

NOTE:
ALL WATER & GAS LINES TO BE RUN IN DROPPED CEILING SPACE @ ALL FLOORS.
ALL SEWER LINES TO BE RUN UNDER EACH FLOOR.
PROVIDE 2" W/O UNDER LAVATORY IN EACH GUEST ROOM BATHROOM - REFER TO DETAIL (P7)
REFER TO OVERALL PLUMBING PLANS FOR CONTINUATION OF MAIN WATER & SEWER PIPING

WASTE FIXTURE UNIT SCHEDULE

FIXTURE	NO. REQD.	UNITS-EACH	UNITS-TOTAL	WASTE	VENT
WATER CLOSET (PRIVATE)	100	4	400	3"	2"
WATER CLOSET (PUBLIC)	3	6	18	3"	2"
LAVATORY (PRIVATE)	100	1	100	2"	1 1/2"
LAVATORY (PUBLIC)	3	1	3	2"	1 1/2"
TUB OR SHOWER	100	2	200	2"	1 1/2"
BAR SINK	4	1	4	2"	1 1/2"
LAUNDRY TRAY	1	2	2	2"	1 1/2"
CLOTHES WASHER	5	2	10	4"	1 1/2"
DRINKING FOUNTAIN	1	1	1	2"	1 1/2"
KITCHEN SINK	1	2	2	2"	1 1/2"
FLOOR DRAIN	4	2	8	2"	1 1/2"
FLOOR SINK	4	1	4	2"	1 1/2"
TOTAL WASTE UNITS			759		

WATER FIXTURE UNIT SCHEDULE

FIXTURE	NO. REQD.	UNITS-EACH	UNITS-TOTAL	COLD SUPPLY	HOT SUPPLY
WATER CLOSET (PRIVATE)	100	3	300	3/4"	-
WATER CLOSET (PUBLIC)	3	5	15	3/4"	-
LAVATORY (PRIVATE)	100	1	100	1/2"	1/2"
LAVATORY (PUBLIC)	3	2	6	1/2"	1/2"
TUB OR SHOWER	100	2	200	1/2"	1/2"
BAR SINK	4	1	4	1/2"	1/2"
LAUNDRY TRAY	1	4	4	1/2"	1/2"
CLOTHES WASHER (PUBLIC)	4	10	40	1"	1"
DRINKING FOUNTAIN	1	2	2	1/2"	-
HOSE BIBB	6	3	18	3/4"	-
KITCHEN SINK	1	2	2	1/2"	1/2"
CLOTHES WASHER (PRIVATE)	1	6	6	3/4"	3/4"

PLUMBING FIXTURE SCHEDULE

SYM.	NO. REQD.	FIXTURE	MANUFACTURER	CATALOG NO.	REMARKS
F1	95	WATER CLOSET (NON H/C)	UNIVERSAL RUNDLE	UC4163	ELONG BOWL, W/OPEN FR. SEAT
F2	8	WATER CLOSET (H/C)	UNIVERSAL RUNDLE	UR4156	ELONG BOWL, W/OPEN FR. SEAT
F3	102	LAVATORY	---	---	VANITY TOP & BOWL COMPLETE BY COUNTERTOP SUPPLIER
F4	1	LAVATORY (H/C)	AMERICAN STD.	0373.027	WALL HUNG, W/SINGLE LEVER FAUCET
F5	91	TUB/SHOWER (NON H/C)	AMERICAN STD.	246.002 (2460.002)	SLIP RESIST. FIB./AMERICAST/CAMBRIDGE
F6	4	TUB/SHOWER (H/C)	AMERICAN STD.	246.002 (2460.002)	W/SEAT & SLIP RESIST. FIB./AMERICAST/CAMBRIDGE
F7	4	WHIRLPOOL	AMERICAN STD.	246.008 (2460.008)	SLIP RESIST. FIB./AMERICAST/CAMBRIDGE
F8	1	ROLL-IN SHOWER (H/C)	FLORESTONE	44-52H	AMERICAST/CAMBRIDGE
F9	4	BAR SINK	ELKAY	PSR-1720	SINGLE BOWL, W/FAUCET
F10	1	KITCHEN SINK	ELKAY	ECO-3322	DOUBLE SINK
F11	1	LAUNDRY TRAY	AMERICAN STD.	7602.124	W/PEDESTAL & WALL BRCKT. SUPPORT
F12			NOT USED		
F13	1	ELEC. WATER COOLER	HAMS	HMC48	WALL MOUNTED H/C ACCESSIBLE
F14	4	FLOOR SINK	AMERICAN STD.	7764.062	UNDER ICE MACHINES
F15		SEE PLAN FLOOR DRAIN	J.R. SMITH	2005-1	MECHANICAL ROOM / POOL EQUIP. ROOM
F16		SEE PLAN FLOOR DRAIN	J.R. SMITH	2671-G	LAUNDRY ROOM TRENCH
F17		SEE PLAN FLOOR DRAIN	J.R. SMITH	3510	W/FUNNEL DRAIN
F18		SEE PLAN FLOOR CLEANOUT	J.R. SMITH	4251-U	
F19		SEE PLAN WALL CLEANOUT	J.R. SMITH	4530	W/L.R. SMITH 4710 S.S. COVER
F20			NOT USED		
F21	6	HOSE BIBB	CHICAGO	562	W/VACUUM BREAKER
F22	1	BACKFLOW PREVENTER	WATTS	SERIES 309	DOMESTIC WATER SERVICE, 3" SERVICE
F23			NOT USED		
F24	2	WATER HEATER	A.O. SMITH	BTG-240	100 GAL. / 240W. BTU / 2000PH @ 100" RISE
F25	2	HOT WATER STORAGE TANK	A.O. SMITH	T-200	200 GAL. CAPACITY (VERTICAL MTS.)
F26			NOT USED		

NOTE:
F1 & F2 WATER CLOSETS SHALL BE ELONGATED TYPE, 17"-16" HIGH PER TILE 24. SEC. F1502 W/OPEN FRONT SEATS / MOUNT W/TRIP LEVERS ON WIDE SIDE
F1 & F2 LOW-FLO / 1.6 GAL. FLUSH (MIN.)

WATER SIZING CALCULATION

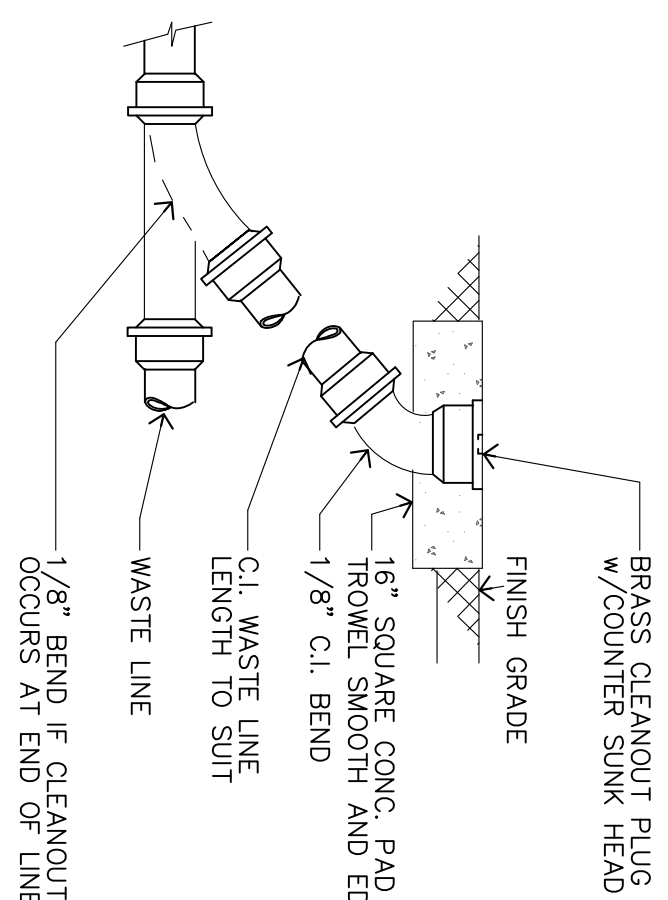
FIXTURE UNITS	697	=	160	G.P.M.	
TOTAL DISTANCE FROM WATER METER TO FURTHEST FIXTURE		=	250	FT.	
TOTAL RISE FOR HEAD LOSS	33	FT. X 0.43	14.19	P.S.I.	
P.S.I. REQUIRED FOR FLUSH TANK WATER CLOSET (APPENDIX A)		=	8.00	P.S.I.	
P.S.I. FLOW LOSS THROUGH METER (APPENDIX A: CHART A-1) (2-1 1/2")		=	15.00	P.S.I.	
P.S.I. REQUIRED FOR BACKFLOW PREVENTION DEVICE		=	12.00	P.S.I.	
AREA MINIMUM P.S.I.		=	70.00		
TOTAL LOSS IN P.S.I.		=	49.19		
TOTAL REMAINING P.S.I.		=	20.81		
P.S.I. AVAILABLE	20.81	-	250	TOTAL FEET	
		=	.083	X 100=	
		=	8.3		
USE LINE	8	ON CHART	A-5		
3"	PIPE WILL DELIVER	290	G.P.M. TO	1550	F.T. UNITS
2 1/2"	PIPE WILL DELIVER	150	G.P.M. TO	650	F.T. UNITS
2"	PIPE WILL DELIVER	100	G.P.M. TO	375	F.T. UNITS
1 1/2"	PIPE WILL DELIVER	46	G.P.M. TO	110	F.T. UNITS
1 1/4"	PIPE WILL DELIVER	35	G.P.M. TO	65	F.T. UNITS
1"	PIPE WILL DELIVER	17	G.P.M. TO	27	F.T. UNITS
3/4"	PIPE WILL DELIVER	8	G.P.M. TO	10	F.T. UNITS
1/2"	PIPE WILL DELIVER	4	G.P.M. TO	5	F.T. UNITS

GAS PIPE SIZING SCHEDULE

TOTAL DEMAND = 1552M B.T.U. = 1411 C.F.H.
USE 150FT. COLUMN (UPC 1994) TABLE 12-3
2 1/2" PIPE GOOD FOR 1492 C.F.H.
2" PIPE GOOD FOR 936 C.F.H.
1 1/2" PIPE GOOD FOR 486 C.F.H.
1 1/4" PIPE GOOD FOR 324 C.F.H.
1" PIPE GOOD FOR 158 C.F.H.
3/4" PIPE GOOD FOR 84 C.F.H.
1/2" PIPE GOOD FOR 40 C.F.H.
LOAD DEMAND BREAKDOWN
WATER HEATERS (2) @ 240M BTU = 480M BTU
CLOTHES DRYERS (4) @ 200M BTU = 800M BTU
SPA HEATER = 250M BTU
TOTAL 1520M BTU 1411 CFH
LINE SIZE
WATER HEATERS (2) @ 240M BTU = 1 1/4" EACH
CLOTHES DRYERS (4) @ 200M BTU = 1 1/4" EACH
SPA HEATER = 1 1/4"

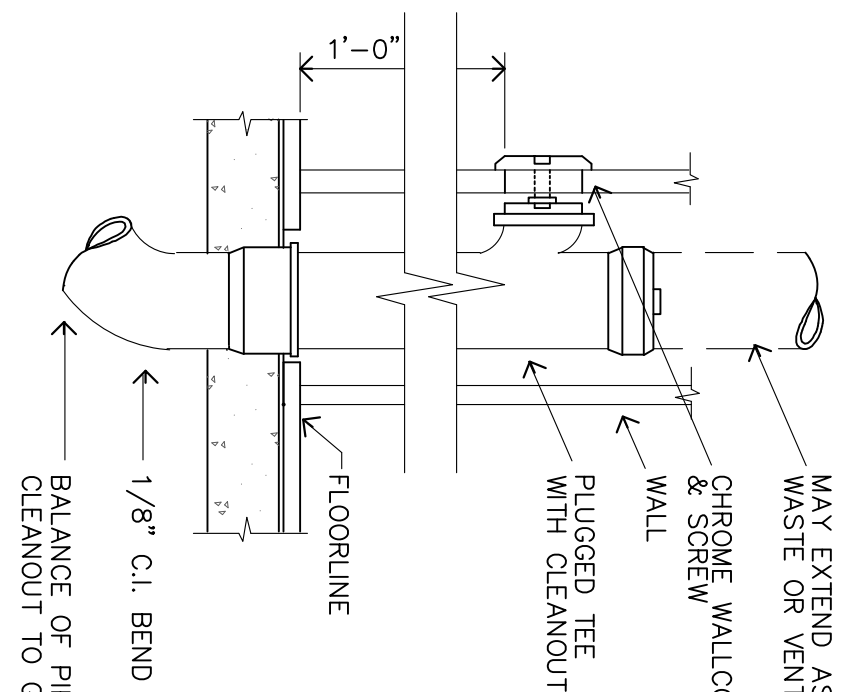
FAUCET & FITTINGS

FIXTURE	SYM.	FAUCET CONTROL OR FITTING DESCRIPTION
F3	B&K CHROME FAUCET #1U7Y-124-814 (4" CENTERS)/SINGLE LEVER w/INTERAL POP-WASTE (CHROME)	
F4	B&K CHROME FAUCET #1U7Y-124-114 (4" CENTERS) w/INTERAL POP-WASTE (CHROME)	
F5	MOEN #3150 VALVE (CHROME HANDLE) PRESSURE BALANCING VALVE w/ADJUSTABLE HOT LIMIT SAFETY STOP	
	- DRAIN: O.E.M. WATCO	
	- COMPLETE WITH TUB WASTE & OVERFLOW	
F6	MOEN #2361 VALVE (CHROME HANDLE) PRESSURE BALANCING VALVE w/ADJUSTABLE HOT LIMIT SAFETY STOP	
	- DRAIN: O.E.M. WATCO	
	- COMPLETE WITH TUB WASTE & OVERFLOW	
	- HAND HELD SHOWER w/24" WALL BAR & 60" CHROME PLATED FLEXIBLE HOSE	
F7	MOEN #3150 VALVE (CHROME HANDLE) PRESSURE BALANCING VALVE w/ADJUSTABLE HOT LIMIT SAFETY STOP	
	- DRAIN: O.E.M. WATCO	
	- COMPLETE WITH TUB WASTE & OVERFLOW	
	- HAND HELD SHOWER w/24" WALL BAR & 60" CHROME PLATED FLEXIBLE HOSE	
F8	MOEN #2361 VALVE (CHROME HANDLE) PRESSURE BALANCING VALVE w/ADJUSTABLE HOT LIMIT SAFETY STOP	
	- DRAIN: O.E.M. WATCO	
	- COMPLETE WITH TUB WASTE & OVERFLOW	
	- HAND HELD SHOWER w/24" WALL BAR & 60" CHROME PLATED FLEXIBLE HOSE	
F9	PROCE PRISTER GOOSENECK FAUCET #71-421 (METAL HANDLES) CHROME FINISH	
F10	PRICE PRISTER #34-1W FAUCET / CHROME FINISH	
F11	DUAL HANDLE FAUCET w/VACUUM BREAKER	



CLEANOUT TO GRADE

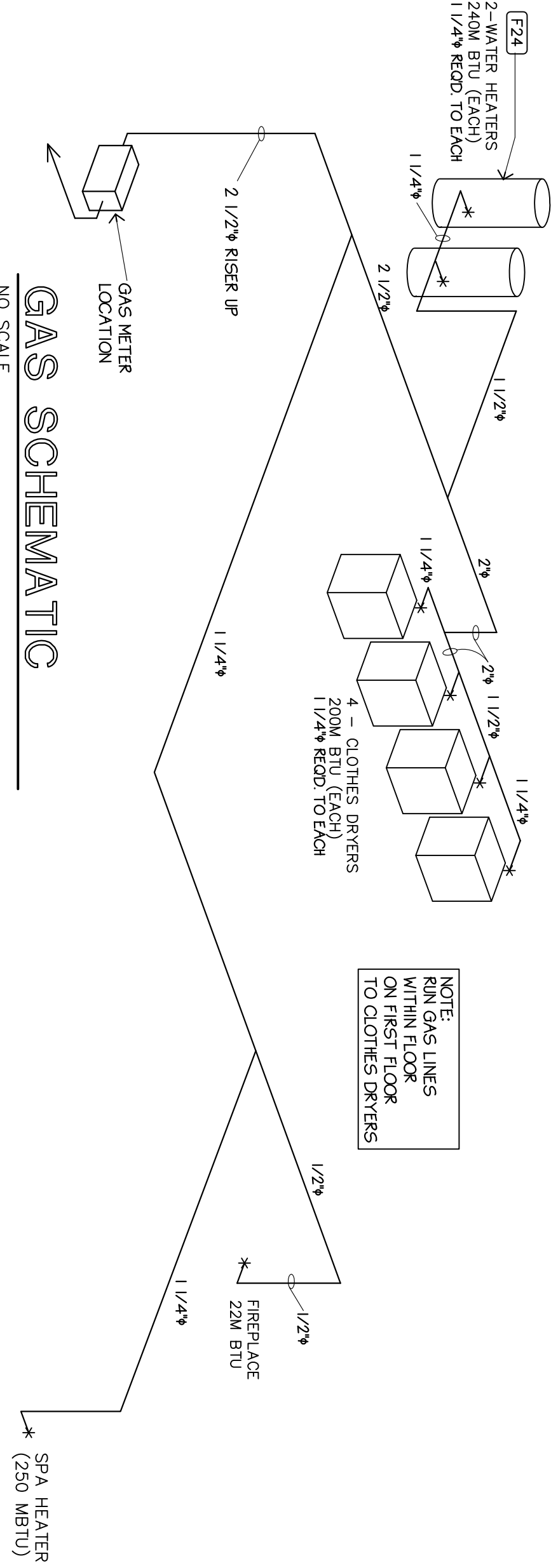
NOTES:
FASTEN EACH LEG TO FLOOR WITH EXPANSION BOLTS WITH EMBEDMENT INTO CONCRETE.
FILE SIZE TO WATER HEATER CONNECTION.
FOR EXACT LOCATIONS OF DROPS TO WATER HEATER, SEE PLUMBING FLOOR PLANS.



FLOOR CLEANOUT DETAIL

WCO

WALL CLEANOUT DETAIL



WATER HEATER & STORAGE TANK SCHEMATIC

