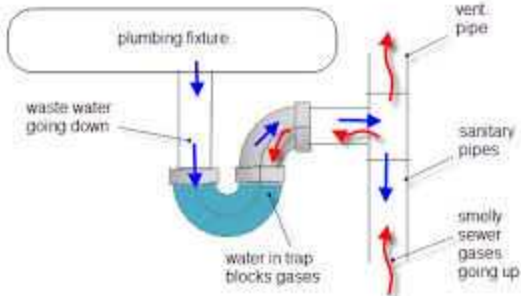
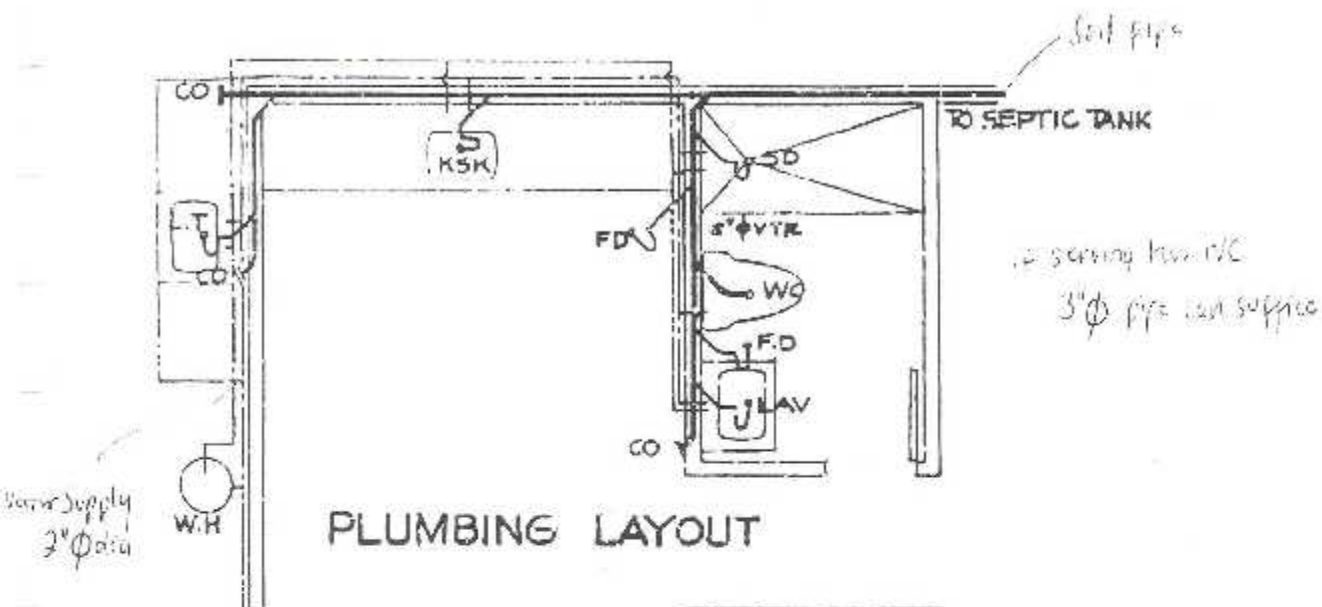




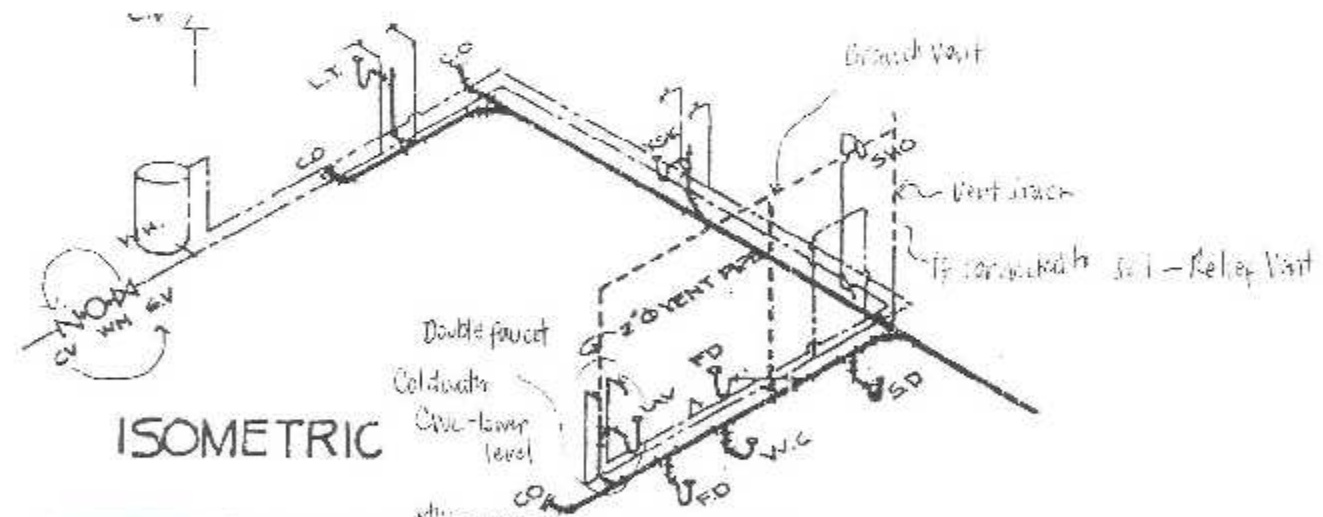
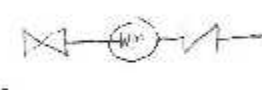
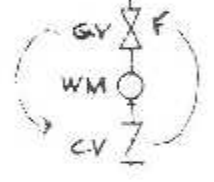
# FIRE PROTECTION SYMBOLS (NFPA 170) APPENDIX D-1

FILE NAME	SYMBOL	DESCRIPTION	FILE NAME	SYMBOL	DESCRIPTION	FILE NAME	SYMBOL	DESCRIPTION																																																																											
F001		SMOKE SYMBOL	F021		PUBLIC FIRE HYDRANT - TWO HOSE OUTLET	F038		CARBON DIOXIDE																																																																											
F002		1/2 HOUR SYMBOL	F022		PUBLIC FIRE HYDRANT - TWO HOSE OUTLET & PUMPER CONNECTION	F039		REDUCER																																																																											
F003		3/4 HOUR SYMBOL	F023		WALL HYDRANT - TWO HOSE OUTLET	F040		ALARM GONG																																																																											
F004		1 HOUR SYMBOL	F024		PRIVATE HOUSED HYDRANT - TWO HOSE OUTLET	F041		WATER MOTOR ALARM GONG																																																																											
FOR REFERENCE ONLY USE SYMBOLS F001-F004 TO CREATE THESE SYMBOLS			F025		FIRE DEPARTMENT - TWO HOSE OUTLET, FREE STANDING	FOR REFERENCE ONLY																																																																													
			F026		FIRE DEPARTMENT - TWO HOSE OUTLET																																																																														
			F027		FIRE DEPARTMENT - ONE HOSE OUTLET																																																																														
			F028		FIRE PUMP WITH DRIVES																																																																														
			F029		FREESTANDING TEST HEADER																																																																														
			F030		WALL - MOUNTED TEST HEADER																																																																														
			F031		SCREEN/STRAINER																																																																														
			F032		<b>CONTROL PANEL (ATTRIBUTED)</b> FDP FIRE ALARM CONTROL PANEL FSA FIRE SYSTEM ANNUCIATOR FTR FIRE ALARM TRANSPONDER OR TRANSMITTER ESR ELEVATOR STATUS/RECALL FAC FIRE ALARM COMMUNICATOR HCP HALON CONTROL PANEL HVA CONTROL PANEL FOR HEATING, VENTILATION, AIR-CONDITIONING, EXHAUST STAIRWELL PRESSURIZATION, OR SIMILAR EQUIPMENT.																																																																														
			F033		ILLUMINATED EXIT SIGN, SINGLE FACE																																																																														
			F034		ILLUMINATED EXIT SIGN, DOUBLE FACE																																																																														
			F035		EMERGENCY LIGHT, BATTERY POWERED																																																																														
			F036		COMBINED BATTERY-POWERED EMERGENCY LIGHT AND ILLUMINATED EXIT SIGN																																																																														
			F037		<b>MANUAL STATION</b> HL - HALON DC - DRY CHEMICAL FO - FOAM WC - WET CHEMICAL P - PULL STATION CA - CLEAN AGENT WM - WATER MIST DL - DELUGE SPRINKLER																																																																														
			F005		RISER				FOR REFERENCE ONLY																																																																										
			F006		VALVES (GENERAL)																																																																														
F007		VALVE IN PIT																																																																																	
F008		POST-INDICATOR VALVE																																																																																	
F009		KEY OPERATED VALVES																																																																																	
F010		OS & Y VALVE (OUTSIDE SCREW AND YOKE (RISING STEM))																																																																																	
F011		INDICATING BUTTERFLY VALVE																																																																																	
F012		NONINDICATING VALVE (NONRISING-STEM VALVE)																																																																																	
F013		CHECK VALVE																																																																																	
F014		BACKFLOW PREVENTER - DOUBLE CHECK TYPE																																																																																	
F015		BACKFLOW PREVENTER - REDUCED PRESSURE ZONE (RPZ) TYPE																																																																																	
F016		PRESSURE REGULATING VALVE																																																																																	
F017		PRESSURE RELIEF VALVE																																																																																	
F018		FLOAT VALVE																																																																																	
F019		METER																																																																																	
F020		PRIVATE HYDRANT, ONE HOSE OUTLET	FOR REFERENCE ONLY																																																																																
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**PLUMBING LAYOUT**













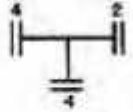











**ISOMETRIC**



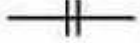

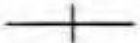







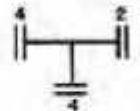

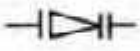







- WC WATER CLOSET
- FD FLOOR DRAIN
- LAV LAVATORY
- SD SHOWER DRAIN
- KSK KITCHEN SINK
- CO CLEAN OUT
- LT LAUNDRY TUB
- WH WATER HEATER
- WM WATER METER

- GV GATE VALVE
- CV CHECK VALVE
- VSTR VENT STACK THRU ROOF
- SHO SHOWER HEAD
- HOT WATER SUPPLY
- COLD WATER SUPPLY

Left side - Hot  
Right side - Cold

ITEM	SYMBOL	SAMPLE APPLICATION	ILLUSTRATION
PIPE	SINGLE LINE IN SHAPE OF PIPE, USUALLY WITH NOMINAL SIZE NOTED		
JOINT - FLANGED	DOUBLE LINE		
SCREWED	SINGLE LINE		
BELL & SPIGOT	CURVED LINE		
OUTLET TURNED UP	CIRCLE & DOT		
OUTLET TURNED DOWN	SEMICIRCLE		
REDUCING OR ENLARGING FITTING	NOMINAL SIZE		
REDUCER CONCENTRIC	TRIANGLE		
ECCENTRIC	TRIANGLE		
UNION SCREWED	LINE		
FLANGED	LINE		

**PIPE FITTING SYMBOLS**

ITEM	SYMBOL	SAMPLE APPLICATION	ILLUSTRATION
PIPE	SINGLE LINE IN SHAPE OF PIPE, USUALLY WITH NOMINAL SIZE NOTED		
JOINT - FLANGED	DOUBLE LINE		
SCREWED	SINGLE LINE		
BELL & SPIGOT	CURVED LINE		
OUTLET TURNED UP	CIRCLE & DOT UP		
OUTLET TURNED DOWN	SEMICIRCLE		
REDUCING OR ENLARGING FITTING	NOMINAL SIZE		
REDUCER CONCENTRIC	TRIANGLE		
ECCENTRIC	TRIANGLE		
UNION SCREWED	LINE		
FLANGED	LINE		

**PIPE FITTING SYMBOLS**