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COMPLEX
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Square 55 - Washington DC 20052

Architecture
Engineering
Planning
Interior Design

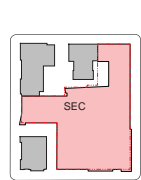
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Hickok Cole



KEY PLAN:



DATE:
MARCH 4, 2011

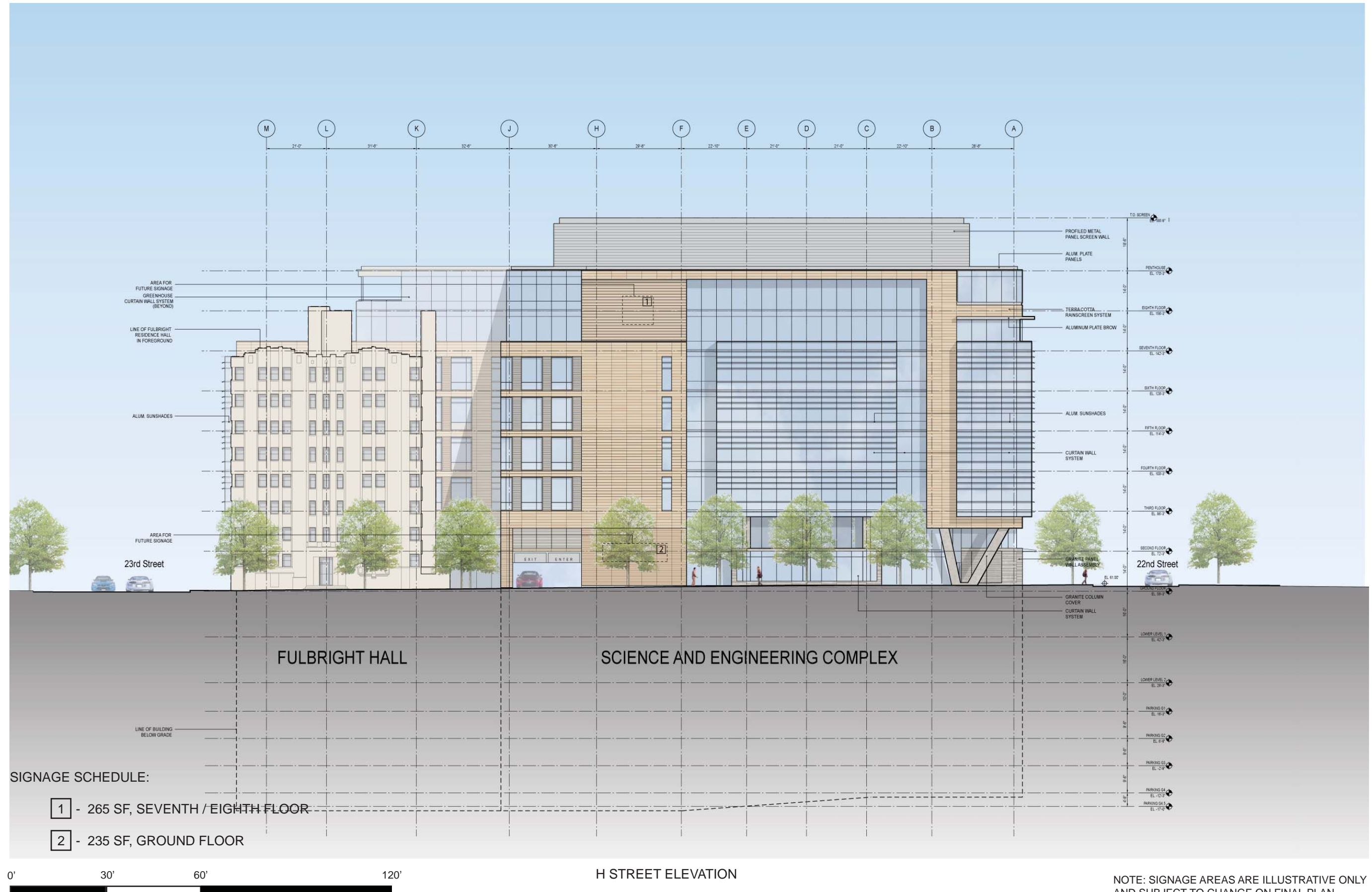
SECOND-STAGE
PUD APPLICATION

TITLE:

H STREET
ELEVATION

NUMBER:

A-40



NOTE: SIGNAGE AREAS ARE ILLUSTRATIVE ONLY
AND SUBJECT TO CHANGE ON FINAL PLAN



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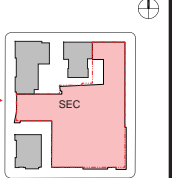
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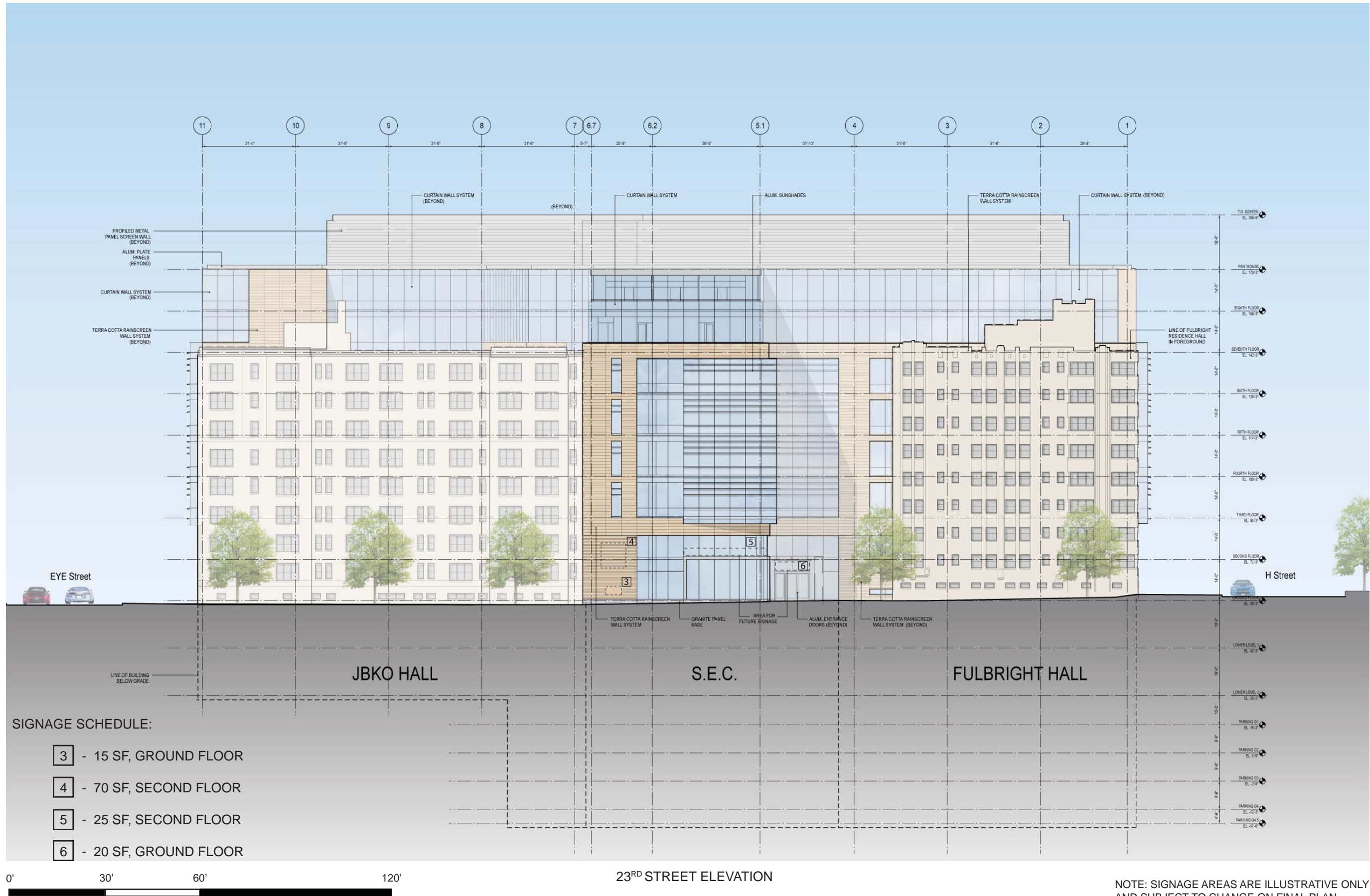
SECOND-STAGE
PUD APPLICATION

TITLE:

23RD STREET
ELEVATION

NUMBER:

A-41



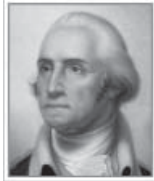
- SIGNAGE SCHEDULE:
- 3 - 15 SF, GROUND FLOOR
 - 4 - 70 SF, SECOND FLOOR
 - 5 - 25 SF, SECOND FLOOR
 - 6 - 20 SF, GROUND FLOOR



23RD STREET ELEVATION

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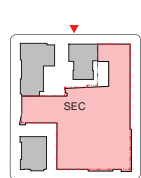
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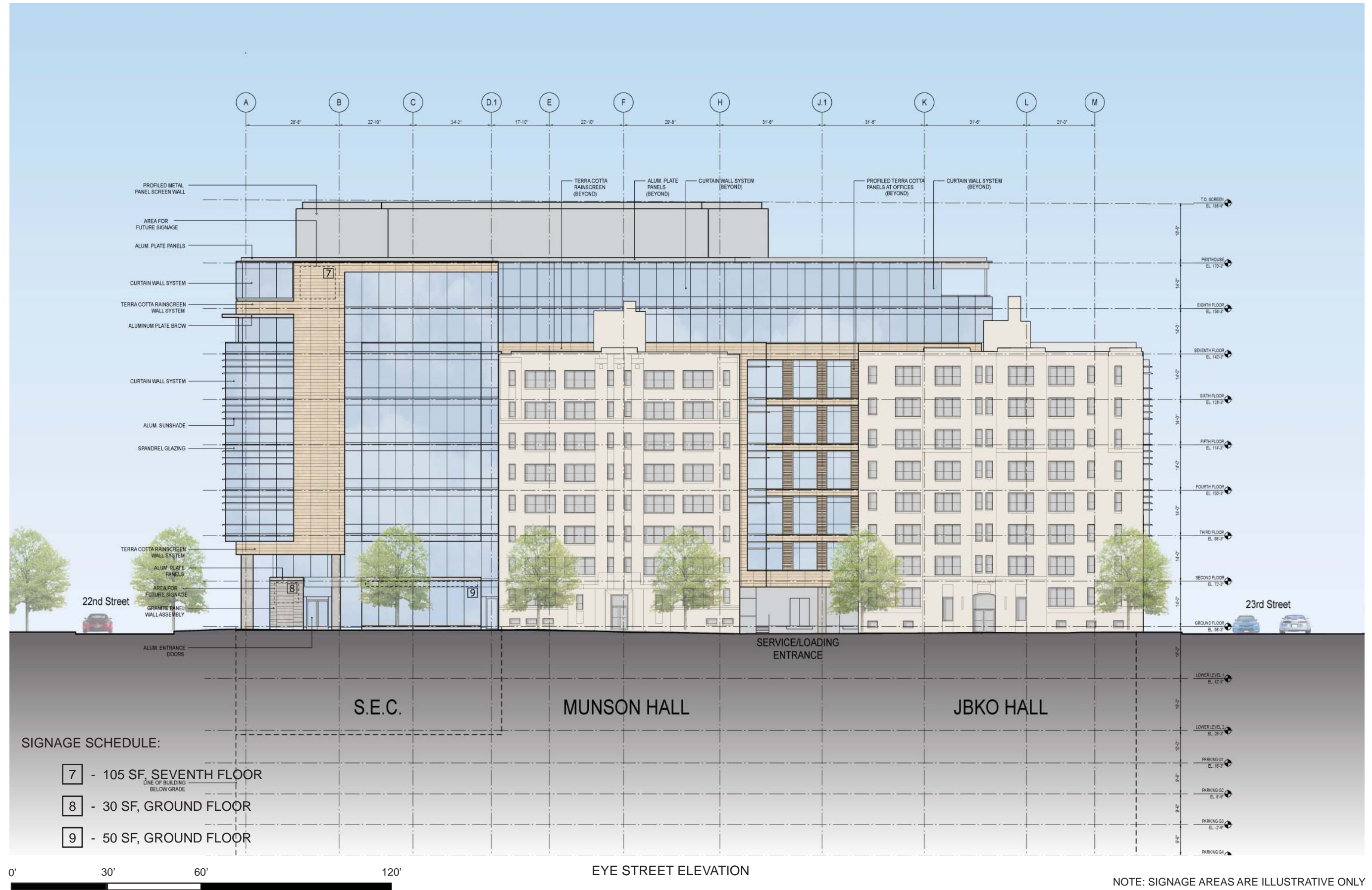
SECOND-STAGE
PUD APPLICATION

TITLE:

EYE STREET
ELEVATION

NUMBER:

A-42



NOTE: SIGNAGE AREAS ARE ILLUSTRATIVE ONLY
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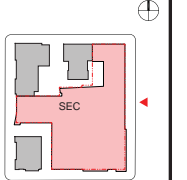
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KEY PLAN:

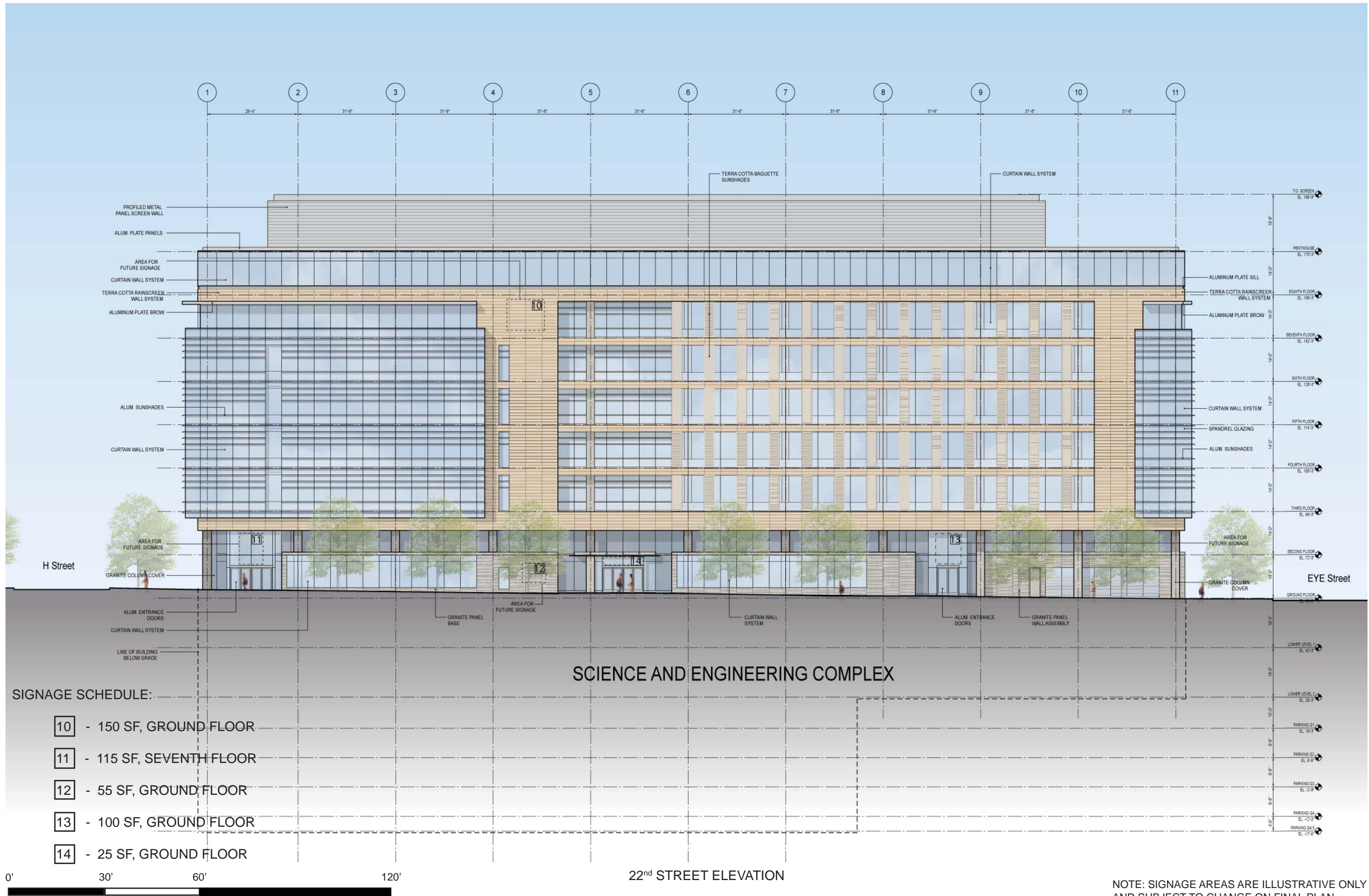


DATE:
MARCH 4, 2011

SECOND-STAGE
PUD APPLICATION

TITLE:
22nd STREET
ELEVATION

NUMBER:
A-43



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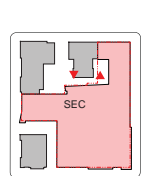
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KEY PLAN:



DATE:
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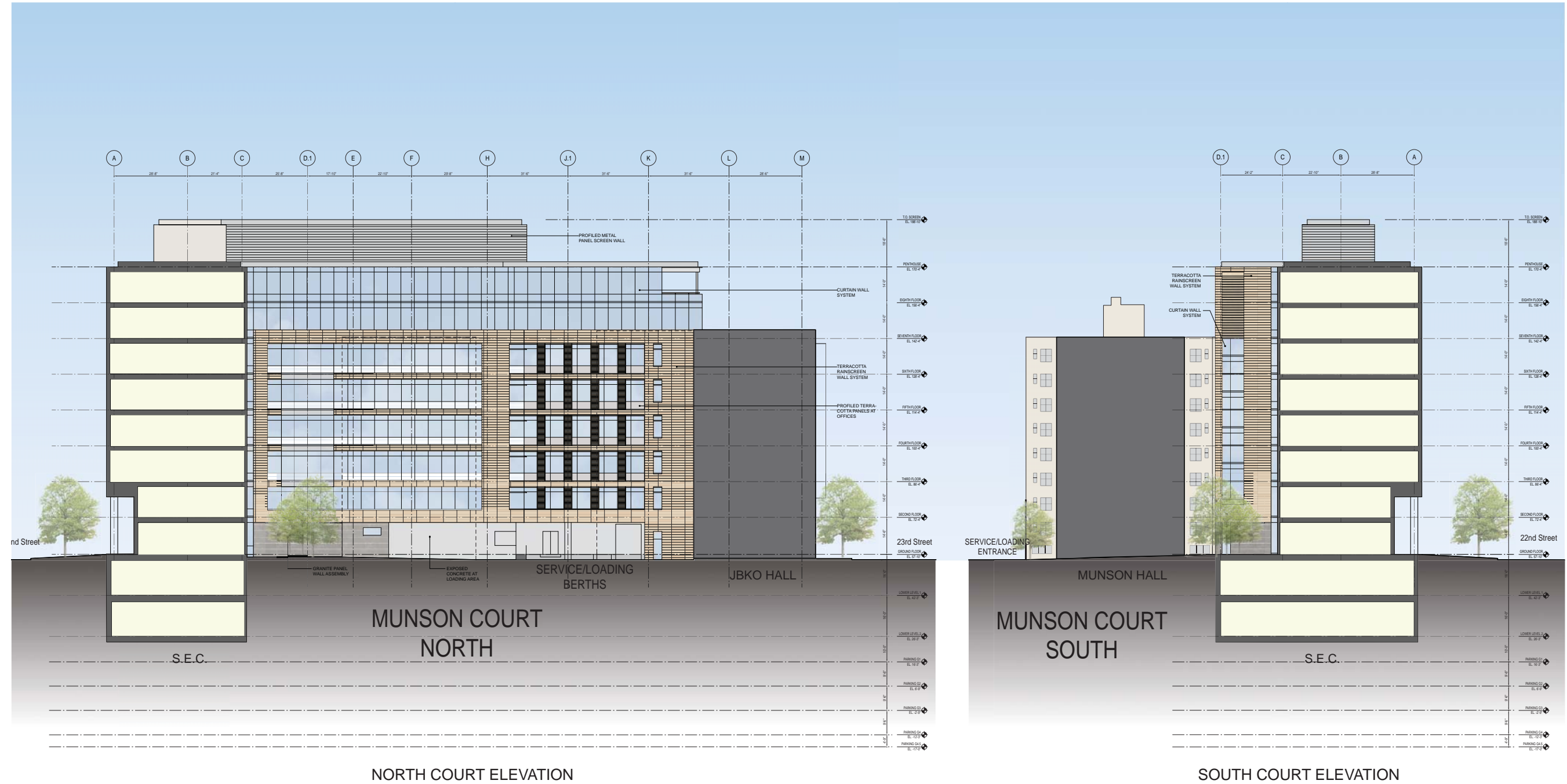
SECOND-STAGE
PUD APPLICATION

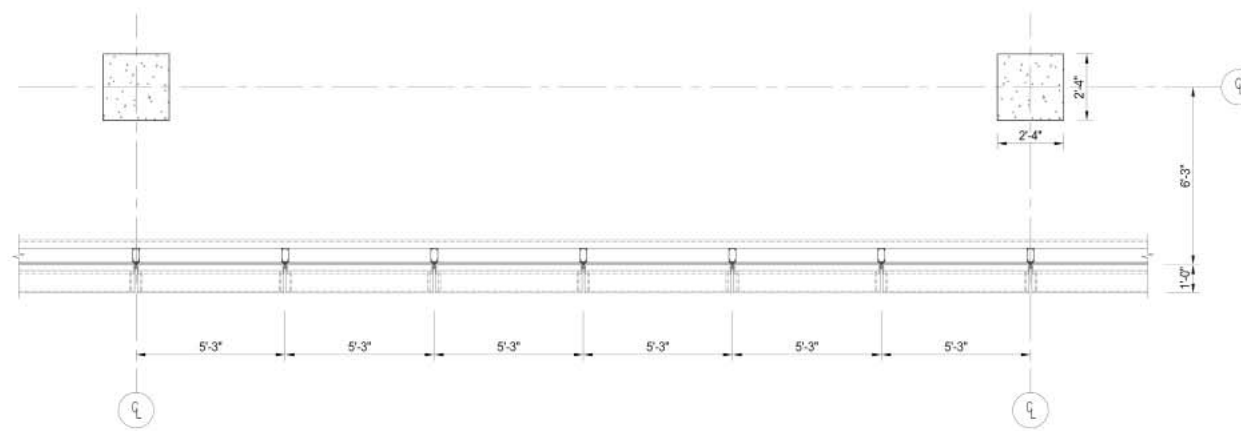
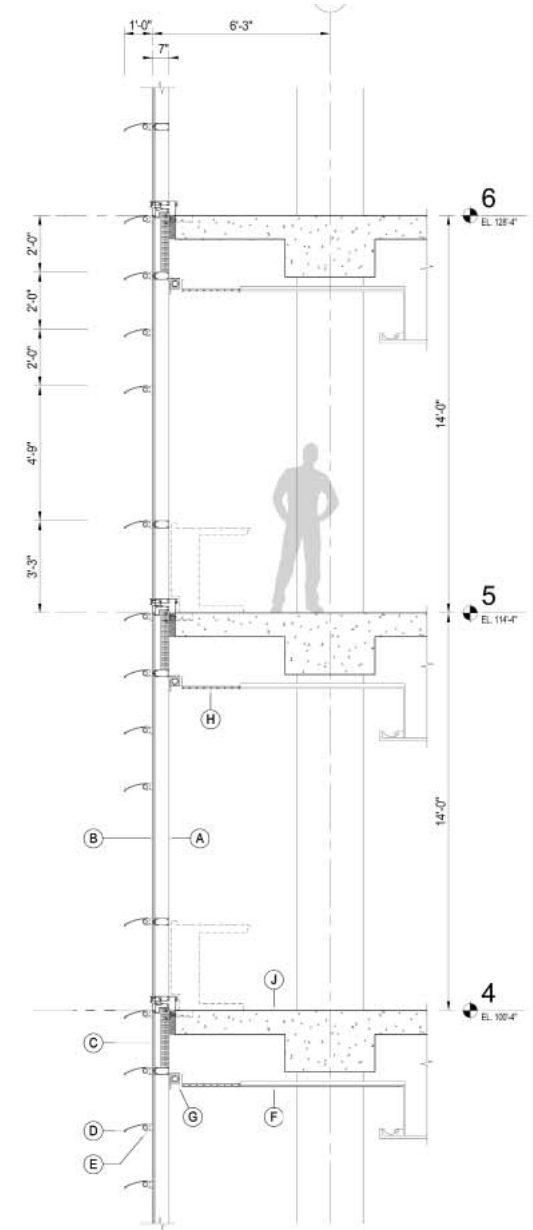
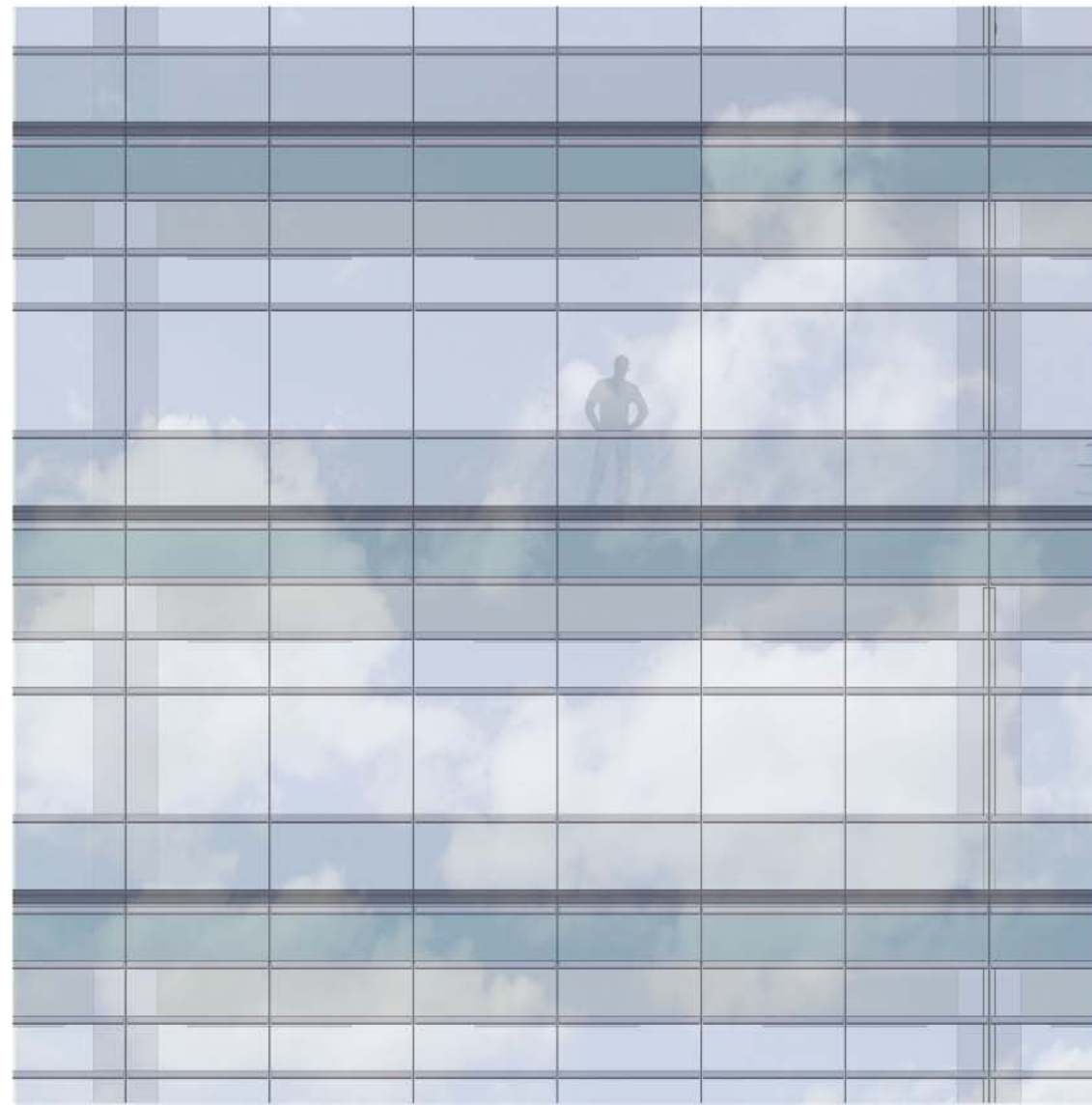
TITLE:

COURT
ELEVATIONS

NUMBER:

A-44





- (A) ALUMINUM CURTAIN WALL SYSTEM
- (B) LOW-E INSULATING GLASS UNITS
- (C) SPANDREL GLASS
- (D) ALUMINUM SUNSHADES
- (E) ALUMINUM SUNSHADE BRACKET
- (F) PAINTED GWB CEILING
- (G) ROLLER SHADE SYSTEM
- (H) RADIANT PANEL
- (J) STRUCTURAL CONCRETE

CURTAIN WALL WITH ALUMINUM SUNSHADES PLAN

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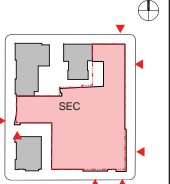
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KEY PLAN:



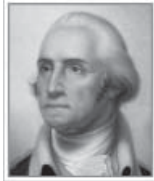
DATE:
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SECOND-STAGE
PUD APPLICATION

TITLE:
ELEVATION DETAILS
CURTAIN WALL
AND SUNSHADES

NUMBER:

A-45



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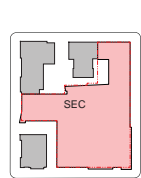
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DATE:
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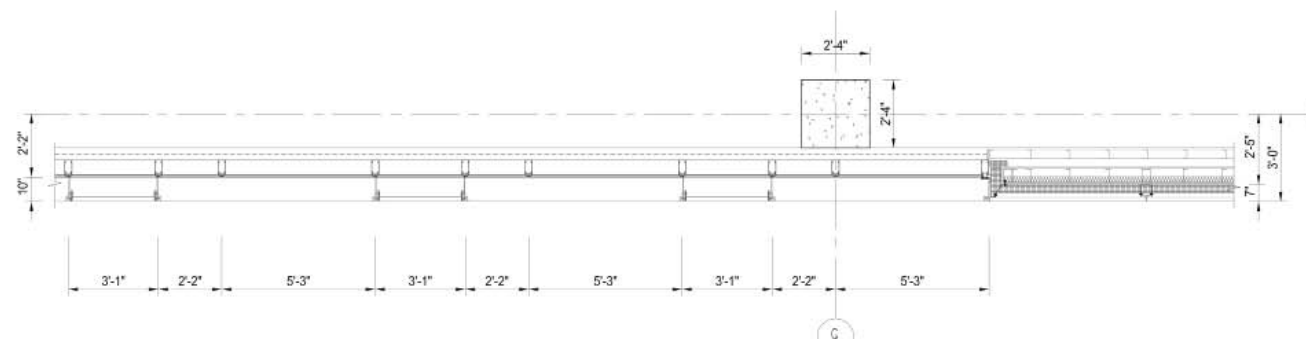
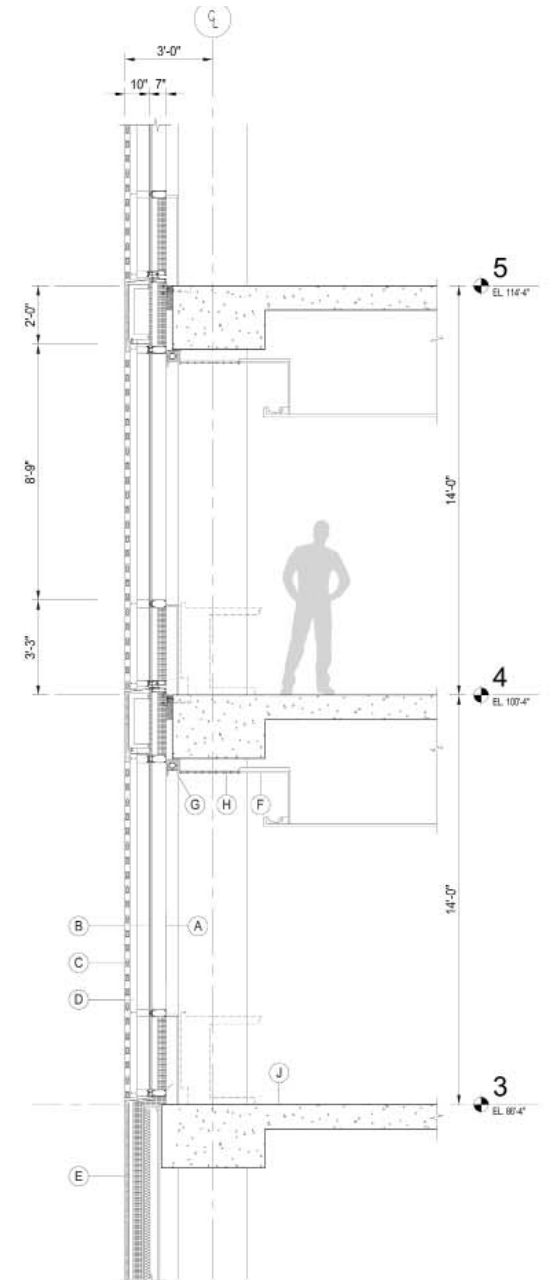
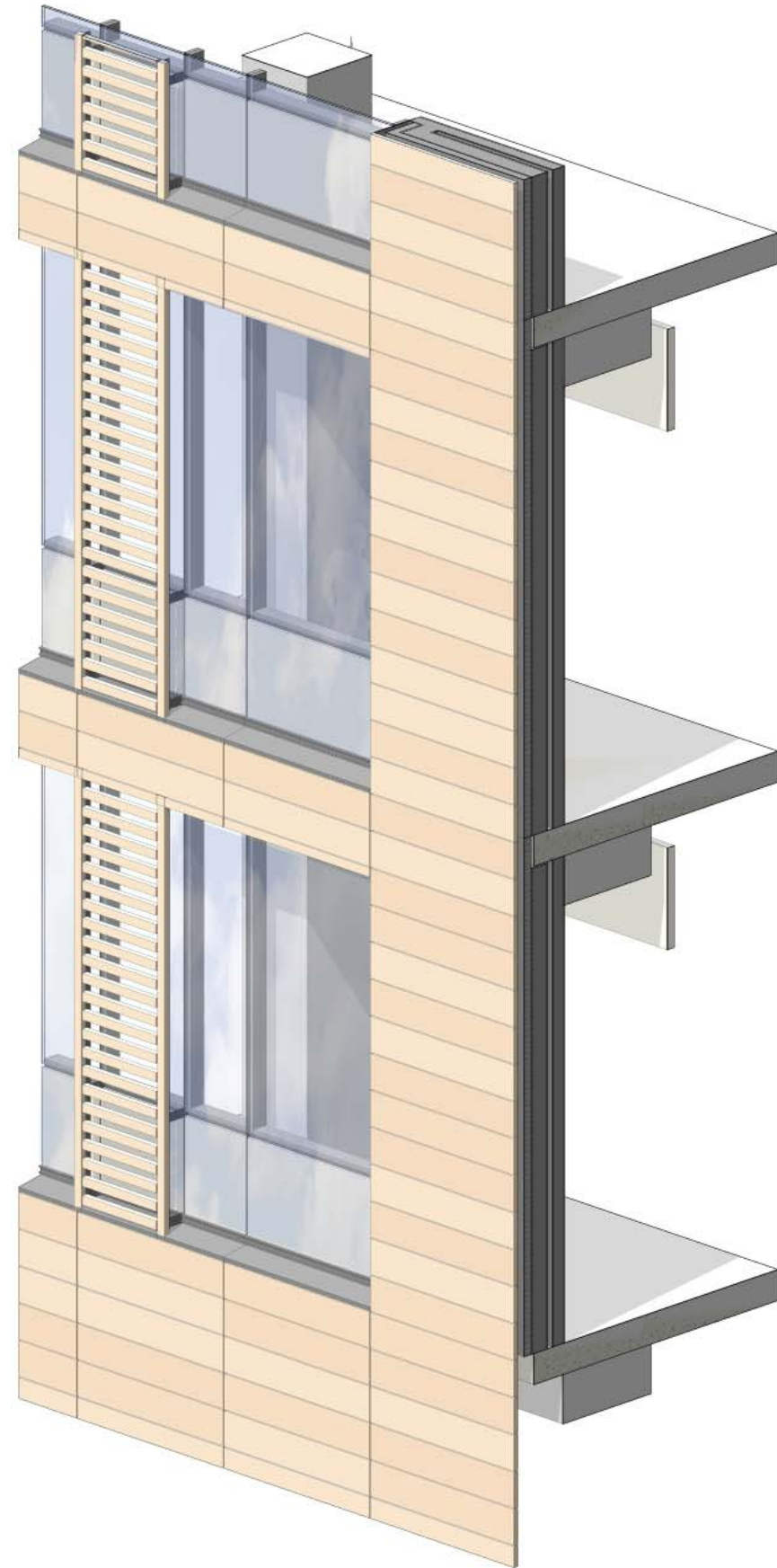
SECOND-STAGE
PUD APPLICATION

TITLE:

ELEVATION DETAILS
TERRA COTTA
SUNSHADES

NUMBER:

A-46



- (A) ALUMINUM CURTAIN WALL SYSTEM
- (B) LOW-E INSULATING GLASS UNITS
- (C) TERRA COTTA BAGUETTE SUNSHADES
- (D) ALUMINUM BAGUETTE SUPPORT FRAMING
- (E) TERRA COTTA RAINSCREEN WALL SYSTEM
- (F) PAINTED GWB CEILING
- (G) ROLLER SHADE SYSTEM
- (H) RADIANT PANEL
- (J) STRUCTURAL CONCRETE

TERRA COTTA RAINSCREEN WALL WITH TERRA COTTA SUNSHADES



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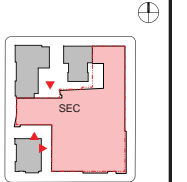
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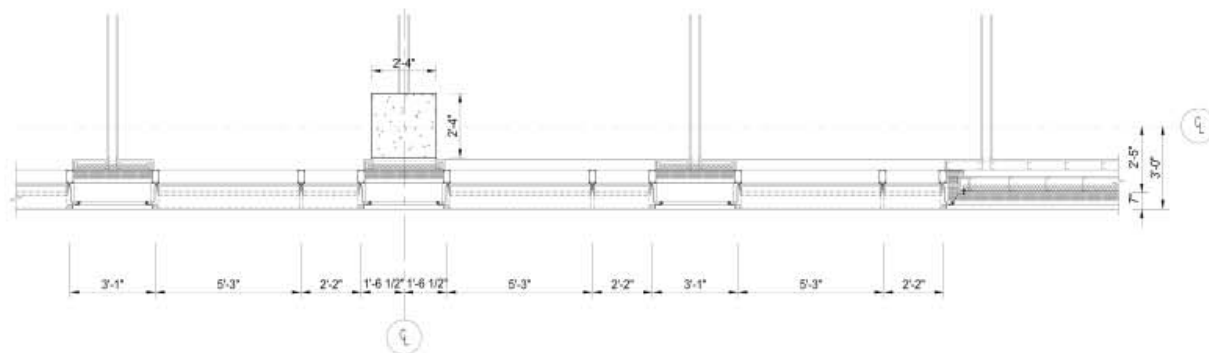
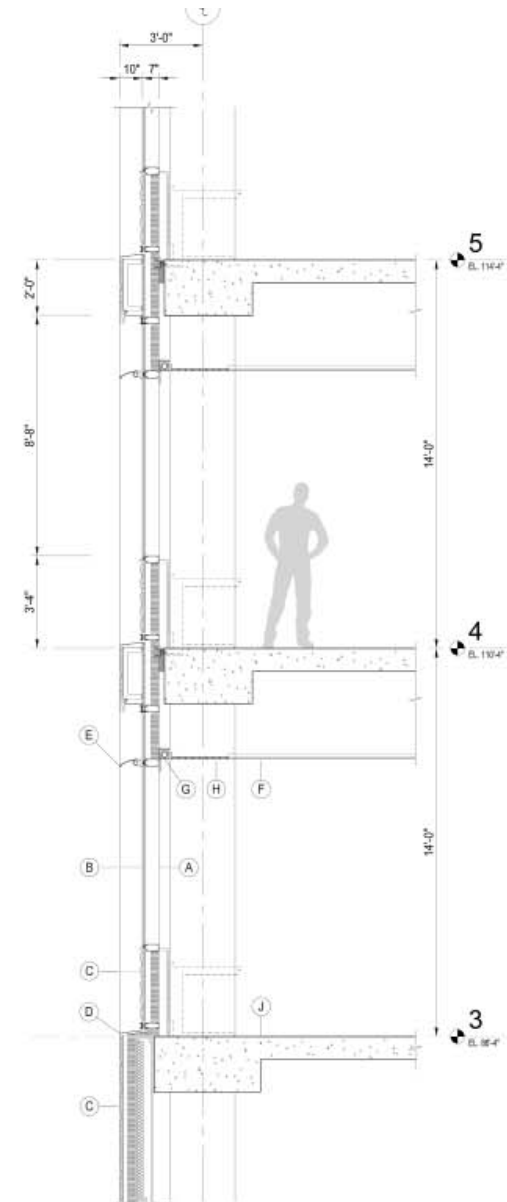
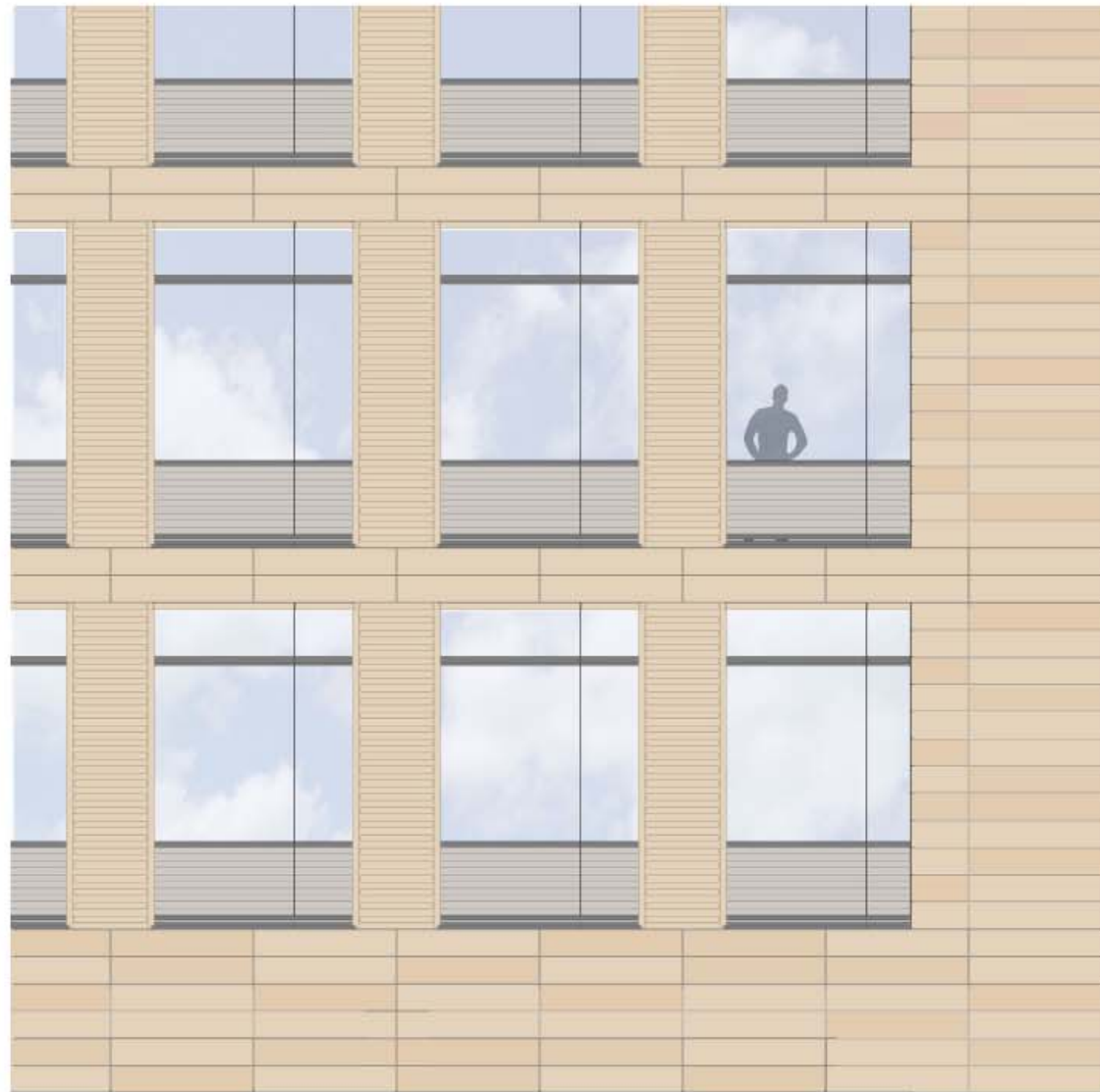


DATE:
MARCH 4, 2011

SECOND-STAGE
PUD APPLICATION

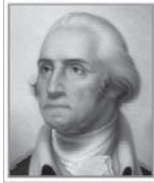
TITLE:
ELEVATION DETAILS
TERRA COTTA
PANELS

NUMBER:
A-47



- A ALUMINUM CURTAIN WALL SYSTEM
- B LOW-E INSULATING GLASS UNITS
- C TERRA COTTA RAINSCREEN WALL SYSTEM
- D ALUMINUM SILL
- E ALUMINUM SUNSHADE
- F ACOUSTIC CEILING PANELS
- G ROLLER SHADE SYSTEM
- H RADIANT PANEL
- J STRUCTURAL CONCRETE

TERRA COTTA RAINSCREEN WALL WITH RECESSED TERRA COTTA PANELS



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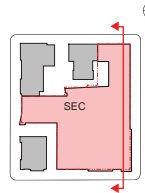
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KEY PLAN:



DATE: MARCH 4, 2011

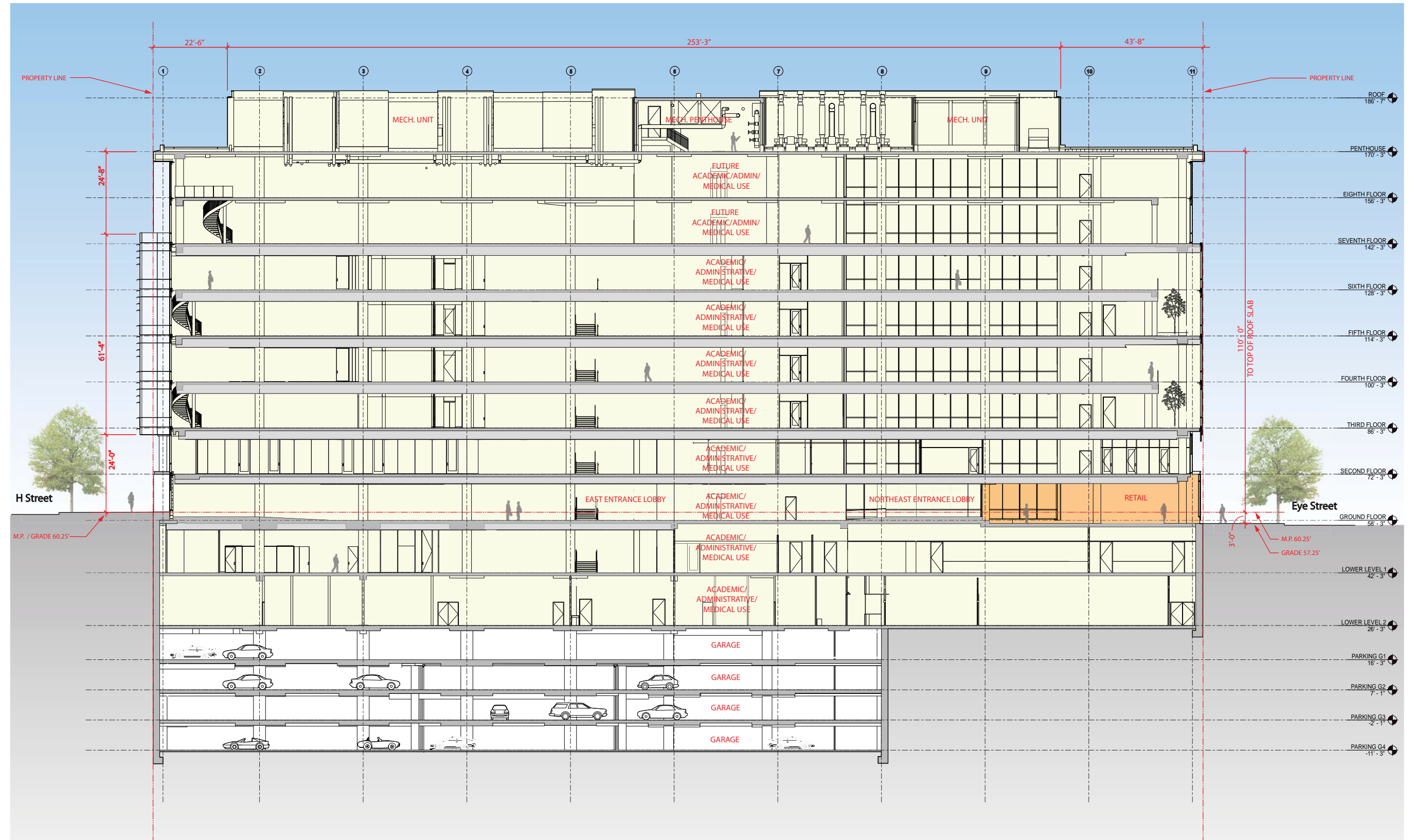
SECOND-STAGE PUD APPLICATION

TITLE:

NORTH/SOUTH BUILDING SECTION

NUMBER:

A-51



NORTH/SOUTH BUILDING SECTION





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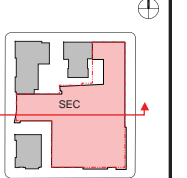
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KEY PLAN:

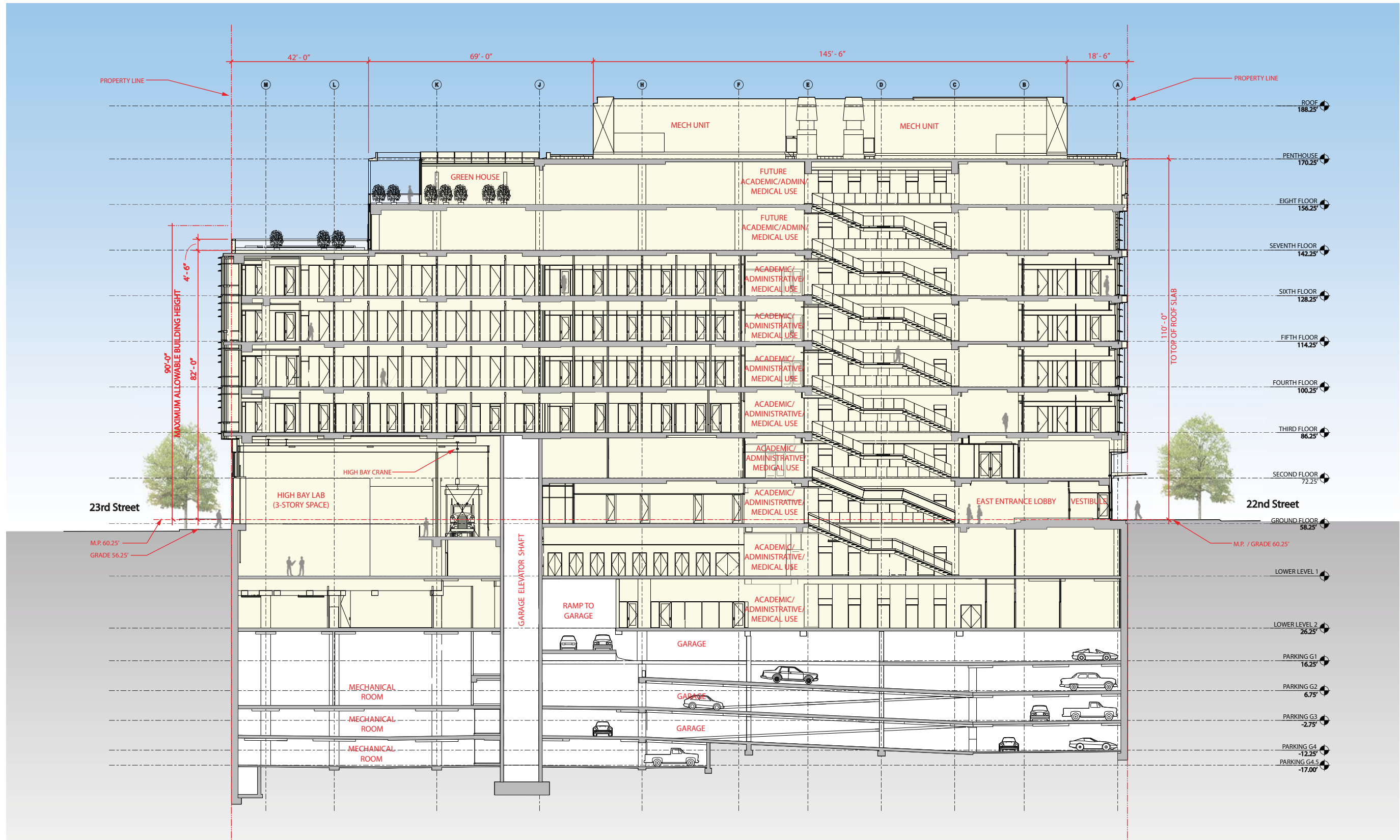


DATE:
MARCH 4, 2011

SECOND-STAGE
PUD APPLICATION

TITLE:
EAST/WEST
BUILDING
SECTION

NUMBER:
A-52



EAST/WEST BUILDING SECTION

0' 30' 60' 120'



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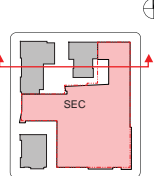
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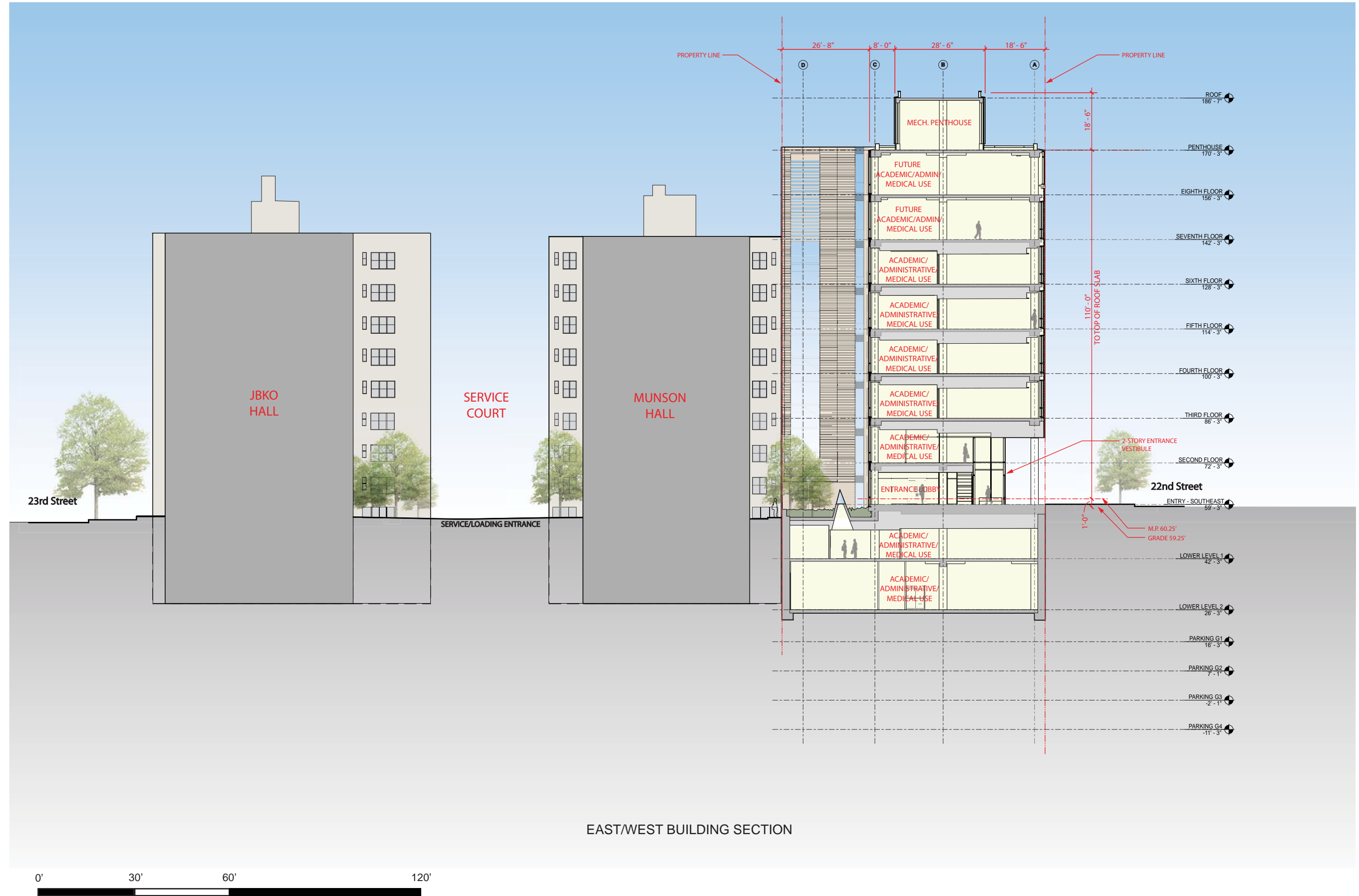
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MARCH 4, 2011

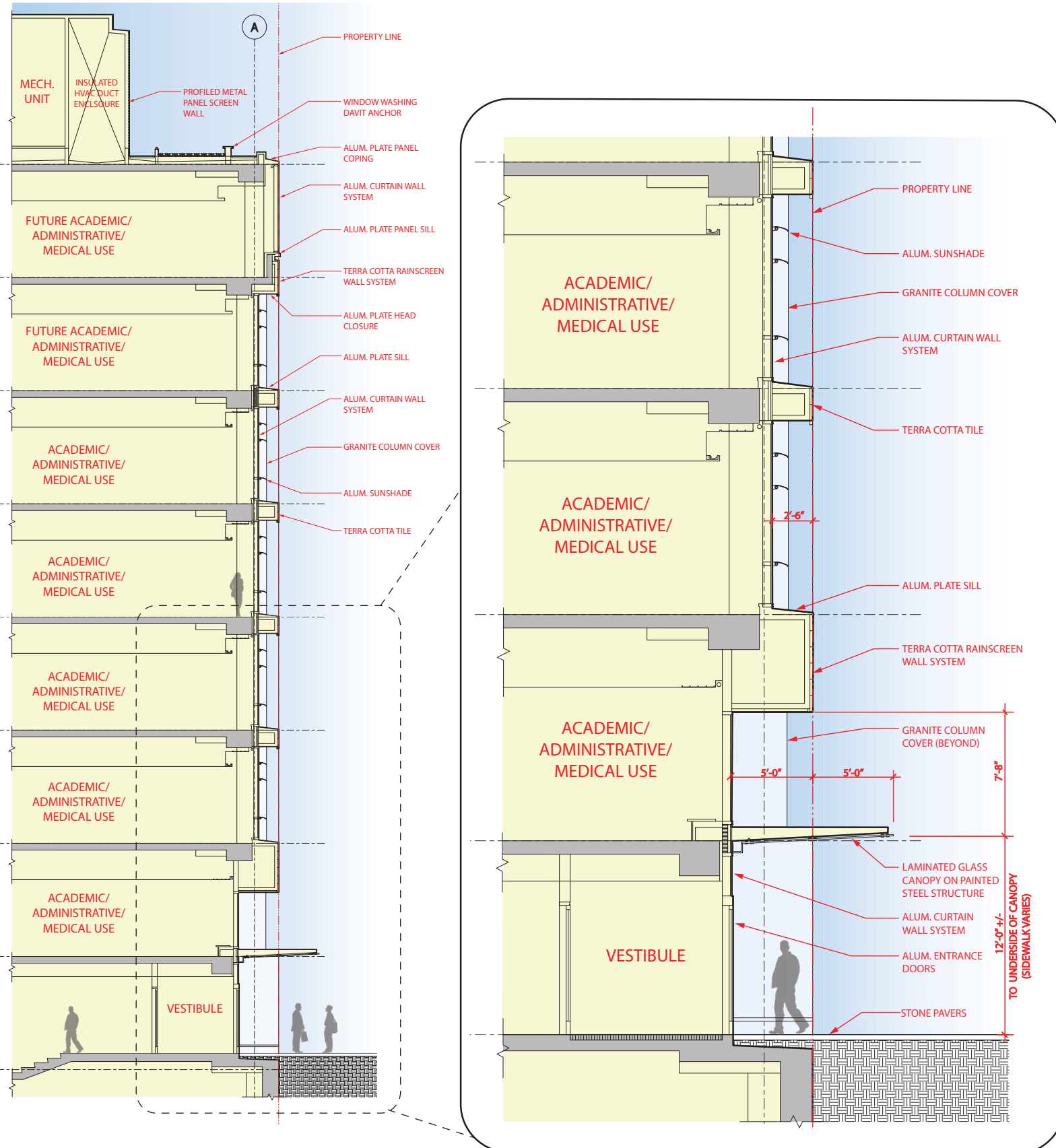
SECOND-STAGE
PUD APPLICATION

TITLE:
BLOCK SECTION
THROUGH
NEIGHBORING
BUILDINGS

NUMBER:

A-53





BUILDING SECTION @ 22ND STREET
SCALE: 1/16" = 1'-0"

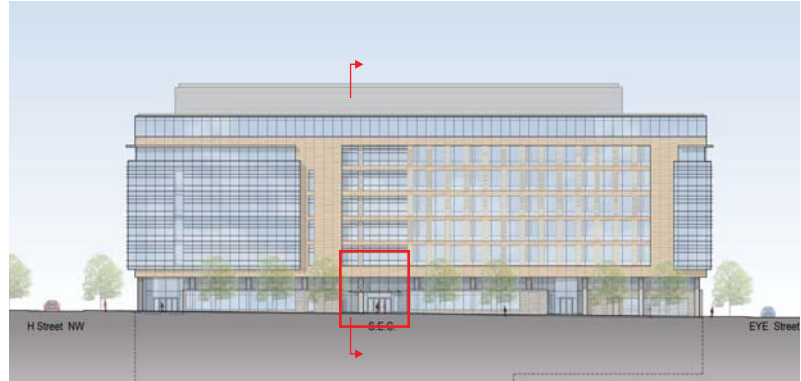
ENLARGED SECTION
SCALE: 1/8" = 1'-0"



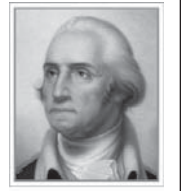
MODEL PHOTO - EAST ENTRANCE



PERSPECTIVE VIEW EAST ENTRANCE



22nd STREET ELEVATION



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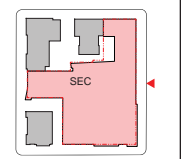
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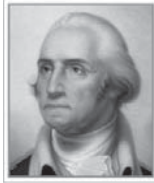


DATE:
MARCH 4, 2011

SECOND-STAGE
PUD APPLICATION

TITLE:
PARTIAL
SECTION
AT EAST
ENTRANCE

NUMBER:
A-54



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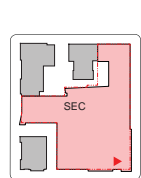
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KEY PLAN:



DATE:
MARCH 4, 2011

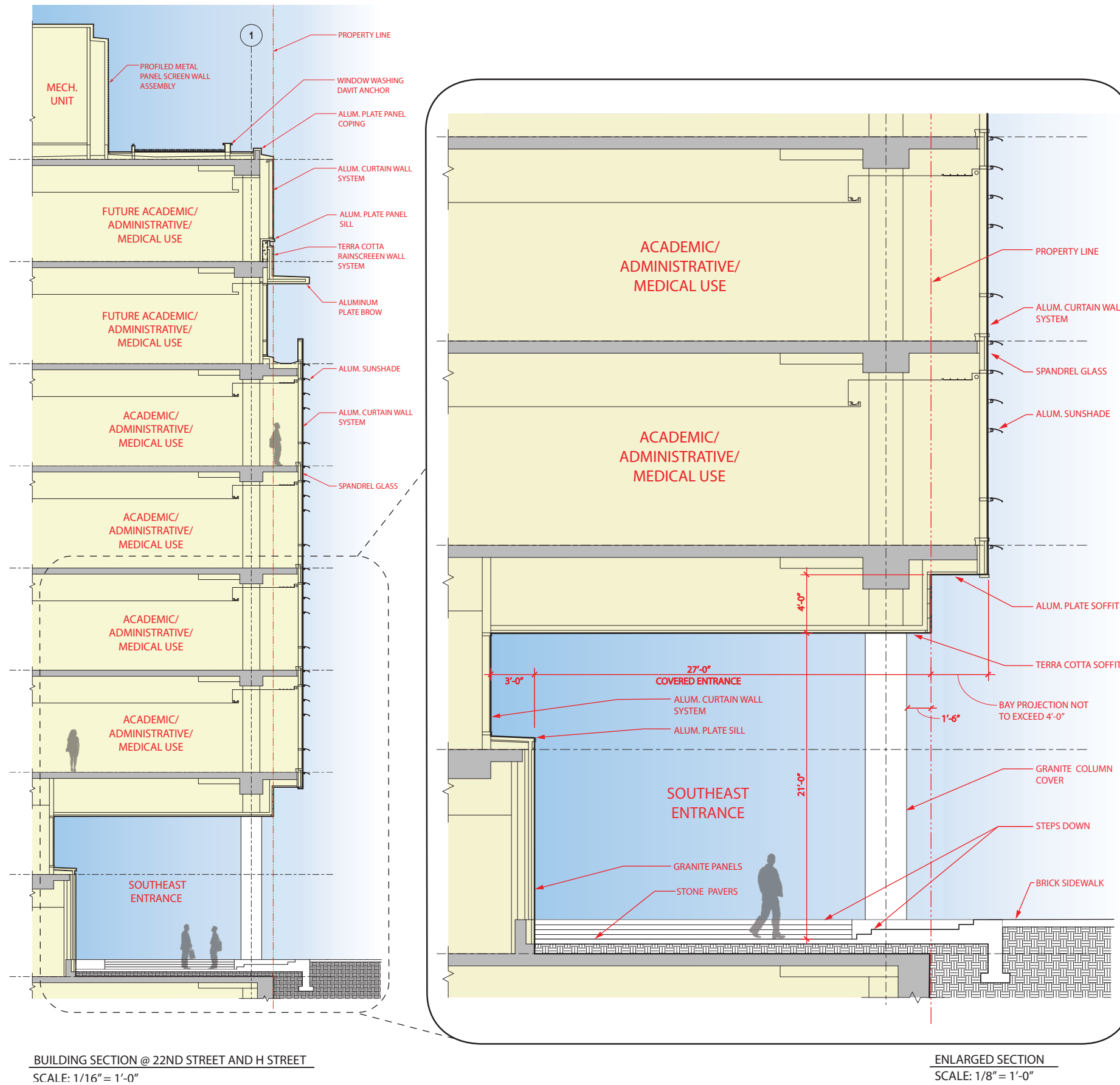
SECOND-STAGE
PUD APPLICATION

TITLE:

PARTIAL
SECTION AT
SOUTHEAST
ENTRANCE

NUMBER:

A-55



BUILDING SECTION @ 22ND STREET AND H STREET
SCALE: 1/16" = 1'-0"

ENLARGED SECTION
SCALE: 1/8" = 1'-0"



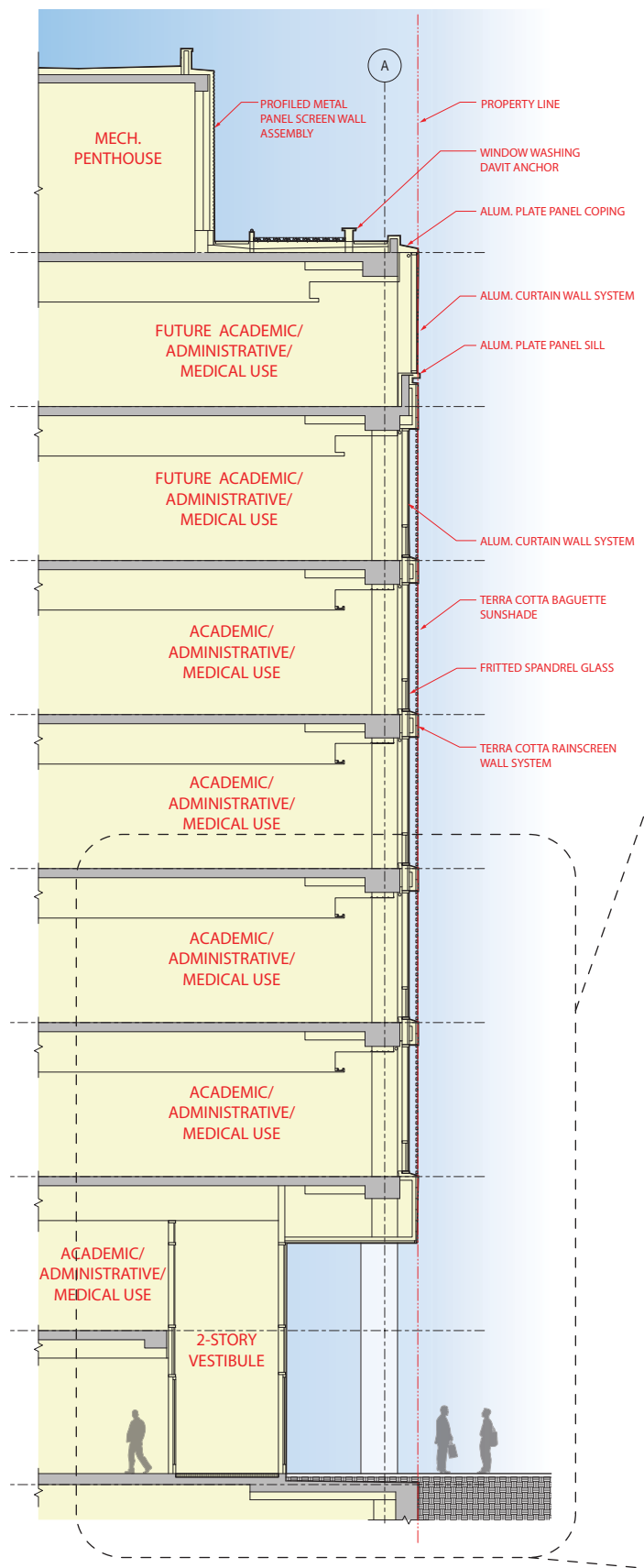
MODEL PHOTO -SOUTHEAST ENTRANCE



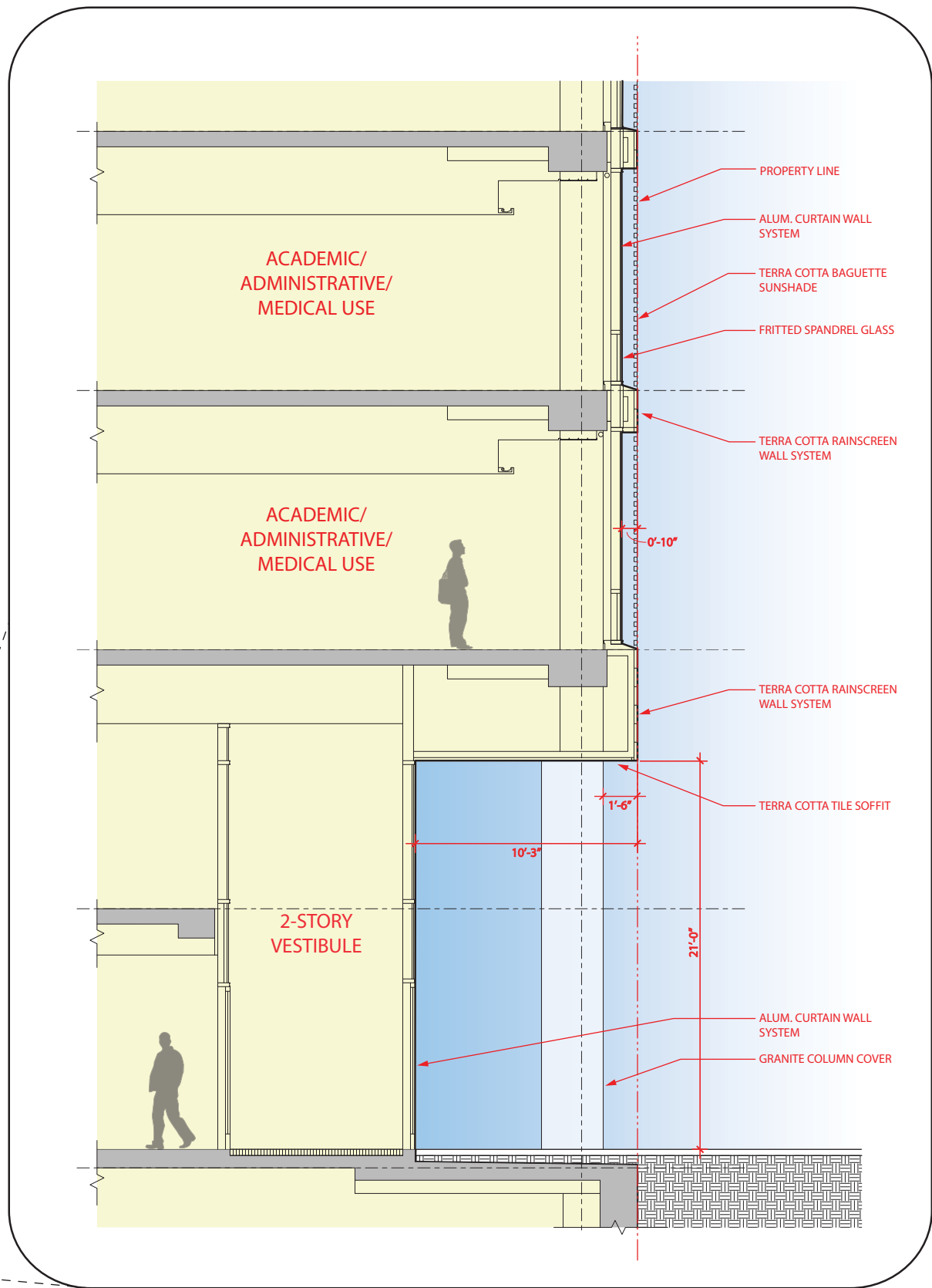
PERSPECTIVE VIEW SOUTHEAST ENTRANCE



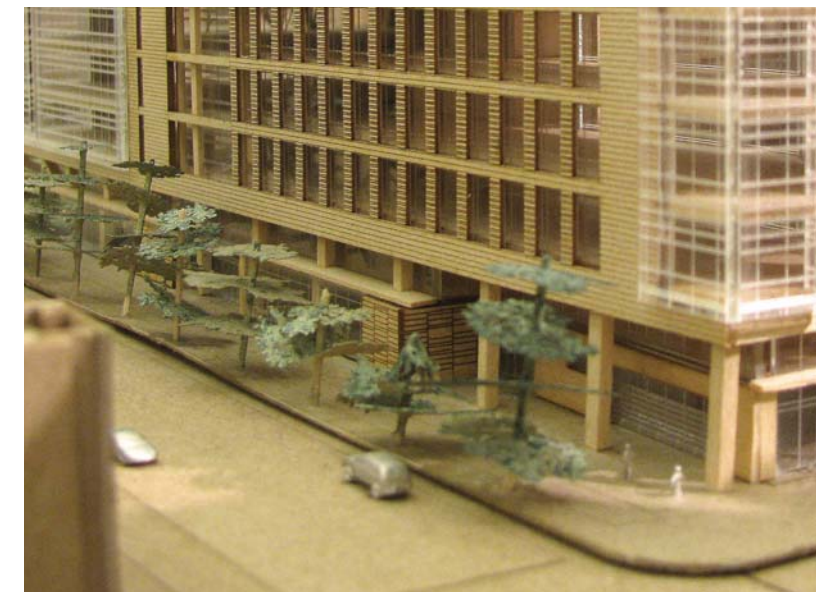
22nd STREET ELEVATION



BUILDING SECTION @ 22ND AND I STREET
SCALE: 1/16" = 1'-0"



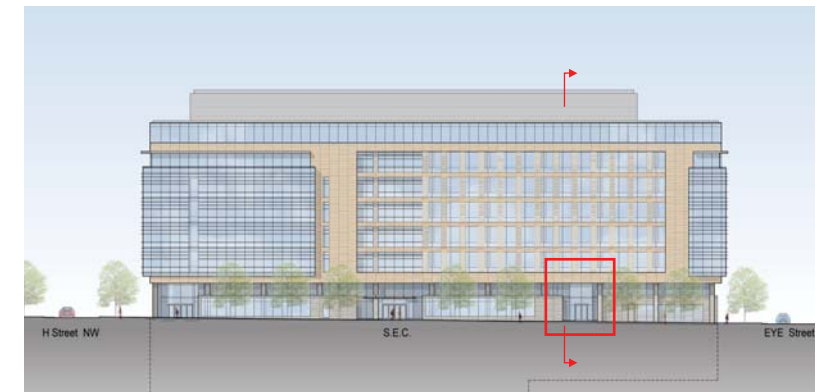
ENLARGED SECTION
SCALE: 1/8" = 1'-0"



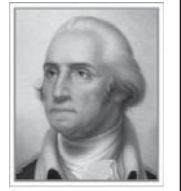
MODEL PHOTO - NORTHEAST ENTRANCE



PERSPECTIVE VIEW NORTHEAST ENTRANCE



22nd STREET ELEVATION



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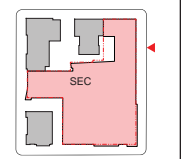
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KEY PLAN:
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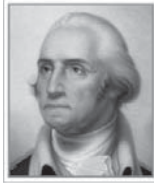


DATE:
MARCH 4, 2011

SECOND-STAGE
PUD APPLICATION

TITLE:
PARTIAL
SECTION AT
NORTHEAST
ENTRANCE

NUMBER:
A-56



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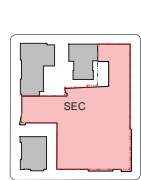
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DATE:
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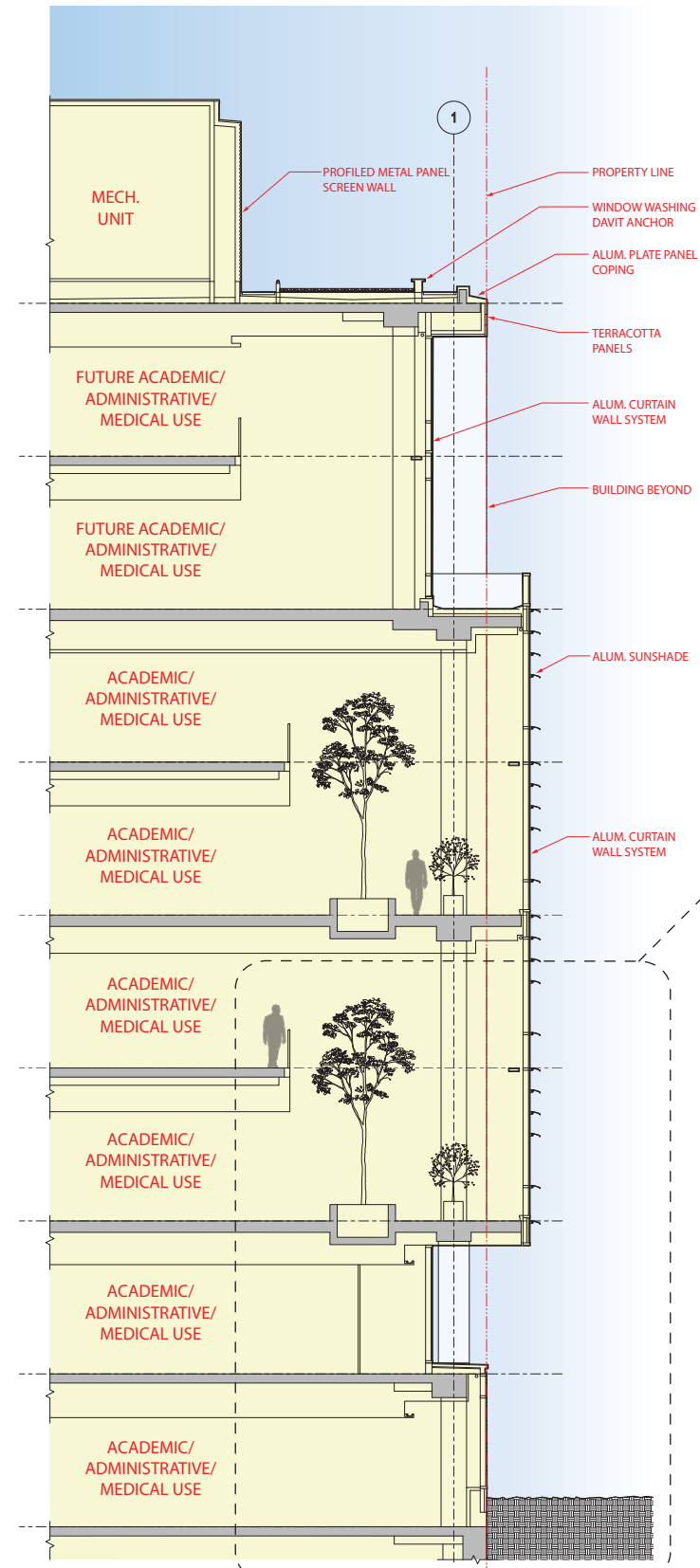
SECOND-STAGE
PUD APPLICATION

TITLE:

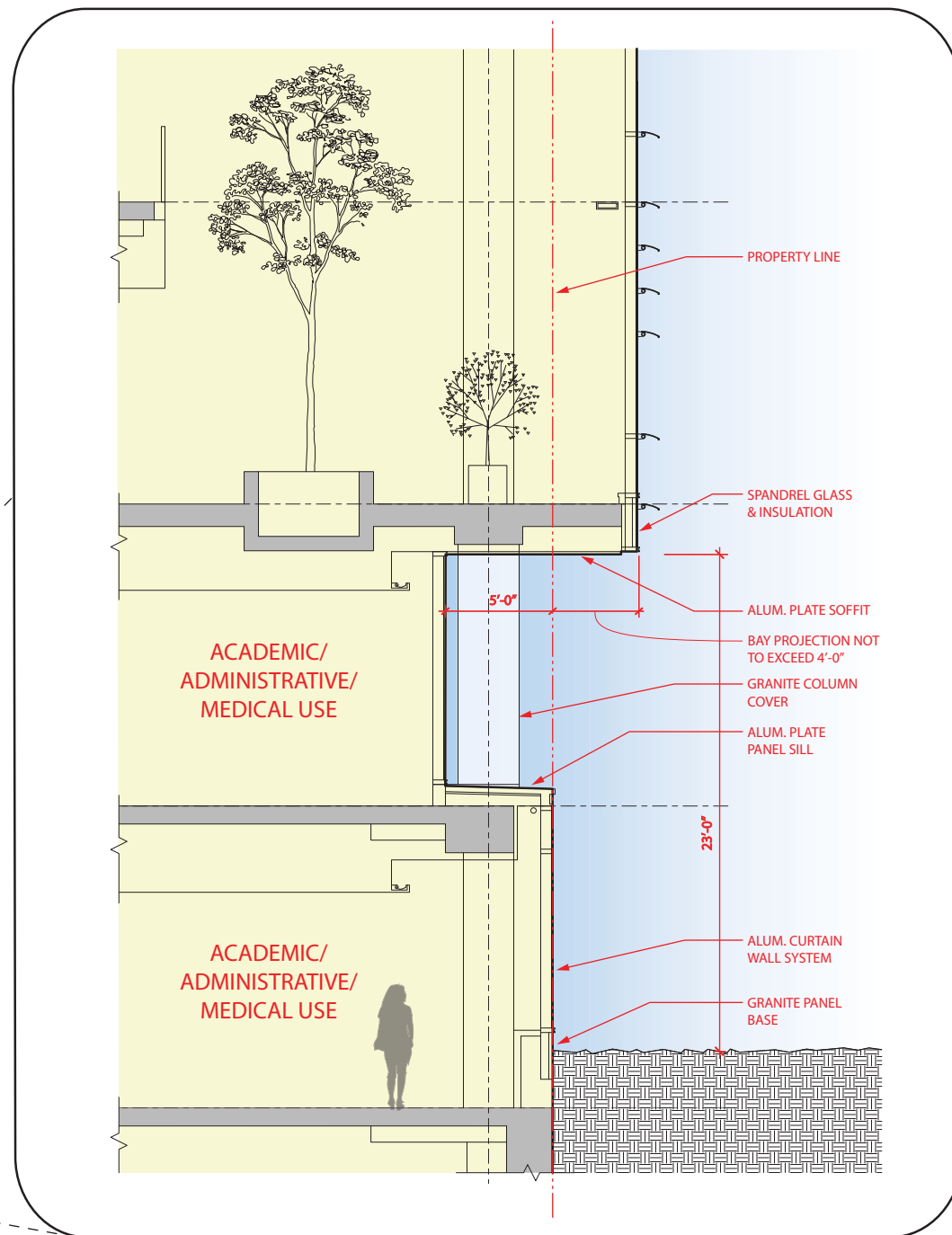
PARTIAL
SECTION AT
H STREET

NUMBER:

A-57



BUILDING SECTION @ H STREET
SCALE: 1/16" = 1'-0"



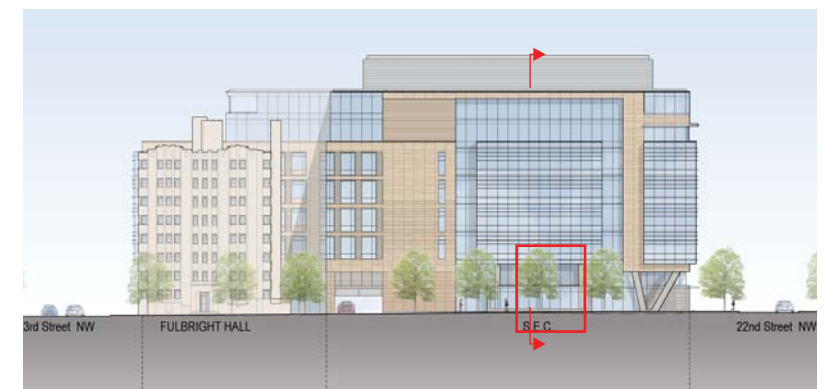
ENLARGED SECTION
SCALE: 1/8" = 1'-0"



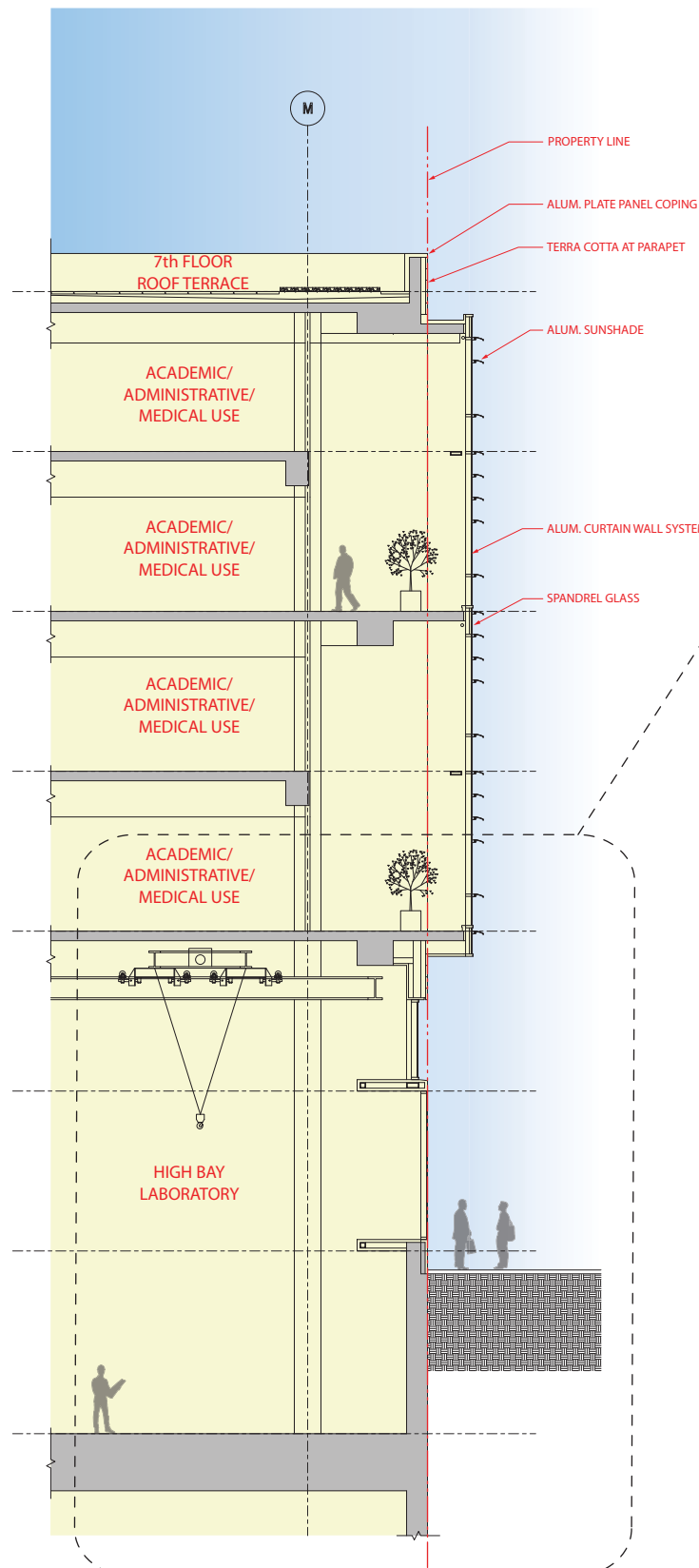
MODEL PHOTO OF SOUTHEAST ELEVATION



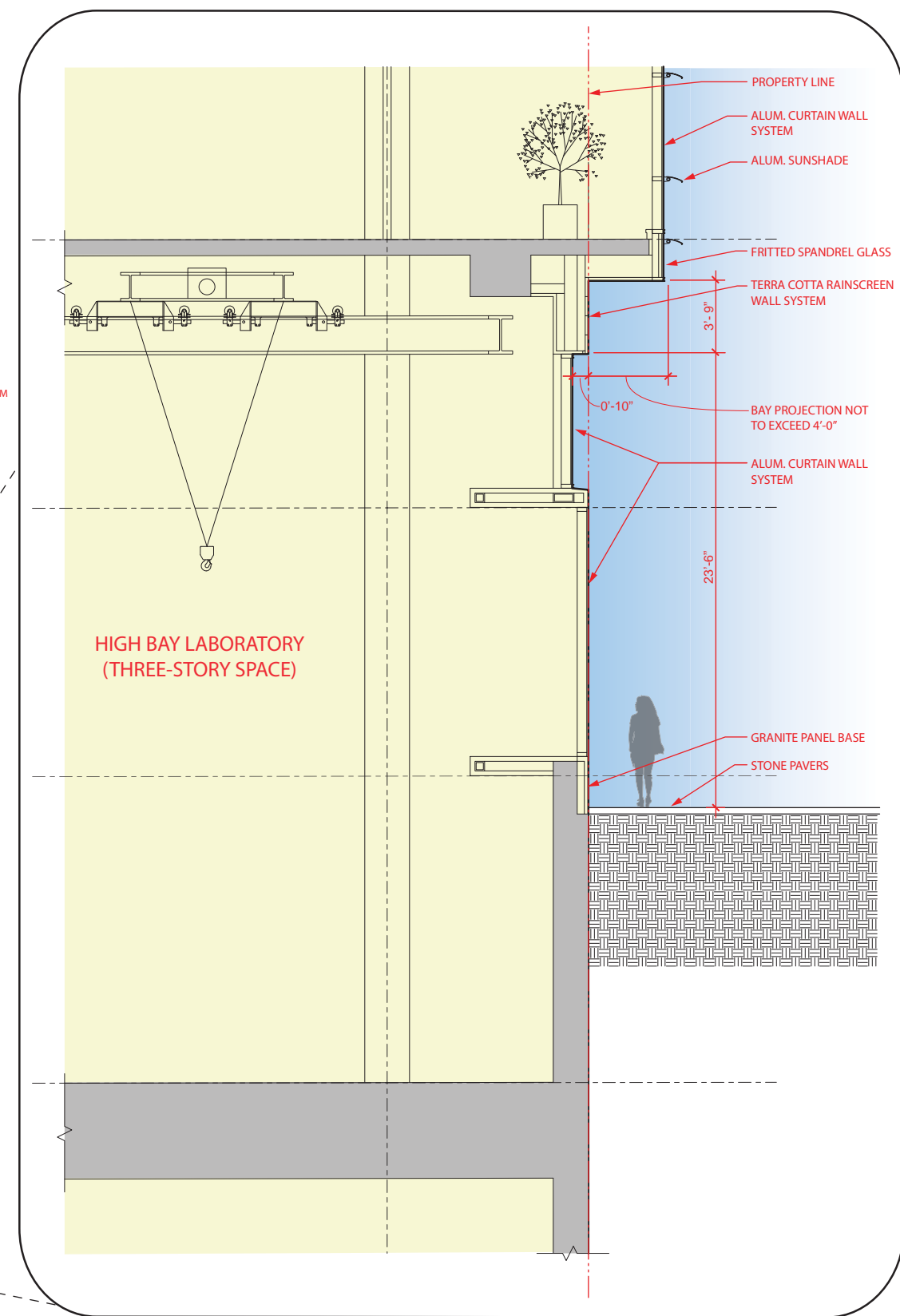
PERSPECTIVE VIEW OF SOUTH ELEVATION



H STREET ELEVATION



BUILDING SECTION @ 23RD STREET
SCALE: 1/16" = 1'-0"



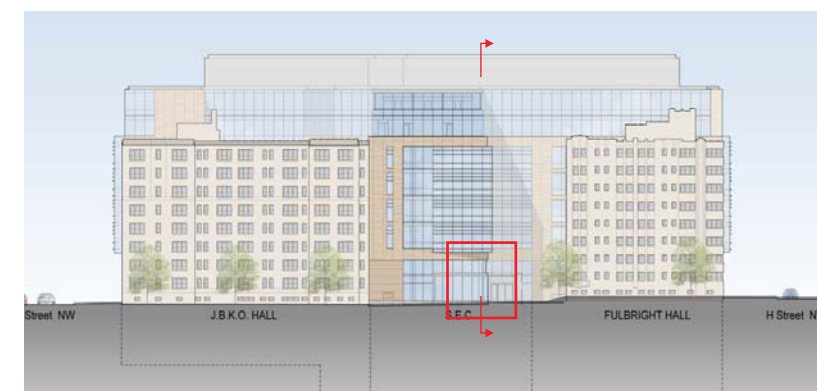
ENLARGED SECTION
SCALE: 1/8" = 1'-0"



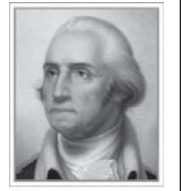
MODEL PHOTO - 23rd STREET ENTRANCE



PERSPECTIVE VIEW 23rd STREET ENTRANCE



23rd STREET ELEVATION



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WASHINGTON, D.C.

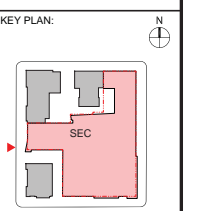
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Square 55 - Washington DC 20052

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Interior Design

Ballinger

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Suite 1400
Philadelphia, PA 19107
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ballinger@ae.com

Hickok Cole



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SECOND-STAGE PUD APPLICATION

TITLE:
PARTIAL SECTION AT HIGH BAY

NUMBER:
A-58



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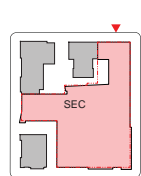
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KEY PLAN:



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MARCH 4, 2011

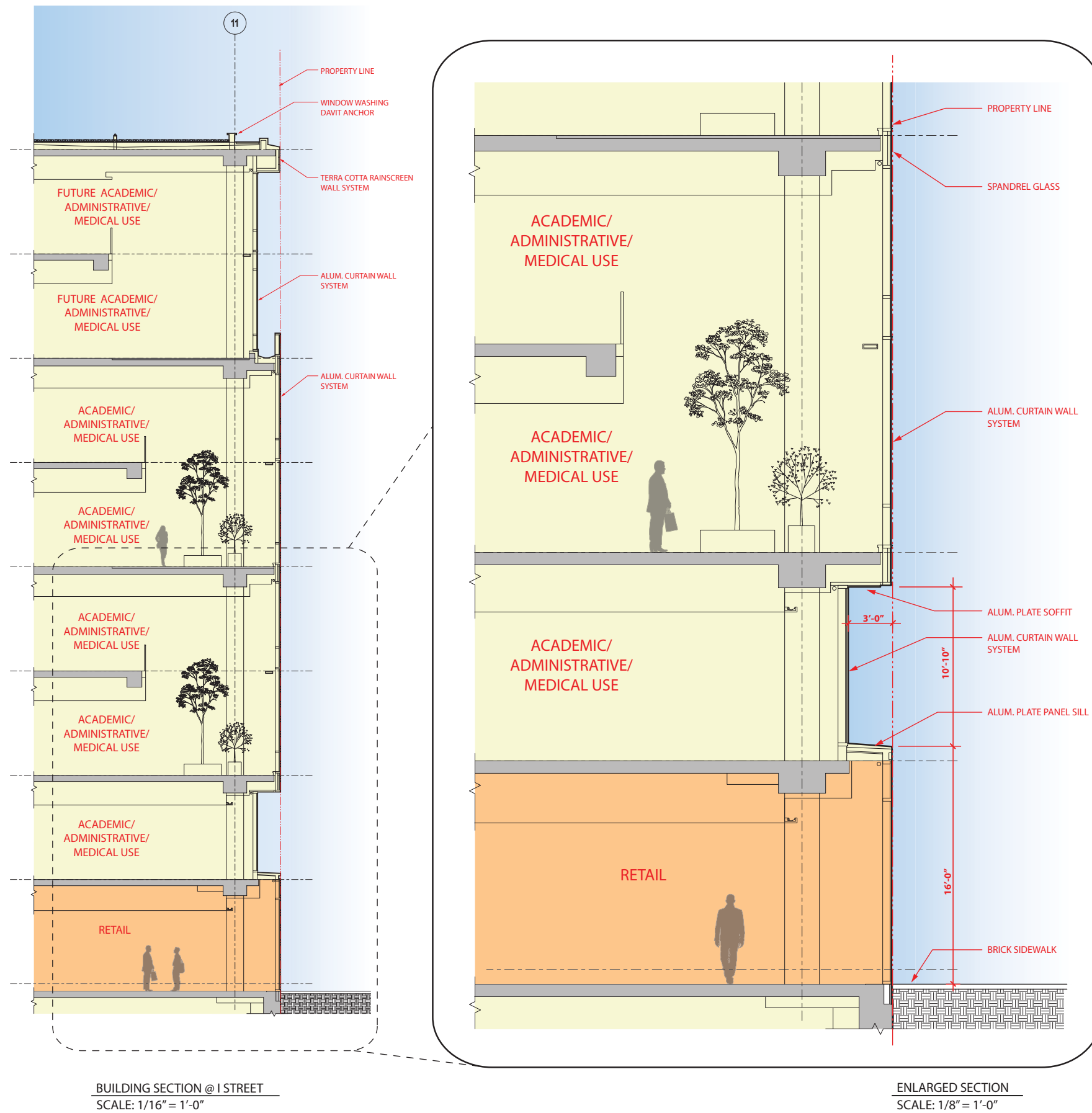
SECOND-STAGE
PUD APPLICATION

TITLE:

PARTIAL
SECTION AT
RETAIL
ENTRANCE

NUMBER:

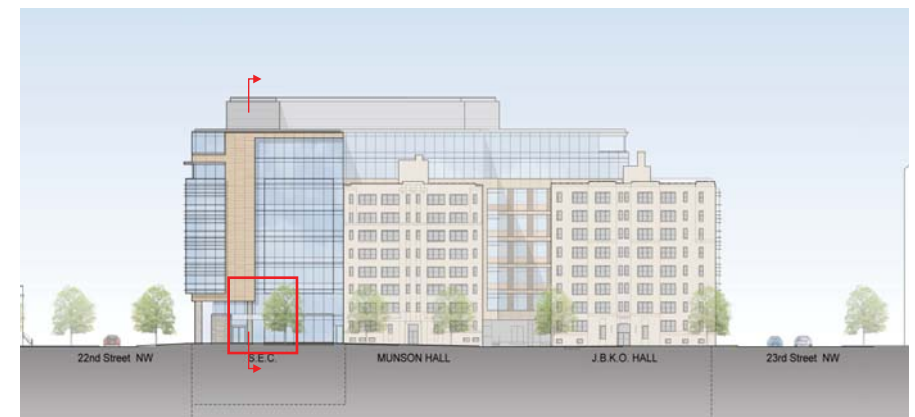
A-59



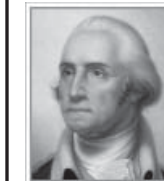
MODEL PHOTO OF NORTHEAST CORNER



PERSPECTIVE VIEW OF NORTHEAST CORNER



EYE STREET ELEVATION



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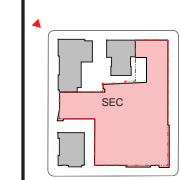
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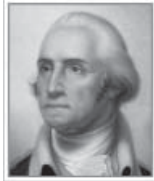
SECOND-STAGE
PUD APPLICATION

TITLE:

MODEL
PHOTOGRAPHS

NUMBER:

A-61



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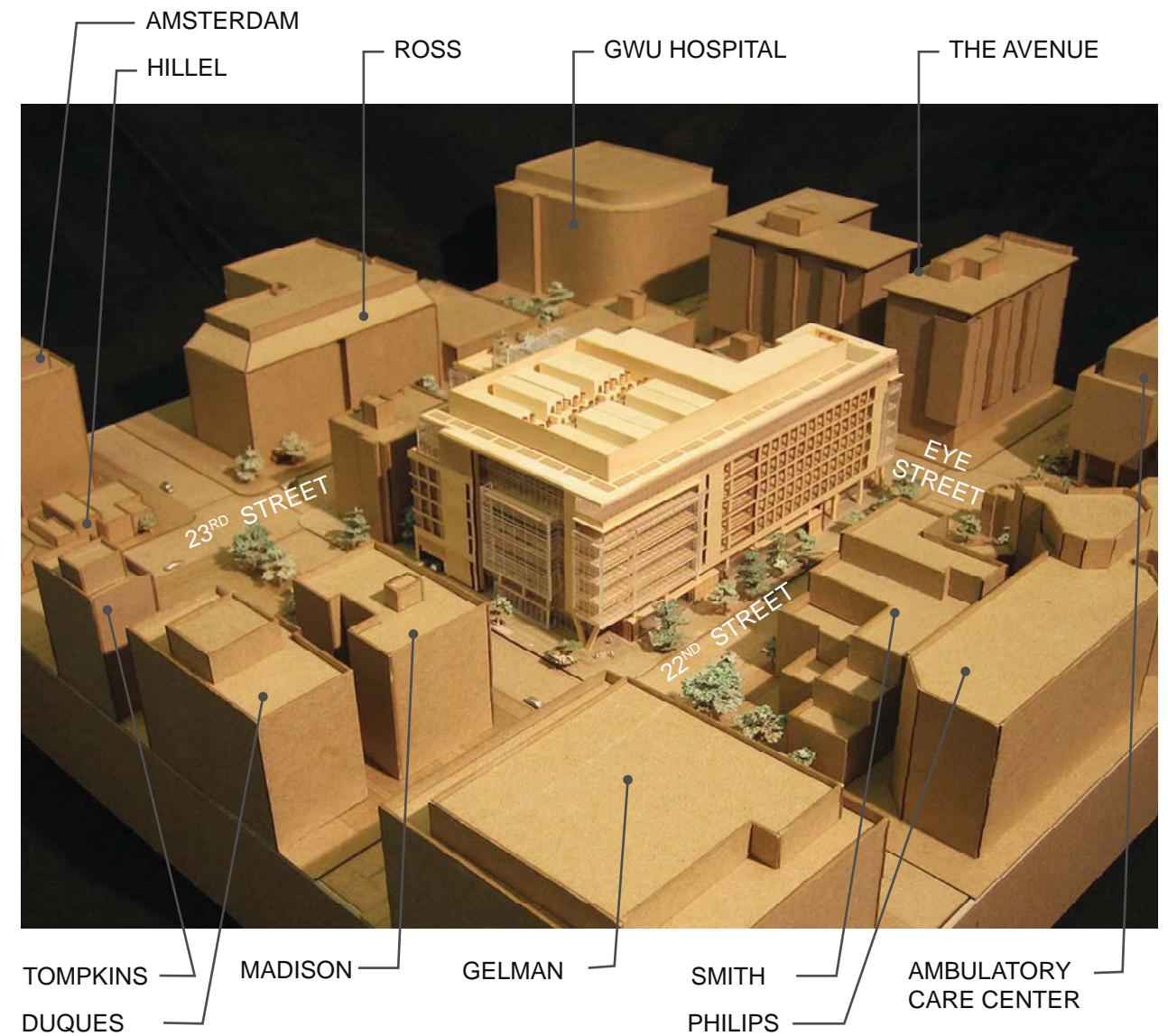
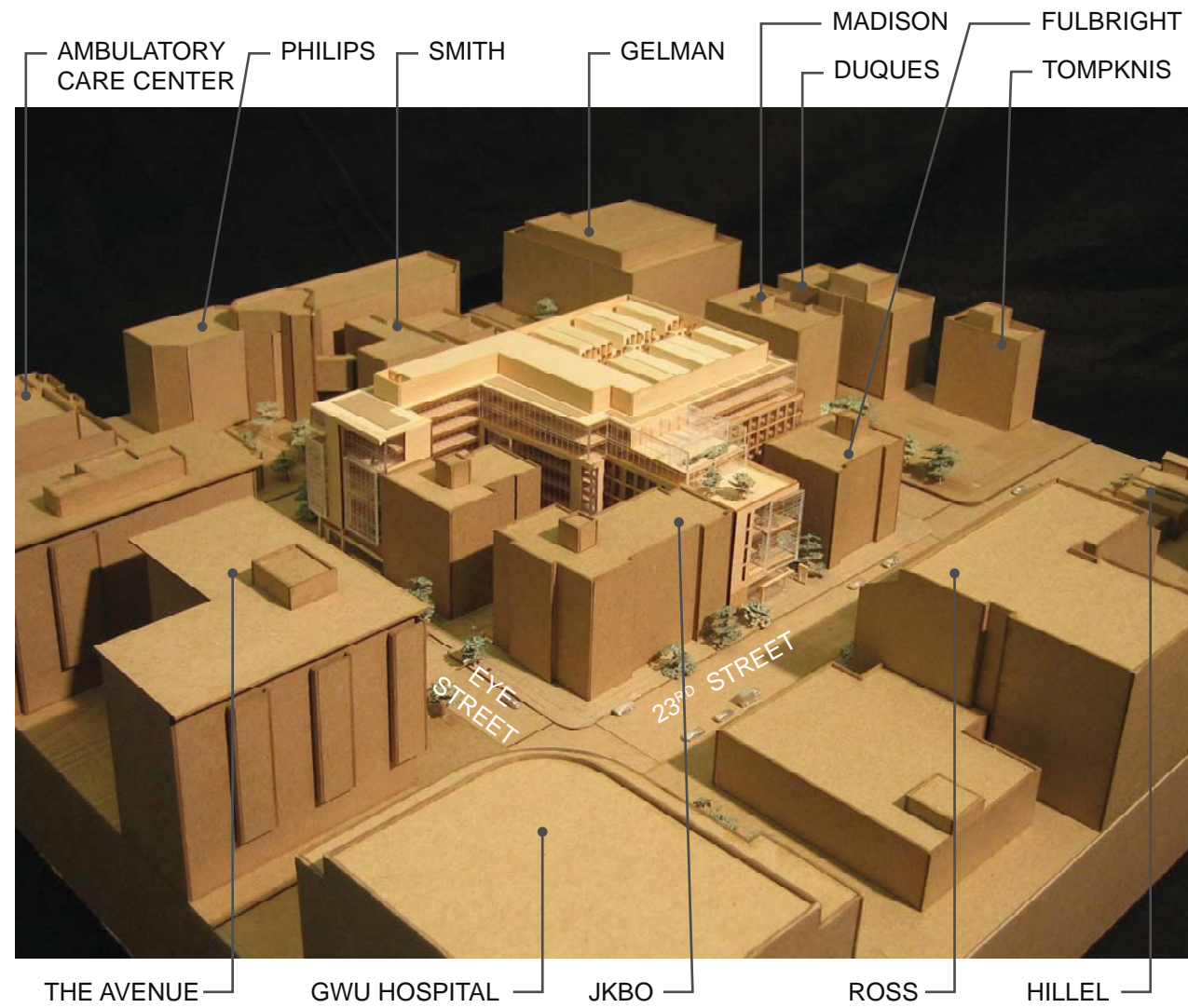
SECOND-STAGE
PUD APPLICATION

TITLE:

MODEL
PHOTOGRAPHS

NUMBER:

A-62





LEED 2009 for New Construction and Major Renovation

Project Checklist

Science and Engineering Complex, The George Washington University
10/19/2010 - PUD

20 6 0 Sustainable Sites Possible Points: 26

Y	N	?	Prereq	Description	Points
Y			Prereq 1	Construction Activity Pollution Prevention	
1			Credit 1	Site Selection	1
5			Credit 2	Development Density and Community Connectivity	5
	1		Credit 3	Brownfield Redevelopment	1
6			Credit 4.1	Alternative Transportation—Public Transportation Access	6
1			Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms	1
3			Credit 4.3	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicle	3
	2		Credit 4.4	Alternative Transportation—Parking Capacity	2
	1		Credit 5.1	Site Development—Protect or Restore Habitat	1
	1		Credit 5.2	Site Development—Maximize Open Space	1
1			Credit 6.1	Stormwater Design—Quantity Control	1
1			Credit 6.2	Stormwater Design—Quality Control	1
1			Credit 7.1	Heat Island Effect—Non-roof	1
1			Credit 7.2	Heat Island Effect—Roof	1
	1		Credit 8	Light Pollution Reduction	1

8 2 0 Water Efficiency Possible Points: 10

Y	N	?	Prereq	Description	Points
Y			Prereq 1	Water Use Reduction—20% Reduction	
4			Credit 1	Water Efficient Landscaping	2 to 4
2			Credit 2	Innovative Wastewater Technologies	2
2	2		Credit 3	Water Use Reduction	2 to 4

14 21 0 Energy and Atmosphere Possible Points: 35

Y	N	?	Prereq	Description	Points
Y			Prereq 1	Fundamental Commissioning of Building Energy Systems	
Y			Prereq 2	Minimum Energy Performance	0
Y			Prereq 3	Fundamental Refrigerant Management	
5	14		Credit 1	Optimize Energy Performance	1 to 19
	7		Credit 2	On-Site Renewable Energy	1 to 7
2			Credit 3	Enhanced Commissioning	2
2			Credit 4	Enhanced Refrigerant Management	2
3			Credit 5	Measurement and Verification	3
2			Credit 6	Green Power	2

4 10 0 Materials and Resources Possible Points: 14

Y	N	?	Prereq	Description	Points
Y			Prereq 1	Storage and Collection of Recyclables	0
	3		Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof	1 to 3
	1		Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements	1
2			Credit 2	Construction Waste Management	1 to 2
	2		Credit 3	Materials Reuse	1 to 2

Materials and Resources, Continued

Y	N	?	Credit	Description	Points
1	1		Credit 4	Recycled Content	1 to 2
1	1		Credit 5	Regional Materials	1 to 2
	1		Credit 6	Rapidly Renewable Materials	1
	1		Credit 7	Certified Wood	1

8 7 0 Indoor Environmental Quality Possible Points: 15

Y	N	?	Prereq	Description	Points
Y			Prereq 1	Minimum Indoor Air Quality Performance	0
Y			Prereq 2	Environmental Tobacco Smoke (ETS) Control	0
1			Credit 1	Outdoor Air Delivery Monitoring	1
	1		Credit 2	Increased Ventilation	1
1			Credit 3.1	Construction IAQ Management Plan—During Construction	1
	1		Credit 3.2	Construction IAQ Management Plan—Before Occupancy	1
1			Credit 4.1	Low-Emitting Materials—Adhesives and Sealants	1
1			Credit 4.2	Low-Emitting Materials—Paints and Coatings	1
1			Credit 4.3	Low-Emitting Materials—Flooring Systems	1
	1		Credit 4.4	Low-Emitting Materials—Composite Wood and Agrifiber Products	1
1			Credit 5	Indoor Chemical and Pollutant Source Control	1
1			Credit 6.1	Controllability of Systems—Lighting	1
	1		Credit 6.2	Controllability of Systems—Thermal Comfort	1
1			Credit 7.1	Thermal Comfort—Design	1
	1		Credit 7.2	Thermal Comfort—Verification	1
	1		Credit 8.1	Daylight and Views—Daylight	1
	1		Credit 8.2	Daylight and Views—Views	1

3 3 0 Innovation and Design Process Possible Points: 6

Y	N	?	Credit	Description	Points
1			Credit 1.1	Innovation in Design: Exemplary Performance SSc2 - Double Density	1
1			Credit 1.2	Innovation in Design: Exemplary Performance SSc7.1 - 100% parking	1
	1		Credit 1.3	Innovation in Design: Exemplary Performance SSc4.1 or EAc6	1
	1		Credit 1.4	Innovation in Design: Education / Materials Reduction	1
	1		Credit 1.5	Innovation in Design: Green Cleaning	1
1			Credit 2	LEED Accredited Professional	1

1 3 0 Regional Priority Credits Possible Points: 4

Y	N	?	Credit	Description	Points
	1		Credit 1.1	Regional Priority: SSc6.1	1
	1		Credit 1.2	Regional Priority: EAc1 (40%), EAc2 (1%)	1
1			Credit 1.3	Regional Priority: WEc2	1
	1		Credit 1.4	Regional Priority: SSc5.1, MRC1.1	1

58 52 0 Total Possible Points: 110

Certified 40 to 49 points Silver 50 to 59 points Gold 60 to 79 points Platinum 80 to 110

NOTE: The 2007 Foggy Bottom Campus Plan commits GW to achieving the equivalency of 16 points, using USGBC's LEED V2.2 Scorecard as an evaluator of the sustainable quotient of a project. This scorecard reflects GW's anticipated goal of submitting this project to GBCI under LEED-NC 2009 (V3.0) with a target of Silver level certification.



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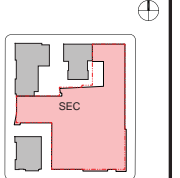
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Hickok Cole



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DATE: MARCH 4, 2011

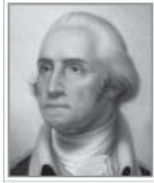
SECOND-STAGE PUD APPLICATION

TITLE:

LEED CHECKLIST

NUMBER:

A-71



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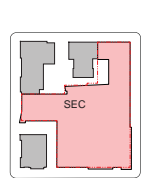
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SECOND-STAGE
PUD APPLICATION

TITLE:

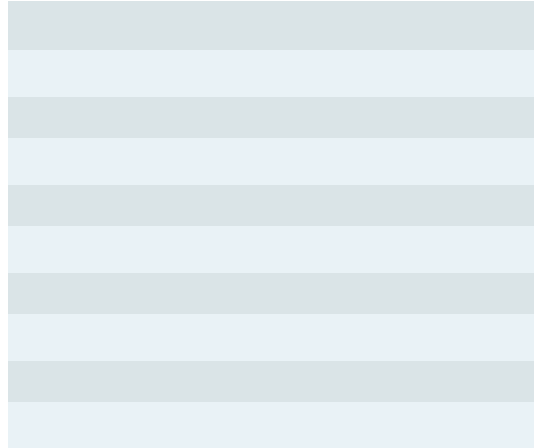
BUILDING
MATERIALS

NUMBER:

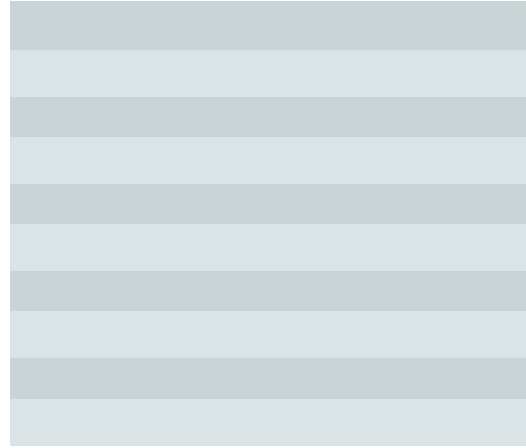
A-81



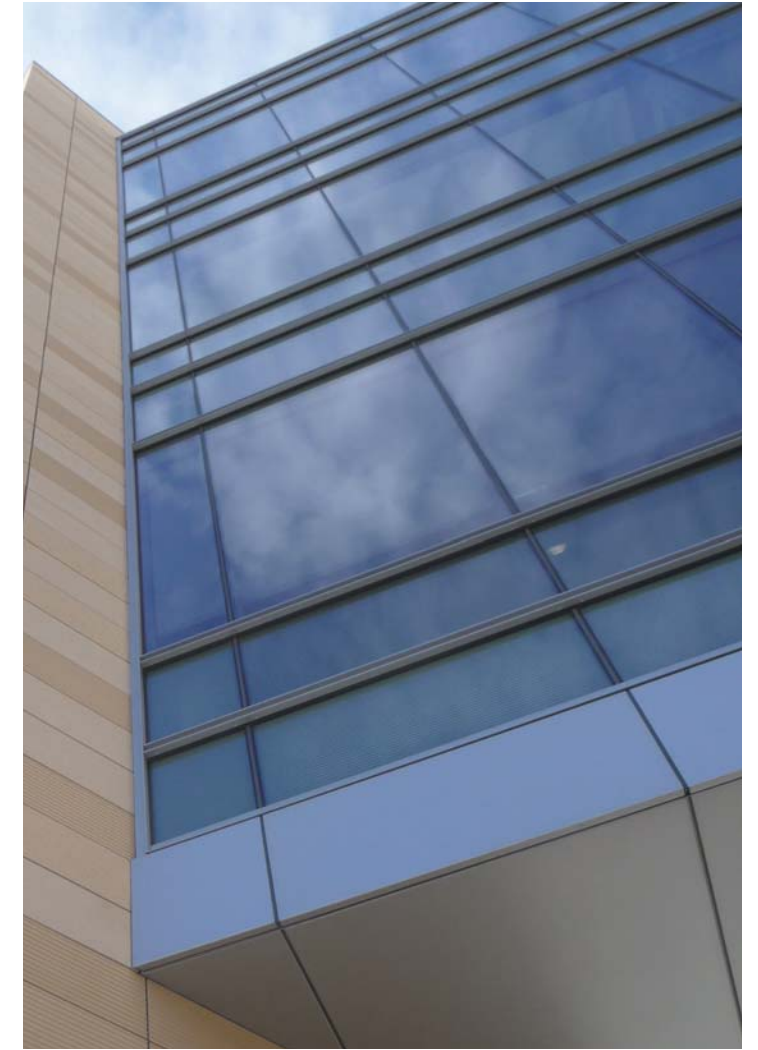
GLASS - Clear Low-E



Clear Low-E w/ Frit



Spandrel Glass w/ Frit



TERRA COTTA - Grooved



TERRA COTTA - Wirestruck



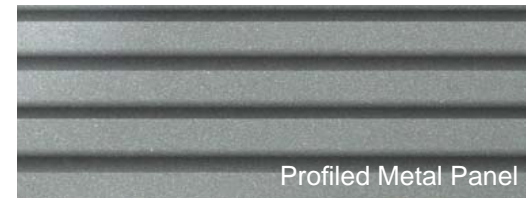
TERRA COTTA - Sandblasted



GRANITE - Silver Gray



TERRA COTTA - Accent Color



Profiled Metal Panel



Metal Panel

ALUMINUM - Paint



Blended Terra Cotta Pattern