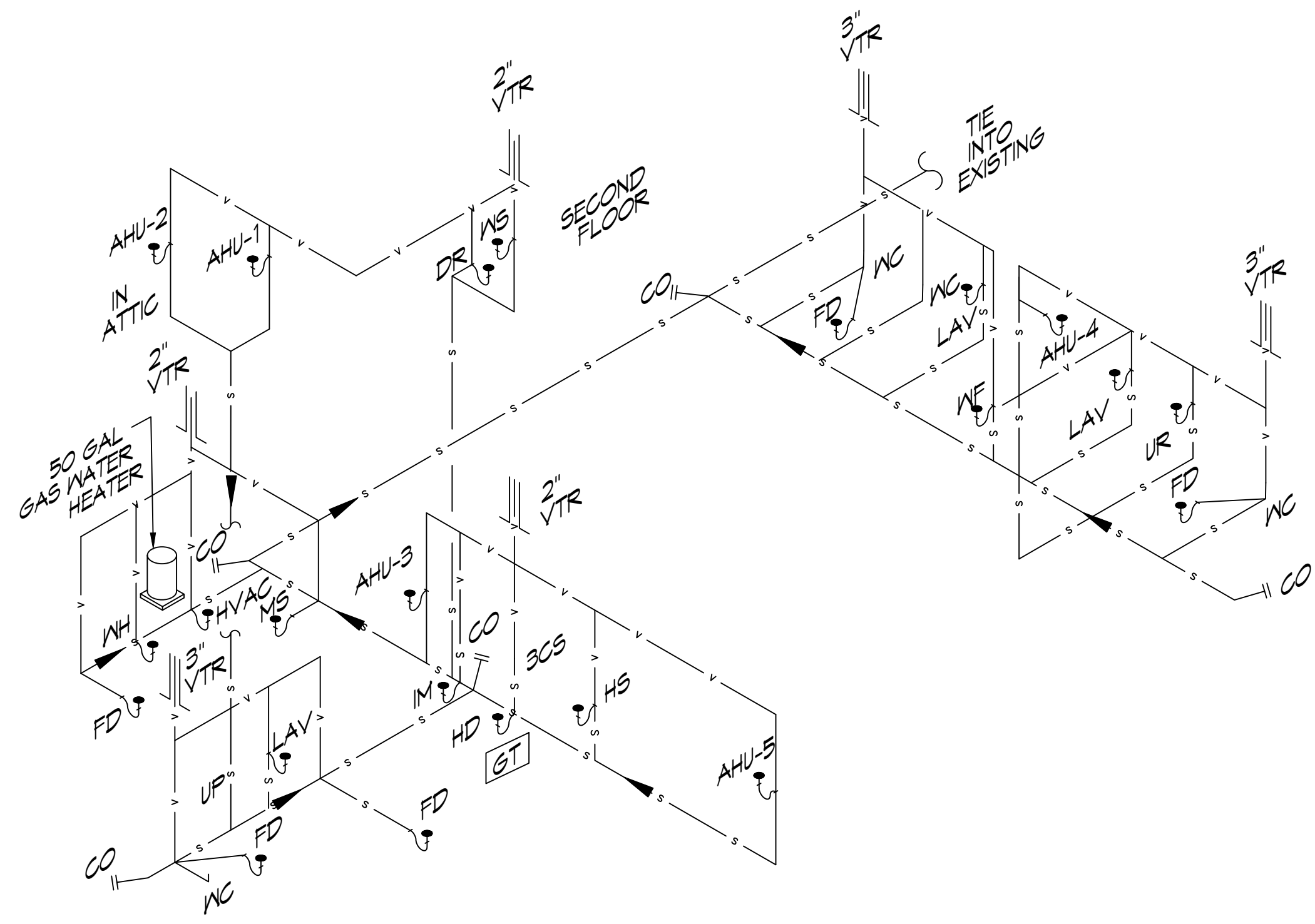
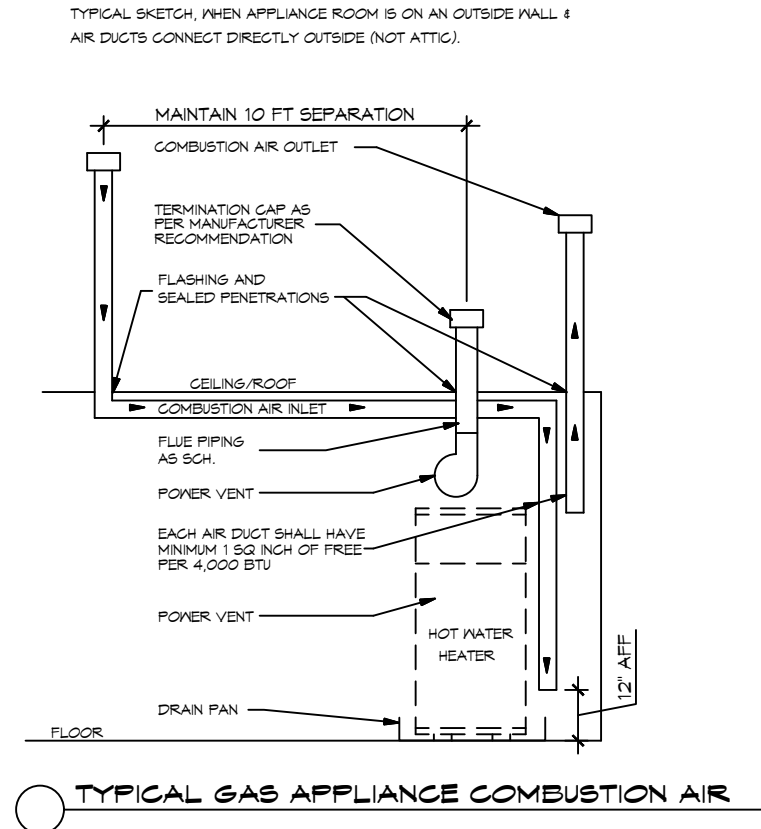


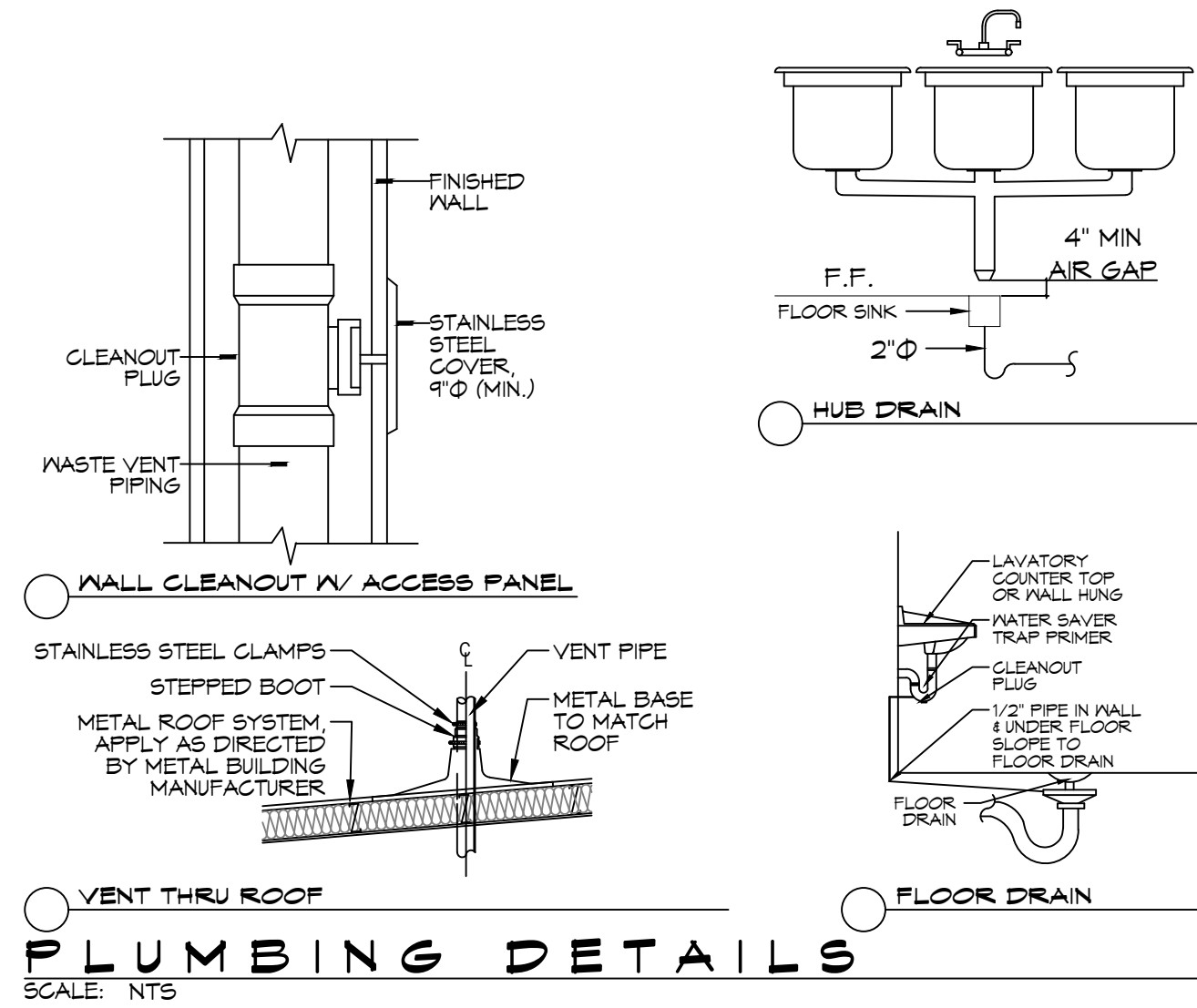
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 PLOT DATE: 8/15/2023 10:58:10 AM
 PLOT BY: J. B. BRYAN



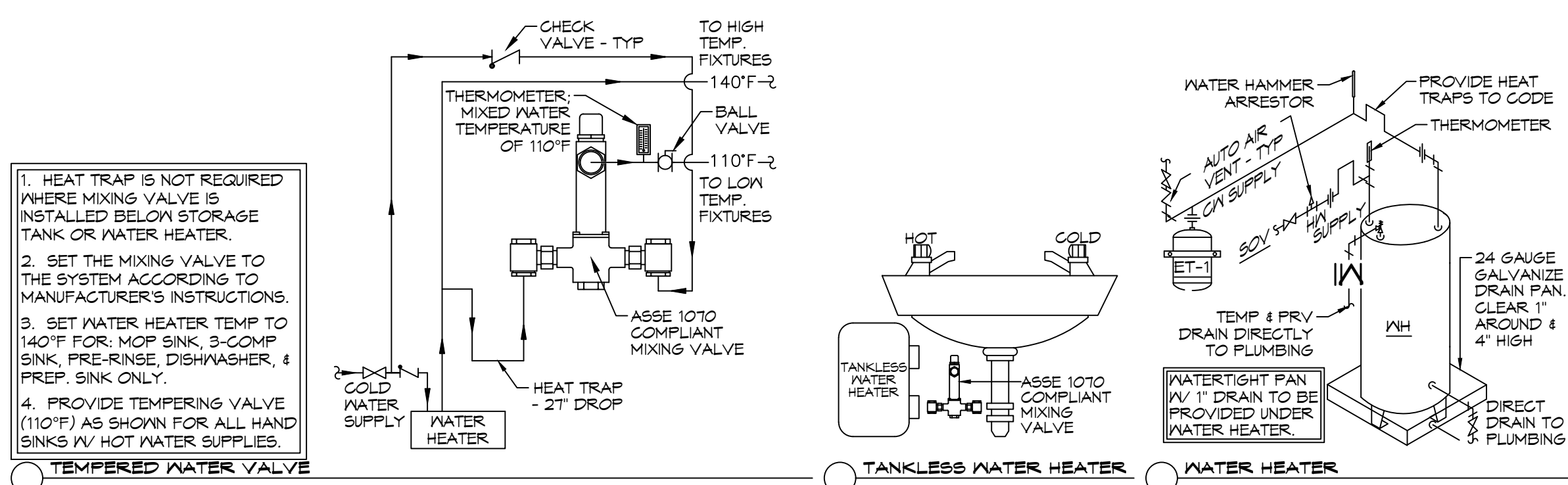
17 PLUMBING RISER DIAGRAM
SCALE: N.T.S.



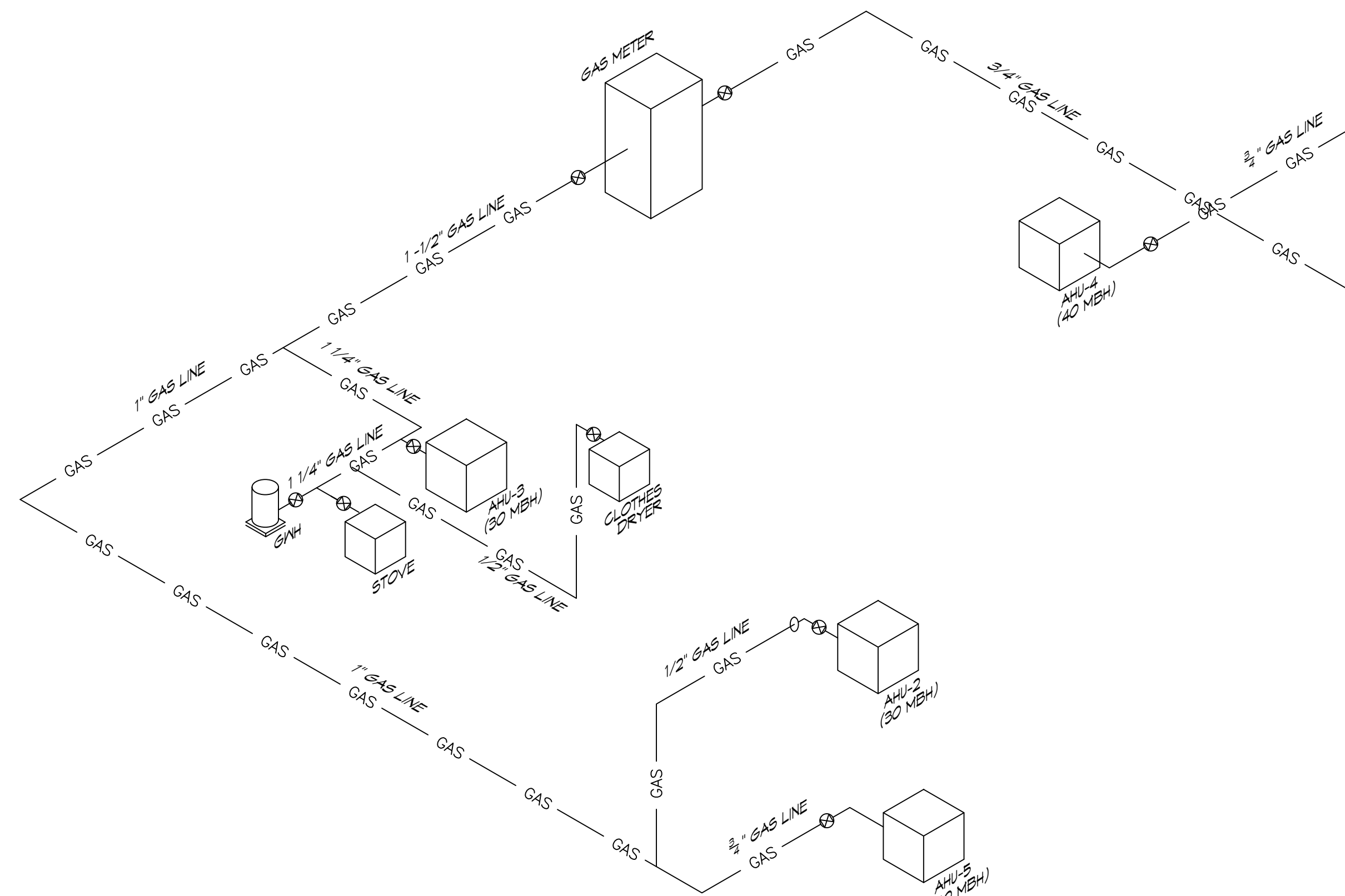
TYPICAL GAS APPLIANCE COMBUSTION AIR



PLUMBING DETAILS
SCALE: N.T.S.



WATER HEATER DETAILS
SCALE: N.T.S.



18 GAS RISER DIAGRAM
SCALE: N.T.S.

GAS EQUIPMENT SCHEDULE

| DESCRIPTION | BTU INPUT |
|---------------|-----------|
| RANGE/STOVE | 270,000 |
| CLOTHES DRYER | 22,000 |
| WATER HEATER | 38,000 |
| AHU-2 | 30,000 |
| AHU-3 | 30,000 |
| AHU-4 | 40,000 |
| AHU-5 | 40,000 |
| TOTAL BTU | 470,000 |

NOTES:
 1. ALL GAS PIPE SHALL BE SCHEDULE 40 BLACK STEEL PIPE. ALL PIPE INSTALLED ON ROOF SHALL BE SUPPORTED ON A PIPE PIER SUPPORT SYSTEM. WOOD BLOCKING NOT ALLOWED.
 2. ALL GAS PIPING IS SIZED FOR A LOW PRESSURE SYSTEM. (< 2 psig OR LESS AND A PRESSURE DROP OF 0.5in. OF WATER COLUMN.)

GENERAL PLUMBING NOTES

1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. THE SYSTEM SHALL INCLUDE HOT AND COLD WATER PIPING, SEWER AND VENT PIPING, INSULATION, WATER HEATER, HANGERS, VALVES, SUPPORTS WITHOUT ANY RESTRICTION, CUT AND PATCH AS REQUIRED TO INSTALL PIPES.
2. ALL WORK AND MATERIAL SHALL CONFORM STRICTLY TO THE LATEST LOCAL, CITY, PARRIS, STATE AND NATIONAL GOVERNING CODES.
3. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS AND SIZES PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL PAY NECESSARY FEES FOR THE UTILITIES CONNECTIONS.
4. CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING INVERTS AND SET NEW INVERTS OF SEWERAGE AND DRAINAGE PIPES.
5. SEWERAGE LINES 3-INCH AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINE 4-INCH AND LARGER SHALL BE 1/8" PER FOOT.
6. TEST ALL PIPING AT REQUIRED PRESSURE.
7. ALL PLUMBING SHALL BE CLOSELY COORDINATED WITH STRUCTURAL SYSTEMS MECHANICAL SYSTEMS AND ELECTRICAL SYSTEMS TO INSURE NO TRADES WILL CONFLICT WITH EACH OTHER.
8. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DOORS, WINDOWS, WALLS, FIXTURES, ETC.
9. ALL WATER MAINS AND PIPING NOT RISKY FOR CLARITY, ALL LOCATIONS FIELD VERIFIED.
10. DOMESTIC HOT AND COLD WATER PIPING AND FITTINGS UNDER SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE K SOFT ANNEAL. NO JOINTS SHALL BE ALLOWED UNDER THE SLAB.
11. DOMESTIC WATER PIPING AND FITTINGS ABOVE THE SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE L. HARD DRAWN WITH COPPER PRESSURE TYPE FITTINGS, ANSI B16.22. THE JOINTS SHALL BE SOLDERED TYPE USING ASTM B32, ALLOY GRADE #8A (#8-S) SOLDER.
12. SOL. WASTE, VENT PIPING AND FITTINGS ABOVE THE SLAB SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH BELL AND SPIGOT ENDS AND ONE PIECE NEOPRENE INSERT TYPE GASKET. USE PVC SCHEDULE 40 OR ABS D.V.V. PIPES AND FITTINGS WHERE PERMITTED BY CODE.
13. ALL WATER PIPING AND FITTINGS ABOVE THE FLOOR SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION AND JACKET.
14. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
15. ALL PLUMBING LINES RISKY ARE DIAGRAMMATIC.
16. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO START OF WORK.
17. ALL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES.
18. CONTRACTOR SHALL PROVIDE TRAP SEAL PRIMERS. FIELD VERIFY LOCATION OF TRAP SEAL VALVE IN ADEQUATELY SIZED LINE WITH CONSISTENT USAGE. PLACE VALVE IN ACCESSIBLE LOCATION FOR MAINTENANCE.
19. REFER TO MANUFACTURER EQUIPMENT CUT-RISERS FOR FIXTURE MOUNTING DIMENSIONS.
20. CONTRACTOR TO PROVIDE BACKFLOW PREVENTION DEVICES AS REQ'D ON ALL ICE MACHINES, SODA DISPENSERS & ANY OTHER EQUIPMENT DEMAND APPLICABLE BY GOVERNING CODES.

GENERAL DOMESTIC WATER NOTES

1. PROVIDE CHAMBERS ON ALL DOMESTIC WATER BRANCH PIPING SERVING FIXTURES.
2. PROVIDE ISOLATION VALVES IN HOT AND COLD WATER PIPING TO ALL FIXTURE GROUPS.
3. ALL FIXTURES SHALL BE INSTALLED LEVEL AND TRUE, CENTER FIXTURES WHERE APPLICABLE, FOR INSTANCE WATER CLOSETS IN NON-ADA STALLS.
4. PROVIDE THERMOSTATIC MIXING VALVES TO ALL FIXTURES SUPPLIED WITH HOT WATER. LOCATE VALVE ABOVE CEILING WITH THE HOT WATER PIPED TO THE FIXTURE.

PLUMBING FIXTURE SCHEDULE

| MK | DES. | TYPE | ROUGH - IN - SIZE | | | | NOTE |
|-----|-------------------|-----------|-------------------|------|--------|--------|-------|
| | | | WASTE | VENT | COLD | HOT | |
| WC | WATER CLOSET | VALVE | 3" | 3" | 1-1/2" | - | 3 |
| UR | URINAL | VALVE | 3" | 2" | 3/4" | - | 3 |
| LAV | LAVATORY | WALL HUNG | 2" | 2" | 3/4" | 3/4" | 1,2,3 |
| FD | FLOOR DRAIN | - | 3" | 2" | - | - | 4 |
| BCS | THREE COMP SINK | - | 2" | 2" | 2-1/2" | 2-1/2" | 3 |
| HS | HAND SINK | - | 3" | 2" | 3/4" | 3/4" | - |
| HB | HOSE BIB | VALVE | - | - | 3/4" | - | - |
| GH | WATER HEATER | - | 3/4" | 2" | 3/4" | 3/4" | - |
| AHU | AIR HANDLER DRAIN | - | 3/4" | 2" | - | - | - |

- NOTES:**
1. INSULATE PIPING FOR HANDICAP FIXTURES.
 2. PROVIDE CHAIR CARRIER FOR WALL HUNG FIXTURES.
 3. H.C. - HANDICAP FIXTURE
 4. INSTALL CONTINUOUS DRIP VALVE ON ALL FLOOR DRAINS.
 5. FIXTURES SELECTED BY OWNER.

LEGEND

- CO - CLEAN OUT
- VTR - VENT THRU ROOF
- HD - HUB DRAIN
- IM - ICE MAKER
- FR - ??????
- DN - DOWN
- WS - WASHER
- MS - MOP SINK
- PF - POT FILLER
- NG - NATURAL GAS
- DR - DRAIN
- MS - MOP SINK
- VENTILATION
- SEWERAGE
- GATE VALVE

ALL PLUMBING LINES ARE DRAWN DIAGRAMMATICALLY FOR CLARITY.

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| # | DESCRIPTION | DATE |
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SHEET TITLE:
 RISER DIAGRAM & DETAILS
 DRAWING NUMBER:
P103
 SHEET No: 7 of 14