ADDENDUM

Date:	December 28, 2012	**Project:**	Revised Craft State Office Building - Chiller Replacement.
To:	Bidding Contractors	**Project No.:**	11115
		Addendum No.:	1
		CC:	

This addenda is issued by the Architect/Engineer to all known bidders before receipt of proposals. Bidders shall acknowledge the receipt of this Addendum on their bid form and all information and instructions given herein shall become a part of the Contract Documents.

GENERAL

Prior Approvals – If not specifically called out as OR EQUAL under the specified product the following substitutes are acceptable as long as they meet specification; this is not a formal approval that can only be determined at shop drawing/submittal review stage.

The following items were submitted for prior approval but have NOT been approved.	

CLARIFICATIONS

CHANGES TO PROJECT MANUAL

00 11 16 – Notice To Bidders

1. The bid shall be moved to 2:00 PM CST on Wednesday, January 16th, 2013.

00 72 00 – General Conditions

1. Paragraph 1.06.A shall read " All work on which shop drawings are required must be in strict accordance with such drawings when approved and no work for which shop drawings are required is to be started until after the approval of said drawings. Each shop drawing shall be submitted to the Consultant or Architect/Engineer in the quantity specified by the Consultant or Architect/Engineer. Sufficient quantity shall be submitted to provide three sets of all approved submittals to the Owner."

00 73 00 – Special Conditions

1. Insert the following paragraph.

1.11 SHOP DRAWINGS AND OTHER PROJECT DOCUMENTATION

A. All shop drawings and other submittals/project documentation will be coordinated using "Submittal Exchange" or a similar online project management tool. Costs for this service will be paid by the owner.

23 09 90 – Temperature Controls

1. Add the following sentence to the end of paragraph 1.02.B "The entire control system must be accessible from the internet by a secure page with varying levels of control (read only, read and modify set points,…) being given to personnel as designated by the owner."
2. Paragraph 1.02.C shall read " The direct digital control system shall monitor and control all points as described in the sequence of operation for monitoring, control and alarms. All mechanical equipment controlled through the use of direct digital control.
3. Delete Paragraph 1.12.A

CHANGES TO PROJECT DRAWINGS

All work shall be in accordance with the terms, stipulations, and conditions of the original contract.

Mechanical

1. Sheet M1.1

A. 3RD Floor Mechanical Room – Phase 1 and Phase 2

1) Add note 19, it shall read "Re-insulate all hot water piping in the 3rd floor mechanical room per the schedule." Note 19 shall point to the existing piping to the existing MAU.
2) Add note 20, it shall read "Remove existing bypass and check valve, install new bypass with new check valve and gate valve."
3) See revised floor plan drawing attached.

2. Sheet M2.1

B. Chilled Water System Detail

4) The cooling tower bypass valve shall be a 3-way valve or (2) 2-way valves.
5) Mechanical contractor to install water meter (provided by chemical contactor) in make-up feed line to cooling tower inside and all other valving/ports (provided by chemical contactor) required.

3. Sheet M2.2

C. Sheet Notes, Key Notes

1) Note #1 & #9 shall read "INSTALL BTU METER IN GAS PIPING. INSTALL PER MANUFACTURERS RECOMMENDATIONS. METER PROVIDED BY CONTROLS CONTRACTOR INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE STRAIGHT RUN OF PIPE MINIMUM 15 TIMES PIPE DIAMETER UP STREAM OF METER (or) AS PER THE MANUFACTURER RECOMMENDATION AND MINIMUM 5 TIMES PIPE DIAMETER DOWN STREAM OF METER (or) AS PER THE MANUFACTURER RECOMMENDATION. METER TO BE INSTALLED UNDER ALTERNATE M-1".
2) Note#5, delete entirely.
3) Add note#6 to BL-3.

4. Sheet M3.0

D. Hydronic piping cleaning and chemical treatment

1) Add line 6 to read "No glycol is required in the hot water or chilled water systems. Inhibitor shall be used as recommended by the chemical supplier and installed as soon as the system is filled. The system shall not be filled without treatment. All chemical treatment shall be as recommended by the chemical supplier, the mechanical contractor shall install all meters, valving, and taps provided by the chemical supplier. Chemical treatment and equipment shall be provided for the hot water system, chilled water system and condenser water system."

E. Pipe Material and Insulation Schedule

2) Add note 6 to read "Type l copper with brazed connections or schedule 40 black steel pipe with grooved

connections (must be supported within 12" on each side of connection) are an acceptable piping alternate." Note 6 shall be applied to chilled water piping, hot water piping and condenser water piping.

5. **Sheet M3.1**
   F. Controls Schematic
   1) The 3rd floor MAU sequence shall read as follows:
   - New 2" 3-way control valve shall modulate to maintain supply air discharge set point (provide sensor) at 68-72F (adj) with no conditioning done in-between this set points.
   - New fresh air damper actuator shall open during occupied hours and close during unoccupied hours. fresh air damper shall close if a new non averaging freeze stat in the unit downstream of the heating coil sees 38F (adj) air.
   - Existing pump shall be normally off and turn on when the outside air temp reaches 38F (adj).
   - If supply air temperature is 38F or less, the unit shall shut down, OA damper close and an alarm be sent.

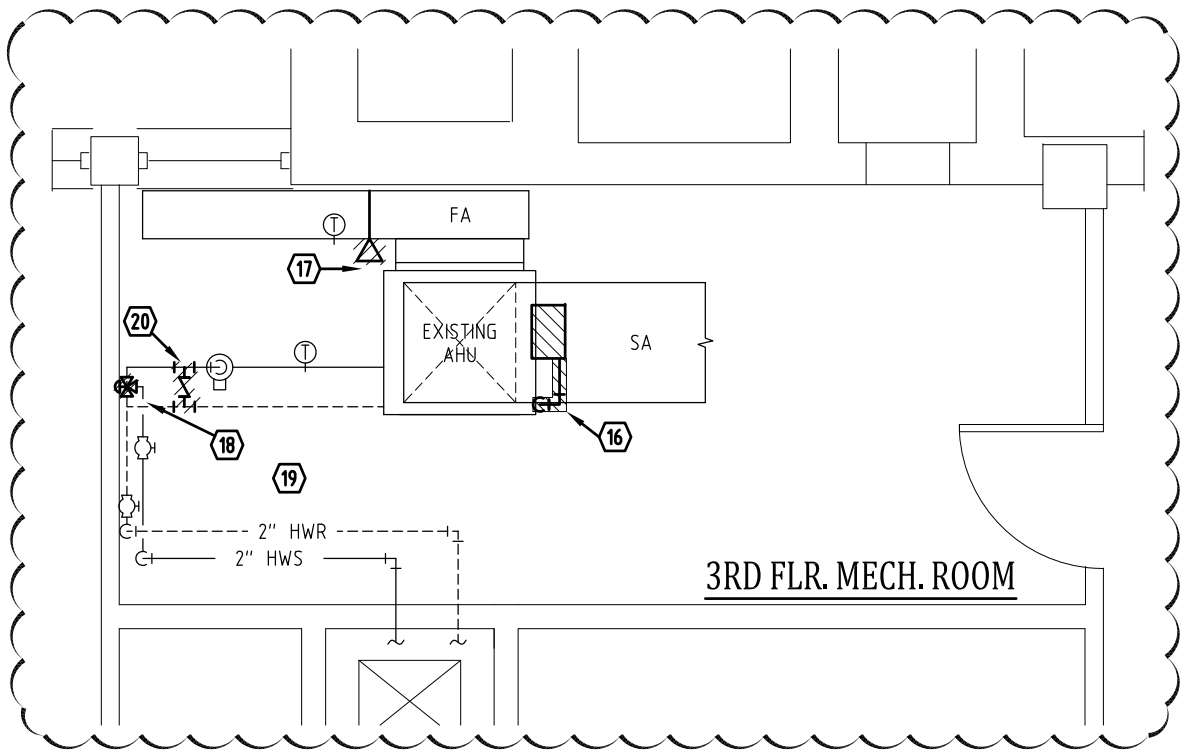
6. **Sheet M3.2**
   G. Controls Schematic
   1) The cooling tower bypass valve shall be a 3-way valve or (2) 2-way valves.
   2) Add bullet under Heating Hot Water Pumps (P-1, P-2) to read "Pumps minimum setting shall be 20 Hz (adj) and coordinated with the engineer and manufacturer prior to start-up."

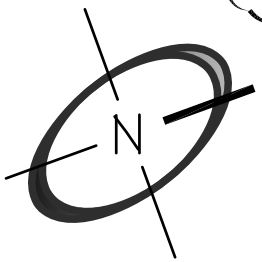
Electrical

1. **Sheet E3.2S**
   A. Electrical One-Line Diagram
   1) Provide (3) spare 1200A. fuses for the Main Service Disconnect (MSD). Fuses for this application shall be Class L, fast acting.

By: Kyle Wilkinson and Jeff Johnson

Date: 12/28/12





3RD FLOOR MECHANICAL ROOM – PHASE 1 & PHASE 2

SCALE: 1/4"=1'-0"

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ADVANCED ENGINEERING SYSTEMS

PROJECT: Craft State Office Building

PROJECT #: 11115

DATE: 12/28/12

DESCRIPTION: ADDENDUM #1

SHEET:

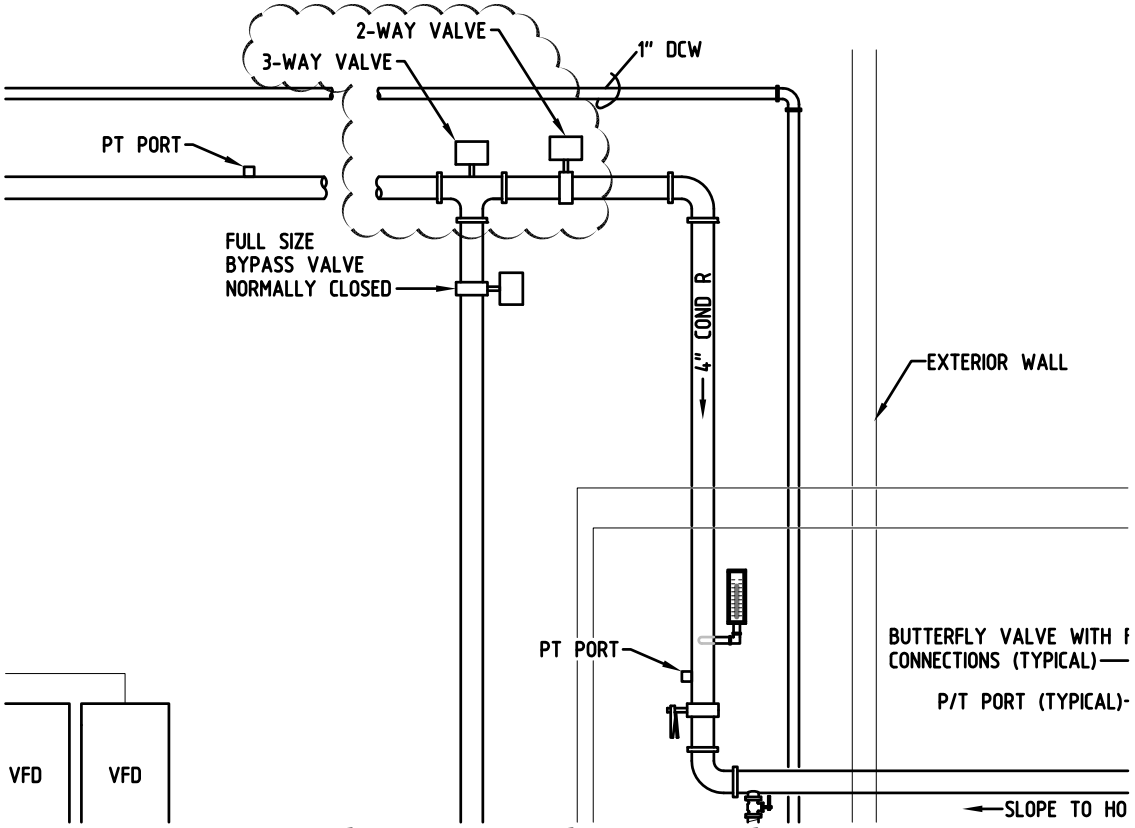
M1.1

NUMBER: 1 of 1

7. COORDINATE PENETRATIONS THROUGH WALL WITH GENERAL CONTRACTOR.

8. PROVIDE TEMPORARY SHEET METAL COVERS OVER ELECTRICAL PANELS, VFDs, DISCONNECTS AS REQUIRED DURING PHASE 1 WHILE EXISTING HEATING SYSTEM IS STILL OPERATIONAL.

9. PROVIDE ONE (1) 3-WAY VALVE OF TWO (2) 2-WAY VALVES IN RETURN PIPING AND BY-PASS PIPING TO COOLING TOWER.



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CHILLED WATER SYSTEM DETAIL

SCALE: NONE

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AES ADVANCED ENGINEERING SYSTEMS

PROJECT: Craft State Office Building

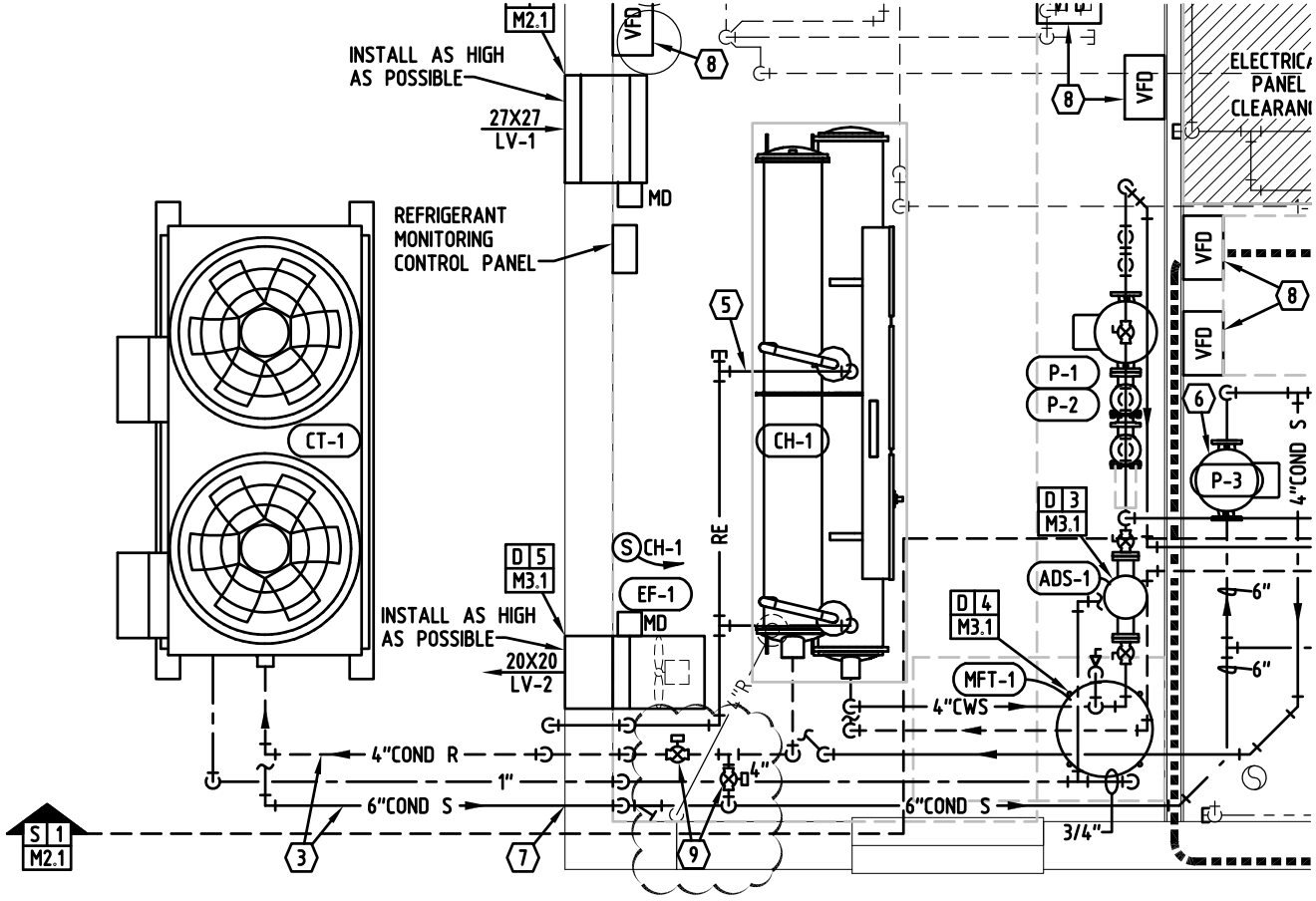
PROJECT #: 11115

DATE: 12/28/12

DESCRIPTION: ADDENDUM #1

SHEET: M2.1

NUMBER: 1 of 2



BUILDING #3 MECHANICAL PLAN - PHASE I

SCALE: 1/4"=1'-0"

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AES ADVANCED ENGINEERING SYSTEMS

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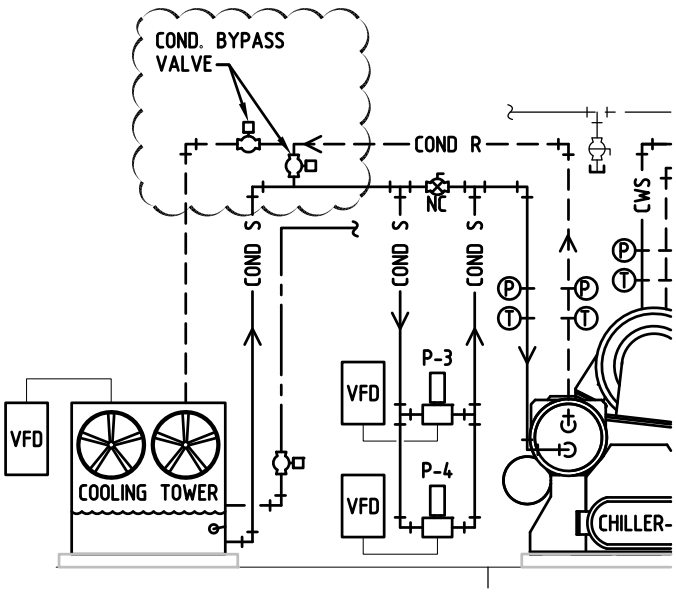
DATE: 12/28/12

DESCRIPTION: ADDENDUM #1

SHEET: **M2.1**

NUMBER: 2 of 2



D | 4
M4.0

CONTROLS SCHEMATIC

SCALE: NONE

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ADVANCED ENGINEERING SYSTEMS

PROJECT: Craft State Office Building
PROJECT #: 11115
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DESCRIPTION: ADDENDUM #1

SHEET: M3.2
NUMBER: 1 of 1