

DOMINGA "MINGA" VELA, President CARMEN GONZÁLEZ, Vice President OSCAR SALINAS, Secretary LUIS ALAMIA, Member MIGUEL "MIKE" FARIAS, Member LETICIA "LETTY" GARCIA, Member XAVIER SALINAS, Member

Dr. Mario H. Salinas, Superintendent

ADDENDUM 1 CSP 22-92

Cavazos Elementary School Heating & Air Condition (HVAC) Improvements Funded through the Elementary & Secondary Emergency Relief (ESSER) Funds

May 31, 2022

I. INSTRUCTIONS:

A. The following changes, omissions or alterations to the specification and drawings shall be made insofar as the specifications and drawings are inconsistent with following, this addendum shall govern.

B. Acknowledge receipt of this addendum by inserting its number and date of issue in the place provided for same in the proposal. This addendum forms a part of the Contract Documents.

C. It is imperative that this addendum be inserted INTO set of specifications.

II. SEE ADDENDUM BELOW:

Items No. 1 - 20

A. See attached Report from DBR, Engineering.

amaro Tycina

Item No. 21 - Asbestos Report:

A. PLM Summary Report - See attached.

Respectfully Submitted,

Amaro Tijerina
Director of Purchasing

(Signature of authorized officer) Date

Company Name



Addendum

DATE

May 26, 2022

ADDENDUM NO.

1

PROJECT 218007.005 | Edinburg CISD - Cayetano Cavazos ES - HVAC Improvements

The work described herein shall be added to the scope of work defined by the contract documents or it shall modify the scope of work defined by the contract documents as described. This work shall become a part of the contract documents by addendum.

GENERAL

Item 01 Questions:

- A. Will there be an access door located on the FCU's platform or some type of regulator for the Return Air Volume Damper? Reason being is because the return plenum sealed will have to be broken to access the MVD after being sealed by the mechanical contractor.
 - 1. Response: Refer to item 9 for revision of details indicating a remote damper operator.

SPECIFICATIONS

Item 02 Specification 26 03 13 Electrical Demolition for Remodeling

Added specification 26 03 13 Electrical Demolition for Remodeling in its entirety.

DRAWINGS

Item 03 Sheet MD2.11A – Level 1 Mechanical Plan – Demolition – Area A

A. Revised keyed notes 3, 4, 5.

Item 04 MD2.12B – Level 1 Mechanical Plan – Demolition – Area B

A. Revised keyed notes 3, 4, 5.

Item 05 MD2.13C – Level 1 Mechanical Plan – Demolition – Area C

A. Revised keyed notes 1, 3, 5.

B. Corrected keyed note on existing condensing unit on roof.

Item 06 MD2.14D – Level 1 Mechanical Plan – Demolition – Area D

A. Revised keyed notes 3, 5, 7, 10.

Item 07 M2.13C – Level 1 Mechanical Plan – Area C

Addendum No. 1

- A. Revised keyed notes 1, 7.
- B. Indicate condensate piping for RTU-3, 4.
- C. Added H'stat for RTU-3 and RTU-4.
- D. Added ceiling mounted exhaust fan EF-1 in Clinic 237. Route exhaust duct as indicated on M2.13C. Route up to gravity hood GH-8 on roof. Coordinate final gravity hood location and roof opening with structural members. Refer to detail 19/M4.01 AND 25/M4.01.

Item 08 M2.14D – Level 1 Mechanical Plan – Area D

- A. Revised keyed notes 7, 12, 15.
- B. Indicate condensate piping for RTU-1 and RTU-2.
- C. Added H'stat for RTU-1and RTU-2.

Item 09 M4.01 – Mechanical Details

- A. Revised Details 1, 2, 3.
- B. Added detail 24/M4.01.
- C. Added detail 25/M4.01.

Item 10 M5.01 – Mechanical Schedules

- A. Revised DX Roof top unit schedule.
- B. Added exhaust fan EF-1 scheduled.
- C. Added gravity hood schedule GH-8.

Item 11 M6.01 – Mechanical Controls

- A. Revised Mechanical Controls 1, 3, 4
- B. Note quantity of fans. Contractor shall field verify locations.

Item 12 EPD2.11A – LEVEL 1 ELECTRICAL POWER PLAN – DEMOLITION – AREA A

A. Revised keyed note 2.

Item 13 EPD2.12B – LEVEL 1 ELECTRICAL POWER PLAN – DEMOLITION – AREA B

A. Revised keyed note 2.

Item 14 EPD2.13C – LEVEL 1 ELECTRICAL POWER PLAN – DEMOLITION – AREA C

- A. Revised keyed note 2.
- B. Added keyed note 3.

Item 15 EPD2.14D – LEVEL 1 ELECTRICAL POWER PLAN – DEMOLITION – AREA D

- A. Revised keyed note 2.
- B. Added keyed note 3.

Item 16 EP2.11A – LEVEL 1 ELECTRICAL POWER PLAN – AREA A

- A. Revised keyed notes.
- B. Added keyed notes 3 and 4.

Addendum No. 1

Item 17 EP2.12B – LEVEL 1 ELECTRICAL POWER PLAN – AREA B

- A. Revised keyed notes.
- B. Added keyed note 4.

Item 18 EP2.13C – LEVEL 1 ELECTRICAL POWER PLAN – AREA C

- A. Revised keyed notes.
- B. Added keyed note 9.

Item 19 EP2.14D – LEVEL 1 ELECTRICAL POWER PLAN – AREA D

A. Revised keyed notes.

Item 20 E6.01 – ELECTRICAL DETAILS

- A. Added electrical detail.
- B. Revised feeder schedule.

END OF ADDENDUM

SECTION 26 03 13

ELECTRICAL DEMOLITION FOR REMODELING

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Electrical demolition.
- B. The contractor shall be responsible for loss or damage to the existing facilities caused by him and his workmen, and shall be responsible for repairing such loss or damage. The contractor shall send proper notices, make necessary arrangements, and perform other services required for the care, protection and in-service maintenance of all electrical services for the new and existing facilities. The contractor shall erect temporary barricades, with necessary safety devices, as required to protect personnel from injury, removing all such temporary protection upon completion of the work.
- C. Outages of services as required by the new installation will be permitted but only at a time approved by the Owner. The contractor shall allow the Owner 2 weeks in order to schedule required outages. The time allowed for outages will not be during normal working hours unless otherwise approved by the Owner. All costs of outages, including overtime charges, shall be included in the contract amount.

PART 2 - PRODUCTS

2.1 MATERIALS AND EQUIPMENT

- A. Materials and equipment for patching and extending work: As specified in individual Sections.
- B. Include in the contract price all rerouting of existing conduits, wiring, outlet boxes, fixtures, etc., and the reconnecting of existing fixtures as necessitated by field conditions to allow the installation of the new systems. Furnish all temporary conduit, wiring, boxes, etc., as required to maintain lighting and power service for the existing areas with a minimum of interruption. Remove wire and conduit back to nearest accessible active junction box and extend to existing homeruns as required.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify field measurements and circuiting arrangements are as shown on Drawings.
- B. Verify that abandoned wiring and equipment serve only abandoned facilities.
- C. Demolition Drawings are based on casual field observation and existing record documents. Report discrepancies to Owner before disturbing existing installation.
- D. Beginning of demolition means installer accepts existing conditions.

3.2 PREPARATION

A. Provide temporary wiring and connections to maintain existing systems in service during construction. When work must be performed on energized equipment or circuits use personnel experienced in such operations.

3.3 DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK

A. Remove, relocate, and extend existing installations to accommodate new construction.

- B. Disconnect and remove electrical devices and equipment serving utilization equipment that has been removed.
- C. Repair adjacent construction and finishes damaged during demolition and extension work.
- Maintain access to existing electrical installations which remain active. Modify installation or provide access panel as appropriate.
- E. Extend existing installations using materials and methods compatible with existing electrical installations, or as specified.
- F. Where existing construction is removed to provide working and extension access to existing utilities, contractor shall remove doors, piping, conduit, outlet boxes, wiring, light fixtures, air conditioning ductwork and equipment, etc., to provide this access and shall reinstall same upon completion of work in the areas affected.
- G. During the construction and remodeling, portions of the project shall remain in service. Construction equipment, materials, tools, extension cords, etc., shall be arranged so as to present minimum hazard or interruption to the occupants of the building.
- H. All existing lighting fixtures, switches, outlets, speakers, materials, equipment and appurtenances not included in the remodel or alteration areas are to remain in place and shall remain in service.
- I. Electrical equipment, outlets, speakers, circuits to mechanical and building systems equipment, etc., which are to remain but which are served by conduit and/or circuiting that is disturbed by the remodeling work, shall be reconnected in such as manner as to leave it in proper operating condition.
- J. Existing branch circuit wiring which is to be removed, shall be pulled from the raceways and the empty conduit shall be removed to a point of permanent concealment.
- K. New circuiting indicated to be connected to existing panels shall be connected to "spares" and/or "released" breakers as applicable, or new breakers provided where space is available. Contractor shall verify the existing panel load and feeder capacity prior to adding any additional loads.

3.4 CLEANING AND REPAIR

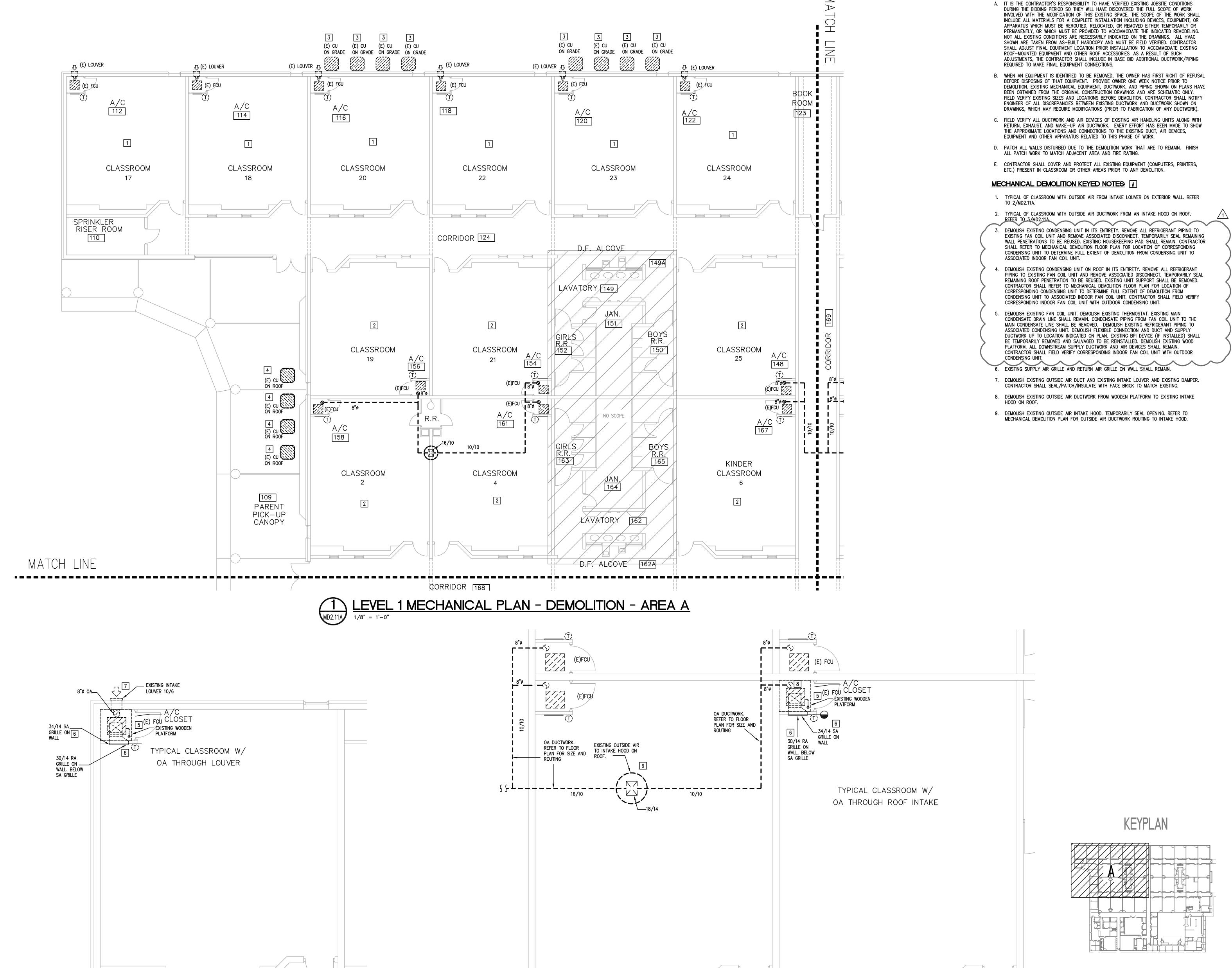
- A. Clean and repair existing materials and equipment which remain or are to be reused.
- B. Panelboards: Clean exposed surfaces and check tightness of electrical connections. Replace damaged circuit breakers and provide closure plates for vacant positions. Provide typed circuit directory showing revised circuiting arrangement.

3.5 REMOVAL OF MATERIALS

- A. The contractor shall modify, remove, and/or relocate all materials and items so indicated on the drawings or required by the installation of new facilities. All removals and/or dismantling shall be conducted in a manner as to produce maximum salvage. Salvage materials shall remain the property of the Owner, and shall be delivered to such destination as directed by the Owner. Materials and/or items scheduled for relocation and which are damaged during dismantling or reassembly operations shall be repaired and restored to good operative condition. The contractor may, at his discretion and upon the approval of the Owner, substitute new materials and/or items of like design and quality in lieu of materials and/or items to be relocated.
- B. All items which are to be relocated shall be carefully removed in reverse to original assembly or placement and protected until relocated. The contractor shall clean, repair, and provide all new materials, fittings, and appurtenances required to complete the relocations and to restore to good operative order. All relocations shall be performed by workmen skilled in the work and in accordance with standard practice of the trades involved.

- C. When items scheduled for relocation are found to be in damaged condition before work has been started on dismantling, the contractor shall call the attention of the Owner to such items and receive further instructions before removal. Items damaged in repositioning operations are the contractor's responsibility and shall be repaired or replaced by the contractor as approved by the Owner, at no additional cost to the Owner.
- D. Service lines and wiring to items to be removed, salvaged, or relocated shall be removed to points indicated on the drawings, specified, or acceptable to the Owner. Service lines and wiring not scheduled for reuse shall be removed to the points at which reuse is to be continued or service is to remain. Such services shall be sealed, capped, or otherwise tied-off or disconnected in a safe manner acceptable to the Owner. All disconnections or connections into the existing facilities shall be done in such a manner as to result in minimum interruption of services to adjacent occupied areas. Services to existing areas or facilities which must remain in operation during the construction period shall not be interrupted without prior specific approval of the Owner as hereinbefore specified.

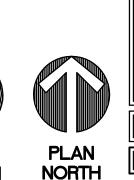
END OF SECTION 26 03 13



TYPICAL MECHANICAL PLAN - DEMOLITION - LOUVER INTAKE - AREA A

TYPICAL MECHANICAL PLAN - DEMOLITION - ROOF INTAKE - AREA A

1/4"=1'-0"



Mc Allen, Texas 78501 956.683.1640 p 956.683.1903 f TBPE Firm Registration No. 2234 218007.005 HA MG JB/JR -- --

MECHANICAL DEMOLITION GENERAL NOTES:

No. / DATE / DESCRIPTION 1 05/26/2022 ADDENDUM 1

HUGO H. AVILA 05-26-2022

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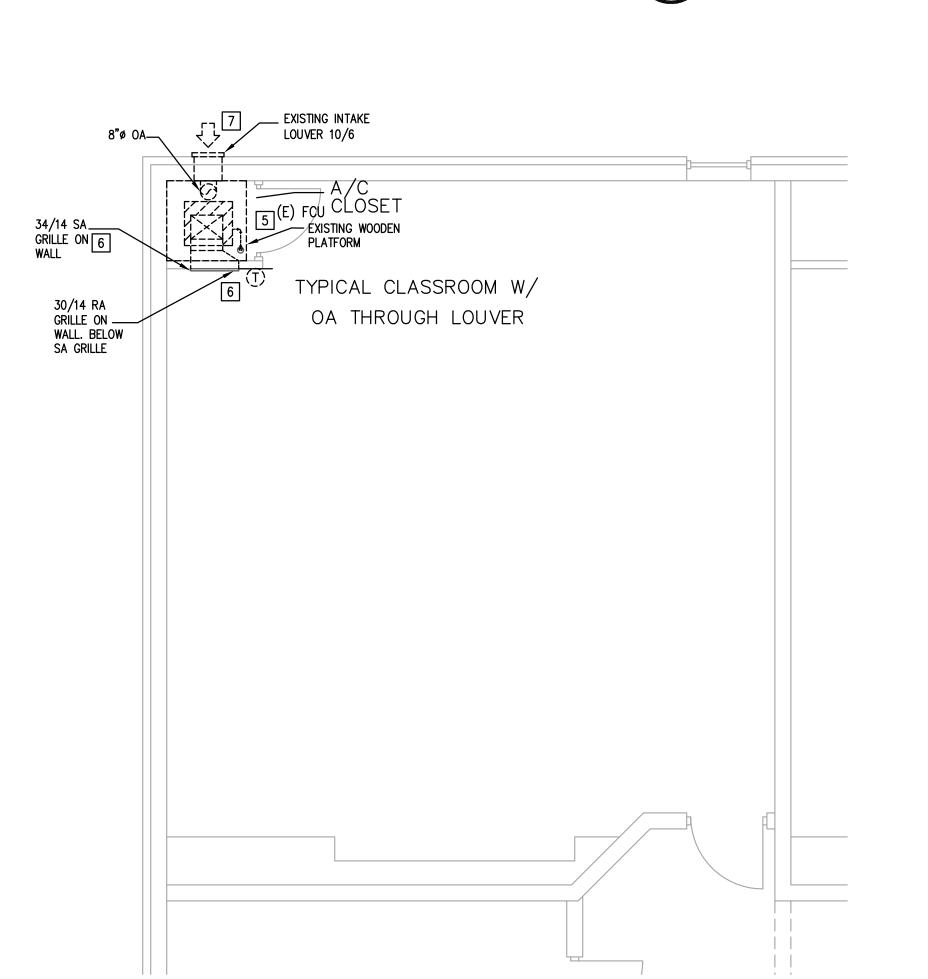
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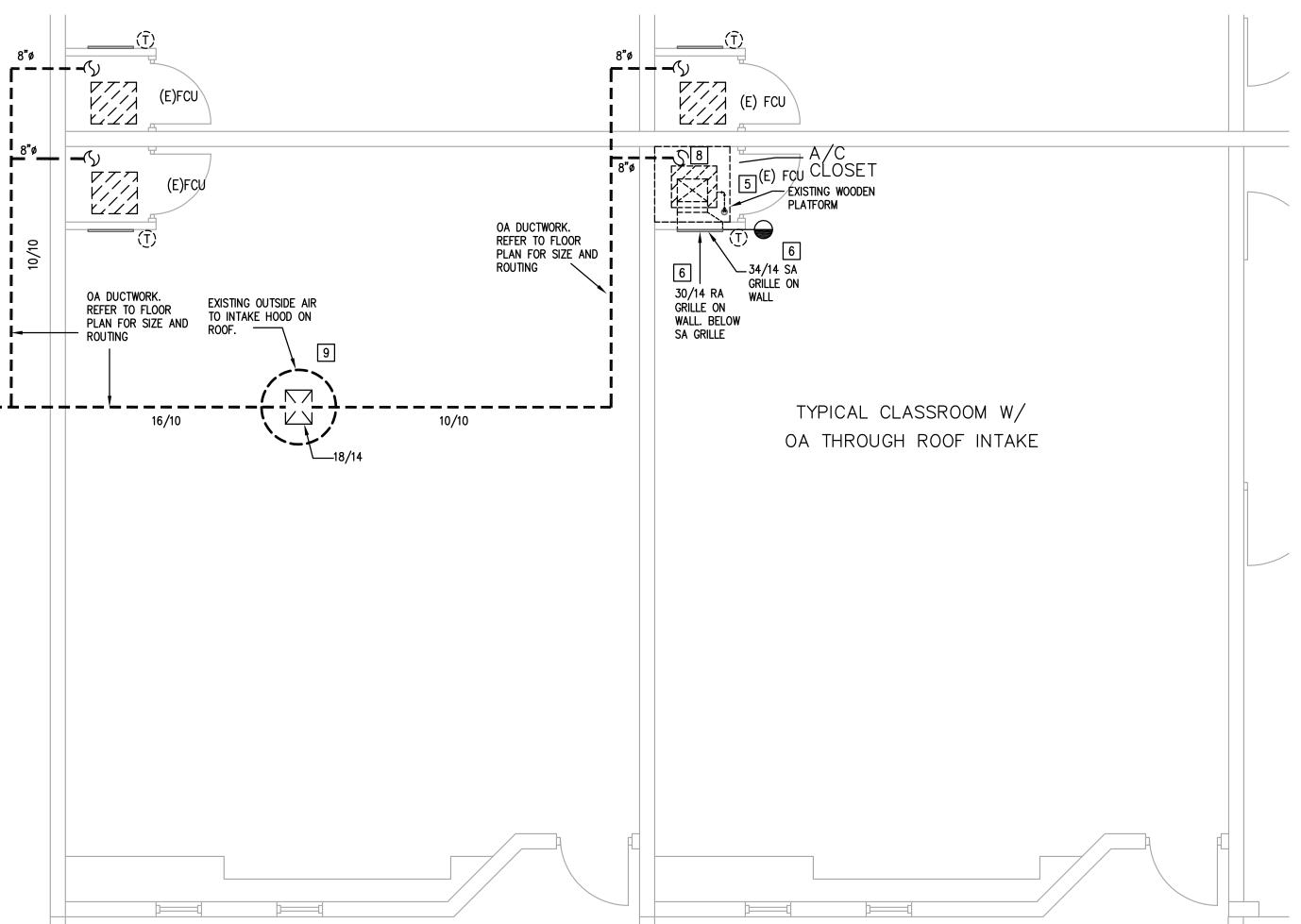
SHEET TITLE: LEVEL 1

MECHANICAL PLAN - DEMOLITION -AREA A

SHEET NUMBER:

MD2.11A





TYPICAL MECHANICAL PLAN - DEMOLITION- ROOF INTAKE - AREA B

MECHANICAL DEMOLITION GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD SO THEY WILL HAVE DISCOVERED THE FULL SCOPE OF WORK INVOLVED WITH THE MODIFICATION OF THIS EXISTING SPACE. THE SCOPE OF THE WORK SHALL INCLUDE ALL MATERIALS FOR A COMPLETE INSTALLATION INCLUDING DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED TO ACCOMMODATE THE INDICATED REMODELING. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON THE DRAWINGS. ALL HVAC SHOWN ARE TAKEN FROM AS-BUILT HARDCOPY AND MUST BE FIELD VERIFIED. CONTRACTOR SHALL ADJUST FINAL EQUIPMENT LOCATION PRIOR INSTALLATION TO ACCOMMODATE EXISTING ROOF-MOUNTED EQUIPMENT AND OTHER ROOF ACCESSORIES. AS A RESULT OF SUCH ADJUSTMENTS, THE CONTRACTOR SHALL INCLUDE IN BASE BID ADDITIONAL DUCTWORK/PIPING REQUIRED TO MAKE FINAL EQUIPMENT CONNECTIONS.
- B. WHEN AN EQUIPMENT IS IDENTIFIED TO BE REMOVED, THE OWNER HAS FIRST RIGHT OF REFUSAL BEFORE DISPOSING OF THAT EQUIPMENT. PROVIDE OWNER ONE WEEK NOTICE PRIOR TO DEMOLITION. EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN ON PLANS HAVE BEEN OBTAINED FROM THE ORIGINAL CONSTRUCTION DRAWINGS AND ARE SCHEMATIC ONLY. FIELD VERIFY EXISTING SIZES AND LOCATIONS BEFORE DEMOLITION. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL DISCREPANCIES BETWEEN EXISTING DUCTWORK AND DUCTWORK SHOWN ON DRAWINGS, WHICH MAY REQUIRE MODIFICATIONS (PRIOR TO FABRICATION OF ANY DUCTWORK).
- C. FIELD VERIFY ALL DUCTWORK AND AIR DEVICES OF EXISTING AIR HANDLING UNITS ALONG WITH RETURN. EXHAUST. AND MAKE-UP AIR DUCTWORK. EVERY EFFORT HAS BEEN MADE TO SHOW THE APPROXIMATE LOCATIONS AND CONNECTIONS TO THE EXISTING DUCT, AIR DEVICES,
- D. PATCH ALL WALLS DISTURBED DUE TO THE DEMOLITION WORK THAT ARE TO REMAIN. FINISH ALL PATCH WORK TO MATCH ADJACENT AREA AND FIRE RATING.
- E. CONTRACTOR SHALL COVER AND PROTECT ALL EXISTING EQUIPMENT (COMPUTERS, PRINTERS,

MECHANICAL DEMOLTION KEYED NOTES:

EQUIPMENT AND OTHER APPARATUS RELATED TO THIS PHASE OF WORK.

1. TYPICAL OF CLASSROOM WITH OUTSIDE AIR FROM INTAKE LOUVER ON EXTERIOR WALL. REFER

ETC.) PRESENT IN CLASSROOM OR OTHER AREAS PRIOR TO ANY DEMOLITION.

- 2. TYPICAL OF CLASSROOM WITH OUTSIDE AIR DUCTWORK FROM AN INTAKE HOOD ON ROOF.
- DEMOLISH EXISTING CONDENSING UNIT IN ITS ENTIRETY. REMOVE ALL REFRIGERANT PIPING TO EXISTING FAN COIL UNIT AND REMOVE ASSOCIATED DISCONNECT. TEMPORARILY SEAL REMAINING WALL PENETRATIONS TO BE REUSED. EXISTING HOUSEKEEPING PAD SHALL REMAIN. CONTRACTOR SHALL REFER TO MECHANICAL DEMOLITION FLOOR PLAN FOR LOCATION OF CORRESPONDING CONDENSING UNIT TO DETERMINE FULL EXTENT OF DEMOLITION FROM CONDENSING UNIT TO ASSOCIATED INDOOR FAN COIL UNIT.
- DEMOLISH EXISTING CONDENSING UNIT ON ROOF IN ITS ENTIRETY. REMOVE ALL REFRIGERANT PIPING TO EXISTING FAN COIL UNIT AND REMOVE ASSOCIATED DISCONNECT. TEMPORARILY SEAL REMAINING ROOF PENETRATION TO BE REUSED. EXISTING UNIT SUPPORT SHALL BE REMOVED. CONTRACTOR SHALL REFER TO MECHANICAL DEMOLITION FLOOR PLAN FOR LOCATION OF CORRESPONDING CONDENSING UNIT TO DETERMINE FULL EXTENT OF DEMOLITION FROM CONDENSING UNIT TO ASSOCIATED INDOOR FAN COIL UNIT. CONTRACTOR SHALL FIELD VERIFY CORRESPONDING INDOOR FAN COIL UNIT WITH OUTDOOR CONDENSING UNIT.
- DEMOLISH EXISTING FAN COIL UNIT. DEMOLISH EXISTING THERMOSTAT. EXISTING MAIN CONDENSATE DRAIN LINE SHALL REMAIN. CONDENSATE PIPING FROM FAN COIL UNIT TO THE MAIN CONDENSATE LINE SHALL BE REMOVED. DEMOLISH EXISTING REFRIGERANT PIPING TO ASSOCIATED CONDENSING UNIT. DEMOLISH FLEXIBLE CONNECTION AND DUCT AND SUPPLY DUCTWORK UP TO LOCATION INDICATED ON PLAN. EXISTING BPI DEVICE (IF INSTALLED) SHALL BE TEMPORARILY REMOVED AND SALVAGED TO BE REINSTALLED. DEMOLISH EXISTING WOOD PLATFORM. ALL DOWNSTREAM SUPPLY DUCTWORK AND AIR DEVICES SHALL REMAIN. CONTRACTOR SHALL FIELD VERIFY CORRESPONDING INDOOR FAN COIL UNIT WITH OUTDOOR
- 6. EXISTING SUPPLY AIR GRILLE AND RETURN AIR GRILLE ON WALL SHALL REMAIN. 7. DEMOLISH EXISTING OUTSIDE AIR DUCT AND EXISTING INTAKE LOUVER AND EXISTING DAMPER.
- CONTRACTOR SHALL SEAL/PATCH/INSULATE WITH FACE BRICK TO MATCH EXISTING.
- 8. DEMOLISH EXISTING OUTSIDE AIR DUCTWORK FROM WOODEN PLATFORM TO EXISTING INTAKE HOOD ON ROOF.

9. DEMOLISH EXISTING OUTSIDE AIR INTAKE HOOD. TEMPORARILY SEAL OPENING. REFER TO MECHANICAL DEMOLITION PLAN FOR OUTSIDE AIR DUCTWORK ROUTING TO INTAKE HOOD. M M

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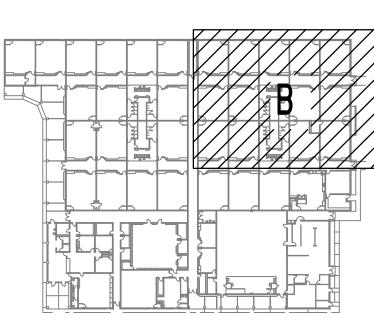
1 05/26/2022 ADDENDUM 1

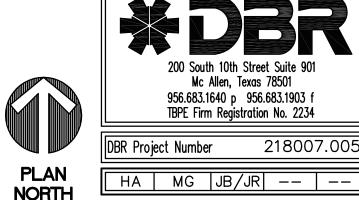
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05-26-2022

KEYPLAN





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MD2.12B

SHEET NUMBER:

05/05/2022

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218007.005

SHEET TITLE:

PROJECT NUMBER:

LEVEL 1

MECHANICAL PLAN

- DEMOLITION -

AREA B

2 MD2.12B

TYPICAL MECHANICAL PLAN - DEMOLITION - LOUVER INTAKE - AREA B

) LEVEL 1 MECHANICAL PLAN - DEMOLITION - AREA C

MECHANICAL DEMOLITION GENERAL NOTES:

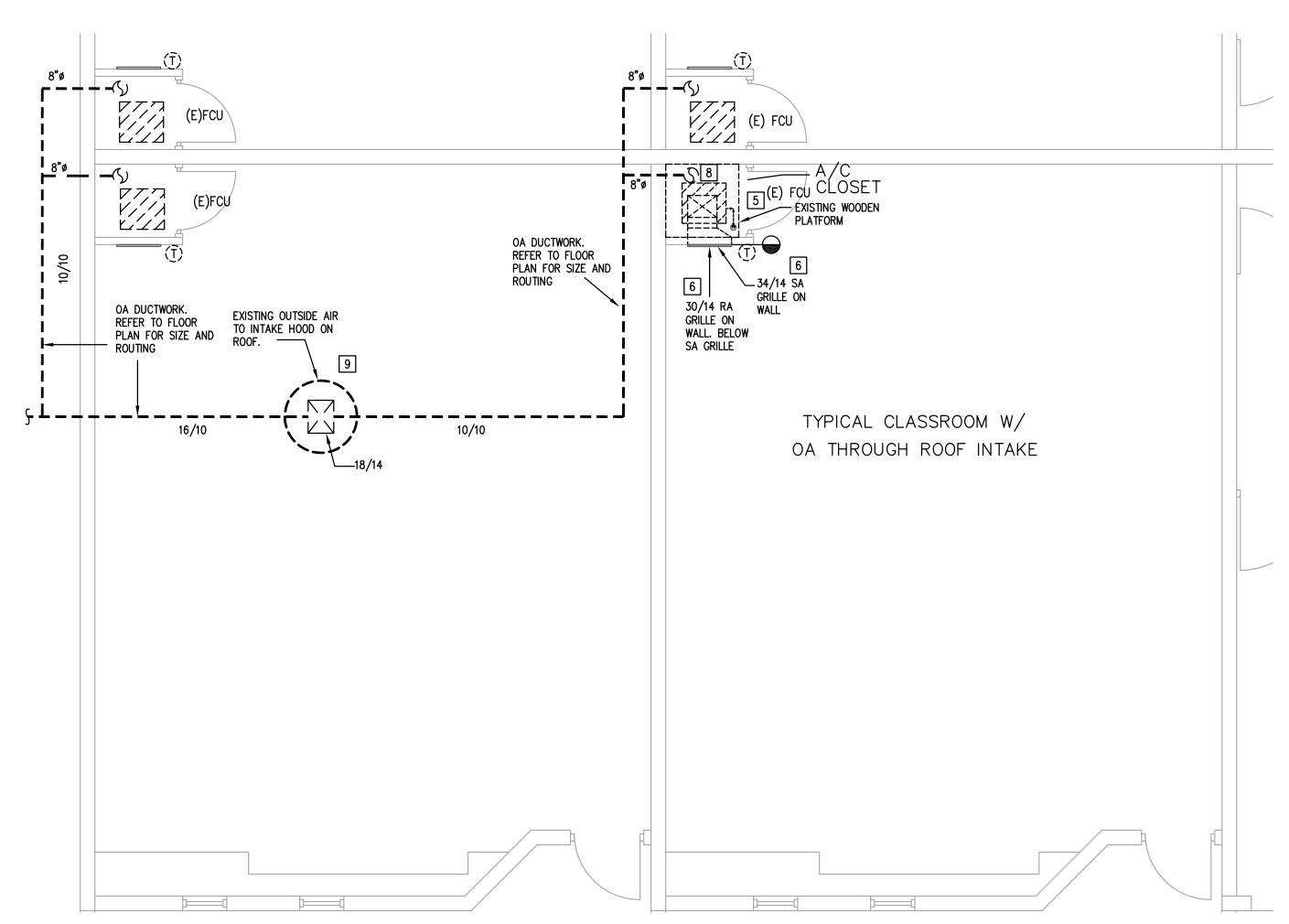
- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD SO THEY WILL HAVE DISCOVERED THE FULL SCOPE OF WORK INVOLVED WITH THE MODIFICATION OF THIS EXISTING SPACE. THE SCOPE OF THE WORK SHALL INCLUDE ALL MATERIALS FOR A COMPLETE INSTALLATION INCLUDING DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED TO ACCOMMODATE THE INDICATED REMODELING. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON THE DRAWINGS. ALL HVAC SHOWN ARE TAKEN FROM AS-BUILT HARDCOPY AND MUST BE FIELD VERIFIED. CONTRACTOR SHALL ADJUST FINAL EQUIPMENT LOCATION PRIOR INSTALLATION TO ACCOMMODATE EXISTING ROOF-MOUNTED EQUIPMENT AND OTHER ROOF ACCESSORIES. AS A RESULT OF SUCH ADJUSTMENTS, THE CONTRACTOR SHALL INCLUDE IN BASE BID ADDITIONAL DUCTWORK/PIPING REQUIRED TO MAKE FINAL EQUIPMENT CONNECTIONS.
- B. WHEN AN EQUIPMENT IS IDENTIFIED TO BE REMOVED, THE OWNER HAS FIRST RIGHT OF REFUSAL BEFORE DISPOSING OF THAT EQUIPMENT. PROVIDE OWNER ONE WEEK NOTICE PRIOR TO DEMOLITION. EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN ON PLANS HAVE BEEN OBTAINED FROM THE ORIGINAL CONSTRUCTION DRAWINGS AND ARE SCHEMATIC ONLY. FIELD VERIFY EXISTING SIZES AND LOCATIONS BEFORE DEMOLITION. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL DISCREPANCIES BETWEEN EXISTING DUCTWORK AND DUCTWORK SHOWN ON DRAWINGS, WHICH MAY REQUIRE MODIFICATIONS (PRIOR TO FABRICATION OF ANY DUCTWORK).
- C. FIELD VERIFY ALL DUCTWORK AND AIR DEVICES OF EXISTING AIR HANDLING UNITS ALONG WITH RETURN, EXHAUST, AND MAKE-UP AIR DUCTWORK. EVERY EFFORT HAS BEEN MADE TO SHOW THE APPROXIMATE LOCATIONS AND CONNECTIONS TO THE EXISTING DUCT, AIR DEVICES, EQUIPMENT AND OTHER APPARATUS RELATED TO THIS PHASE OF WORK.
- D. PATCH ALL WALLS DISTURBED DUE TO THE DEMOLITION WORK THAT ARE TO REMAIN. FINISH ALL PATCH WORK TO MATCH ADJACENT AREA AND FIRE RATING.
- E. CONTRACTOR SHALL COVER AND PROTECT ALL EXISTING EQUIPMENT (COMPUTERS, PRINTERS, ETC.) PRESENT IN CLASSROOM OR OTHER AREAS PRIOR TO ANY DEMOLITION.

MECHANICAL DEMOLITION KEYED NOTES: # DEMOLISH EXISTING ROOFTOP UNIT AND ELECTRICAL DISCONNECT. EXISTING ROOF CURB SHALL REMAIN. DEMOLISH EXISTING SUPPLY AND EXISTING RETURN DUCTWORK UP TO LOCATION INDICATED ON PLAN.TEMPORARILY CAP/SEAL CURB. REMOVE ASSOCIATED THERMOSTAT AND CONDENSATE PIPING UP TO LOCATION OF TERMINATION. TEMPORARILY CAP/SEAL CONDENSATE PIPE PENETRATION THROUGH ROOF. CONTRACTOR SHALL FIELD VERIFY CONDENSATE ROUTING.

TYPICAL OF CLASSROOM WITH OUTSIDE AIR DUCTWORK FROM AN INTAKE HOOD ON ROOF. REFER DEMOLISH EXISTING CONDENSING UNIT ON ROOF IN ITS ENTIRETY. REMOVE ALL REFRIGERANT

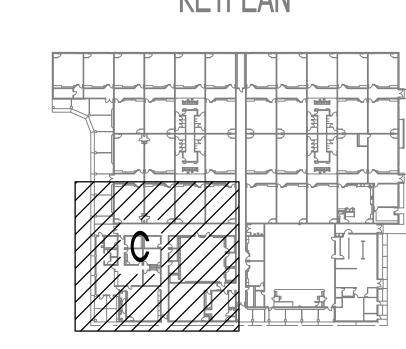
PIPING TO EXISTING FAN COIL UNIT AND REMOVE ASSOCIATED DISCONNECT. TEMPORARILY SEAL REMAINING ROOF PENETRATION TO BE REUSED. EXISTING UNIT SUPPORT SHALL BE REMOVED. CONTRACTOR SHALL REFER TO MECHANICAL DEMOLITION FLOOR PLAN FOR LOCATION OF CORRESPONDING CONDENSING UNIT TO DETERMINE FULL EXTENT OF DEMOLITION FROM CONDENSING UNIT TO ASSOCIATED INDOOR FAN COIL UNIT. CONTRACTOR SHALL FIELD VERIFY CORRESPONDING INDOOR FAN COIL UNIT WITH OUTDOOR CONDENSING UNIT.

- DEMOLISH EXISTING FAN COIL UNIT. DEMOLISH EXISTING THERMOSTAT. EXISTING MAIN CONDENSATE DRAIN LINE SHALL REMAIN. CONDENSATE PIPING FROM FAN COIL UNIT TO THE MAIN CONDENSATE LINE SHALL BE REMOVED. DEMOLISH EXISTING REFRIGERANT PIPING TO ASSOCIATED CONDENSING UNIT. DEMOLISH FLEXIBLE CONNECTION AND DUCT AND SUPPLY DUCTWORK UP TO LOCATION INDICATED ON PLAN. EXISTING BPI DEVICE (IF INSTALLED) SHALL BE TEMPORARILY REMOVED AND SALVAGED TO BE REINSTALLED. DEMOLISH EXISTING WOOD PLATFORM. ALL DOWNSTREAM SUPPLY DUCTWORK AND AIR DEVICES SHALL REMAIN. CONTRACTOR SHALL FIELD VERIFY CORRESPONDING INDOOR FAN COIL UNIT WITH OUTDOOR
- NOTE NOT USED.
- 8. DEMOLISH EXISTING OUTSIDE AIR DUCTWORK FROM WOODEN PLATFORM TO EXISTING INTAKE HOOD ON ROOF.

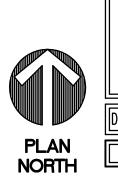


TYPICAL MECHANICAL PLAN - DEMOLITION - ROOF INTAKE - AREA C

KEYPLAN









REVISION: No. / DATE / DESCRIPTION 1 05/26/2022 ADDENDUM 1



05/05/2022

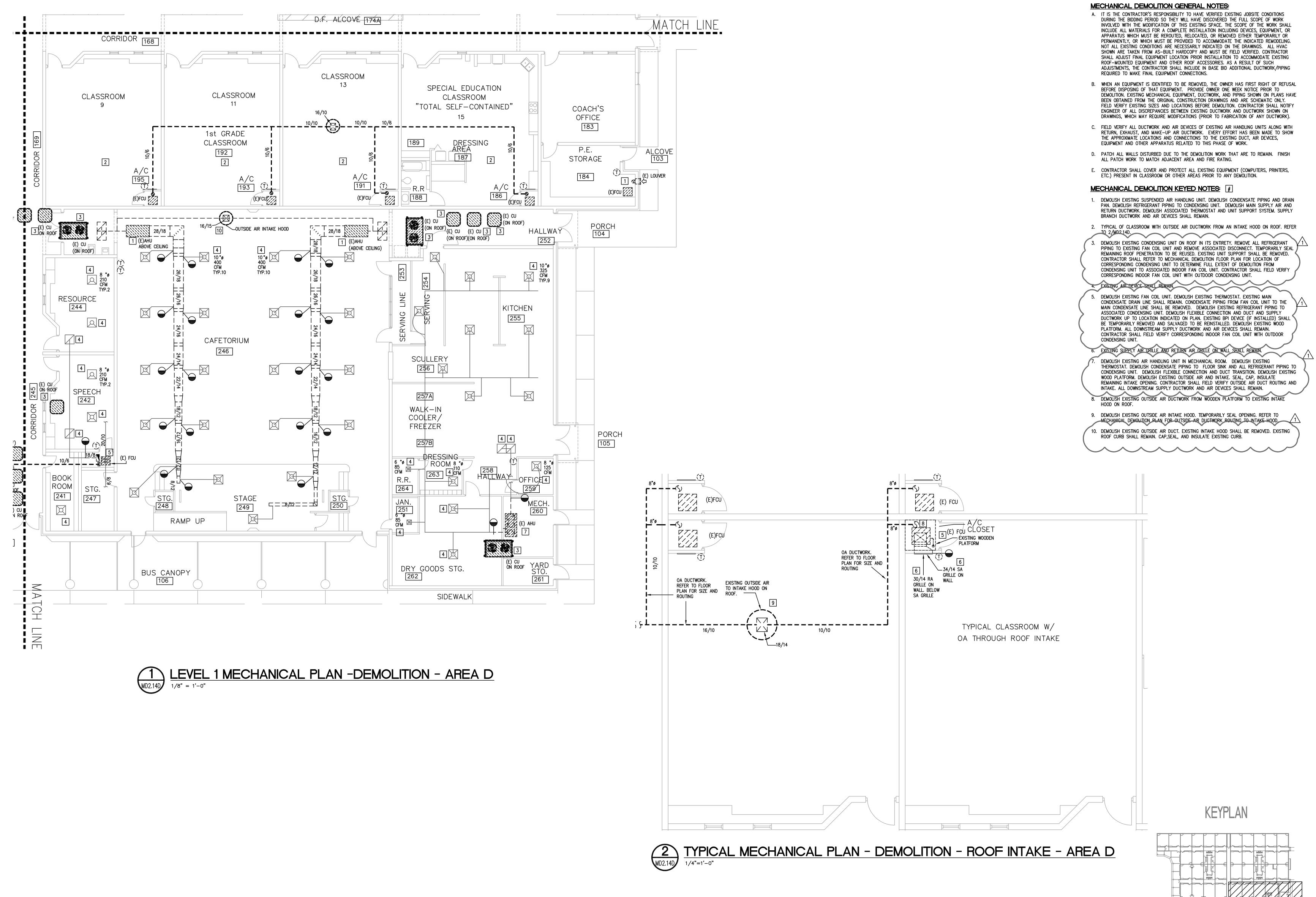
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PROJECT NUMBER: 218007.005 SHEET TITLE:

LEVEL 1 MECHANICAL PLAN - DEMOLITION -AREA C

SHEET NUMBER:

MD2.13C



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REVISION:

No. / DATE / DESCRIPTION 1 05/26/2022 ADDENDUM 1



05-26-2022

M M

218007.005

MD2.14D

LEVEL 1

MECHANICAL PLAN

- DEMOLITION -

AREA D

05/05/2022

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LEVEL 1 MECHANICAL PLAN - AREA C

1/8" = 1'-0"

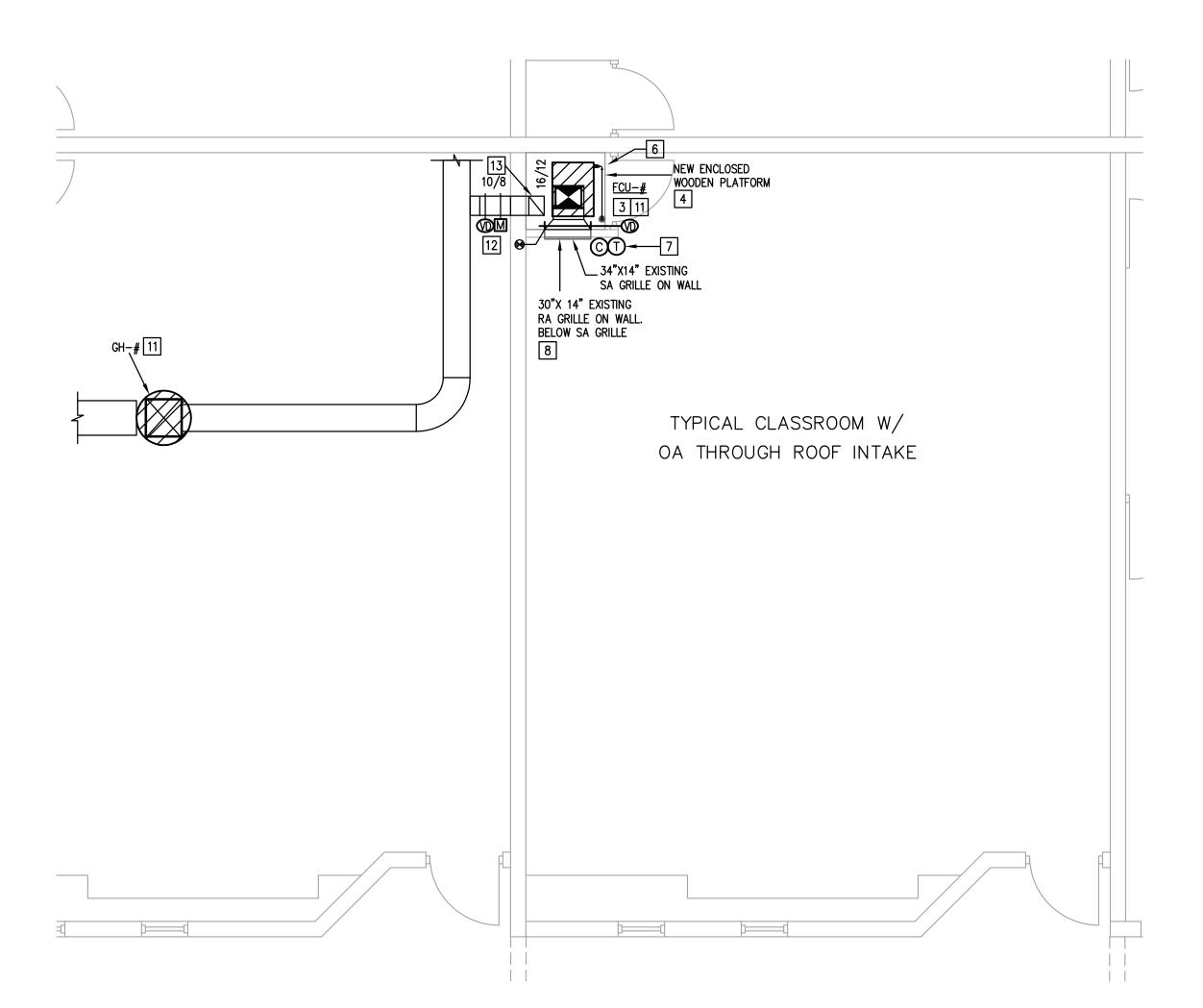
MECHANICAL GENERAL NOTES:

A. REFER TO MO.01 FOR MECHANICAL GENERAL NOTES.

PROVIDE ROOFTOP UNIT AS SCHEDULED AT LOCATION SHOWN. PROVIDE WITH ROOF CURB ADAPTOR. CONNECT NEW SUPPLY AND RETURN DUCTWORK TO EXISTING SUPPLY AND RETURN DUCTWORK. SIZE AS INDICATED ON PLAN. ROUTE 1-1/4" CONDENSATE PIPING THROUGH ROOF AND ROUTE TO FLOOR DRAIN AT NEAREST A/C CLOSÉT. RE: DETAIL 17/M4.01, 18/M4.01,

23/M4.01AND 25/M4.01. TYPICAL OF CLASSROOM WITH OUTSIDE AIR DUCTWORK FROM AN INTAKE HOOD ON ROOF. REFER TO 2/M2.13C.

- 3. PROVIDE VERTICAL FAN COIL UNIT AS SCHEDULED IN A/C CLOSET. PROVIDE FILTER BANK AT BOTTOM OF UNIT FOR 2" PLEATED MERV 13 FILTER. EXTEND WITH NEW SUPPLY DUCT AND CONNECT TO EXISTING SUPPLY AIR DEVICE ON WALL. CONTRACTOR SHALL REINSTALL BPI DEVICE (IF APPLICABLE) AND PROVIDE POWER. CONTRACTOR SHALL PROVIDE DUCTWORK TO MATCH EXISTING SIZE. RE: DETAIL 1/M4.01, 2/M4.01.
- 4. PROVIDE SEALED AND ENCLOSED WOODEN PLATFORM. CONTRACTOR SHALL FIELD ADJUST THE PLATFORM HEIGHT TO ALLOW FAN COIL TO FIT IN THE AVAILABLE HEIGHT SPACE. PLATFORM SHALL BE SEALED UNDERNEATH. PROVIDE MANUAL OPPOSED BLADE VOLUME DAMPER BEHIND EXISTING RETURN AIR GRILLE OR RETURN AIR BALANCING.. SIZE DAMPER EQUAL TO RETURN AIR GRILLE SIZE. CONTRACTOR SHALL CLEAN AND CLEAR EXISTING RETURN AIR AND SUPPLY AIR GRILLE OF DEBRIS/DIRT.
- 5. TEST AND BALANCE SHALL RE-BALANCE AIR DEVICE TO AIRFLOW AS INDICATED ON PLAN.
- 6. PROVIDE 1" TYPE L COPPER CONDENSATE PIPING WITH 1"INSULATION FROM UNIT.CONDENSATE PIPING SHALL DROP THROUGH EXISTING PVC PIPE. CONTRACTOR SHALL PROVIDE MODIFICATIONS AND ADD PVC PIPING TO ALLOW CLEARANCE NEEDED FOR VOLUME AND MOTORIZED DAMPER BELOW WOODEN PLATFORM. CONTRACTOR SHALL FIREWRAP EXISTING PVC PIPING. RE: DETAIL
- PROVIDE WALL-MOUNTED THERMOSTAT AND CARBON DIOXIDE SENSOR FOR ASSOCIATED MECHANICAL EQUIPMENT. PROVIDE HUMIDITY SENSOR WHERE INDICATED ON PLAN. LOCATE AND MOUNT AT PREVIOUS WALL LOCATION. CONNECT THERMOSTAT AND CARBON DIOXIDE SENSOR AND HUMIDITY SENSOR (WHERE INDICATED) TO NEW BAS.
- 9. PROVIDE INTAKE HOOD AS SCHEDULED. ROUTE OUTSIDE AID DUCTWORK TO NEW ROOF OPENING. CONTRACTOR SHALL COORDINATE ROUTING WITH EXISTING SITE CONDITIONS. PROVIDE NECESSARY DUCT TRANSITIONS. SIZE OUTSIDE AIR DUCTWORK AS INDICATED ON PLAN. RE: DETAIL 16/M4.01.
- 10. MOUNT CONDENSING UNIT ON ROOF AT PREVIOUS LOCATION. PROVIDE REFRIGERANT PIPING AND ROUTE TO ASSOCIATED FAN COIL UNIT. CONTRACTOR SHALL REFER TO MECHANICAL FLOOR PLAN FOR LOCATION OF FAN COIL UNITS AND ITS CORRESPONDING CONDENSING UNIT TO DETERMINE FULL EXTENT OF REFRIGERANT PIPE ROUTING. CONTRACTOR SHALL TAKE SAME REFRIGERANT PIPING PATH AS PREVIOUS ROUTING AND SEAL ROOF. PIPE LENGTH SHALL NOT EXCEED LENGTH AS PER MANUFACTURER RECOMMENDATIONS. COORDINATE WITH STRUCTURAL. RE: DETAIL 6/M4.01, 11/M4.01, AND 18/M4.01.
- 11. CONTRACTOR SHALL REFER TO MECHANICAL FLOOR PLANS FOR EQUIPMENT NAME TAGS AND LOCATION OF CORRESPONDING CLASSROOM FAN COIL UNIT, CONDENSING UNIT, AND ASSOCIATED
- 12. PROVIDE MOTORIZED DAMPER ON OUTSIDE AIR DUCTWORK AS INDICATED ON PLAN.
- 13. PROVIDE ENTIRELY NEW BAS SYSTEM WITH AN OWNER-APPROVED BAS AS NOTED IN MECHANICAL SPECIFICATIONS. COORDINATE FINAL LOCATION WITH SITE CONDITIONS AND OTHER DISCIPLINES. PROVIDE WITH 120V/1PH/Hz AND DATA DROP. COORDINATE FINAL LOCATION WITH

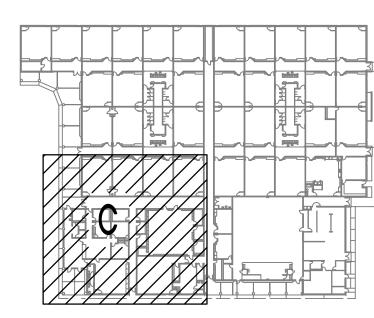


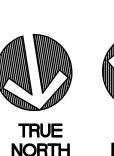


TYPICAL MECHANICAL PLAN - ROOF INTAKE - AREA C

1/4"=1'-0"

KEYPLAN









No. / DATE / DESCRIPTION 1 |05/26/2022|ADDENDUM 1

SEAL:



05-26-2022

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DATE: 05/05/2022

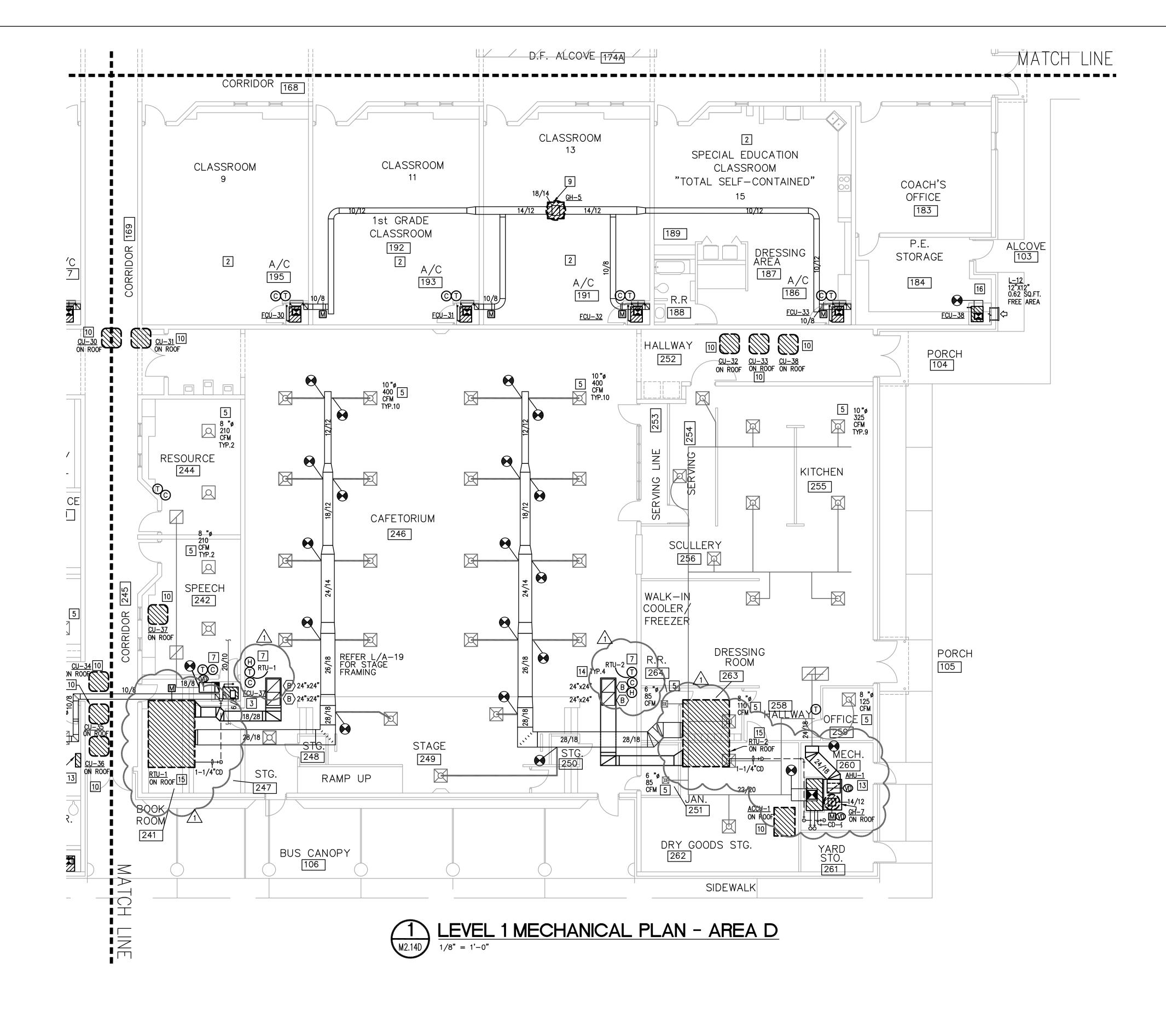
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PROJECT NUMBER: 218007.005 SHEET TITLE:

LEVEL 1 MECHANICAL PLAN -AREA C

SHEET NUMBER:

M2.13C



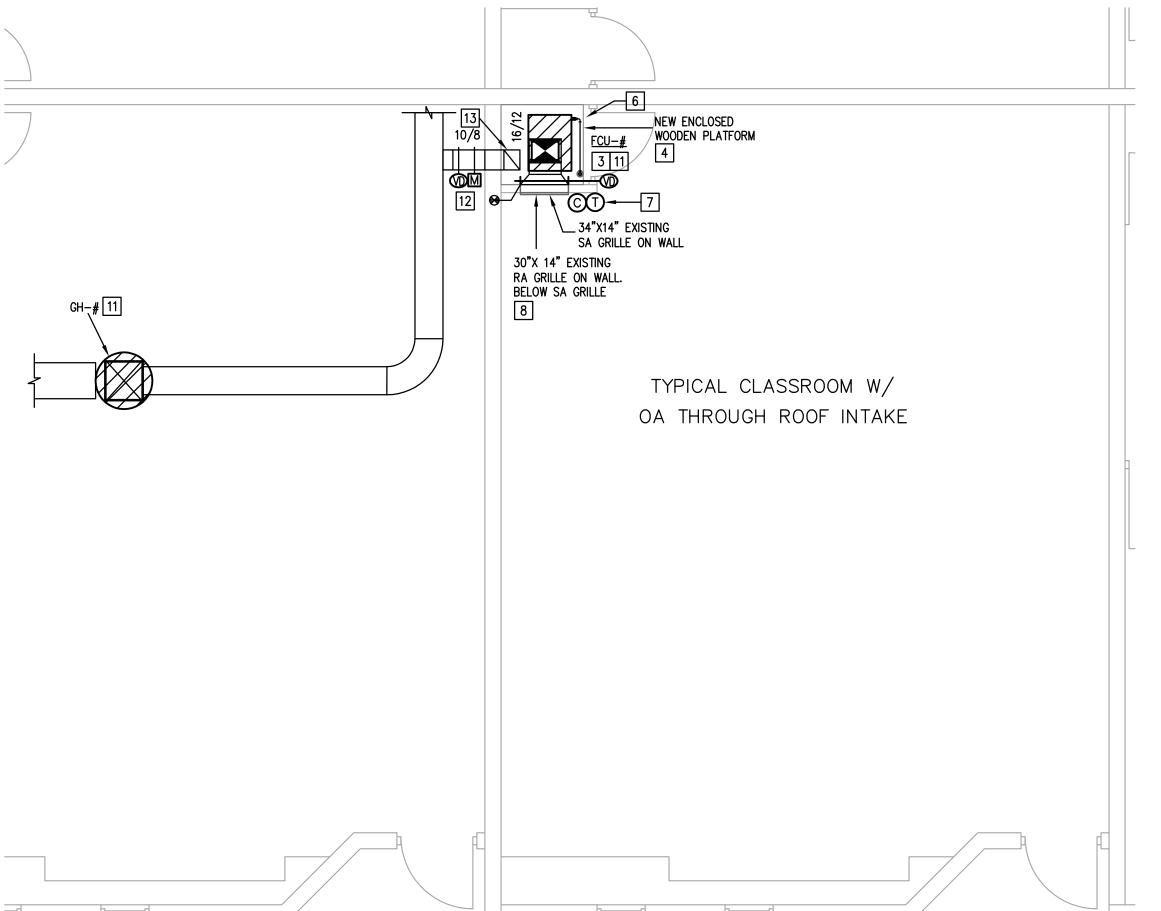
MECHANICAL GENERAL NOTES:

A. REFER TO MO.01 FOR MECHANICAL GENERAL NOTES.

MECHANICAL KEYED NOTES:

REFER TO 2/M2.14D.

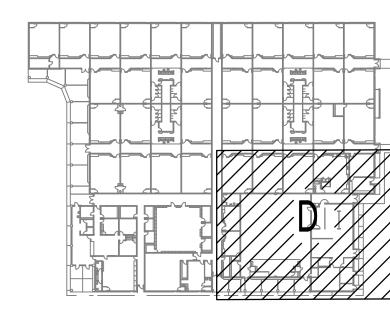
- 1. PROVIDE ROOF TOP UNIT AS SCHEDULED WITH ROOF CURB ADAPTOR. ROUTE CONDENSATE PIPING THROUGH ROOF TO PREVIOUS EXISTING FLOOR DRAIN/FLOOR SINK. COORDINATE WITH STRUCTURAL. RE: DETAIL 3/M4.01, 15/M4.01, AND 17/M4.01
- 2. TYPICAL OF CLASSROOM WITH OUTSIDE AIR DUCTWORK FROM AN INTAKE HOOD ON ROOF.
- 3. PROVIDE VERTICAL FAN COIL UNIT AS SCHEDULED IN A/C CLOSET. PROVIDE FILTER BANK AT BOTTOM OF UNIT FOR 2" PLEATED MERV 13 FILTER. EXTEND WITH NEW SUPPLY DUCT AND CONNECT TO EXISTING SUPPLY AIR DEVICE ON WALL. CONTRACTOR SHALL REINSTALL BPI DEVICE (IF APPLICABLE) AND PROVIDE POWER. CONTRACTOR SHALL PROVIDE DUCTWORK TO MATCH EXISTING SIZE. RE: DETAIL 1/M4.01, 2/M4.01.
- 4. PROVIDE SEALED AND ENCLOSED WOODEN PLATFORM. CONTRACTOR SHALL FIELD ADJUST THE PLATFORM HEIGHT TO ALLOW FAN COIL TO FIT IN THE AVAILABLE HEIGHT SPACE. PLATFORM SHALL BE SEALED UNDERNEATH. PROVIDE MANUAL OPPOSED BLADE VOLUME DAMPER BEHIND EXISTING RETURN AIR GRILLE OR RETURN AIR BALANCING.. SIZE DAMPER EQUAL TO RETURN AIR GRILLE SIZE. CONTRACTOR SHALL CLEAN AND CLEAR EXISTING RETURN AIR AND SUPPLY AIR GRILLE OF DEBRIS/DIRT.
- 5. TEST AND BALANCE SHALL RE-BALANCE AIR DEVICE TO AIRFLOW AS INDICATED ON PLAN.
- 6. PROVIDE 1" TYPE L COPPER CONDENSATE PIPING WITH 1"INSULATION FROM UNIT.CONDENSATE PIPING SHALL DROP THROUGH EXISTING PVC PIPE. CONTRACTOR SHALL PROVIDE MODIFICATIONS AND ADD PVC PIPING TO ALLOW CLEARANCE NEEDED FOR VOLUME AND MOTORIZED DAMPER BELOW WOODEN PLATFORM. CONTRACTOR SHALL FIREWRAP EXISTING PVC PIPING, RE: DETAIL
- 7. PROVIDE WALL-MOUNTED THERMOSTAT AND CARBON DIOXIDE SENSOR FOR ASSOCIATED MECHANICAL EQUIPMENT. PROVIDE HUMIDITY SENSOR WHERE INDICATED ON PLAN. LOCATE AND MOUNT AT PREVIOUS WALL LOCATION. CONNECT THERMOSTAT AND CARBON DIOXIDE SENSOR AND HUMIDITY SENSOR (WHERE INDICATED) TO NEW BAS.
- 8. RETURN AIR GRILLE ON DOOR/WALL SHALL REMAIN. FILTER SHALL BE REMOVED.
- PROVIDE INTAKE HOOD AS SCHEDULED. ROUTE OUTSIDE AID DUCTWORK TO NEW ROOF OPENING. CONTRACTOR SHALL COORDINATE ROUTING WITH EXISTING SITE CONDITIONS. PROVIDE NECESSARY DUCT TRANSITIONS. SIZE OUTSIDE AIR DUCTWORK AS INDICATED ON PLAN. RE: DETAIL 16/M4.01.
- 10. MOUNT CONDENSING UNIT ON ROOF AT PREVIOUS LOCATION. PROVIDE REFRIGERANT PIPING AND ROUTE TO ASSOCIATED FAN COIL UNIT. CONTRACTOR SHALL REFER TO MECHANICAL FLOOR PLAN FOR LOCATION OF FAN COIL UNITS AND ITS CORRESPONDING CONDENSING UNIT TO DETERMINE FULL EXTENT OF REFRIGERANT PIPE ROUTING. CONTRACTOR SHALL TAKE SAME REFRIGERANT PIPING PATH AS PREVIOUS ROUTING AND SEAL ROOF. PIPE LENGTH SHALL NOT EXCEED LENGTH AS PER MANUFACTURER RECOMMENDATIONS. COORDINATE WITH STRUCTURAL. RE: DETAIL 6/M4.01, 11/M4.01, AND 18/M4.01.
- 11. CONTRACTOR SHALL REFER TO MECHANICAL FLOOR PLANS FOR EQUIPMENT NAME TAGS AND LOCATION OF CORRESPONDING CLASSROOM FAN COIL UNIT, CONDENSING UNIT, AND ASSOCIATED LOUVER (INTAKE HOOD.
- 12. PROVIDE VOLUME DAMPER AND MOTORIZED DAMPER ON OUTSIDE AIR DUCTWORK AS INDICATED
- 13. PROVIDE AIR HANDLING UNIT AS SCHEDULED AND MOUNT ON 4" HOUSEKEEPING PAD. PROVIDE WITH NEW TEMPERATURE SENSOR. PROVIDE NEW TYPE L COPPER CONDENSATE PIPING WITH 1" INSULATION FROM UNIT TO EXISTING TERMINATION. ROUTE REFRIGERANT PIPING TO ASSOCIATED CONDENSING UNIT ON ROOF. PROVIDE 2" PLEATED MERV 13 FILTER. PROVIDE PLENUM BOX. PROVIDE RETURN AND SUPPLY DUCTWORK AND CONNECT TO EXISTING. SIZE AS INDICATED ON PLAN. ROUTE OUTSIDE AIR DUCT UP THROUGH ROOF TO INTAKE HOOD ON ROOF. COORDINATE DUCT ROUTING THROUGH ROOF WITH STRUCTURAL MEMBERS.
- 14. PROVIDE NEW RETURN AIR DEVICE EQUAL TO TITUS 50F 24"X24" EGGCRATE; ALUMINUM CONSTRUCTION.
- 15. PROVIDE ROOF TOP UNIT WITH 14" PREFABRICATED ROOF CURB. COORDINATE WITH STRUCTURAL PLANS. RETURN AND SUPPLY DUCTWORK SHALL GO THROUGH WALL. ROUTE 1–1/4" CONDENSATE PIPING THROUGH ROOF AND ROUTE TO NEAREST FLOOR DRAIN AT LOCATION INDICATED ON PLAN. RE: DETAIL 4/M4.01, 14/M4.01, 15/M4.01, 17/M4.01, 18/M4.01, AND 23/M4.01, AND 24/M4.01.
- 16. TYPICAL OF CLASSROOM WITH OUTSIDE AIR FROM INTAKE LOUVER ON EXTERIOR WALL. REFER TO 2/M2.11A.



TYPICAL MECHANICAL PLAN - ROOF INTAKE - AREA D

1/4"=1'-0"

KEYPLAN









210.546.0200 v 210.546.0201 f Sol McAllister Freeway, Suite 410 San Antonio, Texas 78216

REVISION:
No. / DATE / DESCRIPTION

/ DATE / DESCRIPTION 1

SEAL:



SCHOOL DISTRICT

MPROVEMENTS

EN, TX 78504

EDINBURG CONSOLIDATED INDEPENDENT SC SAYETANO CAVAZOS ES - HVAC II 1501 FREDDY GONZALEZ DR, MCALLEN,

DATE: 05/05/2022 DRAWN BY: DBR

CHECKED BY:

DBR

PROJECT NUMBER:

PROJECT NUMBER:
218007.005
SHEET TITLE:

LEVEL 1
MECHANICAL PLAN
- AREA D

SHEET NUMBER:

M2.14D

′ DATE / DESCRIPTION 1 |05/26/2022|ADDENDUM 1

SEAL:



M M RC 785

05/05/2022 DRAWN BY:

CHECKED BY: PROJECT NUMBER:

218007.005 SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:

*DBR

Mc Allen, Texas 78501 956.683.1640 p 956.683.1903 f TBPE Firm Registration No. 2234

DBR Project Number 218007.005

HA MG JB/JR -- -

M4.01

240/3/60

18

30

TRANE

4TTA4048

221

1,2,3,4,6,7

208/3/60

12

TRANE

4TTA4036

183

1,2,3,4,7

240/3/60

18

TRANE

4TTA4048

221

1,2,3,4,6,7

208/1/60

13

TRANE

4TTR4024

190

1,2,3,4,7

ARK	RTU-1	RTU-2	RTU-3	RTU-4
ERVES	CAFETERIA	CAFETERIA	ADMINISTRATION	LIBRARY
UNIT TYPE	SZVAV SIDE DISCHARGE	SZVAV SIDE DISCHARGE	SZVAV DOWN DISCHARGE	SZVAV DOWN DISCHARGE
NOMINAL TONS	12.5	12.5	8.5	10
DESIGN SUPPLY AIR (CFM)	4,000	4,000	2,950	3,200
DESIGN OUTDOOR AIR (CFM)	1,375	1,375	500	600
EER (AT AHRI CONDITIONS)	12	12	12.5	12
IEER (AT AHRI CONDITIONS)	15.0	15.0	14.7	15.2
EXT. S.P. (IN. W.G.)	1.00	1.00	1.00	1.00
FAN MOTOR HORSEPOWER	3	3	1	1.5
FAN DRIVE	DIRECT	DIRECT	DIRECT	DIRECT
COOLING DATA				
AMBIENT AIR (°F)	105	105	105	105
TOTAL COOLING CAPACITY (MBH)	140.0	140.0	89.3	101.9
TOTAL SENSIBLE CAPACITY (MBH)	108.8	108.8	71.3	84.0
EAT DB (°F)	82.6	82.6	78.7	79.1
EAT WB (°F)	67.8	67.8	65.1	65.3
LAT DB (°F)	57.4	57.4	56.3	54.8
LAT WB (°F)	56.5	56.5	54.9	54.3
HEATING DATA				
HEATING TYPE	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
HEATING CFM	4,000	4,000	2,720	3,200
HEATING CAPACITY (kW)	41	41	27.00	27
EAT DB (°F)	58.0	58.0	60.0	60.0
LAT DB (°F)	89.98	89.98	91.26	86.65
ELECTRICAL DATA				
VOLTS/PHASE/HERTZ	208/3/60	208/3/60	208/3/60	208/3/60
MCA	155	155	104	104
MOCP	175	175	110	110
MANUFACTURER	TRANE	TRANE	TRANE	TRANE
MODEL NO.	THH150	THH150	THC102	THC120

2,415

1,217

1,675

1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO COIL(S), FILTERS, HOUSING, NOR ACCESSORIES.

2,415

- 2. PROVIDE UNIT WITH OUTDOOR AIR INTAKE HOOD WITH MODULATING MOTORIZED DAMPER.
- 3. PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION.4. PROVIDE UNIT WITH MINIMUM MERV 13 FILTERS.
- 5. PROVIDE UNIT CONTROLLER BY MANUFACTURER. PROVIDE CONTROLLER WITH BACNET INTERFACE CARD FOR INTEGRATION WITH EMCS.
- 6. PROVIDE UNIT WITH HOT GAS REHEAT FOR HUMIDITY CONTROL.7. PROVIDE UNIT WITH CONDENSER HAIL GUARD AND 14" PREFABRICATED ROOF CURB.
- 8. PROVIDE UNIT WITH INTEGRAL DISCONNECT SWITCH AND POWERED CONVENIENCE OUTLET.
- 9. PROVIDE UNIT WITH ROOF CURB ADAPTOR.

OPERATING WEIGHT (LBS)

NOTES

- 10. PROVIDE UNIT WITH COMPARATIVE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF.
- 11. PROVIDE WITH SCR CONTROLLED ELECTRIC REHEAT.12. PROVIDE WITH INTEGRAL VFD FOR SUPPLY FAN MOTOR.

NOTES:

- 1. PROVIDE CONDENSER COIL HAIL GUARDS. PROVIDE E-COATING ON CONDENSER COIL.
- 2. PROVIDE LOW AMBIENT CONTROL DOWN TO 55 DEGREE AMBIENT.
- 3. PROVIDE REFRIGERANT PIPING IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 4. PROVIDE SINGLE POINT ELECTRICAL CONNECTION WITH NON-FUSED DISCONNECT.
- 5. PROVIDE WITH UNIT CONTROLLER WITH BACNET INTERFACE.
- 6. PROVIDE WITH WITH FACTORY MOUNTED AND TESTED APR VALVE FOR CAPACITY CONTROL.
- 7.PROVIDE 5 YEARS PARTS AND LABOR WARRANTY.

VOLTS/PHASE/HERTZ

MANUFACTURER

NOMINAL TONS

WEIGHT (LBS)

- 8. PROVIDE WITH FULLY VARIABLE SPEED DIRECT DRIVE ECM SUPPLY FAN MOTOR.
- 9. PROVIDE WITH MERV-13 FILTER. PROVIDE WITH FILTER BANK UNDERNEATH UNIT, UNIT EXTERNAL STATIC DOES NOT INCLUDE FILTER LOSSES.

240/3/60

18

TRANE

4TTA4048

221

1,2,3,4,6,7

208/3/60

TRANE

4TTA4042

3.5

1,2,3,4,7

10. PROVIDE WITH 2" MERV 13 FILTER. EXTERNAL STATIC DOES NOT INCLUDE FILTER LOSSES.

LOUVER SCHEDUL	E		
MARK	L-1 THROUGH L-11	L-12	
SERVICE	OUTSIDE AIR	OUTSIDE AIR	
SIZE (WIDTH X HEIGHT)	22" X 12"	12" X 12"	
CFM	350	50	
MAX FREE AREA VELOCITY (FPM)	567	280	
MIN. FREE AREA (S.F.)	0.62	0.27	
MAX P.D. (IN. W.G.)	0.1	0.1	
MANUFACTURER	GREENHECK	GREENHECK	
MODEL NO.	EVH-501D	EVH-501D	
NOTES	1, 2, 3, 4	1, 2, 3, 4	

NOTES

- 1. PROVIDE WITH INSECT/BIRD SCREEN.
- PERFORMANCE OF LOUVER SHALL BE VERIFIED BY AMCA PUBLICATION 550 AND 540.
 PAINT COLOR BY OWNER.
- 4. PROVIDE FLASHING COMPATIBLE WITH WITH EXISTING FLASHING.

MARK	GH-1	GH-2	GH-3	GH-4	GH-5	GH-6	GH-7	
SERVES			FCU-22 THROUGH FCU-25	FCU-26 THROUGH FCU-29	FCU-30 THROUGH FCU-33		AH-1	
CFM	1,400	2,100	1,400	1,400	1,400	990	650	
MAX P.D. (IN. W.G.)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
INTAKE/RELIEF	INTAKE	INTAKE	INTAKE	INTAKE	INTAKE	INTAKE	INTAKE	
THROAT AREA (FT2)	2.25	3.24	2.25	2.25	2.25	1.45	1.45	
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	
MODEL NO.	GRSI-20	GRSI-24	GRSI-20	GRSI-20	GRSI-20	GRSI-16	GRSI-16	
NOTES	1, 2	1, 2	1, 2	1, 2	1, 2	1, 2	1, 2	

1. PROVIDE WITH PREFABRICATED ROOF CURB AND INSECT SCREEN.

2. PROVIDE FLASHING COMPATIBLE WITH EXISTING FLASHING.

208/3/60

TRANE

TTA150

12.5

504

1,2,3,4,7

1. PROVIDE WITH PREFABRICATED ROOF CURB AND INSECT SCREEN.

2. PROVIDE FLASHING COMPATIBLE WITH EXISTING FLASHING.

FAN SCHEDULE		
MARK	EF-1	
SERVES	CLINIC/NURSE	
CFM	600	
E.S.P. (IN W.G.)	0.5	
TYPE	CEILING	
DIRECT/BELT DRIVE	DIRECT	
FAN RPM	1,477	
MOTOR HORSEPOWER	136 W	
VOLTS/PHASE/HERTZ	120/1/60	
WEIGHT (LBS)	50	
MANUFACTURER	COOK	
MODEL NO.	GCVF-700	
SONES	5.0	
NOTES	1, 2	

	NOTES:
7	1. PROVIDE WITH FAN SPEED CONTROL, FACTORY MOUNTED DISCONNECT, AND BACKDRAFT
	DAMPER.
	2. PROVIDE START/STOP AND STATUS POINTS. REFER TO CONTROLS DIAGRAM FOR

VENTILATION EXHAUST FAN.

GRAVITY HOOI	D SCHEDULE							<u> </u>	
 MARK	GH-1	GH-2	GH-3	GH-4	GH-5	GH-6	GH-7		GH-8
SERVES	FCU-12 THROUGH FCU-15	FCU-16 THROUGH FCU-21	FCU-22 THROUGH FCU-25	FCU-26 THROUGH FCU-29	FCU-30 THROUGH FCU-33	FCU-34 THROUGH FCU-37	AHU-1		EF-1
CFM	1,400	2,100	1,400	1,400	1,400	990	650		600
MAX P.D. (IN. W.G.)	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.1
INTAKE/RELIEF	INTAKE	INTAKE	INTAKE	INTAKE	INTAKE	INTAKE	INTAKE		EXHAUST
₹THROAT AREA (FT2)	2.25	3.24	2.25	2.25	2.25	1.45	1.45		0.57
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK		GREENHECK
MODEL NO.	GRSI-20	GRSI-24	GRSI-20	GRSI-20	GRSI-20	GRSI-16	GRSI-16		GRSR-12
NOTES	1, 2	1, 2	1, 2	1, 2	1, 2	1, 2	1, 2		1, 2
NOTES:									

200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 218007.005

HA MG JB/JR -- --

210.546.0200 v 210.546.0201 f

REVISION:
No. / DATE / DESCRIPTION

1 05/26/2022 ADDENDUM 1

SEAL:



EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT

YETANO CAVAZOS ES - HVAC IMPROVEMENTS

1501 EREDDY CONZAL EZ DR. MCALLEN TX. 28504

DATE: 05/05/2022 DRAWN BY: DBR

CHECKED BY:

DBR

PROJECT NUMBER:

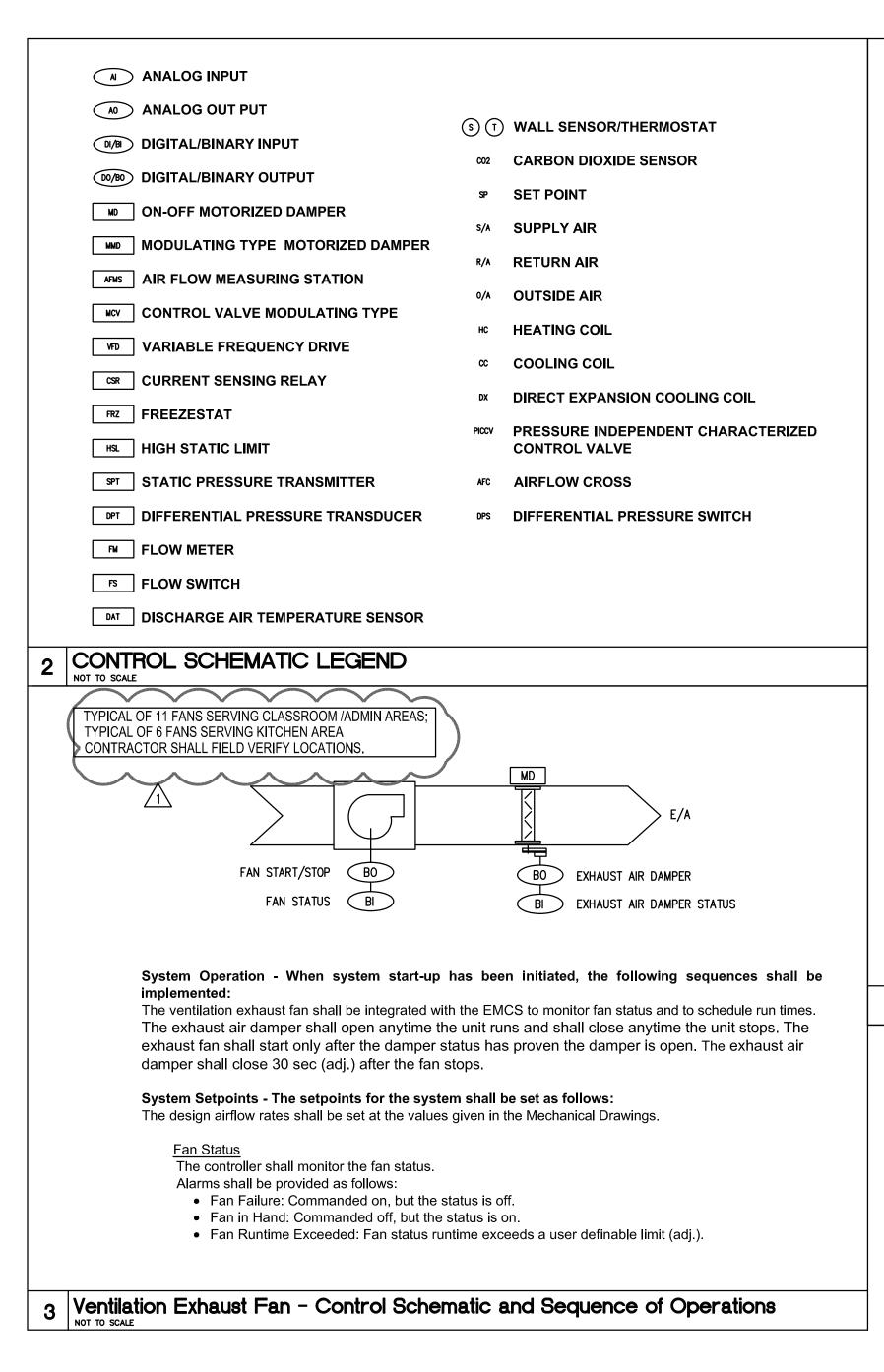
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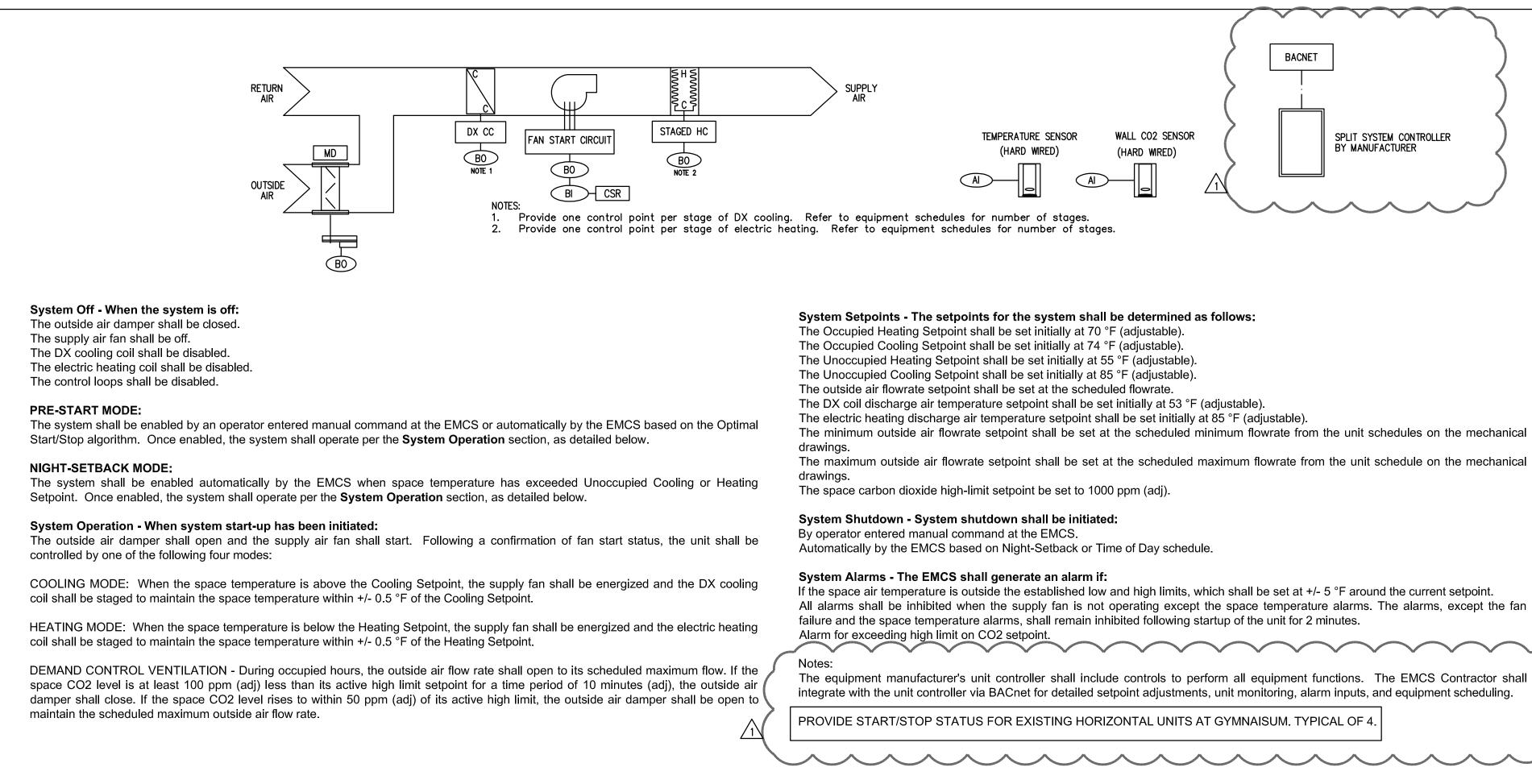
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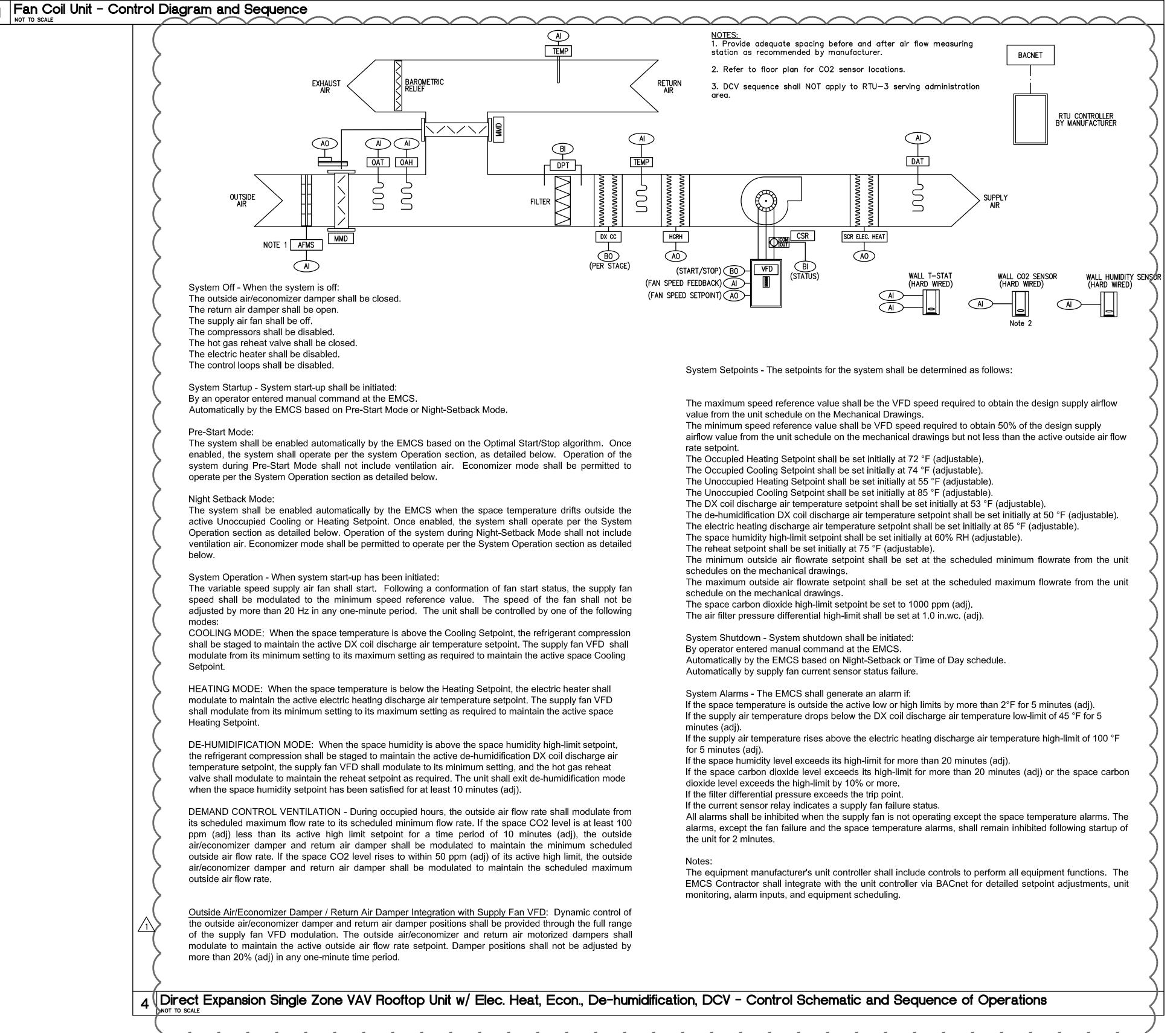
MECHANICAL SCHEDULES

SHEET NUMBER:

M5.01









REVISION:
No. / DATE / DESCRIPTION

SEAL:



EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT

CAYETANO CAVAZOS ES – HVAC IMPROVEMENTS

1501 FREDDY GONZALEZ DR, MCALLEN, TX 78504

DATE:05/05/2022 **DRAWN BY:**DBR

CHECKED BY:

DBR

PROJECT NUMBER:

PROJECT NUMBER: 218007.005

SHEET TITLE:

MECHANICAL

CONTROLS

SHEET NUMBER:

*DBR

Mc Allen, Texas 78501 956.683.1640 p 956.683.1903 f TBPE Firm Registration No. 2234

DBR Project Number 218007.005

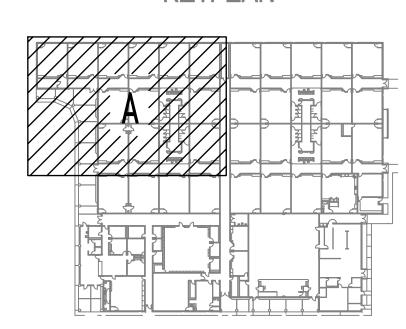
HA MG JB/JR -- --

M6.01

LEVEL 1 ELECTRICAL POWER PLAN - DEMOLITION - AREA A

1/8" = 1'-0"







ELECTRICAL DEMO GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. FIELD VERIFY PANELS AND CIRCUIT NUMBERS FOR ALL EXISTING ELECTRICAL TO BE REMOVED.





No. / DATE / DESCRIPTION

1 05/26/2022 ADDENDUM 1

SEAL:



DATE: 05/05/2022

CHECKED BY:

PROJECT NUMBER: 218007.005 SHEET TITLE:

> LEVEL 1 ELECTRICAL POWER PLAN -**DEMOLITION** -AREA A

SHEET NUMBER:

EPD2.11A

LEVEL 1 ELECTRICAL POWER PLAN - DEMOLITION - AREA B

1/8" = 1'-0"

ELECTRICAL DEMO GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. FIELD VERIFY PANELS AND CIRCUIT NUMBERS FOR ALL EXISTING ELECTRICAL TO BE REMOVED.

ELECTRICAL DEMO KEYED NOTES: (#)

1. CONTRACTOR SHALL DISCONNECT EXISTING CIRCUIT FROM EXISTING EQUIPMENT TO BE REMOVED. EXISTING CIPCUIT TO REMAIN FOR NEW EQUIPMENT. DISCONNECT AND DEMOLISH EXISTING DISCONNECT SWITCH AND HOME—RUN CONDUCTORS BACK TO PANEL. EXISTING CONDUIT PATHWAY MAY REMAIN FOR REUSE WHERE FEASIBLE.

REVISION:

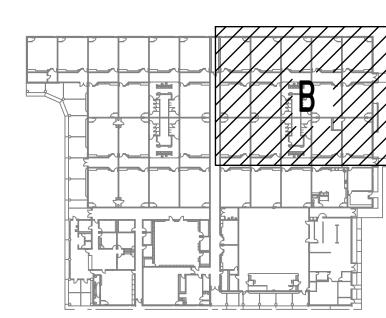
No. / DATE / DESCRIPTION 1 05/26/2022 ADDENDUM 1

SEAL:



DISTRICT OVEME!

KEYPLAN









DATE: 05/05/2022 DRAWN BY: CHECKED BY:

PROJECT NUMBER: 218007.005

SHEET TITLE: LEVEL 1 ELECTRICAL POWER PLAN -

DEMOLITION -

AREA B SHEET NUMBER:

EPD2.12B

LEVEL 1 ELECTRICAL POWER DEMO $\frac{1}{\text{PD2.13C}} \frac{\text{PLAN - AREA C}}{1/8" = 1'-0"}$

ELECTRICAL DEMO GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. FIELD VERIFY PANELS AND CIRCUIT NUMBERS FOR ALL EXISTING ELECTRICAL TO BE REMOVED.

ELECTRICAL DEMO KEYED NOTES:

DISCONNECT AND DEMOLISH EXISTING DISCONNECT SWITCH AND HOME-RUN CONDUCTORS BACK TO PANEL. EXISTING CONDUIT PATHWAY MAY REMAIN FOR REUSE WHERE FEASIBLE. DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH, CONDUIT, AND WIRE BACK TO EXISTING

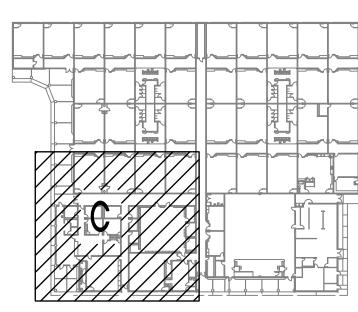
No. / DATE / DESCRIPTION

1 0/BD/26/2022 ADDENDUM 1



OL DISTRICT
PROVEMENT
78504

KEYPLAN









EPD2.13C

LEVEL 1

ELECTRICAL

POWER PLAN -

DEMOLITION -

AREA C

DATE: 05/05/2022

DRAWN BY:

CHECKED BY:

218007.005

SHEET TITLE:

SHEET NUMBER:

PROJECT NUMBER:

DBR

LEVEL 1 ELECTRICAL POWER PLAN - DEMOLITION - AREA D

1/8" = 1'-0"

ELECTRICAL DEMO GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. FIELD VERIFY PANELS AND CIRCUIT NUMBERS FOR ALL EXISTING ELECTRICAL TO BE REMOVED.

ELECTRICAL DEMO KEYED NOTES: (#)

CONTRACTOR SHALL DISCONNECT EXISTING CIRCUIT FROM EXISTING EQUIPMENT TO BE REMOVED.

EXISTING CIRCUIT TO REMAIN FOR NEW EQUIPMENT: DISCONNECT AND DEMOLISH EXISTING DISCONNECT SWITCH AND HOME-RUN CONDUCTORS BACK TO PANEL. EXISTING CONDUIT PATHWAY MAY REMAIN FOR REUSE WHERE FEASIBLE.

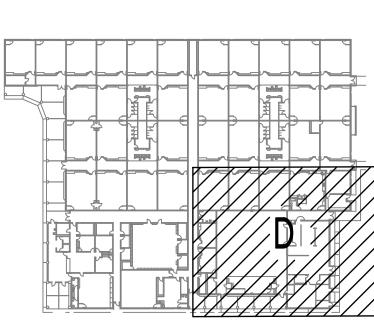
DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH, CONDUIT, AND WIRE BACK TO EXISTING

No. / DATE / DESCRIPTION 1 05/26/2022 ADDENDUM 1

SEAL:



KEYPLAN









LEVEL 1 ELECTRICAL POWER PLAN -**DEMOLITION -**AREA D SHEET NUMBER:

DATE: 05/05/2022

CHECKED BY:DBR

218007.005

SHEET TITLE:

PROJECT NUMBER:

EPD2.14D

LEVEL 1 ELECTRICAL POWER PLAN - AREA A

1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

- A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. FIELD VERIFY PANELS AND CIRCUIT NUMBERS FOR ALL EXISTING ELECTRICAL TO BE REMOVED.
- B. CONTRACTOR SHALL UPDATE PANEL DIRECTORY WITH CIRCUIT NUMBERS FOR ALL NEW EQUIPMENT.
- C. REFER TO ELECTRICAL SCHEDULES SHEET FOR FEEDER SCHEDULE FOR ADDITIONAL INFORMATION
- D. NEW EQUIPMENT SWITCH DISCONNECTS TO BE PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INSTALL.

ELECTRICAL KEYED NOTES:

- 1. CONTRACTOR SHALL CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT. PROVIDE NEW FLEX CONDUIT WITH WIRE FROM NEW DISCONNECT SWITCH TO NEW EQUIPMENT.
- 2. INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#8, 1#10 G, IN 1"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CORRESTLY PER NEC REQUIREMENTS. PROVIDE NEW 154/3P DREAKER, IN EXISTING PANEL.
- PROVIDE WALL MOUNTED WP/GFCI RECEPTACLE. POWER WITH (2)#12, (1)#12G, IN A 3/4"C. PROVIDE POWER FROM EXISTING PANEL A4, LOCATED IN JAN. 151 SPACE. INSTALL NEW 20A/1P BREAKER IN SPACE 24 OF PANEL.
- 4. PROVIDE ROOF MOUNTED WP/GFCI RECEPTACLE, REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION. POWER WITH (2)#12, (1)#12G, IN A 3/4"C. PROVIDE POWER FROM EXISTING PANEL A4, LOCATED IN JAN. 151 SPACE. INSTALL NEW 20A/1P BREAKER IN SPACE 26 OF

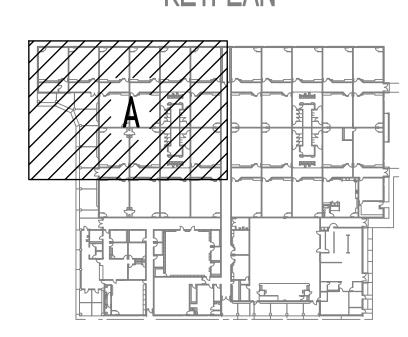
REVISION:

No. / DATE / DESCRIPTION 05/26/2022 ADDENDUM 1



DISTRICT OVEME!

KEYPLAN









SHEET NUMBER:

LEVEL 1

ELECTRICAL

POWER PLAN -

AREA A

05/05/2022

CHECKED BY:

218007.005

SHEET TITLE:

PROJECT NUMBER:

EP2.11A

LEVEL 1 ELECTRICAL POWER PLAN - AREA B

1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

- A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. FIELD VERIFY PANELS AND CIRCUIT NUMBERS FOR ALL EXISTING ELECTRICAL TO BE REMOVED.
- B. CONTRACTOR SHALL UPDATE PANEL DIRECTORY WITH CIRCUIT NUMBERS FOR ALL NEW EQUIPMENT.
- C. REFER TO ELECTRICAL SCHEDULES SHEET FOR FEEDER SCHEDULE FOR ADDITIONAL
- D. NEW EQUIPMENT SWITCH DISCONNECTS TO BE PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INSTALL.

ELECTRICAL KEYED NOTES:

- 1. CONTRACTOR SHALL CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT. PROVIDE NEW FLEX CONDUIT WITH WIRE FROM NEW DISCONNECT SWITCH TO NEW EQUIPMENT.
- 2. INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#8 , 1#10 G, IN 1"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CORRECTLY FER NEC BEQUIREMENTS. PROVIDE NEW 45A/3P BREAKER, IN EXISTING PANEL

PROVIDE WALL MOUNTED WP/GFCI RECEPTACLE. POWER WITH (2)#12, (1)#12G, IN A 3/4"C. PROVIDE POWER FROM EXISTING PANEL A4, LOCATED IN JAN. 141 SPACE. INSTALL NEW 20A/1P BREAKER IN SPACE 42 OF PANEL.

REVISION:

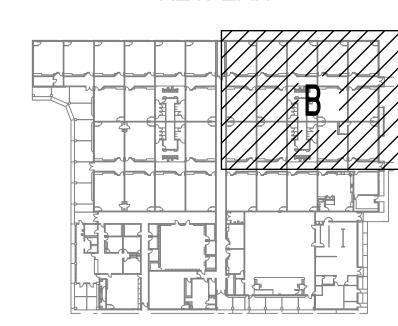
No. / DATE / DESCRIPTION 1 05/26/2022 ADDENDUM 1

SEAL:



DISTRICT OVEME!

KEYPLAN









ELECTRICAL POWER PLAN -AREA B

DATE: 05/05/2022

DRAWN BY:

CHECKED BY:

SHEET TITLE:

PROJECT NUMBER:

SHEET NUMBER:

EP2.12B

LEVEL 1

LEVEL 1 ELECTRICAL POWER PLAN - AREA C

1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

- A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. FIELD VERIFY PANELS AND CIRCUIT NUMBERS FOR ALL EXISTING ELECTRICAL TO BE REMOVED.
- B. CONTRACTOR SHALL UPDATE PANEL DIRECTORY WITH CIRCUIT NUMBERS FOR ALL NEW EQUIPMENT.
- C. REFER TO ELECTRICAL SCHEDULES SHEET FOR FEEDER SCHEDULE FOR ADDITIONAL
- D. NEW EQUIPMENT SWITCH DISCONNECTS TO BE PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INSTALL.

ELECTRICAL KEYED NOTES: (#)

- CONTRACTOR SHALL CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT. PROVIDE NEW FLEX CONDUIT WITH WIRE FROM NEW DISCONNECT SWITCH TO NEW EQUIPMENT.
- 2. INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#8, 1#10 G, IN 1"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CORRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 45A/3D BREAKER, IN EXISTING PANEL.
- . INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#1, 1#6 G, IN 1-1/2"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED

CORRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 110A/3P BREAKER, IN EXISTING PANEL. .

- 4. INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#3, 1#8 G, IN 1-1/4"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CORRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 90A/3P BREAKER, IN EXISTING PANEL.
- 5. NEW BAS PANEL LOCATION. CONTRACTOR SHALL PROVIDE POWER WITH (2)#12. 1#12G, IN A 3/4"C FROM EXISTING PANEL K3 LOCATED IN MECH. 260 SPACE. INSTALL NEW 20A/1P BREAKER IN SPACE 41 OF PANEL. CONTRACTOR SHALL INSTALL BACKBOX AND PATHWAY FOR DATA CABLING. COORDINATE ONSITE PRIOR TO ROUGH IN.
- 6. INSTALL NEW DISCONNECT SWTCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWTCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#8, 1#8 G, IN 1°C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CORRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 35A/3P BREAKER, IN EXISTING PANEL.
- CONTRACTOR SHALL CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT. PROVIDE NEW FLEX CONDUIT AND WIRE FROM NEW DISCONNECT SWITCH TO NEW EQUIPMENT. REPLACE EXISTING BREAKER IN PANEL WITH NEW 25A/3P BREAKER.

8. INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX

CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH

3#10 , 1#10 G, IN 3/4"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED

CÖRRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 20A/3P BREAKER, IN EXISTING PANEL

9. INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE POWER FOR NEW EF-1 WITH (2)#12, (1)#12G, IN A 3/4"C. PROVIDE POWER FROM EXISTING PANEL K3,

LOCATED IN MECH. 260 SPACE. INSTALL NEW 20A/1P BREAKER IN SPACE 40 OF PANEL.

✓

EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT

SAYETANO CAVAZOS ES – HVAC IMPROVEMENTS

1501 FREDDY GONZALEZ DR, MCALLEN, TX 78504

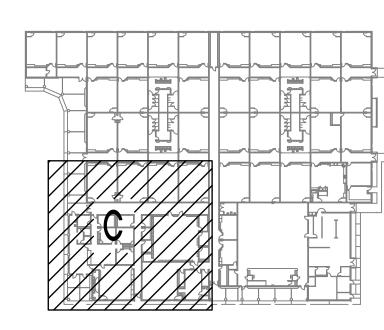
No. / DATE / DESCRIPTION

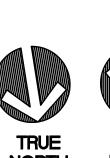
1 05/26/2022 ADDENDUM 1

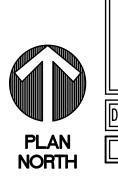
HUGO H. AVILA

SEAL:

KEYPLAN









Plotted: May 27, 2022, 8:14 AM by user: jrodriguez - Saved: 5/26/2022 by user: jrodriguez CCES\Project Files\Drawings\0EP-218007-0. C:\Users\jrodriguez\ACCDocs\DBR Inc\218007.005 - ECISD - District Wide HVAC Improvements - CCES\Project Files\Drawings\0EP-218007-0

SHETTILE:

LEVEL 1

ELECTRICAL

POWER PLAN
AREA C

DATE: 05/05/2022

DRAWN BY:

CHECKED BY:

PROJECT NUMBER:

SHEET NUMBER:

EP2.13C

LEVEL 1 ELECTRICAL POWER PLAN - AREA D

1/8" = 1'-0"

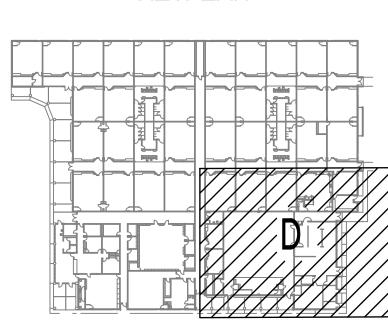
ELECTRICAL GENERAL NOTES:

- A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. FIELD VERIFY PANELS AND CIRCUIT NUMBERS FOR ALL EXISTING ELECTRICAL TO BE REMOVED.
- B. CONTRACTOR SHALL UPDATE PANEL DIRECTORY WITH CIRCUIT NUMBERS FOR ALL NEW EQUIPMENT.
- C. REFER TO ELECTRICAL SCHEDULES SHEET FOR FEEDER SCHEDULE FOR ADDITIONAL INFORMATION
- D. NEW EQUIPMENT SWITCH DISCONNECTS TO BE PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INSTALL.

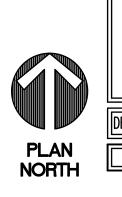
ELECTRICAL KEYED NOTES: (#)

- 1. CONTRACTOR SHALL CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT. PROVIDE NEW FLEX CONDUIT WITH WIRE FROM NEW DISCONNECT SWITCH TO NEW EQUIPMENT.
- 2. INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#8 1#10 G IN 1"C TO EXISTING FXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CORRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 45A/3P BNZAKER, IN EXISTING PANEL
- INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#2/0 , 1#6 G, IN 2"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CORRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 175A/3P BREAKER, IN EXISTING PANEL.
- 4. INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR, PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#1 , 1#6 G, IN 1-1/2"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CORRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 110A/3P BREAKER, IN EXISTING PANEL. .
- 5. INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#3, 1#8 G, IN 1-1/4"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CORRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 90A/3P BREAKER, IN EXISTING PANEL.
- 6. NSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#8 , 1#8 G, IN 1"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CORRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 40A/3P BREAKER, IN EXISTING PANEL.
- 7. INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#10 , 1#12 G, IN 3/4"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CÖRRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 20A/3P BREAKER, IN EXISTING PANEL.
- 8. INSTALL NEW DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE NEW FLEX CONDUIT AND WIRE FROM DISCONNECT SWITCH TO UNIT. PROVIDE NEW HOMERUN CIRCUIT WITH 3#10 , 1#12 G, IN 3/4"C TO EXISTING EXISTING PANEL. CONDUIT MAY BE REUSED WHERE SIZED CORRECTLY PER NEC REQUIREMENTS. PROVIDE NEW 20A/2P BREAKER, IN EXISTING PANEL.

KEYPLAN

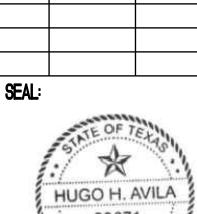








No. / DATE / DESCRIPTION 1 05/26/2022 ADDENDUM 1





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DATE: 05/05/2022 DRAWN BY: DBR

CHECKED BY:

PROJECT NUMBER: 218007.005

> LEVEL 1 ELECTRICAL POWER PLAN -AREA D

SHEET NUMBER:

EP2.14D

EDINBURG CONSOLIDATED INDEPENDENT SCHOOL DISTRICT

(ETANO CAVAZOS ES - HVAC IMPROVEMENTS
1501 FREDDY GONZALEZ DR, MCALLEN, TX 78504

DATE:05/05/2022 **DRAWN BY:**DBR

CHECKED BY:

DBR

PROJECT NUMBER:

PROJECT NUMBER: 218007.005

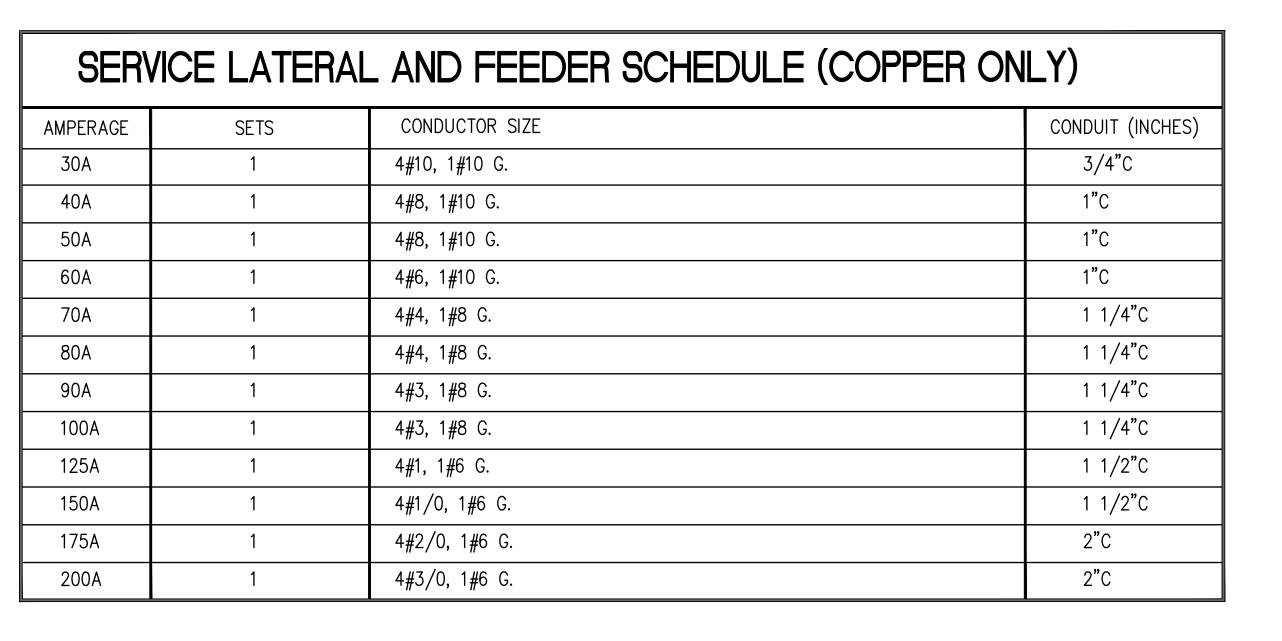
SHEET TITLE:

ELECTRICAL

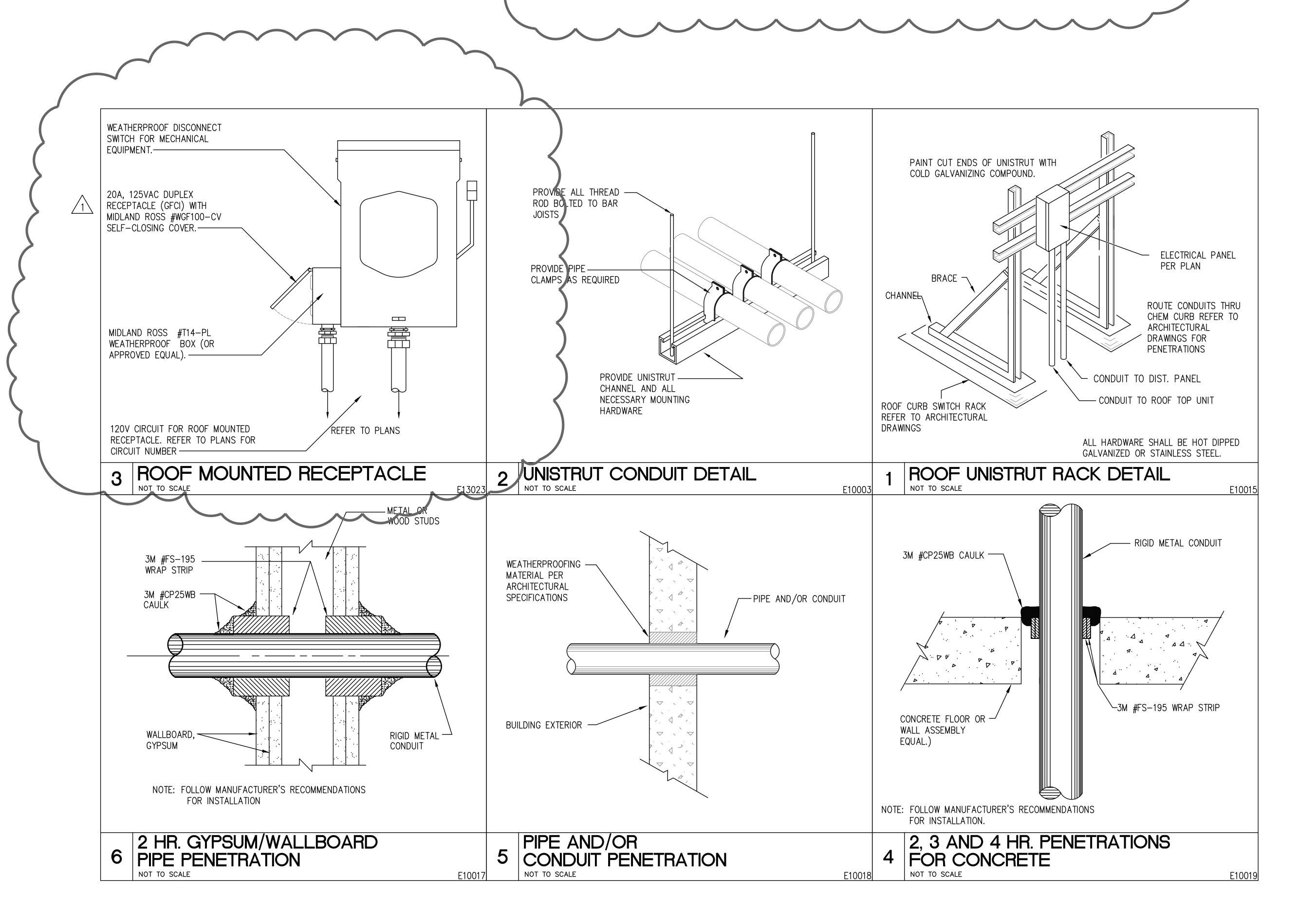
DETAILS

SHEET NUMBER:

E6.01



- . ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
- 3. CONTRACTOR SHALL INCREASE FEEDERS IN SIZE TO COMPENSATE FOR VOLTAGE DROP. FEEDERS SHALL BE SIZED TO MAINTAIN A 2% OR LESS VOLTAGE DROP ON FEEDERS AND A 3% OR LESS VOLTAGE DROP ON BRANCH CIRCUITS.



200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 218007.005

HA MG JB/JR —— ——

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PLM Summary Report

NVLAP Lab Code 102056-0
2051 Valley View Lane

TDSHS License No. 300084

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Terracon - San Antonio Lab Job No. : 22B-05553

Project : Cavazos Elementary HVAC Upgrades Report Date : 05/23/2022

Project # : 88227128 Sample Date : 05/17/2022

Identification: Asbestos, Bulk Sample Analysis

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600 / R-93 / 116 Page 1 of 2

On 5/18/2022, twelve (12) bulk material samples were submitted by Gabriel Gonzalez of Terracon - San Antonio for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
C-01	Roof	None Detected - Silver Paint None Detected - Roofing Material None Detected - Roofing Felt None Detected - Roofing Tar
C-02	Roof	None Detected - Silver Paint None Detected - Roofing Material None Detected - Roofing Felt None Detected - Roofing Tar
C-03	Roof	None Detected - Silver Paint None Detected - Roofing Material None Detected - Roofing Felt None Detected - Roofing Tar None Detected - Underlayment
C-04	Plaster	None Detected - Plaster
C-05	Plaster	None Detected - Plaster
C-06	Plaster	None Detected - Plaster
C-07	Moisture Barrier	None Detected - Moisture Barrier
C-08	Moisture Barrier	None Detected - Moisture Barrier
C-09	Moisture Barrier	None Detected - Moisture Barrier
C-10	Mastic	None Detected - Grey Mastic
C-11	Mastic	None Detected - Grey Mastic
C-12	Mastic	None Detected - Grey Mastic



PLM Summary Report

NVLAP Lab Code 102056-0 TDSHS License No. 300084

Lab Job No.: 22B-05553

Report Date: 05/23/2022

Sample Date : 05/17/2022

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client: Terracon - San Antonio

Project: Cavazos Elementary HVAC Upgrades

Project #: 88227128

Identification: Asbestos, Bulk Sample Analysis

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600 / R-93 / 116

Page 2 of 2

On 5/18/2022, twelve (12) bulk material samples were submitted by Gabriel Gonzalez of Terracon - San Antonio for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. The test report shall not be reproduced except in full without written approval of the laboratory. The results relate only to the items tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056-0.



Analyst(s): Tommie Smith Lab Manager: Heather Lopez

Lab Director: Bruce Crabb

Approved Signatory: Bene Sull

Thank you for choosing Moody Labs

Moody Labs

PLM Detail Report

Supplement to PLM Summary Report

NVLAP Lab Code 102056-0 TDSHS License No. 300084

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client :Terracon - San AntonioLab Job No. : 22B-05553Project :Cavazos Elementary HVAC UpgradesReport Date : 05/23/2022

Project #: 88227128

2051 Valley View Lane

Page 1 of 2

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
C-01	Silver Paint (Silver)	3%	Pigment / Binders	100%	05/23	TS
	Sand Layer (Brown)	10%	Aggregate	100%		
	Roofing Material (Black)	67%	Glass Wool Fibers	25%		
			Calcite	10%		
			Tar Binders	65%		
	Roofing Felt (Black)	10%	Glass Wool Fibers	45%		
			Tar Binders	55%		
	Roofing Tar (Black)	10%	Tar Binders	100%		
C-02	Silver Paint (Silver)	3%	Pigment / Binders	100%	05/23	TS
	Sand Layer (Brown)	10%	Aggregate	100%		
	Roofing Material (Black)	67%	Glass Wool Fibers	25%		
			Calcite	10%		
			Tar Binders	65%		
	Roofing Felt (Black)	10%	Glass Wool Fibers	45%		
			Tar Binders	55%		
	Roofing Tar (Black)	10%	Tar Binders	100%		
C-03	Silver Paint (Silver)	3%	Pigment / Binders	100%	05/23	TS
	Sand Layer (Brown)	10%	Aggregate	100%		
	Roofing Material (Black)	52%	Glass Wool Fibers	25%		
			Calcite	10%		
			Tar Binders	65%		
	Roofing Felt (Black)	10%	Glass Wool Fibers	45%		
			Tar Binders	55%		
	Roofing Tar (Black)	20%	Tar Binders	100%		
	Underlayment (Tan)	5%	Cellulose Fibers	80%		
			Perlite	20%		
C-04	Plaster (Tan)	90%	Aggregate	65%	05/23	TS
			Calcite / Binders	35%		
	Paint (Tan)	10%	Pigment / Binders	100%		

Moody Labs

PLM Detail Report

Supplement to PLM Summary Report

NVLAP Lab Code 102056-0 TDSHS License No. 300084

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client :Terracon - San AntonioLab Job No. : 22B-05553Project :Cavazos Elementary HVAC UpgradesReport Date : 05/23/2022

Project #: 88227128

2051 Valley View Lane

Page 2 of 2

C-05	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
	Plaster (Tan)	100%	Aggregate	65%	05/23	TS
			Calcite / Binders	35%		
C-06	Plaster (Tan)	90%	Aggregate	65%	05/23	TS
			Calcite / Binders	35%		
	Paint (Tan)	10%	Pigment / Binders	100%		
C-07	Concrete (Grey)	95%	Aggregate	65%	05/23	TS
			Cement Binders	35%		
	Moisture Barrier (Black)	5%	Tar Binders	100%		
C-08	Concrete (Grey)	95%	Aggregate	65%	05/23	TS
			Cement Binders	35%		
	Moisture Barrier (Black)	5%	Tar Binders	100%		
C-09	Concrete (Grey)	95%	Aggregate	65%	05/23	TS
			Cement Binders	35%		
	Moisture Barrier (Black)	5%	Tar Binders	100%		
C-10	Grey Mastic (Grey)	100%	Calcite	60%	05/23	TS
			Glue Binders	40%		
C-11	Grey Mastic (Grey)	100%	Calcite	60%	05/23	TS
			Glue Binders	40%		
C-12	Grey Mastic (Grey)	100%	Calcite	60%	05/23	TS
			Glue Binders	40%		