





### SMOTHERS ELEMENTARY SCHOOL MODERNIZATION



U.S. COMMISSION OF FINE ARTS

CONCEPT SUBMISSION

SEPTEMBER 3, 2020





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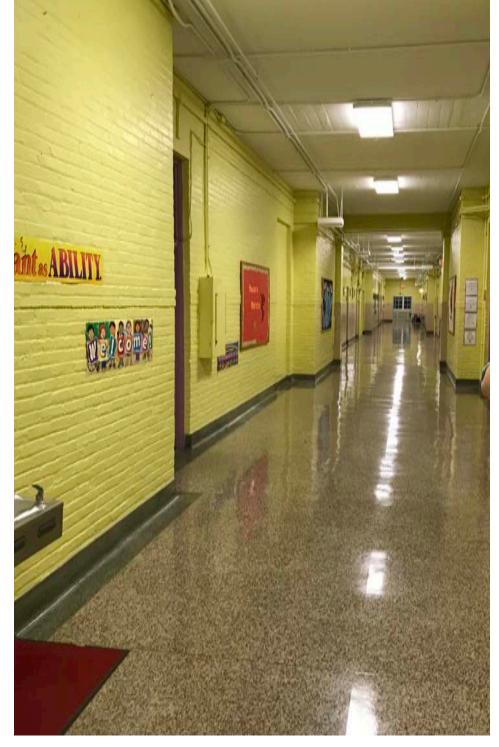
04 CONCEPT DESIGN













### **EXECUTIVE SUMMARY**



The modernization of Smothers Elementary School is a part of the overall plan to modernize schools throughout the District of Columbia. Modernizations provide students with effective learning environments. This project will seek to expand Smothers' design capacity to 318 students in order to meet the projected enrollment demands of the school age population within Smothers' attendance zone.

Under the direction of the District's Department of General Services (DGS) and with the guidance of DCPS, the DLR Group design team has further developed the concept scheme selected by DGS and DCPS for this Schematic Design submission.

#### **Design Considerations**

The design for the Smothers Elementary School modernization will seek to provide a state-of-the-art educational facility while balancing issues related to the site and the project budget. Some considerations to be addressed in the design include:

- Improved alignment of program and facility: An effective design will facilitate a deep alignment between educational philosophy, curriculum, exploratory activities, and space design to form a coherent whole. The project will meet DCPS educational specifications requirements while serving the specific needs of the Smothers community. The BOLD process has been initiated to foster a creative dialogue between the school's leadership team and the design team. This process will continue into the next design phases.
- Thoughtful Interpretation of the Historic Preservation: In order to be

successful, the design must provide an optimal learning environment while preserving much of the existing historic building fabric.

- · Commitment to Net-Zero Readiness, sustainability, and student wellbeing: The challenge of achieving a net-zero or net-zero ready school for a historic renovation project is a key element of the concept analysis.
- Maximizing a challenging site: The design approach must make the most of the existing site, recognizing and mitigating for its small size, limited options for vehicular access, and slopes. Maximizing play space while meeting DCPS standards for service vehicles and for parking is essential to the success of the project.
- A beacon of hope: The Smothers design must reach to the school's vision, which states (in part) that "Smothers Elementary will be a beacon of hope for families East of the River. Our students will leave with a strong foundation that will enable them to have choices and opportunities in life."





### **Project Design Team**

**Architect: DLR Group** 

Sarah Woodhead, AIA, NCARB (Principal-in-Charge)

Erika Lehman, AIA, NCARB (Project Manager)

Edgar Moreno, RA, LEED-AP (Project Architect)

Jason Lembke, AIA (Design Leader)

Taryn Kinney, AIA, LEED-AP (Education Leader)

Marilyn Denison, Ed.D (Education Planner)

Emily Oldham (Project Designer)

Kwame Bailey (Community Engagement Liason)

**MEP Engineers:** CMTA

Structural Engineers: SK&A

Civil Engineers: Bowman Consulting Group

Landscape Architect: CGLA

Traffic Engineers: Gorove Slade

**Historical Resources:** EHT Traceries

**Environmental:** ECS Capitol Services



### **Acknowledgements & Participants**

This Smothers ES Design was conducted for D.C. Public Schools (DCPS) by DLR Group architects. This new elementary school modernization and expansion was performed under the direction of the D.C. Department of General Services, Capital Construction Services. Through a series of engagement meetings, input has helped establish the priorities of the Smothers ES community while the site and building design options for the new school were developed. The proposed plans presented herein were developed based on coordination with DCPS and members of the school staff and community.

The design team would like to thank all participants for their essential role in developing the project.

### **Concept Phase Participants**

Smothers ES School Improvement Team (SIT)

Smothers ES Campus Leadership Team

District of Columbia Public Schools

District of Columbia Department of General Services







BUILDING PROGRAM

### **Educational Specifications Expansion**

DCPS has developed standard Educational Specifications for elementary schools, sized appropriately for the projected design capacity. We have reviewed these during the concept phase with DCPS and DGS, to ensure an understanding of degrees of flexibility in interpretation. Following is the Ed Spec summary provided by DCPS/DGS, highlighting deviations of the existing building against the proposed program.

Major Spaces	Quantity
PS – 1 <sup>st</sup> Grade Classrooms	8
2 <sup>nd</sup> – 5 <sup>th</sup> Grade Classrooms	8
Self – Contained Classrooms	3
Art	1
Music	1
Specials	1
Media Center	
PE	
Dining	

### **Plan-to-Program Tables**

The following program tables provide a comparison between the current floor plan spaces and Ed Spec program requirements.



### **Smothers Elementary School Plan-to-Program Table**

Core Academic Areas	Area	Ed SPEC Area	Area Difference	% Area Diff.	Level	Notes
Pre-S/Pre-K	1,005	1,025	-20	-2%	Level 01	
Pre-S/Pre-K	946	1,025	-79	-8%	Level 01	
Pre-S/Pre-K	956	1,025	-69		Level 01	
Pre-S/Pre-K	1,009	1,025	-16		Level 01	
Kindergarten/Grade 1 Classroom	1,133	1,025	108		Level 02	Space larger than programed due to irregular shape of the building on the NW end of the addition.
Kindergarten/Grade 1 Classroom	1,025	1,025	0	Λ%	Level 02	building on the NVV end of the addition.
Kindergarten/Grade 1 Classroom	962	1,025	-63		Level 02	
Kindergarten/Grade 1 Classroom	992	1,025	-33		Level 02	
Pre-S/Pre-K/Kindergarten/ Grade 1 Storage	Not Placed	100	-100			Two Pre-K rooms on the First Floor share a storage room because of the limited space in the existing building and the need for a new Heat Pump room
Pre-S/Pre-K/Kindergarten/ Grade 1 Shared Storage	95	100	-5	-5%	Level 01	The carrier and the arrivation and the carrier
Pre-S/Pre-K/Kindergarten/ Grade 1 Storage	Not Placed	100	-100			Two Pre-K rooms on the First Floor share a storage room because of the limited space in the existing building and the need for a new Heat Pump room
Pre-S/Pre-K/Kindergarten/ Grade 1 Storage	92	100	-8		Level 01	
Pre-S/Pre-K/Kindergarten/ Grade 1 Storage	101	100	1		Level 02	
Pre-S/Pre-K/Kindergarten/ Grade 1 Storage	101	100	1	1%	Level 02	
Pre-S/Pre-K/Kindergarten/ Grade 1 Storage	139	100	39		Level 02	Space larger than programed due to location of existing structural walls.
Pre-S/Pre-K/Kindergarten/ Grade 1 Storage	110	100	10	10%	Level 02	Space larger than programed due to location of existing structural walls.
Pre-S/Pre-K/Kindergarten/Grade 1 Restroom	59	60	-1	-2%	Level 01	
Pre-S/Pre-K/Kindergarten/Grade 1 Restroom	60	60	0		Level 01	
Pre-S/Pre-K/Kindergarten/Grade 1 Restroom	58	60	-2		Level 01	
Pre-S/Pre-K/Kindergarten/Grade 1 Restroom	60	60	0		Level 01	
Pre-S/Pre-K/Kindergarten/Grade 1 Restroom	60	60	0		Level 02	
Pre-S/Pre-K/Kindergarten/Grade 1 Restroom	60	60	0		Level 02	
Pre-S/Pre-K/Kindergarten/Grade 1 Restroom	80	60	20		Level 02	Space larger than programed due to location of existing structural walls.
Pre-S/Pre-K/Kindergarten/Grade 1 Restroom	70	60	10	17%	Level 02	Space larger than programed due to location of existing structural walls
Outdoor Storage Early Childhood	Not Placed		-	-	Not Placed	To be included in Site Plan.
Grades 2-5 Classroom	993	900	93		Level 03	Space larger than programed due to location of existing structural walls
Grades 2-5 Classroom	907	900	7	1%	Level 03	
Grades 2-5 Classroom	900	900	0	0%	Level 03	
Grades 2-5 Classroom	900	900	0	0%	Level 03	
Grades 2-5 Classroom	880	900	-20	-2%	Level 03	
Grades 2-5 Classroom	848	900	-52	-6%	Level 03	
Grades 2-5 Classroom	880	900	-20	-2%	Level 03	
Grades 2-5 Classroom	903		3		Level 03	
Specials Lab	1,005	1,000	5		Level 02	
Discovery Commons Area	604	-	-		Level 01	
Discovery Commons Area	236	-	-		Level 02	
Discovery Commons Area	56	-	-		Level 01	
Discovery Commons Area	55		-	-	Level 01	
Discovery Commons Area	125	-	-	-	Level 02	
Discovery Commons Area	117	-	-	-	Level 03	
Discovery Commons Area	381	-	-	-	Level 02	
Discovery Commons Area	371	-	-	-	Level 03	
Discovery Commons Area	52	-	-	-	Level 02	
Discovery Commons Area	54	-	-	-	Level 02	
Discovery Commons Area	68	-	-		Level 03	
Discovery Commons Area	66		185		Level 03	Difference calculated from sum of Discovery Commons Areas (2,185 SQFT)





Smothers Elementary School Plan-to-Program Table (Continued)

Core Academic Areas

Core Academic Areas	Area	Ed SPEC Area	Area Difference	% Area Diff.	Level	Notes
Resource Room/ Small Group	327	360			Level 02	110100
Resource Room/ Small Group	382	360			Level 03	
Resource Room/ Small Group	385	360			Level 02	
Resource Room/ Small Group	385	360	25		Level 03	
Self Contained Classroom Grades 2-5	834	900	-66		Level 03	
Self Contained Classroom Grades Pre-S - 1	916	1,025	-109		Level 01	Space smaller than programed due to location of existing structural walls
Self Contained Classroom Grades Pre-S - 1	1,025	1,025	C	0%	Level 02	
Self Contained Classroom Grades Pre-S - 1 Restroom	59	60	-1		Level 01	
Self Contained Classroom Grades Pre-S - 1 Restroom	62	60	2	3%	Level 02	
Self Contained Classroom/ Grades Pre-S - 1 Shared Storage	115	100	15	15%	Level 01	Space larger than programed due to location of existing structural walls and because shared between two rooms
Self Contained Classroom Grades Pre-S - 1 Storage	104	100	4	4%	Level 02	
OT/ PT	452	450	2		Level 02	
OT/ PT	468	450	18	4%	Level 03	
Speech/ OT/ PT Shared Storage	208	150	58	39%	Level 03	Due to space constraints in the existing building we are providing one larger and one smaller Speech/ OT/ PT Shared Storage room
Speech/ OT/ PT Shared Storage	57	150	-93	-62%	Level 02	Due to space constraints in the existing building we are providing one larger and one smaller Speech/ OT/ PT Shared Storage room
Independent Area	90	75	15		Level 03	Space larger than programed due to location of existing structural walls and windows
Special Education Coordinator Office	146	150	-4		Level 03	
Teacher Collaboration Room	274	300	-26	-9%	Level 02	
Teacher Collaboration Room	359	300	-150		Level 03	Space larger than programed due to location of existing windows
Teacher Collaboration Room	299	300	-1		Level 03	
Leveled Reading Storage Room	285	300	-15	-5%	Level 02	
General Classroom Storage	235	200	35	18%	Level 03	Space larger than programed due to location of existing windows
Laptop Cart Storage	88	75	13	17%	Level 03	Space larger than programed due to location of existing structural walls
Laptop Cart Storage	103	75	28	37%	Level 02	Space larger than programed, under further review during DD
Laptop Cart Storage	88	75	13		Level 03	Space larger than programed, under further review during DD
Outdoor Classroom	Not Placed	-	-		Not Placed	To be included in Site Plan
Garden	Not Placed	-	-	-	Not Placed	To be included in Site Plan
Speech	190	150	40	27%	Level 03	Space larger than programed, under further review during DD
Specials Office/ Storage	282			13%	Level 02	Space larger than programed due to location of existing structural walls
Total	27,792	· · · · · · · · · · · · · · · · · · ·		-	-	-
Library Spaces	Area	Ed SPEC Area	Area Difference	% Area Diff.	Level	Notes
Pooding/Lograing/Circulation	2,187	2 500	-313	100	Level 02	Space smaller than programed, under further review during
Reading/Learning/Circulation	492	2,500			Level 02 Level 02	DD
Maker Space Small Group/ Conference Room	152	500 150	3-		Level 02 Level 02	
Small Group/ Conference Room	152	150	2		Level 02	
ornali Group/ Conference Noon	132	130		170	LCVCI UZ	Space smaller than programed, under further review during
Office/ Workroom	336	400	-64		Level 02	DD
Conference Room  Total	251 <b>3,570</b>	250 <b>3,950</b>		0%	Level 02	
Visual Arts Spaces		Ed SPEC Area	Area Difference	% Area Diff.	Level	Notes
Art Lab	<b>Area</b> 997	1,000	Area Difference			140165
Kiln Room	61	60	1	2%		
Art Storage	151	150	1	1%		
Total	1,209		-	-	#INLI!	_
Preforming Arts Spaces	Area	Ed SPEC Area	Area Difference	% Area Diff.	Level	Notes
General Music Room	930		30		Level 02	11000
General Music Storage	240				Level 03	
Total	1,170			-	-	-





# **Smothers Elementary School Plan-to-Program Table** (Continued)

Physical Education Spaces	Area	Ed SPEC Area	Area Difference	% Area Diff.	Level	Notes
Gymnasium	3,389	3,400	-11	0%	Level 01	
Stage (optional)	-	700	-	-	Level 01	Murphy stage, SQFT included in Gymnasium
PE Office	137	150	-13		Level 01	
PE/ Bicycle Storage	472	550	-78	-14%	Level 01	Combined PE Storage and Bicycle storage. Space smaller than programed, under further review during DD
Chair Storage	96	100	-4	_1%	Level 01	triair programed, under further review during DD
Outdoor PE Storage	Not Placed	100	-4		Level 01	Will be included in Site Plan.
Total	4,094	4,900	_	_	_	Will be included in Site Flan.
Administrative Spaces	Area		Area Difference	% Area Diff.	Level	Notes
Entrance Lobby	168	Gross Up	-		Level 01	Notes
Welcome Center	415	459	-44		Level 01	
Security Area	82	75	7		Level 01	
Conference Room	191	200	-9		Level 01	
Principal's Office	191	200	-9		Level 01	
Administrative Office	142	150	-8		Level 03	
						Space smaller than programed, under further review during
Administrative Office	123	150	-27		Level 03	DD
Administrative Workroom	280	250	30		Level 01	Space larger than programmed, however; the extra space will be used for circulation
Records Room	137	150	-13		Level 01	
Parent Resource Center	184	200	-16		Level 01	
Counselor's Office	152	150	2		Level 03	
Student Services	143	150	-7		Level 03	
#REF!	Not Placed	150	-150	-100%	-	Space left out in error, will be added in DD
Student Services Conference	243	200	43	22%	Level 03	Space larger than programed due to location of existing windows
After School Program Office	278	300	-22	-7%	Level 03	
Staff Lounge	397	400	-3	-1%	Level 01	
Wellness/ Lactation Room	141	150	-9	-6%	Level 01	
Total	3,267	3,334	-	-	-	-
Health Suite Spaces	Area	Ed SPEC Area	Area Difference	% Area Diff.	Level	Notes
Waiting Area	152	150	2		Level 01	
Treatment Area	142	150	-8		Level 01	
Cots	102	100	2		Level 01	
Office	96	100	-4		Level 01	
Toilet	51	50	1	2%	Level 01	
Storage	29	25	4	16%	Level 01	Space larger than programed, under further review during DD
Total	572	575	-	-	-	-
Food and Dining Spaces	Area	Ed SPEC Area	Area Difference	% Area Diff.	Level	Notes
Student Dining Area	2,183	1,696	487	29%	Level 01	Space larger than programmed due to size of existing Multipurpose Room
Stage (optional)	120	800	-680	-85%	Level 01	Size of existing stage reduced to maintain character of MPR, but the main stage for school performances will be relocated to the Gymnasium
Chair/ Table Storage	131	125	6	5%	Level 01	
Kitchen/ Food Preparation	652	650	2		Level 01	
Serving Area	299	275	24		Level 01	
Dry Food Storage	249	250	-1	0%	Level 01	
Freezer and Cooler	245	250	-5	-2%	Level 01	
Ware Washing	101	100	1		Level 01	
Cleaning Storage	51	50	1		Level 01	
Food Service Office	157	150	7		Level 01	
Toilet/ Lockers	153	150	3		Level 01	
Total	4,341	3,696	-	-	-	-
	-,	-,				





# **Smothers Elementary School Plan-to-Program Table** (Continued)

Building Support	Area	Ed SPEC Area	Area Difference	% Area Diff.	Level	Notes
Mechanical/ Electrical Space	814		-	-	Basement	
Mechanical/ Electrical Space	180		-	-	Basement	
Mechanical/ Electrical Space	67		-	-	Basement	
Mechanical/ Electrical Space	115		-	-	Level 01	
Mechanical/ Electrical Space	101		-	-	Level 01	
Mechanical/ Electrical Space	285		-	-	Level 02	
Mechanical/ Electrical Space	103		-	-	Level 02	
Mechanical/ Electrical Space	89		-	-	Level 03	
Mechanical/ Electrical Space	70		-	-	Level 03	
Restroom	75		-	-	Level 01	
Staff Restroom	63		-	-	Level 03	
Restroom	61		-	-	Level 03	
Staff Restroom	51		-	-	Level 01	
Restroom	62		-	-	Level 02	
Staff Restroom	59		-	-	Level 02	
Girls Restroom	175		-	-	Level 01	
Girls Restroom	176		-	-	Level 03	
Boys Restroom	162		-	-	Level 01	
Boys Restroom	153		-	-	Level 03	
Mechanical/ Electrical Space	101		-	-	Basement	
Supply Storage	97	150	-53	-35%	Level 02	Space smaller than programed, under further review during DD
Laundry Room	Not Placed	80	-80	-100%	-	Space not yet located, will be included in DD
Toilet/ Shower/ Locker Room	151	150	1	1%	Level 01	
Custodial/ DGS Office	151	150	1		Level 01	
Custodial/ DGS Office	151	150	1	1%	Level 01	
Custodial Closet	32	25	7	28%	Level 01	Space larger than programed due to location of existing structural walls
Custodial Closet	Not Placed	25	-25	-100%	Not Placed	Space not yet located, will be included in DD
Custodial Closet	32	25	7	28%	Level 03	Space larger than programed due to location of existing structural walls
Custodial Closet	35	25	10	40%	Level 02	Space larger than programed due to location of existing structural walls
Custodial Closet	29	25	4	16%	Level 03	Space larger than programed due to location of existing structural walls
Custodial Closet	29	25	4	16%	Level 01	Space larger than programed due to location of existing structural walls
Custodial Closet	Not Placed	25	-	-	Not Placed	Space not yet located, will be included in DD
Electrical Closet	Not Placed		-	-	Not Placed	Included in general "Mechanical/ Electrical" space, will be specifically located in DD
MDF Room	Not Placed	200	-	-	Not Placed	Included in general "Mechanical/ Electrical" space, will be specifically located in DD
IDF Room	Not Placed	100	-	-	Not Placed	Included in general "Mechanical/ Electrical" space, will be specifically located in DD
IDF Room	Not Placed	100	-	-	Not Placed	Included in general "Mechanical/ Electrical" space, will be specifically located in DD
IDF Room	Not Placed	100	-		Not Placed	Included in general "Mechanical/ Electrical" space, will be specifically located in DD
Custodial Equipment Storage	300	300	0		Level 01	
Central Storage Area	303	318	-15		Level 02	
Receiving Area	156	150	6	4%	Level 01	
Technology Storage	81		-	-	Level 02	
Total	4,509	2,123	-	-	-	-



# **Smothers Elementary School Plan-to-Program Table** (Continued)

Circulation	Area	Ed SPEC Area	Area Difference	% Area Diff.	Level	Notes
Circulation	906	-	-	-	Level 01	
Circulation	2,776	-	-	-	Level 01	
Circulation	88	-	-	-	Level 01	
Circulation	1,322	-	-	-	Level 02	
Circulation	1,756	-	-	-	Level 02	
Circulation	1,200	-	-	-	Level 03	
Circulation	2,864	-	-	-	Level 03	
Circulation	84	-	-	-	Level 01	
Circulation	680	-	-	-	Level 02	
Circulation	190	-	-	-	Level 01	
Circulation	556	-	-	-	Level 01	
Elevator	74	-	-	-	Level 01	
Elevator	70	-	-	-	Level 02	
Elevator	61	-	-	-	Level 03	
Stair A	268	-	-	-	Level 01	
Stair A	287	-	-	-	Level 02	
Stair A	287	-	-	-	Level 03	
Stair B	291	-	-	-	Level 02	
Stair B	291	-	-	-	Level 03	
Stair B	377	-	-	-	Level 01	
Stair C	199	-	-	-	Level 02	
Stair C	199	-	-	-	Level 03	
Stair D	108	-	-	-	Level 01	
Stair D	168	-	-	-	Level 02	
Stair D	172	-	-	-	Level 03	
Vestibule	63	-	-	-	Level 01	
Vestibule	8	-	-	-	Level 01	
Total	15,345	-	-	-	-	-
Total Assignable Area	50,388	48,778		-	-	-
Gross-up	15,481	19,023			-	-
Total Gross Area	65,869	67,801			-	-
Efficiency Ratio	1.31	1.39				





# EXISTING CONDITIONS

EXISTING SITE EXISTING BUILDING

AN ANALYSIS OF THE EXISTING SITE IS
INCLUDED IN THIS SECTION. THESE DIAGRAMS
DEPICT SOME ESSENTIAL ELEMENTS OF THE
CURRENT CONDITIONS AND HAVE HELPED INFORM
THE SITE PLANNING PROCESS.

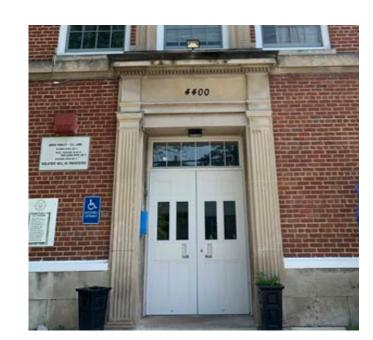
### **EXISTING CONDITIONS - EXTERIOR PHOTOS**



FRONT FACADE - CENTAL BAY



FRONT FACADE - BROOKS STREET NE



MAIN ENTRY VESTIBLE SURROUND



**BAY WINDOW - EAST ELEVATION** 





### **EXISTING CONDITIONS - EXTERIOR PHOTOS**



**NORTH ELEVATION - CHIMNEY STACK** 



**EAST ELEVATION** 

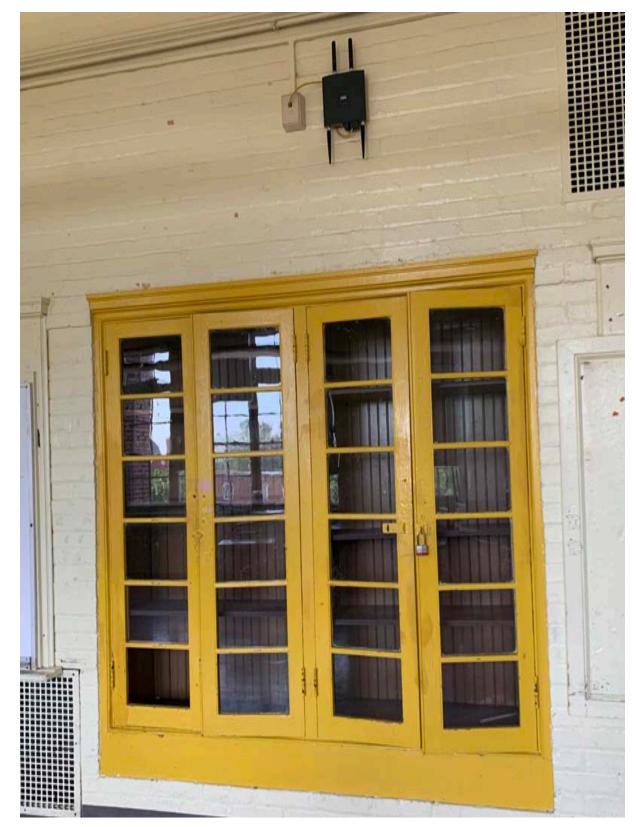


**MURAL ON MULTI-PURPOSE ROOM** 





### **EXISTING CONDITIONS - INTERIOR PHOTOS**



**BUILT IN BOOK SHELVES** 



ARCHED ENTRY FOR CLOAKROOM



**CLOAKROOM** 



**INTERIOR VIEW CLASSROOM** 









### **EXISTING CONDITIONS - INTERIOR PHOTOS**



INTERIOR OF MULTIPURPOSE ROOM WITH PROSCENIUM



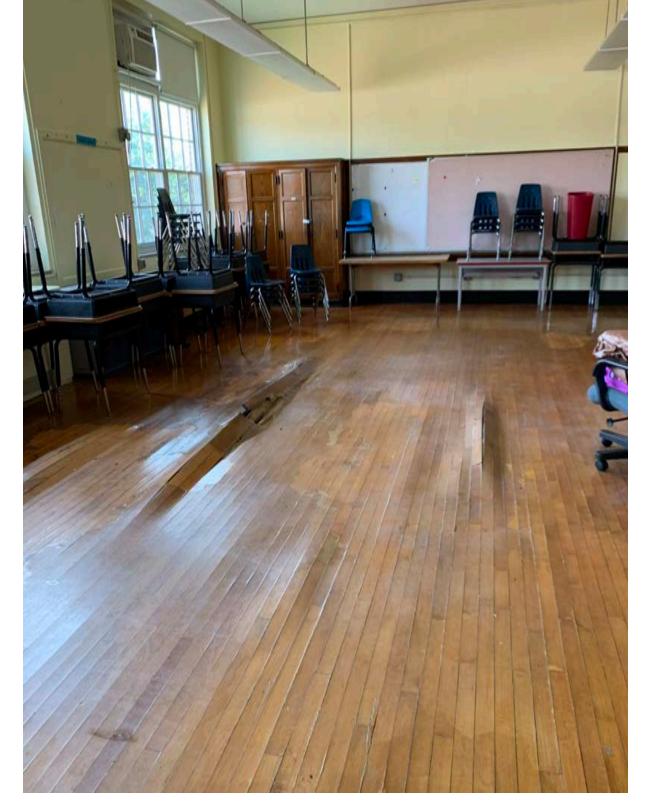




**INTERIOR DOORS** 







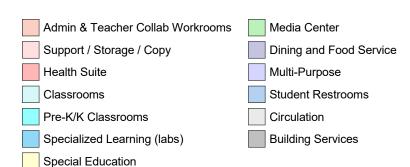
WARPED WOOD FLOORING IN CLASSROOM

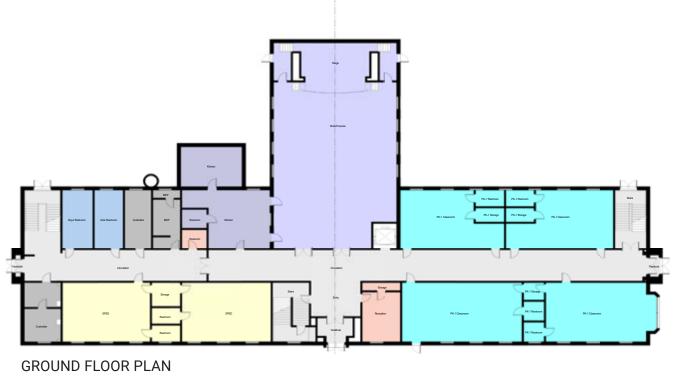


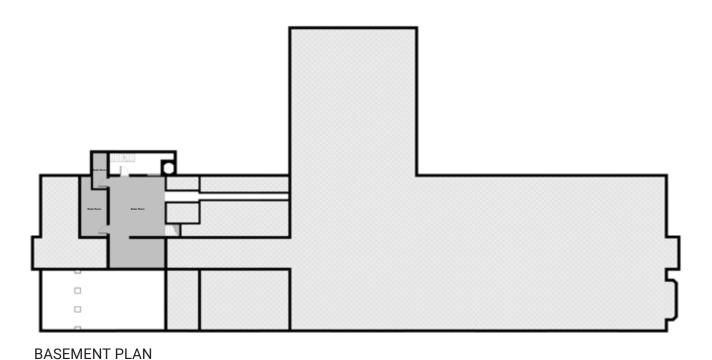


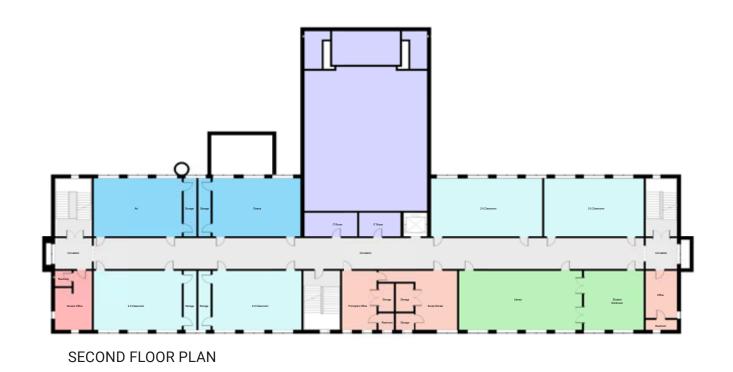
SITE ACCESS

## EXISTING FLOOR PLANS









### EXISTING FLOOR PLANS

### **EXISTING BUILDING PLANS**

Media Center

Multi-Purpose

Circulation Building Services

Student Restrooms

Dining and Food Service

Admin & Teacher Collab Workrooms

Support / Storage / Copy

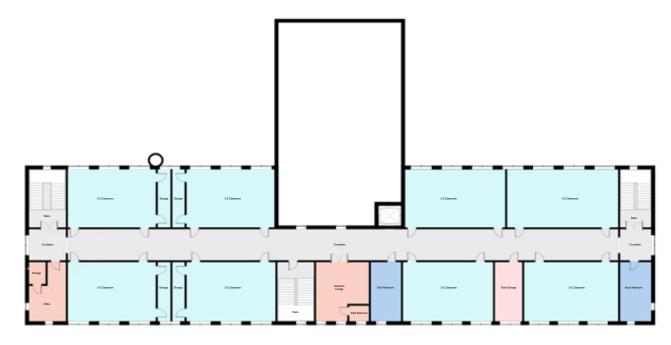
Pre-K/K Classrooms

Special Education

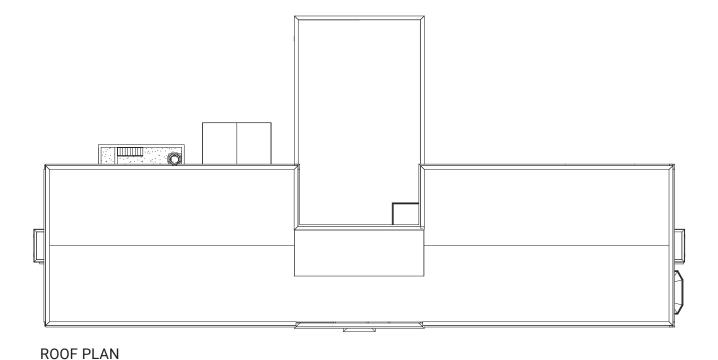
Specialized Learning (labs)

Health Suite

Classrooms



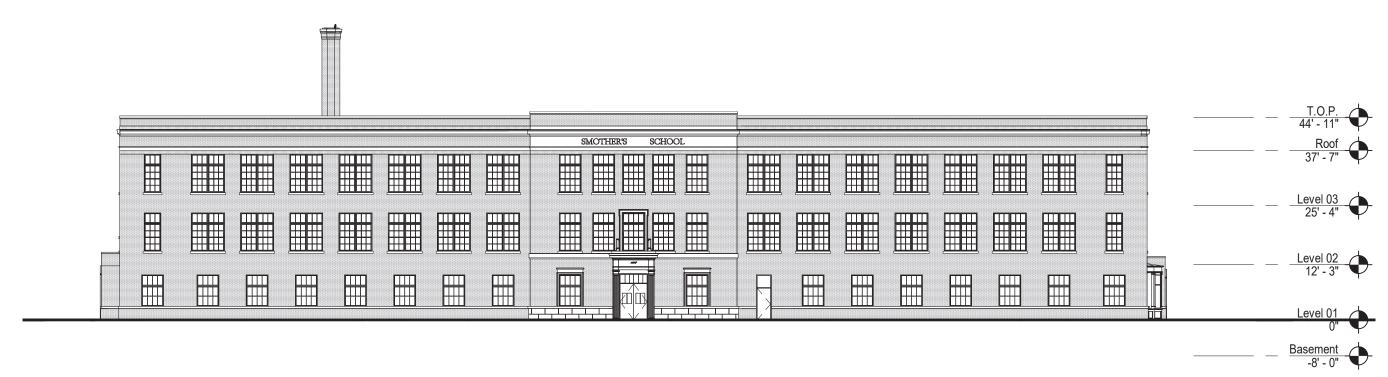
THIRD FLOOR PLAN



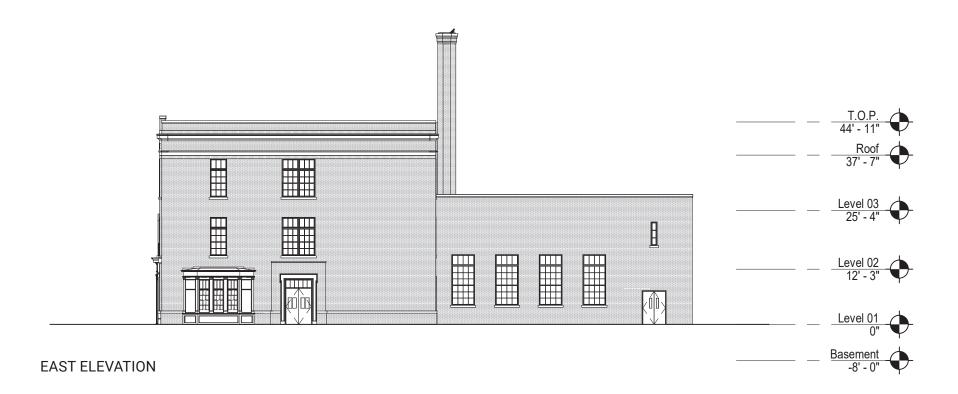




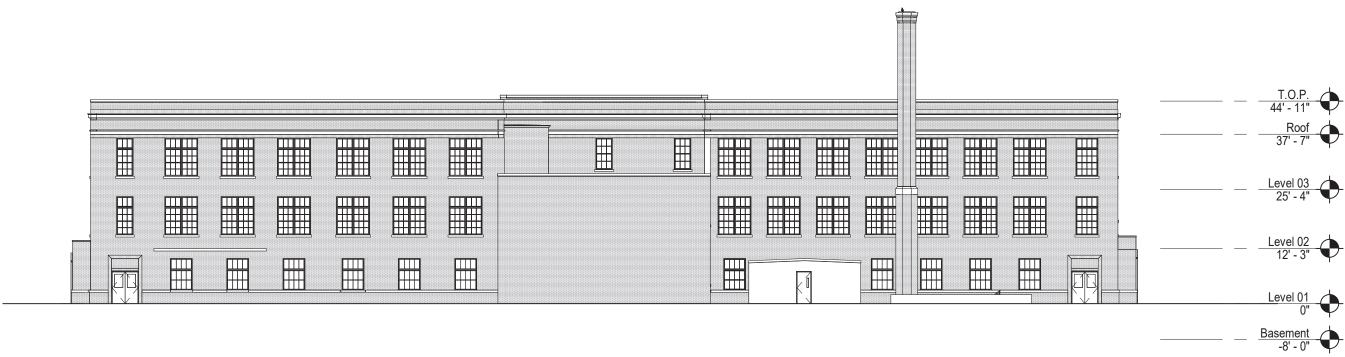
# **EXISTING ELEVATIONS**



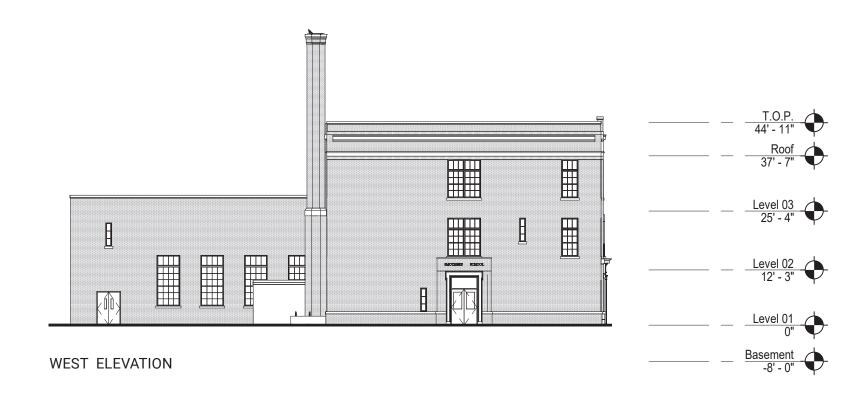
**SOUTH ELEVATION** 



## **EXISTING ELEVATIONS**



NORTH ELEVATION









DURING THE CONCEPT DESIGN PHASE, THE SCHOOL COMMUNITY HIGHLIGHTED THE FOLLOWING OBJECTIVES AS KEYS FOR SUCCESS:

THE NEED FOR MAXIMIZING OUTDOOR OPEN PLAY SPACE

RETAINING THE HISTORIC CHARACTER OF
THE EXISTING BUILDING AS A MEANS TO
ACKNOWLEDGE AND CELEBRATE THE SCHOOL'S
MULTI-GENERATIONAL COMMUNITY

NATURALLY LIT ENVIRONMENT TO PROMOTE FOCUS AND WELLNESS

TEACHER COLLABORATION AND RESTORATION AREAS

SAFE AND SECURE FACILITY

**READILY ACCESSIBLE RESTROOMS** 

WELCOMING ENVIRONMENT FOR THE COMMUNITY
TO FOSTER FAMILY ENGAGEMENT AND
INVOLVEMENT

EXISTING SITE AND BUILDING CHALLENGES
REQUIRED CAREFUL EVALUATION IN ORDER TO
ADEQUATELY ACCOMMODATE A 21ST CENTURY
EDUCATIONAL PROGRAM.

IN ORDER TO FULFILL THE OBJECTIVE OF MAXIMIZING OPEN PLAY AREA ON A LIMITED SITE. THREE VEHICULAR ACCESS AND CIRCULATION LAYOUTS WERE EXPLORED DURING THE CONCEPT PHASE. THE SELECTED SCHEME UTILIZES A ONE-WAY DRIVE LANE ALONG THE EAST AND NORTHERN EDGES OF THE SITE ACCESSIBLE FROM BROOKS STREET. THIS LANE SERVES STAFF PARKING, SERVICE ACCESS, DELIVERIES, AND OMITS THE NEED FOR VEHICLE TURN-AROUND SPACE. BY STREAMLINING THE VEHICULAR ACCESS ROUTE ALONG THE PERMETER, A WELL-DEFINED, EASILY ACCESSIBLE, AND CENTRALIZED OPEN PLAY AREA CAN BE PROVIDED. ADJACENT TO THE OPEN PLAY AREA IS A COVERED PLAY AREA ZONED FOR PRE-K AND K STUDENTS. THE ROOF AREA OF THE GYMNASIUM PROVIDES AN ADDITIONAL OPPORTUNITY FOR PHYSICAL ACTIVIES AND IS CURRENTLY REFLECTED ON THE FLOOR PLANS.

WITHIN THE BUILDING, **HISTORIC ELEMENTS** ARE RETAINED IN THE CURRENT DESIGN SCHEME,
THESE INCLUDE RETAINING THE ORIGINAL 1923

04

# CONCEPT DESIGN

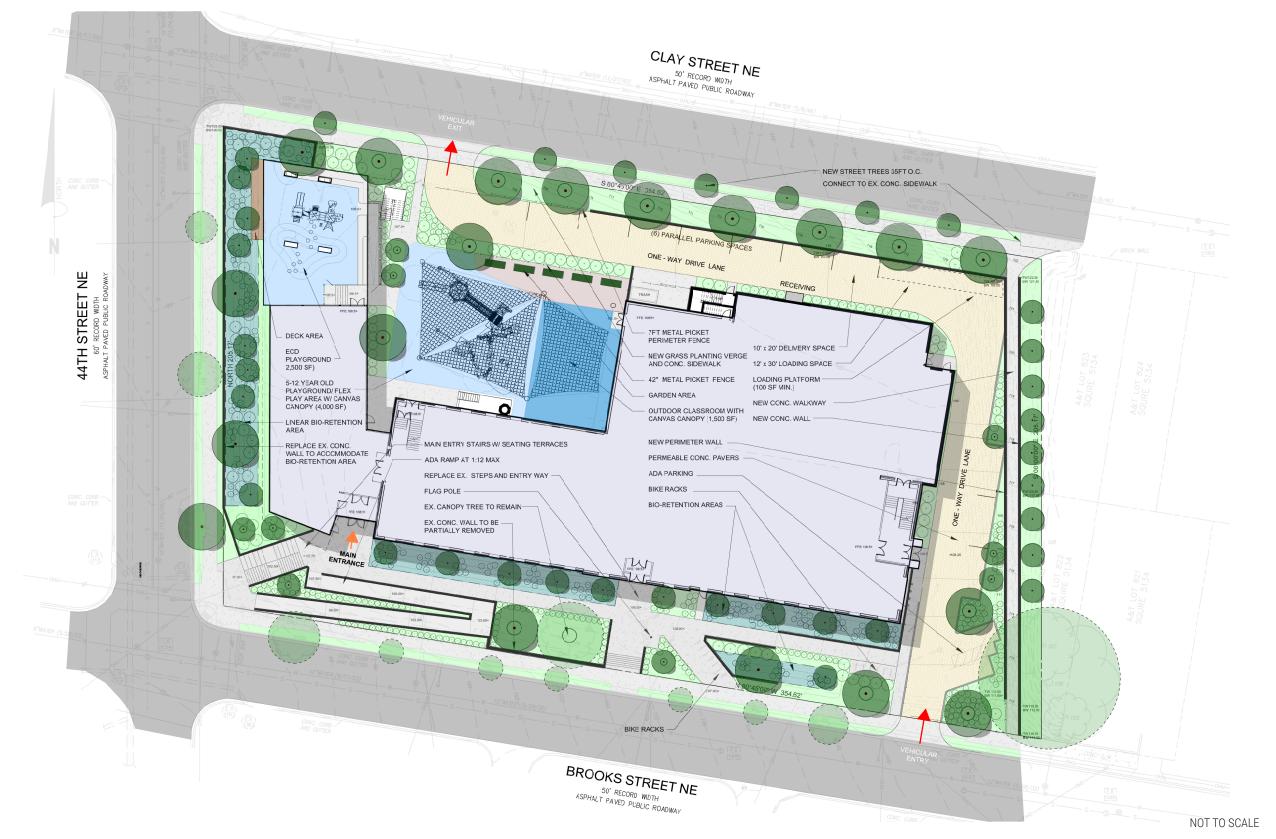
SCHOOL ENTRANCE ON THE WEST SIDE OF THE BUILDING, THE CURRENT 1939 MAIN ENTRANCE, THE MULTIPURPOSE ROOM, SMOKESTACK, AND BAY WINDOW AT THE EAST EDGE OF THE BUILDING.

STRUCTURE WERE REVIEWED TO DETERMINE HOW CLASSROOMS AND OTHER PROGRAM ELEMENTS COULD BE ACCOMMODATED WHILE MEETING CURRENT ED SPEC REQUIREMENTS. THE CURRENT DESIGN FACTORS RESULTS OBTAINED FROM THE DESIGN TEAM'S STRUCTURAL ANALYSIS AND RETAINS KEY ELEMENTS REQUIRED TO MAINTAIN THE PRE-EXISTING STRUCTURAL SYSTEM.

**ACHIEVING NET ZERO ENERGY PERFORMANCE** 

WILL BE AN ONGOING DISCUSSION WITH PROJECT STAKEHOLDERS AS THE DESIGN DEVELOPS. DUE TO THE LIMITED SITE AREA AND RESULTING BUILDING FOOTPRINT, ROOF AREA IS LIMITED TO RECEIVE PHOTOVOLTAICS PANELS, A KEY COMPONENT TO MEETING NZE GOALS.

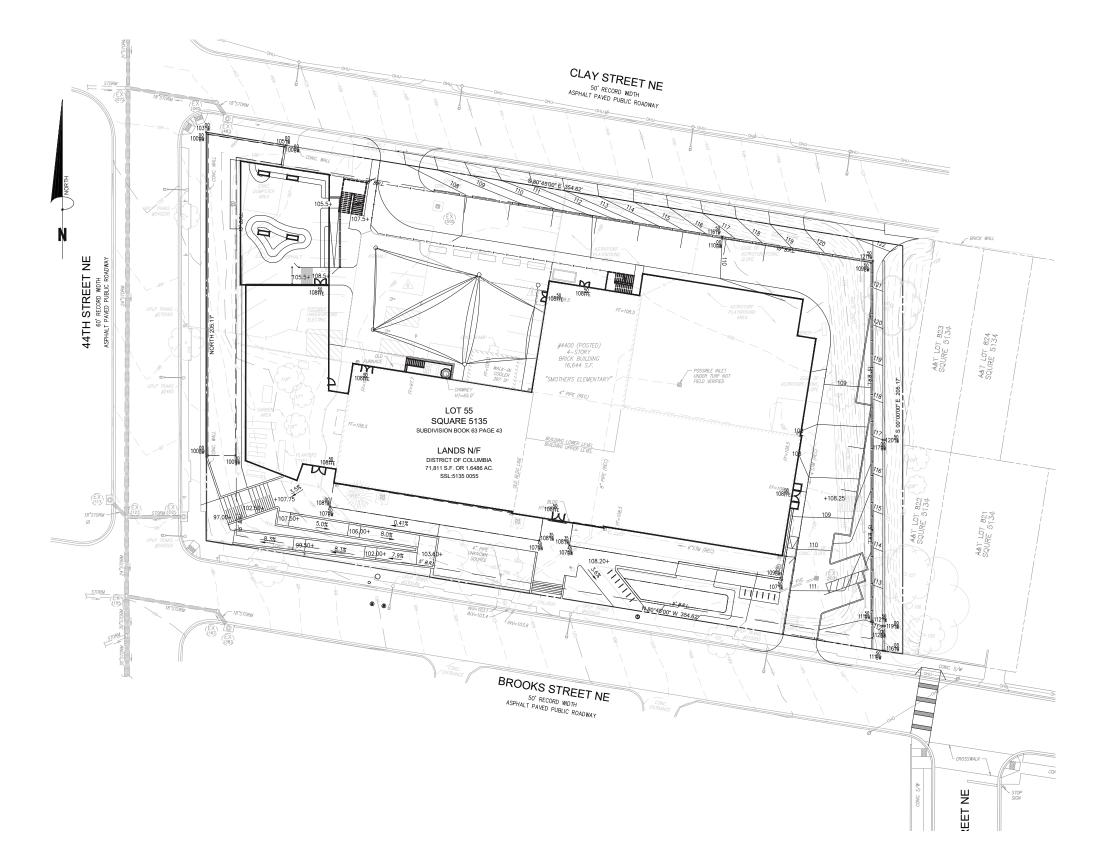
## SITE PLAN







## GRADING

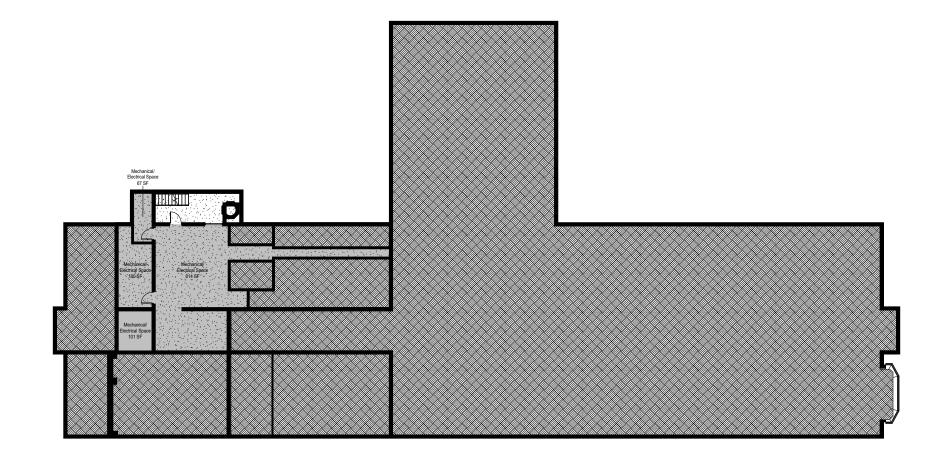


NOT TO SCALE





## **BASEMENT**



### K-12 Department

Core Academic Areas

Core Academic Areas -Discovery Commons

Library Spaces Visual Arts Spaces

Preforming Arts Spaces

Physical Education Spaces

Administrative Spaces

Health Suite Spaces Food and Dining Spaces

Multi-Purpose

Building Support

Circulation

Room Labels

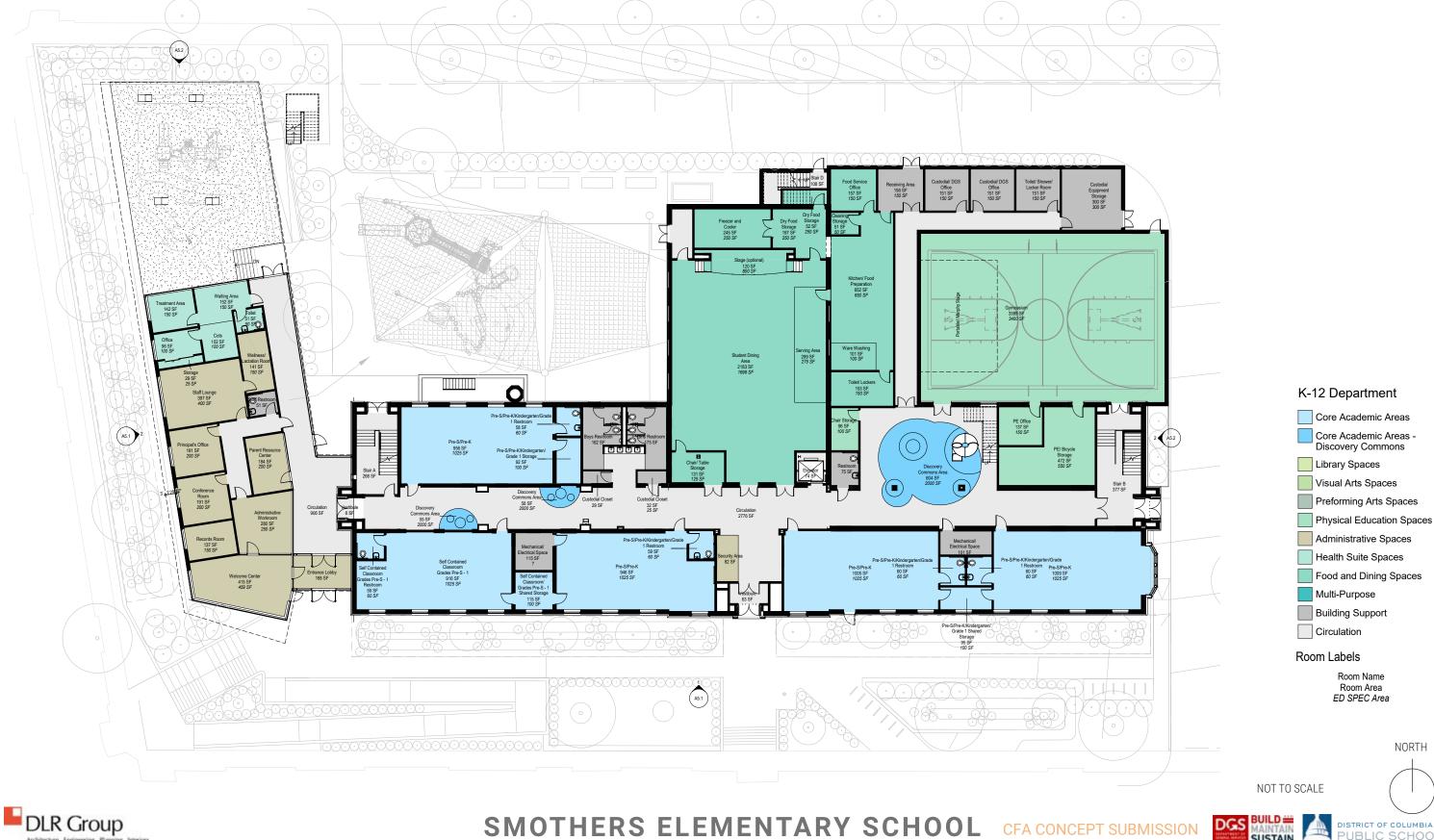
Room Name Room Area ED SPEC Area

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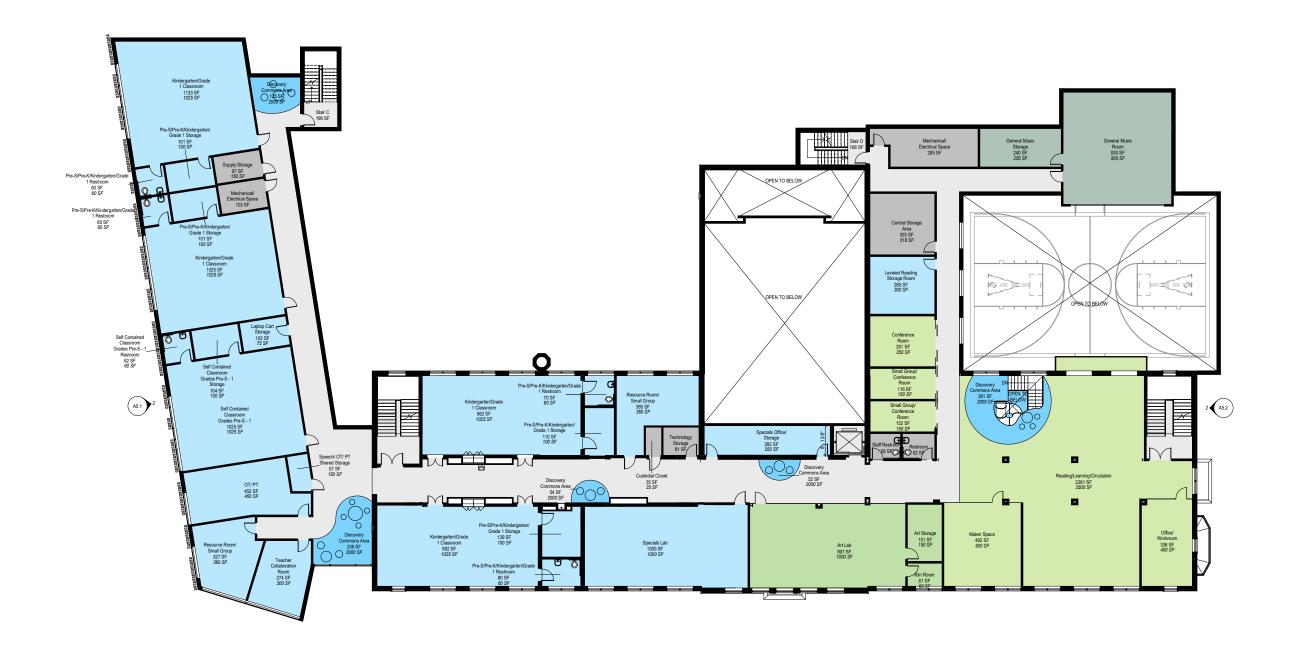




# FIRST FLOOR



## SECOND FLOOR



### K-12 Department

Core Academic Areas

Core Academic Areas -Discovery Commons

Library Spaces

Visual Arts Spaces

Preforming Arts Spaces

Physical Education Spaces

Administrative Spaces

Health Suite Spaces

Food and Dining Spaces

Multi-Purpose Building Support

Circulation

Room Labels

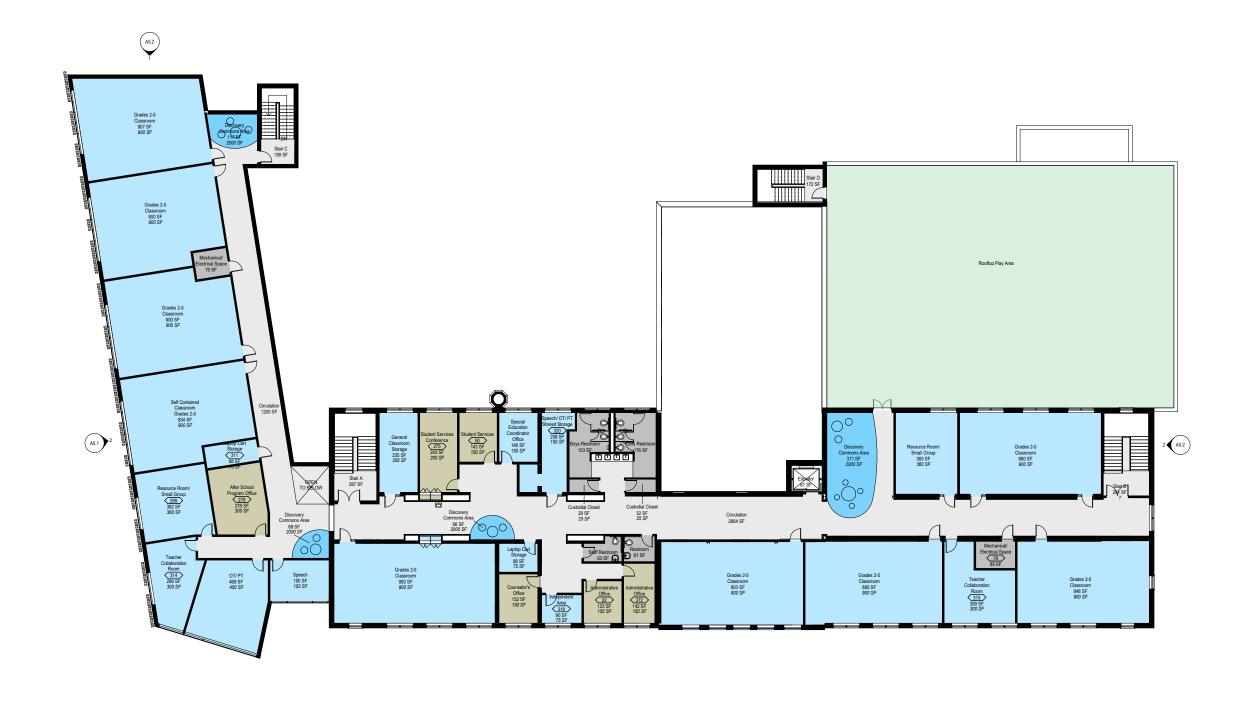
Room Name Room Area ED SPEC Area







### THIRD FLOOR



### K-12 Department

Core Academic Areas

Core Academic Areas -Discovery Commons

Library Spaces

Visual Arts Spaces

Preforming Arts Spaces

Physical Education Spaces

Administrative Spaces

Health Suite Spaces

Food and Dining Spaces

Multi-Purpose

Building Support

Circulation

Room Labels

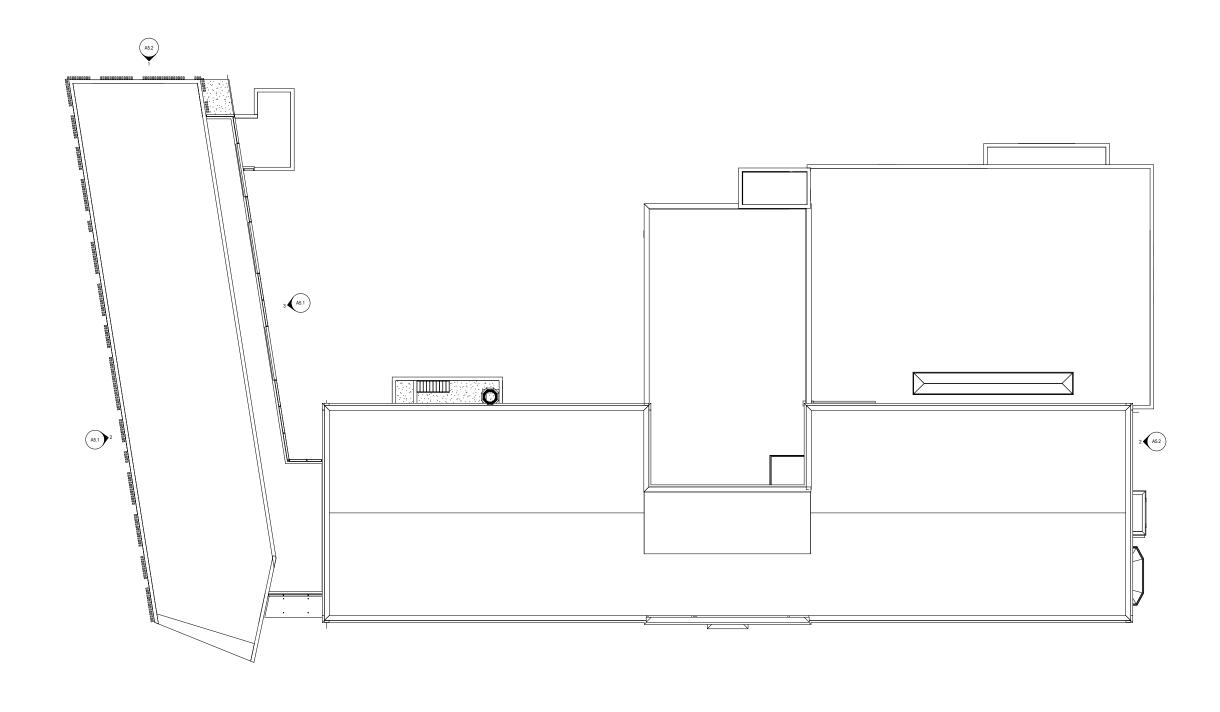
Room Name Room Area ED SPEC Area







## ROOF



### K-12 Department

Core Academic Areas

Core Academic Areas -Discovery Commons

Library Spaces Visual Arts Spaces

Preforming Arts Spaces

Physical Education Spaces

Administrative Spaces

Health Suite Spaces Food and Dining Spaces

Multi-Purpose

Building Support

Circulation

#### Room Labels

Room Name Room Area ED SPEC Area

NOT TO SCALE





## **EXTERIOR DESIGN**







### **EXTERIOR DESIGN**







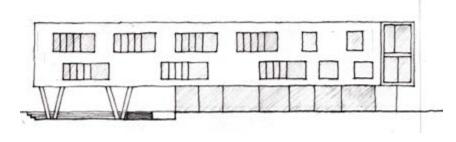
**Brick brise-soleil precedent imagery** 



**Brick brise-soleil concept study** 



Fiber cement panel imagery



West facade fenestration study - fiber cement panels

### **Exterior Design Concept**

The modernization of Smothers Elementary calls for a careful knitting together of new and existing structures, programs and approaches. Just as Smothers' mission is the development of the whole child, our intention is to create a new building framework which supports, highlights and joins together the school's various educational, social, emotional and physical spheres... a representational model signaling a commitment to a dynamic and progressive future.

We do this most evidently through the treatment of the classrooms in the new construction west wing. Located with its primary street elevation facing west due to tight lot constraints, this difficult orientation is turned into an opportunity. A system of masonry screens, brick brise-soleil, modulate the classrooms' lower-sun exposure and become the defining feature of the building. Simultaneously monolithic and diaphanous, these screens (held off the façade 1 ft) afford the luxury of large windows in the classrooms similar in size to the gracious scale of those in the existing building, without compromising daylight and views. Breaks between screens allow for operable windows.

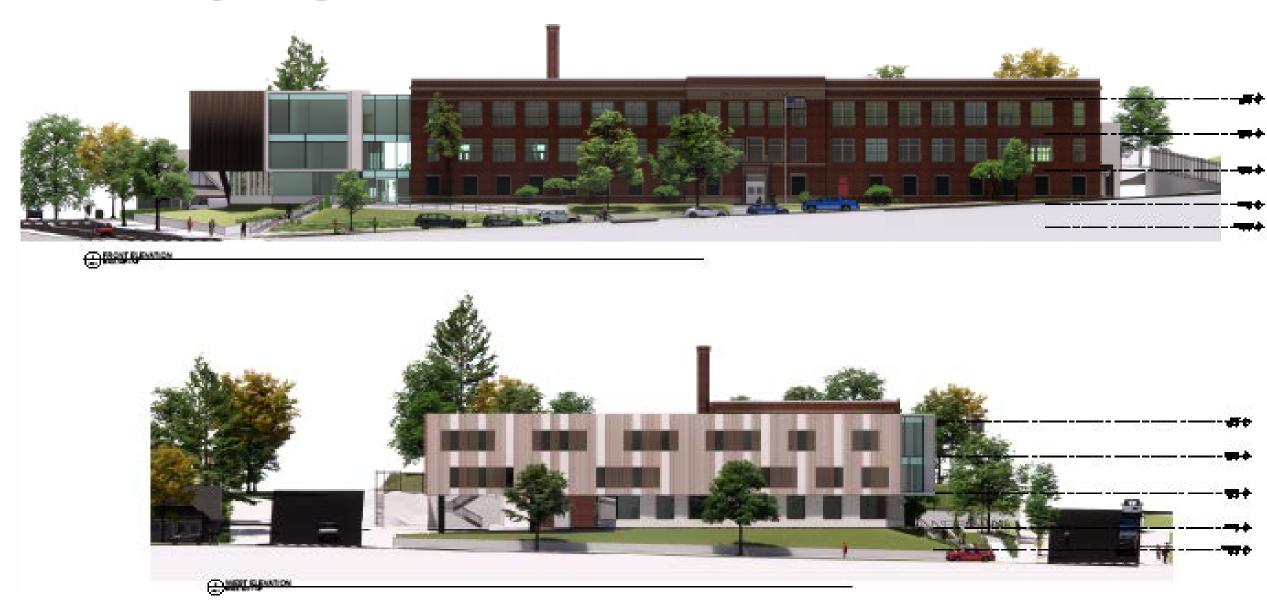
The brick harnesses refected light which enhances the luminescence, producing bright, open & inspiring educational spaces; all while the masonry curtain composition subtly meshes with the vocabulary of the school's existing brick.

This high-performance strategy is intended to confront the project's demanding Net Zero requirements head-on; resulting in a solution which is ultra-functional, enduring, contemporary yet contextual, while carrying within it inherent variety and playfulness.

The proposed base exterior material at the new additions, including underneath the brick brise-soleil, is fiber cement panels. This material provides a counterpoint to the historic brick and offers a durable, weather resistant envelope for the new wings.



## **ELEVATIONS**





TO SCALE



## **ELEVATIONS**





# SECTIONS





NOT TO SCALE



## VIEWS







APPROACH TO MAIN ENTRY FROM EAST



COVERED PRE-K PLAY AREA



OVERHAD VIEW FROM NORTHEAST



**CLAY STREET VIEW** 

NOT TO SCALE

