

**PLUMBING ABBREVIATIONS**

A/E	ARCHITECT/ENGINEER	IWR	INDUSTRIAL WATER RETURN	WL	WATER LINE
AD	AREA DRAIN/ACCESS DOOR	IWS	INDUSTRIAL WATER SUPPLY	WM	WATER METER
AFB	ABOVE FINISH FLOOR	KW	KILOWATT	WPD	WATER PRESSURE DROP
AFG	ABOVE FINISH GRADE	KWH	KILOWATT-HOUR	WS	WASTE STACK
AG	AIR GAP			WSFU	WATER SUPPLY FIXTURE UNITS
AP	ACCESS PANEL	LIS	LITER PER SECOND	YCO	YARD CLEANOUT
AS	AUTOMATIC SPRINKLER	LA	LABORATORY AIR	YH	YARD HYDRANT
ASD	ADJUSTABLE SPEED DRIVES	LAV	LAVATORY		
ASD	AUTOMATIC SPRINKLER DRAIN	LBS/HR	POUNDS PER HOUR		
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS	LCW	LABORATORY COLD WATER		
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	LHW	LABORATORY HOT WATER		
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	LNG	LIQUID NATURAL GAS		
ASR	AUTOMATIC SPRINKLER RISER	LOX	LIQUID OXYGEN		
AV	ACID VENT	LV	LABORATORY VACUUM		
AW	ACID WASTE	LW	LOW WATER		
BFP	REDUCED PRESSURE BACKFLOW PREVENTER	M	METER		
BHP	BREAK HORSEPOWER	MA	MEDICAL AIR		
BSF	BLACK STEEL PIPE	MAV	MANUAL AIR VENT		
BT	BATHTUB	MBH	1000 BTUH		
BTU	BRITISH THERMAL UNIT	MED	MEDICAL		
BTUH	BRITISH THERMAL UNIT PER HOUR	MER	MECHANICAL EQUIPMENT ROOM		
C	CELSIUS	MH	MANHOLE		
CA	COMPRESSED AIR	MOU	MEMORANDUM OF UNDERSTANDING		
CGA	COMPRESSED GAS ASSOCIATION	MSB	MOP SERVICE BASIN		
CFM	CUBIC FEET PER MINUTE	MV	MEDICAL VACUUM		
CI	CAST IRON	N <sub>2</sub>	NITROGEN		
CO	CLEANOUT	N <sub>2</sub> O	NITROUS OXIDE		
CU	COPPER	NC	NORMALLY CLOSED		
CS	CLINICAL SINK	NG	NATURAL GAS		
CV	CONTROL VALVE	NIC	NOT IN CONTRACT		
DCW	DOMESTIC COLD WATER	NO	NORMALLY OPEN		
DFU	DRAINAGE FIXTURE UNITS	NOM	NOMINAL		
DHW	DOMESTIC HOT WATER	NPW	NON POTABLE WATER		
DHWR	DOMESTIC HOT WATER RETURN	NTS	NOT TO SCALE		
DHWS	DOMESTIC HOT WATER SUPPLY	O <sub>2</sub>	OXYGEN		
DI	DEIONIZED WATER	OC	ON CENTER		
DN	DOWN	OD	OUTSIDE DIAMETER		
DOE	DEPARTMENT OF ENERGY	OFD	OVERFLOW DRAIN		
DS	DOWNSPOUT	OR	OPERATING ROOM		
DW	DISHWASHER	OVFL	OVERFLOW		
DWG	DRAWING	PA	PASCAL		
DWH	DOMESTIC WATER HEATER	PD	PRESSURE DROP OR DIFFERENCE		
DWR	DRINKING WATER RETURN	PDI	PLUMBING AND DRAINAGE INSTITUTE		
DWS	DRINKING WATER SUPPLY	PG	PRESSURE GAGE		
DWV	DRAIN WASTE VENT	PP	PLUMBING PUMP		
EL	ELEVATION	PPM	PARTS PER MILLION		
EMCS	ENERGY MONITORING AND CONTROL SYSTEM	PRS	PRESSURE REDUCING STATION		
EPA	ENVIRONMENTAL PROTECTION AGENCY	PRV	PRESSURE REDUCING VALVE		
EPACT	ENERGY POLICY ACT	PSI	POUNDS PER SQUARE INCH		
ESC	ESCUTCHEON	PSIA	POUNDS PER SQUARE INCH ATMOSPHERE		
ESH	EMERGENCY SHOWER	PSIG	POUNDS PER SQUARE INCH GAGE		
ET	EXPANSION TANK	PTRV	PRESSURE TEMPERATURE RELIEF VALVE		
EW	ELECTRIC WATER HEATER	PW	POTABLE WATER		
EWS	EYE WASH STATION	RD	ROOF DRAIN		
EWS/SH	EYE WASH/DRENCH SHOWER	RDL	ROOF DRAIN LEADER		
EX	EXISTING	RL	ROOF LEADER		
F	FAHRENHEIT	RP	RECIRCULATION PUMP		
FCO	FLOOR CLEANOUT	RO	REVERSE OSMOSIS WATER		
FCW	FILTERED COLD WATER	RWL	RAIN WATER LEADER		
FD	FLOOR DRAIN	SAN	SANITARY SEWER		
FDC	FIRE DEPARTMENT (HOSE) CONNECTION	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION		
FM	FLOW METER	SCFM	STANDARD CUBIC FOOT/MINUTE		
FOP	FUEL OIL PUMP	SCW	SOFTENED COLD WATER		
FOR	FUEL OIL RETURN	SDMH	STORM DRAIN MANHOLE		
FOS	FUEL OIL SUPPLY	SMH	SANITARY MANHOLE		
FOV	FUEL OIL VENT	SP	SUMP PUMP		
FS	FLOOR SINK	SPR	SPRINKLER LINE		
FS	FLOOR SINK	SQFT/SF	SQUARE FEET		
FS	FLOW SWITCH	SS	STAINLESS STEEL		
FU	FIXTURE UNITS	ST	STORAGE TANK		
GAL	GALLON	SW	STORM WATER		
GCO	GRADE CLEANOUTS	TCV	TEMPERATURE CONTROL VALVE		
GPD	GALLONS PER DAY	TD	TEMPERATURE DIFFERENCE		
GPH	GALLONS PER HOUR	TD	TRENCH DRAIN		
GPM	GALLONS PER MINUTE	TDH	TOTAL DYNAMIC HEAD TEMP TEMPERATURE		
GPR	GAS PRESSURE REGULATOR	TMV	THERMOSTATIC MIXING VALVE		
GRS	GAS REGULATOR STATION	TP	TRAP PRIMER		
GT	GREASE TRAP	TSTAT	THERMOSTAT		
GVTR	GAS VENT THROUGH ROOF	TWR	TEMPERED WATER RETURN		
GWH	GAS FIRED WATER HEATER	TWS	TEMPERED WATER SUPPLY		
H&CW	HOT AND COLD WATER	TYP	TYPICAL		
HB	HOSE BIBB	UEF	UNIFORM ENERGY FACTOR		
HD	HUB DRAIN	V	VENT		
HEX	HEAT EXCHANGER	VAC	VACUUM		
HP	HORSEPOWER	VB	VACUUM BREAKER		
HS	HAND SINK	VCO	VACUUM CLEANER OUTLET		
HST	HOT WATER STORAGE TANK (DOMESTIC)	VP	VACUUM PUMP		
HWB	HOT WATER BOILER	VS	VENT STACK		
HWCP	HOT WATER CIRCULATING PUMP	VSD	VARIABLE SPEED DRIVE		
HWP	HOT WATER PUMP	VTR	VENT THROUGH ROOF		
HYD	HYDRANT	W	WASTE		
ID	INSIDE DIAMETER	WC	WATER CLOSET		
IE	INVERT ELEVATION	WCO	WALL CLEANOUT		
ICW	INDUSTRIAL COLD WATER	WG	WATER GAGE		
IHW	INDUSTRIAL HOT WATER	WH	WALL HYDRANT		
INV	INVERT	WH	WATER HEATER		
IPC	INTERNATIONAL PLUMBING CODE	WHA	WATER HAMMER ARRESTER		
IRW	IRRIGATION WATER				
IW	INDIRECT WASTE				
IWH	INSTANTANEOUS WATER HEATER				

**PLUMBING PIPING SYMBOLS**

---	DOMESTIC COLD WATER, COLD WATER
---	DOMESTIC HOT WATER, HOT WATER
---	DOMESTIC HOT WATER RETURN
--- MA --- MA --- MA ---	MEDICAL AIR
--- MV --- MV --- MV ---	MEDICAL VACUUM
--- LA --- LA --- LA ---	LABORATORY AIR
--- LV --- LV --- LV ---	LABORATORY VACUUM
--- OA --- OA --- OA ---	ORAL EVACUATION
--- IA --- IA --- IA ---	INDUSTRIAL AIR
--- D --- D --- D ---	DRAIN
---	VENT (SANITARY)
--- SS --- SS --- SS ---	SOIL, WASTE, OR SANITARY SEWER
--- SAN --- SAN --- SAN ---	SANITARY SEWER, BELOW GRADE
--- SD --- SD --- SD ---	STORM WATER
--- SD --- SD --- SD ---	STORM WATER, BELOW GRADE
--- SCW --- SCW --- SCW ---	SOFTEN COLD WATER
--- FCW --- FCW --- FCW ---	FILTERED COLD WATER
--- DWS --- DWS --- DWS ---	DRINKING WATER SUPPLY
--- DWR --- DWR --- DWR ---	DRINKING WATER RETURN
--- TWS --- TWS --- TWS ---	TEMPERED WATER SUPPLY
--- TWR --- TWR --- TWR ---	TEMPERED WATER RETURN
--- N <sub>2</sub> O --- N <sub>2</sub> O --- N <sub>2</sub> O ---	NITROUS OXIDE
--- O --- O --- O ---	OXYGEN
--- N <sub>2</sub> --- N <sub>2</sub> --- N <sub>2</sub> ---	NITROGEN
--- NG --- NG --- NG ---	NATURAL GAS
--- NG --- NG --- NG ---	NATURAL GAS, BELOW GRADE
--- FOD --- FOD --- FOD ---	FUEL OIL DISCHARGE
--- FOS --- FOS --- FOS ---	FUEL OIL SUPPLY
--- FOV --- FOV --- FOV ---	FUEL OIL VENT
--- FOR --- FOR --- FOR ---	FUEL OIL RETURN

**GENERAL PLUMBING SYMBOLS**

	DIRECTION OF PIPE PITCH (DOWN)
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	LIMIT OF DEMOLITION
	INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES
	FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES
	STRAINER
	THERMOMETER
	PRESSURE GAGE
	FLOW ELEMENT
	WALL CLEAN OUT
	CLEAN OUT
	HOSE BIB

**PLUMBING VALVE SYMBOLS**

	GATE VALVE
	GLOBE VALVE
	GATE VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE
	ANGLE GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING CONTROL VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	PRESSURE REGULATING VALVE
	AUTOMATIC FLOW CONTROL VALVE
	PRESSURE RELIEF VALVE
	MANUAL AIR VENT
	TEST PLUG (PRESSURE/TEMPERATURE)
	AUTOMATIC AIR VENT
	THERMOSTATIC MIXING VALVE

**PLUMBING GENERAL NOTES**

- ALL PIPING IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE HARD SUSPENDED CEILING.
- ACCESS PANELS ARE REQUIRED FOR ALL VALVES, TRAPS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
- PROVIDE ACoustical SEALANT PER SPECIFICATIONS SECTION 07 92 00 AT ALL PIPE PENETRATIONS THROUGH SOUND RATED PARTITIONS.
- SUBMIT COMPLETE CONSOLIDATED AND COORDINATED SHOP DRAWINGS FOR ALL NEW SYSTEMS, AND FOR EXISTING SYSTEMS THAT ARE IN THE SAME AREAS. DO NOT INSTALL EQUIPMENT FOUNDATIONS, EQUIPMENT, OR PIPING UNTIL COORDINATION/SHOP DRAWINGS HAVE BEEN APPROVED.

File Path

VA FORM 08-6231

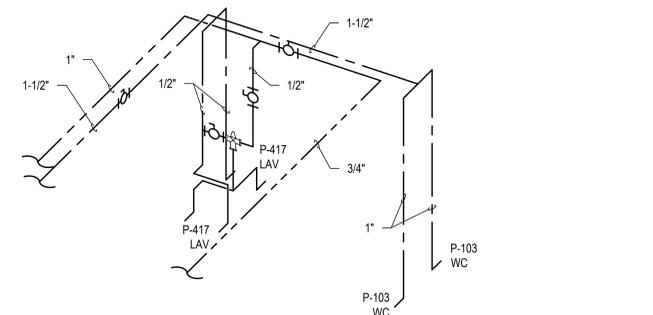
<p><b>CONSULTANTS:</b></p>	<p><b>ARCHITECT/ENGINEERS:</b></p> <p>750 W HAMPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM</p> <p>VEG 4.11</p>	<p><b>STAMP:</b></p>	<p>Drawing Title <b>PLUMBING ABBREVIATIONS AND LEGENDS</b></p> <p>Approved: Project Director</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION</p> <p>Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636</p> <p>Issue Date 08/05/2020</p>	<p>Project Number 436-114</p> <p>Building Number 173 / 154</p> <p>Drawing Number P-001</p>
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**NOTES:**

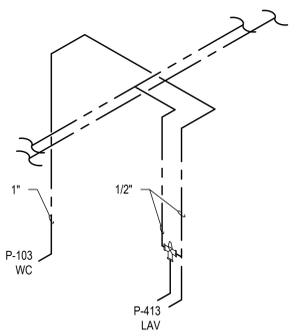
- ALL EXPOSED PLUMBING FEATURES SUCH AS VALVES, STRAINERS, FLANGES, AND MORE SHALL BE INSULATED WITH REMOVABLE PAD INSULATION SUCH AS THE AUBURN MFG. EVERGREEN PRODUCT OR EQUAL.
- ALL STORM PIPES SIZED AT 1/4" SLOPE.
- INSULATE ALL PIPES PER 22 07 11 PLUMBING INSULATION SPECIFICATIONS. STORM WATER PIPES SHALL BE INSULATED IN HORIZONTAL SECTIONS AND 2 FEET PAST CHANGES TO VERTICAL SECTIONS FOR INTERIOR SECTION OF ROOF DRAINS.
- PROVIDE CONCRETE EQUIPMENT BASE FOR FLOOR MOUNTED EQUIPMENT PER DETAIL 3 ON M-501.
- REFER TO P-501 FOR PLUMBING FIXTURE SCHEDULE.
- PROVIDE ACCESS PANEL AT ALL MIXING VALVE LOCATIONS. PROVIDE ISOLATION VALVES AT ALL MIXING VALVE CONNECTIONS FOR SERVICE/REPLACEMENT.

**KEY NOTES:**

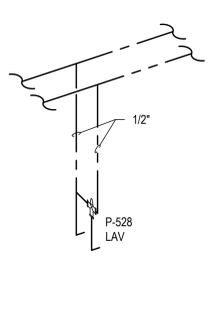
- PROVIDE SINGLE ASSE 1070 TEMPERING VALVE SIZED TO SERVE ALL LAVATORIES IN PUBLIC RESTROOMS. REFER TO ISOMETRIC DRAWINGS.
- 3" OFD LAMBS TONGUE 18" ABOVE FINISHED GRADE. (PROVIDE SPLASHBLOCK)
- 3" RD LAMBS TONGUE 18" ABOVE FINISHED GRADE. (PROVIDE SPLASHBLOCK)
- PIPING AND ROOF DRAIN BODIES WITHIN CANOPY CONSTRUCTION TO BE PROTECTED BY HEAT TRACING IN ADDITION TO PIPE INSULATION. CONTINUE HEAT TRACING TO 6" MINIMUM INSIDE THE INTERIOR CONDITIONED BUILDING. REFER TO SPECIFICATIONS SECTION 22 05 33 HEAT TRACING FOR PLUMBING FOR REQUIREMENTS. BASIS OF DESIGN FOR HEAT TRACING IS CHROMALOX CR10-2R SELF REGULATING HEAT TRACE CABLES AND CHROMALOX CS-AS AERIAL SNOW SENSOR OR APPROVED EQUAL.
- SEE ISOMETRIC A
- SEE ISOMETRIC B
- SEE ISOMETRIC C
- SEE ISOMETRIC D



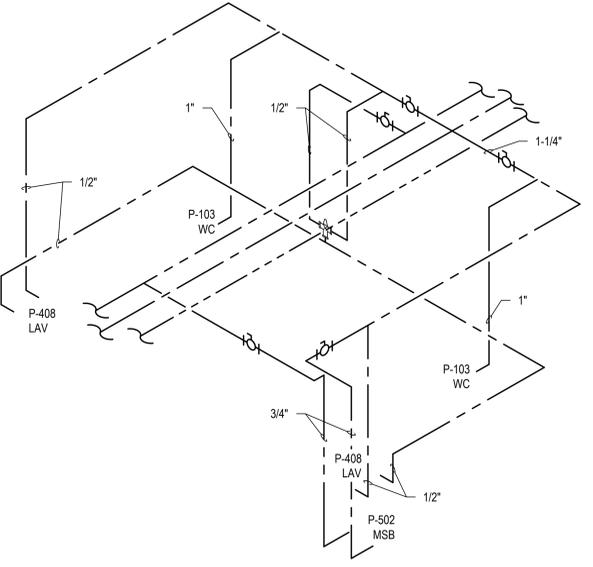
**2 ISOMETRIC A**  
SCALE: NO SCALE



**4 ISOMETRIC C**  
SCALE: NO SCALE

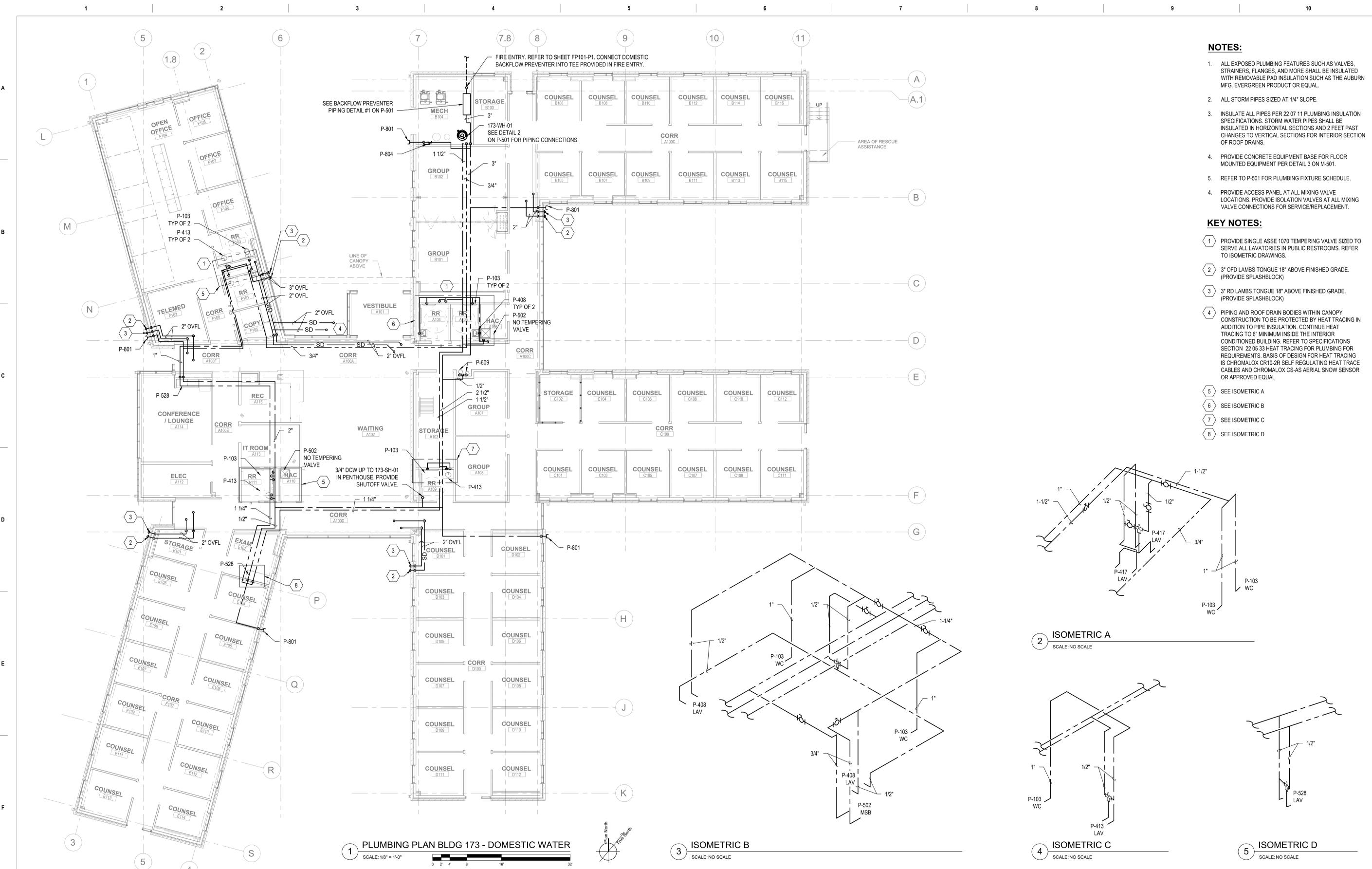


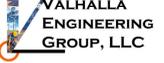
**5 ISOMETRIC D**  
SCALE: NO SCALE



**3 ISOMETRIC B**  
SCALE: NO SCALE

**1 PLUMBING PLAN BLDG 173 - DOMESTIC WATER**  
SCALE: 1/8" = 1'-0"



CONSULTANTS:  <b>HOEFER WYSOCKI</b> 11400 TONAWANDA CREEK PARKWAY SUITE 400 LEANWOOD, MARYLAND 20648	ARCHITECT/ENGINEERS:  <b>VALHALLA ENGINEERING GROUP, LLC</b> 750 W HAMPDEN AVE SUITE #100 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM	STAMP: 	Drawing Title <b>PLUMBING PLAN - DOMESTIC WATER</b> Approved: Project Director	Phase 100% CONSTRUCTION DOCUMENTS	Project Title OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	Project Number 436-114			
						Building Number 173			
Issued: VA FORM 08-6231	Date:	CONSULTANTS:  <b>Protection Engineering</b> 11400 TONAWANDA CREEK PARKWAY SUITE 400 LEANWOOD, MARYLAND 20648	ARCHITECT/ENGINEERS:  <b>JIRSA HEDRICK Structural Engineers</b> 750 W HAMPDEN AVE SUITE #100 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM	U.S. Department of Veterans Affairs	Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636	Issue Date 08/05/2020	Checked DD	Drawn ANT	Drawing Number PP101-P1

**NOTES:**  
 1. REFER TO P-501 FOR PLUMBING FIXTURE SCHEDULE.



1 PLUMBING PLAN BLDG 173 - SANITARY AND VENT  
 SCALE: 1/8" = 1'-0"



Issued:	Date:

**CONSULTANTS:**

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**LANDS**

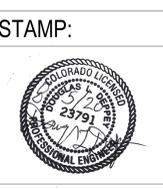
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VEG.4.11



Drawing Title  
**PLUMBING PLAN - SANITARY AND VENT**

Approved: Project Director

Phase  
 100% CONSTRUCTION DOCUMENTS

Project Title  
 OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION

Location  
 3687 VETERANS DRIVE, FORT HARRISON, MT 59636

Issue Date  
 08/05/2020

Checked  
 DD

Drawn  
 ANT

Project Number  
 436-114

Building Number  
 173

Drawing Number  
 PP102-P1

**NOTES:**

1. PROVIDE HEAT TRACING FOR DOWNSPOUTS AND GUTTERS PER SPECIFICATION SECTION 22 05 33 HEAT TRACING FOR PLUMBING PIPING.
2. BASIS OF DESIGN FOR HEAT TRACING IS CHROMALOX CR10-2R SELF REGULATING HEAT TRACE CABLES AND CHROMALOX CS-AS AERIAL SNOW SENSOR OR APPROVED EQUAL.

**KEY NOTES:**

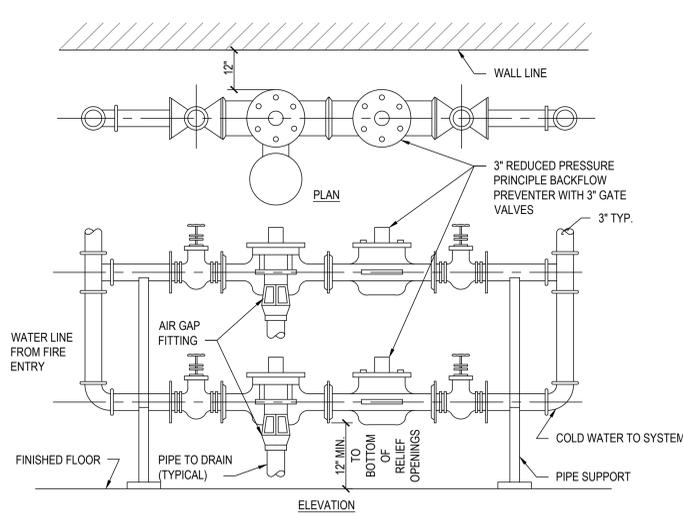
- 1 PIPING AND ROOF DRAIN BODIES WITHIN CANOPY CONSTRUCTION TO BE PROTECTED BY HEAT TRACING IN ADDITION TO PIPE INSULATION. CONTINUE HEAT TRACING TO 6" MINIMUM INSIDE THE INTERIOR CONDITIONED BUILDING. REFER TO SPECIFICATION SECTION 22 05 33 HEAT TRACING FOR PLUMBING FOR REQUIREMENTS.



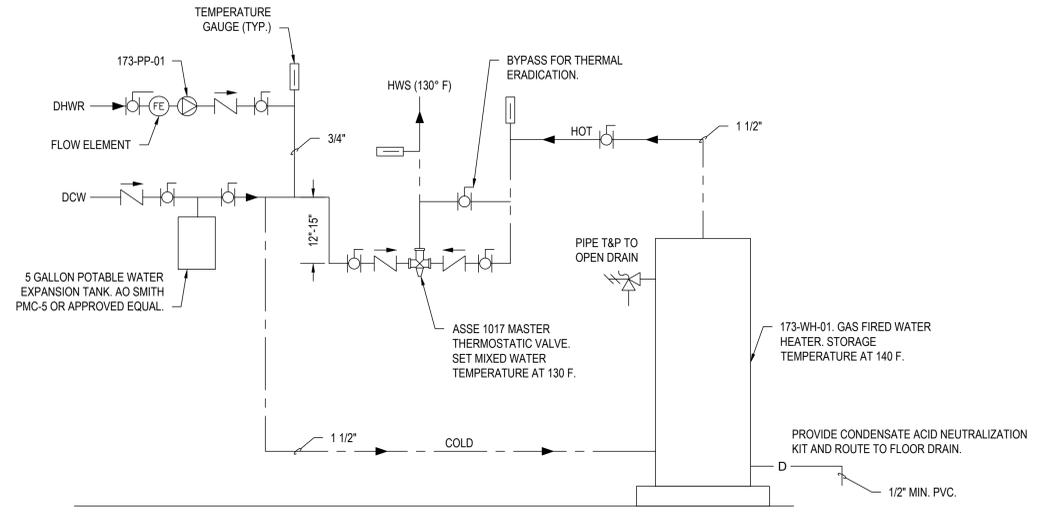
1 PLUMBING PLAN BLDG 173 - ROOF PLAN  
SCALE: 1/8" = 1'-0"



Issued: VA FORM 08-6231	Date:	<b>CONSULTANTS:</b> 	<b>ARCHITECT/ENGINEERS:</b> 	<b>STAMP:</b> 		Drawing Title <b>PLUMBING PLAN - ROOF PLAN</b>	Phase 100% CONSTRUCTION DOCUMENTS	Project Title OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	Project Number 436-114
		Approved: Project Director	Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636	Issue Date 08/05/2020	Checked DD	Drawn DN	Building Number 173	Drawing Number <b>PP103-P1</b>	



1 BACKFLOW PREVENTER PIPING DETAIL  
SCALE: NO SCALE



2 GAS FIRED WATER HEATER CONNECTION DETAIL  
SCALE: NO SCALE

PUMP SCHEDULE													
MARK	SYSTEM AND/OR SERVICE	TYPE	CIRCULATING FLUID				ELECTRICAL MOTOR				MANUFACTURER AND MODEL	REMARKS	
			FLUID	FLOW GPM	HEAD FT	TEMPERATURE °F	HP	PHASE	VOLT	MAX RPM			SPEED CONTROL
173-PP-01	DOMESTIC HOT WATER PRIMARY	INLINE CIRCULATOR	HOT WATER	2	10	140	0.08	1	115	-	ECM	BELL & GOSSETT ECOCIRC 19-16 OR APPROVED EQUAL	1,2

NOTES:  
1. PROVIDE UNIT WITH INTEGRAL CONTROL.  
2. PROVIDE DISCONNECT FOR UNIT. REFER TO E-601 AND E-602 FOR REQUIREMENTS.

GAS FIRED WATER HEATER SCHEDULE																
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	STORAGE CAPACITY GAL	RECOVERY @ 100 °F RISE GAL/HR	TIME TO RECOVER CONTENTS, MINUTES	RELIEF VALVE SETTING PSIG	FUEL			ELECTRICAL DATA			MANUFACTURER AND MODEL	REMARKS
									TYPE	INLET PRESSURE IN WG	FLOW CFH	VOLT	PHASE	FLA		
173-WH-01	B104	173	DOMESTIC HOT WATER	TANK STORAGE	60	116	31	100	NG	7	120	120	1	5	AO SMITH CYCLONE MXI BTH 120A OR APPROVED EQUAL	1,2,3,4

NOTES:  
1. WATER HEATER STORAGE TEMPERATURE SHALL BE SET AT 140 F MIN.  
2. PROVIDE CONDENSATE ACID NEUTRALIZATION KIT.  
3. PROVIDE CONCENTRIC VENT KIT.  
4. PROVIDE ASME TANK CONSTRUCTION.

PLUMBING FIXTURE SCHEDULE								
MARK	DESCRIPTION	CONNECTION SIZE (IN)				WASTE FIXTURE UNITS	WATER FIXTURE UNITS	REMARKS
		COLD WATER	HOT WATER	WASTE PIPE	VENT PIPE			
P-103	WALL HUNG WATER CLOSET	1"	-	4"	2"	4	10	1,2
P-201	URINAL	3/4"	-	1-1/2"	1-1/2"	2	3	1,2
P-408	WALL HUNG LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	1	2	1,2
P-417	COUNTERTOP LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	1	2	1,2
P-502	SERVICE SINK	3/4"	3/4"	3"	2"	2	4	1,2
P-524	SINK, CRS, DOUBLE COMPARTMENT	1/2"	1/2"	1-1/2"	1-1/2"	1	2	1,2
P-528	SINK, CRS, SINGLE COMPARTMENT	1/2"	1/2"	1-1/2"	1-1/2"	1	2	1,2
P-609	ELECTRIC WATER COOLER	1/2"	-	1-1/2"	1-1/2"	0.5	0.25	1,2
P-801	WALL HYDRANT	3/4"	-	-	-	-	-	2
P-804	HOSE BIB	3/4"	-	-	-	-	2.5	2
FD-1	TYPE-E FLOOR DRAIN	-	-	4"	2"	6	-	1,2
FD-2	TYPE-C FLOOR DRAIN	-	-	3"	2"	10	-	1,2
OFD	OVERFLOW ROOF DRAIN	-	-	-	-	-	-	2
RD	ROOF DRAIN	-	-	-	-	-	-	2

NOTES:  
1. UNDERGROUND WASTE PIPES SHALL BE 2" MINIMUM REGARDLESS OF CONNECTION SIZE SHOWN.  
2. REFER TO PLUMBING SPECIFICATIONS FOR FIXTURE REQUIREMENTS.

Issued:	Date:	CONSULTANTS:	ARCHITECT/ENGINEERS:	STAMP:	U.S. Department of Veterans Affairs	Drawing Title	Phase	Project Title	Project Number
						<b>PLUMBING DETAILS AND SCHEDULES</b>	100% CONSTRUCTION DOCUMENTS	OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	436-114
						Approved: Project Director		Location	Building Number
								3687 VETERANS DRIVE, FORT HARRISON, MT 59636	173 / 154
								Issue Date	Drawing Number
								08/05/2020	P-501
								Checked	
								DD	
								Drawn	
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