

### MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(Symbol)	EXISTING	(Symbol)	FLOWMETER (ANALOG)	(Symbol)	STOP/BACK (NON-RETURN) VALVE
(Symbol)	DEMOLITION/NEW WORK	(Symbol)	FLOWMETER (MAGNETIC)	(Symbol)	STRAINER
(Symbol)	FUTURE	(Symbol)	FLOWMETER (MECHANICAL USAGE)	(Symbol)	STRAINER IN BLOWDOWN VALVE
(Symbol)	DISCONNECT FROM EXISTING	(Symbol)	FLOWMETER (ORIFICE)	(Symbol)	THREE-WAY VALVE
(Symbol)	CONNECT TO EXISTING	(Symbol)	FLOWMETER (VENTURI)	(Symbol)	UNION
(Symbol)	ANGLE VALVE	(Symbol)	FLOWMETER (ORTHO)	(Symbol)	VACUUM BREAKER
(Symbol)	AUTOMATIC VALVE	(Symbol)	EXHAUST HEAD	(Symbol)	VENT CAP
(Symbol)	BALL VALVE	(Symbol)	GLOBE VALVE	(Symbol)	BLANKED OFF
(Symbol)	BALL VALVE (LOCKABLE)	(Symbol)	PLUG VALVE	(Symbol)	CONCENTRIC REDUCER
(Symbol)	BALL VALVE WITH MEMORY STOP	(Symbol)	PRESSURE REDUCING/REGULATING VALVE	(Symbol)	ECCENTRIC REDUCER (F08)
(Symbol)	BALANCING VALVE	(Symbol)	PRESSURE SAFETY VALVE WITH DRIP PAN ELBOW	(Symbol)	FLANGES
(Symbol)	BASKET STRAINER	(Symbol)	GATE VALVE	(Symbol)	HOSE END CONNECTION
(Symbol)	BUTTERFLY VALVE	(Symbol)	GATE VALVE IN RISE	(Symbol)	HOSE BIBB
(Symbol)	BALL BUTTERFLY VALVE IN RISE	(Symbol)	MINIMUM FLOW ORIFICE	(Symbol)	POSTAS
(Symbol)	BLOWDOWN VALVE	(Symbol)	MULTIPORT RELIEF VALVE	(Symbol)	QUICK CONNECTION
(Symbol)	BRINE EXTRACTOR	(Symbol)	NEEDLE VALVE	(Symbol)	THERMOCOUPLE
(Symbol)	CHECK VALVE	(Symbol)	OSBY GATE VALVE WITH TAMPER SWITCH	(Symbol)	BACKFLOW PREVENTOR
(Symbol)	CONTROL VALVE	(Symbol)	SOLENOID VALVE	(Symbol)	EXISTING STEAM TRAP ASSEMBLY
(Symbol)	DOUBLE CHECK VALVE	(Symbol)	SOLENOID VALVE IN RISE	(Symbol)	STEAM TRAP ASSEMBLY AND TRAP NUMBER
(Symbol)	DUPLEX STRAINER	(Symbol)	SOOT BLOWER VALVE	(Symbol)	PIPE CAP
(Symbol)	FILTER	(Symbol)		(Symbol)	PIPE DROP

### MECHANICAL ABBREVIATIONS

SC	4 PSIG CONDENSATE	D	DEPTH	GR	NATURAL GAS (CONTOR)	NRA	NOT APPLICABLE	V	VENT
SE	4 PSIG STEAM	DA	DEAERATOR	GA	GALLIE	HAT	HOT	V	VENTS
15C	15 PSIG CONDENSATE	DA	DEALKALIZED WATER	GA	GALLON	NC	NATURALLY CLOSED	VAC	VACUUM
15S	15 PSIG STEAM	DC	DRY SUELS	GALV	GALVANIZED	NG	NATURAL GAS	VBS	VACUUM BREAKER
100C	100 PSIG CONDENSATE	DC	DIRECT CURRENT	GD	GRAVITY DAMPER	N	NUMBER	VEL	VELOCITY
100S	100 PSIG STEAM	DCS	DATA COLLECTION SYSTEM	GPH	GALLONS PER HOUR	N2	NITROGEN MONOXIDE/NITROGEN DIOXIDE	VFD	VARIABLE FREQUENCY DRIVE
AAV	AUTOMATIC AIR VENT	DENOM	DENOMINATION	GPM	GALLONS PER MINUTE	NF	NON-POTABLE COLD WATER	VTR	VENT THROUGH ROOF
ABV	ABOVE	DI	DIGITAL INPUT	GSD	GROSS			W	WIDTH
AC	ALTERNATING CURRENT	DI	DEIONIZED WATER	GWR	GALON WATER RETURN			W	WITH
ADP	AIR HANDLING UNIT	DIA	DIAMETER	SWS	SYMBOL	GA	OUTSIDE AIR	W	WET BULB
AF	ABOVE FINISHED FLOOR	DIFF	DIFFERENTIAL			GC	ON CENTER	W	WITH
AI	ANALOG INPUT	DISCH	DISCHARGE			OD	OUTSIDE DIAMETER	W	WET BULB
AIR	NON-COMPRESSED AIR	DISTR	DISTRIBUTION	H	HEIGHT	OPR	OPERATING	WC	WATER COLUMN
APPROX	APPROXIMATELY	DN	DENORMALIZED WATER	H	HOSE BIBB			WG	WATER GAUGE
AR	AUTOMATIC RESET	DN	DOWN	H	HOT END DRAIN	PA	PLANT AIR	WJ	WELD JET
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	DO	FUEL OIL	H	MAN-OFF-AUTOMATIC	PC	PUMPED CONDENSATE		
ASBY	ASSEMBLY	DC	DIRECT CURRENT	H	HOT END FLOWER	PD	PRESSURE DROP	AT	AT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	DOM	DOMESTIC	H	HIGH PRESSURE CONDENSATE RETURN	PCG	PUMPED CONDENSATE PUMP SUCTION	&	AND
ATCM	ATOMIC	DOP	FUEL OIL PUMP	H	HIGH PRESSURE STEAM	PMCP	PLANT MASTER CONTROL PANEL	CL	CENTER LINE
ALK	ALUMINUM	DOPG	FUEL OIL PUMP SECTION	HR	HOUR	PO	PNEUMATIC OUTPUT	CDX	CARBON DIOXIDE
AMU	AIR HANDLING UNIT	DOR	FUEL OIL RETURN	H	HOT ROLLED STEEL	PPH	POUNDS PER HOUR	F	DEGREES FAHRENHEIT
BAU	BUILDING AUTOMATION SYSTEM	DOS	FUEL OIL SUPPLY	HWS	HEATING WATER RETURN	PPM	PARTS PER MILLION	D	DIAMETER
BBD	BOTTOM BLOWDOWN	DR	DRAIN	HWS	HEATING WATER SUPPLY	PSIG	PRESSURE	PO	WATER
BC	BURNER PLANE CONTROL	DRL	DRILLED WATER	HTHR	HIGH TEMPERATURE HEATING WATER RETURN	PSI	POUNDS PER SQUARE INCH	N	NITROGEN
BCP	BURNER CONTROL PANEL	DWD	DRAWING	HTHW	HIGH TEMPERATURE HEATING WATER SUPPLY	PSIG	POUNDS PER SQUARE INCH GAUGE	NG	NITROGEN GAUGE
BCW	BURNING COOLING WATER	EAT	ENTERING AIR TEMPERATURE	HW	HOT WATER (POTABLE DOMESTIC)			OD	OXYGEN
BD	BLOWDOWN	EAT	ENTERING AIR TEMPERATURE	HWR	HOT WATER RECIRCULATION (POTABLE DOMESTIC)			%	PERCENT
BFEC	BOILER FEEDWATER FROM ECONOMIZER	ECON	ECONOMIZER	HXC	HEAT EXCHANGER				
BFPS	BOILER FEEDWATER PUMP SUCTION	ED	EXHAUST DRAIN	HZ	HERTZ				
BFW	BOILER FEEDWATER (PUMPED)	EDGF	EXHAUST DRAIN (OVERFLOW)						
BP	BRAKE/BOILER HORSEPOWER	EF	EXHAUST FAN						
BUDG	BUILDING	EFF	EFFICIENCY	IA	INSTRUMENT AIR				
BUL	BULL	EL	ELEVATION	ID	INDUCED DRAFT				
BUL	BULL	EL	ELEVATION	ID	INDUCED DRAFT				
BMS	BURNER MANAGEMENT SYSTEM	EL	ELEVATION	LD	LOAD	RMG	REFRIGERANT HOT GAS		
BD	BLOWOFF	EMR	EMERGENCY	IN	INCH	RL	REFRIGERANT LIQUID		
BP	BACKFLOW PREVENTOR	ENTR	ENTRANCE	INCH	INCHES OF WATER COLUMN	RM	ROOM		
BTU/H	BRITISH THERMAL UNITS PER HOUR	ENTR	ENTRANCE	INCH	INCHES OF WATER COLUMN	RP	REVOLUTIONS PER MINUTE		
BTU/H	BRITISH THERMAL UNITS PER HOUR	ENTR	ENTRANCE	INCH	INCHES OF WATER COLUMN	RR	REMOVE AND REINSTALL EXISTING		
BTU/H	BRITISH THERMAL UNITS PER HOUR	ENTR	ENTRANCE	INCH	INCHES OF WATER COLUMN	RS	REFRIGERANT SUCTION		
		ETC	ETC			RL	REMOVE EXISTING		
						SA	SUPPLY AIR		
						SAN	SANITARY		
						SCPH	SCHEMATIC		
						SD	SCHEDULE		
						SD	STORM DRAIN		
						SENB	SEMI-BUILD		
						SF	SAFETY FACTOR		
						SNL	SOCKET		
						SG FT	SOLENOID		
						S.S.	STAINLESS STEEL		
						STM	STEAM		
						SW	SOFT WATER		
						TEMP	TEMPERATURE		
						THK	THICK		
						TYL	THREADED		
						TSG	TOP OF STEEL		
						TSP	TOTAL STATIC PRESSURE		
						TW	TREATED WATER		
						TYP	TYPICAL		
						UH	UNIT HEATER		

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FINAL DESIGN  
APPROVED FOR CONSTRUCTION

Revisions: Date	CONSULTANTS: <b>AEI</b> Affiliated Engineers Affiliated Engineers SE, Inc. Troye Town Center 12821 SW 1st Road Ste 205 Gainesville, Florida 32609 Tel: 352.376.5590 Fax: 352.375.3479 LH-0142	ARCHITECT/ENGINEERS: <b>AKEA</b> INC 1903 NW 58th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-8124 Fax: (352) 503-8437 CDA: PL #26693 AKEA Project No. 083-14	Drawing Title <b>MECHANICAL LEGEND AND ABBREVIATIONS</b>	Project Title <b>REPLACE BOILERS - FCA D. ENERGY AT THE MALCOM RANDALL VAMC</b>	Project Number <b>573-14-600</b> Building Number	Office of Construction and Facilities Management
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