

METHACTON SCHOOL DISTRICT



HIGH SCHOOL CAMPUS PROJECT Board Update Presentation

18 JUNE 2024

SCHRADERGROUP

BOARD UPDATE

APRIL

MAY

JUNE



BOARD UPDATE

APRIL

MAY

JUNE



PROGRAM	CAPACITY students	NET SQUARE FEET total	GROSSING factor	GROSS SQUARE FEET total
A. AREA SUMMARY				
1 Target Program Area		214,100 nsf	1.5 *	321,150 gsf
2 Existing Area in Plan				- gsf
Addition Area in Plan				- gsf
Total Area in Plan		- ref	TBD *	- gsf
Difference		214,100 nsf		321,150 gsf
		District Administrative Offices		11,625
		TOTAL		332,975 gsf

* Note that the PDE allowable grossing factor is 1.50 however some of those spaces are provided in Area 7

B. CAPACITY SUMMARY				
1 Goal Student Capacity	1,600	students		
2 Teaching Stations	137	1,675	students	
3 Utilization Factor	85%			
4 Effective Student Capacity	1,596	students		

C. AREA ANALYSIS				
1 Square Feet per student: Planned	201	s.f.	Does not include DAO Area	
2 Square Feet per student: Goal	200	s.f.		
2 Square Feet per student: actual	TBD			

D. AREA COMPARISON (Program)				
1 Learning Spaces	93,368	140,097	gsf	
2 Admin & Staff	7,318	10,977	gsf	
3 Community Spaces	21,170	31,755	gsf	
4 Media Center Spaces	8,610	12,915	gsf	
5 Fitness & Wellness	55,204	82,806	gsf	
6 Performing Arts	20,100	30,150	gsf	
7 Facility Support	8,300	12,450	gsf	
8 District Admin	7,950	11,625	gsf	
TOTAL GSF	222,950 nsf	332,975	gsf	

332,975 S.F.

PROGRAM	CAPACITY students	NET SQUARE FEET total	GROSSING factor	GROSS SQUARE FEET total
A. AREA SUMMARY				
1 Target Program Area		230,220 nsf	1.5 *	345,330 gsf
2 Existing Area in Plan				- gsf
Addition Area in Plan				- gsf
Total Area in Plan		- nsf	TBD *	- gsf
Difference		230,220 nsf		345,330 gsf
			DAO	11,625
		TOTAL		357,155 gsf

* Note that the PDE allowable grossing factor is 1.50 however some of those spaces are provided in Area 7

B. CAPACITY SUMMARY				
1 Goal Student Capacity	1,600	students		
2 Teaching Stations	147	2,198	students	
3 Utilization Factor	85%			
4 Effective Student Capacity	1,668	students		

C. AREA ANALYSIS				
1 Square Feet per student: Planned	185	s.f.	Does not include DAO Area	
2 Square Feet per student: Goal	200	s.f.		
2 Square Feet per student: actual	TBD			

D. AREA COMPARISON (Program)				
1 Learning Spaces	104,638	156,957	gsf	
2 Admin & Staff	7,318	10,977	gsf	
3 Community Spaces	21,170	31,755	gsf	
4 Media Center Spaces	8,750	13,125	gsf	
5 Fitness & Wellness	57,944	86,916	gsf	
6 Performing Arts	22,100	33,150	gsf	
7 Facility Support	8,300	12,450	gsf	
8 District Admin	7,950	11,625	gsf	
TOTAL GSF	238,170 nsf	357,155	gsf	

357,155 S.F.

METHACTON SCHOOL DISTRICT

District Administration Relocation

TOTAL PROGRAM SUMMARY - DRAFT

NSF Grossing
Factor GSF Total

DRAFT 2024.04.15

1.0	EDUCATIONAL SERVICES	3682	40 %	1367	5049
2.0	BUSINESS SERVICES	2828	40 %	989	3817
3.0	COMMON SPACES	1440	21 %	444	1884
	Subtotal	7950	34 %	2800	10750
	Building GSF @ 10%			1075	
	TOTAL MAIN BUILDING	7950		3875	11825

11,825 S.F.

BOARD UPDATE

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MOUNT SI HIGH SCHOOL

Snoqualmie, WA

DISCOVERY HIGH SCHOOL

Camas, WA

FARMINGTON HIGH SCHOOL

Farmington, UT

CANYON VIEW HIGH SCHOOL

Maricopa Cty, AZ

ALEXANDRIA HIGH SCHOOL

Alexandria, MN

ROCK RIDGE HIGH SCHOOL

MN

BEAVER DAM HIGH SCHOOL

Beaver Dam, WI

NEW TRIER TOWNSHIP HIGH SCHOOL

New Trier-Winnetka, IL

MORTON WEST HIGH SCHOOL

Berwyn, IL

OLATHE HIGH SCHOOL

OLATHE, KS

GODLEY HIGH SCHOOL

Godley, TX

STATE COLLEGE AREA HIGH SCHOOL

State College, PA

COLUMBIA CITY HIGH SCHOOL

Columbia City, IN

GEORGE MASON HIGH SCHOOL

Falls Church, VA

SAUGUS HIGH SCHOOL

Saugus, MA

SOMERVILLE HIGH SCHOOL

Somerville, MA

SPRINGFIELD HIGH SCHOOL

Springfield, PA

BOARD UPDATE

APRIL

MAY

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WORCESTER TOWNSHIP MEETING TOPICS

Discussion

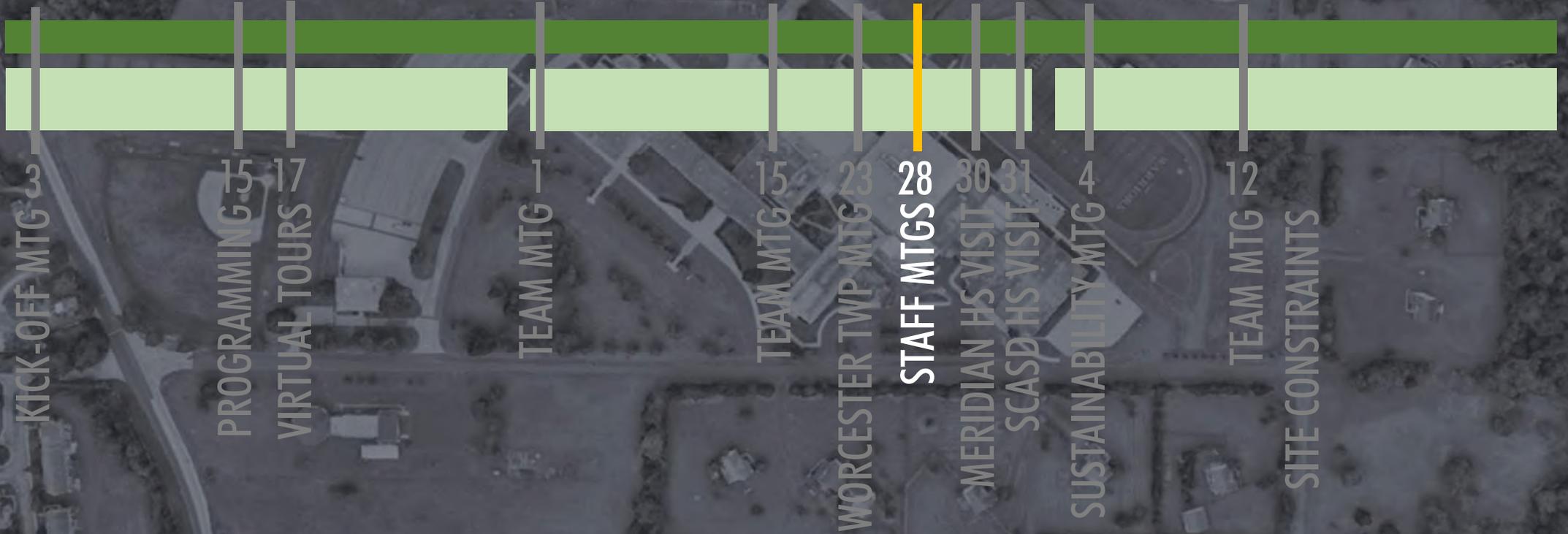
- Zoning Relief that may be needed:
 - Building height — 35 ft & 2.5 stories
 - Impervious surface — 40%
 - Parking lot(s) within building setbacks — 250 feet front yard
 - Building setback — 250 feet
 - Steep slope disturbance
- Public School is a use permitted by Conditional Use in AGR district
 - CU may or may not be needed since public school is existing use
- Worcester prefers a linear zoning approval for land development approval rather than concurrent approvals of zoning with LD.
- Parking is seen as challenging on site and off-site parking should be eliminated if possible. Prefer that the project should increase parking on the site. Traffic and speeding are also concerns.
- A bus access on Mill Road was discussed.
- The team is pursuing public sanitary sewer connection with the Grange Ave. Pump Station in Lower Providence as the most likely connection point.
- Stormwater design will be a key element of the site design as there is currently limited stormwater management that will need to be significantly upgraded to meet current regulations. The JV baseball field is being considered for a stormwater basin.
- A sketch plan will be submitted to the Township after School Board concept review and approval in Fall 2024.
- An engineered land development plan can be prepared for submission pending sketch review and zoning proceedings. Would like to target approximately February 2025 for this preliminary LD submission.

BOARD UPDATE

APRIL

MAY

JUNE



AUDITORIUMS

















GYMNASIUMS













NATATORIUMS









BOARD UPDATE

APRIL

MAY

JUNE



FACILITIES TOURED

STATE COLLEGE AREA HIGH SCHOOL

State College, PA
(Toured May 31)

UPPER MERION AREA HIGH SCHOOL

King of Prussia, PA
(Toured by MSD previously)

SPRINGFIELD HIGH SCHOOL

Springfield, PA
(On the tour list but never made it due to time limitations)

AVON GROVE HIGH SCHOOL

West Grove, PA
(Toured by MSD previously)

MERIDIAN HIGH SCHOOL

Falls Church, VA
(Toured May 30)

An aerial photograph of a school campus. In the center, there is a large, oval-shaped stadium with a dark roof. The stadium has "MIDFACTORY" and "STATE COLLEGE" written on its side. Surrounding the stadium are several large, multi-story school buildings with flat roofs. The campus is surrounded by a mix of trees and residential-style buildings. The overall scene is captured from a high angle, showing the layout of the school grounds.

FACILITY TOURS

- 01 UPPER MERION AREA HIGH SCHOOL
- 02 SPRINGFIELD HIGH SCHOOL
- 03 MERIDIAN HIGH SCHOOL
- 04 STATE COLLEGE AREA HIGH SCHOOL
- 05 AVON GROVE HIGH SCHOOL



FACILITY TOURS

01 UPPER MERION AREA HIGH SCHOOL

02 SPRINGFIELD HIGH SCHOOL

03 MERIDIAN HIGH SCHOOL

04 STATE COLLEGE AREA HIGH SCHOOL

05 AVON GROVE HIGH SCHOOL

UPPER MERION AREA HIGH SCHOOL

King of Prussia, PA

Architect: SCHRADERGROUP









UPPER MERION AREA HIGH SCHOOL

WALK OFFICE

COUNSELING CENTER















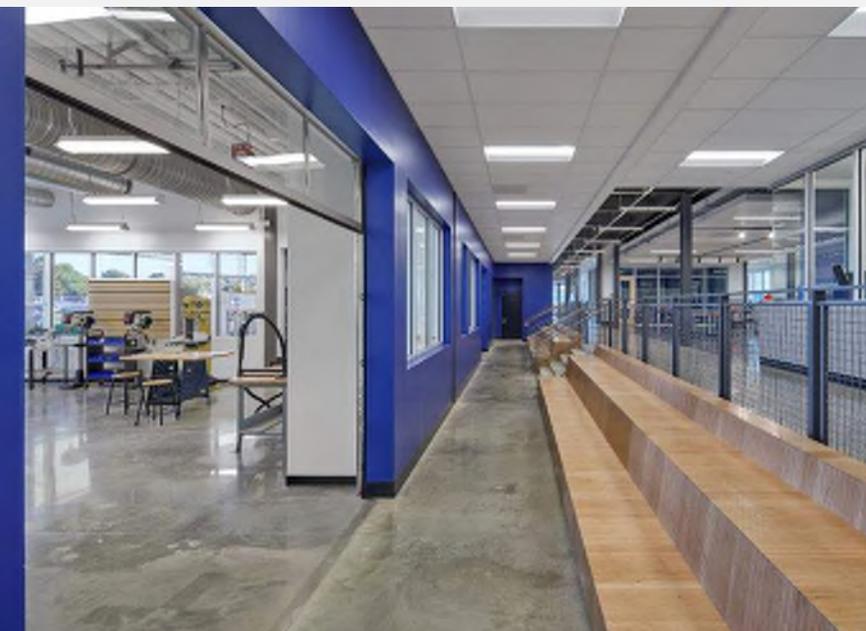


COUNSELING CENTER















FACILITY TOURS

01 UPPER MERION AREA HIGH SCHOOL

02 **SPRINGFIELD HIGH SCHOOL**

03 MERIDIAN HIGH SCHOOL

04 STATE COLLEGE AREA HIGH SCHOOL

05 AVON GROVE HIGH SCHOOL

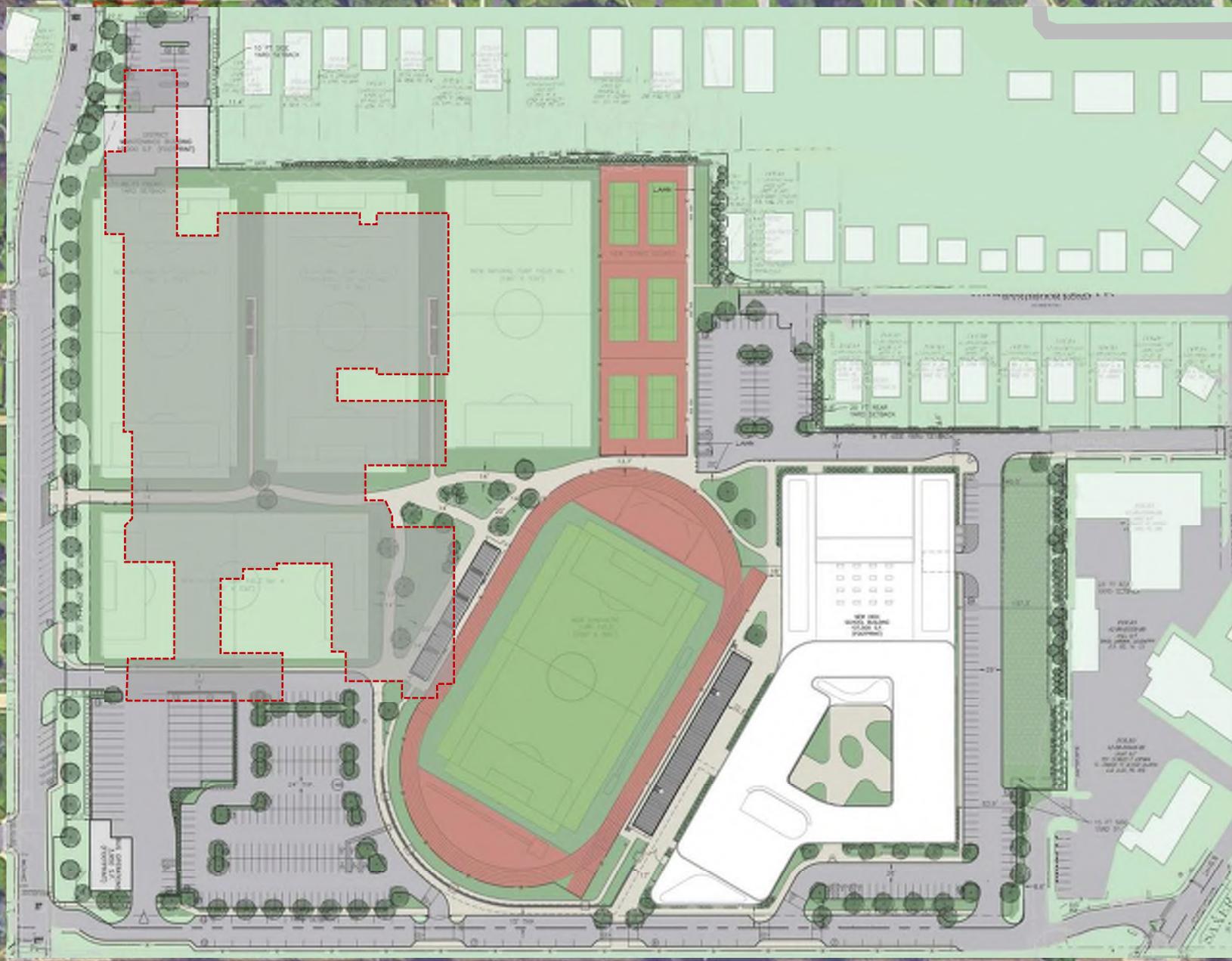
SPRINGFIELD HIGH SCHOOL

Springfield, Delaware County, PA

Architect: SCHRADERGROUP with Perkins & Will

before construction





construction



complete













SPRINGFIELD HIGH SCHOOL

















An aerial photograph of a school campus. The central focus is a large, multi-story school building complex. To the right of the main building is a large, oval-shaped stadium with a dark roof, labeled 'MEDIACENTER' and 'STATE COLLEGE'. The campus is surrounded by residential neighborhoods with houses and trees. The overall image has a dark, muted color palette with a light green text overlay.

FACILITY TOURS

01 UPPER MERION AREA HIGH SCHOOL

02 SPRINGFIELD HIGH SCHOOL

03 MERIDIAN HIGH SCHOOL

04 STATE COLLEGE AREA HIGH SCHOOL

05 AVON GROVE HIGH SCHOOL

MERIDIAN HIGH SCHOOL

Falls Church, VA

Architect: Stantec







REFLECTIVE

STARTING LOCAL

EXCEL

"Start where you are. Use what you have. Do what you can." *Arthur Ashe*

THEY NOW NEXT

- 1
- 2
- 3
- 4
- 5



Image courtesy of Stantec website (Joseph Romeo photography)



MUSTANG CAFE

OTHERS?



Menu



Online Orders
Pick Up Here!

Menu

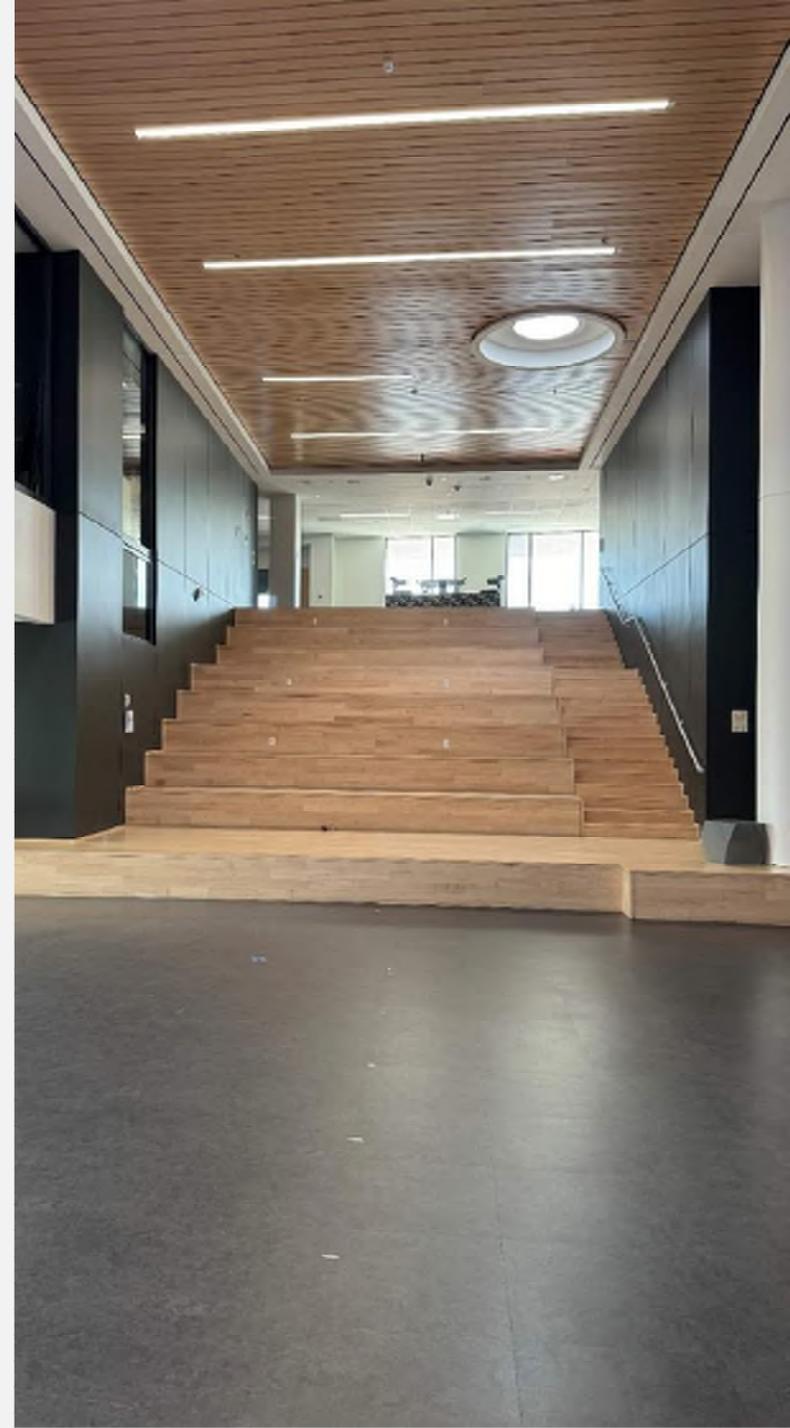






















PLEASE USE
CORRAL
TABLES AFTER
EXCHANGE

Hi

AOK

- Social
- Cultural
- Biological























MERIDIAN
HIGH SCHOOL



NO LEFT TURN

NO PARKING



Image courtesy of Stantec website (Joseph Romeo photography)

MERIDIAN HIGH SCHOOL

Positive Reactions

- Library location/layout
- Toilet room arrangements. Toilet rooms were great- multiple solutions so you can go to whichever place you are comfortable.
- Tiered furniture in classrooms
- Open breakout spaces in classroom pods
- Abundant daylight throughout
- Variety of LGI spaces
- Sensory rooms (“zen room” concept)
- Learning stair design was effective — more centralized so is a gathering point — multi-use space with balcony — all functions off of it.
- Central configuration of academic wings worked well.
- The idea of digital backdrops for stage is a great idea.
- Liked the library with glass breakout areas as well as moveable furniture — the size was good.
- Liked the TV station but would like it directly adjacent to the media center.
- Flexibility of rooms and layout is advantageous.
- Mobile furniture is a positive.
- The idea of non-homerooms is good.
- Discussed the International Baccalaureate program held in the building yesterday.

MERIDIAN HIGH SCHOOL

Concerns

- Mobile storage in classrooms (prefer built in casework, felt “cluttered”)
- Avoid splitting departments across floors
- Track in aux gym (keep in main gym)
- Lack of wall protection in corridors
- Meridian had too many windows from a safety standpoint.
- Too many interior windows — concerned about safety — no “hide” areas, yet, good supervision with central glass areas

An aerial photograph of a school campus. The central focus is a large, multi-story school building complex. To the right of the main building is a large, oval-shaped stadium with a dark roof. The stadium has "MEDIACENTERS" and "SUNBELT" visible on its side. The campus is surrounded by residential neighborhoods with houses and trees. The overall image has a dark, muted color palette with a light green text overlay.

FACILITY TOURS

01 UPPER MERION AREA HIGH SCHOOL

02 SPRINGFIELD HIGH SCHOOL

03 MERIDIAN HIGH SCHOOL

04 STATE COLLEGE AREA HIGH SCHOOL

05 AVON GROVE HIGH SCHOOL

STATE COLLEGE AREA HIGH SCHOOL

State College, PA

Architect: Crabtree, Rorhbaugh & Associates



Image courtesy of Crabtree, Rorhbaugh & Associates website



PHYSICAL

DUCK YEAH,
WE'RE GRADUATING!!







Image courtesy of Crabtree, Rohrbaugh & Associates website





Image courtesy of Crabtree, Rohrbaugh & Associates website



IF YOUR DREAMS DO NOT SCARE YOU, THEY ARE NOT BIG ENOUGH. - ELLEN JOHNSON SIRLEAF

ANY DEFEATS, BUT WE MUST NOT BE DEFEATED BY THEM. WE MAKE OUR BO

LARGE GROUP INSTRUCTION



Image courtesy of Crabtree, Rohrbaugh & Associates website



CULINARY ARTS







STATE



COLLEGE

STATE



COLLEGE









CALMING
COUNTER

DON'T
QUIT!

YOU'RE SAFE HERE

YOU ARE LOVED











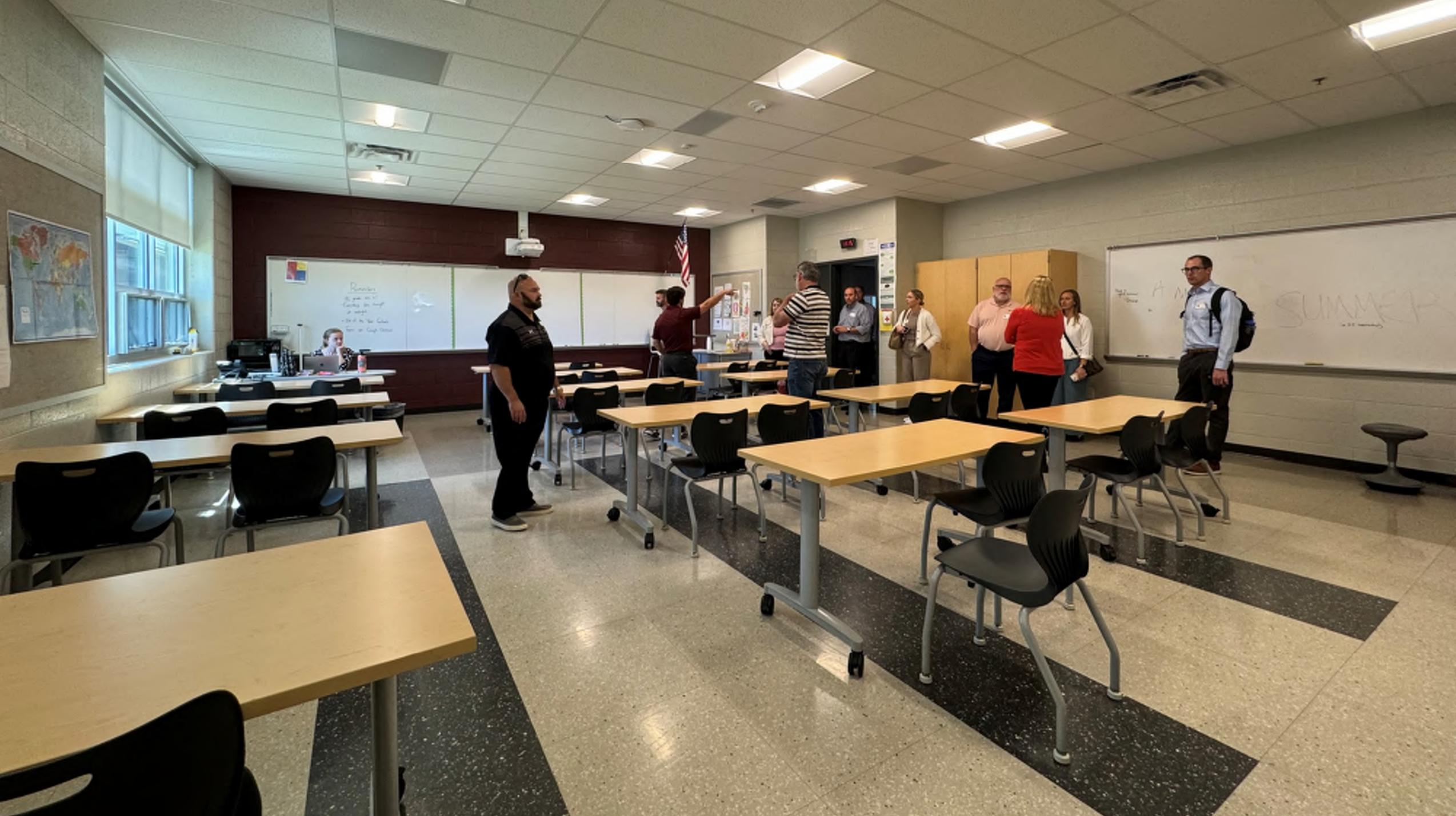








Image courtesy of Crabtree, Rohrbaugh & Associates website



Remember
to give the
teacher the
best
- Mr. & Mrs. [Name]
- Mrs. [Name]

AM
SUMMER





Image courtesy of Crabtree, Rohrbaugh & Associates website





STATE COLLEGE AREA HIGH SCHOOL





STATE COLLEGE AREA HIGH SCHOOL



STATE COLLEGE AREA HIGH SCHOOL

Positive Reactions

- Great educational programming and modified block program
- Loved 9th grade academy.
- Outside amphitheater proximate to cafeteria is good — had landscaping to soften it — had lunch areas — these are used. Utilized changes in elevation well —
- Two-sided entry — bus and car are positive.
- Black box functionality can be expanded if you have it for dance class and with pull out tablet seating to be both educational and
- Second level windows with copious daylight are good for safety.
- Shared classrooms and teacher work rooms were good. Teacher work area is better than Meridian
- The furniture configuration is depicted by the educational goals.
- Liked the ground faced block wall from a color and durability standpoint.
- Exposed ceiling areas
- Curriculum based fitness room (not just for sports teams)
- Commons/stair layout. Had some flexibility for presentations/performances without being true learning stairs
- (3) gym spaces (multipurpose gym as wrestling room)
- FCS near cafeteria
- Costume area/changing rooms/scene shop (liked general layout of PA area)
- Counselor suites (“safe spaces” are important)
- Centralized school store

STATE COLLEGE AREA HIGH SCHOOL

Concerns

- Mobile storage in classrooms (prefer built in casework, felt “cluttered”)
- Challenging supervision with big solid central block — hard to monitor and supervise.
- LGIs felt dark/secluded
- Auditorium felt steep at second floor

OTHER

General Comments

- Like enclosed courtyards
- Discussed block system vs non block system.
- Still important to have departments near each other.
- Some would like to look further into the 9th grade center concept (Freshman Academy)
- Flexibility in CR layout will allow the district to adapt an educational concept to that facility later.
- Discussed having a serious discussion about the performing arts and arts and what is really required.



FACILITY TOURS

01 UPPER MERION AREA HIGH SCHOOL

02 SPRINGFIELD HIGH SCHOOL

03 MERIDIAN HIGH SCHOOL

04 STATE COLLEGE AREA HIGH SCHOOL

05 AVON GROVE HIGH SCHOOL

AVON GROVE HIGH SCHOOL

Avon Grove, PA

Architect: KCBA



Image courtesy of KCBA website





Image courtesy of KCBA website



Image courtesy of KCBA website



Image courtesy of KCBA website



Image courtesy of KCBA website



Image courtesy of KCBA website



Image courtesy of KCBA website



Image courtesy of KCBA website

BOARD UPDATE

APRIL

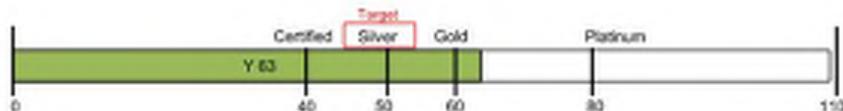
MAY

JUNE





LEED SCORECARD SUMMARY
CCP Career + Technology Center
 BD+C New Construction v4
 5/15/2024



63	47	TOTAL	110 Pts								
Y	Y?	?	N		D/C	EP	RP				
1 INTEGRATED PROCESS				1 Pts							
1				1							
14 LOCATION AND TRANSPORTATION				16 Pts							
1				16							
1				1							
2				2							
5				5							
4				1							
5				1							
1				1							
1				1							
9 SUSTAINABLE SITES				10 Pts							
1				1							
2				2							
1				1							
3				3							
2				2							
1				1							
6 WATER EFFICIENCY				11 Pts							
1				1							
1				1							
1				1							
2				2							
3				3							
2				2							
1				1							
12 ENERGY AND ATMOSPHERE				33 Pts							
1				1							
1				1							
1				1							
1				1							
6				6							
12				12							
1				1							
2				2							
3				3							
1				1							
2				2							
7 MATERIALS AND RESOURCES				13 Pts							
1				1							
1				1							
2				2							
1				1							
2				2							
2				2							
6 INDOOR ENVIRONMENTAL QUALITY				16 Pts							
1				1							
1				1							
2				2							
3				3							
1				1							
1				1							
1				1							
3				3							
1				1							
1				1							
6 INNOVATION IN DESIGN				6 Pts							
1				1							
1				1							
1				1							
1				1							
1				1							
1				1							
3 REGIONAL PRIORITY				4 Pts							
1				1							
1				1							
1				1							

COMMUNITY COLLEGE OF PHILADELPHIA Philadelphia, PA Career & Advanced Technology Center (CATC)



- Green roof for stormwater solutions
- Minimized parking related to zoning
- Highly energy efficient facility
- High recycled content finishes
- Urban environment

COMMUNITY COLLEGE OF PHILADELPHIA

Philadelphia, PA

Career & Advanced Technology Center (CATC)

- CCP reduced its water consumption by over 37% when compared to a 'typical' building.
- The project's annual water consumption uses ~135,000 gallons less than the average building, of its size and occupancy, per year.
- The project acts as a **great neighbor to both the nearby humans and animals alike** - meeting the requirements of Light Pollution Reduction by limiting the spread of lighting over the property boundary and up into the sky.
- The project has a **total energy cost savings of 30.8%** compared to the ASHRAE 90.1-2010 baseline



COMMUNITY COLLEGE OF PHILADELPHIA

Philadelphia, PA

Career & Advanced Technology Center (CATC)

- The total predicted annual energy consumption for the project is 1,020,997 kWh/year of electricity and 3,211 therms/year of natural gas.
- The team did an exemplary job with material selections and purchasing - installing many products that have both Environmental Product Declarations as well as Material Ingredient Reporting.
- High Priority Site
- Reduced Parking Footprint
- LED light fixture selection
- Water Metering
- Building Product Disclosure and Optimization
- Indoor Air Quality Strategies
- Selecting low-emitting materials
- Rainwater Management



BOARD UPDATE

APRIL

MAY

JUNE





NORTH





ANVIL DRIVE

TRANSPORTATION CENTER

TURF MULTI-PURPOSE FIELD

SEWER TREATMENT FACILITY

KRIEBEL MILL ROAD

POTENTIAL ACCESS

GERMANTOWN PIKE

WARRIORS FIELD

WARRIORS STADIUM

MILL ROAD

EXISTING DAO

EXISTING HIGH SCHOOL

NORTH

CURRENT ACCESS

KRIEBEL MILL ROAD

CURRENT ACCESS

CURRENT ACCESS

CURRENT ACCESS



TRANSPORTATION CENTER

OFF LIMITS

OFF LIMITS

SEWER TREATMENT FACILITY

OFF LIMITS

OFF LIMITS

OFF LIMITS

EXISTING PAO

CURRENT ACCESS

KRIEBEL MILL ROAD

CURRENT ACCESS

CURRENT ACCESS

CURRENT ACCESS

POTENTIAL ACCESS

MILL ROAD

KRIEBEL MILL ROAD

ANVIL DRIVE

GERMANTOWN PIKE

NORTH



ANVIL DRIVE

TRANSPORTATION CENTER

OFF LIMITS

OFF LIMITS
MULTI-PURPOSE

DEVELOPMENT AREA #1

SEWER TREATMENT FACILITY

POTENTIAL ACCESS

KRIEBEL MILL ROAD

GERMANTOWN PIKE

OFF LIMITS
WOLFERS FIELD

OFF LIMITS
EXISTING SCHOOL

OFF LIMITS
MULTI-PURPOSE STADIUM

MILL ROAD

NORTH

EXISTING PAO

CURRENT ACCESS

KRIEBEL MILL ROAD

CURRENT ACCESS

CURRENT ACCESS

CURRENT ACCESS



ANVIL DRIVE

TRANSPORTATION CENTER

OFF LIMITS

OFF LIMITS

MULTI-PURPOSE

SEWER TREATMENT FACILITY

POTENTIAL ACCESS

KRIEBEL MILL ROAD

GERMANTOWN PIKE

OFF LIMITS

WOLFERS FIELD

EXISTING PAO

DEVELOPMENT AREA #2

OFF LIMITS

EXISTING SCHOOL

OFF LIMITS

MULTI-PURPOSE STADIUM

MILL ROAD

NORTH

CURRENT ACCESS

KRIEBEL MILL ROAD

CURRENT ACCESS

CURRENT ACCESS

CURRENT ACCESS

METHACTON SCHOOL DISTRICT

HIGH SCHOOL CAMPUS PROJECT



SCHRADERGROUP