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**ROBERT PASS + ASSOCIATES ESTIMATE**


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RP+A Estimate for AHC-CRC (218,000 SF)	\$34,775,000
RP+A Estimate for 2 <sup>nd</sup> & 3 <sup>rd</sup> Floor (50,230 SF)	\$ 2,814,000
RP+A Estimate for ball fields	\$ 2,905,000
<b>Sub-Total</b>	<b>\$40,494,000</b>
Available Funds	\$34,000,000
Overage	\$ 6,494,000
RP+A Estimate for AHC Re-Roof	\$ 961,000

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1. This is an estimate of probable construction cost and is based on information obtained from cost databases, local conditions, and recent bidding information. As an estimate, it is subject to variations due to prevailing economic and labor conditions, and does not take into consideration such factors as managerial efficiency, competitive conditions, automation, restrictive union practices, or other premiums. This estimate does not include additional project costs such as professional services fees, printing, plan review, furnishings, movable equipment, athletic equipment, 5% construction contingency, site survey or subsurface report, commissioning, LEED fees, permitting, etc.
2. Estimate is based upon an April 2013 bid date. Anticipate 4% to 6% construction inflation per year for schedule extension.
3. Savings due to City of Highland Heights Cost Index Modifiers (weighted) are calculated using individual modifiers for each division rather than by using a single modifier for the entire construction cost.
4. Area summary is in gross square feet to outside wall (218,645). Method does not include ½ values for two-story spaces, overhangs, or canopies.
5. Estimate does not take into account contingency for removal of contaminated soil or hazardous materials if encountered.
6. CM Management fee may range from 3% to 7% depending on level of service. Use 3% for GC approach.
7. Assumes Owner budget of \$125,000 for Voice/Data/Security Equipment outside of infrastructure.
8. Costs do include prevailing wage rates and appropriate taxes.
9. Special Inspections (SPIN) per KBC shall be contracted outside of the construction cost in accordance with code, but is included in the Owner's Construction budget.
10. Refer to independent estimate prepared by Robert Pass and Associates for comparative information.
11. Estimate assumes floor to floor heights of 14' to mezzanine, 30' to prime roof.

**NORTHERN KENTUCKY UNIVERSITY  
STUDENT RECREATIONAL FACILITY**

**HIGHLAND HEIGHTS, KENTUCKY**

**SCHEMATIC DESIGN ESTIMATE**

**MAIN SUMMARY**

**GROSS SQ. FT.**            218,645 sf

**DATE:**            May 25, 2012

<b>SUMMARY:</b>	<b>COST/SF \$/SF</b>	<b>TOTAL COST \$</b>
RENOVATION/ADDITIONS TO ALBRIGHT HEALTH CENTER 168,415 SF	206.48	34,775,000
REPLACE EXISTING ROOF	4.40	961,000
MECHANICAL AND ELECTRICAL WORK TO 2ND & 3RD FLOORS 50,230 SF	56.02	2,814,000
NORTH RECREATION FIELDS	13.29	2,905,000
<b>TOTAL ESTIMATED COST</b>	<b>\$189.60</b>	<b>\$41,455,000</b>

**NORTHERN KENTUCKY UNIVERSITY  
STUDENT RECREATIONAL FACILITY**

**HIGHLAND HEIGHTS, KENTUCKY**

**SCHEMATIC DESIGN ESTIMATE**

**RENOVATIONS/ADDITIONS TO ALBRIGHT HEALTH CENTER**

**GROSS SQ. FT.**      168,415 sf

**DATE:**      May 25, 2012

<b>SUMMARY</b>	<b>COST/SF \$/SF</b>	<b>TOTAL COST \$</b>
SUBSTRUCTURE	5.22	878,695
SUPERSTRUCTURE	36.06	6,072,548
EXTERIOR ENCLOSURE	28.38	4,779,556
ROOFING	4.36	735,024
STAIRS AND CONVEYING SYSTEMS	1.24	209,000
INTERIOR WALLS AND DOORS	7.25	1,221,510
WALL FINISHES	0.93	156,900
FLOOR FINISHES	5.46	919,456
CEILING FINISHES	3.51	590,722
SPECIALTIES AND EQUIPMENT	16.73	2,818,281
FIRE PROTECTION	3.48	586,038
PLUMBING	1.84	310,210
HVAC	14.10	2,374,800
ELECTRICAL	19.98	3,364,479
SELECTIVE DEMOLITION	4.22	711,110
SITework	18.99	3,198,810
<b>TOTAL DIRECT COST</b>	<b>\$171.76</b>	<b>\$28,927,137</b>
GENERAL REQUIREMENTS (7%)		2,024,900
CONSTRUCTION MANAGERS FEE (7%)		2,166,643
DESIGN CONTINGENCY (5%)		1,656,321
<b>TOTAL ESTIMATED COST</b>	<b>\$206.48</b>	<b>\$34,775,000</b>

**TOTAL BUILDING AREA**

**FIRST FLOOR**

NEW CONSTRUCTION	37,160 sf
NEW CONSTRUCTION - SWIMMING POOL	10,820 sf
MAJOR RENOVATION	50,180 sf
MINOR RENOVATION	19,590 sf

**SECOND FLOOR**

NEW CONSTRUCTION	38,180 sf
RUNNING TRACK	12,485 sf

**TOTAL GROSS SQUARE FOOT**

**168,415 sf**

**SUBSTRUCTURE**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>02200</b>	<b>EARTHWORK</b>				
02200/010	Dense grade aggregate	2,175	CY	36.00	78,300
02200/020	Excavate to reduce levels	6,580	CY	5.00	32,900
02200/030	Disposal off site	6,580	CY	9.00	59,220
02200/040	Extra for hand excavation	1,795	CY	35.00	62,825
02200/050	Termite control	610	CSF	45.00	27,450
02200/060	Unknown excavation	1	LS	25,000.00	25,000
					<b>285,695</b>
<b>02350</b>	<b>PILES AND CAISSONS</b>				
02350/010	Auger cast piles, 16" diameter, 45' long	3,800	LF	40.00	152,000
02350/020	Mobilization	1	LS	15,000.00	15,000
02350/030	Test pile	1	EA	5,000.00	5,000
					<b>172,000</b>
<b>03200</b>	<b>REINFORCEMENT</b>				
03200/010	Mesh	500	CSF	45.00	22,500
					<b>22,500</b>
<b>03300</b>	<b>CONCRETE WORK</b>				
03300/010	Pile caps	85	EA	1,500.00	127,500
03300/020	Foundations	520	LF	75.00	39,000
03300/030	Slab on grade	615	CY	195.00	119,925
03300/040	Extra for ramps	100	SF	6.00	600
03300/050	Extra for steps	185	LF	35.00	6,475
03300/060	Elevator pit	1	EA	7,500.00	7,500
03300/070	Finish slabs	500	CSF	100.00	50,000
03300/080	Vapor barrier	500	CSF	60.00	30,000
03300/090	Control joints	500	CSF	35.00	17,500
					<b>398,500</b>
	<b>SUBSTRUCTURE TOTAL</b>				<b>\$878,695</b>

**SUPERSTRUCTURE**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>03200</b>	<b>REINFORCEMENT</b>				
03200/010	Mesh	505	CSF	45.00	22,725
					<b>22,725</b>
<b>03300</b>	<b>CONCRETE WORK</b>				
03300/010	Lightweight concrete suspended slab	790	CY	245.00	193,550
03300/020	Finish slabs	505	CSF	100.00	50,500
03300/030	Control joints	505	CSF	35.00	17,675
03300/040	Concrete columns	600	LF	95.00	57,000
					<b>318,725</b>
<b>05100</b>	<b>STRUCTURAL STEEL FRAMING</b>				
05100/010	Structural steel columns	215	TON	3,800.00	817,000
05100/020	Structural steel beams	425	TON	3,500.00	1,487,500
05100/030	Floor and roof joists/truss	275	TON	3,400.00	935,000
05100/040	Chevron frame	60	TON	4,200.00	252,000
05100/050	Miscellaneous steel framing	190	TON	4,500.00	855,000
05100/060	Base plates	85	EA	35.00	2,975
05100/070	Anchor bolts	340	EA	25.00	8,500
05100/080	Metal floor deck	50,665	SF	2.50	126,663
05100/090	Metal roof deck	53,135	SF	2.00	106,270
05100/100	Extra for acoustic roof deck	15,000	SF	5.00	75,000
05100/110	Structural work to existing structure	50,180	SF	8.00	401,440
					<b>5,067,348</b>
<b>07800</b>	<b>FIREPROOFING</b>				
07800/010	Sprayed fireproofing	640	TON	500.00	320,000
07800/020	Extra for intumescent fireproofing	200	TON	1,250.00	250,000
07800/030	Extra for intumescent fireproofing, finished	50	TON	1,875.00	93,750
					<b>663,750</b>
	<b>SUPERSTRUCTURE TOTAL</b>				<b>\$6,072,548</b>

**EXTERIOR ENCLOSURE**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>RATE</b>	<b>TOTAL</b>
<b>03300</b>	<b>CONCRETE WORK</b>				
03300/010	Concrete wall with color additive, including foundation and finishing	9,020	SF	35.00	315,700
					<b>315,700</b>
<b>05300</b>	<b>METAL FRAMING</b>				
05300/010	6" Metal studs	1,680	SF	3.55	5,964
					<b>5,964</b>
<b>07200</b>	<b>INSULATION</b>				
07200/010	Batt insulation	1,680	SF	1.22	2,050
07200/020	Vapor barrier	1,680	SF	0.45	756
					<b>2,806</b>
<b>07500</b>	<b>METAL WALL PANELS</b>				
07500/010	Insulated metal wall panels	1,680	SF	21.00	35,280
07500/020	Interior wall liner	800	SF	12.75	10,200
07500/030	Metal soffit panels, custom color	6,185	SF	22.00	136,070
					<b>181,550</b>
<b>07500</b>	<b>CLERESTOREY SYSTEM</b>				
07500/010	Curtain wall system	2,815	SF	90.00	253,350
07500/020	Metal wall panels on framing system	2,700	SF	35.00	94,500
07500/030	Roofing system	2,700	SF	25.00	67,500
					<b>415,350</b>
<b>08100</b>	<b>METAL DOORS AND FRAMES</b>				
08100/010	H.M. door frame, single	5	EA	135.00	675
08100/020	H.M. door frame, double	5	EA	165.00	825
08100/030	Hollow metal door	15	EA	365.00	5,475
					<b>6,975</b>
<b>08300</b>	<b>ENTRANCES DOORS</b>				
08300/010	Aluminum entrance doors, double	9	EA	5,500.00	49,500
					<b>49,500</b>
<b>08700</b>	<b>HARDWARE</b>				
08700/010	Hardware, Single	5	EA	550.00	2,750
08700/020	Hardware, Double	5	EA	950.00	4,750
08700/030	Panic hardware	9	EA	550.00	4,950
08700/040	Extra for flush hardware	2	EA	350.00	700
					<b>13,150</b>
<b>08800</b>	<b>CURTAIN WALL</b>				
08800/010	Curtain wall glazing system, first floor	5,940	SF	140.00	831,600
08800/020	Curtain wall glazing system, second floor	21,000	SF	140.00	2,940,000
					<b>3,771,600</b>
<b>09200</b>	<b>PLASTER &amp; GYPSUM</b>				
09200/010	Drywall	1,680	SF	1.25	2,100
09200/020	Sheathing	1,680	SF	1.45	2,436
					<b>4,536</b>
<b>09900</b>	<b>PAINTING</b>				
09900/010	Paint doors and frames	15	EA	95.00	1,425
					<b>1,425</b>
<b>10520</b>	<b>LOUVERS</b>				
10520/010	Louvers	200	SF	55.00	11,000
					<b>11,000</b>
	<b>EXTERIOR ENCLOSURE TOTAL</b>				<b>\$4,779,556</b>

**ROOFING**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>06100</b>	<b>ROUGH CARPENTRY</b>				
06100/010	Blocking	168,415	SF	0.50	84,208
					<b>84,208</b>
<b>07200</b>	<b>INSULATION</b>				
07200/010	Tapered roof insulation	53,135	SF	1.45	77,046
					<b>77,046</b>
<b>07500</b>	<b>ROOFING</b>				
07500/010	Modified bitumen membrane roofing	53,135	SF	6.55	348,034
					<b>348,034</b>
<b>07600</b>	<b>FLASHING &amp; SHEET METAL</b>				
07600/010	Coping, flashing, etc	1,965	LF	45.00	88,425
07600/020	Roof hatch	2	EA	5,500.00	11,000
					<b>99,425</b>
<b>07900</b>	<b>CAULKING &amp; SEALANTS</b>				
07900/010	Caulking and sealants	168,415	SF	0.75	126,311
					<b>126,311</b>
	<b>ROOFING TOTAL</b>				<b>\$735,024</b>

**STAIRS AND CONVEYING SYSTEMS**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>05300</b>	<b>METAL STAIRS</b>				
05300/010	Metal pan stair including railing	8	FLT	5,500.00	44,000
05300/020	Monumental stair, including railing	2	FLT	35,000.00	70,000
					<b>114,000</b>
<b>14200</b>	<b>ELEVATORS</b>				
14200/010	Passenger elevator, 3 stop with front & rear opening	1	EA	95,000.00	95,000
					<b>95,000</b>
	<b>STAIRS AND CONVEYING SYSTEMS TOTAL</b>				<b>\$209,000</b>



**INTERIOR WALLS AND DOORS**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>RATE</b>	<b>TOTAL</b>
<b>04200</b>	<b>UNIT MASONRY</b>				
04200/010	8" CMU	27,240	SF	11.00	299,640
					<b>299,640</b>
<b>08100</b>	<b>METAL DOORS AND FRAMES</b>				
08100/010	H.M. door frame, single	46	EA	135.00	6,210
08100/020	H.M. door frame, double	20	EA	165.00	3,300
08100/030	H.M. door	15	EA	265.00	3,975
08100/040	Interior aluminum entrance doors, single	6	EA	3,300.00	19,800
					<b>33,285</b>
<b>08200</b>	<b>WOOD DOORS</b>				
08100/010	Solid core wood doors	71	EA	255.00	18,105
08100/020	Extra for glass panels	8	EA	95.00	760
08100/030	Extra for full glass door	5	EA	155.00	775
08100/040	All glass door	4	EA	550.00	2,200
					<b>21,840</b>
<b>08500</b>	<b>WINDOWS</b>				
08500/010	Interior glass partition to Social Areas	1,640	SF	40.00	65,600
08500/020	Interior glazing to Fitness	7,400	SF	40.00	296,000
08500/030	Interior glass partitions to Group Fitness	1,100	SF	40.00	44,000
					<b>405,600</b>
<b>08700</b>	<b>HARDWARE</b>				
08700/010	Hardware, Single	46	EA	550.00	25,300
08700/020	Hardware, Double	20	EA	950.00	19,000
08700/030	Extra for panic hardware	15	EA	550.00	8,250
					<b>52,550</b>
<b>08800</b>	<b>CURTAIN WALL</b>				
08800/010	Interior curtain wall system	2,880	SF	90.00	259,200
					<b>259,200</b>
<b>08800</b>	<b>GLAZING</b>				
08800/010	Full height mirrors	1,800	SF	16.00	28,800
08800/020	Bathroom mirrors	300	SF	16.00	4,800
					<b>33,600</b>
<b>09200</b>	<b>PLASTER &amp; GYPSUM</b>				
09200/010	Metal stud with drywall one side	7,500	SF	5.00	37,500
09200/020	Metal stud partitions	11,220	SF	6.25	70,125
					<b>107,625</b>
<b>09900</b>	<b>PAINTING</b>				
09900/010	Paint doors and frames	86	EA	95.00	8,170
					<b>8,170</b>
	<b>INTERIOR WALLS AND DOORS TOTAL</b>				<b>\$1,221,510</b>

**WALL FINISHES**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>09300</b>	<b>TILE</b>				
09300/010	Ceramic wall tile	7,500	SF	6.00	45,000
					<b>45,000</b>
<b>09900</b>	<b>PAINTING</b>				
09900/010	Paint walls	96,000	SF	1.00	96,000
09900/020	Extra for epoxy paint walls	5,300	SF	3.00	15,900
					<b>111,900</b>
	<b>WALL FINISHES TOTAL</b>				<b>\$156,900</b>

**FLOOR FINISHES**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>09300</b>	<b>TILE</b>				
09300/010	Ceramic floor tile	3,955	SF	7.00	27,685
09300/020	Ceramic tile base	1,250	LF	6.50	8,125
					<b>35,810</b>
<b>09550</b>	<b>WOOD</b>				
09550/010	Wood sports flooring to Old Gym	26,815	SF	9.50	254,743
09550/020	Wood sports flooring to New Gym	5,150	SF	9.50	48,925
09550/030	Wood sports flooring to Racquetball Court	1,850	SF	9.50	17,575
					<b>321,243</b>
<b>09650</b>	<b>RESILIENT FLOORING</b>				
09650/010	Rubber floor tile (Fitness)	12,740	SF	11.00	140,140
09650/020	Rubber floor tile (Group Fitness)	7,125	SF	11.00	78,375
09650/030	Rubber floor tile (Athletic Training Lab)	1,330	SF	11.00	14,630
09650/040	Polyurethane floor system (MAC Gym)	9,360	SF	8.30	77,688
09650/050	Rubber sheet floor (Track)	12,485	SF	8.10	101,129
09650/060	Rubber base	6,140	LF	1.55	9,517
					<b>421,479</b>
<b>09680</b>	<b>CARPET</b>				
09680/010	Carpet tile	590	SY	45.00	26,550
					<b>26,550</b>
<b>09900</b>	<b>PAINTING</b>				
09900/010	Seal concrete	3,900	SF	0.50	1,950
09900/020	Stained concrete	37,475	SF	3.00	112,425
					<b>114,375</b>
	<b>FLOOR FINISHES TOTAL</b>				<b>\$919,456</b>

**CEILING FINISHES**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>09200</b>	<b>PLASTER &amp; GYPSUM</b>				
09200/010	Drywall bulkhead	15,000	SF	5.35	80,250
09200/020	Drywall ceiling	5,500	SF	6.05	33,275
					<b>113,525</b>
<b>09500</b>	<b>ACOUSTICAL TREATMENT</b>				
09500/010	2 x 2 Acoustic ceiling	53,780	SF	4.50	242,010
09500/020	Metal pan ceilings	8,400	SF	15.00	126,000
					<b>368,010</b>
<b>09900</b>	<b>PAINTING</b>				
09900/010	Paint ceilings, soffits and bulkheads	20,500	SF	1.17	23,985
09900/020	Paint exposed structure	81,145	SF	1.05	85,202
					<b>109,187</b>
	<b>CEILING FINISHES TOTAL</b>				<b>\$590,722</b>

**SPECIALTIES AND EQUIPMENT**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>05500</b>	<b>METAL FABRICATIONS</b>				
05500/010	Pit ladders	1	EA	550.00	550
05550/020	Interior glass railing	410	LF	350.00	143,500
05550/030	Running track railing	575	LF	300.00	172,500
05550/040	Exercise rail	50	LF	65.00	3,250
05550/050	Roof access ladders	2	EA	1,550.00	3,100
					<b>322,900</b>
<b>06400</b>	<b>ARCHITECTURAL WOODWORK</b>				
06400/010	Check In desk	80	LF	550.00	44,000
06400/020	Base cabinet	80	LF	135.00	10,800
06400/030	Wall cabinet	15	LF	105.00	1,575
06400/040	Reception desk	30	LF	550.00	16,500
06400/050	Mailboxes	1	EA	1,500.00	1,500
06400/060	Lounge bench	30	LF	55.00	1,650
06400/070	Bathroom vanity	55	LF	130.00	7,150
06400/080	Bathroom counter	100	LF	65.00	6,500
06400/090	Bench	500	LF	35.00	17,500
06400/100	Fitness cubbies	50	LF	250.00	12,500
					<b>119,675</b>
<b>10100</b>	<b>MARKER BOARDS</b>				
10100/010	Markerboards	15	EA	455.00	6,825
					<b>6,825</b>
<b>10140</b>	<b>SIGNAGE</b>				
10140/010	Interior signs	168,415	SF	0.50	84,208
					<b>84,208</b>

**SPECIALTIES AND EQUIPMENT**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>10150</b>	<b>COMPARTMENTS AND CUBICLES</b>				
10150/010	Toilet partition	20	EA	1,100.00	22,000
10150/020	Urinal screens	5	EA	300.00	1,500
					<b>23,500</b>
<b>10260</b>	<b>WALL AND DOOR PROTECTION</b>				
10260/010	Wall and corner guards	30	EA	55.00	1,650
					<b>1,650</b>
<b>10500</b>	<b>LOCKERS</b>				
10500/010	Lockers	400	EA	250.00	100,000
					<b>100,000</b>
<b>10520</b>	<b>FIRE PROTECTION SPECIALTIES</b>				
10520/010	Fire extinguishers & cabinets	8	EA	450.00	3,600
					<b>3,600</b>
<b>10800</b>	<b>TOILET &amp; BATH ACCESSORIES</b>				
10800/010	Toilet accessories	24	EA	600.00	14,400
10800/020	Shower accessories	12	EA	400.00	4,800
10800/030	Other accessories	10	EA	200.00	2,000
					<b>21,200</b>
<b>11110</b>	<b>LAUNDRY EQUIPMENT</b>				
11100/010	Washer	1	EA	9,260.00	9,260
11100/020	Dryer	1	EA	2,993.00	2,993
					<b>12,253</b>
<b>11480</b>	<b>BASKETBALL COURT</b>				
11480/010	Basketball Goals, Ceiling Mounted	10	EA	5,500.00	55,000
11480/020	Wall Pads	2,080	SF	7.87	16,370
11480/030	Volleyball inserts	8	EA	1,500.00	12,000
11480/040	Interior glass partition to Gym	900	SF	52.50	47,250
11480/050	Divider curtains	6,400	SF	22.00	140,800
					<b>271,420</b>
<b>11480</b>	<b>RACQUETBALL COURT</b>				
11480/010	Racquetball courts, complete	2	EA	36,000.00	72,000
11480/020	Interior glass partition to Racquetball court	1,300	SF	40.00	52,000
					<b>124,000</b>
<b>11480</b>	<b>MAC</b>				
11480/010	Interior glass partition to MAC	1,040	SF	52.50	54,600
11480/020	Dasher board system	340	LF	45.00	15,300
					<b>69,900</b>
<b>11413</b>	<b>TURNSTILES</b>				
11413/010	Turnstiles and gates	4	EA	3,500.00	14,000
					<b>14,000</b>
<b>11310</b>	<b>RESIDENTIAL APPLIANCES</b>				
11310/010	Microwave oven	1	EA	550.00	550
11310/020	Refrigerator/freezer	1	EA	1,100.00	1,100
11310/030	Dishwasher	1	EA	500.00	500
					<b>2,150</b>
<b>11400</b>	<b>FOODSERVICE EQUIPMENT</b>				
11400/010	Food service equipment				<b>NIC</b>

**SPECIALTIES AND EQUIPMENT**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>11664</b>	<b>SCOREBOARDS</b>				
11664/010	Scoreboards				NIC
<b>12120</b>	<b>BLINDS</b>				
12210/010	Window shades	5,500	SF	12.00	66,000
					<b>66,000</b>
<b>13150</b>	<b>SAUNA</b>				
13150/010	Sauna	1	EA	50,000.00	50,000
					<b>50,000</b>
<b>13520</b>	<b>SWIMMING POOLS</b>				
13520/010	Swimming pool, complete	1	LS	1,435,000.00	1,435,000
13520/020	Spa	1	LS	90,000.00	90,000
					<b>1,525,000</b>
	<b>SPECIALTIES AND EQUIPMENT TOTAL</b>				<b>\$2,818,281</b>

**MECHANICAL**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>15300</b>	<b>FIRE PROTECTION</b>				
15300/010	Sprinkle new building	168,415	SF	2.50	421,038
15300/020	Fire pump	1	EA	165,000.00	165,000
					<b>586,038</b>
	<b>FIRE PROTECTION TOTAL</b>				<b>\$586,038</b>

**MECHANICAL**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>PLUMBING</b>					
<b>15410</b>	<b>DOMESTIC WATER PIPING</b>				
15410/010	Pipe & fittings	1	LS	98,000.00	98,000
					<b>98,000</b>
<b>15430</b>	<b>SANITARY &amp; VENT PIPING</b>				
15430/010	Pipe & fittings	1	LS	76,000.00	76,000
					<b>76,000</b>
<b>15437</b>	<b>STORM PIPING</b>				
15437/010	Pipe & fittings	1	LS	81,500.00	81,500
					<b>81,500</b>
<b>15440</b>	<b>PLUMBING FIXTURES &amp; TRIM</b>				
15440/010	Water Closet	17	EA	790.00	13,430
15440/020	Lavatories Counter	20	EA	407.00	8,140
15440/030	Urinals	6	EA	890.00	5,340
15440/040	Water coolers	2	EA	1,570.00	3,140
15440/050	Shower	23	EA	420.00	9,660
15440/060	Water heaters	10	EA	1,500.00	15,000
					<b>54,710</b>
	<b>PLUMBING TOTAL</b>				<b>\$310,210</b>

**MECHANICAL**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
	<b>HVAC</b>				
<b>15400</b>	<b>GEOTHERMAL</b>				
15400/010	Wells, pvc casing, etc 400' deep	54,000	LF	18.00	972,000
15400/020	Vault	1	EA	3,500.00	3,500
					<b>975,500</b>
<b>15500</b>	<b>PIPING</b>				
15500/010	Heat pump piping	1	LS	177,000.00	177,000
					<b>177,000</b>
<b>15550</b>	<b>EQUIPMENT</b>				
15550/010	AHU #1 34,000 CFM	1	EA	158,000.00	158,000
15550/020	AHU #3 9,000 CFM	1	EA	40,500.00	40,500
15550/030	AHU #4 12,000 CFM	1	EA	54,000.00	54,000
15550/040	AHU #6 10,000 CFM	1	EA	45,000.00	45,000
15550/050	OA #1 7,000 CFM	1	EA	45,500.00	45,500
15550/060	OA #3 15,000 CFM	1	EA	97,500.00	97,500
15550/070	Circulating pumps	1	EA	20,000.00	20,000
15550/080	Condensate pumps	1	EA	6,500.00	6,500
15550/090	Exhaust fans	1	EA	6,500.00	6,500
15550/100	Heat exchangers	1	EA	22,000.00	22,000
15550/110	Heat pumps	12	EA	9,100.00	109,200
					<b>604,700</b>
<b>15570</b>	<b>AIR DISTRIBUTION</b>				
15570/010	Galvanized & Flex Duct	1	LS	371,000.00	371,000
15570/020	Grilles & diffusers	45	EA	280.00	12,600
					<b>383,600</b>
<b>15600</b>	<b>AUTOMATIC CONTROLS</b>				
15600/010	Controls and Energy Management	1	LS	234,000.00	234,000
					<b>234,000</b>
	<b>HVAC TOTAL</b>				<b>\$2,374,800</b>
	<b>TOTAL MECHANICAL</b>				<b>\$3,271,048</b>

**ELECTRICAL**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>16010</b>	<b>POWER &amp; DISTRIBUTION</b>				
16010/010	Switchboard 4000 A	1	EA	61,000.00	61,000
16010/020	Panel 2500 A	1	EA	39,000.00	39,000
16010/030	Panel 1200 A	1	EA	31,000.00	31,000
16010/040	Floor panels	1	LS	15,000.00	15,000
16010/050	Emergency generator 300KW	1	EA	59,000.00	59,000
16010/060	Transformers	1	LS	18,000.00	18,000
16010/070	Mechanical equipment	1	LS	12,000.00	12,000
16010/080	Feeders	1	LS	21,000.00	21,000
					<b>256,000</b>
<b>16500</b>	<b>LIGHTING AND SMALL POWER</b>				
16500/010	Lighting	86,160	SF	7.00	603,120
16500/020	Replace lighting - major renovation areas	62,665	SF	5.00	313,325
16500/030	Building lighting	86,160	SF	1.00	86,160
16500/040	Conduit & wiring	148,825	SF	1.00	148,825
16500/050	Receptacles, switches, etc	148,825	SF	2.00	297,650
16500/060	Conduit & wiring	148,825	SF	1.00	148,825
					<b>1,597,905</b>
<b>16700</b>	<b>SYSTEMS</b>				
16700/010	Fire Alarm	148,825	SF	2.50	372,063
16700/020	Telecommunications	148,825	SF	2.20	327,415
16700/030	Digital surveillance	148,825	SF	2.50	372,063
16700/040	Access Control	148,825	SF	1.20	178,590
16700/050	Intrusion	148,825	SF	1.00	148,825
16700/060	CATV/Video	148,825	SF	0.75	111,619
					<b>1,510,574</b>
	<b>ELECTRICAL TOTAL</b>				<b>\$3,364,479</b>

**SELECTIVE DEMOLITION**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>02070</b>	<b>SELECTIVE DEMOLITION</b>				
02070/010	Remove interior stairs	5	FLT	2,750.00	13,750
02070/020	Remove concrete wall	15,960	SF	9.00	143,640
02070/030	Remove exterior concrete stairs	8	EA	3,250.00	26,000
02070/040	Remove second floor, complete	1,760	SF	15.00	26,400
02230/050	Selective demolition	62,665	SF	8.00	501,320
					<b>711,110</b>
	<b>SELECTIVE DEMOLITION TOTAL</b>				<b>\$711,110</b>



**SITWORK**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>02230</b>	<b>SITE PREPARATION</b>				
02230/010	Clear and grate site	84,000	SY	4.00	336,000
02230/020	Excavate to reduce levels	1,500	CY	6.00	9,000
02230/030	Disposal off site	1,500	CY	11.00	16,500
					<b>361,500</b>
<b>02600</b>	<b>SITE UTILITIES</b>				
02600/010	Site utilities	1	LS	100,000.00	100,000
02600/020	Site drainage	1	LS	75,000.00	75,000
02600/030	Site electrical and lighting	1	LS	175,000.00	175,000
					<b>350,000</b>
<b>02741</b>	<b>PAVING</b>				
02741/010	Heavy duty asphalt paving	6,590	SY	24.00	158,160
02741/020	Concrete paving, 5"	113,505	SF	9.00	1,021,545
02741/030	Pavers on concrete base	7,895	SF	14.00	110,530
02741/040	Resilient surface paving	7,465	SF	12.00	89,580
02741/050	Concrete curb and gutter	775	LF	11.00	8,525
02741/060	Colored concrete paving bands	1,090	LF	26.00	28,340
					<b>1,416,680</b>
<b>02800</b>	<b>SITE IMPROVEMENTS</b>				
02800/010	Flagpole	1	EA	2,500.00	2,500
02800/020	Bike racks	15	EA	350.00	5,250
02800/030	Concrete seat wall with concrete pilasters	305	LF	215.00	65,575
02800/040	Relocate bus stop	1	EA	1,800.00	1,800
02800/050	Concrete retaining wall	6,120	SF	35.00	214,200
02800/050	Exterior concrete steps	880	LF	55.00	48,400
02800/050	Segmental retaining wall	170	LF	155.00	26,350
02800/060	Volleyball court resilient surface	12,055	SF	12.00	144,660
02800/070	Bench	14	EA	2,300.00	32,200
02800/080	Table and chairs	17	EA	3,100.00	52,700
02800/090	Boulder climbing feature	1	LS	120,000.00	120,000
02800/100	Trash receptacles	4	EA	1,100.00	4,400
					<b>718,035</b>
<b>02810</b>	<b>FENCES AND GATES</b>				
02810/010	Gates	2	EA	2,900.00	5,800
02810/020	Ornamental metal fence	735	LF	115.00	84,525
					<b>90,325</b>
<b>02930</b>	<b>LANDSCAPING</b>				
02930/010	Grasses/planting areas	7,500	SY	15.00	112,500
02930/020	Seeding	26,510	SY	2.00	53,020
02930/020	Lawn	8,750	SY	5.00	43,750
02930/030	Trees	47	EA	750.00	35,250
02930/040	Small trees/shrubs	71	EA	250.00	17,750
					<b>262,270</b>
	<b>SITWORK TOTAL</b>				<b>\$3,198,810</b>

**NORTHERN KENTUCKY UNIVERSITY  
STUDENT RECREATIONAL FACILITY**

**HIGHLAND HEIGHTS, KENTUCKY**

**SCHEMATIC DESIGN ESTIMATE**

**MEP WORK TO 2ND & 3RD FLOORS**

**GROSS SQ. FT.**      50,230 sf

**DATE:**      May 25, 2012

<b>SUMMARY:</b>	<b>COST/SF \$/SF</b>	<b>TOTAL COST \$</b>
FLOOR FINISHES	1.19	60,000
CEILING FINISHES	1.19	60,000
FIRE PROTECTION	1.38	69,480
PLUMBING	1.70	85,266
HVAC	19.84	996,450
ELECTRICAL	19.29	968,810
SELECTIVE DEMOLITION	2.00	100,460
<b>TOTAL DIRECT COST</b>	<b>\$46.59</b>	<b>\$2,340,466</b>
GENERAL REQUIREMENTS (7%)		163,833
CONSTRUCTION MANAGERS FEE (7%)		175,301
DESIGN CONTINGENCY (5%)		134,401
<b>TOTAL ESTIMATED COST</b>	<b>\$56.02</b>	<b>\$2,814,000</b>

**WALL FINISHES**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>09900</b> 09900/010	<b>PAINTING</b> Paint walls in existing building	27,000	SF	1.00	27,000
					<b>27,000</b>
	<b>WALL FINISHES TOTAL</b>				<b>\$27,000</b>

**FLOOR FINISHES**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>09650</b> 09650/010	<b>RESILIENT FLOORING</b> Replace flooring for MEP work	12,000	SF	5.00	60,000
					<b>60,000</b>
	<b>FLOOR FINISHES TOTAL</b>				<b>\$60,000</b>

**CEILING FINISHES**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>09900</b> 09900/010	<b>RENOVATION</b> Replace ceilings for MEP work	12,000	SF	5.00	60,000
					<b>60,000</b>
	<b>CEILING FINISHES TOTAL</b>				<b>\$60,000</b>

**MECHANICAL**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>15300</b> 15300/010	<b>FIRE PROTECTION</b> Relocate heads on 2nd & 3rd Floor	39,480	SF	1.00	39,480
15300/020	New piping & heads in 2nd & 3rd Floor corridors	12,000	SF	2.50	30,000
					<b>69,480</b>
	<b>FIRE PROTECTION TOTAL</b>				<b>\$69,480</b>

**MECHANICAL**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
	<b>PLUMBING</b>				
<b>15440</b>	<b>REPLACE PLUMBING FIXTURES</b>				
15440/010	Water Closet	30	EA	890.00	26,700
15440/020	Lavatories Wall	32	EA	783.00	25,056
15440/030	Urinals	15	EA	1,090.00	16,350
15440/040	Shower	33	EA	520.00	17,160
					<b>85,266</b>
	<b>PLUMBING TOTAL</b>				<b>\$85,266</b>

**MECHANICAL**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
	<b>HVAC</b>				
<b>15500</b>	<b>PIPING</b>				
15500/010	Heat pump piping	1	LS	140,000.00	140,000
					<b>140,000</b>
<b>15550</b>	<b>EQUIPMENT</b>				
15550/010	AHU #2 32,000 CFM	1	EA	144,000.00	144,000
15550/020	AHU #5 20,000 CFM	1	EA	90,000.00	90,000
15550/030	Renue air unit 4,000CFM	1	EA	5,100.00	5,100
15550/040	OA #2 6,000 CFM	1	EA	39,000.00	39,000
15550/050	OA #4 10,000 CFM	1	EA	65,000.00	65,000
					<b>343,100</b>
<b>15570</b>	<b>AIR DISTRIBUTION</b>				
15570/010	Galvanized & Flex Duct - 2nd & 3rd Floor	1	LS	298,350.00	298,350
15570/020	Grilles & diffusers - 2nd & 3rd Floor	1	LS	9,000.00	9,000
15570/030	VAV boxes - 2nd & 3rd Floor	1	LS	40,000.00	40,000
					<b>347,350</b>
<b>15600</b>	<b>AUTOMATIC CONTROLS</b>				
15600/010	Controls and Energy Management - 2nd & 3rd Floor	1	LS	166,000.00	166,000
					<b>166,000</b>
	<b>HVAC TOTAL</b>				<b>\$996,450</b>
	<b>TOTAL MECHANICAL</b>				<b>\$1,151,196</b>

**ELECTRICAL**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>16010</b>	<b>POWER &amp; DISTRIBUTION</b>				
16010/010	Panels to 2nd & 3rd Floor	1	LS	24,900.00	24,900
16010/020	Mechanical equipment to 2nd & 3rd Floor	1	LS	30,000.00	30,000
16010/030	Feeders to 2nd & 3rd Floor	1	LS	60,000.00	60,000
					<b>114,900</b>
<b>16500</b>	<b>LIGHTING AND SMALL POWER</b>				
16500/010	Replace lighting - 2nd & 3rd Floors	50,230	SF	5.00	251,150
16500/020	Replace conduit - 2nd & 3rd Floors	50,230	SF	2.50	125,575
16500/030	Replace switches & receptacles - 2nd & 3rd Floors	50,230	SF	3.00	150,690
16500/040	Replace conduit & wiring - 2nd & 3rd Floors	50,230	SF	2.50	125,575
16500/050	Grounding	50,230	SF	1.50	75,345
					<b>728,335</b>
<b>16700</b>	<b>SYSTEMS</b>				
16700/010	Fire Alarm	50,230	SF	2.50	125,575
					<b>125,575</b>
	<b>ELECTRICAL TOTAL</b>				<b>\$968,810</b>

**SELECTIVE DEMOLITION**

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<b>02070</b>	<b>SELECTIVE DEMOLITION</b>				
02070/010	Selective demolition	50,230	SF	2.00	100,460
					<b>100,460</b>
	<b>SELECTIVE DEMOLITION TOTAL</b>				<b>\$100,460</b>

**NORTHERN KENTUCKY UNIVERSITY  
STUDENT RECREATIONAL FACILITY**

**HIGHLAND HEIGHTS, KENTUCKY**

**SCHEMATIC DESIGN ESTIMATE**

**REPLACE EXISTING ROOF**

**GROSS SQ. FT.**            78,015 sf

**DATE:**    May 25, 2012

<b>SUMMARY</b>	<b>COST/SF \$/SF</b>	<b>TOTAL COST \$</b>
ROOFING	10.25	799,654
<b>TOTAL DIRECT COST</b>	<b>\$10.25</b>	<b>\$799,654</b>
GENERAL REQUIREMENTS (7%)		55,976
CONSTRUCTION MANAGERS FEE (7%)		59,894
DESIGN CONTINGENCY (5%)		45,476
<b>TOTAL ESTIMATED COST</b>	<b>\$12.32</b>	<b>\$961,000</b>

**ROOFING**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>RATE</b>	<b>TOTAL</b>
<b>07500</b>	<b>ROOFING</b>				
07500/010	Replace existing roof, including flashing and coping	78,015	SF	10.25	799,654
					<b>799,654</b>
	<b>ROOFING TOTAL</b>				<b>\$799,654</b>

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**SCHEMATIC DESIGN ESTIMATE**

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**ROOFING**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>RATE</b>	<b>TOTAL</b>
<b>07500</b>	<b>ROOFING</b>				
07500/010	Replace existing roof, including flashing and coping	78,015	SF	10.25	799,654
					<b>799,654</b>
	<b>ROOFING TOTAL</b>				<b>\$799,654</b>