

PLUMBING SYMBOLS SCHEDULE

| SYMBOL | ABBREV | DESCRIPTION |
|--------|-------------|---|
| | CW | COLD WATER |
| | HW | HOT WATER |
| | HWR | HOT WATER RECIRCULATION |
| | TW | TEMPERED WATER |
| | SAN | SANITARY SEWER |
| | PSAN | PUMPED SANITARY |
| | CV | CIRCUIT VENT |
| | CWBV | COMBINATION WASTE & VENT |
| | V | SANITARY VENT |
| | SD | STORM DRAIN, RAINWATER DRAIN |
| | PSD | PUMPED STORM DRAIN |
| | OFD | OVERFLOW ROOF DRAINAGE |
| | TP | TRAP PRIMER PIPING |
| | G | GAS |
| | GV | GAS VENT |
| | A | COMPRESSED AIR |
| | [xxxx"] HW | HOT WATER [xxxx"] |
| | [xxxx"] HWR | HOT WATER RETURN [xxxx"] |
| | LA | LABORATORY COMPRESSED AIR |
| | LV | LABORATORY VACUUM |
| | RO | REVERSE OSMOSIS WATER |
| | DI | DISTILLED WATER |
| | DE | DEIONIZED WATER |
| | AW | ACID WASTE |
| | AV | ACID VENT |
| | GW | GREASE WASTE |
| | OW | OIL LADEN WASTE |
| | MA | MEDICAL COMPRESSED AIR |
| | MV | MEDICAL VACUUM |
| | OX | OXYGEN |
| | N | NITROGEN |
| | NO | NITROUS OXIDE |
| | WAGD | WASTE ANESTHESIA GAS DISPOSAL |
| | CO2 | CARBON DIOXIDE |
| | F | FIRE PROTECTION WATER SUPPLY |
| | SP | AUTOMATIC FIRE SPRINKLER |
| | ASD | AUTOMATIC FIRE SPRINKLER SYSTEM DRAIN |
| | | ELBOW TURNED UP |
| | | ELBOW TURNED DOWN |
| | | TEE TURNED UP |
| | | TEE TURNED DOWN |
| | | PIPE UNION |
| | | FLEXIBLE PIPE CONNECTION |
| | | PIPE ANCHOR |
| | | PIPE GUIDE |
| | EXC | EXPANSION COMPENSATOR |
| | | FLOW ARROW |
| | GA | GATE VALVE |
| | BF | BUTTERFLY VALVE |
| | CK | CHECK VALVE |
| | CBL | CALIBRATED BALANCING VALVE |
| | TCBV | THERMOSTATICALLY CONTROLLED BALANCING VALVE |
| | BA | BALL VALVE |
| | PL | PLUG VALVE |
| | R | GAS REGULATOR |

PLUMBING SYMBOLS SCHEDULE

| SYMBOL | ABBREV | DESCRIPTION |
|---|--------|---|
| | | GAS COCK |
| | | BACKFLOW PREVENTER |
| | CO | CLEANOUT FLUSH IN FLOOR |
| | WCO | WALL CLEANOUT FLUSH IN WALL |
| | WHA-I | WATER HAMMER ARRESTER (PDI TYPE) |
| | PRV | PRESSURE REDUCING VALVE |
| | PS | PRESSURE SWITCH |
| | TS | VALVE WITH TAMPER SWITCH |
| | FS | VALVE WITH FLOW SWITCH |
| | | UPRIGHT FIRE SPRINKLER HEADS |
| | | PENDANT FIRE SPRINKLER HEADS |
| | | SIDEWALL FIRE SPRINKLER HEADS |
| | FHR | FIRE HOSE RACK |
| | FHC | FIRE HOSE CABINET (SURFACE MTD.) |
| | FHC | FIRE HOSE CABINET (RECESSED) |
| | FVC | FIRE VALVE CABINET |
| | FH | FIRE HYDRANT |
| | FDC | FIRE DEPARTMENT CONNECTION |
| | | MEDICAL GAS OUTLET |
| | I VS | MEDICAL VACUUM SLIDE BRACKET |
| | | THERMOMETER |
| | | PRESSURE GAGE |
| | | Y STRAINER WITH BLOWDOWN VALVE |
| | WH | WALL HYDRANT |
| | HB | HOSE BIBB |
| | FD | FLOOR DRAIN |
| | FS | FLOOR SINK |
| | RD | ROOF DRAIN |
| | OFD | OVERFLOW ROOF DRAIN, EMERGENCY ROOF DRAIN |
| | OFDN | OVERFLOW DRAIN NOZZLE |
| | | CIRCULATOR |
| | AP | ACCESS PANEL |
| | AD | ACCESS DOOR |
| | 8'-0" | DISTANCE FROM FLOOR TO BOTTOM OF OBJECT |
| | | CONNECT TO EXISTING |
| | | POINT OF DEMOLITION |
| | TXFR | AUTOMATIC FIXTURE TRANSFORMER |
| RISER TYPE → → RISER NUMBER | | |
| REFERENCE NUMBER → → SHEET CROSS REFERENCE | | |
| SECTION REFERENCE LETTER → → DIRECTION OF VIEW → SHEET CROSS REFERENCE | | |

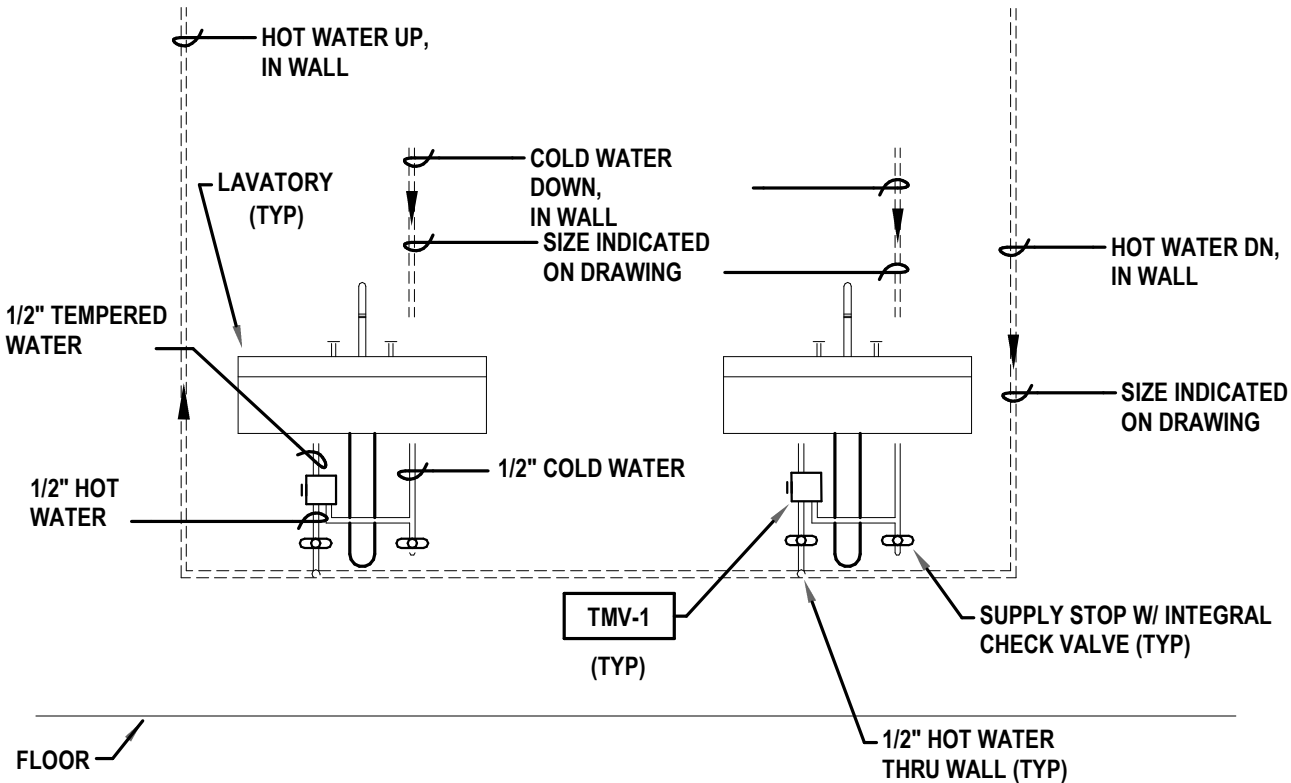
PLUMBING FIXTURE SCHEDULE VOL 2

| DESIG | DESCRIPTION | CW | HW | TW | SAN | VENT |
|-------|---|------|------|------|--------|--------|
| 2"FS | FLOOR SINK | - | - | - | 2" | 2" |
| 3"FD | FLOOR DRAIN | - | - | - | 3" | - |
| 4"FD | FLOOR DRAIN | - | - | - | 4" | - |
| L-1" | LAVATORY: ADA, OVAL UNDERMOUNT, MANUAL FAUCET. | 1/2" | 1/2" | 3/8" | 1-1/4" | 1-1/4" |
| RH | ROOF HYDRANT | 1/2" | - | - | - | - |
| SK-1" | SINK: STAINLESS STEEL, SPEED BAR. | 1/2" | 1/2" | 3/8" | 1-1/2" | 1-1/2" |
| UR-1 | URINAL | 3/4" | - | 2" | 2" | 2" |
| WC-1 | WATER CLOSET: ADA, MANUAL FLUSH VALVE, FLOOR SET. | 1" | - | - | 4" | 2" |
| WH | WALL HYDRANT | 1/2" | - | - | - | - |

* WITH TMV-1

PLUMBING EQUIPMENT SCHEDULE

| SYMBOL | DESCRIPTION |
|--------|--|
| TMV-1 | THERMOSTATIC MIXING VALVE: 1.0 GPM @ 15 PSI PRESSURE DROP ACROSS VALVE (FLOW RANGE 0.25-2.25 GPM), SET OUTLET TEMPERATURE @ 110° F |



NOTES:
1. DETAIL SHOWS TWO FIXTURES TO ILLUSTRATE TYPICAL LOOPED PIPING IN WALL TO SERVE MULTIPLE FIXTURES. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION AND QUANTITY OF FIXTURES.

DETAIL 2
NO SCALE
HOW WATER LOOP FOR GANG LAVATORY

GENERAL NOTES (APPLY TO ALL DRAWINGS):

- COMPLY WITH LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.
- PLAN DOCUMENTS ARE SCHEMATIC TO CONVEY THE DESIGN INTENT. DO NOT SCALE DRAWINGS FOR EXACT PLACEMENT OF EQUIPMENT AND DISTRIBUTION SYSTEMS.
- COORDINATION BETWEEN DISCIPLINES IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR AND/OR CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. IN A CASE OF A CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS, REQUEST A DOCUMENTED INTERPRETATION FROM THE ARCHITECT / ENGINEER.
- INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSURANCE UNDERWRITER REQUIREMENTS.
- THE LINE TYPE AND SYMBOLS LEGENDS SHOW ITEMS TYPICALLY INCLUDED WITH THE SPECIFIED SYSTEMS. NOT ALL SYMBOLS AND/OR LINE TYPES ARE UTILIZED.
- INCLUDE DETAILS IN THE SCOPE OF WORK FOR EVERY SITUATION TO WHICH THAT DETAIL APPLIES EXCEPT WHERE A SPECIFIC DETAIL REFERENCE IS DESIGNATED TO INDICATE OTHERWISE.
- EXISTING PLUMBING EQUIPMENT, PIPING, AND FIXTURES SHALL REMAIN UNLESS NOTED OTHERWISE.
- SCHEDULE SYSTEM MODIFICATIONS TO MINIMIZE DISRUPTIONS TO EXISTING BUILDING SERVICES. COORDINATE SHUTDOWN REQUESTS PER SPECIFICATIONS AND OWNER REQUIREMENTS.
- LOCATE PIPING AS HIGH AS POSSIBLE, UNLESS NOTED OTHERWISE.
- SEAL PENETRATIONS THROUGH FIRE AND/OR SMOKE BARRIERS WITH AN APPROVED SYSTEM TO MAINTAIN THE INTEGRITY OF THE BARRIER AND SHALL BE MARKED APPROPRIATELY IN ACCORDANCE WITH SPECIFICATIONS.
- INSTALL EXTERIOR FUEL GAS REGULATORS AND METERS AT LEAST 10 FT FROM DOORS, OPERABLE WINDOWS, FRESH AIR OPENINGS, ETC.
- COORDINATE ROOF PENETRATIONS WITH THE ROOFING CONTRACTOR OR ROOF WARRANTY UNDERWRITER TO MAINTAIN ROOFING SYSTEM INTEGRITY.
- MINIMUM PLUMBING PIPING SIZE SHALL BE 1/2" UNLESS NOTED OTHERWISE.
- INSTALL FLEXIBLE CONNECTIONS BETWEEN ALL MOTORIZED EQUIPMENT AND THE CONNECTED SYSTEM. REFER TO SPECIFICATIONS FOR CONNECTION TYPE AND APPLICATION.
- PROVIDE ALL FUEL GAS PIPING WITH A SHUT OFF VALVE, UNION, AND DRIP LEG AT EACH CONNECTION TO GAS FIRE EQUIPMENT.
- SANITARY PIPING UNDERGROUND AND BENEATH SLAB ON GRADE SHALL BE NO LESS THAN 2" IN DIAMETER.
- COORDINATE INSPECTION AND TESTING REQUIREMENTS OF PIPING ENCLOSED IN CMU WALLS WITH AHJ PRIOR TO CONSTRUCTION. DURING CONSTRUCTION, DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT HAS BEEN INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.

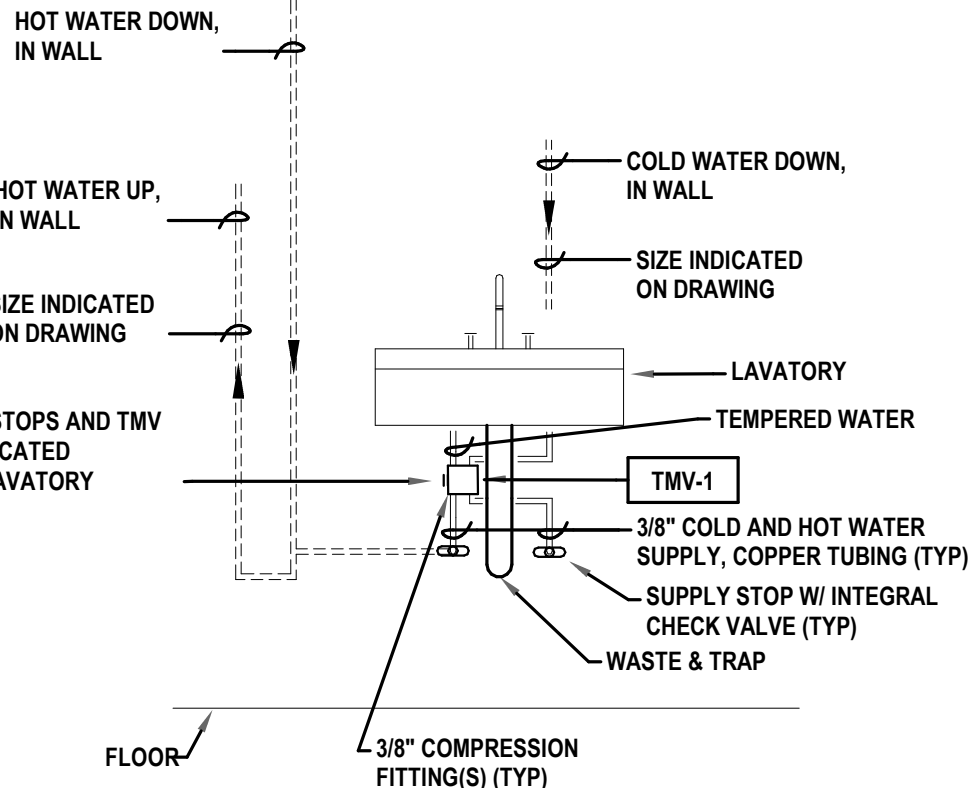
PLUMBING LINETYPE KEY

(APPLIES TO ALL PLUMBING SERVICES OR SYMBOLS)

| SYMBOL | DESCRIPTION |
|--------|--|
| | HEAVY LINEWEIGHT INDICATES PIPING AND EQUIPMENT TO BE FURNISHED UNDER THIS PROJECT |
| | THIN LINEWEIGHT INDICATES PIPING AND EQUIPMENT THAT ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE |
| | DASHED LINETYPE INDICATES PIPING AND EQUIPMENT THAT ARE EXISTING TO BE REMOVED, UNLESS NOTED OTHERWISE |

PLUMBING ABBREVIATIONS

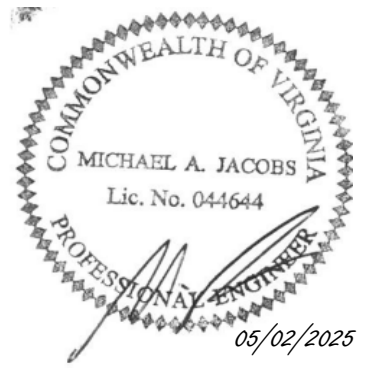
AB CL ABOVE CEILING
AT ST AT STRUCTURE
BL GD BELOW GRADE
AFF ABOVE FINISHED FLOOR
AFB ABOVE FINISHED GRADE
BJ BETWEEN JOIST
CFM CUBIC FEET PER MINUTE
RPM REVOLUTIONS PER MINUTE
CIP CAST IRON PIPE
Dia DIAMETER
EC ELECTRICAL CONTRACTOR
EQH EXTENDED COVERAGE HEAD
EX EXISTING
FPM FEET PER MINUTE
FT HD FEET OF HEAD
GC GENERAL CONTRACTOR
GPM GALLONS PER MINUTE
HC HEATING/HVAC CONTRACTOR
HP HORSEPOWER
KW KILOWATT
MC MECHANICAL CONTRACTOR
PC PLUMBING CONTRACTOR
PSIG POUNDS PER SQUARE INCH GAGE
RPM REVOLUTIONS PER MINUTE
S & WS SOIL & WASTE STACK
SV STACK VENT
TJ THRU JOIST
TR THROUGH ROOF
UN FL UNDER FLOOR
US S UNDERSIDE STEEL
UNO UNLESS NOTED OTHERWISE
VTR VENT THRU ROOF
WS WASTE STACK



DETAIL 1
NO SCALE
HOW WATER LOOP FOR LAVATORY

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DRAWING TITLE:
**SYMBOLS &
GENERAL
NOTES -
PLUMBING**

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DATE: **2 MAY 2025**

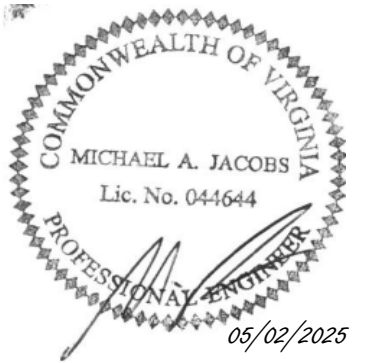


NOTES

- 1 REMOVE LAVATORY, FAUCET, ASSOCIATED PIPING, AND APPURTENANCES. CAP HOT WATER, COLD WATER, AND VENT ABOVE CEILING AT BRANCH CONNECTIONS TO MAINS. CAP SANITARY UNDER FLOOR.
- 2 REMOVE URINAL, ASSOCIATED PIPING, AND APPURTENANCES. CAP COLD WATER ABOVE CEILING AT BRANCH CONNECTIONS TO MAINS. CAP SANITARY UNDER FLOOR.
- 3 REMOVE WATER CLOSET, ASSOCIATED PIPING, AND APPURTENANCES. CAP COLD WATER ABOVE CEILING AT BRANCH CONNECTION TO MAINS. CAP SANITARY UNDER FLOOR.
- 4 REMOVE BACKFLOW PREVENTER, HOSE BIBB, ASSOCIATED PIPING AND APPURTENANCES FOR IRRIGATION SYSTEM IN THIS VICINITY. CAP COLD WATER ABOVE CEILING AT BRANCH CONNECTIONS TO MAINS.

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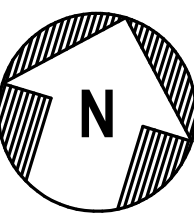
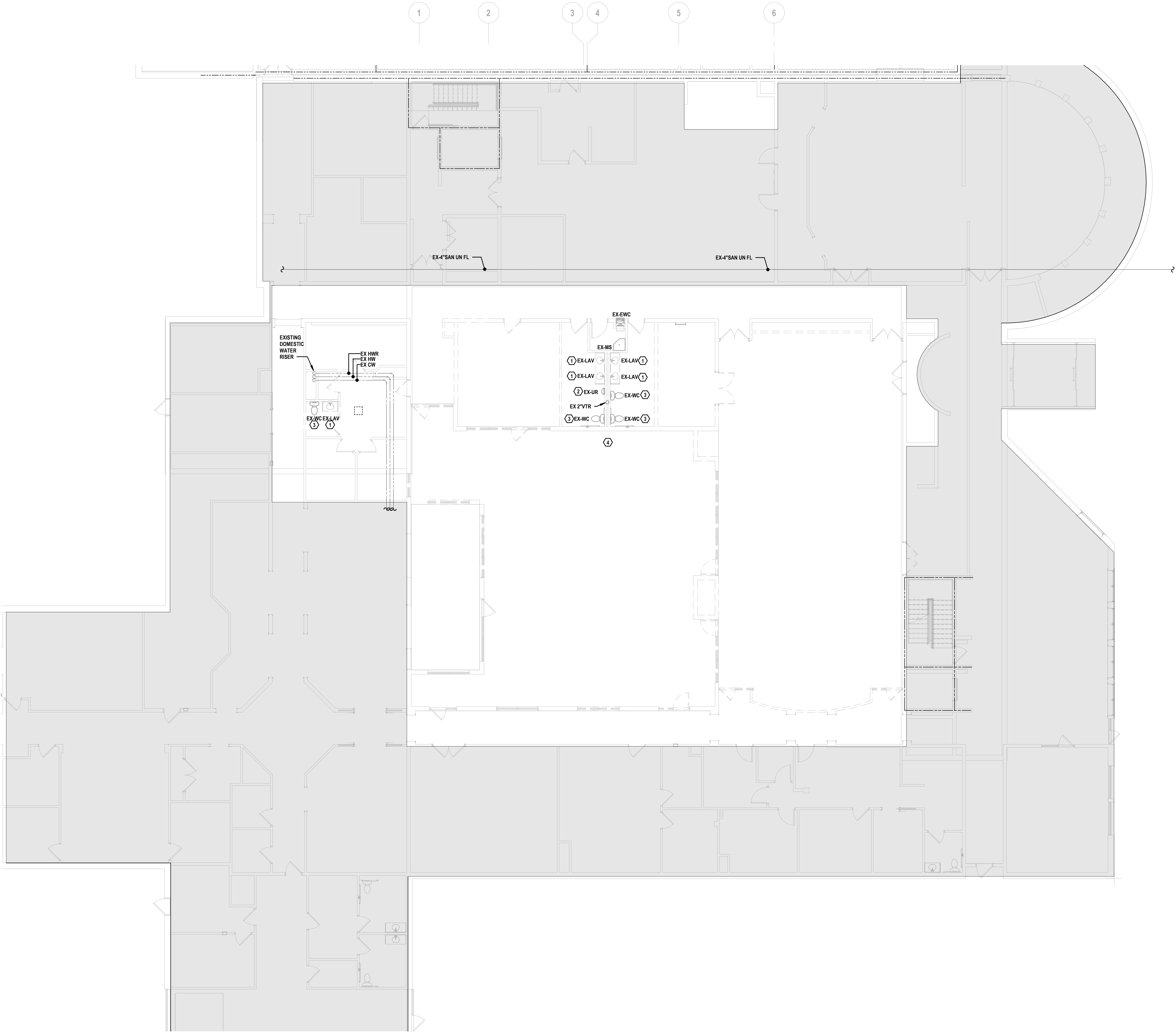
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DRAWING TITLE:
**FIRST FLOOR
PLAN -
DEMOLITION -
PLUMBING**

SCALE: AS NOTED
DRAWN BY: **KNB**
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VOLUME II
DRAWING NO:
PD100
COMMISSION NO: 2024109
DATE: 2 MAY 2025



FIRST FLOOR PLAN — DEMOLITION — PLUMBING
SCALE: 1/8" = 1'-0"

| WALL FIRE RATINGS KEY | |
|--|------|
| 1-HOUR RATED FIRE PARTITION | ---- |
| 1-HOUR RATED FIRE BARRIER / SHAFT WALL | ---- |
| 2-HOUR RATED FIRE BARRIER / SHAFT WALL | ---- |
| 2-HOUR FIRE WALL | ---- |

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NOTES

- 1 1/2" CW & HW TO STUB UP AND SERVE SINK. PROVIDE CW TAP OFF TO ICEMAKER AND MAKE FINAL CONNECTION.
- 2 1/2" CW & HW TO DROP IN WALL BELOW FLOOR AND SERVE BAR SINK. PROVIDE ACCESS PANEL FOR ISOLATION VALVES. 1/2" CW TO ROUTE ABOVE NEW CEILING TO SERVE HOSE BIBB AND ROOF HYDRANT.
- 3 1/2" CW ROUTED STACKED ABOVE CEILING AND BELOW FLOOR.

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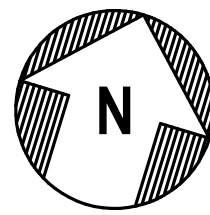
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DRAWING TITLE:
**FIRST FLOOR
PLAN -
DOMESTIC
WATER**

SCALE: AS NOTED
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DATE: 2 MAY 2025



FIRST FLOOR PLAN — DOMESTIC WATER
SCALE: 1/8" = 1'-0"

| WALL FIRE RATINGS KEY | |
|--|-------|
| 1-HOUR RATED FIRE PARTITION | ----- |
| 1-HOUR RATED FIRE BARRIER / SHAFT WALL | ===== |
| 2-HOUR RATED FIRE BARRIER / SHAFT WALL | ===== |
| 2-HOUR FIRE WALL | ===== |

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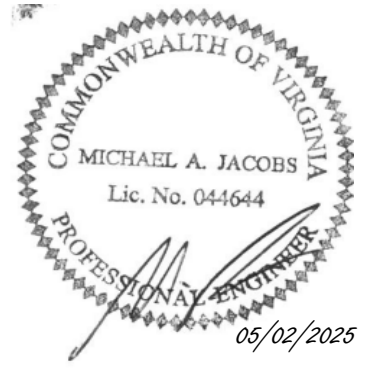


NOTES

- 1 PROVIDE DRAIN CONNECTIONS TO BAR SINK, DRAIN-BOARD, ICE BIN, AND ICE DISPENSER. DROP DRAINS PROVIDED TO FLOOR SINK WITH AIR GAP.
- 2 COORDINATE EXACT TIE IN TO EXISTING STORM DRAIN WITH CIVIL IN THIS VICINITY AND MAKE FINAL CONNECTION.

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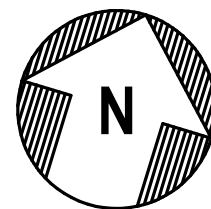
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DRAWING TITLE:
**FIRST FLOOR
PLAN -
SANITARY &
VENT**

SCALE: AS NOTED
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FIRST FLOOR PLAN – SANITARY & VENT
SCALE: 1/8" = 1'-0"

| WALL FIRE RATINGS KEY | |
|--|-------|
| 1-HOUR RATED FIRE PARTITION | ----- |
| 1-HOUR RATED FIRE BARRIER / SHAFT WALL | ===== |
| 2-HOUR RATED FIRE BARRIER / SHAFT WALL | ===== |
| 2-HOUR FIRE WALL | ===== |

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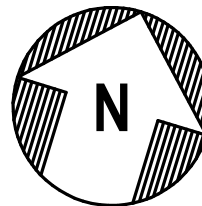
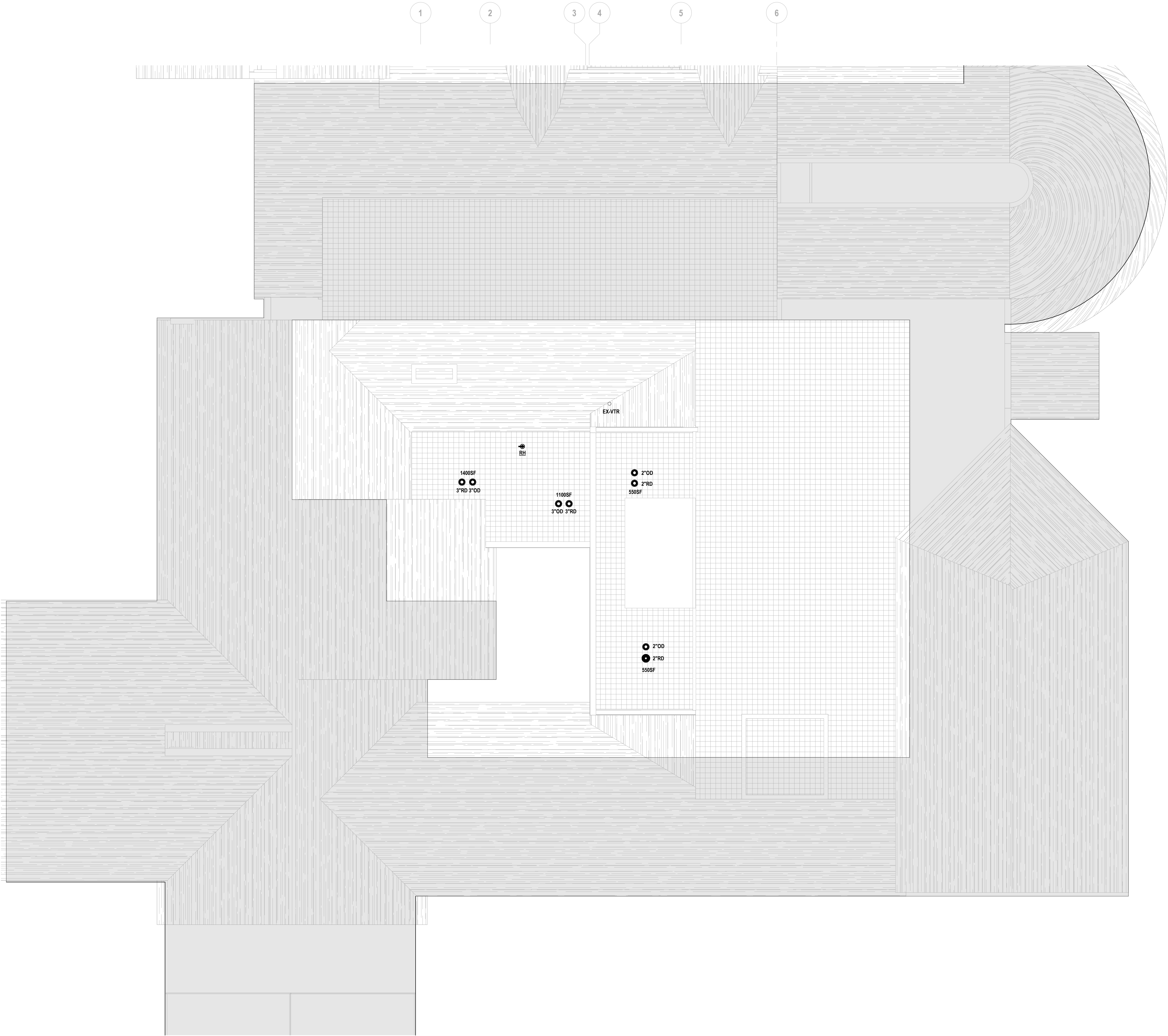
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DRAWING TITLE:
**ROOF PLAN -
DOMESTIC
WATER, STORM
& VENT**

SCALE: AS NOTED
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SECOND FLOOR PLAN — DOMESTIC WATER, STORM & VENT
SCALE: 1/8" = 1'-0"

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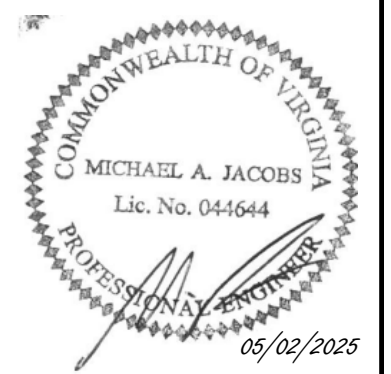
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| <h1> SYMBOLS & IDENTIFICATION OF GRILLES, REGISTERS, & DIFFUSERS </h1> | | |
|---|--|----------------------------------|
| IDENTIFICATION | | |
| | | |
| DESCRIPTION | | |
| SR - RETURN REGISTER | RG - RETURN GRILLE | CD - CEILING DIFFUSER |
| RR - RETURN REGISTER | EQ - EXHAUST GRILLE | LD - LINEAR DIFFUSER |
| ER - EXHAUST REGISTER | LFD - LAMINAR FLOW DIFFUSER | TG - TRANSFER GRILLE |
| RLR - RELIEF REGISTER | | |
| STYLE | | |
| | SQUARE DIFFUSER (HATCHED SECTOR INDICATES DIRECTION WITHOUT AIRFLOW) | |
| | ROUND DIFFUSER W/ ADJUSTABLE PATTERN | |
| | SIDEWALL REGISTER OR GRILLE | |
| | CEILING REGISTER OR GRILLE | |
| | STYLE 5.1 | LINEAR DIFFUSER W/ 1 WAY PATTERN |
| | STYLE 5.2 | LINEAR DIFFUSER W/ 2 WAY PATTERN |
| | STYLE 5.3 | LINEAR DIFFUSER FOR RETURN AIR |

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PROJECT NAME:
**BRANDON OAKS
COMMUNITY
CENTER/DINING
RENOVATIONS
FOR
VIRGINIA
LUTHERAN
HOMES, INC**

PROJECT ADDRESS:

3804 BRANDON AVENUE,
ROANOKE, VA 24018

[illegible]

MECHANICAL LINETYPE KEY

(APPLIES TO ALL MECHANICAL SERVICES OR SYMBOLS)

| SYMBOL | DESCRIPTION |
|--------|---|
| ===== | HEAVY LINEWEIGHT INDICATES DUCTWORK, PIPING AND EQUIPMENT TO BE FURNISHED UNDER THIS PROJECT |
| ----- | THIN LINEWEIGHT INDICATES DUCTWORK, PIPING AND EQUIPMENT THAT ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE |
| ----- | DASHED LINE TYPE INDICATES DUCTWORK, PIPING AND EQUIPMENT THAT ARE EXISTING TO BE REMOVED, UNLESS NOTED OTHERWISE |

MECHANICAL ABBREVIATIONS

| | | | |
|-------|-------------------------------|-------|---------------------------|
| AC | ABOVE CEILING | KW | KILOWATT |
| AF | ADjoining FLOOR | LA | LEAVING AIR TEMPERATURE |
| AFG | ABOVE FINISHED GRADE | LF | LINEAL FEET |
| APD | AIR PRESSURE DROP | LWT | LEAVING WATER TEMPERATURE |
| ATC | AUTOMATIC TEMPERATURE CONTROL | MC | MECHANICAL CONTRACTOR |
| BT | BETWEEN JOIST | MS | METRIC |
| BL | BELOW FINISHED GRADE | PSF | POUNDS PER SQUARE INCH |
| CBM | CUBIC FEET PER MINUTE | QPM | FLUENTS PER MINUTE |
| DB | DRY BULB | TJ | THRU JOIST |
| DA | DIAMETER | TR | THROUGH FLOOR |
| DF | DIFFUSER | TP | TOTAL PRESSURE |
| EAT | ENTERING AIR TEMP | TSP | TOTAL STATIC PRESSURE |
| EC | ELECTRICAL CONTRACTOR | TYP | TYPICAL |
| EP | EXTERNAL STATIC PRESSURE | UN | UNLESS NOTED OTHERWISE |
| EWT | ENTERING WATER TEMPERATURE | WB | WET BULB |
| EX | EXISTING | WG | WET GAGES WATER GAGE |
| FM | FEET PER MINUTE | WTP | WATER PRESSURE DROP |
| FR | FIBERGLASS REINFORCED PLASTIC | V | VOLTS |
| FV | FACE VELOCITY | S & S | SOIL & SEWAGE STACK |
| GC | GENERAL CONTRACTOR | SV | SEWER VENT |
| GPM | GALLONS PER MINUTE | UN | UNLESS NOTED OTHERWISE |
| HC | HEATING/HA/C CONTRACTOR | US | UNDERSTIE STEEL |
| FT HD | FEET OF HEAD | VR | VENT THRU ROOF |
| HP | HORSEPOWER | WS | WASTE STACK |
| HZ | HERTZ | | |

DRAWING TITLE:
**SYMBOLS &
GENERAL
NOTES - HVAC**

SCALE: AS NOTED

COORDINATED BY:

CHECKED BY:

APPROVED BY:

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VOLUME II

DRAWING NO: 11000

H000

COMMUNICATION NO. 888-1122

DATE: 3 MAY 2005

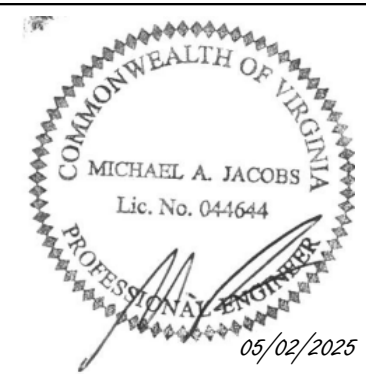


NOTES

- 1 REMOVE TRANSFER GRILLE AND DUCTWORK TO POINT SHOWN.
- 2 REMOVE VERTICAL FAN COIL IN CLOSET. REMOVE CONNECTED SUPPLY DUCTWORK ABOVE CEILING. CAP HYDRONIC PIPING ABOVE CEILING.
- 3 REMOVE FAN COIL ABOVE CEILING. REMOVE CONNECTED DUCTWORK AND ASSOCIATED GRILLES. REMOVE CONTROLS, PIPING, AND APPURTENANCES. CAP HYDRONIC PIPING ABOVE CEILING FOR CONNECTION TO REPLACEMENT UNIT.
- 4 REMOVE THERMOSTAT AND CONTROL WIRING.
- 5 REMOVE BASEBOARD HEATERS AND ASSOCIATED CONTROLS AND APPURTENANCES.
- 6 REMOVE EXHAUST GRILLE IN BATHROOM. REMOVE DUCTWORK BACK TO MAIN EXHAUST IN HALLWAY. PATCH AND SEAL DUCT OPENING.
- 7 RELOCATE HEAT PUMP FROM GRADE UP TO NEW ROOF ABOVE BAR. RELOCATE AND EXTEND REFRIGERANT PIPING TO EXISTING LINES ABOVE CEILING. RECLAIM REFRIGERANT PIPING ON EXTERIOR AND VERTICALLY UP IN WALL.
- 8 MINI-SPLIT AIR HANDLER RECESSED IN CEILING TO REMAIN.
- 9 EXHAUST GRILLE AND DUCTWORK TO REMAIN. REFERENCE PLAN FOR NEW AIR BALANCE.
- 10 REMOVE EXTERIOR REFRIGERANT PIPING AND VERTICAL PIPING IN WALL. PIPING ABOVE CEILING TO REMAIN.

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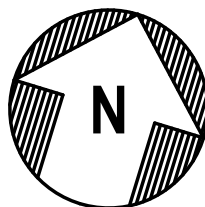
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DRAWING TITLE:
**FIRST FLOOR
PLAN -
DEMOLITION -
HVAC**

SCALE: AS NOTED
DRAWN BY: **DMM**
COORDINATED BY:
CHECKED BY:
APPROVED BY:

II
VOLUME II
DRAWING NO:
HD100
COMMISSION NO: **2024109**
DATE: **2 MAY 2025**



FIRST FLOOR PLAN — DEMOLITION — HVAC
SCALE: 1/8" = 1'-0"

| WALL FIRE RATINGS KEY | | |
|--|-------|--|
| 1-HOUR RATED FIRE PARTITION | ----- | |
| 1-HOUR RATED FIRE BARRIER / SHAFT WALL | ----- | |
| 2-HOUR RATED FIRE BARRIER / SHAFT WALL | ----- | |
| 2-HOUR FIRE WALL | ----- | |

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DESIGNED BY: DMM
CHECKED BY: DMM
APPROVED BY: DCB
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NOTES

1. INSTALL WALL MOUNTED MINI SPLIT AIR HANDLER HIGH ON WALL. BOTTOM OF UNIT TO BE 6" ABOVE DOOR.
2. CONNECT NEW TRANSFER DUCT TO EXISTING DUCT. INSTALL NEW TRANSFER GRILLE IN HALLWAY.
3. RE-BALANCE EXHAUST FAN FOR ADJUSTED EXHAUST CFM IN MEN'S 107/WOMEN'S 108 AND ADDED EXHAUST IN TL1 106A. INCREASE OF 125 CFM EXHAUST. REPLACE BELTS, PULLEYS & SHEAVES AS REQUIRED TO OBTAIN NEW AIRFLOW.
4. MINI-SPLIT AIR HANDLER RECESSED IN CEILING TO REMAIN.
5. BALANCE EXISTING EXHAUST GRILLE TO CFM AS INDICATED.
6. INSTALL MOTORIZED DAMPER IN VERTICAL RELIEF DUCT ABOVE CEILING. DAMPER TO BE CONTROLLED BY PRESSURE DIFFERENTIAL SENSORS INSTALLED IN AUDITORIUM SPACE AND ON ROOF. DAMPER TO BE OPEN WHEN THERE IS AN EXCESS OF BUILDING PRESSURE.
7. SUPPLY AIR DOWN FROM RTAHU-1 ON ROOF ABOVE. ELBOW DUCT IN BOTH DIRECTIONS BELOW JOISTS.
8. RETURN AIR UP TO RTAHU-1 ON ROOF ABOVE. ELBOW DUCT IN TWO DIRECTIONS BELOW JOISTS.
9. FLEX DUCT SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS OTHERWISE NOTED.
10. PROVIDE BACKDRAFT DAMPER AT DUCT CONNECTION TO ROOF VENTILATOR.

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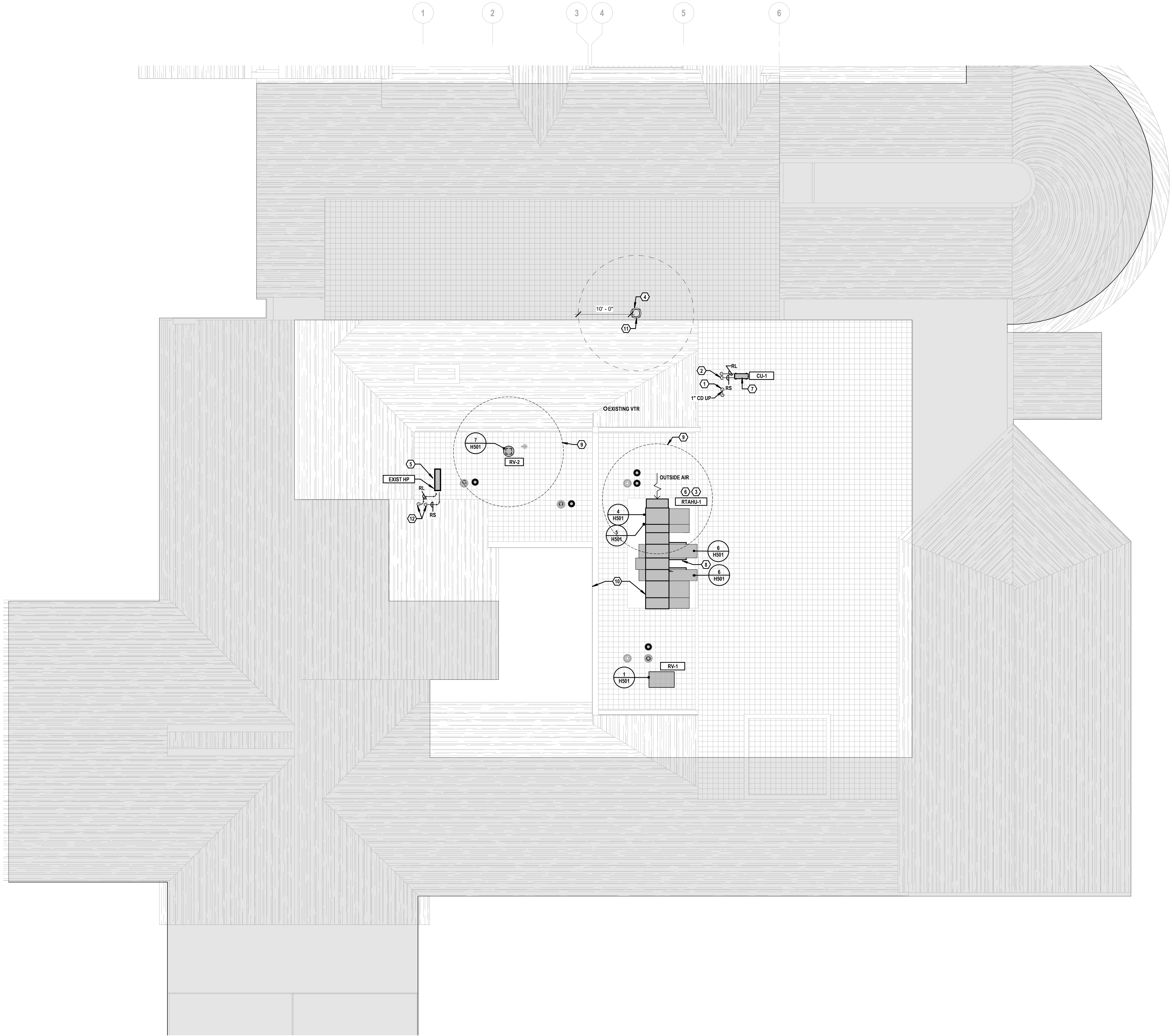
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**FIRST FLOOR
PLAN -
DUCTWORK**

SCALE: AS NOTED
DRAWN BY: **DMM**
COORDINATED BY:
CHECKED BY:
APPROVED BY:
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VOLUME II
DRAWING NO:
H100
COMMISSION NO: **2024109**
DATE: **2 MAY 2025**

FIRST FLOOR PLAN — DUCTWORK
SCALE: 1/8" = 1'-0"

| WALL FIRE RATINGS KEY | | | |
|--|-------|--|--|
| 1-HOUR RATED FIRE PARTITION | ----- | | |
| 1-HOUR RATED FIRE BARRIER / SHAFT WALL | ===== | | |
| 2-HOUR RATED FIRE BARRIER / SHAFT WALL | ===== | | |
| 2-HOUR FIRE WALL | ===== | | |

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NOTES

- CONDENSATE UP FROM BELOW TO TERMINATE ABOVE ROOF.
- REFRIGERANT LINES DOWN THROUGH ROOF TO WALL MOUNTED AIR HANDLER DIRECTLY BELOW. SIZE, TRAP, AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- INSTALL ROOFTOP AIR HANDLER ON VIBRATION ISOLATION CURB. COORDINATE LOCATION WITH STRUCTURAL.
- EXISTING ROOFTOP EXHAUST FAN TO REMAIN.
- RELOCATE MINI SPLIT HEAT PUMP TO ROOF. PROVIDE NEW REFRIGERANT LINES TO CONNECT BACK TO EXISTING LINES TO AIR HANDLER. INSTALL ON EQUIPMENT SUPPORTS. SIZE, TRAP, AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- TRAP CONDENSATE PER MANUFACTURER'S DIRECTION. DRAIN TO NEAREST ROOF DRAIN.
- INSTALL CONDENSER ON EQUIPMENT SUPPORTS.
- HYDRONIC SUPPLY AND RETURN PIPING ABOVE ROOF AND WITHIN PIPE CABINET SHALL BE PROVIDED WITH ELECTRIC HEATING CABLE RATED AT 5 WATTS PER FOOT.
- ENSURE 10' MINIMUM HORIZONTAL CLEARANCE BETWEEN OUTSIDE AIR INTAKE AND ANY BUILDING EXHAUST OR PLUMBING VENTS.
- ENSURE A MINIMUM OF 10' BETWEEN RTAHU-1 AND ROOF EDGE.
- RE-BALANCE EXHAUST FAN FOR ADJUSTED EXHAUST CFM IN MEN'S 107/WOMEN'S 108 AND ADDED EXHAUST IN TL1108A. INCREASE OF 120 CFM EXHAUST. REPLACE BELTS, PULLEYS & SHEAVES AS REQUIRED TO OBTAIN NEW AIRFLOW.
- REFRIGERANT LINES DOWN THROUGH ROOF TO CONNECT TO EXISTING LINES ABOVE CEILING.

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Lic. No. 045648
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HOMES, INC**

PROJECT ADDRESS:
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DRAWING TITLE:
**ROOF PLAN -
DUCTWORK**

SCALE: AS NOTED
DRAWN BY: **DMM**
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DRAWING NO:
H101
COMMISSION NO: 2024109
DATE: 2 MAY 2025

ROOF PLAN — HVAC
SCALE: 1/8" = 1'-0"

| WALL FIRE RATINGS KEY | | | |
|--|-------|--|--|
| 1-HOUR RATED FIRE PARTITION | ----- | | |
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NOTES

- 1 ROUTE CONDENSATE UP TO ROOF VIA MANUFACTURER'S CONDENSATE PUMP ACCESSORY.
- 2 INSTALL REFRIGERANT LINES DOWN FROM CONDENSER DIRECTLY ABOVE ON ROOF. SIZE,
3 TRAP, AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 4 PROVIDE CONDENSATE PUMP ABOVE CEILING.
- 5 THREE CONDENSATE LINES DOWN TO FLOOR DRAIN. DRAIN INDIVIDUALLY VIA AIR GAP.
6 COORDINATE DRAIN WITH P.C.
- 7 SUPPLY AND RETURN PIPING UP TO RTAHU-1 ON ROOF ABOVE.
- 8 HYDROMIC PIPING UP/DOWN IN CEILING ABOVE CEILING. REFER TO VOLUME 1 DRAWINGS
9 FOR NEW PIPING ON LOWER LEVEL.
- 10 MINI-SPLIT AIR HANDLER RECESSED IN CEILING TO REMAIN.
- 11 VERIFY LOCATION OF EXISTING CONDENSATE DRAIN. RELocate TO EXTERIOR COURTYARD
12 REQUIRED FOR NEW CONSTRUCTION.
- 13 PROVIDE TAPS AND VALVES FOR AS SHOWN FOR FUTURE CONNECTION TO REPLACEMENT
14 CHILLER UNIT. CAP LINES AFTER SHUTOFF VALVE.
- 15 PRIOR TO NEW WORK, PERFORM PRE-CONSTRUCTION AUDIT TO CONFIRM ALL EXISTING HOT
16 AND COLD WATER FLOWS. AT THE COMPLETION OF CONSTRUCTION, CONFIRM NEW FLOW
17 AND VERIFY EXISTING ARE UNCHANGED.



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DRAWING TITLE:
**FIRST FLOOR
PLAN - PIPING**

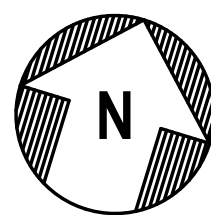
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FIRST FLOOR PLAN - PIPING

SCALE: 1/8" = 1'-0"



WALL FIRE RATINGS KEY

- | | |
|--|-------|
| 1-HOUR RATED FIRE PARTITION | _____ |
| 1-HOUR RATED FIRE BARRIER / SHAFT WALL | _____ |
| 2-HOUR RATED FIRE BARRIER / SHAFT WALL | _____ |
| 2-HOUR FIRE WALL | _____ |



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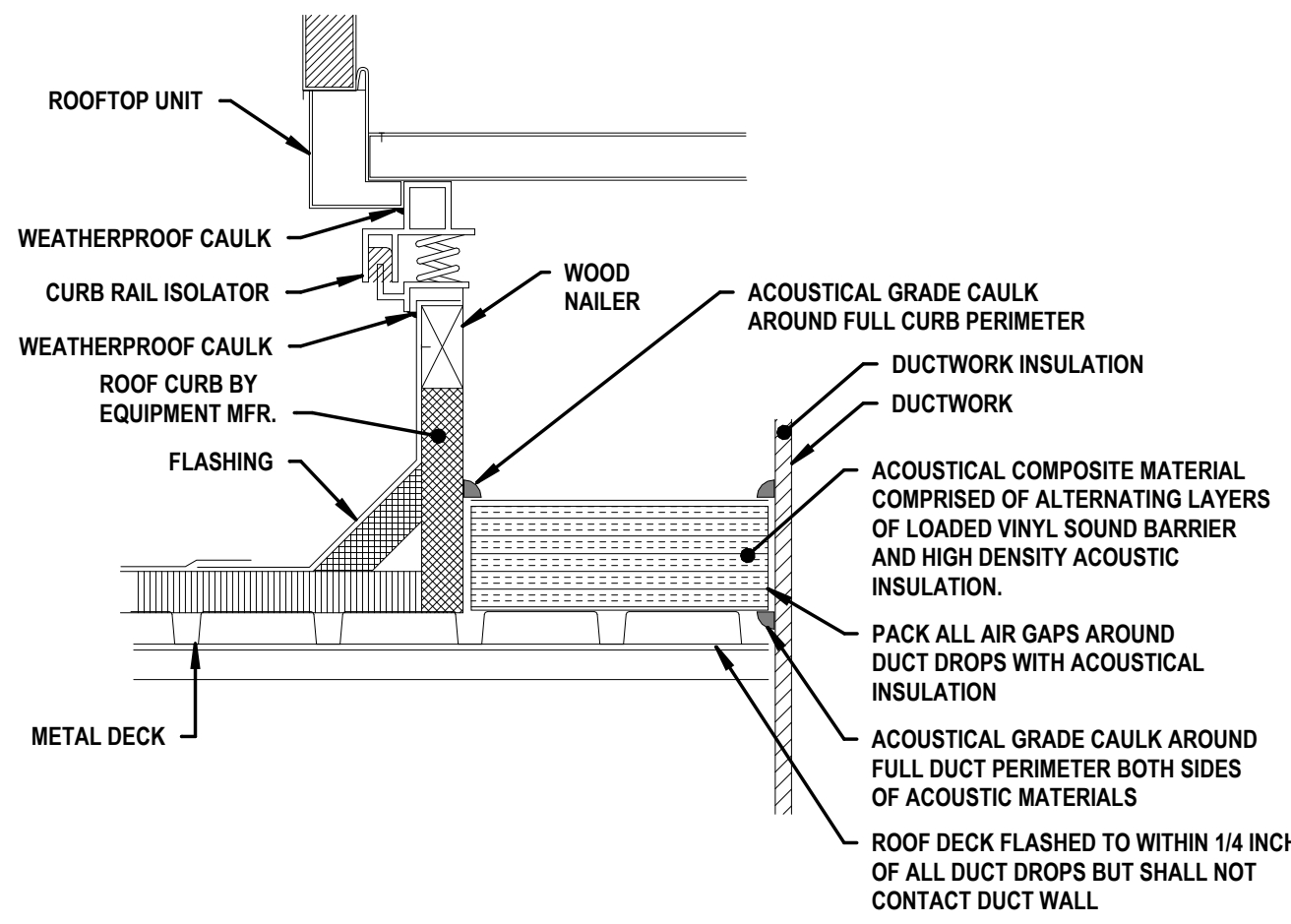


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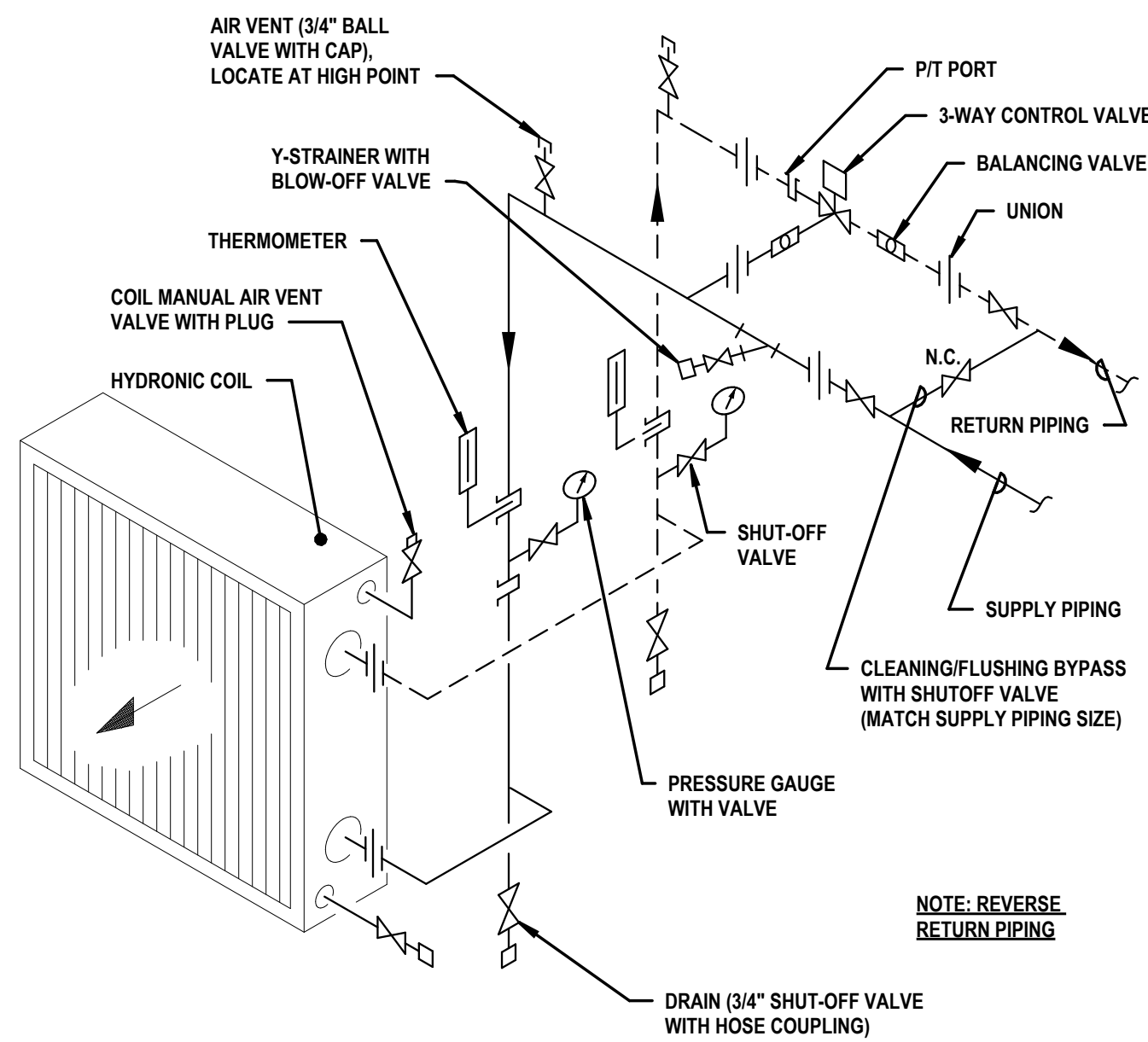
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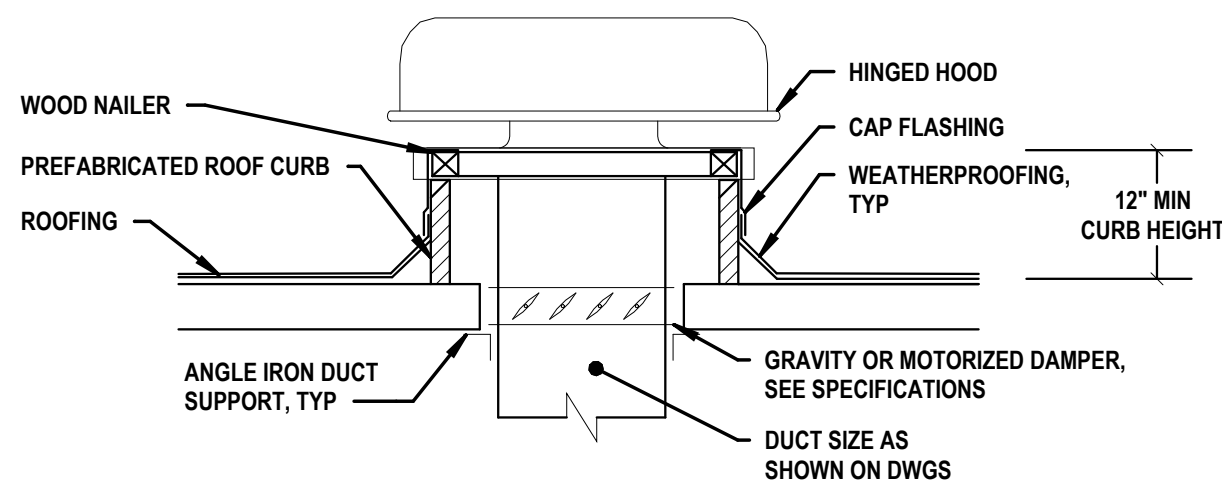
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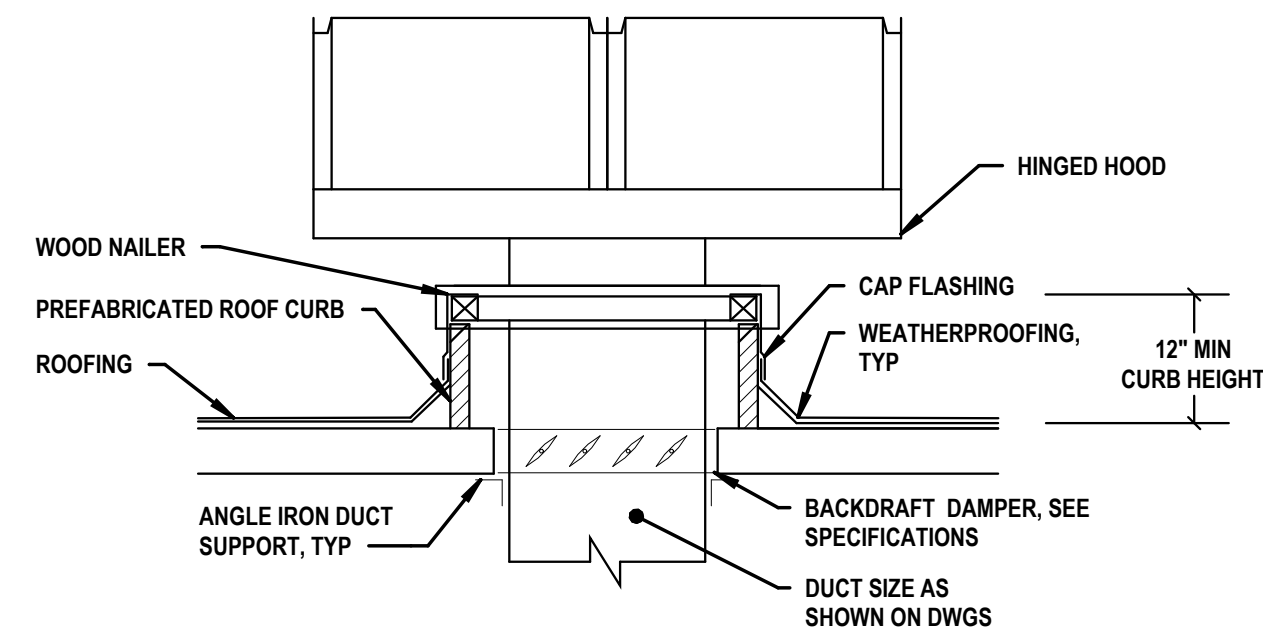
DETAIL 5
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ROOFTOP UNIT CURB WITH ACOUSTIC MATERIAL FILL



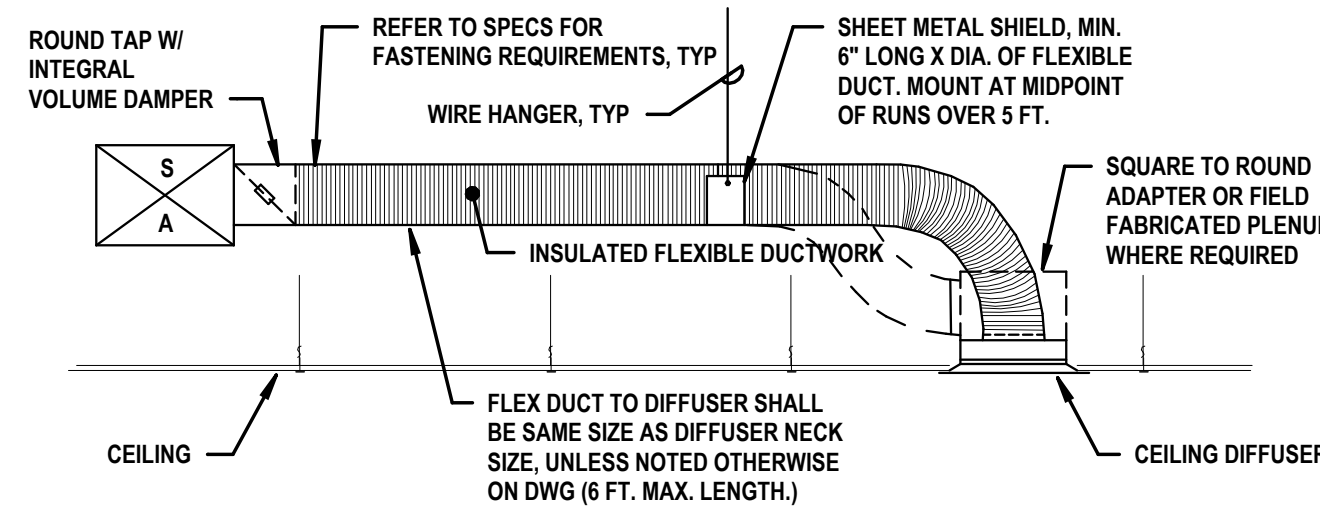
DETAIL 6
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COIL CONNECTION, SINGLE, AHU, 3-WAY



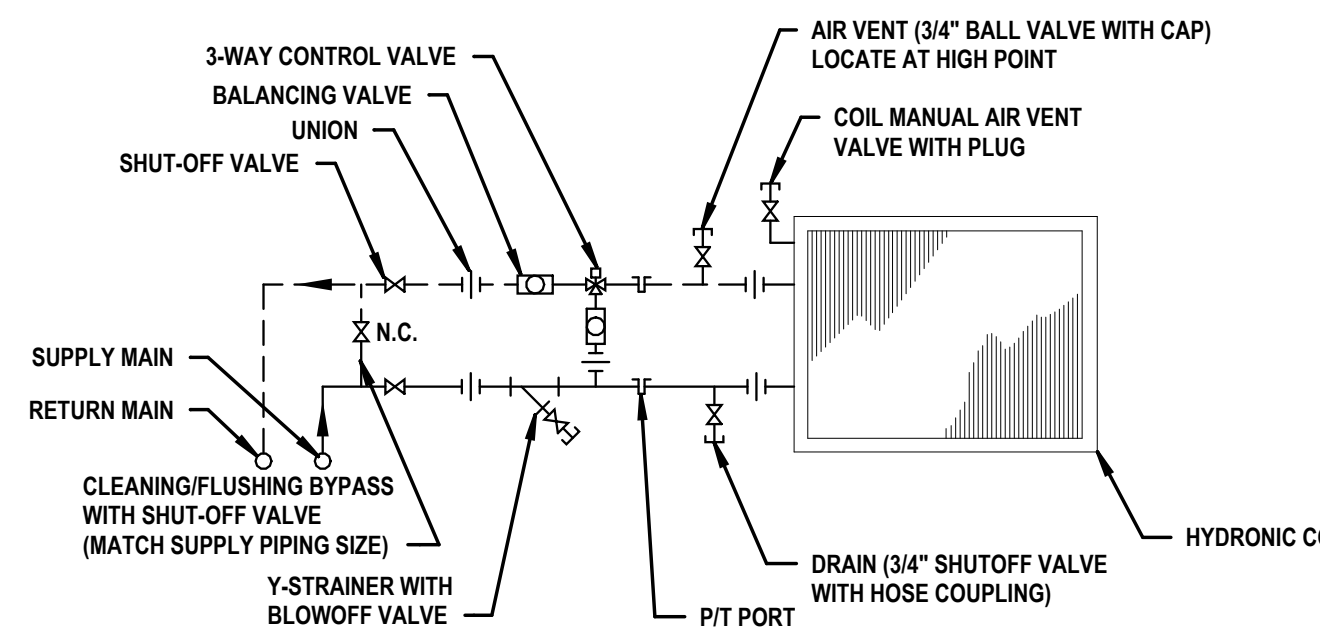
DETAIL 7
NO SCALE
ROOF VENT, ROUND



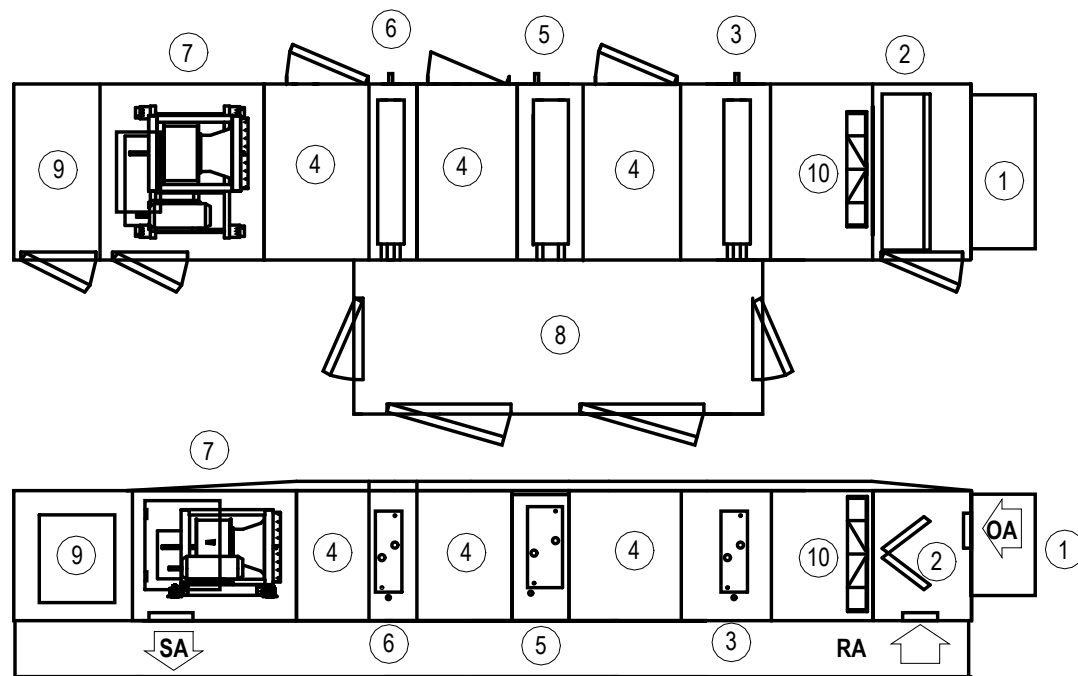
DETAIL 1
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ROOF VENT, RECTANGULAR



DETAIL 2
NO SCALE
FLEXIBLE DUCT TO SQUARE DIFFUSER



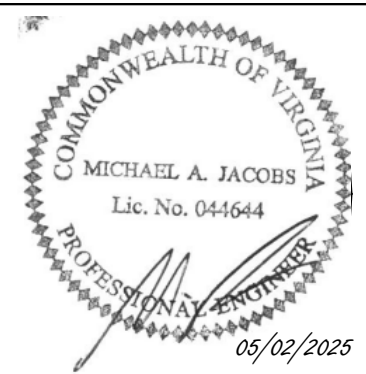
DETAIL 3
NO SCALE
COIL CONNECTION, FCU, 3-WAY



DETAIL 4
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AHU, OUTDOOR-REHEAT-SUPPLY FAN ONLY

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| *Powered through CU-1 | | | | |
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| SSAC-2 | 300 | 12 | 9 | CU-2 |

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| DRAWING NO: H601 | |
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