

Second High School









INTRODUCTION TO PROCESS

SITE PLAN + FLOOR PLANS

3D VIEWS

✓ VR EXPERIENCE

Major Team Submissions including Architectural, Civil, Structural, Mechanical, Electrical, Plumbing, & Fire Protection

Schematic Design Phase	15%
Design Development Phase	30%

Construction Documents Phase 30%

Bidding Phase 3%

Construction Phase 22%

Total Basic Services 100%







Projected Milestones

°Design Team
BOE Work Session—30 Oct '17
Schematic Design—Second HS
Municipal Code Review
Nichols Career Center Review
Schematic Design—Current HS
BOE Work Session—1 Dec '17 (+/-)
Municipal Code Review
Design Development Kick-Off Meeting

Design Development Report—Second HS 16 Feb '18 Design Development Report—Current HS 15 Mar '18 Construction Documents—Second HS 15 May '18 Construction Documents—Current HS 15 June '18 °CMaR—Pre-construction Services Schematic Design Review Aug-Nov '18 **Design Development Review** Nov-Feb '18 Construction Documents Review





Mar-Jun '18



Projected Milestones

°Preliminary Site Investigations

Site Civil Survey—Open Areas

Jul '17

Geotechnical Investigations—Open Areas

Aug-Sep '17

°Construction Activities

Site Clearing & Grubbing Documents

Aug-Nov '17

Structural Documents

Nov-Feb '18

Phase One Second HS

Jan '18-Aug '19

Phase Two Second HS

Aug '19-Dec '19

Phase One Current HS

June '18-Dec '19



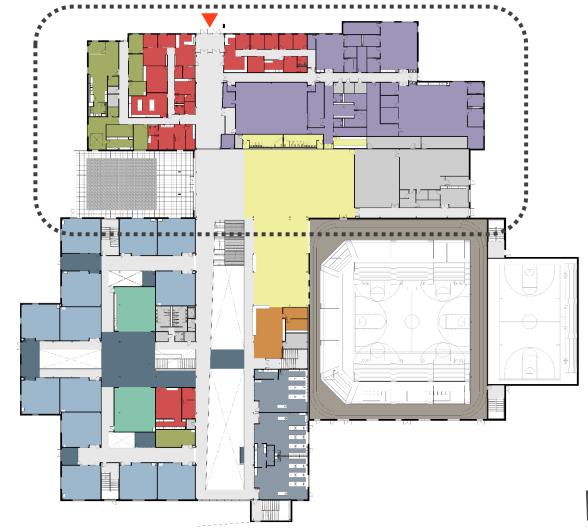








- Administration
- Special Services
- Performing Arts
- Commons
- Media Center
- Fitness/Health
- Fine Arts
- Practical Arts
- Academics
- Collaboration
- Science
- Building Support



Counseling Sped Admin \ **LEGEND** Administration **Special Services Performing Arts** Commons Theater Media Center Fitness/Health Fine Arts **Practical Arts** Kitchen Academics **Patio** Collaboration 4444 Science **Building Support**

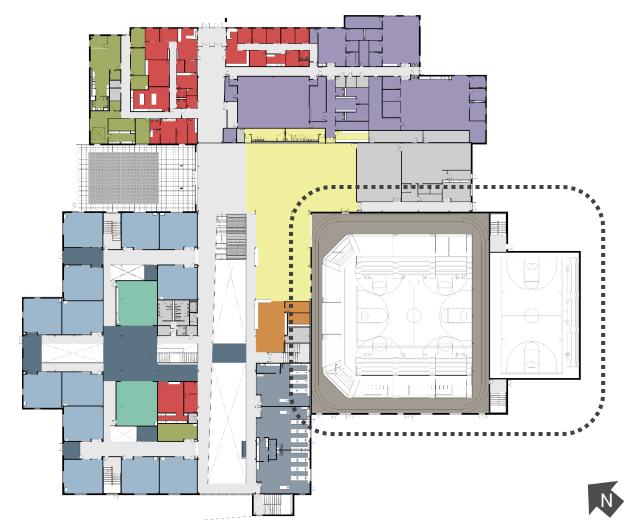




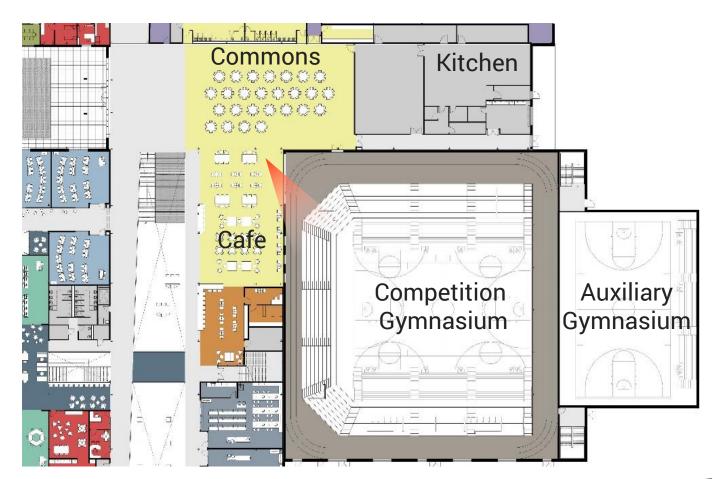
Vocal



- Administration
- Special Services
- Performing Arts
- Commons
- Media Center
- Fitness/Health
- Fine Arts
- Practical Arts
- Academics
- Collaboration
- Science
- Building Support



- Administration
- Special Services
- Performing Arts
- Commons
- Media Center
- Fitness/Health
- Fine Arts
- Practical Arts
- Academics
- Collaboration
- Science
- Building Support









- Administration
- Special Services
- Performing Arts
- Commons
- Media Center
- Fitness/Health
- Fine Arts
- Practical Arts
- Academics
- Collaboration
- Science
- Building Support



- Administration
- Special Services
- Performing Arts
- Commons
- Media Center
- Fitness/Health
- Fine Arts
- Practical Arts
- Academics
- Collaboration
- Science
- Building Support

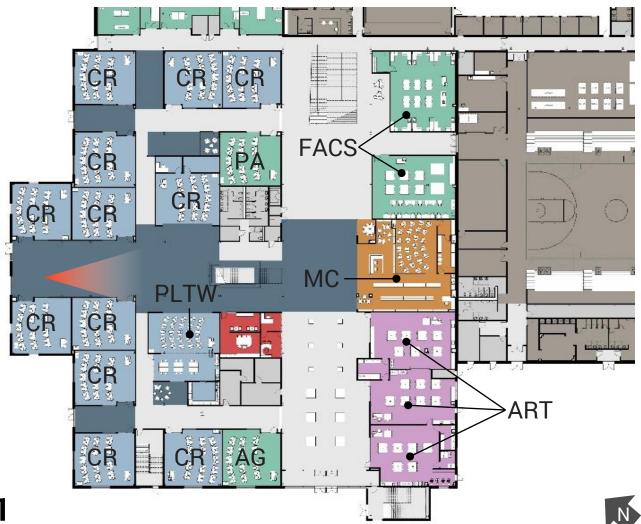




- Administration
- Special Services
- Performing Arts
- Commons
- Media Center
- Fitness/Health
- Fine Arts
- Practical Arts
- Academics
- Collaboration
- Science
- Building Support



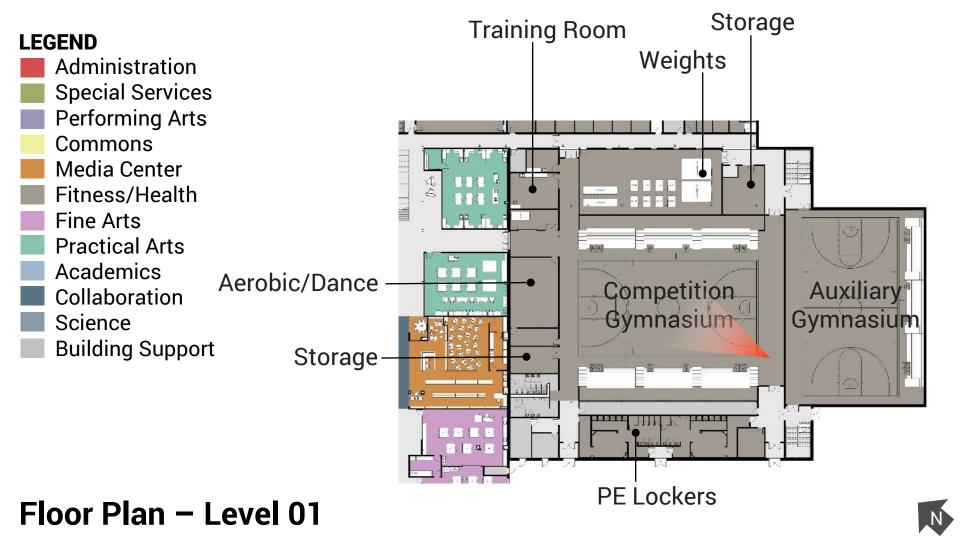
- Administration
- Special Services
- Performing Arts
- Commons
- Media Center
- Fitness/Health
- Fine Arts
- Practical Arts
- Academics
- Collaboration
- Science
- Building Support





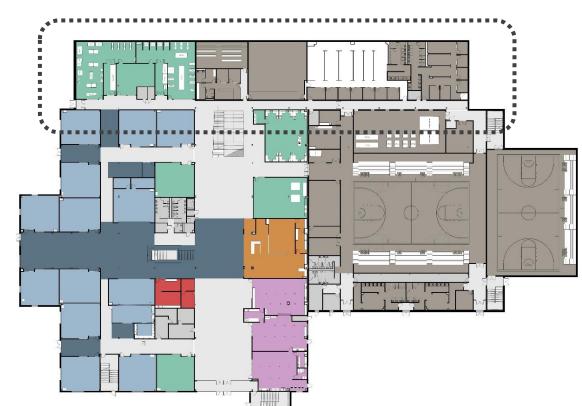
- Administration
- Special Services
- Performing Arts
- Commons
- Media Center
- Fitness/Health
- Fine Arts
- Practical Arts
- Academics
- Collaboration
- Science
- Building Support





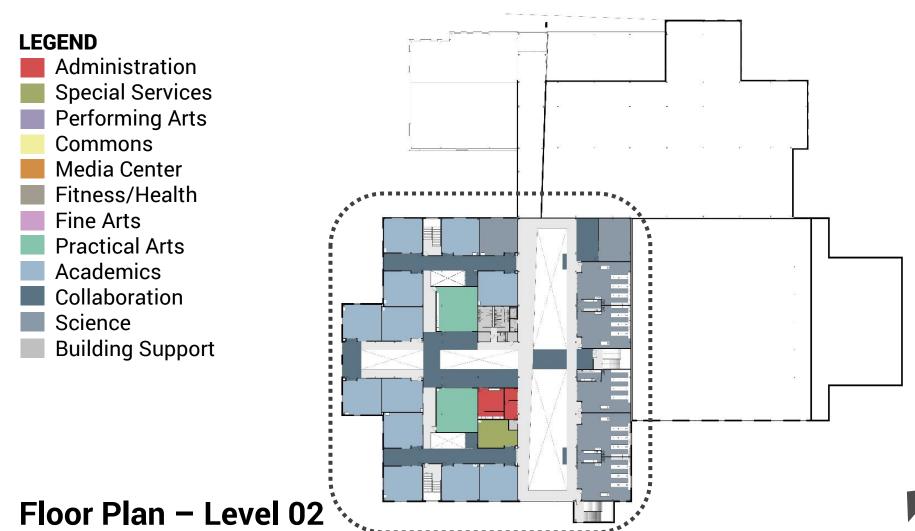


- Administration
- Special Services
- Performing Arts
- Commons
- Media Center
- Fitness/Health
- Fine Arts
- Practical Arts
- Academics
- Collaboration
- Science
- Building Support

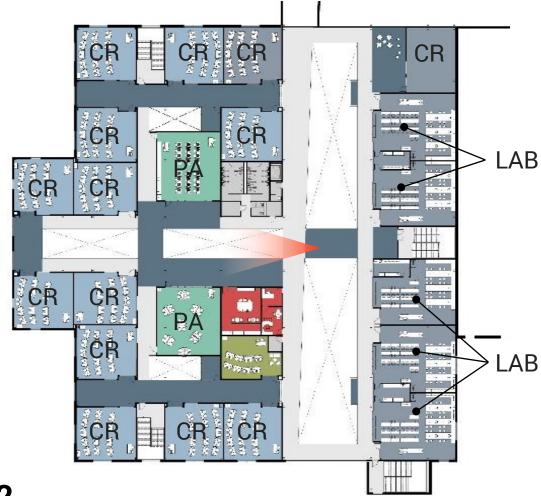


LEGEND Administration Woods Studio Wrestling Room **Special Services Performing Arts** Metals Studio Athletic Lockers Commons Health Media Center Fitness/Health Fine Arts **Practical Arts** Academics Collaboration Science **Building Support AD Suite**





- Administration
- Special Services
- Performing Arts
- Commons
- Media Center
- Fitness/Health
- Fine Arts
- Practical Arts
- Academics
- Collaboration
- Science
- Building Support

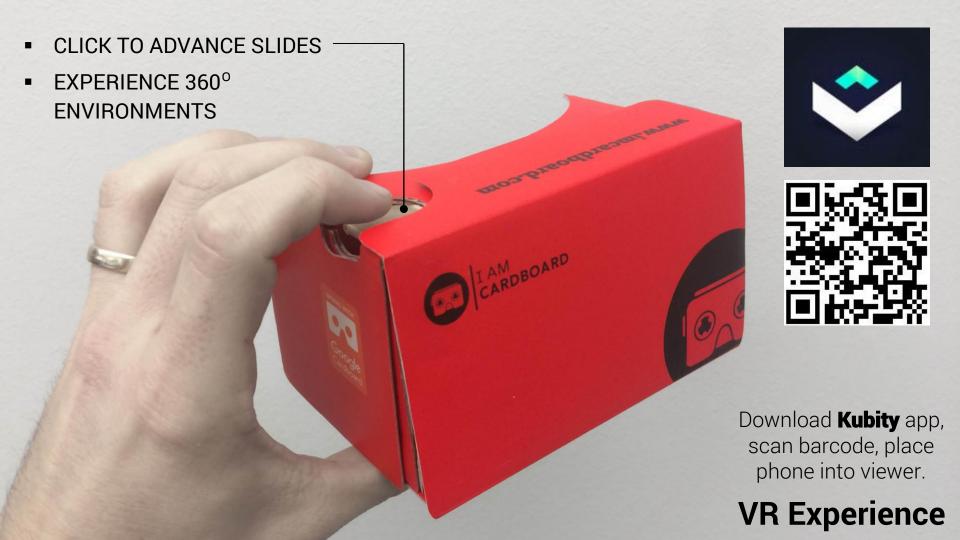




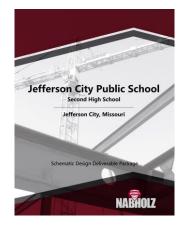




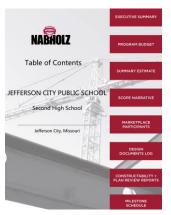








Cover



Contents



Summary 1



Summary 2



Scope Narrative

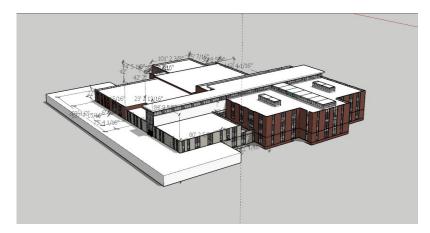


JCPS SD Deliverable



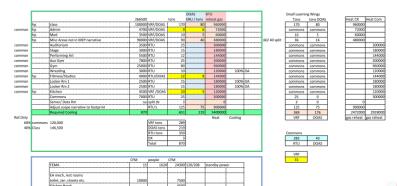


- Scope Clarity
- Quantify Building Materials
- Cost Modeling



HVAC

ish Washer EA Duct





COLLABORATION

ITEM DESCRIPTION	QUANTITY	LABOR	MATERIAL	Total Cost/Unit	SUBTOTAL	TOTAL AMOUNT
Panelboards, 3 phase 4 wire, main lugs, 277/480 V, 225 amp, 36 circuits,	5.64 [*] ea	5,930	10,637	2,937.46 /ea	16,567	17,386
Motor starter, combination, with fused switch, size 1, 10 HP, NEMA 1	3.76 ea	1,095	2,454	943.77 /ea	3,549	3,634
Motor control centers, enclosure, CB's, switches, avg. cost per amp	235.00 amp	1,946	1,965	16.64 /amp	3,910	4,385
Surface raceway, metal, straight section, base & cover, blank, no. 6000	846.00 If	6,405	9,683	19.02 /lf	16,088	17,215
Exploratory Labs hookups	3.76 ea	5,854	7,550	3,565.00 /ea	13,404	14,611
A/V dimming controls points in each room/area	146.64 ea	11,416	13,987	173.23 /ea	25,402	27,854
Backbox, ring, wire & pigtail, single pole switch, plate, avg cost/ea	119.38 [*] ea	2,824	3,047	49.18 /ea	5,872	6,534
Backbox, ring, wire & pigtail, 3-way switch, plate, avg \$/ea	39.48 ea	1,214	1,732	74.63 /ea	2,947	3,174
Backbox, ring, wire & pigtail, duplex receptacle, plate, avg \$/ea	948.46 ea	14,809	34,680	52.18 /ea	49,490	50,438
Backbox, ring, wire & pigtail, GFI duplex receptacle, plate, avg \$/ea	107.16 ea	1,673	4,703	59.50 /ea	6,376	6,377
Backbox, ring, wire & pigtail, quadplex receptacle, plate, avg \$/ea	197.40 ea	3,885	10,930	75.06 /ea	14,816	14,818
Circuit breaker, 3 pole, 600 volt, 30 amp, enclosed (NEMA 1)	84.60 ea	10,007	42,469	620.29 /ea	52,476	50,549
Circuit breaker, 3 pole, 600 volt, 60 amp, enclosed (NEMA 1)	3.76 ea	508	2,322	752.65 /ea	2,830	2,710
Control stations, heavy duty, hand/off/automatic, NEMA 1	3.76 ea	230	378	161.45 /ea	607	643
Generator set, diesel, 3 phase 4 wire, 277/480 V, 500 kW, incl battery, charger, muffler, & day tank, excl conduit	0.94 ea	4,906	82,107	93,331.83 /ea	87,732	78,419
LED 1 2x4	1,236.10 ea	82,087	168,110	202.41 /ea	250,196	258,708
LED 2 2x2	45.12 ea	3,634	8,347	265.54 /ea	11,981	12,236
LED 3 4' wrap around	129.72 ea	15,839	31,781	367.11 /ea	47,621	49,352
LED 4 8' x 12"strip	75.20 ea	5,371	16,920	296.42 /ea	22,291	22,049
LED 5 down lights	91.18 [*] ea	17,257	18,692	394.26 /ea	35,949	39,985
LED 6 high hat cans decoative down lights	38.54 ea	2,177	9,057	291.50 /ea	11,234	10,840
LED 9 exterior wall wash down lights	13.16 ea	1,245	4,277	419.63 /ea	5,522	5,418
Lighting & Special Systems allowance, fixtures, raceway/wiring, Orch Pits	705.00 sf	3,336	5,663	12.76 /sf	8,998	9,502
Lighting raceway, to 3/4" EMT w/ conductors, avg. \$/sf, fitout	113,740.00 sf	107,633	64,235	1.51 /sf	171,868	204,106
Lighting dimmer and/or motion sensor controls allowance, avg. \$/sf, fitout	113,740.00 sf	-	-	0.65 /sf	73,931	63,954
Exit lighting, LED w/ battery unit, single face, ceiling or wall mount	30.08 ea	2,588	4,832	246.67 /ea	7,420	7,751
Emer LED It units, btry, twin sealed bm It, 25 W, 6 V ea, nickel cadmium btry	28.20 ea	2,669	15,855	656.87 /ea	18,524	17,398
Fixtures -LED 7 hi bay with wire guards NAB	35.72 EA	6,430	16,967	680.00 /EA	24,290	24,323
Fixtures -LED 8 hi bay with wire guards NAB	16.92 EA	3,046	6,599	595.00 /EA	10,067	10,277
Bored Piles (Pier Drilling)	205.00 EACH	37,070	244,309	1,466.30 /EACH	300,591	279,119
Learning Community	252.000.00 saft	4.976.012	12.882.642	78.20 /saft	19.706.010	40 E07 200

LINE ITEM ESTIMATES

ITEM DESCRIPTION	10/6/2017 SCHEMATIC DESIGN	OWNER BUDGET
CONSTRUCTION	114,052,968	100,000,000
EXISTING HIGH SCHOOL ADDITIONS AND RE 2ND HIGH SCHOOL	43,095,151 70,957,817	35,000,000 65,000,000
DESIGN	8,291,040	0
ARCHITECTURAL & ENGINEERING FEES CIVIL GEOTECHNICAL INVESTIGATION REIMBURSABLES	7,500,540 640,000 74,500 76,000	
OTHER COSTS	11,310,500	30,000,000
ASBESTOS MITIGATION FURNITURE, FIXTURES, AND EQUIPMENT TECHNOLOGY OWNER'S CONTINGENCY OFFSITE UTILITIES	150,000 4,000,000 4,000,000 2,500,000 660,500	

TOTAL

\$133,654,508

\$130,000,000

DIFFERENCE FROM OWNER BUDGET

3,654,508 2.81%

CITY ROAD ALLOWANCE

1,206,961.00

NABH

PROGRAM BUDGET

	Task Name	Duration	Start	Finish
1	1 JCPS MILESTONE DATES	584 days	Fri 10/6/17	Wed 1/1/20
2	1.1 PRECON	181 days	Fri 10/6/17	Fri 6/15/18
3	1.1.1 SCHEMATIC DESIGN	1 day	Fri 10/6/17	Fri 10/6/17
4	1.1.1.1 Second HS and Current HS Presentation to JCPS	1 day	Fri 10/6/17	Fri 10/6/17
5	1.1.2 DESIGN DEVELOPMENT	21 days	Fri 2/16/18	Fri 3/16/18
6	1.1.2.1 Second HS 100% DD's	1 day	Fri 2/16/18	Fri 2/16/18
7	1.1.2.2 Current HS 100% DD's	1 day	Fri 3/16/18	Fri 3/16/18
8	1.1.3 CONSTRUCTION DOCUMENTS	163 days	Wed 11/1/17	Fri 6/15/18
9	1.1.3.1 Second HS Civil Deliverable 1: Site Clearing and Initial Grading	1 day	Wed 11/1/17	Wed 11/1/17
10	1.1.3.2 Second HS Civil Deliverable 2: Final Grading Plan	1 day	Mon 1/15/18	Mon 1/15/18
11	1.1.3.3 Second HS Civil Deliverable 3: Site Utilities	1 day	Thu 3/1/18	Thu 3/1/18
12	1.1.3.4 Second HS Structural 100% CD's	1 day	Fri 3/2/18	Fri 3/2/18
13	1.1.3.5 Second HS Civil Deliverable 4: Site Improvements and Paving	1 day	Tue 5/15/18	Tue 5/15/18
14	1.1.3.6 Second HS 100% Remaining CD's	1 day	Tue 5/15/18	Tue 5/15/18
15	1.1.3.7 Current HS 100% CD's	1 day	Fri 6/15/18	Fri 6/15/18
16	1.1.4 LOCAL BID DAYS	136 days	Tue 11/28/17	Tue 6/5/18
17	1.1.4.1 Second HS Bidding: Site Clearing and Initial Grading	1 day	Tue 11/28/17	Tue 11/28/17
18	1.1.4.2 Second HS Bidding: Earthwork	1 day	Tue 2/6/18	Tue 2/6/18
19	1.1.4.3 Second HS Bidding: Site Utilities	1 day	Fri 3/23/18	Fri 3/23/18
20	1.1.4.4 Second HS Bidding: Structural Packages	1 day	Fri 3/23/18	Fri 3/23/18
21	1.1.4.5 Second HS Bidding: Remaining Packages	1 day	Tue 6/5/18	Tue 6/5/18
22	1.2 CONSTRUCTION	541 days	Wed 12/6/17	Wed 1/1/20
23	1.2.1 Second HS Construction Phase 1	443 days	Wed 12/6/17	Fri 8/16/19
24	1.2.2 Second HS Construction Phase 2	458 days	Mon 4/2/18	Wed 1/1/20
25	1.2.3 Current HS Construction (Contruction and Precon Schedule TBD)	333 days	Wed 5/23/18	Fri 8/30/19



SCHEDULE