





DECEMBER 1, 2020

Webinar Presenters



TIM RIPP AIA, LEED AP Architect



JEFF CHADWICK AIA, LEED AP Architect



ADAM KENT Mechanical Engineering



WILLIAM POKOJSKI Associate AIA Architecture



DR. CHAD DENKER David City Public Schools Superintendent







- 74-year history, founded in 1946 in Lincoln, NE
- In-house expertise in master planning, architecture, engineering, landscape architecture, and interior design
- Staff of 130+
- More than \$300 million worth of PK-12 work in the past 10 years
- Pre-bond and community engagement assistance
- Innovators in the design of educational facilities

PK-12 SCHOOL EXPERIENCE



David City Public Schools



Twin River Schools



Freeman Public Schools



Pleasanton Public Schools



LPS, Kloefkorn Elementary School



LPS, Lincoln High School



Seward Middle School



Arapahoe Public School



District OR1, Elementary & Jr/Sr High



Elkhorn Valley Public Schools



Exeter-Milligan Schools



Friend Public Schools



Hastings Middle School



LPS, Moore Middle School



LPS, Lincoln East High School

West Holt Public Schools

65 SCHOOL PROJECTS, FOR MORE THAN 25 SCHOOL DISTRICTS



Arapahoe Public Schools Catholic Diocese of Lincoln Central City Public Schools Conestoga Public Schools David City Public Schools District OR-1 (Bennet & Palmyra) East Butler Public Schools Elkhorn Valley Schools Exeter-Milligan Public Schools Fillmore Central Public Schools Freeman Public Schools Friend Public Schools Hastings Public Schools Johnson County Central Public School Kearney Public Schools Lakeview Community Schools Leigh Community Schools Lincoln Christian Schools Lincoln Public Schools **Osmond Community School** Pleasanton Public Schools Schuyler Community Schools Scotus Central Catholic School Seward Public Schools Stapleton Public Schools **Sterling Public Schools** Syracuse Public Schools Thayer Central Community Schools Twin River Public Schools West Holt Public Schools West Point-Beemer Public Schools

David City Public Schools – Project Experience

- The Clark Enersen Partners has completed 19 projects with district
- 5 with Dr. Chad Denker as Superintendent









- Elementary and Jr/Sr High
- Superintendent since 2013
- Implemented 5-, 10-, and 20-year plans



STATE FUNDING

State Funding Options

- General Fund
- QCPUF (Qualified Capital Purchase Undertaking Fund)
 - Current Levy Limit: 3 cents
- Special Building Fund
 - Current Levy Limit: 14 cents



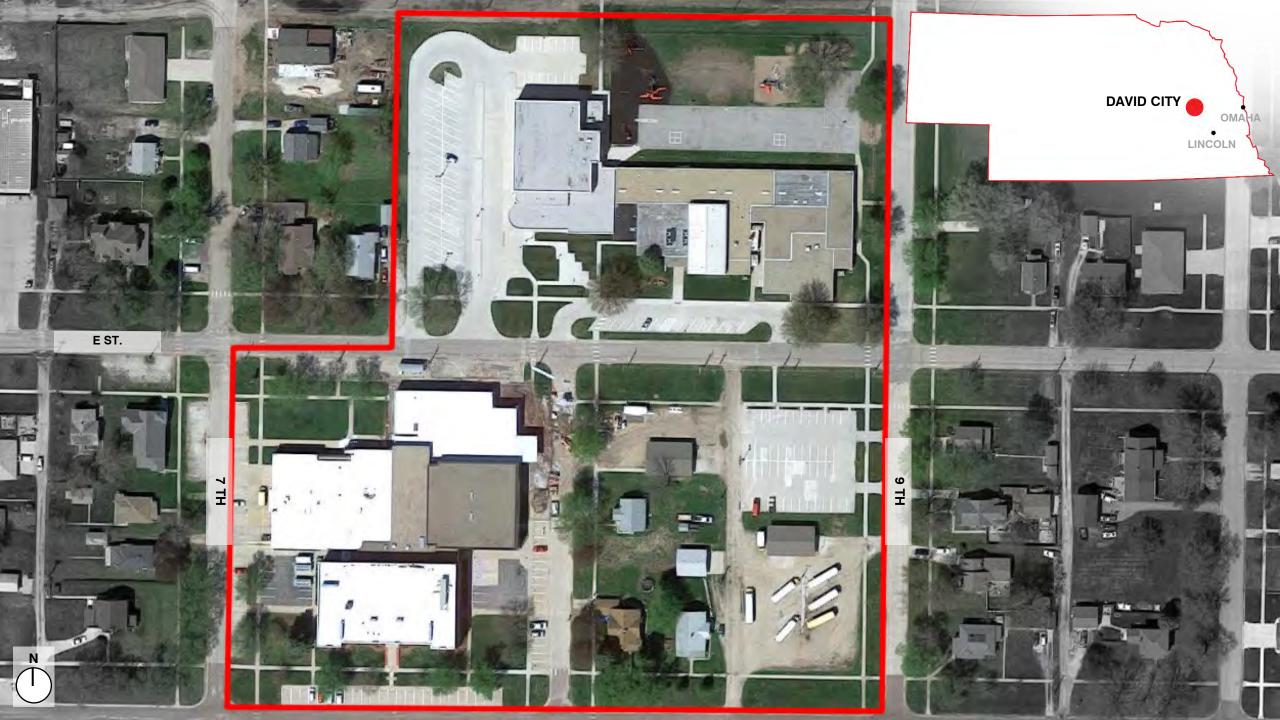
David City Public School – Financial History

- Various types of financing options
 - o Tax Anticipation Note
 - o Paid Cash
 - Lease-Purchase





APPROACH / METHODOLOGY



David City Public School Projects

LONG-TERM STRATEGIC PLAN

Overview of Current Work

Phase 1: Weight Room and Commons

Phase 2: Elementary Addition

Current Proposed Plan Forward

5- to 10-Year Plan Phase 3: High School and District Offices Phase 4: Theatre and Gymnasium Addition

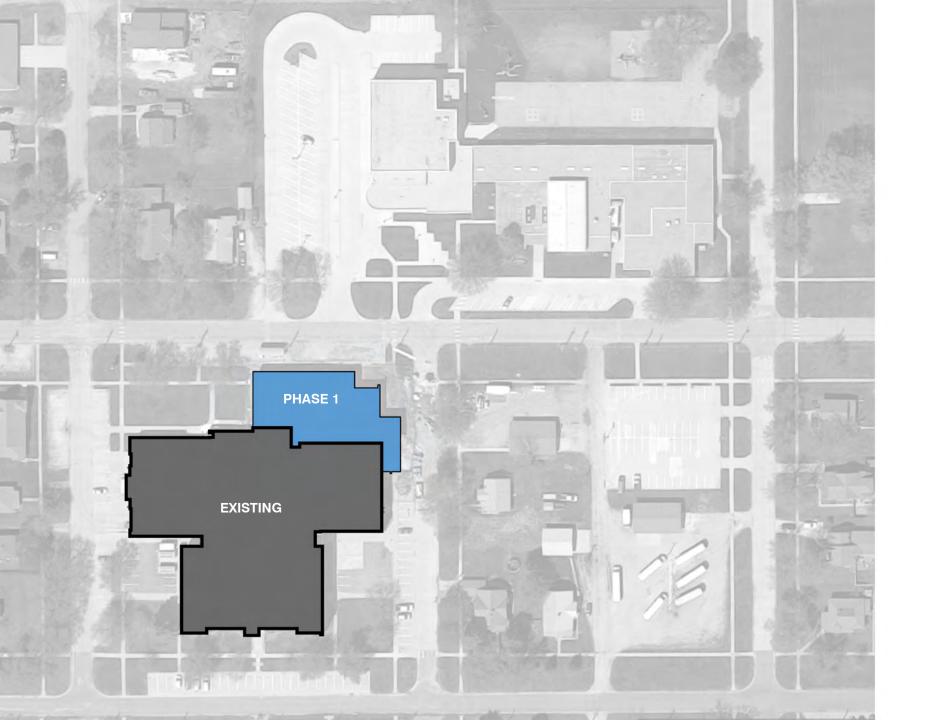
20-Year Plan

Phase 5: Locker Rooms and Wrestling Rooms Phase 6: Classroom Addition OR Renovation Phase 7: Bus Barn and Additional Parking Complete Aug 2021 2024-2026

Complete

Complete

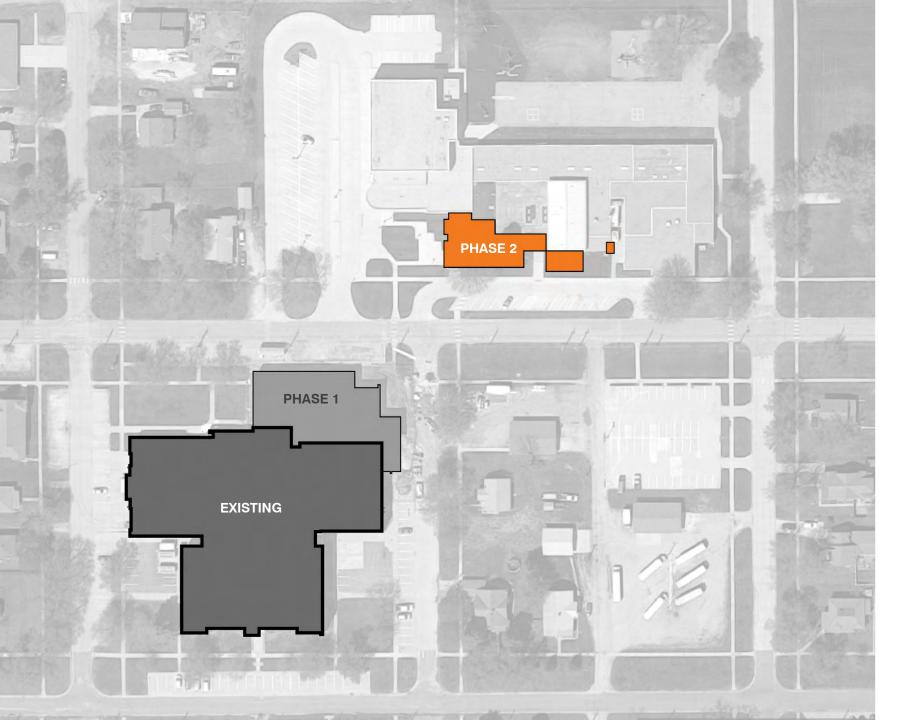
2028-2038 2028-2038 2028-2038



Completed 2015

- Activities entrance
- Commons
- Weight room
- Restrooms
- Concessions

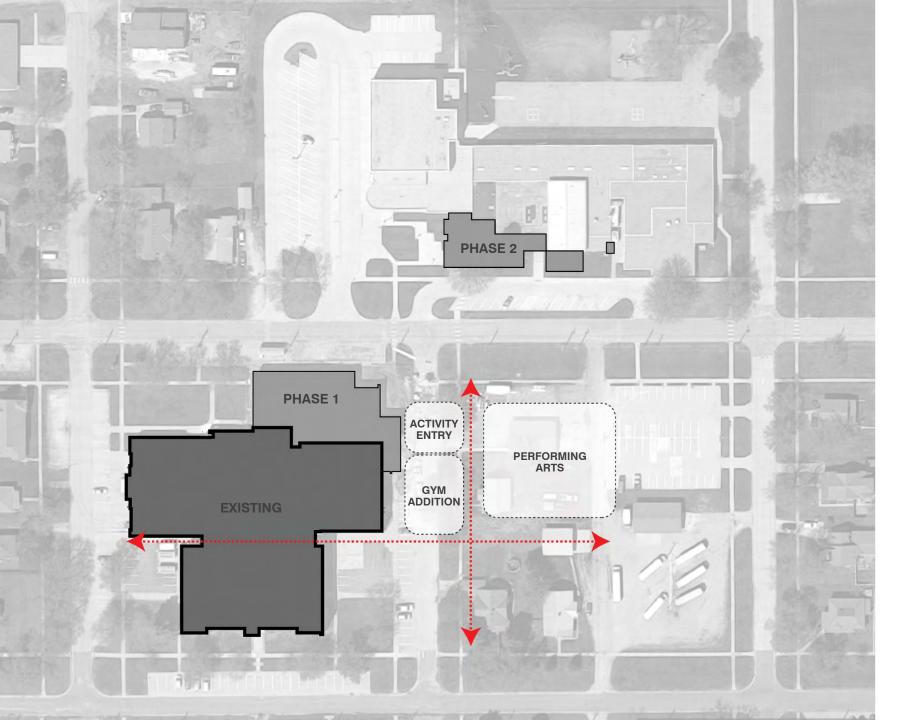
Project Area - 10,000 SF Project Cost - \$2,100,000



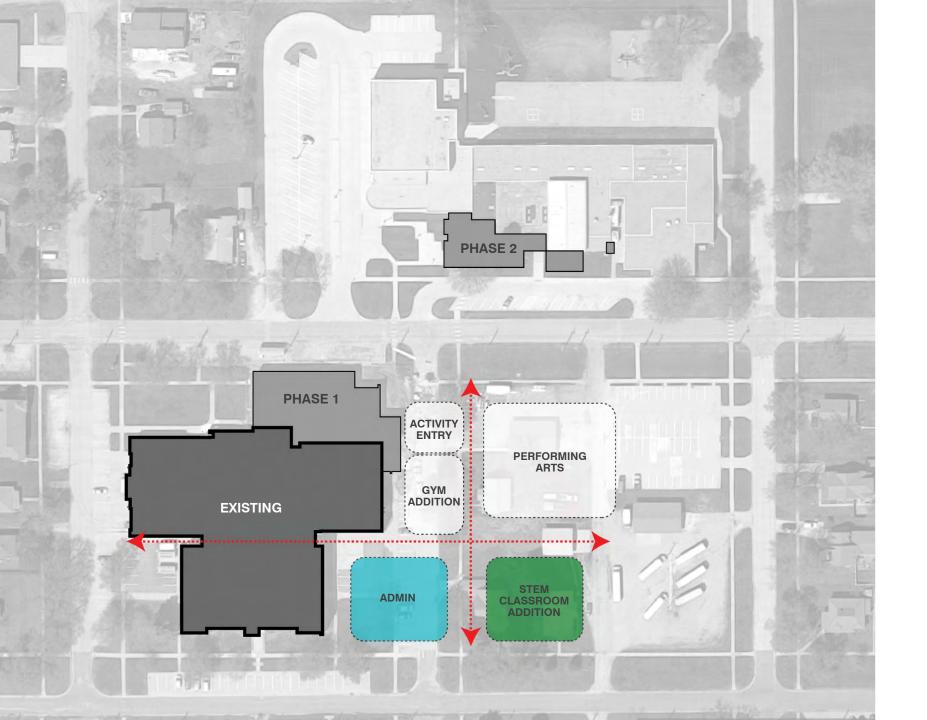
Completed 2018

- Elementary cafeteria expansion
- Kitchen freezer
- 4 special education classrooms
- Offices
- Conference room

Project Area - 6,000 SF Project Cost - \$1,400,000



SITE DIAGRAM



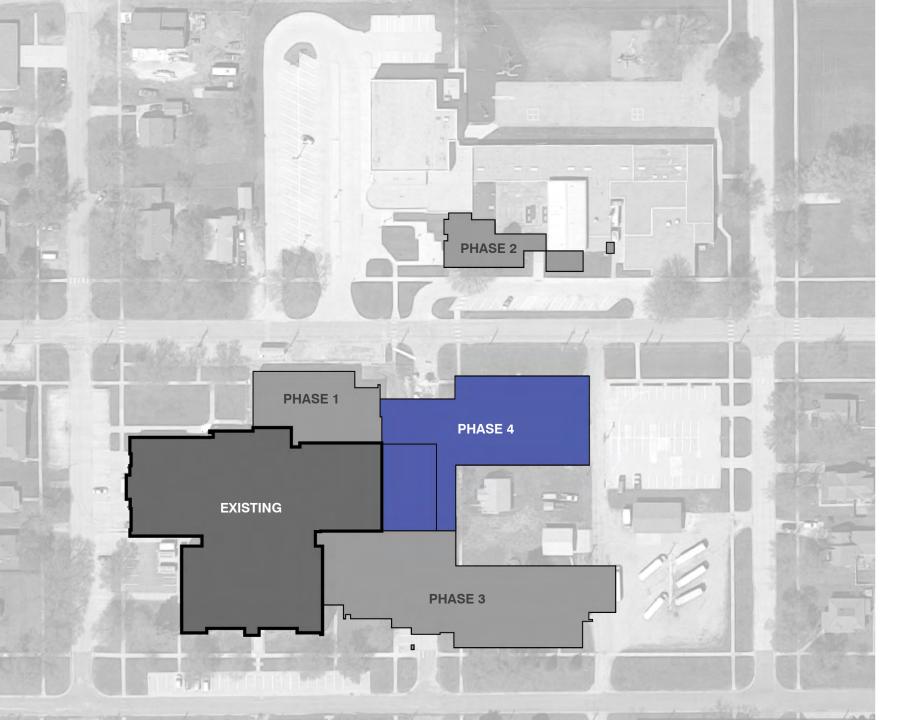
SITE DIAGRAM



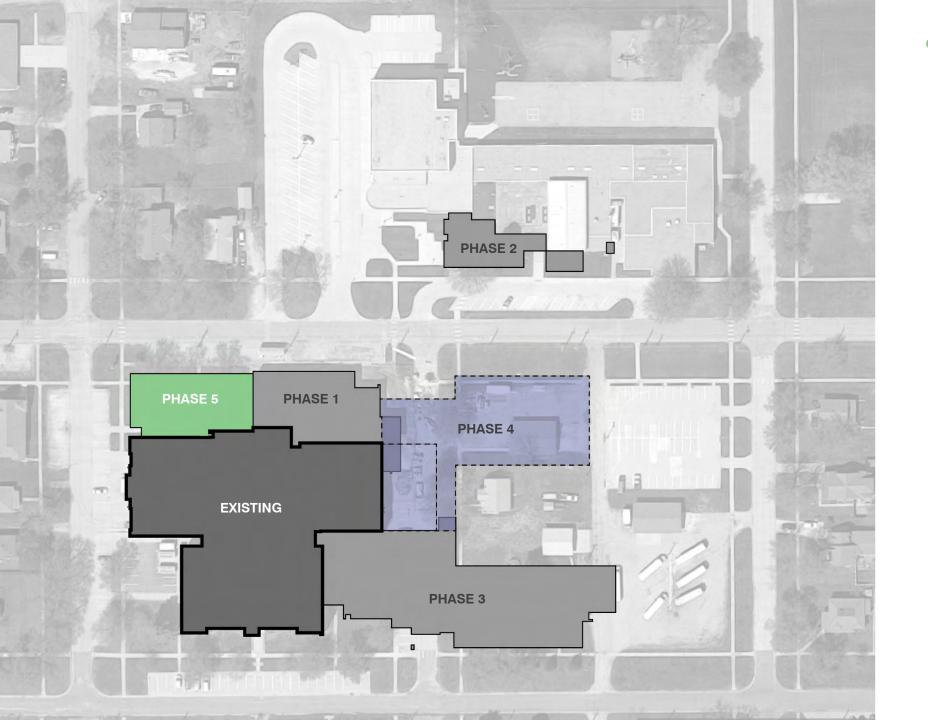
5-Year Plan – In Construction

- 3 science classrooms
- 1 art classroom
- 3 math classrooms
- 1 special education classroom
- District and admin offices

Project Area - 30,000 SF Project Cost - \$7,500,000



- Theatre and gym addition
- Locker rooms and wresting rooms
- 20 classrooms and 6 restrooms
- Bus barn/additional parking
- Competition gym



- Locker Rooms
- Wrestling Rooms



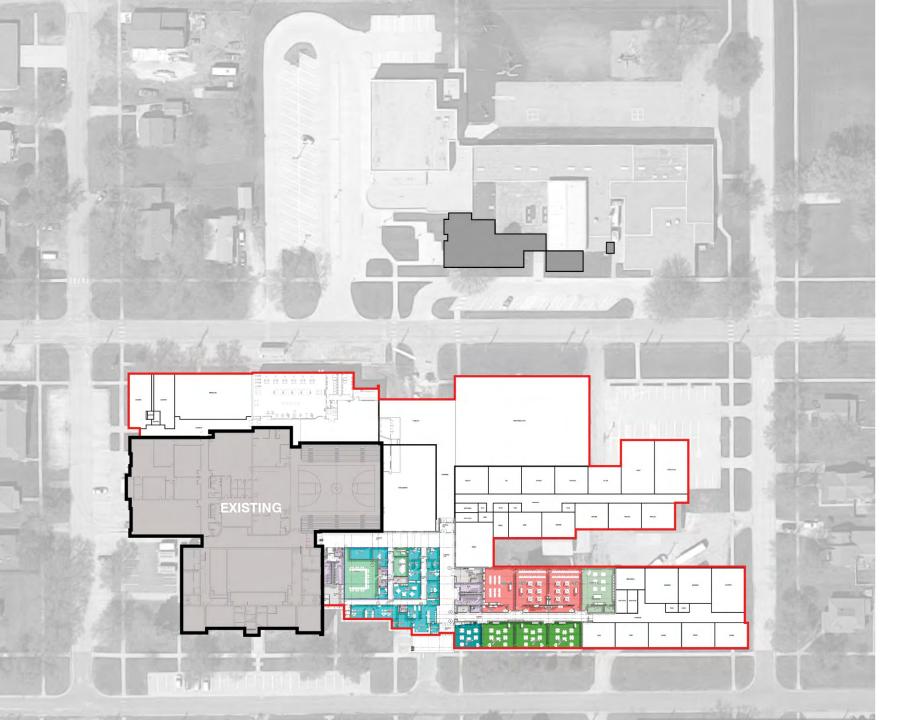
PHASE 6

- Classrooms
- Media center
- Restrooms

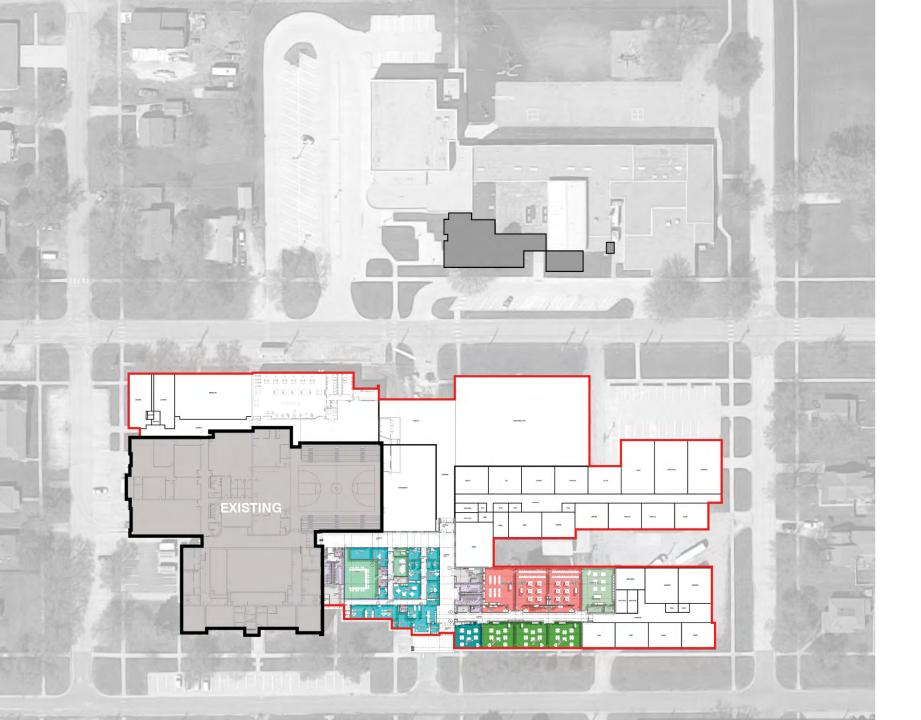


PHASE 6

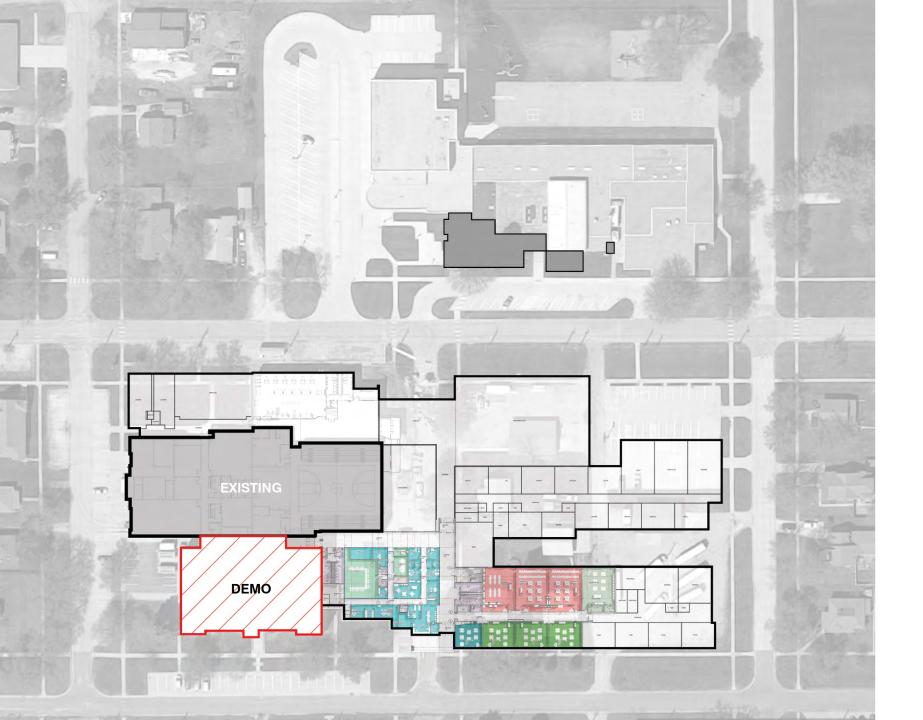
- Classrooms
- Media center
- Restrooms



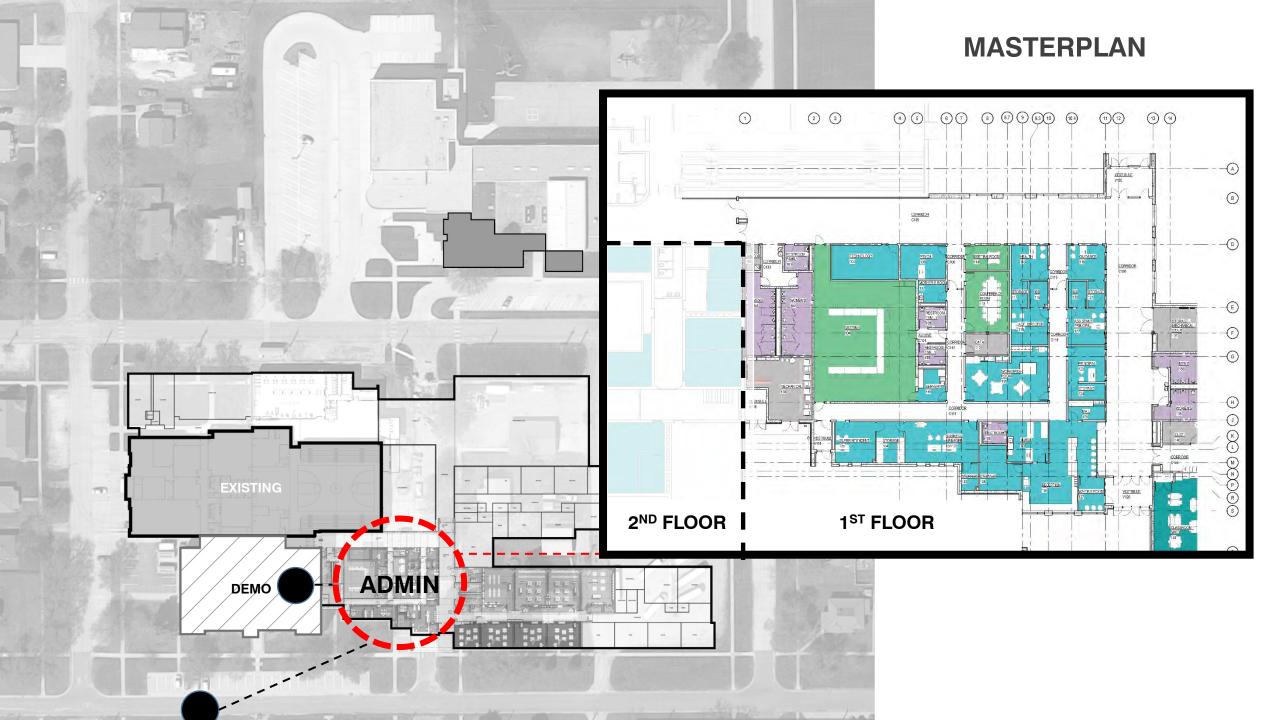
MASTERPLAN



MASTERPLAN



MASTERPLAN



Long-Range Facility Plan

• PHASE 1: Weight Rooms and Commons

Completed 2015 Project Area - 10,700 SF Project Cost - \$2,100,000

• PHASE 2: Elementary Addition

Completed 2018 Project Area - 6,000 SF Project Cost - \$1,400,000

PHASE 3: Admin and High School Classrooms

5-Year Plan Project Area - 30,000 SF Project Cost - \$7,500,000

• PHASE 4: Theatre and Gym Addition

10-Year Plan Project Area - 26,500 SF Project Cost - \$5,500,000 PHASE 5: Locker Rooms and Wrestling Rooms 20-Year Plan
Project Area - 9,400-10,000 SF
Project Cost - \$2,500,000

PHASE 6: 20 Classrooms, Media Center, and 6 RRs Project Cost - \$7,000,000 Project Area - 28,000-37,300 SF OR Renovate Current 3 Story Building 20-Year Plan

Project Cost - \$4,000,000

PHASE 7: Bus Barn and/or Additional Parking 20-Year Plan Project Area - TBD Project Cost - \$500,000

 PHASE 8: Competition Gym 20-Year Plan
Project Area - 12,000 SF

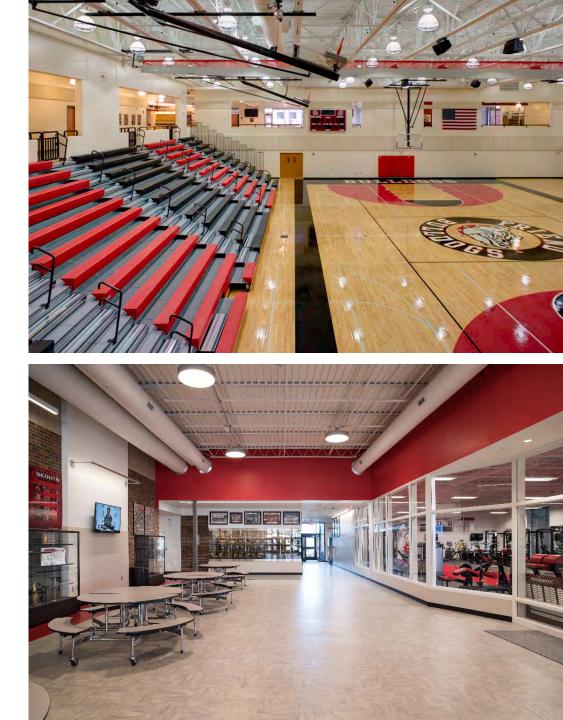
Project Cost - \$4,000,000

HOW TO START A PROJECT

01-12

E

- Analyze Existing Conditions
- 2 Identify Educational and Facility Needs
- 3 Facility Improvements / Code Improvements
- 4 Master Planning
- 5 Establishing Budget and Costs
- 6 Build Support / Community Engagement



ANALYZE EXISTING CONDITIONS

- Size and configuration of the facility
- Physical building constraints
- Condition of structural system and building envelope
- ADA/Accessibility
- Life Safety and Codes
- Site





ANALYZE EXISTING CONDITIONS

- Condition and location of existing infrastructure
 - Mechanical Systems
 - Plumbing/Sanitary and Storm
 - Fire Suppression
 - Electrical (power distribution and lighting)
 - Fiber Optic
 - Life Safety/Fire Alarm

Demand Controlled Ventilation (DCV) Demand controlled ventilation systems only ventilate where needed. Sensors in each room measuring CO2 and temperature regulate the indoor climate and make the ventilation system dynamic and intelligent, saving from 30 to 80% of energy for ventilation, cooling and heating.





IDENTIFY NEEDS

- Gather input from various user groups
 - Building Committee
 - School Board, Administration, Faculty, and Staff
 - o Students
 - Community and Business Leaders



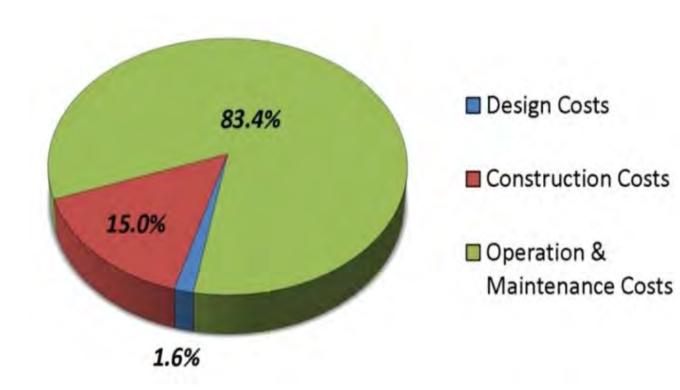
IDENTIFY NEEDS

- Develop Program
 - Educational vs. Functional
 - o Blend of Both
 - Think about future

Hasting Middle School P	rogramming Worksheet	Space S	Hasting Middle School Programmin	g Works	heet		
	nts	Space Summary	sh Classroom Classroom	a occup nts		NSF ea	NSF subtotal
Space Summary		2.3.4 Heater	Studies Classroom	30		880	1.760
	1			30	2	880 880	1,760
	3 10 -	2.3.8 1 000	Chass/oom/Storage	30	1	880	1.760
A 1 2 Administration	Room - Sman 49 1	Core Classrooms Sub-	oms	30 150	2	600 1,280	1.200 2.560
		3.0 Specialized	iPod Commons oms ztal	150	2		2,000
1.1.4 Rentral Supplies Storage 1.1.5 Central Supplies Storage 1.1.6 Shared Conference Room	center 2 1	3.0 Specialized/Exploratory C 3.1 Foreign Langua 3.2 Art	lassrooms				31,520
1.1.5 Conference Room 1.1.6 Shared Conference Room 1.1.7 Teacher workroom/Copy		3.2 Art	90				
1.2 Guidance 1.2.1 Counselor Office	toom - small 10	3.2.2 Art Class	sroom- Clean Broom - Dirty		1	880	880
1.1.7 Teacher worker 1.2 Guidance 1.2.1 Counselor Office 1.2.2 Counseling Conference F		3.2.3 Kilo Dec	- Dirty	30 30	1	935	
1.3 Nurse 1.3.1 Nurse Office 1.3.2 Nurse Station		3.3 Music	n/Storage	30	1	935 75	935 935
1.3.2 Nurse orom 1.3.3 Sick Room					1	150	75
1.3.3 Sick Room 1.3.4 Changing Room 1.3.4 Restroom (unisex)		Hasting Middle School Programm	ng Workshaw			1	
1.3.4 Resupport 1.4 Teacher Support			a residence			E	1,400 2,200
1.4 Teacher Support 1.4.1 Teacher's Loungell 1.4.2 Staff Tollet - Men 1.4.3 Staff Tollet - Work	Space Summary						1.675
1.4.3 Stan Team Roo	instruction instruction		occupa Qty NSF NS	F		F	240
1.4.4 Shared Support 1.5 Technology Support	4.1 Library	Media Center	nts ea subt	tal			
1.5 Technology Support 1.5.1 Tech Coordinator 1.5.2 Network Server/	4.1.2	AV Storage	60 1 4 400				2,300
Administrative Subtotal	4.2 Como	Conference Room	1 1 4,400 4,4			2	400 200
2. Grade Pods 2.1 6th Grade Pod (2 team	4.2.1 4.3 Diversion	Computer Lab	6 1 200	50			600
2.1 6th Grade Pod R Classr 2.1.1 English Classr 2.1.2 Math Classroot	4.3.1	200cation/Athletics	30 1				100
2.1.2 Math Classics	4.3.3	ntramural Gym	1,000 1 11,000 11,00			2	00
2.1.4 Reading Clas	4.3.4 S 4.3.5 P	Vrestling/Multi-purpose Room trength & Exercise Room E. Storace	1 6,000 6,00	0		5	00
	4.3.6 B	OVS Lockes D	1 3.200 3.20	5		12	60 25
2.1.8 Locker/Pou	4.3.7 G 4.3.8 C	rls Locker/Visitors irls Locker/Visitors Dach Office/Shower/Toilet	1 200 20	1		10	0
2.2.7th Grade Pod (2 W	Auxiliany Subtract	aren Ornce/Shower/Toilet	2 800 1.600			1.20	0
2.2.2 Math Clas	5.0 Support Spaces	2 may anower/Toilet	2 180 360	1			
2.2.3 Social Stu 2.2.4 Reading	5.1 Food Servic		30,590	1		880 600	
2.2.5 Resource 2.2.6 Science				1		2,300	1
2.2.8 Locker/F	5.1.3 Wal	k-In-Contest	1 1,500 1,500			22,205	1
2.2.9 Battwood 2.3 8th Grade Pod	5.1.4 Dry 5.1.5 Offic	Storage	1 210 210			-	1
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	5.2 Student C	ressions	1 120 120			Parit	ners
	620	Int Commons	1 135 135		- 1		
			300 1 4.200 4.200				
			1 800 800		1		
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	5.4.1 Centra 5.4.2 Receiv 5.4.3 Main	ing Area/Dock	500 600				
			1 1,000 1,000 1 600 600				
	Support Spaces Subtot	lal	1 200 200 1 125 125				
	TOTAL NSF		10,135				
					1		
	Total GSF	efficiency 7:	3% 98,450				
			134,863				
		4/8/2000					
	4/6/2006, 2:39 PM The Clark Enersen Portners						
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FACILITY IMPROVEMENTS / CODE IMPROVEMENTS

- Prioritizing projects
 - What is more important to get done first
- Life Cycle Cost Analysis



MASTER PLANNING

- Coordinate phasing different programs
 - Be Strategic
 - Academic vs. Athletic
- Forecast infrastructure needs
- Revisit master plan periodically
 - Phases and timeframes
 - Educational delivery



ESTABLISHING BUDGET AND COSTS

32 XHOY HCWS/HCWR pipin

SCOPE						BUDGET					
C	Sahaal	Current Chabus	Deleviter	Decision Date	Prioritization						
3	School	Current Status	Priority	Decision Date	Estimated Cos	t Unit Pri	ces High Priorities	Medium	Lo		
M	Mechanical:			\$8,590,220		\$8,360,2	220				
1	Well field		H		\$720,720		\$720,720	\$0	\$0		
2	Existing equipment		н		\$0		\$0	\$0	\$0		
3			м	**	\$18,000		\$0	\$18,000	\$0		
4	Existing drinking fountains (replace)		4		\$0	\$900		\$0	\$0		
5	Storm sewer inlet repair	M-TL	н		\$5,000	4	\$5,000	\$0	\$0		
6	Water service/piping replacement	M-TL	H		\$31,500	1.	\$31,500	\$0	\$0		
0	Upgrade backflow preventers, boiler room	M / M-TL	1	-	\$0		\$0	\$0	\$0		
7			1		-	-					
	Classroom hot / cold water lines	M-TL	- L		\$0		\$0	\$0	\$0		
8	Classroom sink replacement	M-TL	L		\$0	\$350	\$0	\$0	\$0		
9	Faucet / fixture replacement	M/M-TL	H/M		\$30,000	\$600	\$15,000	\$15,000	\$0		
10	Roof drain upgrades	M-TL	н		\$30,000	(E	\$30,000	\$0	\$0		
	Overflow drain upgrades		Đ		\$10,000	1	\$10,000	\$0	\$0		
12	Add / upgrade wall hydrants	M-TL	ù.		\$0	\$800	\$0	\$0	\$0		
	Upgrade yard hydrants / lawn irrigation	M		1	\$0	-	\$0	\$0	\$0		
-	Wall vs yard hydrants	M			\$0		\$0	\$0	\$0		
13		M-TL	in M-18	+	\$0	+	\$0	\$0	\$0		
13			IN M-10	-		-	7.		1		
	Boiler room, upgrade 1 to high efficient WH	М	_	1	\$0	-	\$0	\$0	\$0		
	19. Sanitary sinver upgrades	É.	\$55,00		50 50	\$55,000		_			
	20 Sanitary system analysis by finatos 21 File granities survice	by LPS L	\$10.00		\$0 \$0 \$15,000 \$0	1.10.000					
	21 the sponklet		80000		\$500,000 \$0	\$0	Charg wanty Sir / Iny to loove some control	m 8 wmg / mitoca \$100,000	0		
	22 Crost survice	- H	\$3.000		\$5.000 50	\$0	consolitidation of anylose (firm) to interrup	Hablett in bollet toorn			
	23 Ductwork cleaning in ductwork to remain	L.	\$25,00		\$0	\$25,000	inclusion to have priority do not clour of		1		
	24. Xhauri Shudum muhusmv (upgradov)4.	M	\$20,00	0	\$0 \$0	\$20.000	national lower level shorage runn / upgrade falures flow and senals				
	25 Modity outlide air Intakes, leaves collect 26 Install have bib in Custodiat barage	M in M-18 M-11 E	\$0		30 50 50 50	\$0	need to abandon tome-units / possibly install lowers on the table of wall				
	28 Install hole bio in Contection galage	M-G E	\$16.00		\$18.000 \$n	32000	look at alter funding sources for dust collector (US buy the eavipment \$7,000				
	28. Kitchen Nord replacement		\$20.00		\$20,000 \$0	50	fors and equipment in M-BL type 1 hoods, no AMSUL				
	29. Swimming bool pipe replacement	H	\$15.00	0	\$15,000 \$0	\$0	piping replaced by 1P5, need work on the drains				
	Swimming pool gutter adjustments	м.	\$50,00	0	\$0 \$50,000	\$0	adjust height of perimeter circulation gutter				
	30 Sheliwi shumi mutani mutan mulan	. н	\$8.00		\$8.000 \$0	\$0	rendenced with minicipic for converging in	mi) to cattri for highly push such	N		
	31 Restroom exhaust fan tepladement	H	\$5.00		\$5,000 \$0	\$0	tome to fat from ERU t				



BUILD SUPPORT / COMMUNITY ENGAGEMENT

- Identify key stakeholders to involve
 - School and community involvement
- Develop methods for information gathering and sharing
 - Public meetings
 - Social media
 - o Online surveys
- Share an initial plan
 - o Gather feedback
 - Not a blank slate





TIM RIPP AIA, LEED AP Architect tim.ripp@clarkenersen.com

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Architecture william.pokojski@clarkenersen.com



DR. CHAD DENKER

David City Public Schools Superintendent denker@dcscouts.org

clarkenersen.com

davidcitypublicschools.org

