

Florida

# SMACNA Inc.

Quarterly Edition - July, 2006

Volume 22

## TECH / SPEC

## NEWS

### DOOR FRAME (JAMBS AND LINTELS)

TAMPA INTERNATIONAL AIRPORT, AIR SIDE "C" SHUTTLE TRAM, TAMPA, FL



Sheet Metal Contractor: Gordon Metal Fabricators, Inc., Tampa, FL

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**DOOR FRAME (JAMBS AND LINTELS)**  
**TAMPA INTERNATIONAL AIRPORT, AIR SIDE "C" SHUTTLE TRAM, TAMPA, FL**



**Sheet Metal Contractor:** Gordon Metal Fabricators, Inc., Tampa, FL  
Bombardier Transportation, Pittsburg, PA



## DOOR FRAME (JAMBS AND LINTELS)

### TAMPA INTERNATIONAL AIRPORT, AIR SIDE “C” SHUTTLE TRAM, TAMPA, FL

Precision metal fabrication was the hallmark of this project undertaken by Gordon Metal Fabricators, Inc. of Tampa, Florida.

The scope of the project included the fabrication and installation of stainless steel door jambs and lintels for the frame of the shuttle tram door which provides entrance and egress for the shuttle tram for Airside “C” and Landside “C” at Tampa International Airport.

The door jambs and lintels were constructed of 16 gauge polished #3 fine stainless steel.

The door jambs contain internal electrical boxes built into the door jambs.

Challenging the craftsmen at Gordon Metal Fabricators, Inc. was the requirement that the door jambs had to match the opening of the shuttle tram.

In addition, the depth had to be less than 3/16” from the door of the tram to eliminate the chance of passengers fingers getting injured.



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## COCA COLA LINE #5 AUBURNDALE, FL

**Architect/Engineer:** Hixon Architects and Engineers, Cincinnati, Ohio  
Lead Engineer: Stace L. Pahl, P.E.

**General Contractor:** R.C. Stevens Construction Company, Orlando, FL  
General Contractor Project Manager: Allyn Brice  
Superintendent: Tom O'Keefe

**Mechanical Contractor:** S.I. Goldman, Co., Inc., Longwood, FL  
Mechanical Project Manager: Dustin Prill

**Sheet Metal Contractor:** McDonald Air & Sheet Metal, Inc., Orlando, FL  
Project Manager: Dick Lauber  
Job Site Foreman: David Laietta

The scope of this job called for the fabrication and installation of 7490 lbs. of rectangular duct, 2956 lbs. of round duct, 12,600 lbs. of stainless duct and the installation of two air handling units and three exhaust fans in a ten-week schedule.

The craftsmen at McDonald Air and Sheet Metal, Inc. completed the job on time and

within budget with a total of 2584 man-hours.

Challenging the installation was the necessary coordination with many other trades in order to get the job done. Installation of the duct work was particularly demanding because the roof was 35' above the floor.

In the fill room there were six stainless steel risers exhausting any moisture or odors up to two main headers located on the roof.

This duct work was connected to another main header at the A/H unit which either drew return air back to the unit or exhausted the air through an exhaust fan on the roof.

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## NEW HORIZONS' STUDY EXAMINES PRE-CONSTRUCTION PLANNING

Learn the importance of pre-construction planning at the "Achieving Greater Success and Profitability Through Construction Planning" session, A New Horizons Foundation Project, on Monday, October 9th during SMACNA's annual convention, October 8th to 12th in Phoenix.

Awad S. Hanna, Ph.D., P.E., a professor of civil and environmental engineering at the University of Wisconsin-Madison, will host the presentation.

This completed research project devel-

oped a formal pre-construction planning process that demonstrated that the pre-planning can significantly increase the chances of having a successful and profitable project.

According to the study, the benefits of implementing a pre-planning process are quantifiable and concrete. Yet, these benefits have not been fully recognized by the HVAC and sheet metal contracting industry.

The final product is a powerful, yet easy-to-understand two-part guidebook that

quantifies the benefits of pre-construction planning and includes a "Pre-Construction Planning Best Practices" manual.

Also included is a step-by-step procedure that contractors may use to implement a formal pre-construction planning process.

For more information, contact Mary Lou Taylor, director of meetings and convention at (703) 803-2998 or [mtaylor@smacna.org](mailto:mtaylor@smacna.org) or visit the SMACNA homepage at [www.smacna.org](http://www.smacna.org)

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## INDUSTRIAL VENTILATION CONFERENCE ANNOUNCED

The 28th annual Industrial Ventilation Conference will be held in Birmingham, Alabama October 16th to 18th, 2006.

The conference instructs attendees on how to provide effective and economical ventilation through proper application of established principals.

Designed for plant engineers, sheet metal contractors, consulting engineers as well as others involved in the design, maintenance and performance of ventilation systems, the lectures and hands-on problem-solving sessions lead participants through the step-by-step design of various types of ventilation systems.

Students select appropriate exhaust hoods, determine air volume and minimum duct velocity, size duct, calculate system pressure loss and select fans and air cleaning devices along with instruction on a variety of other ventilation topics.

Each attendee will receive a copy of the latest edition of "Industrial Ventilation - A Manual of Recommended Practice," published by American Conference of Governmental and Industrial Hygienists (ACGIH).

In addition to the general sessions, attendees will attend classroom lectures designed to complement the classroom problem sessions.

These programs are given by nationally known experts and are presented at appropriate intervals throughout the conference.

The registration fee for the three-day conference program is \$895. For more information on the conference visit the web site at [www.engr.arizona/EPD](http://www.engr.arizona/EPD) or contact the University of Alabama School of Engineering at (502) 621-4007.

## 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**  
**Draft-Tronics**  
**EK Installations**  
**FCR Mechanical Contractors**  
**Florida Metal Art**

**1st Plumbing and Air Conditioning of Florida**  
**Industrial Steel**  
**JP Sheet Metal**  
**JV Installation**  
**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](http://flsmacna@bellsouth.net)

## UPDATE ON SMACNA TECHNICAL PROJECTS

New publications scheduled for the SMACNA technical department in 2006 will be a new edition of the Sheet Metal Welding Guide to be published in October or November and the 4th edition of the HVAC Systems Duct Design Manual out in November or December.

Future publications to be available in 2007 are: Accepted Industry Practice for

Industrial Duct Construction, HVAC Air Duct Leakage Test Standard, 2nd edition, and the Seismic Restraint Manual, 3rd edition.

Also planned are Guide to Steel Stack Construction, 2nd edition, which will include smaller stacks and fume exhausts; a Green (Sustainable) Buildings Standard, HVAC Duct Systems Inspection Guide,

based on the new 3rd edition manual; HVAC Systems Applications: HVAC Systems Commissioning Manual; a Residential Comfort Systems Installation Standard; and a Guideline on Through-Penetration Fire Stopping.

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### • 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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**Susan E. Karr, CAE**

**Executive Vice President**