

Florida

SMACNA Inc.

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TECH/SPEC

NEWS

**MAYO CLINIC EXTENSION AND RENOVATION,
JACKSONVILLE, FL**



Sheet Metal Contractor: Ray's Metal Works, Inc., Alachua, FL

MAYO CLINIC EXTENSION AND RENOVATION, JACKSONVILLE, FL



Architect: Perkins and Will, Atlanta, GA
Engineer: Tilden, Lobnitz and Cooper (TLC), Orlando, FL
Sheet Metal Contractor: Ray's Metal Works, Inc., Alachua, FL

The Mayo Clinic, a \$7 million dollar sheet metal project, is the largest project that Ray's Metal Works, Inc. has worked on in its thirty-four years in business.

The project required the fabrication and installation of duct work in two seven-story buildings, two four-floor extensions to two existing two-story buildings and a kitchen renovation. Except for the kitchen renovation, the project required 32 air handling units, 76 exhaust fans and 39 fan coil units, installing duct work, fire smoke dampers, fire dampers and volume dampers.

Ray's fabricated and installed medium and low pressure duct and plenums, galvanized stainless steel fume exhaust, and



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air distribution (grills, diffusers, and dampers).

All of the duct was fabricated at Ray's shop in Alachua and delivered to the job site. To get the large amount of duct installed required 80 men on the project at one point. There is currently over one hundred thousand hours of labor in the shop and on the job invested in the project.

Ray's has been at work on this project since September, 2005. It is expected to be finished at the beginning of 2008.

The sheer enormity of the project, the amount of duct work to be installed on each floor, keeping up with the schedule and working with the other trades to get everything installed in the allotted space posed challenges to those working on the project.



Ray's Metal Works, Inc. is a sheet metal contracting company located outside of Gainesville, Florida.

Company President, Ray Burnsed, Sr. has over 50 years experience in the sheet metal business.

The company presently has projects located from Key West to Jacksonville in

Florida.

Other major projects include: Nanoscale of the University of Florida, Blue Cross and Blue Shield in Jacksonville, and Hurricane Wilma repairs on housing units at the Naval Air Station in Key West.

HOLMES REGIONAL MEDICAL CENTER: NORTH EXPANSION PROJECT, MELBOURNE, FL



Architect: HES Architects, Inc., Orlando, FL
Engineer: TLC Engineering, Inc., Orlando, FL
Construction Manager: Bovis Lend Lease, Melbourne, FL
Mechanical Contractor: Harper/Limbach, Sanford, FL
Sheet Metal Contractor: Lapin Sheet Metal Co., Inc.

The scope of this project consisted of the renovation to the existing hospital and the addition of a new eight-story bed tower.

The project began in December, 2004 with the production of shop drawings for coordination. The work began on the ground level and proceeded upward with substantial completion of the new addition in December, 2006.

The entire project is scheduled for completion in April, 2007.

Lapin Sheet Metal Co., Inc. used Ruskin dampers, Ruskin Miami/Dade missile impact rated louvers and vents, Titus Air



HOLMES REGIONAL MEDICAL CENTER: NORTH EXPANSION PROJECT, MELBOURNE, FL



Distribution Devices, and Lindab, Inc. round and oval duct-all supplied by the Tom Barrow Company of Orlando.

G-90 galvanized metal was used for general HVAC duct fabrication. The vertical outside air duct and lab exhaust duct was fabricated by the Lapin shop using 304 stainless steel.

The challenge on this job was the limited space for MEP above the first and second level ceilings. This obstacle was overcome by the contracting team working together with Bovis at the point overlaying shop drawings and resolving trade conflicts in the coordination process.

This allowed Lapin to minimize trade conflicts in the field and avoid resulting costly delays.

Daniel DeMaso, Vice President-Sales of Lapin Sheet Metal Co., Inc. thanks Bob Danner with TLC Engineering, Inc. for his pro-active approach in solving difficult coordination issues while keeping the project moving forward.

Special recognition is due Amber Gnann and Terry Myers of Bovis Lend Lease whose efforts directly added to project completion on time and of excellent quality.

He also recognizes Warren Klemm of Harper/Limbach for his ability to keep all the MEP trades together and pointing towards successful project completion.



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OTHER CONTRIBUTORS TO THE FLORIDA SHEET METAL INDUSTRY

Air Duct, Inc.

Apollo Construction & Engineering

D&J Sheet Metal

DKG & Associates

Digital Climate & Control

EK Installations

EMC2 Sheet Metal

Florida Metal Art

FCR Mechanical Contractors

Industrial Steel

JP Sheet Metal

JV Installation

MFH Sheet Metal Fabricators, Corp.

Precision Mechanical, Inc.

Quality Metal Works, Inc.

SDB Engineers and Constructors, Inc.

Triple M Roofing Corp.

Universal Fabrication Services

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HVAC DUCT SYSTEMS INSPECTION GUIDE

This SMACNA manual contains guidelines for inspection of commercial HVAC duct systems for compliance with ANSI/SMACNA 006-2006 HVAC Duct Construction Standards, Metals and Flexible, (3rd edition) and Fibrous Glass Duct Construction Standards (7th edition).

It reviews materials and reinforcement of duct systems, as well as assembly and

supports of ducts.

The Fire Smoke and Radiation Damper Guide (5th edition) also summarizes installation details.

Checklists are included for ductwork and fire dampers. It is valuable as a study guide for the HVAC Duct Construction Standards manual and for learning inspection procedures in general.

The manual includes soft metrics.

For additional information and price list go to www.smacna.org

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SMACNA Inc.

• SMACNA'S CONSTRUCTION STANDARDS

- Accepted Industry Standards for Sheet Metal Lagging.
- Architectural Sheet Metal Manual.
- Architectural Sheet Metal Manual, CADD Version 2.0
- Fire Smoke and Radiation Damper Installation Guide for HVAC Systems.
- Guide for Steel Stack Construction.
- Guidelines for Roof Mounted Outdoor Air-Conditioner Installations.
- HVAC Duct Systems Inspection Guide.
- Kitchen Ventilation Systems & Food Service Equipment Guidelines.
- Managers' Guide for Welding.
- Residential Sheet Metal Guidelines.
- Seismic Restraint Manual: Guidelines for Mechanical Systems.

- SMACNA/ASHRAE Seismic Restraint Applications CD-ROM.
- Standard Practice in Sheet Metal Work.

• SMACNA'S DUCT STANDARDS

- Duct Research Destroys Design Myths (Bubble Video).
- Duct System Calculator - Imperial.
- Ducted Electric Heat Guide for Air Handling Systems.
- HVAC Duct Design Home Study
- HVAC Systems - Duct Design.

• SMACNA'S DESIGN GUIDELINES

- Accepted Industry Practice for Industrial Duct Construction.
- Fibrous Glass Duct Construction Standards.
- HVAC Air Duct Leakage Test Manual.
- HVAC Duct Construction Standards - Metal and Flexible.
- Rectangular Industrial Duct Construction Standards.
- Residential Comfort System Installation Standards Manual.

- Round Industrial Duct Construction Standards.
- Round Industrial Duct Construction Standards (RIDCS) Software Version 2.0.
- Thermoplastic Duct (PVC) Construction Manual.
- Thermoset FRP Duct Construction Manual.
- SMACNA'S ENVIRONMENTAL PUBLICATIONS
 - Building Systems Analysis and Retrofit Manual.
 - Energy Systems Analysis and Management.
 - HVAC Systems - Applications.
 - HVAC Systems - Commissioning Manual.
 - HVAC Systems - Testing, Adjusting & Balancing.
 - IAQ Guidelines for Occupied Buildings Under Construction.
 - Indoor Air Quality - A Systems Approach.
 - TAB Procedural Guide.

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