

**ABBREVIATIONS**

ACT	ACoustical TILE
AFF	ABove FINISH FLOOR
AP	ACCeSS PANEL
ARCH	ARCHITECT
BUILD	BUILDING
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CLG	CEILING
CLDI	CEMENT LINED DUCTILE IRON
CP	CHROME PLATED
CO	CONCRETE
CONC	CONCRETE
OW	COLD WATER
CONTR	CONTRACTOR
CONT	CONTINUATION
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DIA	DIAMETER
DWG	DRAWING
DN	DOWN
EC	ELECTRICAL CONTRACTOR
E/ELEV.	ELEVATION
EX	EXISTING
FEE	FINISH FLOOR ELEVATION
F#	FIXTURE NUMBER
FLR	FLOOR
FCO	FLOOR CLEANOUT
FV	FLUSH VALVE
FT	FOOT
GPF	GALLON PER FLUSH
GPM	GALLON PER MINUTE
GLV	GALVANIZED
GC	GENERAL CONTRACTOR
HC	HANDICAPPED
HW	HOT WATER
ID	INSIDE DIAMETER
IN	INCH
IR	INDIRECT WASTE
LFC	LIMIT OF PLUMBING CONTRACTOR
MECH	MECHANICAL
MSB	MOP SERVICE BASH-FITURE IDENTIFICATION
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
OED	OPEN END DRAIN
OD	OUTSIDE DIAMETER
PC	PLUMBING CONTRACTOR
PLG	PLUMBING
PSI	POUNDS PER SQUARE INCH
SA	SHOCK ABSORBER
SS	STAINLESS STEEL
SPEC	SPECIFICATION
ST. ST.	STAINLESS STEEL
TYP	TYPICAL
U	URINAL-FITURE IDENTIFICATION
V	VENT
VB	VACUUM BREAKER
VS	VENT STACK
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET-FITURE IDENTIFICATION

**GENERAL**

FD	FLOOR DRAIN
RD	ROOF DRAIN
TD	TRENCH DRAIN
CO	FLOOR CLEANOUT
FCO	FLOOR CLEANOUT
GCO	GRADE CLEANOUT
P-TRAP	P-TRAP
ELBOW UP OR RISE	ELBOW UP OR RISE
ELBOW DOWN OR DRIP	ELBOW DOWN OR DRIP
CAP OR END OF PIPE	CAP OR END OF PIPE
HOSE BIBB	HOSE BIBB
WH	WALL HYDRANT
WH	WALL HYDRANT
TEE LOOKING DOWN	TEE LOOKING DOWN
TEE LOOKING UP	TEE LOOKING UP
UNION	UNION
RBBP	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
WH/ASH	WATER HAMMER ARRESTOR/SHOCK ABSORBER
FLOW IN DIRECTION OF ARROW	FLOW IN DIRECTION OF ARROW
PIPE SLEEVE	PIPE SLEEVE
LIMIT OF WORK	LIMIT OF WORK

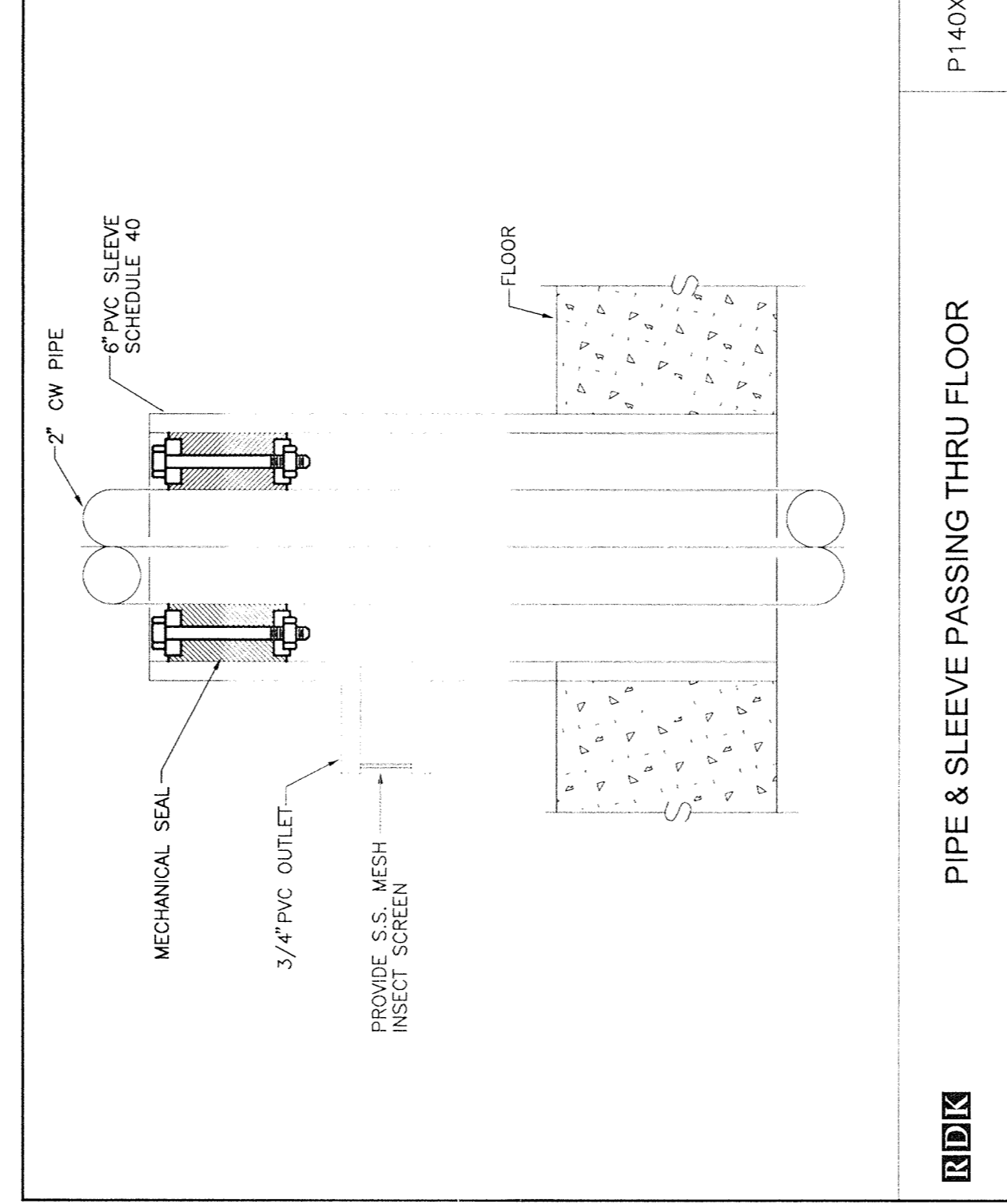
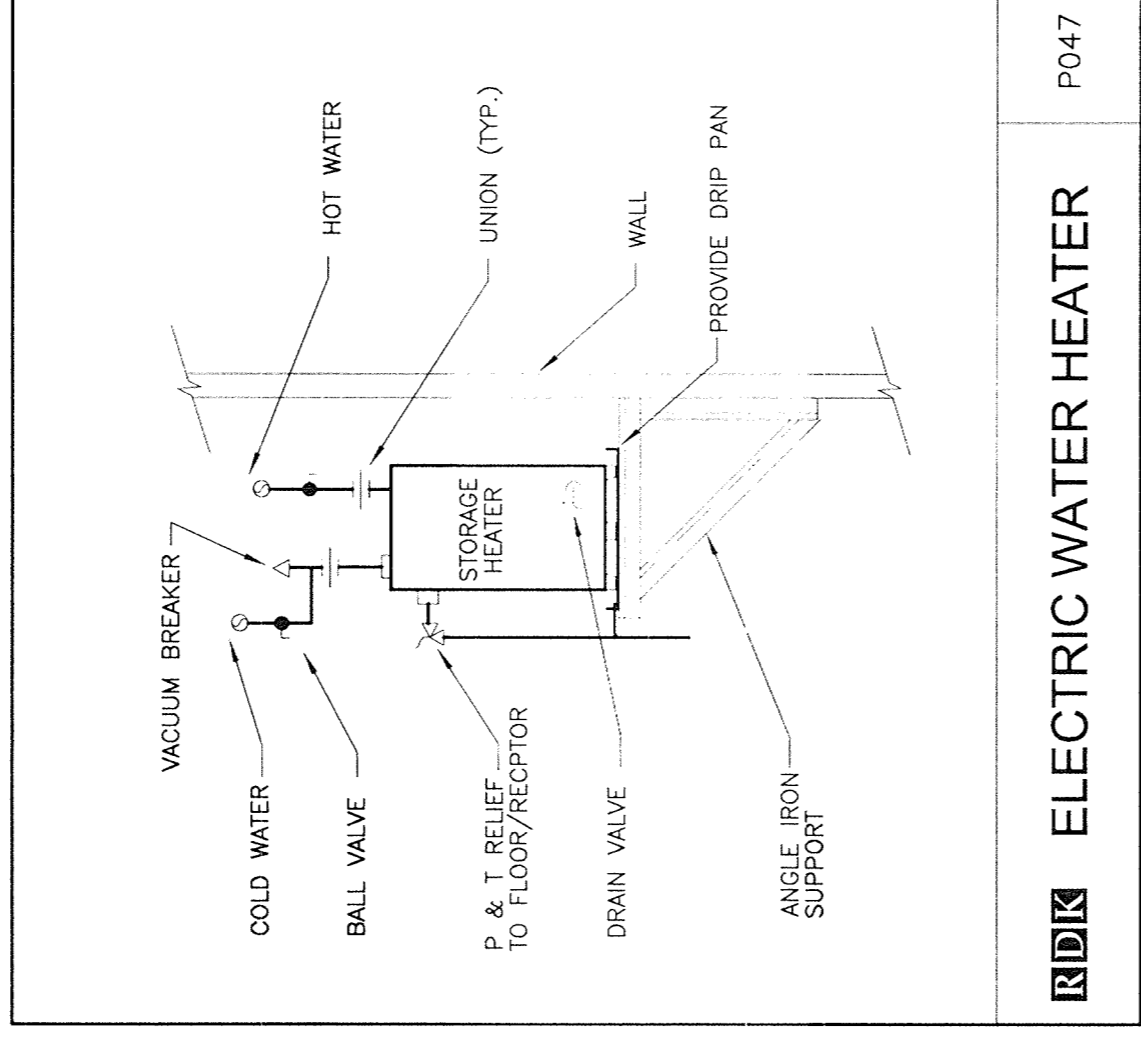
**VALVE LEGEND**

Ball Valve	Ball Valve
Plug Valve	Plug Valve
Vacuum Relief Valve	Vacuum Relief Valve
Airstat	Airstat
Thermometer	Thermometer
Pressure Gauge	Pressure Gauge
PG	Pressure Gauge

**PIPING LEGEND**

CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
S or W	SOIL OR WASTE ABOVE GROUND
S or W	SOIL OR WASTE BELOW SLAB
V	VENT ABOVE GROUND
V	VENT BELOW SLAB
RL	RAIN LEADER ABOVE GROUND
RL	RAIN LEADER BELOW SLAB
G(P)	PROPANE GAS PIPING

- GENERAL NOTES**
- PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE PLUMBING AND GAS CODE INCLUDING ALL LOCAL AMENDMENTS.
  - OBTAIN ALL PERMITS AND PAY ALL FEES ASSOCIATED WITH THIS WORK PRIOR TO COMMENCEMENT.
  - PIPING AND EQUIPMENT IS SHOWN DIAGMATICALLY. THE ACTUAL ROUTING OF PIPING AND EXACT LOCATION OF EQUIPMENT SHALL BE DETERMINED BY THE CONTRACTOR IN CONJUNCTION WITH THE OTHER TRADES (SUL, STRUCTURAL, ARCHITECTURAL, ELEC, MECHANICAL, HVAC, AND ELECTRICAL). THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH DETAILS OF CONSTRUCTION, FINISHES, AND INSTALL ALL NECESSARY PIPING, EQUIPMENT, SUPPORTS AND ANY EQUIPMENT NOT SHOWN ON DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS BUT NECESSARY TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.
  - PROVIDE ACCESSIBLE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLY PIPING TO INDIVIDUAL FIXTURES AND EQUIPMENT.
  - PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING PERIODIC SERVICE AND MAINTENANCE.
  - FURNISH ACCESS PANELS TO THE GENERAL CONTRACTOR FOR INSTALLATION UNDER THE RELATED TRADES.
  - PITCH ALL WATER LINES TO DRAIN.
  - INSTALL HORIZONTAL RUNS OF WATER PIPING AS HIGH AS POSSIBLE AND PROVIDE DRAIN-OFFS AT ALL LOW POINTS.
  - NOT WATER TARGETS SHALL HAVE NOT LESS THAN THREE ELBOW SWINGS.
  - PIPING SHALL BE CONCEALED IN ALL AREAS WITH THE EXCEPTION OF MECHANICAL ROOMS, AREAS WHERE NO CEILING EXISTS OR WHERE INSIDES OR UNDER FLOORS.
  - PROVIDE DIELECTRIC COUPLINGS BETWEEN DISSIMILAR MATERIALS.
  - INSTALL DANDY CLEANOUTS AT THE BASE OF ALL SANITARY AND RAINWATER STACKS.
  - AN AIR GAP OF AT LEAST TWICE THE EFFECTIVE DIAMETER OF THE DRAIN SERVED SHALL BE PROVIDED ON ALL EQUIPMENT DRAINS PIPED TO FLOOR DRAINS.
  - PROVIDE FIRE RESISTANCE RATING OF FLOORS, WALLS AND CEILINGS SHALL BE MAINTAINED WHEN PIPE PENETRATIONS ARE MADE.
  - REFER TO RISER DIAGRAMS AND DETAILS FOR PIPE AND EQUIPMENT SIZES NOT SHOWN ON THE PLANS.
  - ALL WORK SHOWN ON RISER DIAGRAMS BUT NOT ON PLANS OR VICE VERSA SHALL BE INCLUDED AS IF SHOWN ON BOTH.
  - SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.



**PLUMBING FIXTURE SCHEDULE**

SYMBOL	TYPE	CONNECTIONS			REMARKS
		CW	HW	WASTE	
P-1	WATER CLOSET	1/2"	-	4"	ADA ACCESSIBLE
P-2	LAVATORY	1/2"	1/2"	1 1/2"	ADA ACCESSIBLE

**ELECTRIC WATER HEATER SCHEDULE**

TAG NO.	TYPE	TANK STORAGE (GAL)	RECOVERY RATE (GPH) AT 100 RISE	ELECTRICAL DATA	REMARKS
				VOLTS   PHASE   INFLUX KW	
EW1-A	TANK	6	25	208   1   3	120" - RHEIM - EDSF6

**FLOOR/ROOF DRAIN SCHEDULE**

TAG No.	MANUFACTURER	MODEL NO.	OUTLET	STRAINER TOP	REMARKS
FD-A	J.R. SMITH	2230-C	4"	12"	INSTALL IN MECHANICAL ROOM. PROVIDE TRAP LINED AT EACH DRAIN FOR TRAP PROTECTION.
FD-B	J.R. SMITH	2233	SEE PLANS	15" DIA	INTERMEDIATE GARAGE DECK LEVELS
RD-A	J.R. SMITH	2253	SEE PLANS	15" DIA	GARAGE ROOF DECK
RD-B	J.R. SMITH	1320-C	4"	12"	CANOPIES