



PROCUREMENT SERVICES SECTION  
13450 – 104 Avenue, Surrey BC V3T 1V8  
Tel: 604-590-7274

E-mail: [purchasing@surrey.ca](mailto:purchasing@surrey.ca)

**ADDENDUM #2**

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REQUEST FOR QUOTATIONS (RFQ) NO.: 1220-040-2019-098  
TITLE: SUPPLY, DELIVERY AND INSTALLATION OF HVAC  
REPLACEMENT – SURREY ARTS CENTRE  
ADDENDUM ISSUE DATE: December 5, 2019  
CLOSING DATE: prefer to receive Quotations on or before:  
December 12, 2019

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**INFORMATION FOR CONTRACTORS**

This Addendum is issued to provide additional information to the RFQ for the above named project, to the extent referenced and shall become a part thereof. No consideration will be allowed for extras due to the Contractor not being familiar with this Addendum. This Addendum No. 2 contains 11 pages in total.

**REVISIONS:**

- 1) Contractors are to refer to the attached Addendum No. M1 for revisions to the Mechanical Specifications and Drawings as prepared by the Consultant dated December 04, 2019.
- 2) Contractors are to refer to the attached Addendum No. E1 for revisions to the Electrical Specifications and Drawings as prepared by the Consultant dated December 05, 2019.

**END OF ADDENDUM #2**

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All Addenda will become part of the RFQ Documents.

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TO:	City of Surrey	PAGE:	1 of 2
		DATE:	December 04, 2019
		PROJECT NO.:	19-172
		CONTRACT:	Mechanical

ATTN:	Farhad Alizadeh	DISTRIBUTION:	
		Prime Consultant	(x)
		Gen. Contractor	(x)
PROJECT:	Surrey Art Center HVAC Replacement	Mech. Contractor	(x)
	13750 88 <sup>th</sup> Ave	Elect. Contractor	( )
	Surrey BC	Resident Eng.	( )
		File	(x)
		Other	( )

ISSUED BY Lovejit Buttar

TO ALL BIDDERS OF RECORD

**1. GENERAL**

- 1.1 This addendum is issued pre "RFQ" Proposal closing to provide for certain revisions as noted herein.
- 1.2 All such revisions will become part of the Work and the effects shall be included in the Proposal price.
- 1.3 All work shall be performed in accordance with the Contract Documents.

**2. AHU-2 REVISION**

- 2.1 AHU-2 model is to be revised to FEW-224-COR. AHU-2 is to be provided complete with:
  - 16 ga. satin coated galvanized sheet metal casing c/w 2", 3lb.ft<sup>3</sup> semi ridged insulation
  - 16 ga.. satin coated galvanized sheet metal floor
  - Air side access doors – hinged c/w lever lock handles
  - Service doors (electrical & compressors) – hinged c/w lever lock handles
  - Supply motor and fan to have seismic spring vibration isolation c/w extended grease lines – both to exterior casing and pillow block bearings
  - Drives to have a 1.0 service factor
  - Alternate tube circuited DX coil c/w hot gas bypass on lead compressor and stainless steel drain pan

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DATE:	December 04, 2019	PROJECT NO.:	19-172
PAGE:	2 of 2	CONTRACT NO.:	Mechanical

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- Piping vestibule for hot water coil
- Filter gauge 0-2 in-wc.

### **3. MISCELLANEOUS**

- 3.1 Commissioning of new equipment is to be removed from the contractor's scope of work.
- 3.2 Contractor to allow for the replacement of AHU-1 & AHU-3 spring isolators with new.
- 3.3 Chemical treatment provider is to be: Pace Chemical's Ltd.
- 3.4 Base building roofing contractor is: Marine Roofing. Alternate RCABC certified roofing contractors are acceptable.
- 3.5 Contractor to allow for the re/re of one additional sprinkler head in mechanical room.
- 3.6 Heating water line serving AHU-1 & AHU-3 are to be provided a by-pass complete with three-way control valve.
- 3.7 Refer to the attached drawings

### **4. AHU-3 OUTDOOR UNIT**

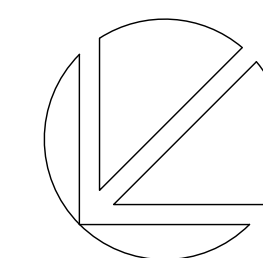
- 4.1 AHU-3 is to be provided three 5 ton outdoor units in lieu of two 7.5 ton units. New outdoor units are to be installed in existing cage in lieu of the roof, allow for the extension of existing house keeping pad to suit new outdoor unit installation
- 4.2 New refrigerant lines are to be routed below ground to the mechanical room. Underground refrigerant lines are to be routed through plastic pipes for protection
- 4.3 Allow for water proofing at the refrigerant line's penetration into the building.
- 4.4 AHU-1 is to be provided a cooling coil complete with 3 evenly sized circuits.
- 4.5 Refer to the attached drawings.

**-END-**



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Project:  
SURREY ART CENTRE  
ROOF TOP UNITS  
AND AIR HANDLING  
UNITS REPLACEMENT  
13750 88TH AVE  
SURREY, BC



STAMP/SEAL:

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Revisions

NO.	ISSUE	DATE
4	ISSUED FOR ADD-M1	2019/12/04
3	ISSUED FOR TENDER	2019/11/26
2	ISSUED FOR FINAL REVIEW	2019/11/22
1	ISSUED FOR REVIEW	2019/10/21

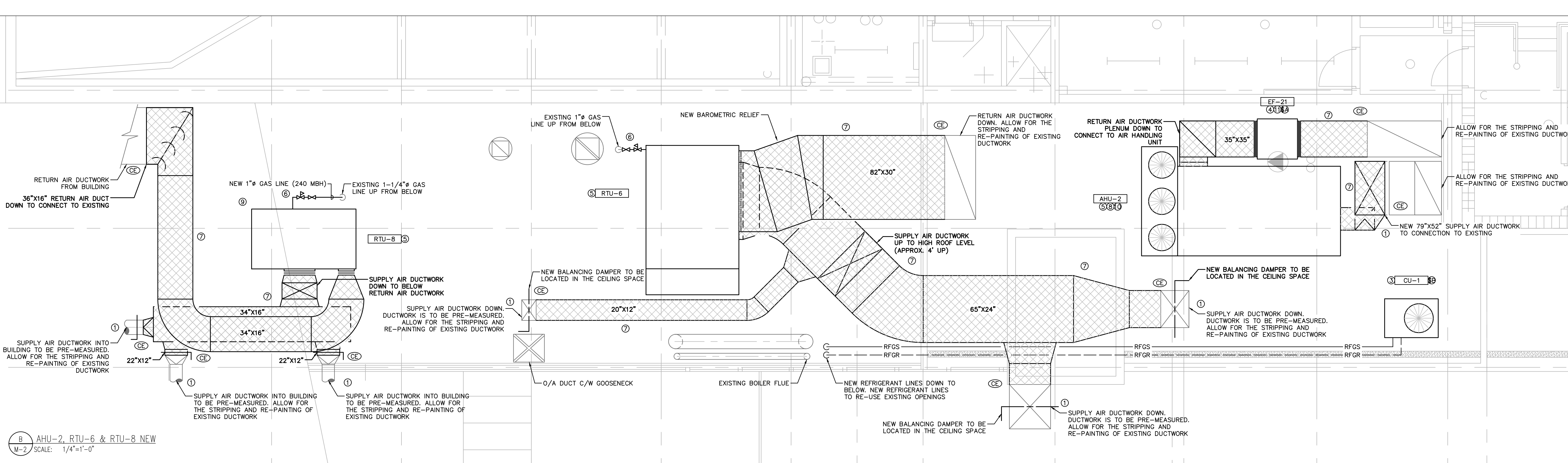
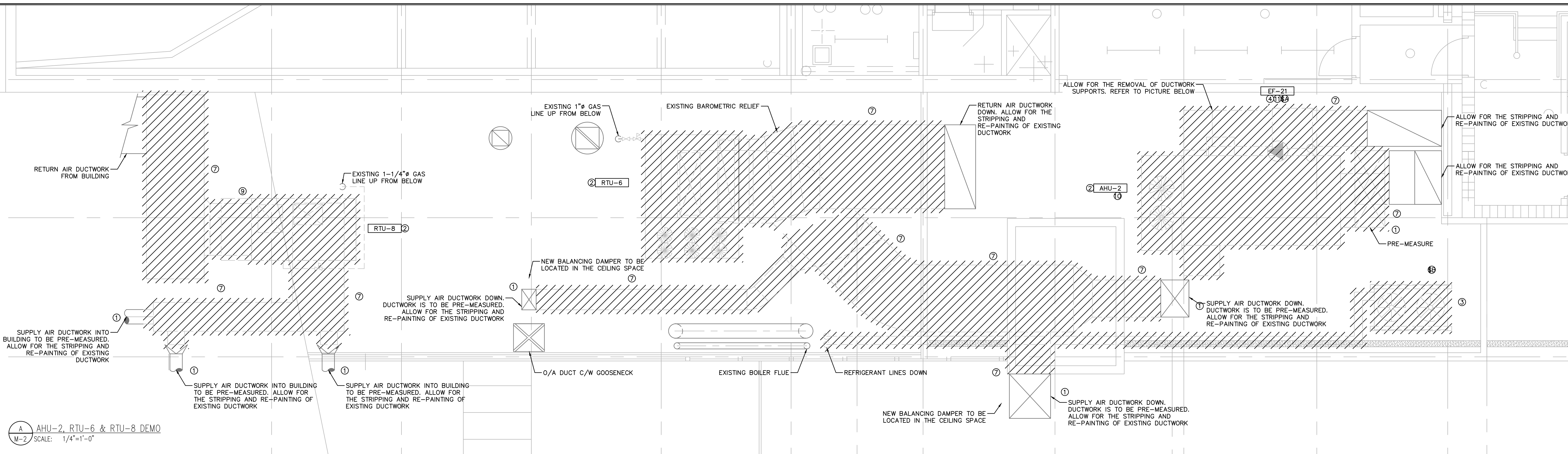
Sheet Info.

DATE:	2019/09/23
PROJECT:	19-172
SCALE:	AS NOTED
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CHECKED:	BY
APPROVED:	BY

Title

AHU-2, RTU-6 &  
RTU-8 REPLACEMENT  
Sheet

M-2



**SEPARATE PRICE**

15 CONTRACTOR TO PROVIDE A SEPARATE PRICE FOR THE REPLACEMENT OF EXISTING RETURN AIR FAN (EF-21) WITH NEW LIKE FOR LIKE. NEW FAN IS TO BE GREENHECK B50-240 (1 HP, 1725 RPM, 575V/3PH/60HZ). EXISTING CONTROLS SEQUENCE IS TO BE MAINTAINED.

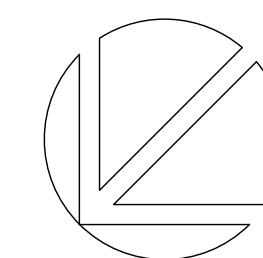
16 CONTRACTOR TO PROVIDE A SEPARATE PRICE FOR THE PROVISION OF A 15 TON CONDENSING UNIT (CU-1) IN LIEU OF A 10 TON UNIT. CONTRACTOR TO ALLOW FOR THE PROVISION OF NEW SLEEPERS AS REQUIRED. CONTRACTOR TO ALLOW FOR STRUCTURAL REVIEW AND DESIGN AS REQUIRED (WEIGHT OF EXISTING UNIT AND NEW 15 TON UNIT ARE COMPARABLE).

- CONSTRUCTION NOTES**
- CONTRACTOR TO RETAIN APPROVED BALANCING AGENT TO PRE-MEASURE AIR FLOWS TO SUPPLY AIR AND RETURN AIR DUCTWORK PRIOR TO THE START OF WORK. BALANCING AGENT IS TO RE-ESTABLISH MEASURED AIR FLOWS DURING FINAL BALANCING OF SYSTEM. PRE-MEASURED AND FINAL MEASURED AIR VALUES ARE TO BE INCLUDED IN FINAL BALANCING REPORT.
  - EXISTING ROOF TOP UNITS AND AIR HANDLING UNIT ARE TO BE REMOVED AND REPLACED AS SHOWN. EXISTING ROOF CURB TO BE RE-USED FOR NEW ROOF TOP UNIT.
  - EXISTING CONDENSING UNIT AND ASSOCIATED SLEEPERS AND REFRIGERANT LINES HANGERS ARE TO BE RE-USED FOR NEW REFRIGERANT LINES. NEW REFRIGERANT LINES ARE TO BE INSULATED AND PROVIDED ALUMINUM CLADDING. STRUCTURAL TO REVIEW LOCATION AND WEIGHT OF NEW CONDENSING UNITS.
  - ALLOW FOR THE REMOVING AND RE-INSTALLING EXISTING RETURN AIR FAN. ALLOW FOR RECONNECTION TO CONTROLS. ALLOW FOR NEW DUCTWORK AS SHOWN.
  - PROVIDE NEW ROOF TOP UNITS AND AIR HANDLING UNITS AS SHOWN. CONTRACTOR TO ALLOW FOR THE MODIFICATION OF DUCTWORK TO SUIT NEW UNITS.
  - ALLOW FOR THE RECONNECTION OF THE GAS LINE. ALLOW FOR THE REPLACEMENT OF GAS PRV AND ISOLATION VALVE.
  - ALLOW FOR THE REPLACEMENT OF EXISTING SUPPLY AIR AND RETURN DUCTWORK WITH NEW AS SHOWN. NEW DUCTWORK IS TO BE WEATHER PROOFED COMPLETE WITH FLANGED CONNECTION AND 2" THICK DUCT LINER. DUCT LINER TO BE PROVIDED PERFORATED SHEET METAL. ALL NEW DUCTWORK IS TO BE PAINTED.
  - CONTRACTOR TO PRE-MEASURE HEATING WATER FLOW RATES PRIOR TO THE START OF WORK. HEATING WATER FLOW RATES ARE TO BE RE-ESTABLISHED AT END OF JOB. PRE-MEASURED FLOW RATES AND FINAL MEASURED FLOW RATES ARE TO BE INCLUDED IN FINAL WATER BALANCING REPORT.
  - RTU-8'S ROOF CURB IS TO BE REMOVED AND REPLACED WITH NEW. CONTRACTOR TO ALLOW FOR ALL ASSOCIATED ROOFING WORK. CONTRACTOR TO RETAIN BASE BUILDING APPROVED ROOFING CONTRACTOR FOR ALL ASSOCIATED WORK. STRUCTURAL TO REVIEW.
  - CONTRACTOR TO ALLOW FOR INSPECTION OF EXISTING ROOF CURB BY STRUCTURAL ENGINEER. ENGINEER'S REPORT TO BE PROVIDED TO OWNER AND MECHANICAL ENGINEER.
  - EXISTING DUCTWORK SUPPORTS FOR AHU-2 ARE TO BE REMOVED AND REPLACED WITH NEW SUPPORTS. NEW SUPPORTS TO BE MIFAB DSAW, WIDEBODY SUPPORTS.



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- CONSTRUCTION NOTES**
- ① EXISTING ROOF TOP UNIT IS TO BE REMOVED AND REPLACED AS SHOWN. EXISTING ROOF CURB TO BE RE-USED FOR NEW ROOF TOP UNIT.
  - ② PROVIDE NEW ROOF TOP UNIT AS SHOWN. ALLOW FOR THE INSTALLATION OF FACTORY SUPPLIED ADAPTER PANEL. CONTRACTOR TO ALLOW FOR THE MODIFICATION OF DUCTWORK TO SUIT NEW UNITS.
  - ③ ALLOW FOR THE RECONNECTION OF THE GAS LINE. ALLOW FOR THE REPLACEMENT OF GAS PRV AND ISOLATION VALVE.
  - ④ CONTRACTOR TO ALLOW FOR INSPECTION OF EXISTING ROOF CURB BY STRUCTURAL ENGINEER. ENGINEER'S REPORT TO BE PROVIDED TO OWNER AND MECHANICAL ENGINEER.

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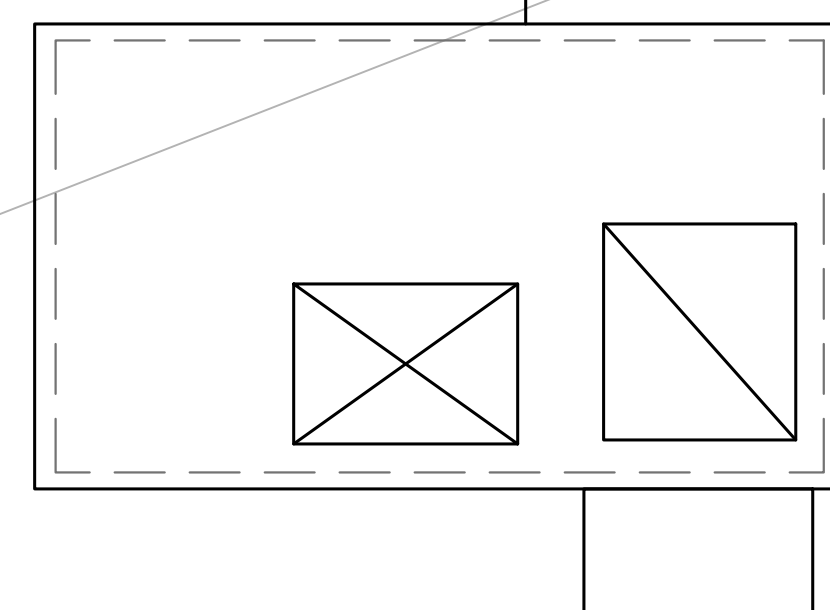
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	Title

RTU-7 REPLACEMENT  
Sheet

M-3

EXISTING 3/4"φ GAS  
LINE UP FROM BELOW

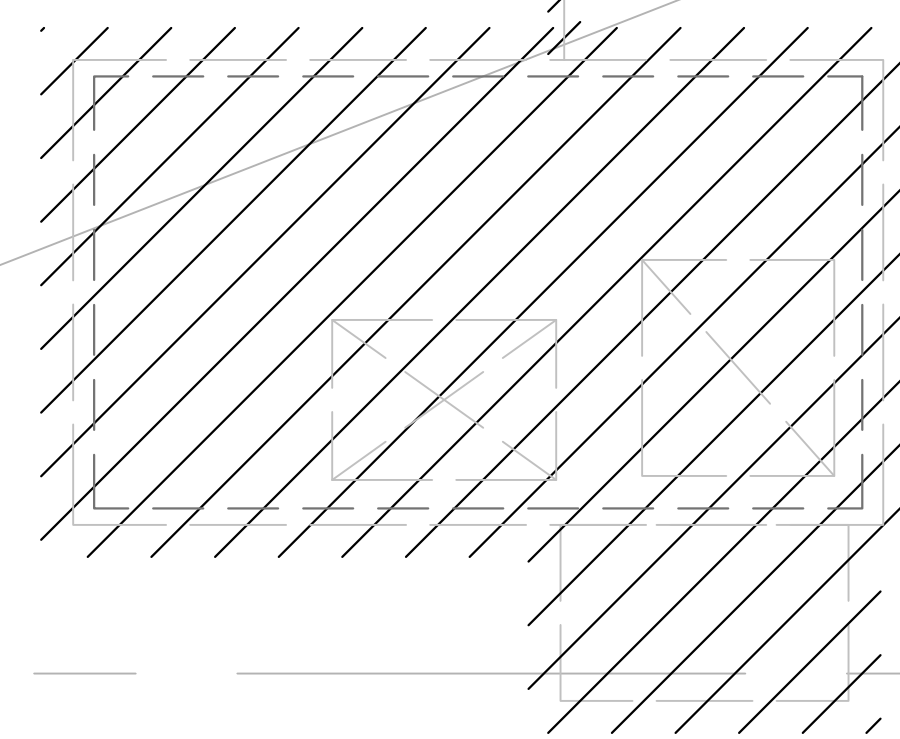
RTU-7  
②④



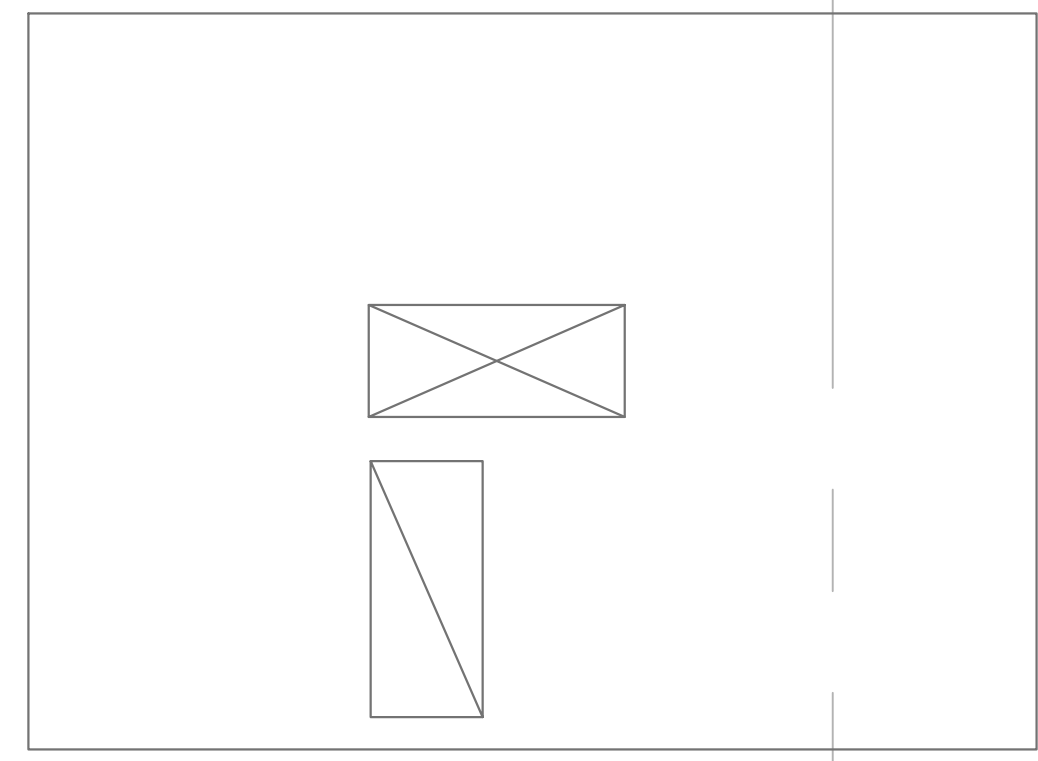
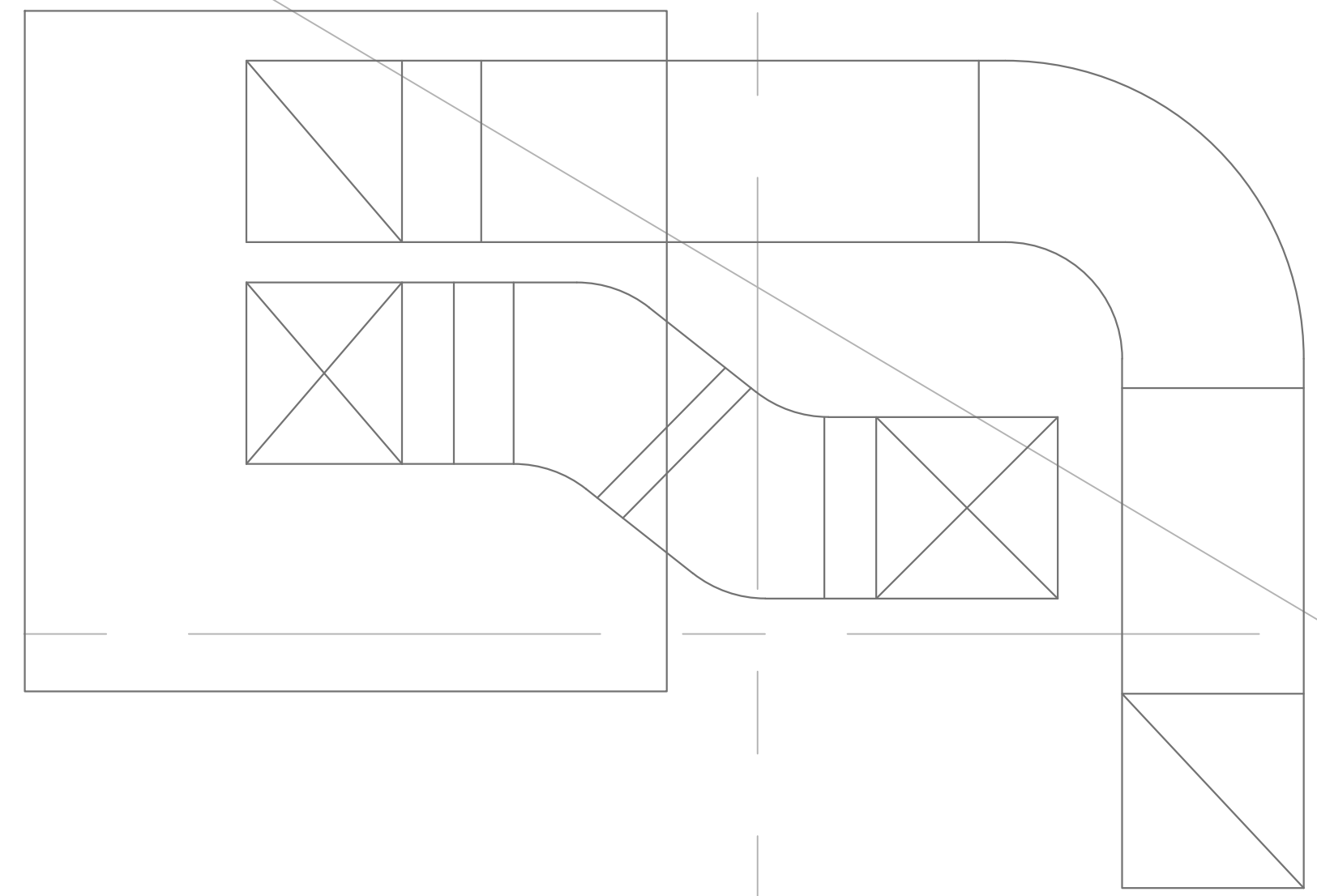
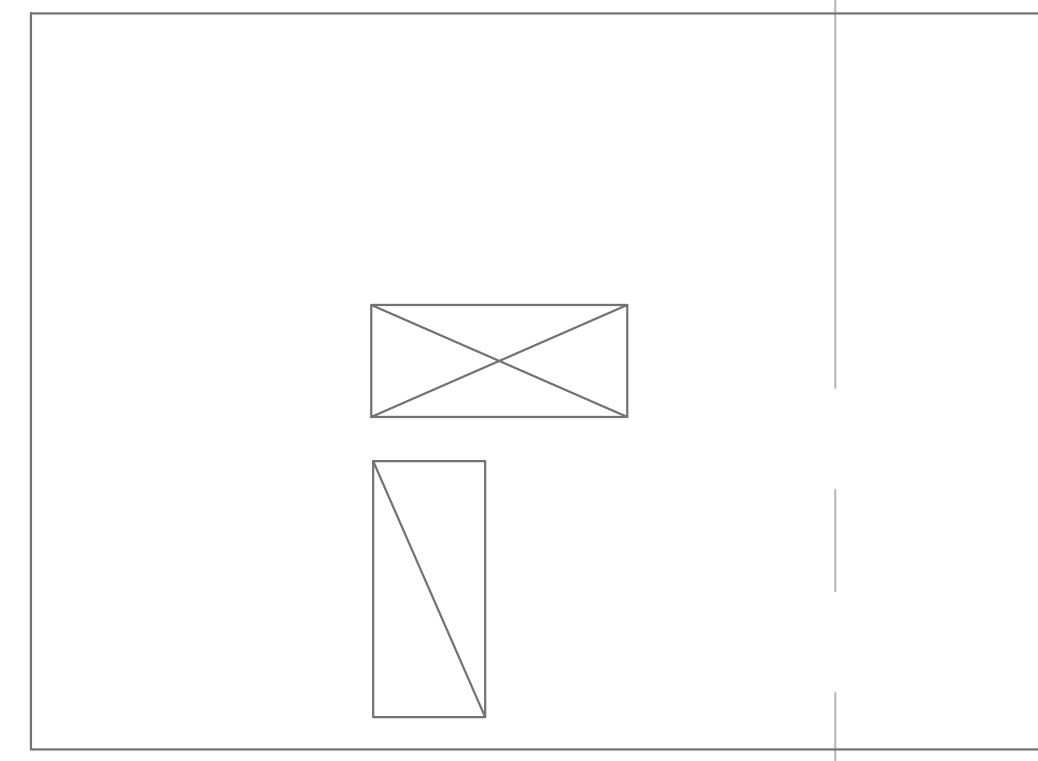
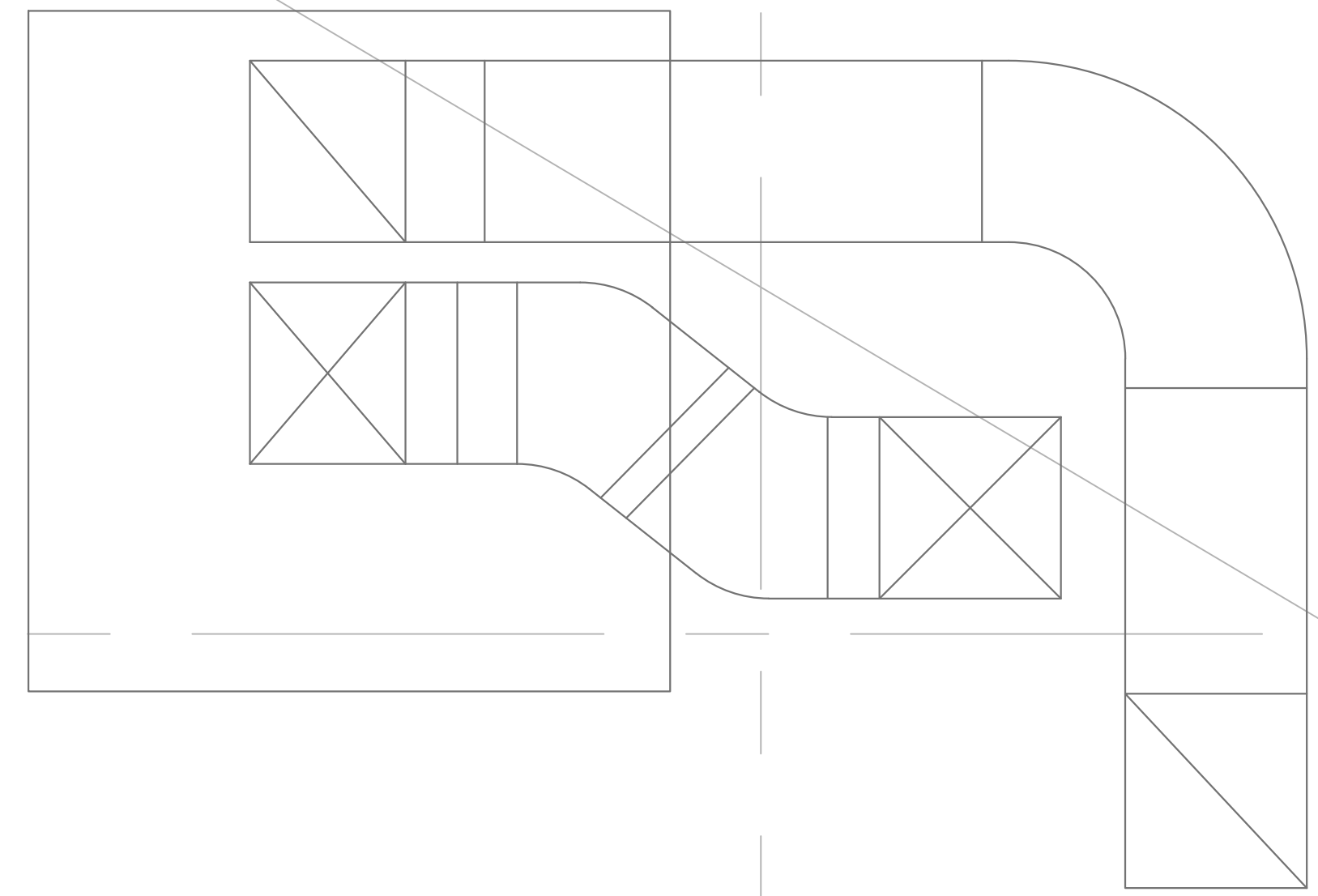
B RTU-7 NEW  
M-3 SCALE: 1/2"=1'-0"

EXISTING 3/4"φ GAS  
LINE UP FROM BELOW

RTU-7  
①④

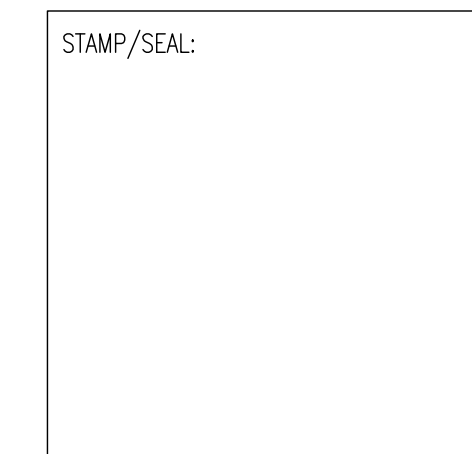
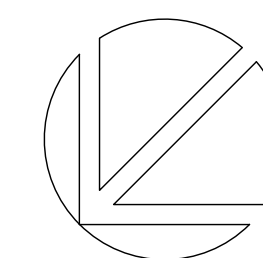


A RTU-7 DEMO  
M-3 SCALE: 1/2"=1'-0"



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Revisions

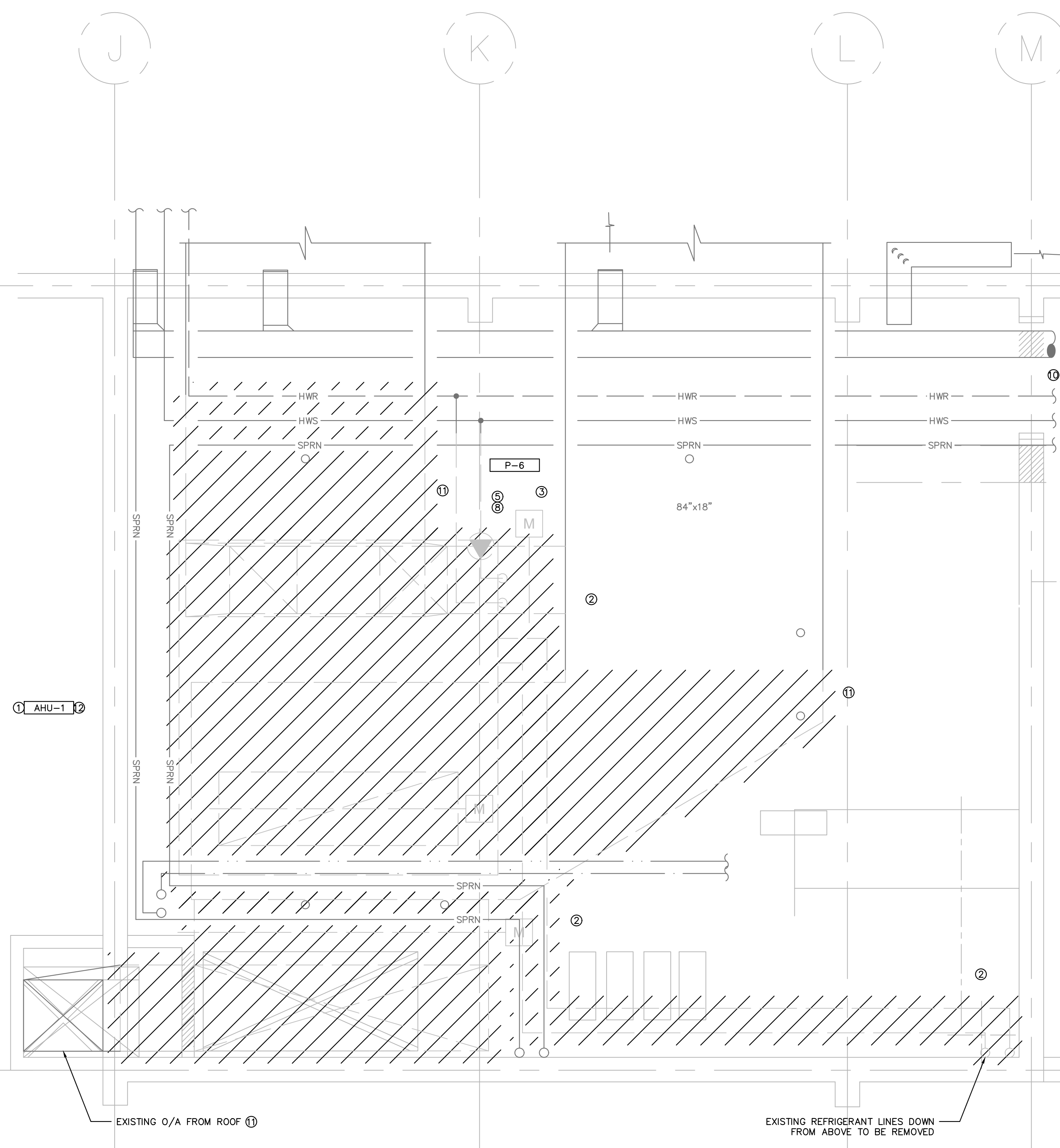
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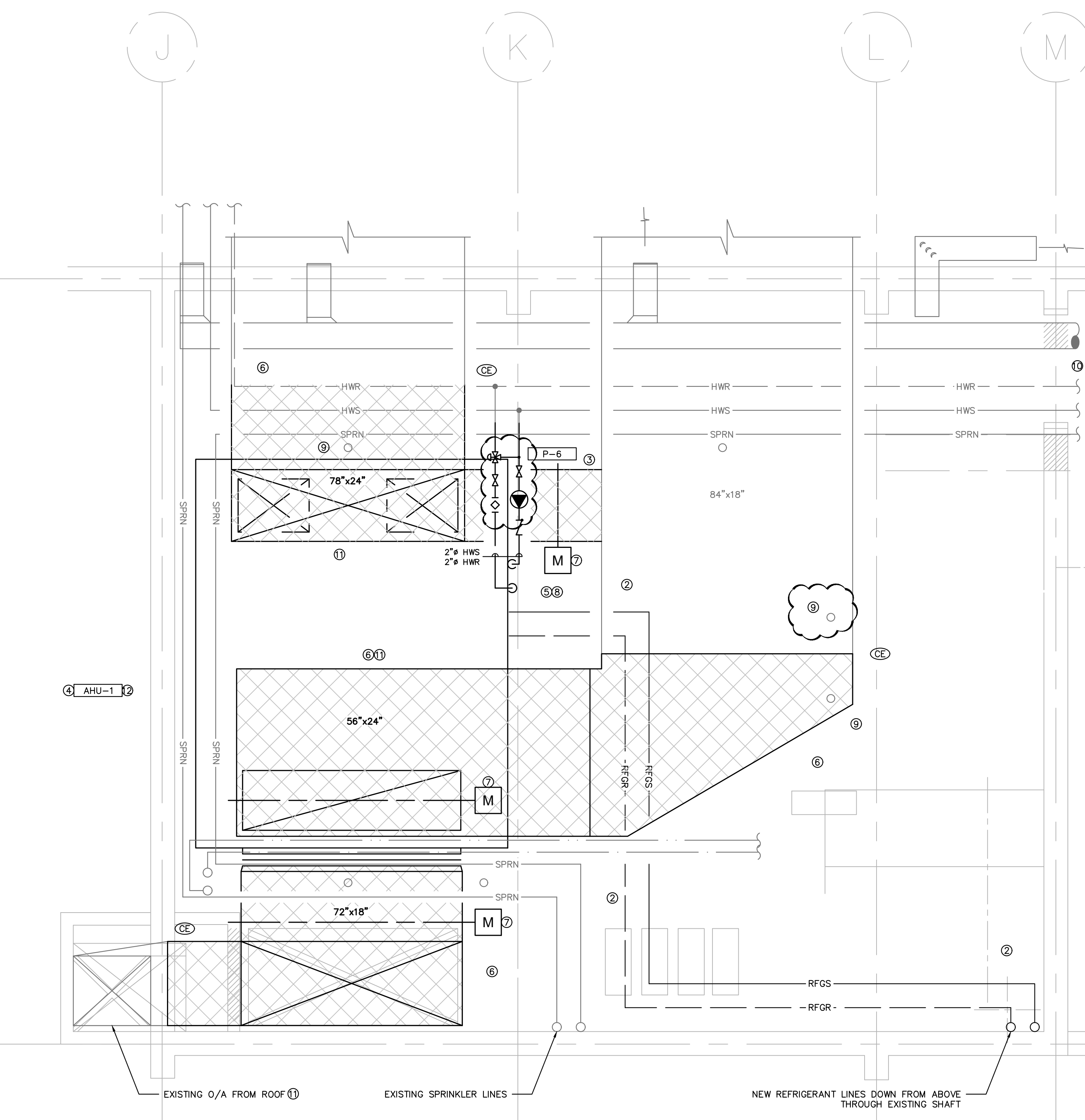
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AHU-1 REPLACEMENT  
Sheet

M-4



A AHU-1 DEMO  
M-4 SCALE: 1/2"=1'-0"



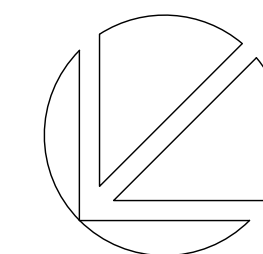
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M-4 SCALE: 1/2"=1'-0"

**CONSTRUCTION NOTES**

- ① EXISTING AIR HANDLING UNIT IS TO BE REMOVED AND REPLACED AS SHOWN.
- ② EXISTING REFRIGERANT LINES ARE TO BE REMOVED AND REPLACED AS SHOWN. ALLOW FOR THE INSULATING OF NEW REFRIGERANT LINES.
- ③ EXISTING BYPASS IS TO BE REMOVED AND REPLACED COMPLETE WITH NEW MOTORIZED DAMPER AS SHOWN.
- ④ PROVIDE NEW AIR HANDLING UNITS AS SHOWN. STRUCTURAL TO REVIEW WEIGHTS AND LOCATION OF NEW AIR HANDLING UNIT.
- ⑤ ALLOW FOR MODIFICATION OF HEATING WATER SUPPLY AND RETURN LINES TO SUIT NEW HEATING COIL. ALLOW FOR REPLACEMENT OF HEATING WATER PUMP (BELL & GOSSETT PL-30). ALLOW FOR THE INSULATING OF NEW HEATING WATER LINES.
- ⑥ ALLOW FOR THE MODIFICATION OF SUPPLY AIR, RETURN AND O/A DUCTWORK. NEW DUCTWORK IS TO BE COMPLETE WITH 1" THICK DUCT LINER COMPLETE WITH PERFORATED SHEET METAL.
- ⑦ CONTRACTOR TO ALLOW FOR NEW MOTORIZED DAMPER. NEW DAMPERS ARE TO BE RE-CONNECTED TO DDC SYSTEM. EXISTING CONTROLS SEQUENCE IS TO BE MAINTAINED. CONTROLS CONTRACTOR TO PROVIDE AS-BUILT CONTROLS SEQUENCE AS PART OF THE CLOSE OUT DOCUMENTS AT THE END OF THE JOB.
- ⑧ CONTRACTOR TO PRE-MEASURE HEATING WATER FLOW RATES PRIOR TO THE START OF WORK. HEATING WATER FLOW RATES ARE TO BE RE-ESTABLISHED AT END OF JOB. PRE-MEASURED FLOW RATES AND FINAL MEASURED FLOW RATES ARE TO BE INCLUDED IN FINAL WATER BALANCING REPORT.
- ⑨ ALLOW FOR THE RE/RE OF EXISTING SPRINKLER HEADS TO ALLOW FOR THE INSTALLATION OF NEW DUCTWORK.
- ⑩ CONTRACTOR TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF DOOR FRAME TO ALLOW FOR THE FITMENT OF DISASSEMBLED AIR HANDLING UNITS COMPONENTS.
- ⑪ CONTRACTOR TO RETAIN APPROVED BALANCING AGENT TO PRE-MEASURE AIR FLOWS TO SUPPLY AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK PRIOR TO THE START OF WORK. BALANCING AGENT IS TO RE-ESTABLISH MEASURED AIR FLOWS DURING FINAL BALANCING OF SYSTEM. PRE-MEASURED AND FINAL MEASURED AIR VALUES ARE TO BE INCLUDED IN FINAL BALANCING REPORT.
- ⑫ CONTRACTOR TO ALLOW FOR THE REPLACEMENTS OF EXISTING SPRING ISOLATORS WITH NEW.

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Revisions

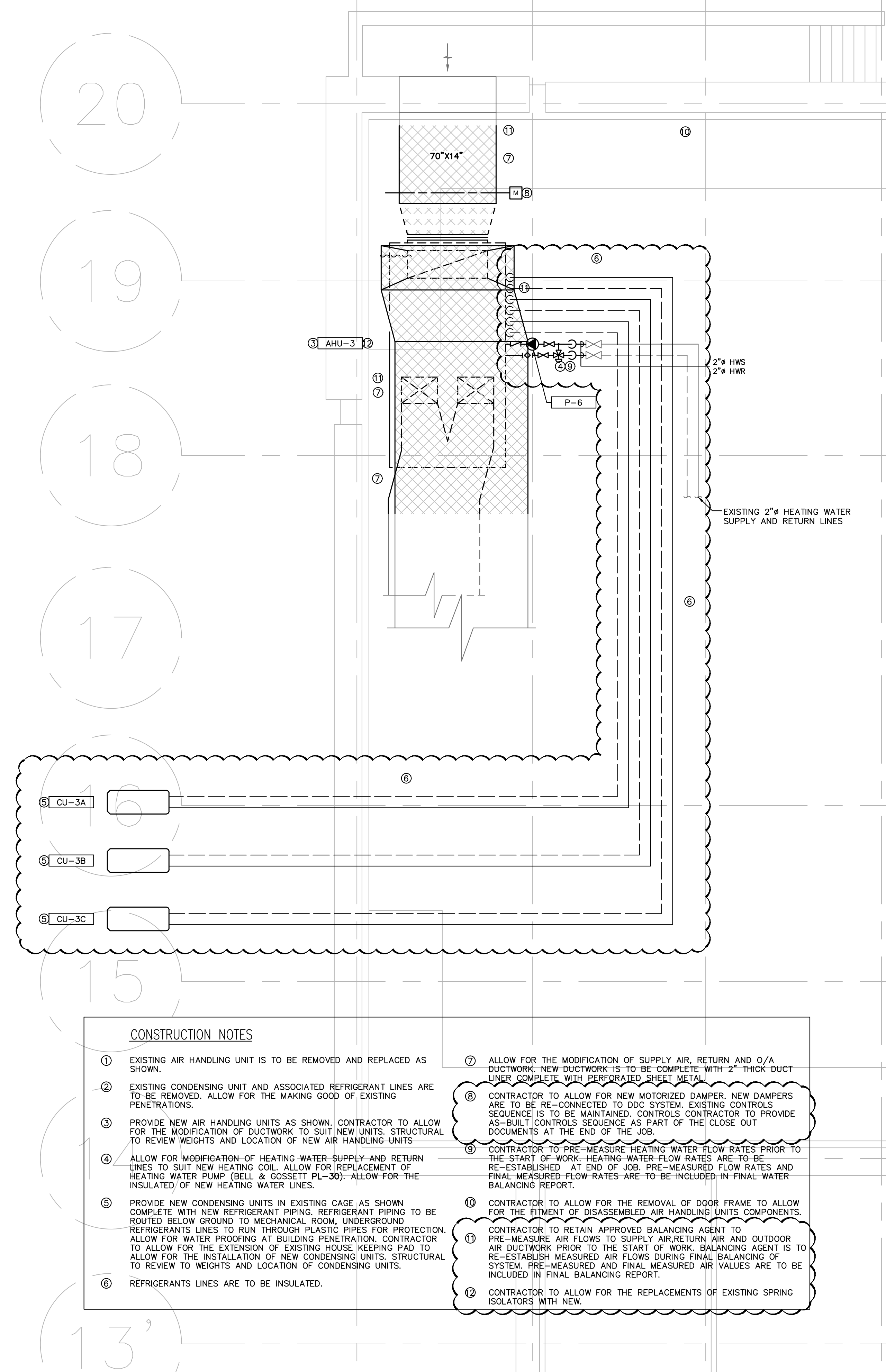
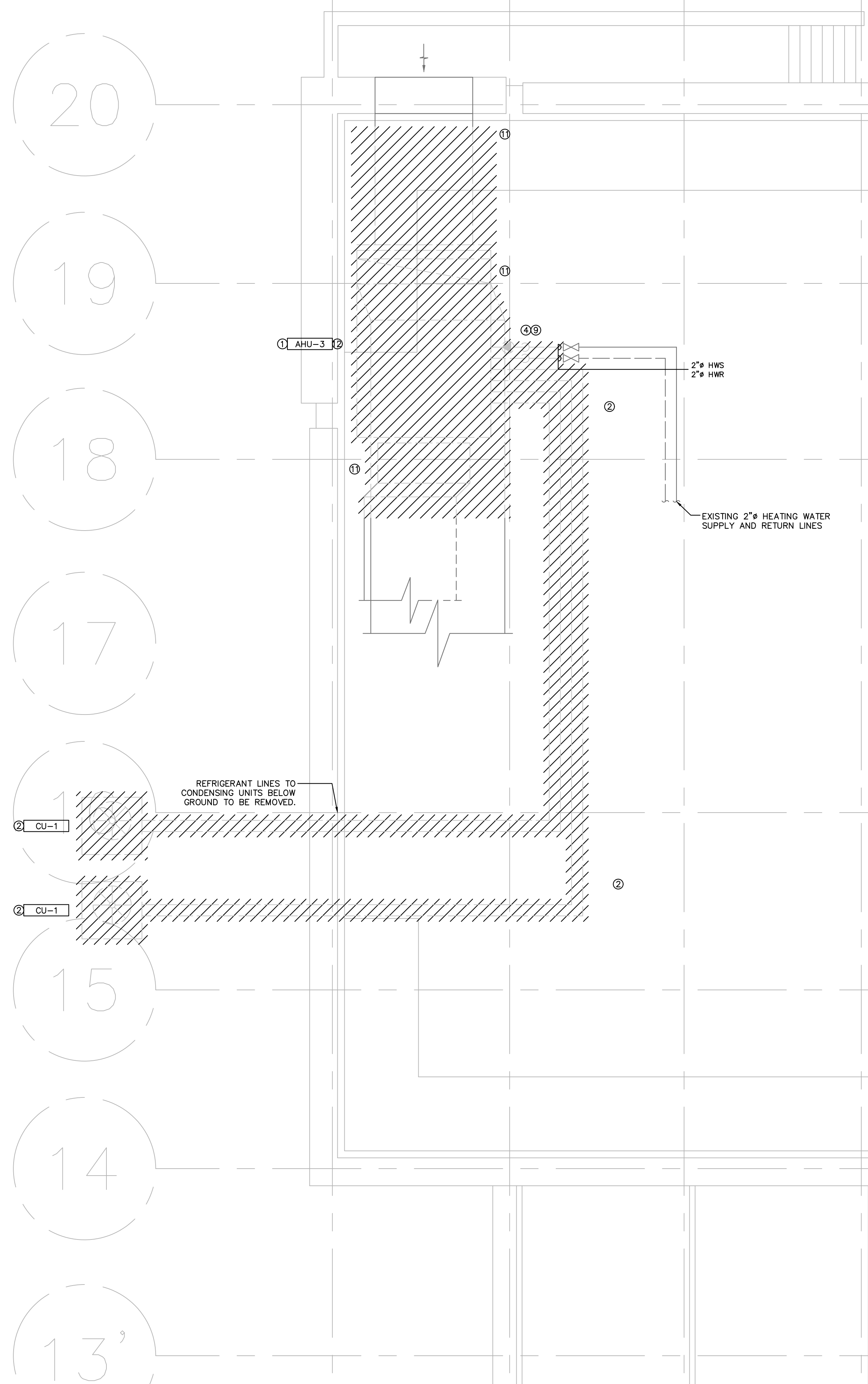
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Sheet Info.

DATE:	2019/09/23
PROJECT:	19-172
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CHECKED:	BY
APPROVED:	BY

AHU-3 REPLACEMENT  
Sheet

M-5



CONSTRUCTION NOTES

- 1 EXISTING AIR HANDLING UNIT IS TO BE REMOVED AND REPLACED AS SHOWN.
- 2 EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT LINES ARE TO BE REMOVED. ALLOW FOR THE MAKING GOOD OF EXISTING PENETRATIONS.
- 3 PROVIDE NEW AIR HANDLING UNITS AS SHOWN. CONTRACTOR TO ALLOW FOR THE MODIFICATION OF DUCTWORK TO SUIT NEW UNITS. STRUCTURAL TO REVIEW WEIGHTS AND LOCATION OF NEW AIR HANDLING UNITS.
- 4 ALLOW FOR MODIFICATION OF HEATING WATER SUPPLY AND RETURN LINES TO SUIT NEW HEATING COIL. ALLOW FOR REPLACEMENT OF HEATING WATER PUMP (BELL & GOSSETT PL-30); ALLOW FOR THE INSULATED OF NEW HEATING WATER LINES.
- 5 PROVIDE NEW CONDENSING UNITS IN EXISTING CAGE AS SHOWN COMPLETE WITH NEW REFRIGERANT PIPING. REFRIGERANT PIPING TO BE ROUTED BELOW GROUND TO MECHANICAL ROOM, UNDERGROUND REFRIGERANTS LINES TO RUN THROUGH PLASTIC PIPES FOR PROTECTION. ALLOW FOR WATER PROOFING AT BUILDING PENETRATION. CONTRACTOR TO ALLOW FOR THE EXTENSION OF EXISTING HOUSE KEEPING PAD TO ALLOW FOR THE INSTALLATION OF NEW CONDENSING UNITS. STRUCTURAL TO REVIEW TO WEIGHTS AND LOCATION OF CONDENSING UNITS.
- 6 REFRIGERANTS LINES ARE TO BE INSULATED.
- 7 ALLOW FOR THE MODIFICATION OF SUPPLY AIR, RETURN AND O/A DUCTWORK. NEW DUCTWORK IS TO BE COMPLETE WITH 2" THICK DUCT LINER COMPLETE WITH PERFORATED SHEET METAL.
- 8 CONTRACTOR TO ALLOW FOR NEW MOTORIZED DAMPER. NEW DAMPERS ARE TO BE RE-CONNECTED TO DDC SYSTEM. EXISTING CONTROLS SEQUENCE IS TO BE MAINTAINED. CONTRACTOR TO PROVIDE AS-BUILT CONTROLS SEQUENCE AS PART OF THE CLOSE OUT DOCUMENTS AT THE END OF THE JOB.
- 9 CONTRACTOR TO PRE-MEASURE HEATING WATER FLOW RATES PRIOR TO THE START OF WORK. HEATING WATER FLOW RATES ARE TO BE RE-ESTABLISHED AT END OF JOB. PRE-MEASURED FLOW RATES AND FINAL MEASURED FLOW RATES ARE TO BE INCLUDED IN FINAL WATER BALANCING REPORT.
- 10 CONTRACTOR TO ALLOW FOR THE REMOVAL OF DOOR FRAME TO ALLOW FOR THE FITMENT OF DISASSEMBLED AIR HANDLING UNITS COMPONENTS.
- 11 CONTRACTOR TO RETAIN APPROVED BALANCING AGENT TO PRE-MEASURE AIR FLOWS TO SUPPLY AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK PRIOR TO THE START OF WORK. BALANCING AGENT IS TO RE-ESTABLISH MEASURED AIR FLOWS DURING FINAL BALANCING OF SYSTEM. PRE-MEASURED AND FINAL MEASURED AIR VALUES ARE TO BE INCLUDED IN FINAL BALANCING REPORT.
- 12 CONTRACTOR TO ALLOW FOR THE REPLACEMENTS OF EXISTING SPRING ISOLATORS WITH NEW.





<p>TO: City of Surrey</p> <p>Surrey BC</p> <p>ATTN: Farhad Alizadeh</p> <p>PROJECT: Surrey Art Centre 13750 88 Avenue Surrey, BC, V3W 3L1</p> <p>ISSUED BY <u>Andrew Sinclair</u></p>	<p>PAGE: 1 of 1</p> <p>DATE: December 05, 2019</p> <p>PROJECT NO.: 19-172</p> <p>CONTRACT: Electrical</p> <p>DISTRIBUTION:</p> <p>Prime Consultant (x)</p> <p>Gen. Contractor (x)</p> <p>Mech. Contractor ( )</p> <p>Elect. Contractor (x)</p> <p>Resident Eng. ( )</p> <p>File (x)</p> <p>Other ( )</p>
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TO ALL BIDDERS OF RECORD

**1. GENERAL**

- 1.1 This addendum is issued pre "RFP" Proposal closing to provide for certain revisions as noted herein.
- 1.2 All such revisions will become part of the Work and the effects shall be included in the Proposal price.
- 1.3 All work shall be performed in accordance with the Contract Documents.

**2. MOTOR LIST CHANGES**

- 2.1 AHU-2 MCA has changed from 38.4 to 44.8. MOP has been upsized from 45A 3P to 50A 3P. All wiring to be sufficient for 50A rated for 75° C.
- 2.2 Additional unit added, CU-3C. 10.6 MCA with 15A 3P breaker fed with 3#AWG12. See attached drawing.
- 2.3 All breakers on mechanical equipment schedule corrected to 15A 3P for equipment CU-3A and CU-3B.

**3. GENERAL CHANGES**

- 3.1 Additional requirement add onto E2: under general notes new note 9, "E.C. to provide power and distribution for motorized dampers. Coordinate with mechanical for exact number and locations."

**-END-**

