

PLUMBING SYMBOLS AND ABBREVIATIONS

NOTE: SYMBOLS AND ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

PIPE FITTINGS		PIPE VALVES AND SPECIALTIES	
	FLANGE		ELBOW DOWN
	UNION		ELBOW UP
	ANCHOR		TEE DOWN
	PIPE GUIDE		TEE UP
	PIPE SLEEVE		PIPE CAP
	ECCENTRIC REDUCER		SOIL, STORM, OR WASTE PLUG
	CONCENTRIC REDUCER		
PIPE VALVES AND SPECIALTIES			
	GAS SHUT OFF VALVE		PIPE FLEXIBLE CONNECTION
	GATE VALVE		EXPANSION JOINT
	DIAPHRAGM VALVE		FLOW SENSING DEVICE
	BALL VALVE		PRESSURE OR VACUUM SWITCH
	BUTTERFLY VALVE		HEAT TRACE TERMINATION POINT
	BALANCING VALVE		HEAT TRACE POWER CONNECTION POINT
	CHECK VALVE		THERMOMETER
	PRESSURE REDUCING VALVE		PRESSURE GAUGE (WITH VALVE)
	SOLENOID VALVE		WALL HYDRANT
	PRESSURE RELIEF VALVE		HOSE BIBB
	THERMOSTATIC MIXING VALVE		SLIDE-OXYGEN OR VACUUM BOTTLE
	TEMPERATURE BLENDING VALVE		GAS OUTLET
	BACKWATER VALVE		GAS TERMINAL
	REDUCED PRESSURE BACKFLOW PREVENTER		FILTER
	DOUBLE CHECK BACKFLOW PREVENTER		DIRECTION OF PITCH
	PIPELINE STRAINER		WATER METER
	WATER HAMMER ARRESTOR		DEMOLITION OF PIPING, DEVICE, ETC.
	ZONE VALVE BOX LABEL IS SHOWN ON FRONT OF VALVE BOX TO INDICATE ORIENTATION		
	AREA OR MASTER ALARM PANEL LABEL IS SHOWN ON FRONT OF PANEL TO INDICATE ORIENTATION		

DRAINS AND CLEANOUTS			
	FLOOR DRAIN/FLOOR SINK		FIXTURE WASTE TRAP
	ROOF DRAIN		CLEANOUT
	HUB DRAIN		FLOOR CLEANOUT

FIXTURE INSTALLATION		
FIXTURE	BARRIER FREE DESIGN	NON-BARRIER FREE
WATER CLOSET	FLOOR TO RIM 17"	FLOOR TO RIM 17"
URINAL	FLOOR TO RIM 17" MIN. ONE PER ROOM	FLOOR TO RIM 17"
LAVATORY	FLOOR TO RIM 34" MAX. FLOOR TO UNDER APRON 27"	FLOOR TO RIM 34"
DRINKING FOUNTAIN	FLOOR TO SPOUT 36" MAX. FLOOR TO UNDER APRON 27"	FLOOR TO RIM 40"
SHOWER VALVE	FLOOR TO VALVE 42"	FLOOR TO VALVE 48"
SHOWER HEAD	FLOOR TO HEAD 60" ON HOSE ADJ. TO HEAD 78" VARIES	

PIPING SYSTEM LABELS		WASTE OR STORM	
	WATER		WASTE OR SOIL
	DCW - DOMESTIC COLD WATER		SAN - WASTE OR SOIL
	DHW - DOMESTIC HOT WATER		SD - SUBSOIL DRAIN
	DHR - DOMESTIC HOT WATER RETURN		S - STORM
	CS - COLD SOFT WATER		OD - OVERFLOW DRAIN
	HT - HEAT TRACE HOT WATER		FM - FORCE MAIN
	NP - NON-POTABLE WATER		CWV - CLEARWATER WASTE
	DI - DEIONIZED WATER		IW - INDIRECT WASTE
	RO - REVERSE OSMOSIS WATER		CW - GREASE WASTE
	PW - PURE WATER		CRW - CORROSION RESISTANT WASTE
	PCW - PROCESS COLD WATER		UNDERFLOOR FOR WASTE OR SOIL, SUBSOIL, STORM & FORCE MAIN
	PHW - PROCESS HOT WATER		
	PHR - PROCESS HOT WATER RETURN		
	LCW - LAB COLD WATER		
	LHW - LAB HOT WATER		
	LHR - LAB HOT WATER RETURN		
	TF - TRAP FILLER LINE		
	TW - TEMPERED WATER		
GASES		VENT	
	AR - ARGON		V - VENT
	CA - PROCESS COMPRESSED AIR		CWV - CLEARWATER VENT
	CO2 - CARBON DIOXIDE		CRV - CORROSION RESISTANT VENT
	H2 - HYDROGEN		LV - LAB VENT
	LA - LABORATORY COMPRESSED AIR		
	LN - LIQUID NITROGEN		
	LVAC - LABORATORY VACUUM		
	MA - MEDICAL COMPRESSED AIR		
	MV - MEDICAL VACUUM		
	NG - NATURAL GAS		
	N2 - NITROGEN		
	N2O - NITROUS OXIDE		
	O2 - OXYGEN		
	WAGD - WASTE ANESTHETIC GAS DISPOSAL		
	WGE - WASTE GAS EVACUATION		
CIVIL UTILITIES SYSTEMS		REFERENCE SYMBOLS	
	W - WATER LINE		GENERAL REFERENCE DESIGNATES SHEET NUMBER
	SAN - SANITARY SEWER		EQUIPMENT NAME AND NUMBER
	STW - STORM SEWER		SHEET KEYNOTE NUMBER
	FM - FORCE MAIN		REVISION NUMBER
	F - FIRE MAIN		CONSTRUCTION BULLETIN NUMBER
	S - SHUTOFF VALVE		ELEVATION SYMBOL
	P - POST INDICATOR VALVE		NEW CONNECTION TO EXISTING
	M - MANHOLE		
	C - CATCH BASIN OR INLET		
	I - INSULATION		

ABBREVIATIONS			
A	AREA	MAP	MASTER ALARM PANEL
AAP	AREA ALARM PANEL	MAX	MAXIMUM
ACC	ACCESS	MB	MOP BASIN
ACFM	ACTUAL CUBIC FEET PER MINUTE	MBH	ONE THOUSAND BTUH
ADB	ACID DILUTION BASIN	MEZZ	MEZZANINE
ADJ	ADJUSTABLE	MFR	MANUFACTURER
AFF	ABOVE FINISHED FLOOR	MH	MANHOLE
ALT	ALTERNATE	MIN	MINIMUM / MINUTE
AMPS	AMPERES	MISC	MISCELLANEOUS
AP	ACCESS PANEL	MTD	MOUNTING
APPROX	APPROXIMATE	MTG	MEETING
ARCH	ARCHITECTURAL	NC	NON-MATERIAL CLOSED
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	NIC	NON-INSULATED CONTRACT
ASSY	ASSEMBLY	NIP	NON-INSULATED PIPE
BHP	BRAKE HORSEPOWER	NMA	NON-MATERIAL
BLDG	BUILDING	NSH	NET POSITIVE SUCTION HEAD
BOP	BOTTOM OF PIPE ELEVATION	OT	OWNER FURNISHED CONTRACTOR INSTALLED
BOT	BOTTOM	OTC	OWNER FURNISHED CONTRACTOR INSTALLED
BT	BATHTUB	OTD	OWNER FURNISHED OWNER INSTALLED
BTU	BRITISH THERMAL UNIT	OTG	OWNER FURNISHED CONTRACTOR INSTALLED
BTUH	BRITISH THERMAL UNITS PER HOUR	OTI	OWNER FURNISHED CONTRACTOR INSTALLED
BTWN	BETWEEN	OTL	OWNER FURNISHED CONTRACTOR INSTALLED
CA	COMPRESSED AIR	OSD	OPEN SITE DRAIN
CFM	CUBIC FEET PER MINUTE	P	PUMP
CFM	CUBIC FEET PER MINUTE	PH	PHASE
CI	CONCRETE	PV	POST INDICATOR VALVE
CD	CONCRETE MANHOLE UNIT	PLBG	PLUMBING
CO2	CARBON DIOXIDE	PRESS	PRESSURE
CONN	CONNECTION / CONNECT	PRV	PRESSURE REDUCING VALVE
CONTR	CONTRACTOR	PSF	POUNDS PER SQUARE FOOT
CORR	CORROSION RESISTANT	PSI	POUNDS PER SQUARE INCH
CS	COLD SOFT WATER	PSIG	POUNDS PER SQUARE INCH GAUGE
CT	CATCHER	PW	PURE WATER
CT	CATCHER	R	RADIUS
CT	CATCHER	RD	REFRIGERATED AIR DRYER
CT	CATCHER	RD	ROOF DRAIN
CT	CATCHER	REC	RECESSED
CT	CATCHER	RECPT	RECEPTACLE
CT	CATCHER	REF	REFERENCE
CT	CATCHER	REQD	REQUIRED
CT	CATCHER	RI	ROUGH IN
CT	CATCHER	RPM	REVOLUTIONS PER MINUTE
CT	CATCHER	RV	RELIEF VALVE
CT	CATCHER	S	STORM
CT	CATCHER	SAN	SANITARY
CT	CATCHER	SCH	SCHEDULE
CT	CATCHER	SCFM	STANDARD CUBIC FEET PER MINUTE
CT	CATCHER	SD	SUBSOIL DRAIN
CT	CATCHER	SF	SQUARE FEET
CT	CATCHER	SH	SHOWER
CT	CATCHER	SHIT	SHEET
CT	CATCHER	SPEC	SPECIFICATION
CT	CATCHER	SQ	SQUARE
CT	CATCHER	SR	SERVICE RECEPTOR
CT	CATCHER	SS	STAINLESS STEEL
CT	CATCHER	STD	STANDARD
CT	CATCHER	STM	STORM
CT	CATCHER	STRU	STRUCTURAL / STRUCTURE
CT	CATCHER	SUCT	SUCTION
CT	CATCHER	TD	TRENCH DRAIN
CT	CATCHER	TDH	TOTAL DYNAMIC HEAD
CT	CATCHER	TEMP	TEMPERATURE
CT	CATCHER	TMV	THERMOSTATIC MIXING VALVE
CT	CATCHER	TOB	TOP OF BEAM
CT	CATCHER	TOC	TOP OF CURB
CT	CATCHER	TOJ	TOP OF JOIST
CT	CATCHER	TOS	TOP OF SLAB / TOP OF STEEL
CT	CATCHER	TF	TRAP FILLER
CT	CATCHER	TP	TRAP PRIMER
CT	CATCHER	TYP	TYPICAL
CT	CATCHER	UR	URINAL
CT	CATCHER	V	VENT / VACUUM / VOLTS
CT	CATCHER	VAC	VACUUM
CT	CATCHER	VAC	VACUUM
CT	CATCHER	VEL	VELOCITY
CT	CATCHER	VFD	VARIABLE FREQUENCY DRIVE
CT	CATCHER	VOL	VOLUME
CT	CATCHER	VTR	VENT THRU ROOF
CT	CATCHER	W	WASTE / WATER
CT	CATCHER	WA	WATER HAMMER ARRESTOR
CT	CATCHER	W	WITH
CT	CATCHER	WO	WITHOUT
CT	CATCHER	WAGD	WASTE ANESTHETIC GAS DISPOSAL
CT	CATCHER	WC	WATER CLOSET
CT	CATCHER	WCO	WALL CLEANOUT
CT	CATCHER	WGE	WASTE GAS EXHAUST
CT	CATCHER	WH	WALL HYDRANT
CT	CATCHER	WSFU	WATER SUPPLY FIXTURE UNIT
CT	CATCHER	X	EXISTING
CT	CATCHER	YCO	YARD CLEANOUT
CT	CATCHER	ZVB	ZONE VALVE BOX

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STAMP

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title

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Approved: _____

Phase

CONSTRUCTION DOCUMENTS

Project Title

RENOVATE PHARMACY CLEAN ROOM (USP 797)

Location

510 E. Stoner Ave. Shreveport, LA 71101

Project Number

667-17-108

Building Number

1

Drawing Number

P001

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