October 30, 2024 **ADVERTISEMENT FOR BIDS**

The Dothan City Schools Facilities Department and Board of Education invites you to bid on providing labor for Chiller and Pump Replacement at Hidden Lake Primary School and VAV replacements.

TO INTERESTED BIDDERS:

Bids for the Chiller and VAV replacement project, at Hidden Lake Primary School in Dothan, AL will be received until 9:00 a.m., Monday, December 9, 2024, at the office of the Dothan City Board of Education, 1665 Honeysuckle Road, Dothan, AL 36305, in Training Room 1 at which time the sealed proposals will be opened publicly and read. **All bids must be presented/delivered in sealed envelope with bid number (8325-02) and current business license number clearly identified on the lower left corner outside of the envelope.**

It is not the policy of the Board of Education to purchase on the basis of low bid alone, quality and suitability to purpose being controlling factors, in addition past performance will be used in this determination, it being understood that the purchaser reserves the right to determine such by whatever means as may be necessary. The DCS Board of Education reserves the right to reject any and/or all bids, and to waive all informalities in bidding, to be the sole judge of quality and equality of the several bid proposals and to award the contract to the most desirable bidder.

Contracts for labor will be put into effect by means of purchase order executed by the Board of Education after tabulations are compiled, evaluated and approved by Board.

Sharla Godwin

Director of Facilities and Maintenance

shgodwin@dothan.k12.al.us

/slg

Attachments

cc: Dennis R. Coe Ed.D.; Superintendent

Hidden Lake Primary School

Hidden Lake Elementary – Chiller and VAV Replacements Project – Scope of Work

Location: Hidden Lake Primary School
Address: 1475 Prevatt Rd,
Dothan, AL 36301

Please provide pricing for the following scopes of work:

1. Replace (2) Air-cooled chillers each with new Trane 120-ton CGAM.
2. Replace (48) VAV boxes with electric heat (like-for-like)

EQUIPMENT (Owner-Provided)

Air-Cooled Scroll (Qty: 2)

Item	Tag(s)	Qty	Description	Model Number
A1	CGAM-120	2	20-130 Ton Air-Cooled (CGAM)	CGAM120F2**2EXB2A1A3A1AX*A1A2B4XXXXXXA1A3A1D1XXLXX

Product Data - Air-Cooled Scroll
Item: A1 Qty: 2 Tag(s): CGAM-120
Air-Cooled Scroll Packaged Chiller
Startup Included - Trane Service must start equipment for warranty to be honored
120 nominal tons
Factory Assigned
60 hertz
460 volt 3 phases
High efficiency/performance
Refrigerant Charge R-454B

Variable Air Volume Single Duct Terminal Units (Qty: 48)

Item	Tag(s)	Qty	Description	Model Number
A1	VAV-2-9	1	Variable Air Volume Single Duct Terminal	VCEF10--*M0SY95D**0*0F5W0F08015**0055
A2	VAV-6-1, through VAV-6-12,	12	Variable Air Volume Single Duct Terminal	VCEF10--*M0SY95D**0*0F5W0F08015**0055
A3	VAV-5-02	1	Variable Air Volume Single Duct Terminal	VCEF24RT*M0SY95D**0*0F5W0F22015**0055
A4	VAV-2-8	1	Variable Air Volume Single Duct Terminal	VCEF12--*M0SY95D**0*0F5W0F12015**0055
A5	VAV-3-4	1	Variable Air Volume Single Duct Terminal	VCEF12--*M0SY95D**0*0F5W0F09015**0055
A6	VAV-5-01	1	Variable Air Volume Single Duct	VCEF24RT*M0SY95D**0*0F5W0F22015**00

			Terminal	55
A7	VAV-3-1, VAV-3-3, VAV-3-5	3	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F08015**0055
A8	VAV-3-2, VAV-3-6	2	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F08015**0055
A9	VAV-2-16	1	Variable Air Volume Single Duct Terminal	VCEF12-- *M0SY95D**0*0F5W0F10015**0055
A10	VAV-2-13	1	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F07015**0055
A11	VAV-2-15	1	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F08015**0055
A12	VAV-2-14	1	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F08015**0055
A13	VAV-2-12	1	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F07015**0055
A14	VAV-2-11	1	Variable Air Volume Single Duct Terminal	VCEF06-- *M0SY95D**0*0F4W0D03015**0055
A15	VAV-2-10	1	Variable Air Volume Single Duct Terminal	VCEF12-- *M0SY95D**0*0F5W0F12015**0055
A16	VAV-2-5	1	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F08015**0055
A17	VAV-2-7	1	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F08015**0055
A18	VAV-2-6	1	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F08015**0055
A19	VAV-2-4	1	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F08015**0055
A20	VAV-2-3	1	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F08015**0055
A21	VAV-1-11	1	Variable Air Volume Single Duct Terminal	VCEF06-- *M0SY95D**0*0F4W0D03015**0055
A22	VAV-1-12	1	Variable Air Volume Single Duct Terminal	VCEF08-- *M0SY95D**0*0F4W0D04015**0055
A23	VAV-2-2	1	Variable Air Volume Single Duct Terminal	VCEF12-- *M0SY95D**0*0F5W0F06015**0055

A24	VAV-2-1	1	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F08015**0055
A25	VAV-1-9	1	Variable Air Volume Single Duct Terminal	VCEF08-- *M0SY95D**0*0F4W0D04015**0055
A26	VAV-1-7	1	Variable Air Volume Single Duct Terminal	VCEF06-- *M0SY95D**0*0F4W0D03015**0055
A27	VAV-1-8	1	Variable Air Volume Single Duct Terminal	VCEF08-- *M0SY95D**0*0F5W0F05015**0055
A28	VAV-1-10	1	Variable Air Volume Single Duct Terminal	VCEF16-- *M0SY95D**0*0F5W0F18015**0055
A29	VAV-1-6	1	Variable Air Volume Single Duct Terminal	VCEF08-- *M0SY95D**0*0F4W0D04015**0055
A30	VAV-1-4	1	Variable Air Volume Single Duct Terminal	VCEF12-- *M0SY95D**0*0F5W0F08015**0055
A31	VAV-1-3	1	Variable Air Volume Single Duct Terminal	VCEF08-- *M0SY95D**0*0F5W0F06015**0055
A32	VAV-1-5	1	Variable Air Volume Single Duct Terminal	VCCF04-- *M0SY71D**0*0L0W0000000**0055
A33	VAV-1-1	1	Variable Air Volume Single Duct Terminal	VCEF12-- *M0SY95D**0*0F5W0F11015**0055
A34	VAV-1-2	1	Variable Air Volume Single Duct Terminal	VCEF10-- *M0SY95D**0*0F5W0F08015**0055

EQUIPMENT (Contractor-Provided)

- (2) 3-hp chilled water pumps
  - Base Mounted End Suction Pumps
  - 230-460/3/60 ODP inverter
  - Capacity: 217gpm at 35 feet.
  - 4" triple duty valves
  - 4 4" flex connectors
- (2) Variable speed drive for chilled water pumps
- Heat trace for chillers

CHILLER REPLACEMENTS

MECHANICAL

- Reclaim refrigerant from each existing machine.
- Remove existing air-cooled chillers and **turn over to Dothan City Schools.**
- Remove chilled water supply and return piping at chiller back to isolation valves. Prepare for connection to new chiller.
- Install new chiller in same location and removed chiller. Include unloading and rigging for setting chiller.
- Reuse existing chilled water supply and return piping with modifications to connect to new chiller.
- Provide insulation and aluminum jacketing on exterior of insulated piping.
- Provide heat trace on new chiller. New heat trace tape furnished and installed by mechanical contractor.
- Chiller startup provided by Trane.
- Contractor should provide a one year labor warranty.

ELECTRICAL

- Reuse existing 300 amp circuit for new chiller.
- Disconnect and remove flexible connection between the existing disconnect switch and
- chiller.
- Provide circuit and install heat trace on new chiller.
- Disconnect and remove heat trace power wiring including boxes and flexible connections.
- Retain for reconnection to new heat trace tape. New heat trace tape furnished and
- installed by mechanical contractor.
- Provide new liquid tight flexible connection between existing disconnect switch and new
- chiller.
- Reinstall conduit and wire, removed earlier, for the heat trace, including boxes and
- connections to the new heat trace tape.

CHILLED WATER PUMP REPLACEMENTS

MECHANICAL

- Pump replacement for each chiller. (CWP-1 and CWP-2)
- Remove and dispose of existing 3-HP Chilled Water Pump.
- Install 3-HP chilled water pump with suction diffuser, Triple Duty Valve, and flex connectors.
- Provide (2) new 3-HP chilled water pumps with suction diffuser, Triple Duty Valve, and flex connectors.
- Pump replacement for Chilled Water Loop Pump (PCWP-1)
- Remove and dispose of 15-HP Chilled Water Pump.
- Install **Owner-Provided** 15-hp pump with suction diffuser and flex connectors.
- Contractor to provide and install Triple Duty Valve with pump replacement.
- Re-insulate pump and piping.
- Digital Pump Alignment.
- Contractor should provide a one year labor warranty.

ELECTRICAL

- Disconnect power from the (2) 3-hp chilled water pumps. Retain conduit and wire for
- reconnection to the new pumps. Reconnect power to new pumps after set.
- Disconnect power from (1) 15-hp chill water loop pump. Retain conduit and wire for
- reconnection to new pump. Reconnect power to new pump after set in place.

VAV REPLACEMENTS

MECHANICAL

- There are (48) VAV boxes being replaced under this project.
- Remove VAV box with electric reheat. **Turn over removed VAVs to Dothan City Schools.**
- Replace with new VAV box with electric reheat.
- Reconnect ductwork to existing and insulate ductwork.
  Plan for work to be done when school is out, during normal business hours.

ELECTRICAL

- There are (48) VAV boxes being replaced under this project.
- Disconnect both power and control wiring from 48 VAV boxes with electric reheat.
- Retain wiring for connection to VAV boxes.
- Reconnect existing power and control wiring to 48 new VAV boxes
- Trane will provide VAV boxes with factory-mounted controllers.
- Reuse existing wiring from old controller to connect new controller to existing Tracer SC+.
- Replace existing zone sensor with new sensor in same location. Reuse existing wiring for sensor.

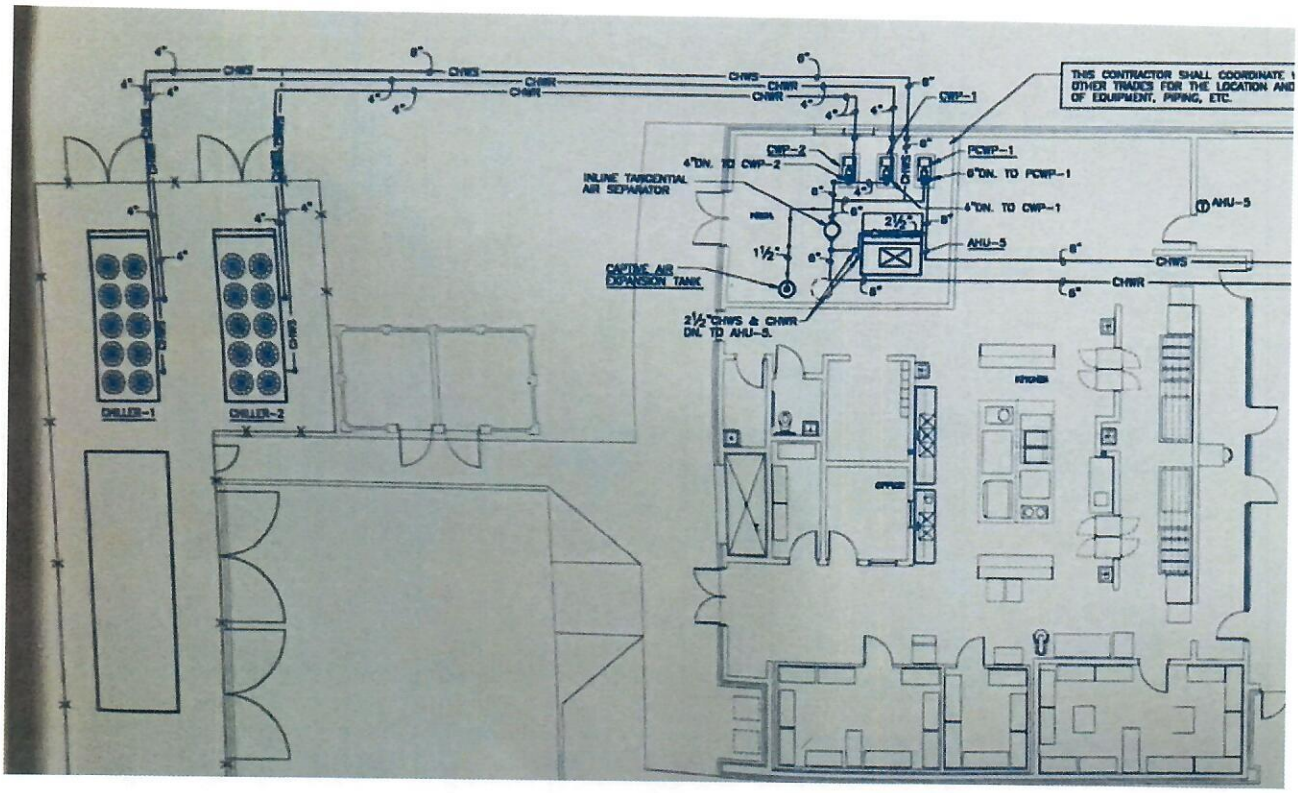
TEST AND BALANCE

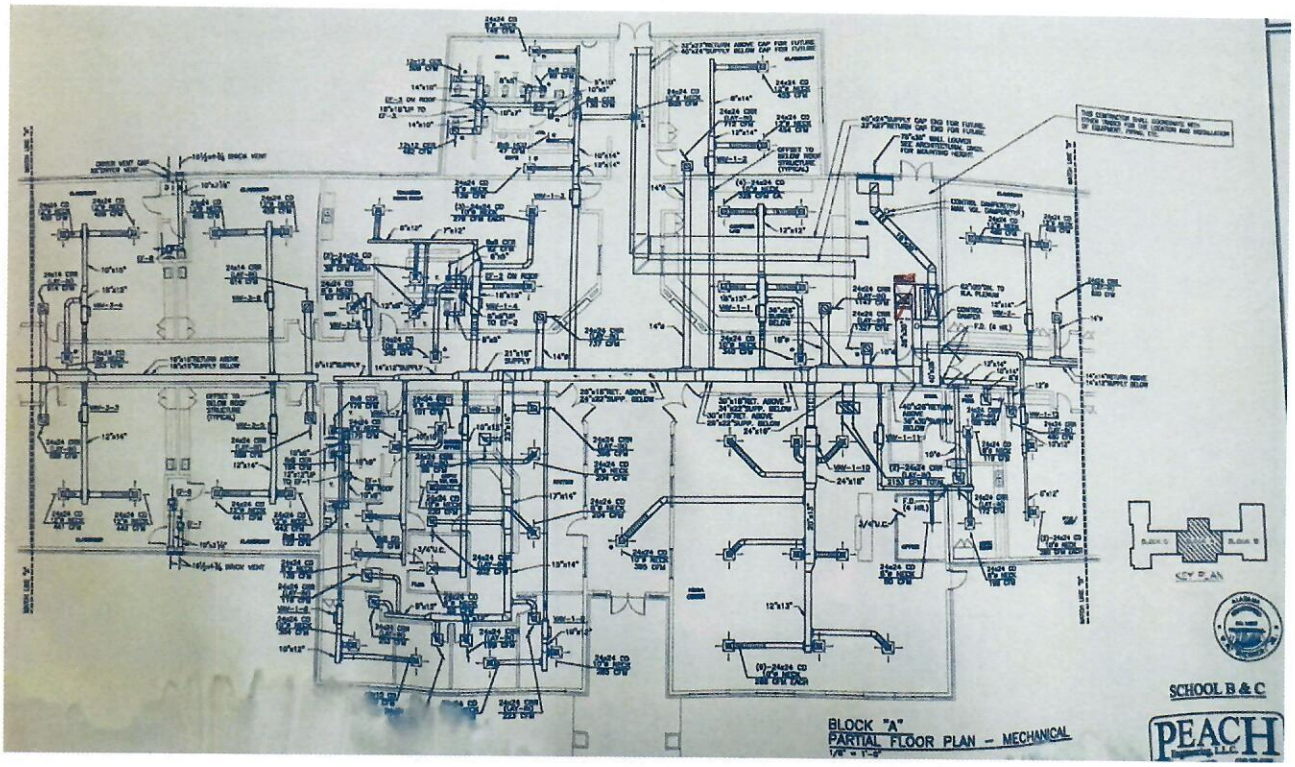
- Waterside TAB for new chiller and existing (2) chilled water pumps.
- Airside TAB for (48) VAV boxes (no diffusers)

CONTROLS (Owner-Provided)

Controls scope of work shall be separate from mechanical and electrical scopes. Controls contractor shall coordinate with Mechanical and Electrical Contractors for tying in new equipment to existing Trane control system.


TRANE


CHWS
CHWR
CWP-1
CWP-2
PCWP-1
4"DN. TO CWP-2
8"DN. TO PCWP-1
4"DN. TO CWP-1
INLINE TANGENTIAL AIR SEPARATOR
CAPTIVE AIR EXPANSION TANK
2½"CHWS & CHWR DN. TO AHU-5.
AHU-5
CHILLER-1
CHILLER-2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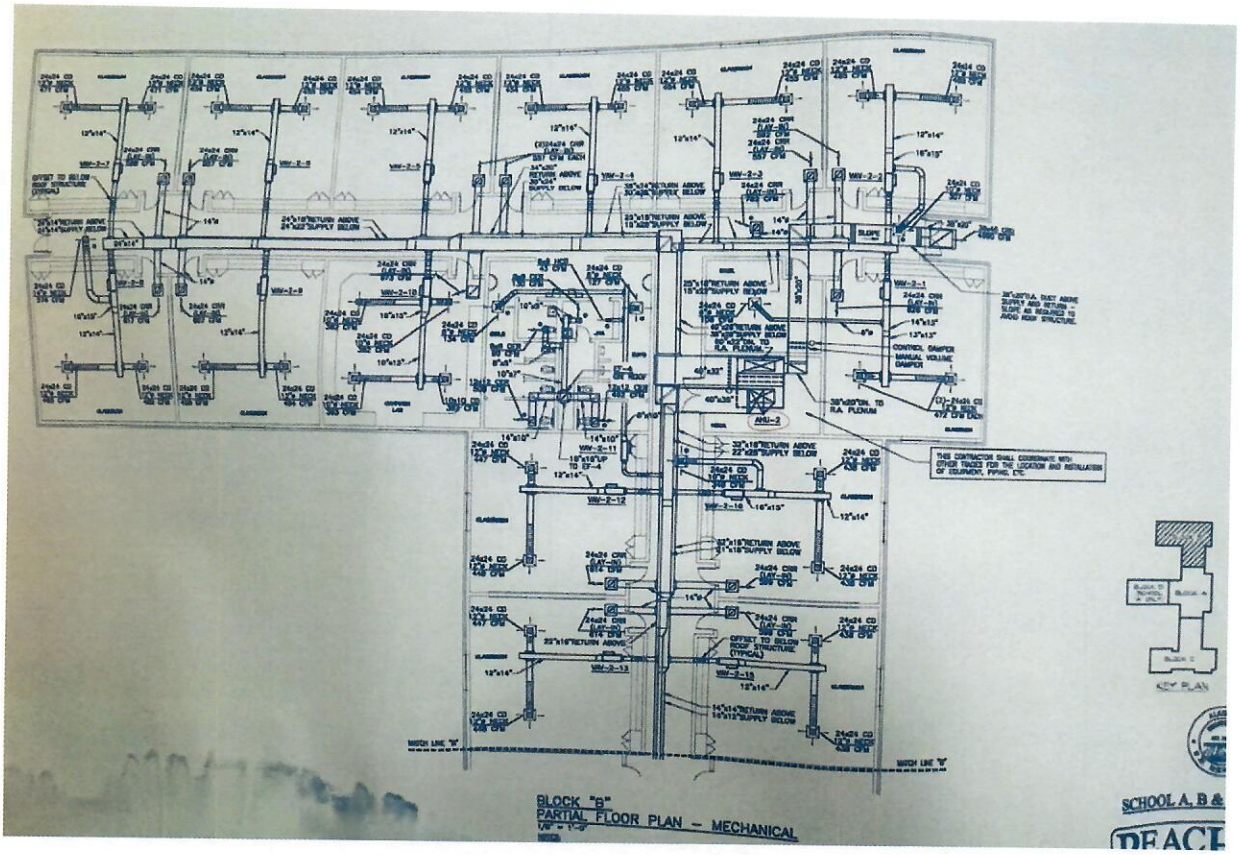
SCHOOL B & C
PEACH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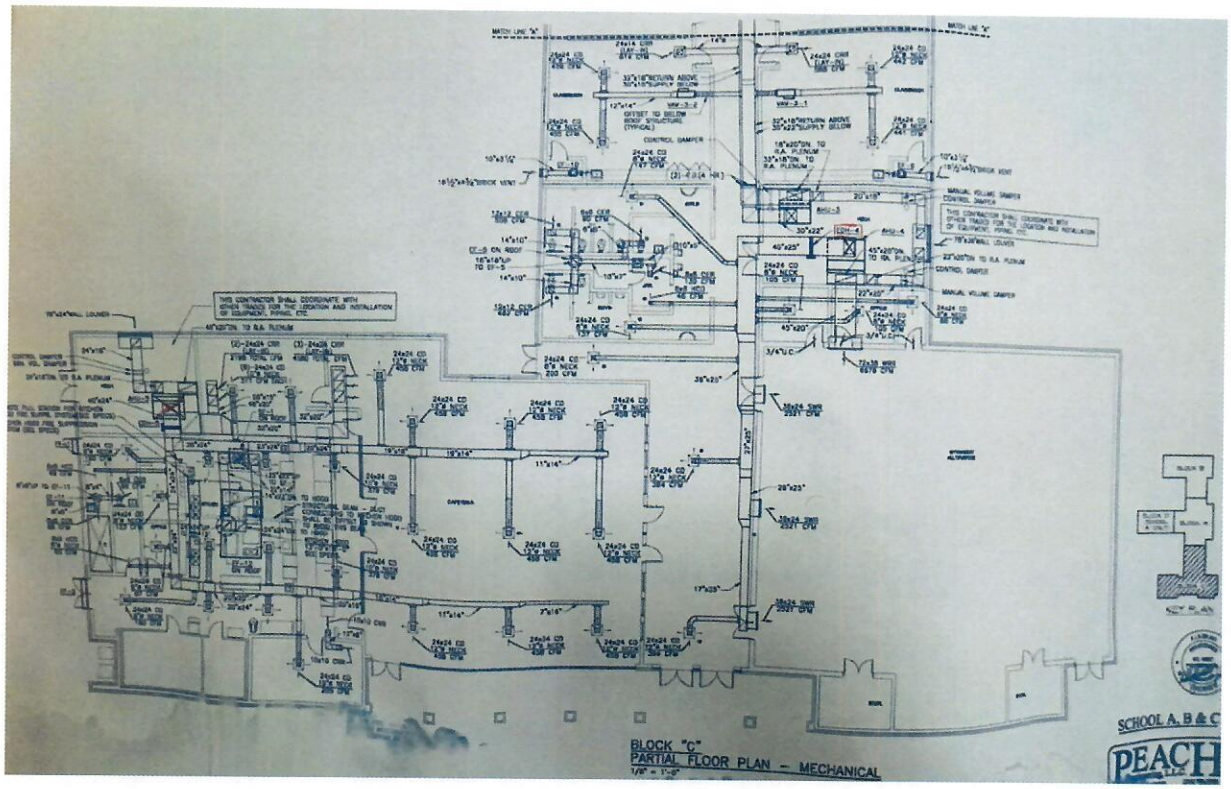
PARTIAL FLOOR PLAN – MECHANICAL
KEY PLAN
SCHOOL A, B &


BLOCK "C"
PARTIAL FLOOR PLAN – MECHANICAL
KEY PLAN
SCHOOL A, B &C