

#### **RAGON INSTITUTE 2.0**

600-624 Main St, Cambridge MA 02139

# APPLICATION FOR PROJECT REVIEW SPECIAL PERMIT

**January 29, 2021** 

**VOLUME TWO (PART A)** 

**Graphic Materials** 

#### **TABLE OF CONTENTS**

#### **VOLUME ONE - NARRATIVE MATERIALS**

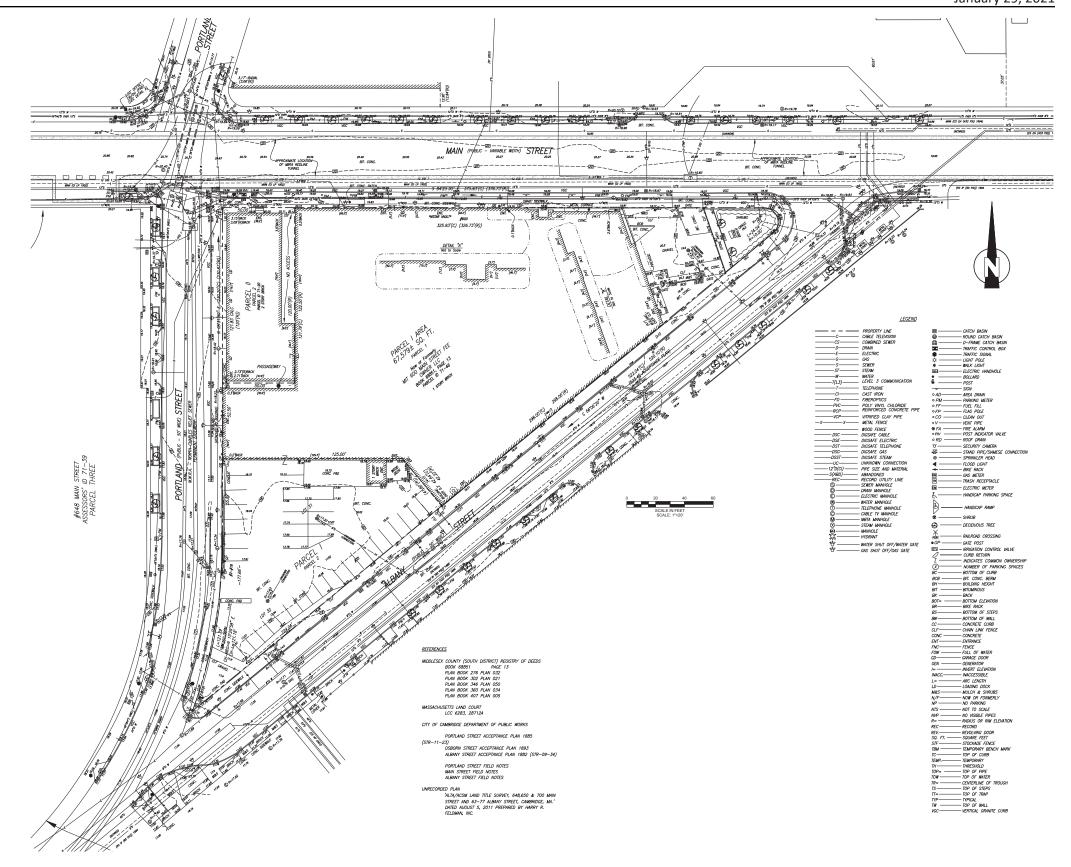
#### **VOLUME TWO (PART A) - GRAPHIC MATERIALS**

SITE AND CONTEXT INFORMATION		FLOOR PLANS		LANDSCAPE DESIGN	
EXISTING CONDITIONS PLAN	A-2	GROUND LEVEL PLAN	A-34	OVERALL SITE PLAN	B-6
EXISTING CONDITIONS PHOTOGRAPHS	A-3	MECHANICAL PLATFORM PLAN	A-35	PROPOSED CURB CUTS	B-6
SITE CONTEXT PLAN	A-5	SECOND LEVEL PLAN	A-36	OPEN SPACE / PERMEABLE SPACE PLAN	B-7
ZONING MAP	A-6	THIRD LEVEL PLAN	A-37	PROPOSED OVERALL TREE PLAN	B-7
K2C2 STUDY AREA	A-7	FOURTH LEVEL PLAN	A-38	TREE PROTECTION PLAN	B-7
EXISTING SITE BOUNDARY	A-8	FIFTH LEVEL PLAN	A-39	OVERALL MATERIALS PLAN	B-7
		MECHANICAL LEVEL PLAN	A-40	OVERALL LAYOUT PLAN	B-7
ZONING ANALYSIS		ROOF LEVEL PLAN	A-41	OVERALL GRADING PLAN	B-7
ZONING ANALYSIS - HEIGHT LIMITS	A-9	GARAGE LEVEL ONE PLAN	A-42	OVERALL PLANTING PLAN	B-7
ZONING ANALYSIS - BULK CONTROL PLANE	A-10	GARAGE LEVEL TWO PLAN	A-43	LINEAR PARK / OCULUS PLAZA MATERIALS PLAN	B-7
BUILDING MASSING	A-11	LONG-TERM BICYCLE PARKING PLAN	A-44	LINEAR PARK / OCULUS PLAZA PLANTING PLAN	B-7
				RENDERING OF LINEAR PARK	B-7
RENDERINGS		SECTIONS AND ELEVATIONS		RENDERING OF OCULUS PLAZA	B-8
AERIAL VIEW - LOOKING SOUTHWEST	A-12	BUILDING SECTIONS	A-45	SEMINAR GROVE MATERIALS PLAN	B-8
AERIAL VIEW - LOOKING SOUTHWEST (TREES REMOVED)	A-13	ATRIUM SECTION	A-47	SEMINAR GROVE PLANTING PLAN	B-8
VIEW FROM MAIN ST (NORTH SIDE) - LOOKING WEST	A-14	STREETWALL ELEVATION	A-48	SEMINAR GROVE RENDERING	B-8
VIEW FROM MAIN ST (NORTH SIDE) - LOOKING WEST (TREES REMOVED)	A-15	MAIN STREET ELEVATION	A-49	SECOND LEVEL TERRACE GARDEN PLAN	B-8
VIEW FROM MAIN ST (SOUTH SIDE) - LOOKING WEST	A-16	PORTLAND STREET ELEVATION	A-50	SECOND LEVEL TERRACE GARDEN PLAN RENDERING	B-8
VIEW FROM MAIN ST (SOUTH SIDE) - LOOKING WEST (TREES REMOVED)	A-17	ALBANY STREET ELEVATION	A-51	ROOF LEVEL GREEN ROOF PLAN	B-8
VIEW FROM TECHNOLOGY SQUARE - LOOKING SOUTH	A-18	CONCEPT MODEL	A-52	PLAYGROUND SITE CONTEXT	B-8
VIEW FROM TECHNOLOGY SQUARE - LOOKING SOUTH (TREES REMOVED	) A-19	EXTERIOR ELEVATION WALL TYPES	A-54	PLAYGROUND EQUIPMENT	B-8
VIEW FROM MAIN ST - LOOKING SOUTH	A-20	DETAILED MAIN STREET ELEVATION	A-55	PLAYGROUND SURFACING	B-8
VIEW FROM MAIN ST - LOOKING SOUTH (TREES REMOVED)	A-21	DETAILED ATRIUM ELEVATIONS	A-56	PLAYGROUND GRADING	B-9
AERIAL VIEW - LOOKING SOUTHEAST	A-22	DETAILED PORTLAND STREET ELEVATION	A-57	PLAYGROUND PLANTING	B-9
AERIAL VIEW - LOOKING SOUTHEAST (TREES REMOVED)	A-23	DETAILED ALBANY STREET ELEVATION	A-58	SHADOW STUDIES (MARCH & JUNE)	B-9
VIEW FROM MAIN ST - LOOKING WEST	A-24	PROPOSED WALL ASSEMBLY	A-59	SHADOW STUDIES (SEPTEMBER & DECEMBER)	B-9
VIEW FROM MAIN ST - LOOKING WEST (TREES REMOVED)	A-25	PROPOSED MATERIALS	A-60	SHADOW STUDIES - NET NEW SHADOWS LASTING	B-9
VIEW FROM ALBANY STREET - LOOKING NORTH	A-26			LONGER THAN 2 HOURS	
VIEW FROM ALBANY STREET - LOOKING NORTH (TREES REMOVED)	A-27				
VIEW FROM ALBANY STREET - LOOKING NORTHEAST	A-28	<b>VOLUME TWO (PART B) - GRAPHIC MATERIALS</b>		UTILITIES AND INFRASTRUCTURE	
VIEW FROM ALBANY STREET - LOOKING NORTHEAST (TREES REMOVED)	A-29			EXISTING CONDITIONS PLAN	B-9
VIEW OF ALBANY ENTRANCE - LOOKING NORTH	A-30	STREET SECTIONS		EXISTING DOMESTIC WATER PLAN	B-9
VIEW OF ALBANY ENTRANCE - LOOKING NORTH (TREES REMOVED)	A-31	MAIN STREET SECTION AT SEMINAR GARDEN (EXISTING)	B-61	PROPOSED DOMESTIC WATER PLAN	B-9
VIEW OF PARKING ENTRANCE - LOOKING NORTH	A-32	MAIN STREET SECTION AT SEMINAR GARDEN (PROPOSED)	B-62	EXISTING STORM DRAIN PLAN	B-9
VIEW OF PARKING ENTRANCE - LOOKING NORTH (TREES REMOVED)	A-33	MAIN STREET SECTION AT OCULUS	B-63	PROPOSED STORM DRAIN PLAN	B-9
		MAIN STREET SECTION AT COLLOQUIUM ROOM	B-64	EXISTING SEWER PLAN	B-1
		PORTLAND STREET SECTION AT BUILDING ENTRANCE	B-65	PROPOSED SEWER PLAN	B-1
		PORTLAND STREET SECTION AT CHILD CARE GARDEN	B-66		
		TYPICAL ALBANY STREET SECTION	B-67		

#### **VOLUME THREE - TRANSPORTATION IMPACT STUDY**



#### **EXISTING CONDITIONS PLAN**



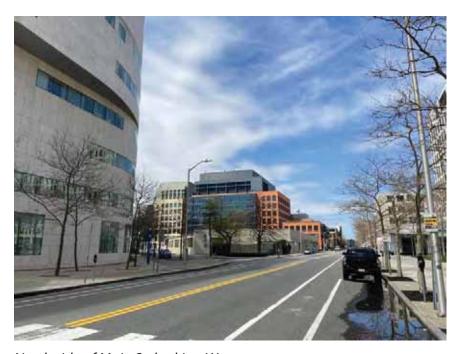
#### **EXISTING CONDITIONS PHOTOGRAPHS**



North side of Main St, looking West



South side of Main St, looking East (adjacent to 600 Main)



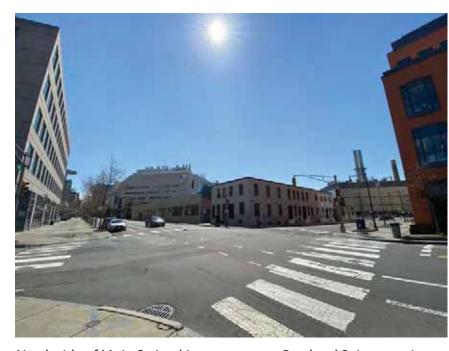
North side of Main St, looking West



North Side of Main St, Looking South at 624 Main



North side of Main St, looking Southwest towards Albany St



North side of Main St, Looking east across Portland St intersection



#### **EXISTING CONDITIONS PHOTOGRAPHS**



East side of Portland St, looking south towards Albany St



South Side of Albany St, Looking North



South Side of Albany Street, Looking Northeast



South Side of Albany Street, Looking West



East side of Portland St, northeast along Albany towards main St

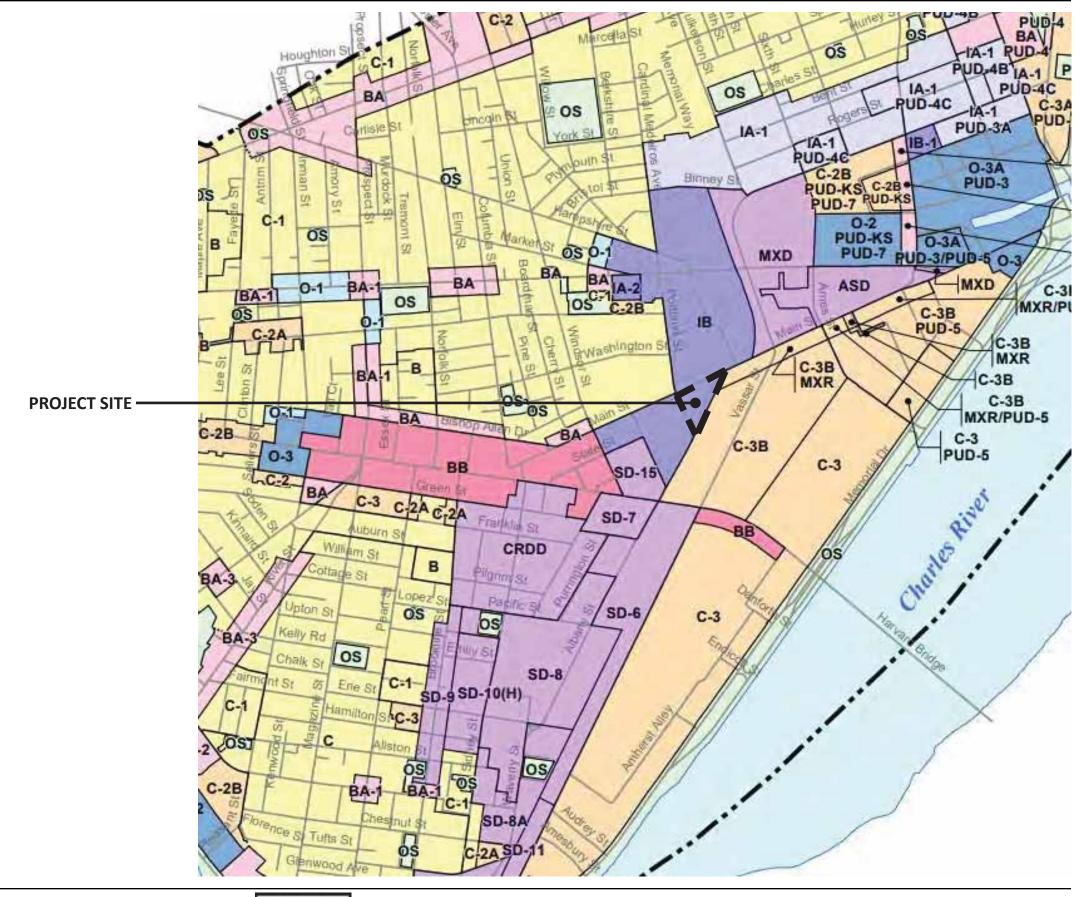


South side of Main St, looking southwest along Albany St

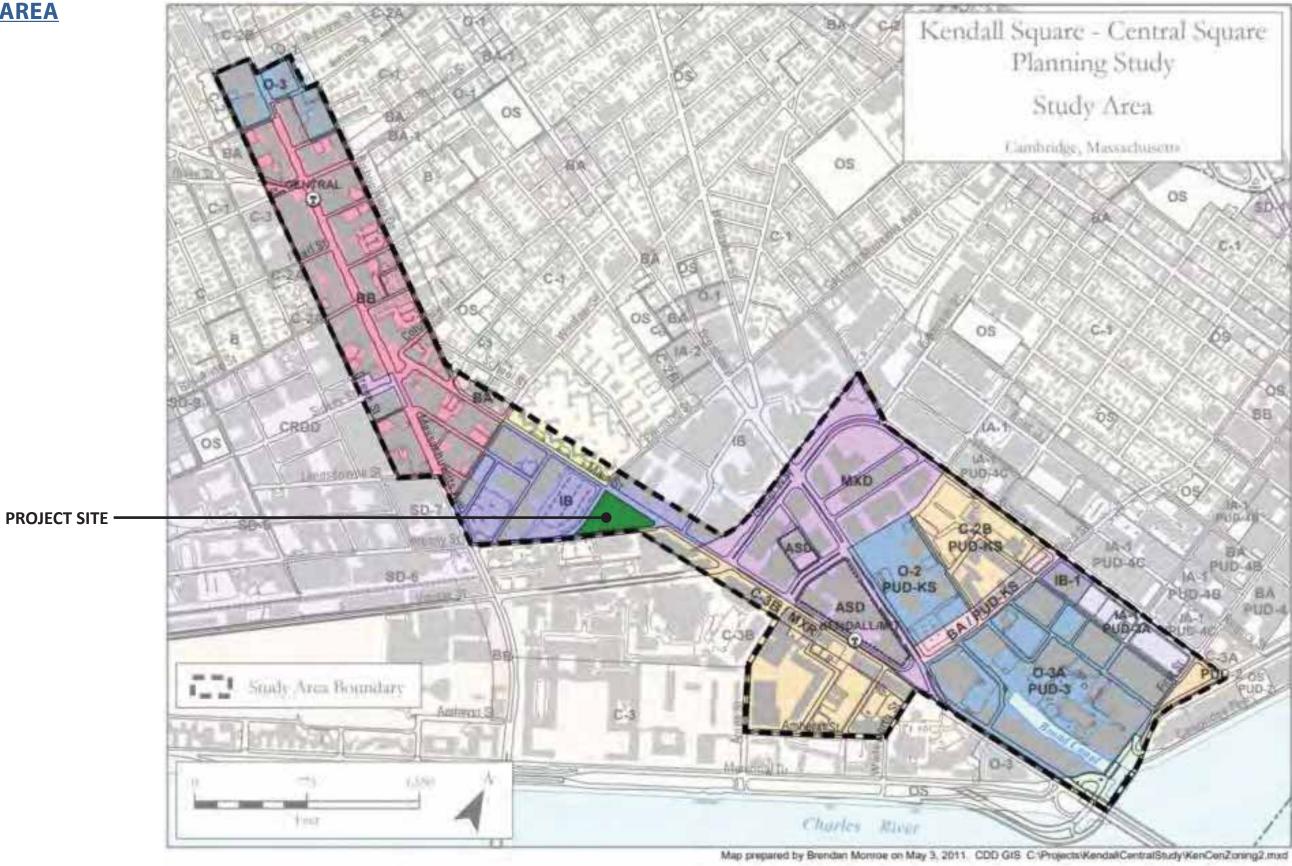
#### **SITE CONTEXT PLAN**



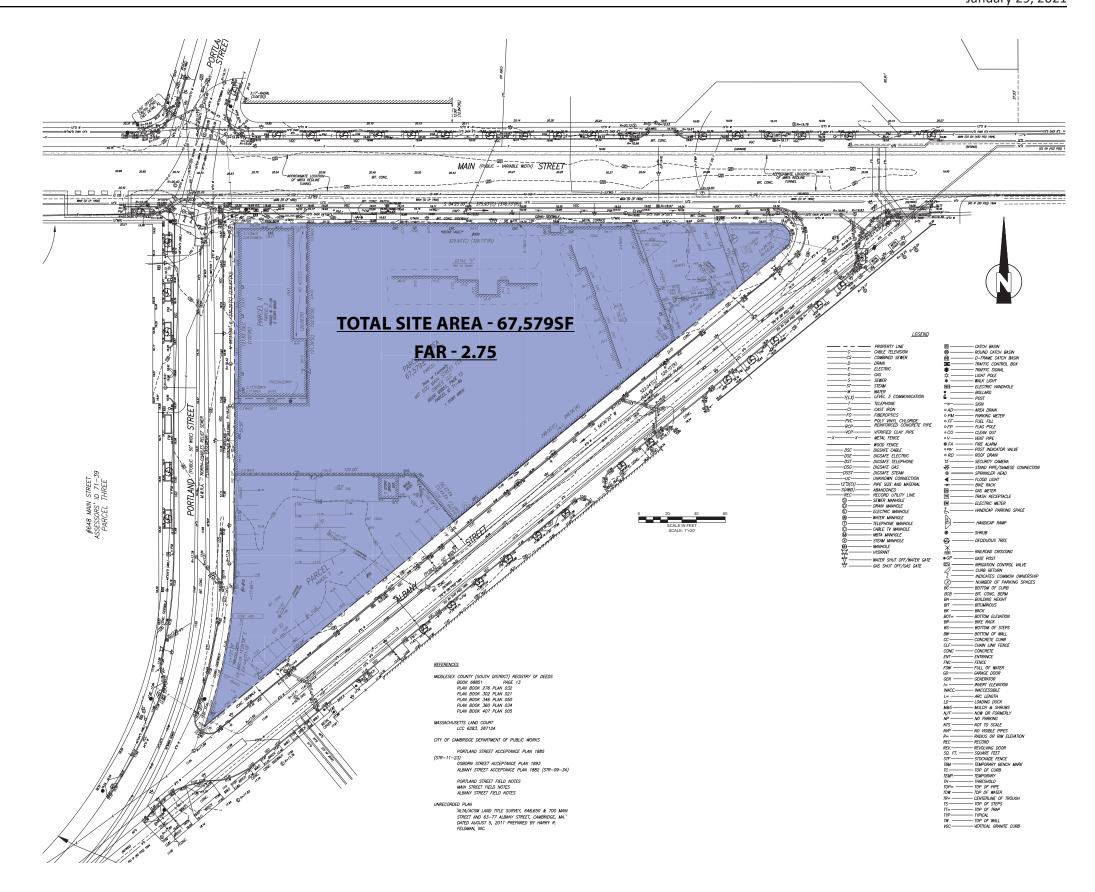
#### **ZONING MAP**



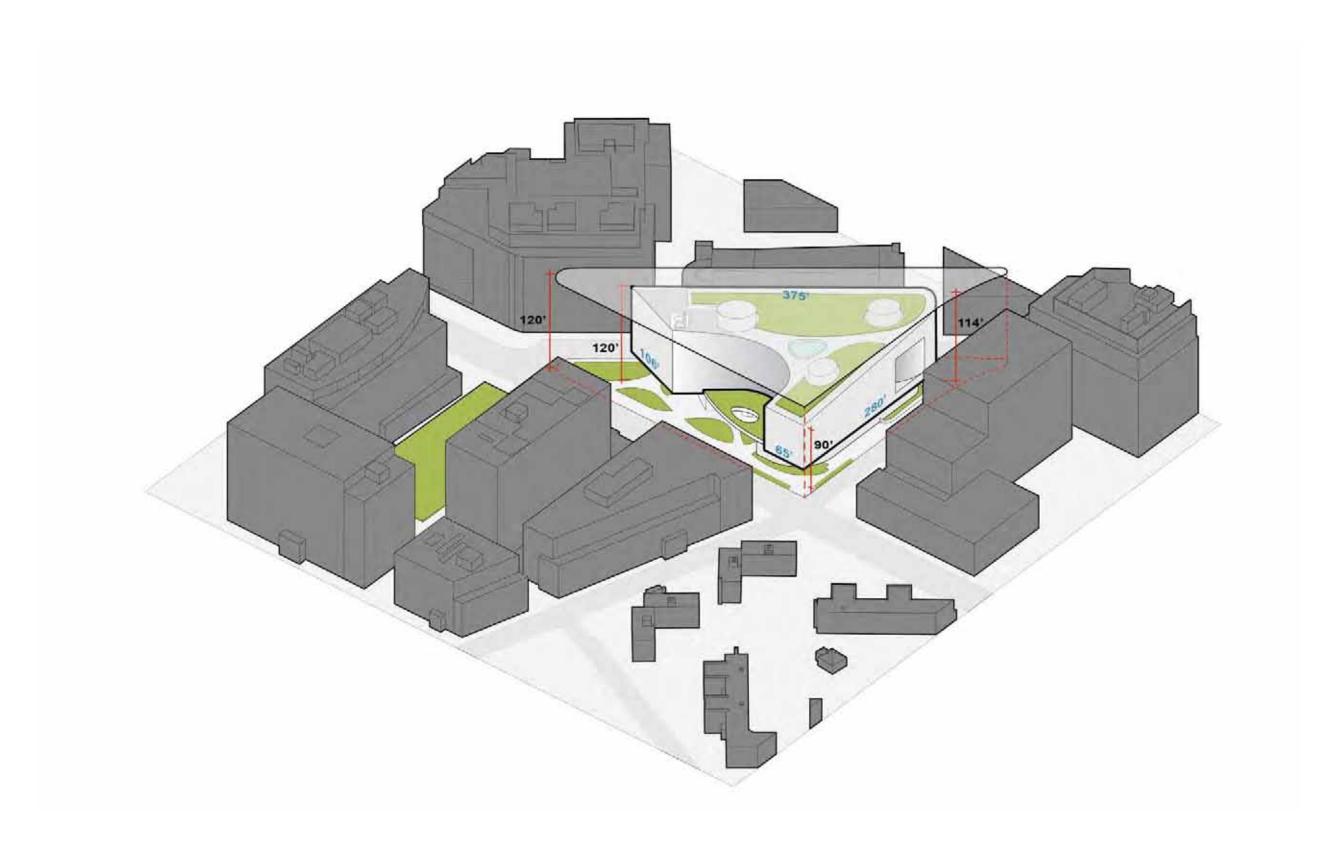
#### **K2C2 STUDY AREA**



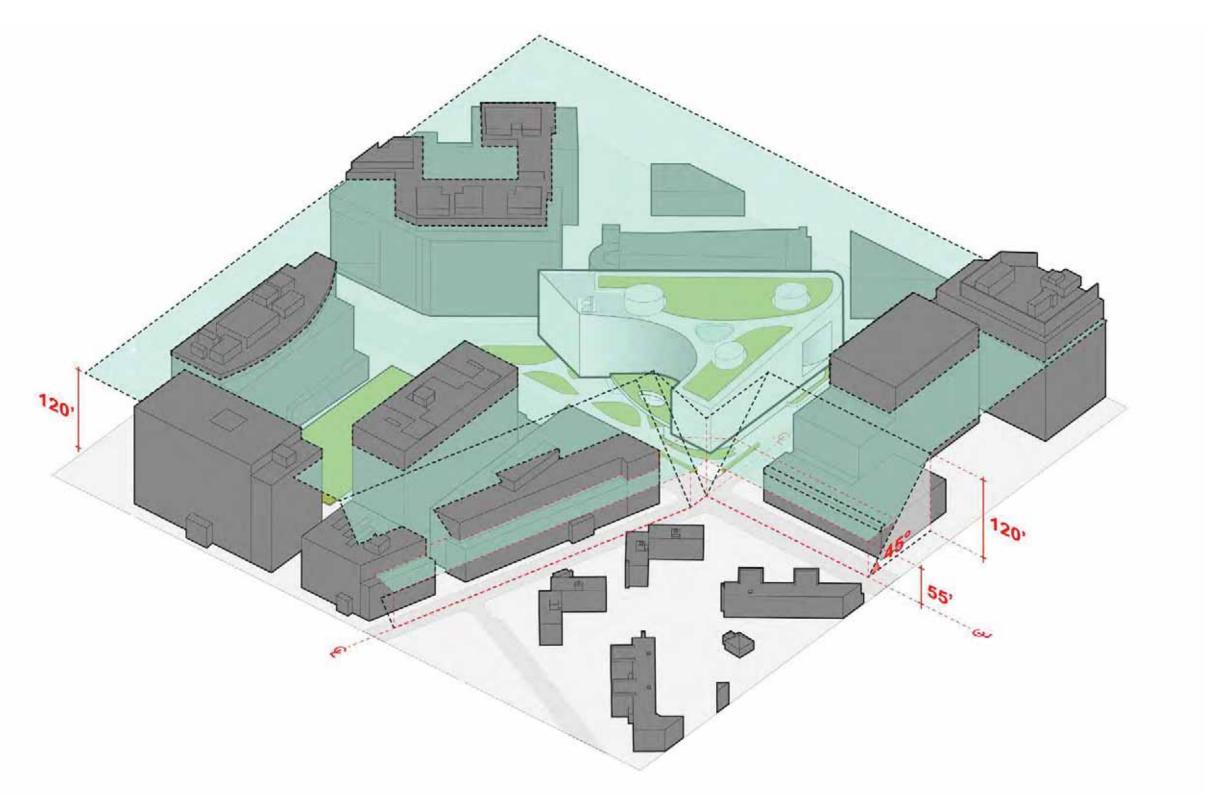
#### **EXISTING SITE BOUNDARY**



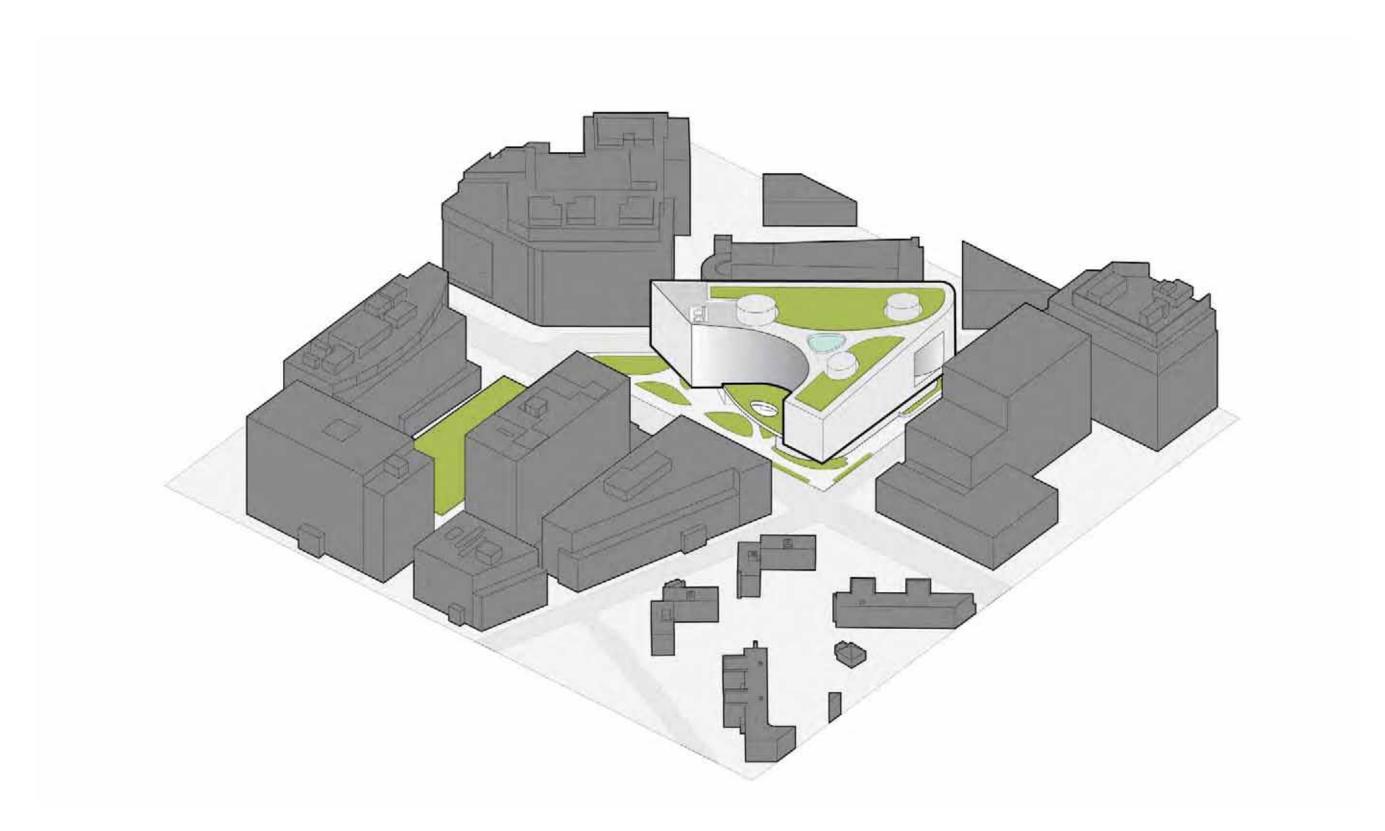
#### **ZONING ANALYSIS - HEIGHT LIMITS**



### **ZONING ANALYSIS - BULK CONTROL PLANE**



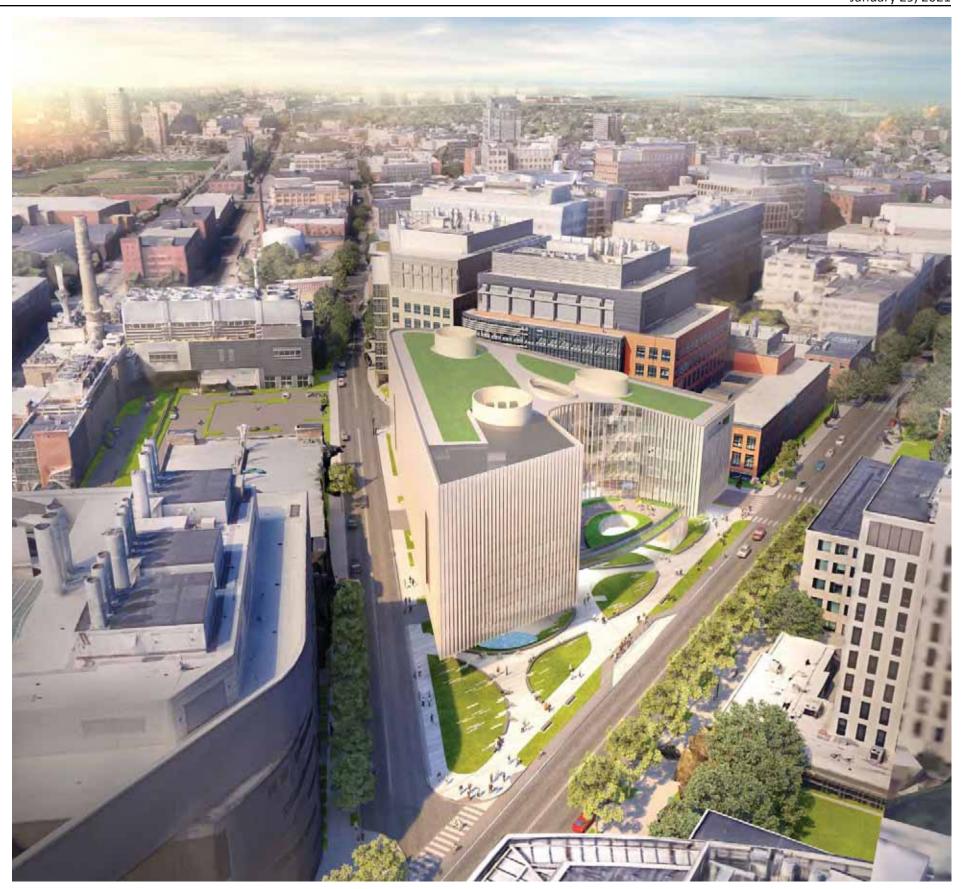
#### **BUILDING MASSING**



#### **AERIAL VIEW LOOKING SOUTHWEST**



## AERIAL VIEW LOOKING SOUTHWEST (TREES REMOVED)



# VIEW FROM MAIN ST (NORTH SIDE) LOOKING WEST



## VIEW FROM MAIN ST (NORTH SIDE) LOOKING WEST (TREES REMOVED)



# VIEW FROM MAIN ST (SOUTH SIDE) LOOKING WEST



# VIEW FROM MAIN ST (SOUTH SIDE) LOOKING WEST (TREES REMOVED)



## VIEW FROM TECHNOLOGY SQUARE LOOKING SOUTH



VIEW FROM TECHNOLOGY SQUARE LOOKING SOUTH (TREES REMOVED)



### VIEW FROM MAIN ST LOOKING SOUTH



## VIEW FROM MAIN ST LOOKING SOUTH (TREES REMOVED)



### AERIAL VIEW LOOKING SOUTHEAST



### AERIAL VIEW LOOKING SOUTHEAST (TREES REMOVED)



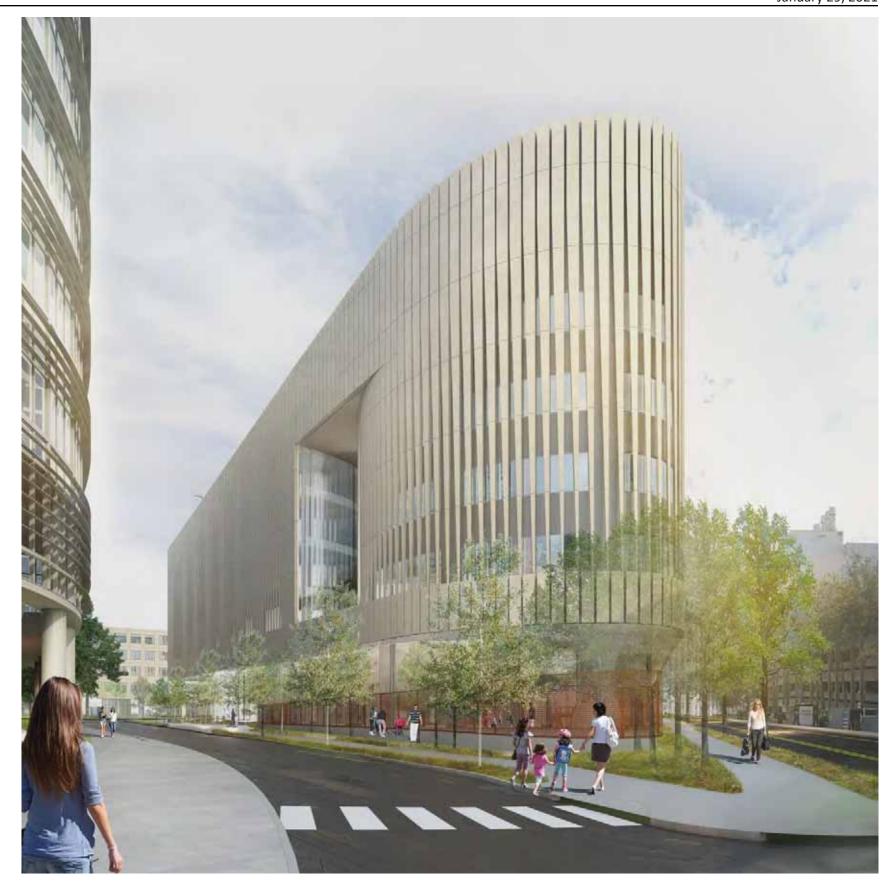
### VIEW FROM MAIN ST LOOKING EAST



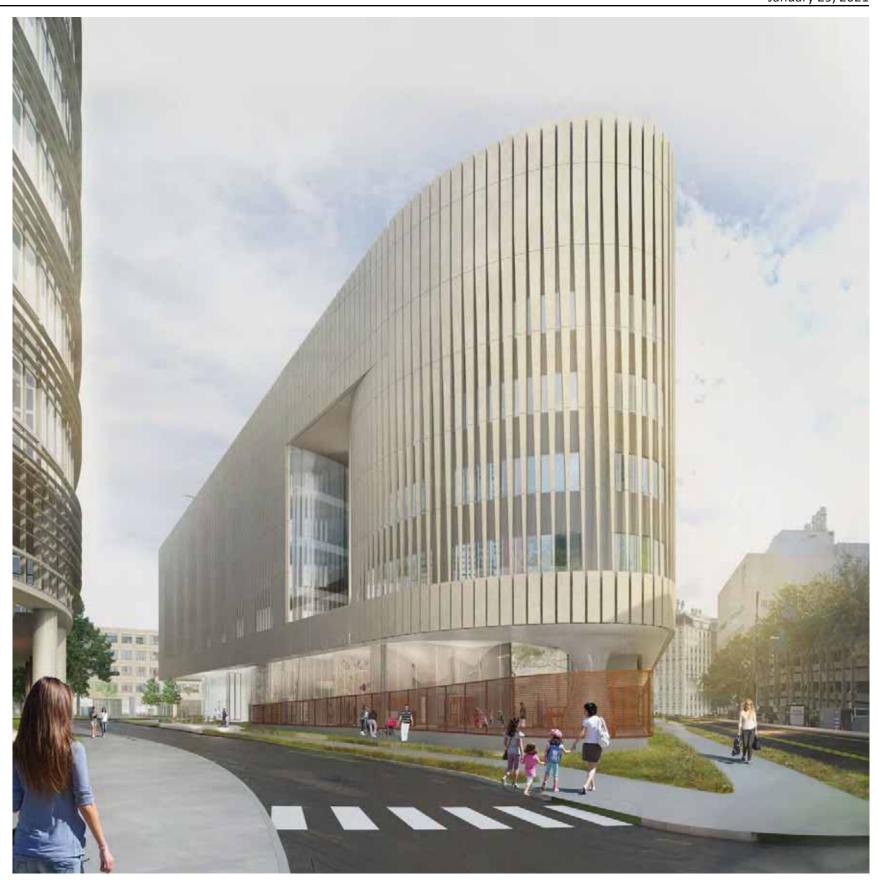
## VIEW FROM MAIN ST LOOKING EAST (TREES REMOVED)



# VIEW FROM ALBANY STREET LOOKING NORTH



# VIEW FROM ALBANY STREET LOOKING NORTH(TREES REMOVED)



# VIEW FROM ALBANY STREET LOOKING NORTHEAST



## VIEW FROM ALBANY STREET LOOKING NORTHEAST (TREES REMOVED)



## VIEW OF ALBANY ENTRANCE LOOKING NORTH



## VIEW OF ALBANY ENTRANCE LOOKING NORTH (TREES REMOVED)

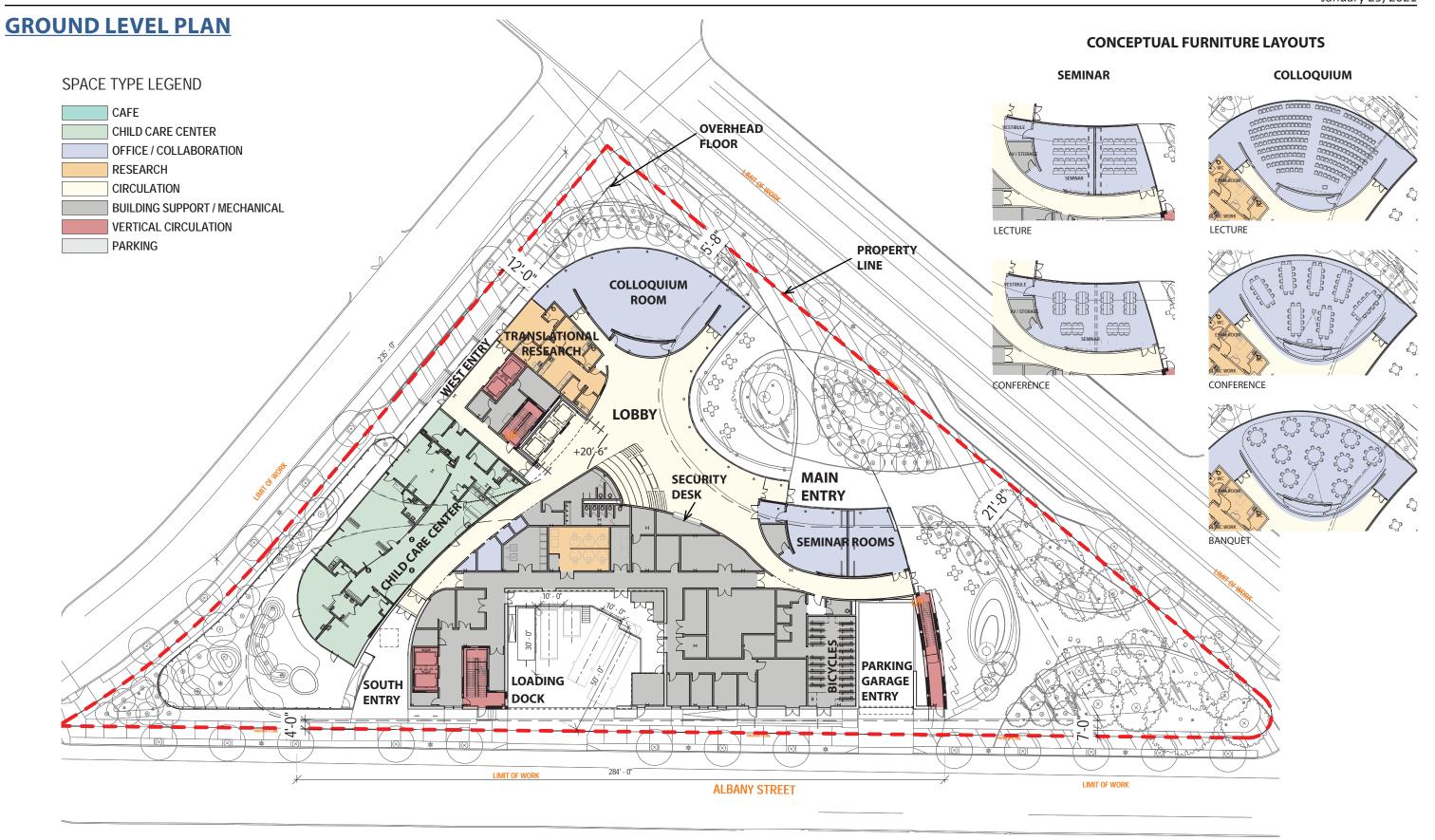


### VIEW OF PARKING ENTRANCE LOOKING NORTH



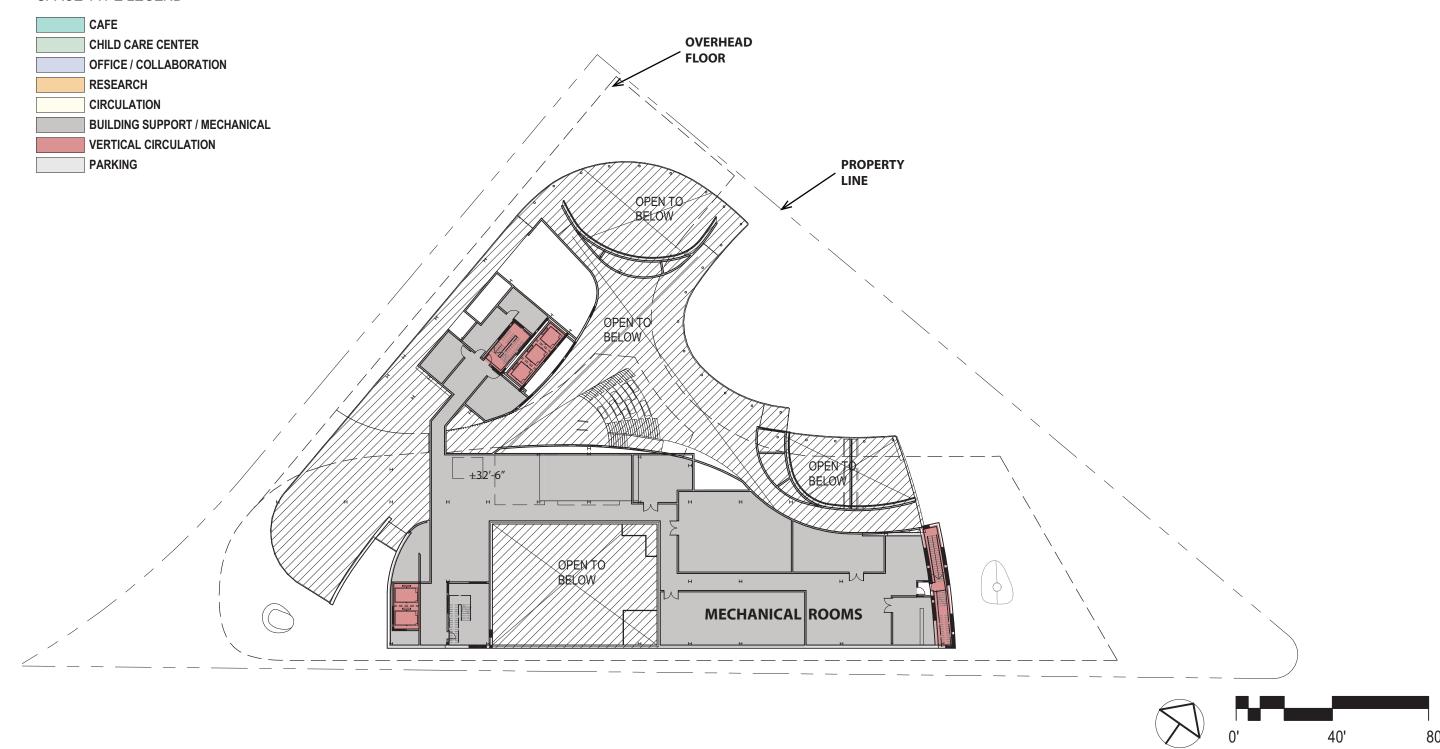
### VIEW OF PARKING ENTRANCE LOOKING NORTH (TREES REMOVED)





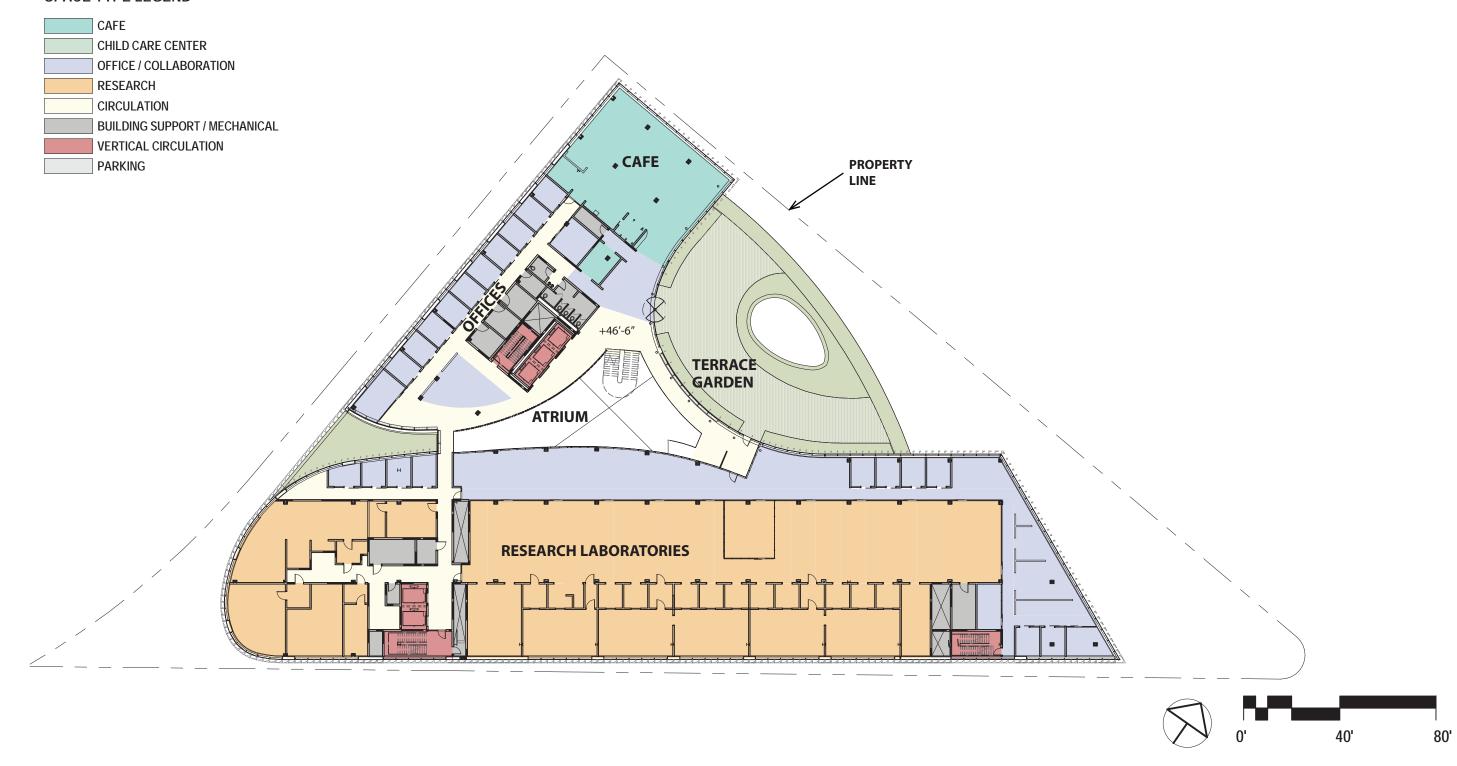
#### **MECHANICAL PLATFORM PLAN**

#### SPACE TYPE LEGEND



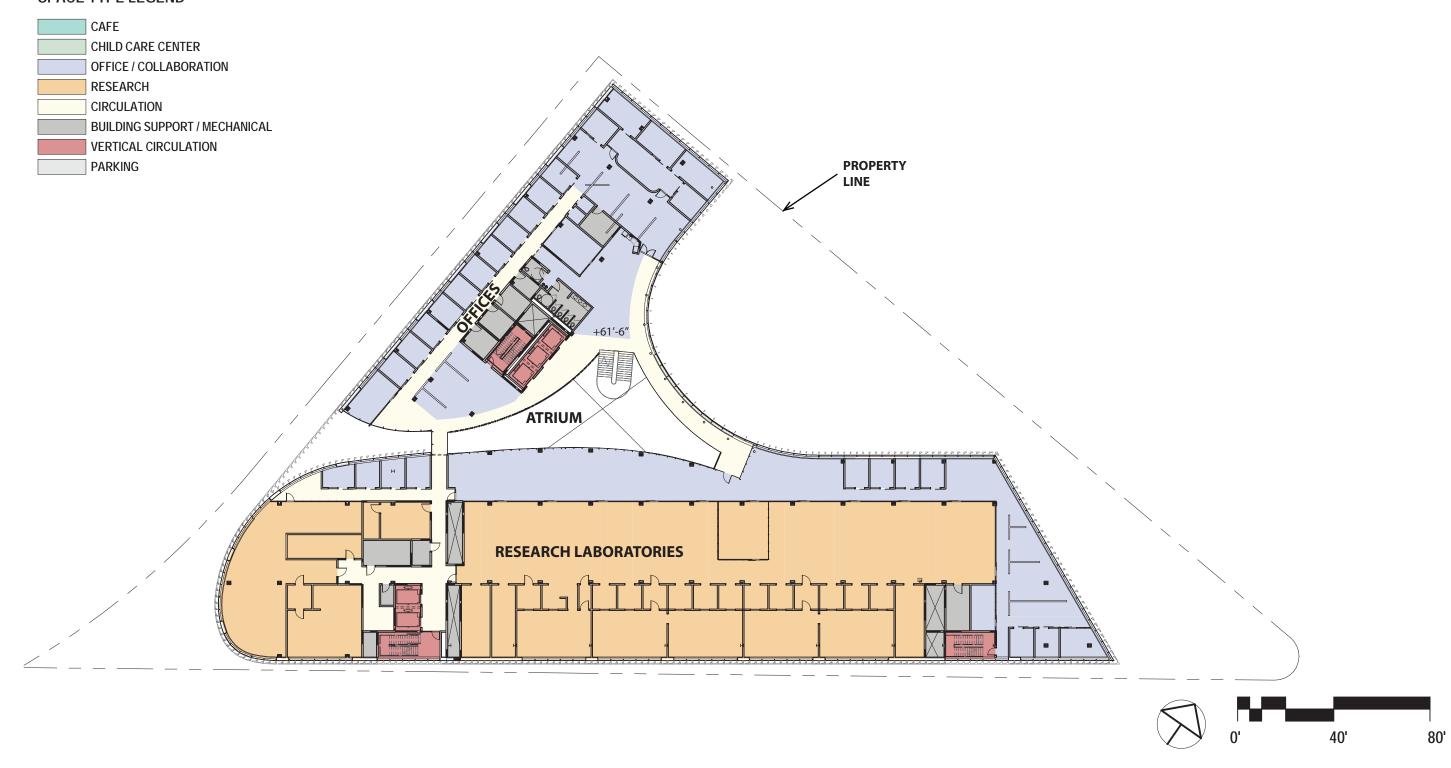
## **SECOND LEVEL PLAN**

### SPACE TYPE LEGEND



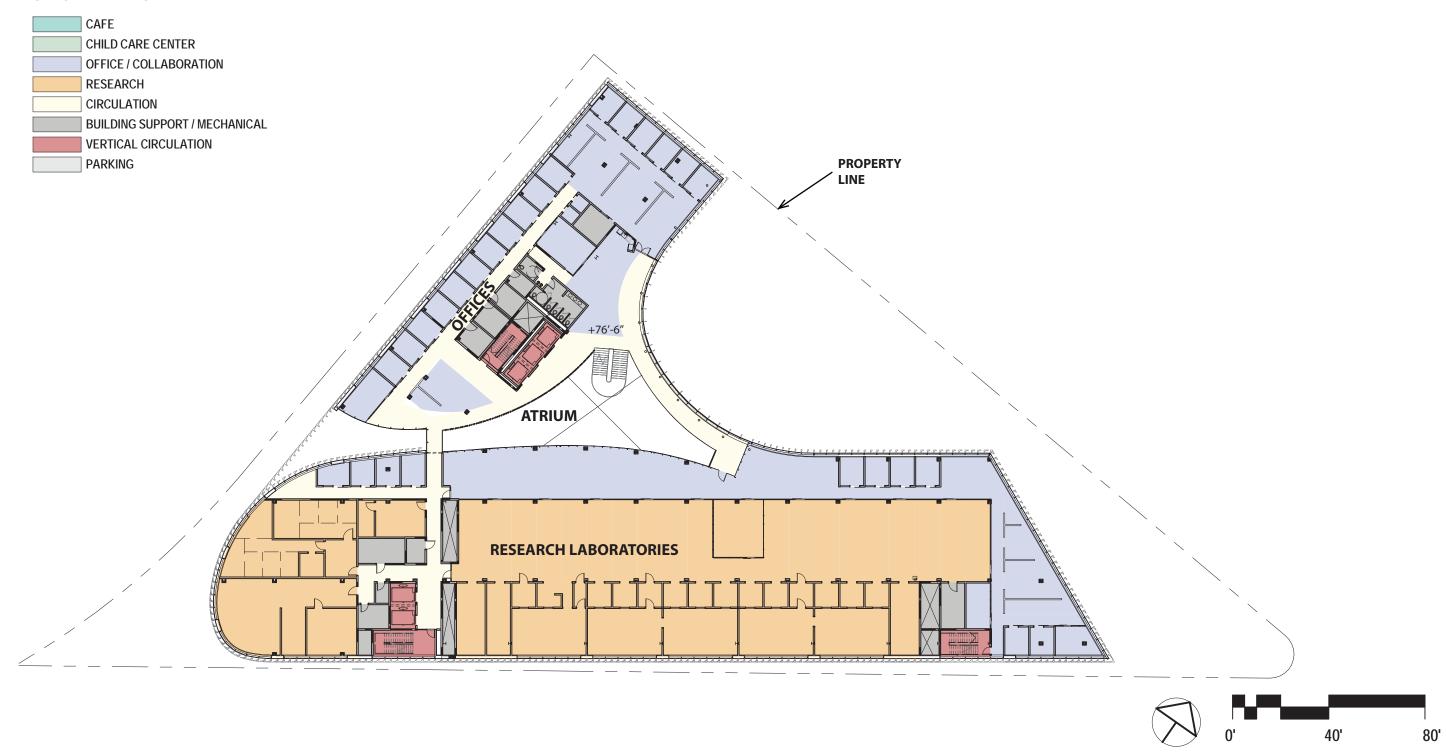
## **THIRD LEVEL PLAN**

### SPACE TYPE LEGEND



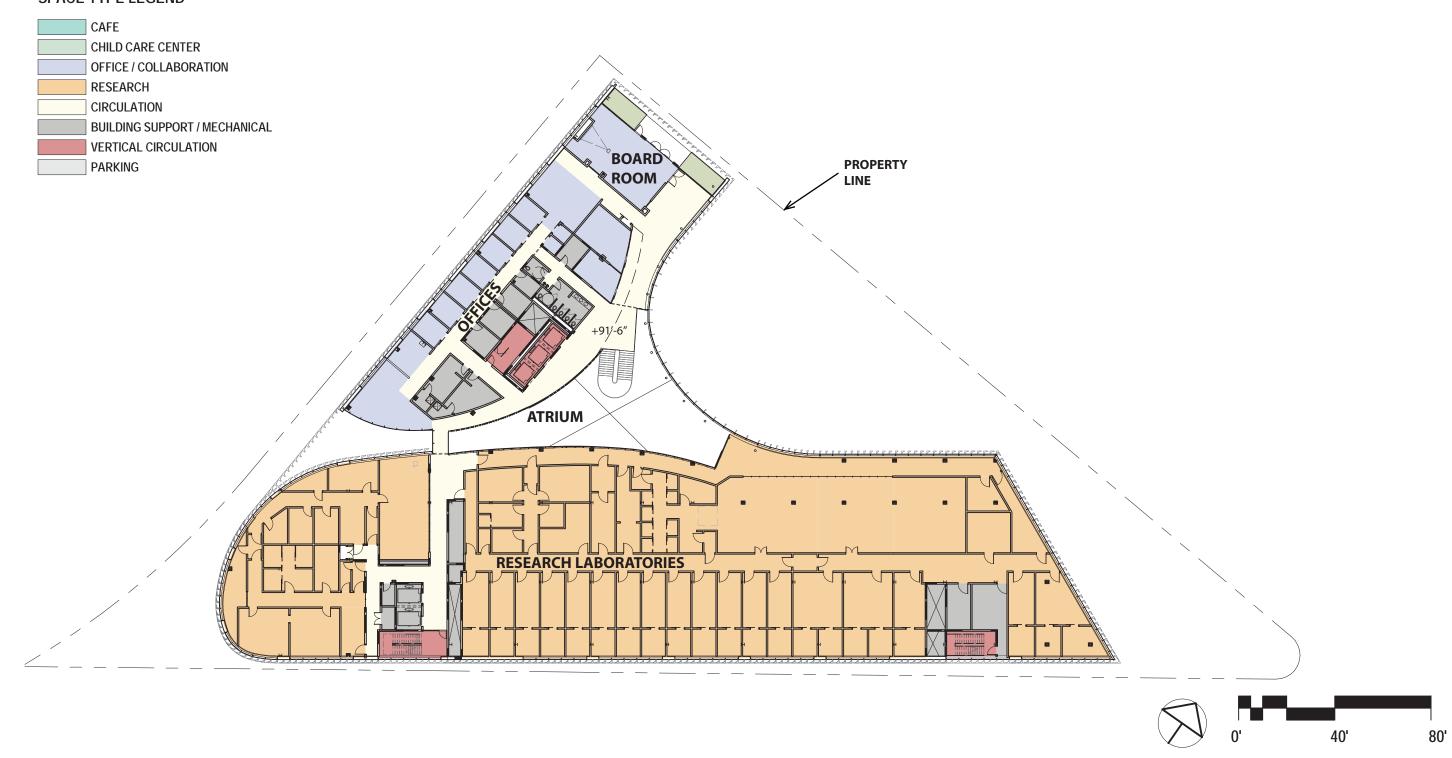
## **FOURTH LEVEL PLAN**





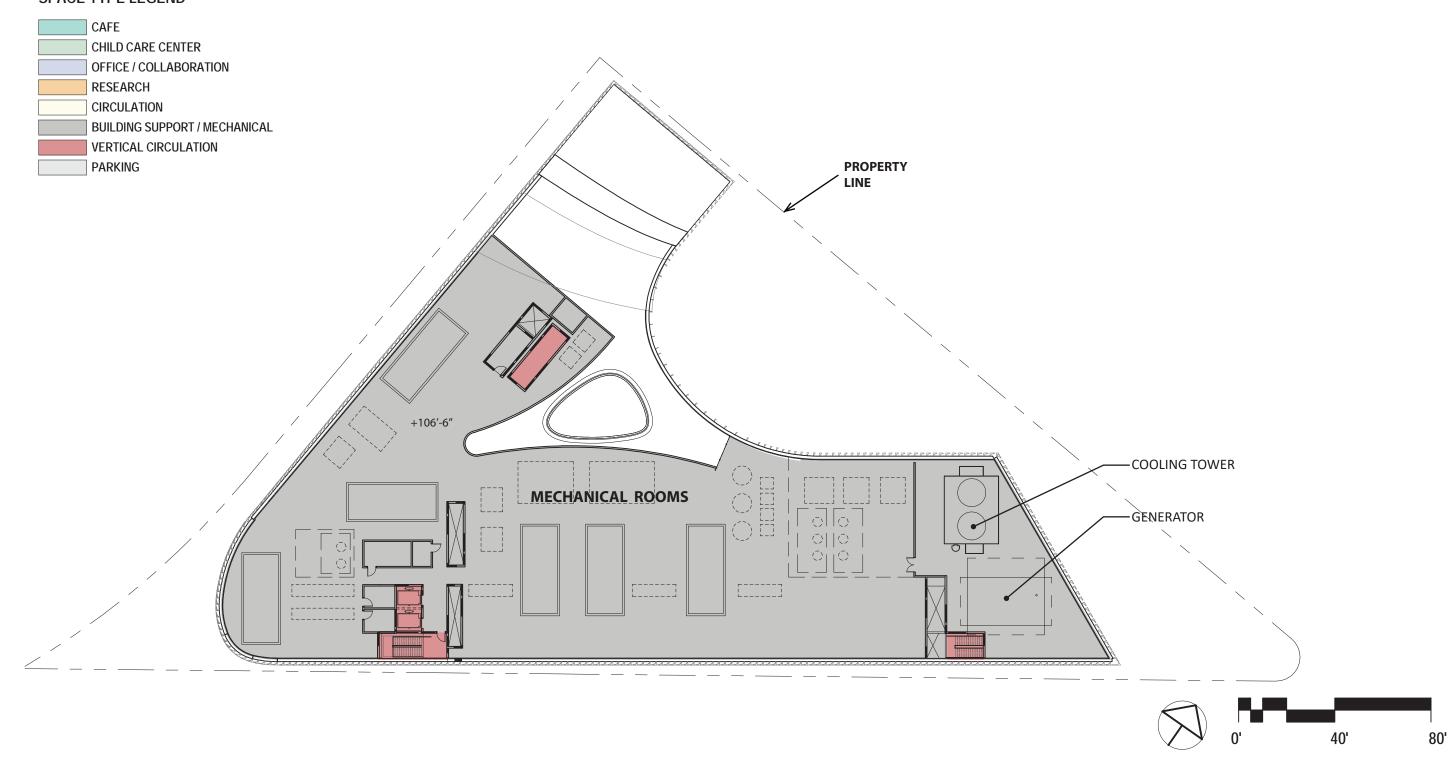
## **FIFTH LEVEL PLAN**

### SPACE TYPE LEGEND

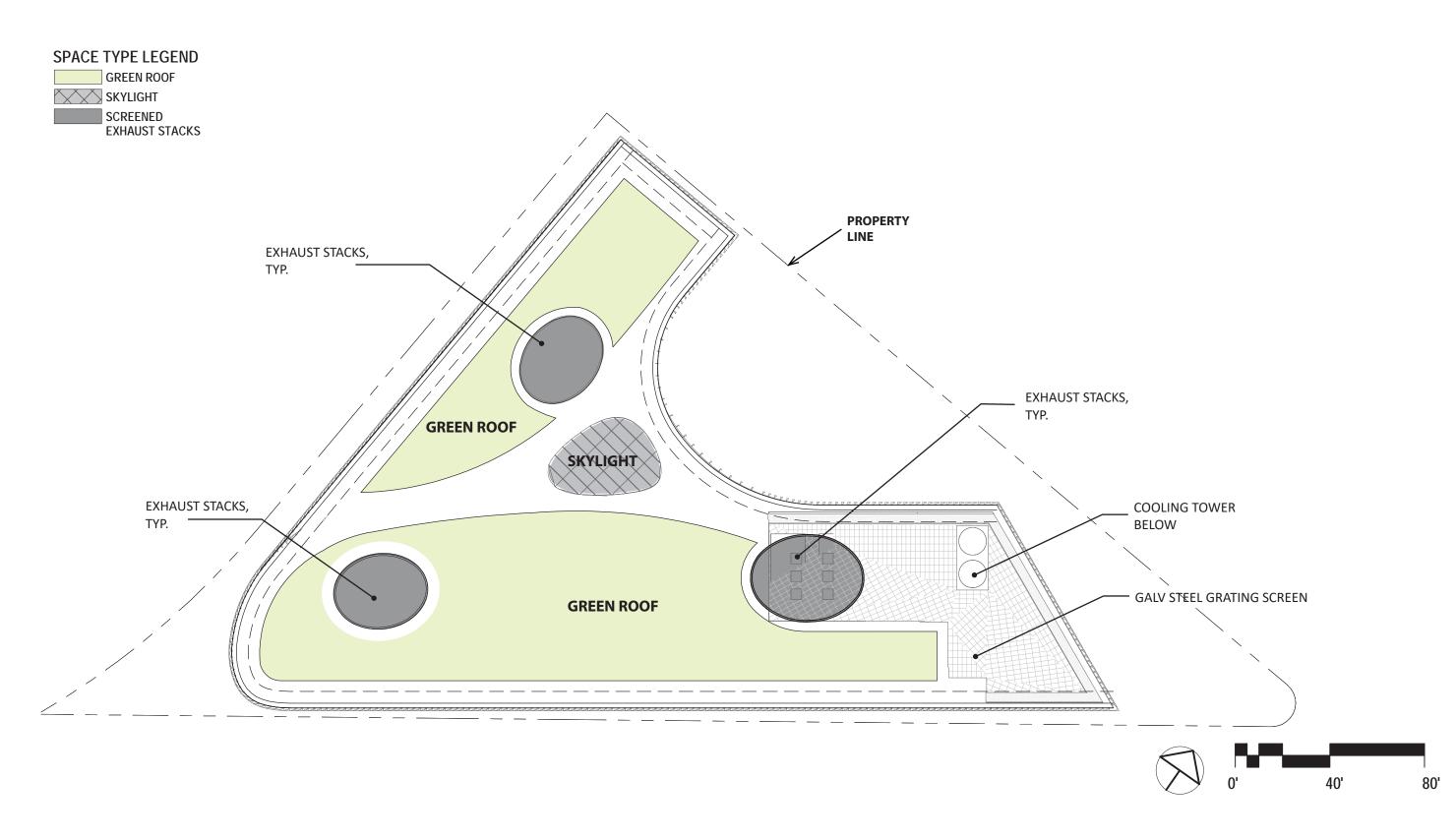


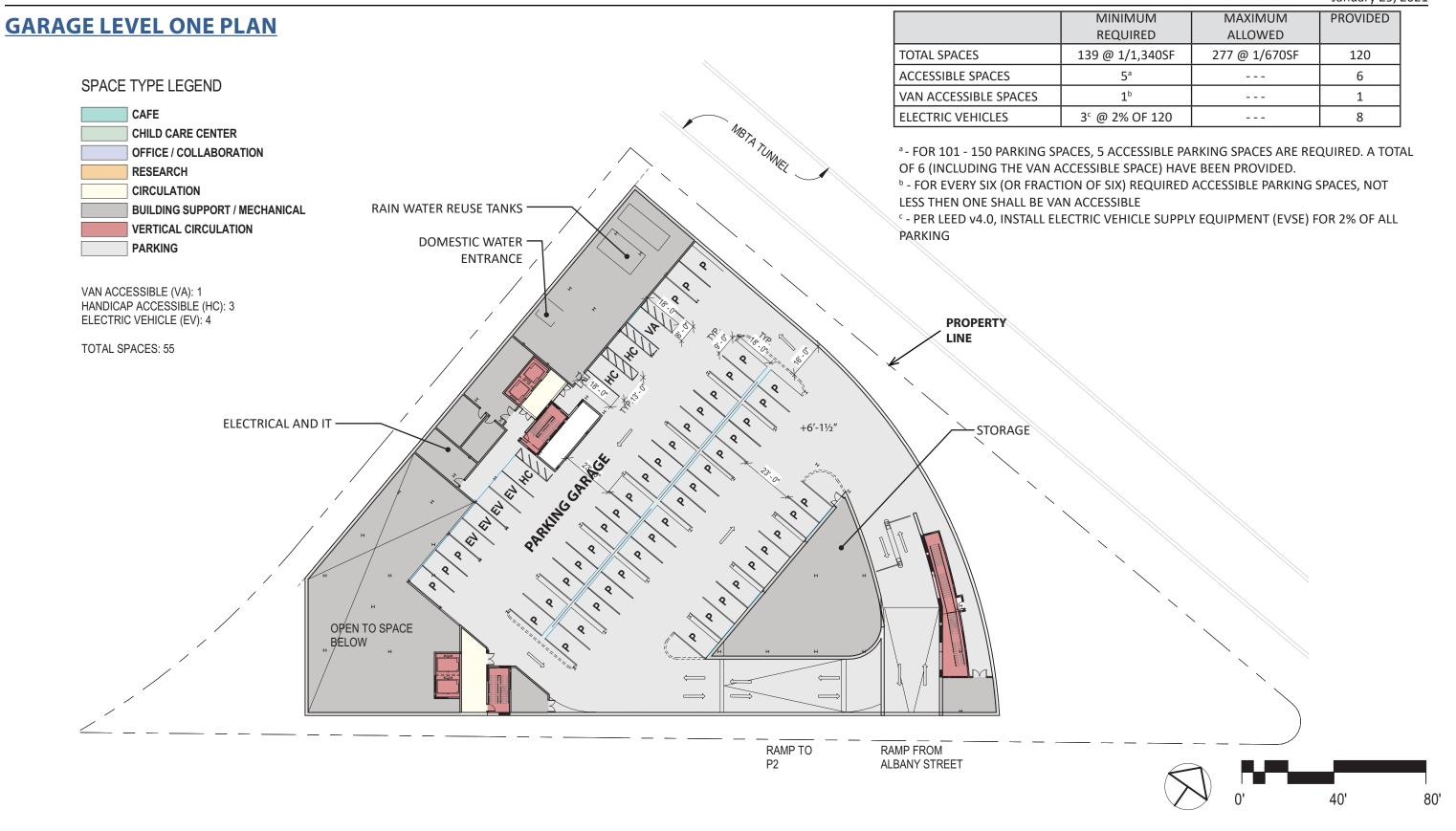
### **MECHANICAL LEVEL PLAN**

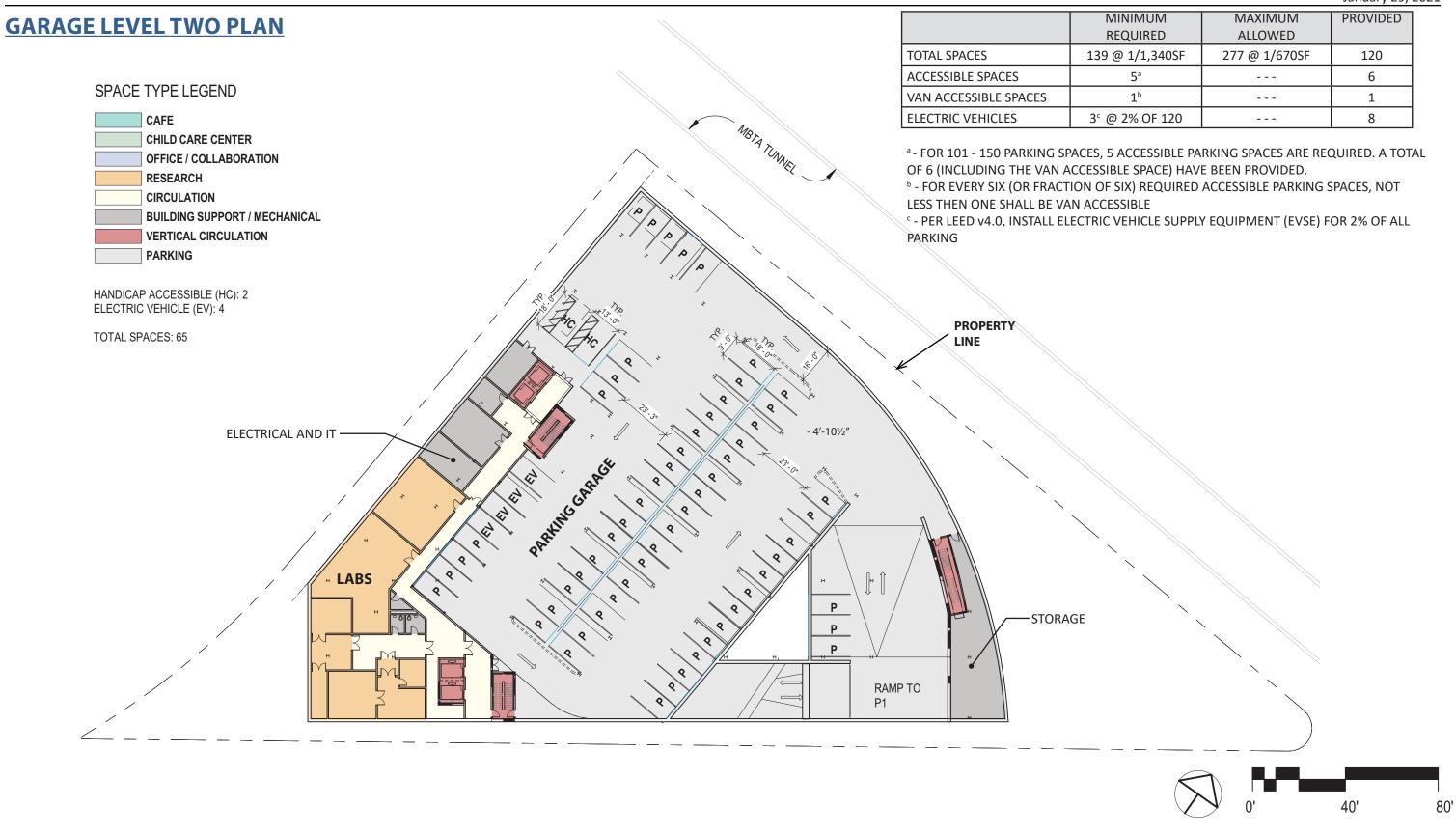
### SPACE TYPE LEGEND



## **ROOF LEVEL PLAN**

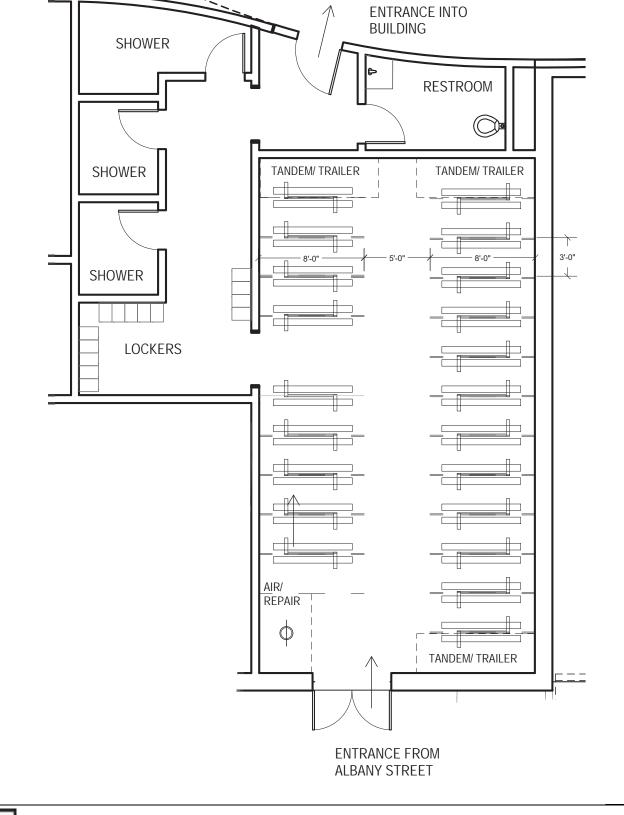


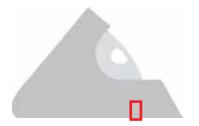




# **BICYCLE PARKING PLAN**

	ZONING	REQUIRED	PROVIDED
	CATEGORY	SPACES	SPACES
LONG-TERM	N2	41 @ 0.22/1,000SF	41
OVER-SIZE LONG-TERM		3 @ 5% OF TOTAL	3
SHORT-TERM	N5	12 @ 0.06/1,000SF	12







### **BUILDING SECTIONS**

#### SPACE TYPE LEGEND

CAFE
CHILD CARE CENTER
OFFICE / COLLABORATION

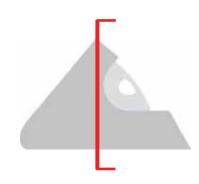
RESEARCH

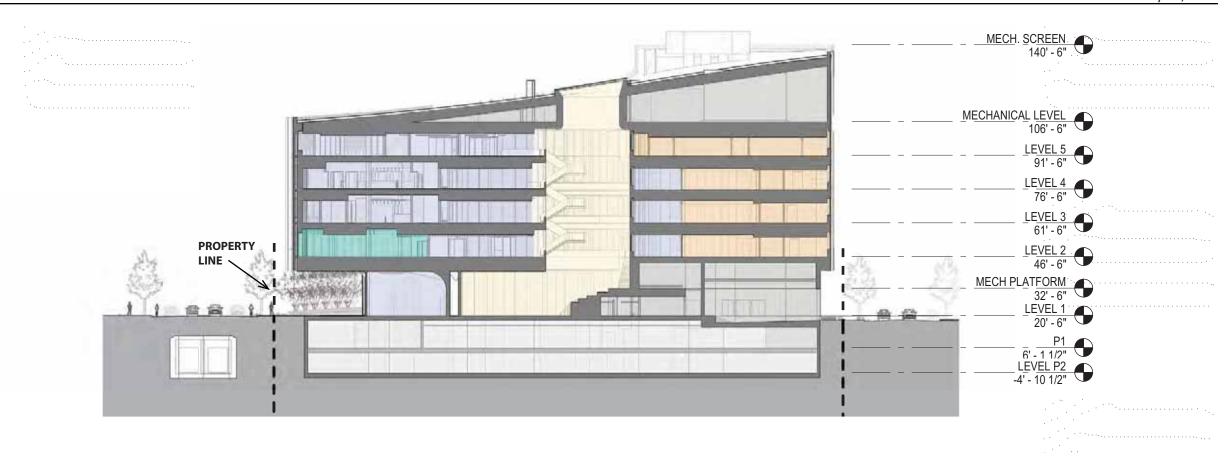
CIRCULATION

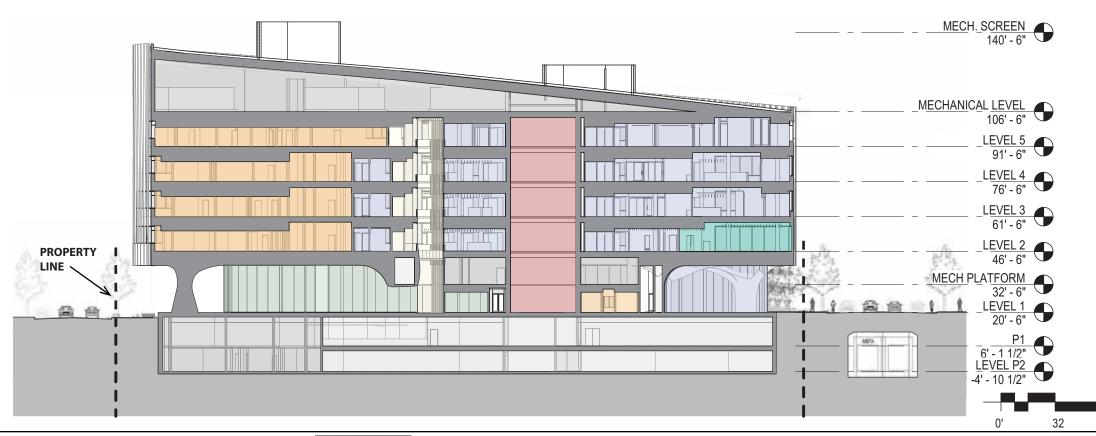
BUILDING SUPPORT / MECHAN

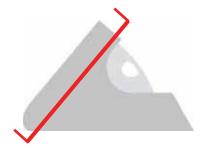
VERTICAL CIRCULATION

PARKING











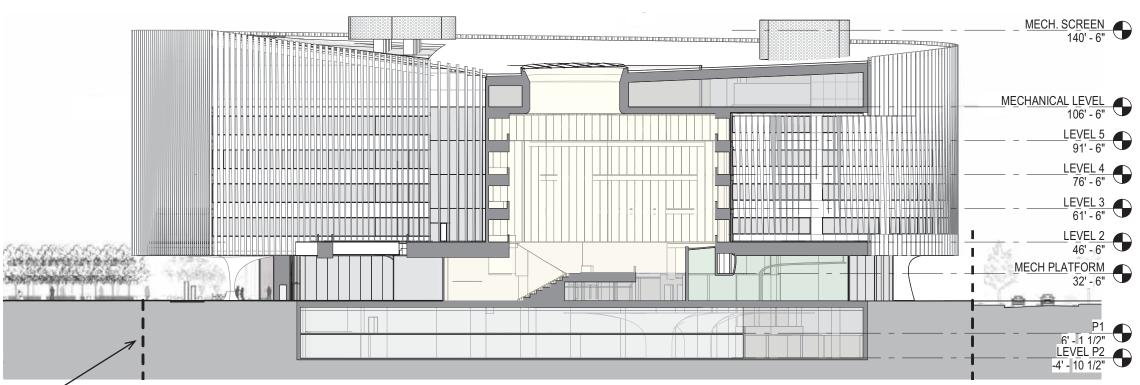
64

### **BUILDING SECTIONS**

#### SPACE TYPE LEGEND

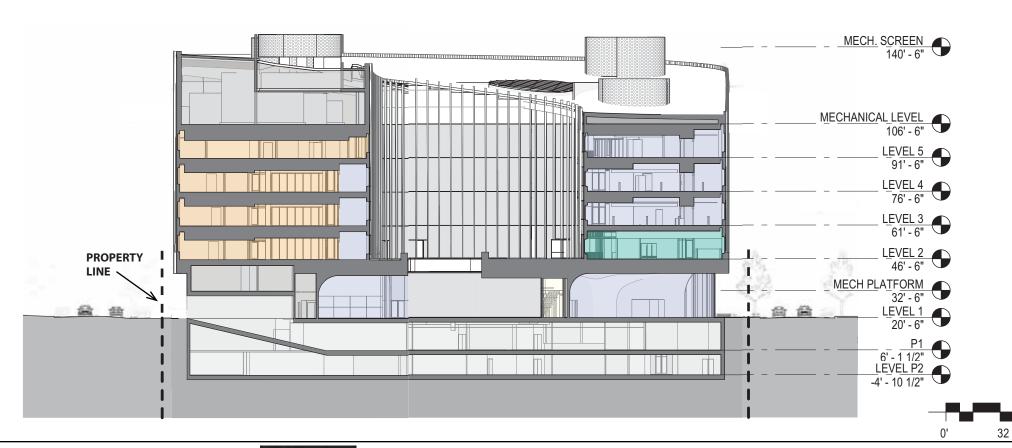






NOTE: Section cut crosses property line parallel to Main St.

Elevation of the building shown in the distance does not extend over actual property line.



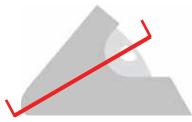






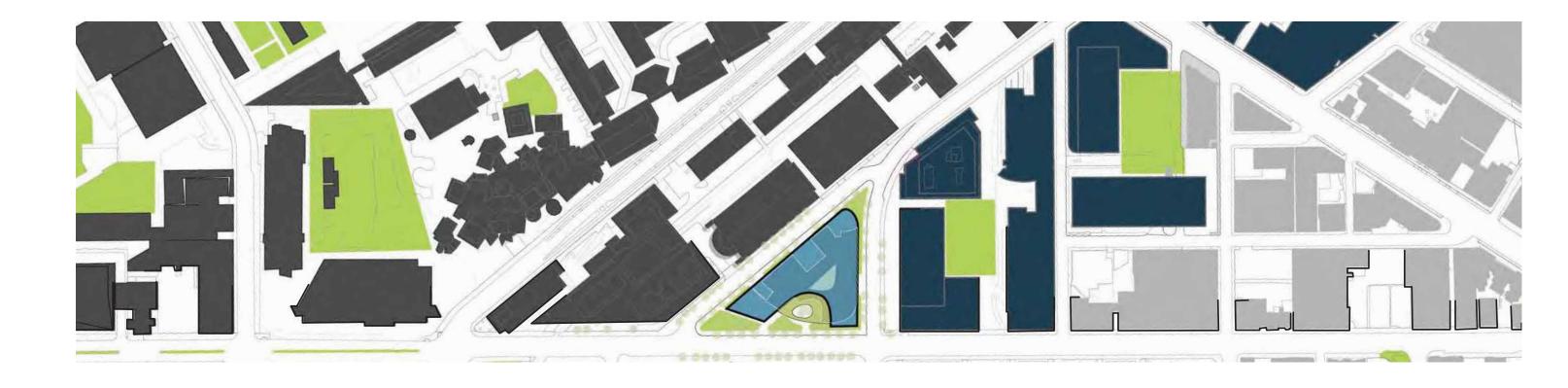
64

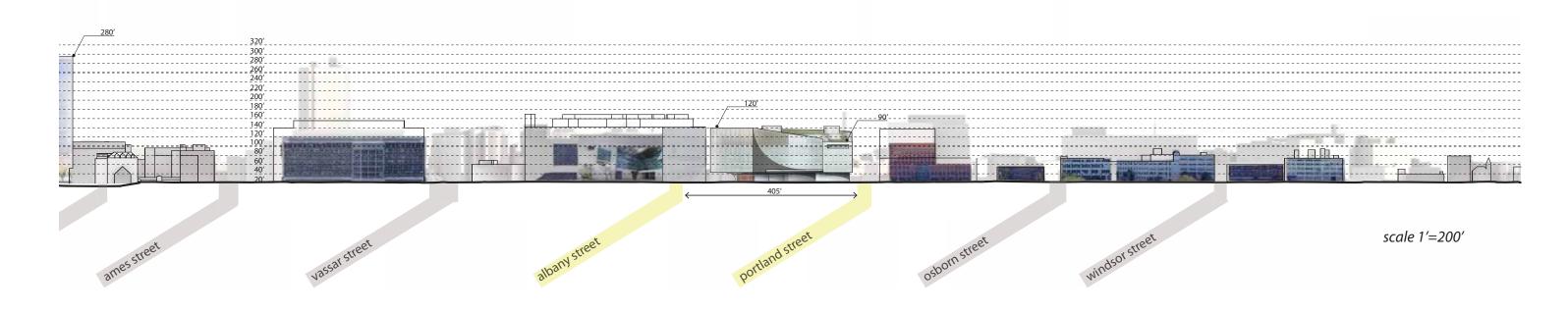
# **ATRIUM SECTION**



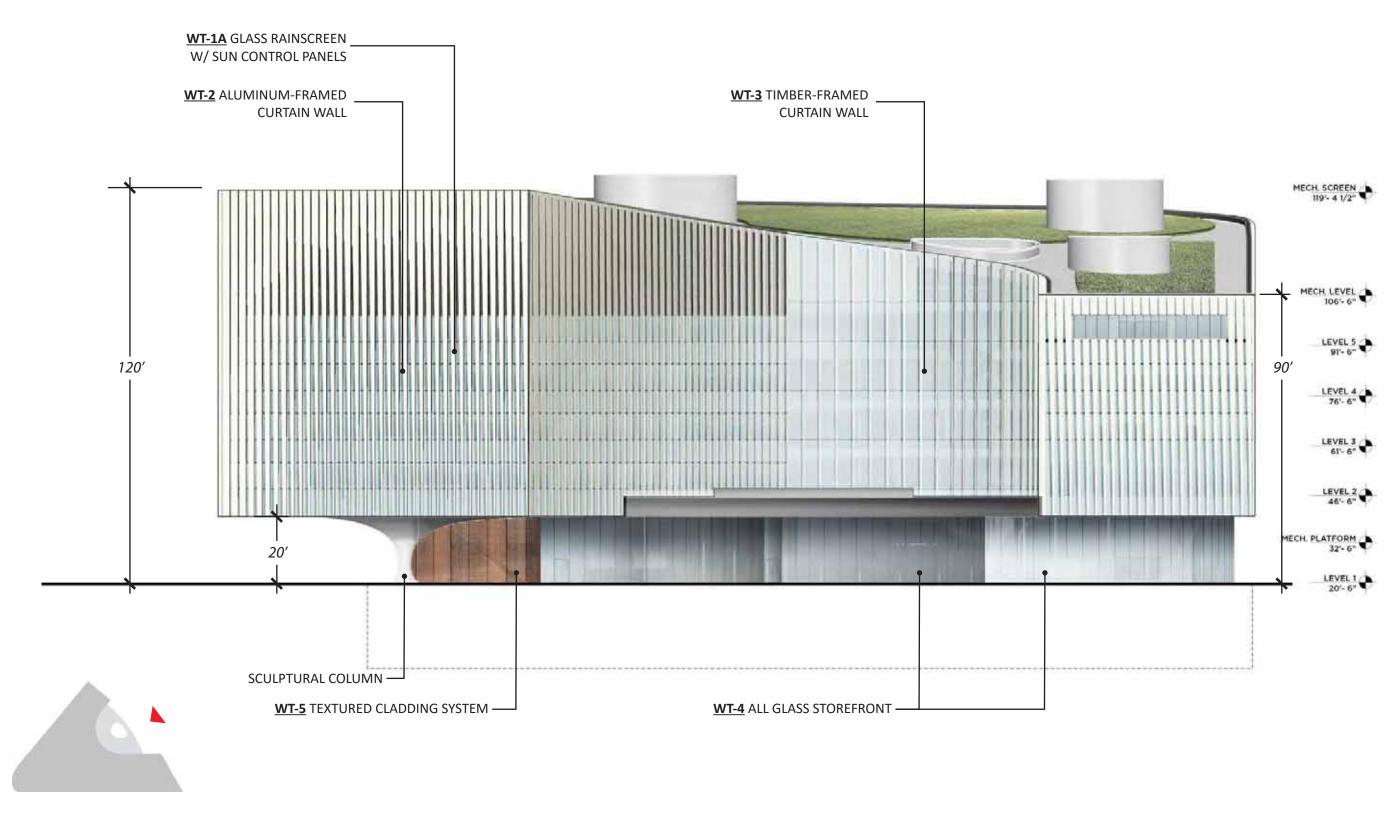


## **STREETWALL ELEVATION**

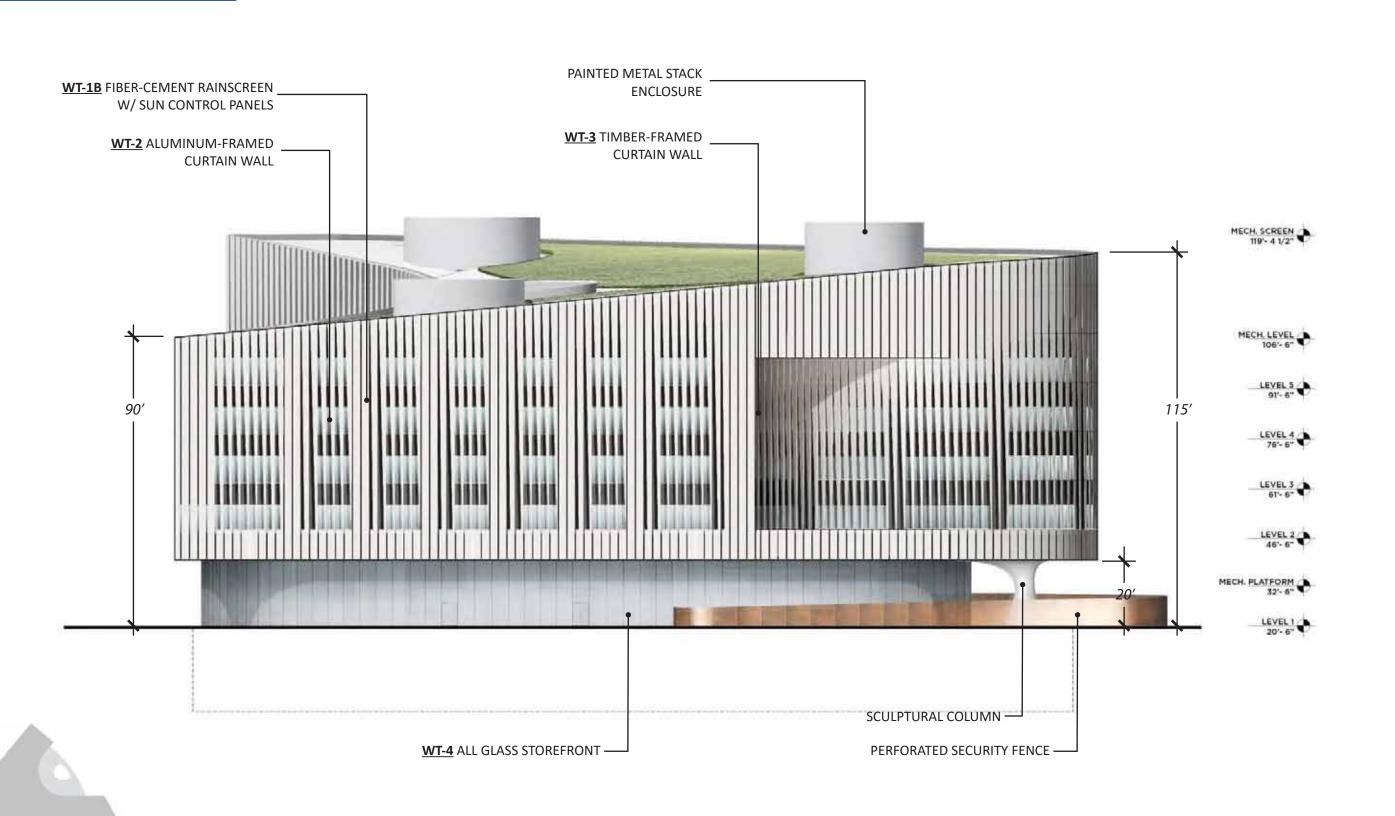




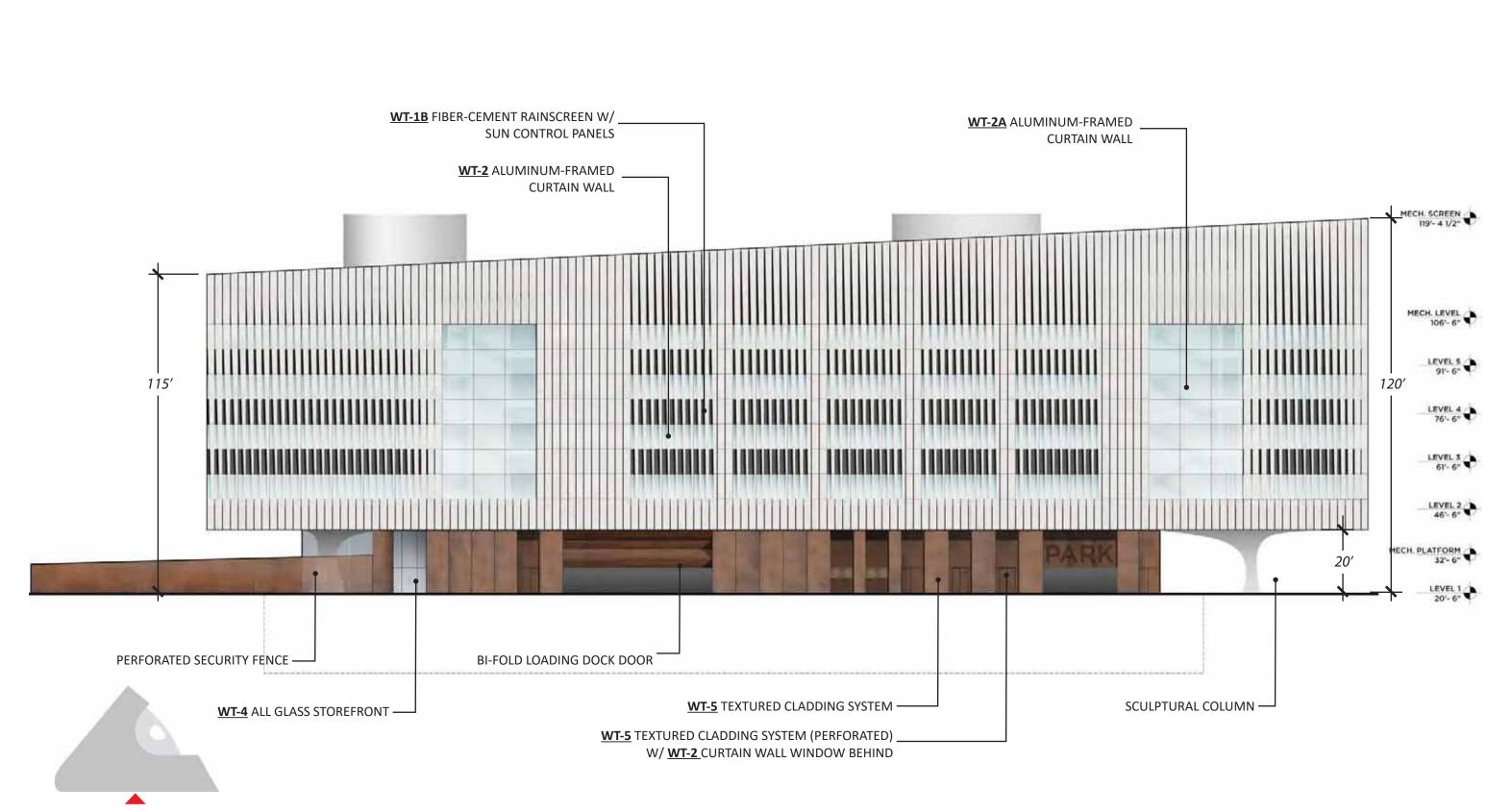
## **MAIN ST ELEVATION**



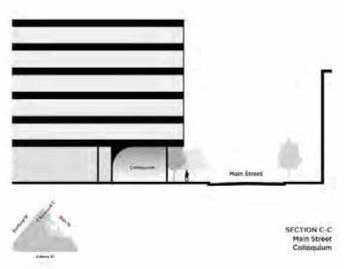
### **PORTLAND ST ELEVATION**



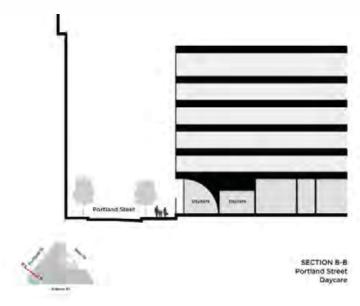
### **PORTLAND ST ELEVATION**



## **CONCEPT MODEL**



Section through Colloquium Room



Section through Child Care Center







## **CONCEPT MODEL**



Sculptural Column at West End



Sculptural Column at West End



Sculptural Column at East End



Sculptural Column at East End

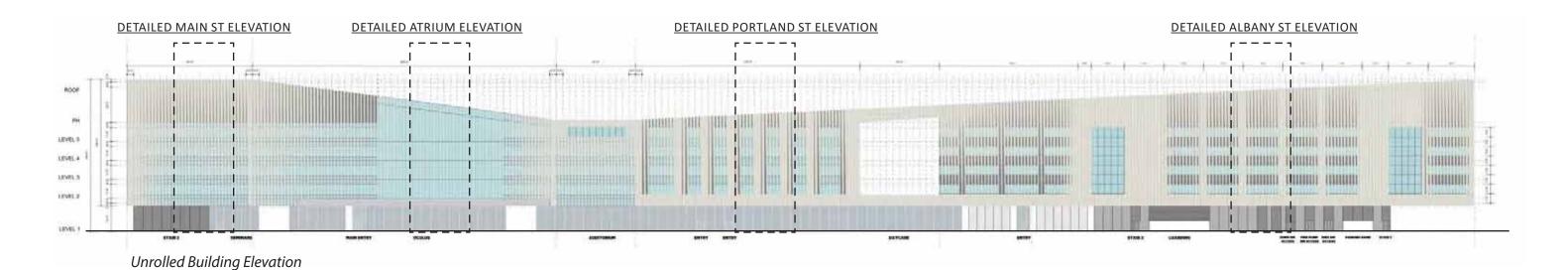


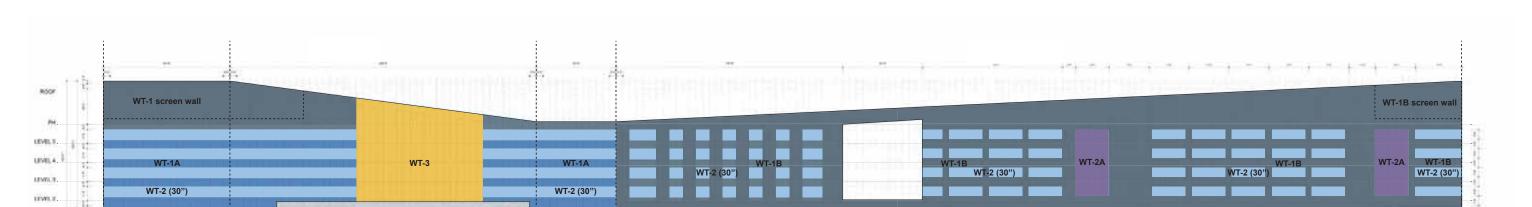
PAYETTE

WT-5

----

### **EXTERIOR ELEVATION WALL TYPES**





WT-4

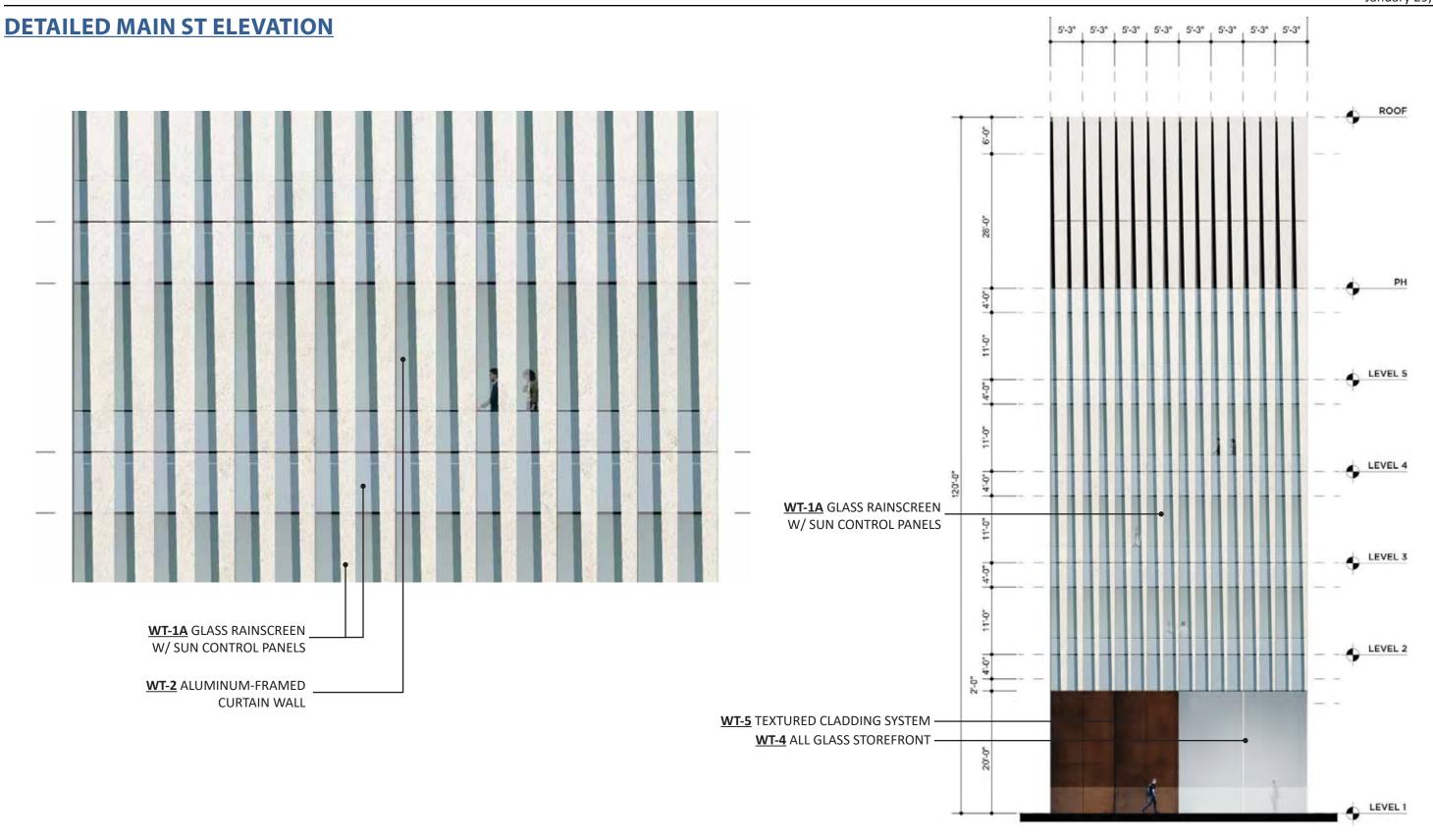
Unrolled Elevation Wall Types

WT-4

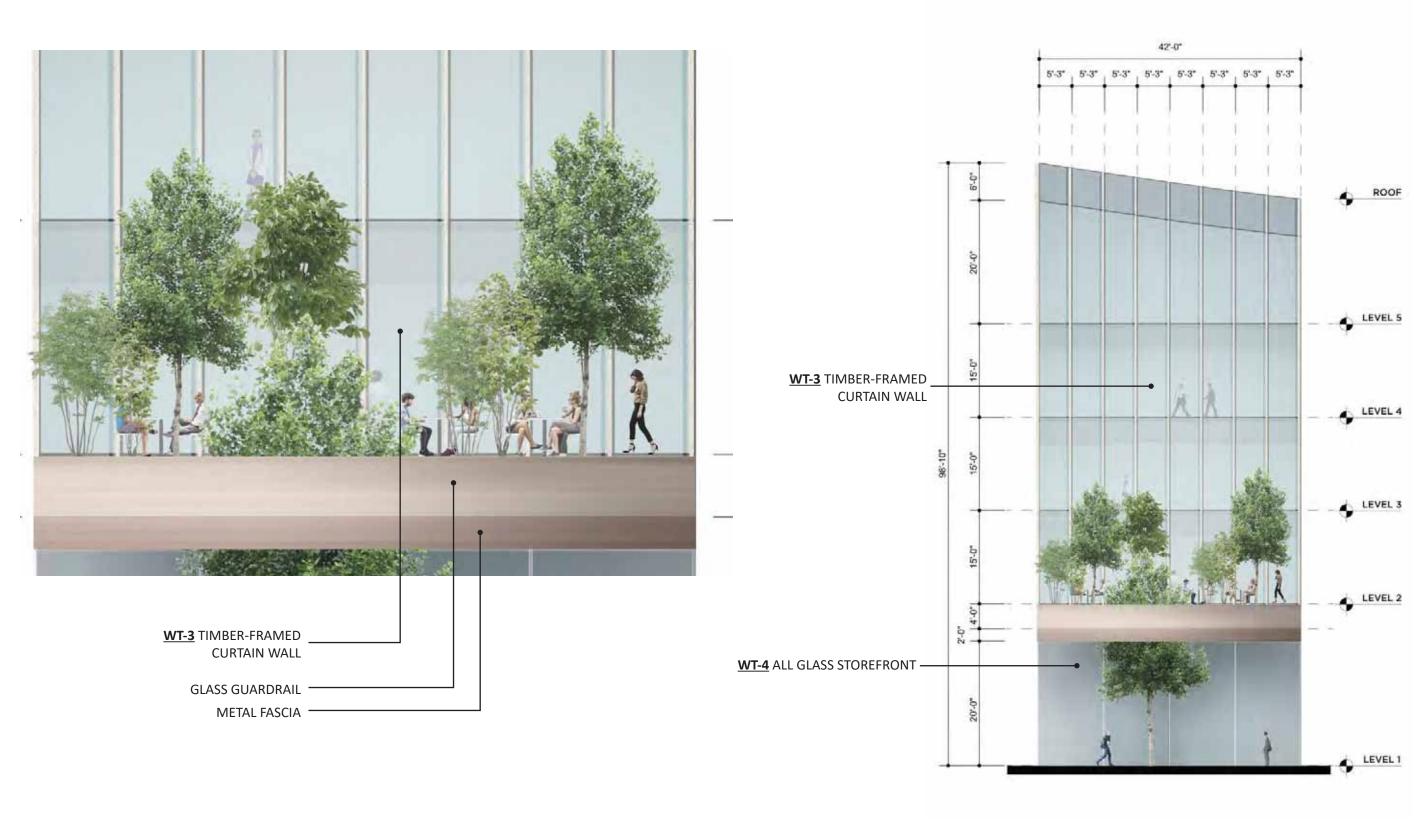
WT-4

WT-4

System	Color code							
	Name	GLASS PANEL RAINSCREEN WALL CLADDING FRP TAPERED SUN CONTROL PANEL	FIBER-CEMENT PANEL RAINSCREEN WALL CLADDING FRP TAPERED SUN CONTROL PANEL	ALUMINUM-FRAMED CURTAIN WALL	ALUMINUM-FRAMED CURTAIN WALL	TIMBER-FRAMED CURTAIN WALL	ALL-GLASS STOREFRONT (WT-4)	METAL PANEL RAINSCREEN WALL CLADDING
	Location	Level 2-5 North Façade	Level 2-5 South/West Façade	Level 2-5 North/South/West Façade	Level 2-5 South Façade @ Stairs	Level 2-5 Atrium Façade	Level 1 Feature Areas	Level 1 Opaque Walls
	Type number	WT-1A	WT-1B	WT-2	WT-2A	WT-3	WT-4	WT-5
	Spec			B2020.31	B2020.31	B2020.32	B2020.33	
	General description	glazed frame attached to thermally isolated sub- framing. Metal Framed rainscreen backup construction, 6" mineral wool insulation. FRP clad sun control panel with steel substructure tied	Fiber-Cement Panel with face fasteners attached to thermally isolated sub-framing. Metal Framed rainscreen backup construction, 6" mineral wool insulation. FRP clad sun control panel with steel substructure tied back to slab edge with thermally isolated structural connection	with triple glazing. Thermally broken aluminum framing.	aluminum curtain wall with full height low-iron glazing vision units structurally glazed onto		moment connection at base consisting of handrail bracket or custom plate construction. DGU with triple laminated structural outer lite.	Perforated/Patterned weathering steel cladding. Metal framed rainscreen backup construction, 6" mineral wool insulation with thermal isolation Clips. Cladding extends into freestanding daycare garden fence and will clad bi-fold loading dock door. Screen over punched windows and clad exterior doors.

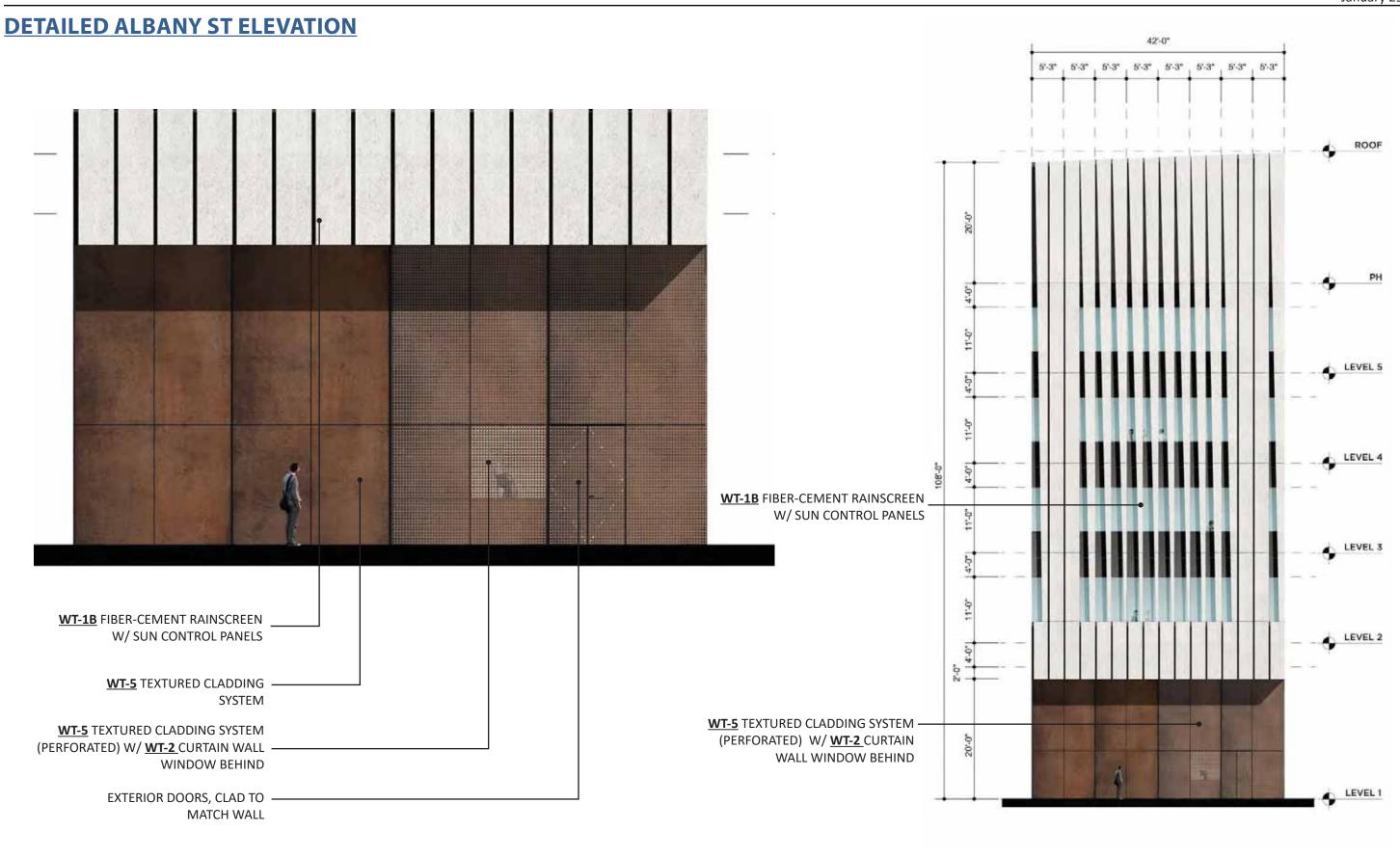


# **DETAILED ATRIUM ELEVATION**



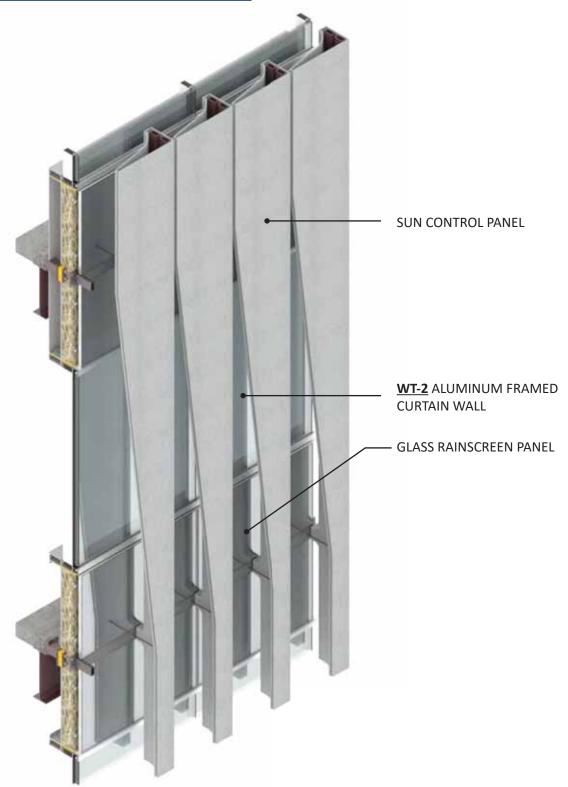
### **DETAILED PORTLAND ST ELEVATION**



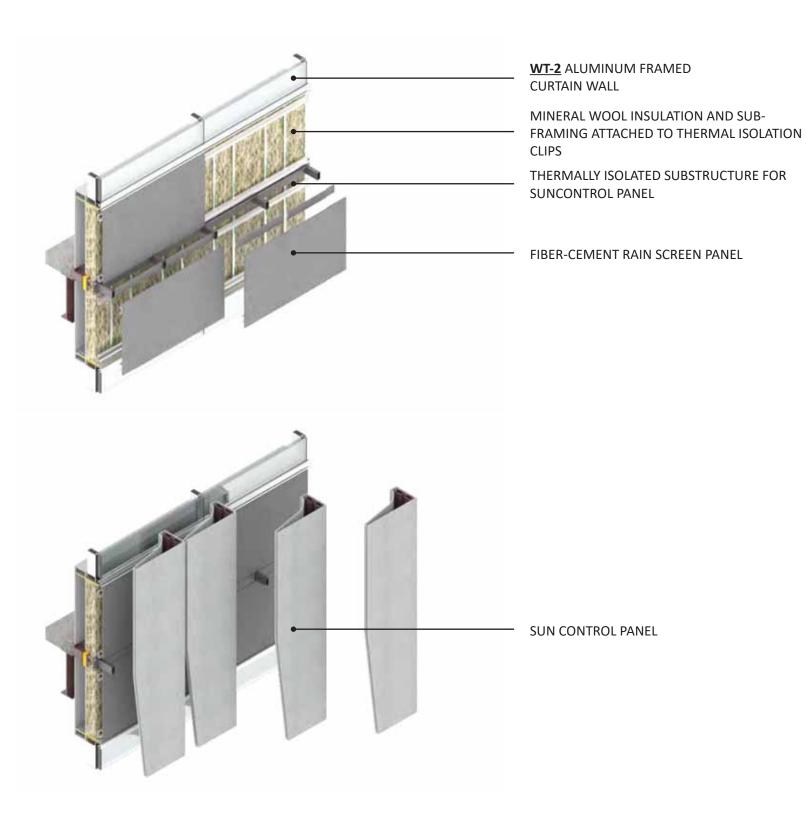


Article 19 Application for Special Permit January 29, 2021

### **PROPOSED WALL ASSEMBLY**







**WT-1B FIBER CEMENT RAINSCREEN W/ SUN CONTROL PANEL** 

Article 19 Application for Special Permit January 29, 2021

## **PROPOSED MATERIALS**















SUN CONTROL PANEL (E.G. FIBER REINFORCED POLYMER OR SIM.) FIBER-CEMENT PANEL

3 TIMBER CURTAIN WALL

TEXTURED CLADDING SYSTEM

ALL-GLASS STOREFRONT



PAYETTE