



KEYED NOTES:

- 1 INSTALL BALANCING VALVE WITH MINIMUM OF 3 STRAIGHT PIPE DIAMETERS UPSTREAM AND 1 STRAIGHT PIPE DIAMETER DOWNSTREAM.
- 2 MAINTAIN 6" MINIMUM CLEARANCE ABOVE TEST PLUG TO ALLOW GAUGE TO BE INSERTED. DO NOT COVER PLUG WITH INSULATION.
- 3 INSTALL SWING JOINTS AT COIL CONNECTIONS.
- 4 CONNECT BRANCH LINES FROM COIL INTO TOP OR SIDE OF SUPPLY AND RETURN MAINS. CONNECTING INTO BOTTOM OF MAIN IS NOT ACCEPTABLE.
- 5 INSTALL MANUAL AIR VENTS IN SUPPLY AND RETURN COIL BRANCH PIPING AS FOLLOWS:
 A) IN PIPING HIGH POINT WHEN PIPING IS ABOVE MAIN.
 B) CLOSE TO COIL WHEN PIPING IS NOT ABOVE MAIN (SIDE CONNECTION).
- 6 INSTALL COIL SO AIR PASSES THROUGH FINS IN PROPER DIRECTION NOTED ON COIL.

HOT WATER COIL PIPING DETAIL
 (ON/OFF FLOW THROUGH COIL, FAIL TO FULL HEAT)
 SCALE: NONE

NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

- 1. SEE SHEET 9 FOR PNEUMATIC CONTROL DIAGRAM.
- 2. SEE SHEET 11 FOR DESIGN NOTES.
- 3. APPLICATION: OUTSIDE AIR PREHEAT COIL (MODULATING FACE & BYPASS).

DRAWING DEVELOPED FOR ML-3/ML-4 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE).

1	8-14-03	U		REVISED TO COMPLY WITH DRAFTING MANUAL. ADDED STRAINER & KEYED NOTE & REVISED CONTROL VALVE & DWG NO. WAS ST8121.	RP	AB	JM	GO	TO
NO	DATE	CLASS	REV	DESCRIPTION	OWN	DSGN	CHKD	SUB	APP
ENGINEERING STANDARDS PROGRAM									
ENGINEERING STANDARDS MANUAL								DRAWN	R.PEARSON
HOT WATER COIL PIPING DETAIL OF/OFF FLOW, FAN TO FULL HEAT								DESIGN	A.BRIDGE
BLDG X								CHECKED	G.GRENAL
SUBMITTED								DATE	6-28-99
DISCIPLINE POC: GURINDER GREWAL								APPROVED FOR RELEASE	TA-X
STANDARDS MANAGER: TOBIN ORUCH								SHEET	7
Los Alamos NATIONAL LABORATORY								7	11
CLASSIFICATION: U								REVIEWER: LARRY BAYS	DATE:
PROJECT ID								DRAWING NO	REV
CHAPTER 6								ST-D30GEN-2	1

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