

PETERBOROUGH TOWN LIBRARY

SCHEMATIC DESIGN SKETCHBOOK MAY 2017

AnnBehaArchitects

CONTENTS

Contents & Summary	2
History & Precedent	4
Existing Floor Plans	6
Site Analysis & Site Design	8
Program & Adjacency	10
Options & Concept	12
Floor Plans	14
Exterior & Interior Views	16

PROJECT GOALS

- Provide accessibility for all
- Incorporate green-building techniques and consider on-going energy costs
- Enhance flexibility for current and future use
- Incorporate local culture and art
- Provide collaboration spaces for all ages
- Provide a welcoming experience with natural light
- Enhance wayfinding and use of technology
- Provide greater connectivity to the waterfront
- Respect and complement the historic 1892 wing

PROJECT TEAM

Owner

Peterborough Town Library

Architect

Ann Beha Architects

Becker Structural Engineers, Structural Engineers

AHA, MEP Engineer

Richard Burck Associates, Landscape Architect

Hayner/Swanson, Civil Engineer

Harvey Construction, Construction Manager



Aerial view of Peterborough.

Founded in 1833, the Peterborough Town Library is the oldest tax-supported public library in the world. Reverend Abiel Abbot, Peterborough's Unitarian minister, proposed the creation of the Library in 1833 as a central collection of books that would be free and owned by the people of the town. Situated along the Contoocook River, the original building was constructed in 1892 and serves as an important historic example of the vernacular of the region.

ABA was selected by the Peterborough Town Library to guide the renovations and new construction of the modernized Library. The project focuses on restoring the historic structure back to the architect's original intent and proposing a new building of approximately 17,000 sqft to accommodate the Library's vision as an innovative community gathering place and information sharing center in the digital age. A main goal for the project is energy efficiency, which may be achieved by using green building technologies such as harnessing daylight in the reading spaces to reduce energy costs while utilizing porches to shade the building in the summer.



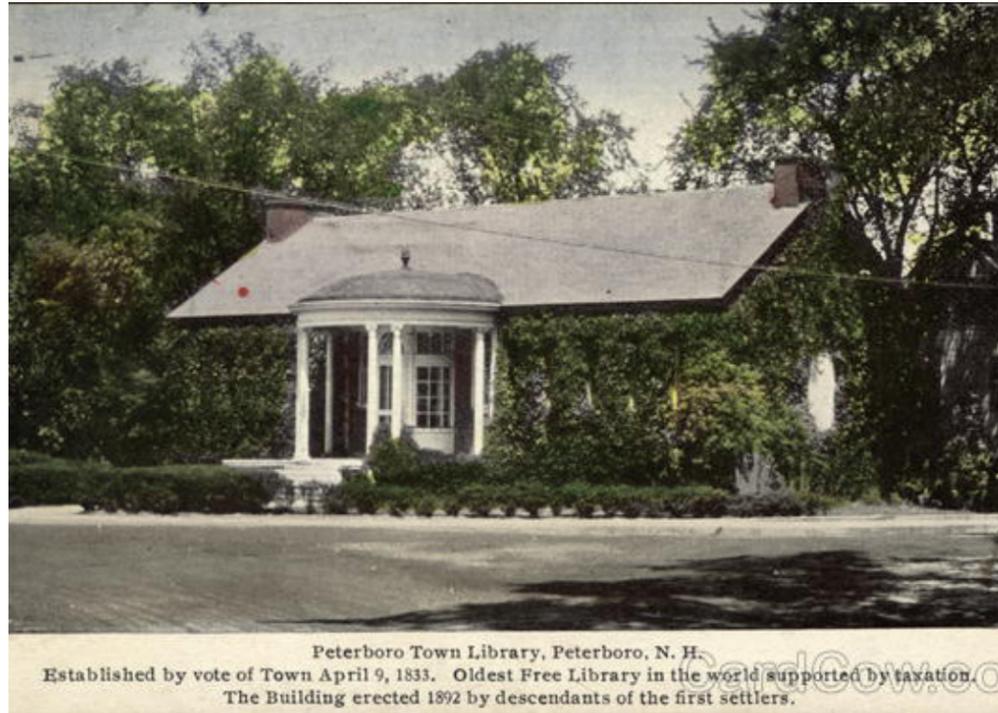
Existing Peterborough Town Library from the Contoocook River.



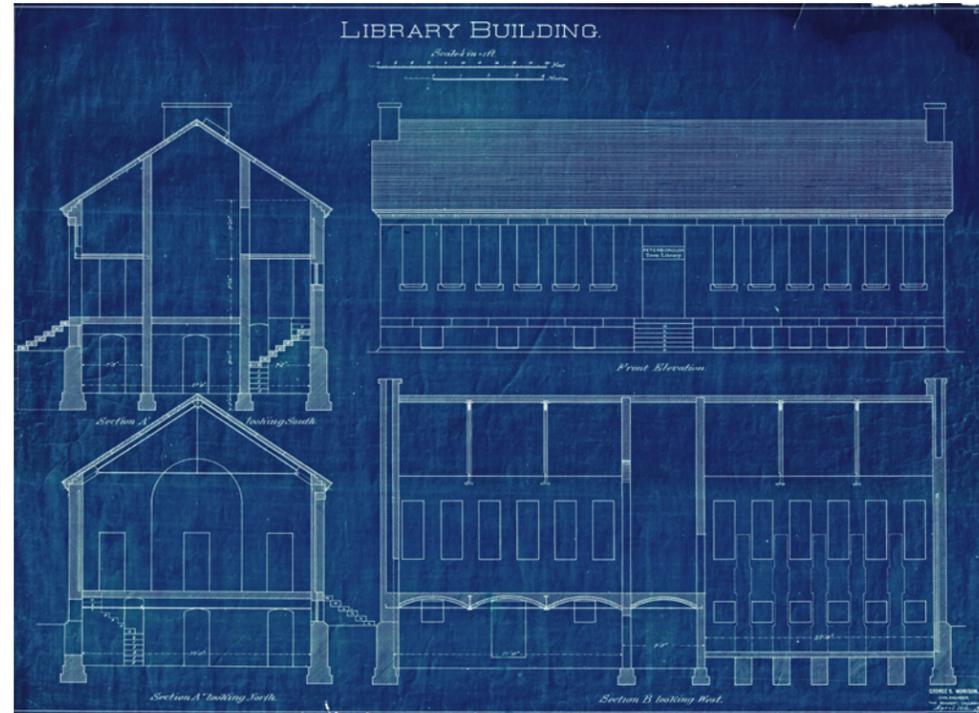
Existing Peterborough Town Library from Concord Street.

HISTORY

During the 1830's a revolutionary movement of educational reform was beginning, which valued free access to literature, film and the arts. Due to the success of the Peterborough Town Library, the New Hampshire State Legislature passed a law authorizing towns to raise money to establish and maintain their own libraries, making New Hampshire the first state to pass a law of this kind. By 1890, the Library could no longer accommodate their growing collection and number of patrons. A new Library was built and continues to operate as the town's library today. The building has been expanded twice since construction and its collection has grown from the original hundred items to over 43,000 books.



Historic postcard of Peterborough Town Library.

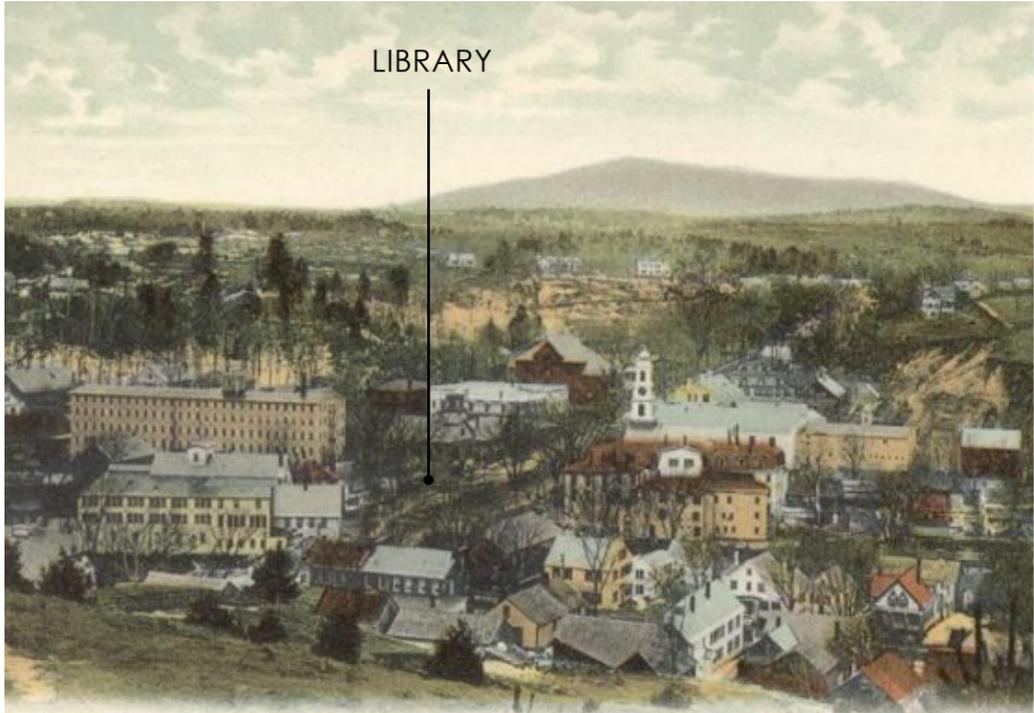


Blueprints of the original 1892 structure built by Peterborough engineer, George S. Morison.



Historic view of the original reading room.

The simple brick structure of the Peterborough Town Library echoes the design of 19th century mill buildings commonly found along rivers in New England towns. These historic structures are an important architectural precedent in the Monadnock region and the clear inspiration to the functional design of the original Library.



Historic postcard view of Peterborough.



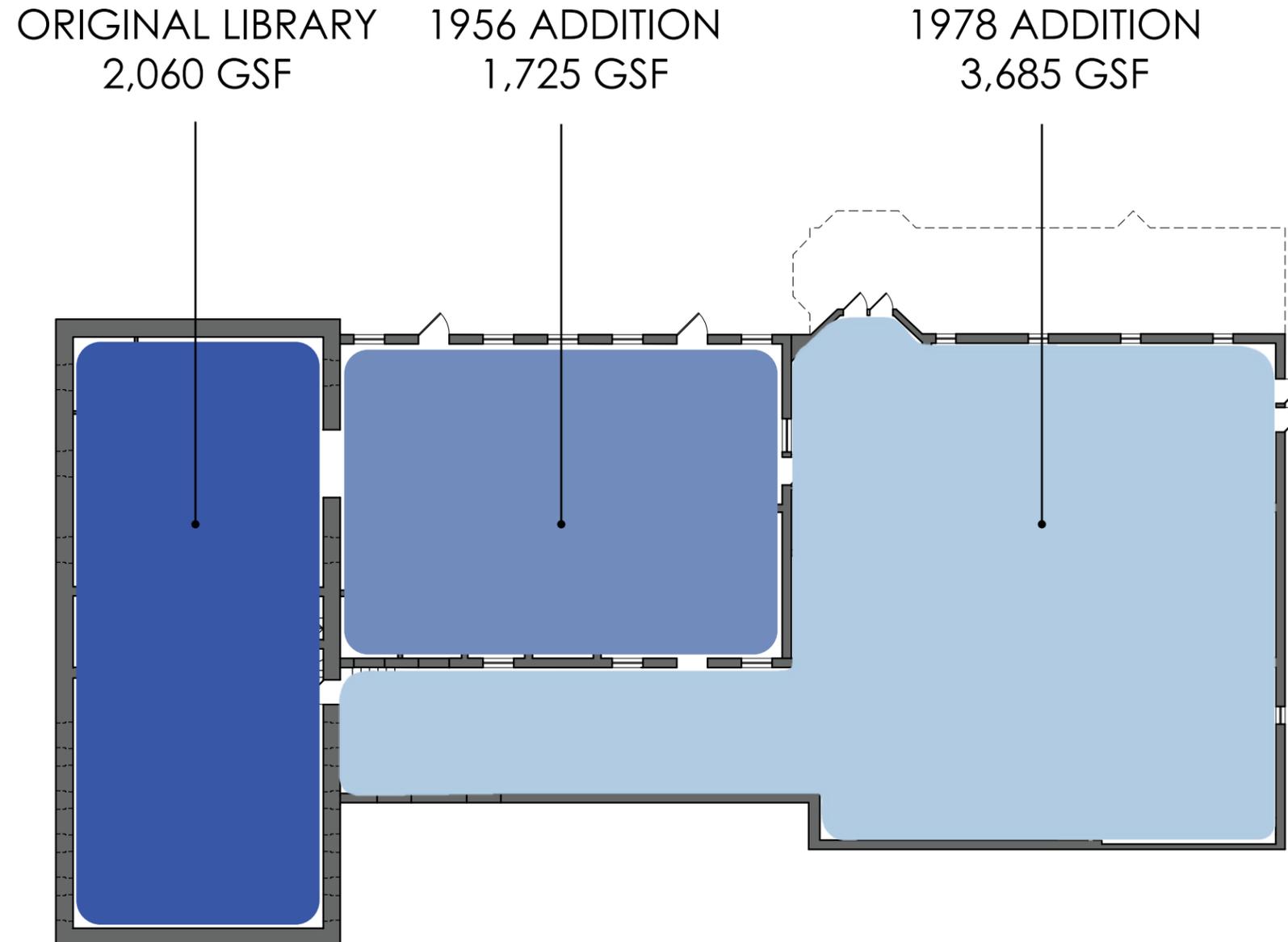
Historic saw mill overlooking the Neponset River in Dorchester, MA.



The Upper Mill at Harrisville, a 19th century example of New Hampshire brick mill buildings.

EXISTING LOWER FLOOR

The Library has had two workman-like additions to the north side of the original building. One of the goals of the new Library project would be to remove the 1956 and 1978 additions, making space for a new contemporary Library expansion.



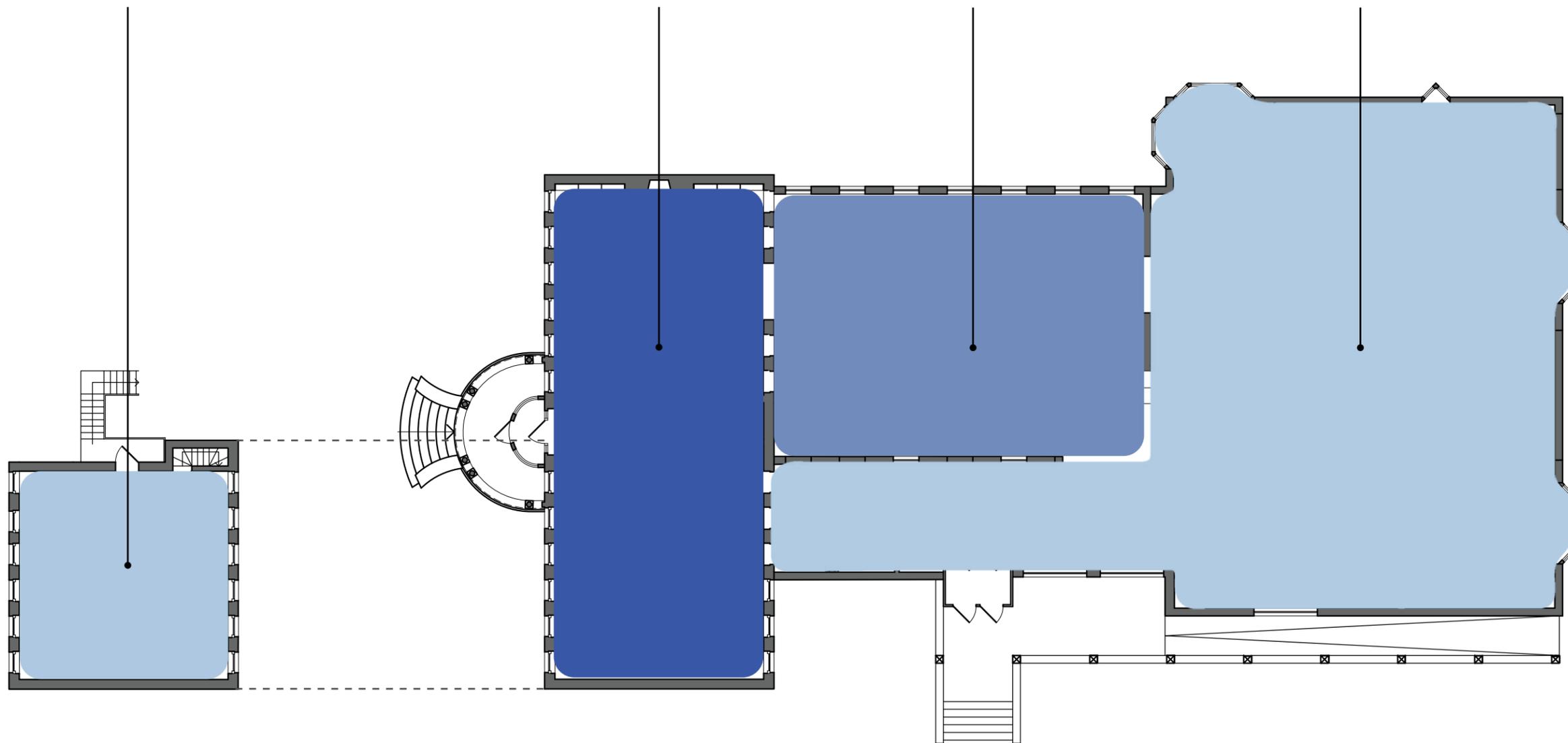
EXISTING LOWER FLOOR	7,470 GSF
EXISTING UPPER FLOOR	8,770 GSF
<hr/> TOTAL EXISTING BUILDING	<hr/> 16,240 GSF

MEZZANINE
730 GSF

ORIGINAL LIBRARY
1,980 GSF

1956 ADDITION
1,725 GSF

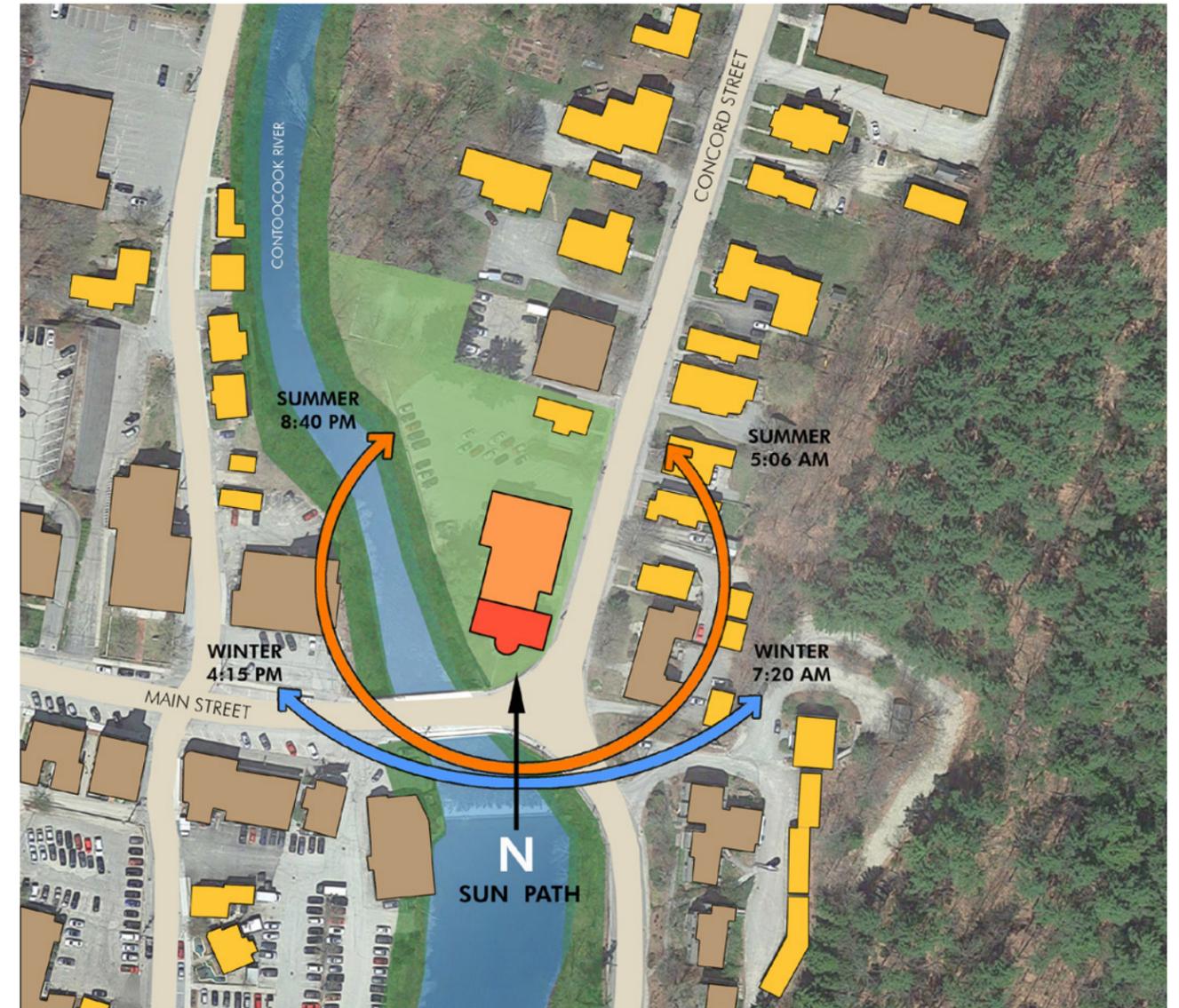
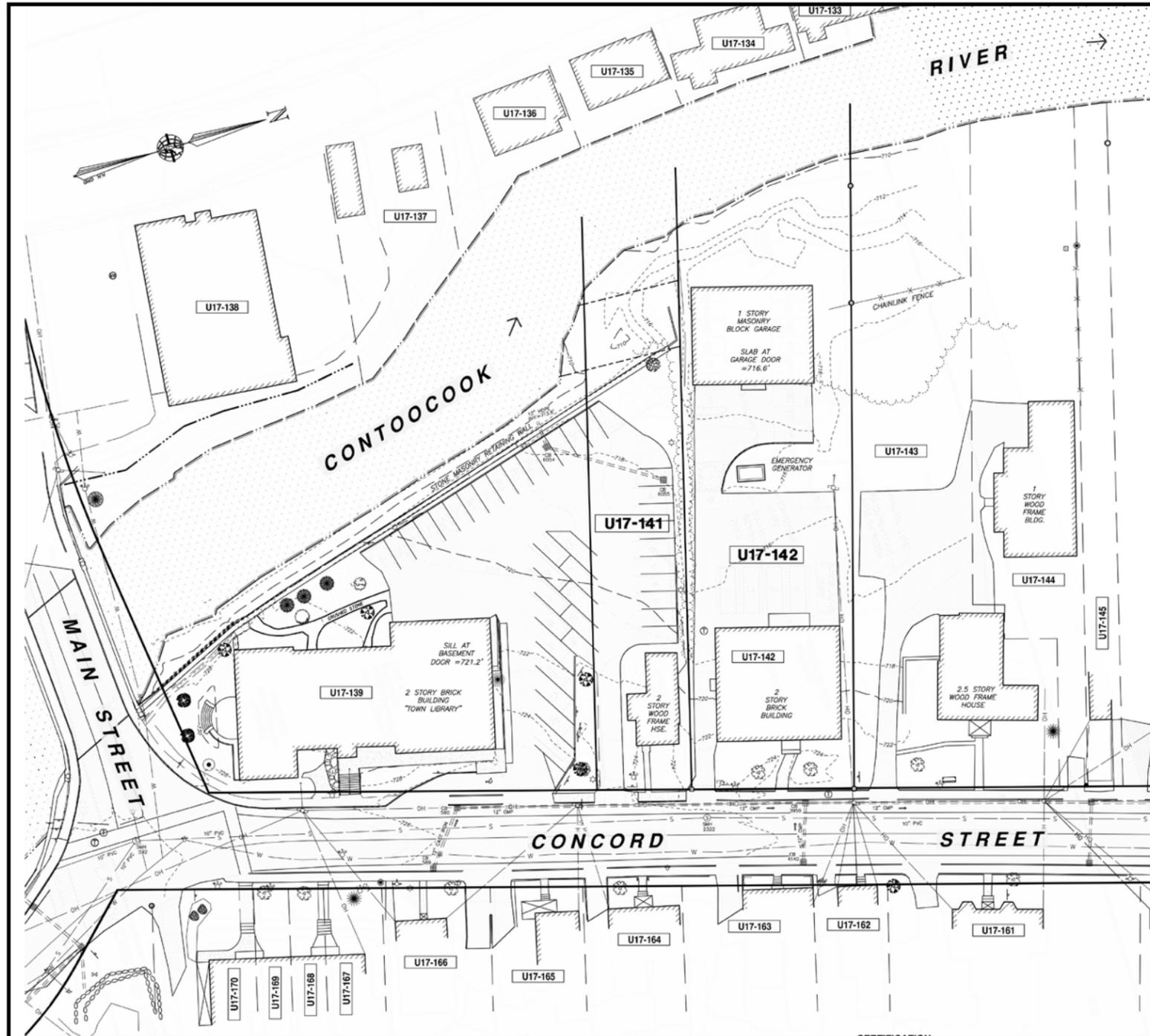
1978 ADDITION
4,335 GSF

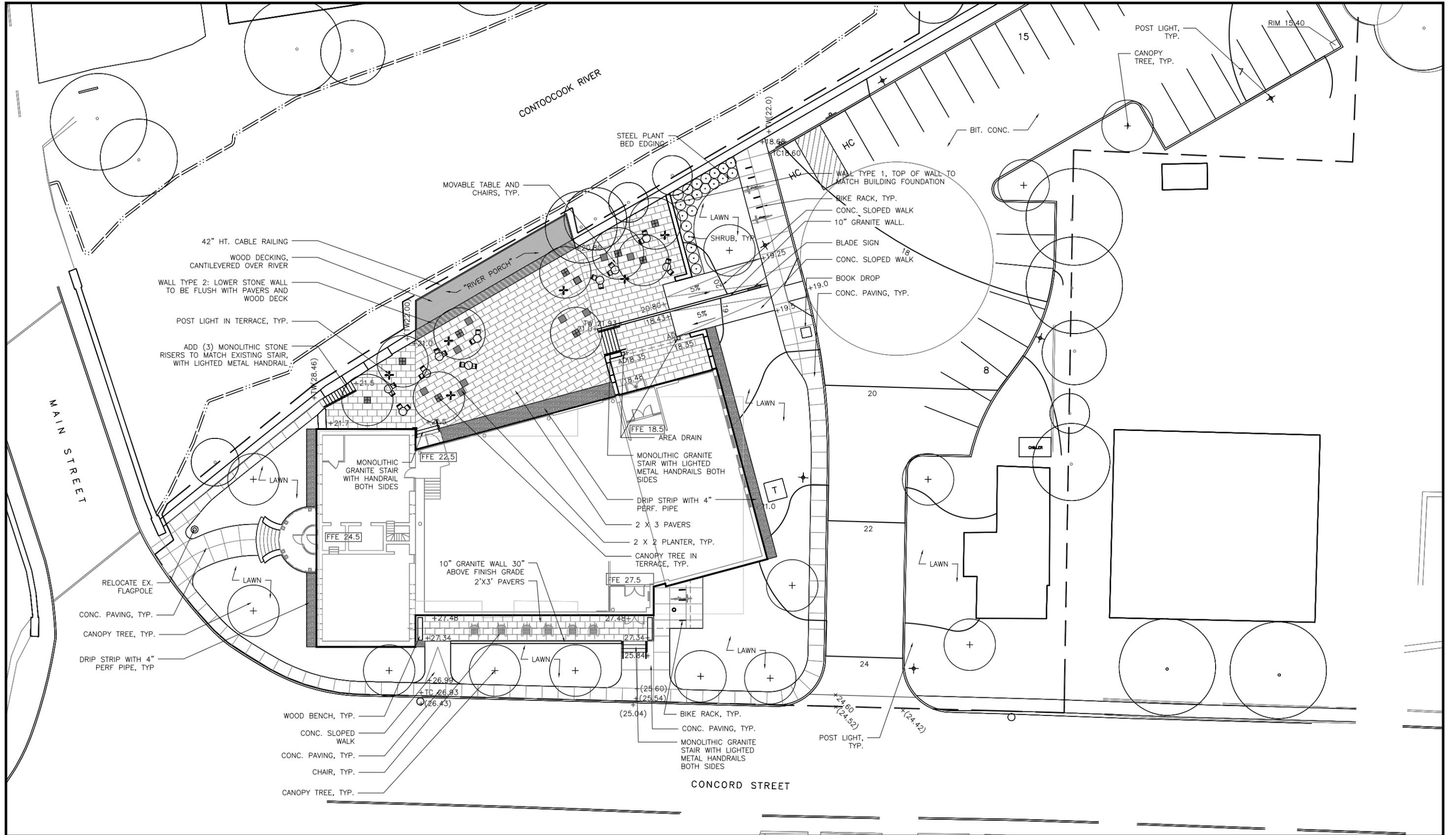


EXISTING LOWER FLOOR	7,470 GSF
EXISTING UPPER FLOOR	8,770 GSF
<hr/> TOTAL EXISTING BUILDING	<hr/> 16,240 GSF

SITE ANALYSIS

The wedge shaped site, bound by the intersection of Main Street and Concord Street, is nestled along the Contoocook River. As a result, the building has three public facades and multiple entrances. The site analysis addressed important concerns, such as sun orientation, parking and arrivals, waterfront connectivity and tie to downtown as a whole.





PROGRAM

Programming sets the goals and criteria of space use for the Library. A space program matrix was refined during the schematic design process to meet the Library's priorities and resources.

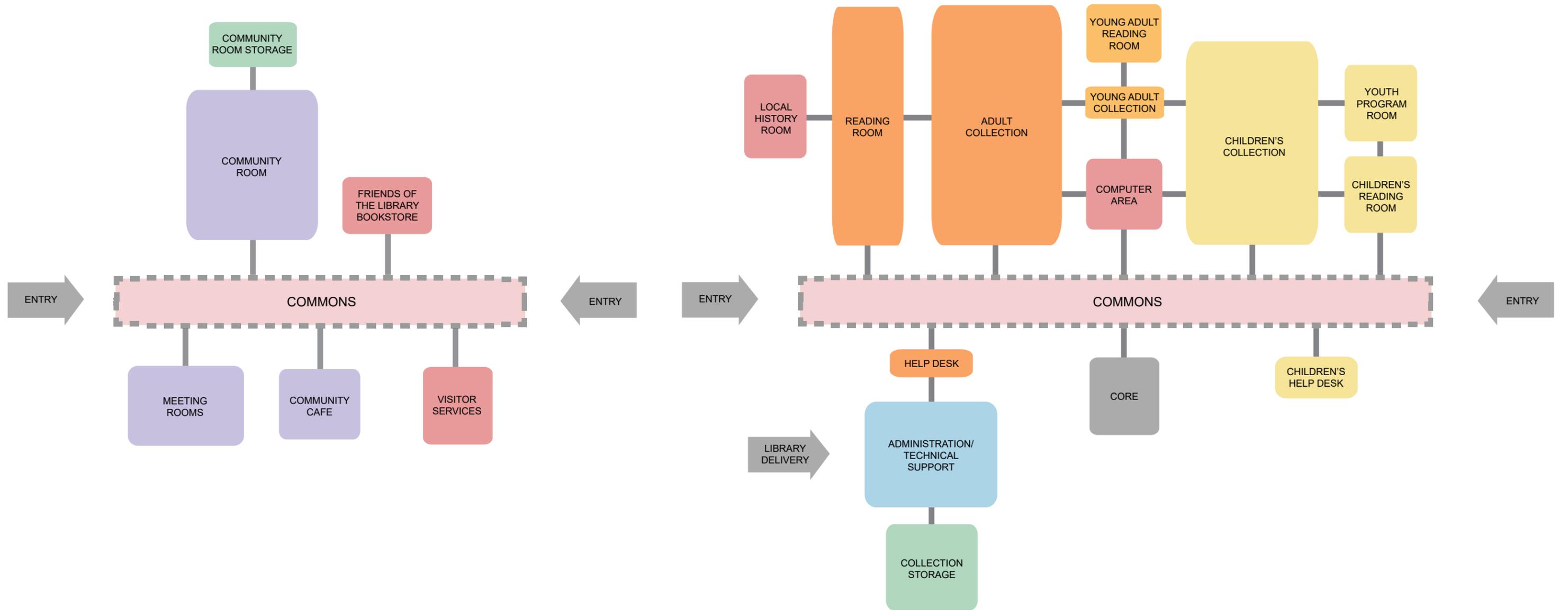
Peterborough Town Library aims to enhance access to their print collection of approximately 34,000 volumes and digital media by offering computer stations and a wide variety of seating types for quiet reading and group work. Community rooms of varied sizes offer flexibility and address the needs of all ages of users. Dedicated gallery space is designed to display local artwork and staff has centralized workspaces to fulfill the Library's everyday needs.

	11.21.16 Program	1.27.17 Program	1.30.17 Program
Collection & Reading Spaces			
Circulation Desk	2 occupants	2 occupants	2 occupants
Children's Help Desk	2 occupants	2 occupants	2 occupants
Adult Collection	26,000 volumes	20,855 volumes	20,855 volumes
Reading Room/Seating Area	40 seats	10 seats	10 seats
Quiet Reading Seating	N/A	12 seats	12 seats
Computer Area	6 stations	4 stations	4 stations
	copy/print area	copy/print area	
Young Adult Collection	1,520 volumes	1,000 volumes	1,000 volumes
	3 stations	3 stations	3 stations
	4 seats	4 seats	4 seats
Children's Collection	12,500 volumes	11,288 volumes	11,288 volumes
	2 stations	2 stations	2 stations
	17 seats	17 seats	17 seats
Youth Program Room	30 children	30 children	30 children
	front area	front area	front area
Local History Room	1,140 volumes	N/A	N/A
	display area	N/A	N/A
	4 seats	N/A	N/A
COLLECTION & READING SPACES SUBTOTAL			
Community Spaces			
Community Room	125 seats	100 seats	
	front area	front area	
	flexible space	flexible space	
Collaborative Social Space with Coffee Meeting Room	14 seats	12 seats	12 seats
Entrepreneur Co-Working Space	10 seats	10 seats	10 seats
Small Children's Meeting Room	5 seats	N/A	N/A
Small Adult Meeting Room	3 seats	N/A	N/A
Friend's of the Library Bookstore	3 seats	3 seats	N/A
Kitchenette	3,000 volumes	N/A	N/A
Community Information Center			
Art Installation & Display Area			
COMMUNITY SPACES SUBTOTAL			
STAFF AREAS			
Technical Services	2 occupants	2 occupants	2 occupants
	supply storage	supply storage	supply storage
Office - Director	1 occupant	1 occupant	1 occupant
Office - Assistant Director	2 occupants	2 occupants	2 occupants
Office - Children's Librarian	1 occupant	1 occupant	2 occupants
Office - Young Adult Librarian	1 occupant	1 occupant	N/A
Staff Lounge & Kitchen	4 occupants	4 occupants	4 occupants
STAFF AREAS TOTAL			
SERVICE AREAS			
Unisex Public Toilet (Upper Level)	N/A	1 occupant	1 occupant
Family Restroom in Children's Area	1 occupant	1 occupant	1 occupant
Men's Toilet (Upper Level)	2 occupants	N/A	N/A
Women's Toilet (Upper Level)	2 occupants	2 occupants	2 occupants
Men's Toilet (Lower Level)	2 occupants	2 occupants	2 occupants
Women's Toilet (Lower Level)	2 occupants	2 occupants	2 occupants
Staff Toilets	2 occupants	1 occupant	1 occupant
Collection Storage	5,000 volumes	5,000 volumes	6,140 volumes
Community Room Storage	125 seats	100 seats	N/A
Coat Room			
Stroller Storage	4 items	4 items	4 items
Children's Library Storage			
Custodial Closet			
Maintenance Storage			
Trash & Recycling Room			
Elevator			
SERVICE AREAS SUBTOTAL			
MECHANICAL AREAS			
Mechanical Room			
Electrical Room			
Server Room		MDF	
		IDF	
Elevator Machine Room			
MECHANICAL AREAS SUBTOTAL			

NET AREA	
Mechanical Space	
Circulation	
Walls/Structure/Envelope	
GROSS AREA	
Inefficiency of an existing structure	
ESTIMATED BUILDING AREA	
EXISTING BUILDING AREA - 16,240 GSF	

11.21.16 Area	1.27.17 Area	1.30.17 Area	Notes
240	240	240	
240	240	240	
2,000	1,604	1,604	1.27.17 - 2,411 linear feet required; consider compact shelving for 10,000 volumes
1,000	250	250	includes adult library and new books
-	300	300	
240	160	160	
60	60	60	
117	77	77	1.27.17 - 125 linear feet required; 5 shelves high
135	135	135	
100	100	100	
1,250	1,129	1,129	1.27.17 - 655 linear feet required
90	90	90	
425	425	425	
300	300	300	
50	50	50	pop-up tables, sink and cabinets
88	-	-	
30	-	-	
100	-	-	
6,465	5,160	5,160	
1,250	1,000	-	1.27.17 - no divider
100	100	-	
100	100	-	
350	300	300	new books area
300	300	300	
150	-	-	1.27.17 - layered in other areas of the building
90	-	-	
90	90	-	
300	-	-	1.27.17 - remain in Kyes-Sage
60	60	-	
			within entry
			45 linear feet dedicated wall space and one case for 3D art
2,790	1,950	600	
240	240	240	
30	30	30	
150	150	150	
150	150	150	
150	150	150	
100	100	-	1.31.17 - floating desk for Young Adult librarian
80	80	80	
900	900	800	
-	80	80	
80	80	80	
140	-	-	
140	140	140	
140	140	140	
140	140	140	
140	140	140	
100	60	60	
250	250	307	1.27.17 - includes local history collection
250	200	-	
16	16	16	
24	24	24	
-	150	100	
100	100	100	
80	80	80	
50	50	50	
240	240	240	two stories
1,750	1,750	1,557	
750	750	750	
150	150	150	
80	80	80	
20	20	20	
100	80	80	
1,100	1,080	1,080	

13,005	10,840	9,197
1,300	1,084	920
2,601	2,168	1,839
1,300	1,084	920
18,206	15,176	12,876
1,821	1,518	1,288
20,027	16,694	14,163

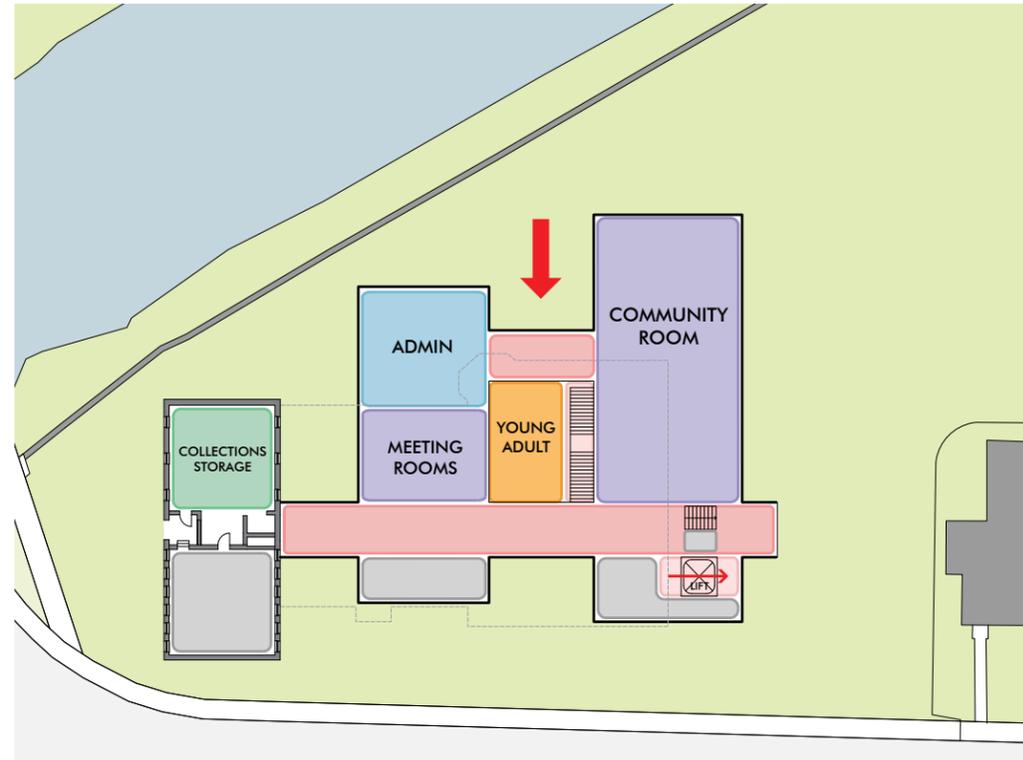


COMMUNITY ADJACENCY DIAGRAM

LIBRARY ADJACENCY DIAGRAM

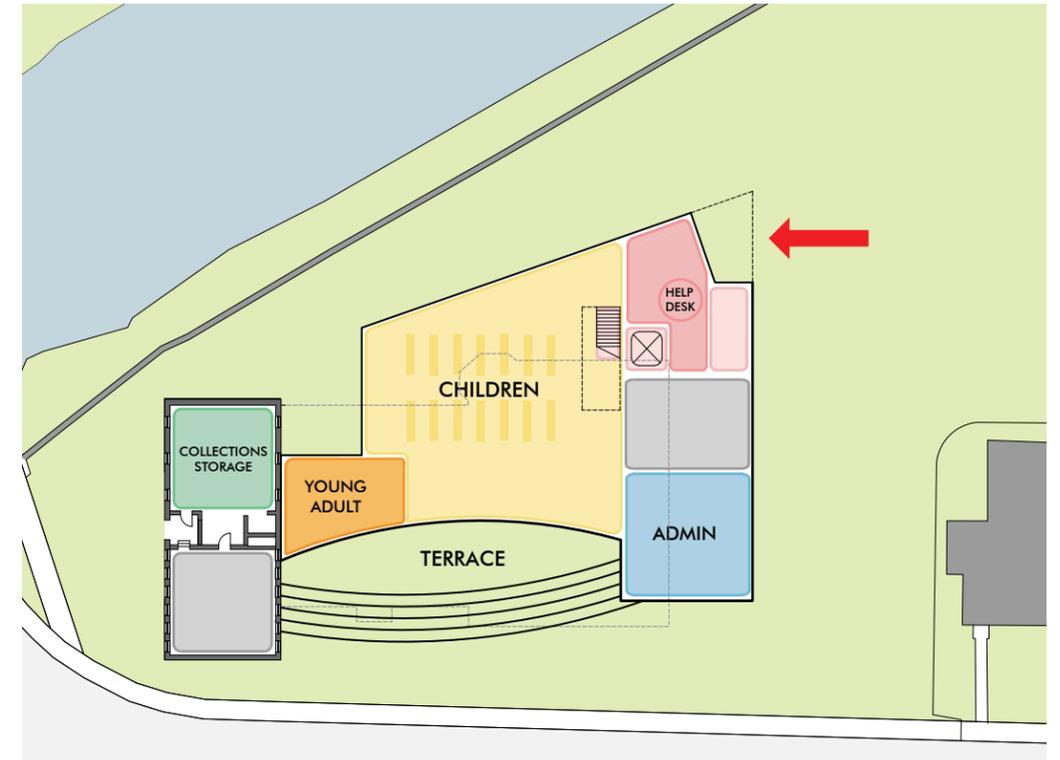
OPTIONS

During the design process ABA explored options for addressing the goals and keys issues of the Library. Each option offered a scenario for site use and connectivity, buildings and program distribution, including renovations and new construction. The options encouraged discussion, help set priorities, and offered pros and cons. The preferred option, entitled 'The Porch', proposed an open library space bookended by masonry structures – the original historic Library and a new community structure of similar scale. The new library space offers transparency and views to a new porch facing Concord Street and to a new river side terrace facing west.



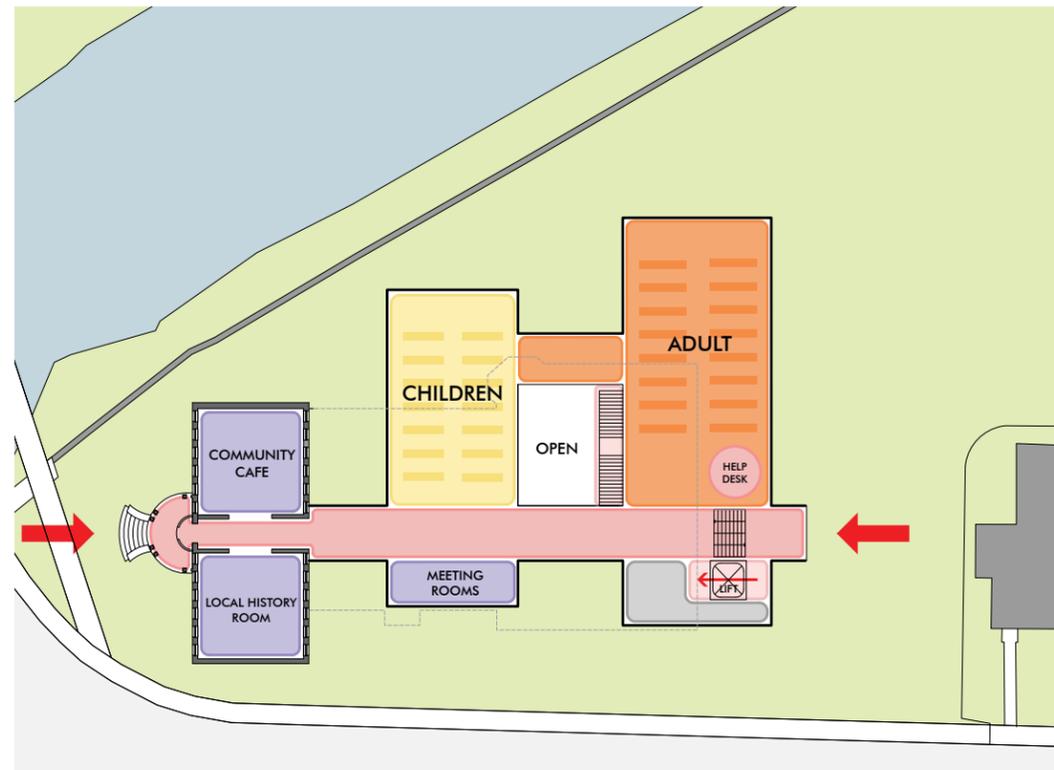
THE STREET

LOWER LEVEL



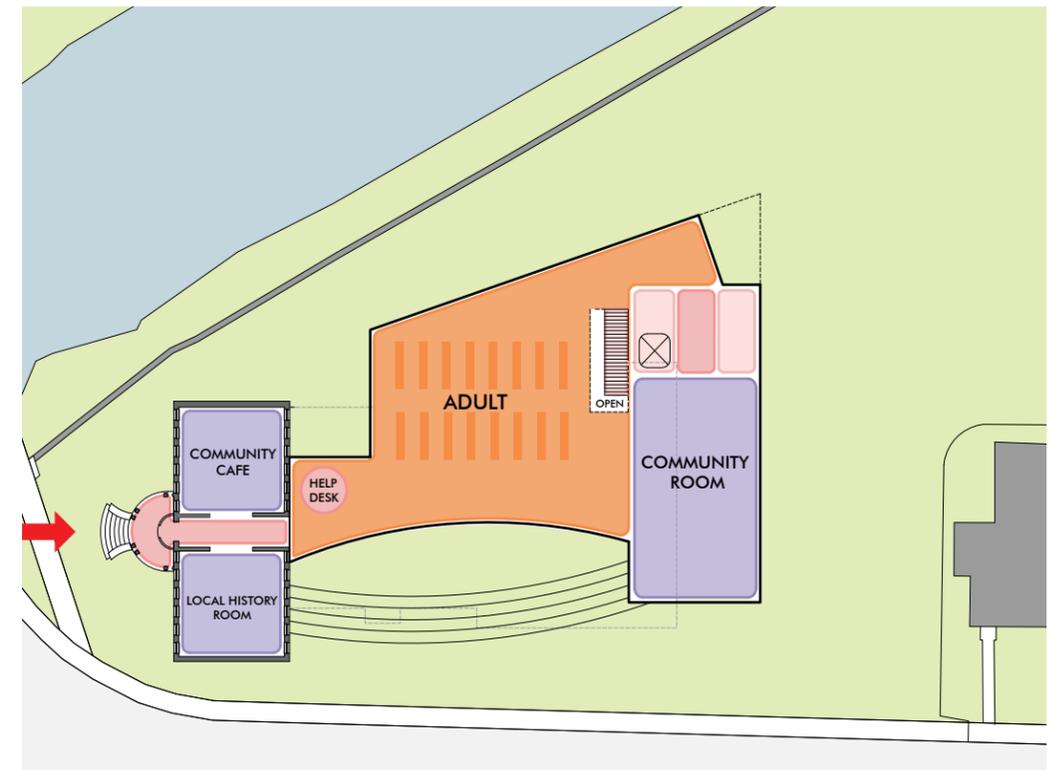
THE TERRACE

LOWER LEVEL



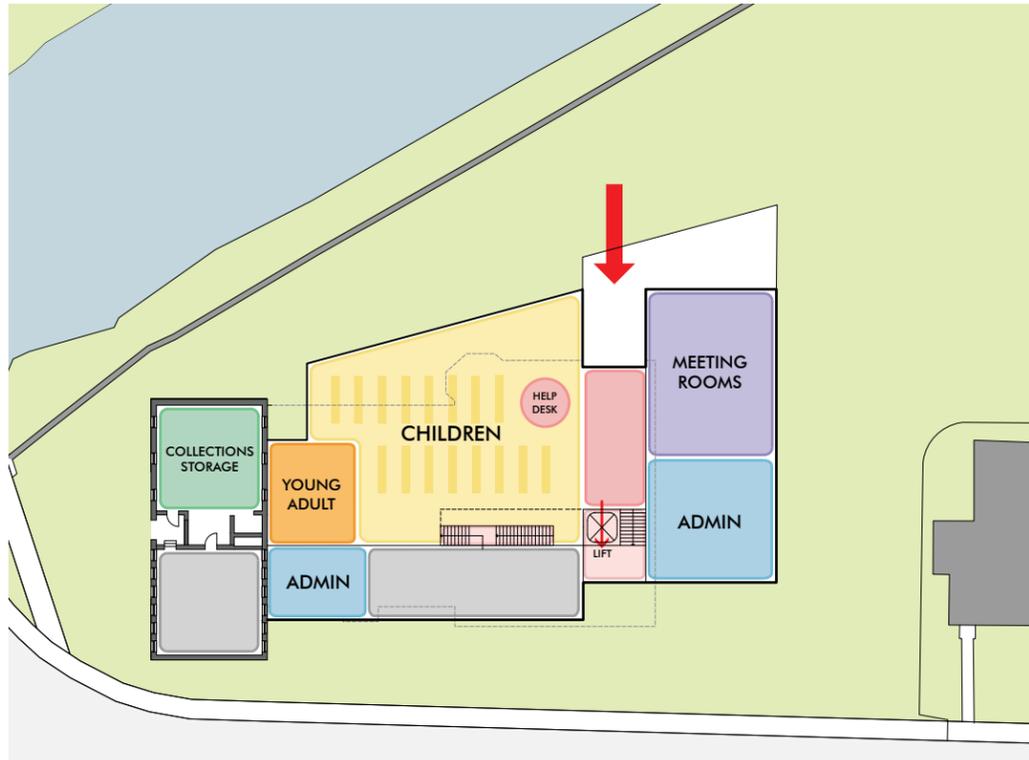
THE STREET

UPPER LEVEL



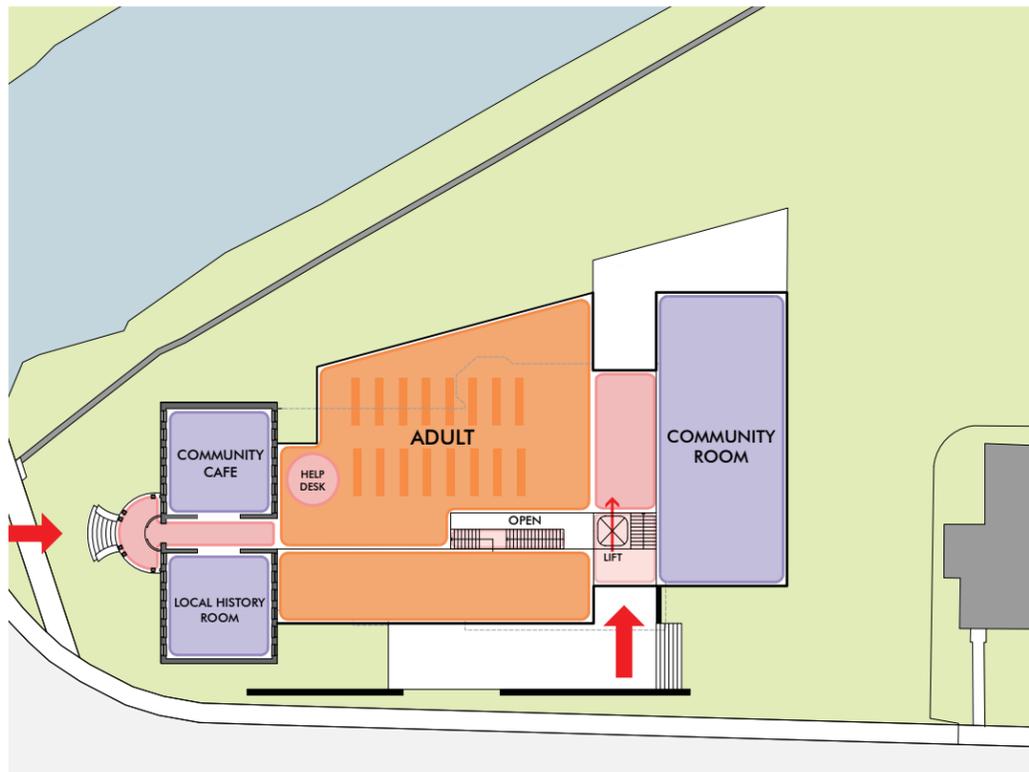
THE TERRACE

UPPER LEVEL



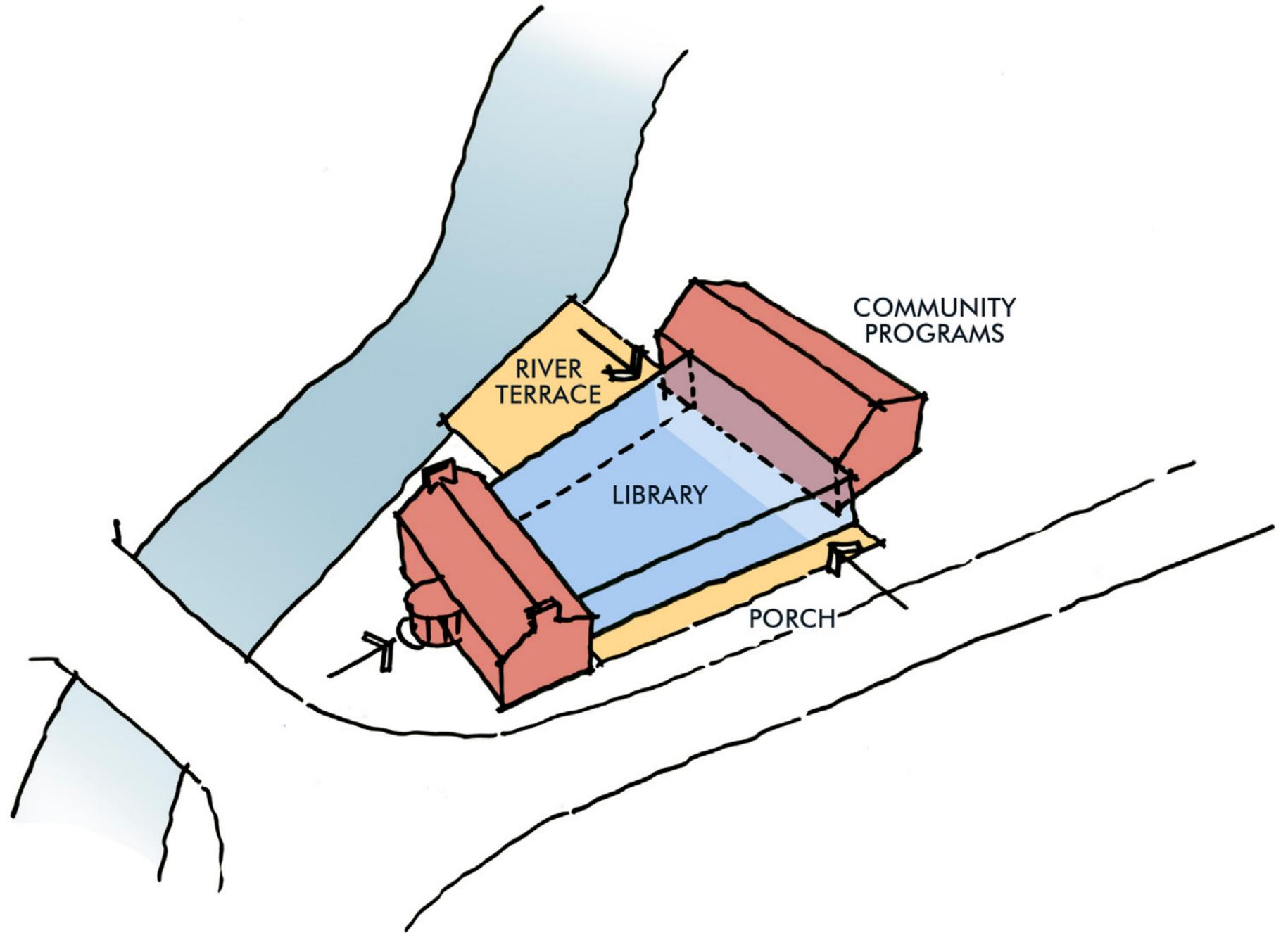
THE PORCH

LOWER LEVEL

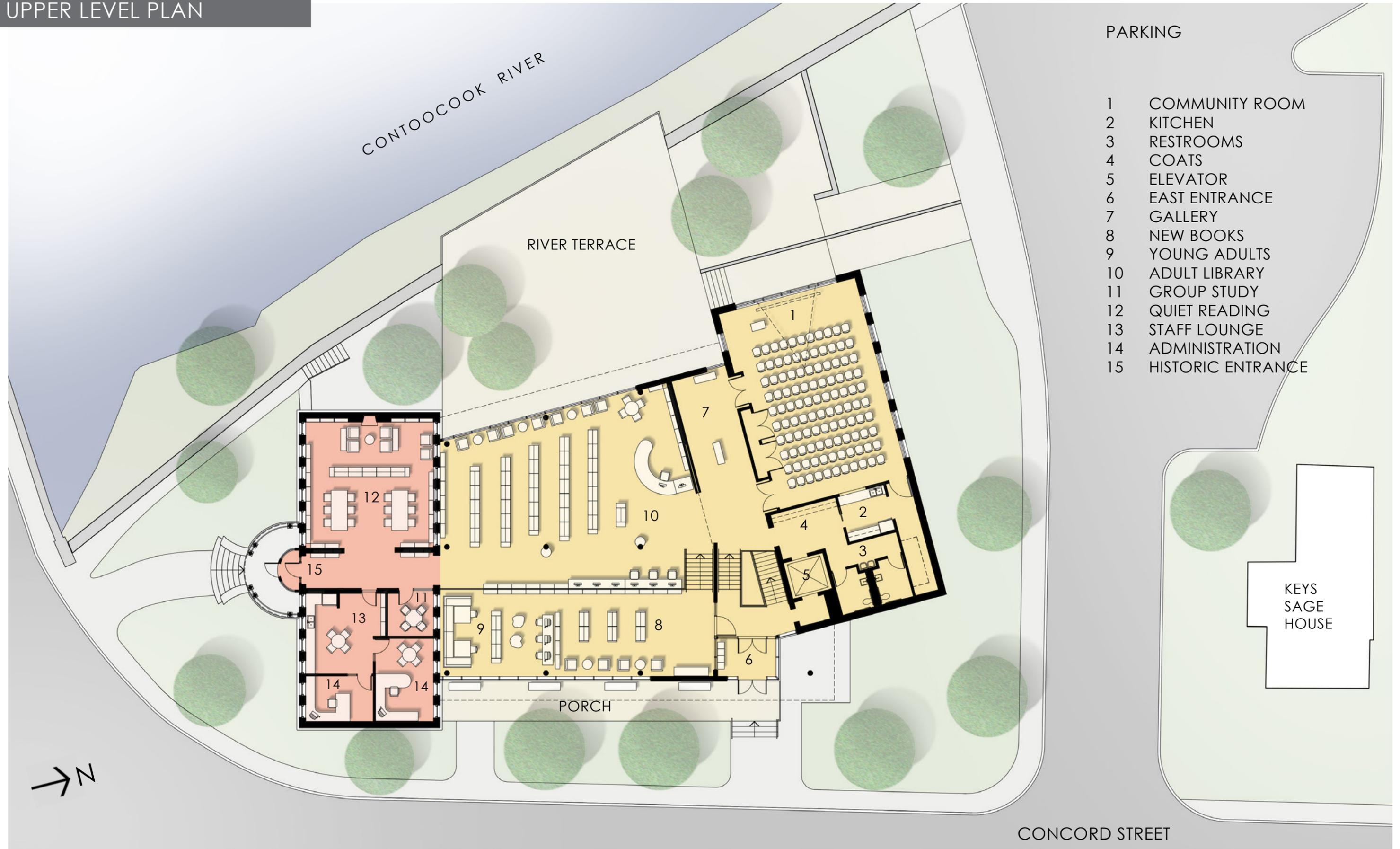


THE PORCH

UPPER LEVEL



UPPER LEVEL PLAN



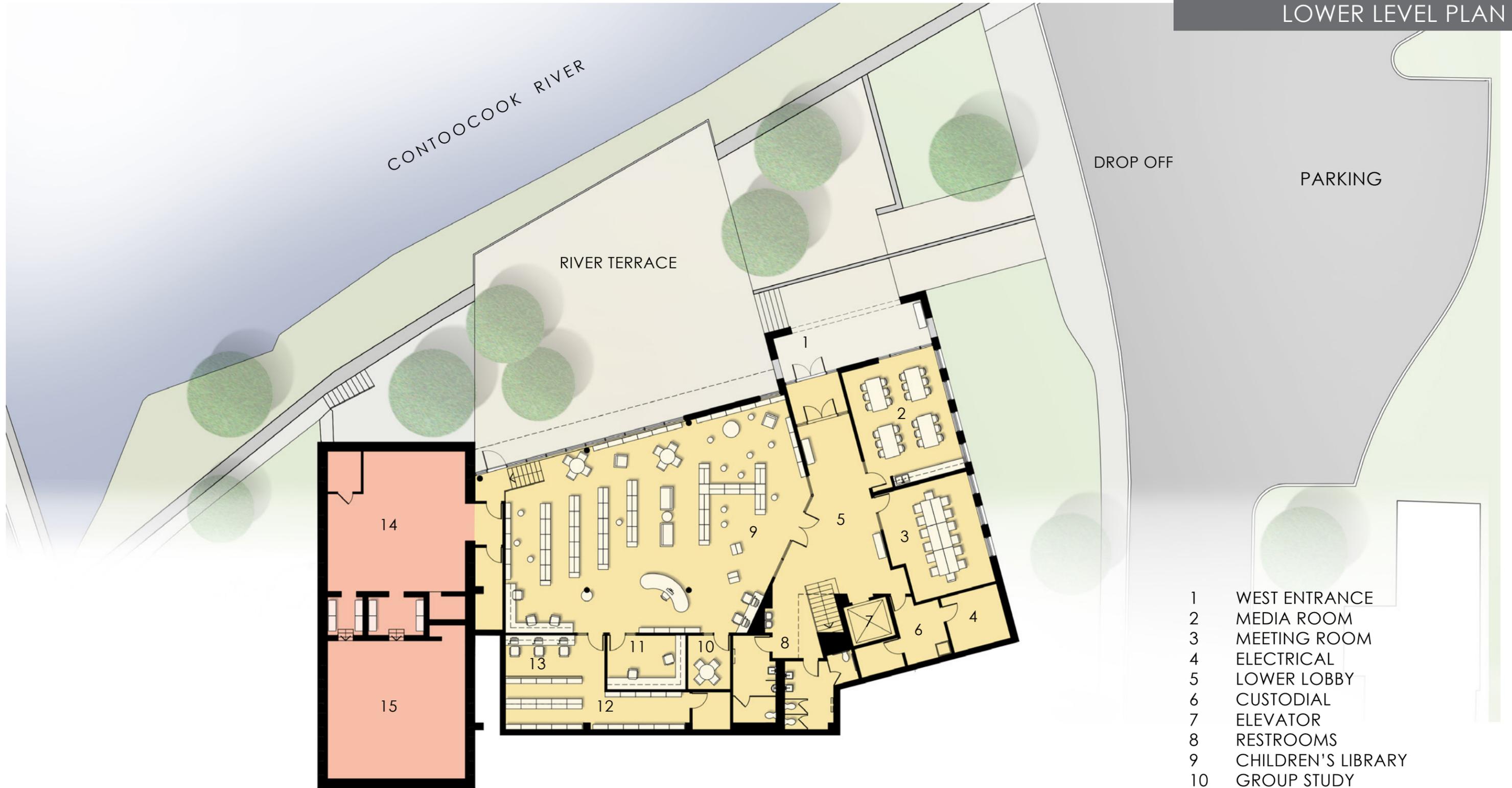
PARKING

- 1 COMMUNITY ROOM
- 2 KITCHEN
- 3 RESTROOMS
- 4 COATS
- 5 ELEVATOR
- 6 EAST ENTRANCE
- 7 GALLERY
- 8 NEW BOOKS
- 9 YOUNG ADULTS
- 10 ADULT LIBRARY
- 11 GROUP STUDY
- 12 QUIET READING
- 13 STAFF LOUNGE
- 14 ADMINISTRATION
- 15 HISTORIC ENTRANCE

KEYS
SAGE
HOUSE

CONCORD STREET

LOWER LEVEL PLAN



- 1 WEST ENTRANCE
- 2 MEDIA ROOM
- 3 MEETING ROOM
- 4 ELECTRICAL
- 5 LOWER LOBBY
- 6 CUSTODIAL
- 7 ELEVATOR
- 8 RESTROOMS
- 9 CHILDREN'S LIBRARY
- 10 GROUP STUDY
- 11 CHILDREN'S LIBRARIAN
- 12 COLLECTION STORAGE
- 13 TECHNICAL SERVICES
- 14 MECHANICAL
- 15 STORAGE



EAST ENTRANCE



View to the new Concord Street Entrance.



View south to the River Terrace Entrance.



View of the New Books Reading Porch.



View of the renovated original reading room, a place for quiet study.

COMMUNITY ROOM



View of the Community Room.



View of the Children's Library.