



MEMORANDUM

Date: May 18, 2021
Project: Collin County ADC DDC Upgrade
To: John Griffin, Collin County
RE: Project Closeout action list

Based on the meeting with ABM, Collin County, and MD Engineering and subsequent reviews, we believe the following will allow for this project to proceed and be closed out in a prompt manner. Below is the list of open items with the close out action after in in red and italicized:

1. Replace the actuators that do not meet the torque rating of the contract documents and provide a credit for the substituted model.
Action Item: ABM to replace the 17 actuators identified in Table 1 in the March 5, 2021 and March 30 memorandum from MD Engineering
2. Provide a credit for all the substituted actuators that meet the required torque ratings but do not meet the performance of the actuators identified in the 23 09 00 supplemental information provided in Addendum 3.
Action Item: Collin County will accept ABM's proposed credit of \$6,496 for the 40 actuators identified in the March 5 memorandum, Table 2
3. Complete the testing of the installed actuators in Area G – Cluster 3 Pod D which was delayed due to COVID 19.
Action Item: Brad Harris to schedule with ABM.
4. Complete the punch list and have it signed off by the Owner.
Action Item: Brad Harris to provide latest punch list and schedule with ABM.
5. Provide a transmittal identifying actuators not installed for this project.
Action Item: ABM to provide a transmittal based on the list Brad Harris e-mailed on May 13, 2021.
6. Submit complete O&M including as-built documentation.
Action Item: ABM to provide revised O&M based on the comments Brad Harris e-mailed on May 13, 2021.

7. Indicate warranty period for project.

Action Item: Warranty period of one (1) year to commence on final project acceptance date per Construction Agreement Section 3.8.1:

3.8.1 SPECIAL WARRANTY

If within one year after final acceptance of the work by the OWNER, as evidenced by the final certificate of acceptance or within such longer or shorter period of time as may be prescribed by law or by the terms of any other applicable special warranty on designated equipment or portions of work as required by the Contract Documents, any of the work is found to be defective or not in accordance with the Contract Documents, the CONTRACTOR shall correct it promptly after receipt of a written notice from the OWNER to do so. This obligation shall survive termination or completion of the Contract. The OWNER shall give such notice promptly after discovery of the condition.

The CONTRACTOR shall remove from the site all portions of the work which are defective or nonconforming and which have not been corrected unless removal is waived in writing by the OWNER.

If there are any questions on this list, please let me know.

Sincerely,

MD Engineering, LLP

A handwritten signature in blue ink, appearing to read "Michael Smith", with a stylized flourish at the end.

Michael Smith, PE LEED® AP
President

**Punch List**

PROJECT: Collin County Upgrade

REPORT NO. 04

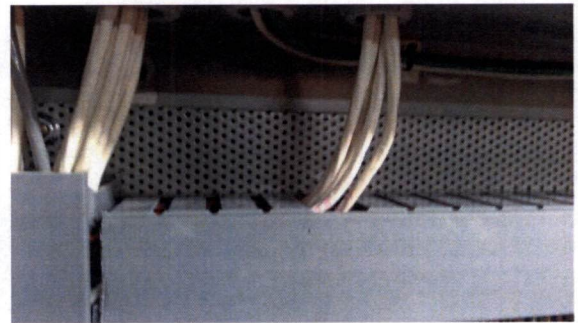
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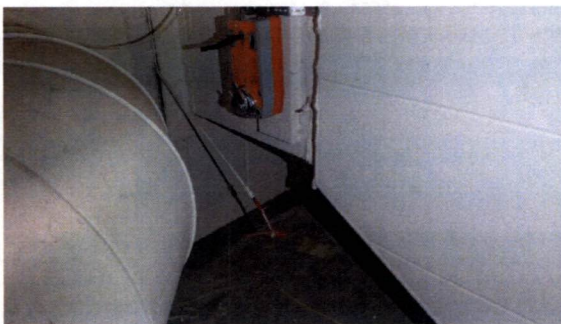
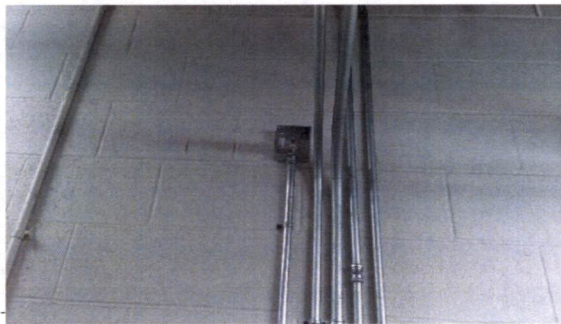
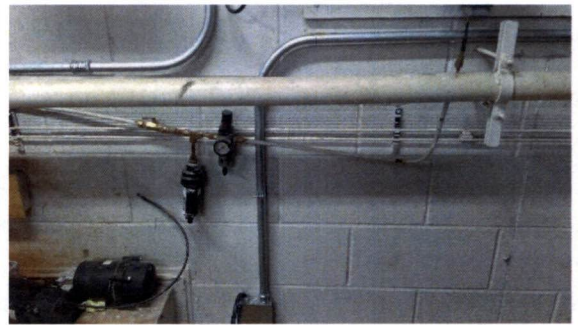
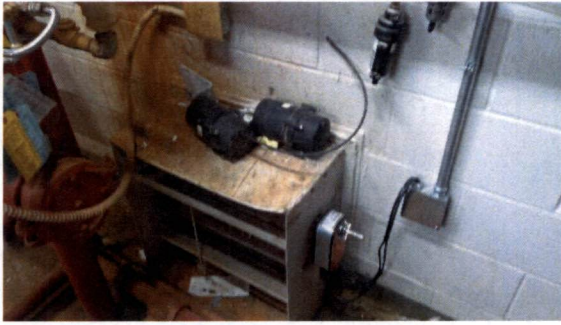
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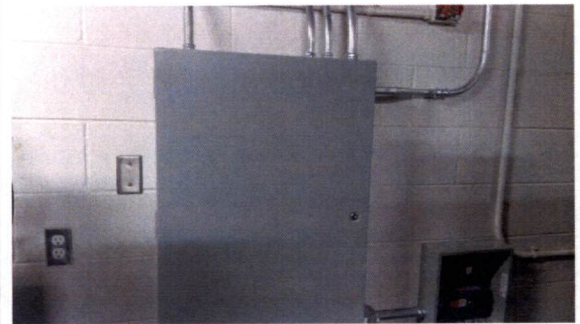
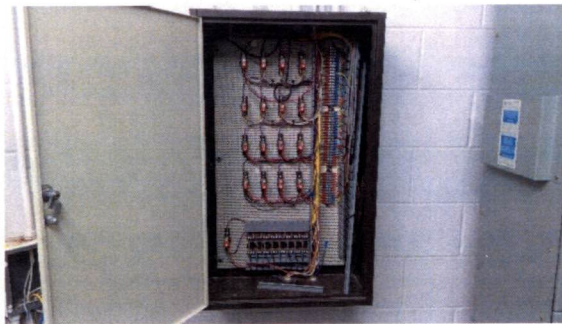
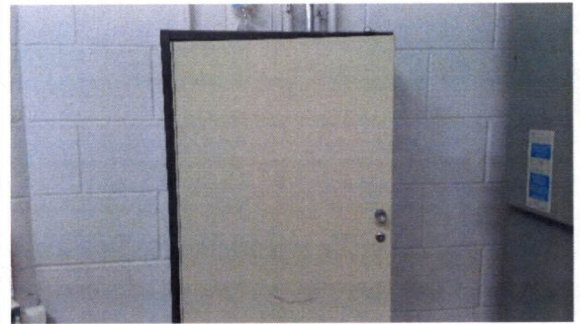
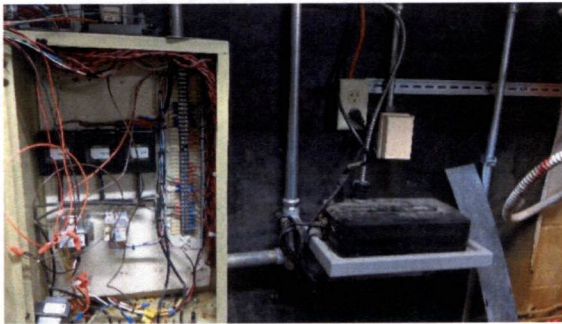
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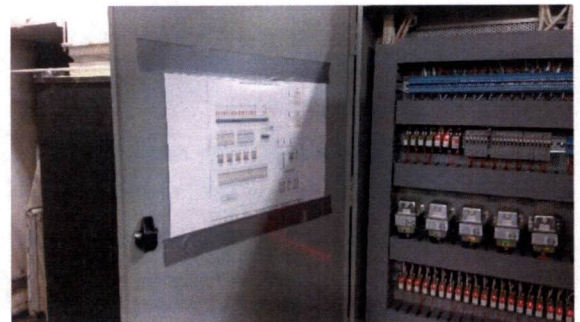
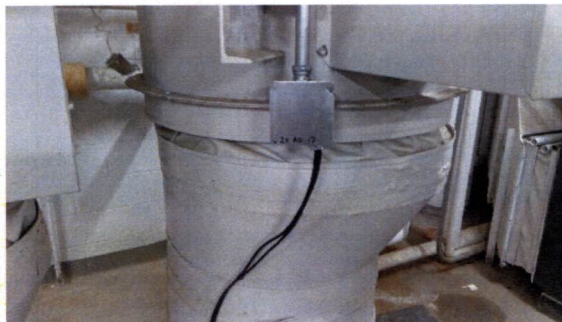
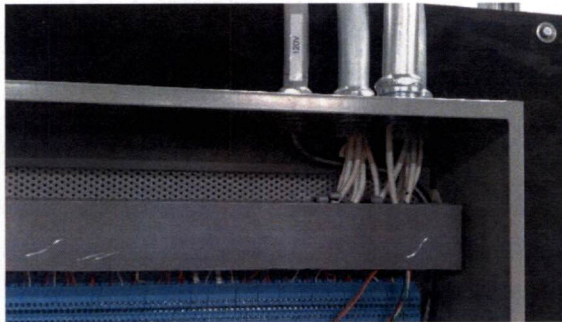
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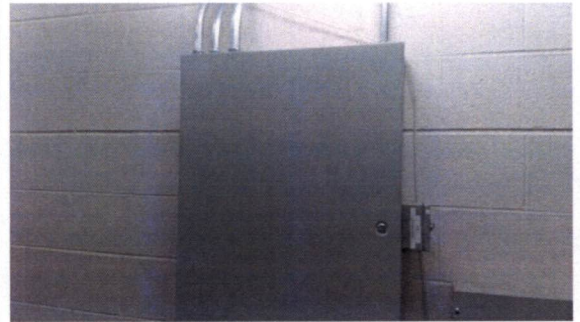
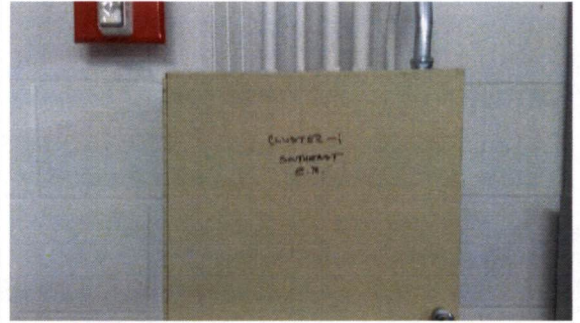
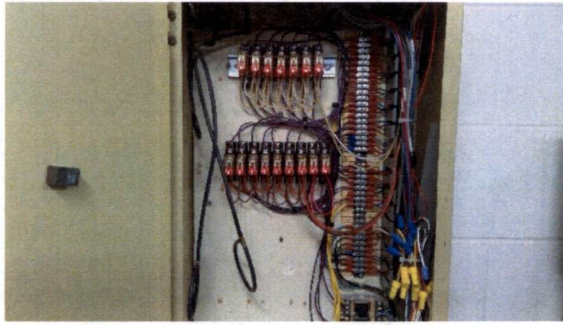
Cluster 1 POD A

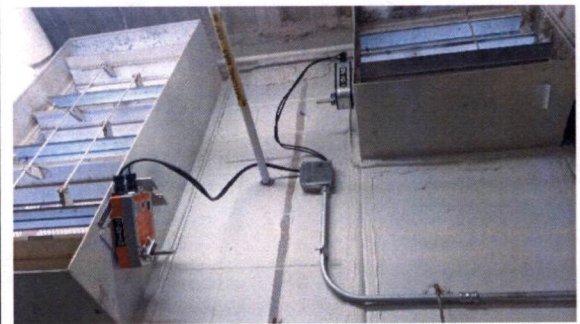
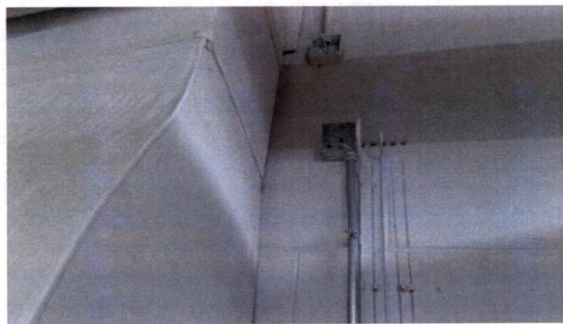
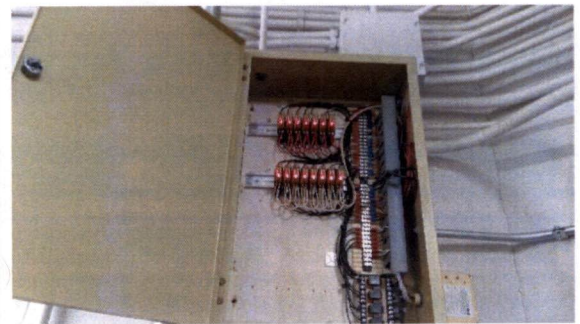
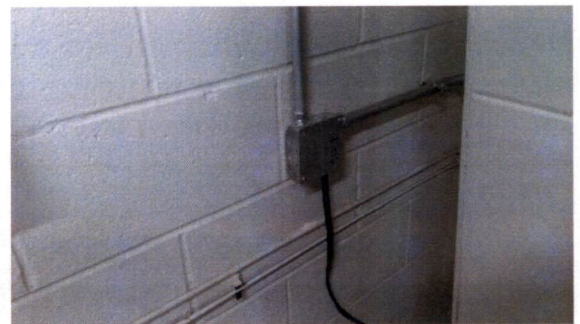
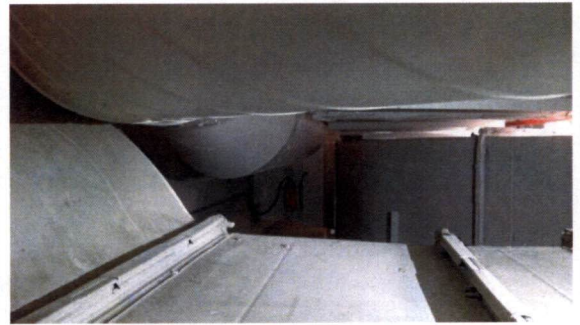
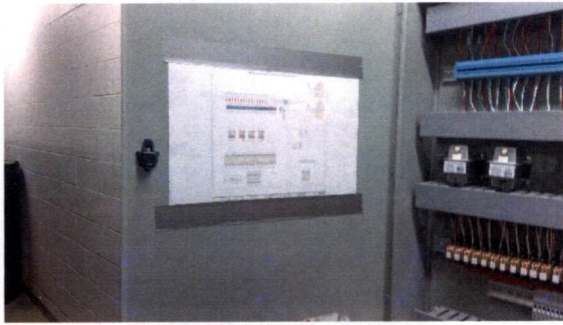


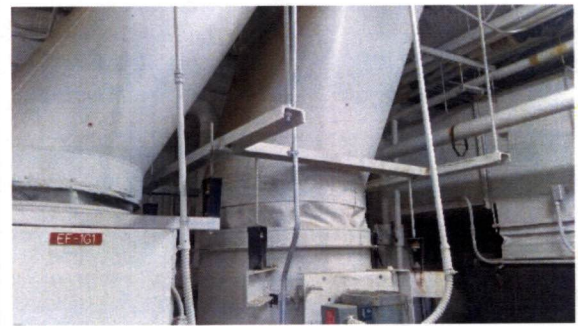
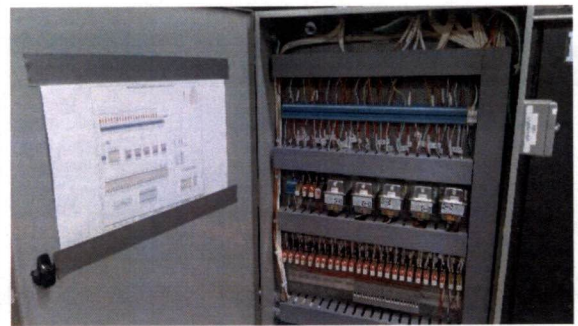


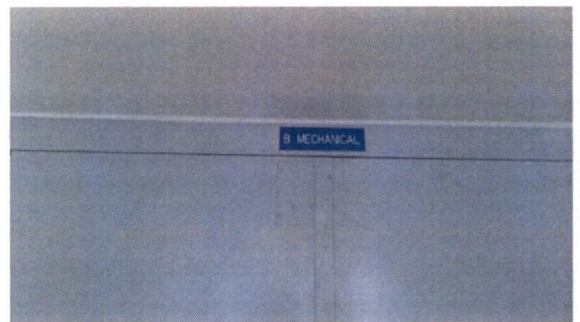
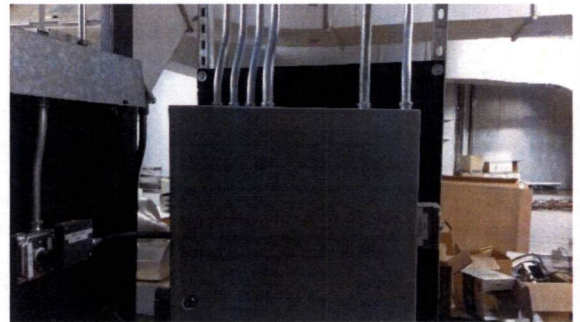
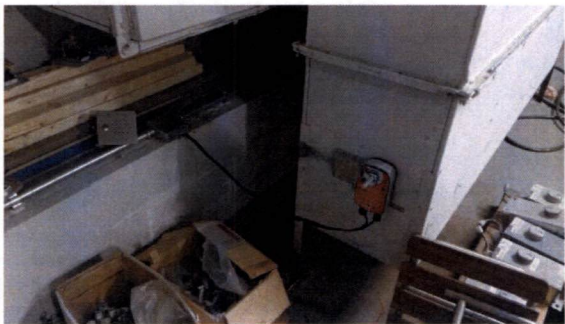
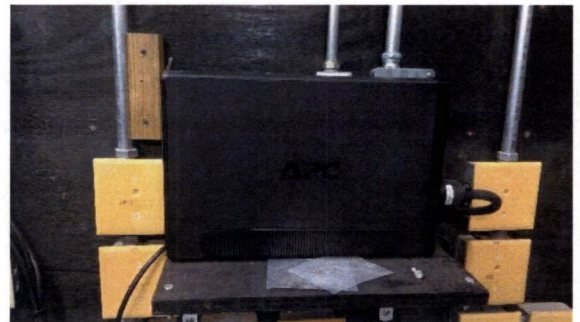


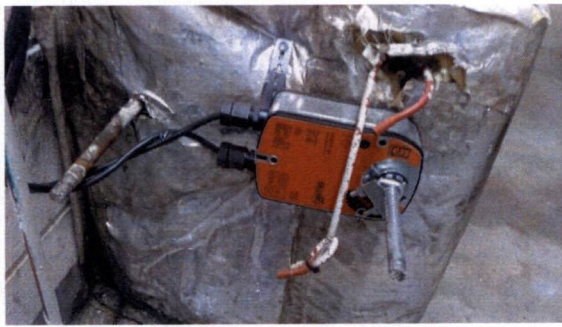
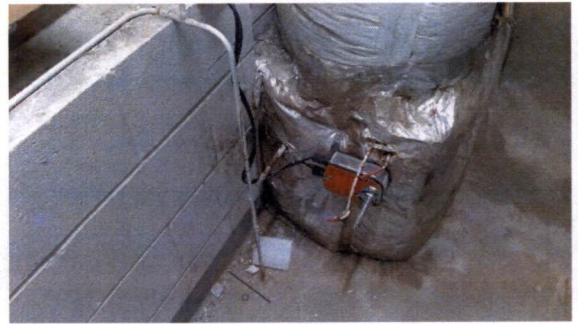
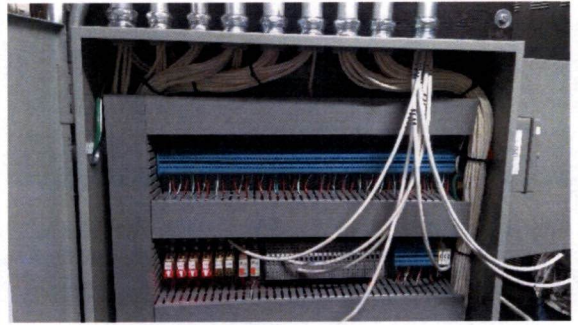
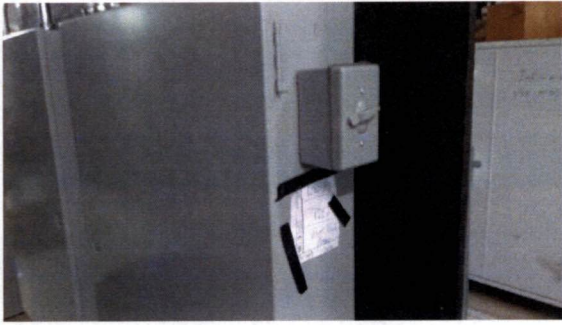


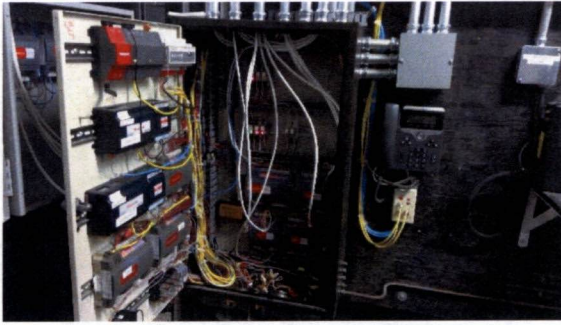




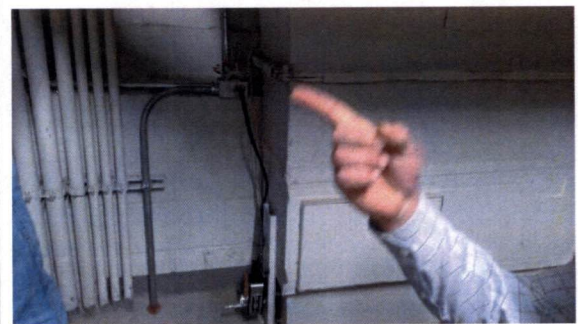
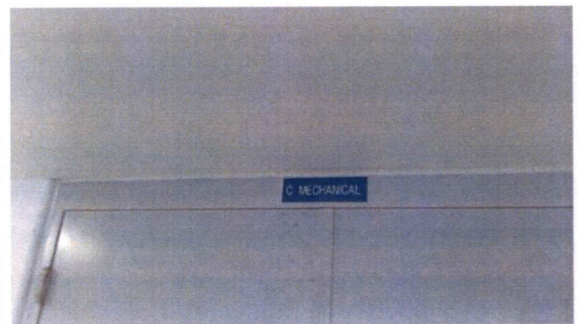
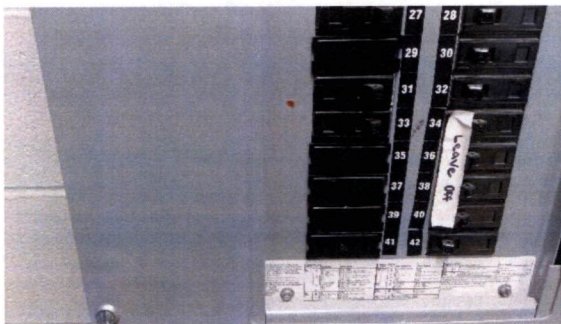
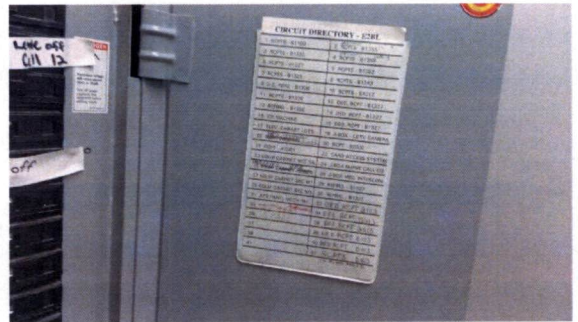


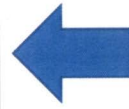
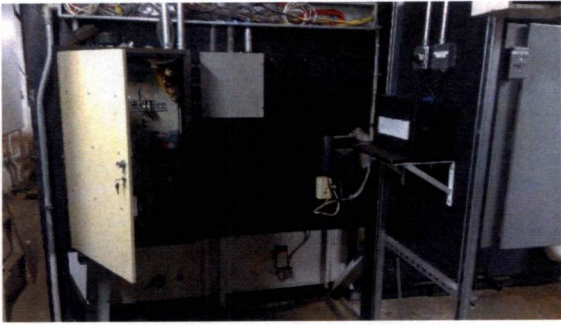






Electrical Room

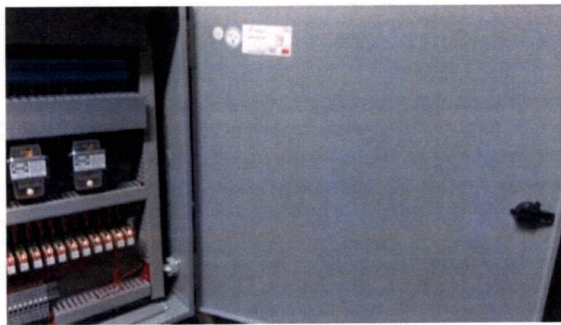
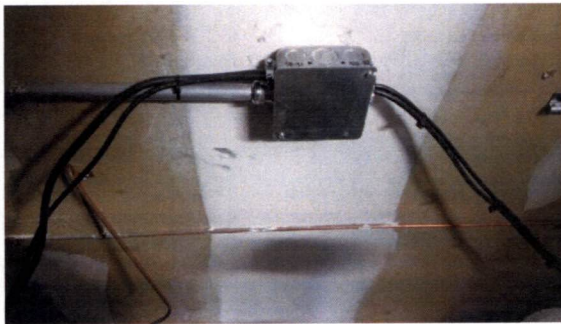




- Provide power to existing panel from UPS.
- Label Panel

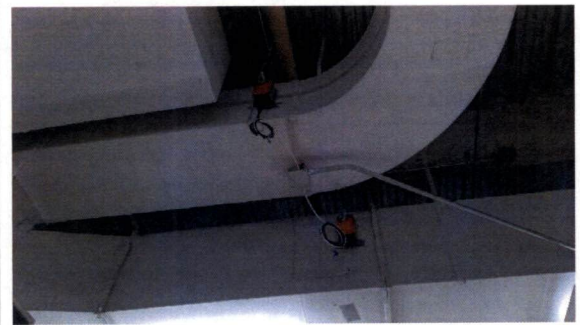
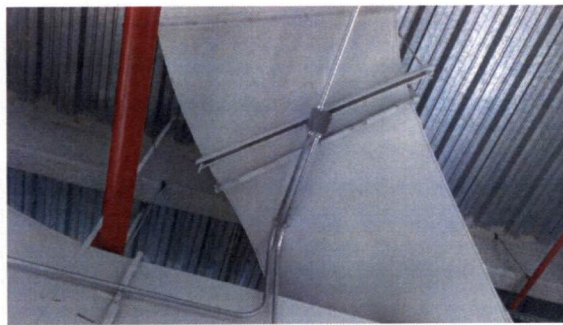
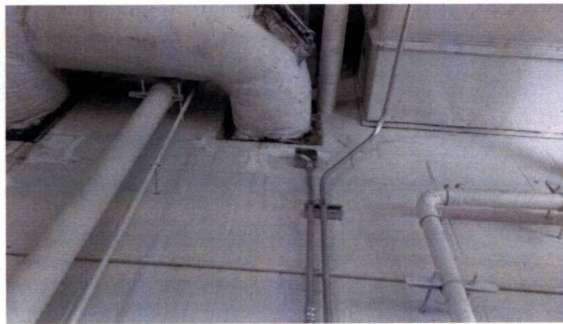
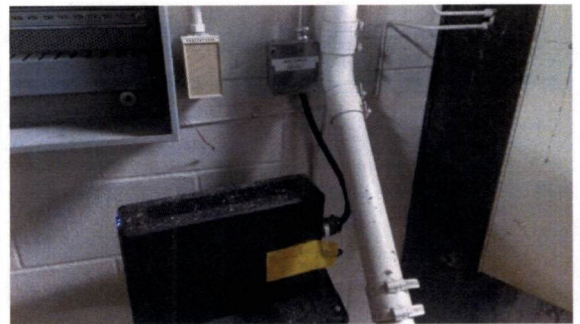


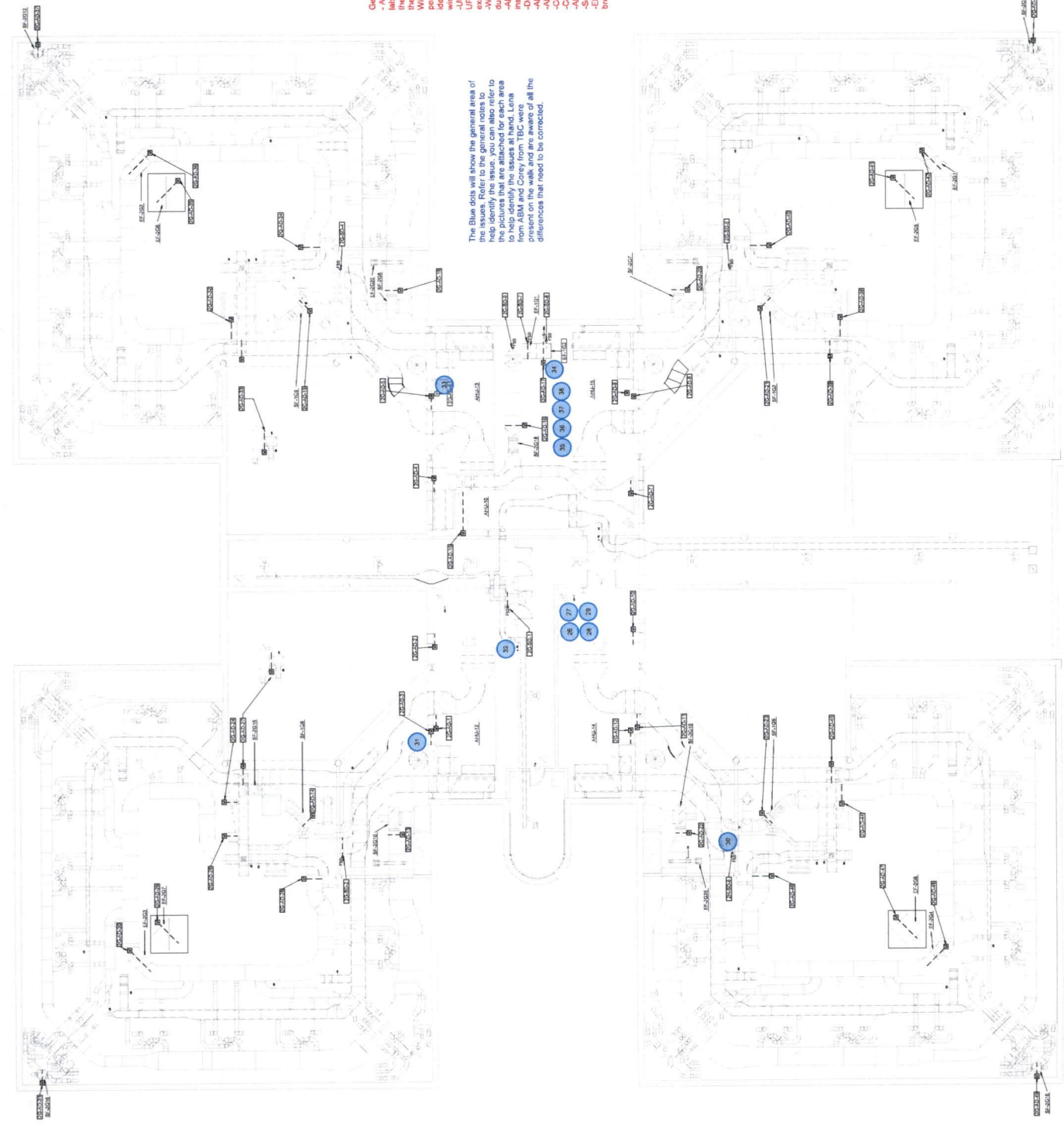
Area E





Lower Level B





GENERAL NOTES

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General Notes for All Areas:

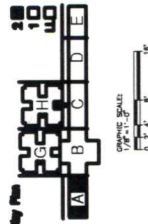
- All panels, J-boxes, disconnects, and wiring needs to be labeled with labels not black ink or pen per the specification. Some actuators have the labels on the back of them and you are unable to see them, label the J-box they go to for better identification not in black ink or pen. If you can't see the label, label it with a black ink or pen. Some areas not labeled at all, the service techs need to be able to identify which wire goes to which actuator without having to trace the wire all the way back to the actuator.
- All wiring needs to be labeled with what areas it is serving. The UPS needs to have power run to the existing panels. Use area E as an example or coordinate with Brad.
- Wiring Diagram needs to be in a clear protective sleeve and not ducted taped to the back of the door.
- All wiring needs to be pickup and panels need to be cleaned on the inside.
- Demo is not complete of existing Pneumatic controls.
- All panels and J-boxes are to have covers on them.
- All wiring needs to be labeled with what areas it is serving.
- Conduit is not supported to unsuit.
- All Conduit to be 1" minimum.
- Screws on plywood are sticking out causing a possible safety issue. All plywood needs to be replaced with 1/2" plywood with pen. New breaker was not supplied for new incoming power.

The Blue dots will show the general area of the issue. Review the notes to help identify the issue. You can also refer to the pictures that are attached for each area to help identify the issues at hand. Lena is present on the walk and aware of all the differences that need to be corrected.



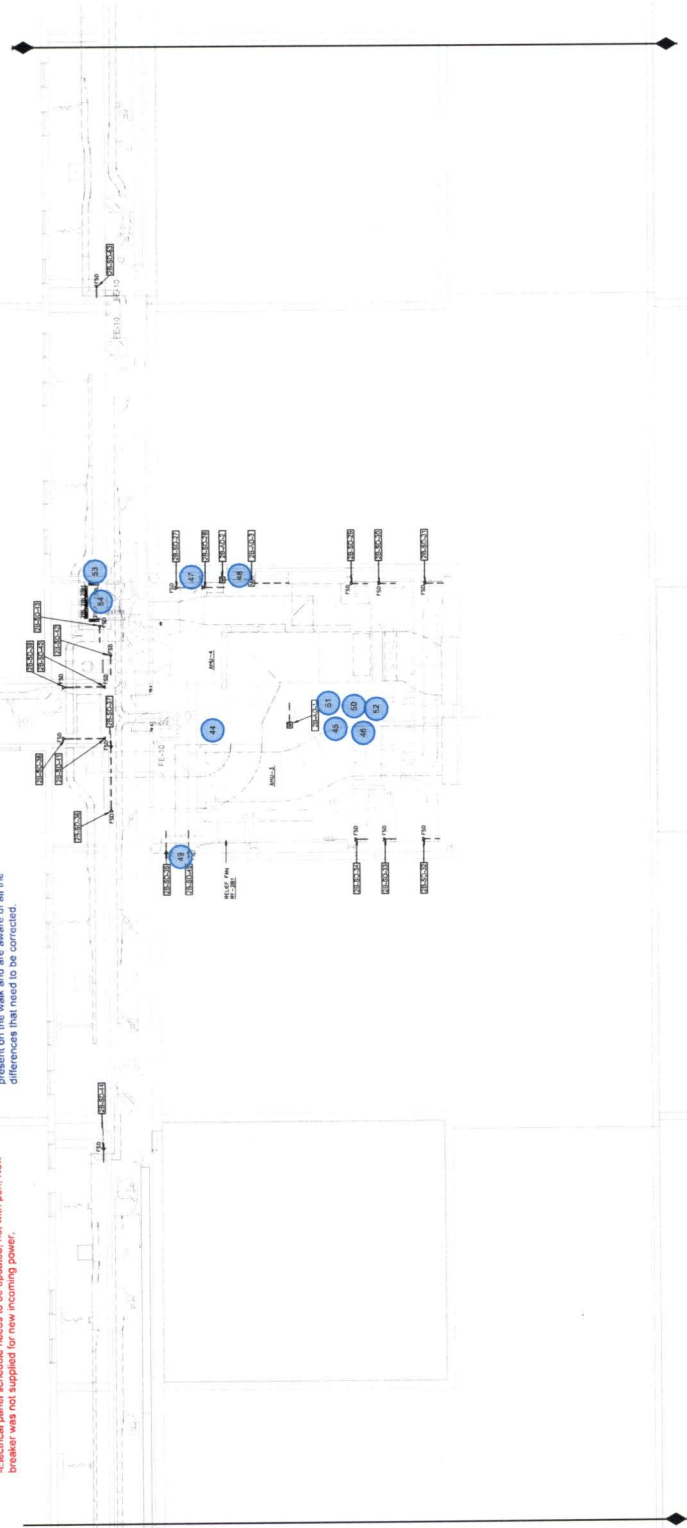
Scale: 1/4" = 1'-0"

01 SECOND FLOOR OVERALL PLAN - BUILDING H

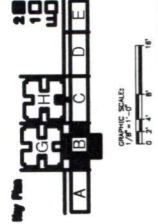


- General Notes for All Areas:
- All panels, J-boxes, Disconnects, and wiring needs to be labelled with labels not black ink or pen per the specification. Some actuators have labels not black ink or pen per the specification. Some actuators have labels not black ink or pen per the specification. Some actuators have labels not black ink or pen per the specification.
 - Wiring inside the panels need to be labelled with labels not black ink or pen, some areas not labelled at all. The service techs need to be able to identify which wire goes to which actuator without having to trace the wire.
 - UPS needs to be labelled and identify what areas it is serving. The UPS needs to have power ran to the existing panels. Use area E as an example or coordinate with Brad.
 - All trash needs to be picked up and panels need to be cleaned on the inside.
 - Cable is not complete of existing pneumatic controls.
 - All panels and J-boxes are to have covers on them.
 - Conduit penetrating walls or floors are to be sealed.
 - Conduit is not supported or unsuited.
 - Screws on plywood are sticking out causing a possible safety issue.
 - Electrical panel schedule needs to be updated, not with pen. New breaker was not supplied for new incoming power.

The Blue dots will show the general area of the issues. Refer to the general notes to help identify the issue. You can also refer to the pictures that are attached for each area to help identify the issue. The pictures are from KBM and Corey from TSC were present on this walk and are aware of all the differences that need to be corrected.



01 BUILDING 19 SECOND FLOOR PLAN AREA B - MECHANICAL AND ELECTRICAL
SCALE: 1/8" = 1'-0"



GENERAL NOTES

1. SEE PLAN SHEET FOR ALL NOTES. COORDINATE ALL WORK WITH THE PROJECT MANAGER AND THE PROJECT ENGINEER.
2. SEE PLAN SHEET FOR ALL NOTES. COORDINATE ALL WORK WITH THE PROJECT MANAGER AND THE PROJECT ENGINEER.
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8. SEE PLAN SHEET FOR ALL NOTES. COORDINATE ALL WORK WITH THE PROJECT MANAGER AND THE PROJECT ENGINEER.

Revised: 1/2021
 Project: 17939
 Date: 1/2021
 Description: Upgrade Pneumatic to Electronic Actuators
 Location: Collin County Justice Center
 4300 Community Ave. McKinney, Texas 75071



Collin County Justice Center
 Upgrade Pneumatic to Electronic Actuators
 4300 Community Ave. McKinney, Texas 75071

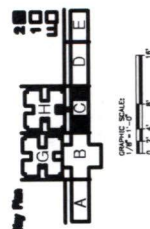
Revisions:
 Date: 1/2021
 Description: Upgrade Pneumatic to Electronic Actuators



SECOND FLOOR
 AREA B

Project No.
 17939

Sheet No.
 ME2.8



01 BUILDING 19 SECOND FLOOR PLAN AREA C - MECHANICAL AND ELECTRICAL

1. ALL EXISTING GASOLINE ACTIVATION LINES ARE EQUIPPED WITH VALVES AND SHALL BE CHANGED TO TYPE "T" VALVES. THE VALVES SHALL BE INSTALLED IN THE MAIN LINE AND THE BRANCHES TO THE ACTIVATION POINTS FOR ADDITIONAL PRODUCT DELIVERY TO THE ACTIVATION POINTS.
2. ALL EXISTING GASOLINE ACTIVATION LINES SHALL BE REPLACED WITH 1 1/2" SCHED 40S STEEL PIPE AND TO BE INSTALLED IN A UTILITY TRENCH WITH A MINIMUM COVER OF 18" TO 24" DEPENDENT ON LOCATION.
3. ALL EXISTING GASOLINE ACTIVATION LINES SHALL BE REPLACED WITH 1 1/2" SCHED 40S STEEL PIPE AND TO BE INSTALLED IN A UTILITY TRENCH WITH A MINIMUM COVER OF 18" TO 24" DEPENDENT ON LOCATION.
4. ALL EXISTING GASOLINE ACTIVATION LINES SHALL BE REPLACED WITH 1 1/2" SCHED 40S STEEL PIPE AND TO BE INSTALLED IN A UTILITY TRENCH WITH A MINIMUM COVER OF 18" TO 24" DEPENDENT ON LOCATION.
5. ALL EXISTING GASOLINE ACTIVATION LINES SHALL BE REPLACED WITH 1 1/2" SCHED 40S STEEL PIPE AND TO BE INSTALLED IN A UTILITY TRENCH WITH A MINIMUM COVER OF 18" TO 24" DEPENDENT ON LOCATION.
6. ALL EXISTING GASOLINE ACTIVATION LINES SHALL BE REPLACED WITH 1 1/2" SCHED 40S STEEL PIPE AND TO BE INSTALLED IN A UTILITY TRENCH WITH A MINIMUM COVER OF 18" TO 24" DEPENDENT ON LOCATION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT AND THE STATE OF TEXAS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT AND THE STATE OF TEXAS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT AND THE STATE OF TEXAS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT AND THE STATE OF TEXAS.

[illegible]

The items listed in this report are based on observations made during the site visit only and does not relieve the contractor of insuring that the installation as a whole conforms to the intent of the plans and specifications and all other contract documents.

Corey Shearer

MD Engineering, LLP,

Final Punch list actions agreed upon on
6/29/21 Punch List walk

Collin County Pneumatic to DDC Punch List		
Punch List Item	MD Engineering punch List 4/29/2020	Punch Walk actions agreed upon on 6/29/21
1	All panels, J-boxes, Disconnects, and wiring needs to be labeled with labels not black ink or pen per the specification. Some actuators have the labels on the back of them and you are unable to see them, label the J-box they go to for better identification not in black ink or Pen.	Confirmed All actuators will be labeled with a plaque on the visible side of the actuator. Approx 10 not labeled or on incorrect side of actuator.
2	UPS needs to be labeled and identify what areas it is serving. The UPS needs to have power ran to the existing panels. Use area E as an example or coordinate with Brad.	ABM will label UPSs, power is complete.
3	Wiring Diagram needs to be in a clear protective sleeve and not ducted taped to the back of the door.	Attach wiring schematics in plastic sleeves and place on inside of all control panels. Wiring to correspond with As-builts.
4	All trash needs to be pickup and panels need to be cleaned on the inside.	ABM will complete
5	Demo is not complete of existing Pneumatic controls	Demo pneumatics back to where they enter the mechanical rooms, Remove pneumatic holders from the walls. In rooms that still have a running air compressor, Corey will decide what can be demoed and what needs to remain
6	All material left over is to be taken off the job	ABM will complete
7	All panels and J-boxes are to have covers on them.	ABM will complete
8	Conduit penetrating walls or floors are to be sealed	Seal the conduit floor penetrations created for this project per photos
9	Conduit is not supported to Unistrut	Brace electrical conduit and panel walls
10	All Conduit to be 1" minimum	Not discussed- no action required
11	Screws on plywood are sticking out causing a possible safety issue	cut screws that extend through the backing of the panel walls
12	Electrical panel schedule needs to be updated, not with pen	Panel schedules will be updated as discussed on 2 Electrical panels.
13	New breaker was not supplied for new incoming power.	Not discussed- closed
14		All covers covers that are missing in the relay panels to be installed
15		All new Relay panels to be labeled on the front of panels