

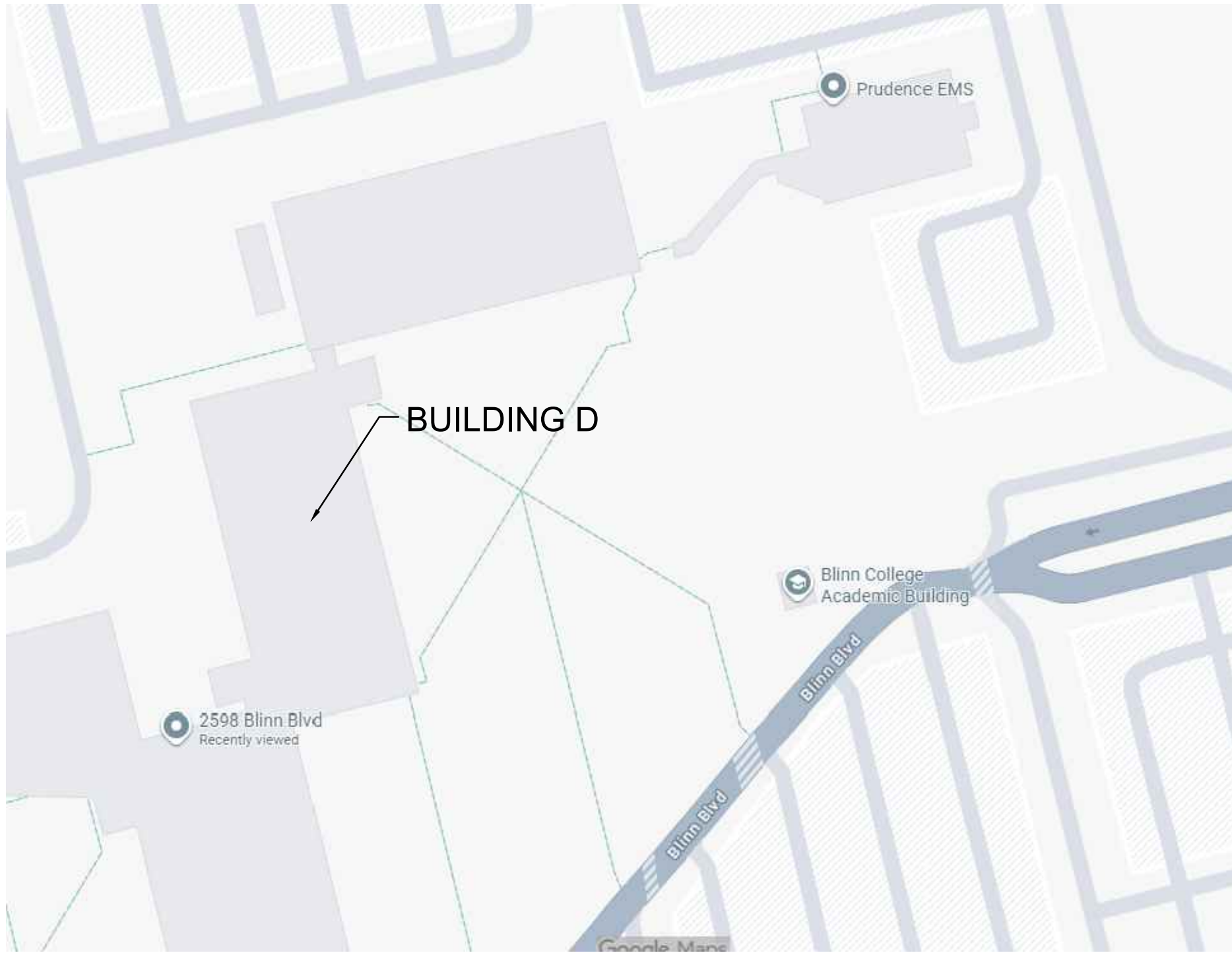
Blinn Building D MAU Replacement

90% CD

2423 Blinn Blvd, Texas 77802

December 05, 2025

Project Number 250697



PROJECT LOCATION MAP

- Mechanical:
- M0.0 Mechanical Symbols and Abbreviations
  - MD1.1 Mechanical Demolition Plan - First Floor
  - M1.1 Mechanical New Work Plan - First Floor
  - M1.2 Mechanical New Work Plan - Second Floor
  - M2.1 Mechanical Enlarged Plan
  - M3.1 Mechanical Schedules and Details
  - M4.1 Mechanical Controls

- Electrical:
- E0.0 Electrical Symbols and Abbreviations
  - E2.1 Electrical Power Plan

MECHANICAL, PLUMBING AND ELECTRICAL ENGINEERS  
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ZAC G. STEVENSON  
P.E. REG. NO. 141032  
12/05/2025

BLINN BUILDING D MAU  
REPLACEMENT  
2598 BLINN BLVD  
BRYAN, TEXAS 77802

Drawn  
Checked  
Date 5 DECEMBER 2025  
CZE Project No. 250697  
Revisions

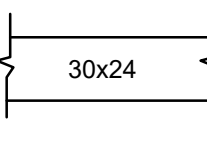


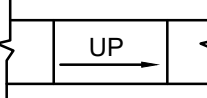
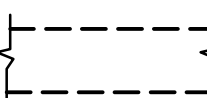


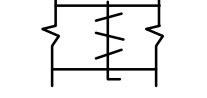
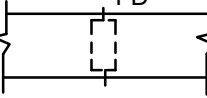
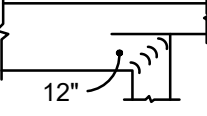
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TITLE SHEET

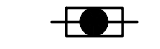


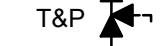

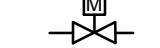


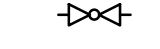


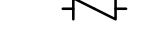


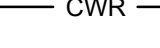
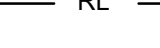


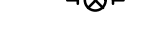
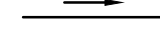
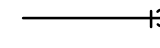
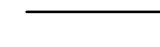
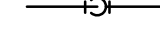
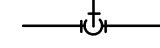
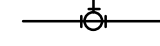
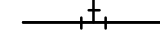
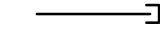
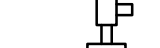
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MECHANICAL/REFRIGERATION SYMBOLS AND ABBREVIATIONS

NOTE: SELDOM ARE ALL SYMBOLS AND ABBREVIATIONS USED IN THE DRAWINGS; REFERENCE ONLY THOSE THAT ARE APPLICABLE.

SYMBOL	DESCRIPTION
	DUCT SIZE FIRST FIGURE IS SIDE SHOWN
	DUCT SECTION, POSITIVE PRESSURE, FIRST FIGURE IS TOP
	DUCT SECTION, NEGATIVE PRESSURE, FIRST FIGURE IS TOP
	CHANGE OF ELEVATION - UP OR DOWN
	DEMOLITION DUCTWORK
	EXISTING DUCT TO REMAIN
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	FIRE DAMPER (W/ ACCESS DOOR) SD=SMOKE DAMPER; SFD=SMOKE/FIRE DAMPER
	

SYMBOL	DESCRIPTION
	CALIBRATED BALANCING VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	THREE WAY VALVE (AUTOMATIC)
	TWO WAY VALVE (AUTOMATIC)
	FLOW SWITCH
	STRAINER, WYE WITH DRAIN VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	HOSE VALVE (UTILITY PURPOSES)
	SWING CHECK VALVE
	NEW TO EXISTING CONNECTION
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	REFRIGERANT LIQUID LINE
	REFRIGERANT SUCTION LINE
	NON-SLAM CHECK VALVE
	BALL VALVE
	FLOW - IN DIRECTION OF ARROW
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	RISE OR DROP
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	CAP ON END OF PIPE
	NATURAL GAS REGULATOR

ABBREVIATION	DESCRIPTION
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AV	AIR VENT
BF	BELOW FLOOR
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONN/CONX.	CONNECTION
CONT	CONTINUATION
CL	CENTERLINE
CW	CHILLED WATER
DB	DRYBULB
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
ELECT	ELECTRICAL
ELEV	ELEVATION
ENT	ENTERING
EXIST	EXISTING
F	FAHRENHEIT
FD	FLOOR DRAIN OR FIRE DAMPER
FT	FEET
GAL	GALLON(S)
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HTR	HEATER
H2O	WATER
HW	HOT WATER
HZ	HERTZ
INV	INVERT
IN	INCHES
LAT	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MOBD	MOTORIZED OPPOSED BLADE DAMPER
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OH	OVERHEAD
PD	PRESSURE DROP
PLBG	PLUMBING
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH, GAUGE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
REFRIG.	REFRIGERATION
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SHT	SHEET
SP	STATIC PRESSURE
SPEC	SPECIFICATION
T/A	THROW AWAY (FILTERS)
TEMP	TEMPERATURE
TSH	TOTAL SENSIBLE HEAT
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORIES
V	VENT
VTR	VENT THRU ROOF
WB	WET BULB
W/	WITH
W/O	WITHOUT

COMMISSIONING PLAN

A THIRD PARTY WILL BE RETAINED FOR PRE-COMMISSIONING AND COMMISSIONING SERVICES.

SYSTEM TO BE COMMISSIONED ARE HVAC AIR SYSTEMS (WHERE APPLICABLE) AND BUILDING AUTOMATION SYSTEMS.

REFER TO SPECIFICATION SECTIONS 019100 AND 230800 FOR ADDITIONAL REQUIREMENTS.

CLEARY ZIMMERMANN ENGINEERS  
P.E. REG. NO. 141032  
12/05/2025

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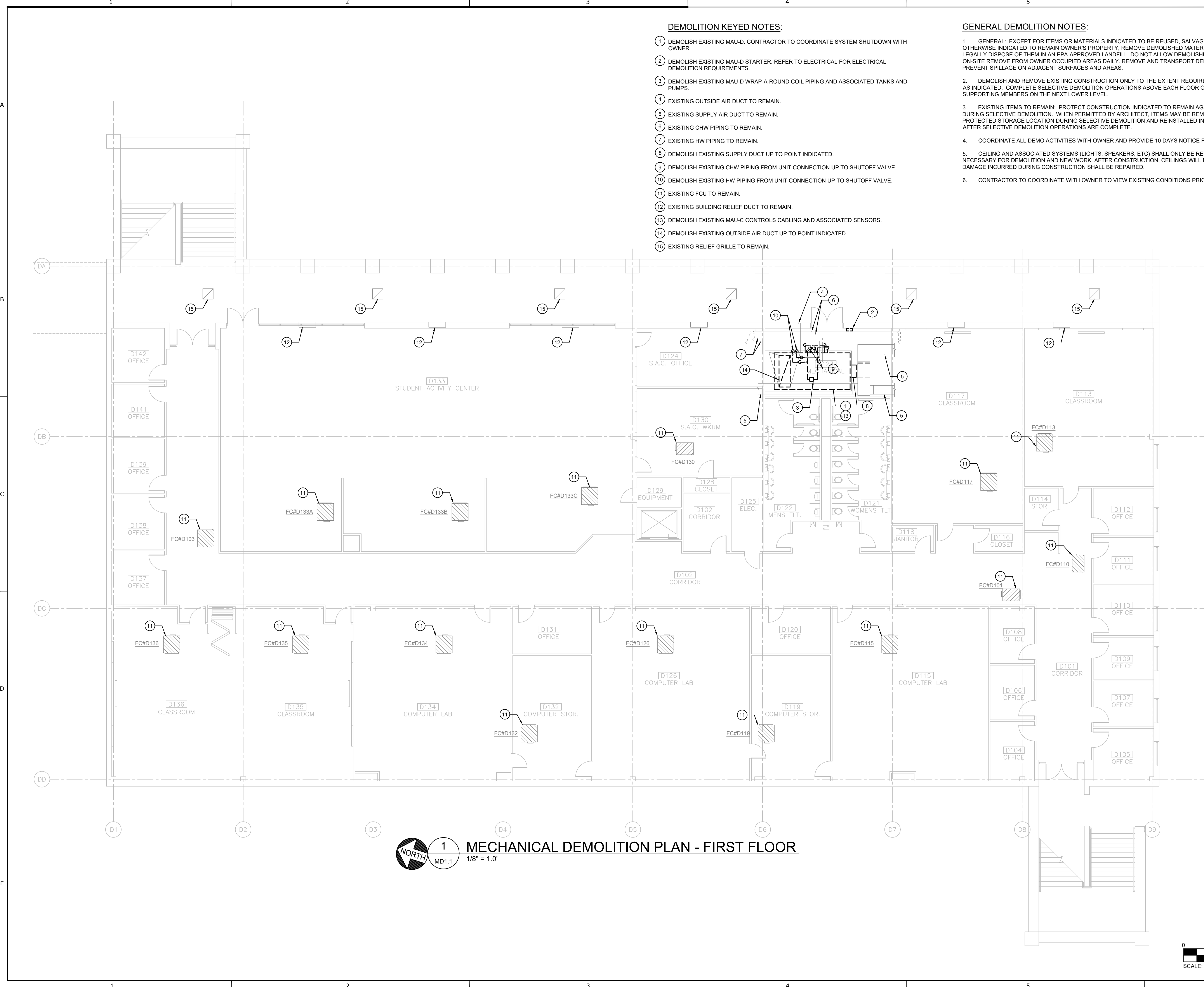
BLINN BUILDING D MAU REPLACEMENT  
2423 BLINN BLVD  
BRYAN, TEXAS 77802

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SHEET TITLE  
MECHANICAL SYMBOLS AND ABBREVIATIONS  
SHEET NO.

M0.0





**DEMOLITION KEYED NOTES:**

- 1 DEMOLISH EXISTING MAU-D. CONTRACTOR TO COORDINATE SYSTEM SHUTDOWN WITH OWNER.
- 2 DEMOLISH EXISTING MAU-D STARTER. REFER TO ELECTRICAL FOR ELECTRICAL DEMOLITION REQUIREMENTS.
- 3 DEMOLISH EXISTING MAU-D WRAP-A-ROUND COIL PIPING AND ASSOCIATED TANKS AND PUMPS.
- 4 EXISTING OUTSIDE AIR DUCT TO REMAIN.
- 5 EXISTING SUPPLY AIR DUCT TO REMAIN.
- 6 EXISTING CHW PIPING TO REMAIN.
- 7 EXISTING HW PIPING TO REMAIN.
- 8 DEMOLISH EXISTING SUPPLY DUCT UP TO POINT INDICATED.
- 9 DEMOLISH EXISTING CHW PIPING FROM UNIT CONNECTION UP TO SHUTOFF VALVE.
- 10 DEMOLISH EXISTING HW PIPING FROM UNIT CONNECTION UP TO SHUTOFF VALVE.
- 11 EXISTING FCU TO REMAIN.
- 12 EXISTING BUILDING RELIEF DUCT TO REMAIN.
- 13 DEMOLISH EXISTING MAU-C CONTROLS CABLING AND ASSOCIATED SENSORS.
- 14 DEMOLISH EXISTING OUTSIDE AIR DUCT UP TO POINT INDICATED.
- 15 EXISTING RELIEF GRILLE TO REMAIN.

**GENERAL DEMOLITION NOTES:**

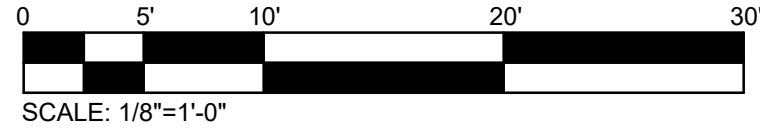
1. GENERAL: EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE REMOVE FROM OWNER OCCUPIED AREAS DAILY. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
2. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. COMPLETE SELECTIVE DEMOLITION OPERATIONS ABOVE EACH FLOOR OR TIER BEFORE DISTURBING SUPPORTING MEMBERS ON THE NEXT LOWER LEVEL.
3. EXISTING ITEMS TO REMAIN: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION AND REINSTALLED IN THEIR ORIGINAL LOCATIONS AFTER SELECTIVE DEMOLITION OPERATIONS ARE COMPLETE.
4. COORDINATE ALL DEMO ACTIVITIES WITH OWNER AND PROVIDE 10 DAYS NOTICE FOR ANY POWER OUTAGES.
5. CEILING AND ASSOCIATED SYSTEMS (LIGHTS, SPEAKERS, ETC) SHALL ONLY BE REMOVED TO THE EXTENT NECESSARY FOR DEMOLITION AND NEW WORK. AFTER CONSTRUCTION, CEILINGS WILL BE REINSTALLED, AND ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE REPAIRED.
6. CONTRACTOR TO COORDINATE WITH OWNER TO VIEW EXISTING CONDITIONS PRIOR TO BIDDING PROJECT.



1  
MD1.1

**MECHANICAL DEMOLITION PLAN - FIRST FLOOR**

1/8" = 1'-0"



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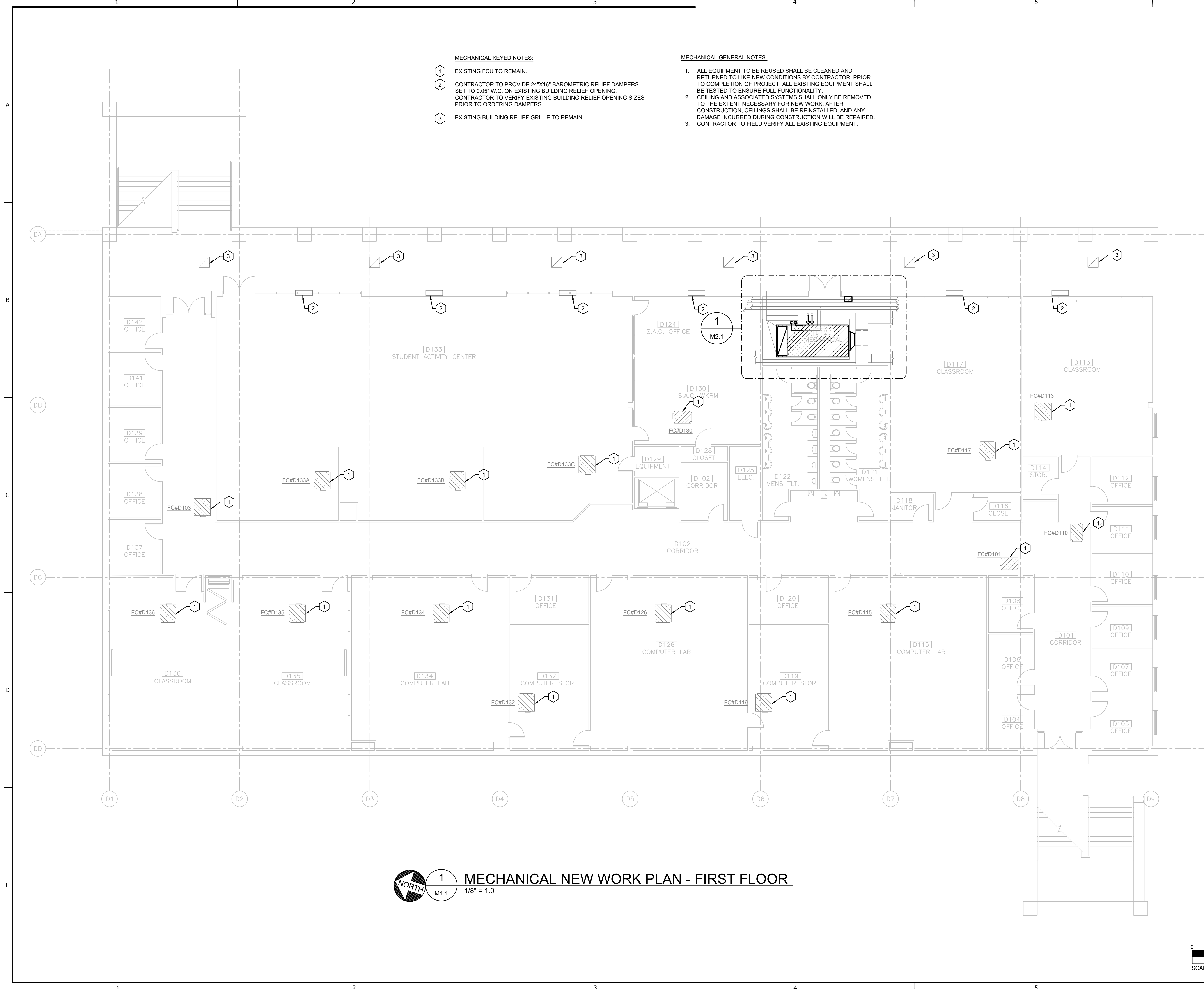
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**MECHANICAL  
DEMOLITION PLAN -  
FIRST FLOOR**

SHEET NO.

**MD1.1**



MECHANICAL KEYED NOTES:

- 1 EXISTING FCU TO REMAIN.
- 2 CONTRACTOR TO PROVIDE 24"X16" BAROMETRIC RELIEF DAMPERS SET TO 0.05" W.C. ON EXISTING BUILDING RELIEF OPENING. CONTRACTOR TO VERIFY EXISTING BUILDING RELIEF OPENING SIZES PRIOR TO ORDERING DAMPERS.
- 3 EXISTING BUILDING RELIEF GRILLE TO REMAIN.

MECHANICAL GENERAL NOTES:

1. ALL EQUIPMENT TO BE REUSED SHALL BE CLEANED AND RETURNED TO LIKE-NEW CONDITIONS BY CONTRACTOR. PRIOR TO COMPLETION OF PROJECT, ALL EXISTING EQUIPMENT SHALL BE TESTED TO ENSURE FULL FUNCTIONALITY.
2. CEILING AND ASSOCIATED SYSTEMS SHALL ONLY BE REMOVED TO THE EXTENT NECESSARY FOR NEW WORK. AFTER CONSTRUCTION, CEILINGS SHALL BE REINSTALLED, AND ANY DAMAGE INCURRED DURING CONSTRUCTION WILL BE REPAIRED.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING EQUIPMENT.

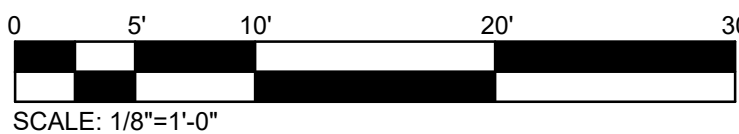


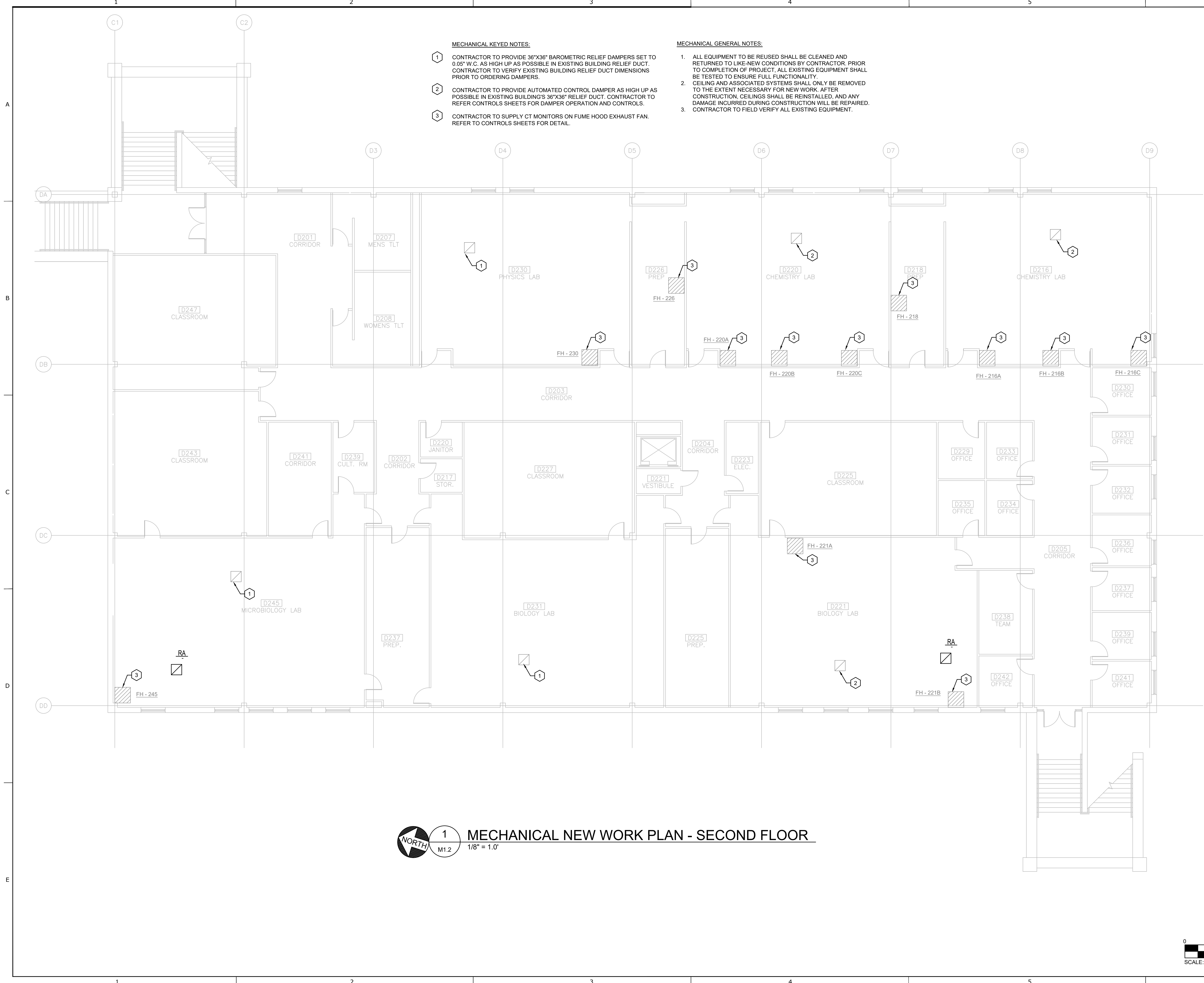
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M1.1

MECHANICAL NEW WORK PLAN - FIRST FLOOR

1/8" = 1'-0"





**MECHANICAL KEYED NOTES:**

1. CONTRACTOR TO PROVIDE 36"X36" BAROMETRIC RELIEF DAMPERS SET TO 0.05" W.C. AS HIGH UP AS POSSIBLE IN EXISTING BUILDING RELIEF DUCT. CONTRACTOR TO VERIFY EXISTING BUILDING RELIEF DUCT DIMENSIONS PRIOR TO ORDERING DAMPERS.
2. CONTRACTOR TO PROVIDE AUTOMATED CONTROL DAMPER AS HIGH UP AS POSSIBLE IN EXISTING BUILDING'S 36"X36" RELIEF DUCT. CONTRACTOR TO REFER CONTROLS SHEETS FOR DAMPER OPERATION AND CONTROLS.
3. CONTRACTOR TO SUPPLY CT MONITORS ON FUME HOOD EXHAUST FAN. REFER TO CONTROLS SHEETS FOR DETAIL.

**MECHANICAL GENERAL NOTES:**

1. ALL EQUIPMENT TO BE REUSED SHALL BE CLEANED AND RETURNED TO LIKE-NEW CONDITIONS BY CONTRACTOR. PRIOR TO COMPLETION OF PROJECT, ALL EXISTING EQUIPMENT SHALL BE TESTED TO ENSURE FULL FUNCTIONALITY.
2. CEILING AND ASSOCIATED SYSTEMS SHALL ONLY BE REMOVED TO THE EXTENT NECESSARY FOR NEW WORK. AFTER CONSTRUCTION, CEILINGS SHALL BE REINSTALLED, AND ANY DAMAGE INCURRED DURING CONSTRUCTION WILL BE REPAIRED.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING EQUIPMENT.



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SHEET TITLE  
**MECHANICAL NEW  
WORK PLAN -  
SECOND FLOOR**

SHEET NO.

**M1.2**



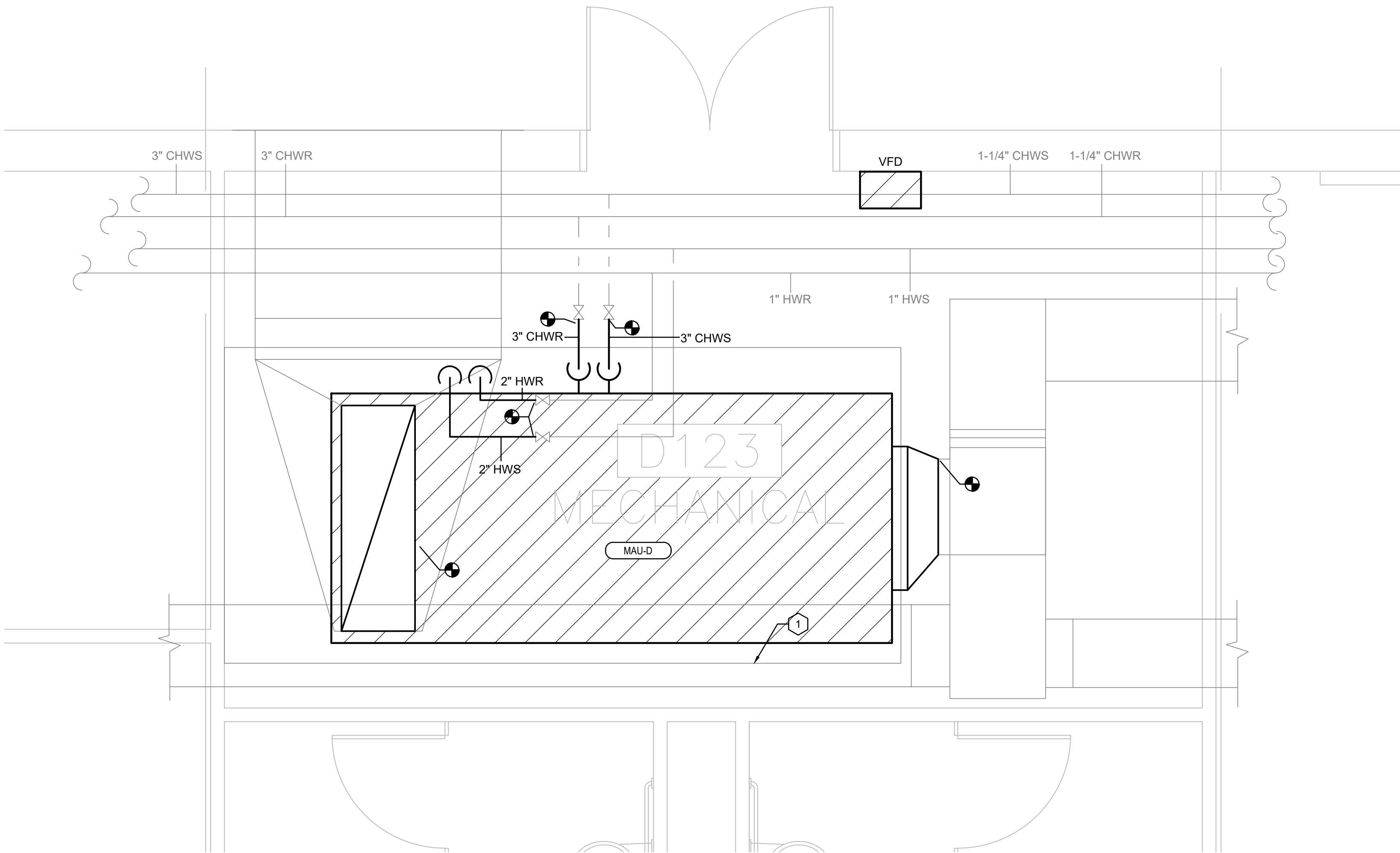
MECHANICAL KEYED NOTES:

1

CONTRACTOR TO REUSE EXISTING HOUSEKEEPING PAD.

MECHANICAL GENERAL NOTES:

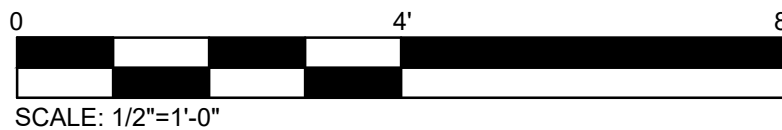
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3. CONTRACTOR TO FIELD VERIFY ALL EXISTING EQUIPMENT.

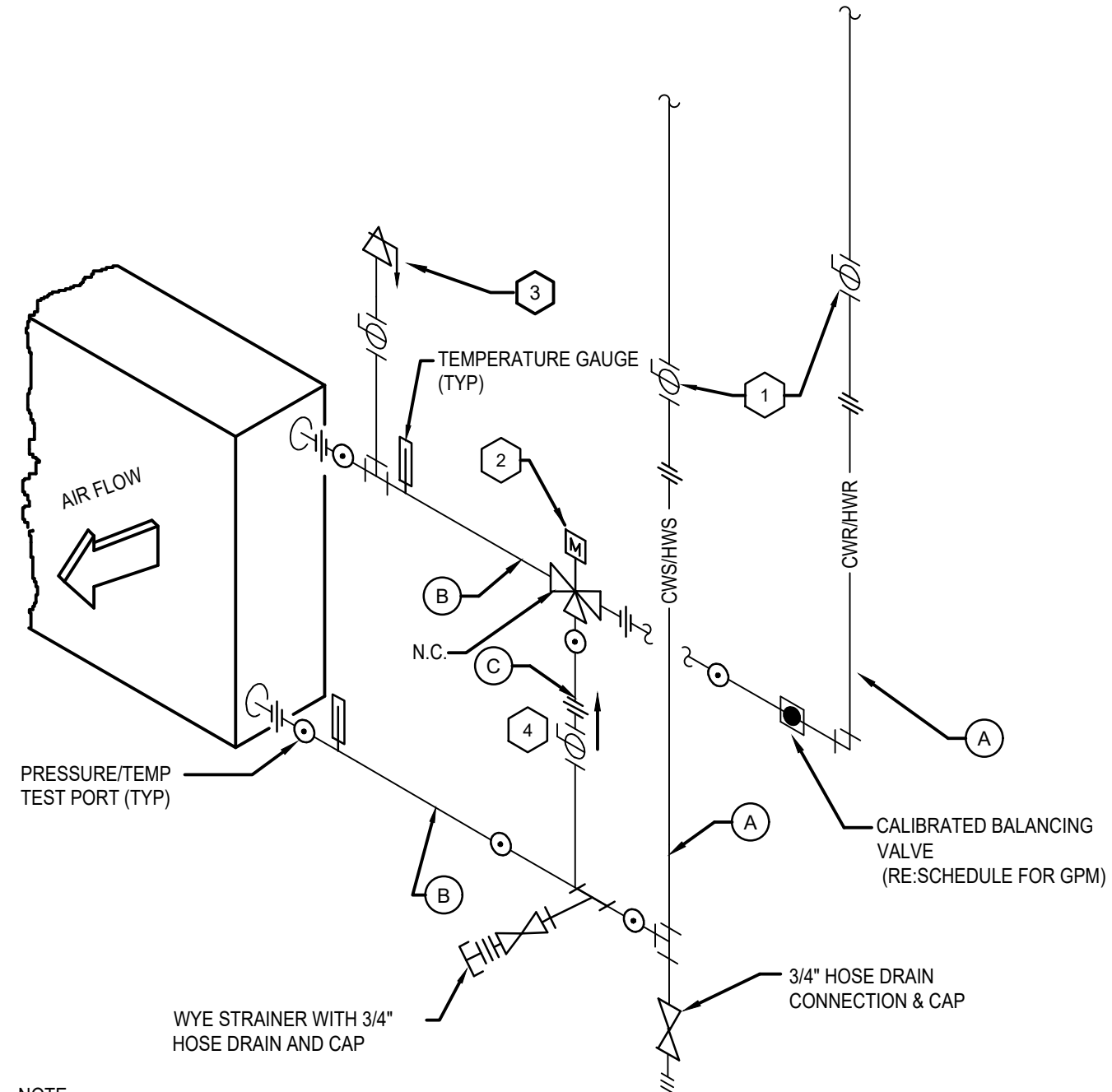


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M2.1

MECHANICAL ENLARGED PLAN

1/2" = 1.0'





SIZE SCHEDULE						
MARK NO.	CHILL H2O COILS			HOT H2O COILS - PRE-HEAT		
	(A)	(B)	(C)	(A)	(B)	(C)
MAU-C	3"	3"	-	2"	2"	1"

NOTE:  
1. THERMOMETER WELL AND PETES PLUG TO BE INSTALLED FULLY ACCESSIBLE.

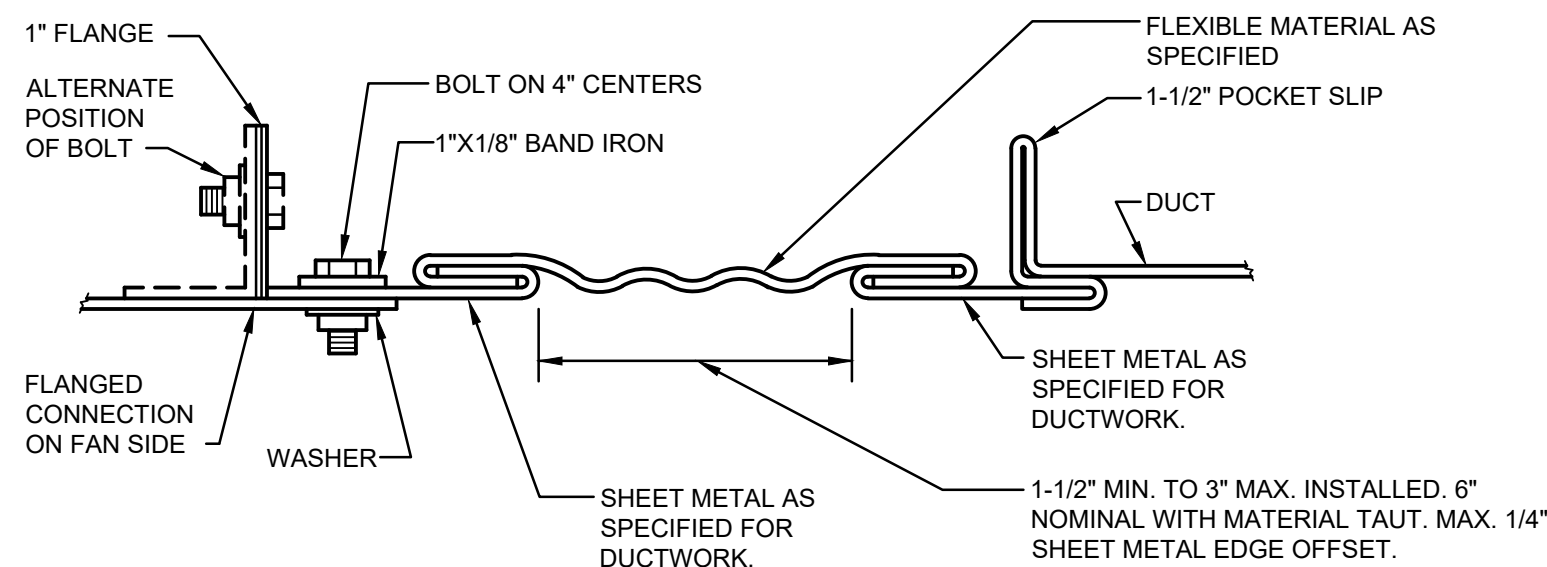
KEYED NOTES:

- 1 BALL OR BUTTERFLY ISOLATION VALVE DEPENDING ON SIZE.
- 2 2-WAY MODULATING VALVE IS REQUIRED WHEN NO VALVE IS GIVEN FOR (C) AND SHALL BE INSTALLED IN RETURN LINE.
- 3 AUTOMATIC AIR VENT PIPED TO FLOOR DRAIN. PROVIDE WHEN MAINS ARE LOCATED BELOW COIL.
- 4 BYPASS VALVE BALL OR BUTTERFLY VALVE DEPENDING ON SIZE.
- 5 FULLY SIZE TEMPORARY BYPASS FOR FLUSHING PURPOSES. REMOVE AFTER FLUSH COMPLETE. AHU COIL/VALVE ASSEMBLY TO BE COMPLETELY ISOLATED DURING FLUSH.

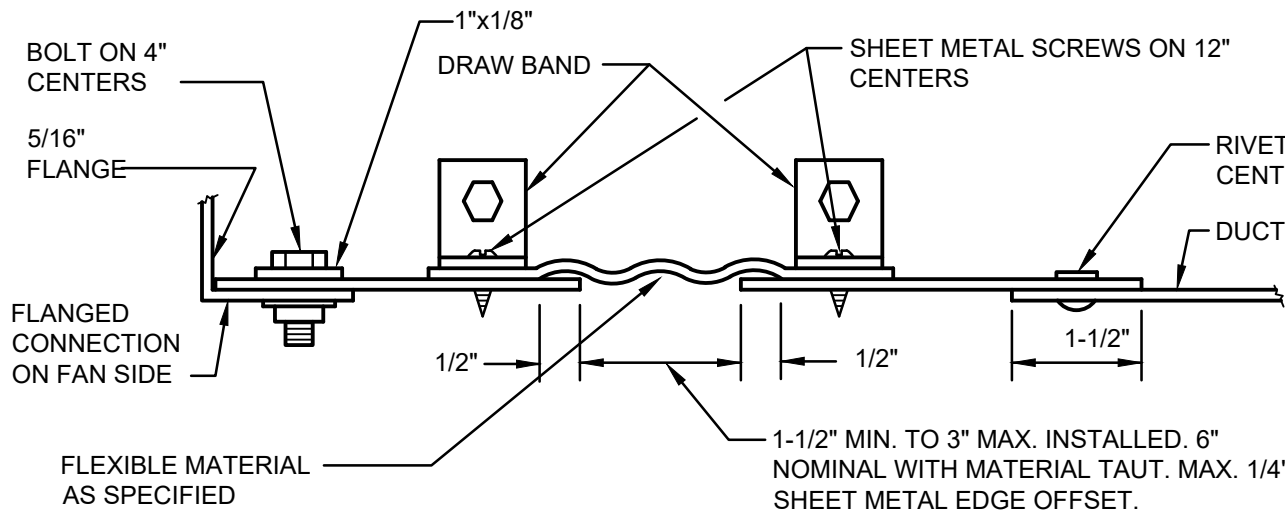
NOTE:  
SEE COIL PIPING SIZE SCHEDULE FOR SIZES AND NOTES.

### 1 CHILLED OR HOT WATER COIL PIPING SCHEMATIC

M3.1 NOT TO SCALE



#### RECTANGULAR FLEXIBLE CONNECTION

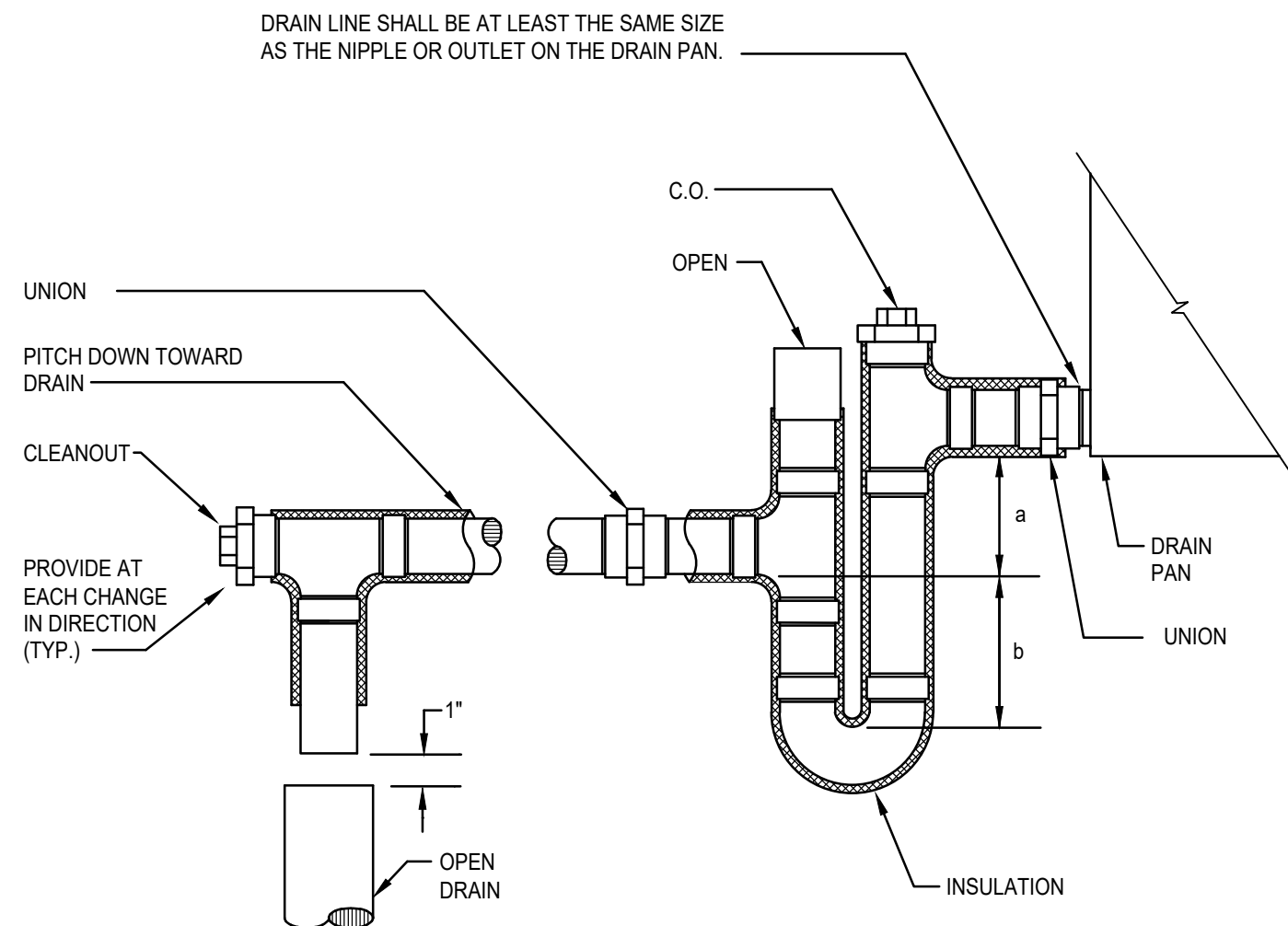


#### ROUND FLEXIBLE CONNECTION

TO BE INSTALLED AT ALL BUILDING EXPANSION JOINTS AND ALL HVAC UNIT CONNECTIONS. CONTRACTOR IS RESPONSIBLE FOR LOCATION AND QUANTITY.

### 2 DUCT FLEXIBLE CONNECTION DETAILS

M3.1 NOT TO SCALE



UNIT STATIC PRESS.	a	b
0'-1'	1"	2"
1'-2'	2"	3"
2'-3'	3"	4"

NOTES:

1. FOR DEPTH OF SEAL, SEE SCHEDULE BELOW.
2. LOCATE TRAP SO AS TO BE ACCESSIBLE FOR CLEANING.
3. ALL FITTING TO BE DWV.
4. ALL CONDENSATE SHALL BE ROUTED TO SANITARY DRAIN. NO CONDENSATE TO STORM.

### 3 TYPICAL DRAIN TRAP DETAIL

M3.1 NOT TO SCALE

AIR DEVICE SCHEDULE											
MARK	MODEL	SIZE	THROW (@ 100 FPM)	CFM RANGE	INLET	# SLOTS	O.B.D. REQ'D. ?	P.D. ("WG) *	MAX. NC	REFERENCE	NOTES
RA	85	24"x24"	-	0 - 1500	24"x24"	N/A	NO	0.01	30	PRICE	-

\* AT MAX. CFM

KEYED NOTES (AIR DEVICE SCHEDULE):

GENERAL NOTES (AIR DEVICE SCHEDULE):

1. ALL AIR DEVICES TO BE ALUMINUM, WHITE FINISH UNLESS NOTED OTHERWISE.
2. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES. ALL AIR DEVICES MOUNTED IN A DRYWALL CEILING SHALL HAVE A MOUNTING FRAME.
3. FOR 2-WAY DISCHARGE, THROWS LISTED REFLECT AIRFLOW IN A SINGLE DIRECTION.
4. P.D. ("WG) REFLECTS "TOTAL" PRESSURE (STATIC AND DYNAMIC).
5. REFER TO FLEX DUCT SCHEDULE FOR DUCT SIZES.
6. TRANSITION AS REQUIRED TO CONNECT DUCT TO AIR DEVICE.

### AIR HANDLING UNIT SCHEDULE

MARK	MAU-D
AREA SERVED	BUILDING D
UNIT LOCATION	D123
TOTAL CFM	10,305
O.A. CFM	10,305
EXT. S.P. *	1.5

#### COOLING COIL

TYPE	CHW
CFM	10,305
EAT (DB / WB)	105 / 78
LAT (DB / WB)	52.5 / 52.4
MAX. FACE VEL. (FPM)	500
MAX. APD (IN. WC)	0.65
GPM AT 44 EWT (TEMP. RISE = 12°F)	139.4
MAX. WPD (FT.)	15.5
MIN. ROWS / MAX. FINS (PER IN.)	6 / 10
VALVE TYPE	2-WAY
TOTAL CAPACITY (MBH)	840.1
SENS. CAPACITY (MBH)	555.5

#### ACCESS SECTION

DOOR REQUIRED?	YES
DOOR SIZE (MIN.)	18" x 67.5"

#### PRE-HEAT COIL

TYPE	HW
CFM	10,305
EAT (DB)	28.0
LAT (DB)	57.7
MAX. FACE VEL (FPM)	442.5
MAX. APD (IN. WATER)	0.1
GPM AT 145 EWT (TEMP. DROP = 10°F)	61.3
MAX. WATER PD (FT)	5.1
MAX. ROWS / MAX. FINS (PER IN.)	1 / 9
VALVE TYPE	3-WAY
OUTPUT (MIN. MBH)	358.8

#### ACCESS SECTION

DOOR REQUIRED?	YES
DOOR SIZE (MIN.)	16" x 67.5"

#### DISCHARGE PLENUM

REQUIRED?	NO
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#### FAN

TYPE	PLENUM
DRIVE	DIRECT
CONTROLS SEQUENCE #	M4.1
FAN QTY / FAN DIAMETER (IN.) [EACH]	4 / 16
FAN RPM [EACH] / MOTOR FLA [EACH]	3930 / 4.5
AIR MODULATION	CONSTANT
FAN MOTOR (MIN. HP [EACH] / V / PH)	3.5 / 460 / 3

#### ACCESS SECTION

DOOR REQUIRED?	YES
DOOR SIZE (MIN.)	21.5" x 67.5"

#### INLET SECTION

TYPE	FILTER
INLETS	1
FILTER TYPE	4" PLEATED
FINAL FILTER MERV (DIMENSIONS)	13 (20"x24"x4" / 20"x20"x4")
FILTER MOUNTING	FLAT
OA DAMPERS	YES
MAX. INITIAL FILTER PD @ 500 FPM	0.18
DIRTY FILTER ALLOWANCE (IN)**	0.75
OPERATING WEIGHT (LBS.)	6,427
REFERENCE	TEMTROL
NOTES	1 - 4

\* EXTERNAL STATIC PRESSURE INCLUDES SYSTEM LOSSES ONLY AND EXCLUDES OPENING PRESSURE

DROP AND LOSSES DUE TO ITEMS IN UNIT ITSELF (COILS, CASING, DAMPERS, CLEAN FILTERS, ETC.).

\*\* DIRTY FILTER ALLOWANCE IS PRESSURE DROP ALLOWED IN ADDITION TO INITIAL FILTER PD.

AIR HANDLING UNIT NOTES:

1. SCHEDULE FOR REFERENCE ONLY. AHU IS OWNER PURCHASED, OWNER SUPPLIED.
2. AHU TO BE SHIPPED IN SECTIONS AND ASSEMBLED IN MECHANICAL ROOM.
3. AHU TO BE MOUNTED ON EXISTING HOUSEKEEPING PAD.
4. CONTRACTOR TO FIELD INSTALL AIR FLOW MEASURING STATION TUBING AND TRANSDUCER.







ELECTRICAL SYMBOLS AND ABBREVIATIONS

(SOME SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT)

SYMBOLS

ABBREVIATIONS

GENERAL

	MOTOR, HP AS INDICATED
	CONTROLLER TO BE FURNISHED UNDER DIVISION 15 AND INSTALLED UNDER DIVISION 16
	DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH
	GROUNDING REFERENCE POINT.
	JUNCTION BOX, CEILING MOUNTED
	JUNCTION BOX, WALL MOUNTED
	PHOTO CELL
	RELAY
	TIME CLOCK
	CONTACTOR
	BELL
	BUZZER
	CEILING MOUNTED CLOCK
	WALL MOUNTED CLOCK
	WALL MOUNTED DOUBLE FACE CLOCK
	HORN
	TRANSFORMER AS INDICATED
	AUTOMATIC TRANSFER SWITCH
	EQUIPMENT CONNECTION
	KEYED NOTE NO. 2
	MECHANICAL EQUIPMENT DESIGNATION

LUMINAIRES

	LUMINAIRE, CEILING OR WALL MOUNTED. SUBSCRIPT INDICATES ASSOCIATED SWITCHING. CAPITAL LETTER INDICATES FIXTURE TYPE.
	FIXTURE CEILING MOUNTED
	FIXTURE WALL MOUNTED
	WALLWASH FIXTURE CEILING MOUNTED
	EXIT LIGHT, CEILING MOUNTED WITH ARROWS
	EXIT LIGHT, WALL MOUNTED WITH ARROWS
	EMERGENCY FIXTURE
	FIXTURE WITH WIRELESS OCCUPANCY AND DAYLIGHT SENSOR
	EMERGENCY LIGHT, WALL MOUNTED
	POLE MOUNTED LUMINAIRE
	FLOOD LIGHT. ARROW INDICATES AIMING DIRECTION.
	TRACK LIGHT WITH HEADS AS INDICATED

RACEWAYS

	CONDUIT CONCEALED IN WALL OR CEILING
	CONDUIT UNDER FLOOR OR CAST IN STRUCTURE
	SWITCH LEG
	BRANCH CIRCUIT HOMERUN 3/4" C, 3#12 AND 1#12 GND. MIN.
	SURFACE RACEWAY
	TELEPHONE
	BUS DUCT WITH TAKE OFF DEVICE

PANEL AND RELATED ITEMS

	PANELBOARD, SURFACE MOUNTED.
	PANELBOARD, FLUSH MOUNTED.
	SWITCHBOARD OR DISTRIBUTION BOARD
	MOTOR CONTROL CENTER
	TRANSIENT VOLTAGE SURGE SUPPRESSOR.
	PLYWOOD TELEPHONE BACKBOARD; PROVIDE WALL MOUNTED WHITE PAINTED 4x8' PLYWOOD BACKBOARD

OUTLETS

	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE; GFI=GROUND FAULT INTERRUPTING, WP=WEATHERPROOF, T=TAMPER RESISTANT, IG=ORANGE SOLATED GROUND, C=CLOCK OUTLET, TV=TV RECEPTACLE, CR=CONTROLLED RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	EMERGENCY RED DUPLEX RECEPTACLE
	EMERGENCY RED QUAD RECEPTACLE
	DUPLEX RECEPTACLE WITH USB PORTS
	SPECIAL PURPOSE RECEPTACLE
	ROUND FLOOR BOX WITH POWER AND DATA
	SQUARE FLOOR BOX WITH POWER AND DATA
	TELEPHONE OUTLET
	TELEVISION OUTLET
	VOICE/DATA OUTLET

SWITCHES

	SINGLE POLE SWITCH
	DOUBLE POLE SWITCH
	THREE-WAY SWITCH
	FOUR-WAY SWITCH
	CEILING FAN SPEED SWITCH
	SWITCH WITH PILOT LIGHT IN HANDLE
	WEATHERPROOF SWITCH
	MOTOR RATED SWITCH
	EXPLOSION PROOF SWITCH
	TIMER SWITCH
	MULTIPLE SWITCHES, GANGED.
	CEILING MOUNTED OCCUPANCY SENSOR
	WALL MOUNTED OCCUPANCY SENSOR AND SWITCH
	LOW VOLTAGE SWITCH
	LOW VOLTAGE SWITCH WITH DIMMER
	WALL MOUNTED WIRELESS ON/OFF SWITCH
	WALL MOUNTED WIRELESS ON/OFF/DIM SWITCH
	PUSHBUTTON

P.A./INTERCOM

	REMOTE INTERCOM STATION
	INTERCOM MASTER STATION
	SPEAKER, CEILING MOUNTED
	SPEAKER, WALL MOUNTED
	AMPLIFIER AND ASSOCIATED EQUIPMENT
	MICROPHONE JACK
	INTERCOM CALL BOX

FIRE ALARM

	FIRE ALARM CONTROL PANEL
	FIRE ALARM EXPANSION PANEL
	REMOTE FIRE ALARM ANNUNCIATOR
	MANUAL PULL STATION
	SMOKE DETECTOR; DASHED INDICATES BELOW RAISED FLOOR
	SMOKE DETECTOR, DUCT MOUNTED
	TEST SWITCH
	HEAT DETECTOR
	FLOW SWITCH
	VALVE SWITCH
	FLOW SWITCH
	AUDIO-VISUAL ANNUNCIATOR (WALL, CEILING)
	VISUAL ANNUNCIATOR (WALL, CEILING)
	MAGNETIC DOOR HOLDER
	FIRE FIGHTERS PHONE JACK
	FIRE ALARM SPEAKER / VISUAL (VOICE EVACUATION)

SITE UTILITY

	MANHOLE NUMBER 1; CMH-INDICATES COMMUNICATIONS MANHOLE.
	PULL BOX OR HANDHOLE AS SPECIFIED ON DRAWINGS AND SPECIFICATIONS.
	POWER POLE
	POLE MOUNTED TRANSFORMERS
	TELEPHONE TERMINAL BOX
	AERIAL PRIMARY
	AERIAL SECONDARY
	AERIAL TELEPHONE; CATV = CABLE TELEVISION.
	UNDERGROUND PRIMARY
	UNDERGROUND SECONDARY
	UNDERGROUND TELEPHONE/COMMUNICATIONS

SECURITY

	SECURITY PANEL
	DOOR CONTACT
	CCTV CAMERA WITH FIXED WIDE ANGLE LENS WALL MOUNTED TO SET CAMERA 6" BELOW CEILING.
	CCTV CAMERA; PT=PAN AND TILT; Z=ZOOM LENS
	EXTERIOR CAMERA IN WEATHERPROOF ENCLOSURE WITH ANTI-FOG HEATERS.
	DOOR LOCK
	CARD READER ACCESS
	DURESS PUSHBUTTON
	KEYPAD

DISTRIBUTION

	MOLDED CASE CIRCUIT BREAKER
	DRAWOUT POWER CIRCUIT BREAKER AIR, VACUUM OR SF AS SPECIFIED.
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	TRANSFORMER
	SHEILDED ISOLATION TRANSFORMER
	VOLTMETER
	AMMETER
	VOLTMETER SELECTOR SWITCH
	AMMETER SELECTOR SWITCH
	SHUNT TRIP
	CT AND METER

A	AMPERE(S)	MDP	MAIN DISTRIBUTION PANEL
AC	ABOVE COUNTER	MECH	MECHANICAL
A/C	AIR CONDITIONING	MH	METAL HALIDE
AIC	AMPERE INTERRUPTING CAPACITY	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AFG	ABOVE FINISHED GRADE	MTD	MOUNTED
AHU	AIR HANDLING UNIT	MTG	MOUNTING
AL , ALUM	ALUMINUM	MV	MERCURY VAPOR
ATS	AUTOMATIC TRANSFER SWITCH	MW	MICROWAVE
AWG	AMERICAN WIRE GAUGE	NA	NOT APPLICABLE
BLDG	BUILDING	NC	NORMALLY CLOSED
C	CONDUIT	NF	NONFUSIBLE
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	NTS	NOT TO SCALE
CKT	CIRCUIT	OC	ON CENTER
COND	CONDUCTOR	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED OVERHEAD
CPU	CENTRAL PROCESSING UNIT	OH	OVERHEAD
CT	CURRENT TRANSFORMER	P	POLE
DCP	DATA COLLECTION PANEL	PA	PUBLIC ADDRESS
DIA	DIAMETER	PB	PUSHBUTTON
DC	DISCONNECT	PBX	PRIVATE BUILDING EXCHANGE
DIST	DISTRIBUTION	PC	PULL CHAIN
DN	DOWN	PIC	PHOTO CELL
DWGS	DRAWINGS	PDP	POWER DISTRIBUTION PANEL
EC	EMPTY CONDUIT	PH , Ø	PHASE
EF	EXHAUST FAN	PNL	PANELBOARD
EQMT	EQUIPMENT	PR	PAIR
EWC	ELECTRIC WATER COOLER	PSI	POUNDS PER SQUARE INCH
EXH	EXHAUST	PWR	POWER
EXP	EXPLOSION PROOF	QUAD	QUAD RECEPTACLE
EXTG	EXISTING	REFR	REFRIGERATOR
F/A , F.A.	FIRE ALARM	S	SECURITY
FLUOR	FLUORESCENT	S.C.	SPLIT CIRCUIT
FN	FULL NEUTRAL	SCC	STATUS COMMAND CENTER
FT	FEET, FOOT	SN	SOLID NEUTRAL
GALV	GALVANIZED	SPD	SURGE PROTECTION DEVICE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SQFT. ⬮	SQUARE FOOT
GFI	GROUND FAULT INTERRUPTER	SW	SWITCH
GND	GROUND	SWBD	SWITCHBOARD
GRD	GALVANIZED RIGID STEEL	TC	TIME CLOCK
HID	HIGH INTENSITY DISCHARGE	TELE	TELEPHONE
HP	HORSEPOWER	TSTAT	THERMOSTAT
HOA	HAND OFF AUTOMATIC	TV	TELEVISION
HPS	HIGH PRESSURE SODIUM	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
HVAC	HEATING/VENTILATING/AIR CONDITIONING	UON	UNLESS OTHERWISE NOTED
HZ	HERTZ	UPS	UNINTERRUPTABLE POWER SUPPLY
ID	INSIDE DIAMETER	V	VOLT(S)
IG	ISOLATED GROUND	VEND	VENDING
IMC	INTERMEDIATE STEEL CONDUIT	VP	VAPOR PROOF
IN	INCHES	W	WIRE , WATT(S)
INCD	INCANDESCENT	WP	WEATHERPROOF
JB	JUNCTION BOX	XFMR	TRANSFORMER
KV	KILOVOLT	1P	ONE POLE
KVA	KILOVOLT AMPERE	2P	TWO POLE
KVAC	KILOVOLT AMPERE CAPACTIVE	3P	THREE POLE
KVAR	KILOVOLT AMPERE REACTIVE		
KW	KILOWATT		
KWH	KILOWATT HOUR		
LPS	LOW PRESSURE SODIUM		
MAX	MAXIMUM		
MCB	MAIN CIRCUIT BREAKER		
MCC	MOTOR CONTROL CENTER		



PRELIMINARY REVIEW  
NOT FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION  
MICHAEL T. DANIEL  
P.E. REG. NO. 139695  
12/05/2025

BLINN BUILDING D MAU  
REPLACEMENT  
2423 BLINN BLVD  
BRYAN, TEXAS 77802

Drawn  
Checked  
Date 5 DECEMBER 2025  
CZE Project No. 250697  
Revisions

SHEET TITLE  
ELECTRICAL SYMBOLS AND ABBREVIATIONS  
SHEET NO.

E0.0

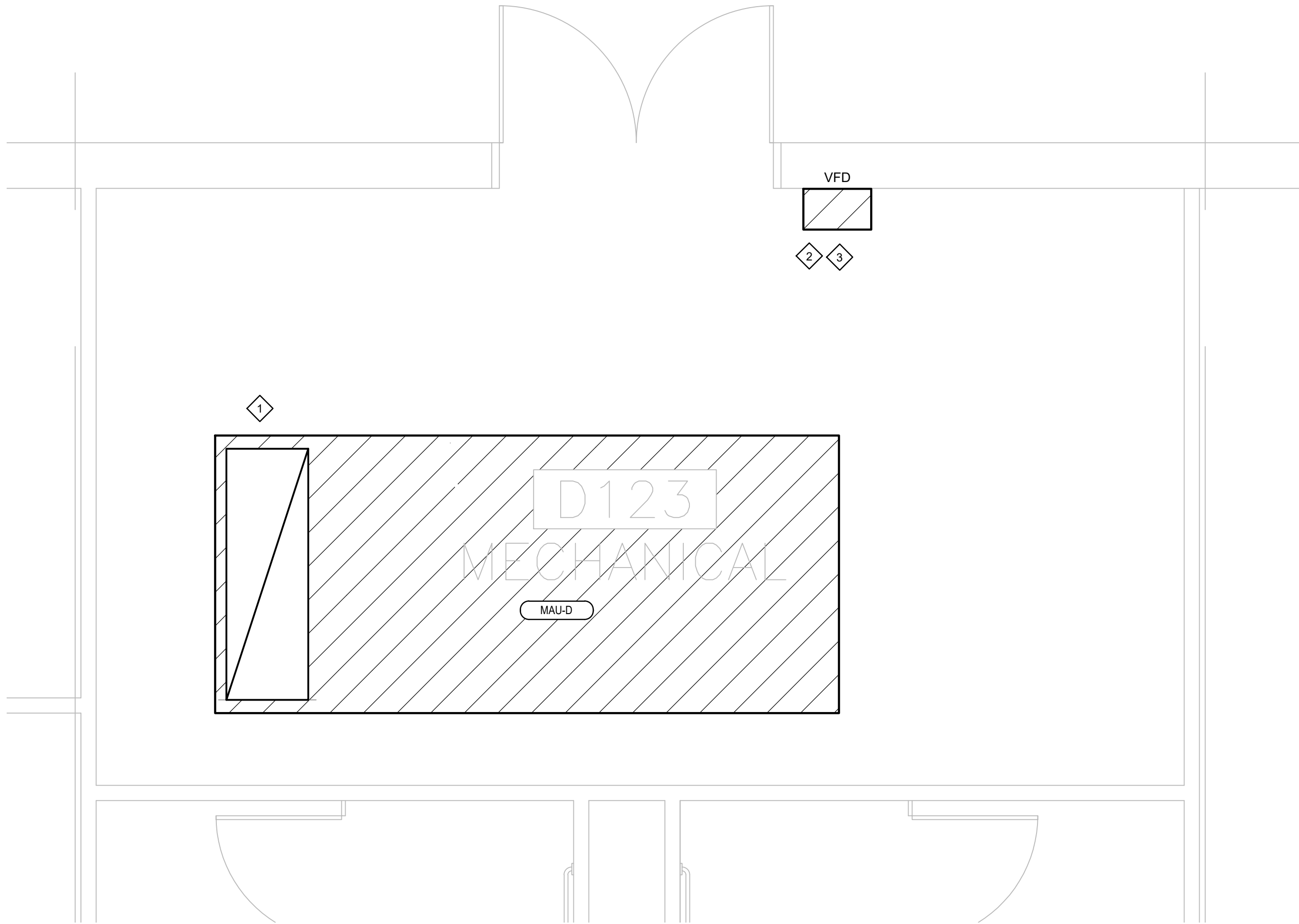
A  
B  
C  
D  
E

KEYED PLAN NOTES:

- 1 SALVAGE ANY EXISTING DUCT SMOKE DETECTORS FROM MAU TO BE DEMOLISHED FOR INSTALLATION IN NEW MAU.
- 2 DEMOLISH EXISTING MOTOR STARTER AND MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW EQUIPMENT.
- 3 PROVIDE NEW 30A/3P/NF DISCONNECT AHEAD OF NEW VFD. DISCONNECT TO BE SUPPLIED BY EXISTING CIRCUIT REMAINING AFTER MOTOR STARTER DEMOLITION. NEW CONDUCTORS TO BE 3 #12 HOTS AND 1 #12 GROUND IN 3/4" CONDUIT.

ELECTRICAL GENERAL NOTES:

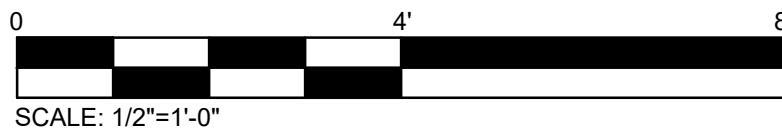
1. ALL EQUIPMENT TO BE REUSED SHALL BE CLEANED AND RETURNED TO LIKE-NEW CONDITIONS BY CONTRACTOR. PRIOR TO COMPLETION OF PROJECT, ALL EXISTING EQUIPMENT SHALL BE TESTED TO ENSURE FULL FUNCTIONALITY.
2. CEILING AND ASSOCIATED SYSTEMS SHALL ONLY BE REMOVED TO THE EXTENT NECESSARY FOR NEW WORK. AFTER CONSTRUCTION, CEILINGS SHALL BE REINSTALLED, AND ANY DAMAGE INCURRED DURING CONSTRUCTION WILL BE REPAIRED.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING EQUIPMENT.
4. CONTRACTOR RESPONSIBLE FOR UPDATING EQUIPMENT AND PANEL SCHEDULES.



1  
E2.1

ELECTRICAL POWER PLAN

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



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