COLD WATER PIPING SIZING CALCULATION

WATER INFO: – CONTACT: –	LOSSES	P.S.I. LEFT	PIPE SIZE	G.P.M.	F.T. F.U.	F.W. F.U.
P.S.I. AVAILABLE AT (E) WATER MAIN		52–60	1/2"	0	0	–
P.S.I. LOSS THRU (N) 2" WATER METER @ 95 GPM	–4.0	48.0	3/4"	5	7	–
P.S.I. LOSS THRU (N) 21/2" (RP) BACKFLOW PREVENTER	–12.0	36.0	1"	12	16	–
P.S.I. LOSS THRU (N) PIPE RISE (25 FEET x 0.43)	–10.75	25.25	11/4"	23	36	6
P.S.I. AVAILABLE AT OUTLET OF (N) BOOSTER PUMP (BP–1)	+54.75	80.0	11/2"	36	69	21
P.S.I. LOSS THRU (N) "P.R.V.", SET @ 80 PSI	–6.0	74.0	2"	76	254	132
P.S.I. LOSS THRU (N) PIPE RISE (10 FEET x 0.43)	–4.3	69.7	21/2"	115	455	329
P.S.I. REQUIRED FOR (N) FIXTURES	–25.0	44.7	3"	–	–	–
			31/2"	–	–	–
			4"	–	–	–
			6"	–	–	–
TOTAL PRESSURE LOSS	–62.05					
P.S.I AVAILABLE FOR FRICTION LOSS		44.7				
AVAILABLE P.S.I. 44.7 x 100 = P.S.I./ 100 FEET LENGTH OF RUN = 867 FEET	SYSTEM SIZED ON 5.0 PSI					
578 FEET + 50% (FITTINGS) = 867 FEET	LOSS PER 100 FT					

WATER CALCULATION NOTES:
210 TOTAL FIXTURE UNITS (FLUSH VALVE) = 95 GPM TOTAL
COLD WATER PIPING SIZED FOR 8 F.P.S. VELOCITY (MAXIMUM)

HOT WATER PIPING SIZING CALCULATION

WATER INFO: – CONTACT: –	LOSSES	P.S.I. LEFT	PIPE SIZE	G.P.M.	F.T. F.U.	F.W. F.U.
P.S.I. AVAILABLE AT (E) WATER MAIN		52–60	1/2"	0	0	–
P.S.I. LOSS THRU (N) 2" WATER METER @ 95 GPM	–4.0	48.0	3/4"	4	4	–
P.S.I. LOSS THRU (N) 21/2" (RP) BACKFLOW PREVENTER	–12.0	36.0	1"	9	12	–
P.S.I. LOSS THRU (N) PIPE RISE (25 FEET x 0.43)	–10.75	25.25	11/4"	16	23	–
P.S.I. AVAILABLE AT OUTLET OF (N) BOOSTER PUMP (BP–1)	+54.75	80.0	11/2"	26	44	–
P.S.I. LOSS THRU (N) "P.R.V.", SET @ 80 PSI	–6.0	74.0	2"	48	119	–
P.S.I. LOSS THRU (N) PIPE RISE (10 FEET x 0.43)	–4.3	69.7	21/2"	74	245	–
P.S.I. REQUIRED FOR (N) SOFT/FILTERED WATER EQUIPMENT	–10.0	59.7	3"	–	–	–
P.S.I. REQUIRED FOR (N) FIXTURES	–15.0	44.7	31/2"	–	–	–
			4"	–	–	–
			6"	–	–	–
TOTAL PRESSURE LOSS	–62.05					
P.S.I AVAILABLE FOR FRICTION LOSS		44.7				
AVAILABLE P.S.I. 44.7 x 100 = P.S.I./ 100 FEET LENGTH OF RUN = 1,587 FEET	SYSTEM SIZED ON 2.8 PSI					
1,058 FEET + 50% (FITTINGS) = 1,587 FEET	LOSS PER 100 FT					

WATER CALCULATION NOTES:
210 TOTAL FIXTURE UNITS (FLUSH VALVE) = 95 GPM TOTAL
HOT WATER PIPING SIZED FOR 5 F.P.S. VELOCITY (MAXIMUM)

PLAN NOTES

1. 3/4" HW @ +102" A.F.F. TO CARBONATOR/SODA SYSTEM – ITEM #19 – INSTALL WITH WATTS #SD–3, 3/4" 316 STAINLESS STEEL DUAL CHECK VALVE (VALVE COMPLIES WITH ASSE 1022 STANDARD) WITH ATMOSPHERIC VENT – NO COPPER PIPE OR COPPER TUBING SHALL BE INSTALLED DOWNSTREAM OF STAINLESS STEEL DUAL CHECK VALVE.
2. 3/4" CW & 3/4" 140°F HW @ +36" A.F.F. TO MOP SINK (SS–1) WITH FAUCET – ITEM #22.
3. 3/4" CW & 3/4" 140°F HW @ +36" A.F.F. TO HAT WASH SINK (SS–1) WITH FAUCET – ITEM #26.
4. INSTALL 1/4 TURN SHUT–OFF VALVES AND NIBCO MODEL #S–480–Y–LF CHECK VALVES ON HW & CW SUPPLY LINES ABOVE CEILING TO SHUT–OFF AND ISOLATE WALL MOUNTED FILL FAUCETS – SEE GEN. NOTE 55 ON SHEET P1.2
5. 3/4" CW & 3/4" 140°F HW @ +84" A.F.F. TO DETERGENT PUMPS – INSTALL WITH WATTS #LF009QT LEAD FREE (RP) BACKFLOW PREVENTER ON EACH SUPPLY LINE (HW & CW) – ROUTE DRAINS FROM BOTH (RP) BACKFLOW PREVENTERS WITH APPROVED FIXED AIR GAP FITTING TO MOP SINK (SS–1) WITH AN APPROVED LEGAL AIR GAP – SECURE AND ANCHOR DRAIN FROM (RP) BACKFLOW PREVENTER TO WALL TO RESTRICT MOVEMENT.
6. 3/4" CW & 3/4" 140°F HW TO FAUCET FOR WORK TABLE – ITEM #35A – INSTALL WITH NIBCO #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO FAUCET.
7. 3/4" CW @ +51" A.F.F. TO BRAISING PAN FILL FAUCET – ITEM #46.
8. 3/4" CW @ +51" A.F.F. TO POT FILLER – ITEM #59.
9. 3/4" CW & 3/4" 140°F HW @ +14" A.F.F. TO FAUCET FOR PREP TABLE – ITEM #62A – INSTALL WITH NIBCO #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO FAUCET.
10. 3/4" CW & 3/4" 140°F HW @ +14" A.F.F. TO PRE–RINSE FAUCET – ITEM #76 – INSTALL WITH NIBCO #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO FAUCET.
11. 1" 140°F HW @ +72" A.F.F. TO DISHWASHER (LOW–TEMPERATURE) – ITEM #76.
12. 3/4" CW & 3/4" 140°F HW @ +14" A.F.F. TO FAUCET FOR POT SINK – ITEM #80A – INSTALL WITH NIBCO #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO FAUCET.
13. 3/4" CW & 3/4" 140°F HW @ +18" A.F.F. TO LEONARD #370–LF LEAD FREE THERMOSTATIC MIXING VALVE, INSTALL WITH NIBCO MODEL #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO THE MIXING VALVE – TEE 3/4" CW & 3/4" 110°F HW @ +18" A.F.F. TO HAND SINK – ITEM #82.
14. 1" FW @ +114" A.F.F. TO TO ICE MACHINE – ITEM #85.
15. 3/4" CW @ +18" A.F.F. TO SOILED DISHTABLE SCRAP TROUGH – ITEM #71.
16. 3/4" CW @ +54" A.F.F. TO POT FILLER – ITEM #106.
17. 3/4" 90°F HW @ +34" A.F.F. TO DIPPERWELL – ITEM #107.
18. INSTALL LEONARD #370–LF LEAD FREE THERMOSTATIC MIXING VALVE BELOW COUNTER FOR 90°F HW TO DIPPERWELL – INSTALL WITH NIBCO #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO MIXING VALVE – INSTALL MIXING VALVE IN AN ACCESSIBLE LOCATION BELOW THE COUNTER.
19. 3/4" CW @ +14" A.F.F. TO CHINESE WOK RANGE – ITEM #117.
20. 3/4" CW @ +14" A.F.F. TO FAUCET FOR CHINESE WOK RANGE – ITEM #117A.
21. 3/4" CW & 3/4" 140°F HW TO LEONARD #370–LF LEAD FREE THERMOSTATIC MIXING VALVE, INSTALL WITH NIBCO MODEL #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO THE MIXING VALVE – TEE 3/4" CW & 3/4" 110°F HW TO FAUCET (FOR CHEF'S COUNTER) – ITEM #136G.
22. 3/4" 140°F HW TO 2–WELL HOT FOOD UNIT – ITEM #142.
23. 3/4" 90°F HW TO DIPPERWELL – ITEM #149.
24. 3/4" CW & 3/4" 140°F HW @ +14" A.F.F. TO LEONARD #370–LF LEAD FREE THERMOSTATIC MIXING VALVE, INSTALL WITH NIBCO MODEL #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO THE MIXING VALVE – TEE 3/4" CW & 3/4" 110°F HW @ +14" A.F.F. TO UTILITY SINK – ITEM #156.
25. 3/4" FW @ +48" A.F.F. TO ICED TEA BREWER – ITEM #157 – INSTALL WILKINS #700XL LEAD FREE DUAL CHECK VALVE.
26. 3/4" FW @ +48" A.F.F. TO COFFEE BREWER – ITEM #158 – INSTALL WILKINS #700XL LEAD FREE DUAL CHECK VALVE.
27. 3/4" CW & 3/4" 140°F HW @ +14" A.F.F. TO LEONARD #370–LF LEAD FREE THERMOSTATIC MIXING VALVE, INSTALL WITH NIBCO MODEL #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO THE MIXING VALVE – TEE 3/4" CW & 3/4" 110°F HW @ +14" A.F.F. TO HAND SINK – ITEM #166.
28. 3/4" 90°F HW @ +20" A.F.F. TO DIPPERWELL – ITEM #167.
29. 3/4" CW & 3/4" 140°F HW TO LEONARD #370–LF LEAD FREE THERMOSTATIC MIXING VALVE, INSTALL WITH NIBCO MODEL #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO THE MIXING VALVE – TEE 3/4" CW & 3/4" 110°F HW TO BLENDER STATION FAUCET – ITEM #182C.
30. 3/4" CW & 3/4" 140°F HW TO FOUR COMPARTMENT BAR SINK FAUCET – ITEM #182E – INSTALL WITH NIBCO #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO FAUCET.
31. 3/4" CW & 3/4" 140°F HW TO LEONARD #370–LF LEAD FREE THERMOSTATIC MIXING VALVE, INSTALL WITH NIBCO MODEL #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER SUPPLY LINES TO THE MIXING VALVE – TEE 3/4" CW & 3/4" 110°F HW TO HAND SINK FAUCET – ITEM #182F.
32. 1" 140°F HW @ +72" A.F.F. TO GLASSWASHER – ITEM #186.
33. 3/4" FW TO GLASS RINSER – ITEM #196 – INSTALL WITH NIBCO S–480–Y–LF CHECK VALVE ON FILTERED COLD WATER SUPPLY LINE TO GLASS RINSER.
34. INSTALL WATTS 223 SERIES PRESSURE REGULATOR BELOW ISLAND BAR – SET AT 15 PSI (MAX).
35. INSTALL NEW GAS–FIRED WATER HEATER (WH–1) ON HOUSE–KEEPING PAD – ROUTE DRAIN FROM SMITTY PAN AND T.P.R.V. TO NEARBY FLOOR SINK (SEE SHEET P2.0 FOR LOCATION) WITH A LEGAL AIR GAP.
36. 140°F HOT WATER RE–CIRCULATION PUMP (CP–1) – INTEGRAL WITH 7–DAY PROGRAMMABLE TIME CLOCK – SET TIME CLOCK TO TURN PUMP ON WHEN RESTAURANT OPENS & TURN OFF WHEN CLOSED.
37. LOCATION OF 7–DAY PROGRAMMABLE TIME CLOCK FOR 140°F HOT WATER RE–CIRC PUMP (RP–1) – LOCATION OF 7–DAY PROGRAMMABLE TIME CLOCK FOR 120°F HOT WATER RE–CIRC PUMP (RP–2) – SET TIME CLOCK TO TURN PUMP ON WHEN RESTAURANT OPENS AND TO TURN PUMP OFF WHEN RESTAURANT IS CLOSED – TIME CLOCK PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR – 120V WIRING BY THE ELECTRICAL CONTRACTOR.
38. SEE SOFT/FILTERED WATER SCHEMATIC (2/P1.1) ON P1.1 FOR PLUMBING @ FILTERED WATER EQUIPMENT – SOFT/FILTERED WATER EQUIPMENT SHALL DRAIN TO FLOOR SINK WITH LEGAL AIR GAP.
39. SEE CIVIL DRAWINGS FOR CONTINUATION.
40. INSTALL ISOLATION 1/4 TURN BALL VALVES ABOVE THE CEILING TO ISOLATE PLUMBING ZONES (TYPICAL) – INSTALL RED PLASTIC LABEL WITH WHITE LETTERS ON CEILING INDICATING "ISOLATION SHUTOFF VALVES ABOVE CEILING" IN KITCHEN AND BACK OF HOUSE AREAS – SEE GENERAL NOTE #80 ON SHEET P1.2.
41. 3/4" CW & 3/4" 140°F HW TO LEONARD #370–LF LEAD FREE THERMOSTATIC MIXING VALVE, INSTALL WITH 1/4 TURN SHUT–OFF VALVES & NIBCO #S–480–Y–LF CHECK VALVES ON HOT & COLD WATER LINES TO MIXING VALVE – TEE OFF 3/4" 110°F HW TO LAVATORY FAUCETS (SEE PLAN NOTE #44 THIS SHEET).
42. 1 1/2" CW TO WATER CLOSET – INSTALL WATER HAMMER ARRESTORS TYPICAL AT ALL WATER CLOSETS.
43. 11/4" CW TO URINAL – INSTALL WATER HAMMERS ARRESTORS TYPICAL AT ALL URINALS.
44. 3/4" 110°F HW @ +24" A.F.F. TO LAVATORY FAUCET (L–1) – CONNECT TO BOTH SUPPLIES OF FAUCET.
45. SUPPLY PIPING BELOW THE FLOOR – ALL PIPING BELOW FLOOR SHALL BE SOFT DRAWN COPPER PIPE (TYPE 'L') WITH NO JOINTS OR FITTINGS AND SHALL BE INSTALLED IN A 6–MIL POLY SLEEVE – HOT WATER PIPING BELOW FLOOR SHALL BE FULLY INSULATED WITH 0 MIL POLY SLEEVE INSTALLED OVER INSULATION, 6 MIL POLY SLEEVE SHALL TERMINATE 6" A.F.F.
46. ROUTE SUPPLY PIPING THRU BAR DIE WALL. COORDINATE ROUTING OF SUPPLY PIPING WITH MILLWORK CONTRACTOR, ELECTRICAL CONTRACTOR, AND KITCHEN EQUIPMENT CONSULTANT PRIOR TO INSTALLATION.
47. 3/4" CW PIPING UP THRU ROOF – SEE SHEET P5.0 FOR CONTINUATION.
48. 3/4" CW & (2)2" 120°F HW DN TO +24" A.F.F. – TEE 3/4" CW & 3/4" 140°F HW TO LEONARD #370–LF LEAD FREE THERMOSTATIC MIXING VALVE, INSTALL WITH 1/4 TURN SHUT–OFF VALVES & NIBCO #S–480–Y–LF CHECK VALVE ON HOT & COLD WATER LINES TO MIXING VALVE – TEE OFF 3/4" 110°F HW LINE TO BOTH SUPPLY LINES TO FAUCET – THE PLUMBING CONTRACTOR SHALL ROUTE (2)2" 120°F HW LINES DN TO +24" A.F.F. TO KEEP RE–CIRCULATION SYSTEM AS CLOSE AS POSSIBLE TO THE LAVATORY FAUCETS.
49. INSTALL TRAP PRIMER VALVE (TP–2) EXPOSED ON WALL @ +48" A.F.F. (MINIMUM).
50. INSTALL WATTS #LF288A 3/4" LEAD FREE ANTI–SIPHON VACUUM BREAKER ON WALL @ +52" A.F.F. FOR SOILED DISHTABLE SCRAP TROUGH – ITEM #71 – THE PLUMBING CONTRACTOR (P.C.) SHALL VERIFY THE EXACT LOCATION OF VACUUM BREAKER ON–SITE WITH THE KITCHEN EQUIPMENT CONSULTANT (K.E.C.).
51. INSTALL 1/4 TURN SHUT–OFF VALVE IN EASILY ACCESSIBLE LOCATION NEAR FRONT OF COUNTER.
52. 3/4" CW & (2)3/4" 140°F HW DN TO +24" A.F.F. – TEE 3/4" CW & 3/4" 140°F HW TO THERMOSTATIC MIXING VALVE, SEE PLAN NOTE #41 THIS SHEET FOR MORE INFORMATION. – THE PLUMBING CONTRACTOR SHALL ROUTE (2)3/4" 140°F HW LINES DN TO +24" A.F.F. TO KEEP RE–CIRCULATION SYSTEM AS CLOSE AS POSSIBLE TO THE LAVATORY FAUCETS.
53. SUPPLY AND INSTALL WATTS #LF909 21/2" LEAD FREE (RP) BACKFLOW PREVENTER @ +24" A.F.F. IN HEXED BACKFLOW ENCLOSURE – INSTALL SENTRY BACKFLOW CABLE GUARD (SCG) TO PREVENT BACKFLOW PREVENTER THEFT – ROUTE DRAIN FROM (RP) BACKFLOW PREVENTER TO SPILL TO FINISHED GRADE WITH A CODE REQUIRED LEGAL AIR GAP.
54. SUPPLY AND INSTALL WATTS #HG–N3 HEXED AND INSULATED BACKFLOW ENCLOSURE (ELECTRICAL REQUIREMENTS: 1,000W, 120V, 1–PH) – SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
55. 6" HIGH CONCRETE HOUSE KEEPING PAD – SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
56. SEE SHEET 1/P1.2 FOR WATER PRESSURE BOOSTER PUMP (BP–1) SPECIFICATION/SCHEMATIC – WATER PRESSURE BOOSTER PUMP ASSEMBLY TO BE SUSPENDED FROM STRUCTURE (SEE STRUCTURAL DRAWINGS).
57. INSTALL WILKINS MODEL #500AFLC 21/2" WATER PRESSURE REDUCING VALVE WITH 21/2" FLANGED CONNECTIONS AFTER THE WATER PRESSURE BOOSTER PUMP (SEE PLAN NOTE #52 THIS SHEET). TRIM SET "P.R.V." @ 80 PSI (MAX). PRESSURE REDUCING VALVE HAS A 75 PSI TO 125 PSI SPRING RANGE.
58. INSTALL 1/4 TURN BY–PASS SHUT–OFF VALVE FOR WATER PRESSURE BOOSTER PUMP (BP–1) – VALVE TO NORMALLY REMAIN CLOSED.
59. 1" CW, 3/4" FW, & 3/4" 140°F HWR DN IN WALL – TEE 1" CW & 3/4" 140°F HW @ +34" A.F.F. – EXTEND 1" CW, 3/4" FW, & 3/4" 140°F HW DN TO BELOW FLOOR, INSTALL PIPING PER PLAN NOTE #45 THIS SHEET.
60. 11/4" 140°F HW DN TO BELOW FLOOR, INSTALL PIPING PER PLAN NOTE #45 THIS SHEET.
61. 3/4" CW & 11/4" 140°F HW DN IN WALL – TEE OFF TO FIXTURES AS INDICATED ON THIS PLAN.
62. 3/4" CW DN IN WALL – TEE OFF TO FIXTURES AS INDICATED ON THIS PLAN.
63. 3/4" FW DN TO BELOW FLOOR, INSTALL PIPING PER PLAN NOTE #45 THIS SHEET.
64. 11/4" CW, 3/4" FW, & 11/2" 140°F HW DN TO BELOW FLOOR, INSTALL PIPING PER PLAN NOTE #45 THIS SHEET.
65. 11/4" CW, & 11/2" 140°F HW DN TO BELOW FLOOR, INSTALL PIPING PER PLAN NOTE #45 THIS SHEET.
66. 3/4" CW & (2)2" 140°F HW DN TO +24" A.F.F. – TEE 3/4" CW & 3/4" 140°F HW DN TO BELOW FLOOR, INSTALL ALL PIPING BELOW FLOOR PER PLAN NOTE #45 THIS SHEET – THE PLUMBING CONTRACTOR SHALL ROUTE (2)2" 140°F HW LINES DN TO +24" A.F.F. TO KEEP RE–CIRCULATION SYSTEM AS CLOSE AS POSSIBLE TO THE FAUCET FOR WORK TABLE – ITEM #35A.

WATER PIPING INSTALLATION NOTE

THE PLUMBING CONTRACTOR SHALL INSTALL ALL WATER PIPING FULL SIZE AS INDICATED ON THIS PLAN IN ORDER TO KEEP THE VELOCITY OF THE WATER FLOWING IN THE COPPER LINES TO 5 FEET PER SECOND (MAXIMUM) FOR ALL HOT WATER SUPPLY LINES AND 8 FEET PER SECOND (MAXIMUM) FOR ALL COLD WATER, FILTERED WATER, AND SOFT COLD WATER LINES – THE PLUMBING CONTRACTOR SHALL REDUCE THE SIZE OF THE WATER LINES TO THE CONNECTION SIZE FOR EACH FIXTURE AT EACH FIXTURE – IF THE PLUMBING CONTRACTOR DEVIATES FROM THE SIZES INDICATED ON THIS PLANS AND INSTALLS SMALLER COPPER LINES THE PLUMBING CONTRACTOR SHALL REPLACE ALL UNDERSIZED WATER LINES AT THE PLUMBING CONTRACTORS EXPENSE – NO 1/4", 3/8", OR SMALLER COPPER TUBING SHALL BE INSTALLED ON THIS PROJECT – NO EXCEPTIONS.

GENERAL NOTES

SEE SHEET P1.2 FOR ALL PLAN SPECIFIC GENERAL NOTES

ALL WATER PIPING, VALVES, FITTINGS, HOSE BIBBS & EXPANSION TANK IN THE SERVICE YARD SHALL BE INSTALLED WITH "HEAT TRACE" ELECTRIC HEATING CABLES AND SHALL BE FULLY INSULATED WITH WEATHER PROTECTIVE JACKETING. SEE ELECTRICAL SHEETS FOR MORE INFORMATION.

FIRE SUPPRESSION SYSTEM FOR THE LAZY DOG RESTAURANT AND BAR AT 5100 BELT LINE ROAD, SUITE #500, ADDISON, TEXAS 75254 IS TO BE "DESIGN–BUILT" BY A CERTIFIED FIRE SPRINKLER INSTALLATION CONTRACTOR.

COMMENTS FROM THE FIRE DEPARTMENT:
ADD/RELOCATE FIRE SPRINKLERS AND FIRE ALARM DEVICES AS NECESSARY TO PROVIDE PROPER COVERAGE.

FIRE ALARM SHALL BE AUDIBLE THROUGHOUT WITH VISUAL NOTIFICATION PROVIDED IN PUBLIC AND COMMON AREAS.

SEPARATE PLAN SUBMITTALS ARE REQUIRED FOR INSTALLATION OR MODIFICATION OF FIRE SPRINKLER, FIRE ALARM, OR ACCESS CONTROL SYSTEMS.

SUBMIT PLANS TO THE ADDISON FIRE DEPARTMENT:
4798 AIRPORT PARKWAY
ADDISON, TEXAS 75001
(972)450–7201

WATER PIPING PLAN — SCALE 1/4" = 1'–0" (1)

NORTH

ENGINEERING GROUP, INC.
18652 FLORIDA STREET, SUITE #100
HUNTINGTON BEACH, CALIFORNIA 92648
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CRO PROJECT NUMBER: 235–002

ENGINEER OF RECORD:
STEPHEN D. HEATH 46799 Civil
Stephen D. Heath, License #46799
Expiration Date: 12/31/2014

Revision Schedule

Rev	Date	Description
	01DEC2014	PLAN CHECK COMMENTS
	01DEC2014	LANDLORD COMMENTS
	01DEC2014	BID SET

CLIENT:

LAZY DOG RESTAURANT & BAR

PROJECT NAME: LAZY DOG RESTAURANT & BAR
PROJECT ADDRESS: VILLAGE ON THE PARKWAY
5100 BELT LINE ROAD, SUITE 500
ADDISON, TX 75254
BUILDING DEPT. 1ST SUBMITTAL

PROJECT #: 235–002
ISSUE DATE: 10–22–2014

SHEET TITLE: WATER PIPING PLAN

SHEET NUMBER: P3.0