



ABBREVIATIONS & SYMBOLS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
BI	BACKWARD INCLINED
BIA	BACKWARD INCLINED AIRFOIL
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CONN	CONNECTION
CUH	CABINET UNIT HEATER
CUF	CENTRIFUGAL UTILITY FAN
CW	COLD WATER
DB	DUCT BLOWER
DN	DOWN
E/A	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EXIST	EXISTING
F&T	FLOAT AND THERMOSTATIC
FC	FORWARD CURVED
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HW	HOT WATER
HWC	HOT WATER RECIRC.
LBS.#	POUNDS
MC	MECHANICAL CONTRACTOR
MOD	MOTOR OPERATED DAMPER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OBD	OPPOSED BLADE DAMPER
O/A	OUTSIDE AIR
PF-C	PROPELLER FAN - COMMERCIAL
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
R/A	RETURN AIR
S/A	SUPPLY AIR
SIC	SQUARE INLINE CENTRIFUGAL FAN
SS	STAINLESS STEEL
UC	UNDERCUT DOOR
UH	UNIT HEATER
V	VENT
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VTR	VENT THROUGH ROOF
W	SANITARY WASTE PIPING
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR
⊕	POINT OF DEACTIVATION OR NEW CONNECTION TO EXISTING

FTR-1	UNIT TYPE
1.0	FLOW (GPM)
8'-0"	ACTIVE LENGTH

FITTINGS &

	EXISTING WORK TO REMAIN
	NEW WORK ON PROPOSED DWGS. EXISTING WORK TO BE REMOVED ON DEMOLITION DWGS
	EXPANSION LOOP
	PIPE TURNING DOWN (PIPE DROP)
	PIPE TURNING UP (PIPE RISE)
	TEE UP (OFF TOP)
	TEE DOWN (OFF BOTTOM)
	PIPE DROP IN RUN
	PIPE DROP AND TURN
	TEE OF TOP
	TEE OFF BOTTOM
	CROSS AND RISER
	PLAIN ELBOW
	PLAIN TEE (OFF SIDE)
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	SCREWED UNION
	FLANGED UNION
	PIPE CAP
	WALL SLEEVE
	FLEX CONNECTION
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	PITCH PIPE DOWN
	CLEANOUT END OF LINE
	AUTOMATIC AIR VENT W/PETCOCK
	PUMP

VALVES

	AUTOMATIC FLOW CONTROL
	BALL OR BUTTERFLY (SIZE DEPENDENT)
	CHECK
	BALANCING
	GATE
	GLOBE VALVE
	PLUG
	PRESSURE REGULATING
	RELIEF
	TRIPLE DUTY
	VALVE IN DROP BELOW
	VALVE IN VERTICAL
	2-WAY ELECTRIC MOTOR
	3-WAY ELECTRIC MOTOR
	WYE STRAINER W/VALVE
	WATER HAMMER ARRESTOR
	BACK FLOW PREVENTER
	MANUAL VENT
	HOSE BIBB (SIDE VIEW)
	HOSE BIBB (PLAN VIEW)
	PRESSURE REDUCING VALVE

PIPING

	HWS	HOT WATER SUPPLY (HEATING)
	HWR	HOT WATER RETURN (HEATING)
	FOS	FUEL OIL SUPPLY PIPING
	FOV	FUEL OIL VENT
	FP	FIRE SPRINKLER PIPING
		DOMESTIC COLD WATER
		DOMESTIC HOT WATER
	TW	TEMPERED WATER
		DOMESTIC HOT WATER RECIRC.
		SANITARY WASTE
		SANITARY WASTE BELOW FLOOR
		SANITARY WASTE VENT
		DIRECTION OF FLOW
	PW	PUMPED WASTE

HVAC

	SUPPLY AIR DUCT (RISE UP)
	SUPPLY AIR DUCT (DROP DOWN)
	RETURN AIR DUCT (RISE UP)
	RETURN AIR DUCT (DROP DOWN)
	EXHAUST DUCT (RISE UP)
	EXHAUST DUCT (DROP DOWN)
	DUCT SIZE (FIRST DIMENSION SIDE SHOWN)
	RISE IN DIRECTION OF FLOW
	DROP IN DIRECTION OF FLOW
	ELBOW WITH TURNING VANES
	DOUBLE WALL DUCT
	END CAP
	45° TAKE-OFF (RECTANGULAR)
	TRANSITION (RECTANGLE TO ROUND)
	TRANSITION (ROUND TO RECTANGLE)
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	VOLUME DAMPER
	FIRE DAMPER
	MOTOR OPERATED DAMPER
	FLEXIBLE CONNECTION
	SUPPLY ARROW
	RETURN ARROW
	SUPPLY AIR DIFFUSER/REGISTER OR GRILLE
	RETURN/EXHAUST AIR REGISTER OR GRILLE
	THERMOSTAT
	400/200 HIGH SPEED/LOW SPEED CFM

C:\Drawings\10215000\North_Bound\HP-Onb.DWG Monday, January 15, 2001 10:29:00 am pl

No.	DATE	REVISION

DUNCAN • WISNIEWSKI ARCHITECTURE
255 SOUTH CHAMPLAIN STREET, BURLINGTON, VERMONT 05401 (802) 864-6663

Hallam Associates
60 Farrell Street, Suite 300
St. Burgundy, Vermont 05403
(802) 858-6681

WILLISTON INFORMATION CENTER
189 NORTHBOUND
STATE PROJECT # IM-BLDG (4)

LEGEND AND ABBREVIATIONS

DRAWN: J.LAMOTHE	PROJ.No: 10215
CHECKED: M.COOK	DATE: JAN 15, 2001

HP-Onb