



LAWRENCE PUBLIC LIBRARY

Schematic Design Package
Lawrence Public Library + Addition
October 20, 2011

GouldEvans

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The Process/Resources and Approvals:

Library Staff, Technology vendors
Public Works, Planning and Development
Parks and Recreation
Historic Resources Commission
Library Board of Trustees
City Commission
Library Foundation, Friends of the Library
Senior Center, Fire and Medical
Old West Lawrence, LAN
Lawrence Preservation Alliance
Public Meetings

Key Components of the Solution:

20,000 additional new square feet and renovation of existing spaces towards improvement of every major area of the library.

Doubled the size of the children's area allowing space for age appropriate shelving and a dedicated program room.

Doubled the size of the community meeting rooms allowing for expanded capacity and more options available to the public.

Added 100 new public access computers

More space for popular display of books, seating and reading areas, and other materials

New technologies supporting customer service and efficient operations

Double the current amount of parking

Design that addresses Library Trends:

Flexibility – openness, new formats, content creation, adjustability, connectivity

Self Service – reserves, check out, online access, printing

Retail Model – transparency, coffee shop, intuitive browsing, face out display

Community Anchor – meeting rooms, social spaces, all age ranges, community specific display, relationship to outdoor space

Learning and Literacy – small group meeting space, age specific spaces, classes and programming, computer lab, business center

Sustainability – energy efficiency, health and safety improvements (LEED building)

Customer Convenience – popular collection, after hours access, service window

Lawrence Public Library Addition and Renovation - Budget			
	Schematic Design		2011.10.20
1.0 Construction Cost			
building construction and renovation	66,560 sf @	\$135 /sf	\$9,005,760
parking garage	250 cars @	\$ 17,000 /car	\$4,250,000
sitework			\$600,000
estimate/design contingency/escalation	8%		\$1,066,894
Total Construction Costs		\$	14,922,654
2.0 Development Costs			
RFID, equipment, communications allowance			740,000
furnishings, signage, art, moving costs	\$27/sf		1,230,000
fees, testing, permits, misc. lump sum			1,342,051
owner's administration, insurance and legal	not included		0
hazardous material abatement	not included		0
Total Development Costs	22%	\$	3,312,051
	% of construction costs		
3.0 Project Cost			
construction contingency	4%	\$	596,906
project costs contingency	5%		165,603
PROJECT COSTS		\$	18,997,213
deduct fund-raising commitment	lump sum	\$	1,000,000
TOTAL PROJECT COSTS		\$	17,997,213
Additional parking level	72 cars		1,400,000
	bid alternate		

project budget



LEED 2009 for New Construction and Major Renovations
Project Checklist_Schematic Design

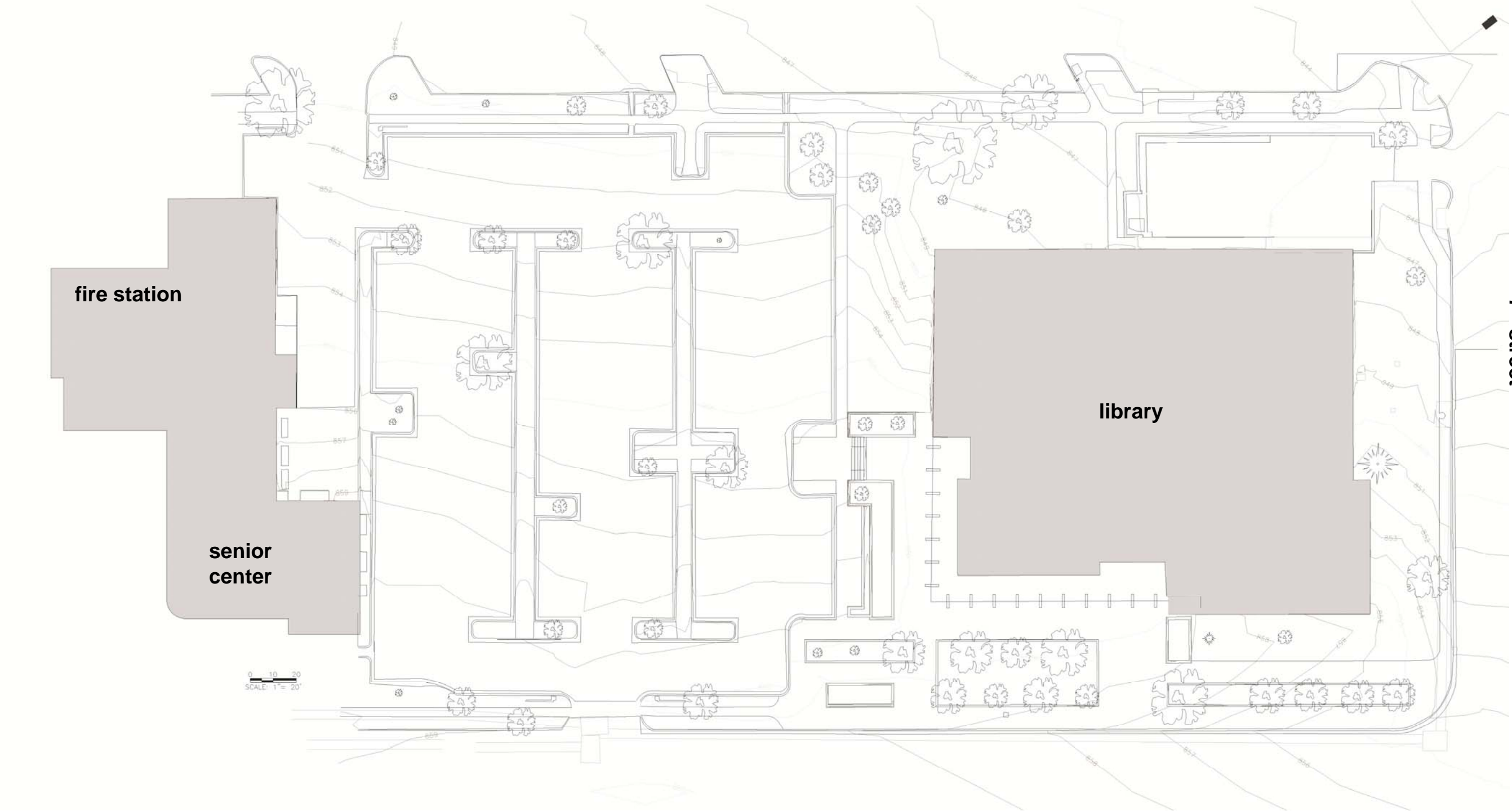
Lawrence Public Library Renovation and Addition
2011.10.20

17	4	5	Sustainable Sites			Possible Points: 26	
Y	N	?	d/C				Notes:
Y			C Prereq 1	Construction Activity Pollution Prevention			Erosion Control and Sedimentation design / prevent dust
1			d Credit 1	Site Selection	1		Can't be farmland, park, wetlands in floodplane or w/in 50' of water
5			d Credit 2	Development Density and Community Connectivity	5		density: 10 units / acre, 1/2 mile of 10 basic services, ped access
	1		d Credit 3	Brownfield Redevelopment	1		site would need to be contaminated
6			d Credit 4.1	Alternative Transportation—Public Transportation Access	6		w/in 1/4 mile of bus line or dedicated bike lane
1			d Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms	1		need bike rack and shower / changing facilities
3			d Credit 4.3	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	3		5% of parking for low-emitting or fuel-efficient vehicles.
	2		d Credit 4.4	Alternative Transportation—Parking Capacity	2		Size to minimum parking requirements
	1		C Credit 5.1	Site Development—Protect or Restore Habitat	1		Native vegetation for 20% of site area
		1	d Credit 5.2	Site Development—Maximize Open Space	1		Provide vegetation for 20% of open area
		1	d Credit 6.1	Stormwater Design—Quantity Control	1		Control run-off from exceeding the predev peak rates (retention)
		1	d Credit 6.2	Stormwater Design—Quality Control	1		Storm water treatment (natural drainage system) (pervious pavers)
		1	C Credit 7.1	Heat Island Effect—Non-roof	1		50% open permeable pavers, or white concrete
1			d Credit 7.2	Heat Island Effect—Roof	1		SRI of 78 for shallow or 29 for steep slopes
		1	d Credit 8	Light Pollution Reduction	1		Shield interior lighting from 11pm to 5 and use minimum ext lighting
4	2	1	Water Efficiency			Possible Points: 10	
Y	N	?					Notes:
Y			d Prereq 1	Water Use Reduction—20% Reduction			Use low-flow devices
2			d Credit 1	Water Efficient Landscaping	2 to 4		50% for 2 pts; no potable water use for 4 pts.
	2		d Credit 2	Innovative Wastewater Technologies	2		requires graywater toilets
2		1	d Credit 3	Water Use Reduction	2 to 4		30% reduction for 2 pts, 35% for 3 pts; 40% for 4 pts.
10	0	16	Energy and Atmosphere			Possible Points: 35	
Y	N	?					Notes:
Y			C Prereq 1	Fundamental Commissioning of Building Energy Systems			
Y			d Prereq 2	Minimum Energy Performance			
Y			d Prereq 3	Fundamental Refrigerant Management			
10			d Credit 1	Optimize Energy Performance	1 to 19		30% reduction for new buildings or 26% for renovations
		7	d Credit 2	On-Site Renewable Energy	1 to 7		1% to 13% renewable energy
		2	C Credit 3	Enhanced Commissioning	2		Service for evaluation and tweaking of building performance
		2	d Credit 4	Enhanced Refrigerant Management	2		No refrigerants - need to review existing equip to remain
		3	C Credit 5	Measurement and Verification	3		requires building automation controls
		2	C Credit 6	Green Power	2		will require purchase of green tags
6	0	7	Materials and Resources			Possible Points: 14	
Y	N	?					Notes:
Y			d Prereq 1	Storage and Collection of Recyclables			
1		1	C Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof	1 to 3		55% for 1 pt; 75% for 2 pts; 95% for 3 pts
		1	C Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements	1		
1		1	C Credit 2	Construction Waste Management	1 to 2		divert 50% from landfill for 1 pt; 75% for 2 pts.
1		1	C Credit 3	Materials Reuse	1 to 2		5% for 1 pt; 10% for 2 pts.
1		1	C Credit 4	Recycled Content	1 to 2		steel, gyp board, concrete, ceiling tile, insulation etc., 10% or 20%
1		1	C Credit 5	Regional Materials	1 to 2		manufactured, extracted, etc within 500 miles of site, 10% or 20%
		1	C Credit 6	Rapidly Renewable Materials	140,000 1		cork, linoleum (2.5% of value of all materials)
1			C Credit 7	Certified Wood	1		fsc for 50% of value of wood on the project

LEED checklist

9	0	6	Indoor Environmental Quality		Possible Points: 15
Y	N	?			Notes:
Y			d	Prereq 1 Minimum Indoor Air Quality Performance	
Y			d	Prereq 2 Environmental Tobacco Smoke (ETS) Control	
		1	d	Credit 1 Outdoor Air Delivery Monitoring	1 CO2 monitoring
		1	d	Credit 2 Increased Ventilation	1
1			c	Credit 3.1 Construction IAQ Management Plan—During Construction	1 protection of materials , temporary hvac
1			c	Credit 3.2 Construction IAQ Management Plan—Before Occupancy	1 flush out
1			c	Credit 4.1 Low-Emitting Materials—Adhesives and Sealants	1 low VOC
1			c	Credit 4.2 Low-Emitting Materials—Paints and Coatings	1 low VOC
1			c	Credit 4.3 Low-Emitting Materials—Flooring Systems	1 low VOC
1			c	Credit 4.4 Low-Emitting Materials—Composite Wood and Agrifiber Products	1 low VOC
1			d	Credit 5 Indoor Chemical and Pollutant Source Control	1 separation of copy room and cleaning supplies, increased ventilation
1			d	Credit 6.1 Controllability of Systems—Lighting	1 individual controllability
		1	d	Credit 6.2 Controllability of Systems—Thermal Comfort	1 individual controllability
1			d	Credit 7.1 Thermal Comfort—Design	1 meet Ashrae 55
		1	d	Credit 7.2 Thermal Comfort—Verification	1 implement a post occupancy user survey
		1	d	Credit 8.1 Daylight and Views—Daylight	1 75% of all regularly occupied spaces with min. footcandles of daylight
		1	d	Credit 8.2 Daylight and Views—Views	1 90% of all regularly occupied spaces with a direct view to exterior
3	0	3	Innovation and Design Process		Possible Points: 6
Y	N	?			Notes:
		1	d/c	Credit 1.1 Innovation in Design: Specific Title	1
		1	d/c	Credit 1.2 Innovation in Design: Specific Title	1 ku prototype stuff
		1	d/c	Credit 1.3 Innovation in Design: Specific Title	1 exemplary in ...
1			d/c	Credit 1.4 Innovation in Design: Specific Title	1 educational program
1			d/c	Credit 1.5 Innovation in Design: Specific Title	1 green housekeeping
1			d/c	Credit 2 LEED Accredited Professional	1
3	0	1	Regional Priority Credits		Possible Points: 4
Y	N	?			Notes:
1			d/c	Credit 1.1 Regional Priority: Specific Credit	1 WEc1 Water Efficient Landscaping
1			d/c	Credit 1.2 Regional Priority: Specific Credit	1 WEc3 Water Use Reduction
1			d/c	Credit 1.3 Regional Priority: Specific Credit	1 MRc2 Construction Waste Management
		1	d/c	Credit 1.4 Regional Priority: Specific Credit	1
52	0	39	Total		Possible Points: 110
Certified 40 to 49 points Silver 50 to 59 points Gold 60 to 79 points Platinum 80 to 110					

kentucky



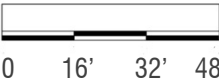
7th Street

library

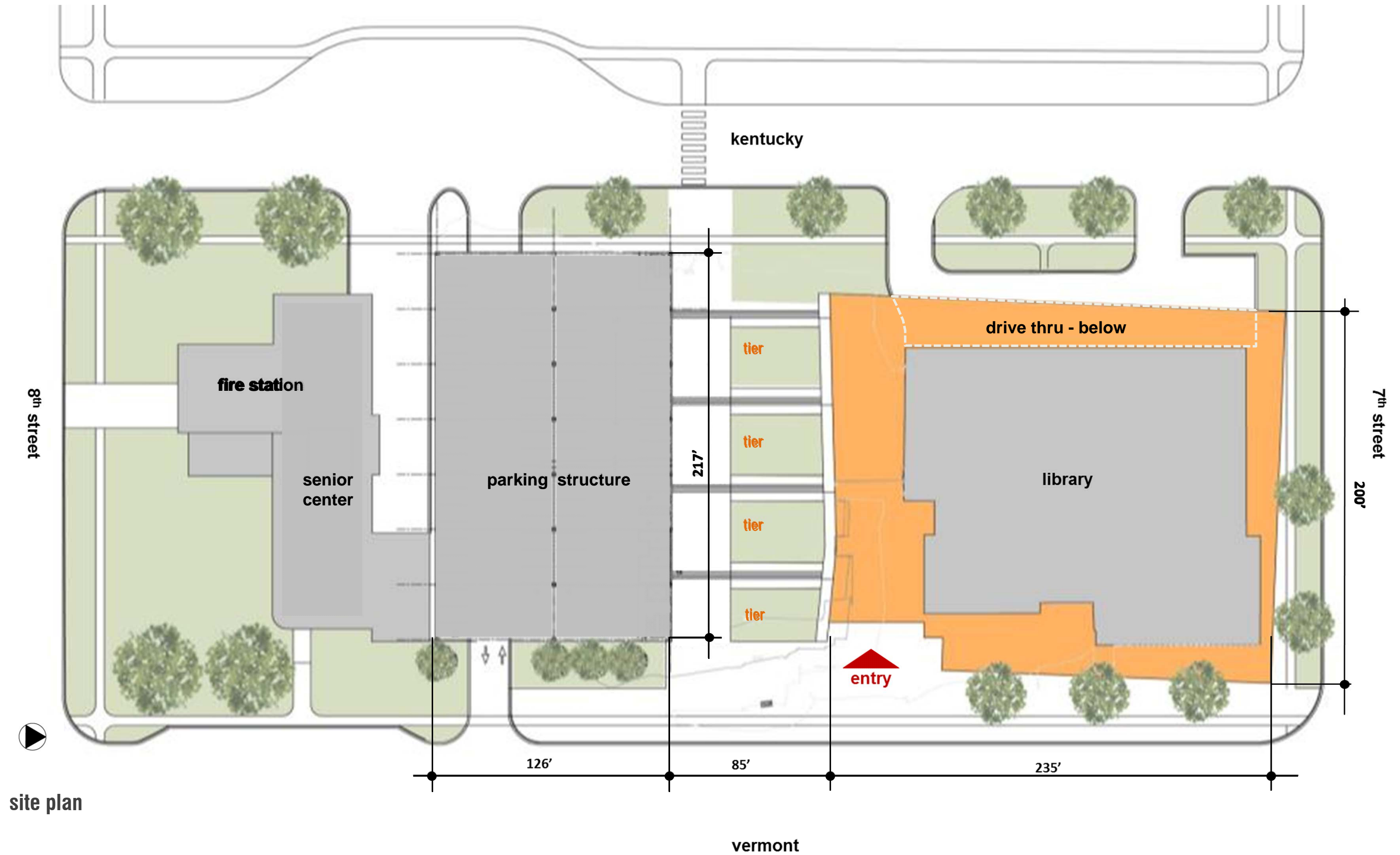
fire station

senior center

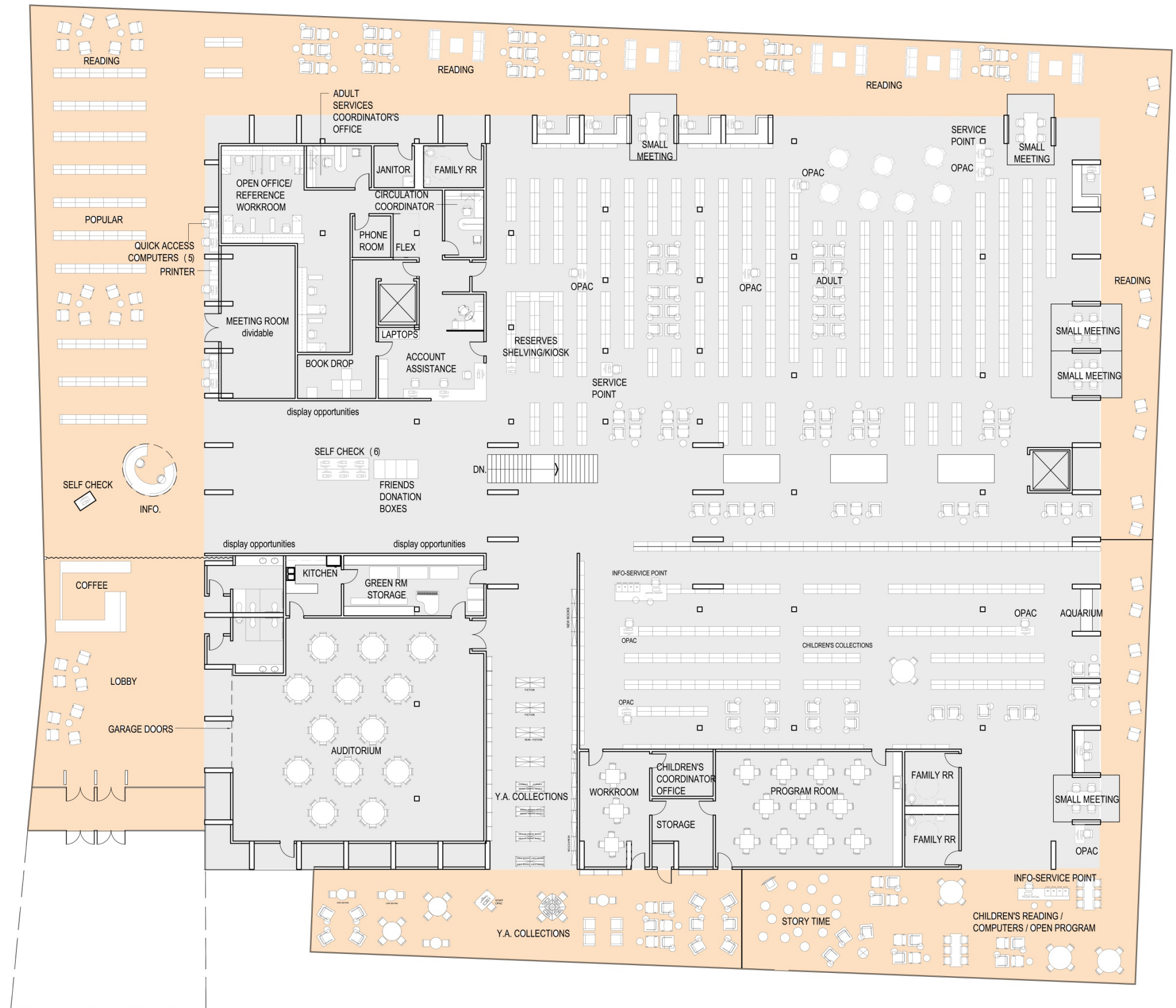
vermont



site survey



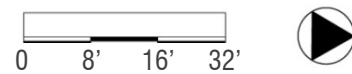
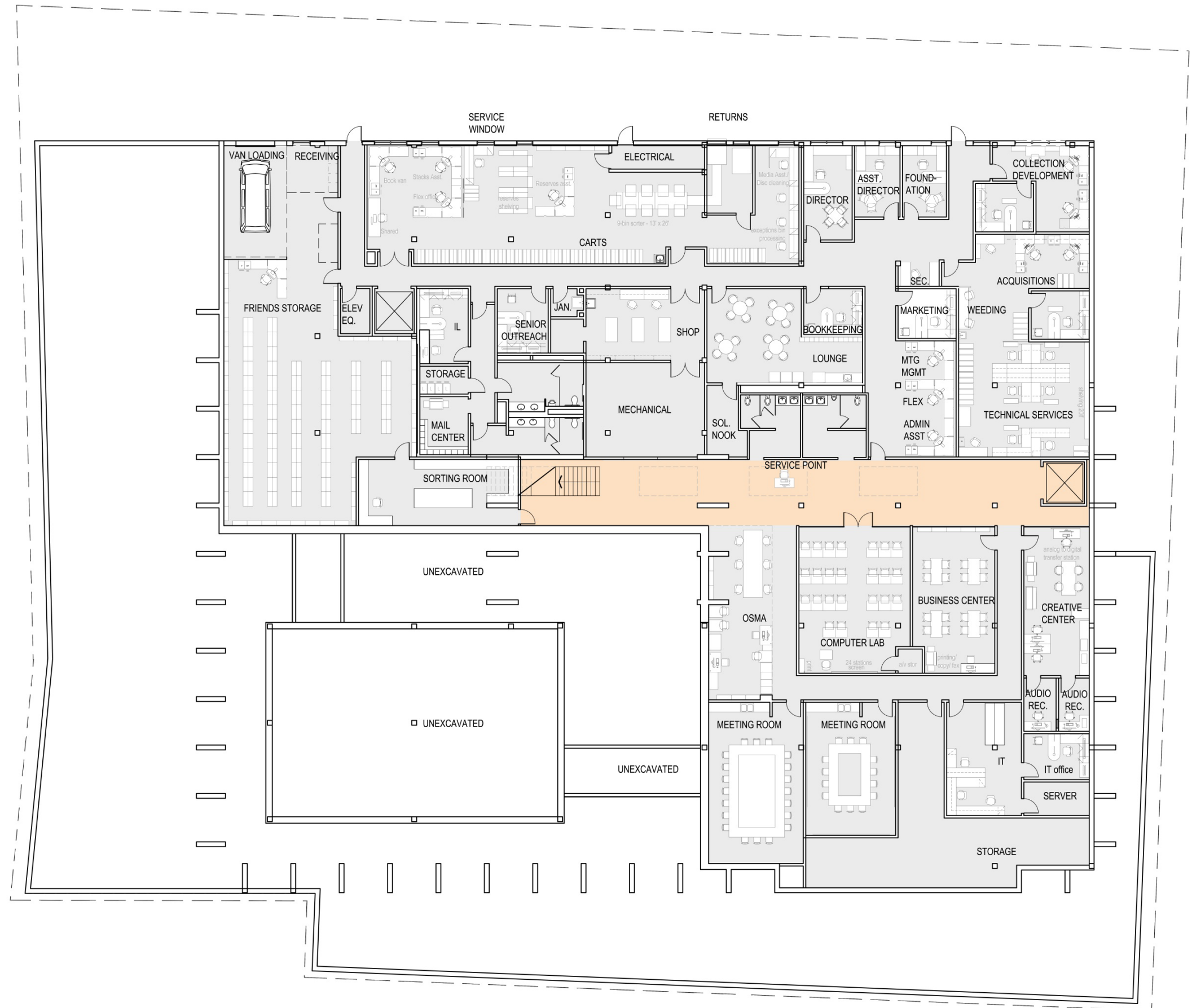
site plan



0 8' 16' 32'

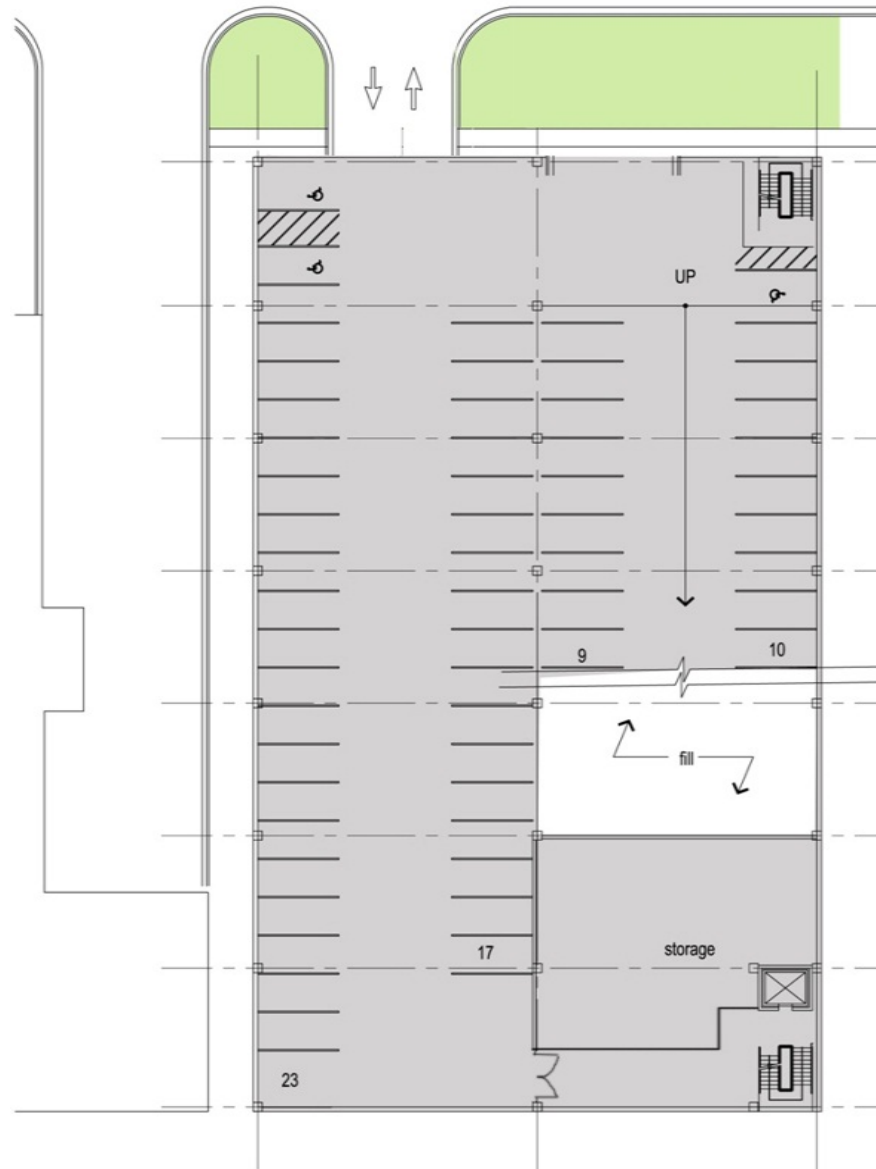


proposed floor plan - first level

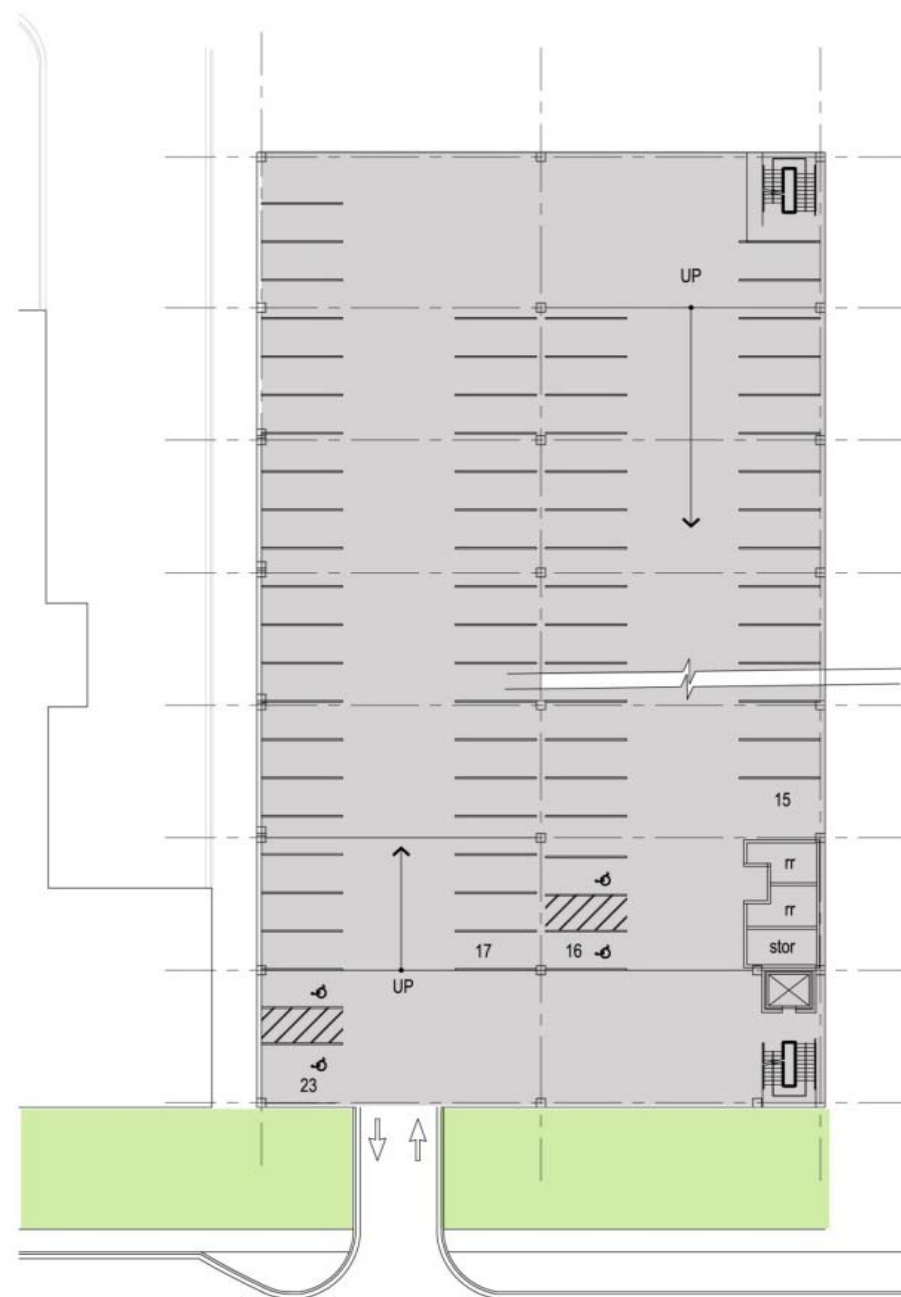


proposed floor plan - lower level

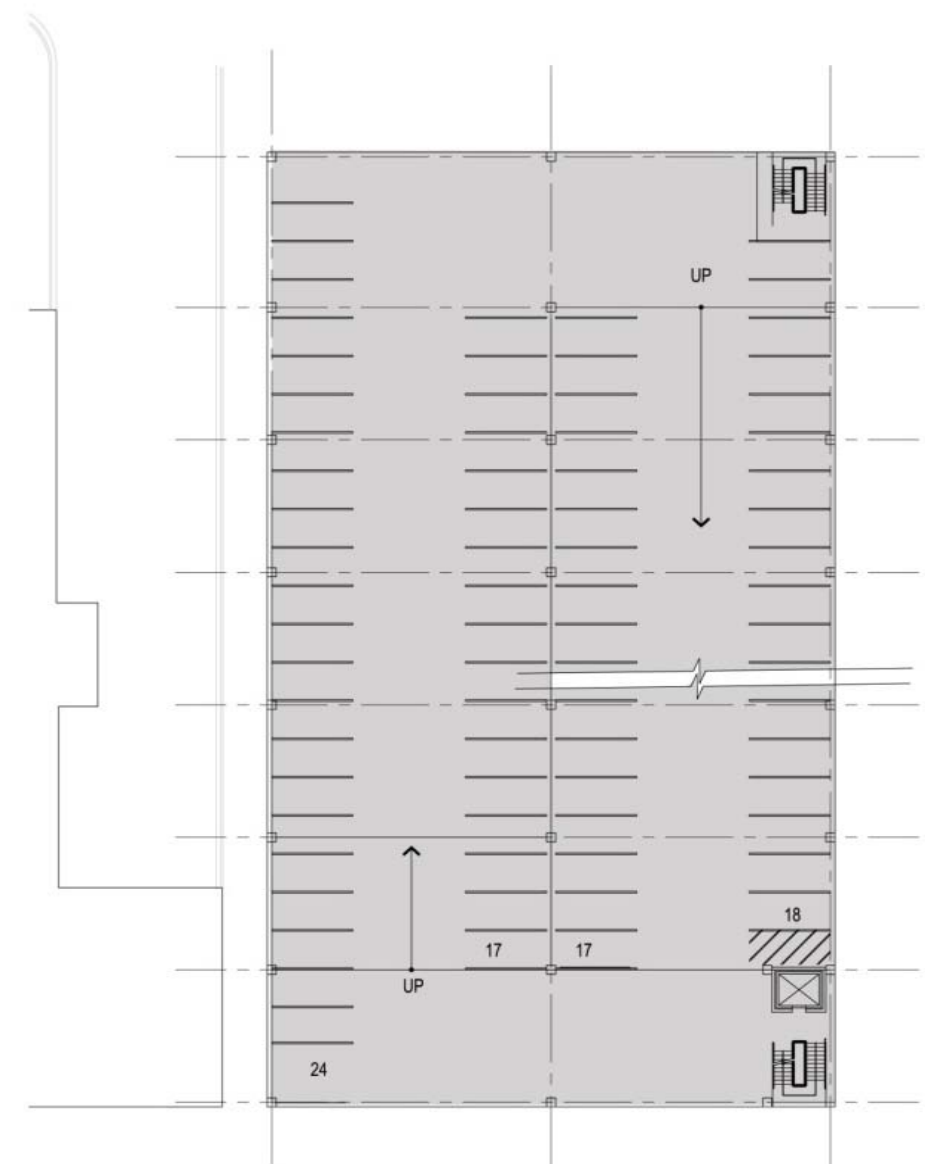
kentucky street entrance



level 0
59 spaces

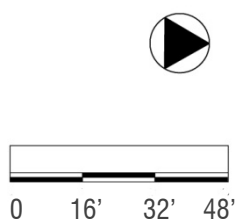


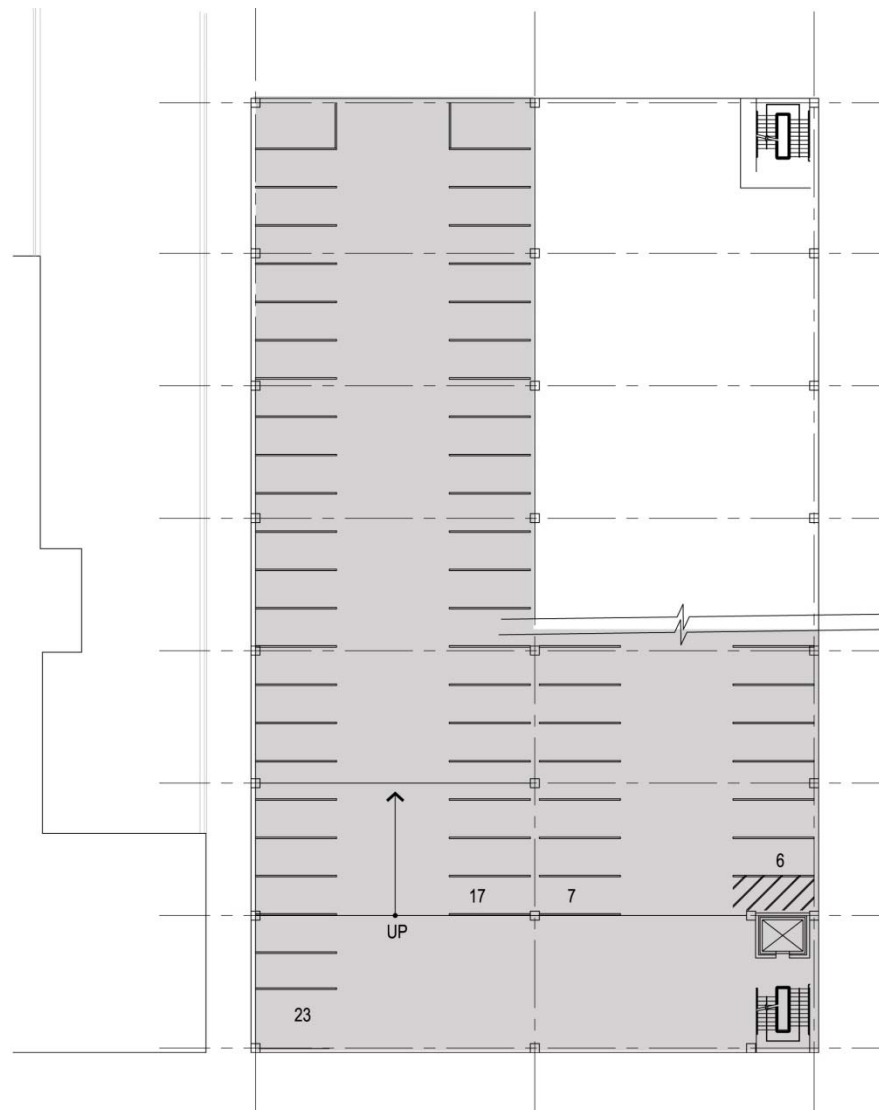
vermont street entrance
level 1
71 spaces



level 2
76 spaces

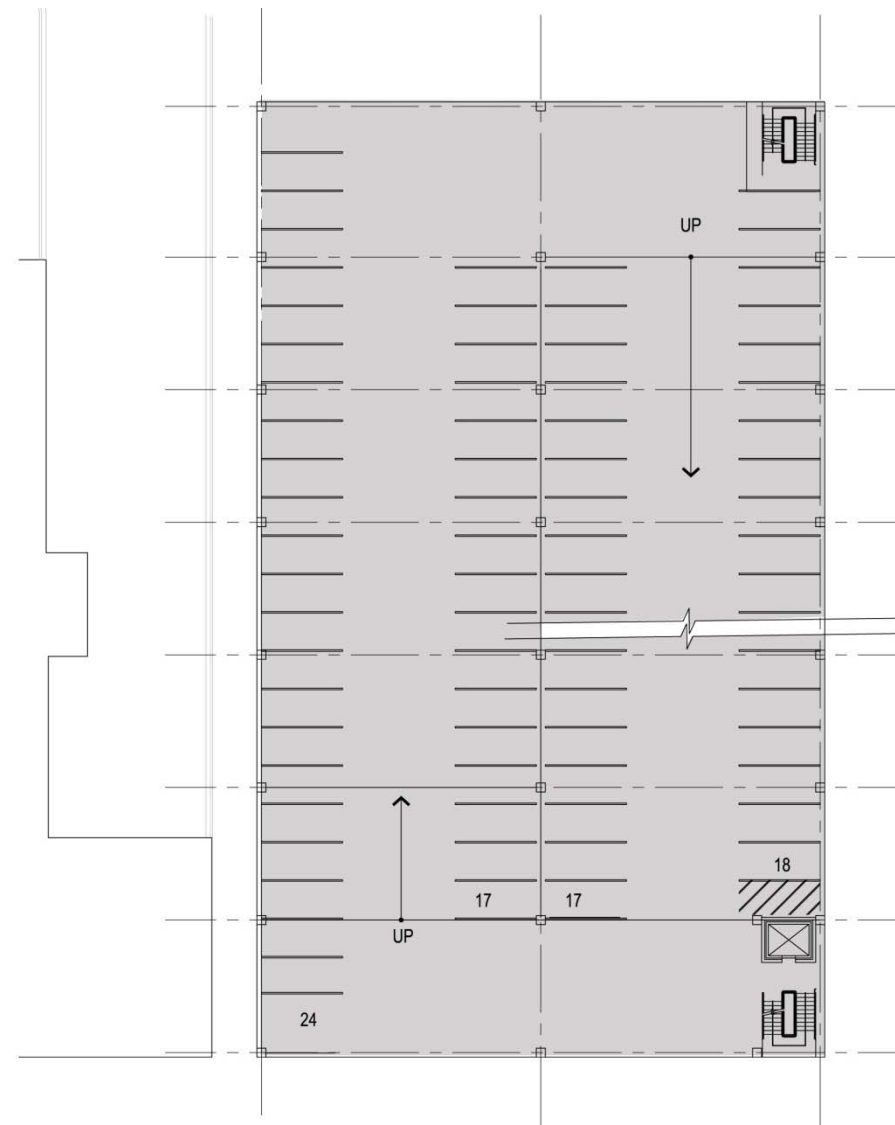
proposed parking garage plans





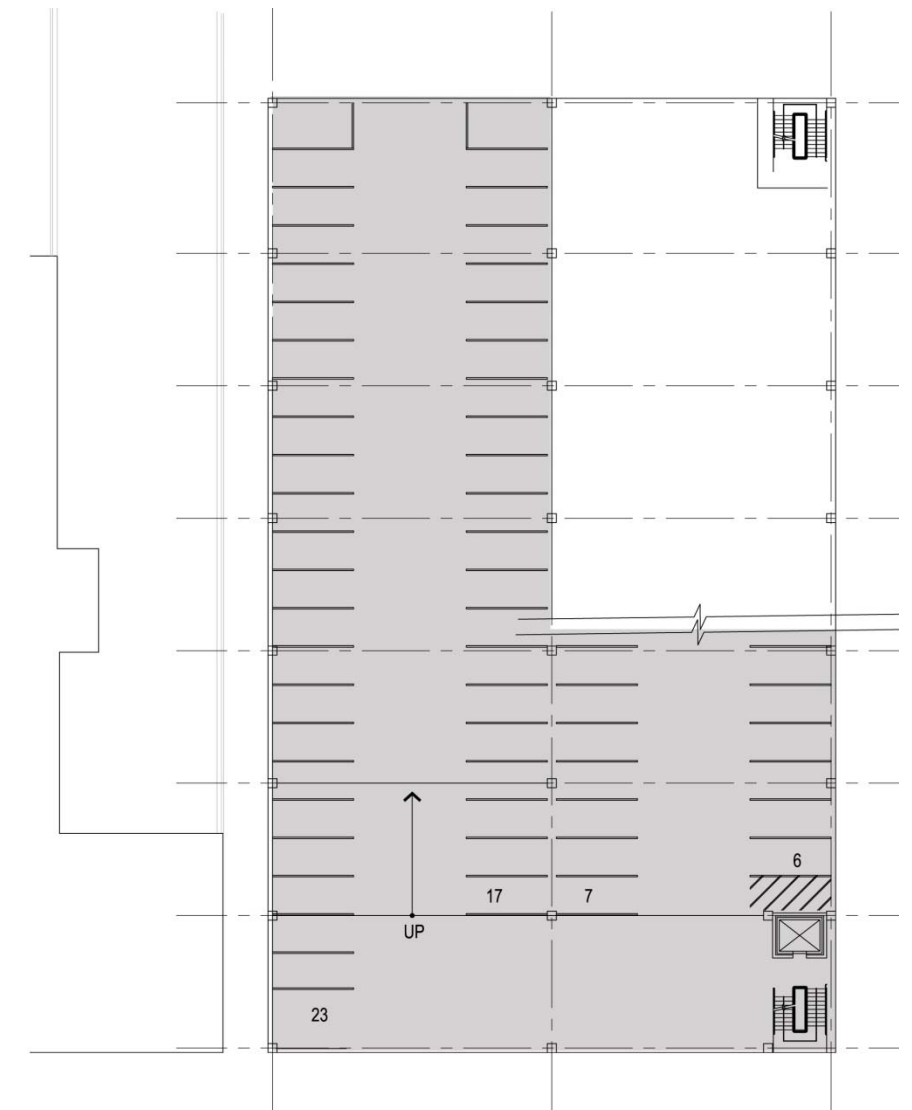
level 3
56 spaces

BASE GARAGE: 262 POSSIBLE SPACES



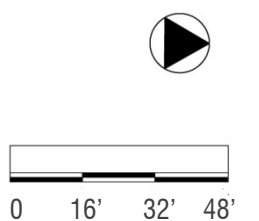
ALTERNATE level 3
76 spaces

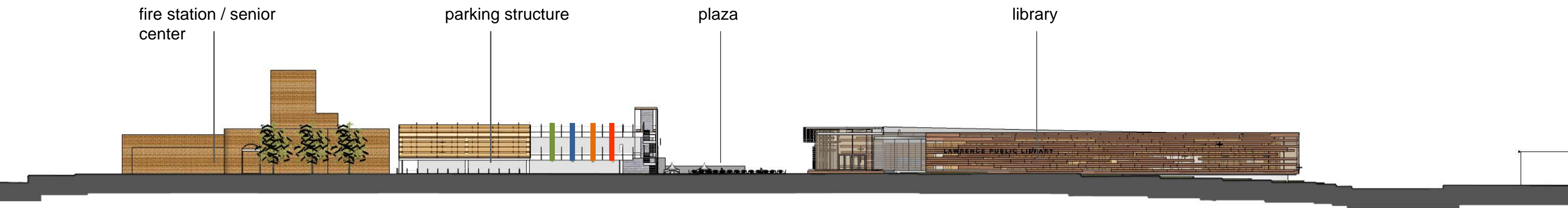
GARAGE EXTRA LEVEL : + 76 POSSIBLE SPACES



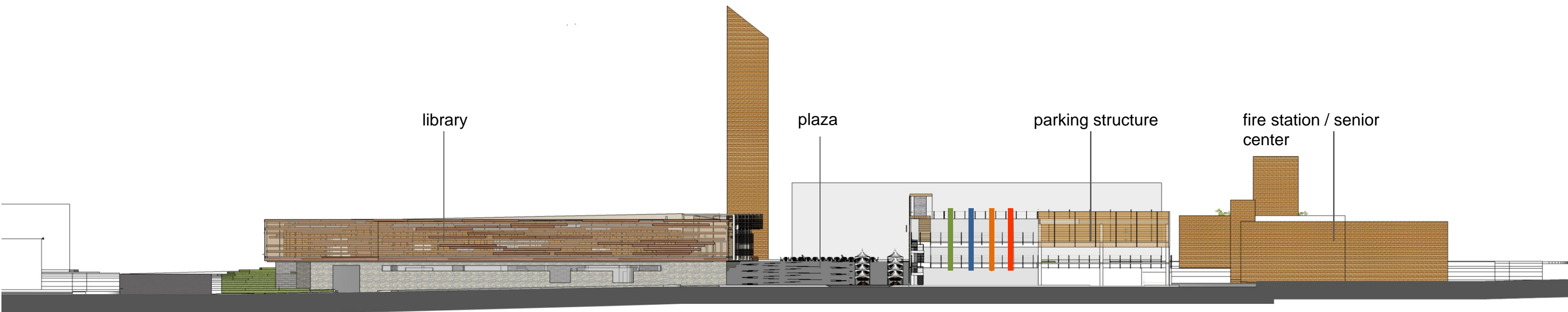
ALTERNATE level 4
56 spaces

proposed parking garage plans





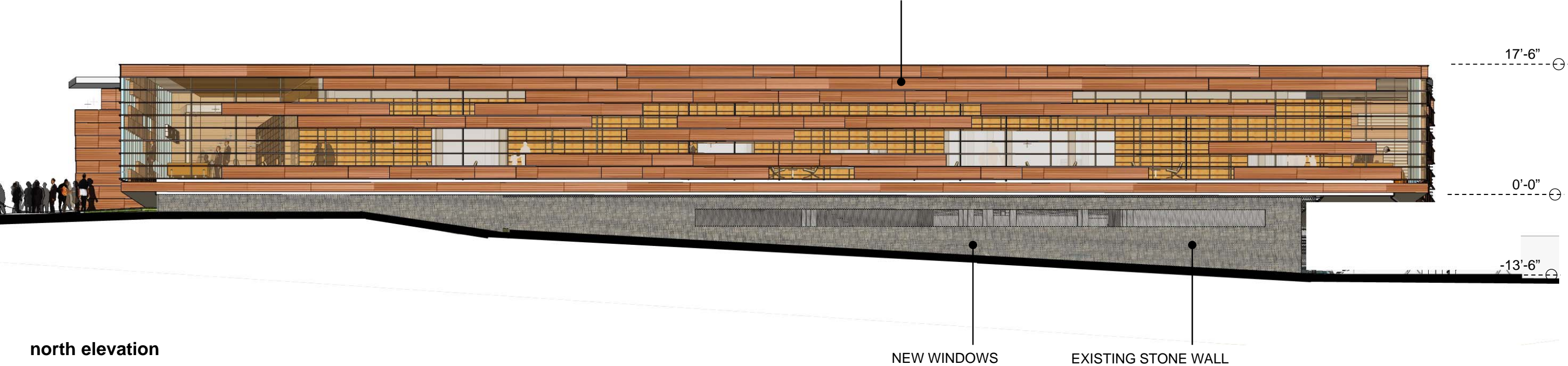
vermont elevation : base parking level



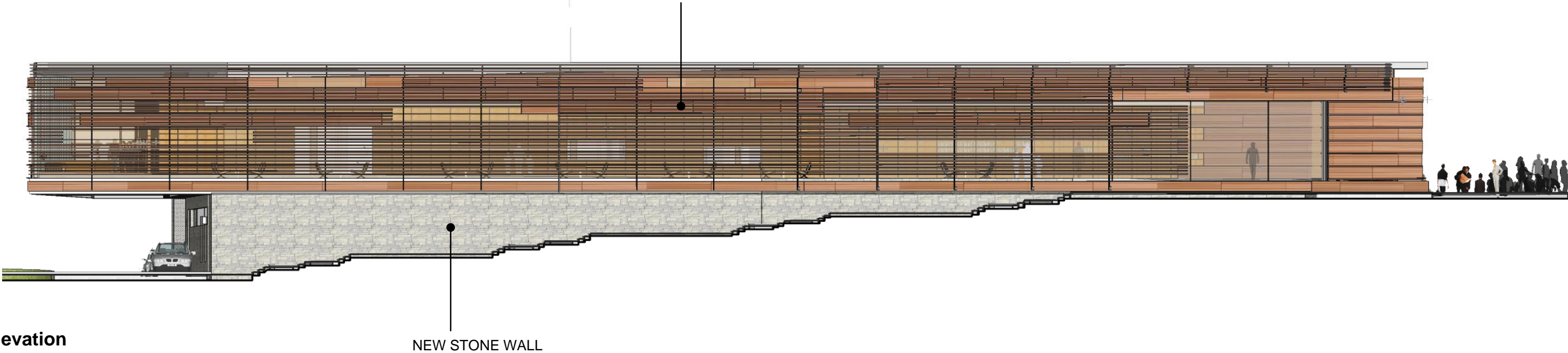
kentucky elevation : base parking level

street elevations

TERRA COTTA / CURTAIN WALL DISTRIBUTED ELEVATION



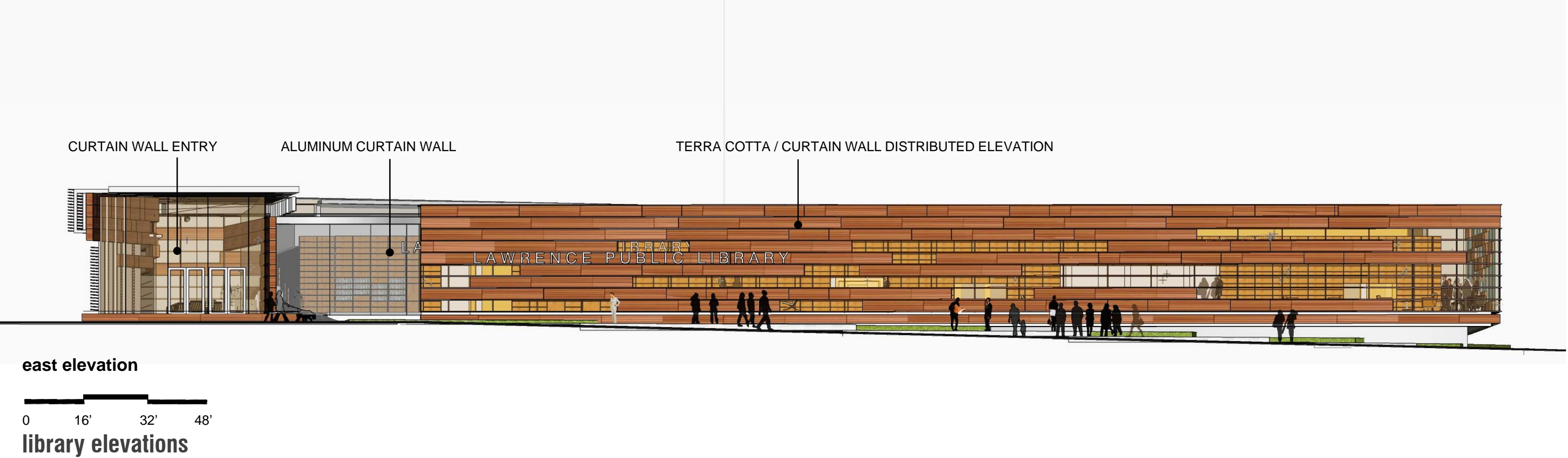
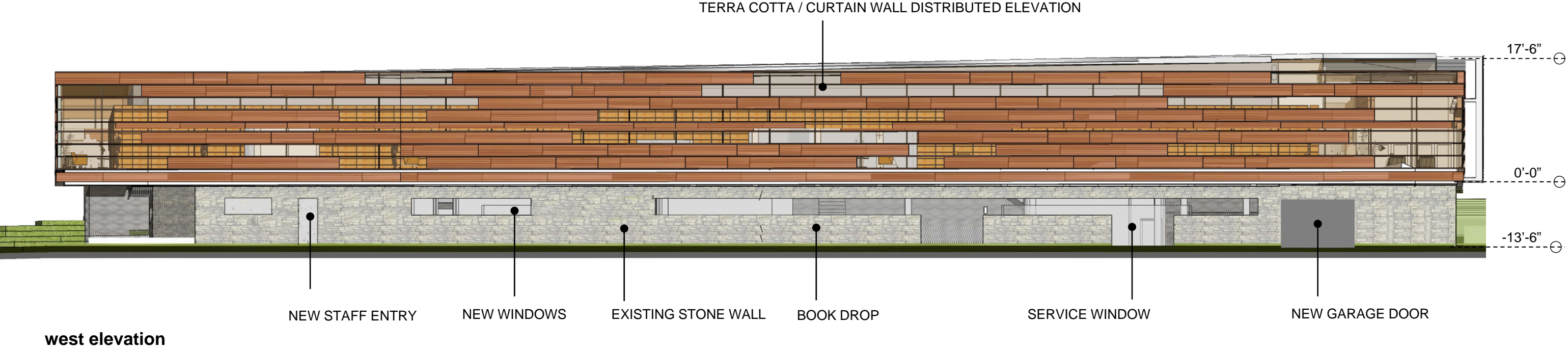
TERRA COTTA BAGUETTE SCREEN
OVER ALUMINUM CURTAIN WALL (LOW)
AND TERRA COTTA RAINSCREEN (HIGH)

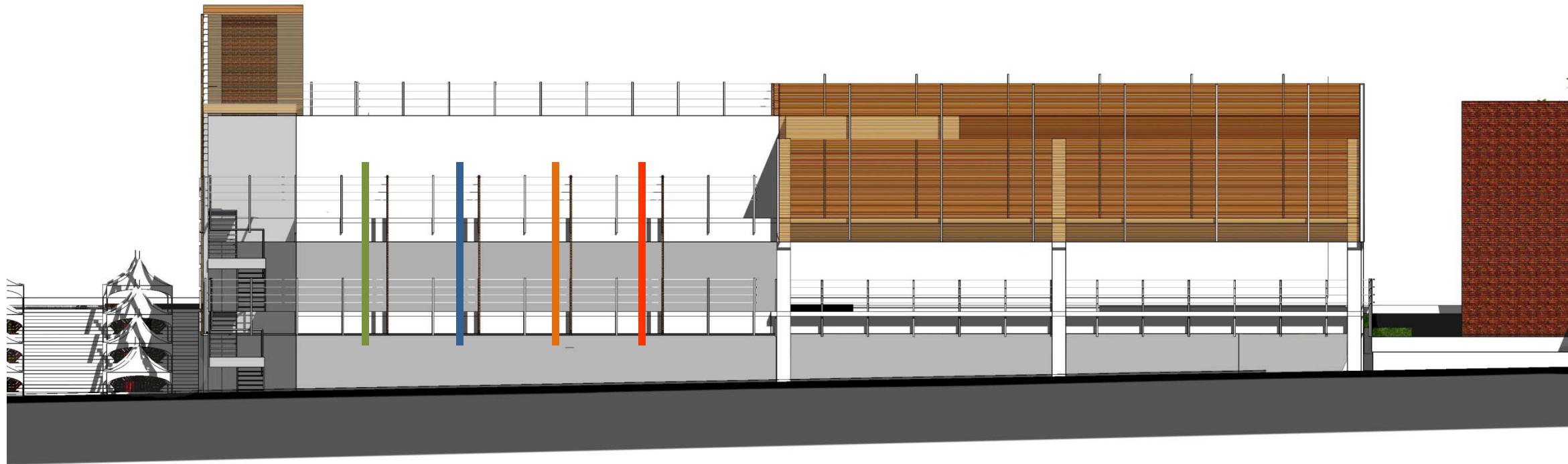


south elevation

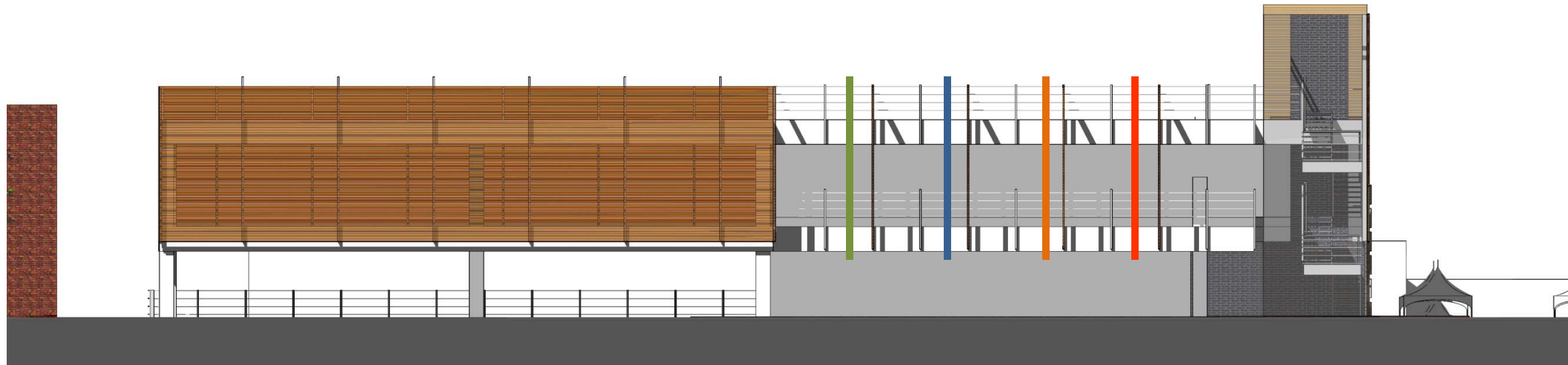


library elevations





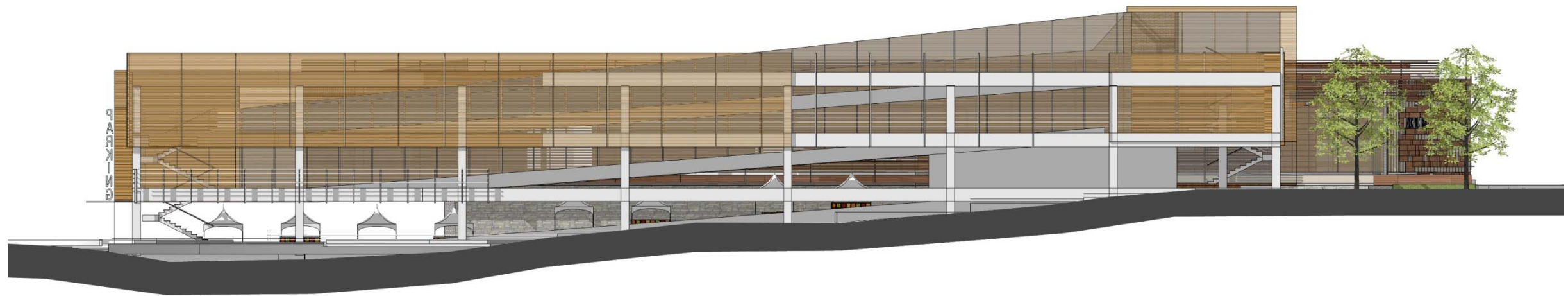
kentucky elevation : base parking level



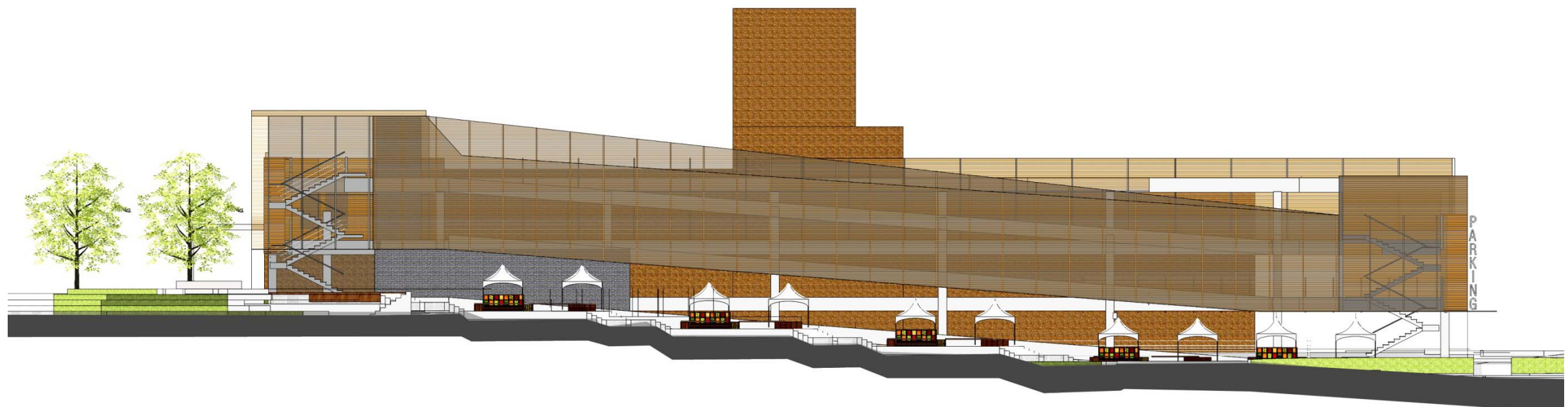
garage elevations

vermont elevation : base parking level





south elevation : base parking level



north elevation : base parking level

garage elevations

0 16' 32' 48'

fire station / senior center

parking structure + 1 level

plaza

library



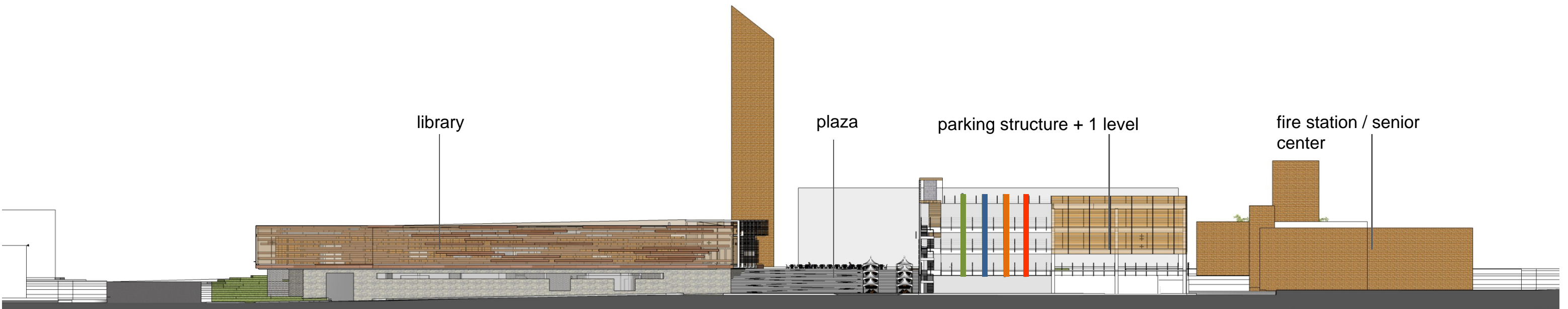
vermont elevation : extra parking level

library

plaza

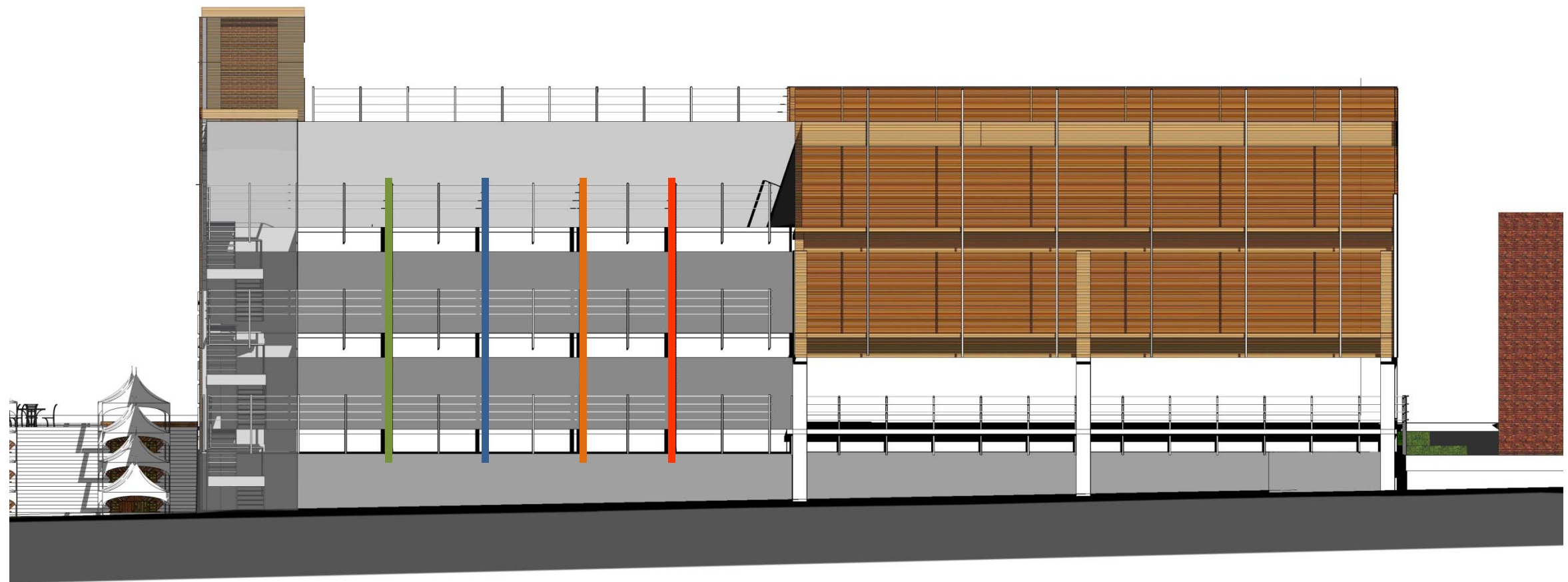
parking structure + 1 level

fire station / senior center

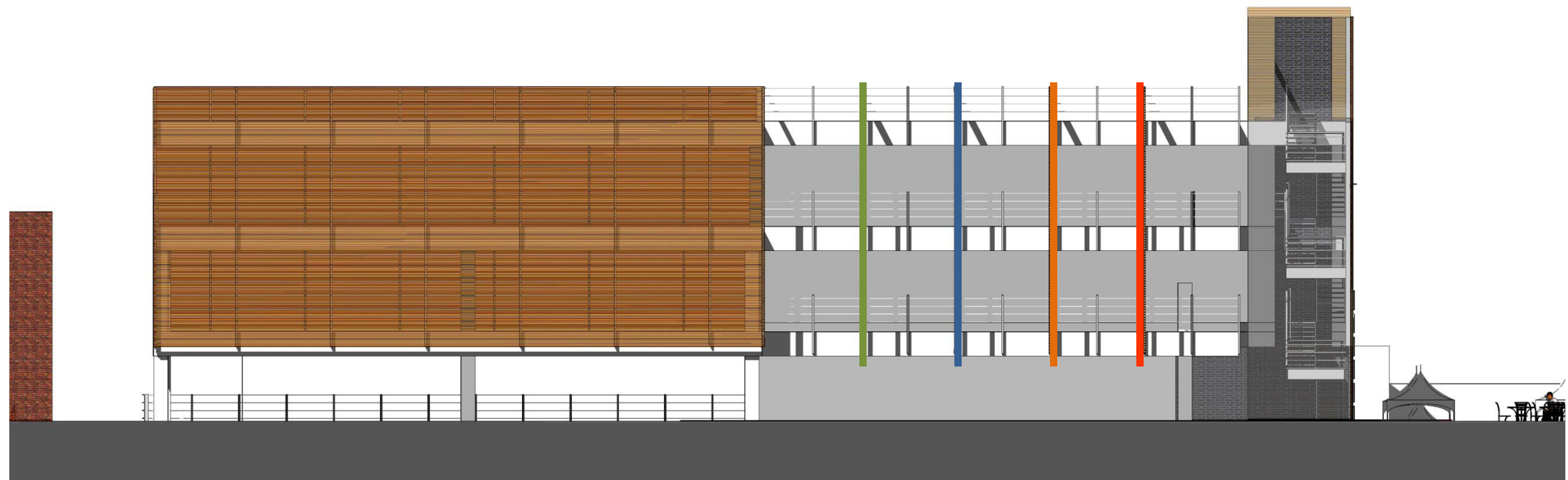


kentucky elevation : extra parking level

street elevations + 1 level



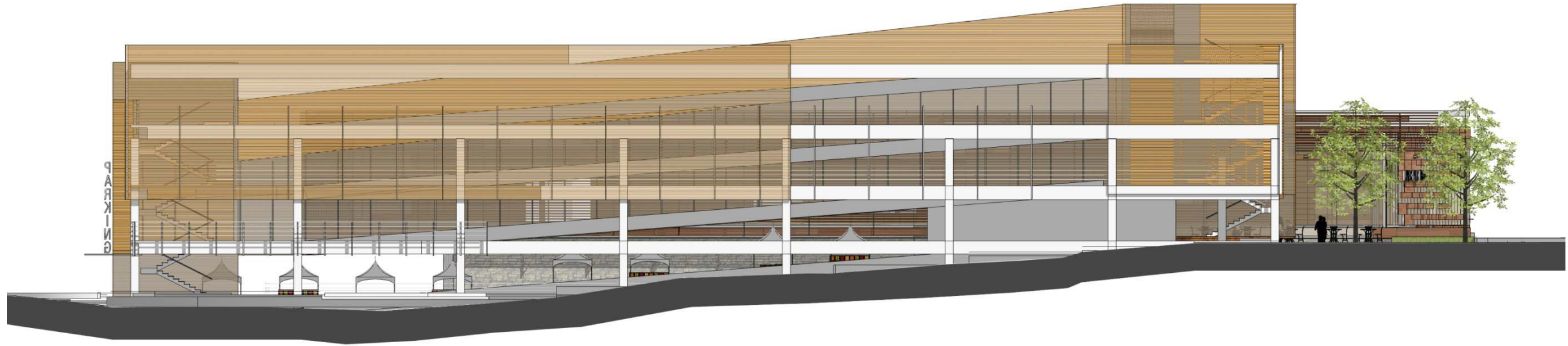
kentucky elevation : extra parking level



garage elevations + 1 level

vermont elevation : extra parking level





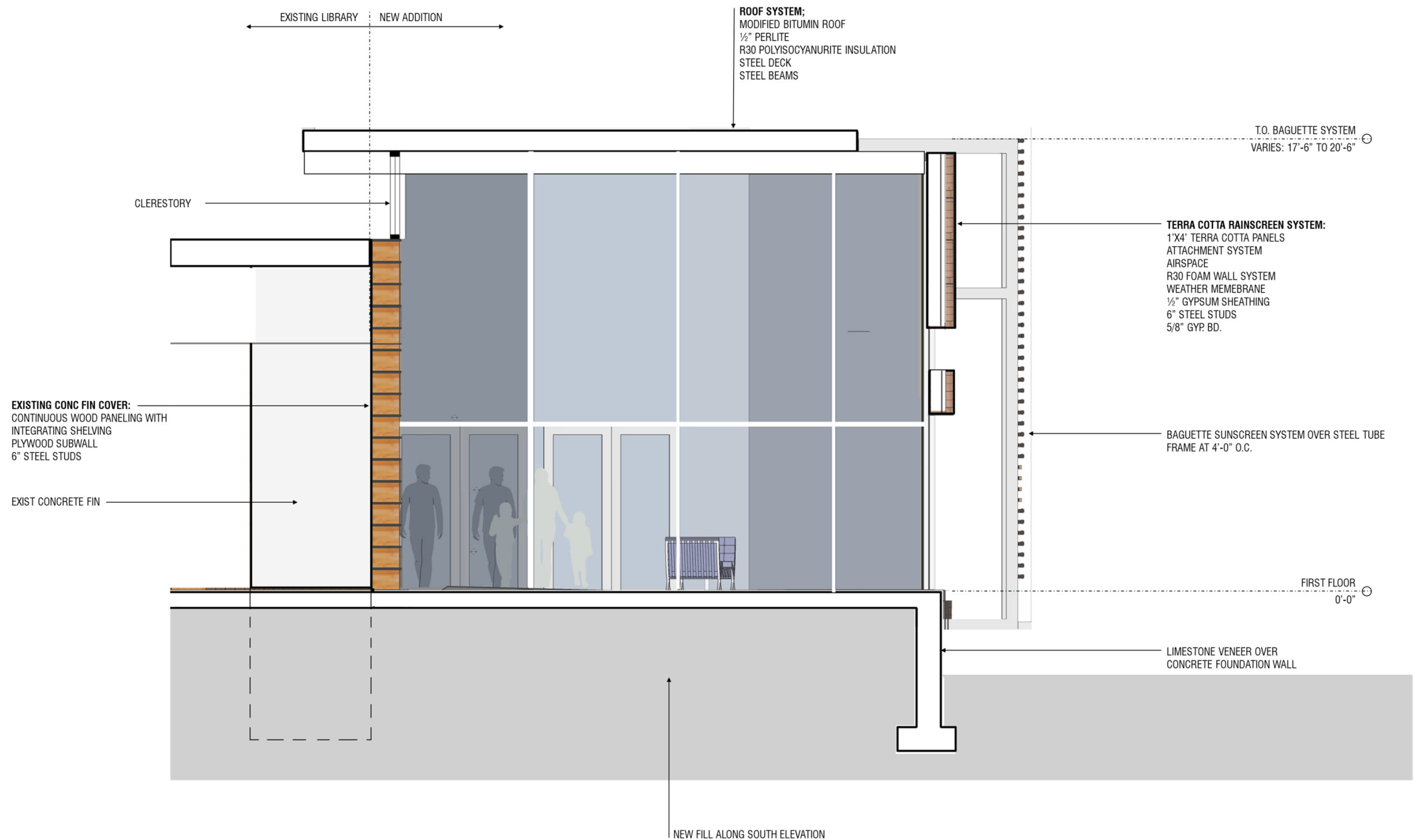
south elevation : extra parking level



garage elevations + 1 level

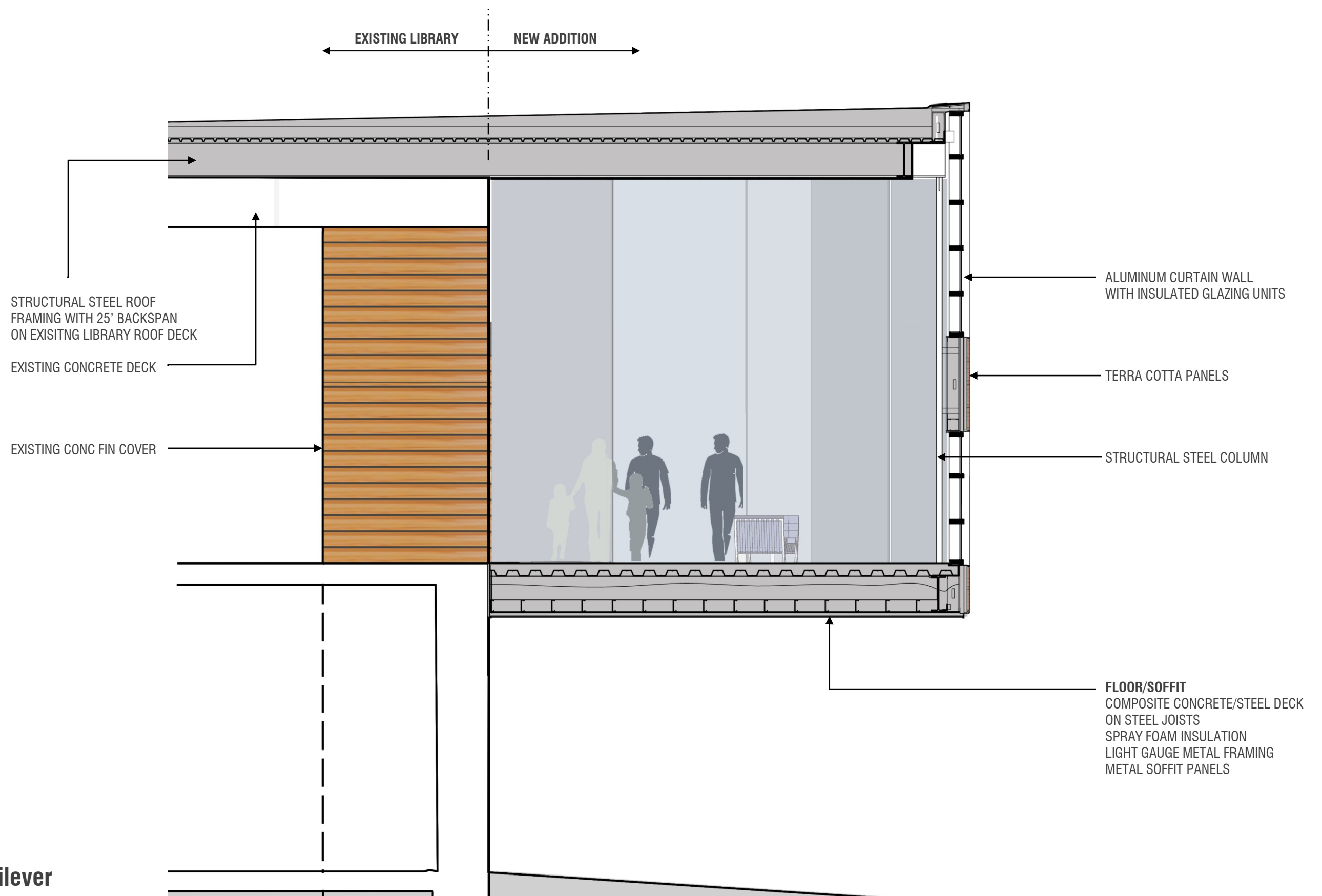
north elevation : extra parking level

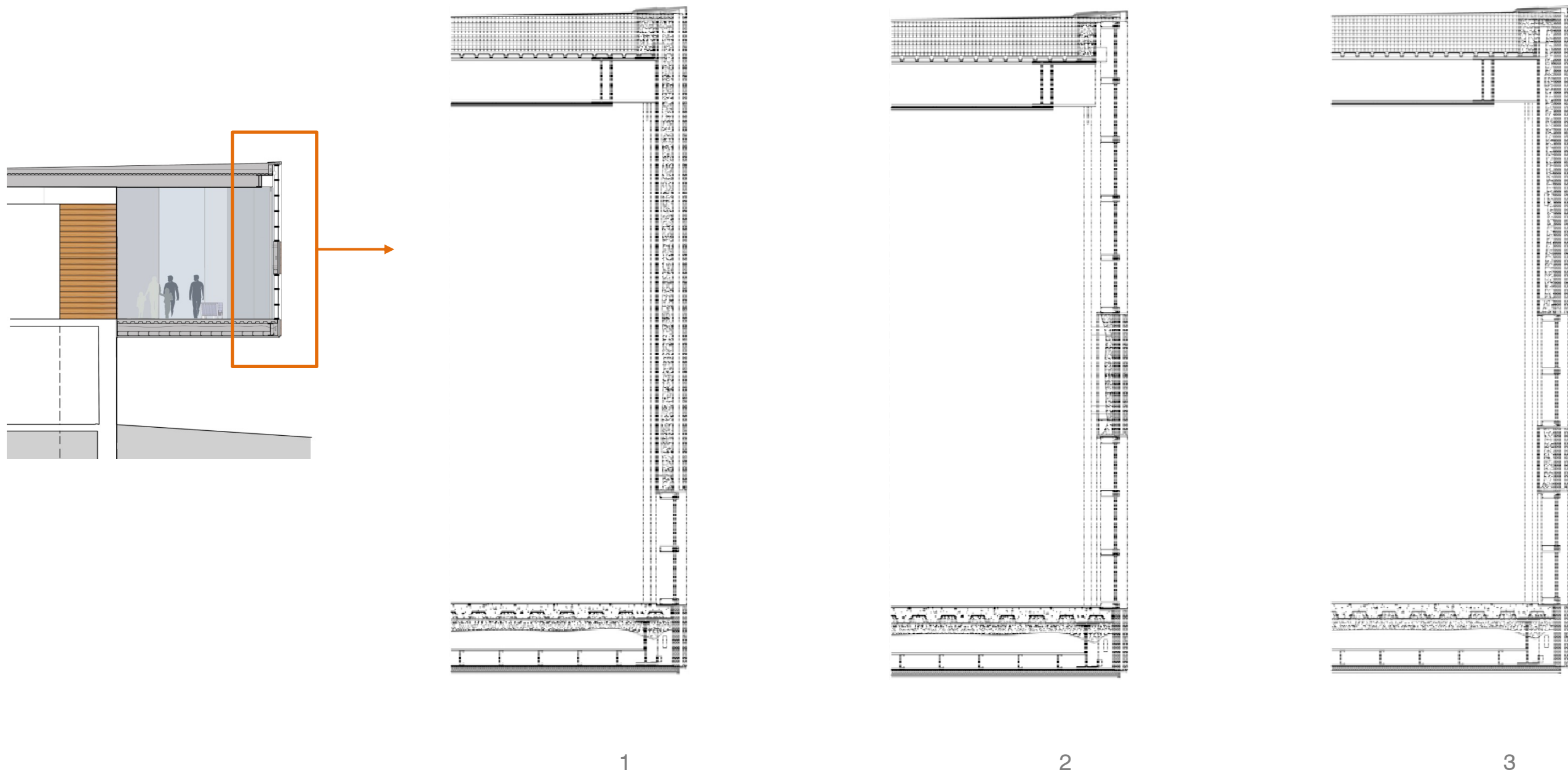
0 16' 32' 48'



section @ south elevation

section @ cantilever





envelope variation at addition

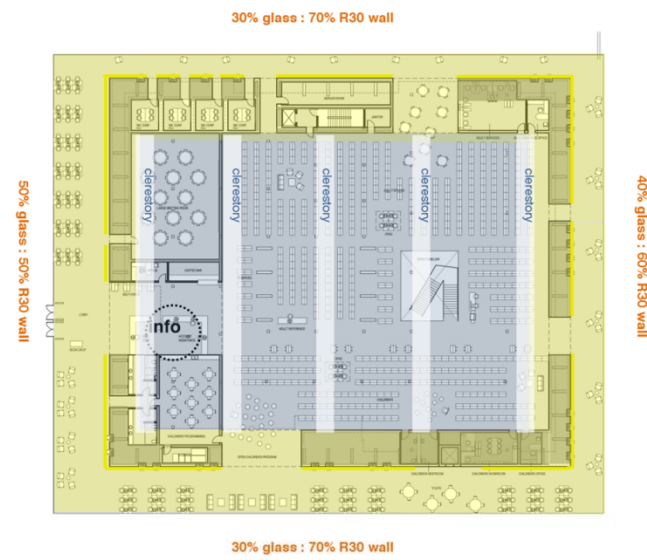


PLAN DIAGRAM

EXISTING CONC FIN COVER:
CONTINUOUS WOOD PANELING WITH
INTEGRATING SHELVING
PLYWOOD SUBWALL
6" STEEL STUDS



READING ROOM INTERIOR



DAYLIGHT HARVESTING DIAGRAM



READING ROOM INTERIOR

diagrams | interior images









northeast



southwest

GouldEvans
10.20.2011



garage southwest



garage northeast



garage northwest



garage southwest



garage southeast + 1 level



garage northeast + 1 level



garage northwest + 1 level



garage southwest + 1 level

lawrence public library schematic design 10.20.2011