

# DuFief Elementary School Schematic Design



WORK SESSION 1 – OCTOBER 15, 2019 – 7:00 PM

WORK SESSION 2 – NOVEMBER 5, 2019 – 3:45 PM

**DUFIEF**

+

**WMCRP**

+



# Work Session Topics

1. Goals and objectives
2. Background - Feasibility Study
3. Updated Schematic Site Plan
4. Updated Schematic Floor Plans
5. Building Massing Model
6. Examples of Outdoor Spaces
7. Overall Project Schedule
8. Questions and Discussions
9. Re-cap

# Goals & Objectives

1. Keep cars and buses separate
2. Maximize open space for fields and playgrounds
3. Provide windows in all classrooms and all occupied spaces
4. Provide separate student drop-off
5. Maintain and enhance landscape buffers between school and adjacent property owners
6. Consolidate fields and playgrounds for ease of supervision
7. Orient classrooms wing(s) north/south to control daylight and heat gain
8. Minimize building footprint
9. Create a safe environment for the children, staff and visitors
10. Provide courtyards for daylight and student use

# Educational Specification

## Space Summary

### Space Summary

#### DuFief Elementary School Addition/Facility Upgrade Square Foot Summary

When this project is complete, the following spaces are to be provided:  
The capacity will be 753 with a core capacity of 740.

Last updated:  
10/11/19

Facility New Program Spaces	#	Description	Net Sq. Ft.	Total Net Sq. Ft.
<b>Classrooms</b>				
Prekindergarten Speech and Language	1	Includes 250 s.f. storage	1300	1300
Prekindergarten Special Education	1	Includes 250 s.f. storage	1300	1300
Kindergarten	5	Includes 250 s.f. storage	1300	6500
Standard Grades 1-5	25		900	22500
Special Ed Classroom (Learning Center)	5		900	4500
Psychologists Suite/Future Classroom	1		900	900
Art	1	Includes 250 s.f. storage	1100	1100
Music	1	Includes 250 s.f. storage	1050	1050
Dual purpose Room	1		1000	1000
Instrumental Music Room	1		450	450
<b>Support Rooms</b>				
Large Instructional Support Room	2		600	1200
Small Instructional Support Room	3		450	1350
Learning Center Assessment Room	1		140	140
Learning Center Coordinator's Office	1		140	140
Learning Center File Room	1		200	200
Learning Center Reception	1		140	140
Speech/Language Room	2		250	500
Therapy/Support Room	1		350	350
Special Education Conference Room	1		250	250
Special Education Office	1		140	140
Testing/Conference Room	1		140	140
Support Staff Offices	2		140	280

## Space Summary

<b>Library Media Center</b>				
Learning Environment	1		2100	2100
Work and Production Area	1		500	500
Media Support/Storage Room	1		250	250
Textbook Storage	1		200	200
Telecommunication Equipment Closet	1		150	150
Telecommunication Closet	3		50	150
<b>Physical Education</b>				
Gymnasium	1		3700	3700
Office	1		140	140
Storage	1		250	250
Storage	2		100	200
Outside Storage	1		140	140
<b>Multipurpose Room</b>				
Multipurpose Room	1		3700	3700
Chair Storage	1		200	200
Table Storage	1		200	200
Platform	1		450	450
Before/After Care Prep Area	1		12	12
Before/After Care Storage	1		100	100
<b>Kitchen</b>				
Serving Area	1		300	300
Walk-in Cooler/Freezer	1		155	155
Dry Storage	1		192	192
Office	1		100	100
Toilet Room	1		70	70
Preparation Area	1		555	555
<b>Administration</b>				
General Office	1		500	500
Workroom	1		340	340
Principal's Office	1		250	250
Assistant Principal's Office	1		140	140
Conference	1		300	300
Storage	1		100	100
Records Room	1		100	100
Toilet Room	1		50	50
2nd Floor Workroom	1		75	75

# Educational Specification

## Space Summary

<b><u>Counseling Area</u></b>				
Counselor's Office	1		250	<b>250</b>
Itinerant Staff Office	1		140	<b>140</b>
<b><u>Staff Development Area</u></b>				
Staff Development Office	1		100	<b>100</b>
Reading Specialist Office	1		100	<b>100</b>
Training/Conference Room	1		400	<b>400</b>
<b><u>Staff Facilities</u></b>				
Staff Lounge	1	With 50 s.f. privacy room	700	<b>700</b>
<b><u>Health Services Suite</u></b>				
Waiting Area	1		100	<b>100</b>
Treatment/Medication Area	1		120	<b>120</b>
Office/Health Assessment Room	1		100	<b>100</b>
Health Assessment/Isolation Room	1		100	<b>100</b>
Rest Areas	1		200	<b>200</b>
Toilet Room	1		50	<b>50</b>
Storage Area	1		40	<b>40</b>
<b><u>Building Service Facilities</u></b>				
Building Services Office	1		140	<b>140</b>
Locker/Shower Area	1		150	<b>150</b>
Compactor/Trash Room	1		150	<b>150</b>
General Storage and Receiving	1		550	<b>550</b>
General Storage	3		240	<b>720</b>
Building Services Outdoor Storage	1		275	<b>275</b>
Book Storage	2		200	<b>400</b>
PTA Storage	1		100	<b>100</b>
<b>Total</b>	<b>40</b>			<b>65984</b>

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# **DUFIEF ELEMENTARY SCHOOL REVITALIZATION AND EXPANSION**

## **Feasibility Study**

**Prepared for**  
**Montgomery County Public Schools**

**by**  
**WALTON • MADDEN • COOPER • ROBINSON • PONESS, INC**

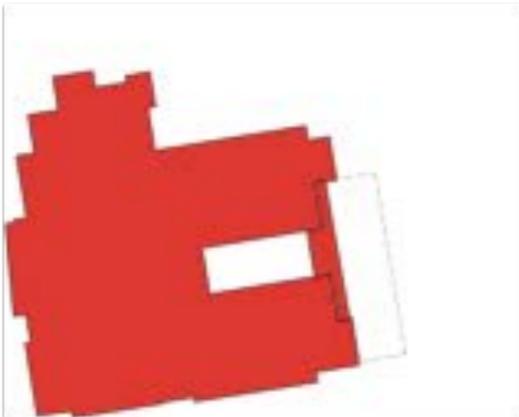
Huron Consulting, Consulting Engineers  
James Posey and Associates, Consulting Engineers

**November 2015 DRAFT**

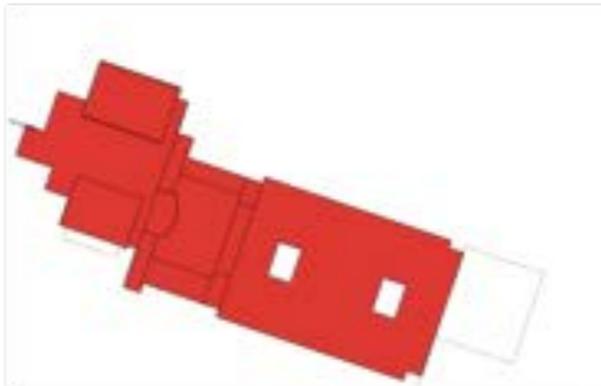
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**II. EXECUTIVE SUMMARY (CONTINUED)**

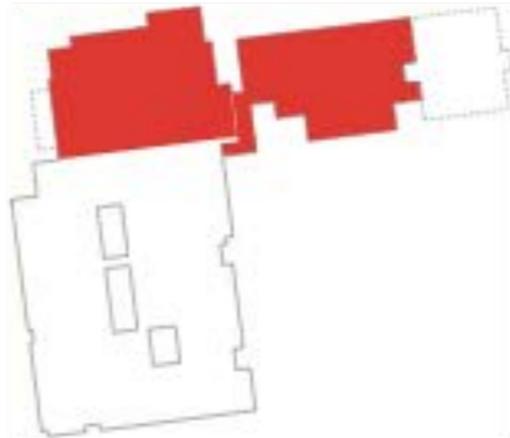
**H. COMPARATIVE ANALYSIS**



OPTION 1 - REPLACEMENT  
NEW CONSTRUCTION - 86,400 SF



OPTION 2 - REPLACEMENT  
NEW CONSTRUCTION 83,800 SF



OPTION 3 - RENOVATION/ADDITION  
NEW CONSTRUCTION - 38,400 SF  
RENOVATION - 46,000 SF  

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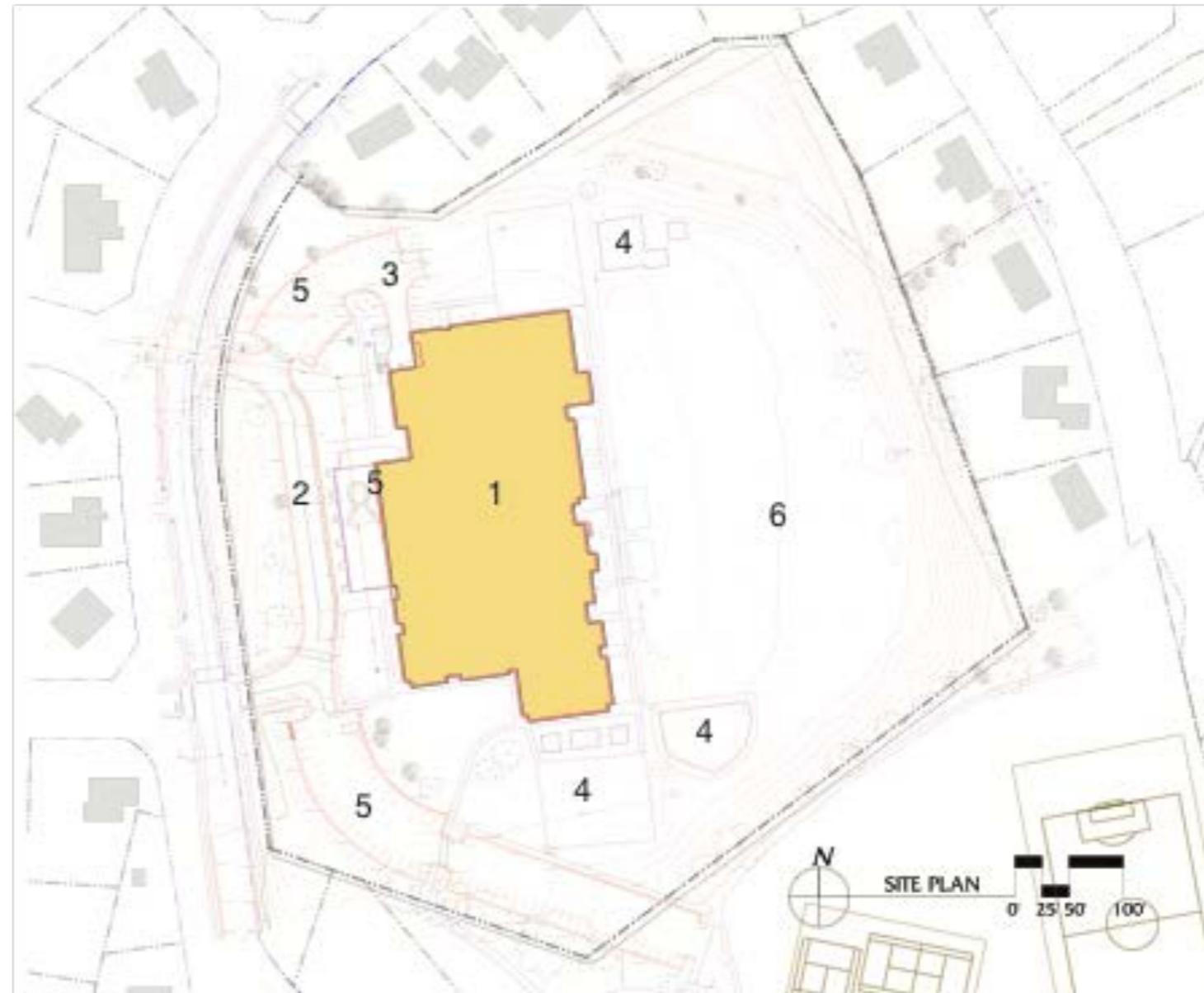
TOTAL 84,400 SF

## IV. EXISTING CONDITIONS (CONTINUED)

### EXISTING SITE PLAN

#### LEGEND

- 1 EXISTING BUILDING
- 2 BUS LOOP
- 3 SERVICE
- 4 PLAY AREAS
- 5 PARKING
- 6 ATHLETIC FIELDS

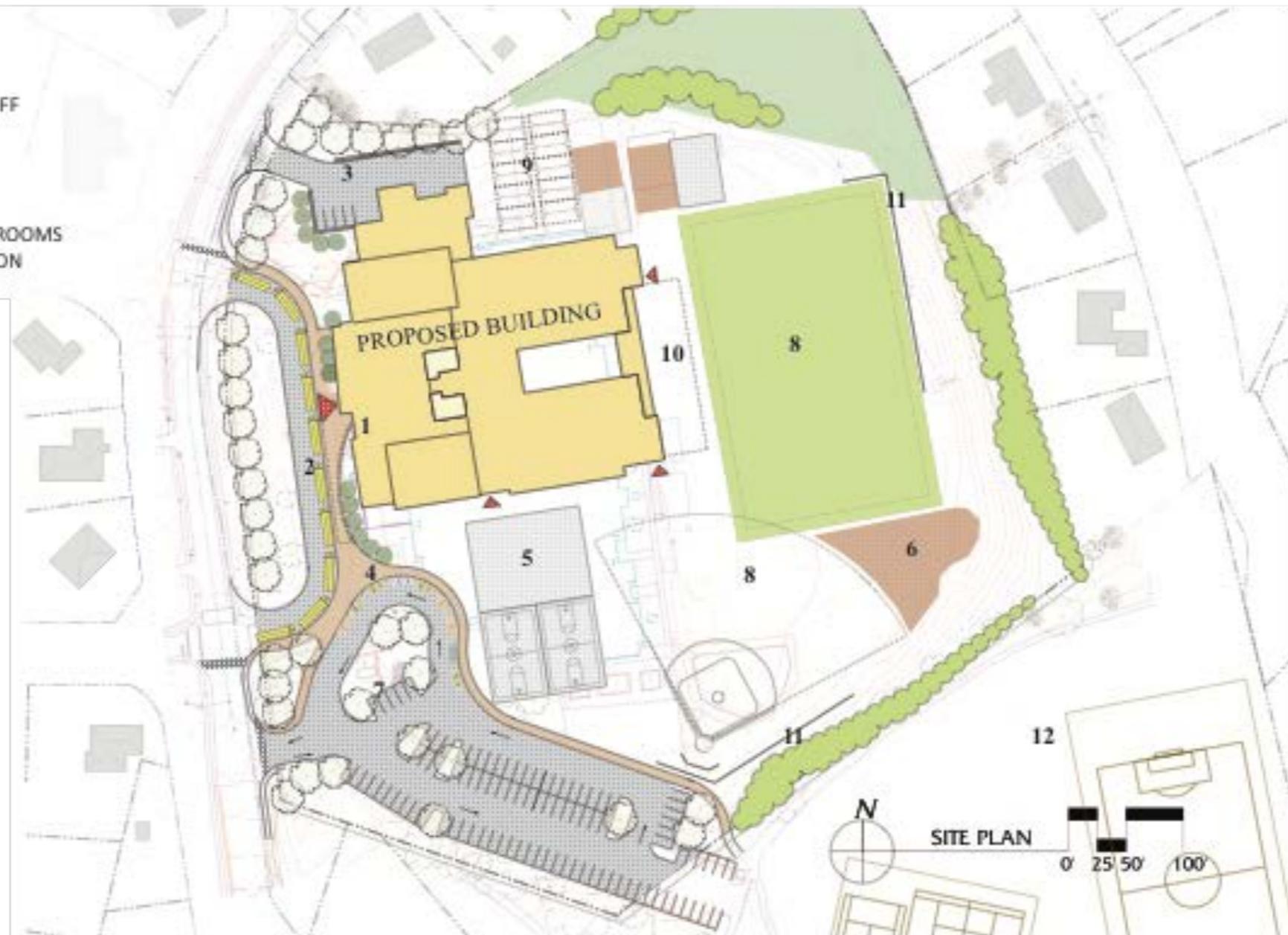


## V. DESCRIPTION OF OPTIONS (CONTINUED)

### OPTION 1 - SITE PLAN

#### LEGEND

- 1 MAIN ENTRY
- 2 BUS LOOP (11 BUSES)
- 3 SERVICE
- 4 PROPOSED STUDENT DROP-OFF
- 5 PAVED PLAY AREA
- 6 MULCHED PLAY AREA
- 7 PARKING (98 SPACES)
- 8 ATHLETIC FIELDS
- 9 FUTURE RELOCATABLE CLASSROOMS
- 10 FUTURE CLASSROOM ADDITION
- 11 RETAINING WALL
- 12 EXISTING DUFIEF PARK



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## V. DESCRIPTION OF OPTIONS (CONTINUED)

### OPTION ONE ADVANTAGES AND DISADVANTAGES

Design Option One proposes a one/two-story building that maximizes open space and provides the best layout for the bus and car drop-off areas.

#### Advantages

- Minimizes building footprint
- Proper solar orientation for classroom wing
- Good proximity of park and school playgrounds
- Compact interior circulation
- Three courtyards
- Independent service access
- Minimum impact on adjacent neighbors
- Highly efficient bus loop
- Support rooms are all off courtyard for daylighting
- Consolidates fields & playgrounds for ease of supervision
- Parking is close to playgrounds for after-hours use
- Hard surface play areas near student drop-off for before school arrival and line-up

#### Disadvantages

- Parking not close to main entrance
- MPR and Gym are far apart
- Main entrance in shadow until late afternoon
- Difficult to construct future wing (if not built initially)

## V. DESCRIPTION OF OPTIONS (CONTINUED)

### OPTION 2 - SITE PLAN

**LEGEND**

- 1 MAIN ENTRY
- 2 BUS LOOP
- 3 SERVICE
- 4 PROPOSED STUDENT DROP-OFF
- 5 PAVED PLAY AREA
- 6 MULCHED PLAY AREA
- 7 PARKING
- 8 ATHLETIC FIELDS
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## V. DESCRIPTION OF OPTIONS (CONTINUED)

### OPTION 3 - SITE PLAN

**LEGEND**

- 1 MAIN ENTRY
- 2 BUS LOOP
- 3 SERVICE
- 4 PROPOSED STUDENT DROP-OFF
- 5 PAVED PLAY AREA
- 6 MULCHED PLAY AREA
- 7 PARKING
- 8 ATHLETIC FIELDS
- 9 FUTURE RELOCATABLE CLASSROOMS
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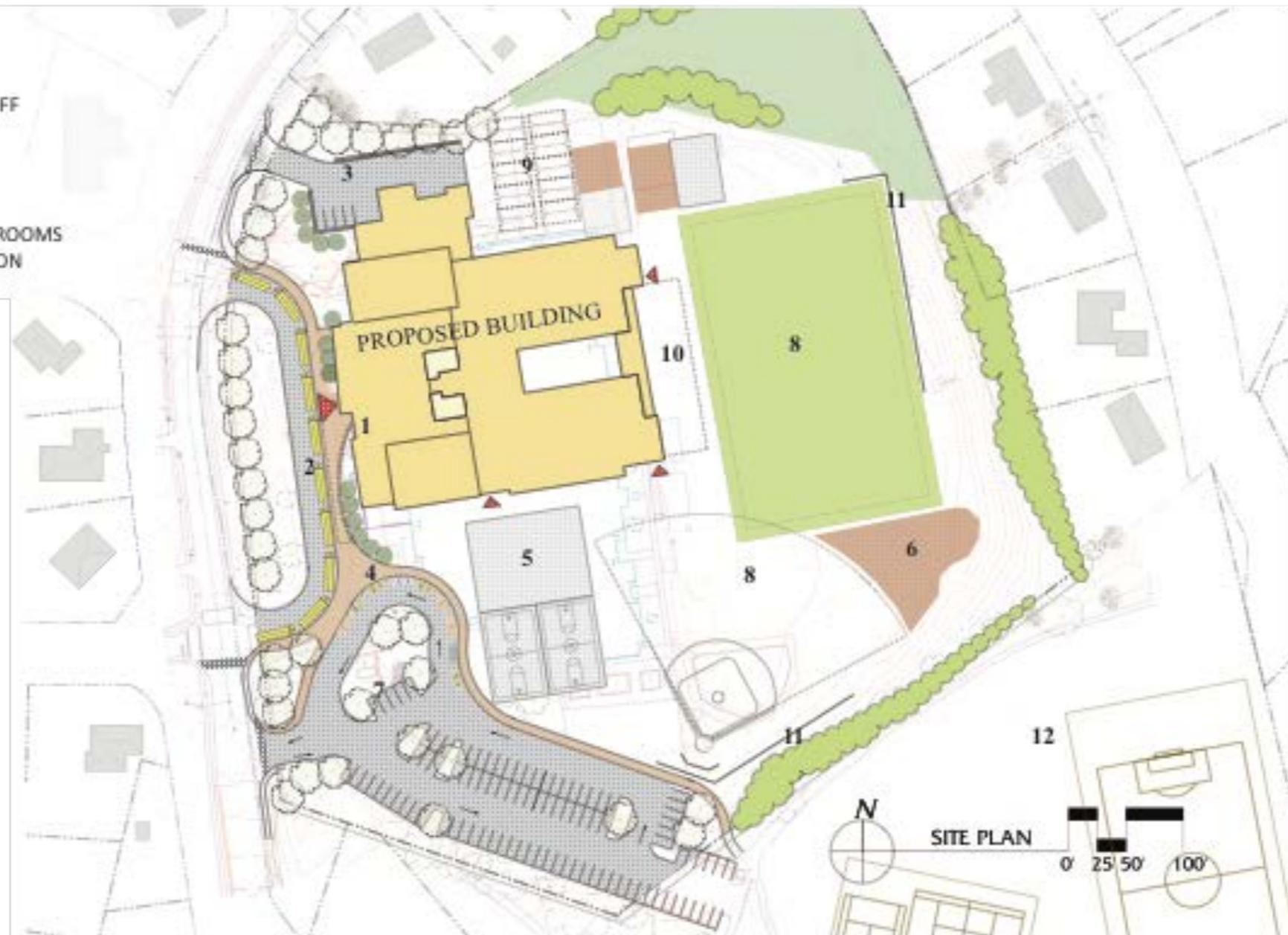


## V. DESCRIPTION OF OPTIONS (CONTINUED)

### OPTION 1 - SITE PLAN

#### LEGEND

- 1 MAIN ENTRY
- 2 BUS LOOP (11 BUSES)
- 3 SERVICE
- 4 PROPOSED STUDENT DROP-OFF
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# Overall Site Plan

architecture  
 planning  
 interiors

**WMCRP**  
115 CENTERWAY GREENBELT MARYLAND 20770  
 301-459-9500

**DUFIEF ELEMENTARY SCHOOL**  
 15001 DUFIEF DRIVE  
 GAITHERSBURG, MARYLAND 20878

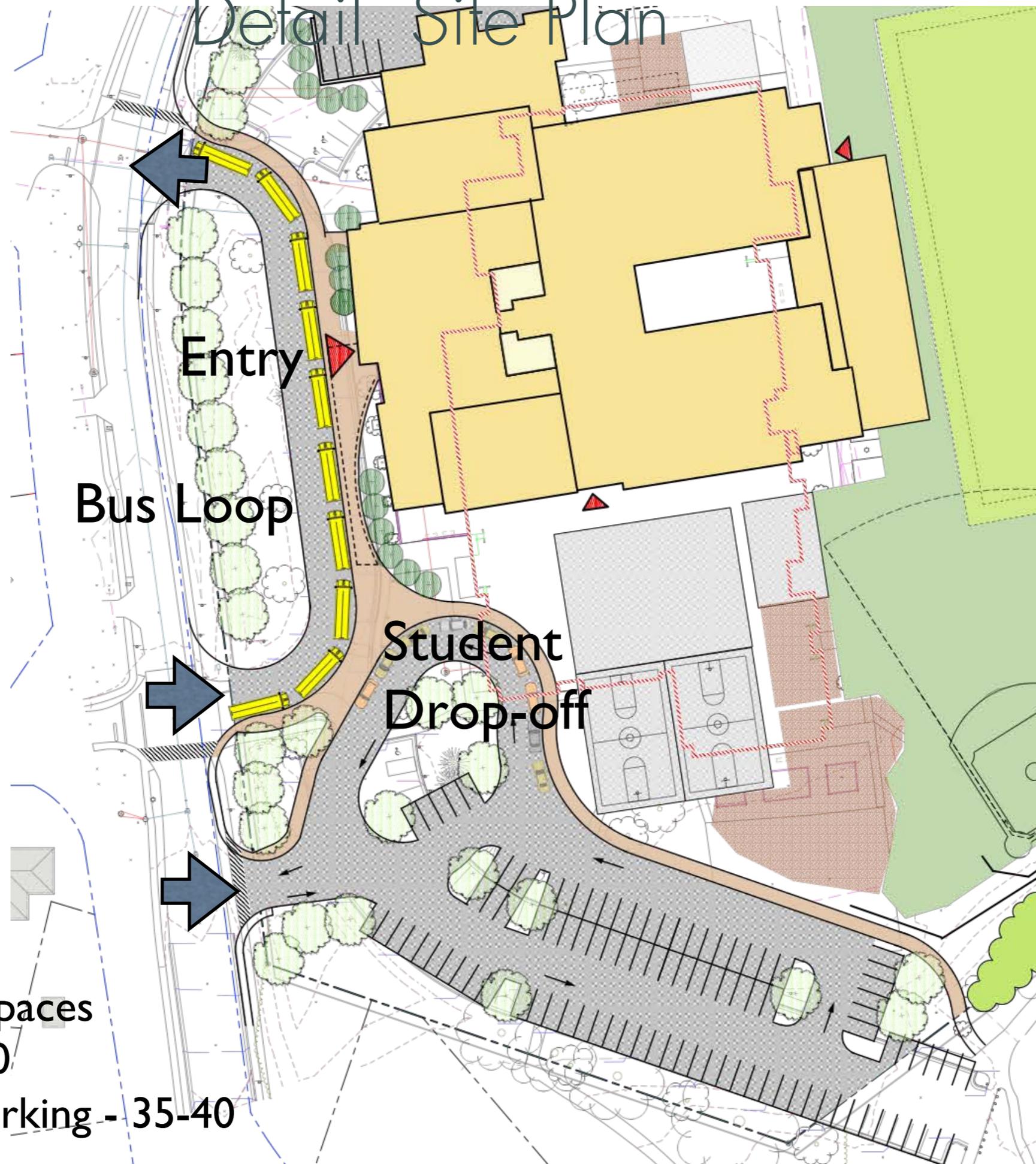


PROFESSIONAL CERTIFICATION  
 I CERTIFY THAT THESE DOCUMENTS WERE  
 PREPARED OR APPROVED BY ME, AND THAT I AM  
 A DULY LICENSED PROFESSIONAL ARCHITECT  
 UNDER THE LAWS OF THE STATE OF MARYLAND.  
 LICENSE NO. 3660 EXPIRATION DATE:

PROPOSED  
 SITE PLAN

REVISIONS:	DATE:
	11/2015
	CONTRACT NO.:
	1502

# Detail Site Plan



Entry

Bus Loop

Student Drop-off

Parking - 100 Spaces

Bus Loading - 10

After-Hours Parking - 35-40







LUCY V BARNESLEY ELEMENTARY SCHOOL

14516



NO STOPPING ANY TIME



BOOK FAIR!

BOOK FAIR!

# Detail Site Plan











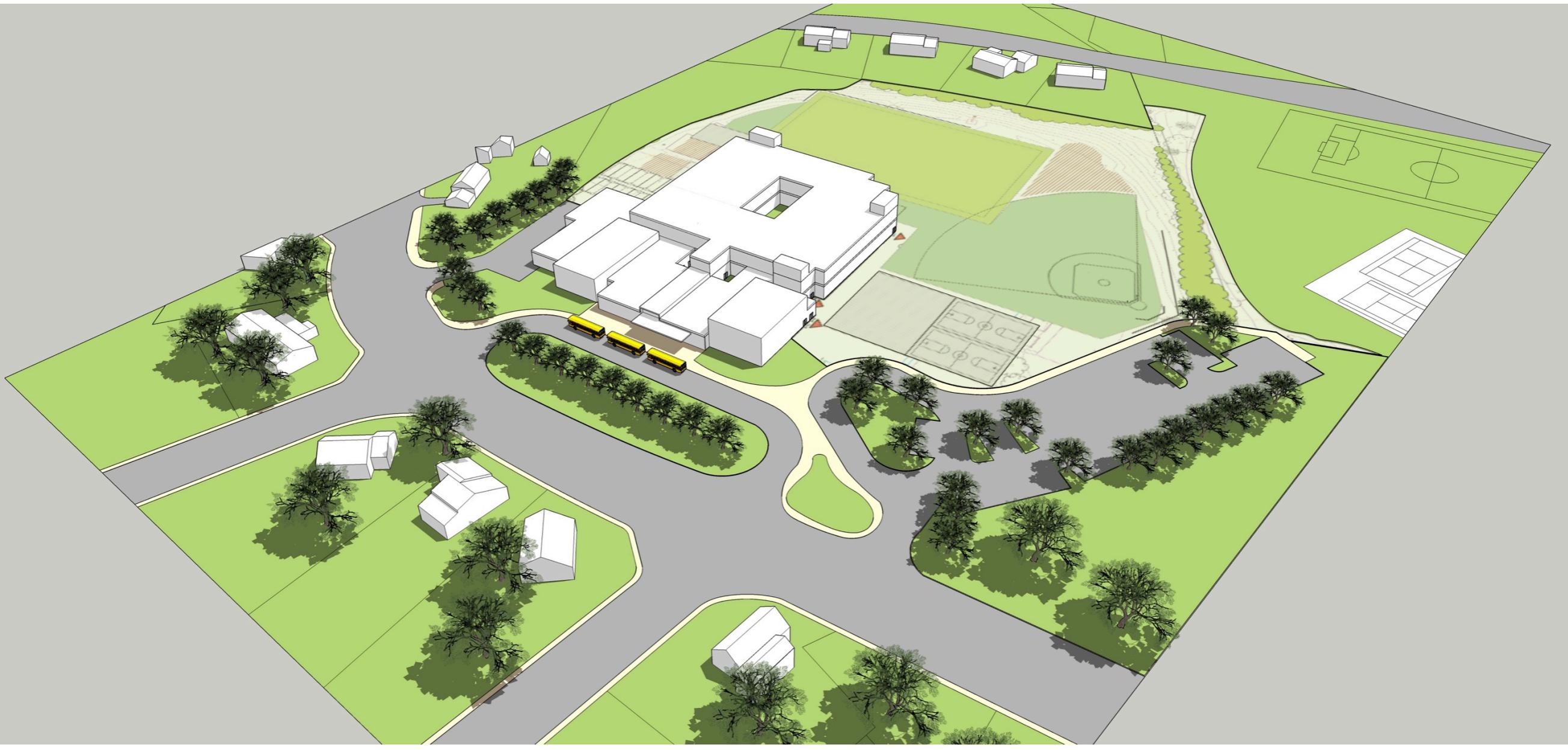
Rock Creek Forest Elementary  
School



Use of collaborative spaces



# Building Massing Model

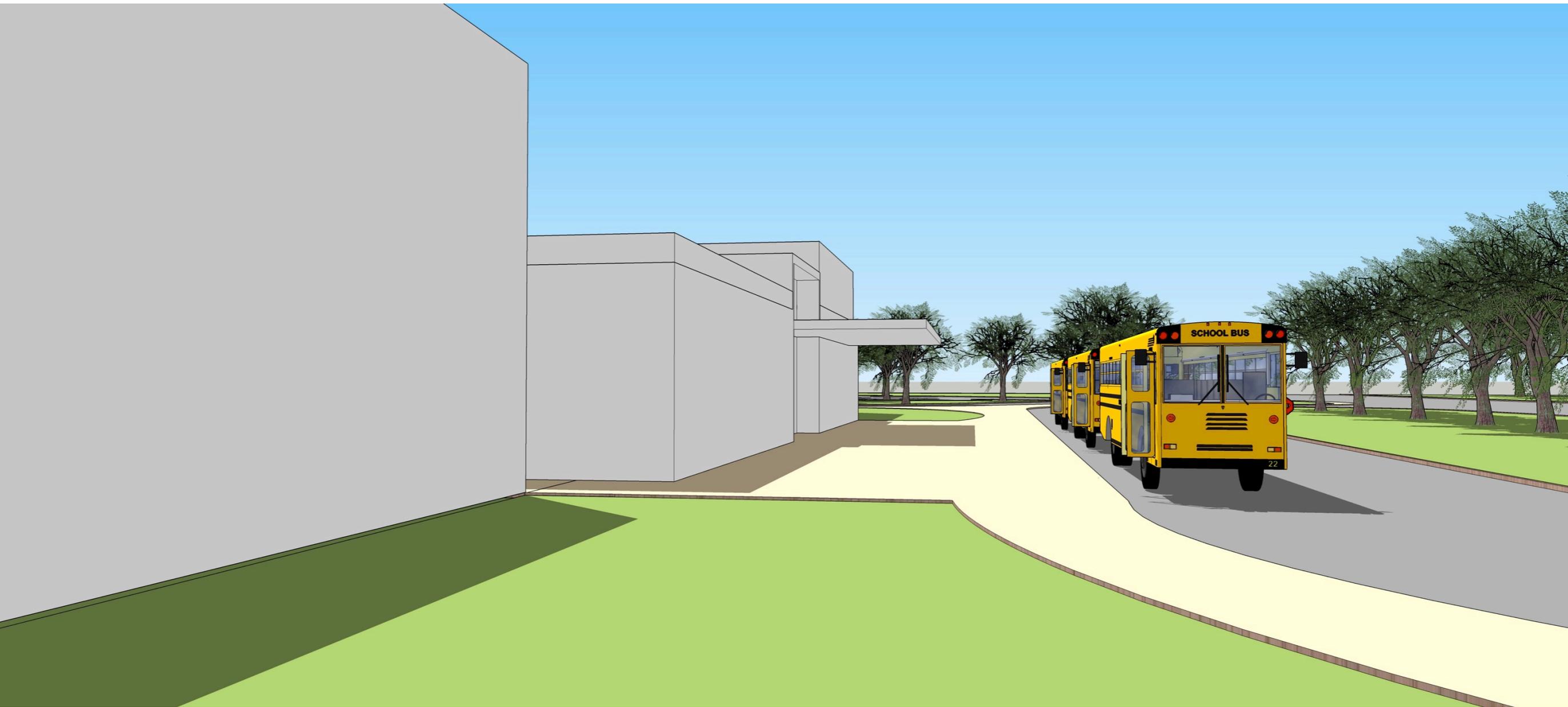


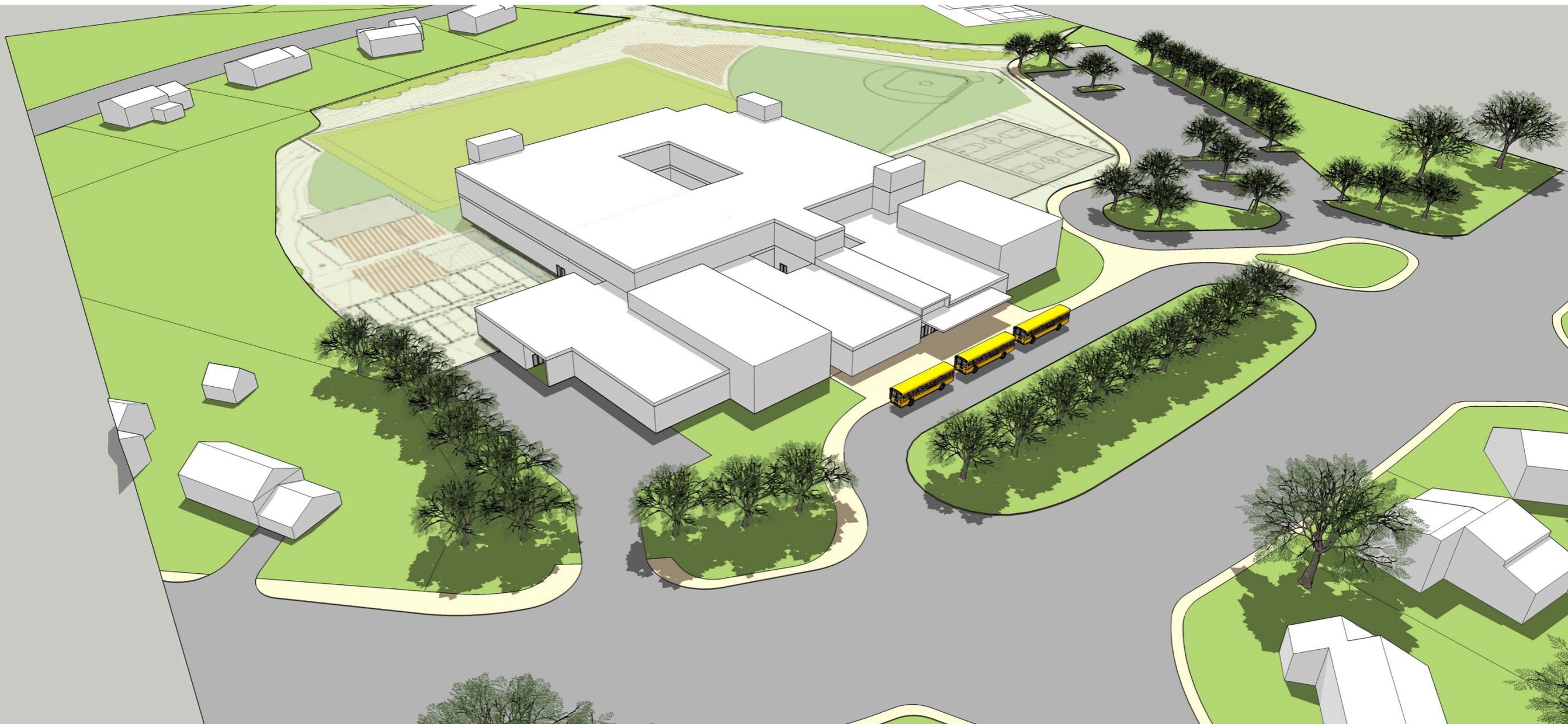










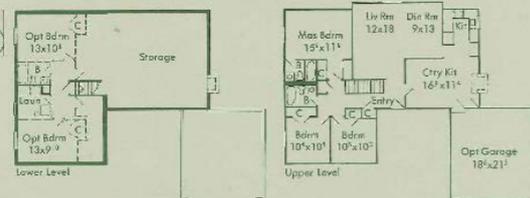


School Signature

# History of DuFief



# Knollwood



Open inside from floor of the Knollwood, you may never want to leave home. The entire expanse of interior space is open, cool for maximum living convenience. The central entry hall with closet leads

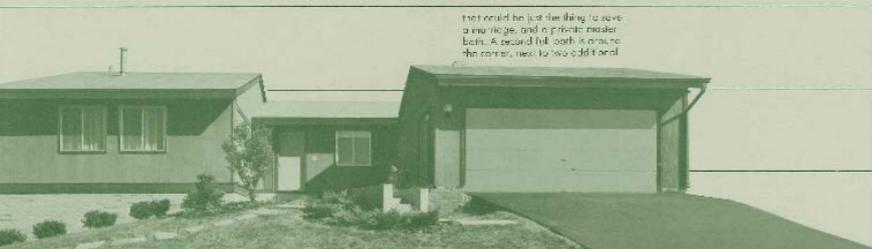
to living. The kitchen puts everything at your finger tips, including a built-in steel sink, dishwasher and disposal, two integral freestanding stoves, the family room is right in front. Whether Mom's practicing the latest

bedrooms. Downstairs, expandable space may be finished into fourth and fifth bedrooms, or reflect on room, now or in the future, and a third full bath and enough space left over for a workshop and pool table. Comfortably air conditioned,

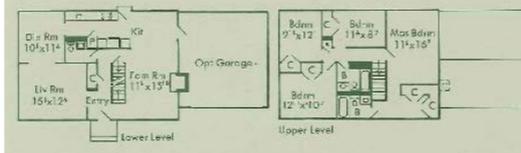
directly to the bedroom area. To the exterior, a rear, into the country kitchen, or straight ahead to the generously windowed living and dining rooms. A garbaged ceiling adds to the light, airy

you'll find delight on Dad and the kids, creating an ultimate family escape for entertaining guests or hosting a business meeting. A second master bedroom is a feature double closets

that couldn't be just at the living to save a little space, and a private master bath. A second full bath is another the corner, next to two additional



# Parkwood



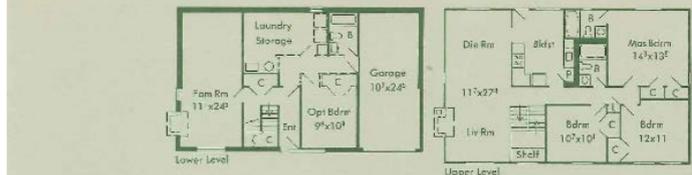
Plenty of places to live it up have been built into the Parkwood. Along with generous design and storage space to satisfy the most discerning homeowner or the most exacting Fisher McGee. A grand

the room no matter you need only flip a switch on the 82 of electricity will clean your oven, up to 10, the two bedrooms all feature oversized closets. The master suite includes a his-and-hers pair, plus a private

reference room for guest closets and a built-in powder room. Guests may be charged up quickly into the family room or into the formal living/dining room for a private retreat of front discovery. The 1 1/2 steps

to the second floor is a surprise. The second full bath is not the remaining two rooms for such a convenient of four bedrooms, or a private double, or all the paraphernalia for a sewing

room. A full basement provides plenty of space for laundry, storage, work space, and the play-space table. An conditioned or more



Floor to ceiling windows abound in the finished Sun Room, giving the sun shine in and the rain shine out. It's the walk lower level entry leads readily into the family room where teenagers can be comfortably at the bridge club or on motorcycles with dad. A double hall closet holds coats, hats, and overalls with room to spare. And for spare rooms to come, the room for an optional fourth bedroom and third full bath, laundry and storage facilities are right there too.

# Springwood

and down the hall, direct access to an outside garage. Once you park your big American made, you'll still have room for a couple of scooters or half a lawn mower. On the way upstairs, your favorite first

order will discover the perfect spot for a new room. To the average odd it's simply great, and it's a storage. The upper level opens up to a 20' foot or so central ceiling, dramatically lighting a precious living

and dining room that invites romantic candlelight dinners as well as intimate, late-night gatherings. Break out in front of a great view in your convenience packed, paneled kitchen. Down the hall, on

a total square master bath, a pair of closets makes it easy to slip away for a nap. Second and third bedrooms have ample closet space and their own full bath. Air conditioned, because you prefer it that way.



## Lord DuFief

One could imagine this French nobleman stepping out of a Renoir canvas. He would be dressed in the fashion of the day wearing a mustache or beard, a stovepipe hat worn jauntily above the high collar. He was a man of confidence in the society of Brittany, a civic father in the port city of Nantes, where the Loire empties into the Bay of Biscay 250 miles southwest of Paris.

Nicholas Henri Gouin, Lord du Fief, was a Royalist and, with his wife, Victoire Aimee Libault Gouin du Fief, would remain a Royalist beyond the French Revolution. In 1798, Victoire would lead a rebellion of Royalists against the new order. For this she would become the first and only woman to be awarded the Ribbon of the Order of St. Louis by His Majesty Louis XVIII, the younger brother of Louis XVI, husband to the extravagant Marie Antoinette, and the Monarch who saw France become a Republic.

The du Fief (du, meaning "of," fief, according to Webster's, "the right to own land under the feudal system," hence "fiefdom") family must have found life uncomfortable supporting, as they did, a losing cause. Thus they set out for America, apparently with an extended family which included their son, Cherubim, born in Nantes in 1786. Little is known of Cherubim's life, although it would appear from material gathered by the Montgomery County Historical Society, that his father, Nicholas did quite well in America.

He developed a system of French language instruction documented in a text, "Nature Displayed in Her Mode of Teaching Language to Man," a French-English dictionary, and a dictionary of pronunciation. During this time the du Fiefs settled in Georgetown (although they may have spent some time in New Orleans), and on June 14, 1817, Cherubim's son, John Lawrence, was born.

## John Lawrence DuFief

John Lawrence DuFief, (apparently the spelling had become thus at some point) became a builder. He also dabbled in architecture, designing houses for friends. In about 1850, he had a windfall. A rich aunt, Mary DuFief Fowler, of New Orleans, died leaving him enough money for him to buy property above Turkey Foot Road and below what is now Route 28. John Lawrence DuFief, who had married Catherine Amelia Talbot, of Prince George's County in 1847, moved to his newly purchased farm with his wife and two children in 1853.

DuFief designed and built a sparkling new home, Millwood which stood until 1941. Within 10 years he owned more than 1,100 acres in this area, making him one of the largest land owners in the county. (Land in this area at that time probably ranged between \$5 and \$15 an acre. Incidentally, the name of his primary holding here was "Mt. Pleasant." Others were "Treble Trouble," "James," "Mt. Prospect," "Piney Grove," and "Hartley Hall.") There was also a mill. In the Montgomery Sentinel" of January 5, 1866, DuFief said the mill was "50 feet by 60 feet, four stories high, slate roof...capable of manufacturing from 10,000-12,000 barrels of flour annually." Millwood was a "3-story brick mansion, 30 by 36, containing nine rooms and cellar, with verandah, eight feet wide round the entire house." The property boasted two dairies, an ice house, meat house, workshop, two barns, three tenant houses and a "fine thrifty young orchard of peaches and apples..."

John Lawrence DuFief had eight children. After selling some of his land in 1866, DuFief apparently stayed in the area. Upon his death on March 26, 1877, services were held at St. Rose's Catholic Church in Rockville. His body was interred in Oak Hill Cemetery in Georgetown.

### MILLS

Water-powered mills were established throughout the county. As tobacco farming began to wane, in the late 1700s, and the wheat trade picked up, gristmills and flourmills began to flourish. In addition, saw mills and woolen mills were built. **Black Rock Mill** (1815) is a rare surviving example of the fifty or more water powered mills that were once vital to Montgomery County farmers and residents. A wooden undershot water wheel harnessed the water-power of Seneca Creek to grind wheat and corn, using three sets of millstones, and to cut lumber, with a circular saw blade. The flour or gristmill was mainly used following harvests, while the sawmill operated year round. Lumber sawed at Black Rock Mill was used to build the Liberty Mill, a steam operation in Germantown, which ironically helped put Black Rock Mill out of business.

After the opening of the C & O Canal, a network of roads, warehouses, and grain elevators connected mills with canal traffic to Georgetown. A prime example was the DuFief Mill, established about 1850 on the Muddy Branch. John L. DuFief built a flour and grist mill, miller's house, and blacksmith shop, and created a road connecting the complex with the canal's Pennyfield Lock, where he operated a warehouse, barrel house, and wharf. The four-story mill structure was fifty by sixty feet and capable of manufacturing 10-12,000 barrels of flour a year. Once this merchant mill was established, a network of roads grew to provide access for farmers as far away as Gaithersburg, Germantown, and Damascus. The **Dufief Mill Site**, found in the Muddy Branch Regional Park on both sides of Turkey Foot Road, includes the stone millpond dam and wooden footings of the head-race aqueduct.

Of the many mills that once stood in Montgomery County, few are represented by actual remains. One of the best preserved is **Hyattstown Mill**, built in 1815. The deteriorating ruins of **Clopper's Mill** on the Clopper Roads may still be seen today.



...county grew tobacco.<sup>18</sup> The early 1800s coincides with con- 83, there were about 25 mills the 50 mills, of which some 38 inued to be a principal crop own in central Maryland than side of Kansas and South  
 ...tices and agricultural reform county. The practice of one- uts from the soil throughout n-out soil forced many farm- farmland. Others began to iversified crops, and mecha-

He was born at Harewood, where he later resided with his wife Ann Paterson Gilpin.

# Schedule

smartsheet

## DuFief Elem School Schedule

2019 2020 2021 2022

Task Name	Duration	Start	Finish	2019				2020				2021				2022			
				Q1	Q2	Q3	Q4												
1 <b>Dufief Elementary School</b>	3d	08/09/19	08/13/19																
2 Notice to Proceed	1d	08/09/19	08/09/19																
3 MPCS Kick-off Meeting	1d	08/12/19	08/12/19																
4 Submit Project Schedule	1d	08/13/19	08/13/19																
5 <b>Schematic Design Phase</b>	129d	09/09/19	03/05/20																
37 <b>Design Development Phase</b>	162d	01/03/20	08/17/20																
77 <b>Construction Document Phase</b>	370d	05/15/20	10/14/21																
132 <b>Bidding and Negotiations Phase</b>	118d	10/02/20	03/16/21																
143 Construction Mobilization	20d	02/24/21	03/23/21																
144 Civil/Site Work Construction	288d	02/24/21	04/01/22																
145 Building Construction	365d	02/24/21	07/19/22																
146 Opening/Move-in	30d	07/20/22	08/30/22																

# Questions and Answers