

GENERAL NOTES	
1	VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING BEFORE COMMENCEMENT OF WORK, AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
2	OBTAIN EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES AND KITCHEN EQUIPMENT FROM ARCHITECTURAL AND KITCHEN EQUIPMENT DRAWINGS.
3	CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL PERMITS, FEES, CHARGES AND METERS.
4	PLUMBING CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR FLOOR SINKS AND FLOOR DRAINS. THE GOVERNING AUTHORITY HAVING JURISDICTION MAY REQUIRE THE FOLLOWING: FLOOR SINKS MAY BE REQUIRED TO BE INSTALLED WITH THE RIM RAISED ABOVE THE FINISHED FLOOR. FLOOR DRAINS MAY NEED TO BE RECESSED WITH THE FLOOR SLOPED TO THE DRAIN. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS INFORMATION AND INSTALLING THESE ITEMS AS REQUIRED BY CODE.
5	INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. NO WATER OR DRAIN LINES PERMITTED OVER OR UNDER ELECTRICAL PANELS. ENSURE THAT ALL WATER LINES INSIDE WALLS ARE ADEQUATELY SECURED.
6	PROVIDE TRAPS, STOPS, GATE VALVES, GAS COCKS, WATER HAMMER ARRESTERS, VACUUM BREAKERS ON THREADED FAUCETS, WALL CLEANOUTS, CLEANOUT COVERS, FLEX CONNECTIONS, SHUT-OFF VALVES AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY INSTALLED & CONNECTED PLUMBING SYSTEM.
7	RECORD ON AS-BUILT DRAWINGS, ALL SIZES, LOCATIONS, INVERTS AND MATERIALS OF EXISTING PIPES THAT ARE ENCOUNTERED AND NEW PIPES INSTALLED DURING THE COURSE OF THE PROJECT DELIVER AS-BUILTS TO THE CONSTRUCTION MANAGER AT THE END OF THE PROJECT.
8	ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL AND FEDERAL CODES, RULES AND REGULATIONS GOVERNING THIS PROJECT.
9	UPON COMPLETION OF JOB, INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATIONS AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
10	TERMINATE ALL INDIRECT WASTE LINES ABOVE FLOOR SINK WITH 1" (MIN.) AIR GAP. ALL INDIRECT WASTE PIPING MUST BE HARD PIPED, COPPER ONLY. NO P.V.C. ALLOWED.
11	PROVIDE FLEXIBLE GAS CONNECTIONS TO WATER HEATER AND COOKING EQUIPMENT. PROVIDE RIGID GAS CONNECTIONS TO ALL OTHER EQUIPMENT AND APPLIANCES AND WHERE LOCAL JURISDICTION PROHIBITS THE USE OF FLEXIBLE CONNECTIONS.
12	VERIFY ALL EQUIPMENT AND APPLIANCE CONNECTION SIZES PRIOR TO MAKING FINAL CONNECTION. REDUCE BRANCH PIPE SIZING JUST PRIOR TO CONNECTION TO UNIT.

GAS DEMAND SCHEDULE		
TAG	ITEM	DEMAND BTU
RTU-1	ROOF TOP UNIT	390,000
RTU-2	ROOF TOP UNIT	240,000
RTU-3	ROOF TOP UNIT	240,000
1199	4 BANK FRYER	300,000
120	3 BANK FRYER	300,000
188	CONVECTION OVEN	27,000
GWH	GAS WATER HEATER	199,000
122A	GRIDDLE	150,000
TOTAL BTU DEMAND =		1,856,000

NOTE: SEE KITCHEN EQUIPMENT PLANS FOR FINAL CONNECTION REQUIREMENTS OF EQUIPMENT.

TOTAL DEVELOPED LENGTH OF TENANT SYSTEM = 175'-0"

2 PSI MEDIUM PRESSURE GAS GAS PIPING SYSTEM SIZED FROM THE 2008 IPC

LOW PRESSURE GAS (17" max H₂O) GAS PIPING SYSTEM SIZED FROM THE 2008 IPC

NOTE: ALL COOKING SURFACES, KITCHEN EXHAUST SYSTEMS, GREASE REMOVAL DEVICES AND HOODS SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC FIRE SUPPRESSION SYSTEM AS SHOWN ON KITCHEN AND HOOD DRAWINGS. THE ACTUATION OF THE FIRE SUPPRESSION SYSTEM SHALL AUTOMATICALLY SHUT DOWN THE FUEL SUPPLY TO THE COOKING EQUIPMENT AS SHOWN IN BOTH KITCHEN AND LIVING DRAWINGS. THE FIRE SUPPRESSION SYSTEM SHALL BE INTERLOCKED WITH THE GAS SOLINOID VALVES.

WATER HEATER SIZING CALCULATIONS		
FORMULA FOR MIXING HOT AND COLD WATER		
M ₂ =	% OF HOT WATER REQUIRED TO PRODUCE DESIRED MIXED TEMPERATURE	
WHERE:	M = MIXED WATER TEMPERATURE	
	C = COLD WATER TEMPERATURE	
	H = HOT WATER TEMPERATURE	
TEMPERATURE FACTORS - COLD WATER		
WHEN INCOMING COLD WATER IS	MULTIPLY HOT WATER LOAD BY	
50°	0.90	
60°	0.80	
70°	0.70	
GENERAL PURPOSE HOT WATER CONSUMPTION FOR VARIOUS KITCHEN USAGES		
APPLICATION	QTY	CONSUMPTION (GPH)
4-COMP BAR SINK	1	1 X 18 = 18
BLENDER STATION	2	2 X 5 = 10
DUMP SINK & HAND SINK	2	2 X 5 = 10
3-COMP POT SINK	1	1 X 99 = 99
PRODUCE SINK	1	1 X 5 = 5
HAND SINKS	3	3 X 5 = 15
LAVATORIES	4	4 X 5 = 20
MOP SINK	1	1 X 10 = 10
DISHWASHER -	1	1 X 28.8 = 28.8
GLASSWASHER -	1	1 X 28.8 = 28.8
TOTAL CONSUMPTION = 203 GPM REQ'D @ 100°F RISE		
TOTAL CONSUMPTION	TEMP FACTOR	TOTAL GPM REQUIRED
203 GPM	X 0.90	= 183 GPM @ 90° RISE
WATER HEATER SELECTED PROVIDES - 200 GPM @ 100°F RISE		

DOMESTIC WATER HEATER (GWH)				
DESIGNATION	GPH INPUT	GPH RECOVERY 100°F	FUEL	MANUFACTURER MODEL
GWH GAS WTR. HTR.	199	230	NATURAL GAS	A.O. SMITH - CYCLOPS MODEL 191TH - 199 GPH PRESSURE RISE @ 120 PSI 105 GALLON 57 SEALS DIRECT AND COMBUSTION AIR EXPANSION TANK - AMTRON MODEL # ST-12

NOTES:
 1. THIS SYSTEM IS TO BE SET UP TO DELIVER 140°F HOT WATER.
 2. CONTACT MANUFACTURE FOR START UP AND INSTALLATION INSPECTOR.
 3. GAS VENT SHALL BE INNOFLUE PIPE AND FITTING LISTED VENT SYSTEM OR CENTROTHERM ECO SYSTEMS. CONTACT BURNER SALES AT 763-420-1111.
 4. NO SUBSTITUTIONS WILL BE ALLOWED.

PIPING MATERIALS LEGEND	
SEWER BELOW GRADE	SCHEDULE 40 PVC
WASTE VENT ABOVE GRADE	SCHEDULE 40 PVC
COLD & HOT WATER ABOVE GROUND	TYPE 'K' COPPER
COLD WATER (BURIED)	TYPE 'K' COPPER
GAS (ON ROOF)	SCHEDULE 40 BLACK IRON
GAS (INSIDE BUILDING)	SCHEDULE 40 BLACK IRON
CONDENSATE DRAIN	TYPE 'M' COPPER
INDIRECT DRAIN (INSIDE BUILDING)	DHW COPPER

NOTE: REFER TO PROJECT SPECIFICATION MANUAL.

BACKFLOW PREVENTER SCHEDULE			
DESCRIPTION	TAG	VALVE MODEL	ASSE
WATER SERVICE	RPZ	WATTS 2" # 803-Q1-S	1013
CARBONATOR	RPZ	WATTS 1/2" # S200GT-S	1013
ICE - MACHINE	DVC	WATTS 3/8" # S03-FN	1022
DISH-MACHINE	DVC	WATTS 3/8" # S03-FN	1022
GLASS WASHER	DVC	WATTS 3/8" # S03-FN	1022
COFFEE/TEA BREWER	DCV	WATTS 3/8" # S03-FN	1022
ECOLAB CHEMICAL DISPENSERS	RPZ	WATTS 1/2" # D09GT-S	1013
CHECK VALVES		WATTS # LF 600 SERIES	N/A

NOTE:
 1. VERIFY MAIN WATER SERVICE BACKFLOW PREVENTION REQUIREMENTS WITH LOCAL CODES AT START OF CONSTRUCTION. PROVIDE BACKFLOW PREVENTER ON MAIN SERVICE IF REQUIRED.
 2. ALWAYS VERIFY BACKFLOW VALVE REQUIREMENTS AND APPROVAL FOR ALL EQUIPMENT WITH AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION.
 3. CARBONATOR TO HAVE STAINLESS STEEL 303 DOUBLE CHECK VALVE (DCV).
 4. PROVIDE "Y" STRAINERS FOR ALL BACKFLOW PREVENTERS.
 5. ALL BACKFLOW PREVENTERS ON THE PROJECT NEW AND OR EXISTING HAVE TO BE TESTED AND INSPECTED AS REQUIRED BY CODE AND THE AUTHORITY HAVING JURISDICTION. PLUMBING CONTRACTOR TO PROVIDE TESTING DOCUMENTATION TO THE OWNER/OPERATOR FOR THEIR RECORDS.

PROJECT: BUFFALO WILD WINGS CODE MINNESOTA PLUMBING CODE (2012 IPC)						
ITEM	DESCRIPTION	QTY	TRAP SIZE	D.F.U.	TOTAL D.F.U.	TOTAL W.S.F.U.
WC	WATER CLOSET (FLUSH VALVE)	4	1"	40 SAN	160	40.0
UR	URINAL (FLUSH VALVE)	2	2"	40 SAN	80	10.0
LAV	LAVATORY	4	1 1/2"	10 SAN	40	8.0
FD	FLOOR DRAIN (EMGY) (TOILET)	2	3"	50 SAN	100	20.0
129FS	4-COMP BAR SINK (2 FAUCETS)	1	3"	50 SAN	50	8.0
107	HAND SINK (BAR)	1	3"	10 SAN	10	2.0
107	HAND SINK (KITCHEN)	2	1 1/2"	10 SAN	20	4.0
111FS	BLENDER STA. (BAR)	2	3"	50 SAN	100	20.0
112FS	HAND SINK/DUMP SINK (BAR)	2	3"	50 SAN	100	20.0
134	DISH-WASHER	1	3"	50 SAN	50	10.0
FD	FLOOR DRAIN (WALK-IN BEER)	1	3"	50 SAN	50	10.0
FD	FLOOR DRAIN (WALK-IN CUP)	2	3"	50 SAN	100	20.0
FS	FLOOR SINK (W/HTK SFT.)	1	3"	50 SAN	50	10.0
FS	FLOOR SINK (W/HTK SFT.)	1	3"	50 SAN	50	10.0
FD	TROUGH DRAIN (ICE MACHINE)	1	3"	50 SAN	50	10.0
195FD	FLOOR DRAIN (ICE MACHINE)	1	3"	50 SAN	50	10.0
FRWH	FREEZE PROOF WALL HYDRANT	2	-	-	0	0.0
130FS	GLASS WASHER	1	3"	50 GW	50	4.0
FD	FLOOR DRAIN (SERVICE COOR.)	2	3"	50 GW	100	4.0
137FS	3-COMP SINK	1	3"	50 GW	50	4.0
138FS	PRODUCE SINK	1	3"	50 GW	50	4.0
139FS	DISH-WASHER	1	3"	50 GW	50	4.0
P-5	MOP SINK	1	3"	50 GW	30	3.0
380FD	WATER FILTER/BEVERAGE STA	1	3"	50 GW	20	2.0
199A	PRE-RINSE	1	3"	50 GW	40	4.0
TOTAL FIXTURE UNITS:					107.0 SAN	W.S.F.U.
W.S.F.U.					107.0 FU = 70 GPM (2" METER AND WATER SERVICE)	107.0
D.F.U.					102.0 FU = 4" PIPING HORIZONTAL @ 1/4" PER FOOT SLOPE (216 FU MAX)	

WATER CALCULATIONS (2012 IPC) APPENDIX "E"	
DOMESTIC WATER SERVICE = 2" WATER METER AND 2" BLDG. PIPING	
10.0 WSPU = 70 GPM - ON FLUSH VALVE SYSTEM - TABLE E103.3(3)	
70 GPM + 4.5 PSI LOSS - FOR 2" DISK TYPE WATER METER	
70 GPM + 0.55 PSI LOSS - FOR 2" TAP & SERVICE - TABLE E103.3(4)	
AVAILABLE PRESSURE	APPROXIMATE = 65 ± PSI
PRESS. LOSS ACROSS TAP	LOSS = 4.5 PSI
PRESS. LOSS ACROSS METER	LOSS = 0.55 PSI
STATIC PRESS. LOSS (ELEV.) (16' X 0.43)	LOSS = 7.74 PSI
GOVERNING FIXTURE - WATER CLOSET	LOSS = 25 PSI
BACKFLOW PREVENTER - (2" RPZ)	LOSS = 15 PSI
TOTAL PRESSURE AVAILABLE	17.21 PSI
DISTANCE FROM METER TO LAST FIXTURE	415'
TOTAL DEVELOPED LENGTH OF SYSTEM (X 1.3)	539.5'
ALLOW. PRESS. 17.21 X 100	1721
LOSS/100 FT.	519'
AVERAGE PRESS. DROP AVAILABLE FOR FRICTION	3.40 PSI
FRICTION LOSS PER SQ. IN. HD. PER 100-FOOT LENGTH	4.0 PSI
2" SMOOTH BORE PIPE E103.3(2)	VELOCITY = 7.0 FPS

PROJECT: BUFFALO WILD WINGS CODE MINNESOTA PLUMBING CODE (2012 IPC)						
ITEM	DESCRIPTION	QTY	TRAP SIZE	D.F.U.	TOTAL D.F.U.	TOTAL W.S.F.U.
108FS	GLASS WASHER	1	3"	50 GW	50	4.0
137FS	3-COMP SINK	1	3"	50 GW	50	4.0
138FS	PRODUCE SINK	1	3"	50 GW	50	4.0
139FS	DISH-WASHER/PRE-RINSE	1	3"	10.0	10.0	10.0
P-5	MOP SINK	1	3"	50 GW	30	3.0
FD	FLOOR DRAIN	2	3"	50 SAN	100	20.0
380FD	WATER FILTER/BEVERAGE STA	1	3"	50 GW	20	2.0
TOTAL FIXTURE UNITS:					45.0 GW	
D.F.U.					45.0 FU = 25 GPM (EQUAL TO 25 GPM/50 LB CAPACITY REQUIRED)	
NOTE: 2008 IPC						
1,500 GALLON INTERCEPTOR PROVIDED						

PLUMBING FIXTURE AND SPECIALTIES SCHEDULE (SEE COMPREHENSIVE EQUIPMENT SCHEDULE ON SHEET EQ02)									
MARK	DESCRIPTION	CONNECTIONS				MODEL NUMBER AND NOTES			
		HW	CW	V	W				
P-1	WATER CLOSETS ADA COMPLIANT	1"	2"	3"		TOTO: CT105EN(G) PROVIDE JUMBO WAX RINGS TOTO: TET1LA			
	FLUSHING SYSTEM					QUIET, EXPOSED, HYDROPOWER SELF-GENERATING SYSTEM, PISTON VALVE, CHROME PLATED, LEFT OR RIGHT HAND BRASS OVER RISE BUTTON, INTEGRAL SOLENOID OPERATOR, VANDAL-RESISTANT SCREWS, ANGLE STOP VALVE, PRESSURE VACUUM BREAKER FLUSH CONNECTION, FOR 1 1/2" SPUD WATER CLOSURES, 1.28 GPF			
	SEAT					COMMERCIAL DUTY, EXTRA HEAVY WEIGHT, INJECTION MOLDED SOLID PLASTIC, LARGE MOLDED BUMPERS, STAINLESS STEEL POSTS, SELF-SUSTAINING, CONCEALED STAINLESS STEEL CHECK HINGE HOLDING SEAT IN ANY RAISED POSITION UP TO 11 DEG. BEYOND VERTICAL, OPEN FRONT, LESS COVER, COLOR: WHITE			
P-2	WATER CLOSETS	23 PSI MINIMUM WORKING PRESSURE, FLUSH VALVE OPERATION, VITREOUS CHINA, ELONGATED FRONT BOWL, 1.28 GALLONS PER FLUSH, BOTTOM OUTLET, 1 1/2" TOP INLET SPUD, FLOOR MOUNTED, COLOR: WHITE				TOTO: CT105EN(G) PROVIDE JUMBO WAX RINGS TOTO: TET1LA			
	FLUSHING SYSTEM	QUIET, EXPOSED, HYDROPOWER SELF-GENERATING SYSTEM, PISTON VALVE, CHROME PLATED, LEFT OR RIGHT HAND SUPPLY, INFRARED SENSOR WITH INDICATOR LIGHT, FLUSH OVER RISE BUTTON, INTEGRAL SOLENOID OPERATOR, VANDAL-RESISTANT SCREWS, ANGLE STOP VALVE, PRESSURE VACUUM BREAKER FLUSH CONNECTION, FOR 1 1/2" SPUD WATER CLOSURES, 1.28 GPF				CHURCH: 9500SBC			
	SEAT	COMMERCIAL DUTY, EXTRA HEAVY WEIGHT, INJECTION MOLDED SOLID PLASTIC, LARGE MOLDED BUMPERS, STAINLESS STEEL POSTS, SELF-SUSTAINING, CONCEALED STAINLESS STEEL CHECK HINGE HOLDING SEAT IN ANY RAISED POSITION UP TO 11 DEG. BEYOND VERTICAL, OPEN FRONT, LESS COVER, COLOR: WHITE				CHURCH: 9500SBC			
P-3	URINAL ADA	LOW CONSUMPTION 0.5 GPF, VITREOUS CHINA, WALL MOUNTED, STANDARD BOWL, ADA COMPLIANT, WASHOUT FLUSHING ACTION, 3/4" TOP INLET SPUD, 2" OUTLET, COLOR: WHITE	1"	2"	3"	TOTO: TEU1LA			
	FLUSH VALVE	3/4" TOP SPUD FOR URINALS, 0.5 GPF, QUIET, PISTON VALVE, CHROME PLATED, LEFT OR RIGHT HAND SUPPLY, INFRARED SENSOR WITH INDICATOR LIGHT, SOLENOID OPERATOR, VANDAL RESISTANT SCREWS, ANGLE STOP SET, ADJUSTABLE TAILPIECE, VACUUM BREAKER, HYDROPOWER SELF-GENERATING SYSTEM				ZURN: 21222			
	CARRIER	FIXTURE CARRIER, WALL URINAL SUPPORT SYSTEM, TOP AND BOTTOM SUPPORT PLATES, COATED RECTANGULAR STEEL UPRIGHTS, WELDED FEET, ADJUSTABLE SUPPORT PLATES, MOUNTING FASTENERS				ZURN: 21222			
P-3A	MOUNTING HEIGHT	MOUNT TOP OF LIP RIM AT 17" MAXIMUM ABOVE FINISHED FLOOR - AT ADA COMPLIANT HEIGHT							
	FLUSH VALVE	LOW CONSUMPTION 0.5 GPF, VITREOUS CHINA, WALL MOUNTED, STANDARD BOWL, 2 1/4" A.F.F., WASHOUT FLUSHING ACTION, 3/4" TOP INLET SPUD, 2" OUTLET, COLOR: WHITE	1 1/2"	2"	3"	TOTO: UT104E TOTO: TEU1LA			
	CARRIER	FIXTURE CARRIER, WALL URINAL SUPPORT SYSTEM, TOP AND BOTTOM SUPPORT PLATES, COATED RECTANGULAR STEEL UPRIGHTS, WELDED FEET, ADJUSTABLE SUPPORT PLATES, MOUNTING FASTENERS				ZURN: 21222			
P-4	LAVATORIES	TROUGH SINK BOWL, FURNISHED BY MILLWORK VENDOR, INSTALLED BY GC	1/2"	1/2"	1 1/4"	1 1/4"	CORIAN		
	FAUCET	CHROME PLATED, SENSOR ACTIVATED, CAST BRASS PEDESTAL ELECTRONIC FAUCET, VANDAL RESISTANT SPRAY HEAD, SPLASH-PROOF CIRCUIT CONTROL, MODULE, SENSOR RANGE ADJUSTMENT SCREW, FILTERED SOLENOID VALVE WITH SERVICABLE STRAINER FILTER, SINGLE SUPPLY, CHROME PLATED BRASS GRID STRAINER, FAUCET REACH: 8 5/16", FAUCET HEIGHT ABOVE DECK: 4 11/16", RIGID SPOUT, METAL GRID STRAINER, 0.17 GALLONS PER CYCLE, 1/2" NPSM MALE INLET SPANKS, HYDROPOWER SELF-GENERATING SYSTEM					TOTO: TEL445-D10ECP NO WATERSENSE CERTIFICATION FOR COMMERCIAL FAUCETS		
	SUPPLIES	CHROME PLATED ANGLE STOPS WITH WHEEL HANDLE, CHROME PLATED FLEXIBLE BRASS RISER, INSULATE ALL EXPOSED WATER LINES AND VALVES					GRID STRAINER: SPEAKMAN S-3440		
P-5	WASTE	2" DIA. CHROME PLATED ADJUSTABLE BRASS P-TRAP WITH 1 1/4" CHROME PLATED WALL CLEANOUT							
	MOP SINK	3/4" DOMESTIC HOT AND COLD WATER CONNECTIONS FOR 140 DEG. F. HOT SUPPLY, MOP SINK AND FAUCET. FURNISHED AND INSTALLED BY P.C.	3/4"	3/4"	1 1/2"	3"	MUSTEE: 6M CHEMICAL DISPENSER CHGAD FAUCET: 891-CP NO WATERSENSE CERTIFICATION FOR COMMERCIAL FAUCETS		
	WALL HYDRANT	18" ABOVE FINISHED GRADE OR FOR NON-FREEZE CLIMATE, ENCASED, ANTI-SIPHON, AUTOMATIC DRAINING, COPPER CASING, ALL BRASS INTERIOR, WALL HYDRANT WITH NON-TURNING OPERATING ROD WITH FREE-FLOATING COMPRESSIBLE NON-FUNCTIONING MEMBRANE CLAMP, BOTTOM OUTLET, OUTLET CONNECTION METHOD SHALL BE COMPATIBLE WITH PIPING MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS, 3" DIAMETER ROUND STRAINER, CHROME-PLATED AND HINGED COVER WITH LOOSE OPERATING KEY		3/4"			WOODFORD: MODEL B67-CH NO WATERSENSE CERTIFICATION FOR COMMERCIAL FAUCETS		
P-6	TRAP PRIMER	PRESSURE ACTIVATED TRAP PRIMER, BRASS CONSTRUCTION, PISTON OPERATED, ADJUSTMENT FOR VARIABLE PRESSURE, INSTALL TRAP PRIMER A MINIMUM OF 12" ABOVE THE TRAP BEING SERVED, PROVIDE AIR GAP FITTING WITH 1/2" MALE NPT INLET FITTING AND 1/2" FEMALE OUTLET FITTING, THREE TRAP APPLICATION		1/2"			PRECISION PRODUCTS: P1-500		
	DISTRIBUTION	COPPER BODY DISTRIBUTION UNIT - 4 - 3/8" FPT BRASS DISCHARGE FITTINGS, 1/2" MALE NPT COMPOSITE INLET, PROVIDE PLUGS AS REQUIRED BY APPLICATION					PRECISION PRODUCTS: DU-4		
	FLOOR DRAIN	POLISHED NICKEL BRONZE STRAINER, HEAVY DUTY GRATE, COATED CAST IRON, TWO-PIECE BODY, DOUBLE DRAINAGE FLANGE, ADJUSTABLE EXTENSION AS REQUIRED BY APPLICATION, ADJUSTABLE COLLAR WITH BESEAFE SLOTS, INVERTIBLE NON-PUNCTURING MEMBRANE CLAMP, BOTTOM OUTLET, OUTLET CONNECTION METHOD SHALL BE COMPATIBLE WITH PIPING MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS, 7" DIAMETER ROUND STRAINER, 1/2" TRAP PRIMER CONNECTION			1 1/2"	3"	ZURN: ZN415M		
FD-2	FLOOR DRAIN	POLISHED NICKEL BRONZE STRAINER WITH 4" DIAMETER FUNNEL, COATED CAST IRON, TWO-PIECE BODY, DOUBLE DRAINAGE FLANGE, ADJUSTABLE EXTENSION AS REQUIRED BY APPLICATION, ADJUSTABLE COLLAR WITH BESEAFE SLOTS, INVERTIBLE NON-PUNCTURING MEMBRANE CLAMP, BOTTOM OUTLET, OUTLET CONNECTION METHOD SHALL BE COMPATIBLE WITH PIPING MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS, 7" DIAMETER ROUND STRAINER, 1/2" TRAP PRIMER CONNECTION			1 1/2"	3"	ZURN: ZN415-7E		
	FLOOR SINK	CHROME PLATED FLOOR SINK, COATED CAST IRON BODY, WHITE ACID-RESISTING PORCELAIN ENAMEL, INTERIOR COATING, ABS ANTI-SPLASH DEMO, WHITE STRAINER, 1/2-GRATE OR FULL GRATE WITH CENTER OPENING, ADJUSTABLE EXTENSION AS REQUIRED BY APPLICATION, OUTLET CONNECTION METHOD SHALL BE COMPATIBLE WITH PIPING MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS			1 1/2"	3"	ZURN: 21900		
	TRENCH DRAIN	40 INCH LONG POLYMER CONCRETE CHANNEL, 4" WIDE, BOTTOM OUTLET, STAINLESS STEEL GRATE: 4000			2"	3"	ACC: H100		
FCO	CLEANOUT - FLOOR	ACID RESISTING COATED CAST IRON BODY, ADJUSTABLE, GAS AND WATER TIGHT ABS TAPERED THREADED INTERNAL CAST IRON PLUG, VANDAL-PROOF FASTENERS, OUTLET CONNECTION METHOD SHALL BE COMPATIBLE WITH PIPING MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS, MEDIUM DUTY, ROUND SCORATED SECURED POLISHED BRONZE FRAME AND COVER WITH ANCHOR FLANGE WITH 100° IN COVER, INSTALLED FLUSH WITH FINISHED FLOOR, PROVIDE GARBET MARKERS WHERE INSTALLED BELOW GARRET				SEE PLANS	ZURN: ZB1400-VP		
	CLEANOUT - WALL	ACID RESISTING COATED CAST IRON CLEANOUT TEE, COUNTERSUNK BRONZE PLUG, ROUND STAINLESS STEEL SECURED ACCESS COVER, ACID RESISTING COATED CAST IRON CLEANOUT TEE, COUNTERSUNK BRONZE PLUG, ROUND STAINLESS STEEL SECURED ACCESS COVER, STANDARD FASTENERS				SEE PLANS	ZURN: 21441-VP		
	FREEZE PROOF ROOF HYDRANT	BACKFLOW PREVENTER, CASTIRON SUPPORT COMPONENTS, AUTOMATIC DRAIN		3/4"			WOODFORD: MODEL RYF24MS. ROUTE DRAIN TO FLOOR SINK OR FLOOR DRAIN		
WS-1 (343)	WATER SOFTENER	FURNISHED AND INSTALLED BY OWNER. THE FINAL PLUMBING CONNECTIONS BY G.C. VERIFY SOFTENER SIZE WITH OWNER'S VENDOR.		1 1/2"			CULLIGAN: HE-1.25 - 16", 22 GPM @ 15 PSI		

KITCHEN EQUIPMENT SCHEDULE (SEE COMPREHENSIVE EQUIPMENT SCHEDULE ON SHEET EQ02)									
MARK	DESCRIPTION	CONNECTIONS				MODEL NUMBER AND NOTES			
		HW	CW	V	W				
106	4-COMP SINK	3/4"	3/4"	-	2"	CHEMICAL DISPENSER			
107A	HAND SINK	1/2"	1/2"	1 1/2"	1 1/2"	WALL MOUNTED W/ SPLASH SHIELD (LR) P.C. TO PROVIDE AND INSTALL MIXING AND CHECK VALVES			
107B	HAND SINK	1/2"	1/2"	1 1/2"	1 1/2"	COUNTER TOP P.C. TO PROVIDE AND INSTALL MIXING AND CHECK VALVES			
108ER(P)	GLASS WASHER	-	3/4"	-	3/4"	WATER FILTER SELECTO SCIENTIFIC SBF-IC820+ CHEMICAL DISPENSER			
111(L)	DUMP SINK	1/2"							