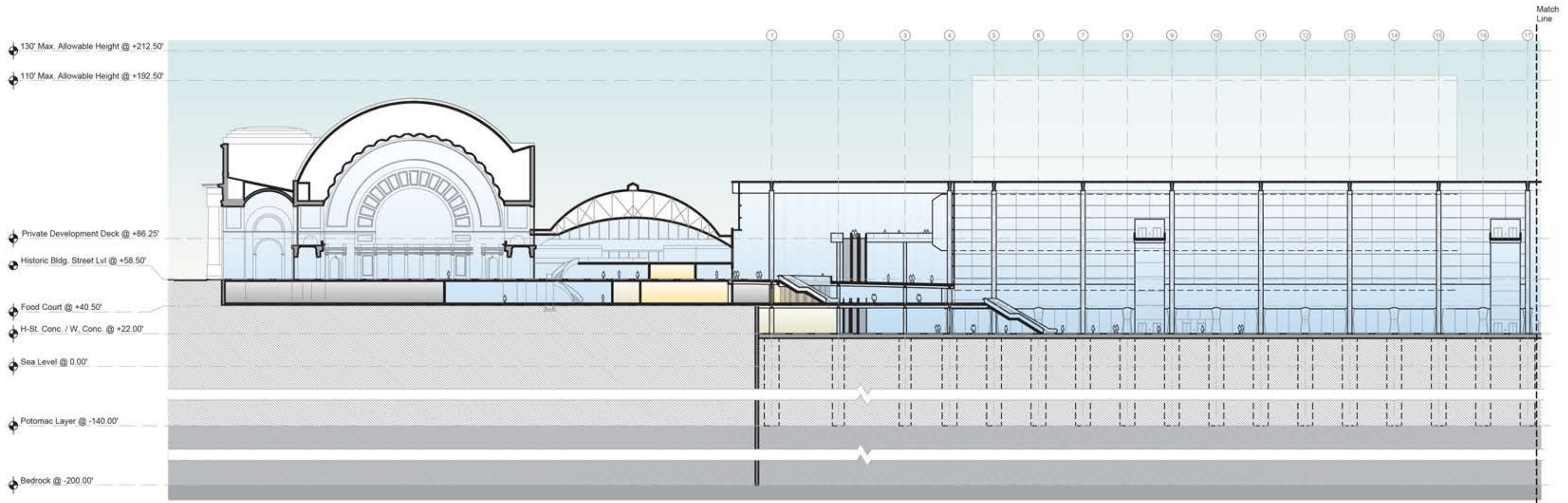
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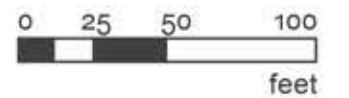


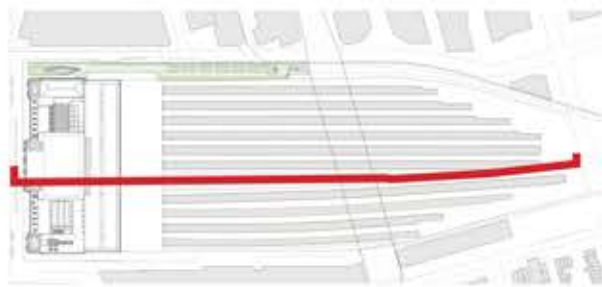
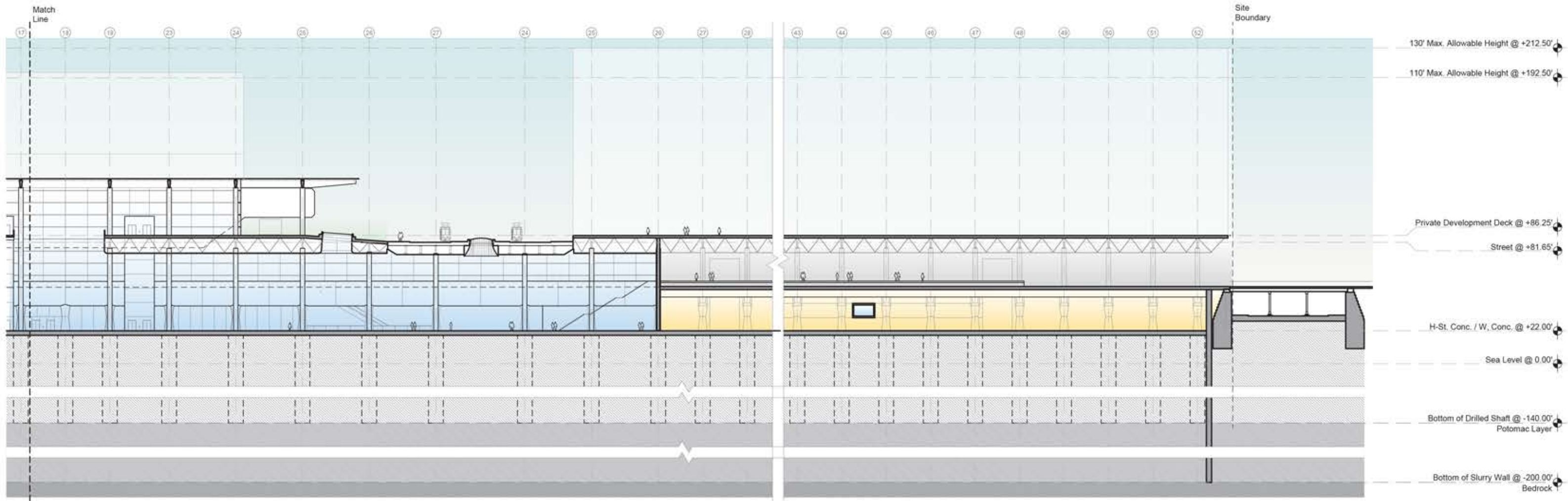
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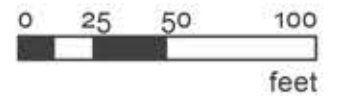


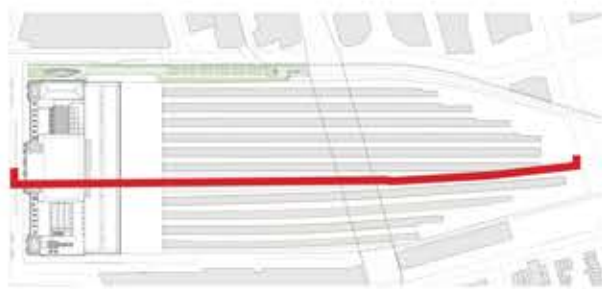
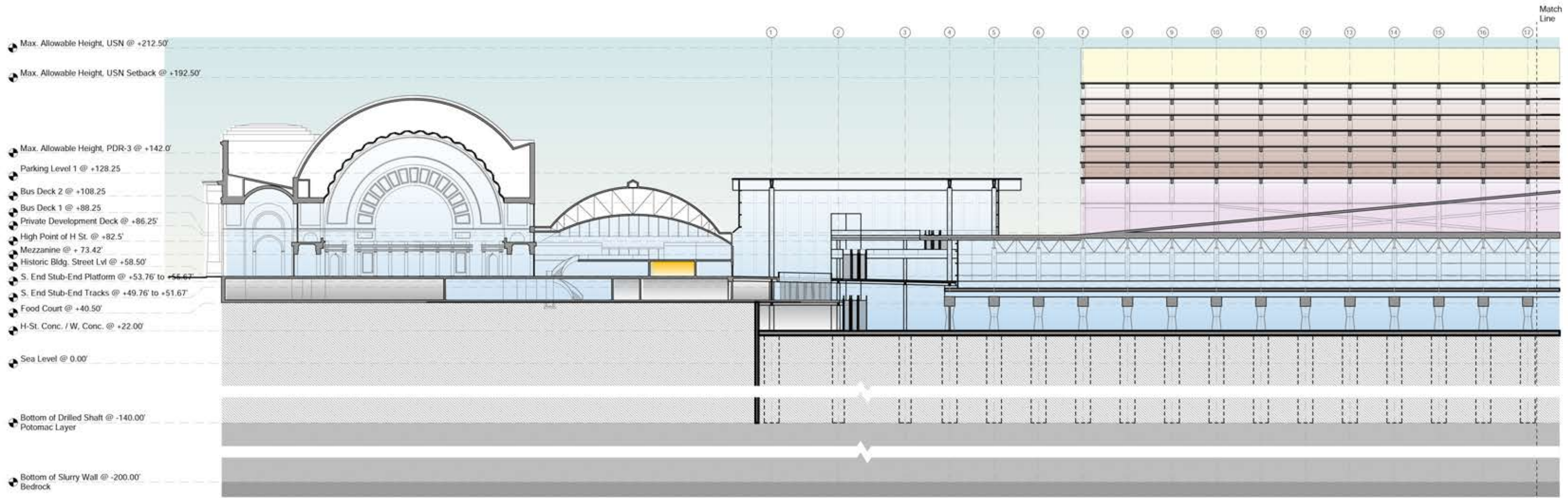
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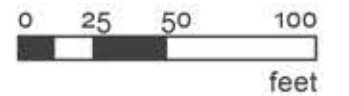


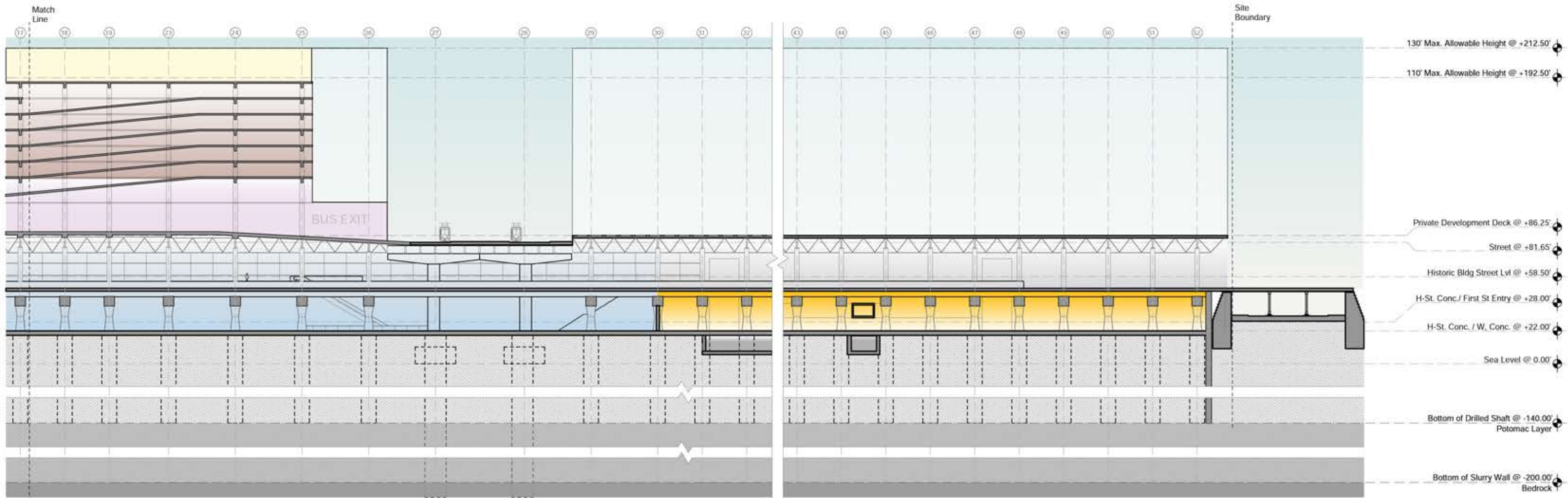
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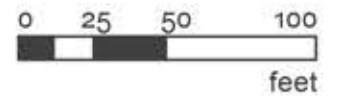


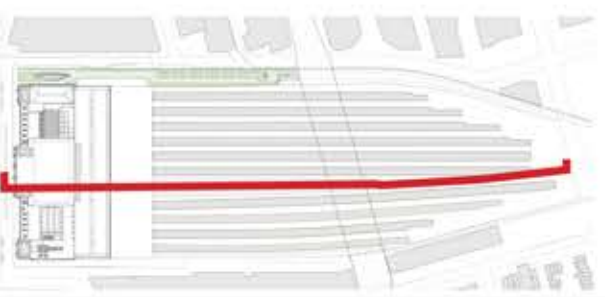
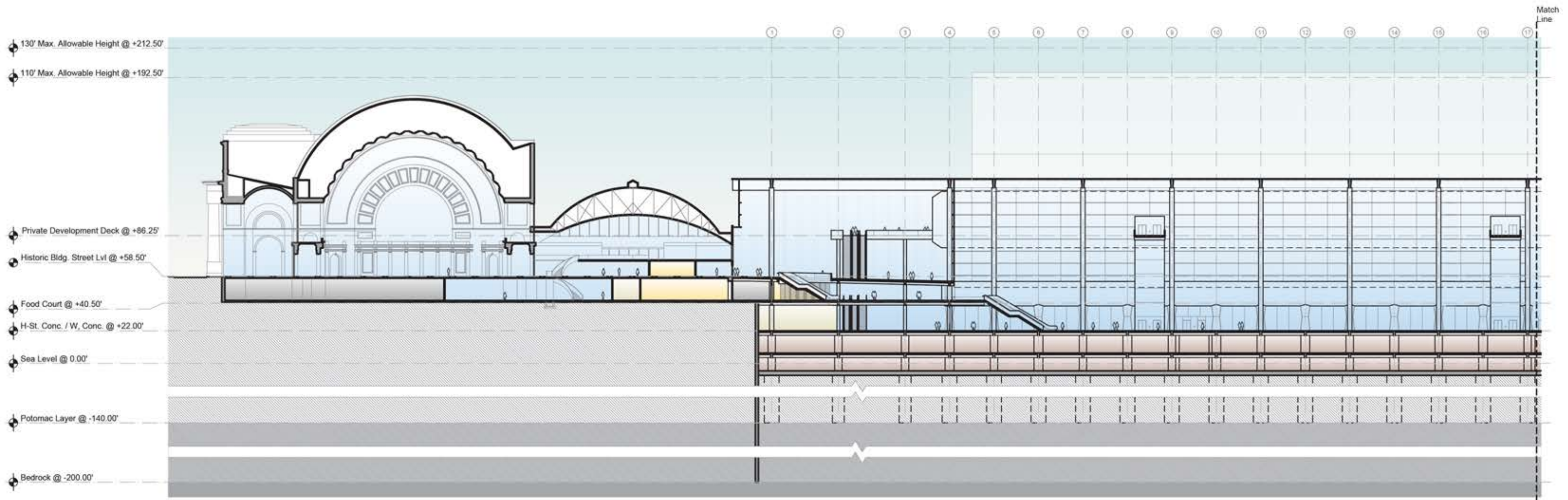
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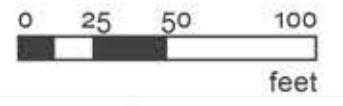


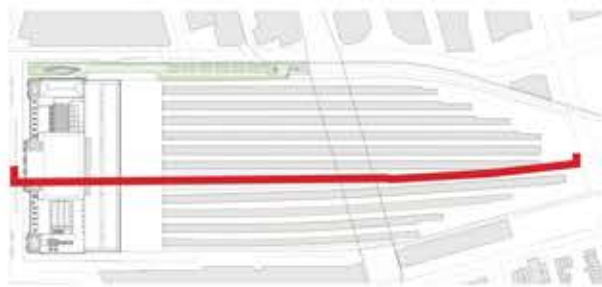
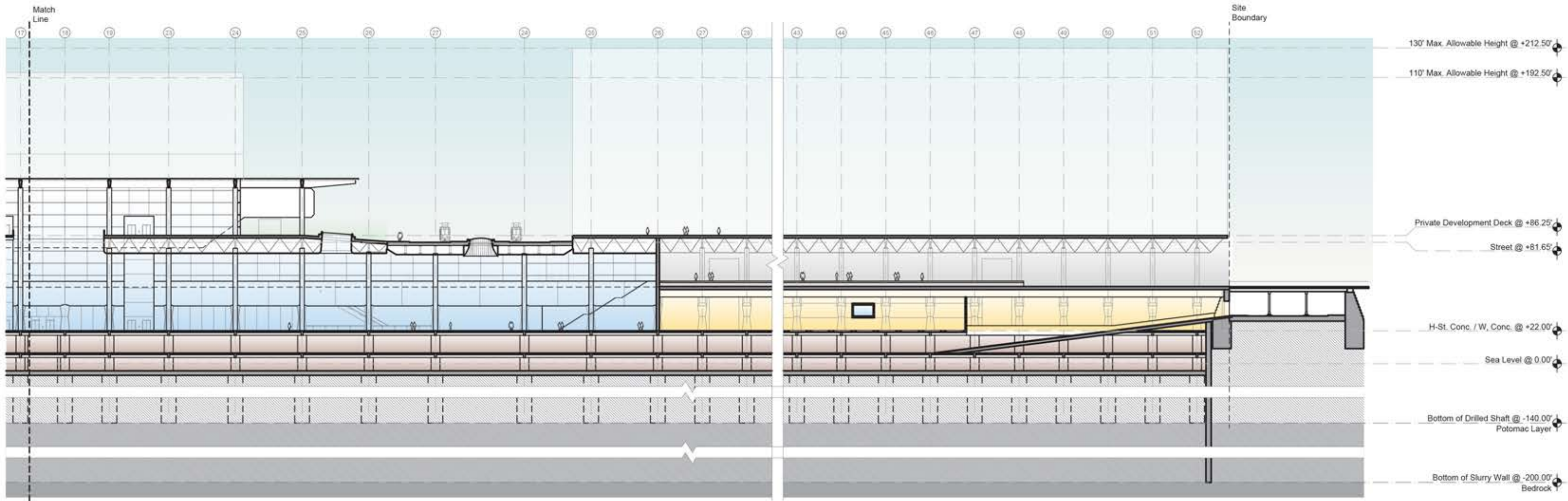
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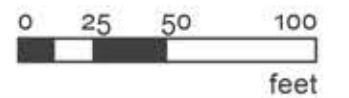


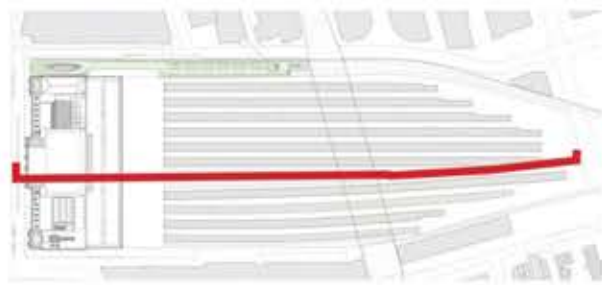
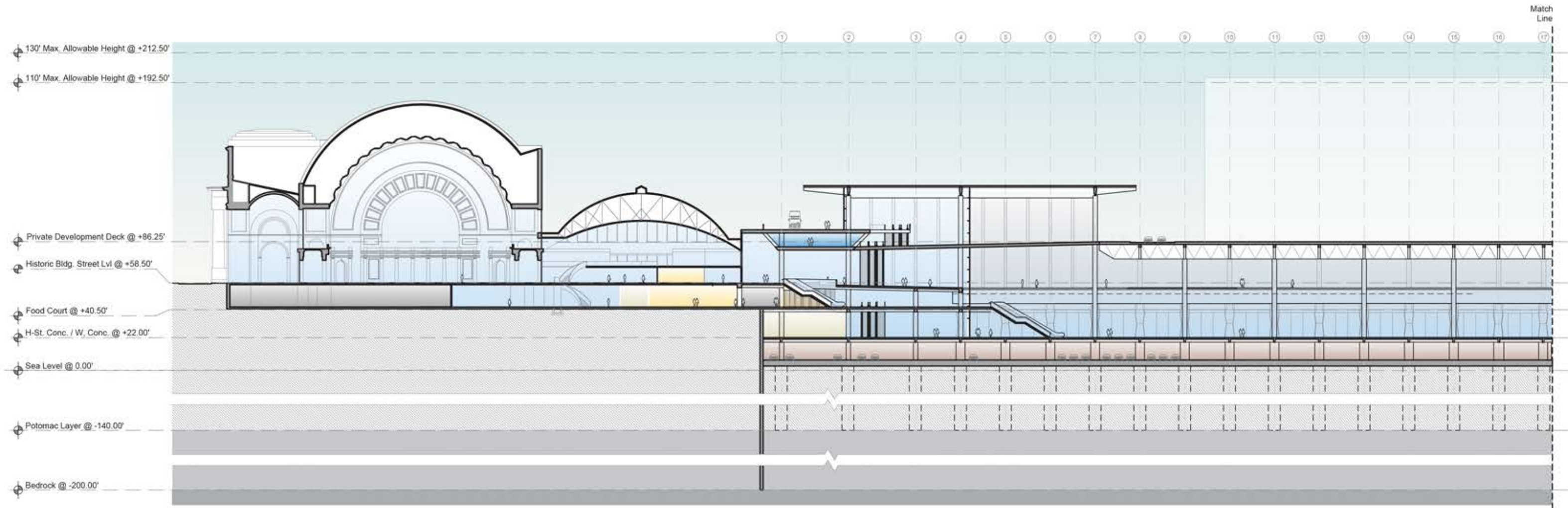
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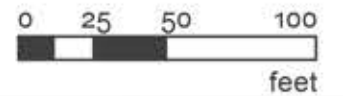


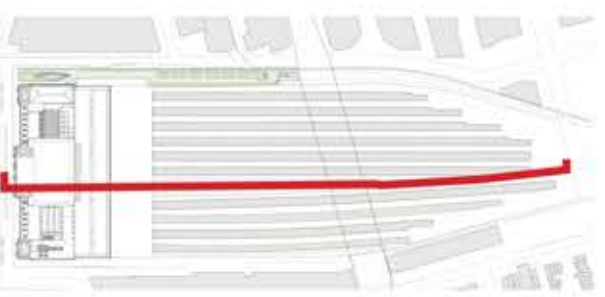
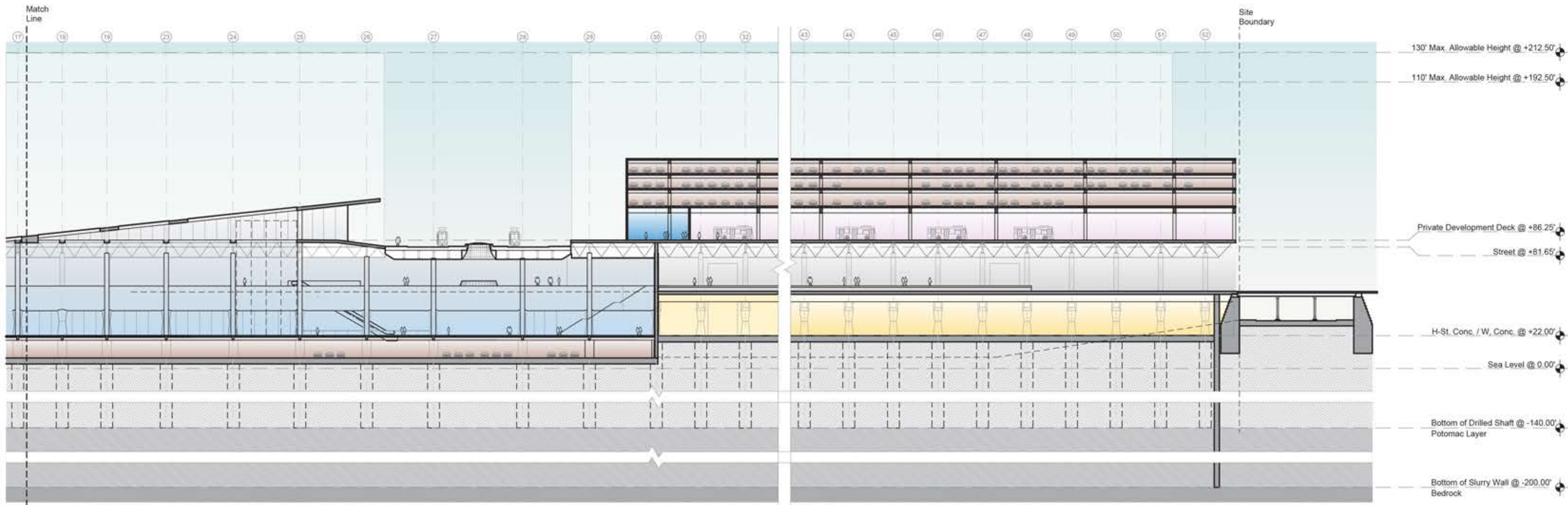
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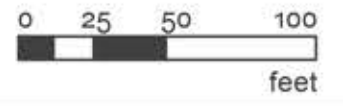


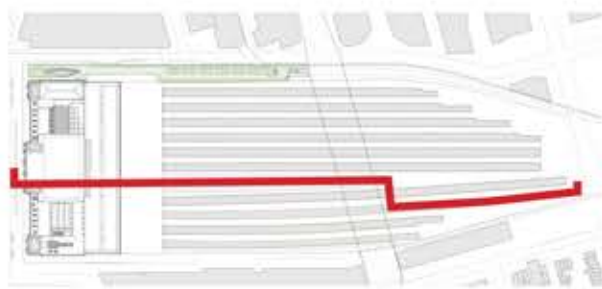
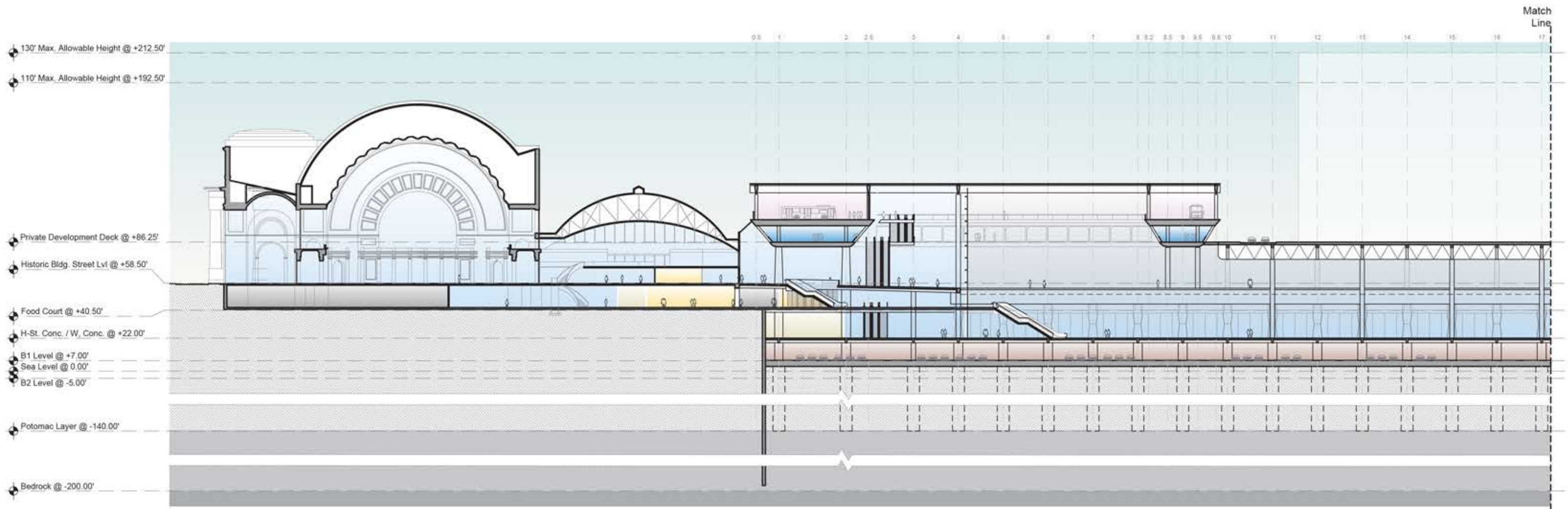
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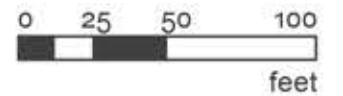


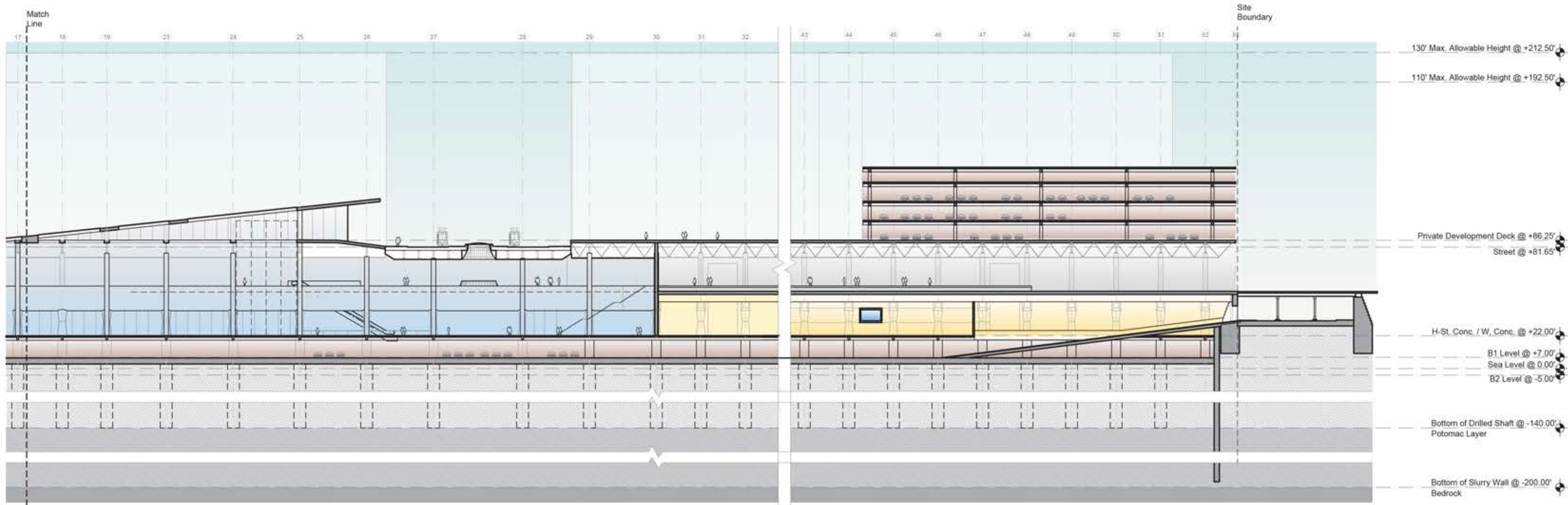
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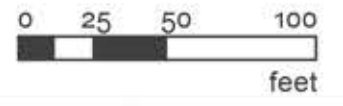


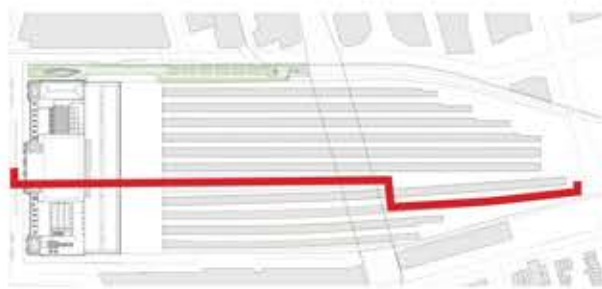
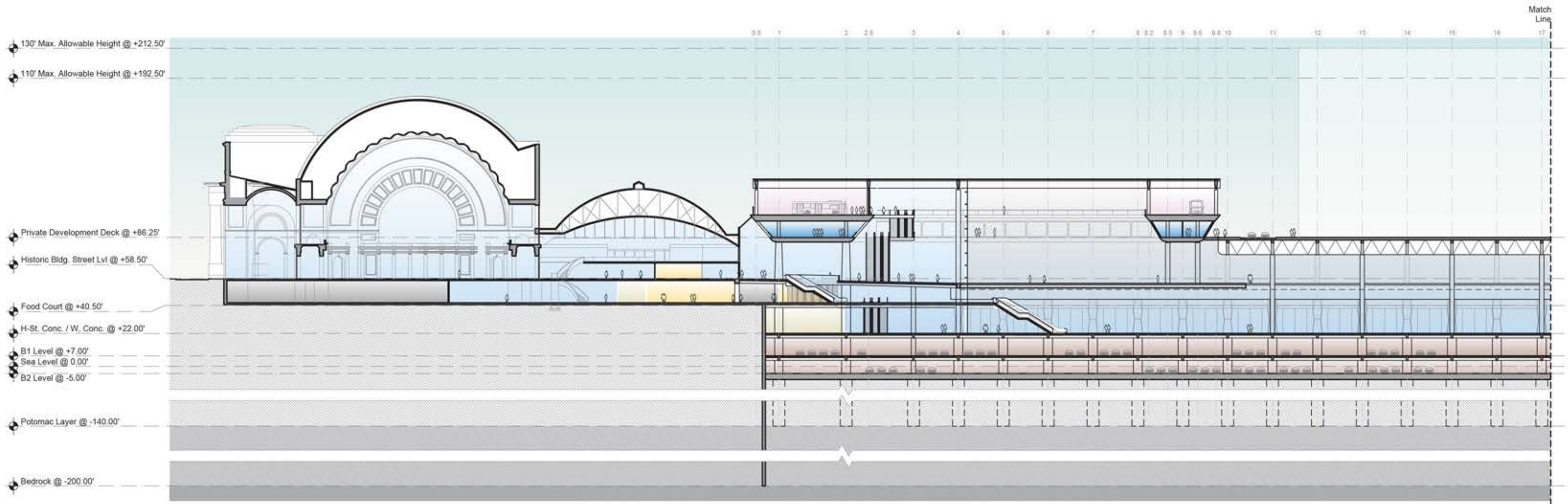
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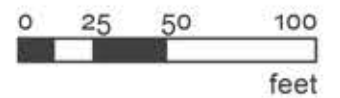


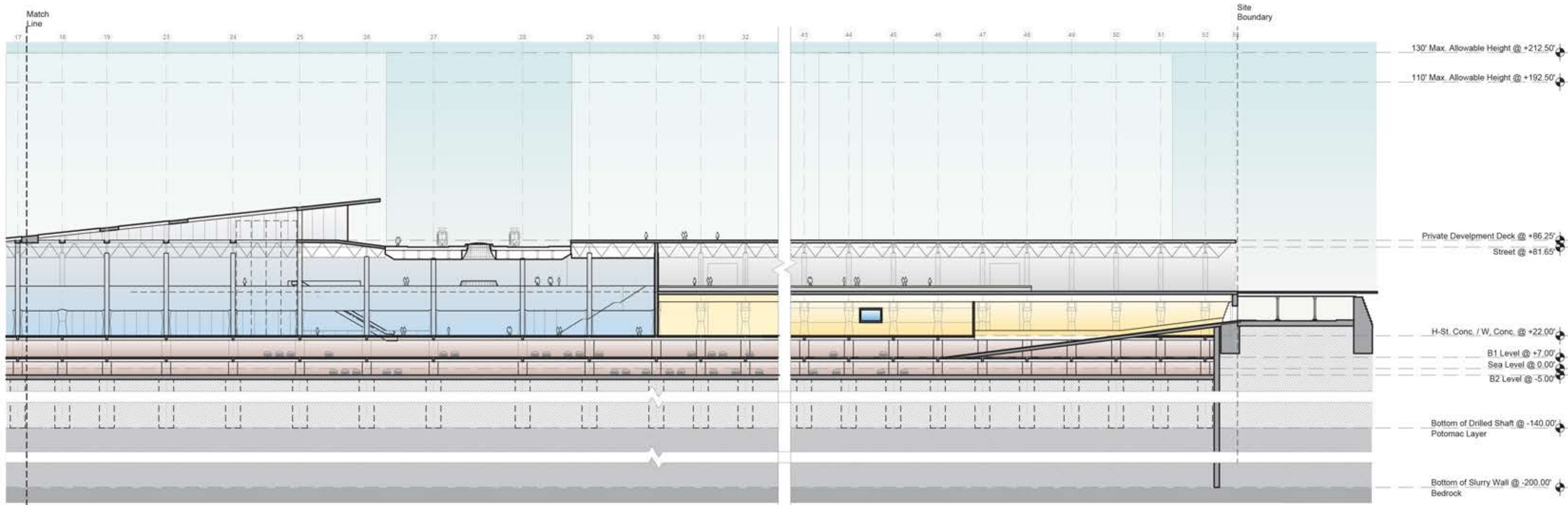
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	PLATFORM		SERVICE		FEDERAL AIR RIGHTS DEVELOPMENT AREA
	EXISTING RETAIL		BUSWAY		
	PROPOSED RETAIL		PARKING		



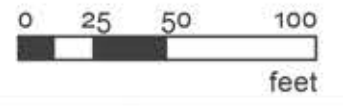


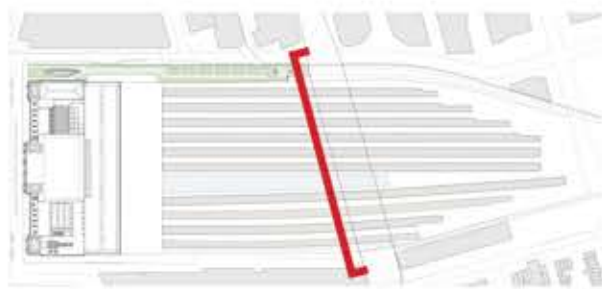
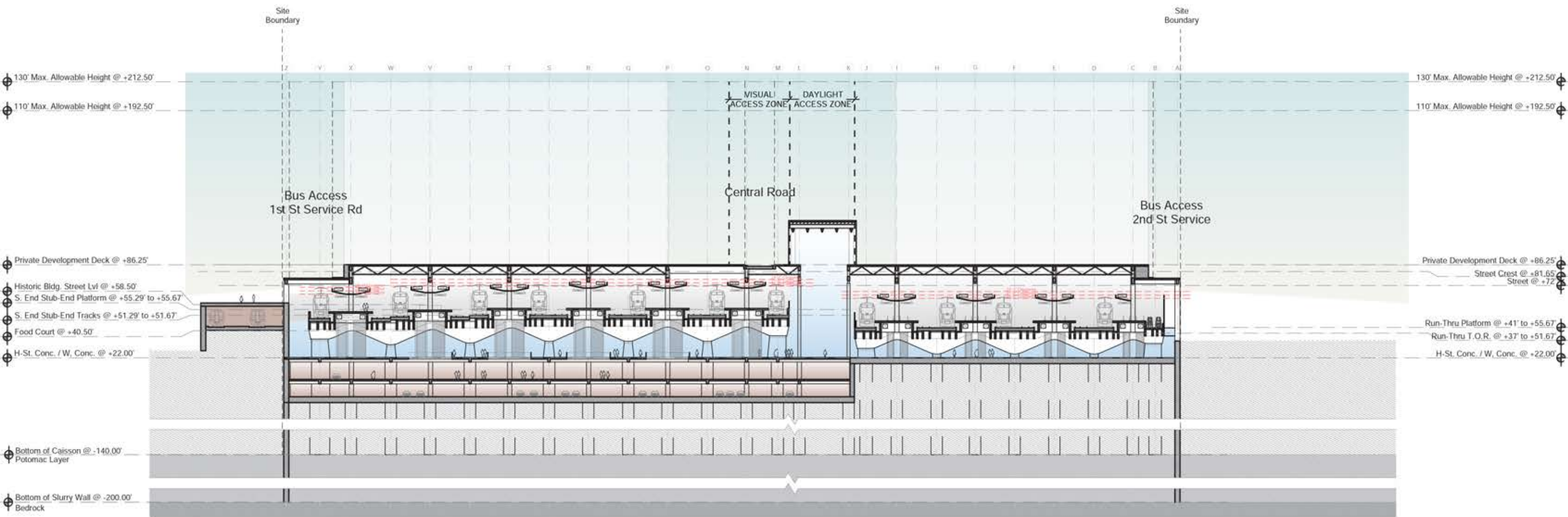
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	PLATFORM		SERVICE		FEDERAL AIR RIGHTS DEVELOPMENT AREA
	EXISTING RETAIL		BUSWAY		
	PROPOSED RETAIL		PARKING		





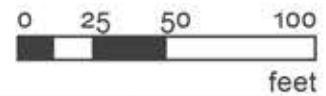
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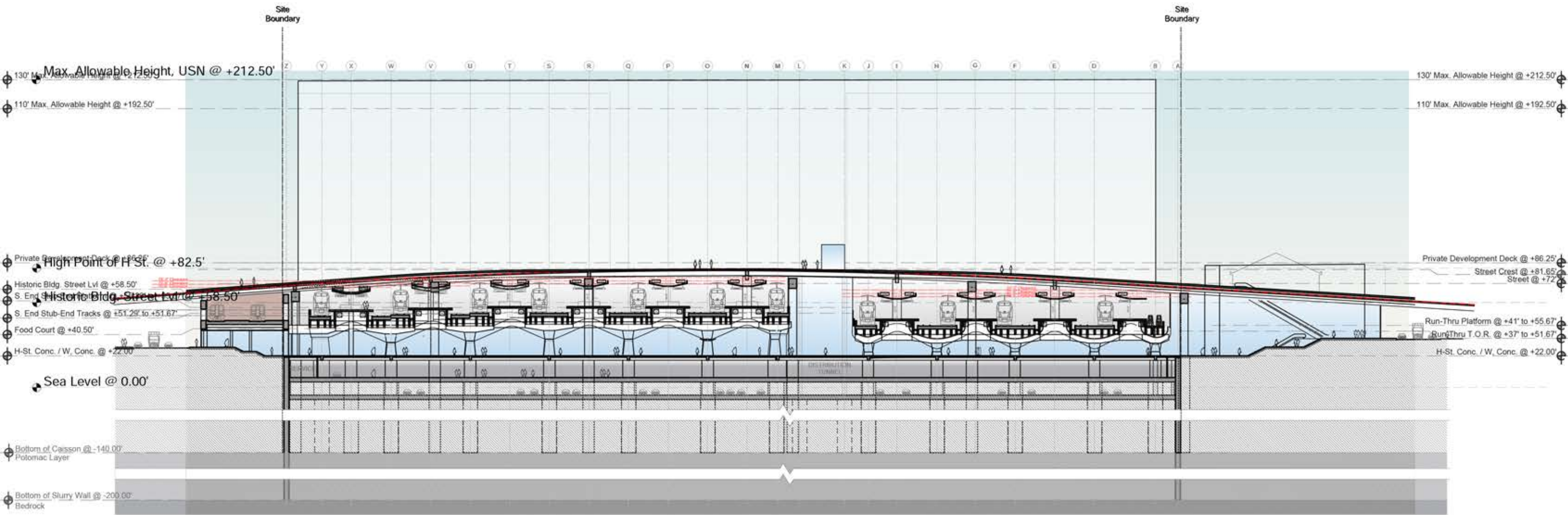




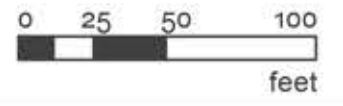
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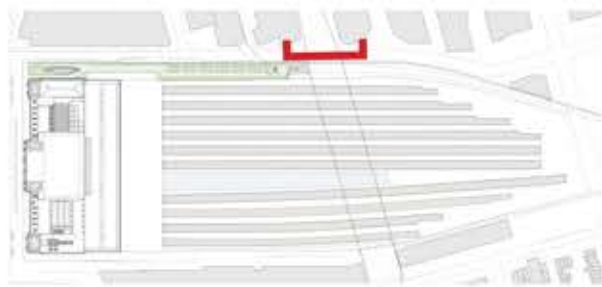
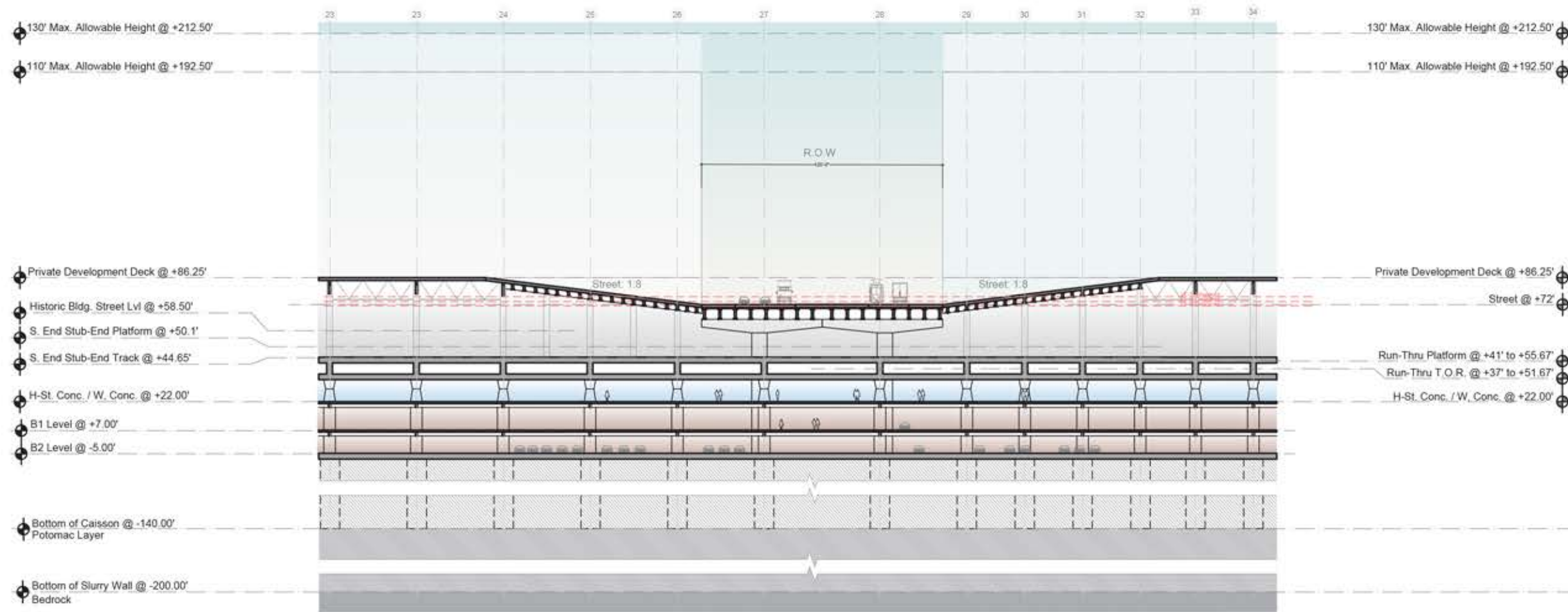
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	PROPOSED RETAIL		PARKING		



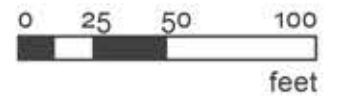


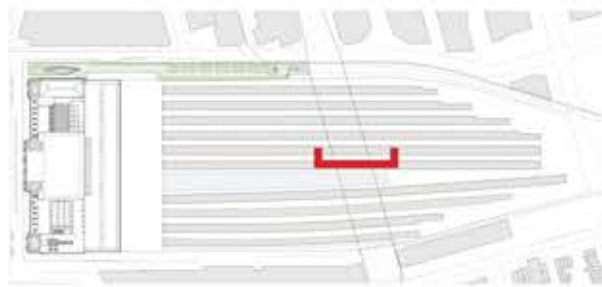
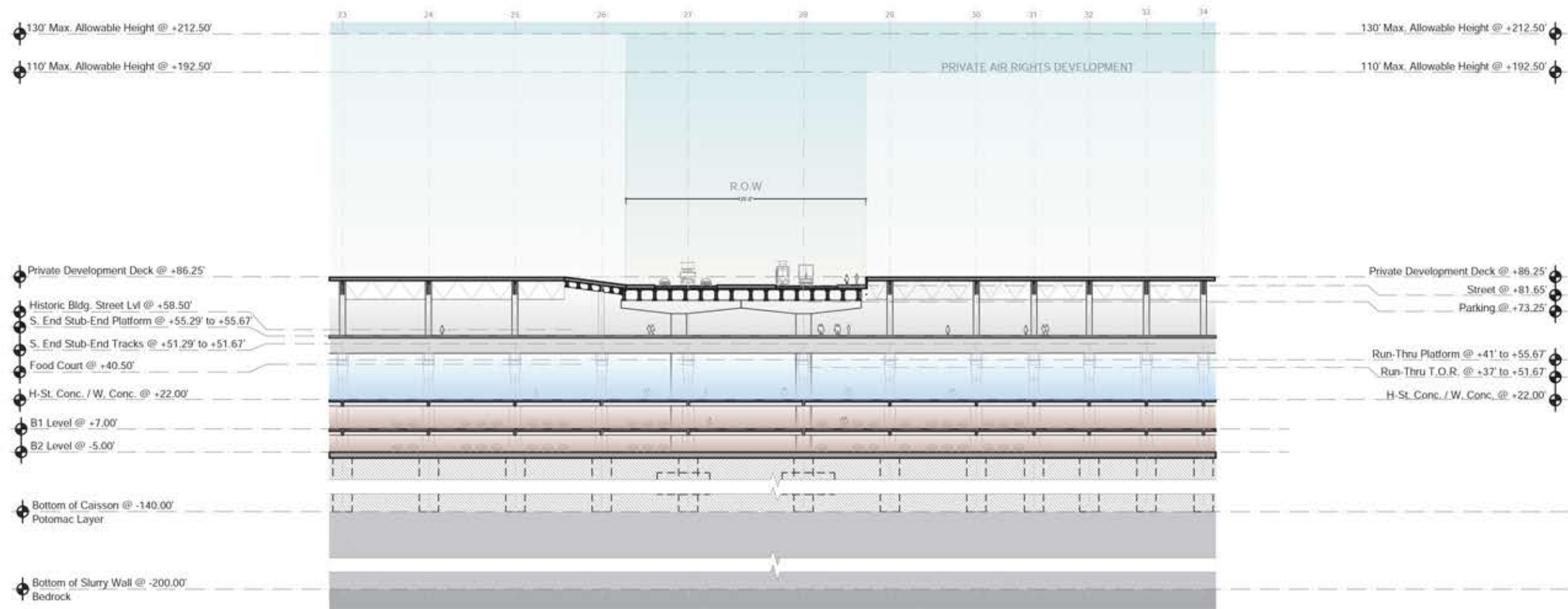
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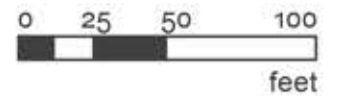


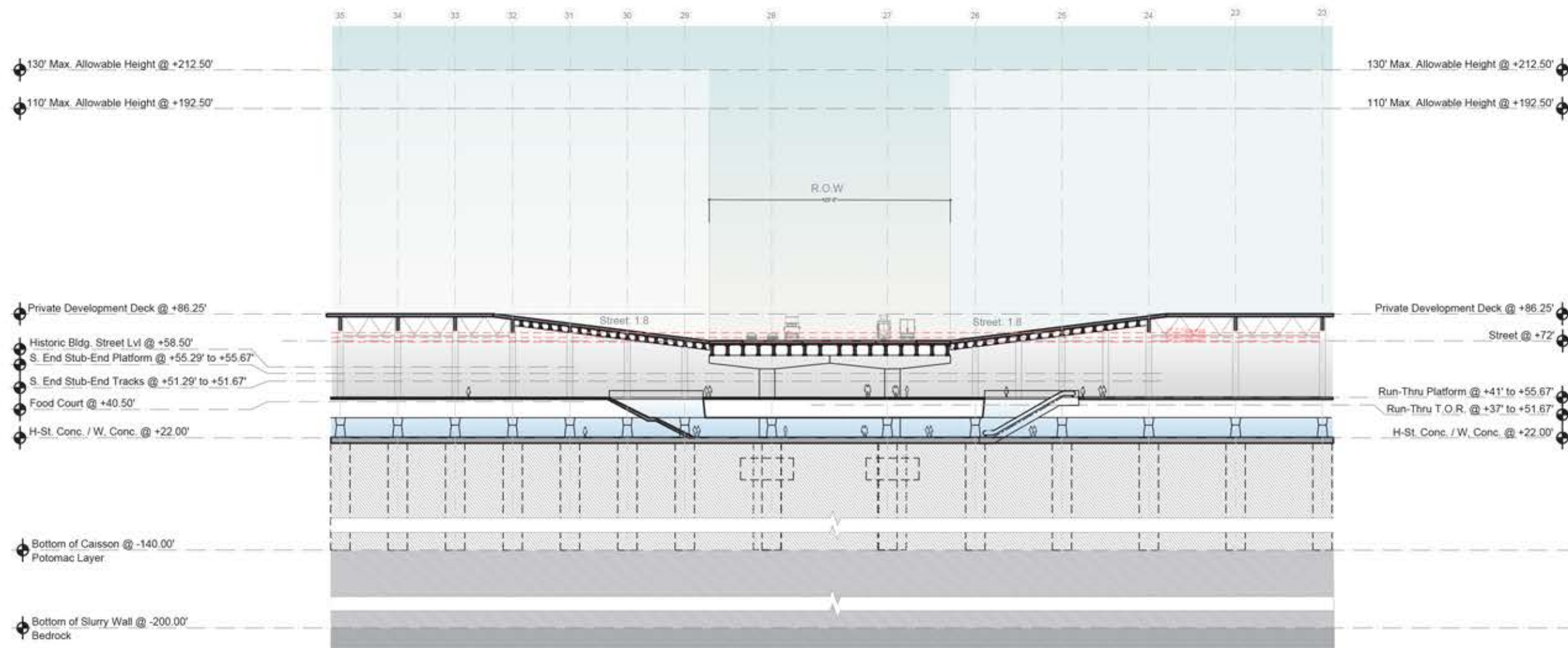
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