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PARTICIPANT INFORMATION

Company Name: ENERGY PANEL STRUCTURES, INC.
Contact Name: KEVIN ZADOW
Address: 603 N. VAN GORDON AVE.
City: GRAETTINGER State: IA Zip: 51342
Phone: 712-859-3219
Email: kzadow@epsbuildings.com Website: www.epsbuildings.com

CATEGORY ENTRY (check one category)

- | | |
|--|--|
| <input type="checkbox"/> Single Family Homes (over 3,000 sq. ft.) | <input checked="" type="checkbox"/> Commercial/Industrial/Institutional Buildings under 10,000 sq. ft. |
| <input type="checkbox"/> Single Family Homes (under 3,000 sq. ft.) | <input type="checkbox"/> Commercial/Industrial/Institutional Buildings over 10,000 sq. ft. |
| <input type="checkbox"/> Multifamily | <input type="checkbox"/> Renovations |
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Affordable Housing |

PROJECT INFORMATION

Project Name: PIZZA RANCH
Address: 517 W. MILWAUKEE
City: STORM LAKE State: IA Zip: 50588
Date completed: JULY, 2014
Total cost of project (exclusive of land): \$1,300,000
Dimensions of building (all floors of multi-story building):
67'x78'x12' = 5226 SQ. FT.
18'-6" x 8' x 10'-6" = 148 SQ. FT.
Asking price/purchase price (Affordable Housing only): N/A
Total sq. ft. of conditioned space: 5,374 SQ. FT.

BUILT BY (if different than applicant)

Company Name: QUAIL CONSTRUCTION, L.L.C.
Contact Name: JOE & ANNE QUAIL Phone: 712-580-5100
Address: 4045 HWY. 71
City: SPENCER State: IA Zip: 51301

PANELS MANUFACTURED BY (members only)

Company Name: ENERGY PANEL STRUCTURES, INC.

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DESIGNED BY (if different than applicant - SIPA will only recognize members)

Company Name: SIMONSON & ASSOCIATES ARCHITECTS L.L.C.

Contact Name: CLARK SNYDER

Phone: _____

Address: 1717 INGERSOLL AVE.

City: DES MOINES

State: IA

Zip: 50309

Please answer each question with as much detail as possible to help in the judging process.

Attach additional sheets if necessary.

Describe the end use of the building: PIZZA RESTAURANT -

DINE-IN, DRIVE-UP PICKUP WINDOW, & DELIVERY. PIZZA BUFFET, SALAD BAR, CHICKEN BUFFET, & DESERT BUFFET. FEATURES A COMMUNITY DINING ROOM WITH 60 CHAIRS, MAIN DINING WITH 134 CHAIRS, & A 1698 SQ FT COMMERCIAL KITCHEN WITH 8 OCCUPANTS; TOTAL OCCUPANCY CAPACITY = 208

How did SIP construction help you get this job?

THIS PROJECT BEGAN AS A "WINTER BUILD" AND USING SIPs WOULD GREATLY REDUCE THE AMOUNT OF LP GAS NEEDED DURING THE CONSTRUCTION PERIOD COMPARED TO STICK BUILT WALLS WHICH COULD NOT BE INSULATED UNTIL THE OTHER TRADES COMPLETED THEIR WORK. QUAL CONSTRUCTION HAS A LOT OF SIP EXPERIENCE AND HELPED SELL THE OWNERS ON THE BENEFITS OF USING SIPs. THE OWNERS LIKED THE FUTURE ENERGY SAVINGS AND THE ASSURANCE OF A TIGHT BUILDING ENVELOPE THAT WOULD HELP THE HVAC SYSTEM WORK PROPERLY & EFFICIENTLY NO MATTER HOW MANY OCCUPANTS THERE WERE.

SIP wall thickness and core material: 7/16 OSB / 5 3/8 EPS foam / 7/16 OSB

SIP roof thickness and core material: N/A

Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy?

REDUCED COST OF LP GAS FOR TEMPORARY HEAT DURING CONSTRUCTION. PARAPET WALLS OF DIFFERENT HEIGHTS WERE INCORPORATED INTO ONE LENGTH OF WALL PANELS, SAVING SUBSTANTIAL LABOR COMPARED TO STICK BUILDING. ALSO, USING SIPs FOR THE PARAPET WALLS ELIMINATED THE POSSIBILITY OF AIR LEAKAGE THROUGH THIS AREA, WHICH HAD OCCURRED AT OTHER PIZZA RANCH LOCATIONS WHICH WERE NOT SIPs.

Describe any innovative design elements or structural engineering involved:

INCORPORATING THE PARAPET WALLS INTO ONE CONTINUOUS HEIGHT SIP WALL PANEL

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Please list any certifications the project received, such as ENERGY STAR, LEED, National Green Building Standard, or local green building programs. Only list certifications that are completed:

N/A

HERS Index (residential projects): N/A

Blower door test results (ACH50) (residential projects): N/A

Energy use intensity in kBtu/ft2 (commercial projects): N/A

Describe the HVAC system used on the project:

(1) - TRANE 15 TON
(2) TRANE 7.5 TON
ROOF TOP UNITS
NATURAL GAS

TAG	RTU-A	RTU-B
MANUFACTURER	TRANE	TRANE
MODEL NUMBER	YFD 181	YHC 092
SIZE	15 TONS	7.5 TONS
NET CAPACITY	178,000 BTUH	89,000 BTUH
EFFICIENCY	13.6 IEER	12.6 IEER
HEATING OUTPUT	284,000 BTUH	160,000 BTUH
HEATING EFFICIENCY	80%	80%
EXTERNAL SP	.75"	.75"
ELECTRICAL	208V/3Ø	208V/3Ø
MCA/MAX CB	78A/90A	44.7A/60A
COOLING		
AMBIENT TEMP	95°F	95°F
SUPPLY AIRFLOW	6,000 CFM	3,000 CFM
MIN. O/A	1,475 CFM	630 CFM
DISCH AIR TEMP	55°F	55°F
CAPACITY @ 80/67	157.5/111.4 SC	92.6/71.7 SC
HEATING		
AMBIENT TEMP	-10°F	-10°F
SUPPLY AIRFLOW	6,000 CFM	3,000 CFM
MIN. O/A	1,475 CFM	630 CFM
HEATING OUTPUT	284,000 BTUH	160,000 BTUH

NOTES:

1. INCLUDE SINGLE POINT POWER CONNECTION AND DISCONNECT.
2. INCLUDE ECONOMIZER AND POWERED EXHAUST.
3. INCLUDE COMPRESSOR SHORT-CYCLING PROTECTION.
4. INCLUDE INSULATED ROOF CURB WITH VIBRATION ISOLATORS. PROVIDE THE FOLLOWING BETWEEN ROOF DECK AND RTU: (2) LAYERS 5/8" GYP BOARD, 12 GAUGE SHEET METAL, AND 6" ACOUSTIC INSULATION.
5. INCLUDE POWERED GFI ELECTRICAL OUTLET.
6. INCLUDE CO2 SENSING AND OUTDOOR AIR CONTROL FOR RTU-A AND RTU-B.
7. THERMOSTATS SHALL INCLUDE TIME SCHEDULES AND SETBACK TO MEET ASHRAE 90.1 REQUIREMENTS. PROVIDE HONEYWELL VISIONPRO 8000 OR EQUAL.
8. PROVIDE REMOTE SENSORS FOR THERMOSTATS AS SHOWN. CONTROLLER IN OFFICE SHALL BE CAPABLE OF CONTROLLING HVAC VIA REMOTE SENSOR TEMPERATURE. (SET TO 50% SPACE) FOR RTU-A, RTU-B, AND RTU-C.
9. INCLUDE DEHUMIDIFICATION, HUMIDITY SENSORS AND REHEAT WITH ALL CONTROLS (SET TO 50% SPACE) FOR RTU-A, RTU-B, AND RTU-C.
10. MINIMUM OUTDOOR AIR FOR RTU-C IS BASED ON PEOPLE AND AREA. ACTUAL MINIMUM MAY NEED TO BE HIGHER BASED ON SPACE PRESSURIZATION.
11. RTU-A, RTU-B, AND RTU-C SHALL HAVE MULTIPLE COMPRESSORS.
12. SUPPLY AIRFLOW VALUES MAY BE NOMINAL. T&B CONTRACTOR TO BALANCE TO AIRFLOW TOTAL FROM OUTLET CFMS SHOWN ON DRAWINGS.

Describe any other energy-saving materials used in the building envelope other than SIPs. List U-values of windows used and the R-value of any insulation materials.

PELLA DESIGNER SERIES WINDOWS: INSULATED GLASS, LOW E, ADVANCED ARGON, U=0.27
ROOF INSULATION: R-38 - 2 LAYERS OF 3" POLYISO INSTALLED IN OPPOSITE DIRECTION SO SEAMS DID NOT OVERLAP,
DURALAST MEMBRANE ROOF OVER THE POLYISO INSULATION - LIGHT TAN COLOR TO REFLECT SUNLIGHT.

Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar:

- ☐ INTERIOR & EXTERIOR LED LIGHTING
- ☐ 95% EFFICIENCY NAT. GAS WATER HEATER-100GAL
- ☐ TIMER & PHOTO CELL CONTROLLED EXTERIOR LIGHTING
- ☐ THERMOSTATS INCLUDE TIME SCHEDULES & SETBACK FEATURES TO MEET ASHRAE 90.1 REQUIREMENTS
- ☐ RESTROOM EXHAUST FANS OPERATE WITH OCCUPANCY SENSORS
- ☐ RESTROOMS EQUIPPED WITH HOT-AIR HAND DRYERS
- ☐ RESTROOM TOILETS, URINALS, & FAUCETS EQUIPPED WITH INFARED VALVES

Were any solar panels installed on the project? If so, indicate the size of the system:

NO

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Please list any sustainable materials or design features not listed above, such as recycled materials, low-VOC finishes, landscaping, etc.:

LOW-VOC LATEX PAINT & STAINS USED FOR INTERIOR & EXTERIOR FINISHES

GREEN SPACE & LANDSCAPE PLAN FOR STORM WATER RUNOFF & DETENTION BUFFER

Any additional comments on the project:

THIS PROJECT CAUGHT THE ATTENTION OF THE PIZZA RANCH CORP. TEAM MEMBERS IN CHARGE OF NEW CONSTRUCTION AND WERE SO IMPRESSED WITH THE QUALITY OF MATERIALS & WORKMANSHIP, THAT THEY DOCUMENTED AND TOOK PICTURES OF THE FINISHED PRODUCT TO USE AS A BASE & GUIDE FOR FUTURE PIZZA RANCH DESIGNS & SPECS.

CHECKLIST

- ☒ My company is a SIPA member. Panels for this project were manufactured by a SIPA member.
- ☒ I have answered ALL the questions completely
- ☒ I have enclosed the two required electronic images of the completed project meeting the requirements stated in the SIPA Building Excellence Awards guidelines
- ☒ I have indicated the HERS Index as determined by a RESNET certified home energy rater (residential projects)

PLEASE CONFIRM: I have read and understand the rules for this competition. This entry is structural insulated panel construction as defined in the SIPA Building Excellence Awards guidelines. I understand by making this submission that my pictures will be used by the Structural Insulated Panel Association (SIPA) to promote the use of structural insulated panels. I hereby give permission to SIPA to use the enclosed pictures for any use they see fit in that endeavor. I understand that where possible, SIPA will give credit for pictures used to my company as listed above.

Signature:

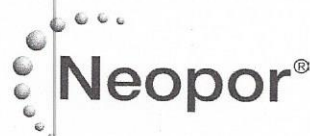
Kevin E. Zaher DSM - EPS BUILDING Date: 3-16-15

Entries that do not contain all required materials or are received after **March 13, 2015** will not be considered

Complete application and submit electronically to maryjane@sips.org

Or send hard copy applications to SIPA office:
1201 Pacific Ave, Suite 600, Tacoma, WA 98402

Building Excellence Award sponsor



Structural Insulated
Panel Association