GULF BREEZE CONSULTING INC
Consulting Engineers

September 29, 2011

Pinder-Martin Associates Inc
Atten: Mike Martin
1001 N. 12th Ave
Pensacola, FL 32501

RE: West Navarre Intermediate School – 5 Classroom Addition - Addendum Items

Mr. Martin,

Please include the following HVAC, Plumbing and Fire Protection items in your next addendum:

SPECIFICATIONS:

1) Revise Section 15900 paragraph 2.02, section A to read as follows:

A. MANUFACTURERS:

1. AUTOMATIC LOGIC
2. JOHNSON METASYS
3. TRANE TRACE SUMMIT
4. TAC I/A

2) Add the following paragraphs to Section 15005:

1.13 QUALIFICATIONS

A. GENERAL: WHEREVER THE WORD "SUB-CONTRACTOR" OR "FIRM" IS USED IN THESE SUB-PARAGRAPHS, IT SHALL MEAN THE CONTRACTOR/SUB-CONTRACTOR OF RECORD FOR THE INSTALLATIONS USED FOR PROFICIENCY QUALIFICATION.

B. LOCATION: THE FIRM WHICH PERFORMS THE INSTALLATION OF THE WORK UNDER THIS SECTION SHALL BE ONE WHO MAINTAINS AN ESTABLISHED, EXPERIENCED ORGANIZATION WITH A PERMANENT, MANNED OFFICE LOCATED WITHIN FIFTY MILES FROM THE PROJECT SITE.

C. PLUMBING SUB-CONTRACTOR'S EXPERIENCE: THE FIRM'S PROFICIENCY IN THE INSTALLATION AND ADJUSTMENT OF PLUMBING SYSTEMS SHALL HAVE BEEN DEMONSTRATED BY THE SUCCESSFUL PERFORMANCE OF WORK AS SPECIFIED HEREIN ON AT LEAST THREE COMMERCIAL OR INSTITUTIONAL BUILDINGS, EACH CONTAINING A MINIMUM OF 10 PLUMBING FIXTURES. THE FIRM SHALL HAVE BEEN IN BUSINESS PERFORMING SERVICES AS SPECIFIED HEREIN, FOR AT LEAST 3 YEARS.

D. HVAC SUB-CONTRACTOR'S EXPERIENCE: THE HVAC CONTRACTOR'S PROFICIENCY IN THE INSTALLATION, START-UP, ADJUSTMENT, AND MAINTENANCE OF AIR CONDITIONING SYSTEMS SHALL HAVE BEEN DEMONSTRATED BY THE SUCCESSFUL PERFORMANCE OF WORK AS SPECIFIED HEREIN ON AT LEAST THREE SYSTEMS EACH WITH DUCTED AIR DISTRIBUTION AND REFRIGERANT PIPING OF 20 TONS CAPACITY OR GREATER. THE MECHANICAL CONTRACTOR SHALL HAVE INSTRUMENTS, TOOLS, AND EQUIPMENT TO PERFORM THE INSTALLATION, BALANCING, AND MAINTENANCE

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SERVICE SPECIFIED. THE MECHANICAL CONTRACTOR SHALL HAVE BEEN ACTIVE IN PERFORMING SERVICES AS SPECIFIED HEREIN, FOR AT LEAST 5 YEARS.

3) Add the following paragraphs to Section 13930

1.10 QUALIFICATIONS

A. FIRE SPRINKLER SUB-CONTRATOR'S EXPERIENCE: THE FIRE SPRINKLER CONTRACTOR'S PROFICIENCY IN THE INSTALLATION, START-UP, ADJUSTMENT, AND MAINTENANCE OF WET-PIPE FIRE SPRINKLER SYSTEMS SHALL HAVE BEEN DEMONSTRATED BY THE SUCCESSFUL PERFORMANCE OF WORK AS SPECIFIED HEREIN ON AT LEAST THREE SYSTEMS EACH WITH STEEL PIPING OF 100 SPRINKLERS OR GREATER COVERING AT LEAST 10,000 SQUARE FEET OF BUILDING AREA. THE FIRE SPRINKLER CONTRACTOR SHALL HAVE NICET LEVEL III CERTIFIED PERSONNEL, INSTRUMENTS, TOOLS, AND EQUIPMENT TO PERFORM THE INSTALLATION, BALANCING, AND MAINTENANCE SERVICE SPECIFIED. THE FIRE SPRINKLER CONTRACTOR SHALL HAVE BEEN ACTIVE IN PERFORMING SERVICES AS SPECIFIED HEREIN, FOR AT LEAST 5 YEARS.

DRAWINGS:

1) Replace the "CONTROLS REQUIREMENTS" shown on Drawing M0.1 with that shown on the attached sketch.

Respectfully Submitted,
Kenneth L. Gonzalez, Vice-President
PE, LEED AP

CONTROLS REQUIREMENTS

PROVIDE NEW DIRECT DIGITAL CONTROLS SYSTEM PER PROJECT SPECIFICATIONS. REFER TO PLANS FOR NEW DDC PANEL LOCATION. IN ADDITION TO THE REQUIREMENTS LISTED BELOW PROVIDE THE FOLLOWING CONTROLS POINTS:

- DISCHARGE AIR TEMPERATURE FOR DUCTED AIR HANDLERS.
- FAN STATUS (CURRENT SENSOR TYPE) FOR EACH DUCTED AIR HANDLER.
- OUTSIDE AIR TEMPERATURE.
- OUTSIDE AIR HUMIDITY.
- SPACE HUMIDITY.
- SPACE TEMPERATURE.

AHU/HP THERMOSTATS: PROVIDE SPACE TEMPERATURE SENSOR WITH HUMIDISTAT, OVER-RIDE BUTTON AND DIGITAL DISPLAY. TEMPERATURE SETPOINT SHALL BE USER ADJUSTABLE BETWEEN 72°F AND 74°F ± 2°F. COORDINATE SENSOR LOCATIONS WALL MOUNTED ITEMS SHOWN ON ARCHITECTURAL INTERIOR ELEVATIONS. THE COMPRESSOR AND THE ELECTRIC HEAT SHALL BOTH OPERATE AS THE LAST STAGE OF HEAT. THE OVER RIDE BUTTON SHALL TEMPORARILY PLACE THE ASSOCIATED AHU/HP SYSTEM IN OVER-RIDE MODE FOR 2 HOURS.

NIGHT SETBACK: SHALL BE CONTROLLED BY DDC SYSTEM. SET SPACE TEMPERATURE HIGH LIMIT AT 80°F AND LOW LIMIT AT 55°F.

CONTROLS WIRING AND COMPONENTS: DDC SYSTEM CONTRACTOR SHALL PROVIDE CONDUIT, CONNECTORS, CABLE TRAYS, ETC AS REQUIRED TO INSTALL A COMPLETE CONDUIT SYSTEM FROM EACH SENSOR DEVICE OR DDC CONTROL POINT TO THE MAIN DDC CONTROL PANEL.

AHU/HP IN OCCUPIED MODE: THE OUTSIDE AIR FAN SHALL BE ENERGIZED, THE AIR HANDLER FAN SHALL RUN CONTINUOUSLY, AND THE COMPRESSOR(S) SHALL CYCLE STAGES TO MATCH LOAD.

AHU/HP IN UNOCCUPIED MODE: THE OUTSIDE AIR FAN SHALL DE-ENERGIZED, THE AIR HANDLER FAN SHALL RUN INTERMITTENTLY, AND THE COMPRESSOR(S) SHALL CYCLE STAGES TO MATCH LOAD.

AHU/HP IN OVER-RIDE MODE: THE OUTSIDE AIR FAN SHALL BE DE-ENERGIZED, THE AIR HANDLER FAN SHALL RUN CONTINUOUSLY, AND THE COMPRESSOR(S) SHALL CYCLE STAGES TO MATCH LOAD.

DEHUMIDIFICATION MODE: WHEN HUMIDITY IS ABOVE THE DEADBAND MAXIMUM (60%), ADJUSTABLE, THE AIR HANDLER SHALL RUN AT A REDUCED AIRFLOW (APPROX. 70% OF MAX.) AND THE HEAT PUMP SHALL CYCLE STAGES TO MATCH THE COOLING LOAD.

EXHAUST FANS: EXHAUST FANS SHALL OPERATE WHEN UNIT-MOUNTED MOTION SENSORS DETECT AN OCCUPIED CONDITION.

AHU/CU-6: THE DUCTLESS SPLIT SYSTEM FOR THE COMMUNICATIONS ROOM SHALL BE CONTROLLED BY ITS FACTORY SUPPLIED THERMOSTAT. PROVIDE DDC SPACE MOUNTED TEMPERATURE TO MONITOR ROOM TEMPERATURE.

CLIENT: PINDER-MARTIN ASSOCIATES INC. DRAWING TITLE: HVAC LEGENDS, NOTES AND SCHEDULES		GULF BREEZE CONSULTING, INC. 139 East Government Pensacola • FL • 32502 • 850.453.6630 Consulting Engineers		
PROJECT: W. NAVARRE INT. CLASSROOM ADDITION REF. DWG. No.: M0.1	SCALE: NOT TO SCALE			
REVISION: DDC CONTROLS REQUIREMENTS	DATE: 2011-09-29	DRAWN: KLG	DESIGN: KLG	MSK-1