RETURN AIR DUCT SYSTEM FOR AIR HANDLERS 17C AND 17D, CORONADO SPRINGS RESORT, LAKE BUENA VISTA, FL

replacement duct has a 2% slope built-in to the top to eliminate water puddling on top of the ductwork

SHEET METAL CONTRACTOR: MCDONALD AIR & SHEET METAL, INC., ORLANDO, FL
RETURN AIR DUCT SYSTEM FOR AIR HANDLERS 17C AND 17D, CORONADO SPRINGS RESORT, LAKE BUENA VISTA, FL

This was a retrofit project on an existing one-story building.

The project was different from most because the duct system was specified to be double wall, with a 2-inch closed cell insulation sandwiched between an outer skin of 20 ga. stainless steel and the inner skin of 20 ga. galvanized.
The tops of both the inner and outer skins of all the ducts had to have a 2% slope built in so water would not collect.

McDonald Air’s Shop Manager, Les Jones, said this created a challenge keeping all the different pieces organized. Les Jones and Shop Foreman, Neal Coning worked out the glitches and the team produced the duct on time and within budget.

Project Manager, Dick Lauber, said further challenges were encountered by the field crew including the location of the work area, the weather, and working in an occupied building.
The work area was on a low roof surrounded by a higher roof area.

All Sunshine Crane Rental supplied a 275 ton crane that provided enough reach to place the duct where it was needed for installation.

The weather also intervened. First, a two-week hold was placed on all lifts until the weather was clear. Then no lifts were allowed if wind conditions exceeded 10 mph.

Finally, all material handling was conducted at the onsite loading dock so all materials in and out were worked around Disney’s personnel and their schedule.

The project took a total of 365 man hours in the shop and 425 man hours in the field.
FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS

• SMACNA’s Fire, Smoke and Radiation Damper Installation Guide for HVAC Systems, 2002 fifth edition was updated from the 1992 edition and includes updated code references, NFPA references, and expanded guideline notes as to the details of damper installation.

• The appendices on smoke control and smoke detectors have been revised to reflect the current technology and requirements for those applications.

• The purpose of the guide is to outline the considerations in specifying and installing fire dampers, smoke dampers, combination fire and smoke dampers and ceiling dampers in HVAC systems.

• Provide contractors, system designers, and code officials with an understanding of their respective responsibilities as mandated by the model codes; and illustrate the use of specific respective responsibilities as mandated by the model codes; and illustrate the use of specific methods of application in HVAC systems.

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SMACNA RELEASES SIX MODEL SPECIFICATIONS ON HVAC RELATED WORK

SMACNA has issued six model specifications or guides on HVAC-related work to assist members and the specifying community in correctly specifying sheet metal components and their installation. The model specifications reference CSI’s Masterformat Division 23 - HVAC and include the following sections:

• Metal Ducts - Section 23 31 13
• Dampers - Section 23 33 13
• Duct Silencers - Section 23 33 19
• Turning Vanes - Section 23 33 23
• Duct Mounting Access Doors - Section 23 33 33
• Flexible Connectors - Section 23 33 43

All sections reference relevant SMACNA standards. Members are encouraged to share these model guides with partners in the specifying communities for editing to fit the needs of specific projects. These six model specifications can be found on the Business/Project Management section of the SMACNA Website under “Contract Administration.”
FLORIDA SMACNA, INC. MEMBER FIRMS

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• HVAC Duct Systems Inspection Guide.
• Kitchen Ventilation Systems & Food Service Equipment Fabrication & Installation Guidelines.
• Residential Sheet Metal Guidelines.
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• Standard Practice in Sheet Metal Work.

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SMACNA’S ENVIRONMENTAL PUBLICATIONS
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