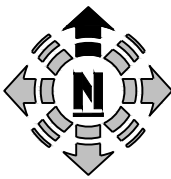
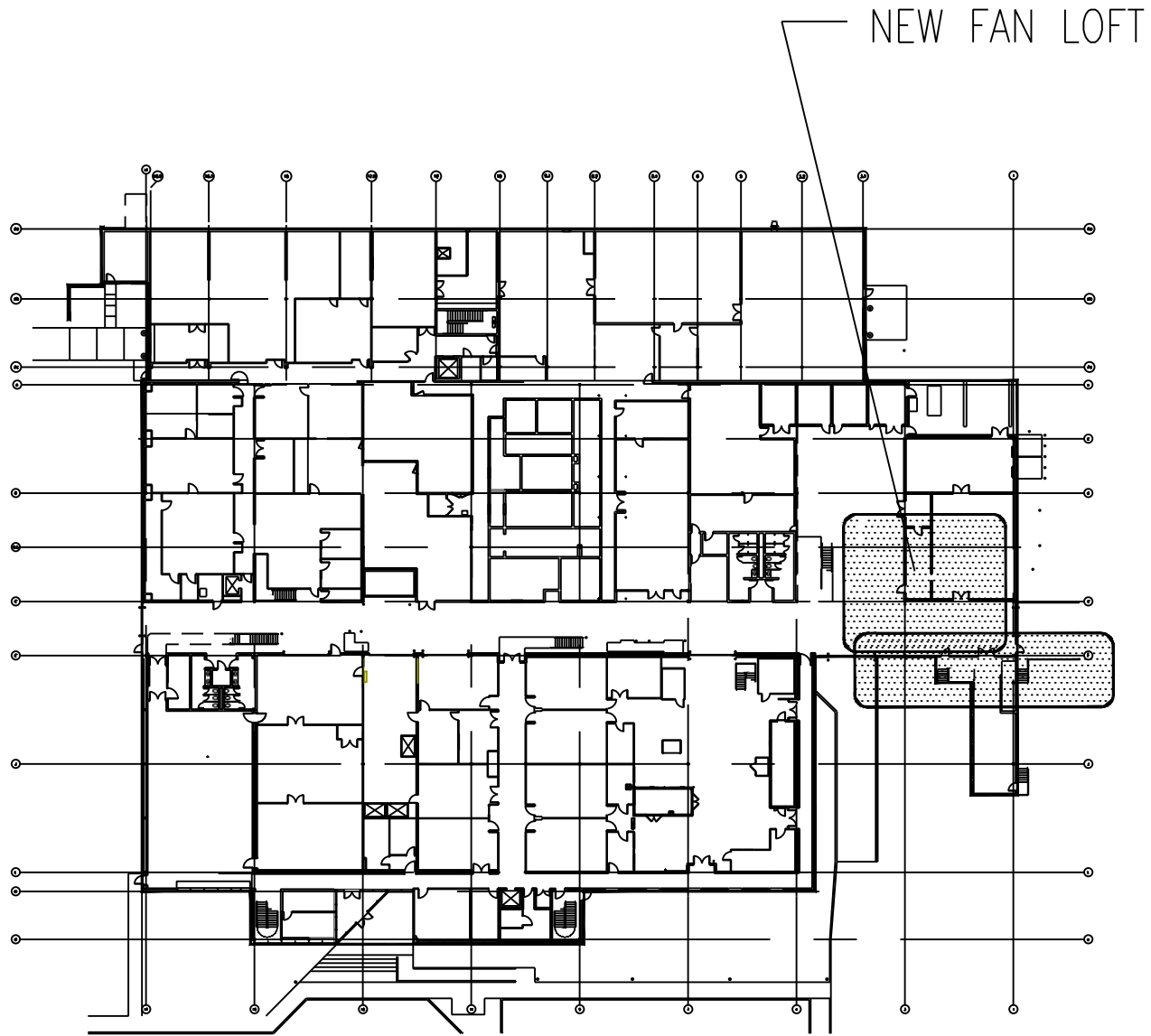


MEZZANINE HVAC PIPING KEYNOTES:

- 1 INDOOR MAKE UP AIR HANDLING UNIT AS INDICATED. UNIT SHALL BE INSTALLED ON SPRING VIBRATION ISOLATORS, STEEL BASE RAIL, AND A 4" CONCRETE PAD. PROVIDED WITH BASE RAILS AND MOUNTED ON A 4" CONCRETE PAD.
- 2 INDOOR EXHAUST AIR HANDLING UNIT AS INDICATED. UNIT SHALL BE PROVIDED WITH BASE RAILS AND MOUNTED ON A 4" CONCRETE PAD. REFER TO SCHEDULE FOR CAPACITIES.
- 3 GLYCOL AND EXPANSION TANKS MOUNTED ON A 4" CONCRETE PAD AS INDICATED. REFER TO PLUMBING PLANS FOR MORE INFORMATION ON ROUTING MAKE-UP WATER TO EXPANSION TANK.
- 4 HEAT RECOVERY COIL.
- 5 HEATING COIL.
- 6 COOLING COIL.
- 7 FILTER SECTION.
- 8 NOT USED.
- 9 SEE DRAWING M-05 AND M-08 FOR VALVES AND ACCESSORIES.
- 10 3" HWS & CWS UP THROUGH FLOOR FROM BELOW TO PUMPS. PUMPS SHALL BE MOUNTED VERTICALLY IN PARALLEL.
- 11 ROUTE 3" HWR & CWR UNDERNEATH LOFT FLOOR BACK TO 5" MAIN.
- 12 ROUTE 3/4" HWS/R TO UH-308 UNDERNEATH FAN LOFT FLOOR TO AVOID INTERFERENCE WITH FUTURE MAU. PENETRATE FLOOR IN AREA SHOW. COORDINATE EXACT LOCATION OF FLOOR PENETRATION WITH STRUCTURAL AND WITH THE GENERAL CONTRACTOR.

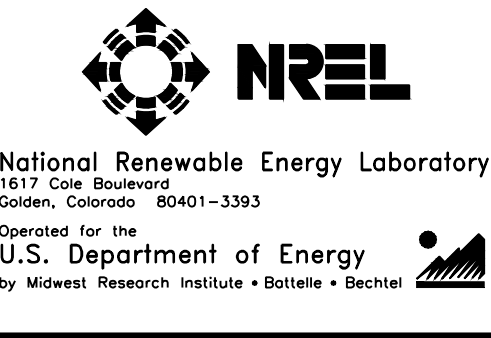


FAN LOFT AND PENTHOUSE HVAC PIPING PLAN
SCALE: 1/4" = 1'



FAN LOFT & PENTHOUSE KEY PLAN
SCALE: NTS

REVISIONS						REVISIONS						FILE INFORMATION				ENGINEERING REVIEW		
NO.	REVISIONS	DATE	BY	APP'D.	BAE	NO.	REVISIONS	DATE	BY	APP'D.	BAE	USER:	DATE:	TIME:	XREF'S:	DESIGNER	APPROVAL	DATE
0	50% CONSTRUCTION DOCUMENTS	8-25-11	-	-	-	-	-	-	-	-	-	USER:	1/20/12	-	-	DLD	-	-
1	90% CONSTRUCTION DOCUMENTS	9-30-11	-	-	-	-	-	-	-	-	-	DWG. FILE:	FTLB-135-M-13.dwg	-	-	DLD	-	-
2	100% CONSTRUCTION DOCUMENTS	11-3-11	-	-	-	-	-	-	-	-	-	DWG. FOLDER:	-	-	-	MTM	-	-
3	FOR CONSTRUCTION	1-20-12	-	-	-	-	-	-	-	-	-	ACAD VERSION:	AUTOCAD 2010	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	PLATFORM:	WINDOWS XP	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	BORDER:	ZBD22340-3.DWG	1:1	ARCH	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	PLOT INFO:	NREL.STB	-	-	-	-	-



FLTB THERMO-CHEM LABORATORY 101 CONVERSION MECH TASK ORDER 13 FAN LOFT & PENTHOUSE PIPING PLAN		
DRAWING NO. PREFIX FLTB-135-	DRAWING NO. M-04	REVISION NO. 3
NREL PROJECT NO. EX2010034	NREL WORK ORDER NO. 13	A/E PROJECT NO. 11261