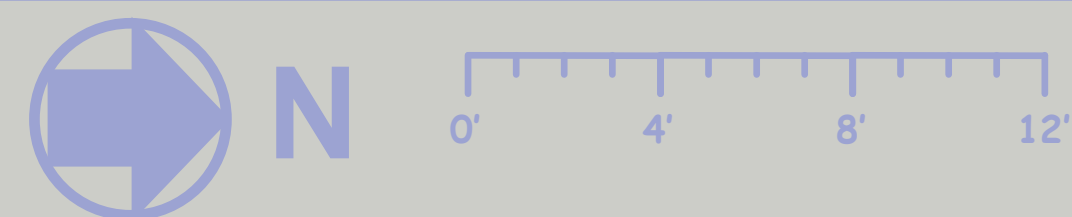


CHILLER ROOM PLAN NOTES

- 1 Combined function valve
- 2 Butterfly service valve with gear operator; lug style; bubble tight shut off
- 3 Suction diffuser
- 4 Reinforced house keeping pad doweled to the floor slab; minimize size as required for edge distance for fasteners used to secure equipment
- 5 Flex connector
- 6 Pressure gauge with snubber and ball type isolation valve; at manufacturers recommended test point; typical for inlet and outlet
- 7 Moneyhell standard temperature sensor in thermometer well, typical for inlet and outlet
- 8 Thermometer with thermometer well; mount at eye height, typical for inlet and outlet
- 9 Mechanical couplings for vibration isolation, typical for inlet and outlet
- 10 Mechanical couplings to facilitate head removal for tube cleaning, typical for both inlet and outlet
- 11 Pipe support with insulated pipe shield, typical for both inlet and outlet
- 12 Arrange piping to allow the existing chiller to be removed with out disassembly and a new chiller to be moved into place with out disassembly and with out having to drain down
- 13 12" CHWS and CHWR, 10" HWS and HWR, 6" BDCW, 6"BDWH, 6"DHWR out to building
- 14 5" HPS, 2" PD, 1-1/2" HPR down to tunnel
- 15 16" CWS and CWR, 2-1/2" DCW, down to tunnel
- 16 22" (3,640 cfm) supply down to tunnel
- 17 80" x 30" OA up through roof to intake penthouse
- 18 18" NC cross-over valve
- 19 Bypass deck plenum transition to 36" F plant ventilation supply air

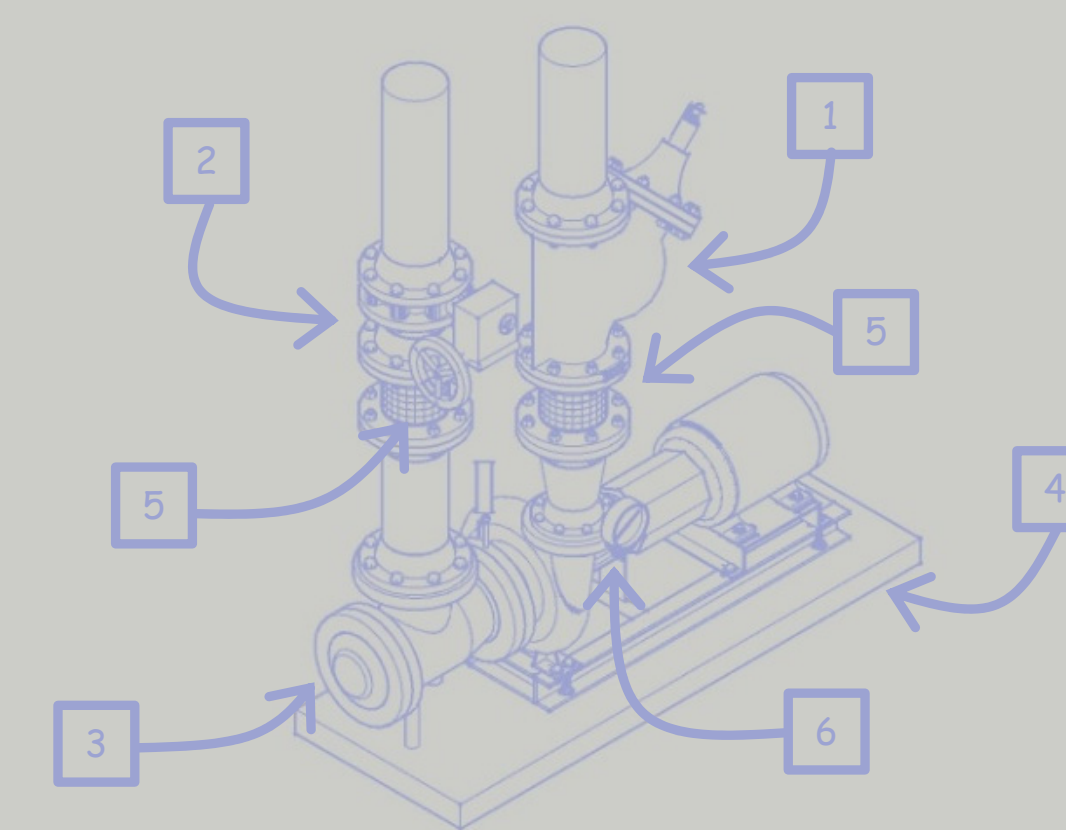
Chiller Room Plan

1/4" = 1'0"



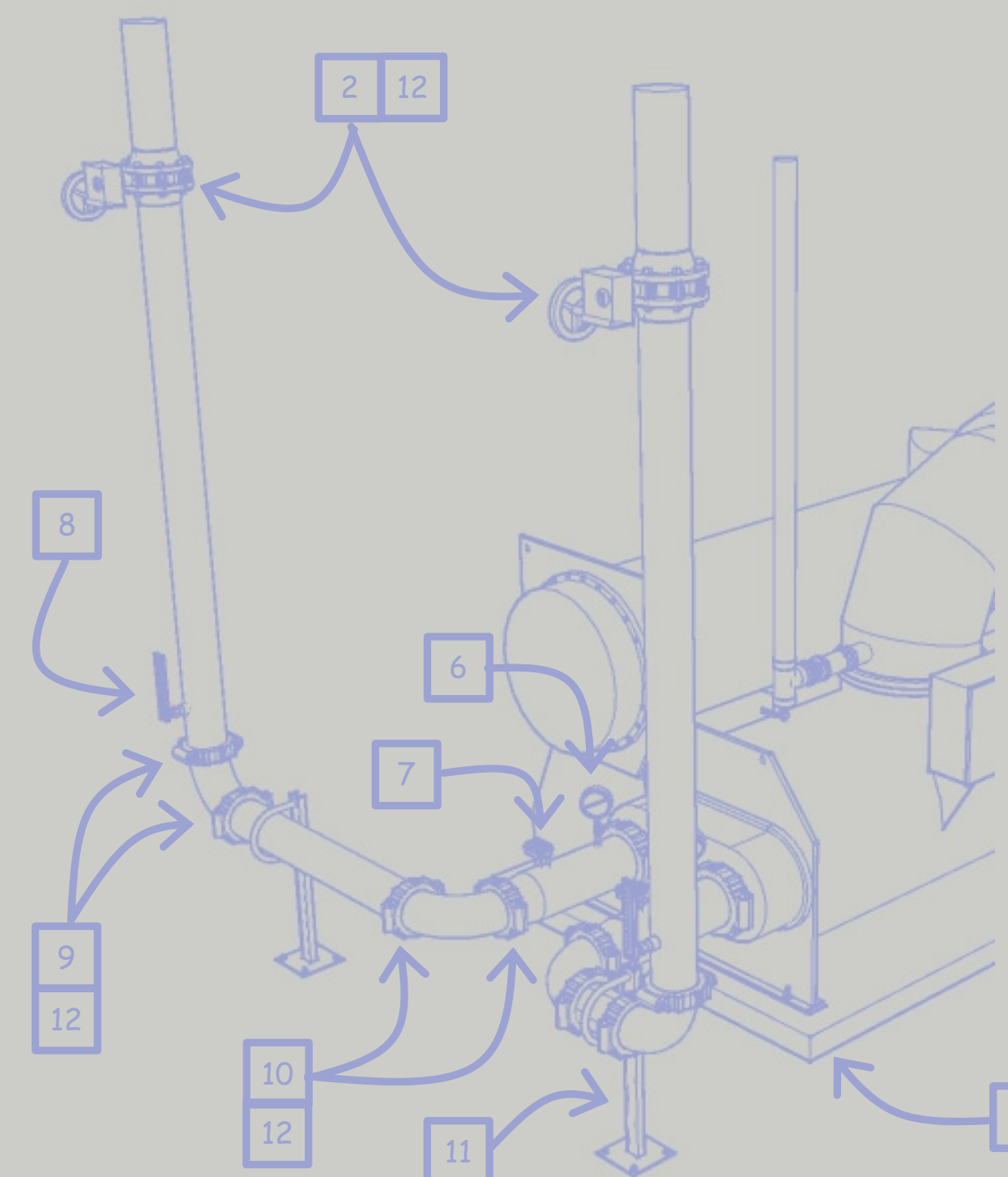
- 20 Cold deck plenum transition to 30" F electrical room cooling supply air
- 21 30" (8,160 cfm) plant ventilation supply air below, 30" (8,200 cfm) electrical room cooling supply air above
- 22 24" (4,080 cfm) plant ventilation supply air below, 30" F electrical room cooling supply air above
- 23 24" (4,080 cfm) plant ventilation supply air below piping to hot water convertor room
- 24 Transition to 42" F plant ventilation exhaust to EF-1; 3,730 cfm minimum flow, 18,200 cfm maximum flow.
- 25 8" CHWR down to pump and up to chiller
- 26 8" CHWS down to chiller
- 27 8" CHWS down and up to pumps from 12" headers

- 28 2 channel refrigerant monitor and input sensors (1 sensor per chiller)
- 29 Plant ventilation exhaust inlet (Typical); 932 cfm minimum; 4,550 cfm maximum
- 30 680 cfm nozzle style diffuser (typical of 6); adjust nozzle throw direction as needed
- 31 Economizer dampers (outdoor air and return and return air) just below roof level
- 32 Return air transfer duct with combination fire/smoke damper
- 33 Shot feeder and coupon rack, coordinate with Owner's water treatment vendor as required



Typical Pump Piping

No Scale



Typical Chiller CHW Piping

No Scale

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	8-9-2006 - As Built

Chiller Plant
 Plan,
 Details

M-04
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