MANATEE COUNTY

February 28, 2011

All Interested Bidders:

SUBJECT: Invitation for Bid #11-1106-OV
Manatee County Convention Center HVAC and Control Replacement
Palmetto, FL (Project File #49664)

ADDENDUM #3

Bidders are hereby notified that this Addendum shall be acknowledged on page 00300-1 of the Bid Form and made a part of the above named bidding and contract documents. Bids submitted without acknowledgement of the Addendum will be considered incomplete.

The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

Bidders Note: Additional questions shall not be accepted at this time as the stated deadline of **February 18, 2011** has lapsed. This deadline has been established to maintain fair treatment of all potential bidders, while maintaining the expedited nature of the Economic Stimulus that the contracting of this work may achieve.

Attachments:

- Global MEP & Fire Engineering, Inc., Memorandum dated February 28, 2011responding to additional questions received via email through close of business, February 18, 2011. (7 Total Pages)

Financial Management Department – Purchasing Division
1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205
Phone: 941-749-3055 – Fax: 941-749-3034
www.mymanatee.org

February 28, 2011
Invitation for Bid ##11-1106-OV
Manatee County Convention Center HVAC and Control Replacement
Palmetto, FL (Project File #49664)
Addendum #3

If you have submitted a bid prior to receiving this addendum, you may request in writing that your original, sealed bid be returned to your firm. All sealed bids will be opened on the date stated:

END OF ADDENDUM #3

Bids will be received at the Manatee County Purchasing Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205 **until 2:00 PM on March 4, 2011.**

Sincerely,

R. C. "Rob" Cuthbert, C.P.M, CPPO
Purchasing Division Manager

Ov/ Attachments
(7 Total pages)

GLOBAL MEP & FIRE ENGINEERING, INC.
Mechanical • Electrical • Plumbing • Fire Protection

8450 Linger Lodge Road, Bradenton, FL 34202
Phone: 941-758-2551 Fax: 941-739-6383

IFB (#1106-OV)
Manatee County Convention Center
HVAC and Control Replacement

February 28, 2011

ADDENDUM #3

The following items represent clarifications, additions, deletions, revisions, and/or modifications to the Contract Documents for the referenced project. This Addendum shall hereinafter be considered full part of the Contract Documents. Receipt of this document must be acknowledged on the Bid Form.

Pertaining to Questions and Clarifications:

Question #1: Manatee County will be contracting an outside vendor to provide new ceiling grid and tiles for the installation during Phase 2, will the County be responsible for protection and/or repair of walls and flooring at the end of the job? Is it the County's intent to have the successful contractor re-paint the work zones a t the end of the project? If so, please provide paint specifications?
Answer #1: Manatee County Government will be completing restoration projects in the interior space for the Convention Meeting Rooms. Any damage to the facility by the awarded Contractor shall be the responsibility of the Contractor to properly restore. Any items/paint information will be provided to Contractor as needed for proper restoration.

Question #2: Due to the accelerated schedule for this project, will the County be responsible for protection and/or repair of exterior landscaping at the end of the job?
Answer #2: Manatee County Government will be completing restoration projects in the interior and exterior of this facility. However, any damage to facility interior of exterior, including landscaping, blacktop, concrete, soffit, roofing, interior finishes, etc. by the awarded Contractor shall be the responsibility of the Contractor to properly restore. Manatee County standards for repair/restoration will have to be followed for proper restoration.

Questions #3: Will groove-end schedule steel piping be allowed for use, in lieu of weld-end schedule 40 steel piping?
Answer #3: Steel Piping shall be as specified in Specifications 15181 – Hydronic Piping.

Question #4: Will there be an accessible spot to locate a large construction dumpster (approx 40' long by 8' wide) on site?
Answer #4: An on-site dumpster will fall under the same clarifications as Staging. Staging is solely the responsibility of the contractor. Contractor shall make any and all arrangements for staging and any required working space. This facility shall remain functional and operational throughout the entirety of this project. The contractor shall make any effort to accommodate the facility full use of facility, grounds, parking, transportation routs, etc.

Question #5: Does the county want to keep the DX refrigerant that is in the existing rooftop units? If so, will County personnel reclaim the refrigerant or will the successful contractor be responsible for reclamation of the refrigerant?
Answer #5: All equipment and by-products become the responsibility of the Contractor. Therefore the Contractor shall be responsible for reclamation of refrigerant and shall be charged with meeting all State and local ordinances governing the reclamation. The County reserves the right to capture all refrigerant enclosed in the closed loop systems, of the County wishes to proceed with reclamation, they will instruct the Contractor. The Contractor shall coordinate with the County for reclamation timing in advance of demolition.

Question #6: Is information for the existing roof mounted equipment available for distribution to the bidders, i.e. manufacture model numbers, lbs of refrigerant, power, etc.
Answer #6: Attached is a report provided to Manatee County outlining the original mechanical systems and equipment submittal.

Clarification #1: Smoking is not allowed in this facility. Smoking is restricted to outside of 50 feet from the building. Smoking is not allowed on the roof of this facility.

Sincerely,

David E. Greene
Senior Project Manager

GLOBAL MEP & FIRE ENGINEERING, INC.
8450 Linger Lodge Road,
Bradenton, FL 34202
(941) 758-2551

carroll air systems inc.

MANUFACTURERS REPRESENTATIVES
WITH LOCAL PARTS AND SERVICE

SUBMITTAL DATA
DATE: 4-10-84

MECHANICAL CONTRACTOR

S. I. Goldman, Inc.
Post Office Box 1156
132 Candace Drive
Maitland, FL 32751

PROJECT

Manatee Civic Center
Highway #301
Palmetto, FL

ARCHITECT/ENGINEER

Ellerbe Architects & Engineers, Inc.
Bloomington, Minnesota

Gentlemen:

We respectfully submit for your approval the following HVAC equipment for the subject project.

ROOFTOP MODULAR HVAC UNITS (AHU-3, 4, 7, 8) (AHU-6A if applicable).

McQUAY MODEL RDS PENTHOUSE PACKAGE CURB MOUNTED ROOFTOP AIR HANDLING UNITS. Each unit is constructed with continuously galvanized steel, phosphatized and painted before construction. Each unit is complete with 8 row evaporator coil, refrigerant reheat coil, 0 - 100% economiser section, electrical power package including weatherproof control panel with hinged access door, supply air fan fuses, contactors and external overloads, non-fused interlocking disconnect switch, 115V fused transformer with 115V terminal strips and receptacle, completely factory wired hi-efficiency Gould E+ supply fan motor. These units include electric heat, initial set of filters, internally spring isolated supply fan and motor assembly, burglar bars in supply and return openings, 2" - 1 1/2# insulation and roof curb shipped knocked down for field assembly. Unit mounted return air temperature and humidity control included with monitoring signals (for remote panel by others.)

Continued.

McQUAY MODEL ALP DUAL-CIRCUIT AIR COOLED CONDENSING UNITS constructed with continuously galvanized steel casing and structural members, phosphatized and painted before assembly. Units are complete with semi-hermetic compressors, copper tube/aluminum fin condenser coils, control circuit transformer, low ambient control to 30°F, starters, safety controls, head pressure control and internal vibration isolators and unit mounted disconnect.

AHU-6

McQUAY CURB MOUNTED PACKAGE ROOFTOP UNIT with similar characteristics of AHU-3, 4, 7, 8. This unit is completely factory assembled and shipped in one piece ready to set on roof curb.

INDOOR AIR HANDLING UNITS
(AHU-1, 2, 5, 9)

McQUAY MODEL LSL CENTRAL STATION AIR HANDLING UNITS complete with continuously galvanized steel cabinet, evaporator coil, hi-efficiency Gould E+ motor with adjustable drive and flat filter section with initial set of throw-away filters.

(CU-1, 2)

McQUAY MODEL ST AIR COOLED CONDENSING UNITS constructed with continuously galvanized steel, phosphatized and painted before construction. Units are complete with hermetic compressors, starters, internal operating and safety controls, head pressure controls, liquid and suction line shut-off valves and low ambient control.

(CU-5, 9)

COMMAND AIRE MODEL ACV AIR COOLED CONDENSING UNITS complete with hermetic compressor, low pressure refrigerant switch, head pressure control, sight glass, filter drier, liquid and suction line shut off valves, solenoid valve and anti-cycle timer.

Continued.

WATER SOURCE HEAT PUMP

McQUAY MODEL HPH WATER COOLED HEAT PUMP with horizontal discharge. This unit is complete with galvanized steel painted cabinet, forward curved fan and two speed motor, hermetic compressor with overload protection, copper and steel coaxial tube heat exchanger, reverse cycle reversing valve, high and low pressure service ports and safety switches, initial throw-away filter, 24V control system, freeze-stat, shutdown relay, random start relay.

MAKE-UP AIR UNIT

ARES MODEL 105C-M3/082C-M3G MAKE-UP AIR UNIT complete with heavily insulated Nichrome heating coils. All controls and terminals are mounted in an easily accessible weather-proofed compartment. Blower section includes a forward curved fan and motor assembly and throw away filter.

ELECTRIC HEATING COILS

BRASCH ELECTRIC SLIP-IN DUCT HEATERS complete with aluminized steel construction, finned tubular heating elements, automatic reset thermal cutout, disconnecting magnetic safety contactors, positive pressure airflow switch, 24V fan interlock relay, non-fused main disconnect switch, bulb type external manual reset secondary thermal cutout, insulated terminal box and stainless steel terminals with high temperature ceramic bushings.

AHU-6 and AHU-6A are both included in this submittal data for the purpose of equipment approval only. Either AHU-6 or AHU-6A will be supplied, not both, when it is determined which option the owners elect to accept.

CERTIFIED DRAWINGS AND CAPACITIES
(See attached data sheets)

By: _____
Wayne R. Brooks

WRB/dmr

PROJECT: Manatee Civic Center

ROOFTOP CONDENSING UNIT CERTIFIED CAPACITIES

UNIT #		CU-3, 4	CU-7	CU-8	CU-6A
SYSTEM #		AHU-3, 4	AHU-7	AHU-8	AHU-6A
AMBIENT O.A. TEMP.	°F	95°	95°	95°	95°
TOTAL CAPACITY	TONS	176.7	100.5	99.0	71.0
SATURATED SUCT. TEMP.		46.8	43.4	43.7	42.8
STEPS CAPACITY		5	4	4	3
FANS	#/HP	3/5	3/5	3/5	8/1.5
COMPRESSORS	#/HP	2/80	2/35;70	2/35;70	2/35;40
VOLTAGE	V/Hz/Ø	460/60/3Ø	460/60/3Ø	460/60/3Ø	460/60/3Ø
McQUAY MODEL #		ALP-159A-D	ALP-106A	ALP-106A	ALP-078A
Weight		7572	5267	5267	4796

PROJECT: Manatee Civic Center

ROOFTOP AIR HANDLING UNIT CERTIFIED CAPACITIES

UNIT #		AHU-3, 4	AHU-7	AHU-8	AHU-6A
SUPPLY AIR	CFM	44,000	22,700	25,500	16,000
FAN					
FAN WHEEL	TYPE/DIA.	A.F./48"	A.F./36"	A.F./36"	FC/27"
TOTAL ST. PR.	IN H_2O	4.06	1.48	2.1	1.74
MOTOR	BHP/HP	37/40 EX	8.1/10 / 15 EX	12.6/15 / 20 EX	8.2/10 / 15 EX
EVAPORATOR COIL					
ROWS/FINS		8/10	5/12	6/8	4/10
ENT. AIR TEMP. - °F	DB/WB	81.5/69	82.3/70.3	82.1/69.4	85.5/73.5
LVG. AIR TEMP. - °F	DB/WB	53.9/53.7	53.7/53.4	54.3/53.8	58.2/57.3
TOTAL CAPACITY	MBH	2120.7	1206.0	1188.0	852.0
FACE VELOCITY	FPM	512	443	491	426
AIR PR. DROP	IN H_2O	.97	.56	.73	.36
REFRIGERANT REHEAT COIL					
ROWS/FINS		2/8	-	2/8	2/8
ENT. AIR TEMP. - °F	DB	53.9	-	54.3	58.2
AIR TEMP. RISE - °F		8.1	-	12.4	13.3
AIR PR. DROP	IN H_2O	.16	-	.19	.16
ELECT. HTG. COIL	KW	210.0	99.3	97.1	69.2
FILTERS					
TYPE		2" T.A.	2" T.A.	2" T.A.	2" T.A.
AIR PR. DROP	IN H_2O	.09	.08	.09	.07
ELECTRIC	V/Hz/Ø	460/60/3Ø	460/60/3Ø	460/60/3Ø	460/60/3Ø
McQUAY MODEL #		RDS-900	RDS-806B	RDS-806B	RDS-804B
UNIT WEIGHT	LBS.	22,010	7943	7097	5301

(63) ea. 16x24x2

(30) 16x25x2
(10) 16x20x2

Shrink

(21) 16x25x2
(7) 16x20x2