



Engineering Consultant

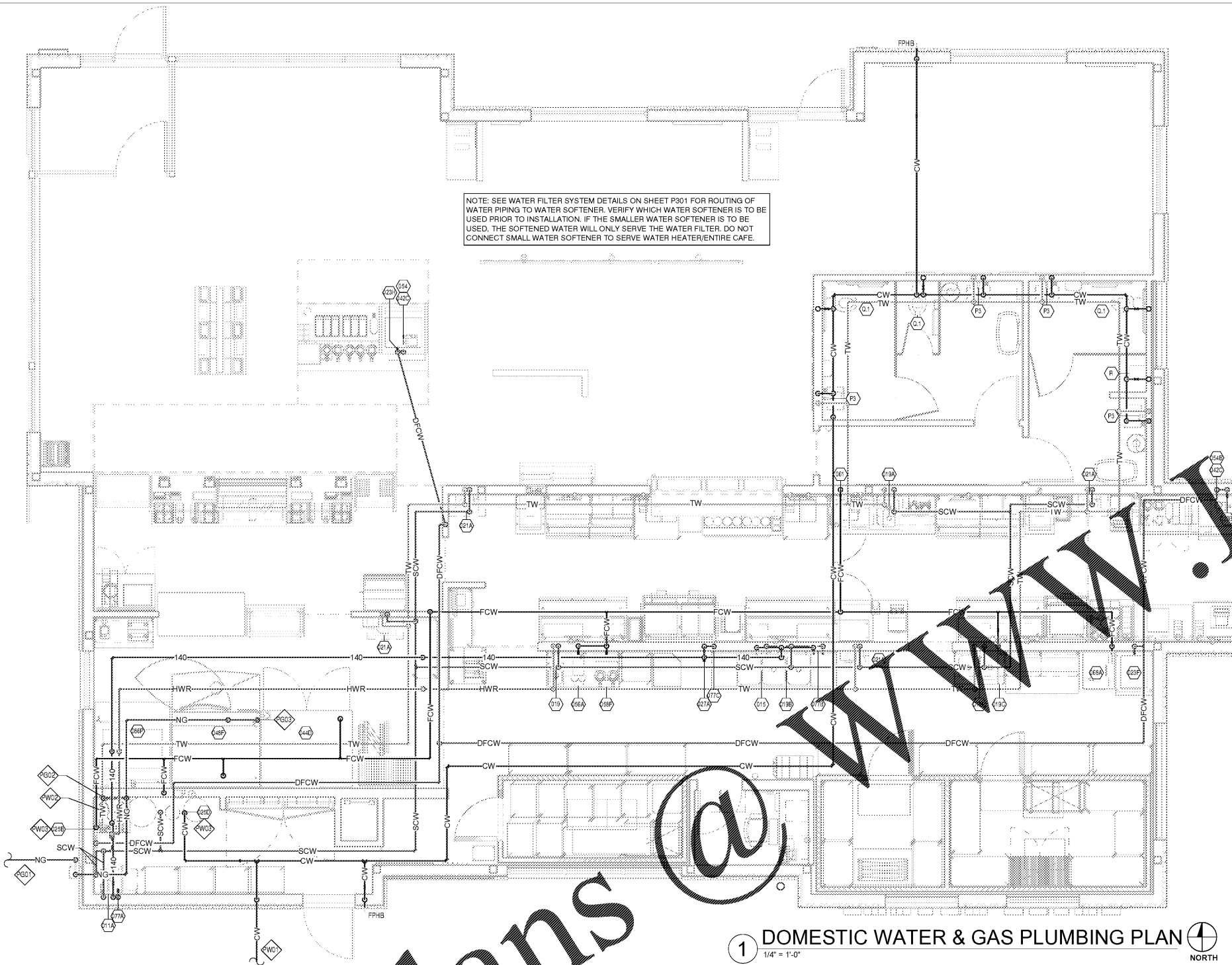
GENERAL NOTES WATER

- PLUMBING CONTRACTOR SHALL VERIFY WITH THE LOCAL HEALTH DEPARTMENT AND/OR WATER COMPANY AS TO THE METER AND VALVING ARRANGEMENTS OF THE DOMESTIC WATER SERVICE WHICH ENTERS THE BUILDING. IF A BACKFLOW PREVENTER AND/OR PRESSURE REDUCING VALVE IS REQUIRED, THE PLUMBER SHALL FURNISH AND INSTALL SAME PER LOCAL AND STATE REQUIREMENTS. CONTRACTOR SHALL VERIFY WATER SERVICE (NEW OR EXISTING) IS CAPABLE OF PROVIDING A MAXIMUM OF 75 G.P.M. AT A MINIMUM OF PSI DOWNSTREAM OF METERING AND VALVING. IN THE EVENT THAT THE SERVICE CANNOT PROVIDE ADEQUATE VOLUME/PRESSURE THE CONTRACTOR SHALL CONTRACT THE OWNERS REPRESENTATIVE PRIOR TO COMMENCING ANY WORK.
- PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL STOP VALVES AT FINISHED WALL SURFACE.
- ALL PIPING SHOWN ON THIS PLAN IS CONCEALED ABOVE THE FLOOR IN CEILING, BELOW THE FLOOR AND IN WALLS. EXPOSE PIPING IN SPACE ONLY AT EQUIPMENT AND FIXTURES.
- SEE ARCHITECTURAL PLANS FOR FINAL EQUIPMENT LOCATIONS. COORDINATE WITH EQUIPMENT SUPPLIER AND THE GENERAL CONTRACTOR FOR FINAL WALL LOCATIONS.
- PROVIDE WATER CONNECTIONS AS REQUIRED, ANGLE STOP AND ESCUTCHEON PLATE FOR ALL FINAL WATER CONNECTIONS.
- FURNISH BURST PROOF BRAIDED FLEXIBLE CONNECTIONS FOR FINAL CONNECTIONS TO SINKS AND OTHER FIXTURES. FURNISH TUBING AND FITTINGS AS REQUIRED, FOR ALL FINAL CONNECTIONS.
- THE OVEN REQUIRES A MINIMUM 45 P.S.I. WATER PRESSURE AT CONNECTION TO PROPERLY FUNCTION. CONTRACTOR SHALL TEST THE WATER PRESSURE DOWNSTREAM OF THE WATER FILTER (WITH THE OVEN PLUGGED) TO INSURE PROPER PRESSURE. IF PRESSURE IS INADEQUATE, INSTALL PRESSURE BOOSTER IN WATER LINE TO PROVIDE ADEQUATE PRESSURE. CONTACT ENGINEER FOR MORE INFORMATION. SEE WATER DIAGRAM ON SHEET P301.
- PROVIDE PRESSURE REGULATORS AS REQUIRED BY LOCAL CODE ON ALL GAS APPLIANCES.
- PROVIDE AIR CHAMBER TYPE WATER HAMMER ARRESTORS OR ACCEPTABLE FACTORY MANUFACTURED SUBSTITUTES AT ALL WATER ROUGH-IN LOCATIONS.
- REFER TO THE GENERAL CONDITIONS ON ARCHITECTURAL SHEETS FOR FIRE STOPPING REQUIREMENTS.
- ALL COMPONENTS OF THE POTABLE WATER SYSTEM SHALL COMPLY WITH THE LEAD FREE REQUIREMENTS AS NOTED IN SECTION 1417 OF THE SAFE DRINKING WATER ACT.

DOMESTIC WATER CALCULATION 2017 FLORIDA PLUMBING CODE

EQUIP. #	DESCRIPTION	QTY	F.U. EACH	TOTAL
011A	MOP SINK BASIN	1	3	3
019B/015	3-COMP SINK (FAUCETS)	2	4	8
019B	2-COMP SINK (FAUCET)	1	4	4
019	DROP-IN SINK (FAUCET)	2	2	4
019A	SINK AT ESPRESSO (FAUCET)	1	2	2
019C	POT FILLER FAUCET	1	2	2
021A	HAND SINK	4	2	8
023B/023H	ICE MAKER ABOVE SODA/ICE DISP.	2	0.25	0.50
023F	ICE MACHINE	1	0.25	0.25
027A	DISHWASHER	2	2	2
042C/054	CARBONATOR	1	0.25	0.25
042C/054B	CARBONATOR SODA DISP.	1	0.25	0.25
044D	PROOFER	1	0.25	0.25
058	TEA BREWER	1	0.25	0.25
058	COFFEE BREWER	1	0.25	0.25
061	ESPRESSO MACHINE	1	0.25	0.25
068A	SOUP RETHERMALIZER	1	1	1
077A	CHEMICAL DISP. @ MOP SINK	1	1	1
077B	CHEMICAL DISP. @ 3-COMP	1	1	1
077C	CHEMICAL DISP. @ DISHWASHER	1	1	1
086P	DECK OVEN (# OF DECKS)	2	0.25	0.50
Q.1	WATER CLOSET (FLUSH VALVE)	3	10	30
R	URINAL	1	10	10
P3	LAVATORY	4	2	8
FPHB	FREEZEPROOF HOSEBIBB	2	5	10
TOTALS		39		98

98 W.S.F.U = 67.5 GPM = 2" DOMESTIC WATER SERVICE WITH A 1-1/2" METER REQUIRED.



1 DOMESTIC WATER & GAS PLUMBING PLAN
1/4" = 1'-0" NORTH

PG# PLUMBING - NATURAL GAS KEYED NOTES

- PG01 MAKE ARRANGEMENTS WITH LOCAL UTILITY TO PROVIDE A NEW NATURAL GAS SERVICE TO THE PREMISES. COORDINATE WITH UTILITY AND PROVIDE METER AND ANY REQUIRED VALVING. VERIFY THAT SERVICE IS ADEQUATE TO SUPPLY 499 MBH. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH LOCAL CODES. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- PG02 NG CONNECTION TO WATER HEATER (199 MBH). PROVIDE DIRT LEG AND SHUTOFF VALVE AS REQUIRED PER LOCAL CODE. SEE DETAIL ON SHEET P-301.
- PG03 NG CONNECTION TO OVEN (100 MBH). PROVIDE DIRT LEG AND SHUTOFF VALVE AS REQUIRED PER LOCAL CODE.

PW# PLUMBING - DOMESTIC WATER KEYED NOTES

- PW01 MAKE ARRANGEMENTS WITH LOCAL UTILITY TO PROVIDE A NEW 2" DOMESTIC WATER SERVICE TO THE PREMISES. COORDINATE WITH UTILITY AND PROVIDE METER AND BACKFLOW PREVENTER. VERIFY THAT SERVICE IS ADEQUATE TO SUPPLY 45 P3 AFTER METER AND BACKFLOW PREVENTER. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES. CONTRACTOR SHALL FIELD VERIFY REQUIREMENTS PRIOR TO BID. BID SHALL INCLUDE ALL WORK NECESSARY FOR A FULLY OPERATIONAL SYSTEM. SEE CIVIL DRAWINGS FOR CONTINUATION.
- PW02 PROVIDE AND INSTALL TANK TYPE WATER HEATER AS SCHEDULED ON SHEET P103. INSTALL WATER HEATER PER DETAIL ON SHEET P301. MIXING VALVE FOR HOT AND COLD WATER SHALL BE "SYMONS" SERIES 7-500A (OR EQUAL) THERMOSTATIC WATER CONTROLLER WITH VACUUM BREAKER AND THERMOMETERS. WATER HEATER TO BE INSTALLED WITH EXHAUST PIPE PRE-POSITIONED FOR SERVICE ACCESS. VERIFY POSITIONING WITH PANERA BREAD CONSTRUCTION MANAGER.
- PW03 INSTALL COLD WATER FILTRATION SYSTEM PER DETAIL ON SHEET P301. SEE EQUIPMENT PLAN AND SCHEDULE FOR MORE INFORMATION.

PLUMBING LEGEND:

NATURAL GAS PIPING (NG)
COLD WATER PIPING (CW)
SOFTENED COLD WATER PIPING (SCW)
DRINK FILTERED COLD WATER PIPING (DFCW)
FILTERED COLD WATER PIPING (FCW)
110 DEG HOT WATER PIPING (TW)
140 DEG HOT WATER PIPING (140)
HOT WATER RETURN PIPING (HWR)
SANITARY PIPING (SAN)
GREASE WASTE PIPING (GW)
VENT PIPING (V)
CONDENSATE PIPING (CD)
STORM (SS)

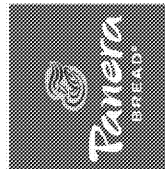
CROSS CONNECTION CONTROL SCHEDULE

FIXTURE	MAKE	MODEL	ASSE, ASME OR ANSI STANDARD
MOP SINK (FAUCET CONTAINS INTEGRAL BACKFLOW DEVICE)	INTEGRAL	-	ASSE A112.18.1 ANSI/NSF 61.9
DISHWASHER	WATTS	LF008PCQT	ASSE 1056
ICE MAKER (ABOVE SODA)	AIR GAP	INTERNAL	ASSE A112.1.2
ICE MACHINE	AIR GAP	INTERNAL	ASSE A112.1.2
CARBONATOR	WATTS	SD-3	ASSE 1022
COFFEE BREWER	WATTS	SD-3	ASSE 1022
TEA BREWER	WATTS	SD-3	ASSE 1022
SOUP RETHERMALIZER	AIR GAP	-	ASSE A112.1.2
ESPRESSO	WATTS	SD-3	ASSE 1022
BOTTLE SOFTNER	WATTS	LF009QT	ASSE 1013
WATER FILTER SYSTEM	WATTS	LF009QT	ASSE 1013
RACK OVEN	WATTS	LF007QT	ASSE 1015
DECK OVEN	WATTS	LF007QT	ASSE 1015
PROOFER	WATTS	LF007QT	ASSE 1015
CHEMICAL DISPENSER	WATTS	LF009 W/AIR GAP FITTING LF908AGA	-
FREEZEPROOF HOSEBIBB	WATTS	LF8	ASSE 1011
3-COMPARTMENT SINK	AIR GAP	-	ASSE A112.1.2
VEGETABLE PREP SINK	AIR GAP	-	ASSE A112.1.2
HAND SINKS	AIR GAP	-	ASSE A112.1.2
DROP-IN SINKS	AIR GAP	-	ASSE A112.1.2
LAVATORIES	AIR GAP	-	ASSE A112.1.2
WATER CLOSETS (FLUSH VALVE)	WATTS	188A	ASSE 1001
URINAL (FLUSH VALVE)	WATTS	188A	ASSE 1001
WATER HEATER	WATTS	LFN360	ANSI Z21.22
BUILDING WATER SUPPLY	WATTS	LF009 M2-QT OR EQUAL	ASSE 1013

PROVIDE APPROPRIATE BACK FLOW PREVENTER AT OTHER EQUIPMENT AS REQUIRED BY CODE.

ISSUE FOR REVIEW

Bakery Cafe #6119
6351 MANATEE AVE. W.,
BRADENTON, FL 34209



NO.	DESCRIPTION	DATE

DOMESTIC WATER & GAS PLUMBING PLAN

Project Number: Sheet Number:
449-18
Drawn: CSH Checked: CSH
Issue Date: 10/01/18
DPM: DM CPM
BS: DM ME

P104

Order Plans