



- ### PLUMBING FIXTURE SPECIFICATIONS
- PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR
- F1 WATER METER: BY GENERAL CONTRACTOR LOCALLY, REMOTE DIGITAL READER COORDINATE LOCATION W/WO. SEE DETAIL 6/P5.
 - F2 WATER HEATER: SEE SCHEDULE ON P5. 1" CW AND 1" 120 HW. PIPING
 - F3 SERVICE SINK FAUCET: T&S BRASS B-0665-B5TP
 - F4 WALL MOUNTED LAVATORY WITH CARRIER: SLOAN SS-3003 WHITE 3-HOLE, CODE 3873003 - FAUCET: ZURN #28600-JL SINGLE BASIN METERING FAUCET W/METAL OPEN GRID STRAINER. - STOPS: CHROME PLATED ANGLE STOPS. - DRAIN: CHROME PLATED 17 GAUGE METAL P-TRAP MAINTAIN 29" FROM FLOOR TO TOP OF LAV, PROVIDE A.D.A. WRAP'S ON DRAIN AND WATER SUPPLY LINES.
 - F5 WATER CLOSET: TOTO CST744EB#01 (ADA: CST744ELB#01) ECO DRAKE E-MAX 1.28 GPF (WHITE) DOWN TANK LID -TRIP LEVER: VERIFY WITH PLAN -STOP: CHROME PLATED ANGLE STOP SEAT: SOLID PLASTIC ELONGATED OPEN FRONT W/CHECK HINGE (WHITE)
 - F6 HOSE BIBB: ZURN "VARI-TEMP" COMBINATION HOT AND COLD WATER WALL HYDRANT #Z1325, E-100 NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING. HOSE BIBB INSTALLED AT +12" ABOVE FINISH FLOOR SURFACE.
 - F7 HOSE BIBB: ZURN "VARI-TEMP" COMBINATION HOT AND COLD WATER WALL HYDRANT #Z1325, E-100 NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING. HOSE BIBB INSTALLED AT +12" ABOVE FINISHED FLOOR.
 - F8 FLOOR SINK: ZURN #FD-2370-PV3 WITH 12" PIPING
 - F9 FLOOR DRAIN W/FUNNEL: ZURN #ZN41-73 WITH SOUND FUNNEL
 - F10 FLOOR DRAIN: ZURN #ZN415-2NH-5B
 - F11 REDUCED PRESSURE ZONE BACKFLOW PREVENTER: ZURN #34-375XL, 3/4" FEMALE THREADED BODY NPT CONNECTIONS AND BRASS STRAINER, LEAD FREE
 - F12 WALL MOUNTED URINAL: SLOAN SU-1000 UNIVERSAL HIGH-EFFICIENCY -FLUSHOMETER VALVE: TOTO TEUTONIUM CP 0.125 GPF (TOWELS HANDS FREE), INCLUDES 3/4" VACUUM BREAKER AND 3/4" ANGLE STOP SET.
 - F13 THERMOSTAT MIXING VALVE FOR LAVATORIES AND HAND SINKS: ZURN #34-ZW1017XLC
 - F14 THERMOSTAT MIXING VALVE FOR HAND SINK FIXTURE: ZURN #12-ZW1017XLC.
 - F15 GREASE INTERCEPTOR: 1,500 GALLON GREASE INTERCEPTOR OR EQUAL AS APPROVED BY HVUD. SEE DETAIL ON SHEET P5.
- FCO - FLOOR CLEANOUT: ZURN #ZN1400-4NH
WCO - WALL CLEANOUT: ZURN #Z1441

- ### PLUMBING WASTE & VENT PLAN KEY NOTES
1. CONNECT 4" WASTE LINE TO MAIN, COORDINATE LOCATION WITH CIVIL.
 2. EXTEND VENT THRU ROOF. MAINTAIN 10'-0" FROM ALL O.A. INTAKES.
 3. WALLS NOT TO CEILING. NO FULL HEIGHT VERTICAL PIPING ALLOWED.
 4. ROUTE DRAIN FROM BACKFLOW PREVENTER TO MOP SINK.
 5. INDIRECT DRAIN LINE TO FLOOR SINK.
 6. INDIRECT DRAIN LINE TO FLOOR DRAIN.
 7. WATER HEATER PTR VALVE DRAIN LINE TO MOP SINK.
 8. 6" PVC (SYRUP, FILTERED WATER & CO2 CHASE) W/LONG RADIUS FITTINGS, OVERHEAD FROM LOCATIONS SHOWN, LINES REQUIRE SWEEPING AND MINIMAL BENDS, WHEN PENETRATING METAL FRAMING, GROMMETS MUST BE USED TO PROTECT LINES FROM DAMAGE. LOCATIONS SHOWN ARE ILLUSTRATIVE. CHASES SHOULD BE CONFIGURED AS DIRECT AND WITH AS FEW BENDS AS POSSIBLE. INSULATION MAY BE REQUIRED, VERIFY WITH VENDOR.
 9. 1,500 GALLON GREASE INTERCEPTOR, SEE DETAIL 9/P5. VERIFY WITH LOCAL CODE IF REQ'D.
 10. MAINTAIN CLEARANCE REQ'D BY CODE BETWEEN SANITARY SEWER AND WATER LINE UNDERGROUND.
 11. 4" PVC (MISTY SYRUP AND CO2 CHASE) WITH LONG RADIUS FITTINGS, OVERHEAD FROM LOCATIONS SHOWN, LINES REQUIRE SWEEPING AND MINIMAL BENDS, WHEN PENETRATING METAL FRAMING, GROMMETS MUST BE USED TO PROTECT LINES FROM DAMAGE. LOCATIONS SHOWN ARE ILLUSTRATIVE. CHASES SHOULD BE CONFIGURED AS DIRECT AND WITH AS FEW BENDS AS POSSIBLE. INSULATION MAY BE REQUIRED, VERIFY WITH VENDOR.
 12. CONDENSATE DRAIN LINE (1/2" PVC OR COPPER) MOUNT TIGHT TO WALL AND ROUTE TO FLOOR DRAIN. COORDINATE LOCATION OF DRAIN WITH GENERAL CONTRACTOR
 13. CONDENSATE DRAIN LINE (1/2" COPPER), MOUNT TIGHT TO WALL AND SLOPE TO DRAIN. DRAIN LINE MUST BE WRAPPED WITH A HEAT TAPE AND INSULATED WITHIN THE WALK-IN FREEZER.
 14. ROUTE CONDENSATE DRAIN LINE TO DRAIN TO FLOOR DRAIN WITH INDIRECT CONNECTION. PROVIDE HEAT TAPE AS REQUIRED TO PREVENT FREEZING.

GREASE INTERCEPTOR CALCULATION

FORMULA: S x GS x HR x LF

S = # OF SEATS
GS = 25 GALLONS OF WASTE WATER PER SEAT
HR = # OF HOURS OPEN/12
LF = LOADING FACTOR

52 x 25 x 12/12 x 1 = 1,300 GALLONS
A 1,500 GALLON GREASE INTERCEPTOR IS REQUIRED.

PLUMBING WASTE & VENT PLAN GENERAL NOTES

1. ALL FLOOR DRAINS TO BE LEVEL WITH FLOOR, EXCEPT IN THE RESTROOMS.
2. REFER TO PLUMBING NOTES ON SHEET P1.

FIXTURE DRAIN & CONNECTION SCHEDULE

PROVIDED BY OWNER AND INSTALLED BY PLUMBING CONTRACTOR

NO.	DESCRIPTION	WASTE	VENT	WATER COLD	WATER HOT	GAS	FILTER WATER	REMARKS
1D	DRINK HEAD/ICE BIN	3/4" ID						INDIRECT DRAIN LINE TO FLOOR DRAIN. B.F.P. AS REQ. BY CODE
1D1	CARBONATOR					1/2"		PROVIDE S.S. DOUBLE CHECK BACKFLOW PROTECTOR
1D2	ICE MAKER	1/2" ID				3/8"		INDIRECT DRAIN LINE TO FLOOR DRAIN. B.F.P. AS REQ. BY CODE
2B2	OPT. BUZZARD MACH.	3/4" ID		1/4"				AC/R
2C	S.S. FREEZERS, A/C	1/2" ID						
3D	DRINK HEAD W/ICE	3/4" ID						INDIRECT DRAIN LINE TO FLOOR DRAIN. B.F.P. AS REQ. BY CODE
3D1	CARBONATOR					1/2"		PROVIDE S.S. DOUBLE CHECK BACKFLOW PROTECTOR
3C4	COFFEE BREWER					3/8"		PROVIDE FLEX WATER LINE FROM S.O.V.
4C	BOWL WASH TABLE	1 1/2" ID	1 1/2"	1/2"				INDIRECT WASTE TO FLOOR SINK
5H	FRYERS					1"		240,000 BTU
5J	CHAIN BROILER					3/4"		71,200 BTU
5M	FLAT TOP GRILL					1"		215,000 BTU
6C	HAND SINK	1 1/2"	1 1/2"	1/2"	1/2"			
6B9	HOT WATER DISPENSER				1/4"			
6D	BLAST FREEZER	3/4" ID						INDIRECT WASTE TO FLOOR DRAIN
6F	SCRUB SINK	2" ID	1 1/2"	3/4"	3/4"			PROVIDE 1/2" FLEX WATER LINE AT S.O.V. INDIRECT WASTE TO FLOOR SINK
6G	VEGETABLE SINK	2" ID	1 1/2"	3/4"	3/4"			PROVIDE 1/2" FLEX WATER LINE AT S.O.V. INDIRECT WASTE TO FLOOR SINK
6K	ICE MAKER	3/4" ID				1/2"		INDIRECT WASTE TO FLOOR DRAIN
6K3	ICE BIN	3/4" ID						
6D	H2O FILTER SYSTEM			3/4"				SEE DETAIL 8/P4

NOTE: THIS IS A PROTOTYPICAL SCHEDULE, ALL EQUIPMENT PEICES MAY NOT BE USED.

FIXTURE DRAIN & CONNECTION SCHEDULE

PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR

NO.	DESCRIPTION	WASTE	VENT	WATER COLD	WATER HOT	GAS	FILTER WATER	REMARKS
F1	WATER METER			1 1/2"				SEE DETAIL SHEET P4
F2	WATER HEATERS	3/4" P.R.V.		1"	1"	3/4"		SEE DETAIL SHEET P4
F3	SERVICE SINK FAUCET			3/4"	3/4"			
F4	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"			
F5	WATER CLOSET	3"	2"	1/2"				
F6	HOSE BIBB			1/2"	1/2"			
F7	HOSE BIBB			1/2"	1/2"			
F8	FLOOR SINK	3"	2"					
F9	FLOOR DRAIN	3"	2"					WITH FUNNEL
F10	FLOOR DRAIN	3"	2"					
F11	BACKFLOW PREVENTER							
F12	URINAL	2"	1 1/2"	1/2"				
F13	MIXING VALVE			3/4"	3/4"			OUTPUT AT 110" FOR FIXTURES
F14	MIXING VALVE			1/2"	1/2"			OUTPUT AT 110" FOR FIXTURES
F15	GREASE INTERCEPTOR	4"	4"					

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
○	FLOOR DRAIN
●	FLOOR DRAIN W/FUNNEL
□	FLOOR SINK
D.C.O.	DOUBLE CLEAN OUT
F.C.O.	FLOOR CLEAN OUT
W.C.O.	WALL CLEAN OUT
V.T.R.	VENT THRU ROOF
B.F.P.	BACKFLOW PREVENTER
S.O.V.	SHUT-OFF VALVE
---	WASTE - BELOW FLOOR
---	SYRUP LINES/CHASE - OVERHEAD
---	VENT
---	FILTERED WATER
---	DCW-DOMESTIC COLD WATER
---	DHW-DOMESTIC HOT WATER (120F OR 110F)

1 PLUMBING WASTE & VENT PLAN
P2 SCALE: 1/4" = 1'-0"

Order Plans

NEW BUILDING FOR:

INTERSECT OF DAVENPORT & ALABAMA AVENUE
BREMEN, MN 55410
CELL # 252 0065

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ISSUE DATE: 10-26-18
REVISION DATE: 10-26-18 ORIGINAL ISSUE

PLUMBING WASTE & VENTING PLAN

SHEET NUMBER:
P3