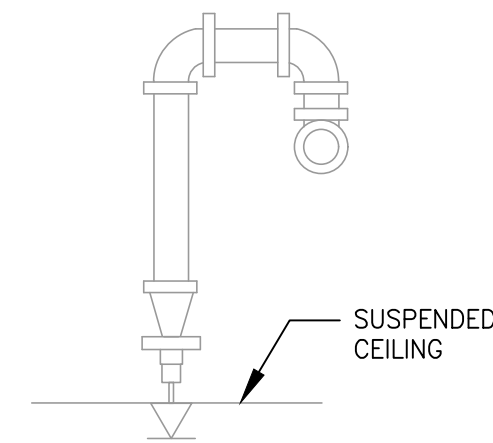


DEMO PARTIAL FIRST FLOOR PLAN - FIRE PROTECTION
 GRAPHIC SCALE 1/4" = 1'-0"

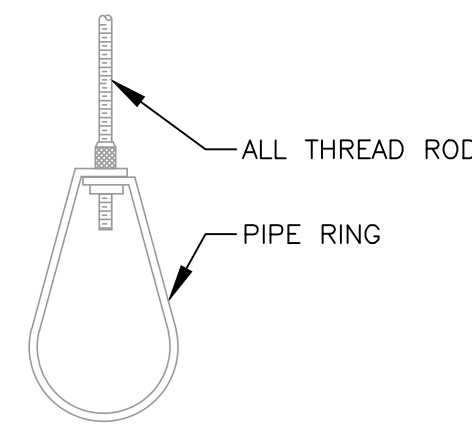
DEMO PARTIAL FIRST FLOOR PLAN - FIRE PROTECTION
 GRAPHIC SCALE 1/4" = 1'-0"

FIRE PROTECTION GENERAL NOTES

1. THE MODIFICATIONS TO THE FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13, THE CURRENT FLORIDA FIRE PREVENTION CODE, AND ALL APPLICABLE , STATE AND LOCAL CODES.
2. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES AND ALL GOVERNMENT REQUIREMENTS.
3. PIPES AND FITTINGS SHALL MATCH EXISTING PIPE.
4. PROVIDE NEW PENDANT HEAD SPRINKLERS OF SAME RATINGS AS EXISTING.



RETURN BEND ASSEMBLY
 NOT TO SCALE

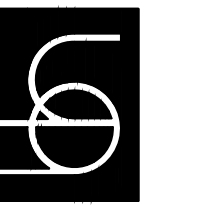
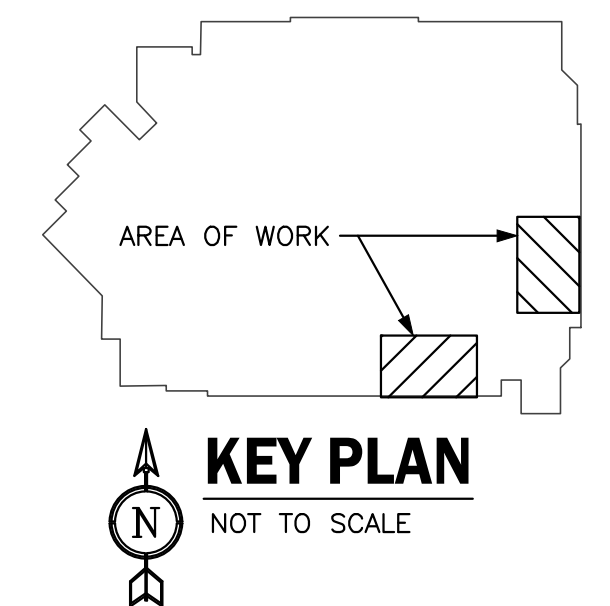


HANGER DETAIL
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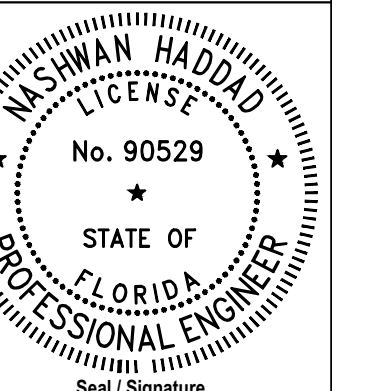
LEGEND

- ⊕_E EXISTING SPRINKLER HEAD
- ⊕_R RELOCATED SPRINKLER HEAD
- ⊕_N NEW SPRINKLER HEAD

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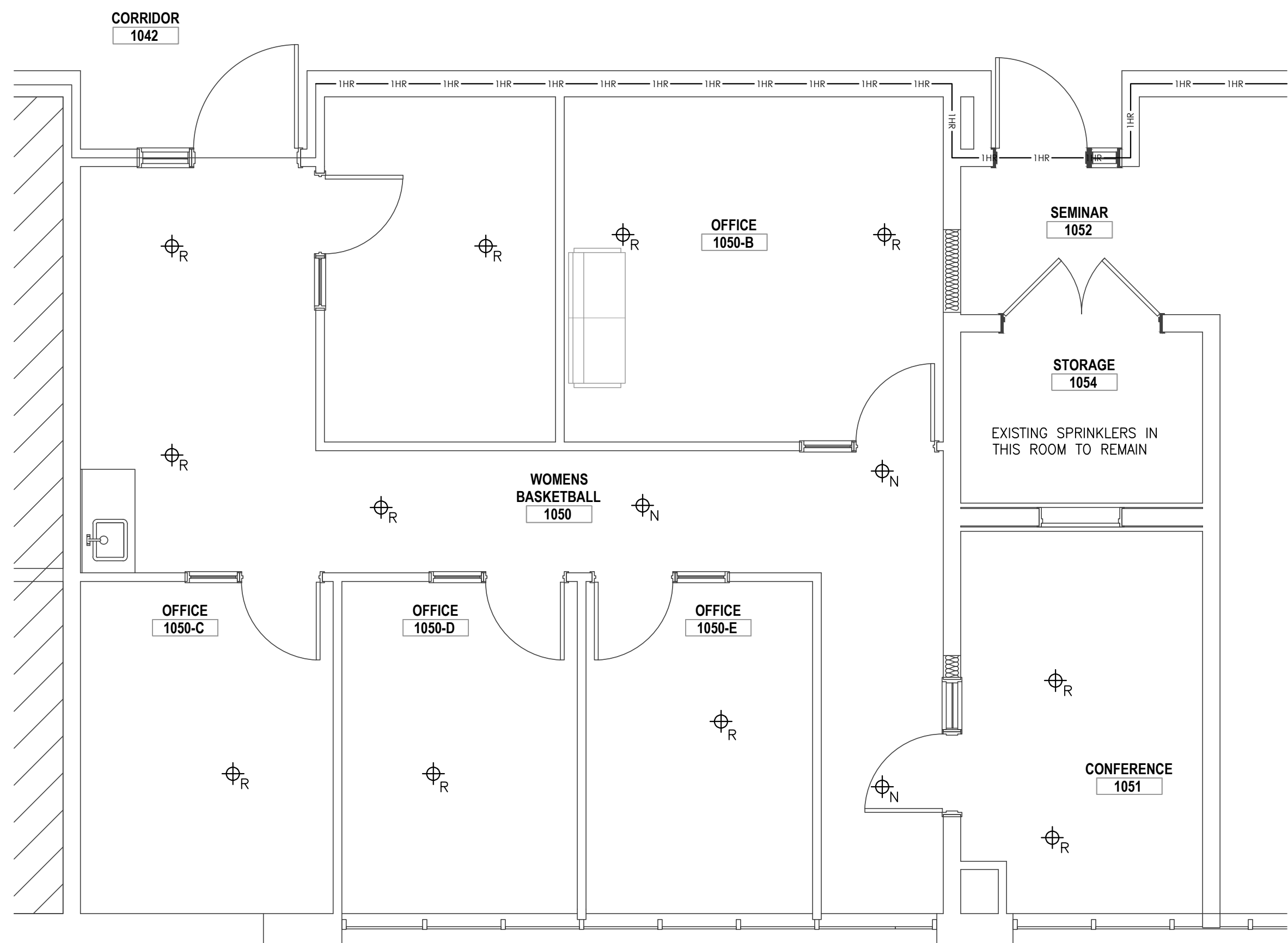
Seal / Signature

Revision	Date

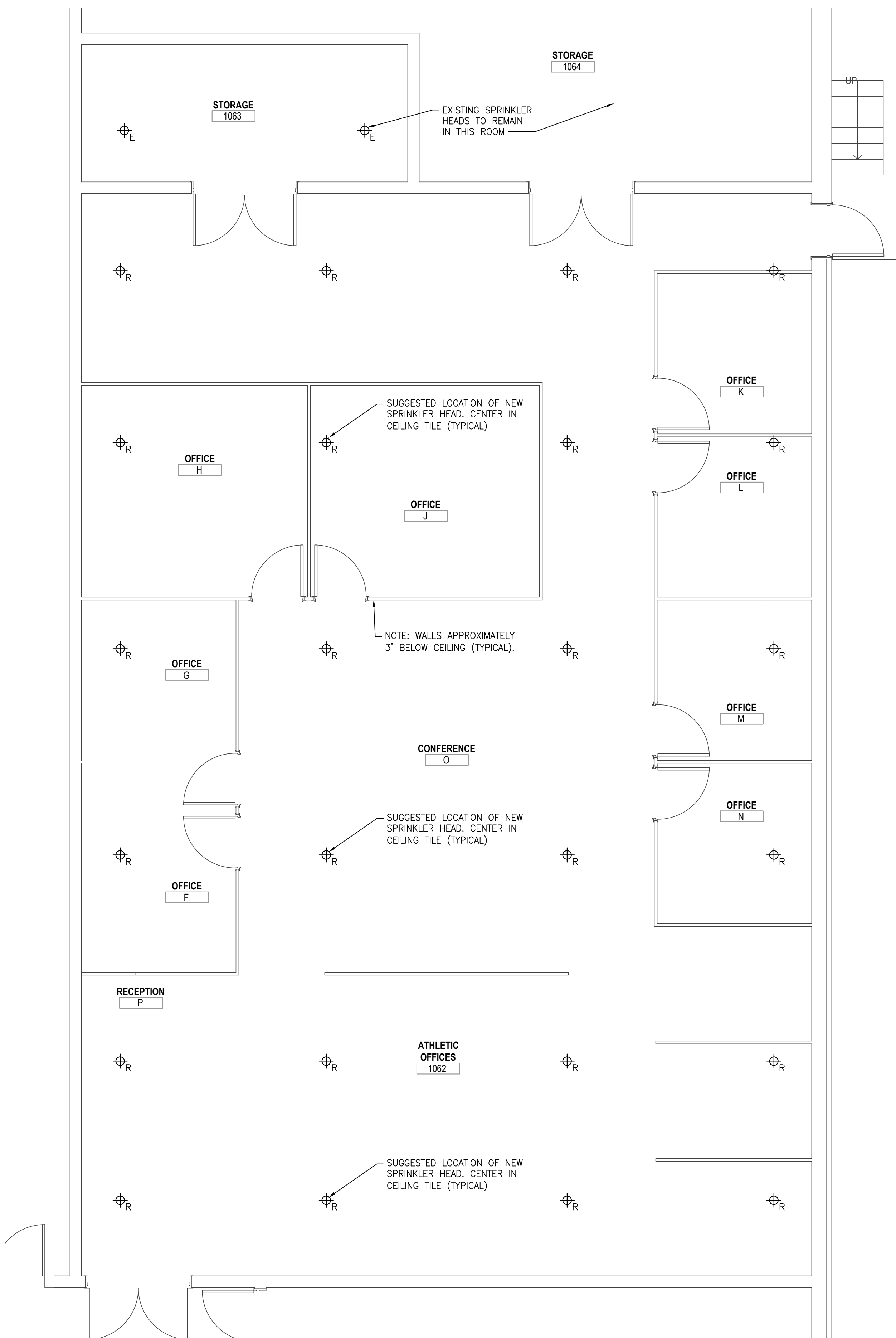
**FIRE PROTECTION
 DEMO FLOOR PLAN,
 NOTES AND DETAILS**

DATE:	05/17/21
D.B.:	NH
C.B.:	NH
JOB NO.:	202102

FP1.0

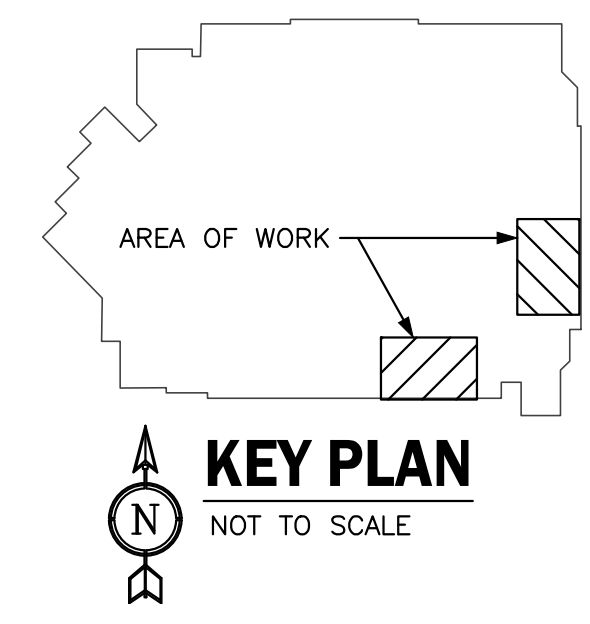


NEW PARTIAL FIRST FLOOR PLAN - FIRE PROTECTION
 GRAPHIC SCALE 1/4" = 1'-0"

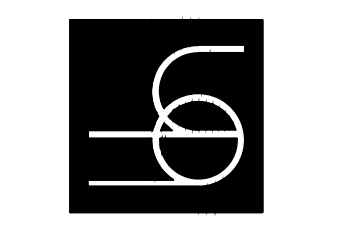


NEW PARTIAL FIRST FLOOR PLAN - FIRE PROTECTION
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 1329 KINGSLEY AVENUE, SUITE C ORANGE PARK, FLORIDA 32073 PH: (904) 264-1919 LIC. NO. AAC000696
HADDAD ENGINEERING, INC.

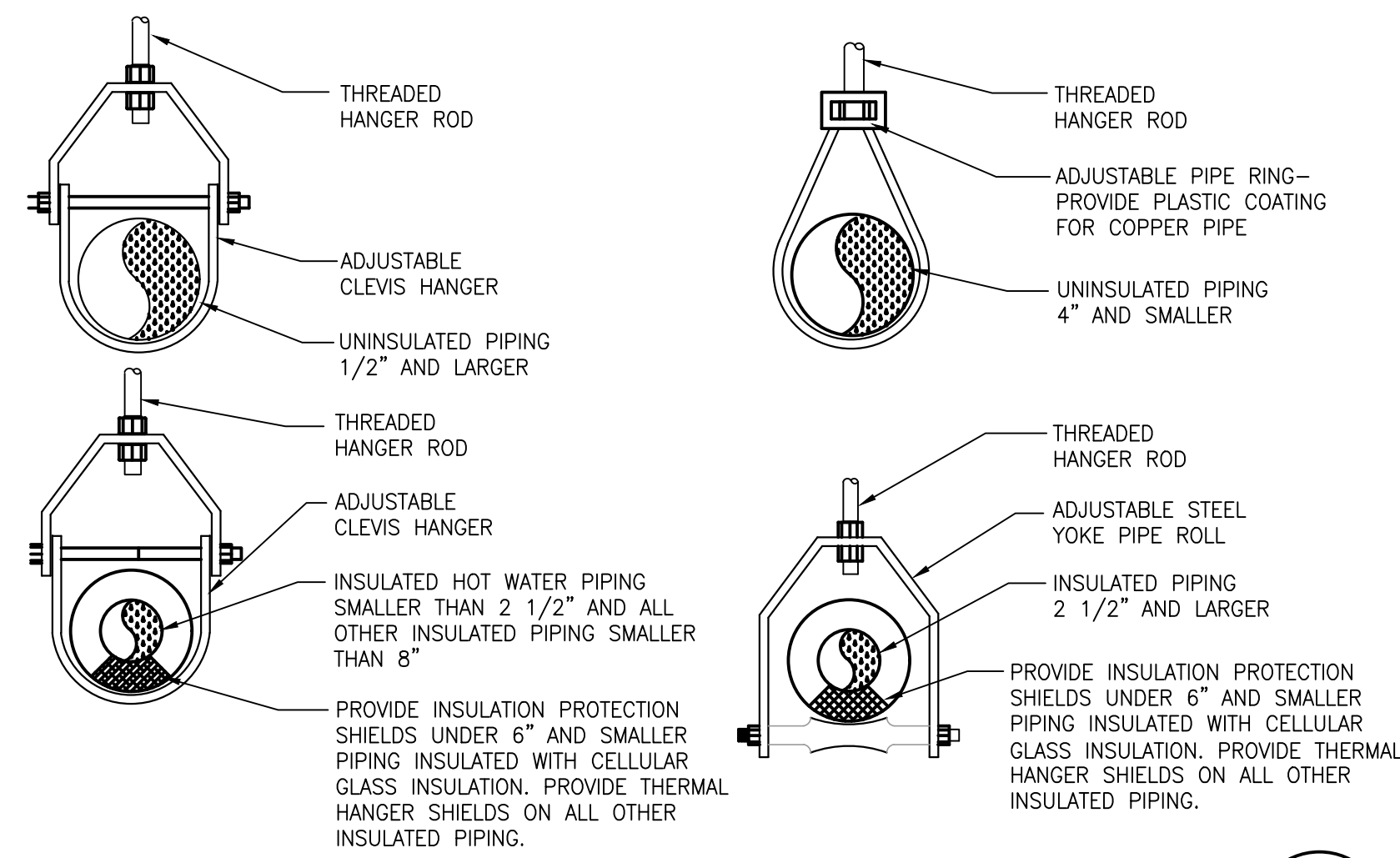


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 JACKSONVILLE, FLORIDA 32224

ENGINEER LICENSE NO.
 NASHWAN HADDAD 90529
NASHWAN HADDAD LICENSE
 No. 90529
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Seal / Signature

Revision	Date

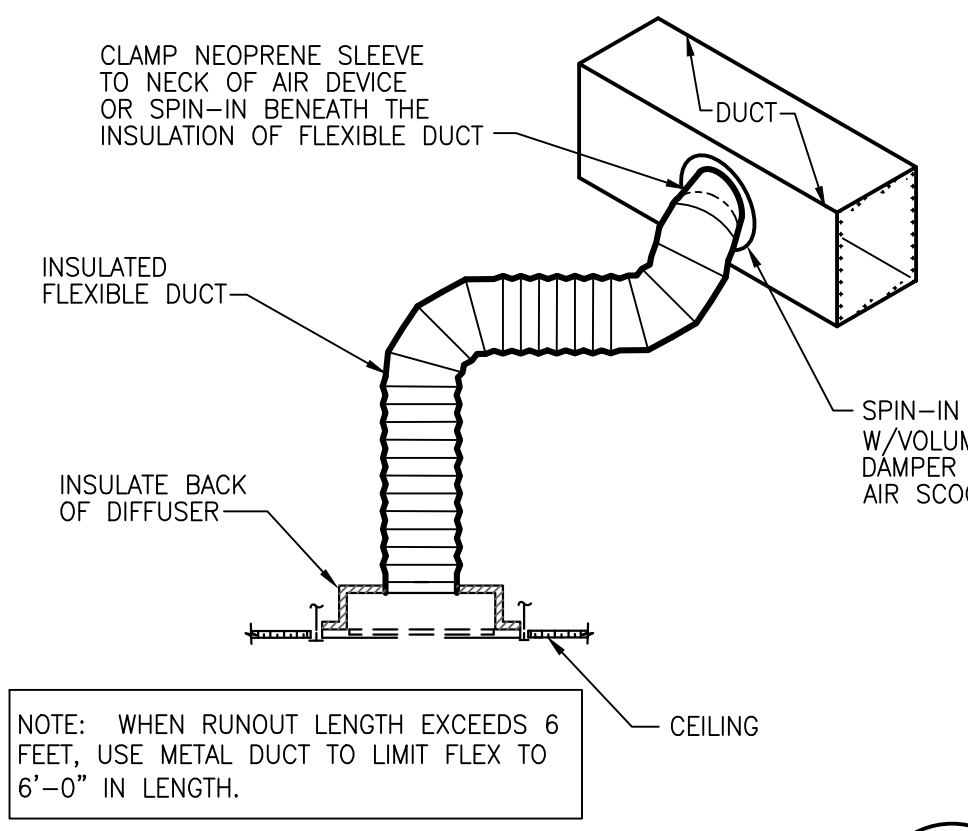
**FIRE PROTECTION
 NEW FLOOR PLAN**
 DATE: 05/17/21
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 C.B.: NH
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PIPE HANGER DETAILS

NOT TO SCALE

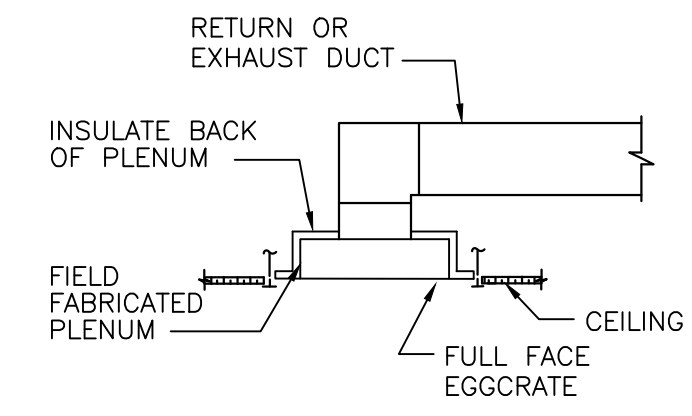
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M1.0



SUPPLY DIFFUSER DETAIL

NOT TO SCALE

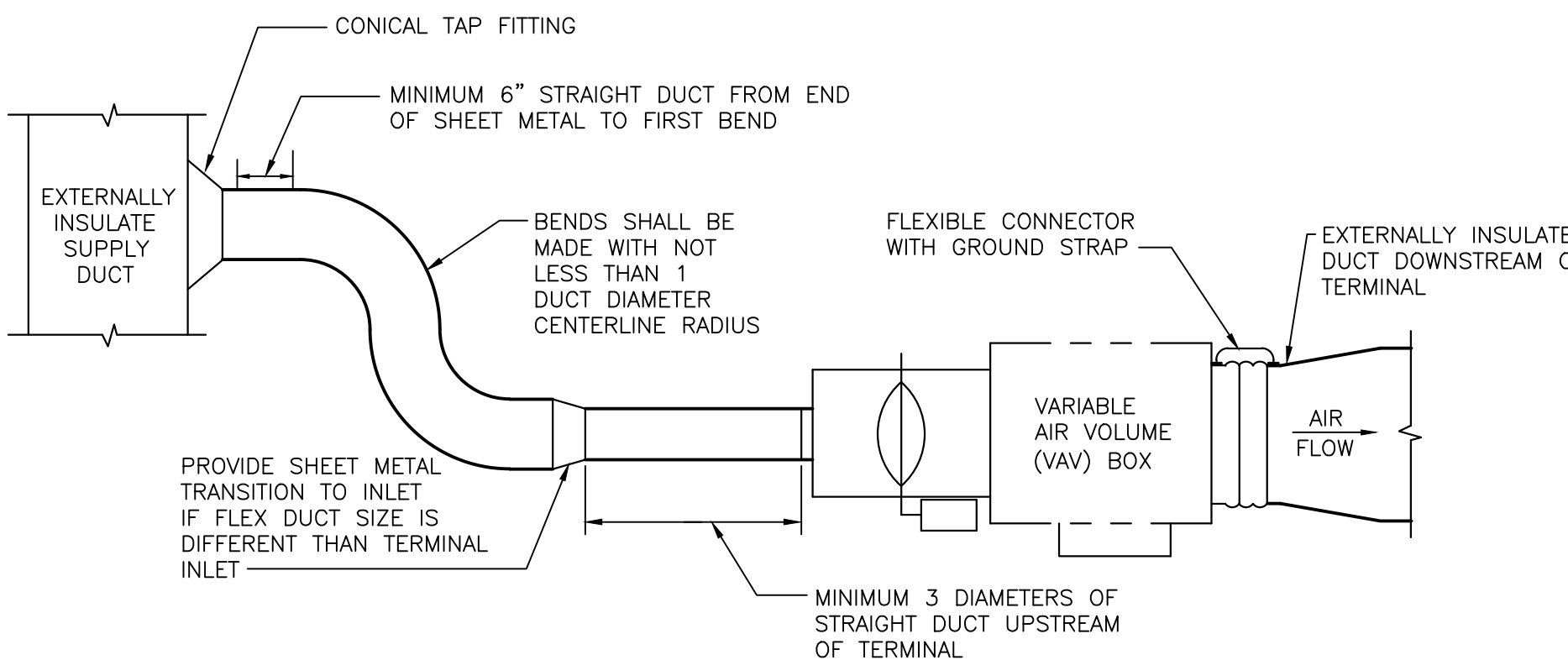
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M1.0



FULL FACE EGGCRATE DETAIL

NOT TO SCALE

3
M1.0

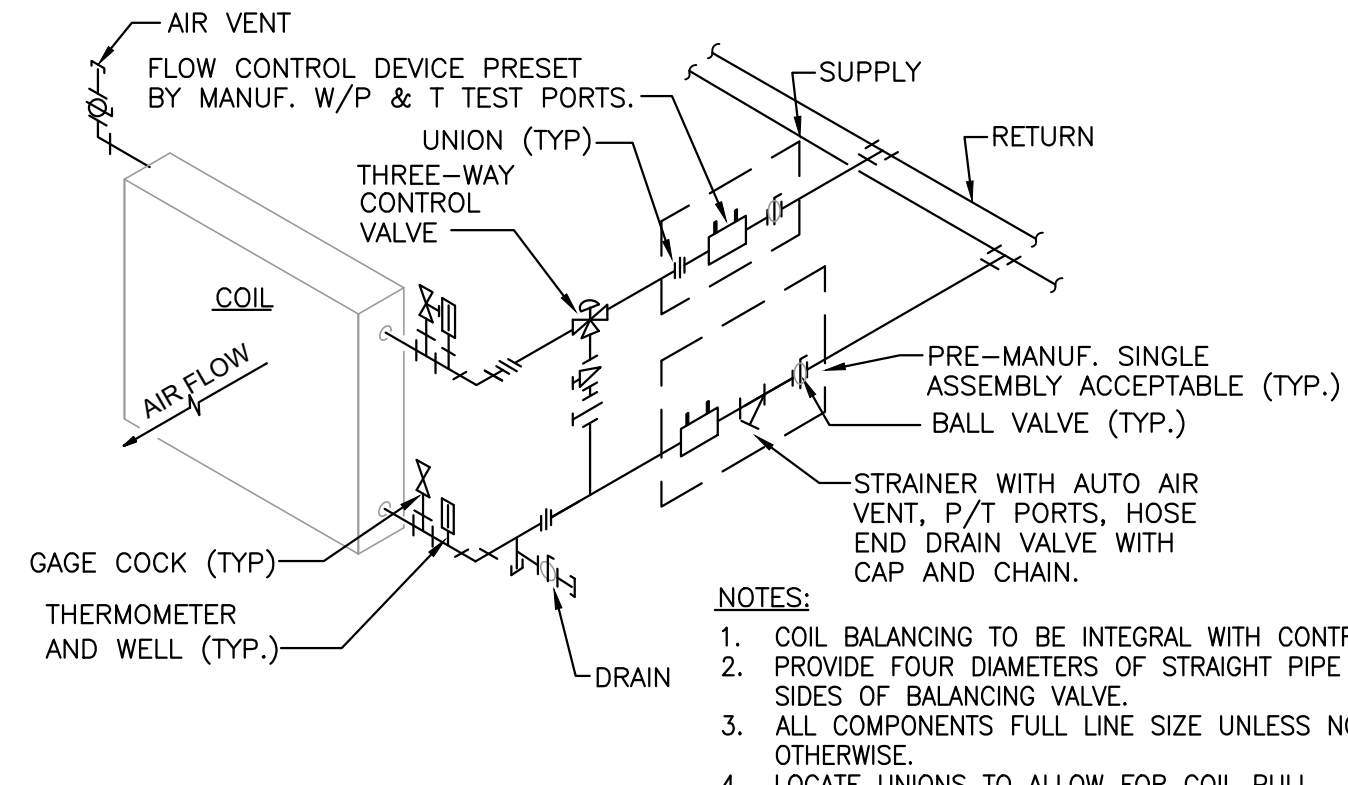


1. SUPPORT VAV TERMINAL INDEPENDENTLY OF DUCTWORK WITH VIBRATION ISOLATORS
2. INSULATE DUCT COLLARS OF VAV TERMINAL
3. INSULATE VAV OR ANY PORTIONS OF VAV TERMINAL IF NOT FACTORY LINED OR INSULATED.

VARIABLE AIR VOLUME TERMINAL

NOT TO SCALE

4
M1.0



- NOTES:**
1. COIL BALANCING TO BE INTEGRAL WITH CONTROL VALVE.
 2. PROVIDE FOUR DIAMETERS OF STRAIGHT PIPE ON BOTH SIDES OF BALANCING VALVE.
 3. ALL COMPONENTS FULL LINE SIZE UNLESS NOTED OTHERWISE.
 4. LOCATE UNIONS TO ALLOW FOR COIL PULL.

REHEAT COIL PIPING DETAIL

NOT TO SCALE

5
M1.0

VAV BOX SCHEDULE				
UNIT NO.	VAV-8-1	VAV-8-2	VAV-8-3	VAV-8-4
SERVES	1051 CONFERENCE	1050-D AND 1050-E OFFICE	1050-B AND 1050-F OFFICE	1050 AND 1050-C
INLET SIZE (INCHES)	10	12	5	10
AIR FLOW (CFM-MAX/MIN)	780/225	1,320/305	175/65	665/225
HEATING MINIMUM CFM	225	305	65	225
MAX INLET S.P. (IN. W.G.)	1.25	1.25	1.25	1.25
MAXIMUM SOUND RATING (NC)	<25	<25	<25	<25
HEATING COIL TYPE	WATER	WATER	WATER	WATER
FLOW (GPM)	2.1	3.6	0.5	1.8
ENT./LVG. WATER (F)	140/120	140/120	140/120	140/120
VOLTS/PHASE/HERTZ	120/1/60	120/1/60	120/1/60	120/1/60
CONTROL	CSC	CSC	CSC	CSC
ENT. AIR/LVG. AIR dB/dB (F)	55.0/80.0	55.0/80.0	55.0/80.0	55.0/80.0
MAX. AIR P.D. (IN. W.G.)	0.02	0.02	0.02	0.02
MANUFACTURER	PRICE	PRICE	PRICE	PRICE
MODEL NO.	SDV-10	SDV-12	SDV-5	SDV-10
NOTES	1-10	1-10	1-10	1-10

NOTES:

1. UNITS SHALL BE PRESSURE INDEPENDENT, NORMALLY OPEN.
2. SOUND DATA SHALL BE OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH ARI STANDARD 880.
3. MAX NC AT 1" W.C. INLET STATIC PRESSURE.
4. 1" RIGID INSULATION WITH FOIL FACE TOWARD AIR STREAM.
5. MANUFACTURE SHALL FACTORY MOUNT AND TEST CONTROLS ON ALL TERMINALS.
6. AIR PRESSURE DROP INDICATED IS AT FULL OPEN POSITION AND INCLUDES HEATING COIL PRESSURE DROP.
7. MINIMUM COOLING CFM SHALL BE AS SHOWN DURING OCCUPIED MODE, BUT SHALL BE ZERO (0) CFM (FULL-SHUTOFF) DURING UNOCCUPIED MODE.
8. HW COIL PRESSURE DROP SHALL NOT EXCEED 4 FEET HEAD.
9. COORDINATE HEATING COIL HANDEDNESS WITH FIELD CONDITIONS.
10. PROVIDE FACTORY INSTALLED AND WIRED TO 24V TRANSFORMER AT EACH TERMINAL UNIT FOR CONTROL POWER.

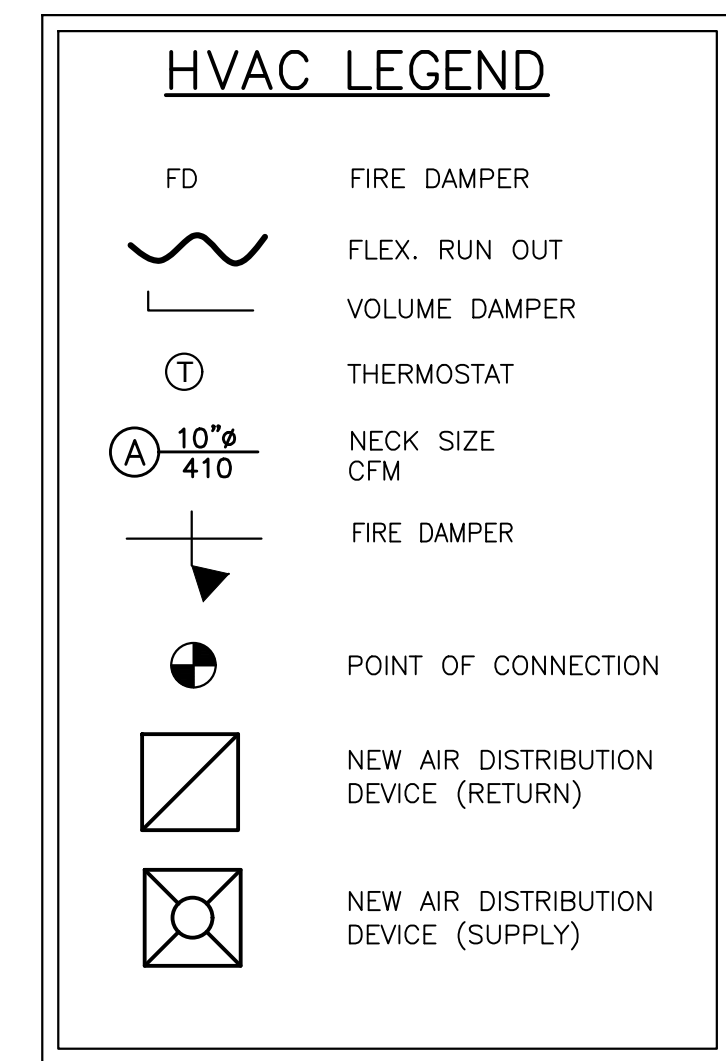
AIR DISTRIBUTION SCHEDULE						
MARK	TYPE	FACE SIZE	BORDER TYPE	MANUFACTURER	MODEL NO.	NOTES
A	LOUVER FACED	24x24	LAY-IN	PRICE	ASDA-3	1, 3
B	CEILING EGGCRATE RETURN	24x24	LAY-IN	PRICE	81DAL-TB	1, 2, 3

NOTES:

1. PROVIDE OPPOSED BLADE DAMPER.
2. EGGCRATE SHALL BE FULL FACE SIZE 1/2"x1/2"x1".
3. PROVIDE DAMPER AT FITTING OF LOW PRESSURE DUCTWORK.

HVAC GENERAL NOTES

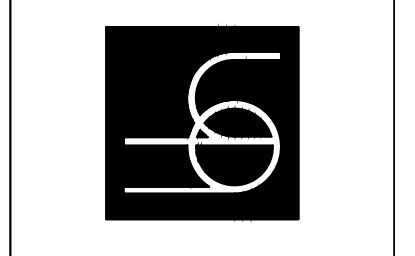
1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
2. VERIFY INSTALLED STRUCTURE PRIOR TO FABRICATION OF DUCTWORK AND THE HANGING OF DUCTWORK. COORDINATE ALL DUCTWORK WITH JOIST AND STEEL SPACING.
3. SEE SPECIFICATIONS FOR GAGES AND BRACING REQUIREMENTS OF DUCTWORK. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
4. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH COPPER FLEXIBLE STRAP 1/8" BY 1/2" WIDE MULTI-STRANDED BRAID (#4 AWG) WITH FLAT LUG (3/16" HOLE DIAMETER) AT EACH END FOR ATTACHMENT. EACH FLEXIBLE STRAP SHALL BE 8" LONG.
5. ACCESS PANELS IN DUCT WORK AND CEILINGS SHALL BE PROVIDED FOR OPERATION AND MAINTENANCE OF ALL FANS, HEATERS, VALVES, DAMPERS, AND MECHANICAL EQUIPMENT.
6. THE CENTERLINE OF THE SENSORS SHALL BE LOCATED AT 46" AFF.
7. ALL DUCTS AND PIPING SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO WALLS AND BEAMS.
8. FLEXIBLE DUCT CONNECTIONS SHALL BE PROVIDED ON ALL DUCT CONNECTIONS TO FANS AND AIR HANDLING UNITS. FLEX SHALL BE A MINIMUM OF 4" AND A MAXIMUM OF 8" IN LENGTH.
9. INSIDE OR OUTSIDE OF DUCT VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS OR EXPOSED DUCT AND EQUIPMENT SHALL BE PAINTED FLAT BLACK.
10. ALL EQUIPMENT, PIPING, AND DUCTWORK SHALL BE SUPPORTED AS DETAILED AND SPECIFIED. ADDITIONAL SUPPORTS SHALL BE PROVIDED AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
11. INSULATE THE BACKS OF EACH RETURN REGISTER AND SUPPLY DIFFUSER WITH A 2" THICK DUCTWRAP INSULATION. MINIMUM R-VALUE = R-6.
12. FLEXIBLE DUCT CONNECTING MAIN DUCT TO SUPPLY DIFFUSER SHALL NOT EXCEED 6 FEET IN LENGTH. IF THE DISTANCE EXCEEDS THIS LIMIT, AN INSULATED METAL DUCT OF REQUIRED LENGTH AND EQUAL DIAMETER SHALL BE INSTALLED WITH AIR SCOOP AND DAMPER AT MAIN DUCT TO REDUCE FLEXIBLE DUCT TO A MAXIMUM LENGTH OF 8 FEET. THE FLEXIBLE DUCT SHALL BE UL 181 RATED. MINIMUM INSTALLED R-VALUE = R-6.
13. PROVIDE SPIN-IN CONE WITH LOCKING DAMPER AT EACH FLEXIBLE DUCT RUN OUT CONNECTING SUPPLY DUCT TO DIFFUSER. PROVIDE DAMPER EXTENSIONS TO ACCOMMODATE EXTERNAL INSULATION.
14. COORDINATE WITH ALL TRADES INVOLVED. PROVIDE OFFSETS AND TRANSITIONS AROUND OBSTRUCTIONS AT NO ADDITIONAL COST TO THE OWNER.
15. REFER TO TYPICAL DETAILS FOR INSTALLATION OF EQUIPMENT.
16. ALL FINISHES DAMAGED OR REMOVED FOR THE INSTALLATION OF WORK SHALL BE REPLACED TO MATCH ADJACENT FINISHES.
17. ALL PIPE PENETRATIONS THROUGH FIRE WALLS TO BE AIR TIGHT AND SEALED WITH FIRE-PROOF SEALANT. ALL DUCT PENETRATIONS THROUGH FIRE WALLS TO BE PROVIDED WITH FIRE DAMPERS INSTALLED IN ACCORDANCE WITH NFPA.
18. LOAD CALCULATIONS ARE BASED ON TRANE TRACE COMPUTER PROGRAM. ALL OUTSIDE AIR CALCULATIONS ARE BASED ON FLORIDA MECHANICAL BUILDING CODE.
19. OUTDOOR DESIGN AMBIENT FOR ALL EQUIPMENT IS 95 DEGREES FdB/ 77 DEGREES FwB IN SUMMER AND 32 DEGREES FAHRENHEIT IN WINTER.
20. SET ALL HVAC SUPPLY, RETURN, AND EXHAUST SYSTEM AIR FLOW RATE TOLERANCES TO WITHIN PLUS 10 PERCENT (10%) OR MINUS ZERO PERCENT (0%).
21. MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER.



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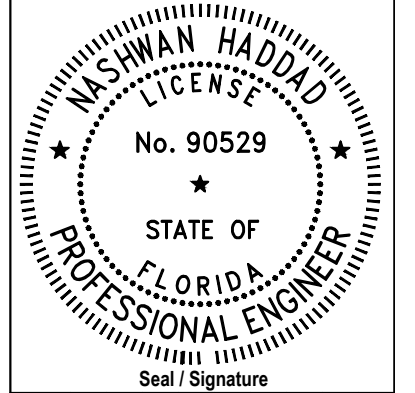
HADDAD ENGINEERING, INC.
300 HARVETTS ROAD, SUITE 200 JACKSONVILLE, FLORIDA 32227
TEL: (904) 362-2666 CERTIFICATE OF AUTHORIZATION NO. 0000



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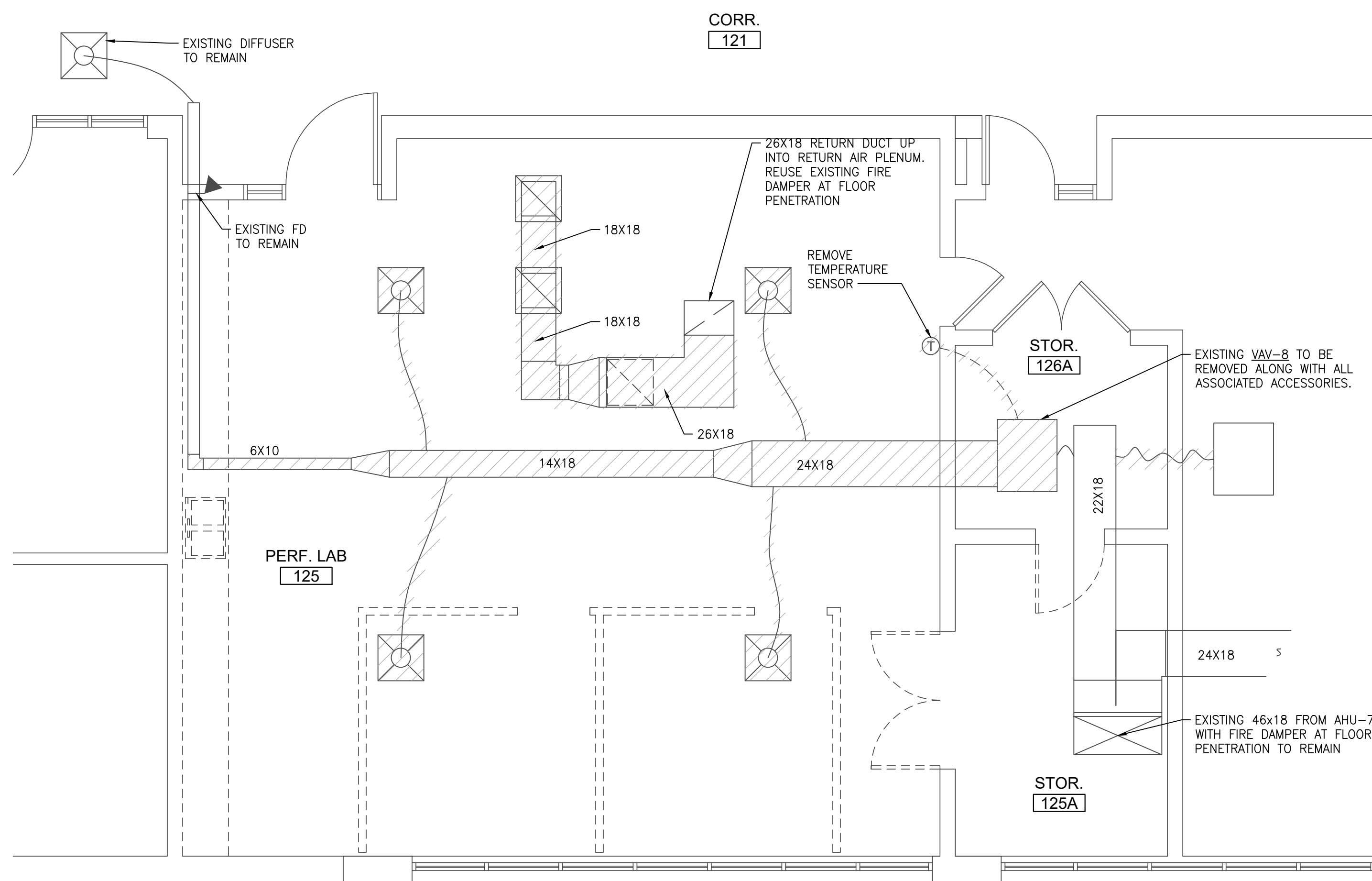


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MECHANICAL NOTES, SCHEDULE, DETAILS AND LEGEND

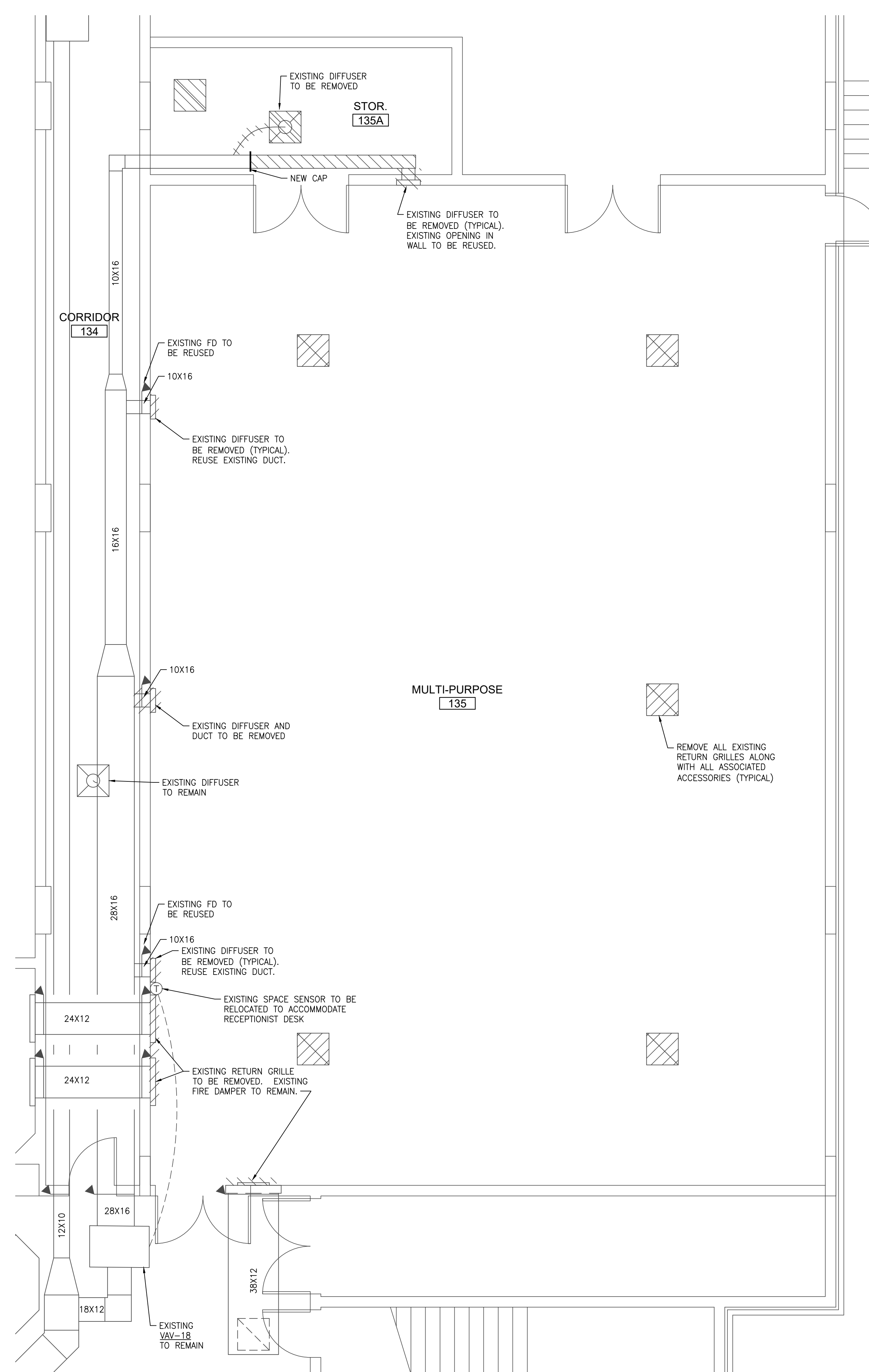
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C.B.: NH
JOB NO.: 202102

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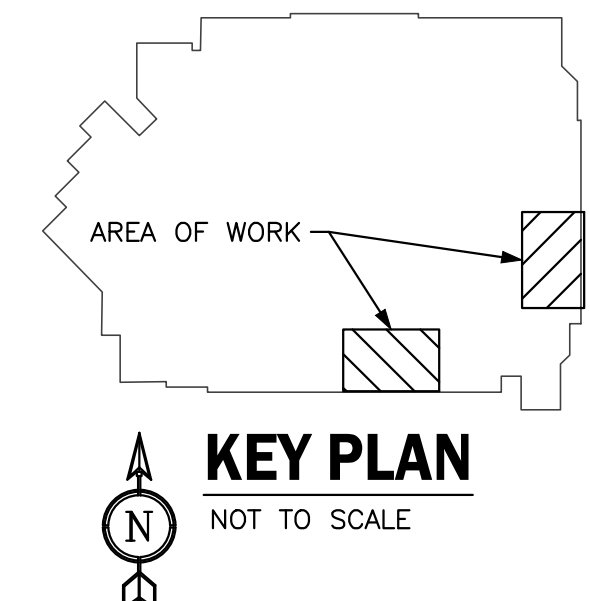
PARTIAL FIRST FLOOR PLAN - MECHANICAL DEMO

GRAPHIC SCALE 1/4" = 1'-0"



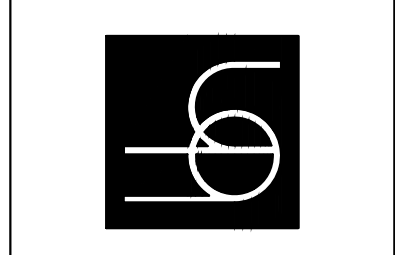
PARTIAL FIRST FLOOR PLAN - MECHANICAL DEMO

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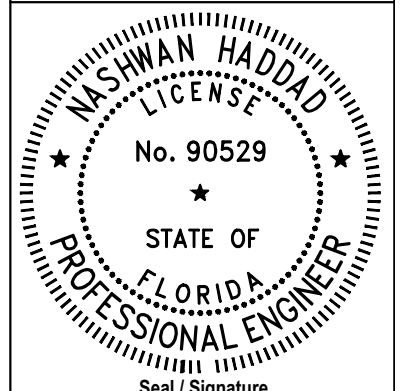


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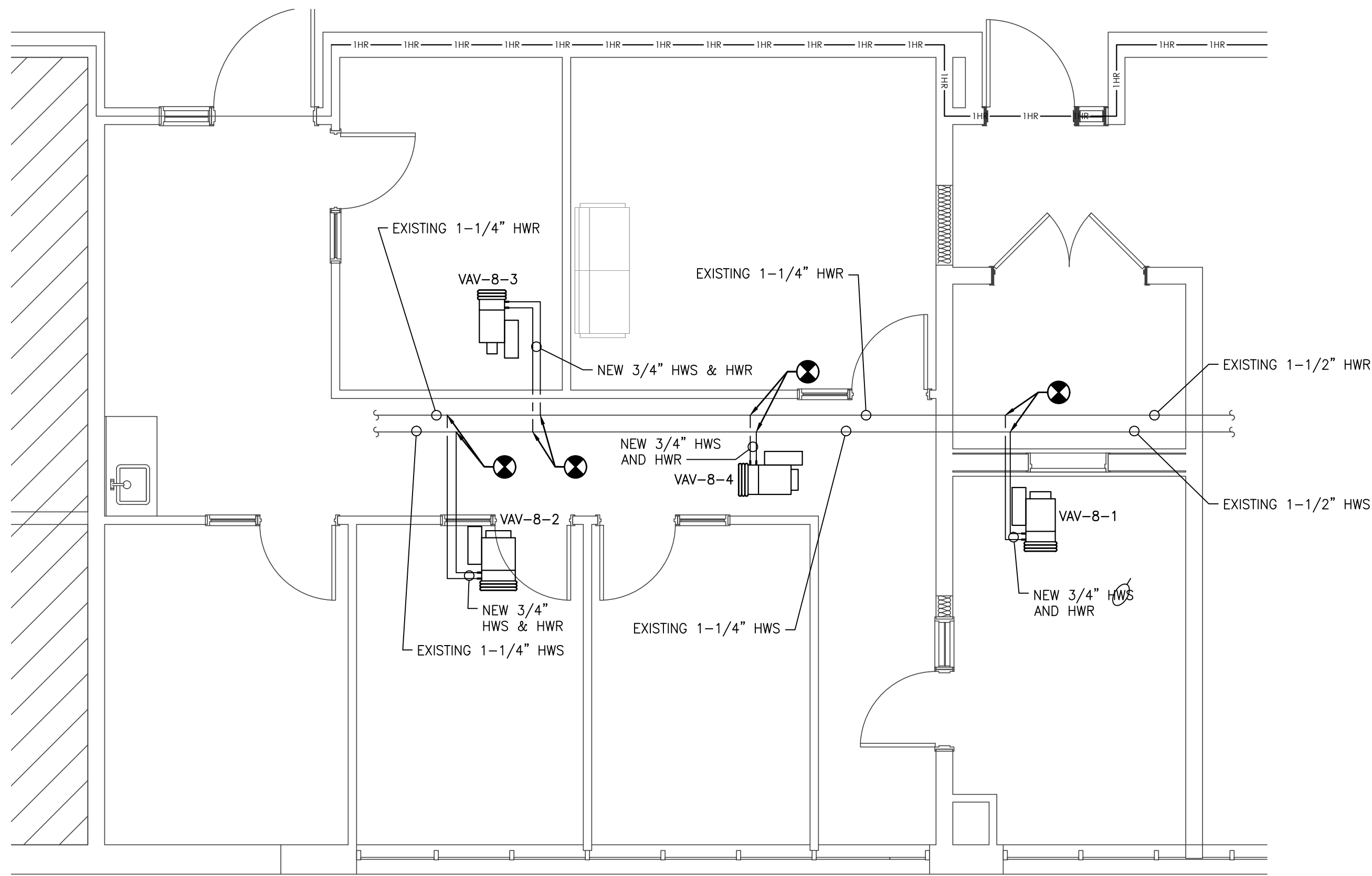
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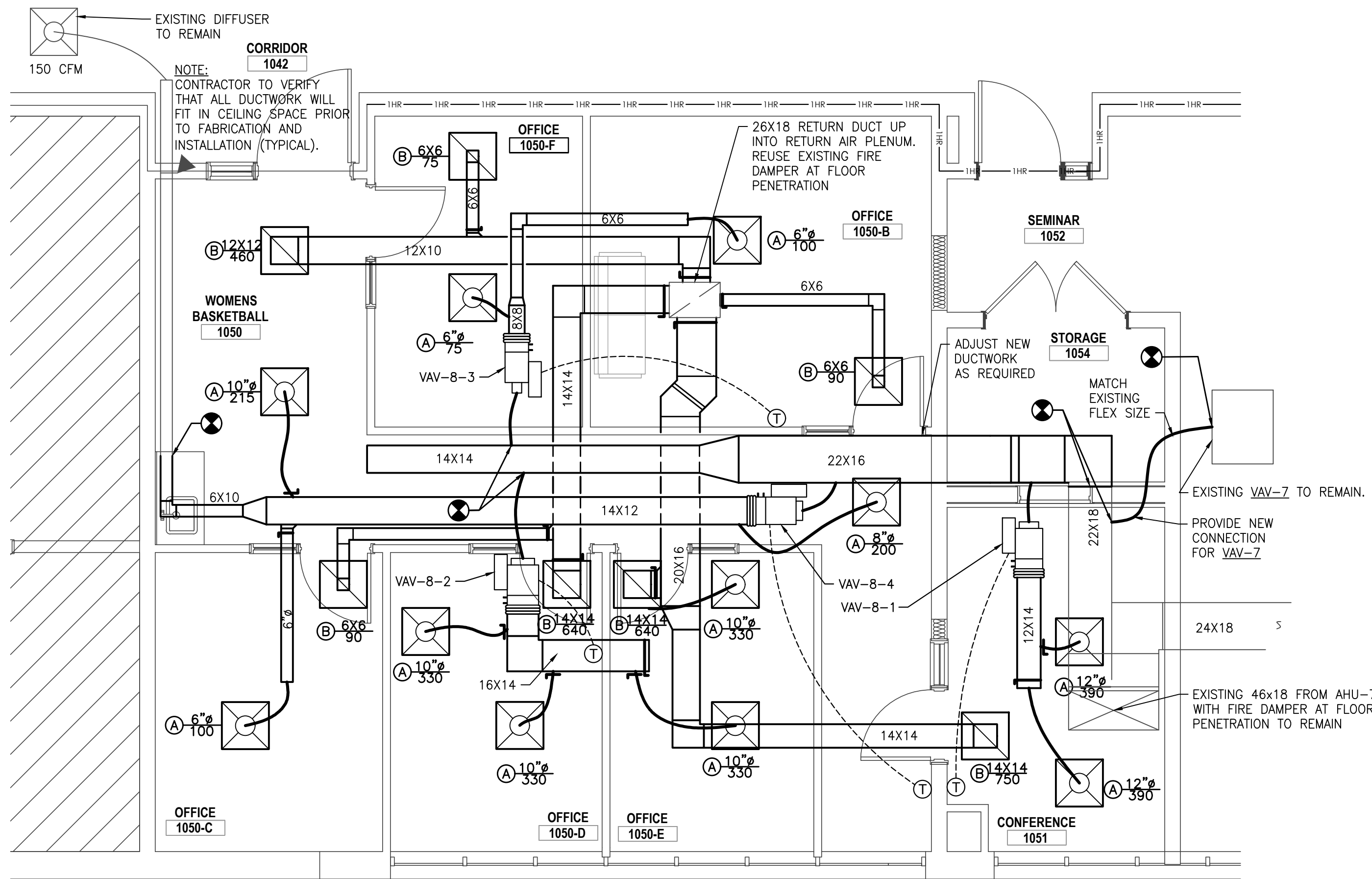
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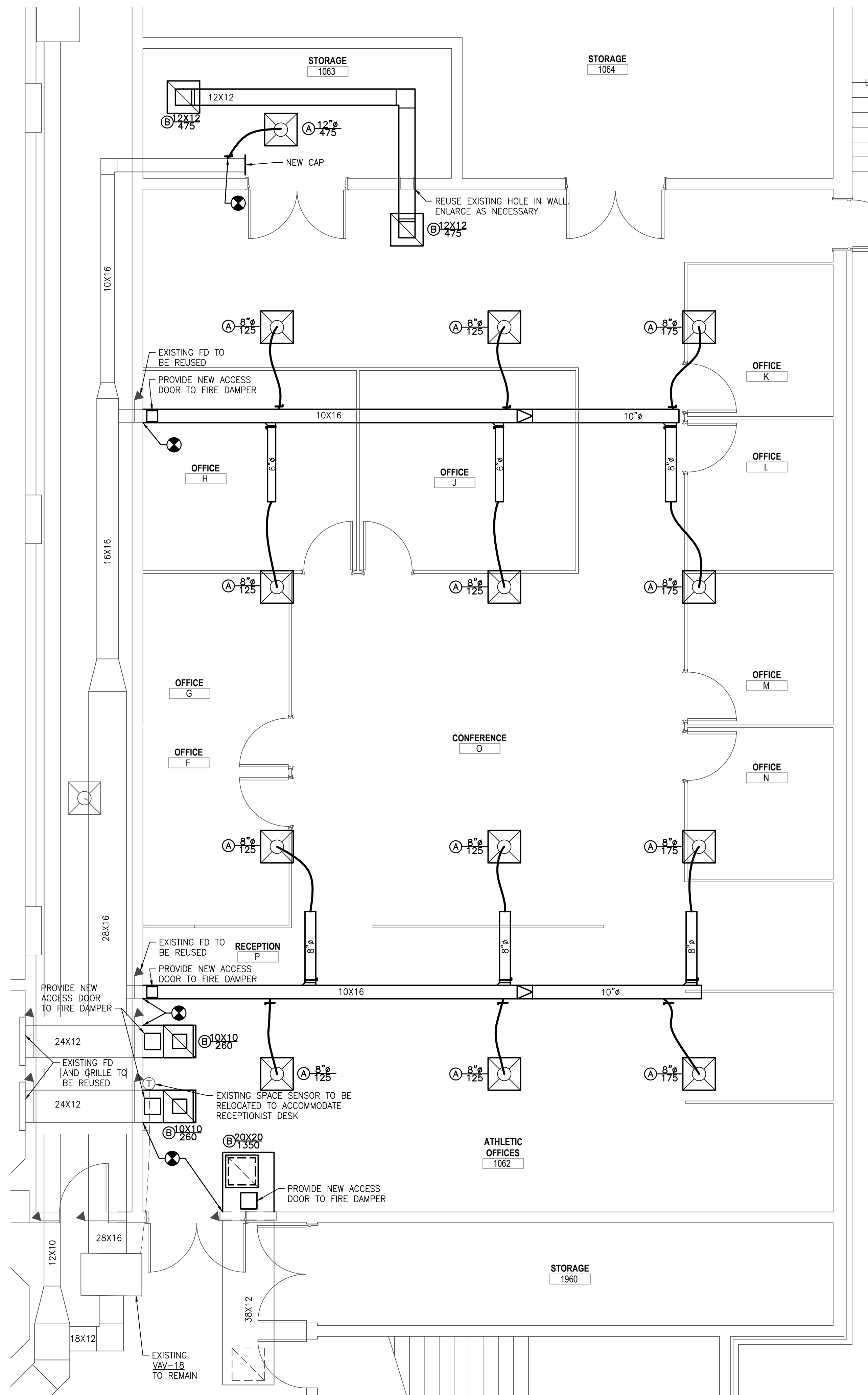
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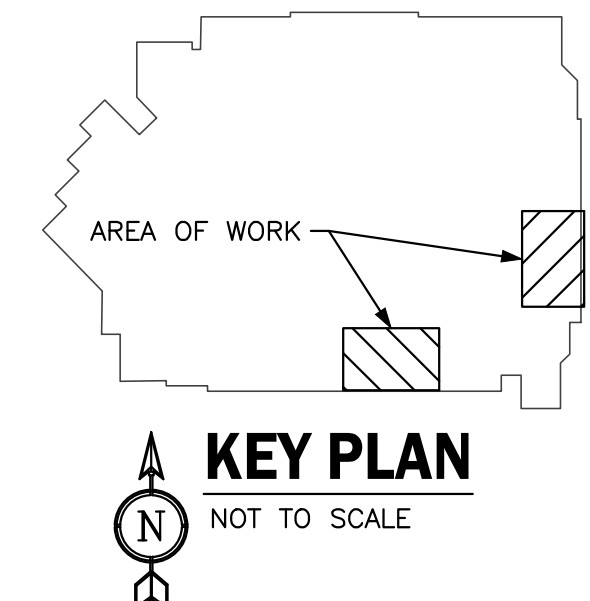
PARTIAL FIRST FLOOR PLAN - NEW MECHANICAL PIPING
 GRAPHIC SCALE 1/4" = 1'-0"



PARTIAL FIRST FLOOR PLAN - NEW MECHANICAL
 GRAPHIC SCALE 1/4" = 1'-0"



PARTIAL FIRST FLOOR PLAN - NEW MECHANICAL
 GRAPHIC SCALE 1/4" = 1'-0"



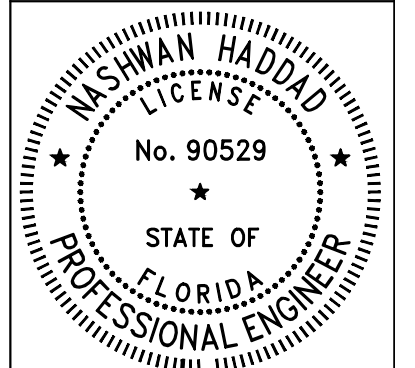
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 900 UNIVERSITY ROAD, SUITE 200 JACKSONVILLE, FLORIDA 32257 TEL: (904) 262-5066 CERTIFICATE OF AUTHORIZATION NO. 4600



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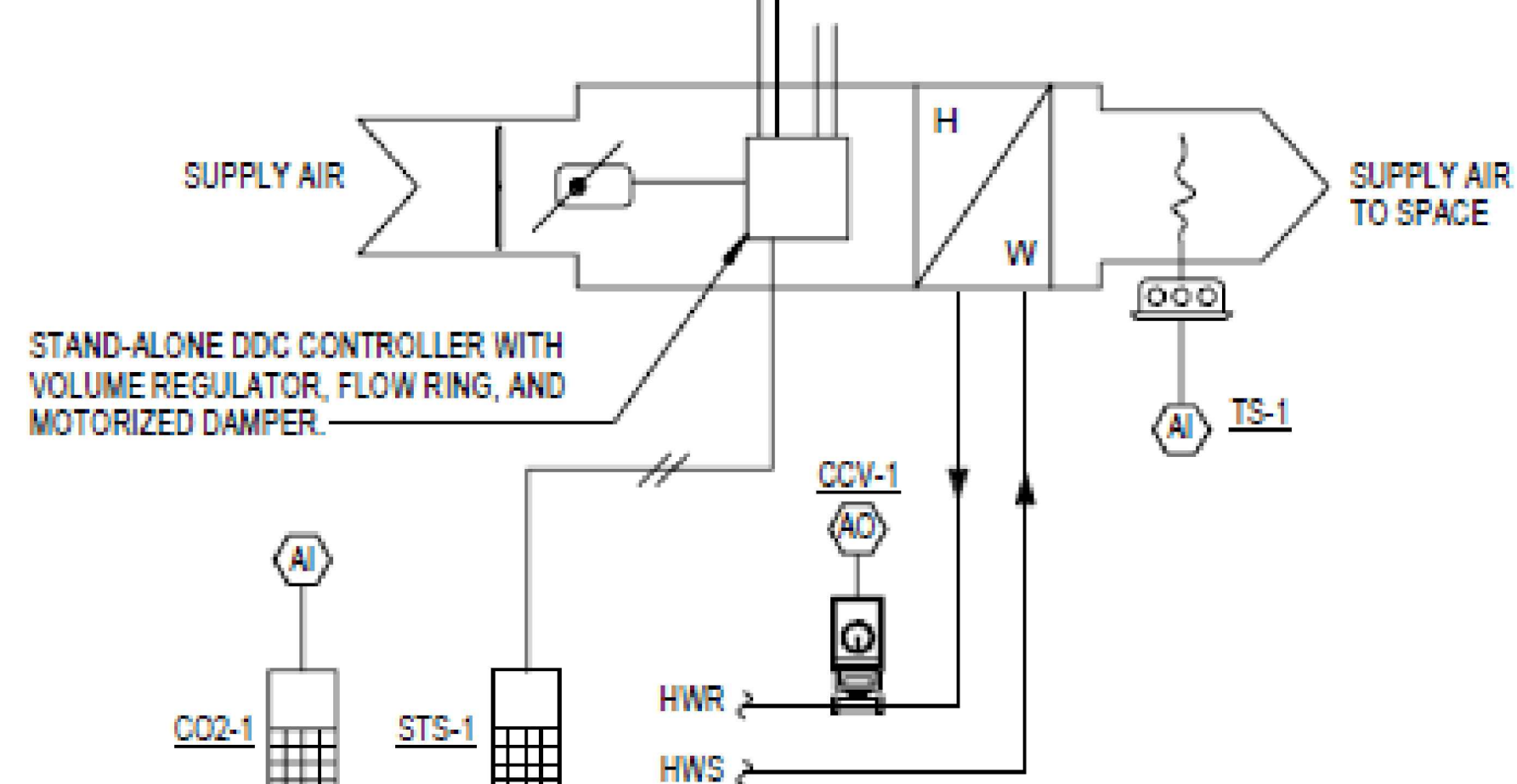
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MECHANICAL FLOOR PLAN - NEW
 DATE: 05/17/21
 D.B.: NH
 C.B.: NH
 JOB NO.: 202102
M3.0
 100%

COMM. LINE TO NEXT TERMINAL UNIT ← → COMM. LINE FROM ADJ. TERMINAL UNIT



- A. GENERAL RUN CONDITIONS:**
a. PRESSURE INDEPENDENT CONTROL WHEN SPACE IS OCCUPIED
- B. OCCUPIED MODE:**
a. CONTROL PRIMARY AIR DAMPER BETWEEN MIN/MAX CFM SETPOINTS
b. HOT WATER CONTROL VALVE MODULATE TO MAINTAIN SPACE SETPOINT UP TO 85F.
c. IF BOX DISCHARGE AIR TEMPERATURE REACHES 85F, THEN THE BOX MINIMUM CFM WILL RESET UP TO THE HEATING CFM UNTIL THE SPACE SETPOINT IS SATISFIED.
- C. UNOCCUPIED MODE**
a. WHEN SPACE IS UNOCCUPIED
b. MINIMUM SETPOINT RESET TO UNOCCUPIED MODE MINIMUM SETPOINT(ADJ.)
c. SPACE COOLING SETPOINT RESET TO UNOCCUPIED MODE COOLING SETPOINT(ADJ.)
d. SPACE HEATING SETPOINT RESET TO UNOCCUPIED MODE HEATING SETPOINT(ADJ.)
- D. DEMAND RESET - CO2**
a. CO-2 SENSED IN DENSLEY OCCUPIED SPACES(CONFERENCE ROOMS, DINING)
b. VAV BOX FLOW SETPOINT WILL BE RESET TO MAINTAIN CO-2 LEVELS 800 PPM ABOVE AMBIENT CO-2 LEVELS.

- SETPOINTS(ADJUSTABLE)
- OCCUPIED**
COOLING SPACE TEMP(*F)
HEATING SPACE TEMP(*F)
MIN AIRFLOW
MAX AIRFLOW
HEATING AIRFLOW
DISCHARGE AIR TEMP SETPOINT
HIGH/LOW SPACE RH(WHERE SPACE RH SENSORS ARE INSTALLED)
CO-2
- ALARMS**
HIGH SPACE TEMP
LOW SPACE TEMP
HIGH DISCHARGE AIR TEMP
LOW DISCHARGE AIR TEMP
HIGH SPACE RH(WHERE SPACE RH SENSORS ARE INSTALLED)
HIGH CO2 LEVELS (+10%) ABOVE SETPOINT

CONTROLS – VAV HW REHEAT

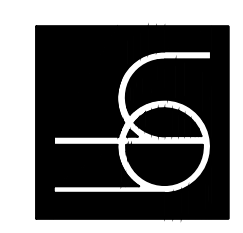
CONTROLS GENERAL NOTES:

1. TIE NEW UNIT CONTROLS INTO CAMPUS BAS. PROVIDE ALL PROGRAMMING AND GRAPHICS REQUIRED.
2. AMBIENT CO2 LEVELS ARE MEASURED FROM CENTRAL SENSOR, ACCESSED VIA CAMPUS BAS
3. OCCUPIED / UNOCCUPIED MODES SHALL BE BASED ON BUILDING SCHEDULE
4. EVENT MODE SHALL BE INITIATED AND ENDED BY MANUAL OVERRIDE.
5. BUILDING PRESSURE WILL BE MONITORED AT SEVERAL LOCATIONS. BUILDING PRESSURIZATION WILL BE CONTROLLED BY MAINTAINING A POSITIVE OFFSET BETWEEN THE SUM OF THE OUTDOOR AIR SETPOINTS AND EXHAUST SETPOINTS AT ALL TIMES.
6. DURING EVENTS, THE DESIGN INTENT IS FOR ALL UNITS TO PROVIDE FULL OUTDOOR AIR FLOW FOR MAXIMUM VENTILATION. ALL EXHAUST FANS WILL RAMP TO MAXIMUM FLOW AND PRESSURE RELIEF FANS WILL STAGE ON TO MAINTAIN THE BUILDING DIFFERENTIAL FLOW SETPOINT.
7. THE DESIGN DIFFERENTIAL BETWEEN OUTDOOR AIR AND EXHAUST AIR IS 5,000 CFM (ADJUSTABLE). THIS IS AN ESTIMATE AND WILL HAVE TO BE TWEAKED DURING STARTUP SO THAT DOORS DO NOT STAND OPEN OR DOORS ARE NOT DIFFICULT TO OPEN.

CONTROLS – GENERAL NOTES

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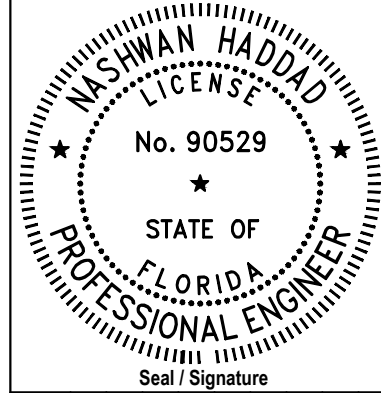
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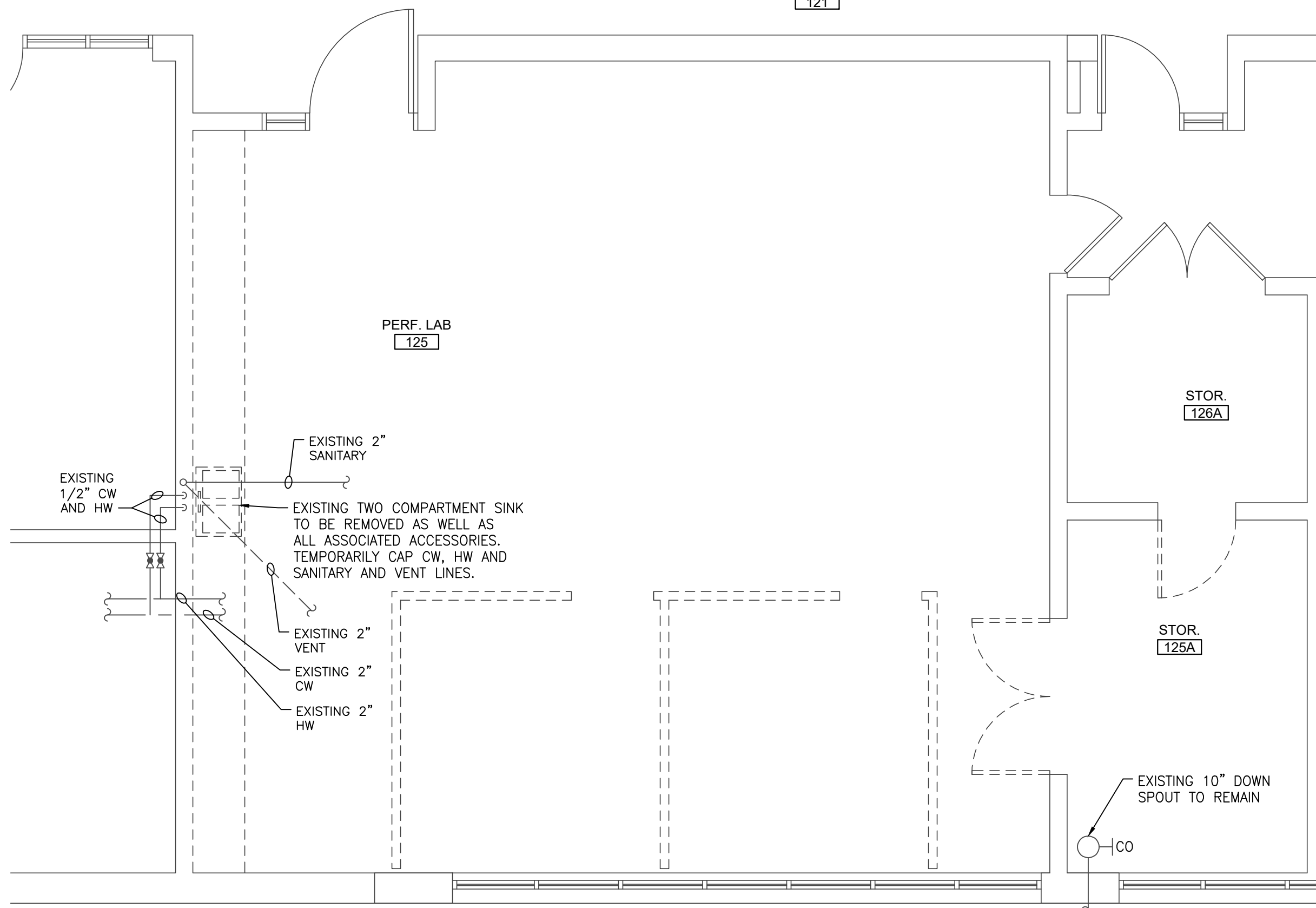
Revision	Date

MECHANICAL CONTROLS

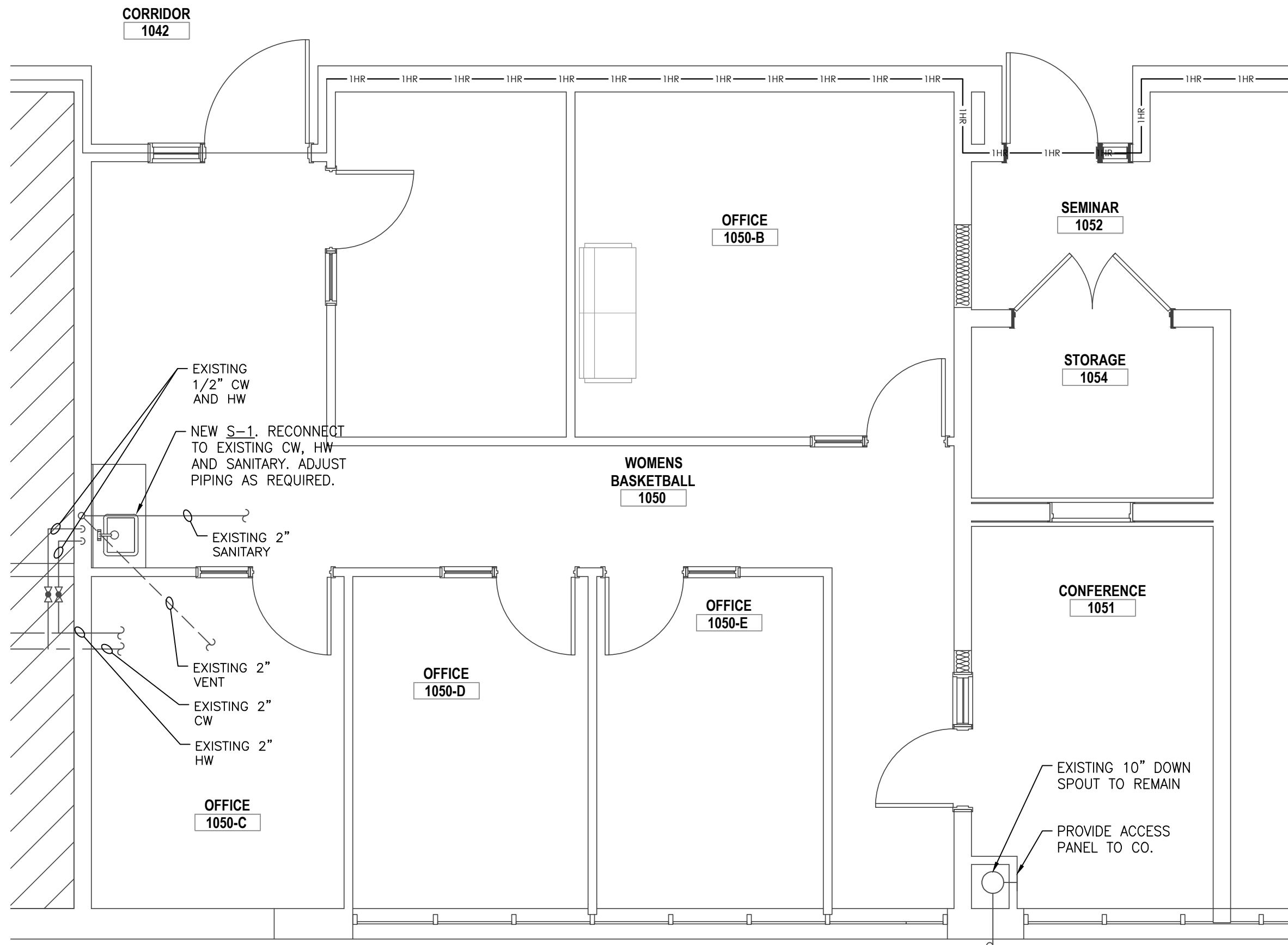
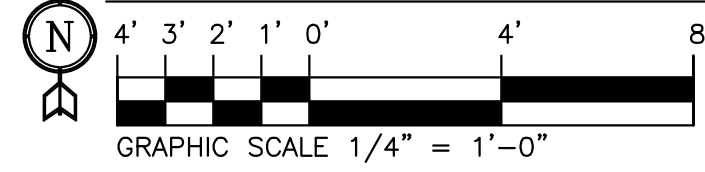
DATE: 05/17/21
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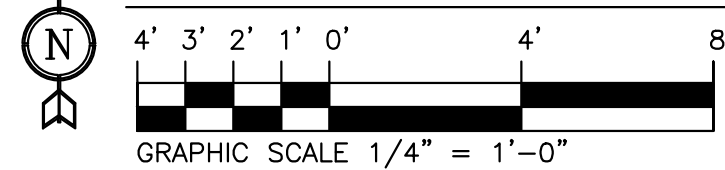
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DEMO PARTIAL FIRST FLOOR PLAN - PLUMBING



NEW PARTIAL FIRST FLOOR PLAN - PLUMBING



BASIS OF DESIGN

- S-1 SINK (22"x19-1/2"x5-1/2") ELKAY LUSTERTONE MODEL LRAD221955 - 18"x14"x5-1/2" SINGLE COMPARTMENT. SINK SHALL BE FABRICATED OF 18 GAUGE, TYPE 304 STAINLESS STEEL WITH INTERIOR AND TOP SURFACES POLISHED AND THE UNDERSIDE OF THE BOWLS SOUND DEADENED. SINK SHALL BE PROVIDED AND DRILLED FOR THE FOLLOWING ACCESSORY ITEMS:
- A. CHICAGO FAUCETS MODEL 786-E29ABCP DECK MOUNTED GOOSENECK FAUCET.
 - B. 1-1/2" BASKET STRAINER WITH TAILPIECE.
 - C. LOOSE KEY STOPS AND VERTICAL SUPPLY TUBES.
 - D. 1-1/2" P-TRAP AND TUBING OUTLET.

PLUMBING LEGEND

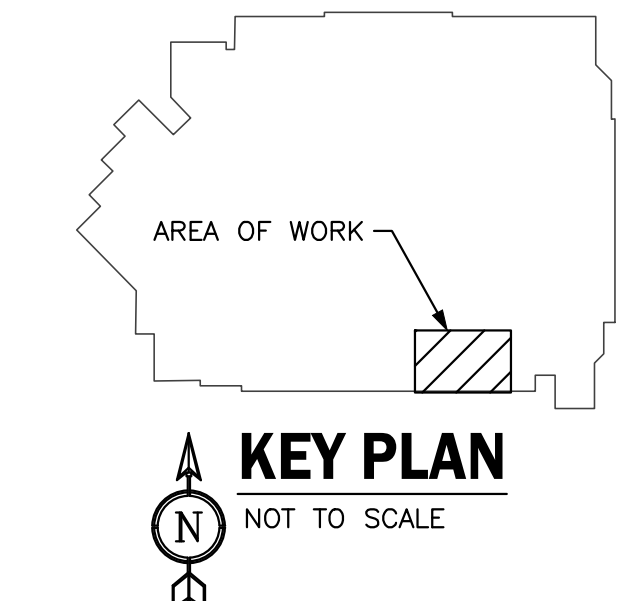
- DOMESTIC COLD WATER PIPING
- DOMESTIC HOT WATER PIPING
- VENT PIPING
- WASTE PIPING(SANITARY SEWER)
- PIPE TURNING DOWN
- PIPE TURNING UP
- P-1 FIXTURE DESIGNATION
- CW COLD WATER
- HW HOT WATER
- POINT OF NEW CONNECTION

PLUMBING GENERAL NOTES

1. THE DRAWINGS ARE PARTLY DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW IN DETAIL ALL FEATURES OF THE WORK. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE SPECIFICATIONS, THE DRAWINGS AND LOCAL GOVERNING CODES.
2. CONTRACTORS SHALL REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
3. CONTRACTOR SHALL VISIT SITE AND VERIFY EXISTING ITEMS PRIOR TO BIDDING AND ADVISE ARCHITECT OF ANY DISCREPANCIES.
4. ITEMS SHOWN AS PROVIDED UNDER ANOTHER DIVISION SHALL BE CONNECTED IN THIS WORK. OBTAIN EXACT ROUGH-IN INFORMATION BEFORE CONSTRUCTION ON ALL ITEMS REQUIRING PLUMBING CONNECTIONS.
5. ALL CUTTING & PATCHING OF EXISTING FLOORS, WALL, CEILINGS, ETC. SHALL BE COORDINATED BY THE GENERAL CONTRACTOR OR AT HIS DIRECTION. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AFTER EACH SESSION.
6. THE WORK UNDER THIS SECTION OF THE SPECIFICATIONS INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE THE PLUMBING SYSTEM AS SHOWN ON THE DRAWINGS & HEREIN SPECIFIED. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER IN ACCORDANCE WITH GOOD PRACTICE, MANUFACTURER'S RECOMMENDATIONS AND THE DEPARTMENT OF PUBLIC HEALTH.
7. FURNISH (1) ONE YEAR SERVICE AND GUARANTEE ON ALL LABOR, MATERIALS AND EQUIPMENT.
8. OFFSET PIPING TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHINGS, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC.
9. ALL VENTS THRU ROOF SHALL BE INSTALLED A MINIMUM OF 10'-0". FROM ALL FRESH AIR INTAKE TO AIR HANDLING EQUIPMENT AND OFFSET MINIMUM OF 3'-0" FROM EDGE OF ROOF LINE AND PARAPETS.
10. INDIRECT WASTE PIPING FROM EQUIPMENT, WHICH PRODUCES A COLD WASTEWATER, (SUCH AS CONDENSATE DRAINS, ETC.) SHALL BE INSULATED WITH 1/2" ARMAFLEX INSULATION. SEAL ALL LONGITUDINAL AND BUTT JOINTS WITH ADHESIVE APPROVED BY THE INSULATION MANUFACTURER.
11. PROVIDE FLEX-LINE FOR FINAL CONNECTIONS TO EQUIPMENT ITEMS.
12. ALL TESTING & STERILIZATION SHALL COMPLY W/LOCAL GOVERNING CODES & RECOMMENDATION OF THE AMERICAN WATER WORKS ASSOC. ALL PLUMBING TESTS SHALL BE WITNESSED BY THE PLUMBING INSPECTOR, AND A COPY OF THE DISINFECTION REPORT SHALL BE PROVIDED TO THE PLUMBING INSPECTOR.
13. PROVIDE CHROME PLATED ESCUTCHEON PLATES FOR ALL EXPOSED PIPE PASSING THRU WALLS, FLOORS, OR CEILINGS. ALL EXPOSED PIPING AND FITTINGS SHALL BE CHROME PLATED AS WELL.
14. HOT & COLD WATER SUPPLIES TO EACH INDIVIDUAL OR GROUP OF PLUMBING FIXTURES SHALL BE FITTED WITH AIR CHAMBERS OF AMPLIFIED SIZE TO PREVENT WATER HAMMER. AIR CHAMBERS SHALL NOT BE LESS THAN 12" LENGTH. WATER HAMMER ARRESTORS, ZURN SHOKTROL SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATION, WILL ALSO BE ACCEPTABLE.
15. PIPE HANGERS SHALL BE ADJUSTABLE TEARDROP TYPE HANGER AND RODS. GRINNELL OR EQUAL.
16. PROVIDE ALL STOPS, TRAPS, ESCUTCHEONS, CONNECTIONS, CARRIERS, ETC., FOR ALL FIXTURES AS NECESSARY TO COMPLETE THE INSTALLATION OF EACH FIXTURE, WHETHER SUCH ITEMS ARE LISTED OR NOT.
17. PURPLE PRIMER CONFORMING TO ASTM F656 SHALL BE USED FOR ALL SCHEDULE 40 OR 80 PVC/CPVC SANITARY, VENT AND WATER PIPING.
18. ALL FURNISHED EXPOSED FAUCETS; TRAPS CONNECTING PIPING, STOPS AND OTHER FIXTURE TRIM SHALL BE CHROME-PLATED BRASS UNLESS OTHERWISE SPECIFIED. ALL FASTENING SHALL BE CHROME-PLATED BRASS OR MAY BE 302 STAINLESS STEEL IF OF MATCHING COLOR AND FINISH.
19. GENERAL CONTRACTOR SHALL HIRE A SURVEY/LOCATOR COMPANY TO LOCATE/IDENTIFY ALL UNDERGROUND PIPING, ETC.
20. ALL FITTINGS SHALL BE INSTALLED BY NO LESS THAN A JOURNEYMAN LEVEL PLUMBER.
21. NO HORIZONTAL DOUBLE-WYE FITTINGS ARE ACCEPTABLE.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NASHWAN HADDAD ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



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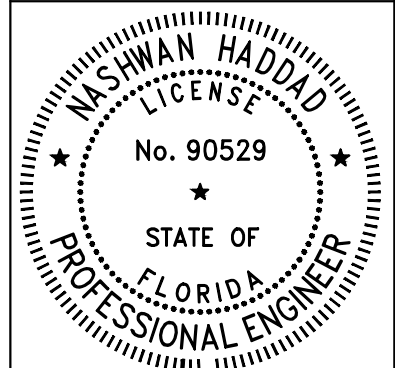
HADDAD ENGINEERING, INC.
100 UNIVERSITY PARK SUITE 200 JACKSONVILLE, FLORIDA 32257 TEL: (904) 262-5066 CERTIFICATE OF AUTHORIZATION NO. 4606



UNIVERSITY OF NORTH FLORIDA
ARENA OFFICE RELOCATION

11852 UNIVERSITY OF NORTH FLORIDA DRIVE
JACKSONVILLE, FLORIDA 32224

ENGINEER LICENSE NO.
NASHWAN HADDAD 90529



Revision	Date

PLUMBING FLOOR PLANS, NOTES AND LEGEND

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