

Florida

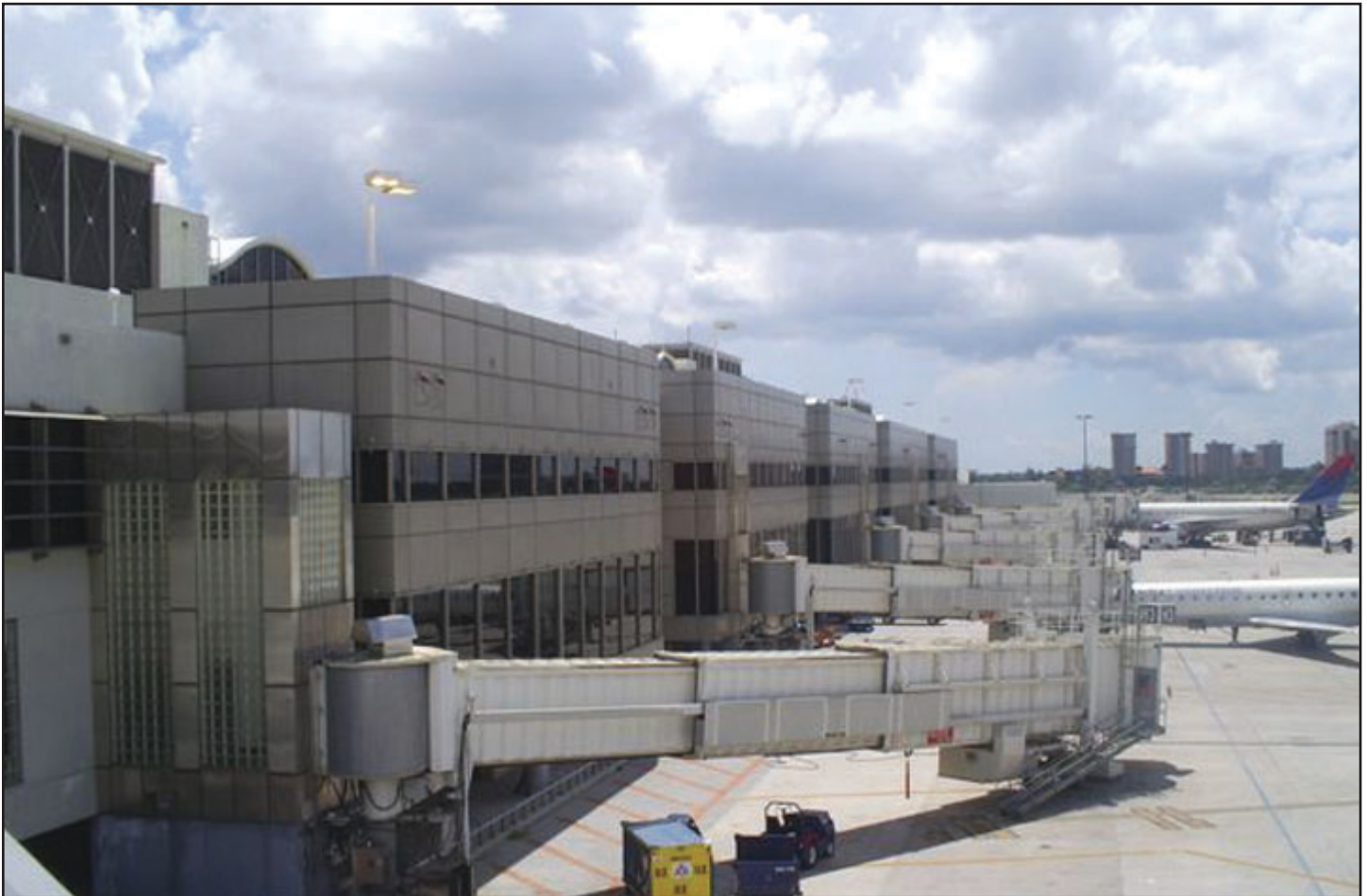
SMACNA Inc.

Quarterly Edition - October, 2006

Volume 23

TECH / SPEC NEWS

MIAMI INTERNATIONAL AIRPORT, CONCOURSE H, INTERNATIONAL MODIFICATIONS, MIAMI, FL



Architect: Perez & Perez, Miami, FL

Engineer: SDM Consulting Engineers, Inc., Coral Gables, FL

Construction Managers: Parsons-Odebrecht Joint Venture, Miami, FL

Sheet Metal Contractor: Dodec, Inc., Hialeah Gardens, FL

MIAMI INTERNATIONAL AIRPORT, CONCOURSE H, INTERNATIONAL MODIFICATIONS, MIAMI, FL



The scope of this project was to install VAV's galvanized supply, return and exhaust duct work along with the required smoke exhaust fans in the Miami International Airport, Concourse H.

The duct was manufactured by MFH Sheet Metal Fabricators, Corp. of North Miami Beach. MFH Sheet Metal Fabricators, Corp. recently purchased the fabrication division of TES of South Florida. MFH produces lined, unlined, single & double-wall metal duct, fiberglass duct, stainless steel and kitchen exhaust duct to the customer's specifications.

The main challenges that the Concourse H Project presented were: 1) Portions of the work had already been performed by

another contractor, who defaulted on his contract. 2) The project was a revision of an existing concourse in the airport and 3) The plans did not reflect the tenant changes that had occurred over the years.

It appeared that the previous contractor was unable to adequately communicate with the engineer and thus was unable to complete the job.

Dodec, Inc. took over the project and after surveying the conditions, met with the engineer and reviewed the challenges presented by the job and their scope with him. Dodec and the engineer were able to communicate the job challenges.

Dodec assisted the engineer in solving design RFI's and was able to get the job rolling again. Dodec's portion of the job

is now complete and the entire concourse will shortly be finished.

Sometimes jobs that appear to be difficult at first glance turn out to be just the opposite. A simple meeting of the minds at the site was all it took for a successful performance.

The client has expressed their satisfaction with the project, and as a result Dodec, Inc. has been called upon to do additional work.

BREVARD COUNTY DETENTION CENTER EXPANSION, COCOA, FL



Architect: Rogers, Lovelock & Fritz, Inc., Winter Park, FL
Mechanical Contractor: Precision Mechanical, Inc., Cocoa, FL
Sheet Metal Contractor: Lapin Sheet Metal Company, Inc., Orlando, FL

The Brevard County Detention Center Expansion project was unusual because it required the installation of duct work into Sprung Instant Structures or stressed membrane structures, which are engineered relocatable clear span structure systems referred to by the Detention Center as “tents”. For more information on these unique structures see www.sprung.com.

Lapin Sheet Metal Company, Inc. contracted to install HVAC duct in four detention tents and in one masonry structure, the laundry facility.

All duct was galvanized sheet metal fabricated and installed according to SMACNA standards.



BREVARD COUNTY DETENTION CENTER EXPANSION, COCOA, FL



Additionally, Eastern Sheet Metal, Co. provided dual wall spiral duct and Price Air Devices were used in all four tents. The Price Air Devices and Greenheck Duct Specialties provided by Stan Weaver Company were utilized in all four tents.

One of the unique aspects of the project was the upper hanger attachments which were used to support the mechanical systems. These attachments had to mate with slots in the ribs of the building steel and were positioned along these slots at required locations to mate with the mechanical systems they were to support.

The attachment locations required a coordinated effort on the part of all the contractors involved. There was also a mechanical mezzanine in each tent which housed the air handling unit.

The \$262,500.00 project was fast track starting in May, 2006 and completed in July, 2006 ready for owner occupancy.

Lapin Sheet Metal Company, Inc. recognized the Precision Mechanical, Inc. crew for their support in making the timely completion of the project a reality.



DAYTONA BEACH COMMUNITY COLLEGE MORI HOSSEINI CENTER, DAYTONA BEACH, FL



Architect: Florida Architect, Inc., Orlando, FL
Engineer: Cape Design Engineering, Cape Canaveral, FL
Construction Manager: PPI, Gainesville, FL
Mechanical Contractor: W. W. Gay, Orlando, FL
Sheet Metal Contractor: Lee's Sheet Metal & Air Conditioning, Inc., East Palatka, FL
Drafting Services Contractor: Cadvantage Drafting Service, Inc., St. Petersburg, FL

The Daytona Beach Community College Mori Hosseini Center project consists of the construction of a new facility for the relocation and expansion of the college's hospitality, tourism and culinary programs and for the Southeast Museum of Photography.

The scope of the project for Lee's Sheet Metal & Air Conditioning, Inc. of East Palatka includes providing the fabrication and installation of the HVAC duct system for the new two-story, 67,000 square-foot Mori Hosseini Center.

Lee's Sheet Metal contracted with Cadvantage Drafting Services, Inc. of St. Petersburg to provide coordination and fabrication drawings for the project.

Cadvantage utilizes an in-house custom 3-D Autocad® based software program for duct work design. The program allows Cadvantage to produce drawings that help Lee's Sheet Metal stay on schedule. It also helps address coordination problems prior to fabrication.

Cadvantage Drafting Service's President, Dan Sinclair, emphasizes the importance of good communication between architects, owners, engineers and project managers.

"In today's construction environment, effective coordination is the key to a successful project. Our 3-D drawings enable these professionals to pinpoint problem areas before they can have a negative impact."

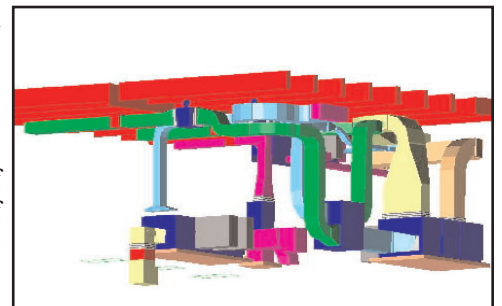
The expected completion date for this project is July 10, 2007.

Jimmy Lee, president of Lee's Sheet Metal & Air Conditioning, Inc., expressed his sincere gratitude to everyone involved in the coordination phase of this project.

Special thanks go to James Cason of PPI Construction, Jack Sanderson of W. W. Gay Mechanical, Claude Evans of Southeast Fire Protection, Dan Sinclair of Cadvantage and Brian McCord of Lee's Sheet Metal.



Cadvantage Detailers Mike Reiss and Felipe Arango Reviewing Equipment Room Drawing.



FLORIDA SMACNA, INC. MEMBER FIRMS

In the sheet metal and air conditioning business, nobody knows excellence quite the way SMACNA Contractors do. After all, they wrote the book on it. Why take a chance on doing business with anyone who offers less.

Air Management Systems, Inc.

16215 15th Avenue
Miami, FL 33169
305-651-0440
Jim Hightower

All Southern Fabricators, Inc.

5010 126th Avenue N.
Clearwater, FL 33760
727-573-4846
Manuel Santana, Jr.

Anderson Technical Systems, Inc.

333 W. Marion Avenue
Edgewater, FL 32131
386-423-2500
Tim Anderson

Bohnert Sheet Metal

2225 NW 76th Street
Miami, FL 33147
305-696-6851
William H. Marvel, Jr. (Skip)

BSA Sheet Metal

2530 Ali Baba Avenue
Opa Locka, FL 33054
305-681-3771
John Rudisill

CADVANTAGE Drafting Service, Inc.

2220 1st Avenue S.
St. Petersburg, FL 33713
727-321-2072
Dan Sinclair

Cailis Mechanical Corp.

12555 Orange Drive, Suite 108
Davie, FL 33330
954-252-0263
Emanuel Cailis

Dodec Inc.

3140 W. 84th Street, Bay #2
Hialeah, FL 33018
305-826-4022
Trevor Pantry

Ferber Sheet Metal Works, Inc.

P.O. Box 26069
Jacksonville, FL 32226-6069
904-356-3042
George Ferber

Gordon Metal Fabricators

1209 Old Hopewell Road
Tampa, FL 33619
813-663-9884
Christopher Gordon

Lapin Sheet Metal Company

3825 Gardenia Avenue
Orlando, FL 32839
407-423-9897
Ronald J. Lapin

Lee's Sheet Metal Works, Inc.

P.O. Box 756
East Palatka, FL 32131
386-328-5563
James Lee

McDonald Air and Sheet Metal, Inc.

2730 Eunice Avenue
Orlando, FL 32808
407-295-0220
Ralph Carver

Magnum Sheet Metal, Inc.

7470 NW 68th Street
Miami, FL 33166
305-885-5656
William H. Murphy, Sr.

MetalFab, Inc.

28212 Rice Road
San Antonio, FL 33576
352-588-9901
Wally Ruda

National Sheet Metal Co.

8318 Atlantic Blvd.
Jacksonville, FL 32211
904-724-7476
Ed Dickey

Omega Test and Balance

126 Wisteria Avenue
Fort Pierce, FL 34982
772-216-7362
Hugh Grimes

R. Neth & Son, Inc.

360 E. Landstreet Road
Orlando, FL 32824
407-855-9096
Steven Woodley

Ray's Metal Works, Inc.

P.O. Box 700
Alachua, FL 32615
386-462-1415
Ray Burnsed, Sr.

Sheet Metal Experts, Inc.

8986 N.W. 105th Way
Medley, FL 33178
305-805-2019
William F. Medlin

South Florida Sheet Metal

5217 NE Shore Village Terrace
Stuart, FL 34996
954-647-6457
Wayne Bozer

United Sheet Metal Company

14945 NW 25th Court
Miami, FL 33054
305-685-3526
Rich Applegate

Vickers Metal Works, Inc.

6701 Edgewater Commerce Pkwy.
Orlando, FL 32810
407-297-7546
Tim Vickers

OTHER CONTRIBUTORS TO THE FLORIDA SHEET METAL INDUSTRY

Air Duct, Inc.

Apollo Construction & Engineering

D&J Sheet Metal

Draft-Tronics

EK Installations

FCR Mechanical Contractors

Florida Metal Art

1st Plumbing and Air

Conditioning of Florida

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

Walt Disney World Company

flsmacna@bellsouth.net

EARLY START-UP OF PERMANENTLY INSTALLED HVAC SYSTEMS

Contractors are increasingly being required to perform early start-up of HVAC Systems for the use of temporary heating, cooling or dehumidification during the construction process.

This practice can pose a significant impact to the integrity of the HVAC equipment and HVAC distribution system.

SMACNA has developed several documents in reference to concerns related to early start-up of HVAC systems.

The document on Temporary Uses of HVAC Systems in Building Construction Projects outlines the realities and risks of using temporary heating, cooling and dehumidification equipment.

Early start-up of HVAC systems can often create serious issues and concerns with regard to warranties and service.

To view the documents on early start-up, visit the SMACNA website www.smacna.org.

Florida

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.

Florida

SMACNA Inc.

6767 N. Wickham Road, Suite 400
Melbourne, Florida 32940



Florida SMACNA, Inc.

6767 N. Wickham Rd. #400

Melbourne, FL 32940

Tel: 321-242-8223 Fax: 321-242-8277

flsmacna@bellsouth.net

Susan E. Karr, CAE

Executive Vice President