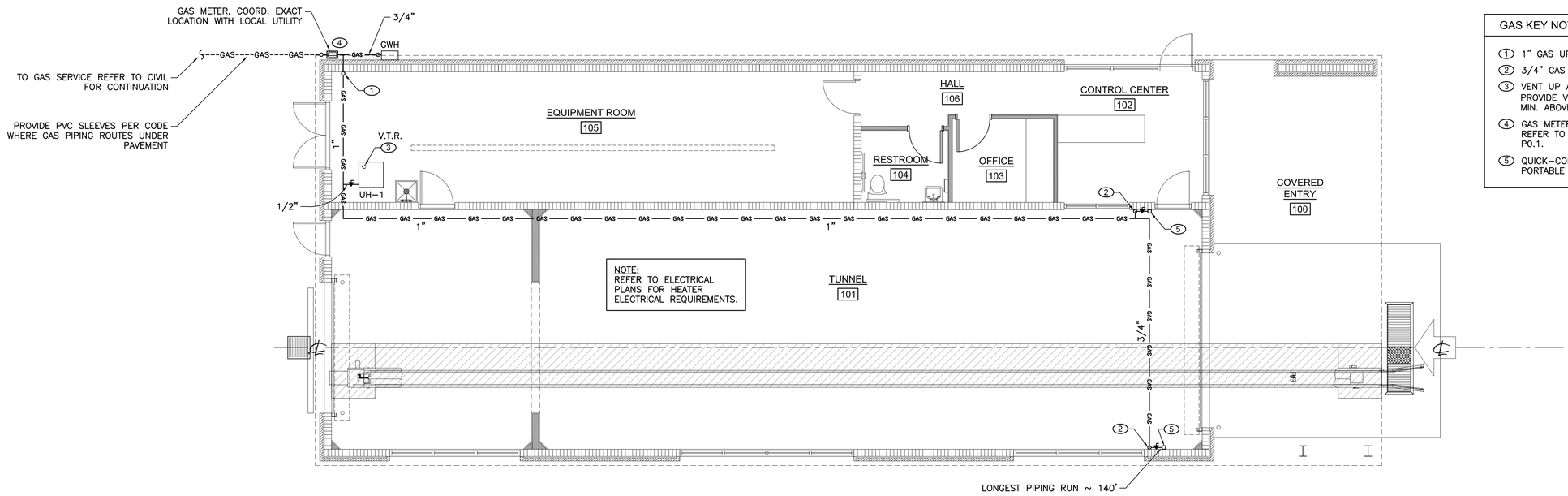
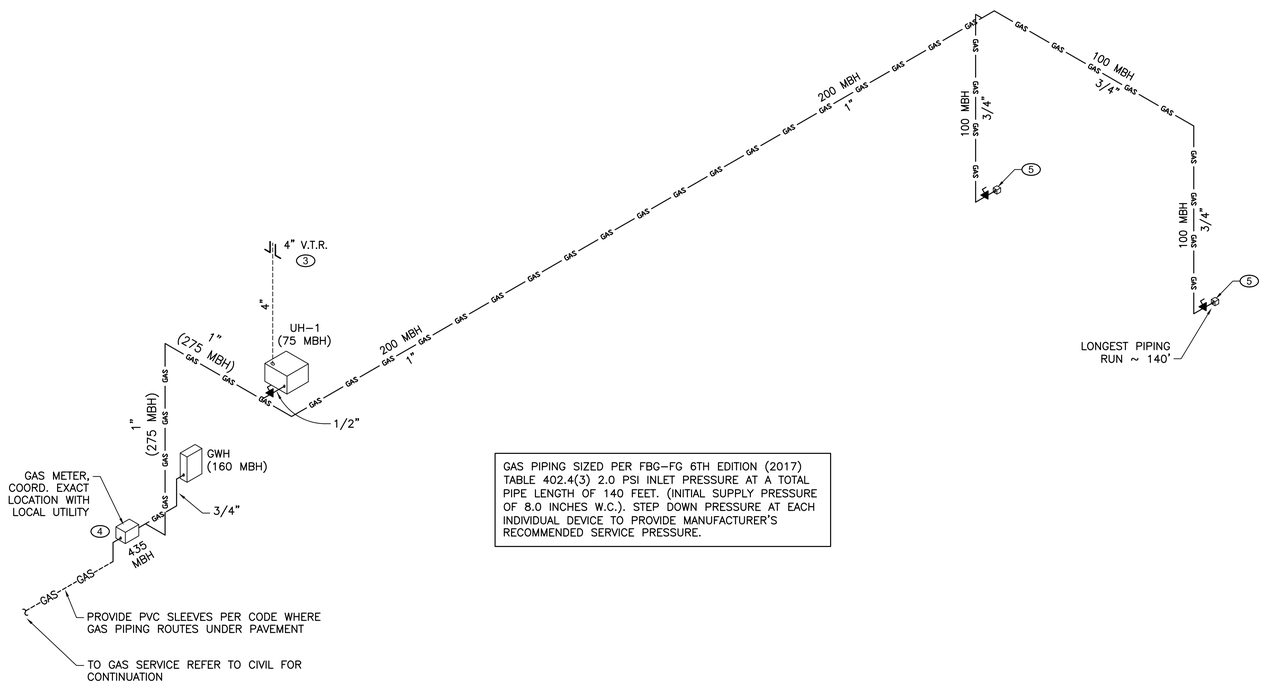


1 GAS1.0 **GAS PIPING PLAN**

3/16" = 1'-0"

GAS KEY NOTES (THIS SHEET ONLY)

1. 1" GAS UP
2. 3/4" GAS DOWN
3. VENT UP AND THRU ROOF PER MFR. PROVIDE VENT CAP. FLUE SHALL EXTEND 24" MIN. ABOVE ROOF.
4. GAS METER AND MAIN SHUT-OFF VALVE. REFER TO GAS SERVICE DETAIL ON SHEET P0.1.
5. QUICK-CONNECT GAS CONNECTION FOR PORTABLE HEATER



GAS PIPING SIZED PER FBG-FG 6TH EDITION (2017) TABLE 402.4(3) 2.0 PSI INLET PRESSURE AT A TOTAL PIPE LENGTH OF 140 FEET. (INITIAL SUPPLY PRESSURE OF 8.0 INCHES W.C.). STEP DOWN PRESSURE AT EACH INDIVIDUAL DEVICE TO PROVIDE MANUFACTURER'S RECOMMENDED SERVICE PRESSURE.

2 GAS1.0 **GAS RISER**

SCALE: N.T.S.

GAS PLUMBING LEGEND

——— GAS ———	ABOVE-GRADE GAS PIPING
-----GAS-----GAS-----	BELOW-GRADE GAS PIPING
- - - - - - - - - - - - -	VENT PIPING
	GAS METER
V.T.R.	VENT THRU ROOF
	GAS COCK VALVE

GENERAL NOTES:

1. COORDINATE ALL EQUIPMENT REQUIREMENTS AND INSTALLATION WITH EQUIPMENT MANUFACTURER AND SHOP DRAWINGS.
2. PIPING RUNS INDICATED ARE DIAGRAMMATIC ONLY, INTENDED TO SHOW CONNECTIVITY BETWEEN EQUIPMENT, FIXTURES, AND OTHER PLUMBING COMPONENTS. CONTRACTOR SHALL COORDINATE INSTALLATION AND ACTUAL ROUTING OF ALL PIPING WITH EQUIPMENT REQUIREMENTS AND EQUIPMENT VENDOR SHOP DRAWINGS. CONTRACTOR SHALL COORDINATE ALL PIPING INSTALLATION WITH UTILITIES, ELECTRICAL, MECHANICAL, BUILDING FOUNDATIONS, ETC.

GAS FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	MANUFACTURER	MODEL #	AREA SERVED	VOLTAGE/ PHASE	HEAT SOURCE	HEATING CAPACITY	DESCRIPTION
UH-1	HIGH EFFICIENCY UNIT HEATER	REZNOR	UDAP75	EQUIPMENT ROOM 105	120/1	NATURAL GAS	75 MBH	POWER-VENTED AXIAL FAN UNIT HEATER BY "REZNOR", SINGLE-STAGE HEAT (75,000 BTU/H), PROVIDE CHAIN HANGING KIT, INSTALL W/ CLEARANCES PER MFR.
GWH	TANKLESS GAS WATER HEATER	RINNAI	RUS75e	TUNNEL 112	120/1	NATURAL GAS	160 MBH	ULTRA SERIES TANKLESS GAS W.H. BY "RINNAI", OUTDOOR INSTALLATION.

GENERAL GAS PIPING NOTES

1. ALL PIPING SHALL BE SCHEDULE 40 METALLIC PIPE, UNLESS OTHERWISE NOTED. INSTALL GAS PIPING, APPLIANCES, AND SPECIALTIES IN ACCORDANCE WITH FBC-FUEL GAS-6TH EDITION (2017), NFPA-54.
2. CLEARANCES: UNDERGROUND GAS PIPING SHALL BE INSTALLED WITH SUFFICIENT CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE TO AVOID CONTACT THEREWITH, TO ALLOW MAINTENANCE, AND TO PROTECT AGAINST DAMAGE FROM PROXIMITY TO OTHER STRUCTURES. IN ADDITION, UNDERGROUND PLASTIC PIPING SHALL BE INSTALLED WITH SUFFICIENT CLEARANCE OR SHALL BE INSULATED FROM ANY SOURCE OF HEAT SO AS TO PREVENT THE HEAT FROM IMPAIRING THE SERVICEABILITY OF THE PIPE.
3. COVER REQUIREMENTS: UNDERGROUND PIPING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF 18 IN. (460MM) OF COVER. WHERE EXTERNAL DAMAGE TO THE PIPE IS NOT LIKELY TO RESULT, THE MINIMUM COVER SHALL BE 12 IN (300MM). WHERE A MINIMUM OF 12 IN (300MM) OF COVER CANNOT BE PROVIDED, THE PIPE SHALL BE INSTALLED IN CONDUIT OR BRIDGED (SHIELDED).
4. THROUGH FOUNDATION WALL: UNDERGROUND PIPING, WHERE INSTALLED THROUGH THE OUTER FOUNDATION OR BASEMENT WALL OF A BUILDING, SHALL BE ENCASED IN A PROTECTIVE PIPE. THE SPACE BETWEEN THE GAS PIPING AND THE BUILDING SHALL BE SEALED TO PREVENT ENTRY OF GAS OR WATER.
5. PIPING UNDERGROUND BENEATH BUILDINGS: WHERE THE INSTALLATION OF GAS PIPING UNDERGROUND BENEATH BUILDINGS IS UNAVOIDABLE, THE PIPING SHALL BE ENCASED IN AN APPROVED CONDUIT DESIGNED TO WITHSTAND THE SUPERIMPOSED LOADS. THE CONDUIT SHALL EXTEND INTO A NORMALLY USABLE AND ACCESSIBLE PORTION OF THE BUILDING AND, AT THE POINT WHERE THE CONDUIT TERMINATES IN THE BUILDING, THE SPACE BETWEEN THE CONDUIT AND THE GAS PIPING SHALL BE SEALED TO PREVENT THE POSSIBLE ENTRANCE OF ANY GAS LEAKAGE WHERE THE END SEALING IS OF A TYPE THAT WILL RETAIN THE FULL PRESSURE OF THE PIPE, THE CONDUIT SHALL BE DESIGNED FOR THE SAME PRESSURE AS THE PIPE. THE CONDUIT SHALL EXTEND AT LEAST 4 IN (100MM) OUTSIDE THE BUILDING, BE VENTED ABOVE GRADE TO THE OUTSIDE, AND BE INSTALLED SO AS TO PREVENT THE ENTRANCE OF WATER AND INSECTS.
6. CONNECTION OF PLASTIC PIPING: PLASTIC PIPE SHALL BE INSTALLED OUTSIDE, UNDERGROUND ONLY.
7. CONNECTIONS BETWEEN METALLIC AND PLASTIC PIPING: CONNECTIONS MADE OUTSIDE AND UNDERGROUND BETWEEN METALLIC AND PLASTIC PIPING SHALL BE MADE ONLY WITH ASTM D 2513, STANDARD SPECIFICATION FOR THERMOPLASTIC GAS PRESSURE PIPE, TUBING, AND FITTINGS, CATEGORY I TRANSITION FITTINGS.
8. HANGERS, SUPPORTS, AND ANCHORS: PIPING SHALL BE SUPPORTED WITH PIPE HOOKS, METAL PIPE STRAPS, BANDS, BRACKETS, OR HANGERS SUITABLE FOR THE SIZE OF PIPING, OF ADEQUATE STRENGTH AND QUALITY, AND LOCATED AT INTERVALS SO AS TO PREVENT OR DAMP OUT EXCESSIVE VIBRATION. PIPING SHALL BE ANCHORED TO PREVENT UNDUE STRAINS ON CONNECTED EQUIPMENT AND SHALL NOT BE SUPPORTED BY OTHER PIPING. PIPE HANGERS AND SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF ANSI/MSS SP-58. PIPE HANGERS AND SUPPORTS-MATERIALS, DESIGN AND MANUFACTURE.
9. OTHER OCCUPANCIES: IN OTHER THAN INDUSTRIAL OCCUPANCIES AND WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION, GAS PIPING EMBEDDED IN CONCRETE FLOOR SLABS CONSTRUCTED WITH PORTLAND CEMENT SHALL BE SURROUNDED WITH A MINIMUM OF 1 1/2 IN (38MM) OF CONCRETE AND SHALL NOT BE IN PHYSICAL CONTACT WITH OTHER METALLIC STRUCTURES SUCH AS REINFORCING RODS OR ELECTRICALLY NEUTRAL CONDUCTORS. ALL PIPING, FITTINGS, AND RISERS SHALL BE PROTECTED AGAINST CORROSION IN ACCORDANCE WITH NFPA-54. PIPING SHALL NOT BE EMBEDDED IN CONCRETE SLABS CONTAINING QUICKSET ADDITIVES OR CINDER AGGREGATE.
10. EACH OUTLET, INCLUDING A VALVE, SHALL BE CLOSED GAS TIGHT WITH A THREADED PLUG OF CAP IMMEDIATELY AFTER INSTALLATION AND SHALL BE LEFT CLOSED UNTIL THE GAS UTILIZATION EQUIPMENT IS CONNECTED THERETO. WHEN EQUIPMENT IS DISCONNECTED FROM AN OUTLET AND THE OUTLET IS NOT TO BE USED AGAIN IMMEDIATELY, IT SHALL BE CLOSED GAS TIGHT.
11. SHUTOFF VALVES: AN EXTERIOR SHUTOFF VALVE SHALL BE PROVIDED ON THE SUPPLY SIDE OF THE GAS METER PER CODE. THE SHUTOFF VALVE SHALL BE PLAINLY MARKED AS SUCH AND THEIR LOCATIONS POSTED AS REQUIRED BY FBC-FUEL GAS-6TH EDITION AND THE AHJ.

CALIBER CAPITAL CARWASH
LAKE WALES, FLORIDA

GAS PIPING PLAN AND RISER DIAGRAM

CONN + ARCHITECTS
1960-C Buford Boulevard | Tallahassee, Florida 32308 | 850-878-8784
www.CONNarchitects.com | Lic. No. AA C001662

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REVISED:
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SHEET NUMBER: GAS1.0

100% CONSTRUCTION DOCUMENTS

STATE OF FLORIDA
ISRAEL A. CONN
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