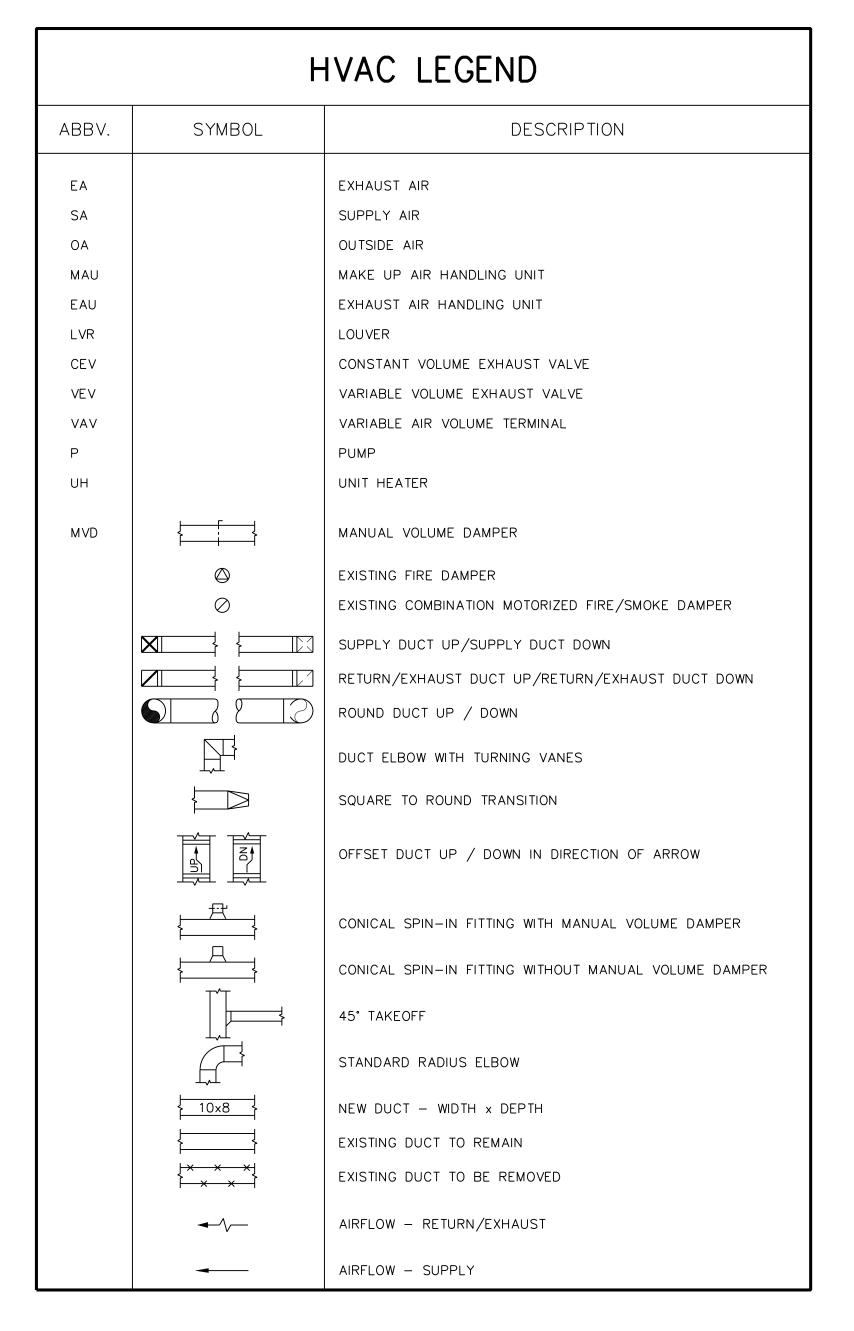
GENERAL LEGEND						
ABBV.	SYMBOL	DESCRIPTION				
G.C.		GENERAL CONTRACTOR				
M.C.		MECHANICAL CONTRACTOR				
E.C.		ELECTRICAL CONTRACTOR				
T.C.C.		TEMPERATURE CONTROL CONTRACTOR				
F.P.C.		FIRE PROTECTION CONTRACTOR				
A.F.F.		ABOVE FINISHED FLOOR				
N.C.		NORMALLY CLOSED				
N.O.		NORMALLY OPEN				
(N)		NEW				
SG		SUPPLY GRILLE				
EG		EXHAUST GRILLE				
	_x	— EXISTING (DEMOLITION OR REMOVED)				
		— CONTROL WIRING				
AD/AP		ACCESS DOOR/ACCESS PANEL				
	•	POINT OF CONNECTION - NEW TO EXISTING				
		DIRECTION OF FLOW IN PIPE				
		PITCH PIPE DOWN IN DIRECTION OF ARROW				
	E	PIPE CAP				
		— GAUGE				
	<u> </u>	— PRESSURE GAUGE WITH COCK				
	<u>`</u>	- FLOW METER FITTING				
		— PIPE UNION				
	<u> </u>	- STRAINER				
		- CONCENTRIC PIPE REDUCER				
	V	- ECCENTRIC PIPE REDUCER				
CV	<u> </u>	- CHECK VALVE				
BV	<del></del>	— BALANCING VALVE				
GV	<b>──</b> ₩	— GATE VALVE				
		- BALL VALVE				
	<b>_</b>	— GLOBE VALVE				
	——————————————————————————————————————	- BUTTERFLY VALVE				
		— 3-WAY MANUAL VALVE				
		- MANUAL AIR VENT				
	<u></u>	— AUTOMATIC AIR VENT				
	<b>%</b> —	PRESSURE RELIEF VALVE				
P/T	T	- PRESSURE/TEMPERATURE TEST PLUG				
TCV	——————————————————————————————————————	(2 OR 3-WAY) TEMPERATURE CONTROL VALVE				
	G+	PIPE ELBOW DOWN				
		PIPE ELBOW UP				
	+31	TEE OFF BOTTOM OF PIPE				
	<del></del>	TEE OFF TOP OF PIPE				
	Į.	— THERMOMETER				



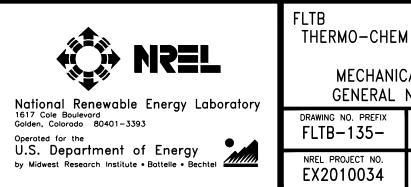
LABORATORY GAS LEGEND							
ABBV.	SYMBOL	DESCRIPTION					
VAC	VAC	VACUUM					
CO2	CO <sub>2</sub>	CARBON DIOXIDE					
N <sub>2</sub>	N <sub>2</sub>	NITROGEN					
DI	DI	DI WATER					
DIR	DIR	DI WATER RETURN LABORATORY AIR (LESS THAN 90 PSI)					
LA	LA						
CA	CA	COMPRESSED AIR (GREATER THAN 90 PSI)					
·							

PLUMBING LEGEND							
ABBV.	SYMBOL	DESCRIPTION					
ES		EMERGENCY SHOWER					
EEW		EMERGENCY EYE WASHER					
GT		GAS TURRET					
S		SINK					
TP/TG		TRAP PRIMER/TRAP GUARD					
RPBP		REDUCED PRESSURE BACKFLOW PREVENTER					
CW		DOMESTIC COLD WATER					
HW		DOMESTIC HOT WATER					
HWC		DOMESTIC HOT WATER CIRCULATING					
G	G	NATURAL GAS					
W		SANITARY WASTE BELOW FLOOR					
W		SANITARY WASTE ABOVE FLOOR					
AW	AW	ACID WASTE					
V		SANITARY VENT					
AV	AV	ACID VENT					
D	D ———	DRAIN PIPING					
WCO		WALL CLEANOUT					
	—————————————————————————————————————	HOSE END DRAIN VALVE					
		THERMOSTATIC MIXING VALVE					
VTR	_ار	VENT THRU ROOF					
FD	⊜	FLOOR DRAIN					
FS		FLOOR SINK					

			100% CD
DRAWING	MECHANICAL	DRAWING	SET
NUMBER	DRAWING DESCRIPTION	SCALE	1/20/201:
MP-01	MECHANICAL COVER SHEET, LEGEND, GENERAL NOTES AND DRAWING INDEX	NONE	Х
M-01	FIRST FLOOR HVAC/ PIPING PLAN	1/4"	Х
M-02	SECOND FLOOR HVAC/ PIPING PLAN	1/4"	Х
M-03	FAN LOFT & PENTHOUSE HVAC PLAN	1/4"	Х
M-04	FAN LOFT & PENTHOUSE PIPING PLAN	1/4"	Х
M-05	MECHANICAL DIAGRAMS	NONE	Х
M-06	HVAC SCHEDULES/ HVAC DIAGRAMS	NONE	Х
M-07	HVAC SCHEDULES	NONE	Х
M-08	HVAC AIR FLOW SCHEMATICS	1/4"	Х
M-09	HVAC PIPING/ SCHEMATIC POINT LIST	1/4"	Х
M-10	PENTHOUSE ELEVATION	1/2"	Х
M-11	CONTROL SEQUENCE	NONE	Х
P-01	FIRST FLOOR PLUMBING PLAN	1/4"	Х
P-02	SECOND FLOOR PLUMBING PLAN	1/4"	Х
P-03	FAN LOFT AND PENTHOUSE PLUMBING PLAN	1/4"	Х
P-04	PLUMBING DIAGRAMS & SCHEDULES	NONE	Х

NO.	REVISIONS	DATE	BY	APP'D.	BAE	NO. REVISIONS	DATE BY APP'D. BAE	FILE INFORMATION	ENGINEER	RING REVIEW
0	50% CONSTRUCTION DOCUMENTS	8-25-11						USER: DLD DATE: 1/20/12 TIME: . XREF'S: .	А	APPROVAL DATE
1	90% CONSTRUCTION DOCUMENTS	9-30-11						DWG. FILE: LAYOUT: .	DESIGNER	DLD
2	100% CONSTRUCTION DOCUMENTS	11-3-11						DWG. FOLDER:	ENGINEER	DLD
3	FOR CONSTRUCTION	1-20-12						ACAD VERSION: AUTOCAD 2010	CHECKED BY	МТМ
•								PLATFORM: WINDOWS XP	A/E APPROVED BY	
						· :		BORDER: ZBD2234D-3.DWG PLOT SCALE: 1:1 UNITS: ARCH	NREL APPROVED BY	
								PLOT INFO.: NREL.STB	BLDG. AREA ENG.	





LTB		MECH			
THERMO-CHEM	I LABORATORY 10	1 CONVERSION			
	TASK ORDER 13				
MECHANIC	AL COVER SHEET,	, LEGEND,			
GENERAL NOTES AND DRAWING INDEX					
RAWING NO. PREFIX	DRAWING NO.	REVISION NO.			
FLTB-135-	MP-01	3			

NREL WORK ORDER NO.

a/e project no. 11261