



# **Hopkins County Board of Education Cooling Tower Upgrade**

**Jesse Stuart ES and Southside ES  
Hopkins County Board of Education  
320 S. Seminary St.  
Madisonville, KY 42431**

## **Kentucky Department of Education Request for Proposals**

**November 20, 2018**

Architect / Engineer:

**SKY Engineering  
1830 Destiny Lane  
Suite 113  
Bowling Green, KY 42104**



November 20, 2018  
Hopkins County Board of Education  
320 S, Seminary St.  
Madisonville, KY 42431

RE: Cooling Tower Upgrade – Multiple Location

**SKY Engineering Team:**

Dear Hopkins County Board of Education:

We are thankful for the opportunity to work with Hopkins County Board of Education for the upcoming HVAC upgrade at Jesse Stuart Elementary School and Southside Elementary School. We are very delighted to provide engineering services. Our past and current work with the Kentucky Department of Education provides an excellent testament to our qualification and competence for school mechanical system design. Our dedicated team promises to be involved from the initial design meeting until the completion of the project, while maintaining the desired budget, needs, and efficiencies of the client.

Enclosed, you will find our Firm Identification, Company Resume, and one (1) copy of our proposal.

SKY Engineering offers exceptional quality and personal service and is the right choice for Hopkins County Board of Education. We look forward to working with you on this project.

Sincerely,

Nami Nahid, PE

Partner | Sr Mechanical Engineer



## Hopkins County Projected time-line:

HCPS Board BG-1 / Engineer selection approval:	Dec. 2018
Proceed with Design:	Dec. 2018
Contract completion between Engineer / HCBE:	Jan Board Mtg
Design Development drawings / BG-2, BG-3 Approval:	Jan Board Mtg
Const. Document Completion Approval	Feb 2019 Board Mtg
Projected KDE Approval to proceed w/ bidding:	Mid Feb 2019
Advertisement and Pre-bid Meeting:	Early March 2019
Projected Bid Date:	Mid March, 2019
Board Approval of Revised BG-1:	March / April Board Mtg
Contracts in place with KDE approval to proceed:	March / April Board Mtg
Construction	May – Aug 2019
Construction completion Punch / training	Aug. 2019
Project Close out	Sept. 2019



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## COMPANY PROFILE

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**NAME OF COMPANY:** SKY Engineering

**PHYSICAL ADDRESS:** 1830 Destiny Lane, Suite 113  
Bowling Green, KY 42104

**TELEPHONE:** (270) 599-0182

**PRINCIPAL-IN-CHARGE:** Nami Nahid, PE  
[Nami@SKYengineeringMEP.com](mailto:Nami@SKYengineeringMEP.com)  
Professional Engineer  
License Number 21988  
(270) 784-0719

**DESIGNATED CONTACT:** Chase Embry  
[Chase@SKYengineeringMEP.com](mailto:Chase@SKYengineeringMEP.com)  
Engineering Project Manager  
(270) 784-0720

**TYPE OF ORGANIZATION:** Professional Mechanical, Electrical, and  
Plumbing Engineering Design Firm  
Partnership- Limited Liability Corporation  
Previously Stewart Richey Engineering  
Established 2012



SKY Engineering is one of Bowling Green's leading MEP design engineering firms, with a hands-on approach, that focuses on designing complete heating and cooling systems, intricate plumbing designs, along with lighting and power distributions systems, etc. that meets our clients' needs and budget. Additional capabilities also include, small interior renovations and construction management oversight on projects ranging from vanilla box office buildings to the complexity of process manufacturing facilities.

SKY's motto is to "Act Justly – Love Mercy – Walk Humbly". We take that approach in our life and our work. Our promise is to be involved from the initial kick-off design meeting with owners to the end of the project, all while maintaining the desired budget, needs, and efficiencies required for the building. SKY Engineering's services include:

- Mechanical Engineering
- Electrical Engineering
- Plumbing Engineering
- Fire Protection
- Construction Administration
- Facility Assessments
- LEED Design and Administration
- Architectural Lighting Design



## EDUCATION

Bachelor of Mechanical Engineering - 1993

Georgia Institute of Technology

## LICENSES

PE License in Mechanical Engineering

States: KY, TN, MT, WA, IN, TX, DC, WY, ID, KS, LA, CA, CO, VA, UT, MN, IL

LEED AP, Licensed in Leadership of Energy Efficient Design Accredited Professional

## SOFTWARE

AutoCAD, Trace, Word, Excel, Excel Programming

## Nami Nahid, PE

Nami has over 24 years of experience in building construction design for commercial, industrial, and institutional facilities. He immediately made a direct impact by opening the doors to additional mechanical, plumbing, and electrical design opportunities in Bowling Green in 2012. He is now the Principal-In-Charge at SKY Engineering and the Sr. Mechanical Engineer.

## SKY ENGINEERING

### Senior Partner / Sr. Mechanical Engineer

Responsible and involved in all phases of the firm's continual growth and operation with relationship development in owners, architects, consultants, etc.

Responsible to provides complete management of project timelines and related design activity communication between the design team and the client/customer, accurately & timely

Actively engages with other members of the company to continuously strive to improve processes, create efficiencies and reduce costs

Directly involved in the project coordination from initial facility surveying and programming through contract administration and close-out.

## RELEVANT EXPERIENCE

Daviess County HS Phase 1 and Phase 2 – Owensboro, KY

Burns Middle School HVAC Upgrade – Owensboro, KY

College View Middle School HVAC Upgrade – Owensboro, KY



## EDUCATION

Bachelor of Science-  
Industrial Science - 2007

Minor in Architectural &  
Manufacturing Sciences

Western Kentucky  
University

## AFFILIATIONS

American Design Drafting  
Association

American Society of  
Heating, Refrigeration, and  
Air-Conditioning

American Society of  
Mechanical Engineers

## SOFTWARE

AutoCAD 2018, Trace,  
Revit 2018, CAPS  
Engineering, Bluebeam

## Chase Embry

Chase has over 10 years of experience in new construction, renovation, and remodeling. He joined with Nami to create the Stewart Richey Engineering Division in 2012, bringing with his experience in design with AutoCAD and Revit modeling. He has been a project manager throughout various projects under Nami's review and serves as his primary point of contact for many of his projects. Chase is now the Engineering Project Manager at SKY Engineering.

## SKY ENGINEERING

### Engineering Project Manager

Thoroughly detail, review, and develop the schematic design into a complete working set of construction documents, including specification, contract, code compliance issues, etc., based on the project schedule.

Attend pre-construction and progress meetings for assigned projects to help answer / document any questions that arise, in order to maintain project timeline and schedule.

Responsible to provides complete management of project timelines and related design activity communication between the design team and the client/customer, accurately & timely

## RELEVANT EXPERIENCE

Daviess County HS Phase 1 and Phase 2 – Owensboro, KY

Burns Middle School HVAC Upgrade – Owensboro, KY

Meadowlands Elementary School – Owensboro, KY





## EDUCATION

Bachelor of Science-  
Mechanical Engineering -  
2016

Concentration in Thermal  
Fluids Science

Western Kentucky  
University

## AFFILIATIONS

American Society of  
Heating, Refrigeration, and  
Air-Conditioning

American Society of  
Mechanical Engineers

American Society of  
Plumbing Engineers

## SOFTWARE

AutoCAD, CHVAC, Revit  
2017 MEP, HVAC  
Solutions, TACO System  
Analysis

# Wesley Russelburg, EIT

Wesley joined Nami and Chase in 2015 while finishing up his mechanical engineering degree from Western Kentucky University. He has filled the role of an additional project manager, along with bringing in his experience in thermal dynamic design, load calculations and energy and environmental design layouts. He is now an EIT at SKY Engineering and will be pursuing his PE License soon.

## SKY ENGINEERING

### Mechanical Engineering Designer

Manage projects from design coordination with architects to field coordination with contractors. This is all done through pre-construction meetings, construction meetings and site meetings.

Thoroughly detail, review, and develop the schematic design into a complete working set of construction documents, including specification, contract, code compliance issues, etc., based on the project schedule.

Responsible to provides complete management of project timelines and related design activity communication between the design team and the client/customer, accurately & timely

Initiates and develops HVAC and Plumbing design concepts, detail and systems, while preparing presentation materials for owner, contractors, and architects.

## RELEVANT EXPERIENCE

Todd County High School HVAC Upgrade – Elkton, KY

Todd County Middle School HVAC Upgrade – Elkton, KY

Franklin Simpson HVAC Upgrade – Franklin, KY



## EDUCATION

Bachelor of Science -  
Architectural Science -  
2017

Concentration in  
Architectural &  
Manufacturing Sciences

Minor in Construction  
Management

Western Kentucky  
University

## AFFILIATIONS

American Society of  
Plumbing Engineers

## SOFTWARE

AutoCAD 2018, Revit  
2018, VRV Express,  
COMcheck, Bluebeam,  
SketchUp

## Lydia Cowles, CPDT

Lydia joined the team upon completing her Bachelor of Science. Bringing 6 years of experience in AutoCAD and 3 years of Revit modeling to the team. She is the backbone for our Revit software knowledge. Her focus is in the plumbing and piping system design. Lydia is a current holder of the Certified Plumbing Designer Technician certification.

## SKY ENGINEERING

### Plumbing Designer

Initially and thoroughly develops plumbing and piping system designs into a complete working set of construction documents, based on the project schedule.

Initiates and develops HVAC and Plumbing design concepts, details and systems, while preparing presentation materials for owner, contractors, and architects

Coordinates plumbing design with other disciplines to achieve cohesive set of Construction Documents and Specifications.

## RELEVANT EXPERIENCE

Spottsville Elementary School - Henderson, KY

Tamarack Elementary School - Owensboro, KY

Todd County Schools - Elkton, KY



## **Daviess County Schools**

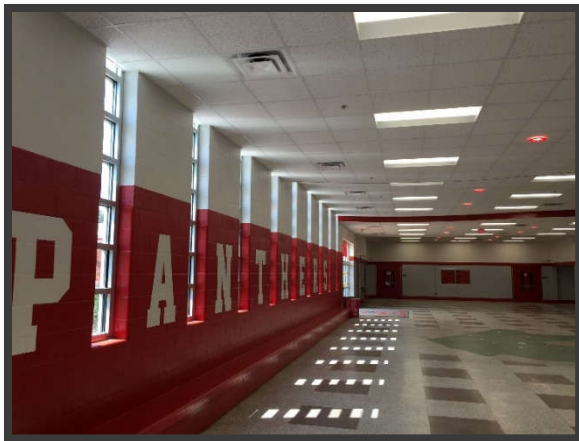
### **Owensboro, Ky**

**MEP Services:**      **Mechanical Upgrades**

**Project Cost:**      **\$7.8M**

**Completed:**      **August 2014**

The renovations consisted of the replacement of several outdated HVAC units with new, more efficient VRV (Variable Refrigerant Volume) units with a 100% outside air system to serve classrooms, offices, and large spaces such as the gymnasium and auditorium. In addition to the replacement of the HVAC units, SKY Engineering included a new heater for the Greenhouse. The kitchen hood was converted from Type I to Type II to assist in the switch from gas appliances to electric ovens and steamers. New LED lighting was installed in the cafeteria and auditorium. All the existing pneumatic controls were replaced with new Alerton controlled VLD (VisualLogic Display) controllers.



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#### **Owner's Representative:**

Matt Robbins, Superintendent  
Daviess County Public Schools  
1622 Southeastern Parkway  
Owensboro, KY 42303  
(270) 852-7000

#### **Contractor/ Architect:**

Henry's Plumbing  
4080 Vincent Station Drive  
Owensboro, KY 42303  
(270) 926-4367



## Todd County Schools

### Elkton, Ky

**MEP Services:** Mechanical and Lighting Upgrades

**Project Cost:** \$1.2M

**Completed:** August 2017



In the North and South Elementary Schools, existing water heaters were replaced. The existing air-handling units in the gymnasium were replaced with two packaged Roof-top units with gas heat to reconnect with the existing supply and return ductwork. Packaged Roof-top units also replaced existing units serving the library, office area, and art room.

In the Middle School the water heaters were replaced with new high efficiency equipment and a new split system unit was installed to serve the office and storage room. The Middle and Elementary schools' parking lots were upgraded to LED lighting, improving visibility and cutting energy costs.

At the High School, two packaged DX- gas heat Roof-top units with fabric ductwork replaced the existing air-handling units which reduced the noise and gave more capacity to chilled and hot water serving the building. The High School gymnasium was also equipped with new LED lighting.

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#### Owner's Representative:

Wayne Benningfield, Superintendent  
Todd County Public Schools  
205 Airport Road  
Elkton, KY 42220  
(270) 265-2436

#### Contractor/ Architect:

Henry's Plumbing  
4080 Vincent Station Drive  
Owensboro, KY 42303  
(270) 926-4367

## **Simpson County Schools**

### **Franklin, Ky**

**MEP Services:**      **Mechanical  
Upgrades**

**Project Cost:**      **\$950,000**

**Completed:**      **December 2016**



In the Middle School the existing split chiller was replaced with a new air-cooled chiller with accompanying piping and insulation. The existing pumps and classroom vertical fan coil units (unit ventilators) were replaced. The packaged air conditioning units serving the gymnasium were replaced with gas heat and all controls were tied into existing campus controller.

In the High School the pumps in the upper mechanical room were replaced, tied into existing campus control system, interlocked for chiller/ boiler/ cooling tower operation, and programmed for lead/ lag operation. In the lower mechanical room, the boiler, piping, and pumps were replaced.

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**Owner's Representative:**

Jim Flynn, Superintendent  
Simpson County Public Schools  
430 S. College Street  
Franklin, KY 42134  
(270) 586-8877

**Contractor/ Architect:**

Mechanical Consultants Inc.  
7727 Old KY 81  
Owensboro, KY 42301  
(270) 785-9505





## **Sorgho & Whitesville Elementary**

**Owensboro, Ky**

**MEP Services: Mechanical Upgrades**

**Project Cost: \$1.8M**

**Completed: July 2018**

The renovations at Sorgho Elementary School consisted of the replacement of existing Geothermal Water Source Heat Pumps with new Geothermal WSHP and associated pumps and controls.

The renovations at Whitesville Elementary School consisted of the replacement of existing Geothermal Water Source Heat Pumps with Water to Refrigerant Heat Pump system serving VRF (Variable Refrigerant Flow) equipment with upgraded controls.



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### **Owner's Representative:**

Matt Robbins, Superintendent  
Daviess County Public Schools  
1622 Southeastern Parkway  
Owensboro, KY 42303  
(270) 852-7000

### **Contractor/ Architect:**

Henry's Plumbing  
4080 Vincent Station Drive  
Owensboro, KY 42303  
(270) 926-4367

## Project Organization Chart



**NAMI NAHID, PE**

SENIOR MECHANICAL ENGINEER

PRINCIPAL-IN-CHARGE



**CHASE EMBRY**

ENGINEERING PROJECT MANAGER



**WESLEY RUSSELBURG, EIT**

MECHANICAL ENGINEER



**LYDIA COWLES, CPDT**

PLUMBING DESIGNER

**SUPPORT STAFF**

-DRAFTSMEN

-DESIGNERS

-ADMINISTRATION

ELECTRICAL ENGINEER

 **B.C. Engineering, Inc.**

*Mechanical & Electrical Engineering*

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Evansville, IN 47708

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