

GENERAL PLUMBING NOTES

- 1. Materials, equipment, and systems shall meet all pertinent requirements of the Underwriters Laboratory (UL), the American Society for Testing Materials (ASTM), Florida Building Code Sixth Edition (2017) - Plumbing, Florida Building Code Sixth Edition (2017) - Fuel Gas, Florida Building Code Sixth Edition (2017) - Energy Conservation, American Water Works Association (AWWA), American Gas Association (AGA), National Fire Protection Association (NFPA), and other nationally recognized agencies as well as applicable local codes.
2. Bidders shall be licensed contractors in accordance with local and state law.
3. Bidders shall thoroughly acquaint themselves with the conditions under which the work is to be performed. They shall examine all services, equipment, surfaces, etc., which this work is in any way dependent upon, and bring any discrepancies determined or omissions found in the drawings to the owner's attention before submitting bid.
4. All installed systems, devices and related items shall be tested in place on site. Replace any and all contractor supplied defective fixtures, devices or systems at contractor's own expense before completion of the project.
5. Contractor shall guarantee all work for which materials are furnished, fabricated or field erected, all factory assembled equipment for which no specific manufacturer's guarantee is furnished, and all work in connection with installing manufacturer's guaranteed equipment. This contractor's guarantee shall exist for a period of one (1) year from the date of final owner acceptance of the work and shall apply to defects in material and to defective workmanship of any kind.
6. The systems shown on the drawings shall be provided to serve all fixtures, equipment, and areas within the Contract Item Lines as set forth by the Architect's selection for the project. Systems shall include all equipment, appurtenances, safety devices, and controls necessary for the intended service.
7. All permits and fees required for the work shall be secured and paid for by the plumbing contractor and included in bid price.
8. Anything drawn or specified on these plans shall not be construed to conflict with any local, municipal or state law, regulation or ordinance which governs the installation of any plumbing or related work. Where any portion of the systems are not installed as in accordance with applicable laws, ordinances, regulations and codes, this contractor shall make all changes required by the enforcing agencies in a manner approved by the owner and without additional cost to the owner.
9. Where job conditions require changes from the contract documents that do not change the scope of installation or nature of work required, the contractor shall make such changes without additional cost to the owner. No other changes may be made without written permission of the owner.
10. All equipment and fixtures shall be new and unopened and installed in strict conformance to manufacturer's recommendations. Provide fixtures complete with all trim, stops, hangers, carriers, supports, etc. including provision for the handicapped, if required. Where fixtures are accessible to the handicapped, fixtures must comply with all federal ADA regulations.
11. Arrange for chases, slots, and openings in other building components to allow for plumbing installations. Coordinate the cutting and patching of building components to accommodate installation of plumbing equipment and materials.
12. Do not endanger or damage installed work through procedures and processes of cutting and patching. Provide repairs required to restore other work, because of damage caused as a result of plumbing installations.
13. Coordinate the installation of required supporting devices and sleeves to be set in poured in place concrete and other structural components, as they are constructed.
14. Sequence, coordinate, and integrate installations of plumbing materials and equipment for efficient flow of the work. Give particular attention to large equipment requiring positioning prior to closing in the building.
15. Where mounting heights are not detailed or dimensioned, install plumbing services and overhead equipment to provide the maximum headroom possible.
16. Install plumbing equipment to facilitate maintenance and repair or replacement of equipment components. As much as practical, connect equipment for ease of disconnecting, with minimum interference with other installations.
17. Coordinate the installation of plumbing materials and equipment above ceilings with suspension system, light fixtures, ductwork, conduits, and other installations. Coordinate plumbing equipment and materials installation with other building components.
18. All pipes shall be of the size given on the drawings. All piping shall be run true to line. Pipes may be moved, if necessary for installation, provided that the nature of the system is not changed. All pipes shall be concealed: located above ceiling, below floor or in walls, except where connection is made to fixture.
19. Coordinate connection of plumbing systems with exterior underground and overhead utilities and services. Comply with requirements of governing regulations, franchised service companies, and controlling agencies. Provide required connection for each service.
20. Plumbing service rough in shall be based on information, drawings, equipment cuts, etc. prepared by the equipment supplier. Final plumbing connections shall be made from rough-in to equipment after equipment is set in place.
21. Actual locations and mounting methods for fixtures and penetrations are subject to Architect's approval. All piping is shown schematically for clarity - coordinate with structure, ducts, lights, utilities, etc. Verify all dimensions by field measurements.
22. All pipes, pumps, control devices, fire protection, and miscellaneous apparatus shall be clearly marked for easy identification and safety. Use black plastic or bakelite name plate engraved with white letters 1/4" high. Punched tape is not acceptable.
23. The hot and cold water supply line branches for all lavatories, sinks, dishwashers, and hose bibbs shall have foam or foam water hammer arresters installed on the high point at the end of each branch line.
24. All above-ground water supply piping shall be Charlotte Pipe Duroguard Gold CTS CPVC water piping, except use Type L rigid copper with 10 feet of water heater and thermostat. All below-grade water supply piping shall be Type K soft copper with at least 5' between joints. All joints shall be soldered with "lead-free" solder (e.g., 95-5).
25. Flush and sterilize water system after connections are made in accordance with local regulations.
26. All sanitary waste piping below slab shall be cast-iron or solid-walled PVC. Other DWV piping may be solid-wall PVC or cast-iron or galvanized steel, except that PVC may NOT be used in doming, walls and may NOT be used in return plenum ceilings.
27. All floor penetrations and all exterior penetrations shall be completely waterproofed, flashed, and sealed. All pipe penetrations of fire rated assemblies shall be sleeved and sealed to maintain the rating of the assembly. Sleeves shall be used for all masonry penetrations. Proper sealing of penetrations as described here is the sole responsibility of the plumbing contractor.
28. All domestic water piping, vent piping and gas piping shall run above ceiling, UNLESS:
A. All sanitary and storm piping shall be run under the floor, UNLESS:
1. Existing piping shown on drawings is based on original drawings, and location, mounting heights and points of connection must be verified in field. All piping is new, UNLESS:
a. In general, do not abandon old piping - remove and dispose of properly, unless otherwise noted or under slab, or unless noted otherwise.
2. All water piping inside the building thermal envelope shall be installed with jacketed fiberglass pipe insulation with sealed seams (Owens Corning S55-II or equal) as follows: Cold water, 1/2" thick insulation, hot water supply and recirculation piping 1.25" dia and smaller, 1" thick insulation, hot water supply and recirculation piping 1.5" dia and larger, 1.5" thick insulation.
3. No hot and cold water supply piping shall be run in outside walls, crawl space, attic, or other unheated spaces.
29. Provide and install LeGuard by Tracton, Inc. ADA compliant, vinyl coated with standard white finish, foam insulation on all exposed plumbing waste and supply connectors underneath all lavatories, not just the one labeled with an "H". If there are any instant water heaters, transformers for hand-free devices, or any other sharp or abrasive objects under lavatory, provide and install full lavatory shield (LeGuard by Tracton, Inc. or equal), maintaining ADA required clearances under all lavatories.
30. All exterior hose bibbs shall be freeze proof hose bibbs, UNLESS:
1. All horizontal branches and vents 1/2" in diameter and over shall be sloped at 1/8" per foot minimum, UNLESS:
a. Note: All horizontal branches and vents under 2" in diameter shall be sloped at 1/16" per foot minimum, unless otherwise noted (UNLESS).
2. All exterior piping shall be insulated with 2" thick insulation, UNLESS:
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b. Note: All exterior piping shall be insulated with 2" thick insulation, UNLESS:
3. Plumbing contractor shall furnish record set of drawings with any deviations noted in red ink within 90 days of system acceptance.
31. Fabricate, install, inspect, test and purge natural gas systems in accordance with latest edition of NFPA 54, as local gas company. Gas pipe shall be schedule 40 black steel, UNLESS:
a. Note: All exterior piping shall be insulated with 2" thick insulation, UNLESS:
32. All submittals MUST be sent in pdf format, highlighted or redlined to indicate proposed model number, including suffix and options, and shall be emailed to the Architect.
33. Sprinkler heads shall be centered in ceiling tiles.
34. Compactor shall be provided with an automatic siphon line-water spray, ordinary temperature sprinkler, minimum 1/2" orifice, installed in the hopper of the compactor, per local code requirements.

SPRINKLER NOTES

- 1. All fire protection systems shall be in accordance with NFPA regulations, and all local codes, including the requirements of the Authority Having Jurisdiction (AHJ).
2. The design and installation of the sprinkler system shall be the responsibility of the sprinkler contractor. The sprinkler contractor shall be responsible for the design and fabrication of sprinkler system. Sprinkler contractor shall prepare a submittal showing pipe sizing, heads, hydraulic calculations, etc. for approval by the Architect. No approval shall be given until the submittal is approved by the Architect.
3. Sprinkler piping shall be coordinated with ductwork, lights, structure and other piping. The sprinkler contractor shall retain responsibility for this coordination with other disciplines.
4. Sprinkler heads shall be centered in ceiling tiles.

SUPPLY FIXTURE UNIT CALCULATIONS

Table with columns: Fixture ID, Description, QUAN, SFDU per fixture, SFDU total. Rows include Proofer, Bakery Oven, Coffee/Tea Brewer, Dishwashing machine, public, etc. Includes kitchen denoting factor and totals: 90.3, 82.0, 112.8.

DRAINAGE FIXTURE UNIT CALCULATIONS

Summary table for drainage fixture units including items like CS-1, EWC-1, FD-1, FD-2, etc. Includes Grease interceptors table and total DFUs for store: 247.5.

GAS LOAD CALCULATIONS

Summary table for gas load calculations listing items such as Bakery Oven, Charbroiler, Fryer, Convection Oven, Pizza Oven, Range, Pasta Cooker, etc. Total MBH is 2334.

GREASE INTERCEPTOR CALCULATION

Calculation table for grease interceptor showing Number of Seats (65), Waste Per Seat (Gall), Loading Factor (1), Operating Hours (16), Volume Required (Gall) = 2167, Existing Units = (2) 1250 Gallon interceptors, Volume Required = (# Seats) x (Gal Waste per Seat) x (Op Hours/12) x (Loading Factor).

ALTERNATE PRICING SUBMISSION NOTES

For domestic water piping above grade, contractor's base bid shall provide for use of CPVC (except as otherwise indicated in General Plumbing Note #24 this sheet). Contractor shall also include alternate line item price for use of PEX in lieu of CPVC. Contractor shall review with Lucky's construction manager and AHJ, prior to purchase and order, and provide PEX only if directed by Lucky's construction manager and only if allowed by the AHJ.

PLUMBING SYMBOLS

Table of plumbing symbols and abbreviations including AAV (Air admittance valve), AFF (Above finished floor), RFP (Backflow preventer), BFP (Below finish floor), BWV (Backwater valve), etc.

WATER HEATER SCHEDULE

Table listing water heater models and specifications: ID, MFR, MODEL, DESCRIPTION, MBH, KW, VOLTS/PH, GPH, Gas/Bus, DIAM, HT, HW, CW, NOTES. Includes BWH-300 and ET-25V.

PUMP SCHEDULE

Table listing pump specifications: ID, MFR, MODEL, DESCRIPTION, QTY, MOTORS, HP/WA, VOLTS/PH, RPM, GPM, HEAD, LG, Wt, HY, NOTES. Includes RP-1300.

- NOTES:
1) Stainless steel construction.
2) Pump shall be provided with Aquastat controls to maintain minimum 130 deg F water temperature during occupied hours.
3) Provide and install check valve after pump before temperature gauge.

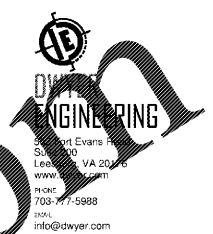
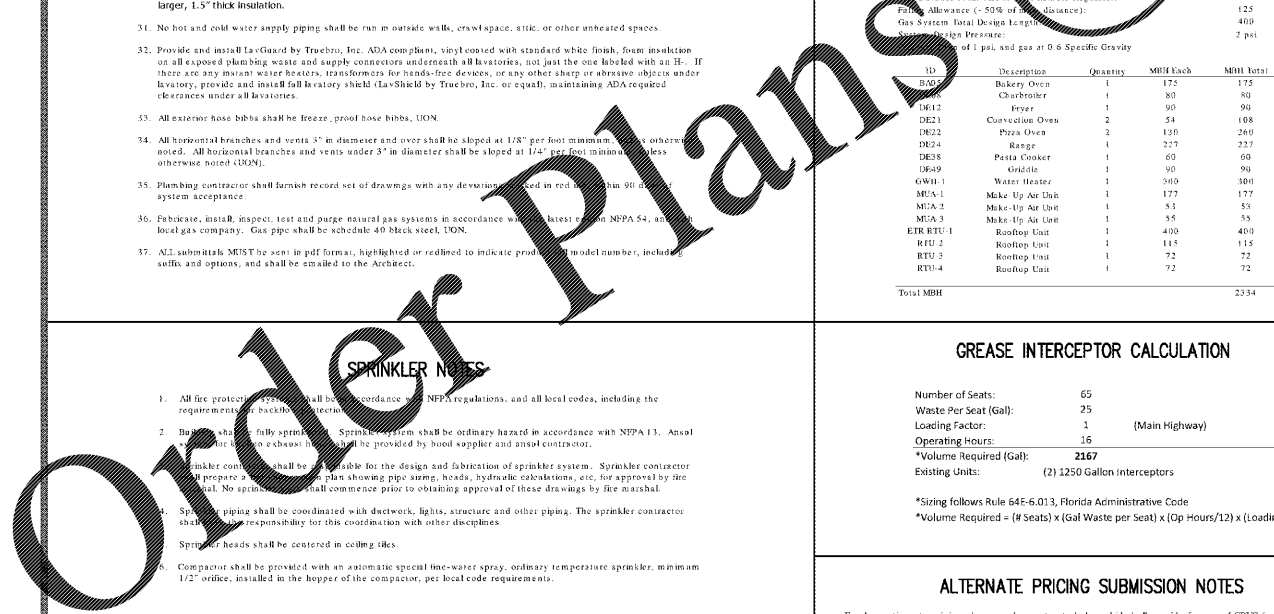
GAS REGULATOR SCHEDULE

Table listing gas regulator specifications: Regulator ID, Equipment Served, Gas Load MBH, Regulator Manufacturer, Regulator Model Number, Regulator Size, Inlet Pressure, Outlet Pressure, Natural Gas L/P, Longest Run. Includes GHA, GR-B, GR-C, etc.

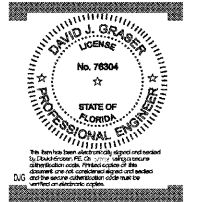
- NOTES:
1) Regulators shall be installed as close as possible to equipment and drops thru roof.
2) All regulator sizes shall correspond with the gas piping sizes as indicated on the drawings and gas regulator schedule.
3) Regulators exterior to the building shall be provided with manufacturer's weatherproof vent cap and Inbue Technology.
4) Coordinate required spring selection with manufacturer's authorized representative prior to purchase and order.
5) Regulators interior to the building shall be provided with manufacturer's associated vent limiting device.
6) Coordinate all equipment line regulator installation elevations with Lucky's construction manager, prior to construction, and provide as directed.

HEAT TRACE SCHEDULE

Condensate piping in freezer, cat room and meat cooler shall be heat traced with Chromalox SRF 120 volt, 5 watts per foot, self-regulating heat trace cable. Cable shall be run linearly on one side of pipe. Cable shall be wrapped at minimum 4-foot intervals with fiberglass tape. Cable and fiberglass tape shall be covered with 1-1/2" Owens Corning S55-II fiberglass insulation with sealed seams. Exterior of foot manholes shall have warning labels attached every 10 feet per NEC requirements. Provide thermocoups, and locate it so that it measures exterior pipe temperature at coldest point on pipe. Electrical contractor shall perform all necessary cable connections to electrical supply. Verify all required run lengths in field, prior to construction, and adjust if needed. For bid purposes, assume 100 linear feet of cable shall be required.



LUCKY'S MARKET
6420 NAPLES BLVD.
NAPLES, FLA. 34108



REVISIONS
PERMIT ISSUE
APRIL 27, 2019
BID ISSUE 04/27/19
STORE NUMBER 57
WD PROJECT NUMBER LYUFG011
P101

PLUMBING NOTES, SYMBOLS AND SCHED.