



SCHRADERGROUP

NORTH PENN SCHOOL DISTRICT

North Penn High School

FACILITY FORUM

9th Grade Center

09 April 2019



NORTH PENN HS ASSESSMENT HIGHLIGHTS





NORTH PENN HS ASSESSMENT HIGHLIGHTS

SITE

- ADA upgrades to building and to athletic fields
- Paving repair
- Drainage upgrades to eliminate ponding water and erosion
- Sidewalk and curb concrete repairs and replacement

ELECTRICAL AND LIGHTING

- Replace all lighting interior & exterior
- Replace most of the power distribution system (switchboards and panelboards)
- Add second transfer switch and new full building generators

NORTH PENN SCHOOL DISTRICT

BUILDING

- ADA upgrades
- Replace roofing system
- Replace windows and door systems
- Replace masonry sealants, flashing etc.
- Replace misc. finish systems throughout
- Improve administrative secure entry

HVAC

- Selectively replace HVAC system
- Replace hot water plant. Repair boilers
- Replace chillers
- Replace HVAC controls with fully integrated DDC system into the District-wide system



NORTH PENN HS ASSESSMENT HIGHLIGHTS

PLUMBING & FIRE PROTECTION

- Replace plumbing fixtures with ADA compliant water saving devices in areas other than the 1999 and 2004 additions
- Upgrade plumbing drainage systems
- Verify Lead Free requirements for potable water plumbing systems
- Replace water piping
- Provide high efficiency gas-fired water heaters
- Provide a sprinkler fire protection system to areas not currently covered. 1999 and 2004 areas have fire protection

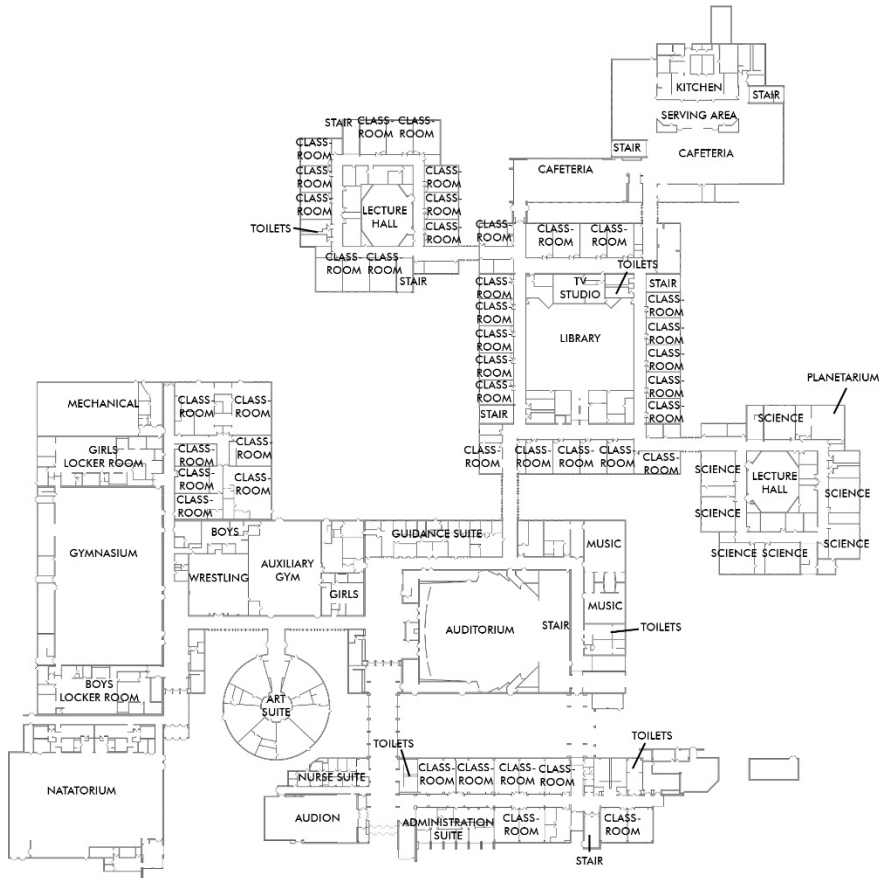
SAFETY & SECURITY

- Increase CCTV quantities with night vision
- Upgrade fire alarm system
- Replace all safety and security devices

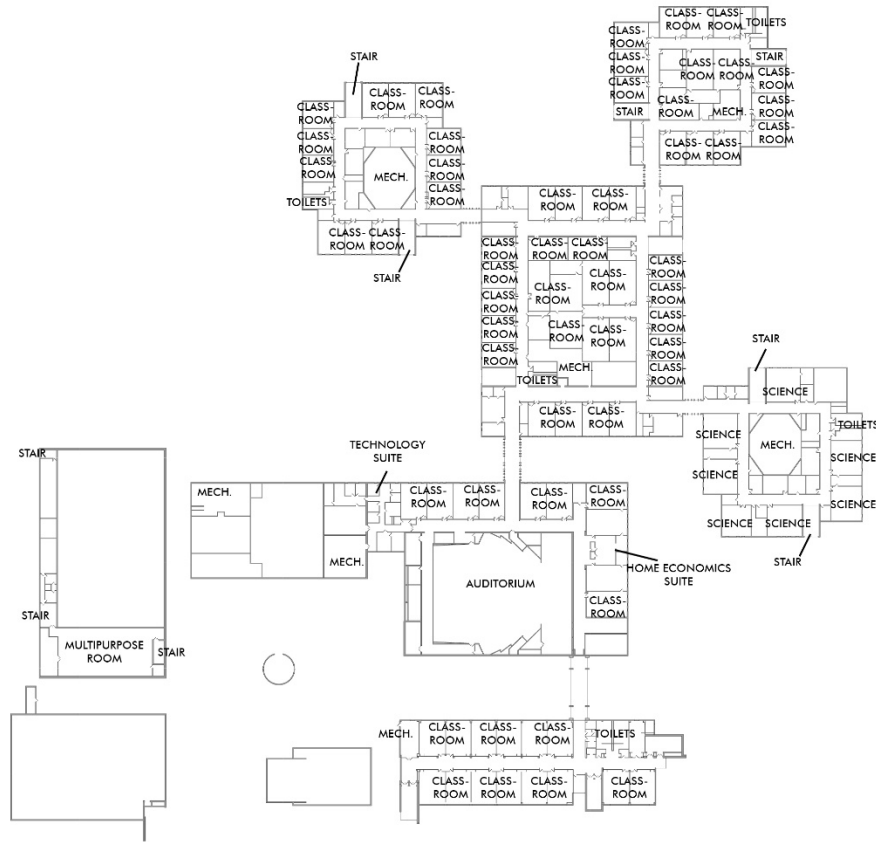
TECHNOLOGY

- Some data cabling system upgrades
- Update all AV technology
- Replace technology systems

NORTH PENN HS EXISTING PLAN



First Floor Plan



Second Floor Plan



Third Floor Plan

PROGRAM

CAPACITY students	NET SQUARE FEET total	GROSSING factor	GROSS SQUARE FEET total
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A. AREA SUMMARY

1 New Program Area	125,216 nsf	1.58 *	197,841 gsf
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* Note that the PDE allowable grossing factor is 1.58.

B. CAPACITY SUMMARY

1 Core Teaching Stations	47	
2 Teaching Stations	1,175	students
3 Utilization Factor	85%	
4 Effective Student Capacity	998	students

C. AREA ANALYSIS

1 Square Feet per student: Planned	198
2 Square Feet per student: Goal	190-200
3 Square Feet per student: Actual	-

D. AREA COMPARISON (Program)

1 Learning Spaces	84,436	133,409 gsf
2 Admin & Staff	5,324	8,412 gsf
3 Community Spaces	10,986	17,358 gsf
4 Media Resource	-	- gsf
5 Fitness & Wellness	13,670	21,599 gsf
6 Performing and Visual Arts	7,300	11,534 gsf
7 Facility Support	3,500	5,530 gsf
TOTAL GSF	125,216 nsf	197,841 gsf

E. AREA CHART

200,000 s.f. approx.



Existing



Concept Diagram





9th GRADE CENTER ADDITION ADVANTAGES

- The 9th Grade Center can function independently as NPSD transitions and may be merged as the HS program evolves
- Shared athletics, with additions
- Shared food services, with additions
- Shared media center/library
- Shared performing arts, visual arts & STEM spaces
- 9th Grade Center allows for swing space during phased HS construction in lieu of the cost of modular
- Complete overhaul of the existing building to allow for a 30 year (minimum) building



9th GRADE CENTER CONCEPTUAL BUDGET

9th Grade Center New Construction

(9th grade added from K-Pod down to dining)

Concept Budget Estimate

\$ 70-75 million

** Estimate to the midpoint of construction in 2022*



NORTH PENN HS EXISTING SITE PLAN



Site Plan



NORTH PENN HS CONCEPTUAL BUDGET

Renovations to & Space Conversion within Existing Bldg.

(Renovations of all team areas to provide open project space, STE(A)M spaces, etc.)

Concept Budget Estimate

\$ 160-170 million

** Estimate to the midpoint of construction in 2025*



PROPOSED SCHEDULE

PHASE	TIMELINE
DESIGN PROCESS	Jan 2020 – June 2023
CONSTRUCTION – NEW	Sept 2021 – Aug 2023
CONSTRUCTION – PHASED RENOVATIONS	June 2023 – June 2027
COMPLETE SITE CONSTRUCTION	June 2027 – Dec 2027