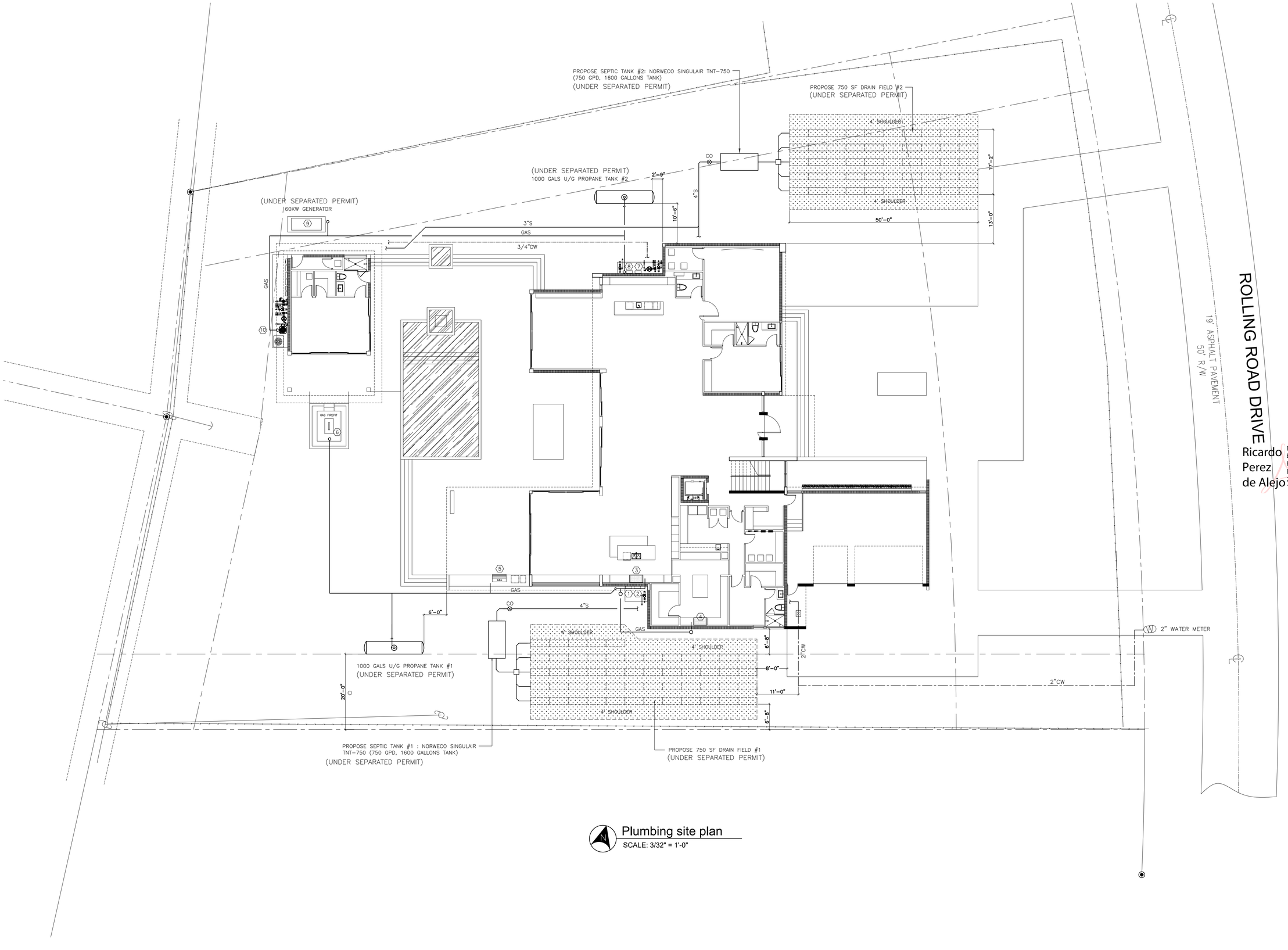


## Plumbing site plan

SCALE: 3/32" = 1'-0"


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RICARDO PEREZ DE ALEJO LICENSE No. 58728 STATE OF FLORIDA PROFESSIONAL ENGINEER

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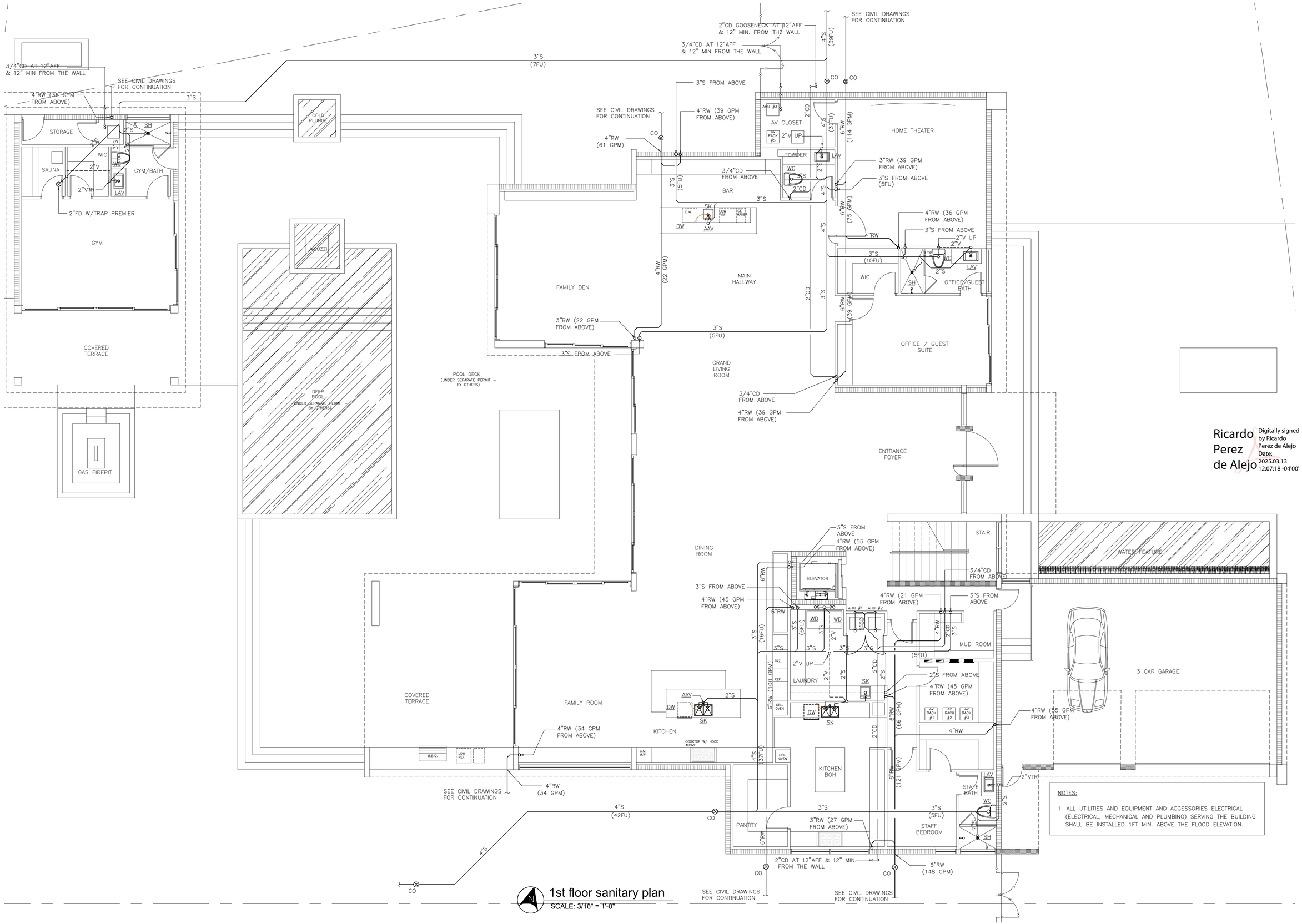
ORIGINAL ISSUE DATE: 12-26-2024
PLOT DATE: 2025-03-11




## 1st floor sanitary plan

SCALE: 3/16" = 1'-0"

NOTES:

1. ALL UTILITIES AND EQUIPMENT AND ACCESSORIES ELECTRICAL (ELECTRICAL, MECHANICAL AND PLUMBING) SERVING THE BUILDING SHALL BE INSTALLED 1FT MIN. ABOVE THE FLOOD ELEVATION.

Ricardo Perez de Alejo

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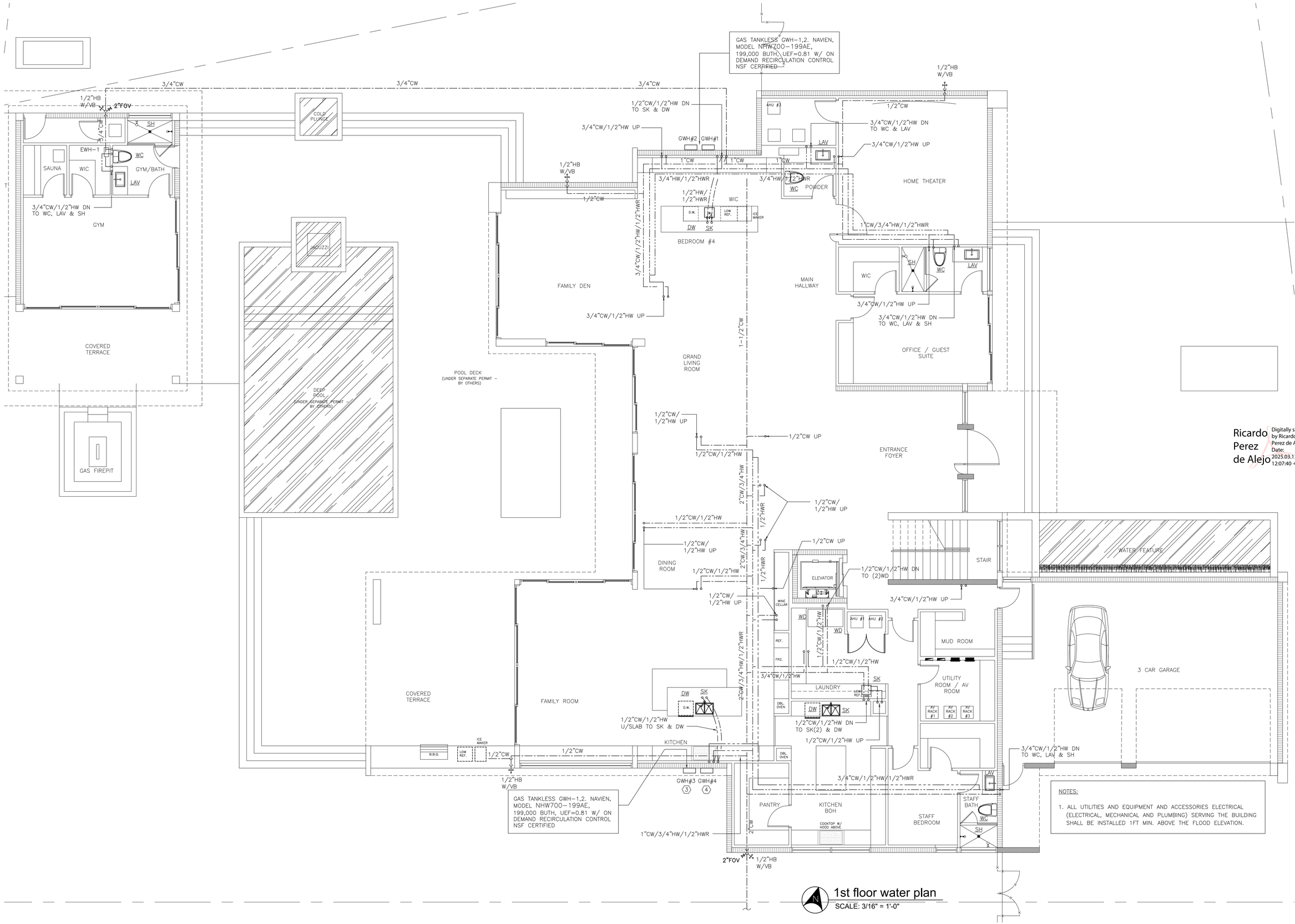


1st floor water plan

SCALE: 3/16" = 1'-0"

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ORIGINAL ISSUE DATE: 12-26-2024
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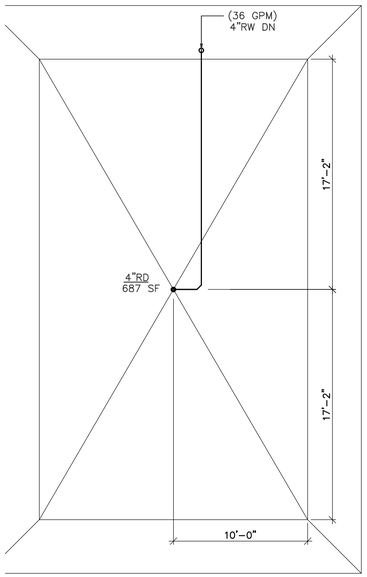


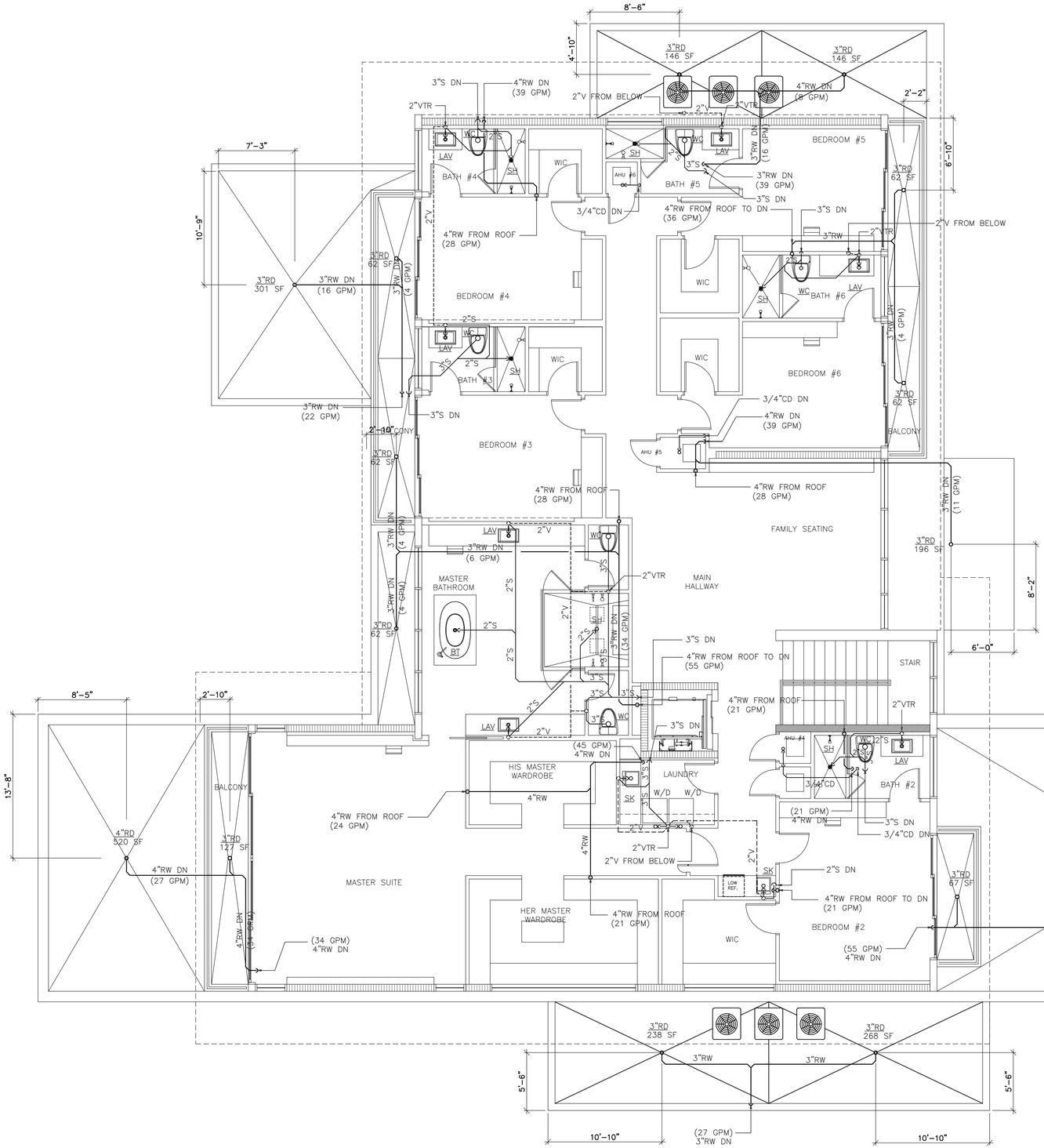


## 2nd floor sanitary plan

SCALE: 3/16" = 1'-0"


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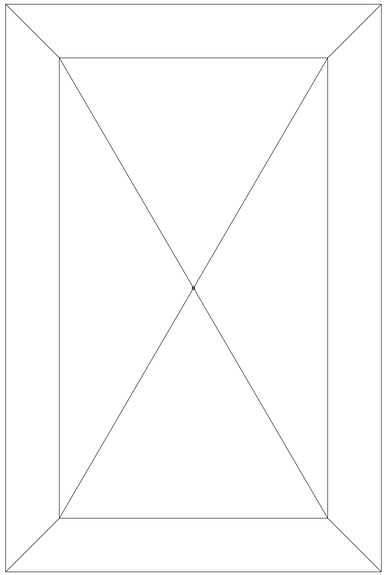

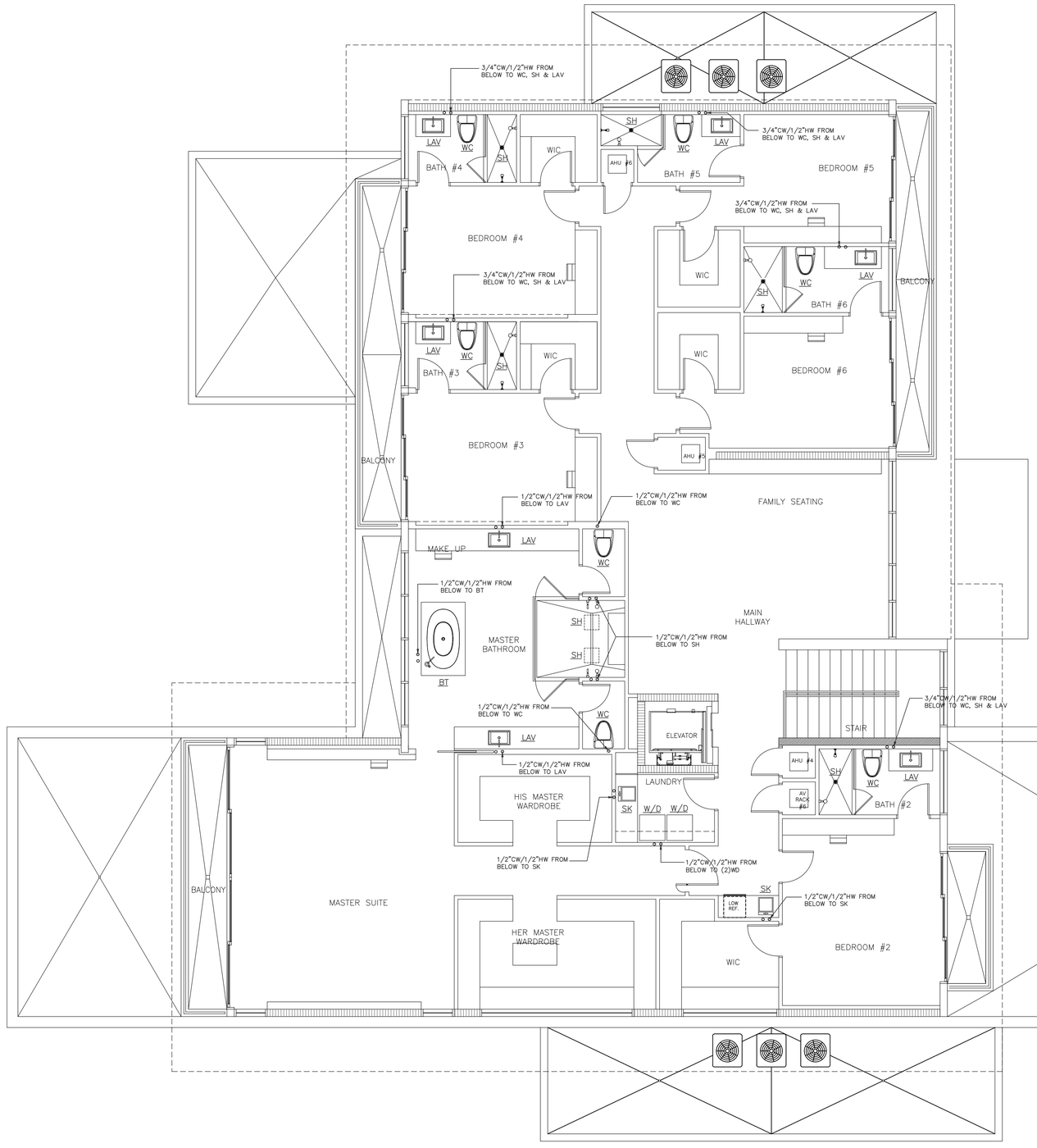


## 2nd floor water plan

SCALE: 3/16" = 1'-0"


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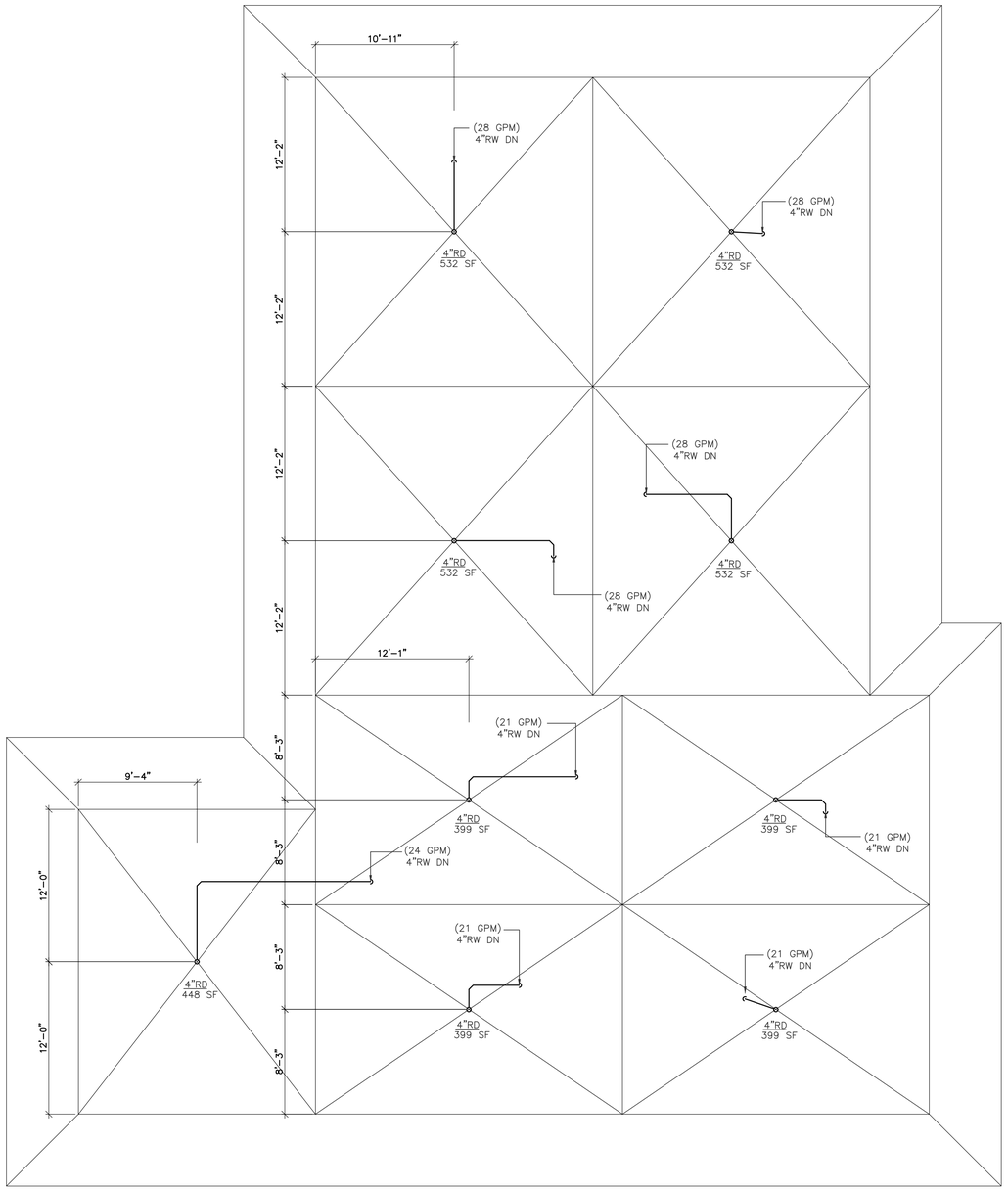
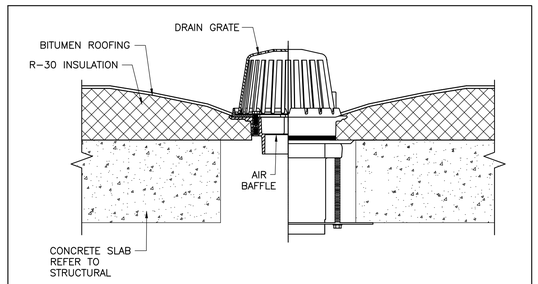



## Roof plumbing plan

SCALE: 3/16" = 1'-0"




NOTES:

1. ROOF DRAINS SHALL CONFORM TO ASME A112.6.4 OR ASME A112.3.1.
2. MINIMUM 30" SQUARE, 2–1/2–LB. TO 4–LB. LEAD FLASHING OR 16 OZ. SOFT COPPER FLASHING. SET ON FINISHED PLIES AND PRIME TOP SURFACE BEFORE STRIPPING.
3. MEMBRANE PLIES, METAL FLASHING AND FLASHING PLIES EXTEND UNDER CLAMPING RING.
4. STRIPPING FELTS–EXTEND 4" AND 8" BEYOND EDGE OF FLASHING SHEET, BUT NOT BEYOND EDGE OF SUMP.
5. LEAD FURNISHED BY PLUMBER, INSTALLED & FLASHING BY ROOFING CONTRACTOR.
6. STATIC EXTENSION INSTALLED, SEALED AND WARRANTED BY PLUMBER.
7. CAST IRON ROOF DRAIN. PLASTIC DRAINS ARE UNACCEPTABLE.

ROOF DRAIN DETAIL
NTS

NOTES:

1– SCUPPERS SHALL BE A MINIMUM OF 4 INCHES IN ANY DIMENSION. OVERFLOW SCUPPERS SHALL BE LOCATED AT 16 FT MAX. FROM ROOF DRAIN.
2– THE SECONDARY DRAIN SYSTEM WAS DESIGNED TO PREVENT THE WATER ACCUMULATION OF MORE THAN 5" IN ANY PORTION OF THE ROOF.
3– SCUPPER OPENINGS IS BE NOT LESS THAN 4 INCHES HEIGHT AND HAVE A WIDTH THAT IS EQUAL TO OR GREATER THAN THE CIRCUMFERENCE OF A ROOF DRAIN SIZED FOR THE SAME ROOF AREA. THE FLOW THROUGH THE PRIMARY SYSTEM IS NOT BE CONSIDERED WHEN LOCATING AND SIZING SECONDARY SCUPPERS.

C = 3.14 * D (ROOF DRAIN)
C = 3.14 * 3 IN = 10 IN

| PIPE SIZE(inches) | VERTICAL DRAIN | CAPACITY (gpm) SLOPE OF HORIZONTAL DRAIN 1/16 inch per foot | 1/8 inch per foot | 1/4 inch per foot | 1/2 inch per foot |
|---|---|---|---|---|---|
| 2 | 34 | 15 | 22 | 31 | 44 |
| **3** | 87 | 39 | **55** | 79 | 111 |
| **4** | 180 | 81 | **115** | 163 | 231 |
| 5 | 311 | 117 | 165 | 234 | 331 |
| 6 | 538 | 243 | 344 | 487 | 689 |
| 8 | 1,117 | 505 | 714 | 1,010 | 1,429 |
| 10 | 2,050 | 927 | 1,311 | 1,855 | 2,623 |
| 12 | 3,272 | 1,480 | 2,093 | 2,960 | 4,187 |
| 15 | 5,543 | 2,508 | 3,546 | 5,016 | 7,093 |

AT 5 IN PER HR. RAIN
GPM = AREA(SF) * 0.052

PLANTERS IRRIGATION UNDER SEPARATE PERMIT

Ricardo Perez de Alejo
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ORIGINAL ISSUE DATE: 12-26-2024
PLOT DATE: 2025-03-11

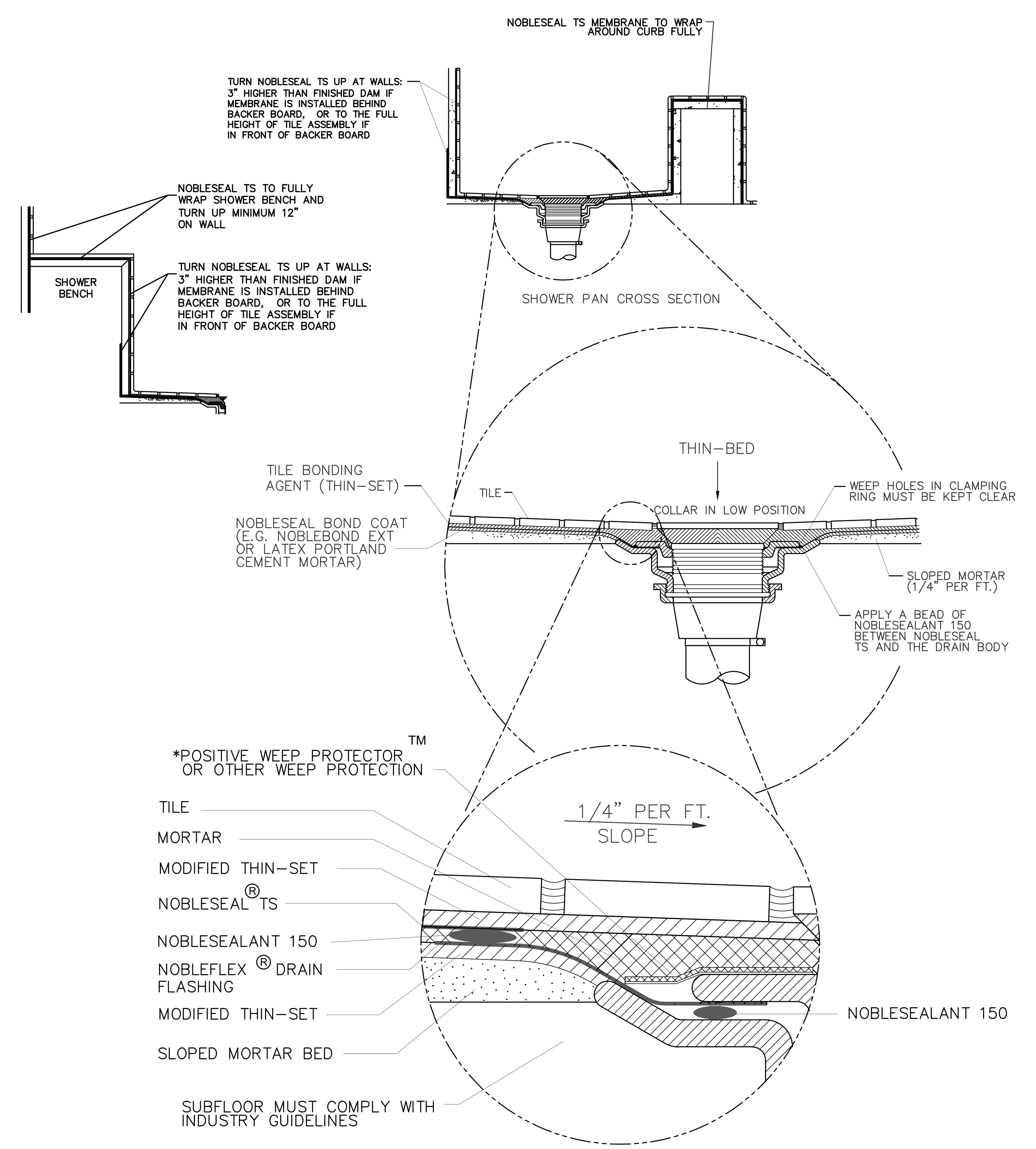
## PLUMBING FIXTURE CONNECTION SCHEDULE

IN COMPLIANCE TO **FBCP 406 through 425** AND WATER CONSUMPTION RATES AS PER MIAMI DADE ORDINANCE Article III, sec. 08-31.

| No. | DESCRIPTION | DRAIN | WATER COLD | WATER HOT | SAN. (FU) | MAX. FLOW RATE (GPM) | FIXTURE COMPLIENCE |
|---|---|---|---|---|---|---|---|
| WC | WATER CLOSET | 3" | 1/2" | N/A | 3 | 1.28 PER FLUSHING | ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAPMO Z124. Water closets shall conform to the hydraulic performance requirements of ASME A112.19.2/CSA B45.1. Water closet tanks shall conform to ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAPMO Z124. Electro-hydraulic water closets shall comply with ASME A112.19.2/CSA B45.1. Water closets equipped with a dual flushing device shall comply with ASME A112.19.14. |
| LAV | LAVATORY, PRIVATE | 1-1/4" | 1/2" | 1/2" | 1 | 1.5 AT 60 PSI | ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAPMO Z124. |
| DW | DISHWASHER (RESIDENTIAL) | 1-1/2" | N/A | 1/2" | 2 | 6.5 GAL PER CYCLE OR LESS | The water supply to a dishwashing machine shall be protected against backflow by an air gap that is integral with the machine or a backflow preventer shall be installed in accordance with Section 608. Air gaps shall comply with ASME A112.1.2 or A112.1.3. |
| SK | SINK | 1-1/2" | 1/2" | 1/2" | 2 | 1.5 AT 60 PSI | ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAPMO Z124. |
| SH | SHOWER | 2" | 1/2" | 1/2" | 2 | 1.5 AT 80 PSI | ASME A112.19.2/CSA B45.1 or CSA B45.5/IAPMO Z124. Shower valves for individual showers shall conform to the requirements of Section 412.3. |
| WM | WASHER MACHINE | 2" | 1/2" | 1/2" | 2 | WATER FACTOR OF 8 OR LOWER | The water supply to an automatic clothes washer shall be protected against backflow by an air gap that is integral with the machine or a backflow preventer shall be installed in accordance with Section 608. Air gaps shall comply with ASME A112.1.2 or A112.1.3. |
| BT | BATHTUB | 2" | 1/2" | 1/2" | 2 | ——— | ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAPMO Z124. |

## NOBLESEAL TS, SHOWER RECEPTOR, CURB, AND WALL WATERPROOFING

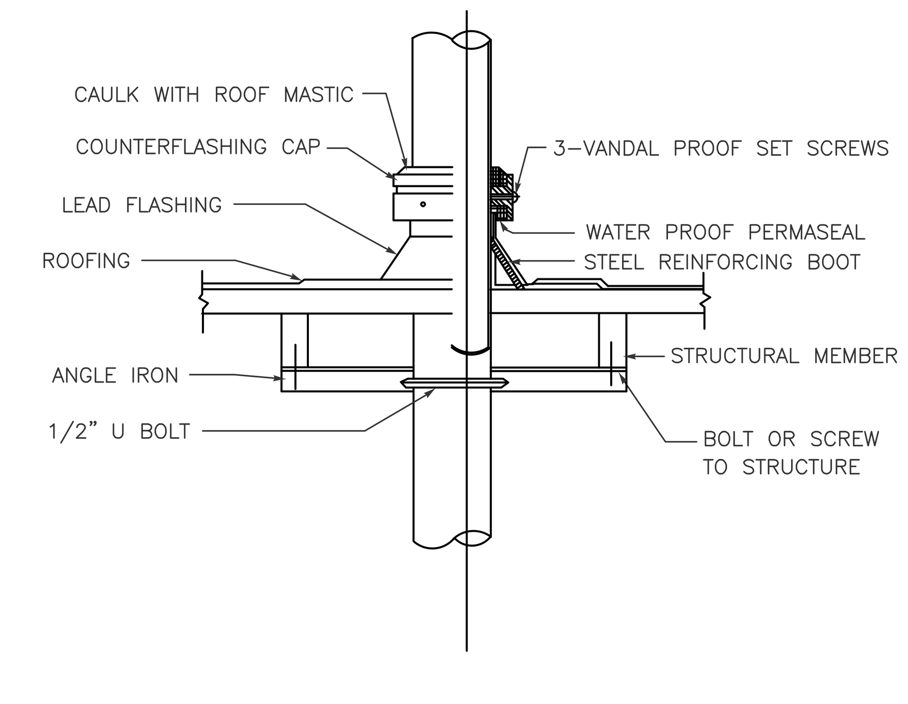
(NOT TO SCALE)



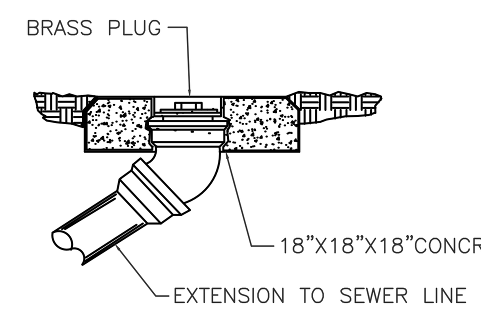

NOT TO SCALE

FOLLOW TCNA RECOMMENDATIONS

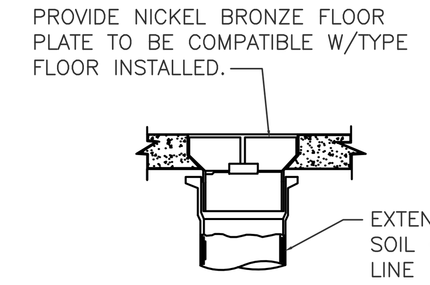
NOTE:
* USE PEA GRAVEL WITH 3/4" NOBLEFLEX DRAIN FLASHING



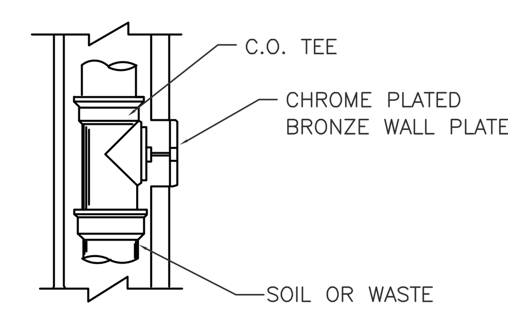

**VENT THRU ROOF**
N.T.S.




EXTENSION




FLOOR




WALL

**TYPICAL CLEANOUT DETAILS**
N.T.S.

| SHOWER SIZE OF TRAP (BASED ON THE TOTAL FLOW RATE THROUGH SHOWERHEADS AND BODY SPRAYS) | |
|---|---|
| FLOW RATE: | TRAP SIZE (MINIMUM) |
| → 5.7 GPM AND LESS, | 1-1/2" |
| MORE THAN 5.7 GPM UP TO 12.3 GPM, | 2" |
| MORE THAN 12.3 GPM UP TO 25.8 GPM, | 4" |
| MORE THAN 25.8 GPM UP TO 55.6 GPM, | 5" |

Ricardo Perez de Alejo — Digitally signed by Ricardo Perez de Alejo Date: 2025.03.13 12:09:26 -04'00'

## PLUMBING NOTES

1.0 GENERAL

1.1 PROVIDE (FURNISH AND INSTALL) ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETELY OPERATIONAL PLUMBING SYSTEM AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. INSTALL IN ACCORDANCE WITH THE FLORIDA BUILDING RESIDENTIAL CODE 2023, 8TH EDITION, AND LOCAL ORDINANCES.

1.2 SCOPE OF WORK: PROVIDE THE FOLLOWING COMPLETE SYSTEMS: SANITARY COLLECTION, DOMESTIC HOT AND COLD WATER, AIR CONDITIONING CONDENSATE, GAS LINES, RAIN WATER, ETC.

1.3 PAY FOR ALL FEES, INSPECTIONS AND CONNECTION CHARGES REQUIRED.

1.4 VERIFY AT JOB SITE ALL SPACE CONDITIONS, DIMENSIONS WITH PIPE, FIXTURES, AND EQUIPMENT SIZES PRIOR TO FABRICATION OR INSTALLATION. COORDINATE REQUIREMENTS TO AVOID INTERFERENCE WITH OTHER TRADES.

1.5 SUBMIT SHOP DRAWINGS FOR ARCHITECT/ENGINEER & OWNER APPROVAL BEFORE PROCEEDING WITH THE PURCHASE OF INSTALLATION OF EQUIPMENT AND MATERIALS.

1.6 GUARANTEE ALL WORK FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.

1.7 PLUMBING APPLIANCES AND PLUMBING FIXTURES SHALL BE LOCATED AT OR ABOVE THE ELEVATION REQUIRED.

2.0 MATERIALS.

2.1 A WATER-HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK CLOSING VALVES ARE UTILIZED, UNLESS OTHERWISE APPROVED. THE ARRESTOR SHALL BE LOCATED WITHIN AN EFFECTIVE RANGE OF THE QUICK-CLOSING VALVE. WATER-HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010. ACCESS SHALL BE PROVIDED TO WATER HAMMER ARRESTORS.

2.2 PROVIDE DIELECTRIC FITTINGS TO CONNECT PIPING TO EQUIPMENT OF DISSIMILAR METALS. USE CLAMPS AND FASTENERS OF SIMILAR METALS AND ISOLATE THEM FROM PIPING AND SLABS TO PREVENT CORROSION.

2.3 INDIVIDUAL SHOWER AND TUB-SHOWER COMBINATION VALVES SHALL BE BALANCED-PRESSURE, THERMOSTATIC OR COMBINATION BALANCED-PRESSURE/THERMOSTATIC VALVES THAT CONFORM TO THE REQUIREMENTS OF ASSE 1016/ASME A112.1016/CSA B125.16 OR ASME A112.18.1/CSA B125.1 AND SHALL BE INSTALLED AT THE POINT OF USE. SHOWER AND TUB-SHOWER COMBINATION VALVES REQUIRED BY THIS SECTION SHALL BE EQUIPPED WITH A MEANS TO LIMIT THE MAXIMUM SETTING OF THE VALVE TO 120°F (49°C), WHICH SHALL BE FIELD ADJUSTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. IN-LINE THERMOSTATIC VALVES SHALL NOT BE UTILIZED FOR COMPLIANCE WITH THIS SECTION.

2.4 PIPING.

2.4.1 DOMESTIC HOT AND COLD WATER: CPVC OR COPPER TUBING TYPE M UNDERGROUND AND ABOVE GROUND WITH SOLDER JOINTS. WOG BRONZE VALVES 125 P.S.I. MIN. PROVIDE POLYPROPYLE SLEEVES TO SEPARATE PIPES FROM CONCRETE.

INSULATION FOR HOT WATER PIPE WITH A MINIMUM THERMAL RESISTANCE OF R-3 SHALL BE APPLIED TO THE FOLLOWING:
1. PIPING LARGER THAN 3/4"INCH NOMINAL DIAMETER.
2. PIPING SERVING MORE THAN ONE DWELLING UNIT.
3. PIPING FROM THE WATER HEATER TO KITCHEN OUTLETS.
4. PIPING LOCATED OUTSIDE THE CONDITIONED SPACE.
5. PIPING FROM THE WATER HEATER TO A DISTRIBUTION MANIFOLD.
6. PIPING LOCATED UNDER A FLOOR SLAB.
7. BURIED PIPING.
8. SUPPLY AND RETURN PIPING IN RECIRCULATION SYSTEMS OTHER THAN DEMAND RECIRCULATION SYSTEMS.
9. PIPING WITH RUN LENGTHS GREATER THAN THE MAXIMUM RUN LENGTHS FOR THE NOMINAL PIPE DIAMETER GIVEN IN TABLE R403.4.2.

ALL REMAINING PIPING SHALL BE INSULATED TO AT LEAST R-3 OR MEET THE RUN LENGTH REQUIREMENTS OF TABLE FBCR-2014, 403.4.2.

2.4.2 SANITARY WASTE AND VENT: P.V.C. DRAIN PIPE AND FITTINGS WHEN & WHERE ALLOWED BY THE LOCAL JURISDICTION.

2.4.3 A/C CONDENSATE: PVC SCHEDULE 40 PIPE AND FITTINGS.

2.5 PROVIDE THERMAL EXPANSION PROTECTION ON WATER HEATER WITH RECIRCULATION SYSTEM.

2.6 PLUMBING FIXTURES SHALL COMPLY WITH REFERENCED STANDARDS AS PER FBCP-2017, SECTIONS 406 THROUGH 421.

2.7 CLEANOUTS SHALL BE INSTALLED AT EACH FITTING WITH A CHANGE OF DIRECTION MORE THAN 45 DEGREES IN THE BUILDING SEWER, BUILDING DRAIN AND HORIZONTAL WASTE OR SOIL LINES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING. HORIZONTAL DRAINS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NOT MORE THAN 100 FEET. A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK.

2.8 HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES NO LESS THAN 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL FOR 2-½" DIAMETER AND LESS, AND NOT LESS THAN 1/8 UNIT VERTICAL IN 12 UNITS HORIZONTAL FOR DIAMETER OF 3" OR MORE.

2.9 PROVIDE ANTISCALD VALVES ON TUB / SHOWER / BIDET TO COMPLY WITH FBC – 424.3/424.5 AND 408.3.

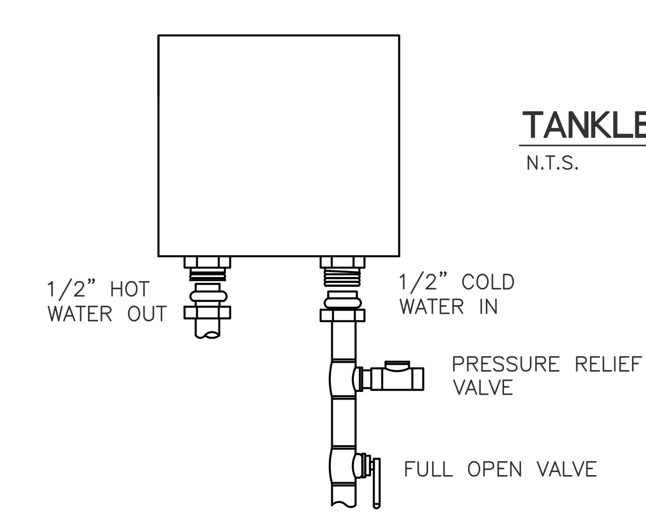
2.10 COMMERCIAL DISHWASHING MACHINES SHALL CONFORM TO ASSE 1004 AND NSF 3. RESIDENTIAL DISHWASHERS SHALL CONFORM TO NSF 184.

| ECOSMART TANKLESS WATER HEATER | | | |
|---|---|---|---|
| NO. | MODEL | MAX KW AT 240V | EFFICIENCY RATE |
| EWH-1 | ECO 8 | 8 | 0.96 |
| | | | |

USE ONLY THE COMPRESSION FITTING RING AND NUT PROVIDED WITH EACH UNIT AS SHOWN ABOVE.
COMPRESSION FITTINGS ARE DESIGNED EXCLUSIVELY FOR THIS UNIT, DO NOT USE A DIFFERENT TYPE OF THREADED COUPLING.

ONLY VERTICAL ISTALLATION.
BEFORE TURNING ON THE ELECTRICITY, LET THE WATER RUN FOR 20 SECONDS THROUGH THE UNIT. CHECK LOCAL CODES FOR APPROPRIATE WIRE GAUGE AND CIRCUIT BREAKER.

A- THE UNIT COMES WITH 1/2'' COMPRESSION FITTINGS, DO NOT SOLDER PIPE TO INLET OR OUTLET.
B- FLUSH SUPPLYING LINE BEFORE CONNECTING THE UNIT, TO REMOVE ANY PARTICLES LEFT IN LINE.




**TANKLESS WATER HEATER**
N.T.S.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ORIGINAL ISSUE DATE: 12-26-2024
PLOT DATE: 2025-03-11

## PROPANE TANK #1 DEMAND

| No | FIXTURE NAME: | BTUH | QTY. | TOTAL BTUH: |
|---|---|---|---|---|
| 1 | GAS WATER HEATER | 199,000 | 1 | 199,000 |
| 2 | GAS WATER HEATER | 199,000 | 1 | 199,000 |
| 3 | GAS TOP RANGE | 120,000 | 1 | 120,000 |
| 4 | GAS TOP RANGE | 120,000 | 1 | 120,000 |
| 5 | GAS B.B.Q. | 90,000 | 1 | 90,000 |
| 6 | GAS FIRE PIT | 30,000 | 1 | 30,000 |
| | | | | |

TOTAL BTU/HR: 758,000 (2500 Btu/ft3)

SPECIFIC GRAVITY GAS: 1.5 PRESSURE DROP: 1 PSI
GAS PRESSURE : 2 PSI LONGEST RUN: 83'

| | |
|---|---|
| A | PER TABLE G2413.4(11) FBCR–PROPANE FUEL GAS, SCHEDULE 40 METALIC PIPE. |
| | |

SPECIFIC GRAVITY GAS: 1.5 PRESSURE DROP: 0.5" WC
GAS PRESSURE : LESS THANT 2 PSI LONGEST RUN: 154' FT

| | |
|---|---|
| B | PER TABLE G2413.4(12) FBCR, PROPANE FUEL GAS, SCHEDULE 40 METALIC PIPE. |

## PROPANE TANK #2 DEMAND

| No | FIXTURE NAME: | BTUH | QTY. | TOTAL BTUH: |
|---|---|---|---|---|
| 7 | GAS WATER HEATER | 199,000 | 1 | 199,000 |
| 8 | GAS WATER HEATER | 199,000 | 1 | 199,000 |
| 9 | EMERGENCY GENERATOR | 764,000 | 1 | 764,000 |
| 10 | GAS JACUZZI HEATER | 400,000 | 1 | 400,000 |
| | | | | |

TOTAL BTU/HR: 1,562,000 (2500 Btu/ft3)

SPECIFIC GRAVITY GAS: 1.5 PRESSURE DROP: 1 PSI
GAS PRESSURE : 2 PSI LONGEST RUN: 161' FT

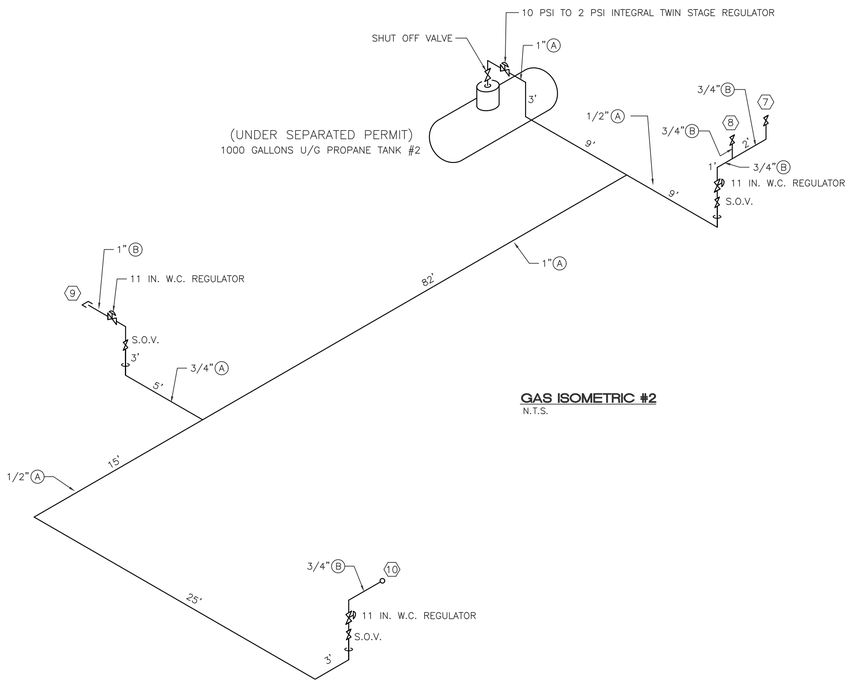
| | |
|---|---|
| A | PER TABLE G2413.4(11) FBCR–PROPANE FUEL GAS, SCHEDULE 40 METALIC PIPE. |
| | |

SPECIFIC GRAVITY GAS: 1.5 PRESSURE DROP: 0.5" WC
GAS PRESSURE : LESS THANT 2 PSI LONGEST RUN: 39' FT

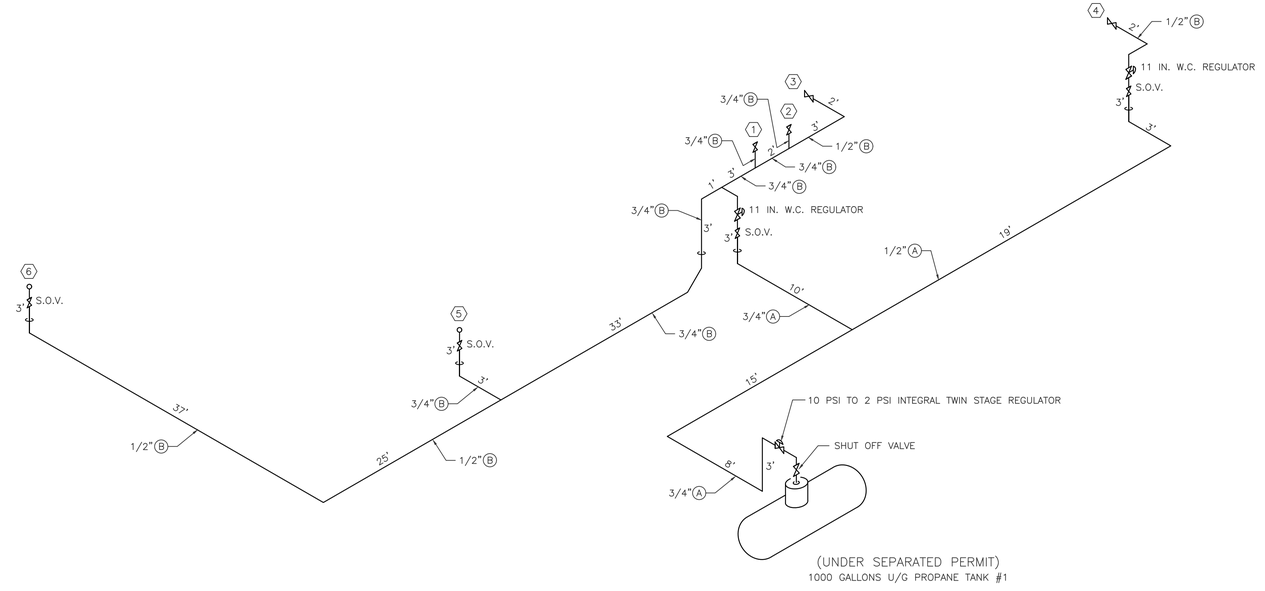
| | |
|---|---|
| B | PER TABLE G2413.4(12) FBCR, PROPANE FUEL GAS, SCHEDULE 40 METALIC PIPE. |

### GENERAL GAS NOTES:

1) **ALL INSTALLATIONS SHALL BE AS PER 2023 FBC/G & 2020 NFPA 58.**
2) DIMENSIONS SHOWN FOR CALCULATION ONLY, NOT FOR FABRICATION
3) ALL GAS VALVES SHALL BE INSTALLED BELOW CEILING SPACE IN AN ACCESSIBLE AND VENTILATED AREA.
4) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH LOCAL GAS COMPANY.
5) CONTRACTOR SHALL INSTALL DRAIN LEG AT BOTTOM OF ALL VERTICAL GAS LINES.
6) UNDERGROUND PIPING SHALL BE INSTALLED WITH ENOUGH CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE.
7) GAS PIPING TO HOB / IF ANY PIPING IS TO BE RUN UNDER SLAB IT. MUST COMPLY WITH FBC/G SECTION 404.
8) PROVIDE OUTDOOR VENT FOR SLEEVE
9) METALLIC PIPE OR TUBING EXPOSED TO CORROSIVE ACTION, SUCH AS SOIL CONDITION OR MOISTURE, SHALL BE PROTECTED IN AN APPROVED MANNER. ZINC COATINGS (GALVANIZING) SHALL NOT BE DEEMED ADEQUATE PROTECTION FOR GAS PIPING UNDERGROUND. WHERE DISSIMILAR METALS ARE JOINED UNDERGROUND, AN INSULATING COUPLING OR FITTING SHALL BE USED. PIPING SHALL NOT BE LAID IN CONTACT WITH CINDERS. (FBCR G2415.9 (404.9))
10) GAS PIPING SHALL NOT PENETRATE BUILDING FOUNDATION WALLS AT ANY POINT BELOW GRADE AS PER FBC G2415.4.
11) PLASTIC PIPING SHALL BE INSTALLED OUTDOORS ONLY. FBCR G2415.15.1
12) FBC G2415.15.3 A YELLOW INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO UNDERGROUND NONMETALLIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT EACH END OF THE NONMETALLIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR DIRECT BURIAL.




GAS ISOMETRIC #2
N.T.S.




GAS ISOMETRIC #1
N.T.S.

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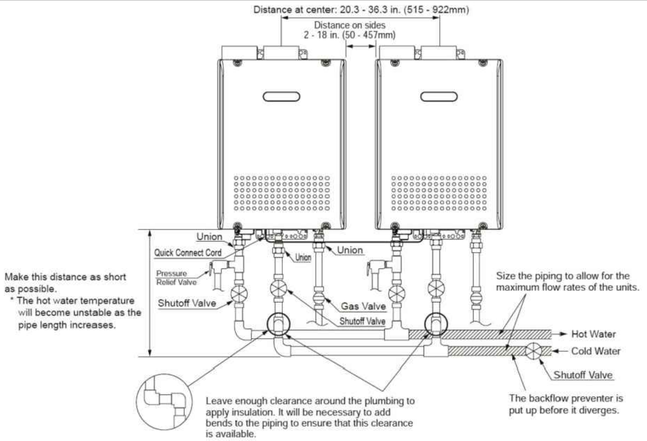
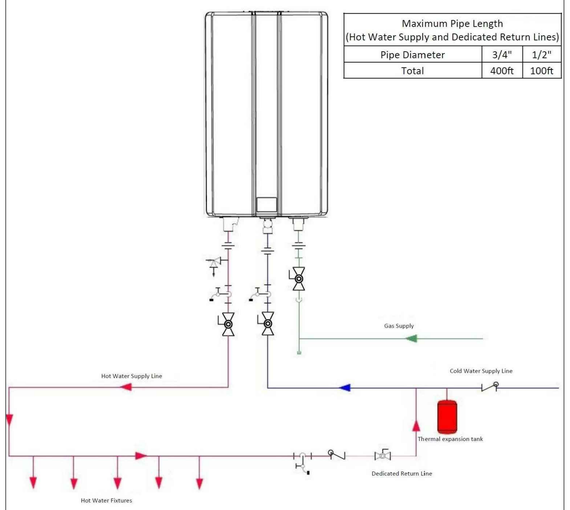


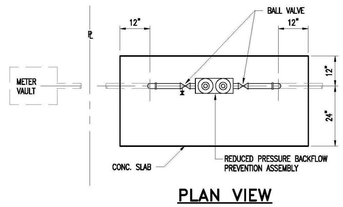

- Insulate the hot water piping to prevent heat loss. Insulate and apply heating materials to the cold water supply piping to prevent heat loss and freezing of pipes when exposed to excessively cold temperatures.



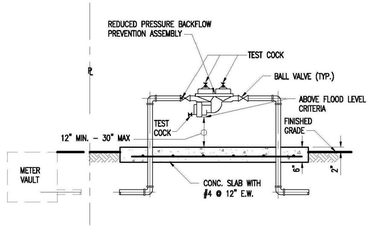

| Maximum Pipe Length (Hot Water Supply and Dedicated Return Lines) | | |
|---|---|---|
| Pipe Diameter | 3/4" | 1/2" |
| Total | 400ft | 100ft |

The condensate drain pipe (along its entire length) must be at least the same diameter as the drain line, (1/2 nch NPT). Refer to the Condensate section in the venting instructions section of this manual.

## GAS WATER HEATER INSTALLATION DETAIL
N.T.S.



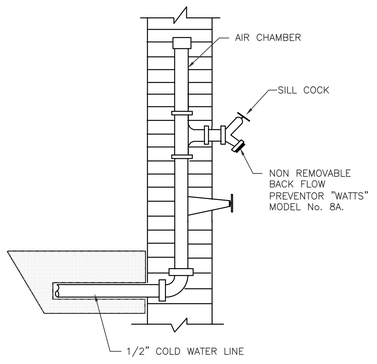

## PLAN VIEW



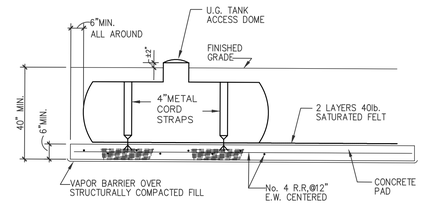

## ELEVATION VIEW

| | | | |
|---|---|---|---|
| | | | |
| | | GUARD POST DETAIL | WS 4.5 |
| | | ITEM | CROSS REF. / SPEC. REF. |

| MIAMI-DADE COUNTY Delivering Excellence Every Day | ISSUE DATE | APPROVED BY | STANDARD DETAIL<br>REDUCED PRESSURE ZONE BACKFLOW PREVENTER FOR WATER SERVICE 3/4" THRU 2" | WS 4.18<br>SHEET 1 or 5 |
|---|---|---|---|---|
| | 6/26/2012 | F.A. | | |




## HOSE BIBB DETAIL
N.T.S.




NOTES:

1. PROVIDE AND INSTALL A NEW ASME UNDERGROUND LP GAS CONTAINERS, IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF NFPA 54 AND MANUFACTURER WITH ALL REQUIRED SAFETY AND OPERATIONAL INSTRUMENTS AND VALVES. TANK SHALL BE INSTALLED WITH MINIMUM SEPARATION OF 10 FEET FROM BUILDING AND PROPERTY LINES.
2. ALL EXPOSED METAL INCLUDING THE TANK SHALL BE COATED WITH TWO COATS OF FLEXI-BLACK PRIOR TO BACK FILL.
3. ALL PIPING BELOW GRADE FROM THE TANK TO BUILDING SHALL BE INSTALLED IN CONDUITS (SLEEVES).

## UNDERGROUND TANKS DETAIL
N.T.S.

(SEE STRUCTURAL PLANS FOR BUOYANCY CALCULATIONS)

## UNDERGROUND TANKS CORROSION PROTECTION NOTES

A CORROSION PROTECTION SYSTEM SHALL BE INSTALLED ON NEW INSTALLATIONS OF UNDERGROUND STEEL CONTAINERS.
THE CORROSION PROTECTION SYSTEM SHALL INCLUDE:

(1) A CONTAINER COATING COMPLYING WITH NFPA 58, SECTION 5.2.1.11.
(2) A CATHODIC PROTECTION SYSTEM THAT CONSISTS OF A SACRIFICIAL ANODE(S).
(3) A MEANS TO TEST THE PERFORMANCE OF THE CATHODIC PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 17, SECTION 6.19.3.

PRIOR TO BURIAL, THE CONTAINER SHALL BE VISUALLY EXAMINED FOR DAMAGE TO THE COATING. DAMAGED AREAS SHALL BE REPAIRED WITH A COATING RECOMMENDED FOR UNDERGROUND SERVICE AND COMPATIBLE WITH THE EXISTING COATING.

CONTAINERS SHALL BE SET LEVEL AND SHALL BE SURROUNDED BY EARTH OR SAND FIRMLY TAMPED IN PLACE. BACKFILL SHALL BE FREE OF ROCKS AND ABRASIVES.

CATHODIC PROTECTION SYSTEMS INSTALLED IN ACCORDANCE WITH (1) ABOVE SHALL BE MONITORED BY TESTING AND THE RESULTS DOCUMENTED. CONFIRMING TESTS SHALL BE DESCRIBED BY ONE OF THE FOLLOWING:

(1) PRODUCING A VOLTAGE OF −0.85 VOLTS OR MORE NEGATIVE, WITH REFERENCE TO A SATURATED COPPER−COPPER SULFATE HALF CELL
(2) PRODUCING A VOLTAGE OF −0.78 VOLTS OR MORE NEGATIVE, WITH REFERENCE TO A SATURATED KCL CALOMEL HALF CELL
(3) PRODUCING A VOLTAGE OF −0.80 VOLTS OR MORE NEGATIVE, WITH REFERENCE TO A SILVER−SILVER CHLORIDE HALF CELL.
(4) ANY OTHER METHOD DESCRIBED IN APPENDIX D OF TITLE 49 OF THE CODE OF FEDERAL REGULATIONS, PART 192.

SACRIFICIAL ANODES INSTALLED IN ACCORDANCE WITH (1) ABOVE SHALL BE TESTED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

(1) UPON INSTALLATION OF THE CATHODIC PROTECTION SYSTEM, UNLESS PROHIBITED BY CLIMACTIC CONDITIONS, IN WHICH CASE TESTING SHALL BE DONE WITHIN 180 DAYS AFTER THE INSTALLATION OF THE SYSTEM.
(2) FOR CONTINUED VERIFICATION OF THE EFFECTIVENESS OF THE SYSTEM, 12 TO 18 MONTHS AFTER THE INITIAL TEST.
(3) UPON SUCCESSFUL VERIFICATION TESTING AND IN CONSIDERATION OF PREVIOUS TEST RESULTS, PERIODIC FOLLOW−UP TESTING SHALL BE PERFORMED AT INTERVALS NOT TO EXCEED 36 MONTHS.
(4) SYSTEMS FAILING A TEST SHALL BE REPAIRED AS SOON AS PRACTICAL UNLESS CLIMACTIC CONDITIONS PROHIBIT THIS ACTION, IN WHICH CASE THE REPAIR SHALL BE MADE NOT MORE THAN 180 DAYS THEREAFTER. THE TESTING SCHEDULE SHALL BE RESTARTED AS REQUIRED IN NFPA 58, SECTIONS 6.19.3.2(1) AND 6.19.3.2(2), AND THE RESULTS SHALL COMPLY WITH 6.19.3.2.
(5) DOCUMENTATION OF THE RESULTS OF THE TWO MOST RECENT TESTS SHALL BE RETAINED.

## PLUMBING SYMBOL LEGEND

| | | |
|---|---|---|
| ——— | SAN. | NEW SANITARY LINE |
| —— - —— | HW | NEW HOT WATER LINE |
| - - - - - | HW | NEW HOT WATER LINE |
| —— — —— | CW | NEW COLD WATER LINE |
| — — — — | VT | NEW VENT LINE |
| ——CD—— | CD | CONDENSATE LINE |
| ——PD—— | PD | P&T RELIEF VALVE |
| ⊣ | CO | CLEAN OUT |
| | WCO | WALL CLEAN OUT |
| ⊗ | FCO | FLOOR CLEAN OUT |
| ⋈ | GV | GATE VALVE |
| | AAV | AIR ADMITTANCE VALVE |
| → | | ELBOW DOWN |
| ○ | | ELBOW UP |
| ⊕ | | TEE DOWN |

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