

# WILLIAMSBURG MIDDLE SCHOOL CAPACITY & EXPANSION STUDIES

FINAL DESIGN REPORT

February 19, 2016

#### **EXECUTIVE SUMMARY**

The following pages constitute a final design report for renovations and additions to Williamsburg Middle School(WMS). The current task at hand has been a capacity study to identify if additional seats are available for students within the current building footprint and are feasible within the current middle school model. Unlike changes at the high school level, additional capacity must be gained within the middle school team scenario by adding capacity for additional team space, not by moving teachers from classrooms during work periods. WMS is currently well utilized under that model. However, the following design options illustrate ideas to increase capacity by updating non-classroom spaces such as administration, the gymnasium, and cafeteria. There is a long-term benefit achieved through these modifications to the school and its ability to fluidly adapt to changing student population. There was a concentrated effort to bring spaces that are part of this study in line with current Arlington Public Schools(APS) Educational Specifications.

The redesign of the administration area will allow for additional classroom capacity to be gained. Additionally, it increases security and energy reductions by creating a vestibule at the front door that enters into the reception area and allows screening to be done before visitors enter the building proper. All administrative personnel are collected into this new design, and offices are correctly sized for their intended uses. The design also incorporates chases for tubular skylights to be directed down through the first floor in order to daylight improvements to the crawlspace/dirt rooms below. The gymnasium and locker rooms spaces have been studied and reorganized. By deleting unused shower spaces and consolidating several various storage spaces, the new conceptual design allows for an increased locker count (with room for future expansion by adding another top tier row of lockers), and increases the restroom capacity for the school. This new configuration resulted in the addition of two new medium sized classrooms. The new gym space concept also envisions the gym as a flexible whole school event space with a moveable stage and black box theater rigging. A revised cafeteria concept moves extended day office and storage space to a new room within the crawlspace footprint adjacent to 2 new gang bathrooms for student use. This should allow for an increased table count in the cafeteria. This proposal also includes an option for covered outdoor dining area immediately to the south of the cafeteria. This anticipates a relatively cost-effective free-standing roof structure over the designated area. This would increase student seating options to the outdoors.

Additional expansion concepts shown on the existing conditions plan identify the auditorium and adjacent spaces as underutilized but requiring a much larger and extensive redesign and impact to the building structure. Other spaces identified include reorganization of smaller classroom or office spaces into mid-sized classroom spaces, adding a small addition to seating capacity.

Current classroom capacity and size was evaluated against current APS Ed Specs and found to be generally in compliance with capacity requirements. A table within illustrates those findings. A conceptual cost estimate has been done and included herein identifying the work within the various options included. The cost estimate was done anticipating work to be completed for the fall semester of the 2017 school year. This estimate also includes a cost for a second story addition to the south wing of the school, increasing capacity by six classrooms. Note this 1990's addition (not by VMDO) was structurally designed to accommodate a second story. No architectural drawings are included herein for that work.

Finally, this book is meant to serve as a record of previous studies and designs that VMDO has completed for WMS. The appendix contains those prior studies as well as the meeting minutes and iterative design proposals completed for this current study.

#### **Project Construction Cost Summary**

Option	Classrooms Gained	Seats Gained	Cost
North Hall Option 1	1	24	\$1,827,014.00
North Hall Option 2	1	24	\$1,608,620.00
Gym and Lockers	2	48	\$1,923,472.00
Dirt Room Option 1	N/A		\$338,100.00
Dirt Room Option 2	N/A		\$986,174.00
Cafeteria Option 1 Note: This increase is for seating capacity, not enrollment capacity.	N/A	88	\$64,015.00
Second Floor Classroom Addition Option 1	6	144	\$4,153,839.00
Total	10	328	\$10,901,234.00

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**EXISTING CONDITIONS** 

NORTH HALL / ADMINISTRATION

**GYMNASIUM** 

**LOCKER ROOMS** 

DIRT ROOM / CRAWLSPACE

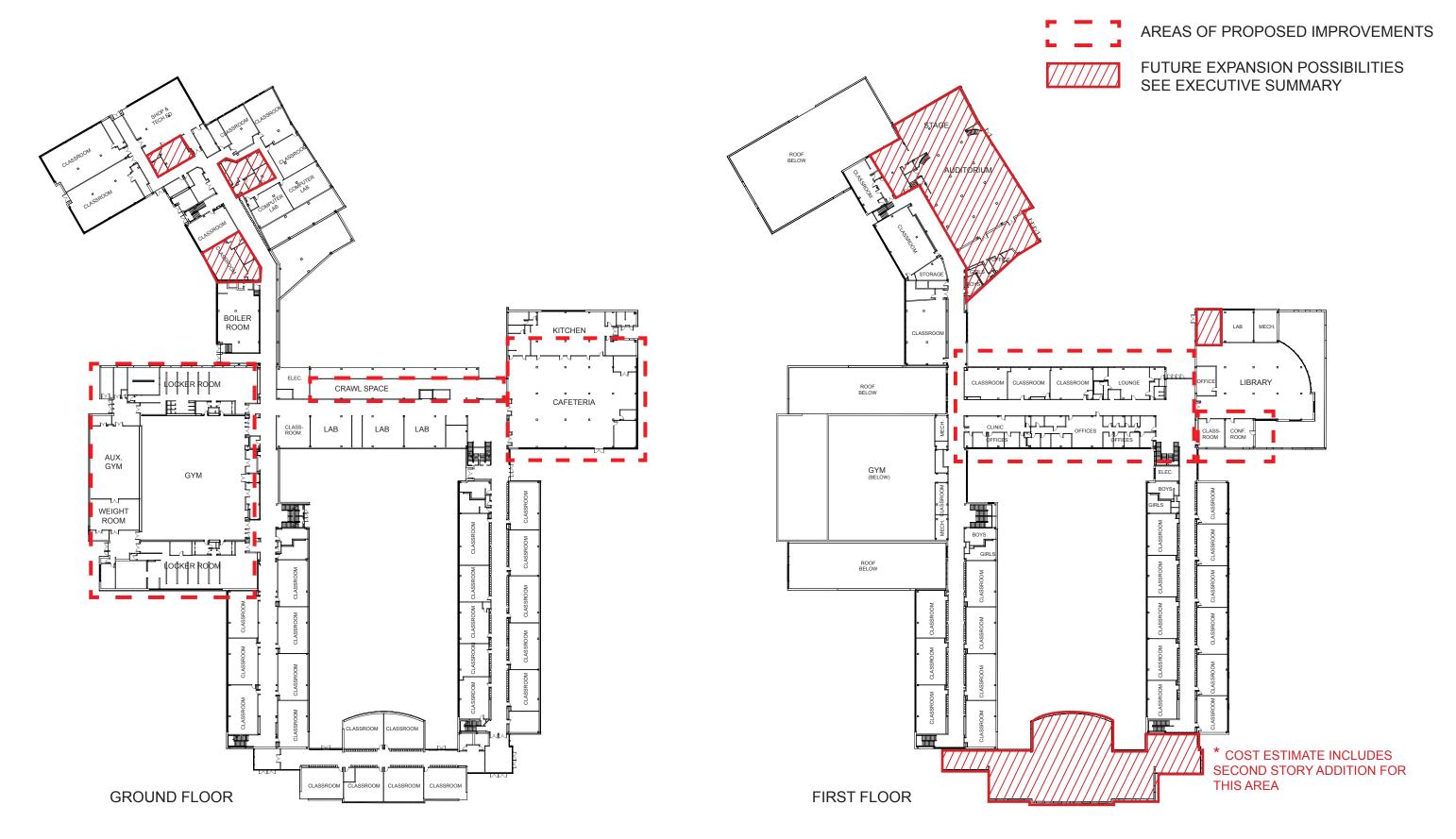
**CAFETERIA** 

**CLASSROOM CAPACITY ANALYSIS** 

FFBRUARY 19 2016

**COST ESTIMATE** 

**APPENDIX** 



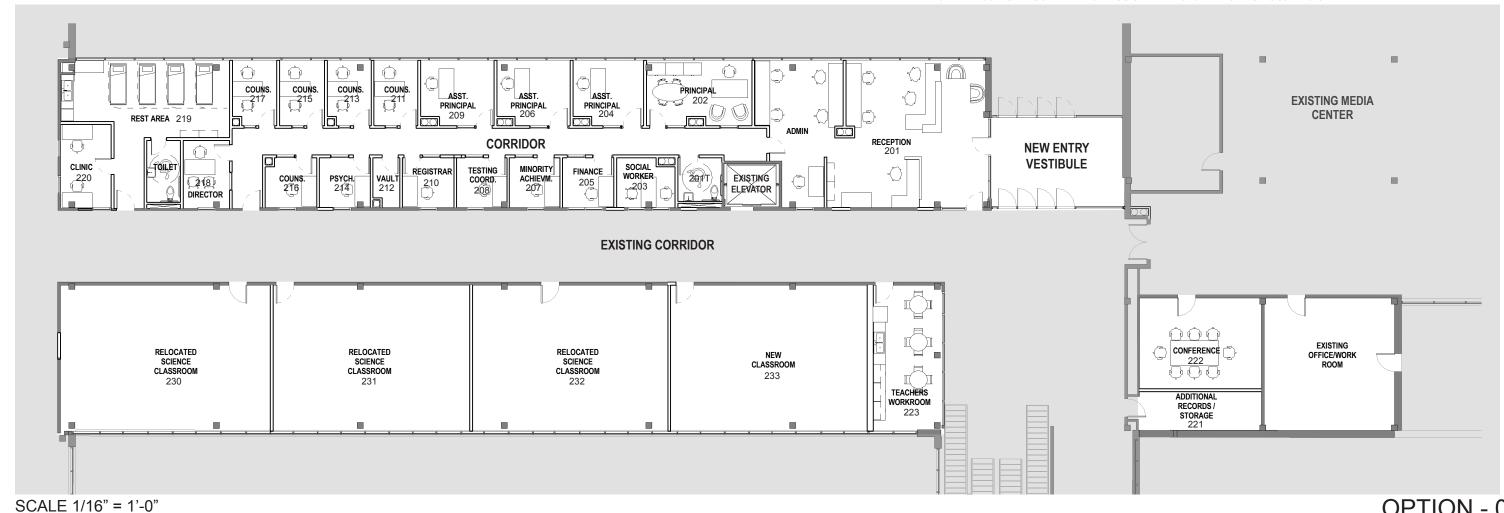
NOT TO SCALE

**EXISTING CONDITIONS** 



Room #	Current Room	Existing SF CAD	New Room	Proposed SF	Ed. Spe
			Entry Vestibule	324	N/A
201	Lounge	620	Reception/ Admin.	895	600
	Lounge Office West	111		0	N/A
	Lounge Office East	110		0	100
201T	Admin Toilet West	66		46	65
	Admin Toilet East	74		0	65
202	Principal	156		180	200
203	Social Worker			75	120
204	Assistant Principal			120	120
205	Finance Office			70	100
206	Assistant Principal			120	120
207	Minority Achievement			70	120
208	Testing Office			70	120
209	Assistant Principal			120	120
210	Registrar			70	120
211	Counselor Office			78	100
212			Vault	35	100
213	Counselor Office			78	100
214	Psychologist			70	120
215	Counselor Office			78	100
216	Counselor Office			70	100
217	Counselor Office			78	100
218	Director			87	120
219	Clinic Rest Area			375	200
219T	Clinic Toilet			59	65
220	Clinic Office			115	100
221	Records/ Storage	120		122	100
222			Conference Room	240	200
223			Teacher Workroom	264	1000
230*	Classroom	764		785	900
231*	Classroom	738		785	900
232*	Classroom	762		785	900
233			Classroom	785	900
234	Existing Workroom	935		550	700-75

NOTE: NEW ROOM NUMBERS GENERATED FOR THIS STUDY. THEY DO NOT REFLECT EXISTING CONDITIONS.



OPTION - 01



Room #	Current Room	Existing SF CAD	New Room	Proposed SF	Ed. Spec.	
			Entry Vestibule	324	N/A	
201	Lounge	620	Reception/ Admin.	895	600	
	Lounge Office West	111		0	N/A	
	Lounge Office East	110		0	100	
201T	Admin Toilet West	66		46	65	
	Admin Toilet East	74		0	65	
202	Principal	156		180	200	
203	Social Worker			75	120	
204	Assistant Principal			120	120	
205	Finance Office			70	100	
206	Assistant Principal			120	120	
207	Minority Achievement			70	120	
208	Testing Office			70	120	
209	Assistant Principal			120	120	
210	Registrar			70	120	
211	Counselor Office			78	100	
212			Vault	35	100	
213	Counselor Office			78	100	
214	Psychologist			70	120	
215	Counselor Office			78	100	
216	Counselor Office			70	100	
217	Counselor Office			78	100	
218	Director			87	120	
219	Clinic Rest Area			375	200	
219T	Clinic Toilet			59	65	
220	Clinic Office			115	100	
221	Records/ Storage	120		122	100	
222			Conference Room	240	200	
223			Teacher Workroom	264	1000	
230*	Classroom	764		785	900	
231*	Classroom	738		785	900	
232*	Classroom	762		785	900	
233			Classroom	785	900	
234	Existing Workroom	935		550	700-750	

\* Classroom was moved.

NOTE: NEW ROOM NUMBERS GENERATED FOR THIS STUDY. THEY DO NOT REFLECT EXISTING CONDITIONS.

ASST. PRINCIPAL ASST. ASST. TESTING COORD. COUNS. COUNS. COUNS. COUNS. COUNS. PRINCIPAL PRINCIPAL FINANCE 217 216 209 206 204 208 205 **REST AREA** 219 **EXISTING MEDIA** RECEPTION **NEW ENTRY** CORRIDOR CENTER  $\bigcirc$ 201 VESTIBULE CLINIC 220 DIRECTOR 218 MINORITY ACHIEVM. 207 VAULT 212 PRINCIPAL 202 SOCIAL WORKER 203 EXISTING REGISTRAR 210 PSYCH. 214 ELEVATOR **EXISTING CORRIDOR** RELOCATED RELOCATED RELOCATED CONFERENCE NEW **EXISTING** SCIENCE CLASSROOM SCIENCE CLASSROOM SCIENCE CLASSROOM CLASSROOM 222 OFFICE / WORK ROOM 234 233 TEACHERS ADDITIONAL RECORDS / WORKROOM 223 STORAGE

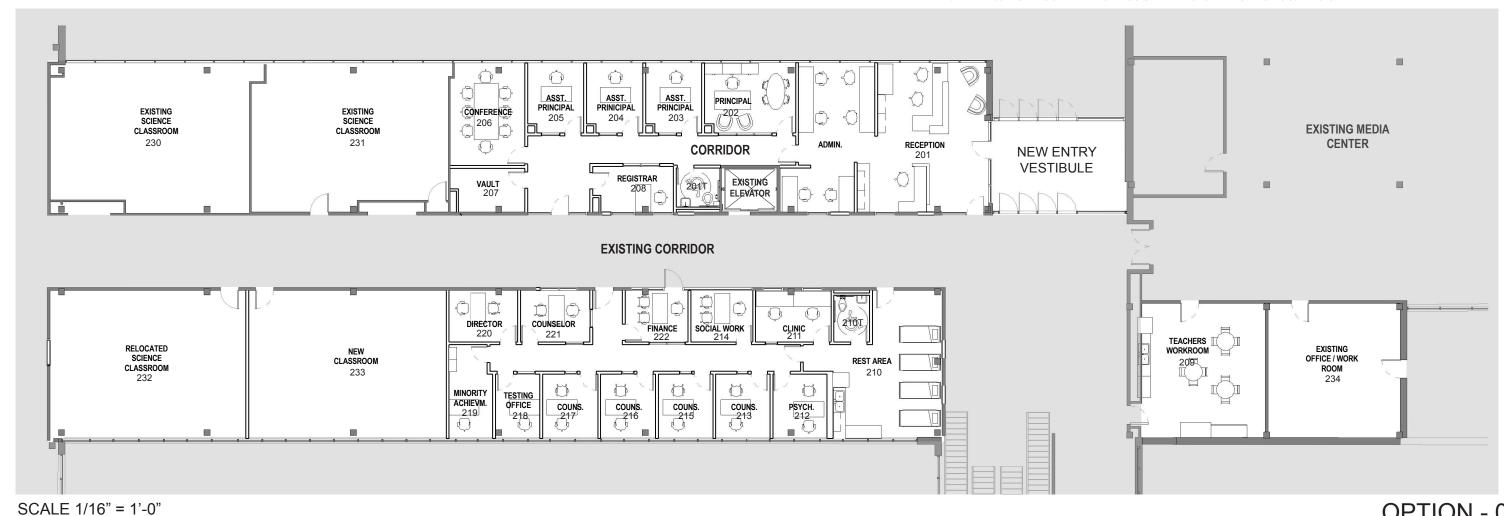
SCALE 1/16" = 1'-0" NOTE: THIS OPTION RELOCATES THE PRINCIPLES OFFICE TO THE CORRIDOR FOR STUDENT ACCESS.

OPTION - 01A



Room #	Current Room	Existing SF CAD	New Room	Proposed SF	Ed. Spec
			Entry Vestibule	183	N/A
201	Lounge	620	Reception/ Admin.	895	600
	Lounge Office West	111		0	N/A
	Lounge Office East	110		0	100
201T	Admin Toilet West	66		46	65
	Admin Toilet East	74		0	65
202	Principal	156		170	200
203	Assistant Principal			105	120
204	Assistant Principal			115	120
205	Assistant Principal			124	120
206	Conference			200	200
207	Records/ Vault	120		85	100
208	Registrar			100	120
209			Teacher Workroom	392	1000
210	Clinic Rest Area			380	200
210T	Clinic Toilet			45	65
211	Clinic Office			105	100
212	Psychologist			90	120
213	Counselor Office			90	100
214	Social Worker			86	120
215	Counselor Office			90	100
216	Counselor Office			90	100
217	Counselor Office			90	100
218	Testing Office			75	120
219	Minority Achievement			100	120
220	Director			95	120
221	Counselor Office			95	100
222	Finance Office			86	100
230	Classroom	764		764	900
231	Classroom	738		738	900
232*	Classroom	762		764	900
233			Classroom	764	900
234	Existing Workroom	935		575	700-75

\* Classroom was moved.
NOTE: NEW ROOM NUMBERS GENERATED FOR THIS STUDY. THEY DO NOT REFLECT EXISTING CONDITIONS.



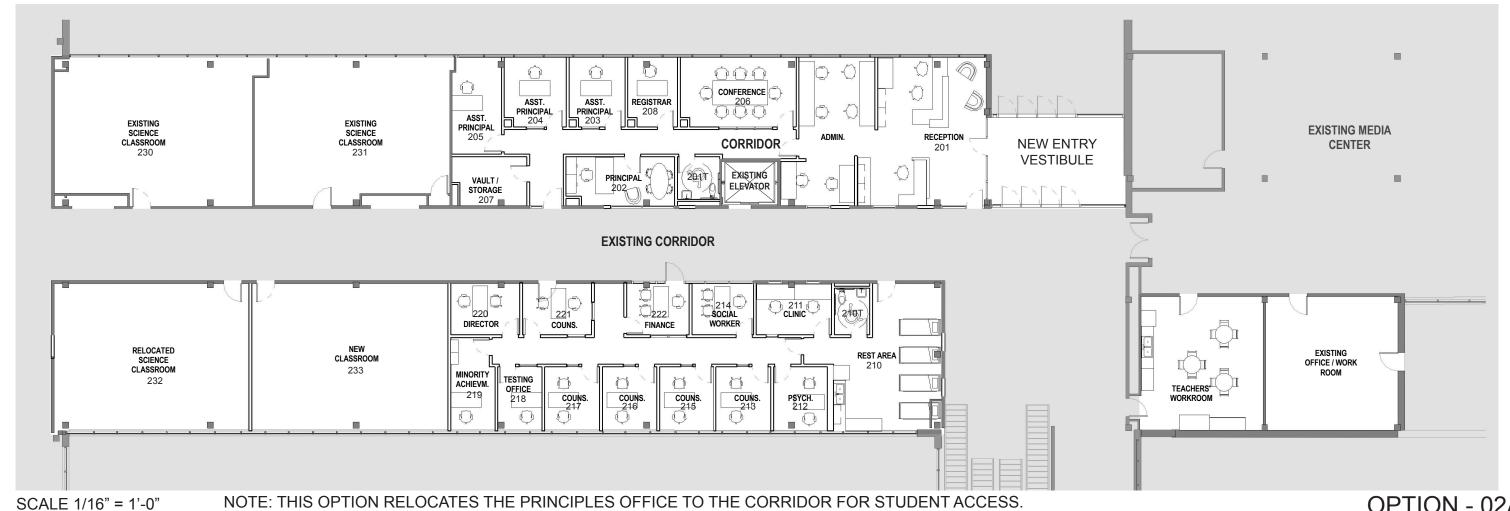
OPTION - 02



Room #	Current Room	Existing SF CAD	New Room	Proposed SF	Ed. Spec.
			Entry Vestibule	183	N/A
201	Lounge	620	Reception/ Admin.	895	600
	Lounge Office West	111		0	N/A
	Lounge Office East	110		0	100
201T	Admin Toilet West	66		46	65
	Admin Toilet East	74		0	65
202	Principal	156		170	200
203	Assistant Principal			105	120
204	Assistant Principal			115	120
205	Assistant Principal			124	120
206	Conference			200	200
207	Records/ Vault	120		85	100
208	Registrar			100	120
209			Teacher Workroom	392	1000
210	Clinic Rest Area			380	200
210T	Clinic Toilet			45	65
211	Clinic Office			105	100
212	Psychologist			90	120
213	Counselor Office			90	100
214	Social Worker			86	120
215	Counselor Office			90	100
216	Counselor Office			90	100
217	Counselor Office			90	100
218	Testing Office			75	120
219	Minority Achievement			100	120
220	Director			95	120
221	Counselor Office			95	100
222	Finance Office			86	100
230	Classroom	764		764	900
231	Classroom	738		738	900
232*	Classroom	762		764	900
233			Classroom	764	900
234	Existing Workroom	935		575	700-750

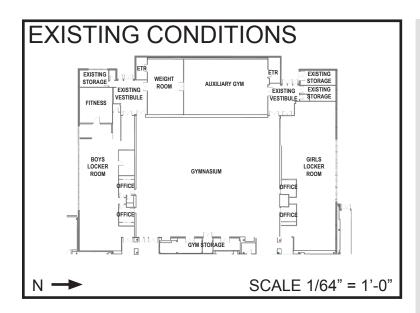
\* Classroom was moved.

NOTE: NEW ROOM NUMBERS GENERATED FOR THIS STUDY. THEY DO NOT REFLECT EXISTING CONDITIONS.

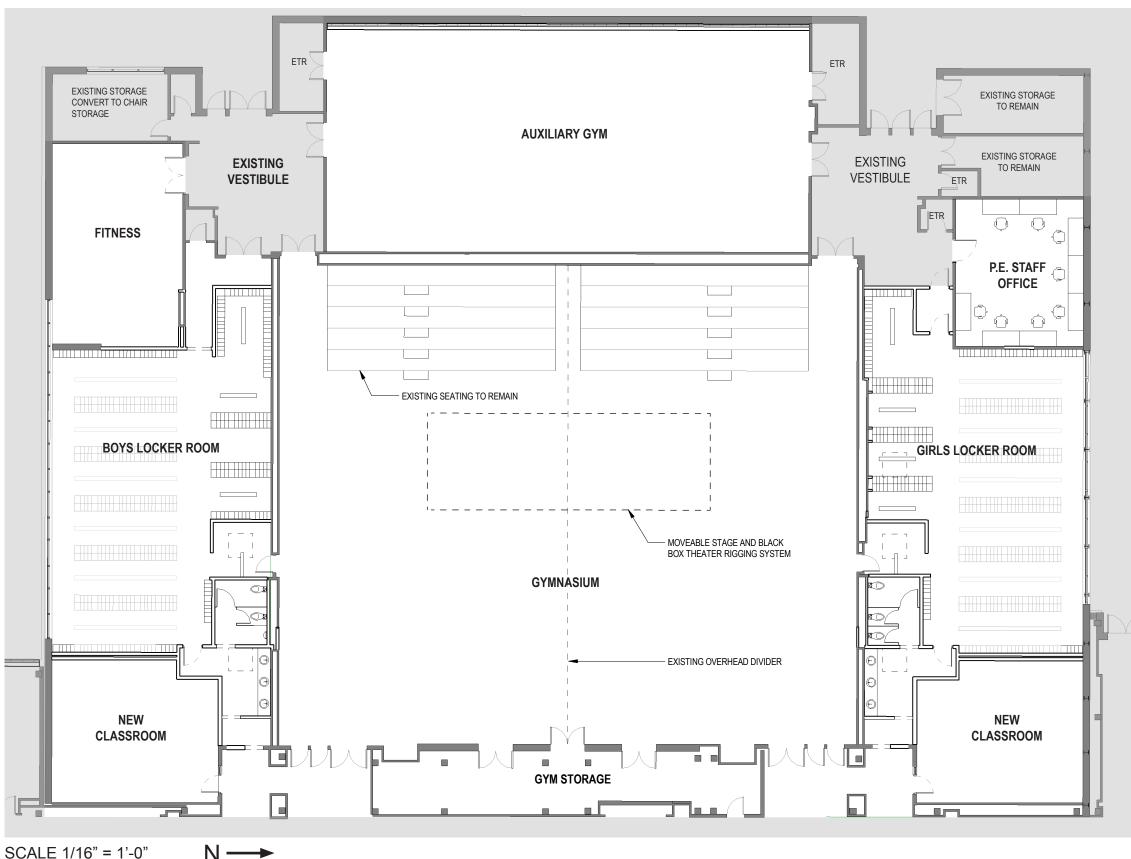


NOTE: THIS OPTION RELOCATES THE PRINCIPLES OFFICE TO THE CORRIDOR FOR STUDENT ACCESS.

OPTION - 02A



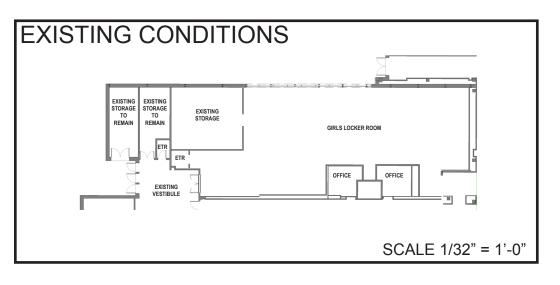
Current Room	Existing SF CAD	New Room	Proposed SF	Ed. Spec.
Auxiliary Gym	2070		2922	2000
Weight Room	885		0	N/A
Main Gym Storage	145		638	500
Main Gym	7543		7543	8000-10500

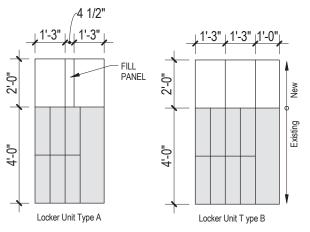


OPTION - 01

GYMNASIUM







86 Existing 12" Lockers (For use during gym class)

664 Existing 7.5" Lockers

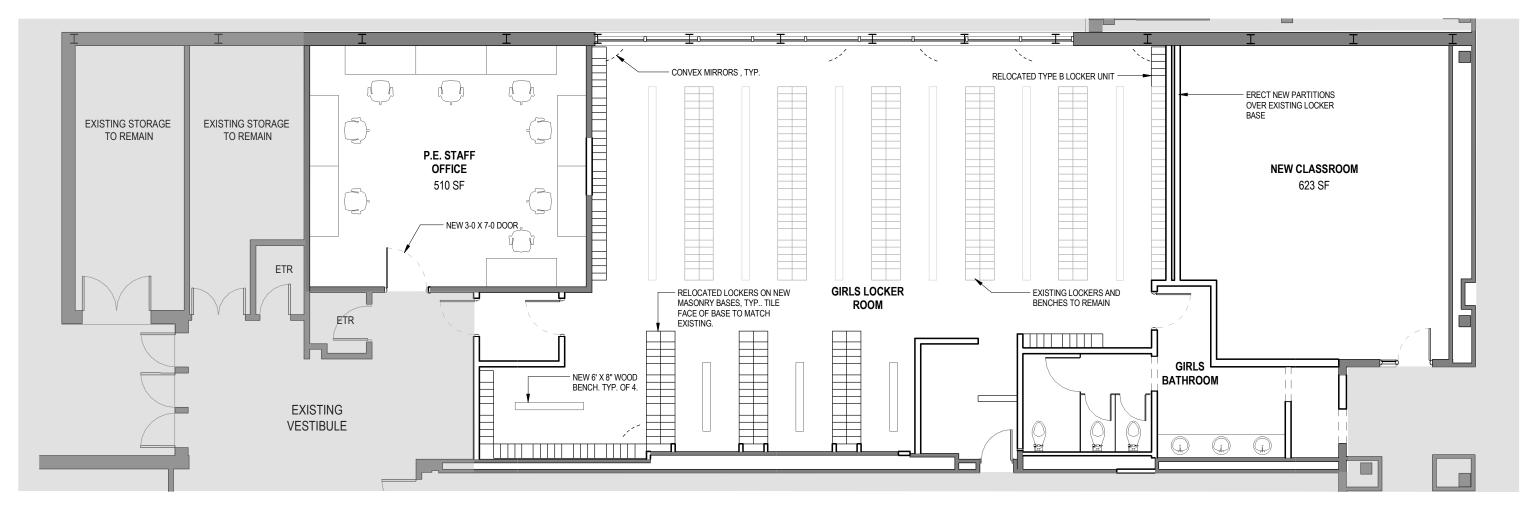
176 New 15"W x 15"D x 24"H Lockers

68 New 12"W x 15"D x 24"H Lockers

244 New Lockers

#### SQUARE FOOTAGE

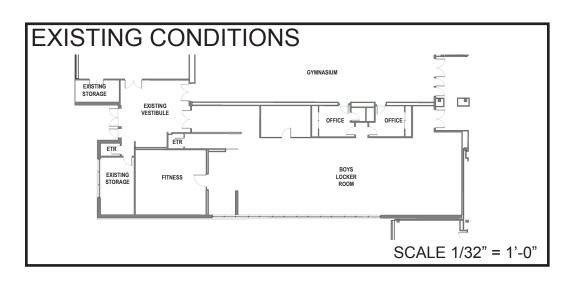
Room #	Current Room	Existing SF CAD	New Room	Proposed SF	Ed. Spec.
	Girl's Locker Room	2522		3279	3000
			New Classroom	623	700-750
	Existing Gym Storage	510		0	500
			P.E. Staff Office	510	150-400

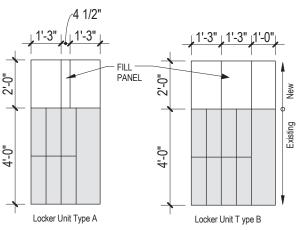


SCALE 1/8" = 1'-0"

OPTION - 02

GIRL'S LOCKER ROOM





86 Existing 12" Lockers (For use during gym class)

664 Existing 7.5" Lockers

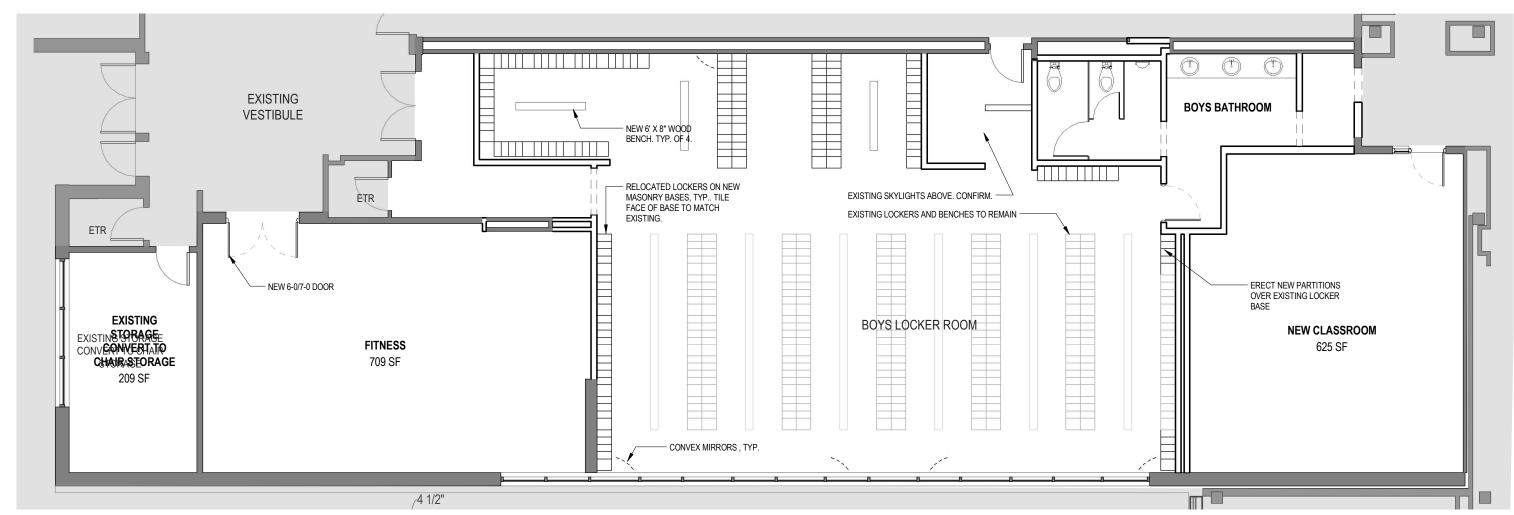
176 New 15"W x 15"D x 24"H Lockers

68 New 12"W x 15"D x 24"H Lockers

244 New Lockers

#### SQUARE FOOTAGE

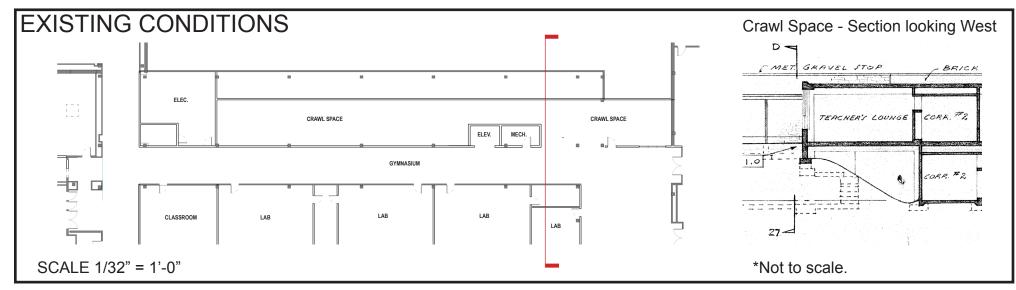
Room #	Current Room	Existing SF CAD	New Room	Proposed SF	Ed. Spec.
	Boy's Locker Room	2475		2155	3000
			New Classroom	625	700-750
	Existing Gym Storage	209		209	500
	Fitness Room	505		709	N/A



SCALE 1/8" = 1'-0"

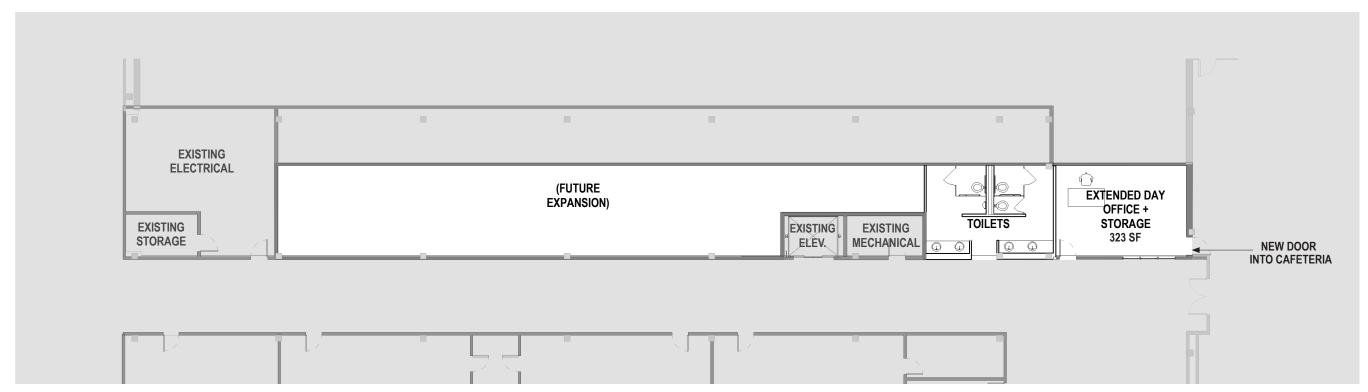
OPTION - 03

BOY'S LOCKER ROOM



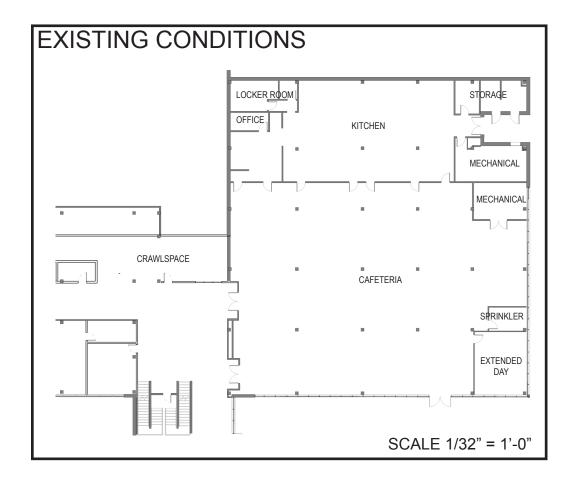
Room #	Current Room	Existing SF CAD	New Room	Proposed SF	Ed. Spec.
	Crawlspace	1889		1262	N/A
			Extended Day & Storage	323	N/A
			Toilet	316	65
			Future Expansion Space	1454	N/A

NOTE: COST ESTIMATE INCLUDES FUTURE EXPANSION OF CRAWL SPACE



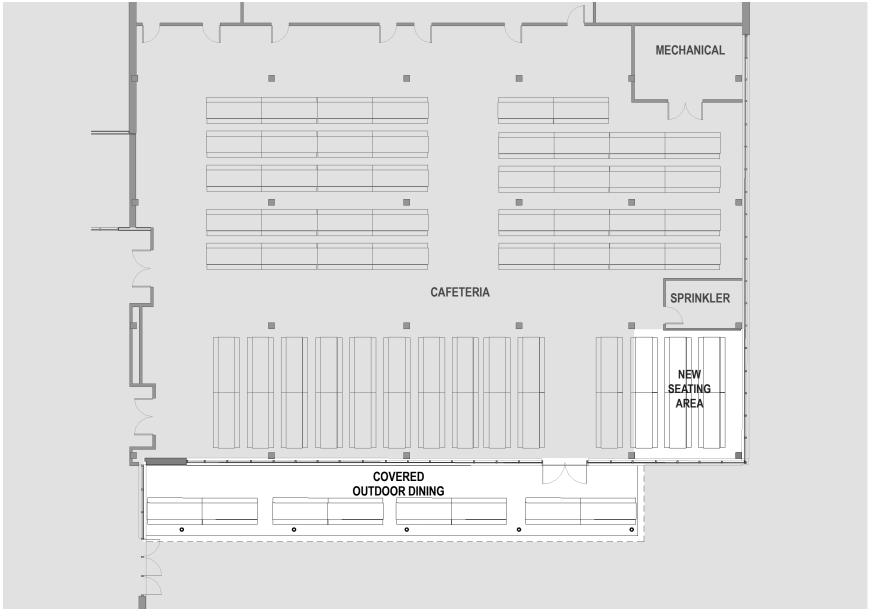
SCALE 1/16" = 1'-0"

OPTION - 01



Room #	Current Room	Existing SF CAD	New Room	Proposed SF	Ed. Spec.
	Cafeteria	6111		6435	5800
	Classroom	324		0	700-750
	Sprinkler Closet	95		95	N/A
	Mechanical Room	209		209	N/A
			Covered Outdoor Dining	916	N/A

\* Illustrates indoor seating for 524 and outdoor seating for 64. These counts reflect increased seating capacity, not increased enrollment capacity.



SCALE 1/16" = 1'-0"

OPTION - 01

Arlington Public Schools

CAFETERIA

#### EXISTING CLASSROOMS

6th Grade						
Room #	Classroom Name	SF	Ed. Spec. SF	Ed Spec. SF/Stud.	Ed Spec. Capacity	Williamsburg Max. Capacity
Ground Floor						
106	Core Classroom	728	700-750	29-31	24	25
C101	Core Classroom	732	700-750	29-31	24	25
C102	Core Classroom	754	700-750	29-31	24	26
C103	Core Classroom	658	700-750	29-31	24	23
C104	Core Classroom	740	700-750	29-31	24	26
First Floor						
201	Core Classroom	736	700-750	29-31	24	25
202	Core Classroom	729	700-750	29-31	24	25
203	Core Classroom	727	700-750	29-31	24	25
204	Core Classroom	820	700-750	29-31	24	28
205	Core Classroom	729	700-750	29-31	24	25
206	Core Classroom	641	700-750	29-31	24	22
207	Core Classroom	684	700-750	29-31	24	24
208	Core Classroom	730	700-750	29-31	24	25
209	Core Classroom	727	700-750	29-31	24	25
210	Core Classroom	729	700-750	29-31	24	25
211	Core Classroom	723	700-750	29-31	24	25
232	Science Lab	748	1200	50	24	15

7th Grade						
Room #	Classroom Name	SF	Ed. Spec. SF	Ed Spec. SF/Stud.	Ed Spec. Capacity	Williamsburg Max. Capacity
Ground Floor						
103	Core Classroom	825	700-750	29-31	24	28
104	Core Classroom	825	700-750	29-31	24	28
105	Core Classroom	729	700-750	29-31	24	25
1A6	Core Classroom	579	700-750	29-31	24	20
107	Science Lab	702	900	38	24	19
109	Core Classroom	911	700-750	29-31	24	31
112	Core Classroom	739	700-750	29-31	24	25
124	Core Classroom	674	700-750	29-31	24	23
125	Core Classroom	769	700-750	29-31	24	27
C105	Core Classroom	772	700-750	29-31	24	27
C106	Core Classroom	771	700-750	29-31	24	27
First Floor		•				
217	Core Classroom	823	700-750	29-31	24	28
218	Core Classroom	873	700-750	29-31	24	30
220	Core Classroom	825	700-750	29-31	24	28

#### NEW CLASSROOMS

Room #	Classroom Name	SF	Ed. Spec. SF	Ed Spec. SF/Stud.	Ed Spec. Capacity	
233	New Core Classroom	767	700-750	29-31	24	
	New Gym Classroom 1 625 700-750		700-750	29-31	24	
	New Gym Classroom 2	623	700-750	24		
Total New Seats						

= Capacity of room is higher than Ed. Spec capacity, per Ed. Spec SF/student parameter

= Capacity of room is lower than Ed. Spec capacity, per Ed. Spec SF/student parameter

#### EXISTING CLASSROOMS

8th Grade						
			Ed. Spec.	Ed Spec.	Ed Spec.	Williamsburg
Room #	Classroom Name	SF	SF	SF/Stud.	Capacity	Max. Capacity
Ground Floor						
111	Core Classroom	736	700-750	29-31	24	25
113	Core Classroom	738	700-750	29-31	24	25
115	Core Classroom	822	700-750	29-31	24	28
116	Core Classroom	846	700-750	29-31	24	29
117	Core Classroom	827	700-750	29-31	24	29
118	Core Classroom	832	700-750	29-31	24	29
119	Core Classroom	866	700-750	29-31	24	30
120	Core Classroom	828	700-750	29-31	24	29
121	Core Classroom	842	700-750	29-31	24	29
134	Core Classroom	713	700-750	29-31	24	25
First Floor						
214	Core Classroom	814	700-750	29-31	24	28
215	Core Classroom	817	700-750	29-31	24	28
216	Core Classroom	817	700-750	29-31	24	28
219	Special Education	821	700-750	29-31	24	28

EL/WL						
			Ed. Spec.	Ed Spec.	Ed Spec.	Williamsburg
Room #	Classroom Name	SF	SF	SF/Stud.	Capacity	Max. Capacity
Ground Floor						
101	Core Classroom	843	700-750	29-31	24	29
102	Special Education	808	700-750	29-31	24	28
114	Special Education	630	700-750	29-31	24	22
127	Art Lab	1808	1650	69	24	26
128	Multi-purpose Lab	1911	1650	69	24	27
129	Tech Lab	646	1000-1200	42-50	24	15
132	Core Classroom	651	700-750	29-31	24	22
133	Core Classroom	677	700-750	29-31	24	23
134	Core Classroom	713	700-750	29-31	24	25
136	Computer Lab	779	830	35	24	22
137	Computer Lab	636	830	35	24	18
Res Lab (CTR)	Science Lab	594	900-1200	38-50	24	16
First Floor						
225	Band Room	1512	1800	36	50	42
227	Orchestra	1430	1200	30	40	48
228		930				

#### FUTURE CLASSROOMS

2nd Floor Addition					
			Ed. Spec.	Ed Spec.	Ed Spec.
Room #	Classroom Name	SF	SF	SF/Stud.	Capacity
above 101	New Core Classroom 1	843	700-750	29-31	24
above 102	New Core Classroom 2	808	700-750	29-31	24
above 103	New Core Classroom 3	825	700-750	29-31	24
above 104	New Core Classroom 4	825	700-750	29-31	24
above 105	New Core Classroom 5	729	700-750	29-31	24
above 106	New Core Classroom 6	728	700-750	29-31	24
			Total	New Seats	144

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CLASSROOM CAPACITY





Main Office: 6799 Kennedy Road Unit F Warrenton, Virginia 20187 Phone: 540.347.5001 Fax: 540.347.5021 1388 NW 2<sup>nd</sup> Ave., Unit 4B, Boca Raton, FL. 33432 Phone: 561.416.1240 Fax: 561.416.1248 www.downeyscott.com

#### **Conceptual Design / Feasibility Cost Estimate Report**

Report Date: January 19, 2016 Revised: February 17, 2016 Prepared for:

VMDO Architects

# Arlington Public Schools Williamsburg Middle School Arlington, Virginia





#### COST ESTIMATE CLARIFYING NOTES, ASSUMPTIONS & EXCLUSIONS

- We have incorporated construction costs for a single Contractor procurement via lump sum General Contract. It is assumed that at least 5 General Contractor bids will be received. It is assumed that the facility will be occupied during construction and the project will be phased accordingly. We include phased sequenced construction costs. We do not include relocation cost, or temporary modular classrooms for the current occupants.
- We include hard construction and soft construction costs. The Soft construction costs are budgeted as 23.5% of the construction hard costs. Please refer to the main project summary for the outline of all budgeted items.
- The Limits of Construction are those indicated on the documents provided.
- We exclude all **HAZMAT abatement costs for** Lead Paint, Asbestos, PCB's or Mold. Any type of HAZMAT remediation cost is not included in our analysis.
- Design Contingency accounts for the costs of yet unidentified scope requirements and engineering. A 15% Design Contingency has been included.
- Construction Contingency accounts for the costs of change orders due to unforeseen conditions and / or owner generated changes. An <u>8% Construction Contingency has</u> been included.
- Escalation accounts for the inflationary effects of elapsed time. <u>Escalation costs have</u> been included as indicated on the summary page.
- All cost data is based on Open shop wage and burden rates.





#### SOFT COSTS INCLUDED IN OUR COSTS ANALYSIS

We are utilizing a 22.5 % Construction Soft Cost multiplier for the project budget. It is assumed that the Soft Cost multiplier will include the following items:

#### FURNITURE, FIXTURE & EQUIPMENT [FF&E]

- Loose, unattached system furniture, traditional furniture, etc.
- Special fixtures relevant to subject facility operations and uses
- Communications equipment, such as servers, telephone sets, communications cables, instruments, & accessories
- Vending equipment purchases and/or leases, etc.
- Exterior equipment, such as exercise equipment, pay telephones.

#### **MOVING & STORAGE COSTS**

- Contract and/or internal staff implemented moving costs.
- Temporary storage and insurance.
- Removal and disposal of furnishings of no salvage value.

#### **TEMPORARY FACILITIES**

- Non-contractor temporary storage trailers.
- Non-contractor temporary utilities.

#### **REAL ESTATE**

- Land acquisitions, leases, easements and rights of way.
- Real estate taxes.
- Transfer taxes.
- Recordation fees & taxes.
- Brokerage commissions.
- Settlement charges.
- Legal fees.

#### **MANAGEMENT** *Indirect* Owner Mgt Expenses

- Real estate necessary to house management & staff.
- Utilities.
- Insurance.
- Furniture, fixture & equipment.
- Project management salaries.
- Communications, telephone, facsimile expenses, e-mail, etc.
- Travel, parking, courier services, etc.
- Security.
- Office equipment & supplies.



#### COMMON OWNER SOFT CONSTRUCTION COSTS (continued)

#### PROMOTION / RESPONDING TO PUBLIC & MEDIA INOUIRIES

- Artwork and reproduction of advertising, brochures, hand-outs.
- Advertising fees.
- Postage.
- Signage.
- Photography.
- Renderings.
- Public and/or promotional events, such as hearings, fund raisers, etc.

#### **FINANCIAL**

- Accounting [in-house].
- Accounting [CPA].
- Interim financing [loan, bond, other] origination fees, expenses & interest.
- Permanent financing [loan, bond, other] origination fees, expenses & interest.
- Appraisal fees.
- Working capital / start-up.
- Performance [Owner, not to be confused with contractor] bonds

#### **INSURANCE PREMIUMS**

- Owner's Builder's Risk Insurance
- Owner Liability Insurance
- Title Insurance
- Other Owner Insurance Policies related to the project

#### LEGAL FEES

- Real estate purchase, land use changes, zoning compliance, proffers
- Partnerships
- Financing
- Contracts
- Leasing

#### **JURISDICTIONAL FEES**

- Zoning, site and general building permit fees & expenses. Note: jurisdictional trade permit fees are included in our computations.
- Primary water utility availability and connection fees
- Primary sewer utility availability and connection fees
- Gas company fees
- Power company fees
- Telephone company fees

**COST ESTIMATE** 

FEBRUARY 19. 2016



#### COMMON OWNER SOFT CONSTRUCTION COSTS (continued)

- Cable TV company fees
- State & local highway fees
- Mandatory completion bonds
- Adjoining owner demands
- Mandated off-site storm water management contributions

#### **DESIGN FEES**

- Architect / Engineer / Cost Management / Construction Management Consultant Fees
- Surveys, Civil Engineering, Testing and Third Party Inspection Fees
- Traffic Consultant Fees

#### RECOMMENDED COST CONTROL PROCESS

Controlling construction costs is a continuous process that spans from the initial programmatic level through to final completion. We recommend that further construction cost estimates be performed if the project advances past the concept/feasibility study level.

#### **MARKET CONDITIONS & OPINIONS OF PROBABLE COST**

Downey and Scott, LLC has no control over market conditions or acts of God that can create rapid fluctuations in material prices. We have extensive experience in similar projects and have employed our best judgment in analyzing the subject project. We cannot, however, guarantee that actual construction costs will not vary from the opinions of probable construction costs herein provided.

Please contact Fred Scott – Principal or Christopher M. Taylor – Vice President regarding this project should you have any questions or concerns.

LOC REF	SYS# U	NIFORMAT SYSTEM	5	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENS
				www.downeyscott.com	Revised:	February 17	7, 2016	
Documents Dated:	January 8, 20	016		Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
Location:	Arlington Pul	blic Schools		Warrenton, Virginia 20187	Submissn:	January 19,	2016	Job no: 15129
Project:	Williamsburg	MS Capacity Study		6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Report:	Feasibility St	udy Const Cost Estimate		Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Revision 2								

#### Arlington Public Schools - Williamsburg Middle School Study **PROJECT CONSTRUCTION COST SUMMARY**

North Hall Option 1	carried forward	\$1,827,014
North Hall Option 2	carried forward	\$1,608,620
Gym/Locker Room Option	carried forward	\$1,923,472
Dirt Room Option 1	carried forward	\$338,100
Dirt Room Option 2	carried forward	\$986,174
Cafeteria Option	carried forward	\$64,015
Second Floor Classroom Addition Option	carried forward	\$4,153,839

**COST ESTIMATE** 

Revision 2								
Report:	Feasibility	Study Const Cost Estimate		Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Project:	Williamsbu	urg MS Capacity Study		6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Location:	Arlington I	Public Schools		Warrenton, Virginia 20187	Submissn:	January 19,	2016	Job no: 15129
Documents Dated:	January 8,	2016		Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
				www.downeyscott.com	Revised:	February 17	, 2016	
			•					
LOC REF	SYS#	UNIFORMAT SYSTEM	•	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION

8,755.00 Gross Square Feet

PM: ct

Chckd by: fs/sm

North Hall Option 1

#### North Hall Option 1

CONSTRUCT	CONSTRUCTION COSTS		Total	8,755.00 Gross Square Feet	
CONSTRUCT	TION COSTS			Cost per SF	
North Hall Option 1	Renovation		Carried forward	128.94	\$1,128,885
North Hall Option 1					
North Hall Option 1	Subtotal				\$1,128,885
North Hall Option 1	Escalation to construction mid point	Bid 2017, Complete 2017	5.51%		\$62,230
North Hall Option 1	Subtotal				\$1,191,114
North Hall Option 1	Design Contingency		15.00%		\$178,667
North Hall Option 1	Subtotal				\$1,369,781
North Hall Option 1	Construction Contingency		8.00%		\$109,583
North Hall Option 1				Cost per SF	
North Hall Option 1	Total Hard Construction Costs Base	Bid		<u>\$168.97</u>	<i>\$1,479,364</i>
North Hall Option 1					
North Hall Option 1	Project Soft Cost - A/E Fees, F.F.&E., Own	ner Staffing, Owner Costs	23.50%		\$347,651
North Hall Option 1				Cost per SF	
North Hall Option 1	Total Hard Construction Costs Base Bid 8	& Soft Cost		<u>\$208.68</u>	<u>\$1,827,014</u>
North Hall Option 1					
North Hall Option 1					
North Hall Option 1					

Prepared by: Downey & Scott, LLC

6799 Kennedy Road, Suite F

Location: Documents Dated:	Arlingtor January	n Public Schools 8, 2016	Warrenton, Virginia 20187 Ph 540.347.5001 Fax 540.347.5021	Submissn: Run Date:	January See foot		no: 15129
			www.downeyscott.com	Revised:	February	/ 17, 2016	
LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
North Hall Option 1	00.00		BUILDING				
North Hall Option 1							
North Hall Option 1	00.50	SELECT BLDG. DEMO	Demolition	8,755.0	0 GSF	4.50	39,397.50
North Hall Option 1							
North Hall Option 1	01.00	FOUNDATIONS				Not Included	
North Hall Option 1							
North Hall Option 1	02.00	SUBSTRUCTURE	SOG - patch existing floor	2,188.7	5 SF	8.30	18,166.63
North Hall Option 1							
North Hall Option 1	03.00	SUPERSTRUCTURE	Roof framing & deck	273.0		21.00	5,733.00
North Hall Option 1			Misc metals	8,755.0		1.55	13,570.25
North Hall Option 1			Misc Wood Blocking	8,755.0	0 GSF	0.75	6,566.25
North Hall Option 1							
North Hall Option 1	04.00	EXTERIOR CLOSURE	Perimeter Wall			Existing to Remai	
North Hall Option 1			Windows			Existing to Remai	
North Hall Option 1			Misc. w.p./caulk/fire sealants/etc. Div 7	8,755.0	0 GSF	0.73	6,347.38
North Hall Option 1							
North Hall Option 1	05.00	ROOFING	Low slope membrane w/ flashing & copings	0.0	0 SF	12.50	0.00
North Hall Option 1							
North Hall Option 1	06.00	INTERIOR CONST	Mtl stud & GWB partitions, hi-impact	15,372.0		10.25	157,563.00
North Hall Option 1			GWB ceilings/bulkheads	8,755.0		0.15	1,313.25
North Hall Option 1			Misc. batt insulation	8,755.0		0.45	3,939.75
North Hall Option 1			Sound transmission control insulation	8,755.0		0.19	1,663.45
North Hall Option 1			Storefront entrances	588.0		55.00	32,340.00
North Hall Option 1			Interior glass at interior partition allowance	8,755.0		0.38	3,283.13
North Hall Option 1			Doors, frames, hardware, sidelites		0 EA	2,500.00	72,500.00
North Hall Option 1			Acoustic ceiling, avg	8,755.0		2.75	24,076.25
North Hall Option 1			Prem. ceilings: main corridors / mtg. rms, prem add	1,751.0		1.75	3,064.25
North Hall Option 1			Premium wall finish: main corridors & conf. rm	8,755.0		0.75	6,566.25
North Hall Option 1			CT floor, base, walls in restrooms	130.0		18.50	2,405.00
North Hall Option 1			CT wainscot hallways/restrooms	620.0		12.50	7,750.00
North Hall Option 1			Vinyl Floor/vinyl base	4,552.0		3.75	17,070.00
North Hall Option 1			Carpet	467.0		43.00	20,081.00
North Hall Option 1			Wood flooring		0 SF	16.50	0.00
North Hall Option 1			Rubber Athletic Flooring		0 SF	12.50	0.00
North Hall Option 1			Painting	8,755.0		2.25	19,698.75
North Hall Option 1			Misc cut and patching	8,755.0	0 GSF	0.30	2,626.50

Revision 2							
Report:	Feasibili	ty Study Const Cost Estimate	Prepared by: Downey & Scott, LLC	Status:	Concept	PM: ct	
Project:		burg MS Capacity Study	6799 Kennedy Road, Suite F	Client:	VMDO		by: fs/sm
Location:		Public Schools	Warrenton, Virginia 20187	Submissn:	January 19		
Documents Dated:	January		Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer	7, 2010 300110.	13127
Documents Dateu.	January	0, 2010				7 2014	
	- 1		www.downeyscott.com	Revised:	February 1	17, 2010	
LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
2001121	0.0	orm orms or or example.	or zon to the t	100/11/11	0	0	<u> </u>
North Hall Option 1							
North Hall Option 1	07.00	SPECIAL EQUIPMENT	Toilet partitions/accessories	8.00	EA	325.00	2,600.00
North Hall Option 1			Window treatment	8,755.00		0.45	3,939.75
North Hall Option 1			General casework	78.00		255.00	19,890.00
North Hall Option 1			General millwork	8,755.00	GSF	0.45	3,939.75
North Hall Option 1			Visual display MB & TB	8,755.00	GSF	1.00	8,755.00
North Hall Option 1			Solatube	17.00	EA	2,650.00	45,050.00
North Hall Option 1			Smart boards			Refer to FF&E	
North Hall Option 1			Kitchen / faculty lounge appliances allowance	1.00		10,000.00	10,000.00
North Hall Option 1			Misc spec. dr signs/f.e./jan shelving/etc.	8,755.00	GSF	1.50	13,132.50
North Hall Option 1			Student desks and work stations			Refer to FF&E	
North Hall Option 1			Office furnishings, sofas and chairs			Refer to FF&E	
North Hall Option 1							
North Hall Option 1	08.00	CONVEYING				Not Included	
North Hall Option 1							
North Hall Option 1	09.00	MECHANICAL HVAC	HVAC Equipment			Existing to Remain	
North Hall Option 1			Piping & Valves			Existing to Remain	
North Hall Option 1			Ductwork - modify existing	8,755.00	GSF	4.97	43,534.24
North Hall Option 1			Air Outlets - replace existing	8,755.00		0.59	5,165.45
North Hall Option 1			Ductwork Accessories	8,755.00		0.72	6,303.60
North Hall Option 1			Insulation	8,755.00		1.95	17,072.25
North Hall Option 1			Temperature Controls	8,755.00		4.10	35,895.50
North Hall Option 1			Air & Water Balance	8,755.00		0.33	2,889.15
North Hall Option 1			Coordination Drawings	8,755.00		0.22	1,926.10
North Hall Option 1			Systems Operation & Testing	8,755.00		0.25	2,188.75
North Hall Option 1			Demolition	8,755.00		0.85	7,441.75
North Hall Option 1			Bernollion	0,700.00	001	0.00	7,441.70
North Hall Option 1							
North Hall Option 1	9.20	PLUMBING	Demolition	8,755.00	GSE	0.45	3,939.75
North Hall Option 1	0.20	Lombino	Water Closet	2.00		1,150.00	2,300.00
North Hall Option 1			Lavatory	2.00		675.00	1,350.00
			*			0.50	
North Hall Option 1			Domestic Water Piping	8,755.00			4,355.61
North Hall Option 1			DWV Piping	8,755.00	GSF	0.37	3,195.58
North Hall Option 1			Storm Piping			Existing to Remain	
North Hall Option 1			Gas Piping	0.755.00	005	Existing to Remain	4 005 70
North Hall Option 1			Plumbing Insulation	8,755.00	GSF	0.14	1,225.70
North Hall Option 1			Coordination Drawings			Not Included	
North Hall Option 1	0.00	FIDE ODDINIKI ED	On stable and one of the sociation	0.755.00	005	4.75	45 004 05
North Hall Option 1	9.30	FIRE SPRINKLER	Sprinkler - modfy existing	8,755.00	GSF	1.75	15,321.25
North Hall Option 1			Fire Pump			Not Included	
North Hall Option 1							
North Hall Option 1	10.00	ELECTRICAL	Switchboards			Existing to Remain	
North Hall Option 1			Panelboards - modify existing	8,755.00	GSF	0.25	2,144.98
North Hall Option 1			Bus Duct & Transformers			Existing to Remain	
North Hall Option 1			Generator, 150 KW/Automatic Transfer Switches			Existing to Remain	
North Hall Option 1			Light Fixtures - based on T5/LED fixtures	8,755.00	GSF	6.40	56,032.00
North Hall Option 1			Light Switches, includes DDC control connections	8,755.00	GSF	1.25	10,943.75
North Hall Option 1			Power Outlets	8,755.00	GSF	0.95	8,317.25
North Hall Option 1			Safety Cabinets & Disconnects			Existing to Remain	
North Hall Option 1			Power Feeders			Existing to Remain	
North Hall Option 1			Power Home Runs	8,755.00	GSF	2.20	19,261.00
North Hall Option 1			Power Branches	8,755.00	GSF	0.85	7,441.75
North Hall Option 1			Lighting Home Runs	8,755.00	GSF	1.15	10,068.25
North Hall Option 1			Lighting Branches	8,755.00	GSF	1.05	9,192.75
North Hall Option 1			Grounding/Lightning Protection			Existing to Remain	
North Hall Option 1			Clock System	8,755.00	GSF	0.45	3,939.75
North Hall Option 1			Phone/Data System	8,755.00	GSF	3.90	34,144.50
North Hall Option 1			Security System	8,755.00	GSF	0.94	8,229.70
North Hall Option 1			P.A. & A.V. Systems	8,755.00		0.55	4,815.25
North Hall Option 1			TV System	8,755.00		0.29	2,538.95
North Hall Option 1			Fire Alarm	8,755.00		1.88	16,459.40
North Hall Option 1			Coordination Drawings	8,755.00		0.22	1,926.10
North Hall Option 1			Demolition	8,755.00		0.80	7,004.00
North Hall Option 1				-,00			.,
North Hall Option 1	11.00	MARK-UPS	Subtotal				929,592.63
North Hall Option 1			General Conditions	10.00%			92,959.26
			Subtotal	10.00%			1,022,551.89
North Hall Option 1				0 500/			
North Hall Option 1			GC OH @ 4% plus Profit @ 4.5%	8.50%			86,916.91
North Hall Option 1			Subtotal	4 7-01			1,109,468.80
North Hall Option 1			Bonds & insurance	1.75%		040000	19,415.70
North Hall Option 1			Subtotal	8,755.00	GSF	\$128.94	1,128,884.50
Manufacture Carlon 4							

COST ESTIMATE



Feasibility Study Const Cost Estimate Williamsburg MS Capacity Study

LOC REF	SYS#	UNIFORMAT SYSTEM	•	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
			•					
				www.downeyscott.com	Revised:	February 1	7, 2016	
Documents Dated:	January 8	, 2016		Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
Location:	Arlington	Public Schools		Warrenton, Virginia 20187	Submissn:	January 19	, 2016	Job no: 15129
Project:	Williamsb	urg MS Capacity Study		6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Report:	Feasibility	Study Const Cost Estimate		Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Revision 2								

#### North Hall Option 2

Renovation	7,098.00 Gross Square Feet
Total	7,098.00 Gross Square Feet

#### **CONSTRUCTION COSTS**

				Cost per ar	
North Hall Option 2	Renovation		Carried forward	140.03	\$993,942
North Hall Option 2					
North Hall Option 2	Subtotal				\$993,942
North Hall Option 2	Escalation to construction mid point	Bid 2017, Complete 2017	5.51%		\$54,791
North Hall Option 2	Subtotal				\$1,048,733
North Hall Option 2	Design Contingency		15.00%		\$157,310
North Hall Option 2	Subtotal				\$1,206,043
North Hall Option 2	Construction Contingency		8.00%		\$96,483
North Hall Option 2				Cost per SF	
North Hall Option 2	Total Hard Construction Costs Base	Bid		\$183.51	\$1,302,526
North Hall Option 2					
North Hall Option 2	Project Soft Cost - A/E Fees, F.F.&E., Ow	ner Staffing, Owner Costs	23.50%		\$306,094
North Hall Option 2				Cost per SF	
North Hall Option 2	Total Hard Construction Costs Base Bid	& Soft Cost		<u>\$226.63</u>	<u>\$1,608,620</u>
North Hall Option 2					

LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
			www.downeyscott.com	Revised:	February 17	, 2016	
Documents Dated:	January 8,	2016	Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
Location:	Arlington I	Public Schools	Warrenton, Virginia 20187	Submissn:	January 19,	2016	Job no: 15129
Project:	Williamsbu	rg MS Capacity Study	6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Report:	Feasibility	Study Const Cost Estimate	Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Revision 2							

North Hall Option 2						
North Hall Option 2	00.00		BUILDING			
North Hall Option 2						
North Hall Option 2	00.50	SELECT BLDG. DEMO	Demolition	7,098.00 GSF	4.50	31,941.00
North Hall Option 2						
North Hall Option 2	01.00	FOUNDATIONS			Not Included	
North Hall Option 2						
North Hall Option 2	02.00	SUBSTRUCTURE	SOG - patch existing floor	1,774.50 SF	8.30	14,728.35
North Hall Option 2						
North Hall Option 2	03.00	SUPERSTRUCTURE	Roof framing & deck	273.00 SF	21.00	5,733.00
North Hall Option 2			Misc metals	7,098.00 GSF	1.55	11,001.90
North Hall Option 2			Misc Wood Blocking	7,098.00 GSF	0.75	5,323.50
North Hall Option 2						
North Hall Option 2	04.00	EXTERIOR CLOSURE	Perimeter Wall		Existing to Remain	
North Hall Option 2			Windows		Existing to Remain	
North Hall Option 2			Misc. w.p./caulk/fire sealants/etc. Div 7	7,098.00 GSF	0.73	5,146.05
North Hall Option 2						
North Hall Option 2	05.00	ROOFING	Low slope membrane w/ flashing & copings	0.00 SF	12.50	0.00
North Hall Option 2			AND A LOCALIDA AND A LOCAL DESCRIPTION OF THE PARTY OF TH	44 400 00 05	40.05	
North Hall Option 2	06.00	INTERIOR CONST	Mtl stud & GWB partitions, hi-impact	14,406.00 SF	10.25	147,661.50
North Hall Option 2			GWB ceilings/bulkheads	7,098.00 GSF	0.15	1,064.70
North Hall Option 2			Misc. batt insulation	7,098.00 GSF	0.45	3,194.10
North Hall Option 2			Sound transmission control insulation	7,098.00 GSF	0.19	1,348.62
North Hall Option 2			Storefront entrances	588.00 SF	55.00	32,340.00
North Hall Option 2			Interior glass at interior partition allowance	7,098.00 SF	0.38	2,661.75
North Hall Option 2			Doors, frames, hardware, sidelites	29.00 EA	2,500.00	72,500.00
North Hall Option 2			Acoustic ceiling, avg	7,098.00 GSF	2.75 1.75	19,519.50 2.484.30
North Hall Option 2			Prem. ceilings: main corridors / mtg. rms, prem add Premium wall finish: main corridors & conf. rm	1,419.60 GSF 7.098.00 GSF	0.75	5.323.50
North Hall Option 2			CT floor, base, walls in restrooms	7,098.00 GSF 130.00 SF	18.50	2,405.00
North Hall Option 2			CT wainscot hallways/restrooms	620.00 SF	12.50	7.750.00
North Hall Option 2 North Hall Option 2			Vinyl Floor/vinyl base	2.895.00 SF	3.75	10.856.25
			Carpet	467.00 SY	43.00	20.081.00
North Hall Option 2 North Hall Option 2			Wood flooring	0.00 SF	16.50	0.00
North Hall Option 2 North Hall Option 2			Rubber Athletic Flooring	0.00 SF	12.50	0.00
North Hall Option 2 North Hall Option 2			Painting	7,098.00 GSF	2.25	15.970.50
North Hall Option 2			Misc cut and patching	7,098.00 GSF	0.30	2,129.40
North Hall Option 2			wilde out and patering	7,000.00 001	0.30	2,129.40
Notal Hall Option 2						

Revision 2	_			0.1			
Report:		ty Study Const Cost Estimate	Prepared by: Downey & Scott, LLC 6799 Kennedy Road, Suite F	Status: Client:	Concept VMDO	PM: ct	ı- fe <i>l</i> em
Project: Location:		burg MS Capacity Study n Public Schools	6/99 Kennedy Road, Sulte F Warrenton, Virginia 20187	Submissn:	January 1	Chckd by 19, 2016 Job no: 1	
Documents Dated:	January		Ph 540.347.5001 Fax 540.347.5021	Run Date:	See foote		3127
Boodinon's Baroa.	January	5, 20.0	www.downeyscott.com	Revised:	February		
North Hall Option 2	07.00	SPECIAL EQUIPMENT	Toilet partitions/accessories	8.00	D EA	325.00	2,600.00
North Hall Option 2			Window treatment	7,098.00		0.45	3,194.10
North Hall Option 2			General casework	101.00	) LF	255.00	25,755.00
North Hall Option 2			General millwork	7,098.00		0.45	3,194.10
North Hall Option 2			Visual display MB & TB	7,098.00		1.00	7,098.00
North Hall Option 2			Solatube Smart heards	17.00	) EA	2,650.00	45,050.00
North Hall Option 2 North Hall Option 2			Smart boards Kitchen / faculty lounge appliances allowance	1.0	) LS	Refer to FF&E 10,000.00	10,000.00
North Hall Option 2			Misc spec. dr signs/f.e./jan shelving/etc.	7,098.00		1.50	10,647.00
North Hall Option 2			Student desks and work stations	7,000.0		Refer to FF&E	10,011.00
North Hall Option 2			Office furnishings, sofas and chairs			Refer to FF&E	
North Hall Option 2							
North Hall Option 2	08.00	CONVEYING				Not Included	
North Hall Option 2							
North Hall Option 2	09.00	MECHANICAL HVAC	HVAC Equipment			Existing to Remain	
North Hall Option 2			Piping & Valves	= 000		Existing to Remain	
North Hall Option 2			Ductwork - modify existing	7,098.00 7,098.00		4.97 0.59	35,294.81 4,187.82
North Hall Option 2 North Hall Option 2			Air Outlets - replace existing Ductwork Accessories	7,098.00		0.59	5,110.56
North Hall Option 2			Insulation	7,098.00		1.95	13,841.10
North Hall Option 2			Temperature Controls	7,098.0		4.10	29,101.80
North Hall Option 2			Air & Water Balance	7,098.00		0.33	2,342.34
North Hall Option 2			Coordination Drawings	7,098.00		0.22	1,561.56
North Hall Option 2			Systems Operation & Testing	7,098.0		0.25	1,774.50
North Hall Option 2			Demolition	7,098.00	) GSF	0.85	6,033.30
North Hall Option 2							
North Hall Option 2 North Hall Option 2	9.20	PLUMBING	Demolition	7,098.00	GSF	0.45	3,194.10
North Hall Option 2	0.20	Lowbird	Water Closet		D EA	1,150.00	2,300.00
North Hall Option 2			Lavatory		D EA	675.00	1,350.00
North Hall Option 2			Domestic Water Piping	7,098.00	) GSF	0.50	3,531.26
North Hall Option 2			DWV Piping	7,098.00	) GSF	0.37	2,590.77
North Hall Option 2			Storm Piping			Existing to Remain	
North Hall Option 2			Gas Piping	7 000 0	0.00	Existing to Remain	000 70
North Hall Option 2			Plumbing Insulation Coordination Drawings	7,098.00	J GSF	0.14 Not Included	993.72
North Hall Option 2 North Hall Option 2			Coordination Drawings			Not included	
North Hall Option 2	9.30	FIRE SPRINKLER	Sprinkler - modfy existing	7,098.0	) GSF	1.75	12,421.50
North Hall Option 2			Fire Pump			Not Included	
North Hall Option 2							
North Hall Option 2	10.00	ELECTRICAL	Switchboards			Existing to Remain	
North Hall Option 2			Panelboards - modify existing	7,098.0	) GSF	0.25	1,739.01
North Hall Option 2			Bus Duct & Transformers			Existing to Remain	
North Hall Option 2 North Hall Option 2			Generator, 150 KW/Automatic Transfer Switches Light Fixtures - based on T5/LED fixtures	7,098.00	n GSE	Existing to Remain 6.40	45,427.20
North Hall Option 2			Light Switches, includes DDC control connections	7,098.00		1.25	8,872.50
North Hall Option 2			Power Outlets	7,098.00		0.95	6,743.10
North Hall Option 2			Safety Cabinets & Disconnects			Existing to Remain	
North Hall Option 2			Power Feeders			Existing to Remain	
North Hall Option 2			Power Home Runs	7,098.0		2.20	15,615.60
North Hall Option 2			Power Branches	7,098.00		0.85	6,033.30
North Hall Option 2			Lighting Home Runs Lighting Branches	7,098.00 7,098.00		1.15 1.05	8,162.70 7,452.90
North Hall Option 2 North Hall Option 2			Grounding/Lightning Protection	7,086.00	JOSE	Existing to Remain	7,452.90
North Hall Option 2			Clock System	7,098.00	GSF	0.45	3,194.10
North Hall Option 2			Phone/Data System	7,098.0		3.90	27,682.20
North Hall Option 2			Security System	7,098.00	O GSF	0.94	6,672.12
North Hall Option 2			P.A. & A.V. Systems	7,098.00		0.55	3,903.90
North Hall Option 2			TV System	7,098.00		0.29	2,058.42
North Hall Option 2			Fire Alarm	7,098.00		1.88	13,344.24
North Hall Option 2 North Hall Option 2			Coordination Drawings Demolition	7,098.00 7,098.00		0.22 0.80	1,561.56 5,678.40
North Hall Option 2			Demonitori	7,000.00	001	0.00	3,070.40
North Hall Option 2	11.00	MARK-UPS	Subtotal				818,472.50
North Hall Option 2			General Conditions	10.00%	6		81,847.25
North Hall Option 2			Subtotal				900,319.75
			GC OH @ 4% plus Profit @ 4.5%	8.50%	6		76,527.18
North Hall Option 2			Subtotal				070 040 00
North Hall Option 2					,		976,846.93
			Bonds & insurance Subtotal	1.75% 7,098.00		\$140.03	976,846.93 17,094.82 <b>993,941.75</b>

**COST ESTIMATE** 



Revision 2						
Report:	Feasibility Study Const Cost Estimate	Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Project:	Williamsburg MS Capacity Study	6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Location:	Arlington Public Schools	Warrenton, Virginia 20187	Submissn:	January 19, 2016	)	Job no: 15129
Documents Dated:	January 8, 2016	Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
		www.downeyscott.com	Revised:	February 17, 201	6	
LOC REF	SYS# UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M L	JNIT COST	EXTENSION

#### Gym/Locker Room Option

17,896.00 Gross Square Feet 17,896.00 Gross Square Feet **CONSTRUCTION COSTS** Cost per SF

				Cost per SF	
Gym/Locker Room Option	Renovation		Carried forward	66.41	\$1,188,484
Gym/Locker Room Option					
Gym/Locker Room Option	Subtotal				\$1,188,484
Gym/Locker Room Option	Escalation to construction mid point	Bid 2017, Complete 2017	5.51%		\$65,515
Gym/Locker Room Option	Subtotal				\$1,253,999
Gym/Locker Room Option	Design Contingency		15.00%		\$188,100
Gym/Locker Room Option	Subtotal				\$1,442,099
Gym/Locker Room Option	Construction Contingency		8.00%		\$115,368
Gym/Locker Room Option				Cost per SF	
Gym/Locker Room Option	<b>Total Hard Construction Costs Base</b>	Bid		\$87.03	<b>\$1,557,467</b>
Gym/Locker Room Option					
Gym/Locker Room Option	Project Soft Cost - A/E Fees, F.F.&E., Own	ner Staffing, Owner Costs	23.50%		\$366,005
Gym/Locker Room Option				Cost per SF	
Gym/Locker Room Option	Total Hard Construction Costs Base Bid	& Soft Cost		\$107.48	<u>\$1,923,472</u>
Gym/Locker Room Option					

LOC REF	SYS#	UNIFORMAT SYSTEM	S	PECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
				www.downeyscott.com	Revised:	February 17	7, 2016	
Documents Dated:	January 8	, 2016		Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
Location:	Arlington	Public Schools		Warrenton, Virginia 20187	Submissn:	January 19,	2016	Job no: 15129
Project:	Williamsb	urg MS Capacity Study		6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Report:	Feasibility	Study Const Cost Estimate		Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Revision 2								

Gym/Locker Room Option						
Gym/Locker Room Option	00.00		BUILDING			
Gym/Locker Room Option						
Gym/Locker Room Option	00.50	SELECT BLDG. DEMO	Demolition	17,896.00 GSF	3.58	63,978.20
Gym/Locker Room Option						
Gym/Locker Room Option	01.00	FOUNDATIONS			Not Included	
Gym/Locker Room Option						
Gym/Locker Room Option	02.00	SUBSTRUCTURE	SOG - patch existing floor	4,474.00 SF	8.30	37,134.20
Gym/Locker Room Option						
Gym/Locker Room Option	03.00	SUPERSTRUCTURE	Roof framing & deck	0.00 SF	21.00	0.00
Gym/Locker Room Option			Misc metals	17,896.00 GSF	0.78	13,869.40
Gym/Locker Room Option			Concrete Base for Lockers	1,368.00 SF	7.50	10,260.00
Gym/Locker Room Option			Misc Wood Blocking	17,896.00 GSF	0.38	6,711.00
Gym/Locker Room Option						
Gym/Locker Room Option	04.00	EXTERIOR CLOSURE	Perimeter Wall		Existing to Remain	
Gym/Locker Room Option			Windows		Existing to Remain	
Gym/Locker Room Option			Storefront entrances	0.00 SF	55.00	0.00
Gym/Locker Room Option			Misc. w.p./caulk/fire sealants/etc. Div 7	17,896.00 GSF	0.29	5,189.84
Gym/Locker Room Option						
Gym/Locker Room Option	05.00	ROOFING	Low slope membrane w/ flashing & copings	0.00 SF	12.50	0.00
Gym/Locker Room Option					40.05	
Gym/Locker Room Option	06.00	INTERIOR CONST	Mtl stud & GWB partitions, hi-impact	9,419.20 SF	10.25	96,546.80
Gym/Locker Room Option			GWB ceilings/bulkheads	0.00 GSF	0.15	0.00
Gym/Locker Room Option			Misc. batt insulation	0.00 GSF	0.45	0.00
Gym/Locker Room Option			Sound transmission control insulation	0.00 GSF	0.19	0.00
Gym/Locker Room Option			Interior glass at interior partition allowance	0.00 SF	0.38	0.00
Gym/Locker Room Option			Doors, frames, hardware, sidelites	7.00 EA 4.803.50 GSF	2,500.00 2.75	17,500.00 13.209.63
Gym/Locker Room Option			Acoustic ceiling, avg	4,803.50 GSF 0.00 GSF	2.75 1.75	0.00
Gym/Locker Room Option			Prem. ceilings: main corridors / mtg. rms, prem add Premium wall finish: main corridors & conf. rm	0.00 GSF 0.00 GSF	0.75	0.00
Gym/Locker Room Option				3.579.50 SF	18.50	66.220.75
Gym/Locker Room Option			CT floor, base, walls in restrooms CT wainscot hallways/restrooms	4,016.00 SF	12.50	50,200.00
Gym/Locker Room Option			Vinyl Floor/vinyl base	1,224.00 SF	3.75	4.590.00
Gym/Locker Room Option			Carpet	0.00 SY	43.00	4,590.00
Gym/Locker Room Option			Wood flooring - refinished existing	5.357.00 SF	43.00	24.307.39
Gym/Locker Room Option			Rubber Athletic Flooring	4.423.00 SF	12.50	55.287.50
Gym/Locker Room Option Gym/Locker Room Option			Painting	17.896.00 GSF	2.25	40.266.00
Gym/Locker Room Option			Misc cut and patching	17,896.00 GSF 17.896.00 GSF	0.30	5.368.80
Gym/Locker Room Option			wise cut and patering	17,000.00 001	0.30	5,500.00

Report:	Feasibili	ty Study Const Cost Estimate	Prepared by: Downey & Scott, LLC	Status: Conce	ot PM: ct	
Project:		burg MS Capacity Study	6799 Kennedy Road, Suite F	Client: VMDO		by: fs/sm
Location:		n Public Schools	Warrenton, Virginia 20187		y 19, 2016 Job no:	15129
Documents Dated:	January	8, 2016	Ph 540.347.5001 Fax 540.347.5021	Run Date: See for		
	1		www.downeyscott.com	Revised: Februa	ry 17, 2016	
LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY U/M	UNIT COST	EXTENSION
Gym/Locker Room Option						
Gym/Locker Room Option	07.00	SPECIAL EQUIPMENT	Toilet partitions/accessories	28.00 EA	325.00	9,100.00
Gym/Locker Room Option			Window treatment	0.00 GSF	0.45	0.00
Gym/Locker Room Option			General casework - vanity	44.00 LF	127.50	5,610.00
Gym/Locker Room Option			General millwork	0.00 GSF	0.45	0.00
Gym/Locker Room Option			Visual display MB & TB	17,896.00 GSF	0.25	4,474.00
Gym/Locker Room Option			Lockers - new	488.00 EA	181.17	88,410.96
Gym/Locker Room Option			Lockers - relocated Locker Benches	531.00 EA 72.00 LF	102.47 32.50	54,408.92 2,340.00
Gym/Locker Room Option Gym/Locker Room Option			Black Box Theater - rigging & curtain (1,290 SF)	0.00 LS	55,740.00	2,340.00
Gym/Locker Room Option			Black Box Theater - AV & Lighting	0.00 LS	245,000.00	0.00
Gym/Locker Room Option			Kitchen / faculty lounge appliances allowance	0.00 LS	10,000.00	0.00
Gym/Locker Room Option			Misc spec. dr signs/f.e./jan shelving/etc.	17,896.00 GSF	0.11	2,013.30
Gym/Locker Room Option			Student desks and work stations		Refer to FF&E	
Gym/Locker Room Option			Office furnishings, sofas and chairs		Refer to FF&E	
Gym/Locker Room Option						
Gym/Locker Room Option	08.00	CONVEYING			Not Included	
Gym/Locker Room Option						
Gym/Locker Room Option	09.00	MECHANICAL HVAC	HVAC Equipment	17,896.00 GSF	3.20	57,267.20
Gym/Locker Room Option			Piping & Valves		Existing to Remain	
Gym/Locker Room Option			Ductwork - modify existing	17,896.00 GSF	1.17	20,938.32
Gym/Locker Room Option			Air Outlets - replace existing	17,896.00 GSF	0.59	10,558.64
Gym/Locker Room Option			Ductwork Accessories	17,896.00 GSF	0.07 0.20	1,288.51 3,489.72
Gym/Locker Room Option Gym/Locker Room Option			Insulation Temperature Controls	17,896.00 GSF 17,896.00 GSF	0.82	14,674.72
Gym/Locker Room Option			Air & Water Balance	17,896.00 GSF	0.33	5,905.68
Gym/Locker Room Option			Coordination Drawings	17,000.00 001	Not Included	0,000.00
Gym/Locker Room Option			Systems Operation & Testing	17,896.00 GSF	0.25	4,474.00
Gym/Locker Room Option			Demolition	17,896.00 GSF	0.17	3,042.32
Gym/Locker Room Option						
Gym/Locker Room Option						
Gym/Locker Room Option	9.20	PLUMBING	Demolition	17,896.00 GSF	0.45	8,053.20
Gym/Locker Room Option			Water Closet	6.00 EA	1,150.00	6,900.00
Gym/Locker Room Option			Urinal	2.00 EA	995.00	1,990.00
Gym/Locker Room Option			Lavatory	6.00 EA	675.00	4,050.00
Gym/Locker Room Option			Domestic Water Piping	17,896.00 GSF	0.50	8,903.26
Gym/Locker Room Option			DWV Piping	17,896.00 GSF	0.37	6,532.04
Gym/Locker Room Option			Storm Piping		Existing to Remain	
Gym/Locker Room Option			Gas Piping Plumbing Insulation	17,896.00 GSF	Existing to Remain 0.14	2,505.44
Gym/Locker Room Option Gym/Locker Room Option			Coordination Drawings	17,090.00 GSI	Not Included	2,303.44
Gym/Locker Room Option			Coordination Drawings		Not included	
Gym/Locker Room Option	9.30	FIRE SPRINKLER	Sprinkler - modfy existing	17,896.00 GSF	1.75	31,318.00
Gym/Locker Room Option			Fire Pump	,	Not Included	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Gym/Locker Room Option			· · · · ·			
Gym/Locker Room Option	10.00	ELECTRICAL	Switchboards		Existing to Remain	
Gym/Locker Room Option			Panelboards - modify existing	17,896.00 GSF	0.15	2,630.71
Gym/Locker Room Option			Bus Duct & Transformers		Existing to Remain	
Gym/Locker Room Option			Generator, 150 KW/Automatic Transfer Switches		Existing to Remain	
Gym/Locker Room Option			Light Fixtures - modify existing	17,896.00 GSF	1.92	34,360.32
Gym/Locker Room Option			Light Switches - modify existing	17,896.00 GSF	0.19	3,355.50
Gym/Locker Room Option			Power Outlets	17,896.00 GSF	0.29	5,100.36
Gym/Locker Room Option			Safety Cabinets & Disconnects		Existing to Remain	
Gym/Locker Room Option			Power Feeders	47 000 00 005	Existing to Remain	
Gym/Locker Room Option			Power Home Runs - modify existing	17,896.00 GSF	0.55	9,842.80
Gym/Locker Room Option			Power Branches - modify existing	17,896.00 GSF	0.21	3,802.90
Gym/Locker Room Option			Lighting Home Runs - modify existing Lighting Branches - modify existing	17,896.00 GSF 17,896.00 GSF	0.29 0.26	5,145.10 4,697.70
Gym/Locker Room Option Gym/Locker Room Option			Grounding/Lightning Protection	17,090.00 GSI	Existing to Remain	4,097.70
Gym/Locker Room Option			Clock System - modify existing	17,896.00 GSF	0.11	2,013.30
Gym/Locker Room Option			Phone/Data System - modify existing	17,896.00 GSF	0.98	17,448.60
Gym/Locker Room Option			Security System - modify existing	17,896.00 GSF	0.24	4,205.56
Gym/Locker Room Option			P.A. & A.V. Systems - modify existing	17,896.00 GSF	0.14	2,460.70
Gym/Locker Room Option			TV System - modify existing	17,896.00 GSF	0.07	1,297.46
Gym/Locker Room Option			Fire Alarm - modify existing	17,896.00 GSF	0.47	8,411.12
Gym/Locker Room Option			Coordination Drawings		Not Included	
Gym/Locker Room Option			Demolition	17,896.00 GSF	0.28	5,010.88
Gym/Locker Room Option						
Gym/Locker Room Option	11.00	MARK-UPS	Subtotal			978,670.74
Gym/Locker Room Option			General Conditions	10.00%		97,867.07
Gym/Locker Room Option			Subtotal			1,076,537.82
Gym/Locker Room Option			GC OH @ 4% plus Profit @ 4.5%	8.50%		91,505.71
Gym/Locker Room Option			Subtotal	4 750/		1,168,043.53
Gym/Locker Room Option			Bonds & insurance	1.75%	¢cc 44	20,440.76
Gym/Locker Room Option			Subtotal	17,896.00 <b>GSF</b>	\$66.41	1,188,484.29

COST ESTIMATE



Gym/Locker Room Option



LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
			www.downeyscott.com	Revised:	February 17	7, 2016	
Documents Dated:	January 8	, 2016	Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
Location:	Arlington	Public Schools	Warrenton, Virginia 20187	Submissn:	January 19,	, 2016	Job no: 15129
Project:	Williamsb	urg MS Capacity Study	6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Report:	Feasibility	Study Const Cost Estimate	Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Revision 2							

664.00 Gross Square Feet

#### **Dirt Room Option 1**

CONSTRUCT	TION COSTS		Total		664.00 Gross Square Feet		
CONSTRUCT	10N COSTS			Cost per SF			
Dirt Room Option 1	Renovation		Carried forward	314.62	\$208,907		
Dirt Room Option 1							
Dirt Room Option 1	Subtotal				\$208,907		
Dirt Room Option 1	Escalation to construction mid point	Bid 2017, Complete 2017	5.51%		\$11,516		
Dirt Room Option 1	Subtotal				\$220,423		
Dirt Room Option 1	Design Contingency		15.00%		\$33,063		
Dirt Room Option 1	Subtotal				\$253,486		
Dirt Room Option 1	Construction Contingency		8.00%		\$20,279		
Dirt Room Option 1	• •			Cost per SF			
Dirt Room Option 1	Total Hard Construction Costs Base Bio	d		\$412.30	\$273,765		
Dirt Room Option 1							
Dirt Room Option 1	Project Soft Cost - A/E Fees, F.F.&E., Owner	Staffing, Owner Costs	23.50%		\$64,335		
Dirt Room Option 1				Cost per SF			
Dirt Room Option 1	Total Hard Construction Costs Base Bid & S	oft Cost		<u>\$509.19</u>	\$338,100		
Dirt Room Option 1							
Dirt Room Option 1							

Revision 2 Report: Project: Location: Documents Dated:	Williamst	y Study Const Cost Estimate burg MS Capacity Study I Public Schools 8, 2016	Prepared by: Downey & Scott, LLC 6799 Kennedy Road, Sulte F Warrenton, Virginia 20187 Ph 540.347.5001 Fax 540.347.5021 www.downeyscott.com	Status: Client: Submissn: Run Date: Revised:	Concept VMDO January 1 <sup>st</sup> See footer February 2	9, 2016 Ji	M: ct hckd by: fs/sm ob no: 15129
LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
Dirt Room Option 1	00.00		BUILDING				
Dirt Room Option 1 Dirt Room Option 1	00.00		BUILDING				
Dirt Room Option 1	00.50	SELECT BLDG, DEMO	Demolition	664.0	0 GSF	6.50	4,316.00
Dirt Room Option 1							.,
Dirt Room Option 1	01.00	FOUNDATIONS	Foundations	664.0	0 GSF	11.80	7,835.20
Dirt Room Option 1							
Dirt Room Option 1	02.00	SUBSTRUCTURE	SOG	664.0	0 SF	16.60	11,022.40
Dirt Room Option 1			D (( ) A   )				
Dirt Room Option 1	03.00	SUPERSTRUCTURE	Roof framing & deck		0 SF	21.00	0.00
Dirt Room Option 1			Misc metals Misc Wood Blocking		0 GSF 0 GSF	1.55 0.75	1,029.20 498.00
Dirt Room Option 1 Dirt Room Option 1			IVIISC VVOOU BIOCKING	004.0	U GSF	0.75	490.00
Dirt Room Option 1	04.00	EXTERIOR CLOSURE	Perimeter Wall	954.0	0 SF	20.50	19.557.00
Dirt Room Option 1	00		Windows	001.0	0.0.	Existing to Rema	.,
Dirt Room Option 1			Storefront entrances	0.0	0 SF	55.00	0.00
Dirt Room Option 1			Misc. w.p./caulk/fire sealants/etc. Div 7	664.0	0 GSF	0.73	481.40
Dirt Room Option 1							
Dirt Room Option 1	05.00	ROOFING	Low slope membrane w/ flashing & copings	0.0	0 SF	12.50	0.00
Dirt Room Option 1							
Dirt Room Option 1	06.00	INTERIOR CONST	Mtl stud & GWB partitions, hi-impact	3,006.0		10.25	30,811.50
Dirt Room Option 1			GWB ceilings/bulkheads		0 GSF	0.15	99.60
Dirt Room Option 1			Misc. batt insulation Sound transmission control insulation		0 GSF 0 GSF	0.45 0.19	298.80 126.16
Dirt Room Option 1 Dirt Room Option 1			Interior glass at interior partition allowance	664.0		0.19	249.00
Dirt Room Option 1			Doors, frames, hardware, sidelites		0 EA	2,500.00	5.000.00
Dirt Room Option 1			Acoustic ceiling, avg		0 GSF	2.75	1,826.00
Dirt Room Option 1			Prem. ceilings: main corridors / mtg. rms, prem add	132.8	0 GSF	1.75	232.40
Dirt Room Option 1			Premium wall finish: main corridors & conf. rm	664.0	0 GSF	0.75	498.00
Dirt Room Option 1			CT floor, base, walls in restrooms	314.0		18.50	5,809.00
Dirt Room Option 1			CT wainscot hallways/restrooms	570.0		12.50	7,125.00
Dirt Room Option 1			Vinyl Floor/vinyl base	350.0		3.75	1,312.50
Dirt Room Option 1			Carpet		0 SY	43.00	0.00
Dirt Room Option 1 Dirt Room Option 1			Wood flooring Rubber Athletic Flooring		0 SF 0 SF	16.50 12.50	0.00
Dirt Room Option 1 Dirt Room Option 1			Painting		0 SF 0 GSF	2.25	1,494.00
Dirt Room Option 1			Misc cut and patching		0 GSF	0.30	199.20
Dirt Room Option 1			.moo out and patering	554.0	- 50.	5.00	100.20

Revision 2							
Report:		ty Study Const Cost Estimate	Prepared by: Downey & Scott, LLC	Status:	Concept VMDO		PM: ct
Project: Location:		burg MS Capacity Study n Public Schools	6799 Kennedy Road, Suite F Warrenton, Virginia 20187	Client: Submissn:	January 19	9 2016	Chckd by: fs/sm Job no: 15129
Documents Dated:	January		Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer	,,2010	300110.10127
		1	www.downeyscott.com	Revised:	February 1	17, 2016	T
LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
LOO KEI			<u> </u>			•	
Dirt Room Option 1	07.00	SPECIAL EQUIPMENT	Toilet partitions/accessories	16.00		325.00	
Dirt Room Option 1 Dirt Room Option 1			Window treatment General casework	664.00 16.00		0.45 255.00	
Dirt Room Option 1			General millwork	664.00		0.45	
Dirt Room Option 1			Visual display MB & TB	664.00	GSF	1.00	
Dirt Room Option 1			Kitchen / faculty lounge appliances allowance	0.00		10,000.00	
Dirt Room Option 1			Misc spec. dr signs/f.e./jan shelving/etc.	664.00	GSF	1.50	
Dirt Room Option 1 Dirt Room Option 1			Student desks and work stations Office furnishings, sofas and chairs			Refer to FF&E Refer to FF&E	
Dirt Room Option 1			Office furnishings, solas and chairs			Kelel lo I I &L	
Dirt Room Option 1	08.00	CONVEYING				Not Included	
Dirt Room Option 1							
Dirt Room Option 1	09.00	MECHANICAL HVAC	HVAC Equipment	664.00		13.50	
Dirt Room Option 1			Piping & Valves	664.00		4.97	
Dirt Room Option 1			Ductwork - modify existing	664.00		4.97	
Dirt Room Option 1 Dirt Room Option 1			Air Outlets - replace existing Ductwork Accessories	664.00 664.00		0.59 0.72	
Dirt Room Option 1			Insulation	664.00		1.95	
Dirt Room Option 1			Temperature Controls	664.00		4.10	
Dirt Room Option 1			Air & Water Balance	664.00		0.33	
Dirt Room Option 1			Coordination Drawings	664.00		0.22	
Dirt Room Option 1			Systems Operation & Testing Demolition	664.00		0.25 0.85	
Dirt Room Option 1 Dirt Room Option 1			Demolition	664.00	GSF	0.85	564.40
Dirt Room Option 1							
Dirt Room Option 1	9.20	PLUMBING	Demolition	664.00	GSF	0.45	298.80
Dirt Room Option 1			Water Closet	3.00		1,150.00	
Dirt Room Option 1			Urinal	1.00		995.00	
Dirt Room Option 1			Lavatory	4.00		675.00	
Dirt Room Option 1			Domestic Water Piping DWV Piping	664.00 664.00		0.50 0.37	
Dirt Room Option 1 Dirt Room Option 1			Storm Piping	004.00	GSF	Existing to Rei	
Dirt Room Option 1			Gas Piping			Existing to Rei	
Dirt Room Option 1			Plumbing Insulation	664.00	GSF	0.14	92.96
Dirt Room Option 1			Coordination Drawings			Not Included	
Dirt Room Option 1	9.30	FIRE SPRINKLER	Sprinkler - modfy existing	664.00	CSE	3.50	2,324.00
Dirt Room Option 1 Dirt Room Option 1	9.30	FIRE SPRINKLER	Fire Pump	004.00	GGI	Not Included	2,324.00
Dirt Room Option 1			The Fullip			Not included	
Dirt Room Option 1	10.00	ELECTRICAL	Switchboards			Existing to Rei	main
Dirt Room Option 1			Panelboards - modify existing	664.00	GSF	0.25	
Dirt Room Option 1			Bus Duct & Transformers			Existing to Rea	
Dirt Room Option 1			Generator, 150 KW/Automatic Transfer Switches	224.00	005	Existing to Rei	
Dirt Room Option 1 Dirt Room Option 1			Light Fixtures - based on T5/LED fixtures Light Switches, includes DDC control connections	664.00 664.00		6.40 1.25	
Dirt Room Option 1			Power Outlets	664.00		0.95	
Dirt Room Option 1			Safety Cabinets & Disconnects			Existing to Rei	
Dirt Room Option 1			Power Feeders			Existing to Rei	
Dirt Room Option 1			Power Home Runs	664.00		2.20	
Dirt Room Option 1			Power Branches	664.00 664.00		0.85	
Dirt Room Option 1 Dirt Room Option 1			Lighting Home Runs Lighting Branches	664.00		1.15 1.05	
Dirt Room Option 1			Grounding/Lightning Protection	004.00	001	Existing to Rei	
Dirt Room Option 1			Clock System	664.00	GSF	0.45	
Dirt Room Option 1			Phone/Data System	664.00		3.90	
Dirt Room Option 1			Security System	664.00		0.94	
Dirt Room Option 1			P.A. & A.V. Systems	664.00 664.00		0.55 0.29	
Dirt Room Option 1 Dirt Room Option 1			TV System Fire Alarm	664.00		1.88	
Dirt Room Option 1			Coordination Drawings	664.00		0.22	
Dirt Room Option 1			Demolition	664.00		0.80	
Dirt Room Option 1							
Dirt Room Option 1	11.00	MARK-UPS	Subtotal				158,696.54
Dirt Room Option 1			General Conditions	15.00%			23,804.48
Dirt Room Option 1 Dirt Room Option 1			Subtotal GC OH @ 5% plus Profit @ 7.5%	12.50%			182,501.02 22,812.63
Dirt Room Option 1			Subtotal	12.50%			205.313.65
Dirt Room Option 1			Bonds & insurance	1.75%			3,592.99
Dirt Room Option 1			Subtotal	664.00		\$314.62	
puon 1				551.00		ŢZ	

**COST ESTIMATE** 





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Revision 2								
Report:	Feasibility	Study Const Cost Estimate		Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Project:	Williamsb	urg MS Capacity Study		6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Location:	Arlington	Public Schools		Warrenton, Virginia 20187	Submissn:	January 19, 2016 Jol		Job no: 15129
Documents Dated:	January 8	, 2016		Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
				www.downeyscott.com	Revised:	February 17	', 2016	
			•					
LOC REF	SYS#	UNIFORMAT SYSTEM		SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION

2,236.00 Gross Square Feet

Chckd by: fs/sm Job no: 15129

#### Dirt Room Option 2

CONSTRUCTIO	N COSTS		Total	2,236.00 Gross	Square Feet
			O vitad for a vid	Cost per SF	0000 040
Dirt Room Option 2	Renovation		Carried forward	272.51	\$609,342
Dirt Room Option 2					
Dirt Room Option 2	Subtotal				\$609,342
Dirt Room Option 2	Escalation to construction mid point	Bid 2017, Complete 2017	5.51%		\$33,590
Dirt Room Option 2	Subtotal				\$642,932
Dirt Room Option 2	Design Contingency		15.00%		\$96,440
Dirt Room Option 2	Subtotal				\$739,371
Dirt Room Option 2	Construction Contingency		8.00%		\$59,150
Dirt Room Option 2				Cost per SF	
Dirt Room Option 2	Total Hard Construction Costs Base E	Bid		<u>\$357.12</u>	<i>\$798,521</i>
Dirt Room Option 2					
Dirt Room Option 2	Project Soft Cost - A/E Fees, F.F.&E., Owner	er Staffing, Owner Costs	23.50%		\$187,652
Dirt Room Option 2				Cost per SF	
Dirt Room Option 2	Total Hard Construction Costs Base Bid &	Soft Cost		<u>\$441.04</u>	<u>\$986,174</u>
Dirt Room Option 2					
Dirt Room Option 2					

Prepared by: Downey & Scott, LLC

6799 Kennedy Road, Suite F

Status: Client:

Concept VMDO

Dit Roam Option 2	Project: Location: Documents Dated:		ourg MS Capacity Study Public Schools 3, 2016	6799 Kennedy Road, Sulte F Warrenton, Virginia 20187 Ph 540.347.5001 Fax 540.347.5021 www.downeyscott.com	Client: Submissn: Run Date: Revised:	January See foote	19, 2016 Ja er	nckd by: fs/sm ib no: 15129
BILDING   DIT RECON Option 2   00.05   SELECT BLDG. DEMO   Demolition   2,236.00 GSF   6.50   14,534.00   DIT RECON Option 2   01.00   FOUNDATIONS   Foundations   2,236.00 GSF   11.80   26,384.80   DIT RECON Option 2   01.00   FOUNDATIONS   Foundations   2,236.00 GSF   11.80   26,384.80   DIT RECON Option 2   01.00   SUBSTRUCTURE   SOG - patch existing floor   2,236.00 GSF   11.80   37,117.60   DIT RECON Option 2   01.00   DIT RECON Option 2   01.00   SUBSTRUCTURE   ROOf framing & deck   0.00 SF   21.00   0.00 SF   16.60   0.00 SF   0.0	LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
BILDING   DIT RECON Option 2   00.05   SELECT BLDG. DEMO   Demolition   2,236.00 GSF   6.50   14,534.00   DIT RECON Option 2   01.00   FOUNDATIONS   Foundations   2,236.00 GSF   11.80   26,384.80   DIT RECON Option 2   01.00   FOUNDATIONS   Foundations   2,236.00 GSF   11.80   26,384.80   DIT RECON Option 2   01.00   SUBSTRUCTURE   SOG - patch existing floor   2,236.00 GSF   11.80   37,117.60   DIT RECON Option 2   01.00   DIT RECON Option 2   01.00   SUBSTRUCTURE   ROOf framing & deck   0.00 SF   21.00   0.00 SF   16.60   0.00 SF   0.0								
Det   Det		00.00		PUII DING				
Der IR Groun Option 2   0.5		00.00		BUILDING				
Dit Room Option 2		00.50	SELECT BLDG. DEMO	Demolition	2.236.0	GSF	6.50	14,534.00
Dit Room Option 2					_,			,
Dit Room Option 2		01.00	FOUNDATIONS	Foundations	2,236.0	) GSF	11.80	26,384.80
Dit Room Option 2   Dit								
DIT ROOM Option 2	Dirt Room Option 2	02.00	SUBSTRUCTURE	SOG - patch existing floor	2,236.0	) SF	16.60	37,117.60
Dir Room Option 2	Dirt Room Option 2							
Dit Room Option 2	Dirt Room Option 2	03.00	SUPERSTRUCTURE	Roof framing & deck	0.0	0 SF	21.00	0.00
Dirk Room Option 2	Dirt Room Option 2			Misc metals	2,236.0	) GSF	1.55	3,465.80
Dirk Room Option 2	Dirt Room Option 2			Misc Wood Blocking	2,236.0	) GSF	0.75	1,677.00
Dirt Room Option 2   Virt Ro	Dirt Room Option 2							
Dirt Room Option 2   Storeffront entrances   0.00 SF   55.00   0.00	Dirt Room Option 2	04.00	EXTERIOR CLOSURE	Perimeter Wall	4,248.0	) SF		87,084.00
Dirt Room Option 2   Dirt Ro								
Dirt Room Option 2								0.00
Dirt Room Option 2   05.00   ROOFING   Low slope membrane w/ flashing & copings   0.00   SF   12.50   0.00				Misc. w.p./caulk/fire sealants/etc. Div 7	2,236.0	) GSF	0.73	1,621.10
Dirt Room Option 2   Doors, frames, hardware, sidelites   G.000 EA   2,500.00   15,000.00							40.50	
Dirt Room Option 2   06.00   INTERIOR CONST   Mtl stud & GWB partitions, hi-impact   7,236.00 SF   10.25   74,169.00		05.00	ROOFING	Low slope membrane w/ flashing & copings	0.0	) SF	12.50	0.00
Dirt Room Option 2         GWB ceilings/bulkheads         2,236.00 GSF         0.15         335.4           Dirt Room Option 2         Misc. batt insulation         2,236.00 GSF         0.45         1,006.2           Dirt Room Option 2         Sound transmission control insulation         2,236.00 GSF         0.19         424.8           Dirt Room Option 2         Interior glass at interior partition allowance         2,236.00 GSF         0.19         424.8           Dirt Room Option 2         Doors, frames, hardware, sidelites         6.00 EA         2,500.00         15,000.0           Dirt Room Option 2         Acoustic ceiling, avg         2,236.00 GSF         2.75         6,149.0           Dirt Room Option 2         Prem. ceilings: main corridors / mtg. rms, prem add         447.20 GSF         1.75         782.6           Dirt Room Option 2         Premium wall finish: main corridors & conf. rm         2,236.00 GSF         0.75         1,677.0           Dirt Room Option 2         CT floor, base, walls in restrooms         314.00 SF         18.50         5,809.0           Dirt Room Option 2         CT winscot hallways/restrooms         570.00 SF         12.50         7,125.0           Dirt Room Option 2         Vinyl Floor/vinyl base         1,922.00 SF         3.75         7,207.5           Dirt Room Option 2		00.00	INTERIOR CONST	MALI at and 9 CNAID monthly are the improved	7 226 0	۰.۰۰	10.05	74.400.00
Dirt Room Option 2         Misc. batt insulation         2,236.00 GSF         0.45         1,006.2           Dirt Room Option 2         Sound transmission control insulation         2,236.00 GSF         0.19         424.8           Dirt Room Option 2         Interior glass at interior partition allowance         2,236.00 SF         0.38         838.5           Dirt Room Option 2         Doors, frames, hardware, sidelites         6.00 EA         2,500.00         15,000.0           Dirt Room Option 2         Acoustic ceiling, avg         2,236.00 GSF         2.75         6,149.0           Dirt Room Option 2         Prem. ceillings: main corridors / mtg. rms, prem add         447.20 GSF         1.75         726.6           Dirt Room Option 2         Premium wall finish: main corridors & conf. rm         2,236.00 GSF         0.75         1,677.0           Dirt Room Option 2         CT floor, base, walls in restrooms         314.00 SF         18.50         5,809.0           Dirt Room Option 2         CT wainscot hallways/restrooms         570.00 SF         12.50         7,125.0           Dirt Room Option 2         Vinyl Floor/vinyl base         1,922.00 SF         3.7         7,275.5           Dirt Room Option 2         Wood flooring         0.00 SF         43.00         0.0           Dirt Room Option 2         Wood		06.00	INTERIOR CONST					
Dirt Room Option 2   Sound transmission control insulation								
Dirt Room Option 2         Interior glass at interior partition allowance         2,236.00 SF         0.38         838.5           Dirt Room Option 2         Doors, frames, hardware, sidelites         6.00 EA         2,500.00         15,000.0           Dirt Room Option 2         Acoustic ceiling, avg         2,236.00 GSF         2.75         6,149.0           Dirt Room Option 2         Prem. ceilings: main corridors / mtg. rms, prem add         447.20 GSF         1.75         782.6           Dirt Room Option 2         Premium wall finish: main corridors & conf. rm         2,236.00 GSF         0.75         1,677.0           Dirt Room Option 2         CT floor, base, walls in restrooms         314.00 SF         18.50         5,809.0           Dirt Room Option 2         CT wainscot hallways/restrooms         570.00 SF         12.50         7,125.0           Dirt Room Option 2         Vinyl Floor/vinyl base         1,922.00 SF         3.75         7,207.5           Dirt Room Option 2         Carpet         0.00 SY         43.00         0.0           Dirt Room Option 2         Wood flooring         0.00 SF         16.50         0.0           Dirt Room Option 2         Rubber Athletic Flooring         432.00 SF         12.50         5,400.0           Dirt Room Option 2         Painting         2,236.00 GSF </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Dirt Room Option 2         Doors, frames, hardware, sidelites         6.00 EA         2,500.00         15,000.00           Dirt Room Option 2         Acoustic ceiling, avg         2,236.00 GSF         2.75         6,149.00           Dirt Room Option 2         Prem. ceilings: main corridors / mtg. rms, prem add         447.20 GSF         1.75         782.6           Dirt Room Option 2         Premium wall finish: main corridors & conf. rm         2,236.00 GSF         0.75         1,677.0           Dirt Room Option 2         CT floor, base, walls in restrooms         314.00 SF         18.50         5,809.0           Dirt Room Option 2         CT wainscot hallways/restrooms         570.00 SF         12.50         7,125.0           Dirt Room Option 2         Vinyl Floor/vinyl base         1,922.00 SF         3,75         7,207.5           Dirt Room Option 2         Carpet         0.00 SY         43.00         0.0           Dirt Room Option 2         Wood flooring         0.00 SF         16.50         0.0           Dirt Room Option 2         Rubber Athletic Flooring         432.00 SF         12.50         5,400.0           Dirt Room Option 2         Painting         2,236.00 GSF         2.25         5,031.0           Dirt Room Option 2         Rubber Athletic Flooring         432.00 SF         12.5					,			
Dirt Room Option 2         Acoustic ceiling, avg         2,236.00 GSF         2.75         6,149.0           Dirt Room Option 2         Prem. ceilings: main corridors / mtg. rms, prem add         447.20 GSF         1.75         782.6           Dirt Room Option 2         Premium wall finish: main corridors & conf. rm         2,236.00 GSF         0.75         1,677.0           Dirt Room Option 2         CT floor, base, walls in restrooms         314.00 SF         18.50         5,809.0           Dirt Room Option 2         CT wainscot hallways/restrooms         570.00 SF         12.50         7,125.0           Dirt Room Option 2         Vinyl Floor/vinyl base         1,922.00 SF         3.75         7,207.5           Dirt Room Option 2         Carpet         0.00 SF         43.00         0.0           Dirt Room Option 2         Wood flooring         0.00 SF         16.50         0.0           Dirt Room Option 2         Wood flooring         432.00 SF         12.50         5,400.0           Dirt Room Option 2         Paintling         2,236.00 GSF         2.25         5,031.0           Dirt Room Option 2         Paintling         2,236.00 GSF         2.25         5,031.0           Dirt Room Option 2         Paintling         2,236.00 GSF         2.25         5,031.0								
Dirt Room Option 2         Prem. ceilings: main corridors / mtg. rms, prem add         447.20 GSF         1.75         782.6           Dirt Room Option 2         Premium wall finish: main corridors & conf. rm         2,236.00 GSF         0.75         1,677.0           Dirt Room Option 2         CT floor, base, walls in restrooms         314.00 SF         18.50         5,890.0           Dirt Room Option 2         CT wainscot hallways/restrooms         570.00 SF         12.50         7,125.0           Dirt Room Option 2         Vinyl Floor/vinyl base         1,922.00 SF         3.75         7,207.5           Dirt Room Option 2         Carpet         0.00 SY         43.00         0.0           Dirt Room Option 2         Wood flooring         0.00 SF         16.50         0.0           Dirt Room Option 2         Rubber Athletic Flooring         432.00 SF         12.50         5,400.0           Dirt Room Option 2         Painting         2,236.00 GSF         2.25         5,031.0           Dirt Room Option 2         Misc cut and patching         2,236.00 GSF         0.30         670.8								
Dirt Room Option 2         Premium wall finish: main corridors & conf. rm         2,236.00 GSF         0.75         1,677.0           Dirt Room Option 2         CT floor, base, walls in restrooms         314.00 SF         18.50         5,809.0           Dirt Room Option 2         CT wainscot hallways/restrooms         570.00 SF         12.50         7,125.0           Dirt Room Option 2         Vinyl Floor/vinyl base         1,922.00 SF         3,75         7,207.5           Dirt Room Option 2         Carpet         0.00 SY         43.00         0.0           Dirt Room Option 2         Wood flooring         0.00 SF         16.50         0.0           Dirt Room Option 2         Rubber Athletic Flooring         432.00 SF         12.50         5,400.0           Dirt Room Option 2         Painting         2,236.00 GSF         2.25         5,031.0           Dirt Room Option 2         Misc cut and patching         2,236.00 GSF         0.30         670.8								782.60
Dirt Room Option 2         CT floor, base, walls in restrooms         314.00 SF         18.50         5,809.0           Dirt Room Option 2         CT wainscot hallways/restrooms         570.00 SF         12.50         7,125.0           Dirt Room Option 2         Vinyl Floor/vinyl base         1,922.00 SF         3.75         7,207.5           Dirt Room Option 2         Carpet         0.00 SY         43.00         0.0           Dirt Room Option 2         Wood flooring         0.00 SF         16.50         0.0           Dirt Room Option 2         Rubber Athletic Flooring         432.00 SF         12.50         5,400.0           Dirt Room Option 2         Painting         2,236.00 GSF         2.25         5,031.0           Dirt Room Option 2         Misc cut and patching         2,236.00 GSF         0.30         670.8								1,677.00
Dirt Room Option 2         CT wainscot hallways/restrooms         570.00 SF         12.50         7,125.0           Dirt Room Option 2         Vinyl Floor/vinyl base         1,922.00 SF         3.75         7,207.5           Dirt Room Option 2         Carpet         0.00 SY         43.00         0.0           Dirt Room Option 2         Wood flooring         0.00 SF         16.50         0.0           Dirt Room Option 2         Rubber Athletic Flooring         432.00 SF         12.50         5,400.0           Dirt Room Option 2         Painting         2,236.00 GSF         2.25         5,031.0           Dirt Room Option 2         Misc cut and patching         2,236.00 GSF         0.30         670.8								5,809.00
Dirt Room Option 2         Vinyl Floor/vinyl base         1,922.00 SF         3.75         7,207.5           Dirt Room Option 2         Carpet         0.00 SY         43.00         0.0           Dirt Room Option 2         Wood flooring         0.00 SF         16.50         0.0           Dirt Room Option 2         Rubber Athletic Flooring         432.00 SF         12.50         5,400.0           Dirt Room Option 2         Painting         2,236.00 GSF         2.25         5,031.0           Dirt Room Option 2         Misc cut and patching         2,236.00 GSF         0.30         670.8								7,125.00
Dirt Room Option 2         Carpet         0.00 SY         43.00         0.0           Dirt Room Option 2         Wood flooring         0.00 SF         16.50         0.0           Dirt Room Option 2         Rubber Athletic Flooring         432.00 SF         12.50         5,400.0           Dirt Room Option 2         Painting         2,236.00 GSF         2.25         5,031.0           Dirt Room Option 2         Misc cut and patching         2,236.00 GSF         0.30         670.8								7,207.50
Dirt Room Option 2         Wood flooring         0.00 SF         16.50         0.0           Dirt Room Option 2         Rubber Athletic Flooring         432.00 SF         12.50         5,400.0           Dirt Room Option 2         Painting         2,236.00 GSF         2.25         5,031.0           Dirt Room Option 2         Misc cut and patching         2,236.00 GSF         0.30         670.8								0.00
Dirt Room Option 2         Painting         2,236.00 GSF         2.25         5,031.0           Dirt Room Option 2         Misc cut and patching         2,236.00 GSF         0.30         670.8	Dirt Room Option 2				0.0	) SF	16.50	0.00
Dirt Room Option 2 Misc cut and patching 2,236.00 GSF 0.30 670.8	Dirt Room Option 2			Rubber Athletic Flooring	432.0	) SF	12.50	5,400.00
	Dirt Room Option 2			Painting	2,236.0	GSF		5,031.00
Dirt Room Option 2	Dirt Room Option 2			Misc cut and patching	2,236.0	) GSF	0.30	670.80
	Dirt Room Option 2							

Revision 2							
Report:		ty Study Const Cost Estimate	Prepared by: Downey & Scott, LLC	Status:	Concept	PM: ct	
Project:		burg MS Capacity Study	6799 Kennedy Road, Suite F	Client:	VMDO		by: fs/sm
Location:		n Public Schools	Warrenton, Virginia 20187	Submissn:	January 19	), 2016 Job no:	: 15129
Documents Dated:	January	8, 2016	Ph 540.347.5001 Fax 540.347.5021	Run Date: Revised:	See footer	7 2016	
			www.downeyscott.com	Reviseu.	February 1	7, 2010	
LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
Dirt Room Option 2	07.00	SPECIAL EQUIPMENT	Toilet partitions/accessories	16.00	EA	325.00	5,200.00
Dirt Room Option 2			Window treatment	2,236.00		0.45	1,006.20
Dirt Room Option 2			General casework	16.00		255.00	4,080.00
Dirt Room Option 2			General millwork	2,236.00		0.45	1,006.20
Dirt Room Option 2			Visual display MB & TB	2,236.00		1.00	2,236.00
Dirt Room Option 2			Kitchen / faculty lounge appliances allowance	0.00		10,000.00	0.00
Dirt Room Option 2 Dirt Room Option 2			Misc spec. dr signs/f.e./jan shelving/etc. Student desks and work stations	2,236.00	GSF	1.50 Refer to FF&E	3,354.00
Dirt Room Option 2			Office furnishings, sofas and chairs			Refer to FF&E	
Dirt Room Option 2			Cinde farillorings, solids and chairs			ricion to 11 de	
Dirt Room Option 2	08.00	CONVEYING				Not Included	
Dirt Room Option 2							
Dirt Room Option 2	09.00	MECHANICAL HVAC	HVAC Equipment	2,236.00	GSF	13.50	30,186.00
Dirt Room Option 2			Piping & Valves	2,236.00	GSF	4.97	11,118.51
Dirt Room Option 2			Ductwork - modify existing	2,236.00	GSF	4.97	11,118.51
Dirt Room Option 2			Air Outlets - replace existing	2,236.00	GSF	0.59	1,319.24
Dirt Room Option 2			Ductwork Accessories	2,236.00		0.72	1,609.92
Dirt Room Option 2			Insulation	2,236.00		1.95	4,360.20
Dirt Room Option 2			Temperature Controls	2,236.00		4.10	9,167.60
Dirt Room Option 2			Air & Water Balance	2,236.00		0.33	737.88
Dirt Room Option 2			Coordination Drawings Systems Operation & Testing	2,236.00 2,236.00		0.22 0.25	491.92 559.00
Dirt Room Option 2 Dirt Room Option 2			Demolition	2,236.00		0.85	1,900.60
Dirt Room Option 2			Demonition	2,230.00	GGI	0.65	1,900.00
Dirt Room Option 2							
Dirt Room Option 2	9.20	PLUMBING	Demolition	2,236.00	GSF	0.45	1,006.20
Dirt Room Option 2			Water Closet	3.00	EA	1,150.00	3,450.00
Dirt Room Option 2			Urinal	1.00	EA	995.00	995.00
Dirt Room Option 2			Lavatory	4.00	EA	675.00	2,700.00
Dirt Room Option 2			Domestic Water Piping	2,236.00	GSF	0.50	1,112.41
Dirt Room Option 2			DWV Piping	2,236.00	GSF	0.37	816.14
Dirt Room Option 2			Storm Piping			Existing to Remain	
Dirt Room Option 2			Gas Piping			Existing to Remain	
Dirt Room Option 2			Plumbing Insulation	2,236.00	GSF	0.14	313.04
Dirt Room Option 2			Coordination Drawings			Not Included	
Dirt Room Option 2	9.30	FIRE SPRINKLER	Sprinkler - modfy existing	2,236.00	GSE	3.50	7,826.00
Dirt Room Option 2 Dirt Room Option 2	5.50	FIRE SPRINKLER	Fire Pump	2,230.00	GGI	Not Included	7,020.00
Dirt Room Option 2			riierump			Not included	
Dirt Room Option 2	10.00	ELECTRICAL	Switchboards			Existing to Remain	
Dirt Room Option 2	10.00	LLLOTRIONL	Panelboards - modify existing	2,236.00	GSF	0.25	547.82
Dirt Room Option 2			Bus Duct & Transformers	_,		Existing to Remain	
Dirt Room Option 2			Generator, 150 KW/Automatic Transfer Switches			Existing to Remain	
Dirt Room Option 2			Light Fixtures - based on T5/LED fixtures	2,236.00	GSF	6.40	14,310.40
Dirt Room Option 2			Light Switches, includes DDC control connections	2,236.00	GSF	1.25	2,795.00
Dirt Room Option 2			Power Outlets	2,236.00	GSF	0.95	2,124.20
Dirt Room Option 2			Safety Cabinets & Disconnects			Existing to Remain	
Dirt Room Option 2			Power Feeders		005	Existing to Remain	
Dirt Room Option 2			Power Home Runs	2,236.00		2.20	4,919.20
Dirt Room Option 2			Power Branches	2,236.00 2,236.00		0.85 1.15	1,900.60 2,571.40
Dirt Room Option 2 Dirt Room Option 2			Lighting Home Runs Lighting Branches			1.05	
Dirt Room Option 2			Grounding/Lightning Protection	2,236.00	001	Existing to Remain	2,347.80
Dirt Room Option 2			Clock System	2,236.00	GSF	0.45	1,006.20
Dirt Room Option 2			Phone/Data System	2,236.00		3.90	8,720.40
Dirt Room Option 2			Security System	2,236.00	GSF	0.94	2,101.84
Dirt Room Option 2			P.A. & A.V. Systems	2,236.00	GSF	0.55	1,229.80
Dirt Room Option 2			TV System	2,236.00		0.29	648.44
Dirt Room Option 2			Fire Alarm	2,236.00		1.88	4,203.68
Dirt Room Option 2			Coordination Drawings	2,236.00		0.22	491.92
Dirt Room Option 2			Demolition	2,236.00	GSF	0.80	1,788.80
Dirt Room Option 2	44.00	MADICUDO	Cultitatal				400 000 0
Dirt Room Option 2	11.00	MARK-UPS	Subtotal	45.0001			462,888.21
Dirt Room Option 2			General Conditions Subtotal	15.00%			69,433.23 532,321.44
Dirt Room Option 2 Dirt Room Option 2			GC OH @ 5% plus Profit @ 7.5%	12.50%			66,540.18
Dirt Room Option 2  Dirt Room Option 2			Subtotal	12.5070			598,861.62
Dirt Room Option 2			Bonds & insurance	1.75%			10,480.08
Dirt Room Option 2			Subtotal	2,236.00	GSF	\$272.51	609,341.70
				_,	-		,

COST ESTIMATE



Feasibility Study Const Cost Estimate Williamsburg MS Capacity Study

Revision 2								
Report:	Feasibility	Study Const Cost Estimate		Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Project:	Williamsbu	urg MS Capacity Study		6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Location:	Arlington I	Public Schools		Warrenton, Virginia 20187	Submissn:	January 19,	2016	Job no: 15129
Documents Dated:	January 8,	2016		Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
				www.downeyscott.com	Revised:	February 17	, 2016	
LOC REF	SYS#	UNIFORMAT SYSTEM	·	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION

1,664.00 Gross Square Feet

#### Cafeteria Option

	WO		Total	1,664.00 Gross	Square Feet
CONSTRUCT	ION COSTS			Cost per SF	
Cafeteria Option	Renovation		Carried forward	23.77	\$39,554
Cafeteria Option					
Cafeteria Option	Subtotal				\$39,554
Cafeteria Option	Escalation to construction mid point	Bid 2017, Complete 2017	5.51%		\$2,180
Cafeteria Option	Subtotal				\$41,734
Cafeteria Option	Design Contingency		15.00%		\$6,260
Cafeteria Option	Subtotal				\$47,994
Cafeteria Option	Construction Contingency		8.00%		\$3,840
Cafeteria Option				Cost per SF	
Cafeteria Option	Total Hard Construction Costs Base	Bid		<u>\$31.15</u>	<u>\$51,834</u>
Cafeteria Option					
Cafeteria Option	Project Soft Cost - A/E Fees, F.F.&E., Own	ner Staffing, Owner Costs	23.50%		\$12,181
Cafeteria Option				Cost per SF	
Cafeteria Option	Total Hard Construction Costs Base Bid	& Soft Cost		<u>\$38.47</u>	<u>\$64,015</u>
Cafeteria Option					

LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
			www.downeyscott.com	Revised:	February 17	, 2016	
Documents Dated:	January 8	2016	Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
Location:	Arlington	Public Schools	Warrenton, Virginia 20187	Submissn:	January 19,	2016	Job no: 15129
Project:	Williamsb	urg MS Capacity Study	6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Report:	Feasibility	Study Const Cost Estimate	Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Revision 2							

Cafeteria Option						
Cafeteria Option	00.00		BUILDING			
Cafeteria Option						
Cafeteria Option	00.50	SELECT BLDG. DEMO	Demolition	1,664.00 GSF	4.50	7,488.00
Cafeteria Option						
Cafeteria Option	01.00	FOUNDATIONS			Not Included	
Cafeteria Option						
Cafeteria Option	02.00	SUBSTRUCTURE	SOG - patch existing floor	166.40 SF	8.30	1,381.12
Cafeteria Option						
Cafeteria Option	03.00	SUPERSTRUCTURE	Roof framing & deck	0.00 SF	21.00	0.00
Cafeteria Option			Misc metals	0.00 GSF	1.55	0.00
Cafeteria Option			Misc Wood Blocking	0.00 GSF	0.75	0.00
Cafeteria Option						
Cafeteria Option	04.00	EXTERIOR CLOSURE	Perimeter Wall		Existing to Remain	
Cafeteria Option			Windows		Existing to Remain	
Cafeteria Option			Storefront entrances	0.00 SF	55.00	0.00
Cafeteria Option			Misc. w.p./caulk/fire sealants/etc. Div 7	0.00 GSF	0.73	0.00
Cafeteria Option						
Cafeteria Option	05.00	ROOFING	Low slope membrane w/ flashing & copings	0.00 SF	12.50	0.00
Cafeteria Option						
Cafeteria Option	06.00	INTERIOR CONST	Mtl stud & GWB partitions, hi-impact	456.00 SF	10.25	4,674.00
Cafeteria Option			GWB ceilings/bulkheads	0.00 GSF	0.15	0.00
Cafeteria Option			Misc. batt insulation	0.00 GSF	0.45	0.00
Cafeteria Option			Sound transmission control insulation	0.00 GSF	0.19	0.00
Cafeteria Option			Interior glass at interior partition allowance	0.00 GSF	0.38	0.00
Cafeteria Option			Doors, frames, hardware, sidelites	0.00 EA	2,500.00	0.00
Cafeteria Option			Acoustic ceiling - patch	832.00 GSF	2.75	2,288.00
Cafeteria Option			Prem. ceilings: main corridors / mtg. rms, prem add	0.00 GSF	1.75	0.00
Cafeteria Option			Premium wall finish: main corridors & conf. rm	0.00 GSF	0.75	0.00
Cafeteria Option			CT floor, base, walls in restrooms	0.00 SF	18.50	0.00
Cafeteria Option			CT wainscot hallways/restrooms	0.00 SF	12.50	0.00
Cafeteria Option			Vinyl Floor/vinyl base - patch	832.00 SF	3.75	3,120.00
Cafeteria Option			Carpet	0.00 SY	43.00	0.00
Cafeteria Option			Wood flooring	0.00 SF	16.50	0.00
Cafeteria Option			Rubber Athletic Flooring	0.00 SF	12.50	0.00
Cafeteria Option			Painting	1,664.00 GSF	2.25	3,744.00
Cafeteria Option			Misc cut and patching	1,664.00 GSF	0.30	499.20
Cafeteria Option			· -			

ī <del></del>							
Revision 2							
Report:		y Study Const Cost Estimate	Prepared by: Downey & Scott, LLC	Status:	Concept	PM: ct	
Project:		ourg MS Capacity Study	6799 Kennedy Road, Sulte F	Client:	VMDO		oy: fs/sm
Location:	0	Public Schools	Warrenton, Virginia 20187	Submissn:	January		15129
Documents Dated:	January 8	8, 2016	Ph 540.347.5001 Fax 540.347.5021	Run Date:	See foot		
	1	1	www.downeyscott.com	Revised:	rebruary	17, 2016	
LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
Cafeteria Option	07.00	SPECIAL EQUIPMENT	Toilet partitions/accessories	0.0	0 EA	325.00	0.00
Cafeteria Option			Window treatment	0.0	0 GSF	0.45	0.00
Cafeteria Option			General casework	0.00	0 LF	255.00	0.00
Cafeteria Option			General millwork		0 GSF	0.45	0.00
Cafeteria Option			Visual display MB & TB		0 GSF	1.00	0.00
Cafeteria Option			Kitchen / faculty lounge appliances allowance		0 LS	10,000.00	0.00
Cafeteria Option			Misc spec. dr signs/f.e./jan shelving/etc.	0.00	0 GSF	1.50	0.00
Cafeteria Option			Student desks and work stations			Refer to FF&E	
Cafeteria Option			Office furnishings, sofas and chairs			Refer to FF&E	
Cafeteria Option Cafeteria Option	08.00	CONVEYING				Not Included	
Cafeteria Option Cafeteria Option	09.00	MECHANICAL HVAC				Not Included	
Cafeteria Option	0.00	DLUMBING				Not be dead of	
Cafeteria Option Cafeteria Option	9.20	PLUMBING				Not Included	
Cafeteria Option Cafeteria Option	9.30	FIRE SPRINKLER				Not Included	
Cafeteria Option	10.00	ELECTRICAL	Switchboards			Existing to Remain	
Cafeteria Option			Panelboards - modify existing			Existing to Remain	
Cafeteria Option			Bus Duct & Transformers			Existing to Remain	
Cafeteria Option Cafeteria Option			Generator, 150 KW/Automatic Transfer Switches Light Fixtures - modify existing	1,664.00	n GSE	Existing to Remain 2.56	4.259.84
Cafeteria Option			Light Switches, includes DDC control connections	1,664.00		1.25	2.080.00
Cafeteria Option			Power Outlets - modify existing	1,664.0		0.48	790.40
Cafeteria Option			Safety Cabinets & Disconnects			Existing to Remain	
Cafeteria Option			Power Feeders			Existing to Remain	
Cafeteria Option			Power Home Runs - modify existing			Existing to Remain	
Cafeteria Option			Power Branches - modify existing	1,664.00	0 GSF	0.43	707.20
Cafeteria Option			Lighting Home Runs - modify existing	4 004 0	0.005	Existing to Remain	070.00
Cafeteria Option			Lighting Branches - modify existing Grounding/Lightning Protection	1,664.00	U GSF	0.53 Existing to Remain	873.60
Cafeteria Option Cafeteria Option			Clock System			Existing to Remain	
Cafeteria Option			Phone/Data System			Existing to Remain	
Cafeteria Option			Security System			Existing to Remain	
Cafeteria Option			P.A. & A.V. Systems			Existing to Remain	
Cafeteria Option			TV System			Existing to Remain	
Cafeteria Option			Fire Alarm - modify existing			Existing to Remain	
Cafeteria Option			Coordination Drawings		0 GSF	0.22	0.00
Cafeteria Option			Demolition	1,664.00	U GSF	0.40	665.60
Cafeteria Option Cafeteria Option	11.00	MARK-UPS	Subtotal				32,570.96
Cafeteria Option	11.00	MAINI-OFO	General Conditions	10.00%	6		3.257.10
Cafeteria Option			Subtotal	10.007	•		35.828.06
Cafeteria Option			GC OH @ 4% plus Profit @ 4.5%	8.50%	6		3,045.38
Cafeteria Option			Subtotal				38,873.44
Cafeteria Option			Bonds & insurance	1.75%			680.29
Cafeteria Option			Subtotal	1,664.00	0 GSF	\$23.77	39,553.73

**COST ESTIMATE** 



LOC REF	SYS#	UNIFORMAT SYSTEM		SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSIO
			•					
				www.downeyscott.com	Revised:	February 17	, 2016	
Documents Dated:	January 8	, 2016		Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
Location:	Arlington	Public Schools		Warrenton, Virginia 20187	Submissn:	January 19,	2016	Job no: 15129
Project:	Williamsb	urg MS Capacity Study		6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Report:	Feasibility	Study Const Cost Estimate		Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Revision 2								

#### Second Floor Addition

	Renovation	8,000.00 Gross Square Feet
	Total	8,000.00 Gross Square Feet
CONSTRUCTION COSTS		

				Cost per SF	
Second Floor Addition	Addition		Carried forward	320.82	\$2,566,594
Second Floor Addition					
Second Floor Addition	Subtotal				\$2,566,594
Second Floor Addition	Escalation to construction mid point	Bid 2017, Complete 2017	5.51%		\$141,483
Second Floor Addition	Subtotal				\$2,708,077
Second Floor Addition	Design Contingency		15.00%		\$406,212
Second Floor Addition	Subtotal				\$3,114,289
Second Floor Addition	Construction Contingency		8.00%		\$249,143
Second Floor Addition	•			Cost per SF	
Second Floor Addition	Total Hard Construction Costs Base Bi	id		\$420.43	\$3,363,432
Second Floor Addition					<u> </u>
Second Floor Addition	Project Soft Cost - A/E Fees, F.F.&E., Owner	r Staffing, Owner Costs	23.50%		\$790,407
Second Floor Addition				Cost per SF	
Second Floor Addition	Total Hard Construction Costs Base Bid & S	Soft Cost		\$519.23	\$4.153.839

LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
			www.downeyscott.com	Revised:	February 17	, 2016	
Documents Dated:	January 8	3, 2016	Ph 540.347.5001 Fax 540.347.5021	Run Date:	See footer		
Location:	Arlington	Public Schools	Warrenton, Virginia 20187	Submissn:	January 19,	2016	Job no: 15129
Project:	Williamsb	urg MS Capacity Study	6799 Kennedy Road, Suite F	Client:	VMDO		Chckd by: fs/sm
Report:	Feasibility	Study Const Cost Estimate	Prepared by: Downey & Scott, LLC	Status:	Concept		PM: ct
Revision 2							

LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY U/M	UNIT COST	EXTENSION
Second Floor Addition						
Second Floor Addition	00.00		BUILDING			
Second Floor Addition						
Second Floor Addition	00.50	SELECT BLDG. DEMO	Demolition	8,000.00 GSF	4.50	36,000.00
Second Floor Addition			Misc. demo at tie-in	1.00 LS	35,000.00	35,000.00
Second Floor Addition			Misc. prep/patch	1.00 LS	17,500.00	17,500.00
Second Floor Addition			Misc R&R for MEP tie-ins	1.00 LS	9,500.00	9,500.00
Second Floor Addition			Segregated debris disposal off site	130.00 CY	30.00	3,900.00
Second Floor Addition						
Second Floor Addition	01.00	FOUNDATIONS	Foundations	8,000.00 GSF	5.90	47,200.00
Second Floor Addition						
Second Floor Addition	02.00	SUBSTRUCTURE	SOG - patch existing floor	2,000.00 SF	8.30	16,600.00
Second Floor Addition						
Second Floor Addition	03.00	SUPERSTRUCTURE	2nd floor framing & deck	8,000.00 GSF	11.85	94,800.00
Second Floor Addition			SOMD for 2nd	8,000.00 GSF	5.00	40,000.00
Second Floor Addition			Roof framing & deck	8,000.00 GSF	8.75	70,000.00
Second Floor Addition			Stairways	0.00 EA	31,250.00	0.03
Second Floor Addition			Roof framing & deck	8,000.00 GSF	21.00	168,000.00
Second Floor Addition			Misc metals	8,000.00 GSF	1.55	12,400.00
Second Floor Addition			Misc Wood Blocking	8,000.00 GSF	0.75	6,000.00
Second Floor Addition						
Second Floor Addition	04.00	EXTERIOR CLOSURE	Exterior Wall - Brick/CMU composite walls - 12 inch	7,376.00 SF	52.00	383,552.00
Second Floor Addition			Exterior wall vapor barrier	7,376.00 SF	3.75	27,660.00
Second Floor Addition			Windows	2,581.60 SF	45.00	116,172.00
Second Floor Addition			Storefront entrances	8,000.00 GSF	1.05	8,400.00
Second Floor Addition			Doors, frames, hardware, sidelites	8,000.00 GSF	0.45	3,600.00
Second Floor Addition			Misc. w.p./caulk/fire sealants/etc. Div 7	8,000.00 GSF	0.73	5,800.00
Second Floor Addition						
Second Floor Addition	05.00	ROOFING	Low slope membrane w/ flashing & copings	8,000.00 SF	12.50	100,000.00
Second Floor Addition						
Second Floor Addition	06.00	INTERIOR CONST	Mtl stud & GWB partitions, hi-impact	6,860.00 SF	10.25	70,315.00
Second Floor Addition			GWB ceilings/bulkheads	8,000.00 GSF	0.15	1,200.00
Second Floor Addition			Misc. batt insulation	8,000.00 GSF	0.45	3,600.00
Second Floor Addition			Sound transmission control insulation	8,000.00 GSF	0.19	1,520.00
Second Floor Addition			Interior glass at interior partition allowance	8,000.00 SF	0.38	3,000.00
Second Floor Addition			Doors, frames, hardware, sidelites	30.00 EA	2,500.00	75,000.00
Second Floor Addition			Acoustic ceiling, avg	8,000.00 GSF	2.75	22,000.00
Second Floor Addition			Prem. ceilings: main corridors / mtg. rms, prem add	1,600.00 GSF	1.75	2,800.00
Second Floor Addition			Premium wall finish: main corridors & conf. rm	8,000.00 GSF	0.75	6,000.00

Revision 2	_				_		
Report:		ty Study Const Cost Estimate	Prepared by: Downey & Scott, LLC		Concept	PM: ct	
Project:		burg MS Capacity Study	6799 Kennedy Road, Suite F		VMDO		oy: fs/sm
Location:		Public Schools	Warrenton, Virginia 20187		January 19,	y, 2016 Job no:	15129
Documents Dated:	January	8, 2016	Ph 540.347.5001 Fax 540.347.5021		See footer	7.001/	
			www.downeyscott.com	Revised:	February 1	1, 2016	
LOC REF	SYS#	UNIFORMAT SYSTEM	SPECIFICATION	QUANTITY	U/M	UNIT COST	EXTENSION
Second Floor Addition			CT floor, base, walls in restrooms	234.00	SF	18.50	4,329.00
Second Floor Addition			CT wainscot hallways/restrooms	784.00		12.50	9,800.00
Second Floor Addition			Vinyl Floor/vinyl base	7,766.00	SF	3.75	29,122.50
Second Floor Addition			Carpet	0.00	SY	43.00	0.00
Second Floor Addition			Wood flooring	0.00	SF	16.50	0.00
Second Floor Addition			Rubber Athletic Flooring	0.00	SF	12.50	0.00
Second Floor Addition			Painting	8,000.00		2.25	18,000.00
Second Floor Addition			Misc cut and patching	8,000.00		0.30	2,400.00
				-,			_,
Second Floor Addition Second Floor Addition	07.00	SPECIAL EQUIPMENT	Toilet partitions/accessories	8.00	ΕΔ	325.00	2,600.00
	07.00	OF EGIAL EQUIT MENT	Window treatment	8,000.00		0.45	3,600.00
Second Floor Addition				8,000.00			
Second Floor Addition			General casework			5.75	46,000.00
Second Floor Addition			General millwork	8,000.00		0.45	3,600.00
Second Floor Addition			Visual display MB & TB	8,000.00	GSF	1.00	8,000.00
Second Floor Addition			Smart boards			Refer to FF&E	
Second Floor Addition			Kitchen / faculty lounge appliances allowance	1.00		10,000.00	10,000.00
Second Floor Addition			Misc spec. dr signs/f.e./jan shelving/etc.	8,000.00	GSF	1.50	12,000.00
Second Floor Addition			Student desks and work stations			Refer to FF&E	
Second Floor Addition			Office furnishings, sofas and chairs			Refer to FF&E	
Second Floor Addition							
Second Floor Addition	08.00	CONVEYING				Not Included	
Second Floor Addition							
Second Floor Addition	09.00	MECHANICAL HVAC	HVAC Equipment	8,000.00	GSF	13.50	108,000.00
Second Floor Addition			Piping & Valves	8,000.00		4.97	39,780.00
			Ductwork - modify existing	8,000.00		5.85	46,800.00
Second Floor Addition Second Floor Addition			Air Outlets - replace existing	8,000.00		0.59	4,720.00
Second Floor Addition			Ductwork Accessories			0.72	5,760.00
				8,000.00			
Second Floor Addition			Insulation	8,000.00		1.95	15,600.00
Second Floor Addition			Temperature Controls	8,000.00		4.10	32,800.00
Second Floor Addition			Air & Water Balance	8,000.00		0.33	2,640.00
Second Floor Addition			Coordination Drawings	8,000.00		0.22	1,760.00
Second Floor Addition			Systems Operation & Testing	8,000.00		0.25	2,000.00
Second Floor Addition			Demolition	8,000.00	GSF	0.85	6,800.00
Second Floor Addition							
Second Floor Addition							
Second Floor Addition	9.20	PLUMBING	Demolition	8,000.00	GSF	0.45	3,600.00
Second Floor Addition			Water Closet	4.00	EA	1,150.00	4,600.00
Second Floor Addition			Lavatory	4.00	EA	675.00	2,700.00
Second Floor Addition			Domestic Water Piping	8,000.00	GSF	1.99	15,920.00
Second Floor Addition			DWV Piping	8,000.00		1.46	11,680.00
Second Floor Addition			Storm Piping	8,000.00		1.40	11,200.00
Second Floor Addition			Gas Piping	8,000.00		0.60	4,800.00
Second Floor Addition			Plumbing Insulation	8,000.00		0.56	4,480.00
			Coordination Drawings	0,000.00	001	Not Included	4,400.00
Second Floor Addition			Coordination Drawings			NOT ITICIQUED	
Second Floor Addition	0.20	EIBE SBBINKI EB	Christler modify existing	9 000 00	CCE	3.50	20 000 00
Second Floor Addition	9.30	FIRE SPRINKLER	Sprinkler - modfy existing	8,000.00	GSF		28,000.00
Second Floor Addition			Fire Pump			Not Included	
Second Floor Addition							
Second Floor Addition	10.00	ELECTRICAL	Switchboards			Existing to Remain	
Second Floor Addition			Panelboards - modify existing	8,000.00	GSF	0.98	7,840.00
Second Floor Addition			Bus Duct & Transformers			Existing to Remain	
Second Floor Addition			Generator, 150 KW/Automatic Transfer Switches			Existing to Remain	
Second Floor Addition			Light Fixtures - based on T5/LED fixtures	8,000.00	GSF	6.40	51,200.00
Second Floor Addition			Light Switches, includes DDC control connections	8,000.00	GSF	1.25	10,000.00
Second Floor Addition			Power Outlets	8,000.00		0.95	7,600,00
Second Floor Addition			Safety Cabinets & Disconnects	8,000.00		0.70	5,600.00
Second Floor Addition			Power Feeders	8,000.00		2.95	23,600.00
Second Floor Addition			Power Home Runs	8,000.00		2.20	17,600.00
			Power Branches	8,000.00		0.85	6.800.00
Second Floor Addition			Lighting Home Runs	8,000.00		1.15	9,200.00
Second Floor Addition							
Second Floor Addition			Lighting Branches	8,000.00		1.05	8,400.00
Second Floor Addition			Grounding/Lightning Protection	8,000.00		0.35	2,800.00
Second Floor Addition			Clock System	8,000.00		0.45	3,600.00
Second Floor Addition			Phone/Data System	8,000.00	GSF	3.90	31,200.00
Second Floor Addition			Security System	8,000.00		0.94	7,520.00
Second Floor Addition			P.A. & A.V. Systems	8,000.00	GSF	0.55	4,400.00
Second Floor Addition			TV System	8,000.00		0.29	2,320.00
Second Floor Addition			Fire Alarm	8,000.00	GSF	1.88	15,040.00
Second Floor Addition			Coordination Drawings	8,000.00	GSF	0.22	1,760.00
Second Floor Addition			Demolition	8,000.00		0.80	6,400.00
Second Floor Addition			<del></del> -	-,500.00	-		-,.00.00
Second Floor Addition	11.00	MARK-UPS	Subtotal				2,113,490.53
Second Floor Addition			General Conditions	10.00%			211,349.05
				10.00%			
Second Floor Addition			Subtotal	0 =001			2,324,839.58
Second Floor Addition			GC OH @ 4% plus Profit @ 4.5%	8.50%			197,611.36
Second Floor Addition			Subtotal				2,522,450.95
Second Floor Addition			Bonds & insurance	1.75%	005	0000	44,142.89
Second Floor Addition			Subtotal	8,000.00	GSF	\$320.82	2,566,593.84

COST ESTIMATE







# WILLIAMSBURG MIDDLE SCHOOL CAPACITY STUDY

**APPENDIX** 



### APPENDIX TABLE OF CONTENTS

PROGRESS MEETING #4 MEETING MINUTES AND CAPACITY STUDY 01.08.16

PROGRESS MEETING #3 MEETING MINUTES
12.17.15

PROGRESS MEETING #2 MEETING MINUTES

11.12.15

KICK-OFF CAPACITY MEETING#1 MEETING MINUTES

10.26.15

PAST PROPOSALS

10.02.12

MEETING MINUTES

PROJECT 1172A, Williamsburg Capacity Study

MEETING Progress Meeting #5

DATE 01/08/2016

REPORTING Philip Donovan VMDO Architects

ISSUED 01/14/2016

SENT TO All Attendees

PRESENT Name, Title

Benjamin Burgin APS-Design & Construction
Jen Xu APS-Design & Construction
Zach Larnard (via phone) APS-Design & Construction
Gordon Laurie APS-WMS Principle
Philip Donovan VMDO Architects

Representing

MINUTES

#### **OVERVIEW**

The goal of the meeting was to continue developing an understanding of specific needs for Williamsburg Middle School and to move forward in the progress of the proposed renovations. New iterations of each of the design option schemes based on previous feedback were presented in each of the following areas: Gym/Locker, Dirt Room, North Hall/Admin, Auditorium, and Cafeteria.

#### **DISCUSSION**

Philip began the meeting by introducing the Final Design Report booklet including the current options for reworking the north hall, gym, and dirt room. He also showed a representation of the smaller scale space reallocations of the auditorium and cafeteria space. The discussion focused on further identifying the logistical needs and priorities of the school in terms of classroom, locker, and office space. Additionally the existing conditions will be checked in all drawing updates to ensure accurate locations of all elements. Square foot calculation tables will be updated throughout to include all missing information. VMDO will also include additional seat count gained through study options.

#### 1) Executive Summary - POE

The group discussed the need for an executive summary on the Table of Contents(TOC) page that identifies the initial goals of the study, memorializes the iterative process to date, describes the cost estimating and scheduling assumptions, proffers future capacity ideas and summarizes conclusions of the current study. The TOC will also contain a copy of all meeting minutes. It was requested to also add an appendix at the end of the booklet that includes all past VMDO studies at Williamsburg as well as the past iterations of this study. This booklet will become a master copy of all studies done at Williamsburg to date and can be used by the

client moving forward as a reference.

#### 2) Existing Conditions

Currently the existing conditions drawings are using the original CAD base from APS record documents. However this base does not appear to be updated recently and so the REVIT existing conditions model will be used as the existing conditions plan. VMDO will identify additional areas that seats may be gained in outline form on the existing conditions plans.

#### 3) North hall/Offices

Two final options were presented for the north hall/admin area.

- -Option 01 will flip the conference/records space in the library to be located in the current teacher work space in order to maintain the existing classroom space. Option 1A will reflect all of the current updates and inclusion of new offices as shown in Option 01. However it will show the change to place the principal's office on the corridor side.
- -Option 02 will make the same change to the library workroom and existing classroom graphics as stated in notes for Option 01.

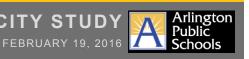
#### 4) Gym

VMDO presented one gym option. Option 01 is reflective of all prior comments including those by the PE staff. It was noted that the current vestibule/exterior exit layout seems to have changed from the existing conditions. VMDO to investigate and revise. Discussion also focused around need to have direct access to the locker room for observation and control of spaces by PE staff. VMDO to reinsert existing door between gym and locker room into the plans. Additionally APS indicated that there is an internal discussion occurring regarding use and quantity of PE lockers at the middle school level. APS has asked VMDO to investigate other school districts policy. Currently Option 01 is showing 744 lockers in each locker room which is an add of 60-100 lockers for each locker room. However this quantity seems excessive at the sacrifice of an additional classroom. Option 01 also is tied to the renovation of the dirt rooms to provide a new fitness/weight room in that location. VMDO will provide current Option 01 as Option 02 in final booklet. Option 01 will then cycle back to show fewer locker but include the extra classroom and fitness-weight room as shown in previous Option 02 dated 11/30/15.It was also discussed that locker capacity could be increased by adding an additional locker on top of the existing double-stack lockers. This could be done everywhere or at perimeter of room to ensure visibility remains over top of double stack lockers in the center of the room. VMDO to investigate quantities achieved following both alternatives.

#### 5) Dirt room

Two options were presented for the dirt room/crawlspace. Option 01 was an initial stage of renovation that shows the extended day storage/office and the new restrooms. It was noted that the existing CAD plan is not reflective of the actual north wall enclosure in that space. VMDO has updated the Revit model to match the existing conditions drawings. VMDO will add the section cut through the dirt/crawl space for reference. Option 02 shows the full build-out of the space including the PE staff offices and relocated fitness/weight classroom that is tied to Gym Option 01. This is not a preferable scenario for APS.

#### 6) Cafeteria



VMDO to update Option to include new door to Extended Day space . VMDO to also show option for covered outdoor eating on the south side of the cafeteria. Will calculate additional seating capacity. VMDO noted this could be a free-standing pre-manufactured roof structure that could be installed quickly and at a reasonable cost. Would also serve the pick-up/drop off process as a student waiting area. Safety issues include public access to the space during the school day, could be overcome with additional teacher supervision. VMDO to include in final cost estimate.

#### 7) Auditorium

Option 01 presented showing a new classroom in existing stage-left space. It was discussed that this space is not very conducive to a learning environment therefore it and the backstage area has the potential to become book storage/storage space. VMDO to note as such in Executive Summary.

#### 8) Misc

The group discussed several smaller, underutilized spaces where seats may be gained throughout the building. Included converting and adding several storage spaces in the north elective wing to existing classroom space. This storage would be relocated to the backstage area in the auditorium. Additionally several offices located in the space below the auditorium will be moved to the new admin area and these collectively can be converted into one small classroom. VMDO to update options and seat addition count.

#### 9) Classroom Capacity Evaluation

VMDO presented classroom capacity evaluation for all grade levels and special classroom spaces. In general capacity is at or slightly exceeded based on current educational specification requirements. No new capacity is gained by reducing classroom square footage.

#### 10) Cost Estimate for Second Story Addition

Downey & Scott continuing work on cost estimate for second story addition as well as all other schemes.

#### **SUMMARY AND MOVING FORWARD**

#### Further investigations:

Get cost estimates for interventions-fold into booklet to accompany each scheme Work towards preview of final package

Additional meetings: TBD, Final Booklet preview review early week of 1/17/2016

Notify the reporter of these minutes of any discrepancies or omissions, within 5 business days of receipt of this document. Otherwise, these minutes will be considered an accurate record of the issues discussed during the meeting.

## TABLE OF CONTENTS

**EXISTING CONDITIONS** 

NORTH HALL / ADMINISTRATION

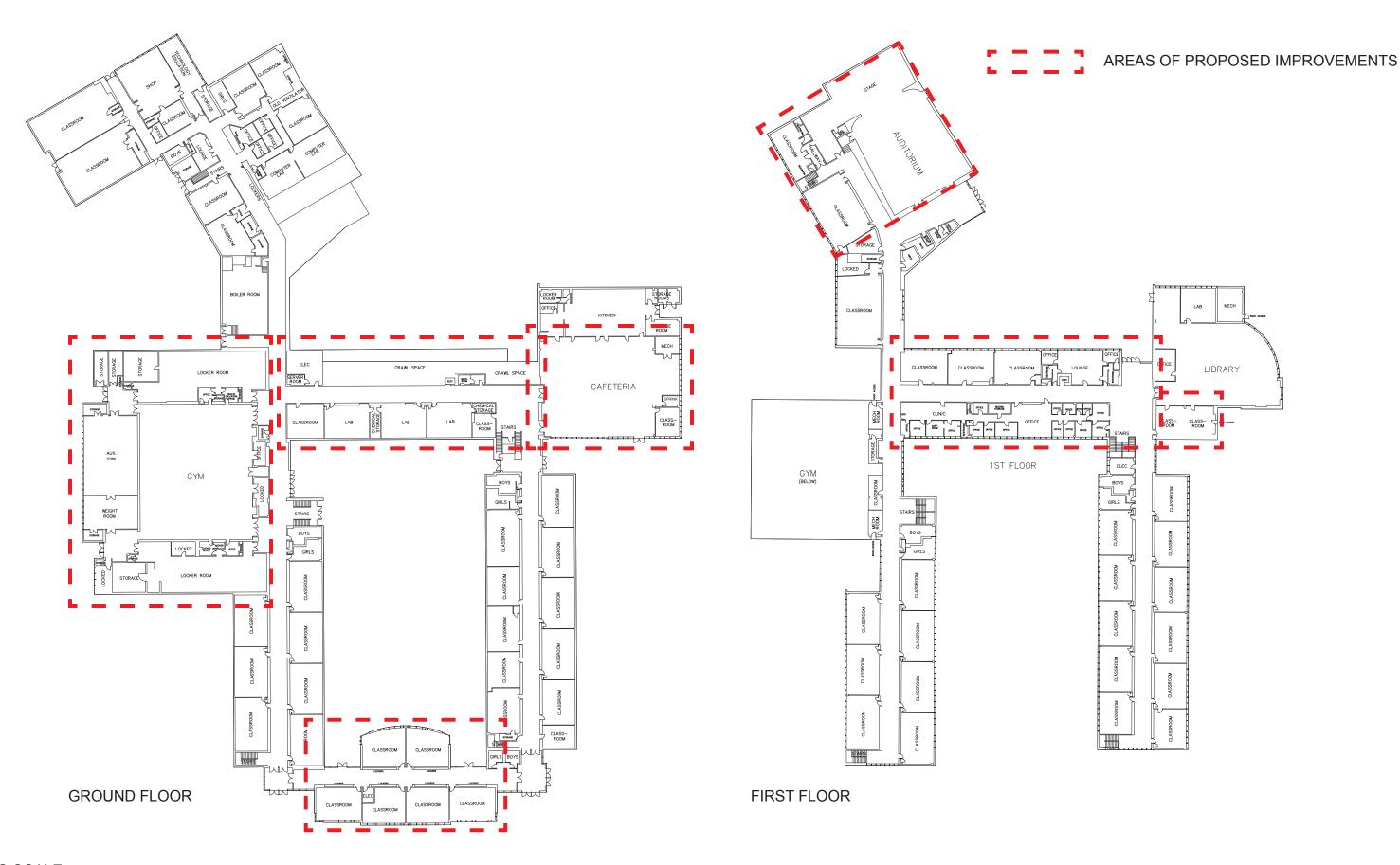
**GYMNASIUM** 

DIRT ROOM / CRAWLSPACE

**CAFETERIA** 

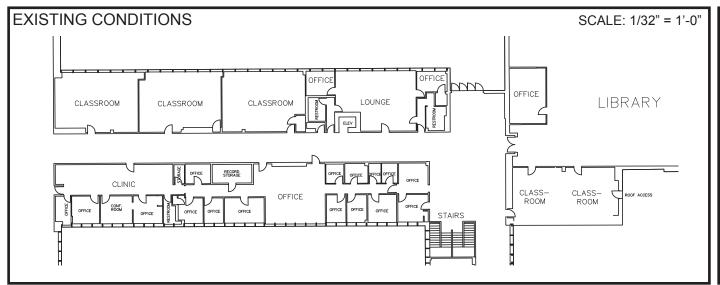
**AUDITORIUM** 

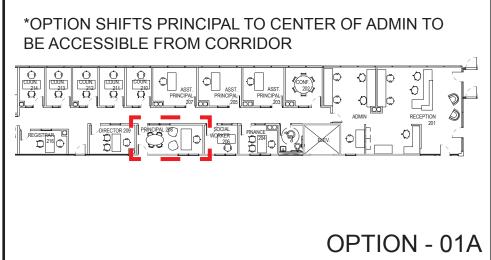
**EXISTING CLASSROOM CAPACITY ANALYSIS** 



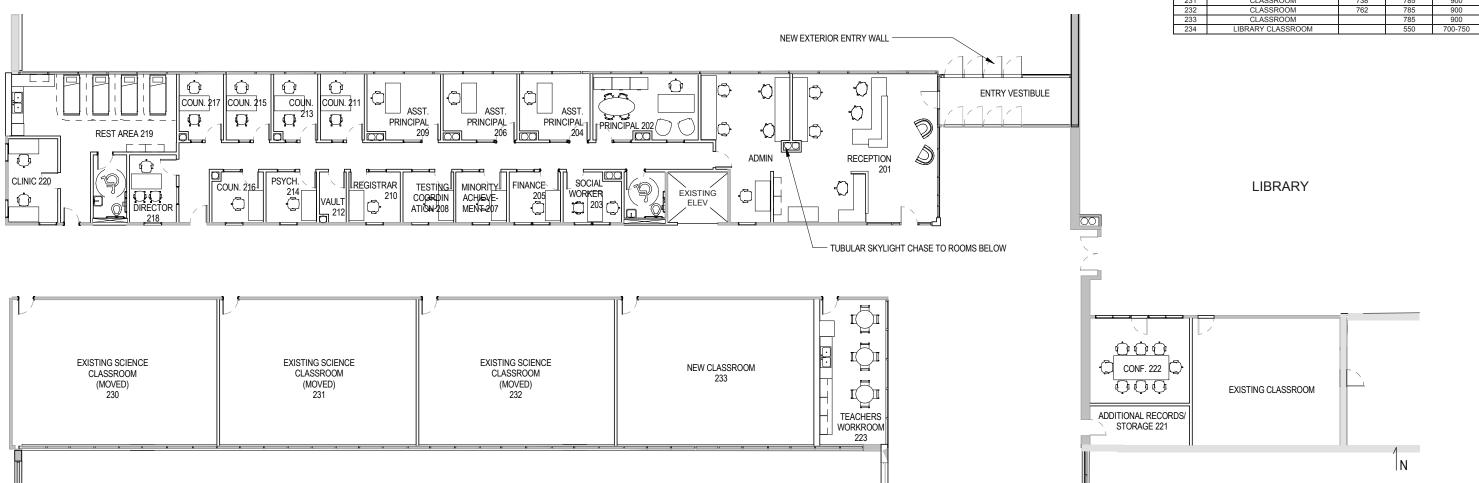
NOT TO SCALE

**EXISTING CONDITIONS** 



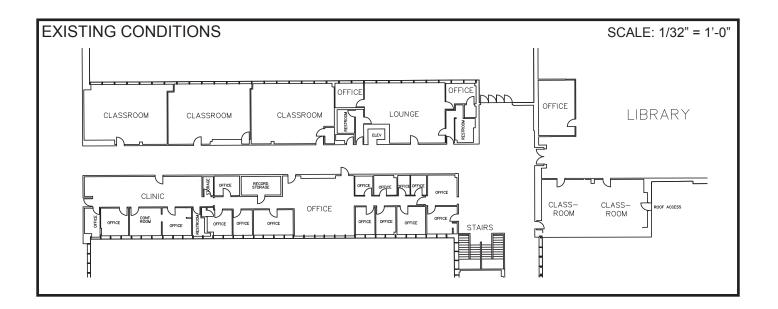


ENTRY VESTIBULE		JQUANET OUTAGE					
201         RECEPTION/ADMIN         620         895         600           201T         TOILET         143         46         65           202         PRINCIPAL         156         180         200           204         ASSISTANT PRINCIPAL         120         120           206         ASSISTANT PRINCIPAL         120         120           209         ASSISTANT PRINCIPAL         120         120           203         SOCIAL WORKER         75         120           205         FINANCE OFFICE         70         100           207         MINORITY ACHIEVEMENT         70         120           208         TESTING COORDINATOR         70         120           209         REGISTRAR         70         120           210         REGISTRAR         70         120           211         COUNSELOR OFFICE         78         100           212         RECORDSIVAULT         35         100           213         COUNSELOR OFFICE         78         100           215         COUNSELOR OFFICE         78         100           216         COUNSELOR OFFICE         78         100           218         DIR	ROOM#	ROOM	EXISTING	PROPOSED	ED SPEC		
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216         COUNSELOR OFFICE         70         100           214         PSYCHOLOGIST         70         120           219         CLINIC REST AREA         375         250 (+200)           219T         CLINIC TOILET         59         65           220         CLINIC OFFICE         1115         115           221         RECORDS/VAULT         122         200           222         CONFERENCE         240         200           223         TEACHER WORKROOM         696         264         1000           230         CLASSROOM         764         785         900           231         CLASSROOM         738         785         900           232         CLASSROOM         762         785         900	217	COUNSELOR OFFICE		78	100		
214         PSYCHOLOGIST         70         120           219         CLINIC REST AREA         375         250 (+200)           219T         CLINIC TOILET         59         65           220         CLINIC OFFICE         115           221         RECORDSIVAULT         122         200           222         CONFERENCE         240         200           223         TEACHER WORKROOM         696         264         1000           230         CLASSROOM         764         785         900           231         CLASSROOM         762         785         900           232         CLASSROOM         762         785         900	218	DIRECTOR		87	120		
219         CLINIC REST AREA         375         250 (+200)           219T         CLINIC TOILET         59         65           220         CLINIC OFFICE         115         115           221         RECORDS/VAULT         122         200           222         CONFERENCE         240         200           223         TEACHER WORKROOM         696         264         1000           230         CLASSROOM         764         785         900           231         CLASSROOM         738         785         900           232         CLASSROOM         762         785         900	216	COUNSELOR OFFICE		70	100		
219T         CLINIC TOILET         59         65           220         CLINIC OFFICE         115           221         RECORDS/VAULT         122         200           222         CONFERENCE         240         200           223         TEACHER WORKROOM         696         264         1000           230         CLASSROOM         764         785         900           231         CLASSROOM         738         785         900           232         CLASSROOM         762         785         900	214	PSYCHOLOGIST		70	120		
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222         CONFERENCE         240         200           223         TEACHER WORKROOM         696         264         1000           230         CLASSROOM         764         785         900           231         CLASSROOM         738         785         900           232         CLASSROOM         762         785         900	220	CLINIC OFFICE		115			
223         TEACHER WORKROOM         696         264         1000           230         CLASSROOM         764         785         900           231         CLASSROOM         738         785         900           232         CLASSROOM         762         785         900	221	RECORDS/VAULT		122	200		
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231         CLASSROOM         738         785         900           232         CLASSROOM         762         785         900	223	TEACHER WORKROOM	696	264	1000		
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	231	CLASSROOM	738	785	900		
233 CLASSROOM 785 900	232	CLASSROOM	762	785	900		
	233	CLASSROOM	1	785	900		

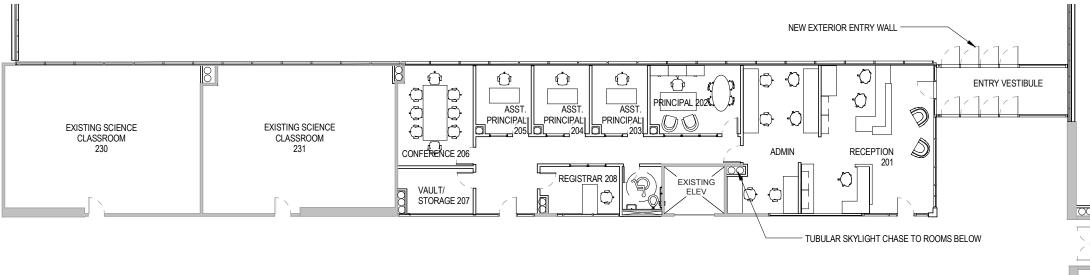


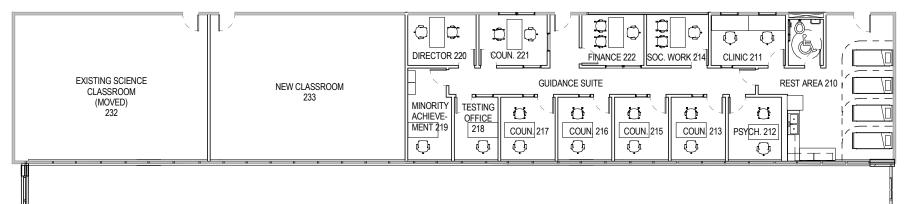
SCALE 1/16" = 1'-0"

OPTION - 01



ROOM#	ROOM	EXISTING	PROPOSED	ED SPEC
	ENTRY VESTIBULE		183	
201	RECEPTION/ADMIN	620	178	600
201T	TOILET	143	46	65
202	PRINCIPAL	156	170	200
203	ASSISTANT PRINCIPAL		100	120
204	ASSISTANT PRINCIPAL		100	120
205	ASSISTANT PRINCIPAL		100	120
206	CONFERENCE		200	200
207	RECORDS/VAULT		85	100 (+200)
208	REGISTRAR		100	
209	TEACHER WORKROOM	696	392	1000
210	CLINIC REST AREA		380	250 (+200)
210T	CLINIC TOILET		45	65
211	CLINIC OFFICE		105	
212	PSYCHOLOGIST		90	120
213	COUNSELOR OFFICE		90	100
215	COUNSELOR OFFICE		90	100
216	COUNSELOR OFFICE		90	100
217	COUNSELOR OFFICE		90	100
214	SOCIAL WORKER		86	120
222	FINANCE OFFICE		86	100
218	TESTING COORDINATOR		75	
219	MINORITY ACHIEVEMENT		100	120
220	GUIDANCE DIRECTOR		95	120
221	COUNSELOR OFFICE		95	100
230	CLASSROOM	764	764	900
231	CLASSROOM	738	738	900
232	CLASSROOM	762	764	900
233	CLASSROOM		764	900
234	LIBRARY CLASSROOM		575	700-750





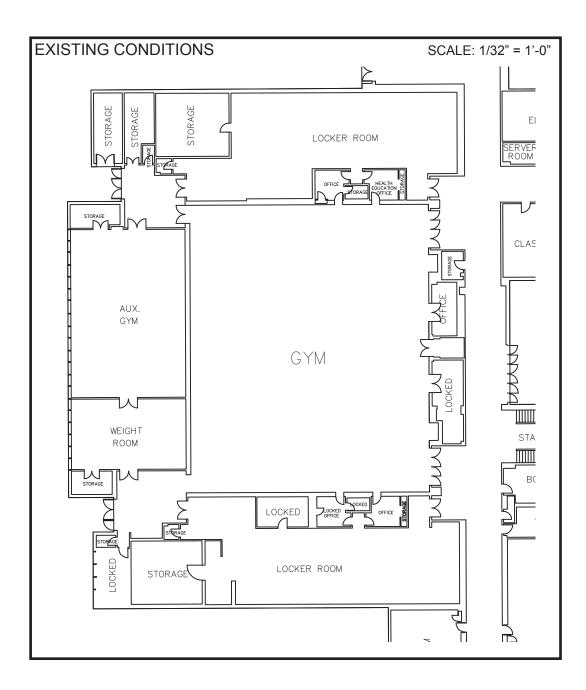
**EXISTING** CLASSROOM TEACHERS' WORKROOM 209

LIBRARY

OPTION - 02

NORTH HALL / ADMINISTRATION

SCALE 1/16" = 1'-0"

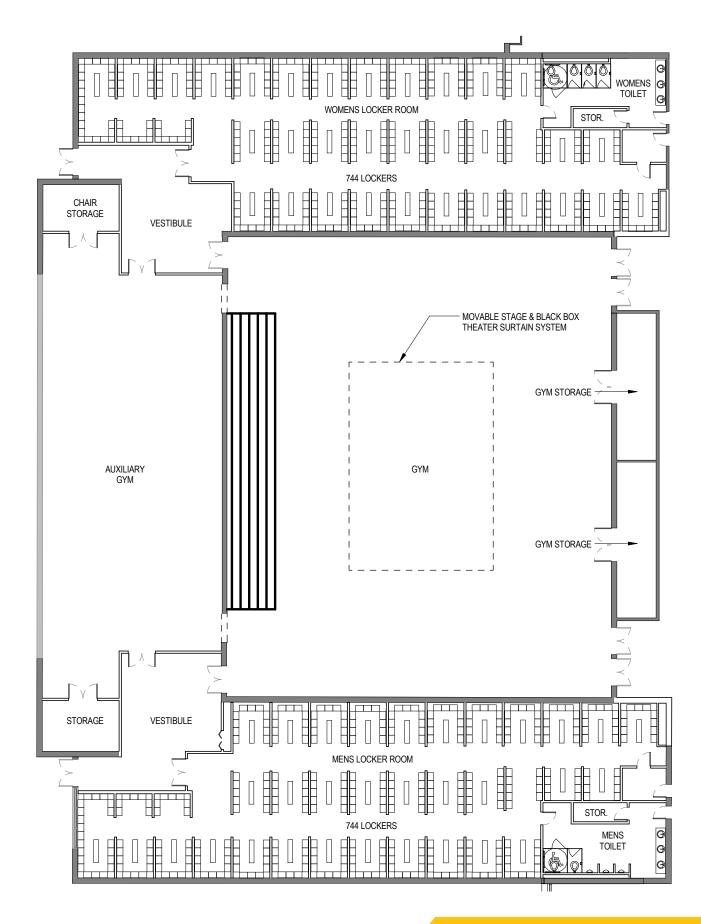


\* NOTE, WORK ASSUMED TO BE DONE IN CONSTRUCTION WITH DIRT ROOM RENOVATION TO PROVIDE REQUIRED/RELOCATED OFFICES AND WEIGHT ROOM/FITNESS ROOM.

#### SQUARE FOOTAGE

ROOM	EXISTING	PROPOSED	ED SPEC
MENS LOCKER ROOM	2572	3298	3000
MENS TOILET		345	
GYM	7543	8235	8000-10500
AUXILIARY GYM	2070	4080	2000
GYM STORAGE	556	360	500
WOMENS LOCKER ROOM	2522	3279	3000
WOMENS TOILET		315	

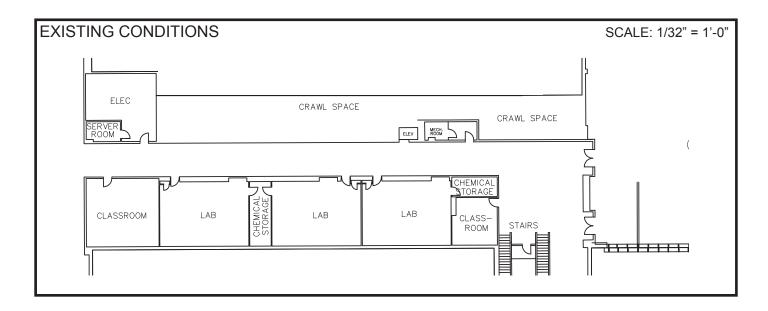
SCALE 1/16" = 1'-0"

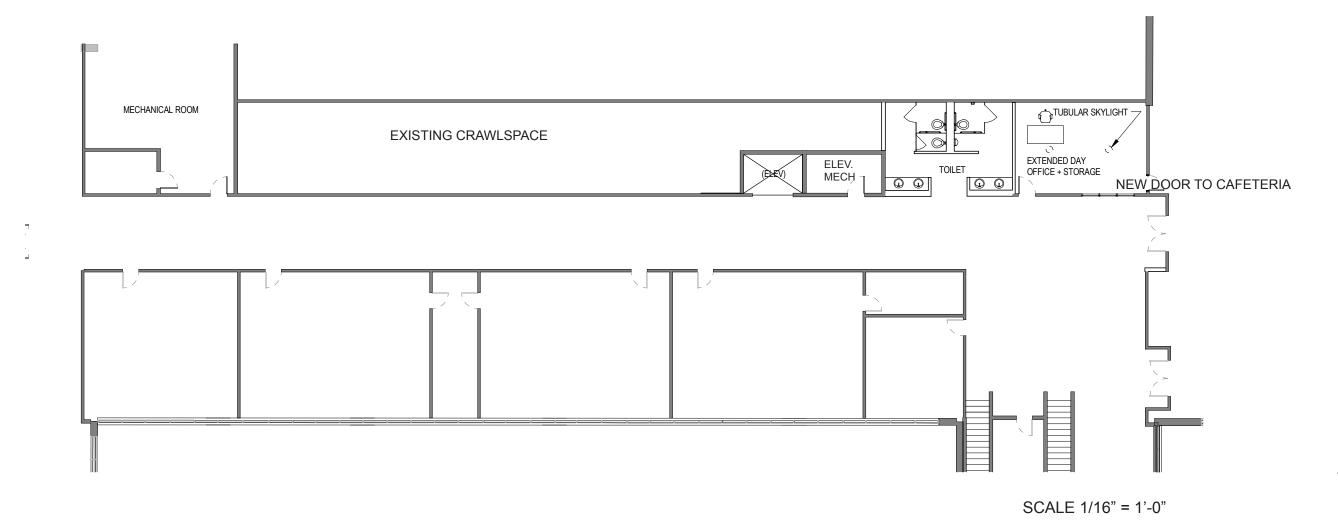


OPTION - 01

**GYMNASIUM** 

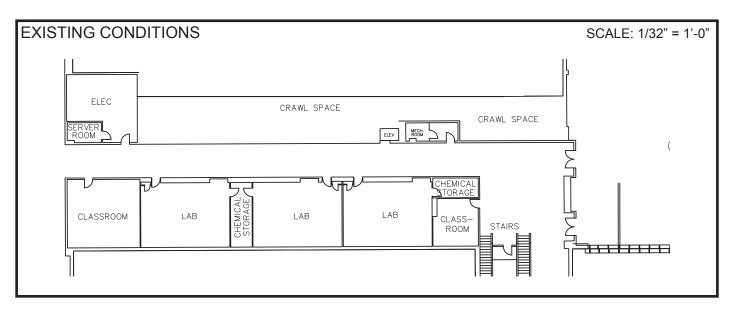


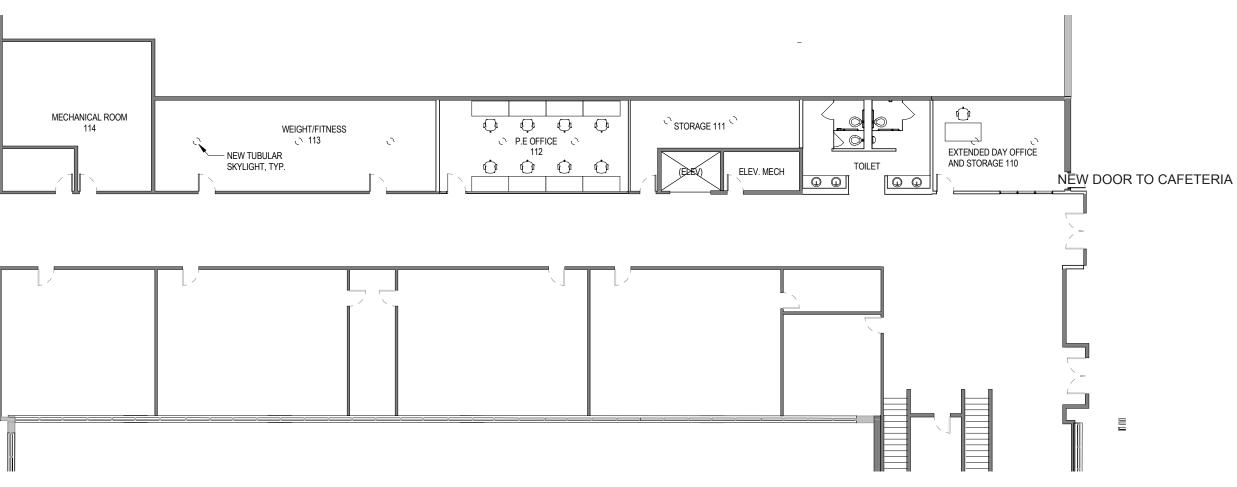




OPTION - 01

CRAWLSPACE / DIRT ROOM



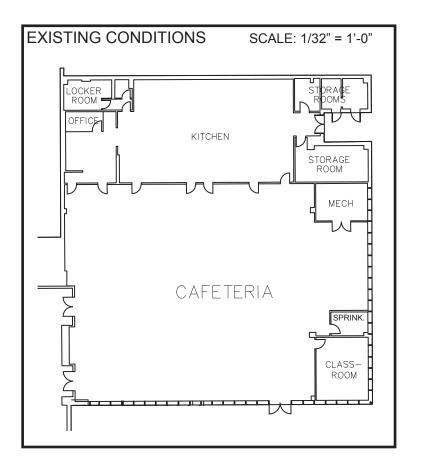


SCALE 1/16" = 1'-0"

OPTION - 02

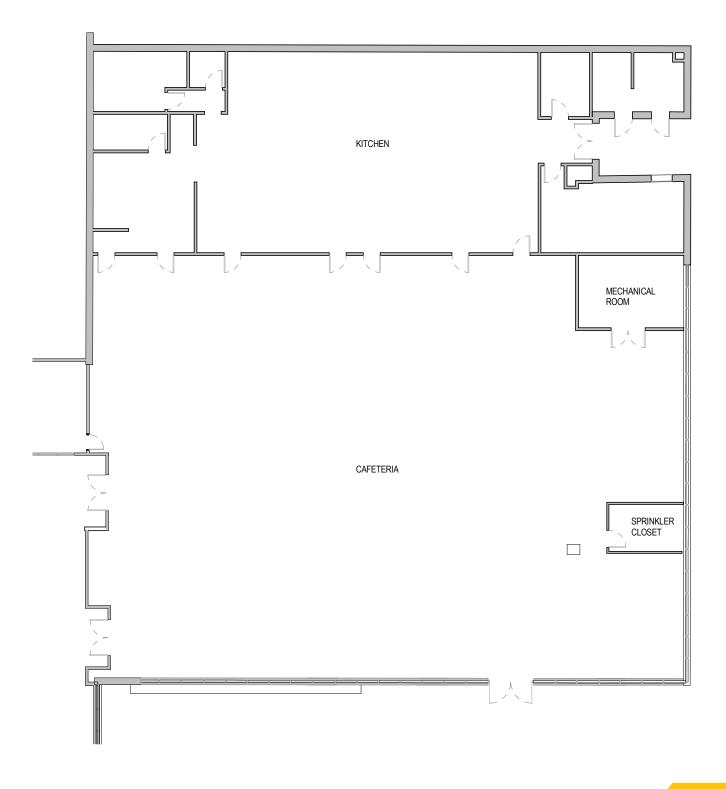
CRAWLSPACE / DIRT ROOM

N



#### SQUARE FOOTAGE

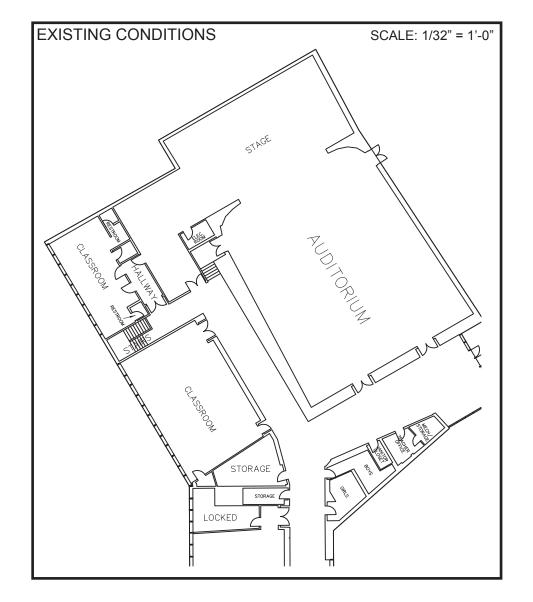
ROOM	EXISTING	PROPOSED	ED SPEC
KITCHEN	3030	3030	3700
CAFETERIA	6111	6435	5800
SPRINKLER CLOSET	95	95	
MECHANICAL ROOM	209	209	



1<sub>N</sub>

OPTION - 01

CAFETERIA



#### SQUARE FOOTAGE



SCALE 1/16" = 1'-0"

OPTION - 01

### **CURRENT CLASSROOM CAPACITY EVALUATION**

	Classroom	School Map	CAD Square		Number of	Square Foot	Ed Specification	Ed Specification SF
	number	Square Foot	Foot	Space Name	Students	per Student	Classroom	per Student
	6th Grade							
ă	106	747	728	Core Classroom	26	28	700 - 750	29 - 31 SF
윤	C101	772	732	Core Classroom	26	28	700 - 750	29 - 31 SF
Б	C102	793	754	Core Classroom	26	29	700 - 750	29 - 31 SF
Ground	C103	690	658	Core Classroom	26	25	700 - 750	29 - 31 SF
g	C104	788	740	Core Classroom	26	28	700 - 750	29 - 31 SF
	201	858	736	Core Classroom	26	28	700 - 750	29 - 31 SF
П	202	840	729	Core Classroom	26	28	700 - 750	29 - 31 SF
ı	203	840	727	Core Classroom	26	28	700 - 750	29 - 31 SF
	204	846 S	820	Core Classroom	26	32	700 - 750	29 - 31 SF
П	205	740	729	Core Classroom	26	28	700 - 750	29 - 31 SF
Floor	206	364	641	Core Classroom	26	25	700 - 750	29 - 31 SF
Ę	207	747	684	Core Classroom	26	26	700 - 750	29 - 31 SF
First	208	637	730	Core Classroom	26	28	700 - 750	29 - 31 SF
-	209	736	727	Core Classroom	26	28	700 - 750	29 - 31 SF
	210	629	729	Core Classroom	26	28	700 - 750	29 - 31 SF
	211	886	723	Core Classroom	26	28	700 - 750	29 - 31 SF
	232	918	748	Science Lab	26	29	1200	50 SF
	233	1180	767	Science Lab	26	30	1200	50 SF

6TH GRADE CLASSROOMS APPEAR TO BE SIZED CORRECTLY BASED ON CURRENT ED SPECIFICATIONS

	Classroom	School Map	CAD Square		Number of	Square Foot	Ed Specification	Ed Specification SF
П	number	Square Foot	Foot	Space Name	Students	per Student	Classroom	per Student
	7th Grade						ĺ	
	103	840	825	Core Classroom	26	32	700 - 750	29 - 31 SF
	104	846	825	Core Classroom	26	32	700 - 750	29 - 31 SF
	105	740	729	Core Classroom	26	28	700 - 750	29 - 31 SF
ے	1A6 (106)	637	579	Core Classroom	26	22	700 - 750	29 - 31 SF
ĕ	107	736	702	Science Lab	26	27	900	37 SF
l be	109	886	911	Core Classroom	26	35	700 - 750	29 - 31 SF
<b>Ground Floor</b>	112	806	739	Core Classroom	26	28	700 - 750	29 - 31 SF
ŋ	124	NA	674	Core Classroom	26	26	700 - 750	29 - 31 SF
	125	635	769	Core Classroom	26	30	700 - 750	29 - 31 SF
	C105	798	772	Core Classroom	26	30	700 - 750	29 - 31 SF
	C106	796	771	Core Classroom	26	30	700 - 750	29 - 31 SF
ъ								
Floor	217	819	823	Core Classroom	26	32	700 - 750	29 - 31 SF
First	218	871	873	Core Classroom	26	34	700 - 750	29 - 31 SF
L	220	841	825	Core Classroom	26	32	700 - 750	29 - 31 SF

7TH GRADE CLASSROOMS APPEAR TO BE SIZED CORRECTLY BASED ON CURRENT ED SPECIFICATIONS

2								
	Classroom	School Map	CAD Square		Number of	Square Foot	Ed Specification	Ed Specification SF
	number	Square Foot	Foot	Space Name	Students	per Student	Classroom	per Student
	8th Grade							
	111	789	736	Core Classroom	26	28	700 - 750	29 - 31 SF
	113	819	738	Core Classroom	26	28	700 - 750	29 - 31 SF
	115	810	822	Core Classroom	26	32	700 - 750	29 - 31 SF
ō	116	810	846	Core Classroom	26	33	700 - 750	29 - 31 SF
Floor	117	801	827	Core Classroom	26	32	700 - 750	29 - 31 SF
Pun	118	819	832	Core Classroom	26	32	700 - 750	29 - 31 SF
Ground	119	871	866	Core Classroom	26	33	700 - 750	29 - 31 SF
	120	805	828	Core Classroom	26	32	700 - 750	29 - 31 SF
	121	841	842	Core Classroom	26	32	700 - 750	29 - 31 SF
	134	712	713	Core Classroom	26	27	700 - 750	29 - 31 SF
٦	214	810	814	Core Classroom	26	31	700 - 750	29 - 31 SF
Floor	215	810	817	Core Classroom	26	31	700 - 750	29 - 31 SF
First	216	801	817	Core Classroom	26	31	700 - 750	29 - 31 SF
ľ	219	805	821	Special Education	26	32	650 - 830	

7TH GRADE CLASSROOMS APPEAR TO BE SIZED CORRECTLY BASED ON CURRENT ED SPECIFICATIONS

	Classroom	School Map	CAD Square		Number of	Square Foot	Ed Specification	Ed Specification SF
	number	Square Foot	Foot	Space Name	Students	per Student	Classroom	per Student
	EI/WL							
	101	858	843	Core Classroom			700 - 750 SF	29 - 31 SF
	102	840	808	Special Education			650 - 830	27 - 34 SF
	114	663	630	Special Education			650 - 830	81 - 34 SF
	127	NA	1808	Art Lab			1650	68 SF
Floor	128	1839	1911					
Ground Flo	129	1278	646	Tech Lab			1000 - 1200	41 -50 SF
	132	NA	651	Core Classroom			700 - 750	29 - 31 SF
	133	NA	677	Core Classroom			700 - 750	29 - 31 SF
	134	NA	713	Core Classroom			700 - 750	29 - 31 SF
	136	NA	779	Computer Lab			830	34 SF
	137	NA	636	Computer Lab			830	34 SF
	Res Lab (CTR)	625	594	Science Lab			900 - 1200	37 - 50 SF
۲	225	1639	1512	Band Room			1800 SF	36 SF
Floor	227	1560	1430	Orchestra			1200 SF	30 SF
First	220	841	825	Core Classroom			700 - 750	29 - 31 SF
证	228	766	930					

EL/WL CLASSROOMS WERE EVALUATED FOR SIZE COMPARISON ONLY AS STUDENT ENROLLMENT DATA WAS NOT AVAILABLE

**CLASSROOM SQUARE FOOT ANALYSIS** 

#### **VMDO** ARCHITECTS

MEETING MINUTES

PROJECT 1172A, Williamsburg Capacity Study

MEETING Progress Meeting #4

DATE 12/17/2015

REPORTING Lauren Scott, VMDO Architects

ISSUED 12/17/2015, REVISED & REISSUED 12/28/15

SENT TO All Attendees

PRESENT Name, Title Representing

Benjamin Burgin APS
Jen Xu APS
Zach Larnard APS
Elizabeth Rowden WMS

Philip Donovan VMDO Architects
Lauren Scott VMDO Architects

MINUTES

#### **OVERVIEW**

The goal of the meeting was to continue developing an understanding of specific needs for Williamsburg Middle School and to move forward in the progress of the proposed renovations. New iterations of each of the design option schemes based on previous feedback were presented in each of the following areas: Gym/Locker, Dirt Room, North Hall, Auditorium, and Cafeteria.

#### **DISCUSSION**

Philip began the meeting by introducing the current options for reworking the north hall, gym, and dirt room. He also showed a representation of the smaller scale space reallocations of the auditorium and cafeteria space. The discussion focused on further specifying the logistical needs and priorities of the school in terms of classroom, locker, and office space.

#### 1) North hall/Offices

Three different design options for the North Hall of classrooms and administration were presented, two of which (options #1 and #3) keep the classrooms south of the corridor and move all of the admin to the north, which would keep the classrooms lining the courtyard cohesively. The remaining scheme (option #2) has the admin and classrooms split east-west, with the admin at the entrance of the school. Both options have a new entry vestibule and increase the number of classrooms from

three to four. Elizabeth emphasized the importance of having four science classrooms here, as the sixth grade will have four teams instead of the current three, and need the extra classroom space. She also questioned whether science furniture/equipment was part of the overall renovation budget. In terms of office space, the roles of many of the different administrators were discussed at length to determine whether any of the office spaces could be combined or shared since there were at least 3 offices not fit in each of the options. Elizabeth clarified that not all of the administrators are full-time in office, but that the confidential nature of nearly all of their jobs (especially counselors) require a closed, single office. Though Philip asserted that he is a proponent for option #1, Jen pointed out that option #2 has the advantage of the clinic being across the hall from the admin, which would increase ease for parents picking up sick children. It was also decided that a conference room proves to be a frustrating thing to lack, and that particular space is not worth sacrificing for more office space. This led to an examination of the auxiliary spaces of the library, and a potential reworking of the current small classrooms into one larger classroom or a teacher workspace, allowing the currently proposed workspace across the hall to be utilized for offices or a small classroom for the reading specialist.

#### 2) Gym

Philip presented the idea of adding restrooms into the space that is currently the dirt room. The logic behind this move is that the dirt room already has plumbing (sprinkler risers) and the lack of windows would make the space ideal for conversion into restrooms. The extent of the slab needs to be investigated and the infrastructure in general needs to be explored. These restrooms would primarily serve the cafeteria and/or gym. It needs to be confirmed that the sewer lines from the restrooms above come through the space. This intervention is also categorized as Tier 1 and would work in conjunction with the flipping of the north hallway above. (The east end of the dirt room can be used as a storage space for extended day service, as previously discussed).

#### 3) Gym/locker rooms

The first main issue regarding the gym space was the separation of the main and auxiliary gyms. There were strong opinions voiced in favor of keeping the main gym and auxiliary gym separate, which perhaps can be solved by punching holes in (instead of fully removing) the adjoining wall, and having removable wall compartments that could divide the spaces when necessary. One priority is fitting the entire school in the gym for assemblies, while still allowing space to be divided for the five simultaneous gym classes. Location of the bleachers and gym storage were addressed by the storage closets incorporated in the auxiliary gym for the time being. The question of egress and codes came



up – that there may need to be a direct exit from the gym to the outside, rather than through the vestibule that attaches to the locker rooms. The other larger discussion was about the use and need for lockers. Clarification is needed on whether the lockers are shared, exactly how many are necessary, and whether or not that space could be further optimized to generate more space for classrooms. In thinking further ahead, it was questioned whether the lockers would be a waste once new schools opened was combated by Elizabeth, who believes the need will still exist even after the surplus of students has passed. Philip said he would like to email Maryann and the Phys Ed department to try and clarify those issues.

#### 4) Dirt room

The features that have been consistently incorporated into the dirt room have been bathrooms, which are understood to be a pressing need, but the new option (#3) incorporates the weight/fitness room and the P.E. office as well. The questions were mostly about the existing dirt room – how much structural intervention would be necessary, if the ceiling is high enough to host a weight room, and the question of removing the dirt.

#### 5) Cost Estimate for Second Story Addition

Per email from APS Project Manager Jennifer Xu on 12/09/2015, it was confirmed that the previous addition on the south end of the courtyard was structurally designed to allow for a second story addition. APS requested VMDO provide cost estimate and schedule for adding an addition to this area.

#### **SUMMARY AND MOVING FORWARD**

To finish the discussion, Philip said he would send out the sharefile link. The possibility of bringing back the tiers in accordance with cost estimates was presented, as well as long-term/short-term proposals. At least initially the cost estimate of a large scale addition is not necessary, but it was established that past studies and proposals should be included in the final package regardless of scale. Looking forward, a thumbnail or other representation of the existing building should be included on the plans, as well as a table of square footage to reference for the final package.

#### **Further investigations:**

Get cost estimates for interventions Investigate classroom capacity Collect square footage of rooms for better comparison Work towards preview of final package

Additional meetings: Friday January 8, tentatively 3:30pm

Notify the reporter of these minutes of any discrepancies or omissions, within 5 business days of receipt of this document. Otherwise, these minutes will be considered an accurate record of the issues discussed during the meeting.

MEETING MINUTES

PROJECT 1172A, Williamsburg Capacity Study

MEETING Progress Meeting #2

DATE 11/12/2015

REPORTING Lauren Scott, VMDO Architects

ISSUED 11/16/2015

SENT TO All Attendees

ATTACHED

PRESENT Name, Title Representing

Benjamin Burgin

Jen Xu

APS

Zach Larnard

APS

Kelly Krug

Gordon Laurie, Principal

Philip Donovan

VMDO Architects

Lauren Scott VMDO Architects
Dan Curry Quinn Evans Architects

MINUTES

#### **OVERVIEW**

The goal of the meeting was to examine preliminary strategies and development issues for Williamsburg Middle School. These were all discussed:

- 1) Rethinking cafeteria space allocation in conjunction with extended day storage.
- 2) Flipping admin and classrooms in north hall and changing entrance
- 3) Utilizing the dirt room for bathrooms or additional storage
- 4) Assessing gym/locker room space
- 5) Longer-term conversion of auditorium into classroom space

#### Framework for discussion:

- 1) Tier 1 simple, low-cost conversions or renovations (low-hanging fruit), mostly reallocation of existing spaces
- 2) Tier 2 Increase in cost/complexity, still feasible to complete during school breaks
- 3) Tier 3 Major renovation that would be preparing for long-term future, most complex and

costly

Philip began the meeting by describing the past process in assessing the growth strategies – that it was the intention to rethink scheduling, but that would have interfered undesirably with the APS middle school model. The next step was to assess the school spatially and find opportunities for growth and reallocation categorized into three tiers of development.

#### 1) Cafeteria

Due to scheduling structure, a fourth lunch period is a solution that should try to be avoided. Gordon and the school have already ordered new furniture for the cafeteria, increasing capacity by using tables with benches instead of stools. Another idea that the space already has the capacity for is a grab-and-go line to make the purchase of snacks and smaller items simpler. The proposed step from there is to take the extended day office/storage space and expand the cafeteria into that space. The extended day storage could be downsized significantly and/or moved to the adjacent end of the dirt room as a tier 1 intervention. It was noted by Gordon that the closet space next to the extended day office is a sprinkler closet, and it was agreed that this would be costly to change or move.

The second option, tier 2, would be to bump out the cafeteria to the east or south (preferably east). The receiving area is large and has an expanse of grass between, so the functionality of the loading area would not be sacrificed. A Tier 3 addition to the kitchen would be the next level of renovation to address growth in accordance with bumping out the cafeteria to the east. Jen brought up the idea of potentially using the current hallway space to expand the cafeteria into. Gordon liked the idea of a more open campus but has reservations about kids distracting each other if allowed to roam during their lunch period while other students are in class. Additionally, egress and code issues would need to be addressed before moving forward with that idea.

#### 2) North hall/Offices

Philip proposed adding a vestibule at the entrance, a glass storefront at the edge of the building that would allow the admin to have more control over the circulation in and out of the building if the admin suite and the classrooms are switched. Flipping and resizing the admin suite, clinic, guidance suite, and classrooms would allow potentially more classrooms to be created, and would keep the classrooms more cohesively in a zone, rather than scattered among offices, an idea that Gordon appreciated. Other variations discussed would be to flip the admin suite and some offices, but leave the classrooms and the guidance or clinic where they are. Jen brought up the concern about the changes in square footage available to the admin suite and lounge, to which Philip proposed a



simple, unisex faculty bathroom and perhaps a smaller, more highly-utilized teachers' lounge. It was noted that the science curriculum does not necessarily need gas capabilities, so it would not be too much trouble to move the science classrooms around. The current restrooms within the teachers' lounge would not be difficult to move/change because the dirt room directly underneath has plumbing, but must confirm that sewer lines from above come through the space. Any of these changes would be considered Tier 1. The idea to bump out the vestibule even further and create a new admin suite in the front of the school was later brought up as an option.

#### 3) Dirt room

Philip presented the idea of adding restrooms into the space that is currently the dirt room. The logic behind this move is that the dirt room already has plumbing (sprinkler risers) and the lack of windows would make the space ideal for conversion into restrooms. The extent of the slab needs to be investigated and the infrastructure in general needs to be explored. These restrooms would primarily serve the cafeteria and/or gym. It needs to be confirmed that the sewer lines from the restrooms above come through the space. This intervention is also categorized as Tier 1 and would work in conjunction with the flipping of the north hallway above. (The east end of the dirt room can be used as a storage space for extended day service, as previously discussed).

#### 4) Gym/locker rooms

Philip proposed a Tier 3 renovation of the gym that would knock down the walls between the gym, small gym, and weight room and combine their square footage into one enlarged gym. The intervention would be Tier 3 because the west wall of the gym is load-bearing. There is also a change in ceiling height between the large gym and auxiliary rooms that would need to be resolved. This idea allows for the gym to act as an auditorium as well, including a (mobile?) stage. Zach and Jen introduced the idea of keeping the load bearing wall, but combining the weight room and small gym and creating apertures in the load bearing wall that would open the spaces up without making large-scale structural changes. The events in which there are the most occupants in the gym are when students gather for P.E. in the beginning of the year (~250 students), foul weather days when everyone must be in the gym, and graduation/promotion (~350 students + parents).

In terms of current utilization, the locker room showers and restrooms are not heavily used, but the lockers are. They have a strange entrance and the hallway space right outside of the rooms is underutilized. The space of the locker rooms could be reorganized and opened up to create a dance/fitness room, or bike storage and changing space. The restrooms could easily be reworked

and stalls added to create extra space. All of the locker room changes are Tier 2 implementations. With correct sequencing, these renovations could occur over the span of a winter/summer break.

#### 5) Auditorium

The backstage areas as well as the auditorium itself are currently extremely underused. The school cannot fit into the auditorium for assemblies, and so the space is used for concerts or musicals a 2+ times a year. The drama classroom has its own small stage. The high upper windows in some spots might make the space a good opportunity for elective classrooms, and the previously proposed mobile stage in the gym could act as a traditional theater or black box with its mobility.

#### **SUMMARY AND MOVING FORWARD**

The overall dilemma seems to be whether or not a series of smaller scale interventions using interstitial spaces and vestibules would be more or less costly and effective as a large addition. The south hallway is constructed with the ability to add a second floor, and adding a row of classrooms along one edge of the courtyard were two larger proposals mentioned in accordance with this debate.

Additional comments made were that it would be desirable to get the window-less classrooms out from underneath the auditorium. Along with this, classrooms receiving natural light was noted as a priority for all new classrooms created. Additionally, Gordon brought up the idea of a transgender restroom and reported a great deal of negative feedback.

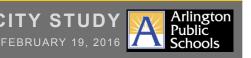
Several types of multi-purpose space were discussed – outdoor classroom space like at TJ, a lunch lounge/small classroom, and reconfiguring classrooms to gain a type of breakout space (assuming 25-28 students per class)

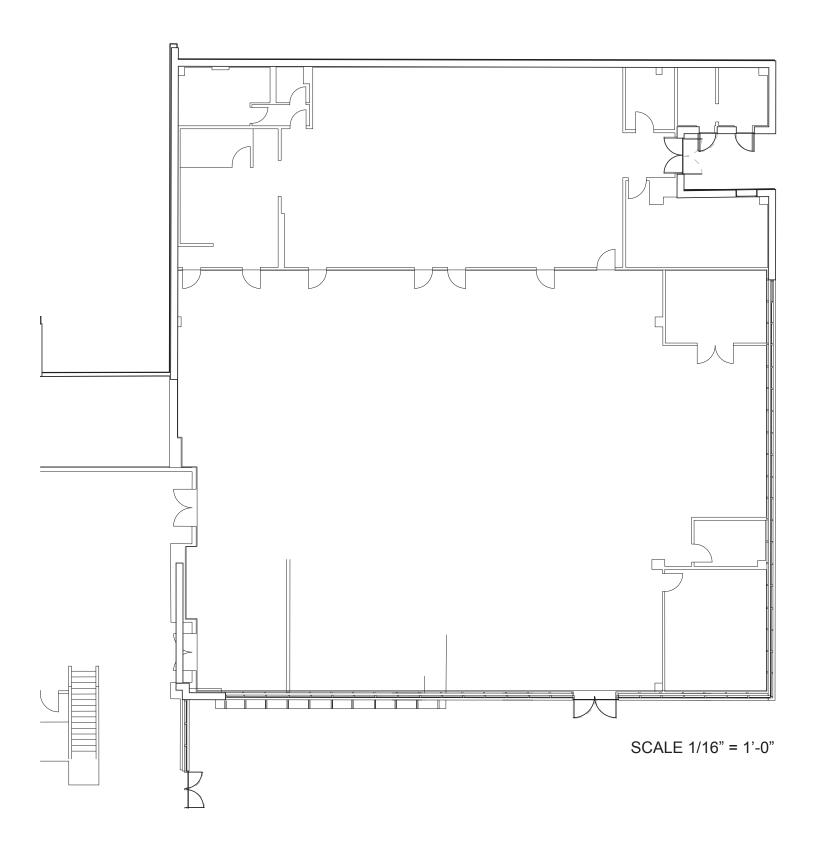
#### **Further investigations:**

Rework Tiers and get cost/time estimates for interventions
Assess pinch point created by relocatables at Door 10
Further research specs for area needs of admin/guidance
Investigate dirt room, elevator, and square footage

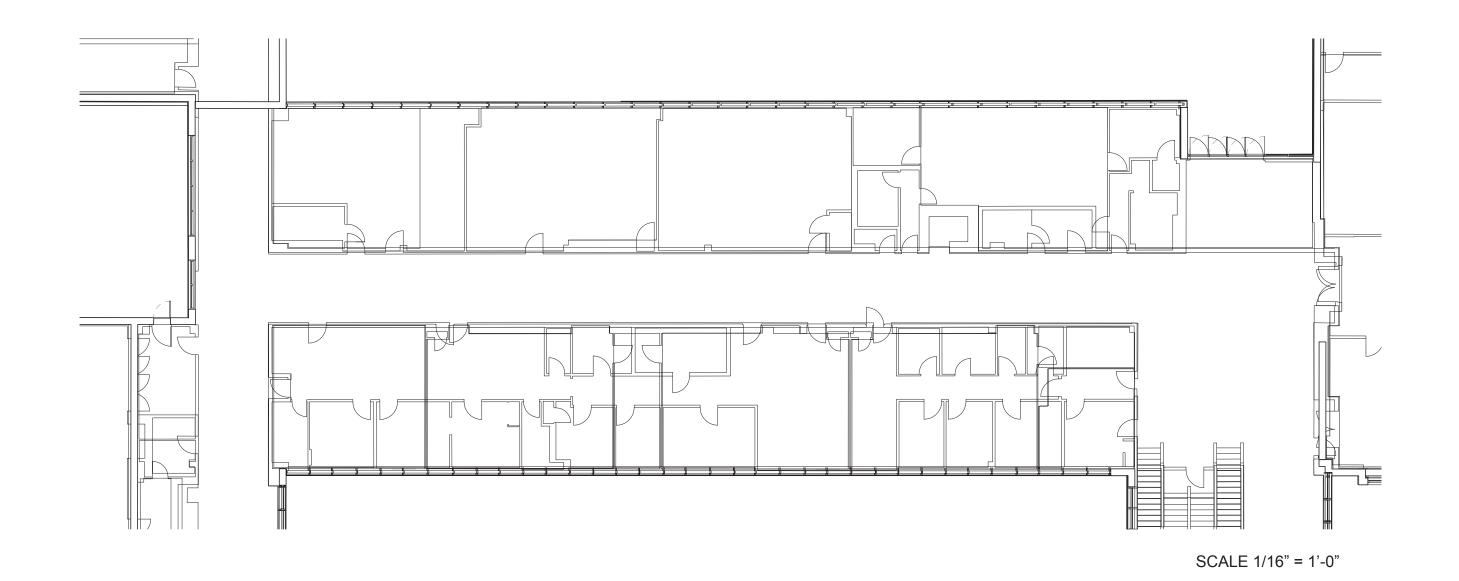
Additional meetings: First week in December, to be scheduled

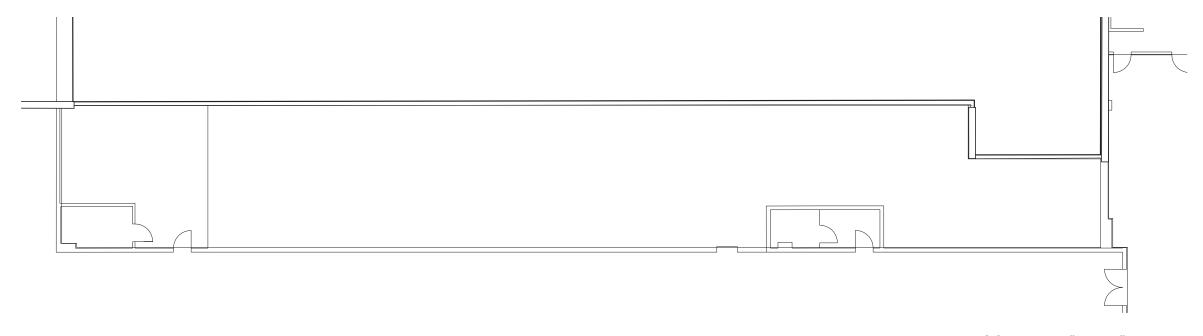
Notify the reporter of these minutes of any discrepancies or omissions, within 5 business days of receipt of this document. Otherwise, these minutes will be considered an accurate record of the issues discussed during the meeting.



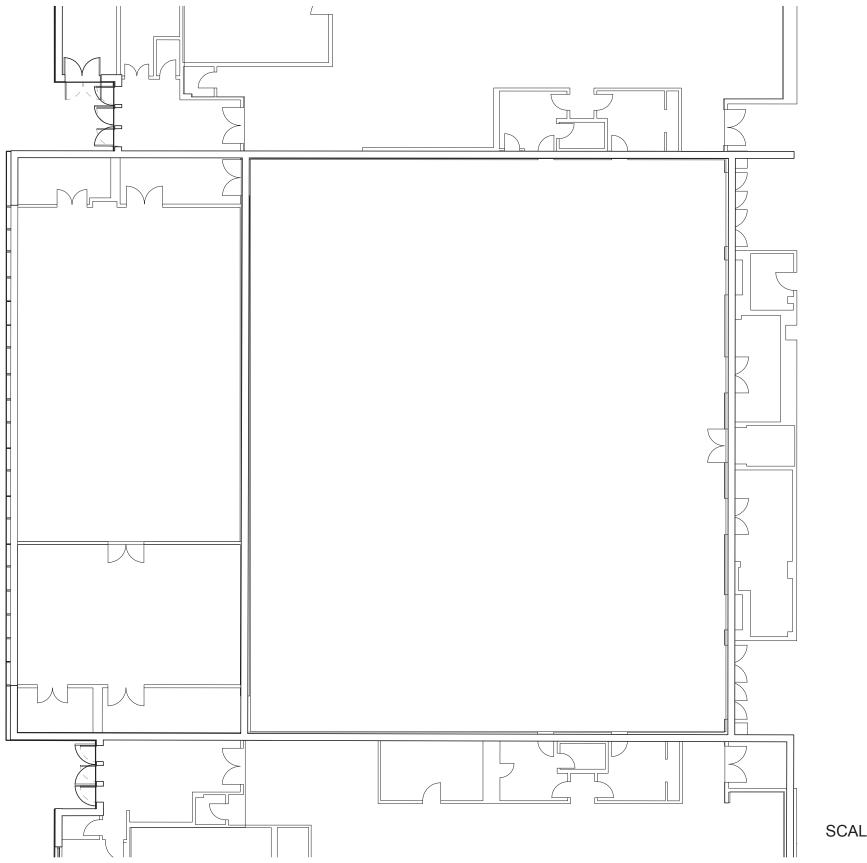


CAFETERIA / KITCHEN





SCALE 1/16" = 1'-0"



SCALE 1/16" = 1'-0"

#### **VMDO** ARCHITECTS

MEETING MINUTES

PROJECT 1172A, Williamsburg Middle School Capacity Study

MEETING Kick-off Meeting
DATE 10/26/2015

REPORTING Philip Donovan, VMDO Architects

ISSUED 11/16/2015

SENT TO All Attendees, Wyck Knox, file

ATTACHED

Name, Title	Representing
Gordon Laurie	APS
Jen Xu	APS
Benjamin Burgin	APS
Kathleen Meagher	APS
Susan Holland	APS
Julia Siple	Quinn Evans
Daniel Curry	Quinn Evans
	Gordon Laurie Jen Xu Benjamin Burgin Kathleen Meagher Susan Holland Julia Siple

MINUTES

Kick-off Meeting for Williamsburg Middle School Capacity Study Intent is to determine if capacity at Williamsburg can be increased through evaluation of current class period scheduling and may involve some renovation/adaptation to existing spaces.

- Discussion of teaching model for APS middle schools. Teaching is done in teams for each
  grade level. There can be multiple teams per grade, roughly 100 students per team.
  Currently allows for a free teacher team period(teachers meet to discuss shared
  students) and a planning period.
- 2. Difficult to add additional classes per grade as the team method means all students in that grade share the same planning and team periods. Utilizing these rooms for different grades is not effective as classrooms are set up for a specific grade level type of teaching.
- 3. Gordon noted the intrinsic nature of the middle school teaching model within the overall APS pedagogy, the team experience is felt by families as much as the students and teachers.

- 4. Discussed renovations to T.J. Middle School over the last year. These changes did not include revisions to scheduling. TJ was able to pickup up additional space by looking at underutilized auxiliary spaces.
- 5. Attempt to keep classes together within zones of the building to minimize travel distance. Parents have complained about proximity of classrooms and student travel.
- 6. Backpacks were reintroduced this year and allow students to forgo additional trips to locker for books during the school day
- 7. Time between classes is currently 3 min. Very difficult to use the bathroom with such short time.
- 8. Bathroom facilities inadequate.
- 9. HILT (High Intensity Language Training) takes place in general classrooms during class time.
- 10. Life Skills/Specialty classes are located in their own classrooms.
- 11. Room 130 is the only workroom for staff.
- 12. WMS wants to try and keep team size to around 100 students
- 13. Are considering moving all of 8<sup>th</sup> grade to relocatables when all have been installed(28 total). This could free up room for more teams within 6<sup>th</sup> & 7<sup>th</sup> grade.
- 14. Teachers prefer relocatables because they have a restroom.
- 15. All offices are used and some are inadequate for the services they serve.
- 16. Going to be difficult to change scheduling model, in-grained in APS culture.
- 17. Students only use locker rooms to change clothes, no showers are taken there.

#### **NEXT STEPS**

- 1. Tour school with Gordon to understand principles perspective on current space utilization.
- 2. VMDO to begin assessing both schedule and alternative space utilization for next meeting.

Next Meeting - 9/9/15 at 3:30 pm at WMS.

(Tab to add rows)

Philip M. Donovan, AIA VMDO Architects



FEBRUARY 19. 2016



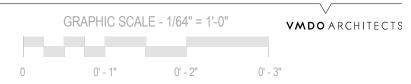
## WILLIAMSBURG MIDDLE SCHOOL CAPACITY STUDY

FIRST PROGRAM MEETING

October 26, 2015



1172A Williamsburg Middle School



UTILIZATION

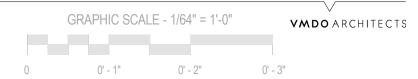


1172A Williamsburg Middle School





1172A Williamsburg Middle School



UTILIZATION

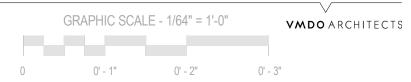


1172A Williamsburg Middle School





1172A Williamsburg Middle School



UTILIZATION

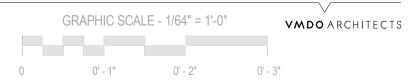


1172A Williamsburg Middle School





1172A Williamsburg Middle School



UTILIZATION



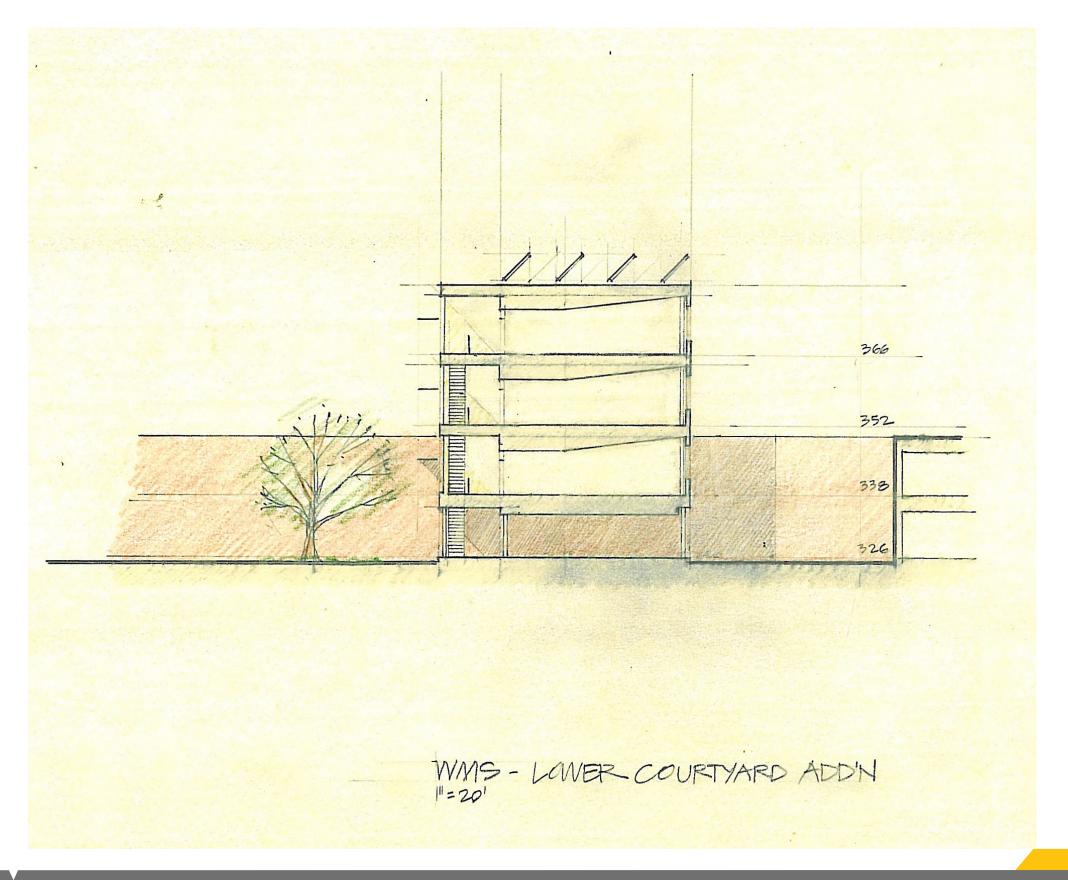
# WILLIAMSBURG MIDDLE SCHOOL PAST PROPOSALS

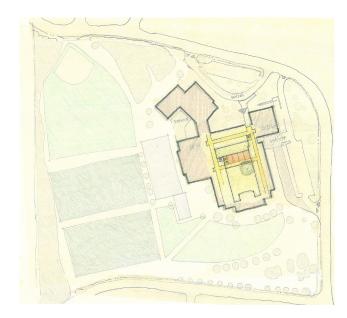
OCTOBER 2, 2012

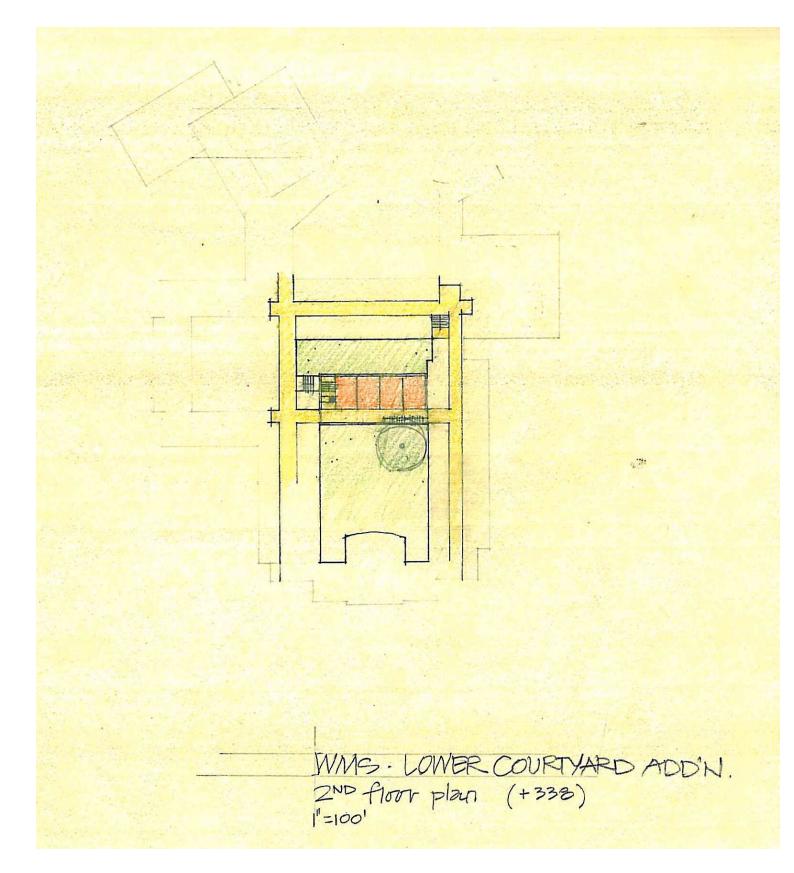
\* Note: Drawings not to scale.

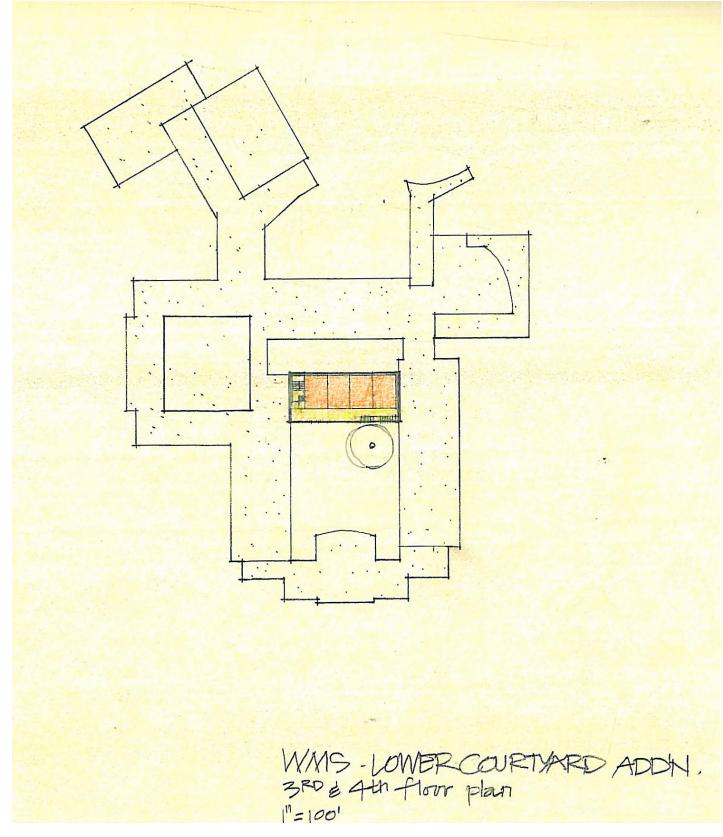


## COURTYARD ADDITION 1









## COURTYARD ADDITION 2

