

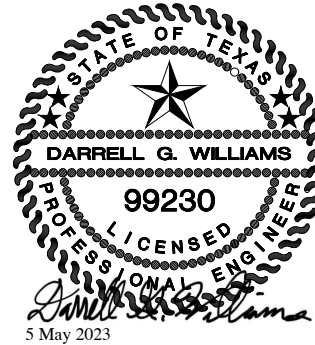
May 5, 2023



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TBPE Registered Firm# 2176



MECHANICAL ENGINEER OF RECORD



ELECTRICAL ENGINEER OF RECORD

**RWB CONSULTING ENGINEERS
MECHANICAL, PLUMBING & ELECTRICAL ADDENDUM 1 ITEMS FOR
T.E. BAXTER ES - HVAC REPLACEMENT
MIDLOTHIAN I.S.D.**

The following items modify the Specifications and Drawings and shall become part of the Contract Documents.

REVISIONS TO THE PROJECT MANUAL

The following specifications have been revised in this addendum. These revisions shall replace previously issued specifications as noted below.

1. SECTION 23 07 00 – Insulation

A. Refer to Article 2.2: Add following paragraphs after paragraph 'B'

" C. Flexible Fire Rated Duct Wrap/Boards for Grease Exhaust Ductwork, top of hoods exposed above ceilings, and elsewhere as noted on drawings:

1. Where specified elsewhere herein or where indicated on the Drawings, provide a flexible or board type fire rated duct enclosure system on metal ductwork and portions of hoods exposed above a ceiling, where required by the local Code authority, that allows for zero clearance to combustibles and which can be applied directly to the ductwork, and hood, to minimize space needed for the enclosing materials. The wrap or board materials shall be manufactured in various thicknesses or be able to be installed in multiple layers of a uniform thickness, to obtain an overall fire rating from one to four hours, and to meet the requirements of the local authority having jurisdiction based on the local codes used.
2. The duct wrap, or board, shall be a noncombustible fire-proofing material capable of withstanding temperatures in excess of 2000 Deg. F. and up to 1,800 Deg. F. on a continuous basis. The fire rating of this material shall be uniform over the entire surface, as installed, and shall be suitable for installation on ducts.
3. Refer to Specification Section 23 30 00 for grease and/or fume exhaust and ventilation air duct requirements. Coordinate the fire rated enclosure with that Section of Specifications (typically, minimum 1-hour rated enclosure).
4. Board materials shall be composed of a hydrous calcium silicate made primarily from high purity lime, silica and reinforcing fibers. Joints shall be sealed with a compatible high temperature caulking. Board density shall be a nominal 18 pounds per cubic foot or greater. The R-value shall be

approximately 1.7 per inch thickness of the board material. All board materials shall be as manufactured by "PABCO" or approved equals only.

5. Flexible duct wrap materials shall consist of a foil fiberglass reinforced scrim covering over a high temperature rated insulation system designed and rated to provide a fire rated barrier system around duct systems. Flexible duct enclosure systems shall meet all pertinent requirements of the most recent versions of ASTM E2336 and NFPA 96 (Section 4.3.1). This requires a one and one half inch (1-1/2") thick system with two layers of flexible fire wrap. Should the local Code in effect, and the authority having jurisdiction, allow a single layer system complying with the requirements of UL 1978, then this will be permitted. Verify all local code requirements prior to bidding this work. Duct wrap materials shall be as manufactured by:
 - a. 3M Corporation or equals by;
 - b. Thermal Ceramics (Firemaster), or
 - c. FyreWrap by "Unifrax".

- D. One (1) Hour Fire Rated Shaft Alternative for Dryer Exhaust Systems: Flexible Wrap Systems used on dryer exhaust systems shall be listed and labeled by an NRTL, Nationally Recognized Testing Laboratory. Labeling on scrim shall include product name and certification mark. Wrap system shall be fully encapsulated to resist moisture absorption. Wrap system shall be tested per ISO 6944, Type A duct, and achieve a one (1) hour rating for Stability, Integrity, and Insulation. Wrap shall also be tested per ASTM E 119, ASTM E 814/UL 1479, and ASTM E-84 or UL/ULC 723. A listed and labeled firestop system shall be available to seal the opening where the protected duct penetrates a fire rated floor or wall. The wrap system shall be installed with steel tie wire and/or banding per manufacturer's instructions. System is subject to approval of the local Authority Having Jurisdiction (AHJ) with the wrap material being Unifrax FyreWrap® DPS or approved equivalent."

REVISED & REISSUED DRAWINGS

The following list of drawings notes drawings revised and re-issued in this addendum. Previous versions of these drawings shall be removed and replaced with these revised drawings. For a list of drawings that are revised in this addendum, but not re-issued, refer to the REVISIONS TO DRAWINGS article and the narration provided for the revisions to drawings not re-issued in this addendum.

1. REVISED & REISSUED DRAWINGS

1. DMPE1.01 – DEMOLITION ROOF PLAN – MPE
2. MPE1.01 – ROOF PLAN – MPE
3. DM1.02 – DEMOLITION FLOOR PLAN – AREA 2 – HVAC
4. DM1.03 – DEMOLITION FLOOR PLAN – AREA 3 – HVAC
5. DM1.04 – DEMOLITION FLOOR PLAN – AREA 4 – HVAC
6. DM1.05 – DEMOLITION FLOOR PLAN – AREA 5 – HVAC
7. M1.01 – FLOOR PLAN – AREA 1 – HVAC
8. M1.02 – FLOOR PLAN – AREA 2 – HVAC
9. M1.03 – FLOOR PLAN – AREA 3 – HVAC
10. M1.04 – FLOOR PLAN – AREA 4 – HVAC
11. M1.05 – FLOOR PLAN – AREA 5 – HVAC
12. MP2.01 – DETAILS – MECHANICAL & PLUMBING
13. ME2.02 – DETAILS – MECHANICAL & ELECTRICAL
14. MP3.01 – SCHEDULES AND LEGEND – MECHANICAL & PLUMBING
15. E2.01 – PANEL SCHEDULES
16. E2.02 – PANEL SCHEDULES
17. E2.03 – PANEL SCHEDULES
18. E2.04 – PANEL SCHEDULES

REVISIONS TO DRAWINGS NOT RE-ISSUED

Please refer to the REVISED & REISSUED DRAWINGS article for a list of all drawings revised in this addendum. Previous versions of these drawings shall be removed and replaced with these revised drawings. The following list of drawings are revised in this addendum, but not re-issued. Refer to the narration provided for the revisions.

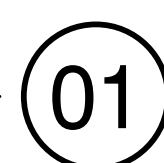
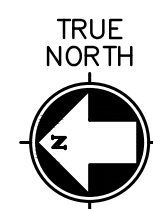
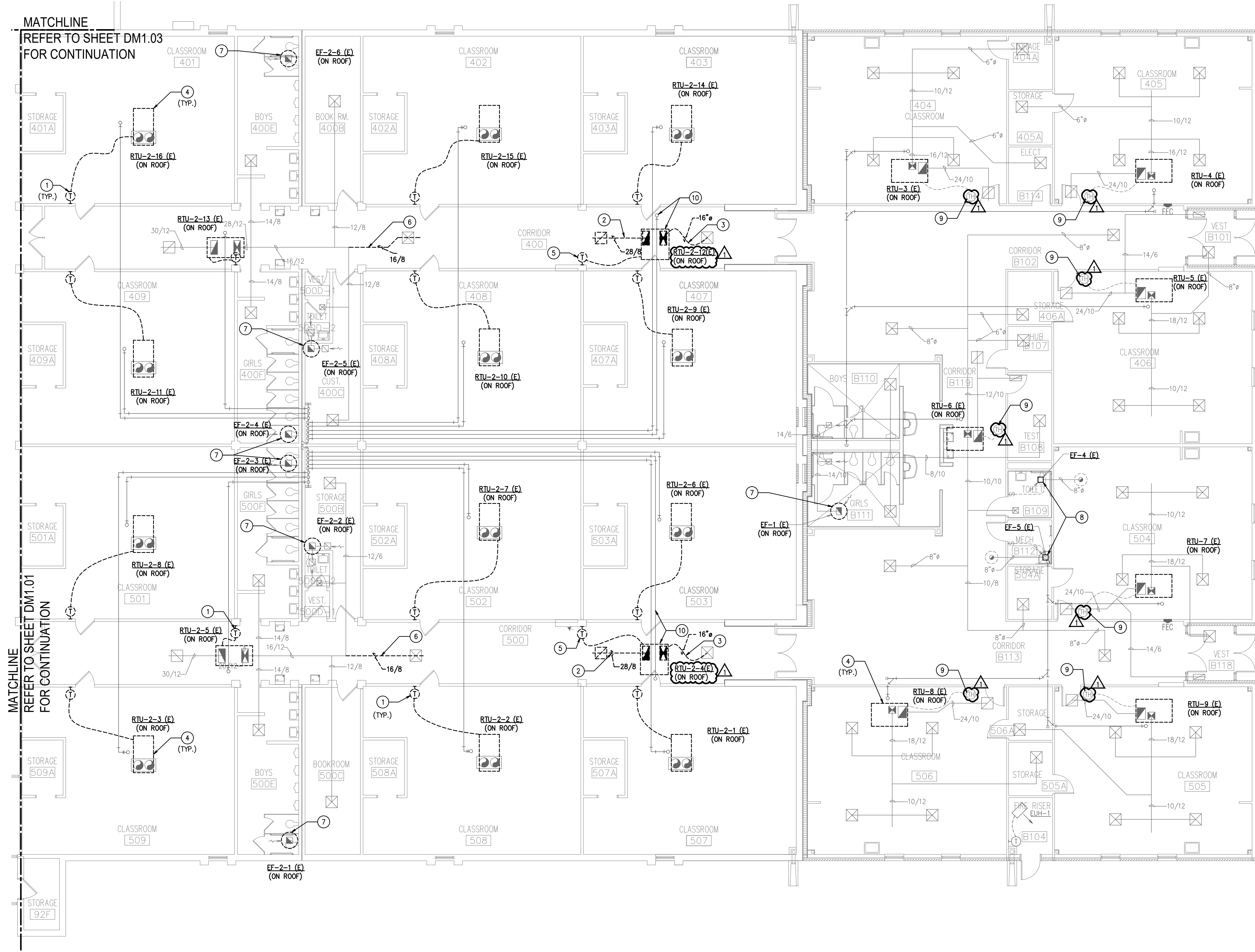
2. REVISED (NOT RE-ISSUED) DRAWINGS

1. Cover Sheet
 - A. Revised "M2.02 – DETAILS – MECHANICAL" sheet name to "ME2.02 – DETAILS – MECHANICAL & ELECTRICAL".

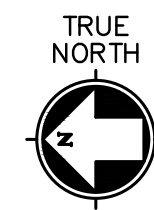
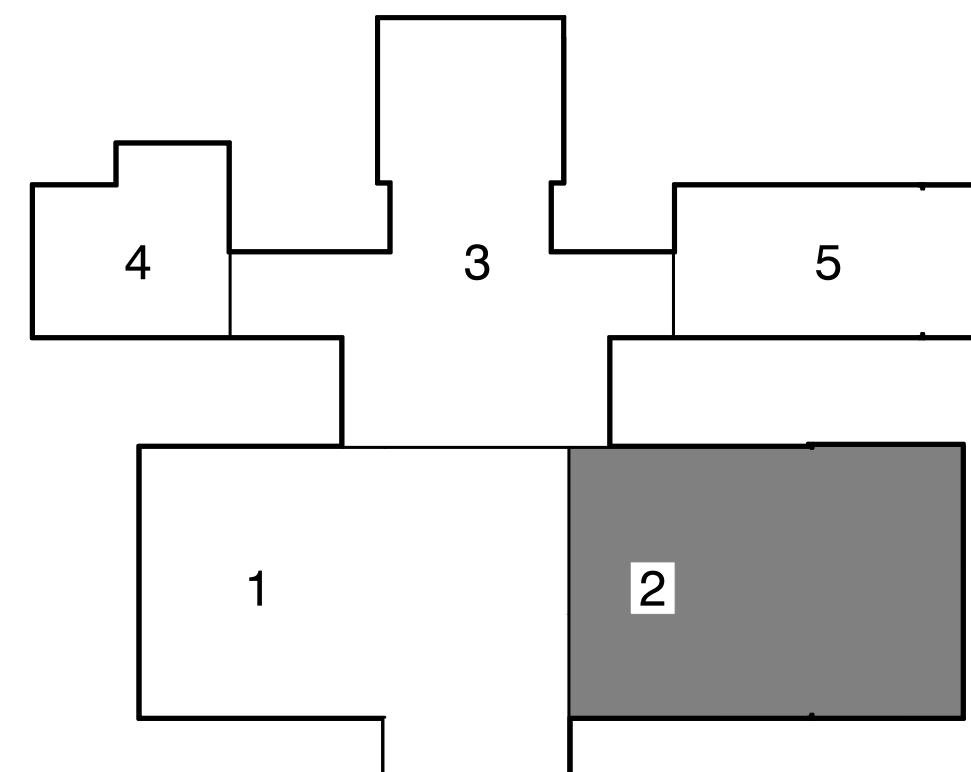
2. DM1.01 – DEMOLITION FLOOR PLAN – AREA 1 – HVAC
 - A. Refer to Keynote 3 under Notes by Symbol and revise to read as follows
 - “3. EXISTING SUPPLY AIR DUCTWORK FROM DIFFUSER BACK TO UNIT CONNECTION ON ROOF TO REMOVED. EXISTING SUPPLY DIFFUSER TO REMAIN AND BE RE-USED.”

END OF RWB CONSULTING ENGINEERS' ADDENDUM ITEMS

Drawing: 2/21/16 - MIDLOTHIAN I.S.D. BAXTER ES HVAC DRAWINGS/CAO/SHRETS/AM/CLLW/ P.H. BY BAXTER MAND; Plot Date: 5/7/2023 2:35 PM; Plot Scale: 1/8" = 1'-0"; Paper Size: 30" x 30" (A)



DEMOLITION FLOOR PLAN - AREA 2 - HVAC
SCALE: 1/8" = 1'-0"



KEYPLAN

GENERAL DEMOLITION NOTES:

- THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME INFORMED AS TO THE RELATION TO, AND EFFECT ON, THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
- EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
- COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL EFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION; AND, THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
- PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
- CONTRACTOR SHALL CONTACT CONTROLS SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED AND ITEMS TO BE REMOVED. THE CONTROLS SYSTEM INSTALLER SHALL COORDINATE WITH THE OWNER FOR ELEMENTS OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER SUCH AS EXISTING TEMPERATURE SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALLETIZED, AND PROVIDED TO OWNER FOR THEIR USE.
- DO NOT ABANDON ANY ITEMS IN PLACE. REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM CALLED OUT TO BE REMOVED. WHERE ITEMS ARE REMOVED PATCH/REPLACE ROOF, WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
- ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT AS NEEDED.
- ALL EXISTING LIGHTS ARE TO BE REUSED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.
- CLEAN EXISTING RE-USED SUPPLY, RETURN AND EXHAUST GRILLES FREE OF ALL DUST AND DEBRIS.
- WHERE NEW SENSORS MOUNTED LOWER THAN ORIGINAL OR IN DIFFERENT LOCATION, PROVIDE STAINLESS STEEL COVER PLATE OVER OLD LOCATION, AND PROVIDE NEW WIRING IN GYPSUM OR PLASTER WALLS TO NEW LOCATION OR PROVIDE PANDUIT FROM CEILING TO NEW LOCATION FOR SENSOR INSTALLED ON BRICK OR CMU WALLS. CONTROLS CONTRACTOR TO PROVIDE COVER PLATES AND PANDUIT.
- REMOVE AND RE-INSTALL EXISTING LAY-IN AND GYPSUM CEILING AS REQUIRED TO ACCOMMODATE NEW DUCTWORK. PROVIDE NEW TILE AND GRID AS NEEDED. PATCH AND REPAIR AREAS OF GYPSUM CEILING TO MATCH EXISTING WHERE REQUIRED. WHERE GYPSUM CEILING IS REMOVED, PAINT ENTIRE ROOM CEILING AFTER PATCHING.
- WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR TO RE-CONNECTING NEW UNITS TO EXISTING CONDENSATE DRAIN PIPING SYSTEM.
- THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
- CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
- PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGH OUT THE BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND BE 1/4" BOARD OR EQUAL TYPE FLOOR PROTECTION.

NOTES BY SYMBOL 'O':

- EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
- EXISTING RETURN AIR GRILLE AND ASSOCIATED DUCTWORK TO BE REMOVED BACK TO UNIT CONNECTION ON ROOF. PROVIDE NEW CEILING TILE IN PLACE OF REMOVED EXISTING RETURN GRILLE TO MATCH CEILING TILE MODEL "USG-FSRD-FC".
- EXISTING SUPPLY AIR DUCTWORK FROM DIFFUSER BACK TO UNIT CONNECTION ON ROOF TO BE REMOVED. EXISTING SUPPLY DIFFUSER TO REMAIN AND BE RE-USED.
- EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW UNIT.
- EXISTING TEMPERATURE SENSOR TO BE REMOVED, PATCH, REPAIR, AND PAINT WALL TO MATCH EXISTING. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
- EXISTING SUPPLY DUCTWORK FROM DIFFUSER BACK TO APPROXIMATE LOCATION SHOWN TO BE REMOVED. EXISTING DIFFUSER TO REMAIN AND BE RE-USED.
- EXISTING EXHAUST FAN ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- EXISTING EXHAUST FAN ABOVE CEILING TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- EXISTING COMBINATION TEMPERATURE/HUMIDITY SENSORS TO REMAIN AND BE RE-USED FOR NEW UNITS.
- EXISTING ROOF-TOP UNIT TO BE REMOVED AND CURB CAPPED. EXISTING CONDENSATE DRAIN PIPING TO BE CAPPED AND ABANDONED IN PLACE.

2023.04.28

ISSUES

01 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS

01 ADDENDUM 01 2023.04.05



T.E. BAXTER ES
HVAC REPLACEMENT
MIDLOTHIAN I.S.D.
1050 Park Pl Blvd, Midlothian, TX 76065

DEMOLITION FLOOR
PLAN - AREA 2 - HVAC

JOB NO.: 22146-00
DRAWN BY: ND
CHECKED BY: HW/ND

SHEET NO.

DM1.02

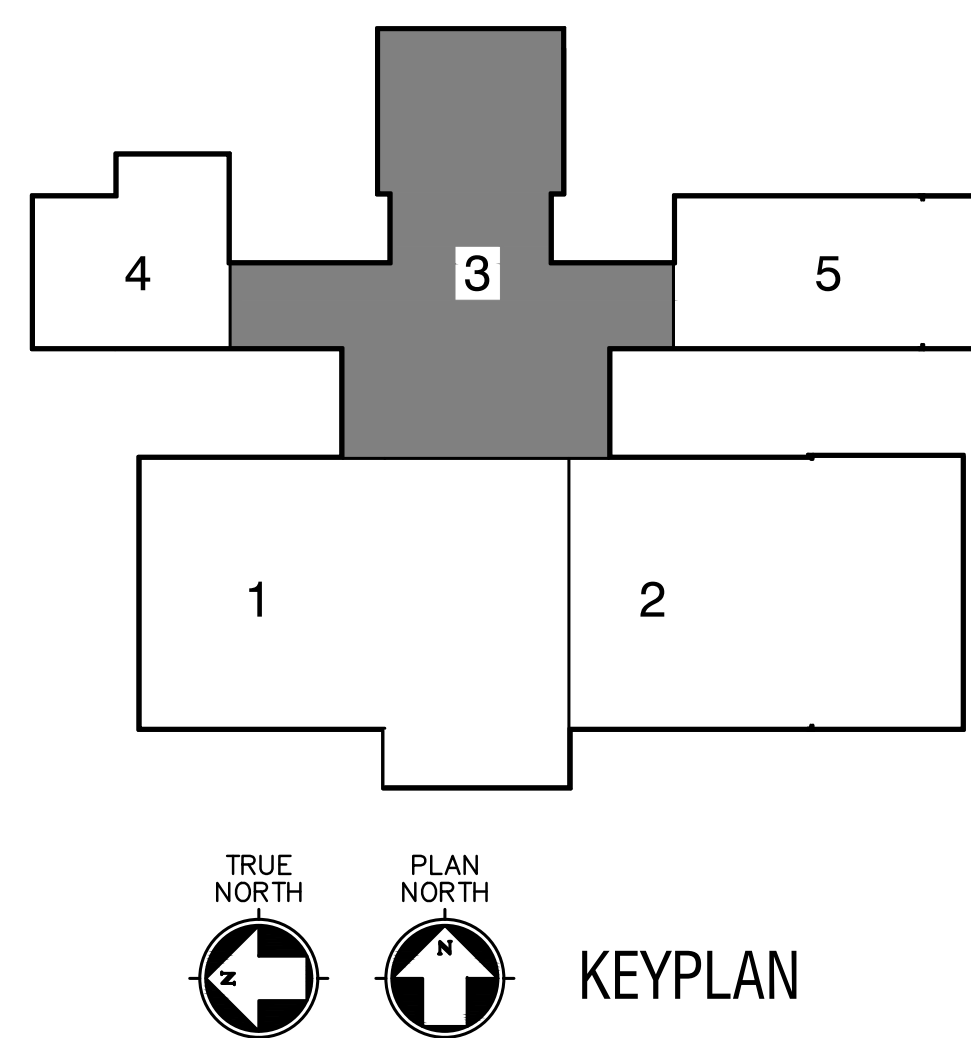
ISSUES		
01	ISSUE FOR CONSTRUCTION	2023.04.28

01	ADDENDUM 01	2023.05.05



DEMOLITION FLOOR
PLAN - AREA 3 - HVAC

DM1.03



1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK TO BE DONE. THE CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME FAMILIAR AS TO THE RELATIONSHIP OF THE EXISTING WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT ARE PART OF OTHER SYSTEMS WITHIN THE LIFE OF CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION, AND THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
5. CONTRACTOR SHALL CONTACT THE CONTROLS SYSTEMS INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED TO ADVISE THEM OF THE TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED, AND ITEMS TO BE REMOVED. THE CONTROLS SYSTEMS INSTALLER SHALL COORDINATE WITH THE OWNER FOR CLOSURE OF THE EXISTING CONTROL SYSTEMS THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER AS TO THE EXISTING TEMPERATURE SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING TRU'S SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALLETIZED, AND PROVIDED TO OWNER FOR THEIR USE.
6. DO NOT ABANDON ANY ITEMS IN PLACE, REMOVE ALL COMPONENTS ASSOCIATED WITH EACH SYSTEM AND CUT TO REMAIN. PATCH OR MATCH FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT AS NEEDED.
8. ALL EXISTING LIGHTS ARE TO BE REUSED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.
9. CLEAN EXISTING RE-USE SUPPLY, RETURN AND EXHAUST GRILLES FREE OF ALL DUST AND DEBRIS.
10. WHERE NEW SENSORS MOUNTED LOWER THAN ORIGINAL OR IN DIFFERENT LOCATION, PROVIDE STAINLESS STEEL COVER PLATE OVER OLD LOCATION, AND PROVIDE NEW WIRING IN GYPSUM OR PLASTER WALLS TO NEW LOCATION OR PROVIDE PANDUIT FROM CEILING TO NEW LOCATION FOR SENSORS INSTALLED ON BRICK OR CMU WALLS. PROVIDE CONTRACTOR TO PROVIDE COVER PLATES AND PANDUIT.
11. REMOVE AND RE-INSTALL EXISTING LAY-IN AND GYPSUM CEILING AS REQUIRED TO ACCOMMODATE NEW DUCTWORK. PROVIDE NEW TILE AND GRID AS NEEDED. PATCH AND REPAIR AREAS OF CEILING NOT BEING TIE TO NEW CEILING AS REQUIRED. WHERE GYPSUM CEILING IS REMOVED, PAINT ENTIRE ROOM CEILING AFTER PATCHING.
12. WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR TO RE-CONNECTING NEW UNITS TO EXISTING CONDENSATE DRAIN PIPING SYSTEM.
13. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
14. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
15. PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGHOUT THE BUILDING FROM WORK AREA EXTERIOR EXISTING PROTECTIVE COVERING BE FULL WIDTH OF CORRIDOR AND BE RAM BOARD OR EQUIV. TYPE FLOOR PROTECTION.

- ① EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
- ② EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW UNIT.
- ③ EXISTING EXHAUST FAN ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- ④ EXISTING SUPPLY AIR DUCTWORK TO BE REMOVED FROM DIFFUSER BACK TO APPROXIMATE LOCATION SHOWN AND CAPPED. EXISTING DIFFUSER TO REMAIN AND BE RE-USED.
- ⑤ EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED DUCTWORK TO BE REMOVED BACK TO APPROXIMATE LOCATION SHOWN AND CAPPED.
- ⑥ EXISTING TRANSFER AIR GRILLE AND ASSOCIATED DUCTWORK TO BE REMOVED. PROVIDE NEW CEILING LINE IN PLACE OF REMOVED EXISTING TRANSFER AIR GRILLE IN CORRIDOR SIMILAR TO "USE-1590-FC".

ISSUES

[illegible]

REVISIONS		
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[illegible]

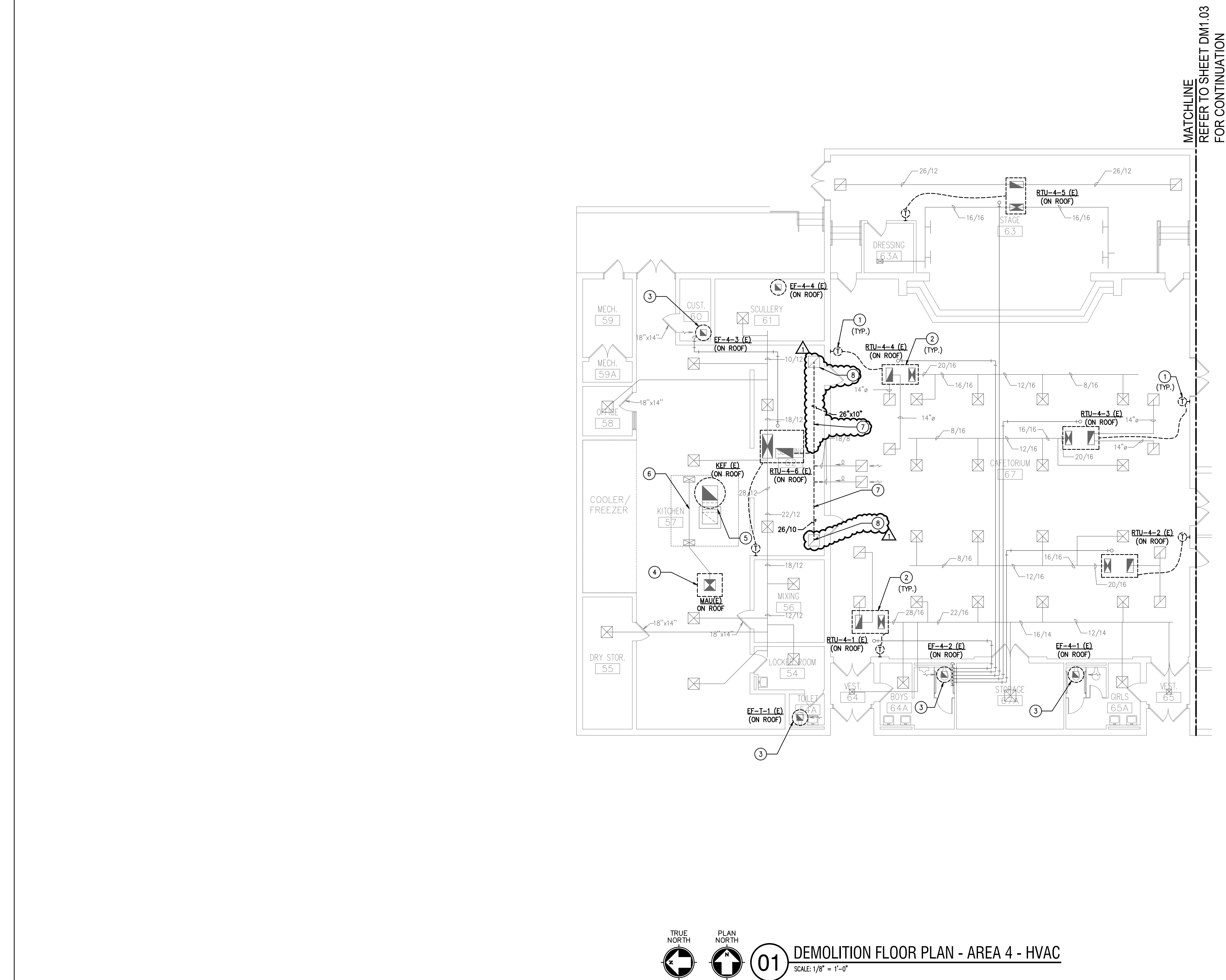
DEMOLITION FLOOR
PLAN - AREA 4 - HVAC

JOB NO.: 22146-00

DRAWN BY: ND
CHECKED BY: HV/NH

SHEET NO.

DM1.04



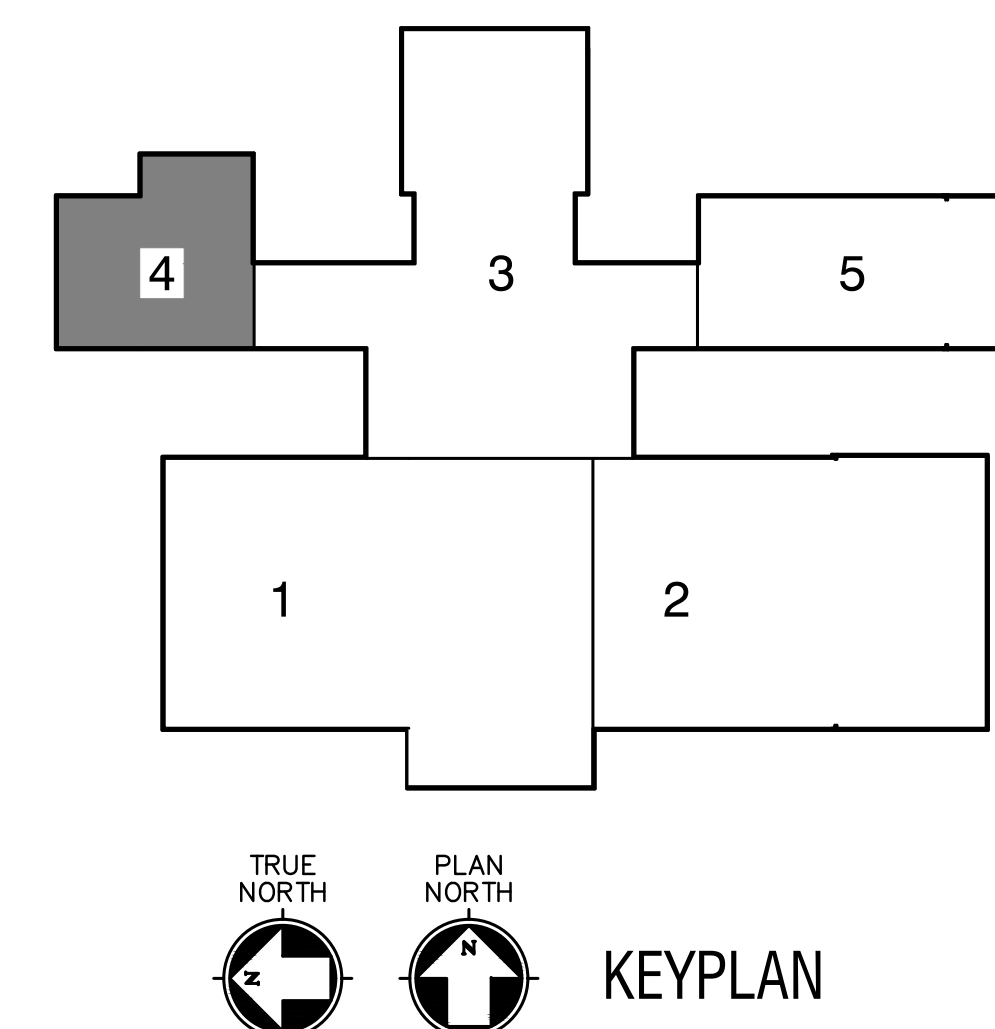
MATCHLINE
REFER TO SHEET DM1.03
FOR CONTINUATION

GENERAL DEMOLITION NOTES:

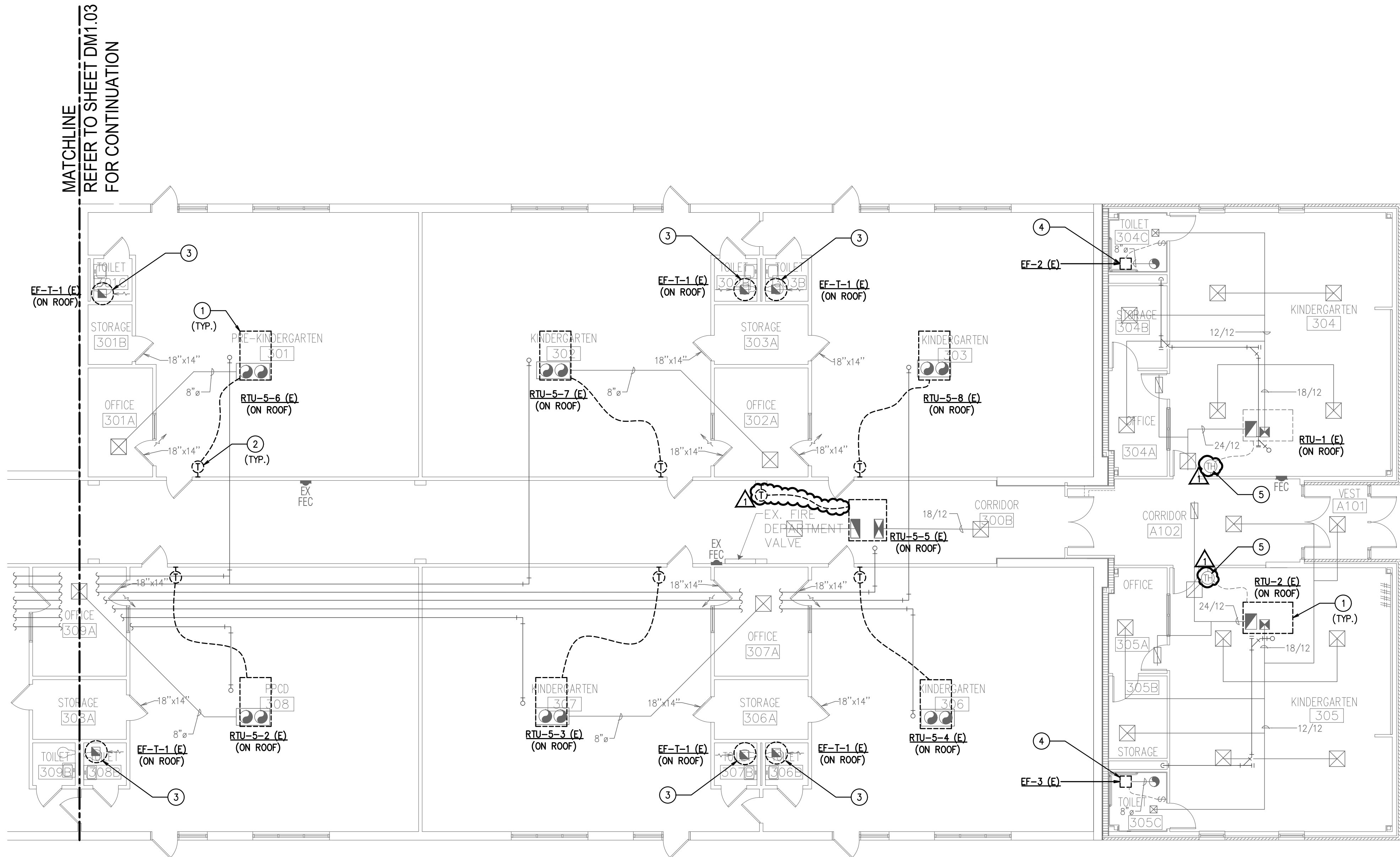
1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING THE SITE PLOTT TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK TO BE DONE. THE CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME FAMILIAR TO THE BUILDING. THE CONTRACTOR SHALL BE REQUIRED BEFORE SUBMITTING A BID, SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
2. EXISTING MEP ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL, AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT ARE LOCATED WITHIN THE LIFT UP CORE. NO NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING - THE BUILDING WILL BE OCCUPIED DURING THE EXISTING AND RE-USE PERIOD. RETURNS AND RE-USE WILL BE ON ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
4. PRIOR TO THE REMOVAL OF ANY MEP ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT AREA LIMITS).
5. CONTRACTOR SHALL CONTACT CONTROL'S SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN. ITEMS TO BE PROTECTED AND ITEMS TO BE REMOVED, THE CONTROLS SYSTEM INSTALLER SHALL COORDINATE WITH THE OWNER FOR ELEMENTS OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER. CONTRACTOR SHALL REMOVE ALL SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALLETIZED, AND PROVIDED TO OWNER FOR THEIR USE.
6. DO NOT ABANDON ANY ITEMS IN PLACE, REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM AND PUT IT TO REMOVED. REMOVE ALL ITEMS FROM CEILING SPACE, ROOF WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING DEMOLITION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT AS NEEDED.
8. ALL EXISTING LIGHTS ARE TO BE REUSED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE, CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.
9. CLEAN EXISTING RE-USE SUPPLY, RETURN AND EXHAUST GRILLES FREE OF ALL DUST AND DEBRIS.
10. WHERE NEW SENSORS MOUNTED LOWER THAN ORIGINAL OR IN DIFFERENT LOCATION, PROVIDE STAINLESS STEEL COVER PLATE OVER OLD LOCATION, AND PROVIDE NEW WIRING IN GYPSUM OR PLASTER WALLS TO NEW LOCATION OR PROVIDE PANDUIT FROM CEILING TO NEW LOCATION FOR SENSOR WALL MOUNTED BRICKS OR CMU WALLS. CONTRACTOR TO PROVIDE COVER PLATE AND PANDUIT.
11. REMOVE AND RE-INSTALL EXISTING LAY-IN AND GYPSUM CEILING AS REQUIRED TO ACCOMMODATE NEW OUTCROWT. PROVIDE NEW TILE AND GRID AS NEEDED. PATCH AND REPAIR AREAS OF CEILING BELONGING TO OTHER CONTRACTORS AS REQUIRED. WHERE GYPSUM CEILING IS REMOVED, PANT ENTIRE ROOM CEILING AFTER PATCHING.
12. WATER TEST AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR TO RE-CONNECTING NEW UNITS TO EXISTING CONDENSATE DRAIN PIPING SYSTEM.
13. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
14. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
15. PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGHOUT THE BUILDING. FLOOR WORK AREA TO EXTEND TO THE EXTERIOR. PROTECT SHALL BE FULL WIDTH OF CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

NOTES BY SYMBOL '○':

1. EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, AND PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
2. EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW UNIT.
3. EXISTING EXHAUST FAN ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
4. EXISTING MAKE-UP AIR FAN ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
5. REMOVE EXISTING EXTERNAL INSULATION ON EXISTING EXHAUST DUCTWORK FROM HOOD CONNECTION BACK TO FAN CONNECTION ON ROOF.
6. REMOVE EXISTING EXTERNAL INSULATION ON EXISTING MAKE-UP AIR DUCTWORK FROM HOOD CONNECTION BACK TO FAN CONNECTION ON ROOF.
7. EXISTING RETURN AIR DUCTWORK TO BE REMOVED FROM GRILLE BACK TO RTU CONNECTION ON ROOF.
8. EXISTING RETURN AIR GRILLE TO REMAIN AND BE RE-USED.

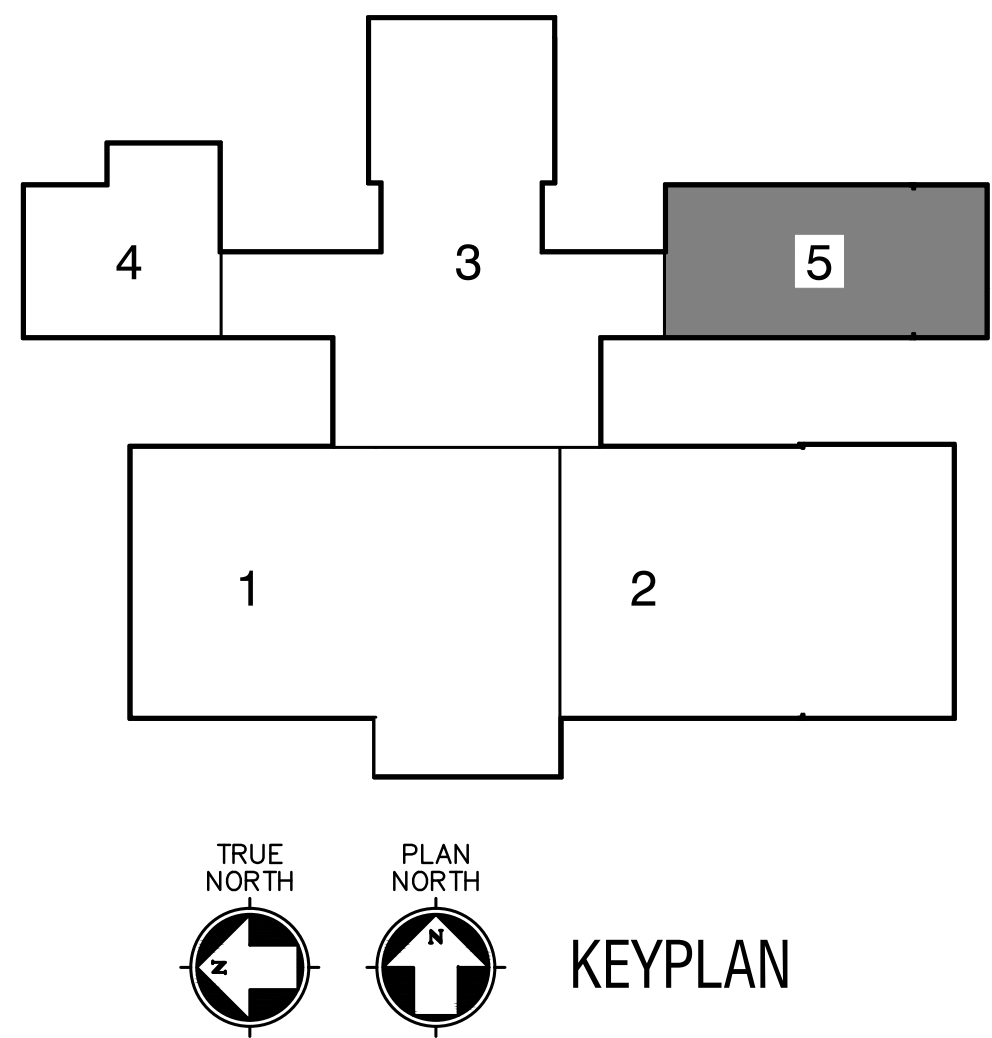


Drawing: 2/22/16 - MIDLOTHIAN I.S.D. BAXTER ES HVAC DRAWINGS/CAO/SHRETS/AM/SL/WH/ P.H. BY/BAKER MAND/ Plot Date: 5/7/2023 2:35 PM/ Plot Scale: 1/8" = 1'-0" Paper Size: 30" x 30" 30" x 30" 30" x 30"



01

DEMOLITION FLOOR PLAN - AREA 5 - HVAC
SCALE: 1/8" = 1'-0"



GENERAL DEMOLITION NOTES:

1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME INFORMED AS TO THE RELATION TO, AND EFFECT ON, THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL EFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION; AND, THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
5. CONTRACTOR SHALL CONTACT CONTROLS SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED AND ITEMS TO BE REMOVED. THE CONTROLS SYSTEM INSTALLER SHALL COORDINATE WITH THE OWNER FOR ELEMENTS OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER SUCH AS EXISTING TEMPERATURE SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALLETIZED, AND PROVIDED TO OWNER FOR THEIR USE.
6. DO NOT ABANDON ANY ITEMS IN PLACE. REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM CALLED OUT TO BE REMOVED. WHERE ITEMS ARE REMOVED PATCH/REPLACE ROOF, WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES. WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT AS NEEDED.
8. ALL EXISTING LIGHTS ARE TO BE RE-USED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.
9. CLEAN EXISTING RE-USED SUPPLY, RETURN AND EXHAUST GRILLES FREE OF ALL DUST AND DEBRIS.
10. WHERE NEW SENSORS MOUNTED LOWER THAN ORIGINAL OR IN DIFFERENT LOCATION, PROVIDE STAINLESS STEEL COVER PLATE OVER OLD LOCATION, AND PROVIDE NEW WIRING IN GYPSUM OR PLASTER WALLS TO NEW LOCATION OR PROVIDE PANDUIT FROM CEILING TO NEW LOCATION FOR SENSOR INSTALLED ON BRICK OR CMU WALLS. CONTROLS CONTRACTOR TO PROVIDE COVER PLATES AND PANDUIT.
11. REMOVE AND RE-INSTALL EXISTING LAY-IN AND GYPSUM CEILING AS REQUIRED TO ACCOMMODATE NEW DUCTWORK. PROVIDE NEW TILE AND GRID AS NEEDED. PATCH AND REPAIR AREAS OF GYPSUM CEILING TO MATCH EXISTING WHERE REQUIRED. WHERE GYPSUM CEILING IS REMOVED, PAINT ENTIRE ROOM CEILING AFTER PATCHING.
12. WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR TO RE-CONNECTING NEW UNITS TO EXISTING CONDENSATE DRAIN PIPING SYSTEM.
13. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
14. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
15. PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGH OUT THE BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

NOTES BY SYMBOL 'O':

1. EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW UNIT.
2. EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
3. EXISTING EXHAUST FAN ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
4. EXISTING CEILING MOUNTED EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
5. EXISTING COMBINATION TEMPERATURE/HUMIDITY SENSORS TO REMAIN AND BE RE-USED FOR NEW UNITS.



2023.04.28

ISSUES

01 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS

01 ADDENDUM 01 2023.05.05



T.E. BAXTER ES
HVAC REPLACEMENT
MIDLOTHIAN I.S.D.
1050 Park Pl Blvd, Midlothian, TX 76065

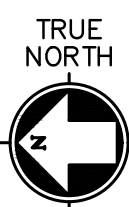
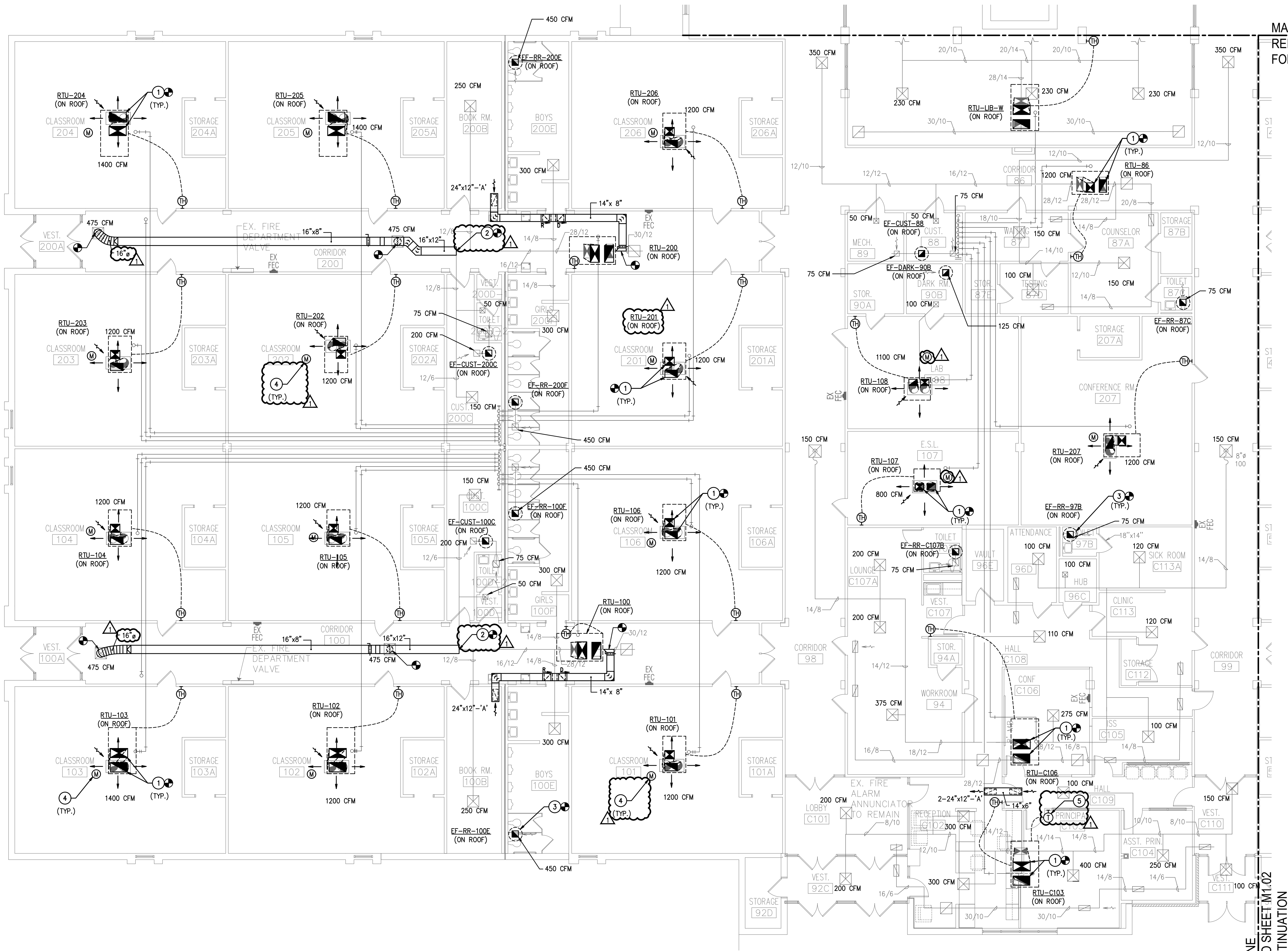
DEMOLITION FLOOR
PLAN - AREA 5 - HVAC

JOB NO.: 22146-00
DRAWN BY: ND
CHECKED BY: HW/NH

SHEET NO.

DM1.05

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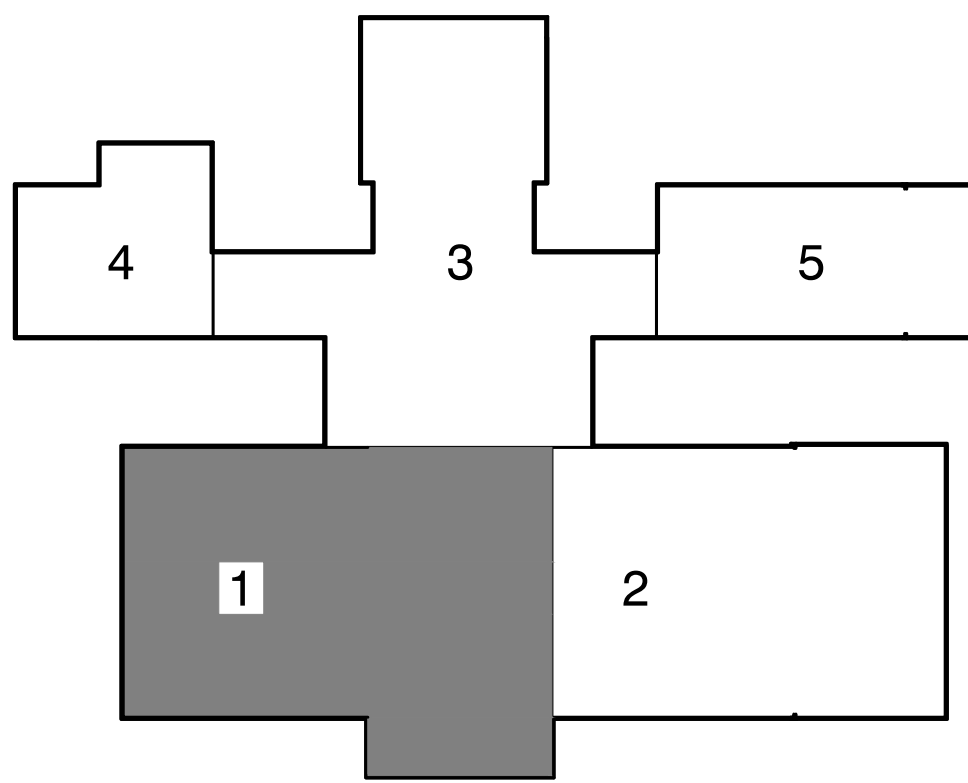
FLOOR PLAN - AREA 1 - HVAC
SCALE: 1/8" = 1'-0"

GENERAL MECHANICAL NOTES:

- RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1/4" THICK ACOUSTICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 IECC REQUIREMENTS. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0". ALL TRANSFER AIR DUCTS TO BE INTERNALLY LINED WITH 1" LINER. DUCTWORK SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE EXTERNALLY WRAPPED. FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.0.
- BRANCH RUN-OUTS TO CEILING MOUNTED AIR DEVICES SHALL BE SAME SIZE AS NECK, UNLESS NOTED OTHERWISE. PROVIDE A TWIST-IN FLARED TAP WITH MANUAL VOLUME DAMPER AT MAIN DUCT TAP, AND EXTEND AS SHOWN. EXTEND FLEXIBLE DUCTWORK A MAXIMUM OF 5'-0" FROM DIFFUSERS. INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS WITH CLAMPS TO BE USED AT BOTH ENDS.
- ALL DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE & CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE.
- LOCATE CEILING MOUNTED AIR DEVICES APPROXIMATELY WHERE SHOWN. VERIFY EXISTING CEILING TYPES TO CONFIRM FRAME MOUNTING TYPES REQUIRED. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR PLAN.
- EXISTING AND NEW DIFFUSERS FOR ALL DUCTWORK CONNECTED TO UNITS REPLACED OR ADDED TO BE BALANCED TO NEW AIRFLOW VALUES SHOWN. TAB FIRM CONTRACTED DIRECTLY WITH OWNER.
- WHERE EXISTING DUCTWORK IS REMOVED AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
- REMOVE EXISTING CEILING GRID AND TILE AS NEEDED TO REMOVE EXISTING AND INSTALL NEW DUCTWORK, PIPING, AND UNITS. REUSE EXISTING CEILING TILE AND GRID WHERE POSSIBLE. STORE AND STACK EXISTING TILE FOR REUSE AND PROTECT. WHERE NEW CEILING TILE IS REQUIRED, IT SHALL BE ALL NEW THROUGH THE ROOM. DO NOT MIX NEW AND EXISTING CEILING TILE IN THE SAME SPACE. ALL NEW CEILING HEIGHTS TO MATCH EXISTING CEILING HEIGHTS. ANY CEILINGS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
- EXISTING LIGHTS TO BE REUSED AND REMAIN IN PLACE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING REMOVAL.
- WHERE ITEMS ARE REMOVED PATCH WALLS, CEILING, OR FLOOR AS APPLICABLE TO MATCH EXISTING FINISHES.
- EXISTING SECURITY SYSTEM AND DEVICES TO REMAIN IN PLACE AND ACTIVE DURING CONSTRUCTION. ANY DEVICES IN CEILINGS TO BE REMOVED AND REPLACED TO BE TEMPORARILY SUPPORTED. ALL SECURITY SCOPE OF WORK TO BE CONTRACTED WITH SAS.
- CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES WHERE SIGNS OF RUST ARE NOTED ON EXISTING GRILLES TO MATCH EXISTING COLOR OF GRILLE.
- NEW TEMPERATURE SENSOR TO BE INSTALLED WHERE OLD SENSOR WAS REMOVED, WHEN IN COMPLIANCE WITH ADA HEIGHT REQUIREMENTS. WHEN NOT IN COMPLIANCE PROVIDE NEW SENSOR AT ADA HEIGHT AND PROVIDE STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING. RE-USE EXISTING WIRING PATHWAY TO ACCESSIBLE CEILING, UP TO ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED.
- PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND STAIRWELL TO BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

NOTES BY SYMBOL 'O':

- EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW UNIT CONNECTIONS ON ROOF.
- CONNECT NEW 16/12 DUCTWORK TO EXISTING 16/12 DUCTWORK AFTER DUCT TAP SERVING CUSTODIAN ROOM.
- EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW FAN CONNECTIONS ON ROOF.
- CEILING MOUNTED CARBON MONOXIDE SENSOR. COORDINATE EXACT LOCATION WITH EXISTING LIGHTING AND OTHER CEILING MOUNTED DEVICES. PROVIDE 120/1 POWER TO EACH SENSOR. REFER TO ELECTRICAL DRAWINGS.
- NEW TEMPERATURE SENSOR TO BE PROVIDED WHERE PREVIOUS SENSOR DID NOT EXIST. COORDINATE MOUNTING HEIGHT.



KEYPLAN



2023.04.28

ISSUES

01 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS

01 ADDENDUM 01 2023.05.05



T.E. BAXTER ES
HVAC REPLACEMENT
MIDLOTHIAN I.S.D.
1050 Park Pl Blvd, Midlothian, TX 76065

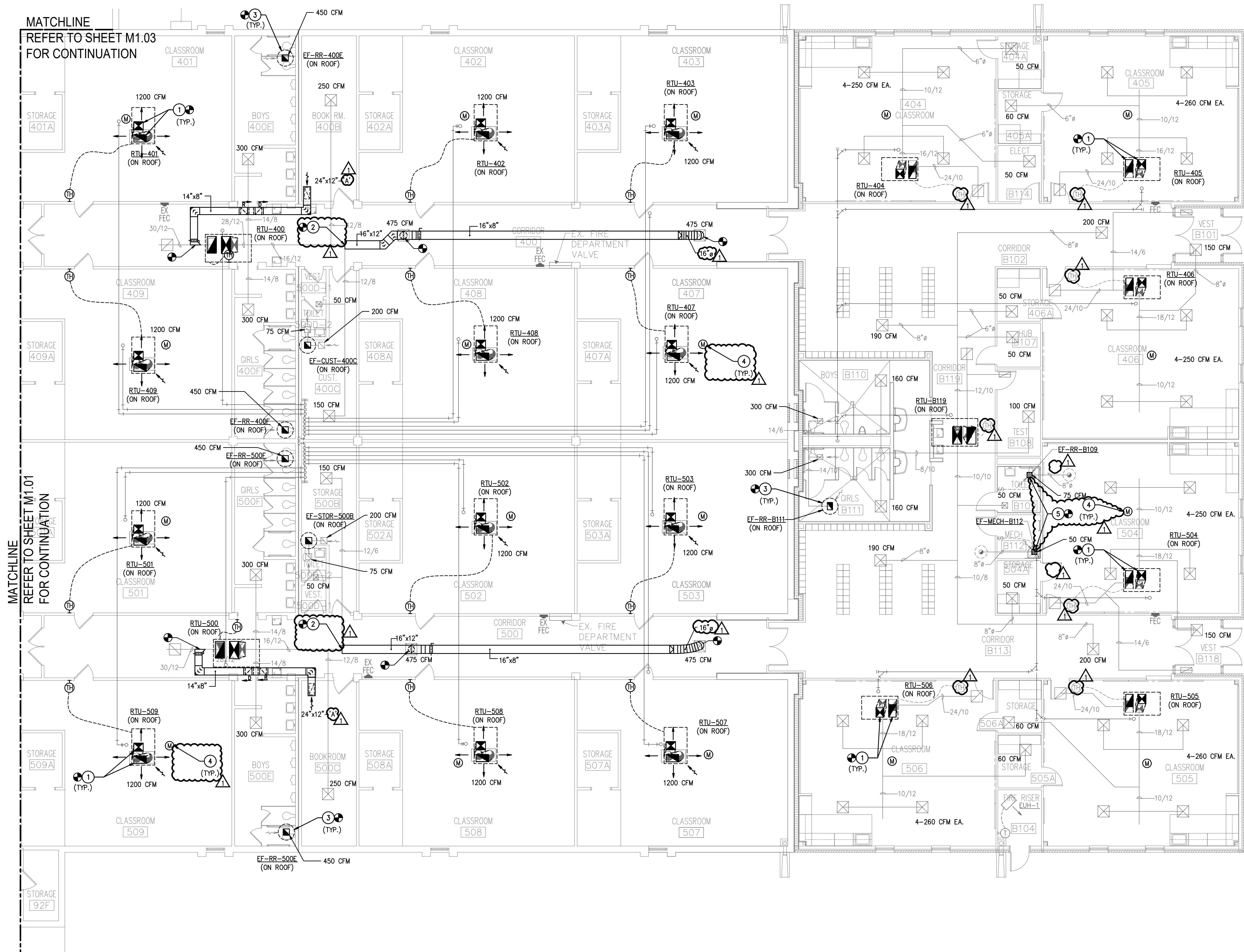
FLOOR PLAN - AREA 1
-HVAC

JOB NO.: 22146-00
DRAWN BY: ND
CHECKED BY: HJ/NH

SHEET NO.

M1.01

Drawing: 1/21/16 - MIDLOTHIAN ISD BAXTER ES HVAC/DRAWINGS/040/SHEETS/M1.02.DWG, Plot Date: 5/17/2023 2:50 PM, Plot Scale: 1:1, Paper Size: 36" x 48" IN



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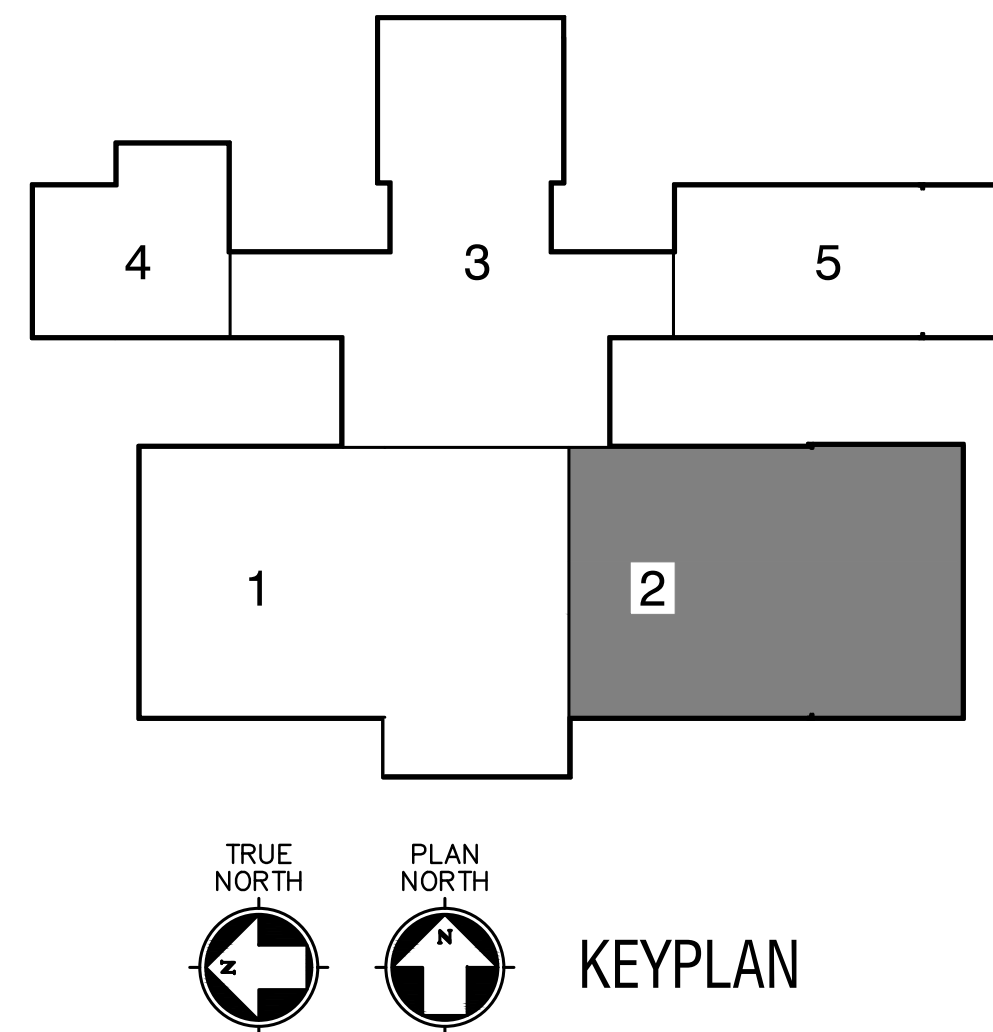
FLOOR PLAN - AREA 2 - HVAC
SCALE: 1/8" = 1'-0"

GENERAL MECHANICAL NOTES:

1. RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1/2" THICK ACOUSTICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 IECC REQUIREMENTS. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0". ALL TRANSFER AIR DUCTS TO BE INTERNALLY LINED WITH 1" LINER. DUCTWORK SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE EXTERNALLY WRAPPED. FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.0.
2. BRANCH RUN-OUTS TO CEILING MOUNTED AIR DEVICES SHALL BE SAME SIZE AS NECK, UNLESS NOTED OTHERWISE. PROVIDE A TWIST-IN FLARED TAP WITH MANUAL VOLUME DAMPER AT MAIN DUCT TAP, AND EXTEND AS SHOWN. EXTEND FLEXIBLE DUCTWORK A MAXIMUM OF 5'-0" FROM DIFFUSERS. INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS WITH CLAMPS TO BE USED AT BOTH ENDS.
3. ALL DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE & CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE.
4. LOCATE CEILING MOUNTED AIR DEVICES APPROXIMATELY WHERE SHOWN. VERIFY EXISTING CEILING TYPES TO CONFIRM FRAME MOUNTING TYPES REQUIRED. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR PLAN.
5. EXISTING AND NEW DIFFUSERS FOR ALL DUCTWORK CONNECTED TO UNITS REPLACED OR ADDED TO BE BALANCED TO NEW AIRFLOW VALUES SHOWN. TAB FIRM CONTRACTED DIRECTLY WITH OWNER.
6. WHERE EXISTING DUCTWORK IS REMOVED AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
7. REMOVE EXISTING CEILING GRID AND TILE AS NEEDED TO REMOVE EXISTING AND INSTALL NEW DUCTWORK, PIPING, AND UNITS. REUSE EXISTING CEILING TILE AND GRID WHERE POSSIBLE. STORE AND STACK EXISTING TILE FOR REUSE AND PROTECT. WHERE NEW CEILING TILE IS REQUIRED, IT SHALL BE ALL NEW THROUGH THE ROOM. DO NOT MIX NEW AND EXISTING CEILING TILE IN THE SAME SPACE. ALL NEW CEILING HEIGHTS TO MATCH EXISTING CEILING HEIGHTS. ANY CEILINGS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
8. EXISTING LIGHTS TO BE REUSED AND REMAIN IN PLACE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING REMOVAL.
9. WHERE ITEMS ARE REMOVED PATCH WALLS, CEILING, OR FLOOR AS APPLICABLE TO MATCH EXISTING FINISHES.
10. EXISTING SECURITY SYSTEM AND DEVICES TO REMAIN IN PLACE AND ACTIVE DURING CONSTRUCTION. ANY DEVICES IN CEILINGS TO BE REMOVED AND REPLACED TO BE TEMPORARILY SUPPORTED. ALL SECURITY SCOPE OF WORK TO BE CONTRACTED WITH SAS.
11. CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES TO MATCH EXISTING CEILING HEIGHTS. ANY CEILINGS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
12. NEW TEMPERATURE SENSOR TO BE INSTALLED WHERE OLD SENSOR WAS REMOVED, WHEN IN COMPLIANCE WITH ADA HEIGHT REQUIREMENTS. WHEN NOT IN COMPLIANCE PROVIDE NEW SENSOR AT ADA HEIGHT AND PROVIDE STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING. RE-USE EXISTING WIRING PATHWAY TO ACCESSIBLE CEILING, UP TO ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED.
13. PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND STAIRWELL TO BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

NOTES BY SYMBOL 'O':

- 1 EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW UNIT CONNECTIONS ON ROOF.
- 2 CONNECT NEW 16/12 DUCTWORK TO EXISTING 16/12 DUCTWORK AFTER DUCT TAP SERVING CUSTODIAN ROOM.
- 3 EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW FAN CONNECTIONS ON ROOF.
- 4 CEILING MOUNTED CARBON MONOXIDE SENSOR. COORDINATE EXACT LOCATION WITH EXISTING LIGHTING AND OTHER CEILING MOUNTED DEVICES. PROVIDE 120/1 POWER TO EACH SENSOR. REFER TO ELECTRICAL DRAWINGS.
- 5 PROVIDE NEW CEILING MOUNTED EXHAUST FAN AND CONNECT TO EXISTING EXHAUST DUCT AND ROOM CONTROLS.



2023.04.28

ISSUES

01 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS

01 ADDENDUM 01 2023.05.05



T.E. BAXTER ES
HVAC REPLACEMENT
MIDLOTHIAN I.S.D.
1050 Park Pl Blvd, Midlothian, TX 76065

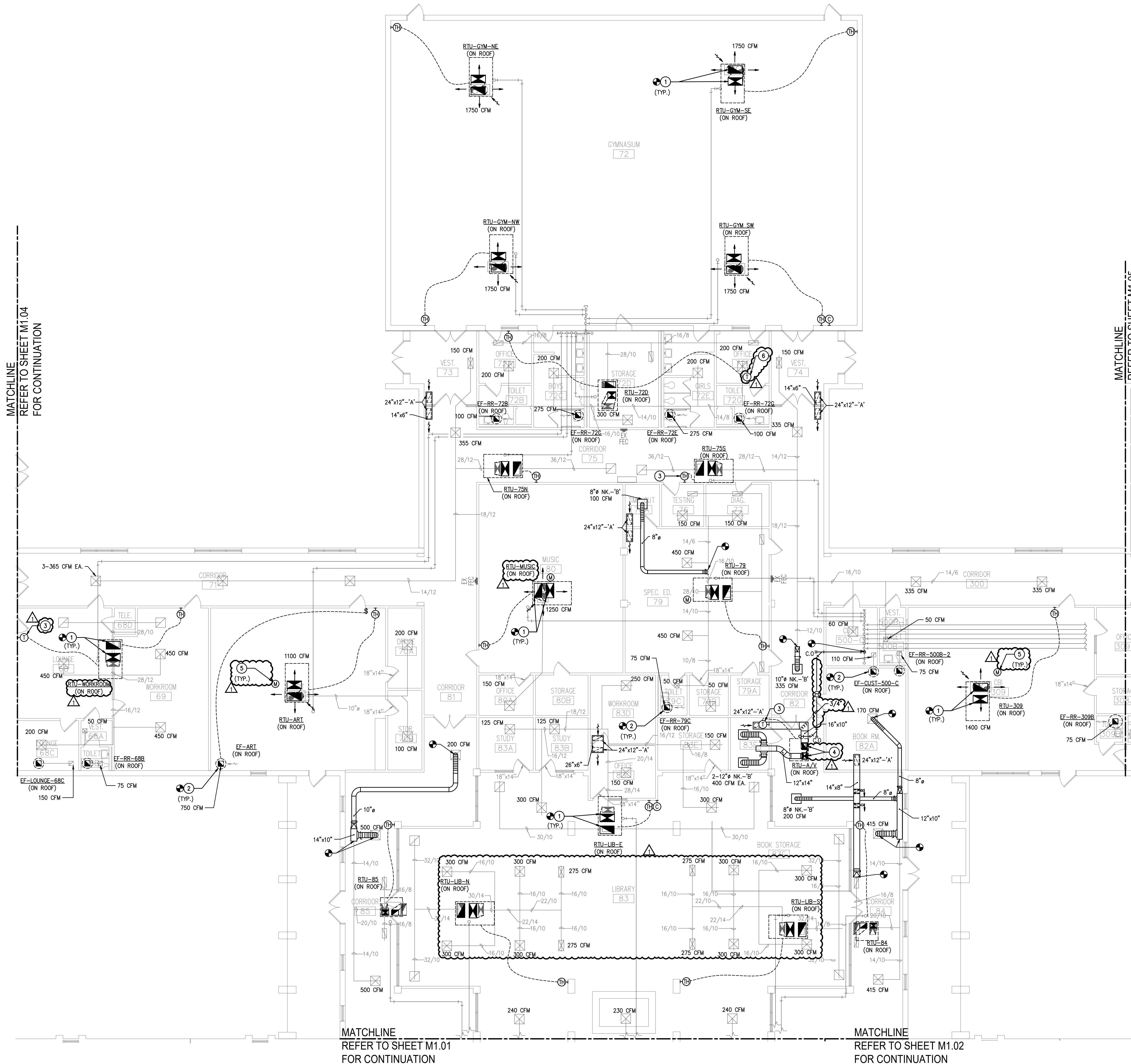
FLOOR PLAN - AREA 2
-HVAC

JOB NO.: 22146-00
DRAWN BY: ND
CHECKED BY: HW/ND

SHEET NO.

M1.02

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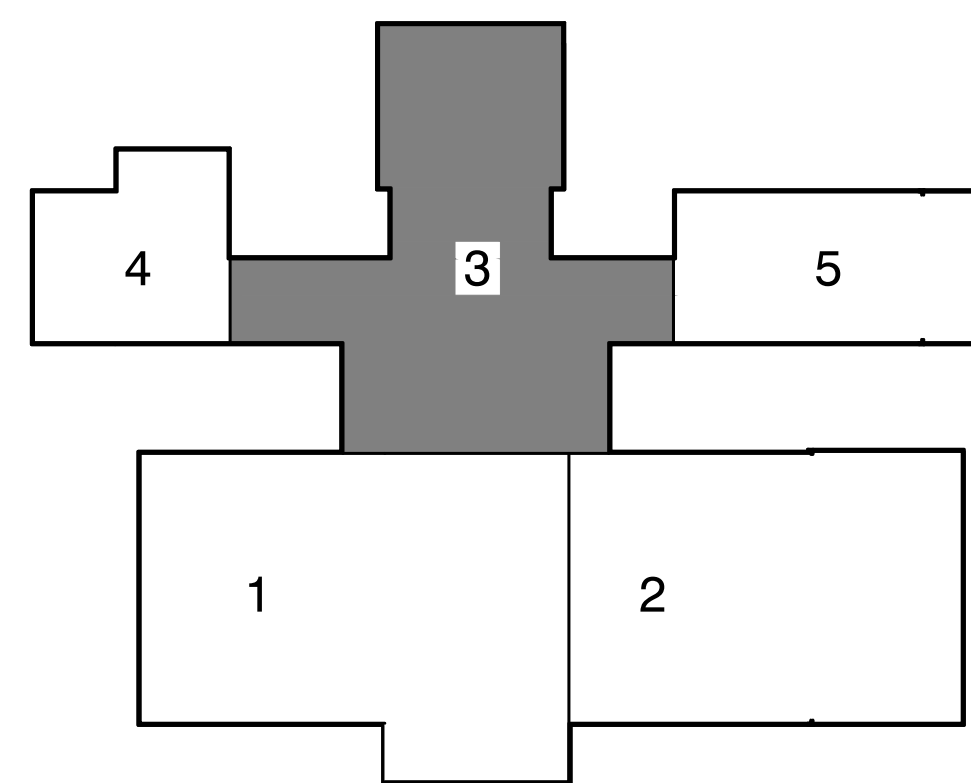
TRUE NORTH
PLAN NORTH
01 FLOOR PLAN - AREA 3 - HVAC
SCALE: 1/8" = 1'-0"

GENERAL MECHANICAL NOTES:

- RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1/2" THICK ACOUSTICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 IECC REQUIREMENTS. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0". ALL TRANSFER AIR DUCTS TO BE INTERNALLY LINED WITH 1" LINER. DUCTWORK SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE EXTERNALLY WRAPPED. FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.0.
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- ALL DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE & CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE.
- LOCATE CEILING MOUNTED AIR DEVICES APPROXIMATELY WHERE SHOWN. VERIFY EXISTING CEILING TYPES TO CONFIRM FRAME MOUNTING TYPES REQUIRED. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR PLAN.
- EXISTING AND NEW DIFFUSERS FOR ALL DUCTWORK CONNECTED TO UNITS REPLACED OR ADDED TO BE BALANCED TO NEW AIRFLOW VALUES SHOWN. TAB FIRM CONTRACTED DIRECTLY WITH OWNER.
- WHERE EXISTING DUCTWORK IS REMOVED AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
- REMOVE EXISTING CEILING GRID AND TILE AS NEEDED TO REMOVE EXISTING AND INSTALL NEW DUCTWORK, PIPING, AND UNITS. REUSE EXISTING CEILING TILE AND GRID WHERE POSSIBLE. STORE AND STACK EXISTING TILE FOR REUSE AND PROTECT. WHERE NEW CEILING TILE IS REQUIRED, IT SHALL BE ALL NEW THROUGH THE ROOM. DO NOT MIX NEW AND EXISTING CEILING TILE IN THE SAME SPACE. ALL NEW CEILING HEIGHTS TO MATCH EXISTING CEILING HEIGHTS. ANY CEILINGS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
- EXISTING LIGHTS TO BE REUSED AND REMAIN IN PLACE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING REMOVAL.
- WHERE ITEMS ARE REMOVED PATCH WALLS, CEILING, OR FLOOR AS APPLICABLE TO MATCH EXISTING FINISHES.
- EXISTING SECURITY SYSTEM AND DEVICES TO REMAIN IN PLACE AND ACTIVE DURING CONSTRUCTION. ANY DEVICES IN CEILINGS TO BE REMOVED AND REPLACED TO BE TEMPORARILY SUPPORTED. ALL SECURITY SCOPE OF WORK TO BE CONTRACTED WITH SAS.
- CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES WHERE SIGNS OF RUST ARE NOTED ON EXISTING GRILLES TO MATCH EXISTING COLOR OF GRILLE.
- NEW TEMPERATURE SENSOR TO BE INSTALLED WHERE OLD SENSOR WAS REMOVED, WHEN IN COMPLIANCE WITH ADA HEIGHT REQUIREMENTS. WHEN NOT IN COMPLIANCE PROVIDE NEW SENSOR AT ADA HEIGHT AND PROVIDE STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING. RE-USE EXISTING WIRING PATHWAY TO ACCESSIBLE CEILING, UP TO ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED.
- PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND STAIRWELL TO BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

NOTES BY SYMBOL 'O':

- EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW UNIT CONNECTIONS ON ROOF.
- EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW FAN CONNECTIONS ON ROOF.
- NEW TEMPERATURE OR TEMPERATURE/HUMIDITY SENSOR.
- NEW SUPPLY AND RETURN DUCTWORK TRANSITION IN VERTICAL TO NEW UNIT CONNECTIONS ON ROOF.
- CEILING MOUNTED CARBON MONOXIDE SENSOR. COORDINATE EXACT LOCATION WITH EXISTING LIGHTING AND OTHER CEILING MOUNTED DEVICES. PROVIDE 120/1 POWER TO EACH SENSOR. REFER TO ELECTRICAL DRAWINGS.
- NEW TEMPERATURE SENSOR TO BE PROVIDED WHERE PREVIOUS SENSOR DID NOT EXIST. COORDINATE MOUNTING HEIGHT.



TRUE NORTH
PLAN NORTH
KEYPLAN



2023.04.28

ISSUES

01	ISSUE FOR CONSTRUCTION	2023.04.28
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REVISIONS

01	ADDENDUM 01	2023.05.05
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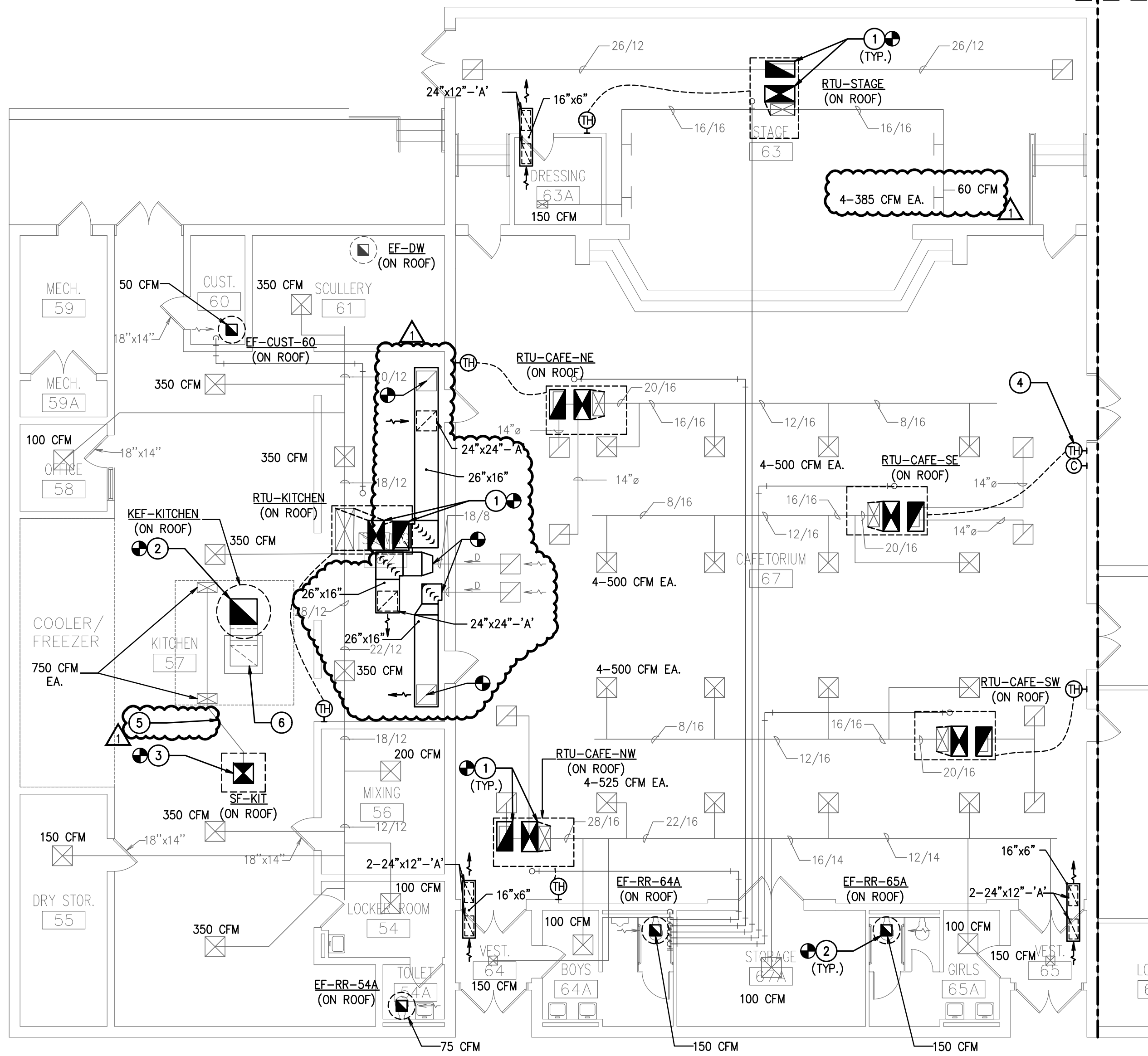


T.E. BAXTER ES
HVAC REPLACEMENT
MIDLOTHIAN I.S.D.
1050 Park Pl Blvd, Midlothian, TX 76065

FLOOR PLAN - AREA 3
-HVAC

JOB NO.: 22146-00
DRAWN BY: ND
CHECKED BY: HW/NH
SHEET NO.

M1.03



TRUE NORTH
PLAN NORTH
01 FLOOR PLAN - AREA 4 - HVAC
SCALE: 1/8" = 1'-0"

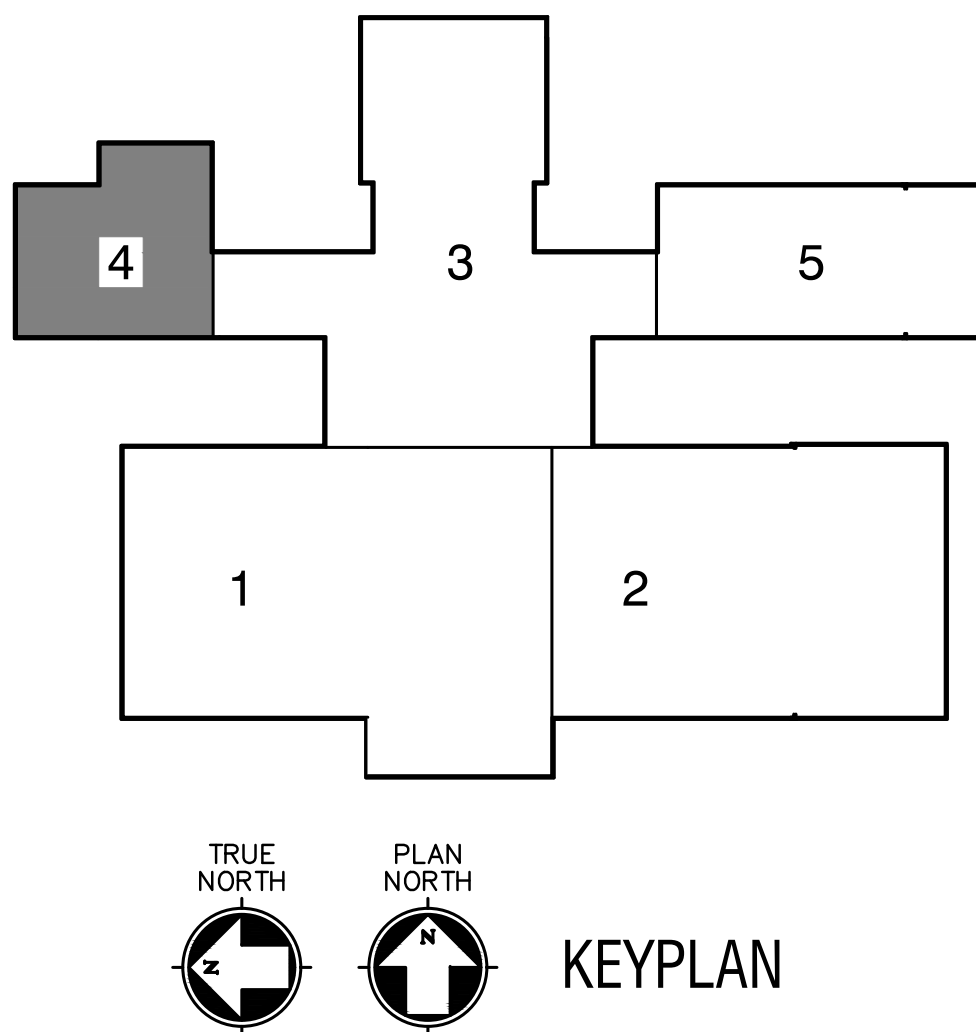
MATCHLINE
REFER TO SHEET M1.03
FOR CONTINUATION

GENERAL MECHANICAL NOTES:

- RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1/2" THICK ACOUSTICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 IECC REQUIREMENTS. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0". ALL TRANSFER AIR DUCTS TO BE INTERNALLY LINED WITH 1" LINER. DUCTWORK SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE EXTERNALLY WRAPPED. FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.0.
- BRANCH RUN-OUTS TO CEILING MOUNTED AIR DEVICES SHALL BE SAME SIZE AS NECK, UNLESS NOTED OTHERWISE. PROVIDE A TWIST-IN FLARED TAP WITH MANUAL VOLUME DAMPER AT MAIN DUCT TAP, AND EXTEND AS SHOWN. EXTEND FLEXIBLE DUCTWORK A MAXIMUM OF 5'-0" FROM DIFFUSERS, INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS WITH CLAMPS TO BE USED AT BOTH ENDS.
- ALL DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE & CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE.
- LOCATE CEILING MOUNTED AIR DEVICES APPROXIMATELY WHERE SHOWN. VERIFY EXISTING CEILING TYPES TO CONFIRM FRAME MOUNTING TYPES REQUIRED. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR PLAN.
- EXISTING AND NEW DIFFUSERS FOR ALL DUCTWORK CONNECTED TO UNITS REPLACED OR ADDED TO BE BALANCED TO NEW AIRFLOW VALUES SHOWN. TAB FIRM CONTRACTED DIRECTLY WITH OWNER.
- WHERE EXISTING DUCTWORK IS REMOVED AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
- REMOVE EXISTING CEILING GRID AND TILE AS NEEDED TO REMOVE EXISTING AND INSTALL NEW DUCTWORK, PIPING, AND UNITS. REUSE EXISTING CEILING TILE AND GRID WHERE POSSIBLE. STORE AND STACK EXISTING TILE FOR REUSE AND PROTECT. WHERE NEW CEILING TILE IS REQUIRED, IT SHALL BE ALL NEW THROUGH THE ROOM. DO NOT MIX NEW AND EXISTING CEILING TILE IN THE SAME SPACE. ALL NEW CEILING HEIGHTS TO MATCH EXISTING CEILING HEIGHTS. ANY CEILINGS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
- EXISTING LIGHTS TO BE REUSED AND REMAIN IN PLACE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING REMOVAL.
- WHERE ITEMS ARE REMOVED PATCH WALLS, CEILING, OR FLOOR AS APPLICABLE TO MATCH EXISTING FINISHES.
- EXISTING SECURITY SYSTEM AND DEVICES TO REMAIN IN PLACE AND ACTIVE DURING CONSTRUCTION. ANY DEVICES IN CEILINGS TO BE REMOVED AND REPLACED TO BE TEMPORARILY SUPPORTED. ALL SECURITY SCOPE OF WORK TO BE CONTRACTED WITH SAS.
- CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES WHERE SIGNS OF RUST ARE NOTED ON EXISTING GRILLES TO MATCH EXISTING COLOR OF GRILLE.
- NEW TEMPERATURE SENSOR TO BE INSTALLED WHERE OLD SENSOR WAS REMOVED, WHEN IN COMPLIANCE WITH ADA HEIGHT REQUIREMENTS. WHEN NOT IN COMPLIANCE PROVIDE NEW SENSOR AT ADA HEIGHT AND PROVIDE STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING. RE-USE EXISTING WIRING PATHWAY TO ACCESSIBLE CEILING, UP TO ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED.
- PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK. THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND STAIRWELL TO BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

NOTES BY SYMBOL 'O':

- EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW UNIT CONNECTIONS ON ROOF.
- EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW FAN CONNECTIONS ON ROOF.
- EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW MAKE-UP AIR UNIT CONNECTION ON THE ROOF.
- PROVIDE NEW TEMPERATURE, HUMIDITY, AND CO2 SENSOR. CONNECT TO NEW UNIT ON THE ROOF.
- PROVIDE NEW EXTERNAL DUCT INSULATION ON MAKE-UP AIR DUCT AS NOTED IN SPECIFICATIONS FROM HOOD CONNECTION BACK TO FAN CONNECTION ON ROOF.
- PROVIDE NEW FLYRE WRAP INSULATION ON KITCHEN GREASE HOOD EXHAUST DUCTWORK FROM HOOD CONNECTION BACK TO FAN CONNECTION ON ROOF.



2023.04.28

ISSUES

01	ISSUE FOR CONSTRUCTION	2023.04.28
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REVISIONS

01	ADDENDUM 01	2023.05.05
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T.E. BAXTER ES
HVAC REPLACEMENT
MIDLOTHIAN I.S.D.
1050 Park Pl Blvd, Midlothian, TX 76065

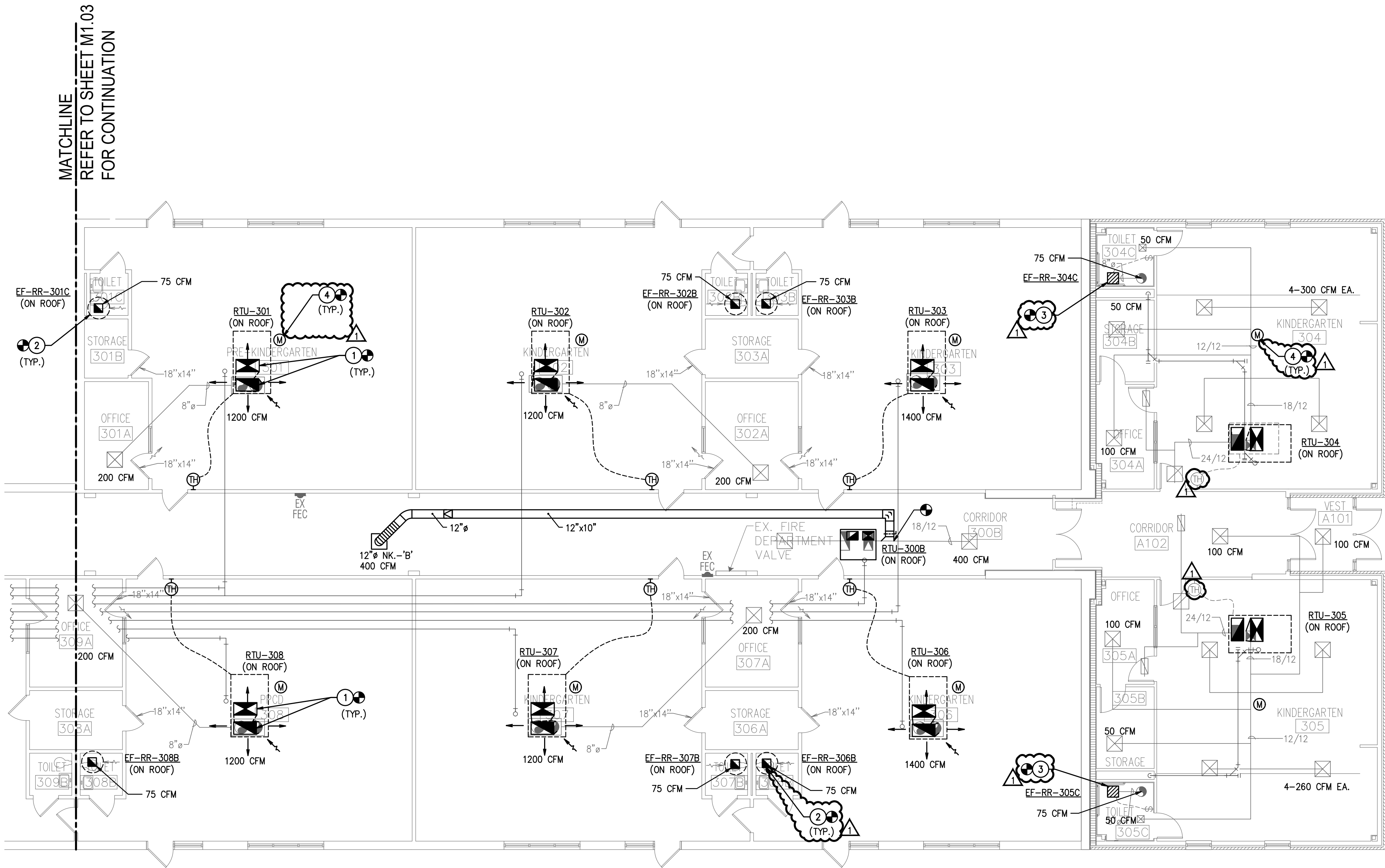
FLOOR PLAN - AREA 4
-HVAC

JOB NO.: 22146-00
DRAWN BY: ND
CHECKED BY: HW/NH

SHEET NO.

M1.04

Drawing: M1.05 - MIDLOTHIAN I.S.D. BAXTER ES HVAC REPLACEMENT CAD SHEET: M1.05.DWG Plot Date: 5/7/2023 2:50 PM Plot By: BAXTER ES Paper Size: 36" x 48" IN



01

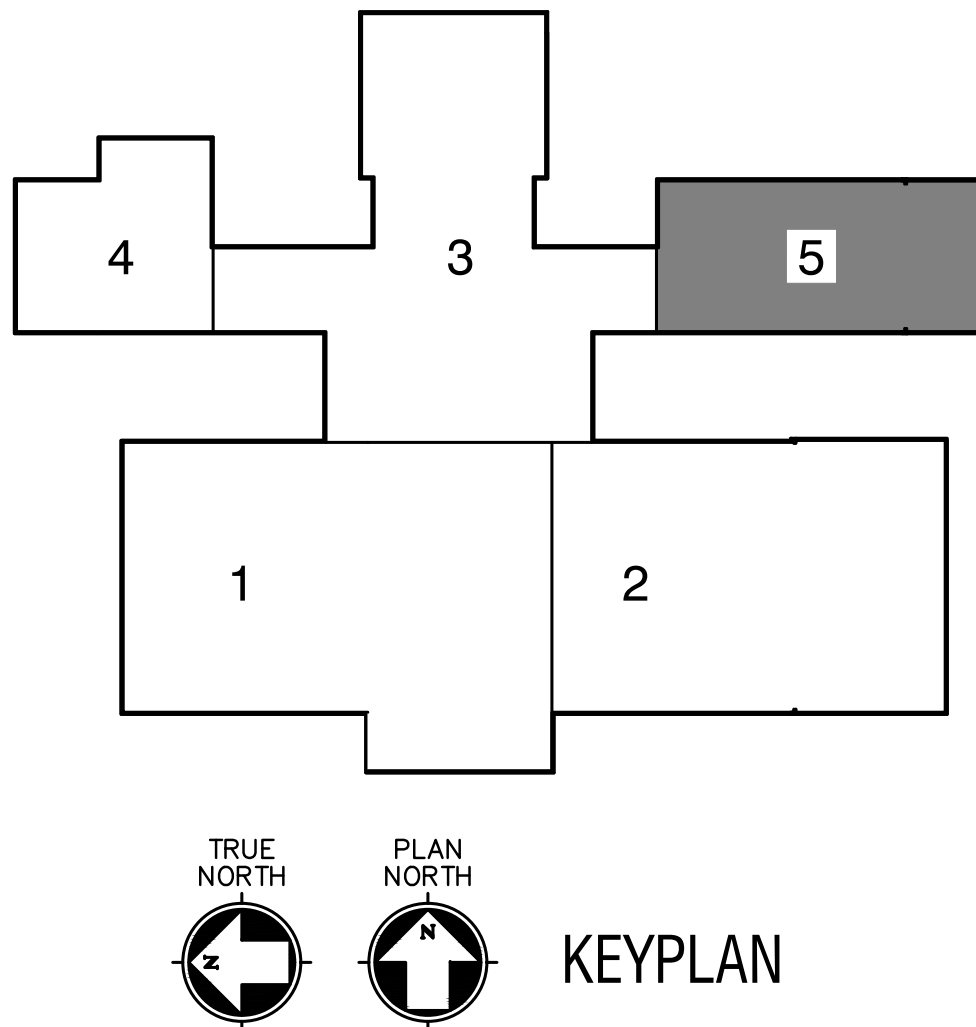
FLOOR PLAN - AREA 5 - HVAC
SCALE: 1/8" = 1'-0"

GENERAL MECHANICAL NOTES:

1. RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1/2" THICK ACOUSTICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 IECC REQUIREMENTS. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0". ALL TRANSFER AIR DUCTS TO BE INTERNALLY LINED WITH 1" LINER. DUCTWORK SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE EXTERNALLY WRAPPED. FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.0.
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3. ALL DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE & CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE.
4. LOCATE CEILING MOUNTED AIR DEVICES APPROXIMATELY WHERE SHOWN. VERIFY EXISTING CEILING TYPES TO CONFIRM FRAME MOUNTING TYPES REQUIRED. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR PLAN.
5. EXISTING AND NEW DIFFUSERS FOR ALL DUCTWORK CONNECTED TO UNITS REPLACED OR ADDED TO BE BALANCED TO NEW AIRFLOW VALUES SHOWN. TAB FIRM CONTRACTED DIRECTLY WITH OWNER.
6. WHERE EXISTING DUCTWORK IS REMOVED AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
7. REMOVE EXISTING CEILING GRID AND TILE AS NEEDED TO REMOVE EXISTING AND INSTALL NEW DUCTWORK, PIPING, AND UNITS. REUSE EXISTING CEILING TILE AND GRID WHERE POSSIBLE. STORE AND STACK EXISTING TILE FOR REUSE AND PROTECT WHERE NEW CEILING TILE IS REQUIRED, IT SHALL BE ALL NEW THROUGH THE ROOM. DO NOT MIX NEW AND EXISTING CEILING TILE IN THE SAME SPACE. ALL NEW CEILING HEIGHTS TO MATCH EXISTING CEILING HEIGHTS. ANY CEILINGS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
8. EXISTING LIGHTS TO BE REUSED AND REMAIN IN PLACE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING REMOVAL.
9. WHERE ITEMS ARE REMOVED PATCH WALLS, CEILING, OR FLOOR AS APPLICABLE TO MATCH EXISTING FINISHES.
10. EXISTING SECURITY SYSTEM AND DEVICES TO REMAIN IN PLACE AND ACTIVE DURING CONSTRUCTION. ANY DEVICES IN CEILINGS TO BE REMOVED AND REPLACED TO BE TEMPORARILY SUPPORTED. ALL SECURITY SCOPE OF WORK TO BE CONTRACTED WITH SAS.
11. CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES WHERE SIGNS OF RUST ARE NOTED ON EXISTING GRILLES TO MATCH EXISTING COLOR OF GRILLE.
12. NEW TEMPERATURE SENSOR TO BE INSTALLED WHERE OLD SENSOR WAS REMOVED, WHEN IN COMPLIANCE WITH ADA HEIGHT REQUIREMENTS. WHEN NOT IN COMPLIANCE PROVIDE NEW SENSOR AT ADA HEIGHT AND PROVIDE STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING. RE-USE EXISTING WIRING PATHWAY TO ACCESSIBLE CEILING, UP TO ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED.
13. PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND STAIRWELL TO BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

NOTES BY SYMBOL 'O':

- 1 EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW UNIT CONNECTIONS ON ROOF.
- 2 EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW FAN CONNECTIONS ON ROOF.
- 3 PROVIDE NEW CEILING MOUNTED EXHAUST FAN AND CONNECT TO EXISTING EXHAUST DUCT AND ROOM CONTROLS.
- 4 CEILING MOUNTED CARBON MONOXIDE SENSOR. COORDINATE EXACT LOCATION WITH EXISTING LIGHTING AND OTHER CEILING MOUNTED DEVICES. PROVIDE 120/1 LOCATION TO EACH SENSOR. REFER TO ELECTRICAL DRAWINGS.



2023.04.28

ISSUES

01 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS

01 ADDENDUM 01 2023.05.05



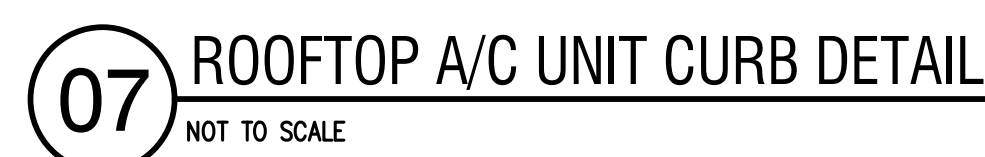
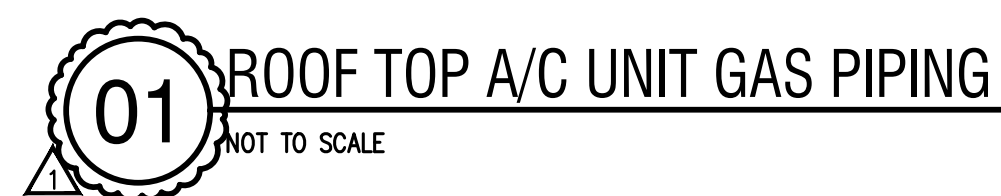
T.E. BAXTER ES
HVAC REPLACEMENT
MIDLOTHIAN I.S.D.
1050 Park Pl Blvd, Midlothian, TX 76065

FLOOR PLAN - AREA 5
-HVAC

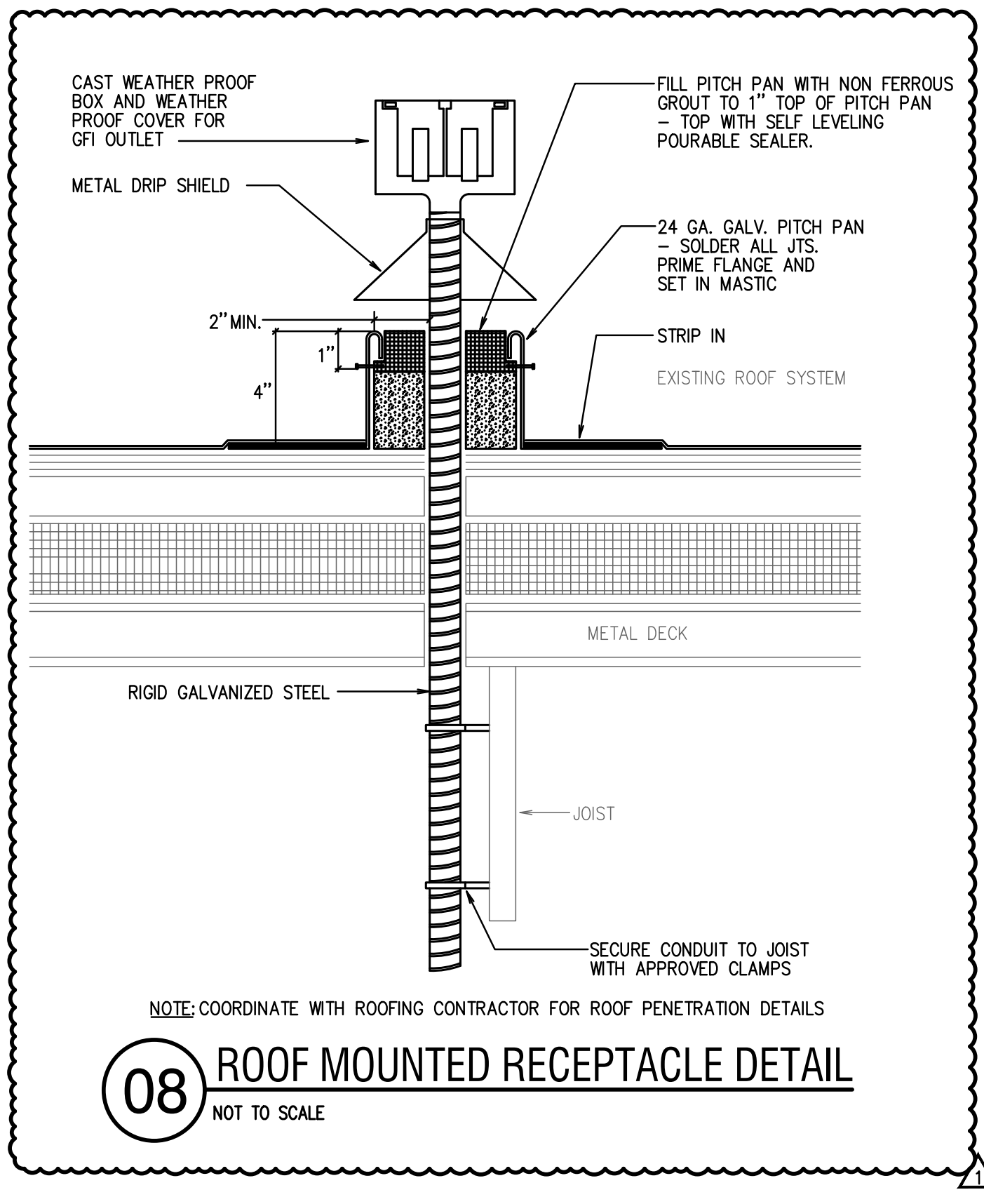
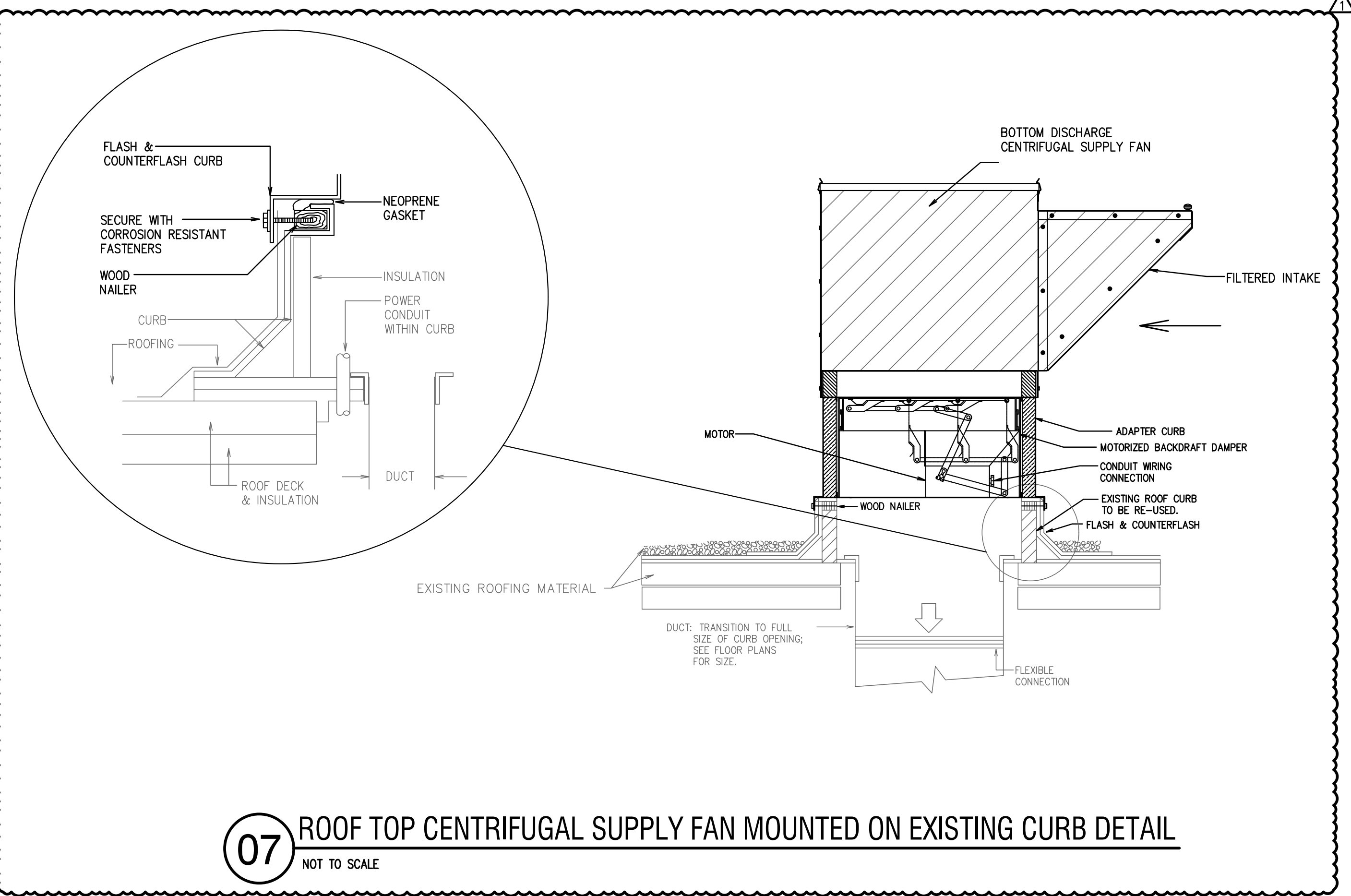
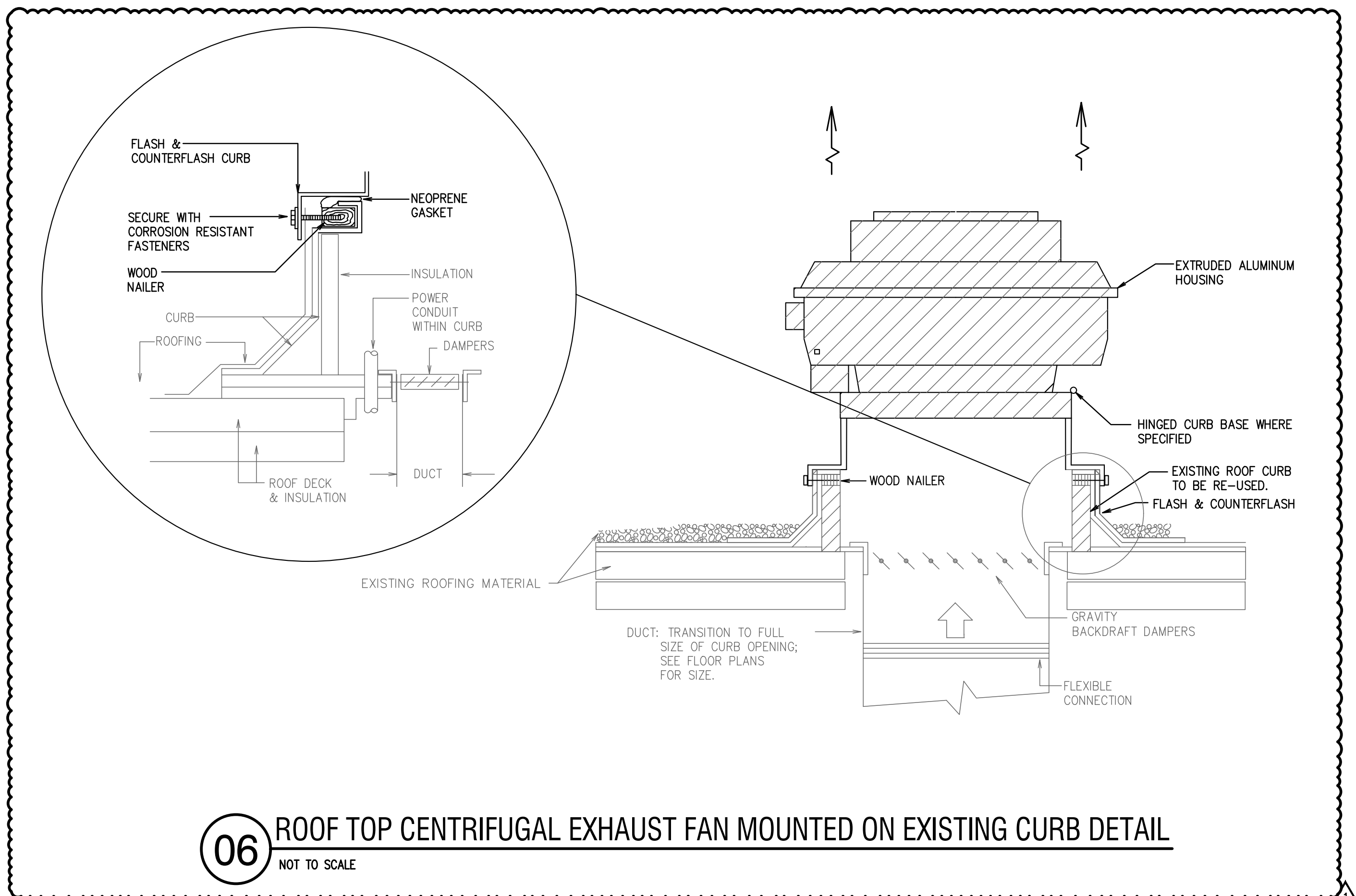
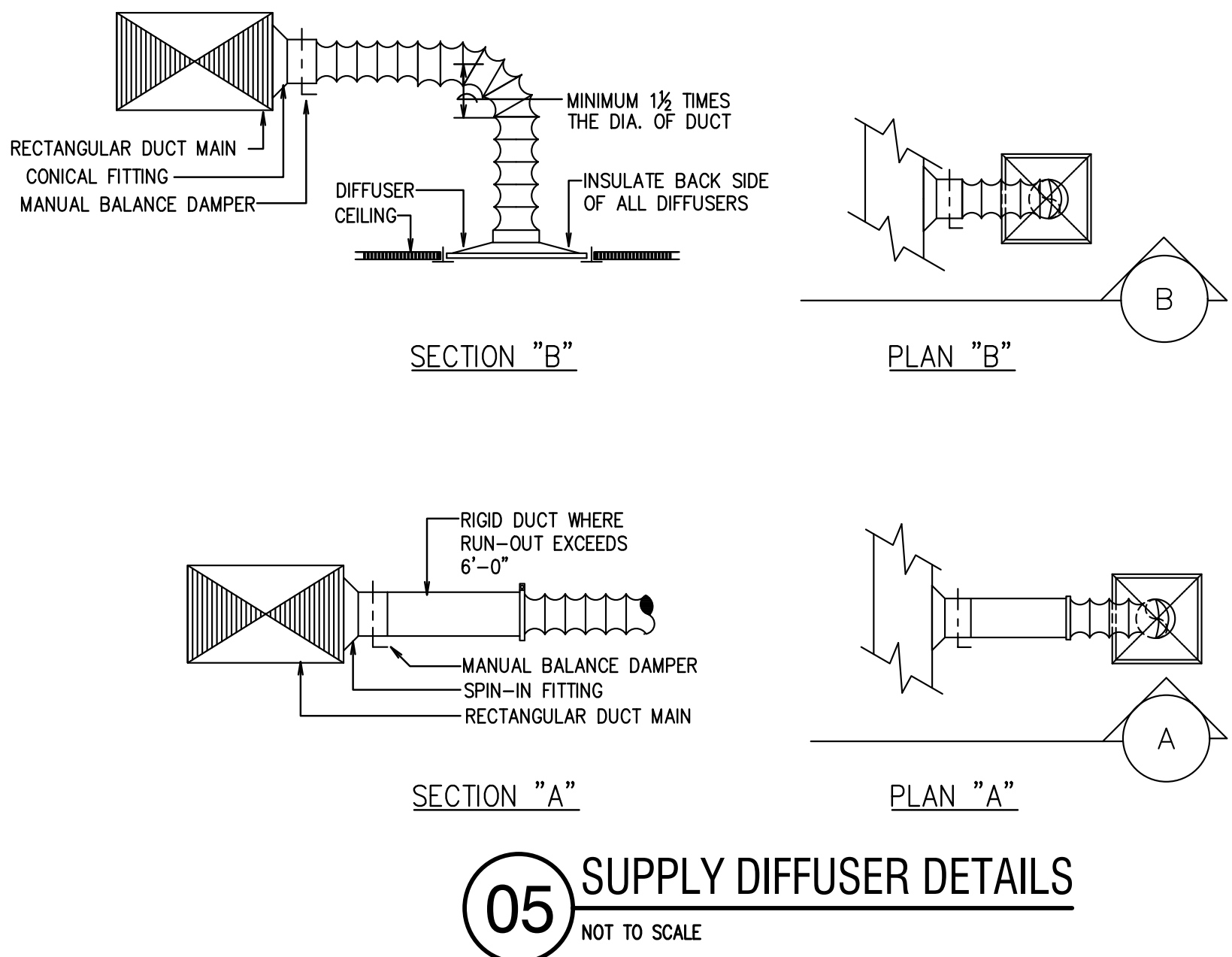
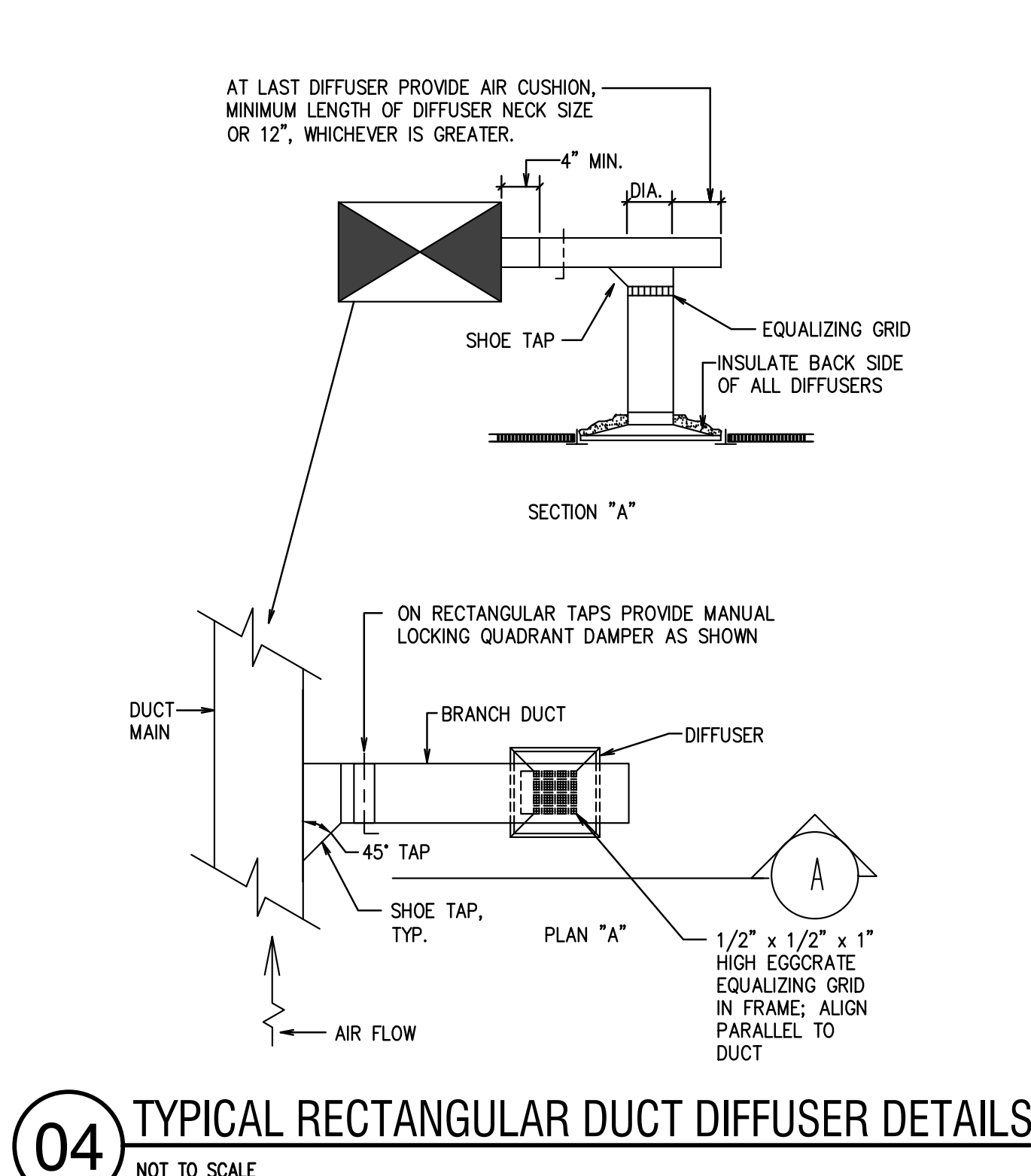
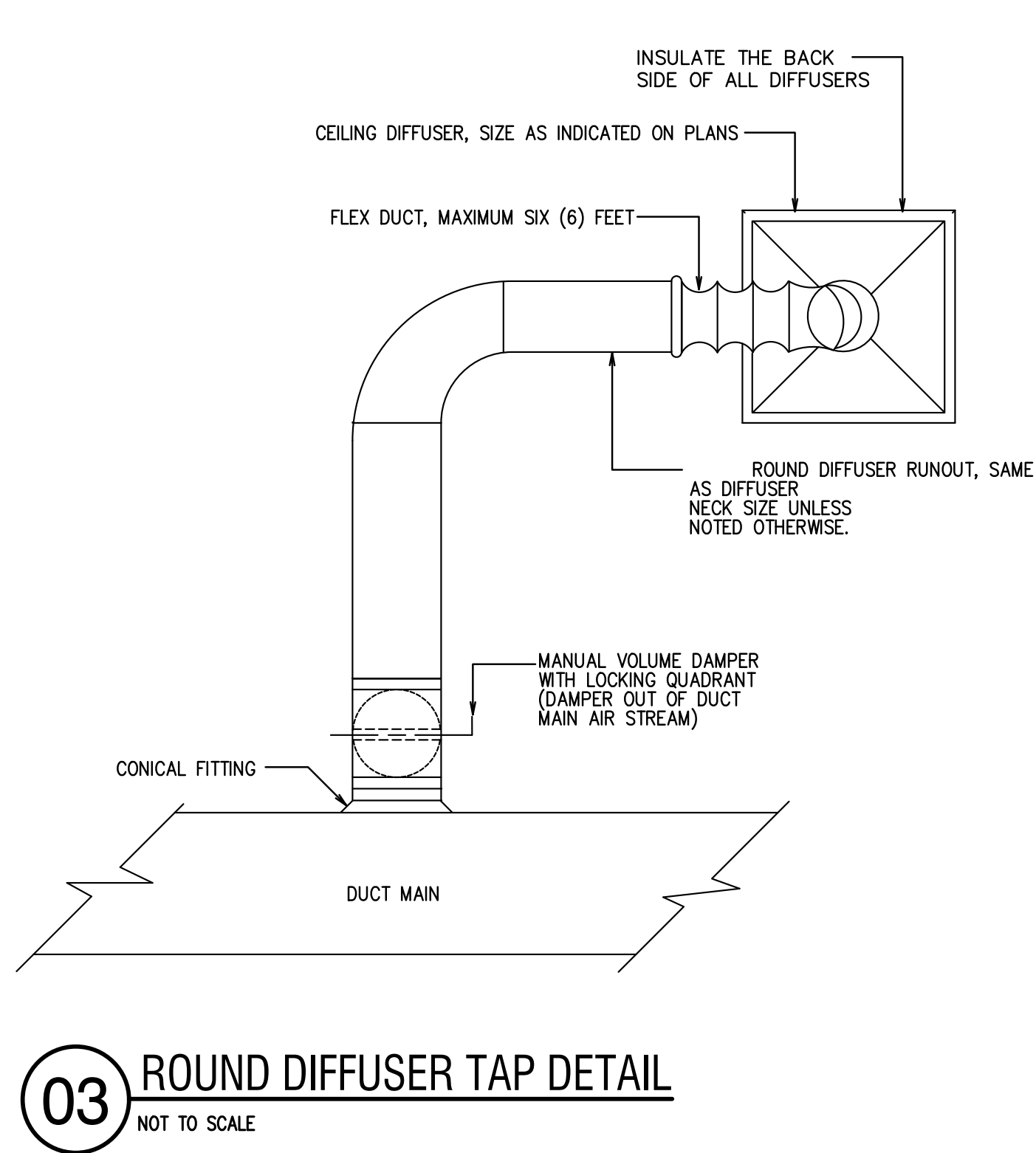
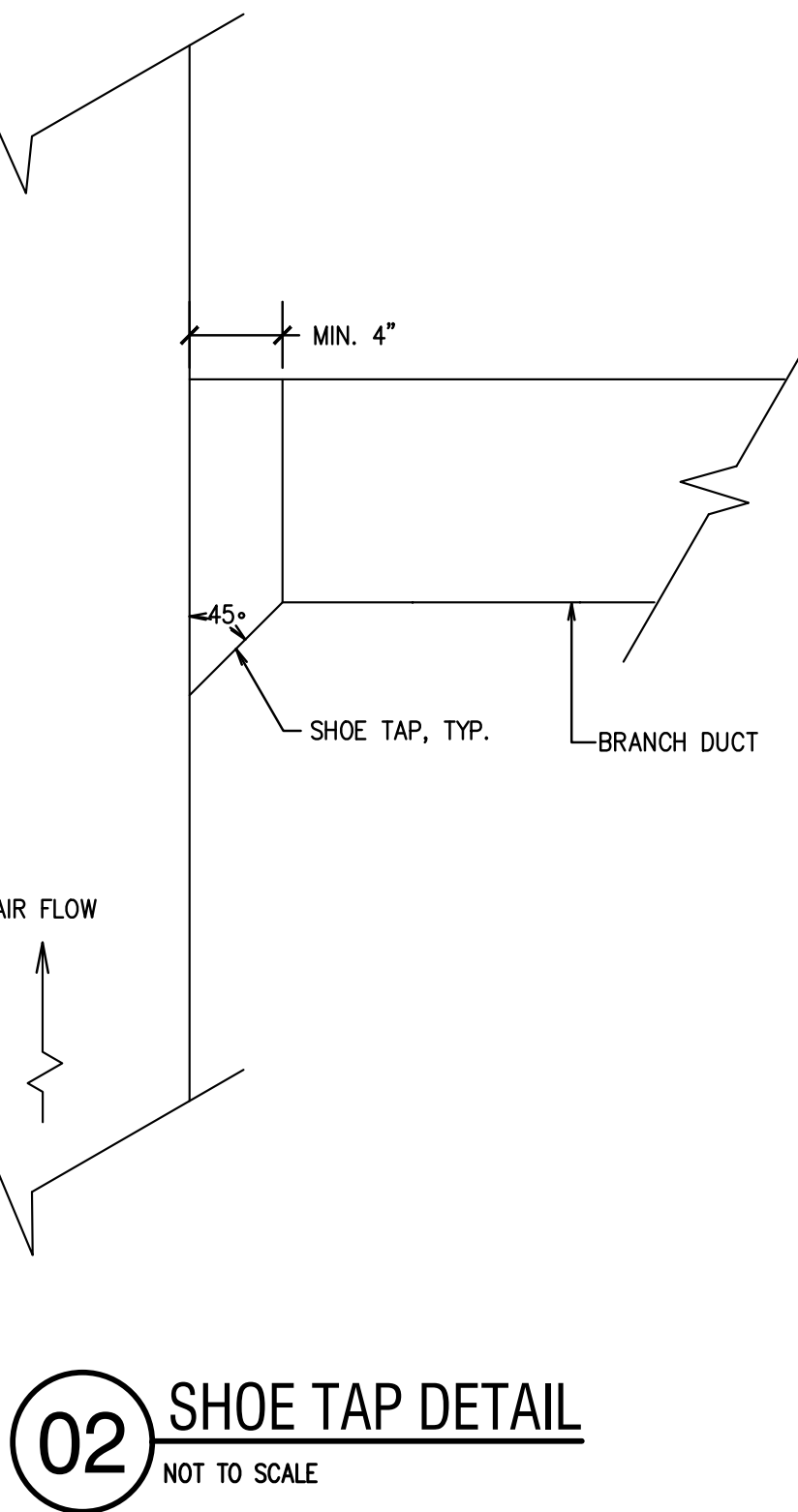
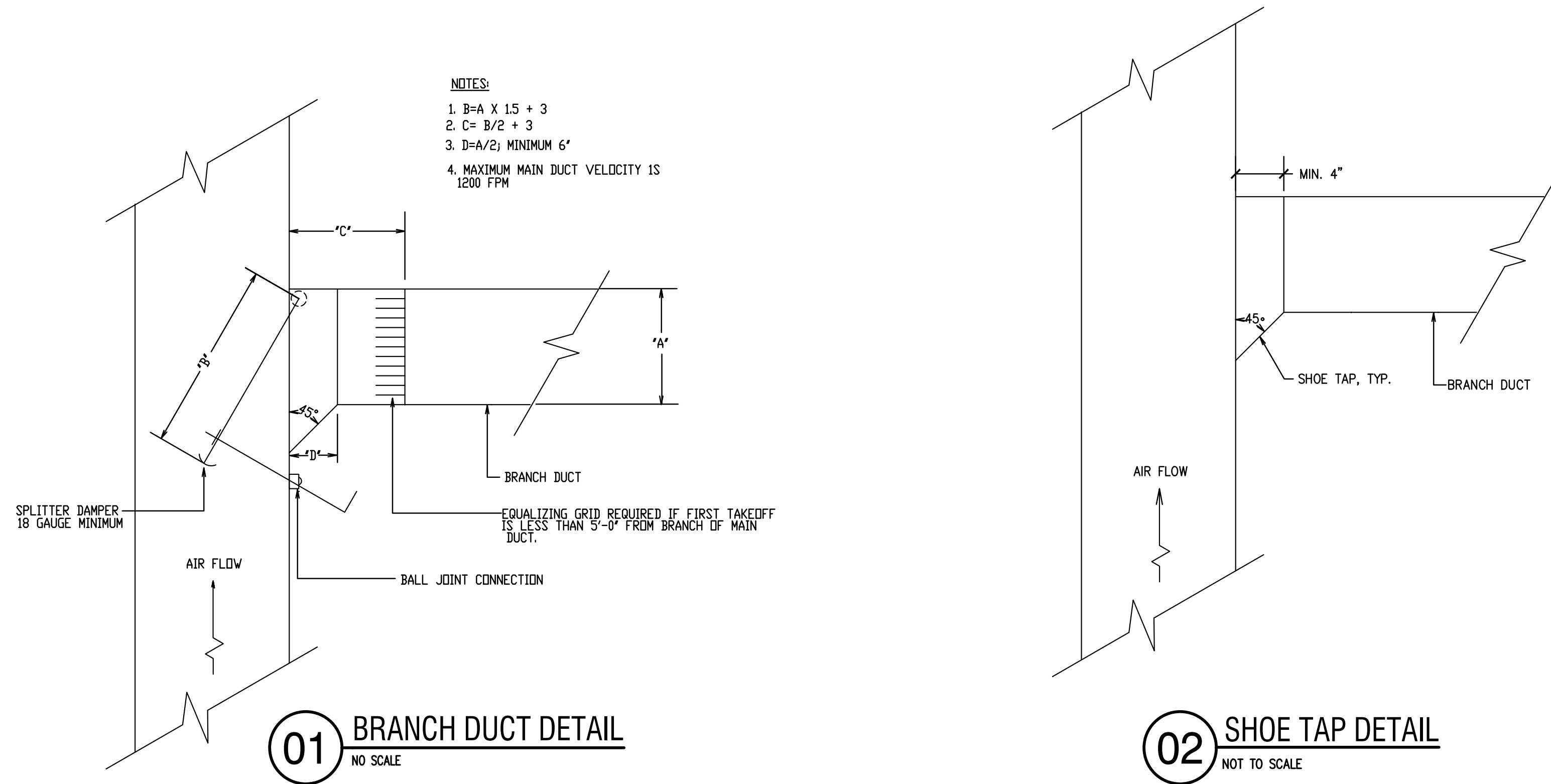
JOB NO.: 22146-00
DRAWN BY: ND
CHECKED BY: HW/ND

SHEET NO.

M1.05



Drawing: 22146 - MIDLOTHIAN I&S BAXTER ES HVAC/DRAINAGE/CAV/SHEDS/WEZ/CLDING Rev. By: BAXTER MANOR Rev. Date: 5/2/2023 3:00 PM; Paper Size: 30" x 30" 30" x 30"



2023.04.28

ISSUES

01 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS

01 ADDENDUM 01 2023.05.05



T.E. BAXTER ES
HVAC REPLACEMENT
MIDLOTHIAN I.S.D.
1050 Park Pl Blvd, Midlothian, TX 76065

DETAILS -
MECHANICAL &
ELECTRICAL

JOB NO.: 22146-00
DRAWN BY: ND
CHECKED BY: HV/NH

SHEET NO.

ME2.02

Drawing: 224146 - MIDLOTHIAN I&S BAXTER ES HVAC/DRAINING/CAV/SEWERS/MS/LD/WE/PH/SH/BAKER MARKS: Plot Date: 5/2/2023 2:35 PM: Plot Scale: 1"=1' Paper Size: 36" X 36" 42

ROOFTOP A/C UNIT SCHEDULE

GENERAL	DESIGNATION	RTU-KITCHEN	RTU-STAGE	RTU-CAFE-NW	RTU-CAFE-SW/ CAFE-SE/ CAFE-NE	RTU-WORKROOM	RTU-ART	RTU-GYM-NE/ GYM-NW GYM-SE GYM-SW	RTU-72D	RTU-75N & 75S	RTU-79	RTU-MUSIC	RTU-LIB-E & W	RTU-LIB-N & S	RTU-84 & 85	RTU-86	RTU-100 /200 /400 /500	RTU-101/102/ 104/105 /106/201 /202/203 /206/207	RTU-103 /204/205	RTU-107	RTU-108	RTU-301/302/ 303/306 /307/308/309	RTU-401/402/ 403/407 /408/409/501 /502/503/507 /508/509	RTU-300B	RTU-304	RTU-305	RTU-B119	RTU-404/405/ 505/506	RTU-406 & 504	RTU-C103	RTU-C106	RTU-A/V	
	SERVING	KITCHEN	STAGE	CAFETORIUM	CAFETORIUM	WORKROOM	ART	GYMNASIUM	GYM OFFICES	CORRIDORS	SPEC. ED.	MUSIC	LIBRARY	LIBRARY	CORRIDOR	CORRIDOR	CORRIDOR	CLASSROOMS/ CONFERENCE RM.	CLASSROOMS	E.S.L.	LAB	PRE-K-/K/INDERG ARTEN/PPCD/CBI	CLASSROOMS	CORRIDOR	KINDERGARTEN & OFFICE	KINDERGARTEN & OFFICE	CORRIDORS	CLASSROOMS	CLASSROOMS	PRINCIPAL	CONF	A/V ROOM	
	MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
	MODEL NO.	YHJ090	YHC067	YHJ090	YHC067	YHC047	YHC047	YHC067	YHC037	YHC047	YHC047	YHC047	YHC067	4YCZ5036	YHC037	YHC047	4YCZ5024	4YCZ5036	YHC047	4YCZ5024	4YCZ5036	YHC047	YHC037	4YCZ5024	YHC047	YHC047	YHC047	YHC047	YHC037	YHC037	YHC067	YHJ090	4YCZ5024
	MAXIMUM WEIGHT, LBS.	1070	1000	1070	1000	980	980	1000	770	980	980	980	980	1000	400	770	1000	770	980	370	400	980	770	370	980	980	980	770	770	1000	1070	370	
NOMINAL CAPACITY	7.5	5	7.5	5	4	4	5	3	4	4	4	4	4	5	3	3	5	3	4	2	3	4	3	2	4	4	4	3	3	5	5	2	
SUPPLY FAN SECTION	SUPPLY AIR, CFM	3000	1750	2700	2000	1600	1400	1750	1100	1600	1400	1400	1400	1750	1200	1200	2000	1200	1400	800	1200	1400	1200	800	1400	1440	1400	1100	1150	2000	2000	800	
	MIN. MIN./MIN. MAX./MAX. OUTSIDE AIR, CFM	500/1000/ 3000	400/1750	300/900/2700	250/600/2000	200/1600	400/1400	250/500/1750	300/1100	140/1600	300/1400	380/1400	170/290/1400	250/500/1750	150/1200	150/1200	600/2000	400/1200	350/1400	150/800	250/1200	440/1400	350/1200	100/800	400/1400	450/1440	450/1400	400/1100	390/1150	350/2000	350/2000	150/800	
	EXTERNAL STATIC PRESSURE, IN. W.G.	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	MAXIMUM FAN RPM	1190	910	1190	980	870	830	910	850	870	830	830	830	910	-	880	980	880	830	-	-	830	880	-	800	840	830	850	860	980	980	-	
	MINIMUM MOTOR HP	3.0	1.0	3.0	1.0	1.0	1.0	1.0	0.75	1.0	1.0	1.0	1.0	1.0	0.75	0.75	1.0	0.75	1.0	0.5	0.5	1.0	0.75	0.5	1.0	1.0	1.0	0.75	0.75	0.75	0.75	0.5	
COOLING SECTION	COIL ENTERING AIR, DB/WB - F°	82.7/66.1	79.6/66.1	81.8/67.1	81.9/66.6	77.0/63.6	82.3/64.9	81.3/65.9	80.9/64.1	75.9/62.1	79.9/65.9	80.7/65.4	80.1/64.8	82.0/65.6	76.6/63.0	77.7/63.7	82.5/65.3	82.5/66.4	81.1/65.9	79.8/65.3	78.6/64.8	83.5/66.3	83.3/66.5	77.0/63.8	82.1/66.9	82.6/67.1	83.6/67.3	83.3/67.4	82.2/67.0	80.5/65.6	80.5/65.6	79.3/63.5	
	COIL L.A.T., D.B./W.B. - F°	58.0/57.0	57.0/56.0	59.0/58.0	59.0/58.0	56.0/55.0	56.0/55.0	57.0/56.0	56.0/55.0	55.0/54.0	57.0/56.0	57.0/56.0	57.0/56.0	57.0/56.0	56.0/55.0	56.0/55.0	57.0/56.0	58.0/57.0	58.0/57.0	57.0/56.0	57.0/56.0	57.0/56.0	58.0/57.0	57.0/56.0	57.0/56.0	58.0/57.0	57.0/56.0	57.0/56.0	57.5/56.5	57.5/56.5	57.0/56.0		
	AMBIENT AIR, DB - F°	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
	TOTAL CAPACITY,MBH	85.73	55.68	88.83	55.62	41.69	42.65	54.42	30.15	37.66	43.53	41.14	38.24	52.61	26.14	31.70	58.05	35.59	43.53	32.78	22.93	45.55	36.45	19.15	42.90	46.10	45.99	38.90	38.80	57.24	57.24	20.34	
	SENSIBLE CAPACITY, MBH	80.66	42.94	74.35	49.83	36.44	39.96	46.14	29.78	36.27	34.84	36.11	35.16	47.61	24.59	28.24	55.39	31.93	36.6	28.21	19.87	40.27	33.04	17.35	33.00	36.10	38.94	29.60	29.90	50.04	50.04	20.26	
	MAX. AIR P.D., IN. W.G.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	MAX. FACE VELOCITY, FPM	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
	STAGES OF COOLING	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	SEER/FEER @ ARI CONDITIONS	16.6/12.1	17.2/13.0	16.6/12.1	17.2/13.0	17.5/13.0	17.5/13.0	17.2/13.0	17.5/13.0	17.5/13.0	17.5/13.0	17.5/13.0	17.5/13.0	17.2/13.0	15.0/11.0	17.5/13.0	17.5/13.0	17.5/13.0	17.5/13.0	17.5/13.0	15.0/11.0	15.0/11.0	17.5/13.0	17.5/13.0	15.0/11.0	17.5 / 13.0	17.5 / 13.0	17.5/13.0	17.5/13.0	17.5/13.0	17.2/13.0	17.2/13.0	15.0/11.0
HEATING SECTION	ENTERING AIR DB - F°	53.3	60.0	55.0	55.0	63.8	55.7	55.7	56.4	65.6	59.3	56.4	59.6	55.7	55.6	63.8	52.9	55.4	57.5	60.6	59.6	54.3	55.4	63.8	48.4	53.4	59.9	51.0	51.9	61.3	55.0	60.6	
	DESIGN LEAVING AIR DB - F°	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	
	TYPE OF HEAT	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	
	HEATING INPUT, MBTUH	105.0/150.0	80.0	105.0/150.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	56.0/70.0	60.0	80	60.0	80.0	48.0/60.0	56.0/70.0	80.0	60.0	48.0/60.0	80.0	60.0	60.0	60.0	80	150	48.0/60.0		
	HEATING OUTPUT, MBTUH	85.0/121.5	64.0	85.0/121.5	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	45.0/56.0	48.0	64	48.0	64.0	38.0/48.0	45.0/56.0	64.0	48.0	38.0/48.0	64.0	64.0	48.0	48.0	64	121.5	38.0/48.0		
	STAGES OF CONTROL	2	1	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	2	1	1	2	1	1	1	1	1	1	2		
ELECT. CHAR.	MINIMUM AFUE EFF. %	81%	80%	81%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	81%	81%	80%	80%	81%	80%	80%	80%	80%	80%	80%	80%	81%	
	VOLTS/PHASE	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	208/1	460/3	460/3	460/3	460/3	208/1	208/1	460/3	460/3	208/1	460/3	460/3	460/3	460/3	460/3	460/3	208/1		
	MIN. CIRCUIT AMPS REQUIRED	21.0	15.0	21.0	15.0	14.0	14.0	15.0	12.0	14.0	14.0	14.0	14.0	15.0	22.9	12.0	15.0	12.0	14.0	19.5	22.9	14.0	12.0	19.5	14.0	14.0	14.0	12.0	12.0	15.0	15.0	19.5	
FILTER SECTION	MAX. OVERCURRENT PROTECTION-AMPS	25.0	20.0	25.0	20.0	20.0	20.0	20.0	15.0	20.0	20.0	20.0	20.0	20.0	35.0	15.0	20.0	15.0	20.0	30.0	35.0	20.0	15.0	30.0	20.0	20.0	20.0	15.0	20.0	20.0	30.0		
	THICKNESS/DEPTH - TYPE	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED		
	MAX. A.P.D. CLEAN, IN. W.G.	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
REMARKS	MANUFACTURER/MODEL NO.	CAMFILL FARR/ AP-THIRTEEN	CAMFILL FARR/ AP-THIRTEEN	CAMFILL FARR/ AP-THIRTEEN	CAMFILL FARR/ AP-THIRTEEN	CAMFILL FARR/ AP-THIRTEEN	CAMFILL FARR/ AP-THIRTEEN	CAMFILL FARR/ AP-THIRTEEN	CAMFILL FARR/ AP-THIRTEEN	CAMFILL FARR/ 																							

FAN SCHEDULE

Drawing: 22146 - MIDLOTHIAN I&S BAXTER ES HVAC/DRAINAGE/LOAD SUMMARY (L2.01.DWG) Plot Date: 5/19/2023 2:02 PM Plot Scale: 1:1 Paper Size: C11x17 36x24 IN

PANELBOARD: P1 - SECTION 1 (EXISTING)											
L-L VOLTAGE: 480 VOLTS L-N VOLTAGE: 277 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 600A MLO MOUNTING: SURFACE AIC RATING: EXISTING	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A				
	1	RTU-104	EXISTING WIRE & CONDUIT	15A/3P			3324 A				
	3						3324 B				
	5						3324 C				
	7	RTU-100	EXISTING WIRE & CONDUIT	20A/3P			4155 A				
	9						4155 B				
	11						4155 C				
	13	RTU-101	EXISTING WIRE & CONDUIT	15A/3P			3324 A				
	15						3324 B				
	17						3324 C				
	19	RTU-102	EXISTING WIRE & CONDUIT	15A/3P			3324 A				
	21						3324 B				
	23						3324 C				
	25	RTU-103	EXISTING WIRE & CONDUIT	20A/3P			3878 A				
	27						3878 B				
	29						3878 C				
								A			
								B			
								C			
								A			
								B			
								C			
								A			
								B			
								C			
								A			
								B			
								C			
											A
											B
				C							
A											
B											
C											
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, #12G, 3/4" C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				13850 A				
			TOTALS PER TYPE (kVA):				149.58 B				
LOADS PER PHASE:			49.9 kVA	180.0 Amps			A				
			49.9 kVA	180.0 Amps			B				
			49.9 kVA	180.0 Amps			C				
PANEL TOTALS			149.6 KVA	180.0 AMPS							

PANELBOARD: P1 - SECTION 2 (EXISTING)													
L-L VOLTAGE: 480 VOLTS L-N VOLTAGE: 277 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 600A MLO MOUNTING: SURFACE AIC RATING: EXISTING	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A						
	31	SPACE											
	33	SPACE											
	35	SPACE											
	37												
	39	EXISTING LOAD						20A/3P					
	41												
	43												
	45	EXISTING LOAD						20A/3P					
	47												
	49												
	51	RTU-106	EXISTING WIRE & CONDUIT	15A/3P			3324						
	53						3324						
	55		EXISTING WIRE & CONDUIT	15A/3P			3324						
	57	RTU-105					3324						
	59						3324						
	32	SPACE											
	34	SPACE											
	36	SPACE											
	38												
	40	EXISTING LOAD							20A/3P				
	42												
	44												
	46	EXISTING LOAD							20A/3P				
	48												
	50												
	52	RTU-206							EXISTING WIRE & CONDUIT	15A/3P			3324
	54												3324
56		EXISTING WIRE & CONDUIT							20A/3P			3878	
58	RTU-205											3878	
60												3878	
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, #12G, 3/4" C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS									SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				
			TOTALS PER TYPE (kVA):				41.55						
LOADS PER PHASE:			13.9 kVA	50.0 Amps									
			13.9 kVA	50.0 Amps									
PANEL TOTALS			41.6 KVA	50.0 AMPS									

PANELBOARD: L1 SECT 1 (EXISTING)							
L-L VOLTAGE: 208 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 120 VOLTS	3	SPACE	2#12,1#12G-3/4"C.	20A/1P		1440	
CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 400A MCB MOUNTING: SURFACE AIC RATING: 10,000 AMPS	7	SPACE	EXISTING	20A/1P 20A/1P 20A/1P			1056
	9	EF-RR-100E & EF-RR-100F					
	11	EXISTING EWC					
	13	EXISTING EWC					
	15	SPACE					
	17	EXISTING RECEPTACLES					
	19	EXISTING RECEPTACLES					
	21	EXISTING RECEPTACLES					
	23	EXISTING RECEPTACLES					
	25	EXISTING RECEPTACLES					
27	EXISTING RECEPTACLES	EXISTING	20A/1P 20A/				





PER NEC 408.4 (A), IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY UNDER THIS CONTRACT TO IDENTIFY ALL BRANCH CIRCUITS, BOTH EXISTING AND NEW, FED FROM EACH PANEL OR DISTRIBUTION BOARD INDICATED ON THESE PLANS. THIS CONTRACTOR SHALL ALSO PROVIDE AN UPDATED, TYPEWRITTEN SCHEDULE WITHIN THE PANEL DOOR OR ON THE DISTRIBUTION BOARD AS DESCRIBED & REQUIRED BY THE CODE.

PANELBOARD: P2 - SECTION 1 (EXISTING)									
L-L VOLTAGE: 480 VOLTS L-N VOLTAGE: 277 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 600A MLO MOUNTING: SURFACE AIC RATING: EXISTING	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A		
	1	RTU-509	EXISTING WIRE & CONDUIT	15A/3P			3324		
	3						A		
	5						B		
	7	RTU-500	EXISTING WIRE & CONDUIT	20A/3P				4155	
	9							A	
	11							B	
	13	RTU-508	EXISTING WIRE & CONDUIT	15A/3P				4155	
	15							A	
	17							B	
	19	RTU-507	EXISTING WIRE & CONDUIT	15A/3P				3324	
	21							A	
	23							B	
	25	RTU-503	EXISTING WIRE & CONDUIT	15A/3P				3324	
	27							A	
	29							B	
		2	RTU-502	EXISTING WIRE & CONDUIT	15A/3P				3324
		4							A
		6							B
		8	RTU-501	EXISTING WIRE & CONDUIT	15A/3P				3324
		10							A
		12							B
		14	RTU-409	EXISTING WIRE & CONDUIT	15A/3P				3324
		16							A
		18							B
		20	RTU-400	EXISTING WIRE & CONDUIT	20A/3P				4155
		22							A
		24							B
		26	RTU-401	EXISTING WIRE & CONDUIT	15A/3P				4155
		28							A
	30	B							
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, #12G, 3/4" C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				13296		
			TOTALS PER TYPE (KVA):				144.59		
			LOADS PER PHASE:		48.2 KVA	174.0 Amps			
					48.2 KVA	174.0 Amps			
PANEL TOTALS			144.6 KVA	174.0 AMPS					

Drawing: V22146 - MIDLOTHIAN ISF BAXTER ES HVAC/DRAINAGES/LOADS/SCHEMATIC/02.02.DWG, Plot Date: 5/17/2023 2:32 PM, Plot Scale: 1:1, Paper Size: CDE 30" X36" IN

PANELBOARD: P3 (EXISTING)							
L-L VOLTAGE: 480 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 277 VOLTS	3	EXISTING LOAD		15A/3P			A B C
CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND	5						A B C
MAINS: 200A MLO	7	RTU-MUSIC	EXISTING WIRE & CONDUIT	20A/3P			A B C
MOUNTING: SURFACE	11						A B C
AIC RATING: EXISTING	13	RTU-LIB-S	EXISTING WIRE & CONDUIT	20A/3P			A B C
	15						A B C
	17						A B C
	19	RTU-LIB-W	EXISTING WIRE & CONDUIT	20A/3P			A B C
	21						A B C
	23						A B C
	25	RTU-207	EXISTING WIRE & CONDUIT	15A/3P			A B C
	27						A B C
	29						A B C
	31	RTU-C103	EXISTING WIRE & CONDUIT	20A/3P			A B C
	33						A B C
	35						A B C
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, 1#12G, 3/4"C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				A B C
			TOTALS PER TYPE (KVA):			119.66	A B C
			LOADS PER PHASE:	39.9 KVA	144.0 Amps		A
				39.9 KVA	144.0 Amps		B
				39.9 KVA	144.0 Amps		C
			PANEL TOTALS		119.7 KVA	144.0 AMPS	
							A B C
							A B C
							A B C
							A B C

PANELBOARD: L3 SECT 1 (EXISTING)							
L-L VOLTAGE: 208 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 120 VOLTS	1	RTU-107	EXISTING WIRE & CONDUIT	30A/2P			A 2028 B
CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND	3	EXISTING RECEPTACLES		20A/1P			A B C
MAINS: 400A MCB	5	RTU-85	EXISTING WIRE & CONDUIT	35A/2P			A 2381 B
MOUNTING: #VALUE!	7	EXISTING KILN		90A/2P			A C
AIC RATING: EXISTING	9	EXISTING LOAD		20A/2P			A B C
	11						A B C
	13	EXISTING LOAD		20A/1P			A B C
	15	EXISTING LOAD		20A/1P			A B C
	17	EXISTING LOAD		20A/2P			A B C
	19	EXISTING LOAD		20A/1P			A B C
	21	ROOF RECEPTACLES	2#12, 1#12G-3/4"C.	20A/1P		1080	A B C
	23	EXISTING LOAD		20A/2P			A B C
	25	ROOF RECEPTACLES	2#12, 1#12G-3/4"C.	20A/1P		1440	A B C
	27	EXISTING RECEPTACLES		20A/1P			A B C
	29						A B C
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, 1#12G, 3/4"C. UNLESS OTHERWISE NOTED. 2. ALL ONE POLE CIRCUITS SHALL HAVE DEDICATED NEUTRAL WIRES.			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY			1800	A 1584 B
			TOTALS PER TYPE (KVA):			900	A 1056 B
			LOADS PER PHASE:	11.4 KVA	95.2 Amps		A
				11.6 KVA	96.8 Amps		B
				2.5 KVA	20.7 Amps		C
			PANEL TOTALS		25.5 KVA	70.9 AMPS	
							A B C
							A B C
							A B C
							A B C

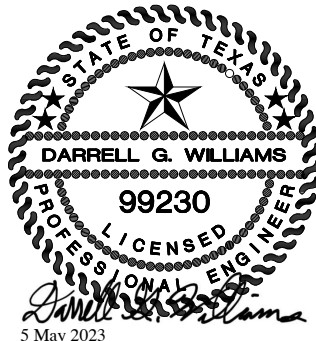
PANELBOARD: L3 SECT 2 (EXISTING)								
L-L VOLTAGE: 208 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	
L-N VOLTAGE: 120 VOLTS	31	EXISTING LOAD		60A/3P			A B C	
CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND	33	EXISTING RECEPTS & EF-RR-C107B		20A/1P		900	528	A B C
MAINS: 400A MCB	35	EXISTING RECEPTACLES		20A/1P				A B C
	37	EXISTING RECEPTACLES		20A/1P				A B C
	39	EXISTING RECEPTACLES		20A/1P				A B C
MOUNTING: #VALUE!	41	EXISTING RECEPTACLES		20A/1P				A B C
	43	EXISTING RECEPTACLES		20A/1P				A B C
AIC RATING: EXISTING	45	EXISTING RECEPTACLES		20A/1P				A B C
GEN. NOTES	47	EXISTING RECEPTACLES		20A/1P				A B C
	49	EXISTING RECEPTACLES		20A/1P				A B C
	51	EXISTING RECEPTACLES	20A/1P				A B C	
	53	EXISTING LOAD	20A/2P				A B C	
	55	EXISTING RECEPTACLES	20A/1P				A B C	
	57	EXISTING RECEPTACLES	20A/1P				A B C	
	59	EXISTING RECEPTACLES	20A/1P				A B C	
	61	EXISTING RECEPTACLES	20A/1P				A B C	
	63	EXISTING RECEPTACLES	20A/1P				A B C	
	65	EXISTING RECEPTACLES	20A/1P				A B C	
	67	EF-ART		20A/1P			528	A B C
	69	EXISTING LIGHTS		20A/1P				A B C
	71	EXISTING EXIT SIGNS		20A/1P				A B C
	73	EXISTING LOAD		60A/3P			A B C	
	75	EXISTING RECEPTS & EF-RR-97B		20A/1P		900	528	A B C
	77	EXISTING RECEPTACLES		20A/1P				A B C
	79	EXISTING RECEPTS & EF-RR-87C		20A/1P		900	528	A B C
	81	EXISTING RECEPTACLES		20A/1P				A B C
	83	EXISTING RECEPTACLES		20A/1P				A B C
	85	EXISTING RECEPTACLES		20A/1P				A B C
	87	EXISTING RECEPTACLES		20A/1P				A B C
	89	EXISTING RECEPTACLES		20A/1P				A B C
	91	EXISTING RECEPTACLES		20A/1P				A B C
	93	EF-LOUNGE-68C & EF-RR-68B		20A/1P			1056	A B C
	95	EF-CUST-88 & EF-DARK-90B		20A/1P			1056	A B C
	97	EXISTING LIGHTS		20A/1P				A B C
	99	EXISTING RECEPTACLES		20A/1P				A B C
	101	EXISTING RECEPTACLES		20A/1P				A B C
				SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				A B C
TOTALS PER TYPE (kVA):						2.70	4.22	A B C
LOADS PER PHASE:				3.4 kVA		28.2 Amps		A B C
				1.1 kVA		8.8 Amps		A B C
				2.5 kVA		20.7 Amps		A B C
PANEL TOTALS				6.9 kVA		19.2 AMPS		A B C

PANELBOARD: K SECT 1 (EXISTING)							
L-L VOLTAGE: 208 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 120 VOLTS	1	EXISTING LOAD		100A/2P			
	3						
CONNECTION TYPE:	5	EXISTING LOAD		20A/1P			
	7						
3 PHASE, 4 WIRE PLUS GND	9	EXISTING LOAD		15A/3P			
	11						
MAINS: 600A MLO	13			-			
	15	KEF-KITCHEN	EXISTING WIRE & CONDUIT	15A/3P			828
MOUNTING: SURFACE	17			-			828
	19						
AIC RATING: EXISTING	21	EXISTING LOAD		100A/3P			
	23						
	25			-			
	27	EXISTING LOAD		40A/3P			
	29			-			
	31	EXISTING LOAD		20A/1P			
	33	EXISTING LOAD		20A/1P			
	35	EXISTING LOAD		20A/1P			
	37						
	39	EXISTING LOAD		60A/3P			
	41						
	43						
	45	EXISTING LOAD		90A/3P			
	47						
	2	EXISTING LOAD		20A/1P			
	4	EXISTING LOAD		25A/2P			
	6						
	8						
	10	EXISTING LOAD		40A/3P			
	12						
	14	EXISTING LOAD		20A/1P			
	16	EXISTING LOAD		60A/2P			
	18						
	20						
	22	EXISTING LOAD		40A/3P			
	24						
	26	EXISTING LOAD		20A/1P			
	28	EXISTING LOAD		20A/1P			
	30	EXISTING LOAD		20A/1P			
	32						
	34	EXISTING LOAD		20A/3P			
	36						
	38						
	40	EXISTING LOAD		15A/3P			
	42						
	44	EXISTING LOAD		20A/1P			
	46	EXISTING LOAD		80A/2P			
	48						
GENERAL NOTES:			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY			2232	
1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, #12G, 3/4" C UNLESS OTHERWISE NOTED.						360 528	
2. PROVIDE FEED THRU LUGS			TOTALS PER TYPE (kVA):			0.36 5.24	
			LOADS PER PHASE:				
			3.1 kVA			25.5 Amps	
			0.8 kVA			6.9 Amps	
			1.7 kVA			14.3 Amps	
			PANEL TOTALS			5.6 KVA 15.6 AMPS	

PANELBOARD: K SECT 2 (EXISTING)							
L-L VOLTAGE:	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
208 VOLTS	49	EXISTING LOAD		50A/2P			
L-N VOLTAGE:	51						
120 VOLTS	53	EXISTING LOAD		20A/1P			
CONNECTION	55	EXISTING LOAD		20A/1P			
TYPE:	57	EXISTING LOAD		20A/1P			
3 PHASE,	59	EXISTING LOAD		20A/1P			
4 WIRE	61	EXISTING LOAD		20A/1P			
PLUS GND	63	EXISTING LOAD		20A/1P			
MAINS:	65	EXISTING LOAD		20A/1P			
600A MLO	67	EF-RR-64A & EF-RR-65A	EXISTING WIRE & CONDUIT	20A/1P			1056
MOUNTING:	69	EXISTING LOAD		20A/1P			
SURFACE	71	EXISTING LOAD		20A/2P			
AIC RATING:	73	EXISTING LOAD		20A/1P			
EXISTING	75	EXISTING LOAD		40A/1P			
GEN. NOTES	77	EXISTING LOAD		20A/1P			
	79	EXISTING LOAD		50A/2P			
	81						
	83	EXISTING LOAD		25A/2P			
	85						
	87						
	89	EXISTING LOAD		30A/3P			
	91						
	50	SF-KIT	EXISTING WIRE & CONDUIT	20A/1P			1176
	52	EXISTING LOAD		20A/1P			
	54	EXISTING LOAD		20A/1P			
	56	EXISTING LOAD		20A/1P			
	58	EXISTING LOAD		20A/1P			
	60	EXISTING LOAD		20A/1P			
	62	EXISTING LOAD		20A/1P			
	64	EXISTING LOAD		20A/1P			
	66	EXISTING LOAD		20A/1P			
	68	EXISTING LOAD		20A/1P			
	70	EXISTING LOAD		20A/1P			
	72	EXISTING RECEPTS & EF	EXISTING WIRE & CONDUIT	20A/1P		360	528
	74	EXISTING LOAD		20A/1P			
	76	EXISTING LOAD		20A/1P			
	78	EXISTING LOAD		20A/1P			
	80	EXISTING LOAD		20A/1P			
	82	EXISTING LOAD		20A/1P			
	84	EXISTING LOAD		20A/2P			
	86						
	88						
	90						
	92	-	-	-	-		
GENERAL NOTES:			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				
1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, #12G, 3/4" C UNLESS OTHERWISE NOTED.			TOTALS PER TYPE (kVA):		0.36	2.76	
			LOADS PER PHASE:		2.2 kVA	18.6 Amps	
					0.9 kVA	7.4 Amps	
			PANEL TOTALS		3.1 kVA	8.7 AMPS	



RWB
Consulting Engineers
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TX Firm # F-2176
(972) 788-4222
Project 22146.00



2023.04.28

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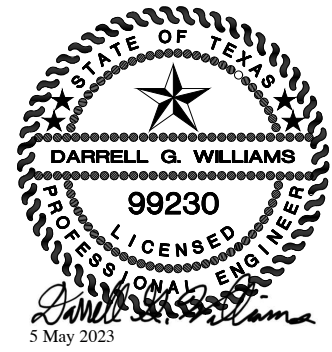
T.E. BAXTER ES
HVAC REPLACEMENT
MIDLOTHIAN I.S.D.
1050 Park Pl Blvd, Midlothian, TX 76065

PANEL SCHEDULES

JOB NO.: 22146-00

SHEET NO

E2.03



ISSUES		
01	ISSUE FOR CONSTRUCTION	2023.04.28

[illegible]

REVISIONS

01	ADDENDUM 01	2023.05.05

[illegible]

T.E. BAXTER ES
HVAC REPLACEMENT
MIDLOTHIAN I.S.D.
1050 Park Pl Blvd, Midlothian, TX 76065

PANEL SCHEDULES

JOB NO.: 22146-00
DRAWN BY: PT

SHEET NO.

E2.04

PANELBOARD: P6 (EXISTING)							
L-L VOLTAGE: 480 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 277 VOLTS	1	EXISTING	EXISTING WIRE & CONDUIT	70A/3P			
CONNECTION TYPE:	3	TRANSFORMER TLP					
3 PHASE, 4 WIRE PLUS GND	5						
MAINS: 200A MLO	7		EXISTING WIRE & CONDUIT	15A/3P			3324
MOUNTING: SURFACE	9	RTU-405					3324
AIC RATING: EXISTING	11		EXISTING WIRE & CONDUIT	15A/3P			3878
	13	RTU-B119					3878
	15		EXISTING WIRE & CONDUIT	15A/3P			3324
	17						3878
	19	RTU-506					3324
	21		EXISTING WIRE & CONDUIT	15A/3P			3324
	23						3324
	25	EXISTING EUH-1					
	27		EXISTING WIRE & CONDUIT	15A/3P			
	29						
	31	SPACE					
	33	SPACE					
	35	SPACE					
	37	SPACE					
	39	SPACE					
	41	SPACE					
	2		EXISTING WIRE & CONDUIT	15A/3P			3324
	4	RTU-404					3324
	6						3324
	8		EXISTING WIRE & CONDUIT	15A/3P			3324
	10	RTU-406					3324
	12						3324
	14		EXISTING WIRE & CONDUIT	15A/3P			3324
	16	RTU-504					3324
	18						3324
	20		EXISTING WIRE & CONDUIT	15A/3P			3324
	22	RTU-505					3324
	24						3324
	26		EXISTING WIRE & CONDUIT	15A/3P			
	28	EXISTING WH-1					
	30						
	32	SPACE					
	34	SPACE					
	36	SPACE					
	38	SPACE					
	40	SPACE					
	42	SPACE					
GENERAL NOTES:			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				
1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, #12G, 3/4" C UNLESS OTHERWISE NOTED.							
2. PROVIDE FEED THRU LUGS							
			TOTALS PER TYPE (KVA):				71.47
LOADS PER PHASE:			23.8 KVA	86.0 Amps			
			23.8 KVA	86.0 Amps			
PANEL TOTALS			71.5 KVA	86.0 AMPS			

PER NEC 408.4 (A), IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY UNDER THIS CONTRACT TO IDENTIFY ALL BRANCH CIRCUITS, BOTH EXISTING AND NEW, FED FROM EACH PANEL OR DISTRIBUTION BOARD INDICATED ON THESE PLANS. THIS CONTRACTOR SHALL ALSO PROVIDE AN UPDATED, TYPEWRITTEN SCHEDULE WITHIN THE PANEL DOOR OR ON THE DISTRIBUTION BOARD AS DESCRIBED & REQUIRED BY THE CODE.

PANELBOARD: L5 (EXISTING)									
L-L VOLTAGE:	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A		
208 VOLTS	1	RTU-300B	2#10,1#10G-3/4"C.	30A/2P			2184		A
L-N VOLTAGE:	3						2184		B
120 VOLTS	7	ROOT RECEPTACLES	2#12,1#12G-3/4"C.	20A/1P		1080			C
CONNECTION TYPE:	9	EXISTING LOAD		20A/1P					A
3 PHASE,	11			70A/2P					B
4 WIRE	13	EXISTING LOAD		70A/2P					A
PLUS GND	15								B
MAINS:	17	EXISTING RECEPTACLES		20A/1P					C
400A MCB	19	EXISTING RECEPTACLES		20A/1P					C
MOUNTING:	21	EXISTING RECEPTACLES		20A/1P					B
SURFACE	23	EXISTING RECEPTACLES		20A/1P					C
AIC RATING:	25	EXISTING RECEPTACLES		20A/1P					A
10,000 AMPS	27	EXISTING RECEPTS & EF-RR-309B	EXISTING WIRE & CONDUIT	20A/1P		900	528		B
	29	EXISTING RECEPTACLES		20A/1P					C
	31	EXISTING RECEPTACLES		20A/1P					A
	33	EXISTING RECEPTS & EF-RR-308B	EXISTING WIRE & CONDUIT	20A/1P		900	528		B
	35	EXISTING RECEPTS & EF-RR-307B	EXISTING WIRE & CONDUIT	20A/1P		900	528		C
	37	EXISTING RECEPTS & EF-RR-306B	EXISTING WIRE & CONDUIT	20A/1P		900	528		A
	39	EF-RR-72E & EF-RR-72G	EXISTING WIRE & CONDUIT	20A/1P			1056		B
	41	EXISTING LOAD		20A/1P					C
	2	EXISTING LOAD		40A/2P					A
	4								B
	6	EXISTING LOAD		70A/2P					C
	8								A
	10	EXISTING LOAD		70A/2P					B
	12								C
	14	EXISTING LOAD		20A/1P					A
	16	EXISTING RECEPTS & EF-RR-79C	EXISTING WIRE & CONDUIT	20A/1P		900	528		B
	18	EXISTING LOAD		20A/1P					C
	20	EXISTING RECEPTACLES		20A/1P					A
	22	EXISTING RECEPTACLES		20A/1P					B
	24	EXISTING RECEPTACLES		20A/1P					C
	26	EXISTING RECEPTACLES		20A/1P					A
	28	EXISTING LOAD		50A/2P					B
	30	EXISTING RECEPTS & EF-RR-301C	EXISTING WIRE & CONDUIT	20A/1P		900	528		C
	32	EXISTING RECEPTS & EF-RR-302B	EXISTING WIRE & CONDUIT	20A/1P		900	528		A
	34	EXISTING RECEPTACLES		20A/1P					B
	36	EXISTING RECEPTS & EF-RR-303B	EXISTING WIRE & CONDUIT	20A/1P		900	528		C
	38	EF-RR-72B & EF-RR-72C	EXISTING WIRE & CONDUIT	20A/1P			1056		A
	40	EXISTING LIGHTS GYM		20A/1P					B
	42	EXISTING EXIT LIGHTS		20A/1P					C
GENERAL NOTES:			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY						A
1. ALL WIRE & CONDUIT SIZES SHALL BE									B
2#12, #12G, 3/4"C UNLESS OTHERWISE NOTED.									C
2. PROVIDE FEED THRU LUGS									A
			TOTALS PER TYPE (kVA):				8.28	10.70	B
			LOADS PER PHASE:				6.1 kVA	50.8 Amps	A
							7.5 kVA	62.7 Amps	B
							5.4 kVA	44.7 Amps	C
			PANEL TOTALS				19.0 kVA	52.7 AMPS	