PLUMBING FIXTURE SCHEDULE							
ITEM	MANUFACTURER	MODEL	DRAIN	VENT	COLD WATER	HOT WATER	DESCRIPTION
EWH	EEMAX	SPEX4208T			1/2"	1/2"	TANKLESS WATER HEATER 208V SINGLE PHASE 4.1KW. 56 DEGREE RISE AT 0.5GPM.
FD	JAY R. SMITH	2005YA-P050	3"	2"			DUCO CAST IRON BODY FLOOR DRAIN WITH FLASHING COLLAR, ROUND ADJUSTABLE STRAINER HEAD, AND TRAP PRIMER CONNECTION.
LAV	SLOAN	SS-3001-STG	2"	1-1/2"	1/2"	1/2"	LAVATORY, UNDERMOUNT, VITREOUS CHINA, FRONT OVERFLOW, SLOAN EAF-250-BAT-CP-0.5GPM-AER-IR-IQ-FCT FAUCET, INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH TRUBRO #102 HANDI-LAV GUARD. PROVIDE ASSE 1070 COMPLIANT MIXING VALVE FOR 110°F DISCHARGE TEMPERATURE.
SNK	ELKAY	ECTRU31179TFC	2"	1-1/2"	1/2"	1/2"	18 GUAGE STAINLESS STEEL DOUBLE BOWL UNDERMOUNT SINK KIT WITH FAUCET. PROVIDE WITH ASSE 1070 COMPLIANT MIXING VALVE.
WC	SLOAN	WETS-8029.8010	3"	2"	1"		ADA HEIGHT WATER CLOSET 1.28 GALLON FLUSH, 15" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, CHURCH 9500C OPEN FRONT SEAT WITH CHECK HINGE AND LESS COVER.

## GENERAL PLUMBING NOTES

- ALL WORK SHALL BE IN CONFORMANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
- PROVIDE TO OWNER A COPY OF ALL REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS AND ALL PLUMBING SYSTEMS EQUIPMENT MANUALS INCLUDING WARRANTIES.
- COORDINATE THE COMPLETE INSTALLATION OF SYSTEMS TO AVOID CONFLICT WITH OTHER TRADES.
- COORDINATE ALL ABOVE SLAB AND UNDER SLAB SANITARY, AND WATER PIPING SYSTEMS TO AVOID CONFLICT WITH ALL OTHER TRADES SYSTEMS, AND COLUMN FOOTINGS. ALL SOIL AND WASTE PIPING SHALL BE GRADED TO A UNIFORM SLOPE OF NOT LESS THAN 1/8" PER FOOT FOR PIPING 4" OR LARGER, AND NOT LESS THAN 1/4" PER FOOT FOR PIPING 3" OR SMALLER.
- COORDINATE ALL FLOOR DRAINS, CLEANOUTS, AND FLOOR MOUNTED FIXTURES WITH FINISHED FLOOR SLAB ELEVATION TO ENSURE THEY ARE INSTALLED PLUM AND FLUSH WITHOUT CRACKS, RISE IN THE SLAB, OR VOIDS AROUND GRATES OR TOPS. ALL CLEANOUTS SHALL BE INSTALLED ALONG MAINS AT 50'-0" DISTANCE MAXIMUM. ALL FLOOR AND WALL CLEANOUTS SHALL BE ACCESSIBLE FOR MAINTENANCE AND NOT INSTALLED BENEATH EQUIPMENT. ANY DRAIN GRATES THAT ARE DAMAGED AS A RESULT OF OTHER CONSTRUCTION PRIOR TO RELEASE OF THE BUILDING TO THE OWNER SHALL BE REPLACED WITH LIKE GRATE AT NO EXPENSE OF THE
- ALL EXPOSED PIPES PENETRATING FINISHED WALLS SHALL BE EQUIPPED WITH WALL ESCUTCHEONS.
- PROVIDE TRAP AND SEAL PRIMERS ON ALL FLOOR DRAINS IF REQUIRED BY CODE OR OWNER.

OWNER.

- PLUMBING VENTS THROUGH THE ROOF ARE LOCATED AT A MINIMUM OF 5'-0" FROM BUILDING PARAPETS AND 10'-0" FROM FRESH AIR INTAKES AND AS REQUIRED TO MEET LOCAL CODES.
- ALL SHUT-OFF OR BALANCING VALVES TO PLUMBING ROUTED IN PIPE CHASES SHALL BE ACCESSIBLE FROM CEILING AREA OR ACCESS DOORS PROVIDED IN WALL.
- PROVIDE FINAL CONNECTIONS FOR ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. PROVIDE ALL REQUIRED SHUT-OFFS, BACKFLOW PREVENTERS, PRESSURE REGULATORS, AND CONDENSATE DRAINS AS REQUIRED BY LOCAL CODES FOR COMPLETE EQUIPMENT INSTALLATION. CONSULT EQUIPMENT SUPPLIER OR OWNER FOR ADDITIONAL FINAL CONNECTION REQUIREMENTS NOT SHOWN ON THESE DRAWINGS.
- CONTRACTOR TO FULLY INVESTIGATE ALL EXISTING PIPING TO REMAIN TO INSURE EXISTING PIPING IS IN GOOD REPAIR. IF ANY EXISTING PIPING IS FOUND TO BE DAMAGED REPLACE WITH LIKE.

## PLUMBING ABBREVIATIONS

AD	AREA DRAIN, ACCESS DOOR	IE	INVERT ELEVATION
AFC	ABOVE FINISH CEILING	LP	LIQUIFIED PETROLEUM
AFG	ABOVE FINISH GRADE	MBH	1000 BTU PER HOUR
AHU	AIR HANDLING UNIT	N/A	NOT APPLICABLE
BFP	BACKFLOW PREVENTER	ORD	OVERFLOW ROOF DRAIN
BOP	BOTTOM OF PIPE	OST	STORM OVERFLOW
BOS	BOTTOM OF STRUCTURE	PD	PUMP DISCHARGE
CD	CONDENSATE	PIV	POST INDICATOR VALVE
CO	CLEANOUT	PRV	PRESSURE REDUCING VALVE
CW	DOMESTIC COLD WATER	REV	REVISION
DD	DECK DRAIN	RPM	REVOLUTIONS PER MINUTE
DN	DOWN	RTU	ROOF TOP UNIT
ETR	EXISTING TO REMAIN	SAN	SANITARY
EWC	ELECTRIC WATER COOLER	SCW	SOFT DOMESTIC COLD WATER
FCO	FLOOR CLEANOUT	SHW	SOFT DOMESTIC HOT WATER
FFA	FROM FLOOR ABOVE	SDHWR	SOFT RECIRC. HOT WATER
FP	FIRE PROTECTION	ST	STORM
FS	FLOOR SINK	TFA	TO FLOOR ABOVE
G	GAS (NATURAL)	TFB	TO FLOOR BELOW
GCO	GRADE CLEANOUT	TW	TEMPERED WATER
GPM	GALLONS PER MINUTE	UH	UNIT HEATER
HB	HOSE BIBB	V	VENT PIPE
HW	DOMESTIC HOT WATER	VTR	VENT THROUGH ROOF
HWR	HOT WATER RETURN	WCO	WALL CLEANOUT
HWS	HOT WATER SUPPLY	WH	WALL HYDRANT

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SYMB			J JYIN SYMBOL						
		GATE VALVE			DRAIN / AREA D	RAIN			
		HECK VALVE	•	FLOOR	SINK				
_k	j_ PI	RESSURE	() RD	ROOF D	RAIN				
⊠ -X	⊢ <sup>S0</sup>	OLENOID VALVE			OW ROOF DRA	IN			
		LOBE VALVE (STRAIGHT PATTERN)		HOT WA	TER RECIRCUL	ATION PUMP			
-6	В	UTTERFLY VALVE			NG VEVT THRU	ROOF			
-6		ALL VALVE	VTR						
-5		AS COCK		POINT O TO EXIS	F CONNECTIO TING)	N (CONNECT	NEW		
		LUG VALVE LOOR CLEAN OUT		) PLUMBI	NG EQUIPMEN	T DESIGNATIO	ON		
FČ( 		/ALL CLEAN OUT	$\begin{pmatrix} x \\ x \end{pmatrix}$	PLUMBI	NG RISER OR D	ETAIL DESIG	NATION		
		LEAN OUT		- SANITA	RY SEWER P	IPING			
		OSE BIBB	ST	- STORN	I SEWER PIPII	NG			
_		REEZE PROOF WALL HYDRANT	V	- VENT F	PIPING				
К	] si	HOWER HEAD	VBF		PIPING (BELO)	,			
	+-) El	LBOW DOWN	CW			6			
	+O EI	LBOW UP	— <u>– –</u> – –		ATER PIPING				
-+0	)+   TE	EE UP	CWBF	- COLD	VATER PIPINO	G (BELOW SI	LAB)		
+		EE DOWN	HWBF -	- HOT W	ATER PIPING	(BELOW SLA	AB)		
-+-	> <b>-</b> s	TRAINER	HWR	HOT W	ATER RECIRC	ULATING PI	PING		
	1 UI	NION	FW	- FILTER	ED WATER PI	PING			
	⊐—  RI	EDUCER	FWBF	- FILTER	ED WATER PI	PING BELOV	N GRADE	at l	420
	] C/	AP	GAS	- GAS PI	PING			ΙÖ	-
<u></u> η	, FL	LEX PIPE	CD	- CONDE	NSATE PIPIN	G			Suite 34081
	GNATION WC UR	PLUMBING FIX CONNECTIO				DRAIN 4"	VENT 2"	o Communications	SW Longview Blvd Suite _ee's Summit, MO 64081
	LAV.			3/4"	- 1/2"	2"	2" 2"		S. S.

DESIGNATION	FIXTURE	C.W.	Π. VV.	DRAIN	VENI
WC	WATER CLOSET	1"	-	4"	2"
UR	URINAL	3/4"	-	2"	2"
LAV.	LAVATORY	1/2"	1/2"	2"	2"
EWC/DF	ELECTRIC WATER COOLER/DRINKING FOUNTAIN	1/2"	-	2"	2"
MB/SS	MOP BASIN/SERVICE SINK	1/2"	1/2"	3"	2"
SH/BT	SHOWER/BATHTUB	1/2"	1/2"	2"	2"
SK	SINK	1/2"	1/2"	2"	2"

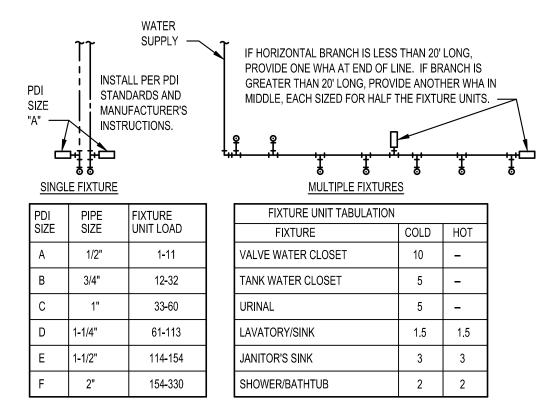
GENERAL NOTES:

PITCH ALL DRAINAGE PIPING 3" AND LARGER AT 1/8" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. PITCH ALL DRAINAGE PIPING 2-1/2" AND SMALLER AT 1/4" PER FOOT.

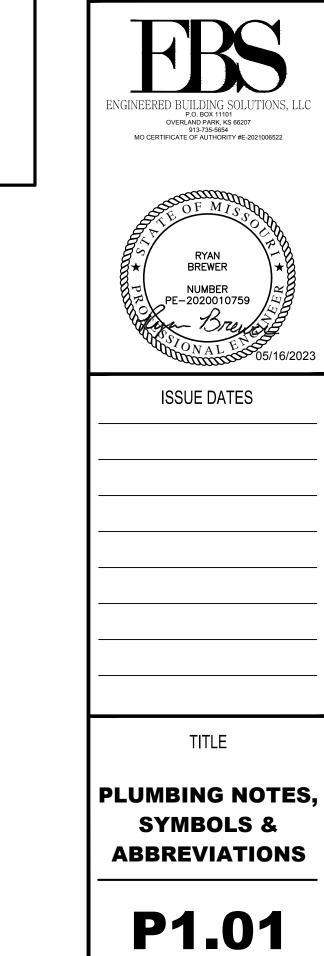
ALL UNDERGROUND DRAINAGE PIPING SHALL BE A MINIMUM OF 2" IN SIZE.

PROVIDE TRAP PRIMER UNITS FOR ALL FLOOR DRAINS.

VERIFY/COORDINATE LOCATIONS OF ALL FIXTURES, DRAIN, ETC. WITH ARCHITECT PRIOR TO ROUGH-IN.



PROVIDE WATER HAMMER ARRESTERS ON ALL QUICK CLOSING VALVES, INSTALLED AS CLOSE TO THE FIXTURES AS POSSIBLE TO CONTROL THE EFFECTS OF WATER HAMMER INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES. DO NOT PROVIDE AIR CHAMBERS. PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS PER THE TABLES SHOWN ABOVE.



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WATER HAMMER ARRESTERS