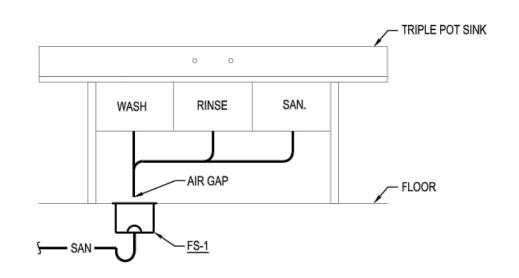
ELECTRIC WATER HEATER DETAIL SCALE: NTS



TRIPLE POT SINK DETAIL

PLUMBING ABBREVIATIONS

AD	AREA DRAIN	NTS	NOT TO SCALE
ASR	AUTOMATIC SPRINKLER RISER	ORD	OVERFLOW ROOF DRAIN
BFS	BELOW FLOOR SLAB	OXY	OXYGEN
BWV	BACK WATER VALVE	Р	PUMP
СВ	CATCH BASIN	PD	PRESSURE DROP
CI	CAST IRON	PVC	POLY-VINYL-CHLORIDE
CO	CLEAN OUT	RC	RAIN CONDUCTOR
CV	CONTROL VALVE	RD	ROOF DRAIN
DF	DRINKING FOUNTAIN	RI	ROUGH-IN
DIA	DIAMETER	REQ'D	REQUIRED
DN	DOWN	SAN	SANITARY
DWH	DOMESTIC WATER HEATER	SHWR	SHOWER
E.T.C.	ELECTRICAL TRADES CONTRACTOR	SK	SINK
EWC	ELECTRIC WATER COOLER	SP	STAND PIPE
EXIST	EXISTING	SQ. FT.	SQUARE FEET
FD	FLOOR DRAIN	SS	SERVICE SINK
FC	FINAL CONNECTIONS	ST	STORM
FDC	FIRE DEPT. CONNECTION	S&W	STOP & WASTE
FF	FINISH FLOOR	STR	STRAINER
FHV	FIRE HOSE VALVE	SV	STACKED VENT
FT	FEET	TYP.	TYPICAL
GAL	GALLON	UR	URINAL
GD	GARBAGE DISPOSAL	VB	VACUUM BREAKER
GI	GREASE INTERCEPTOR	VS	VENT STACK
GPH	GALLONS PER HOUR	V.F.D	VARIABLE FREQUENCY DRIVE
GPM	GALLONS PER MINUTE	VTR	VENT THRU ROOF
HB	HOSE BIB	W	WASTE
HD	HEAD (FT)	WB	WET BULB
HP	HORSE POWER	WC	WATER CLOSET
ID	INSIDE DIAMETER	WH	WALL HYDRANT
I.E.	INVERT ELEVATION	WS	WASTE STACK
LAV	LAVATORY	W&V	WASTE AND VENT
LT	LAUNDRY TRAY	X-CW_	EXIST. CW PIPING
MA	MEDICAL AIR		─ ITEM
MAX	MAXIMUM	_	— EXISTING
MGC	MEDICAL GAS CONSOLE		
MH	MAN HOLE		
MIN	MINIMUM		
MO	MOD CINIC		

PLUMBING SYMBOLS LEGEND

MECHANICAL TRADES CONTRACTOR

MOP SINK

PLUMBIN	IG PIPINO	3	PLUMBING	S VALVES
- cw		COLD WATER	── ⋈──	GATE VALVE
CW		COLD WATER BELOW FINISH SLAB	——∞—	GLOBE VALVE
- HW		HOT WATER		BALL VALVE
HW		HOT WATER BELOW FINISH SLAB		
- SAN		SANITARY WASTE	PLLIMBING	EQUIPMENT
- SAN -	— —	SANITARY WASTE BELOW FINISH SLAB	1 LOWDING	LOCI MENT
-v		VENT PIPING		FLOW DIRECTION
v		VENT PIPING BELOW FINISH SLAB		PIPING DROP
		DEMOLITION		PIPING RISE
				FLOOR CLEANOUT
MISCELL.	ANEOUS	NOTES	Q	THERMOMETER
•			——	CONNECTION
•	POINT OF (EXISTING	CONNECTION BETWEEN NEW AND	O	FLOOR DRAIN & FLOOR SINK
�		EXISTING TO REMAIN AND EXISTING		BACK FLOW PREVENTER
	TO BE REM	IOVED		FLANGE END CONNECTION

GENERAL PLUMBING NOTES

- 1. ALL PLUMBING WORK SHALL CONFORM TO MICHIGAN PLUMBING CODE, LATEST APPLICABLE EDITION.
- 2. INSTALL ALL EQUIPMENT, MATERIALS, AND ACCESSORIES PER MANUFACTURERS WRITTEN
- CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING WORK.
- 4. FIELD VERIFY LOCATIONS OF EXISTING PIPING THAT MAY CONFLICT WITH NEW CONSTRUCTION AND RELOCATE AS NEEDED.
- NOTIFY OWNER OF ANY PIPING DEMOLITION THAT MAY AFFECT NORMAL OPERATION OF OTHER AREAS.
- 1% SLOPE FOR ALL SANITARY PIPING.
- 7. THE CONTRACTOR SHALL FIELD VERIFY THE SIZES, LOCATION, ELEVATIONS, AND DETAILS OF ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EQUIPMENT AND MATERIALS IN A "NEW" CONDITION DURING CONSTRUCTION.
- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND SUBCONTRACTORS AS REQUIRED
- 10. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CODES AND REGULATIONS ENFORCED BY LOCAL BUILDING OFFICIALS.
- 11. IF THERE IS CONFLICTING INFORMATION IN THE PLANS OR SPECIFICATIONS THE MORE STRINGENT AND GREATER COST ITEM SHALL BE USED.
- 12. DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION OF PIPES AND SUGGESTED ROUTES. IT IS NOT INTENTION OF DRAWINGS TO INDICATE ALL NECESSARY OFFSETS. INSTALL WORK IN MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. DO NOT SCALE FROM DRAWINGS.

GENERAL PLUMBING **SPECIFICATIONS**

CODES AND ORDINANCES COMPLY WITH MICHIGAN PLUMBING CODE

PIPING SPECIALTIES ESCUTCHEONS: CHROME PLATED, MANUFACTURED WALL, CEILING,

AND FLOOR PLATES. DEEP PATTERN TYPE WHERE REQUIRED TO CONCEAL PROTRUDING FITTINGS AND SLEEVES. INSTALL ON ALL PIPING EXPOSED TO VIEW IN FINISH SPACES AND UNDER SINKS. DIELECTRIC FITTINGS: INSTALL DIELECTRIC FITTINGS WHERE JOINING PIPING OF DISSIMILAR METALS.

PIPE INSULATION

DOMESTIC COLD WATER: MINIMUM OF 1" CLOSED CELL FOAM OR MINERAL FIBER WITH ASJ JACKET WITH SEALED JOINTS TO PREVENT CONDENSATION. DOMESTIC HOT WATER: INSULATE SAME AS COLD

V

WATER DISTRIBUTION PIPING

MATERIAL: HARD COPPER TUBE, ASTM B88, TYPE L WATER TUBE, DRAWN TEMPER WITH COPPER SOLDER JOINT PRESSURE FITTINGS. JOINING MATERIAL: SOLDER, ASTM B32, ALLOY Sn95, Sn94, OR E, LEAD FREE. CLEANING & DISINFECTING: PURGE AND DISINFECT PORTABLE WATER SYSTEMS AS PRESCRIBED BY AUTHORITIES HAVING JURISDICTION. FOR UNDERGROUND PIPING, USE TYPE K SOFT COPPER TUBE WITH NO JOINTS.

PIPE HANGERS

ADJUSTABLE STEEL CLEVIS HANGERS, NOT-METALLIC COATING FOR ELECTROLYTIC PROTECTION WHER ATTACHMENTS ARE IN DIRECT CONTACT WITH COPPER. COPPER U-STRAP HANGERS FOR UNINSULATED PIPE. COMPLY WITH MSS STANDARD PRACTICE #SP-69

DRAINAGE AND VENT PIPING

ABOVE GROUND WASTE AND VENT: HUBLESS CAST, SOIL PIPE, C1SP1 301 WITH HUBLESS CAST-IRON COUPLINGS, C1SP1 310 WITH SS CORRUGATED SHIELD, SS BANDS, AND RUBBER SLEEVE. BELOW GROUND AND CONCEALED WASTE & VENT: PVC PLASTIC PIPE, ASTM D2665, SCHEDULE 40 WITH DRAINAGE PATTERN SOCKET FITTINGS.

HANGERS FOR CAST IRON PIPE:

1 1/2" & 2" PIPE.	60 INCH MAX SPACING	3/8
INCH ROD 3" PIPE	60 INCH MAX SPACING	1/2
INCH ROD 4" & 5" PIPE	60 INCH MAX SPACING	5/8
INCH ROD		

BALL VALVES: 2 PIECE ALLOY, BRONZE BODY WITH FULL PORT, CHORME PLATED BALL, TFE STEATS, 600 PSIG MIN CWP RATING, LEVEL HANDLE WITH EXTENDED STEM FOR INSULATION.

SHOP DRAWINGS

THE CONTRACTOR SHALL SUBMIT EQUIPMENT SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF ANY OF

THE FOLLOWING: A. PLUMBING FIXTURES

B. PLUMBING PIPE, FITTINGS, AND HANGERS

WATER COOLER CARRIER

NO. DESCRIPTION

12/14/2021

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DRAWING TITLE

PLUMBING SYMBOLS, NOTES, AND ABBREVIATIONS

PROJECT NO. 21-450 12/13/2021 DRAWN CHECKED P100

CAD FILE NO. 13 OF 22

DOMESTI	C WATER HEATER SCHEDULE		
GPH @ 90°F	ELECTRICAL	HOT WATER	

							SASAN — NAV. MALLANDA DE SASCONA-	- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12					
TAG	MODEL	LOCATION	GALLON	GPH @ 90°F			ELECTRICA	L		HOT WATER	REMARKS		
TAG	WODEL	LOCATION	LOCATION	LOCA HOM	CAPACITY	RISE	VOLTAGE	PHASE	WATTS	DISC. BY	STARTER BY	TEMP.	KEWAKKS
DWH-1	JEÅ030KD	CONCESSION / STORAGE RM 102	26	21	240	1	6000	EC	EC	120	1,2,3		

NOTES:

INDICATES PLAN NOTE

DETAIL BUBBLE

PAGE LOCATION INDICATES

XX DETAIL NUMBER

INDICATES DEMOLITION NOTE

BASED ON: LOCHINVAR ELECTRICAL NOTES:

3. MANUFACTURER PROVIDED DRIP PAN & STAND

→ WALL HYDRANT & HOSE BIBB

EC - ELECTRICAL CONTRACTOR MC - MECHANICAL CONTRACTOR

NR - NOT REQU	IRED		

ELECTRIC WATER COOLER WALL HUNG BI-

TAC	FIVEUDE	ROUGH-IN CONNECTION SIZE			SIZE	EZUAET'TWE	FIXTURE OIZE	ACCESSORIES AND COMMENTS
TAG	FIXTURE	CW	HW	SAN	VENT	FAUCET TYPE	FIXTURE SIZE	ACCESSORIES AND COMMENTS
WÇ-1	FLOOR MOUNTED TANK TYPE WATER CLOSET (B.F.)	1/2"	a -	4"	2"	-	-	COMMERCIAL SEAT
LAV-1	WALL HUNG LAVATORY (B.F.)	1/2"	1/2"	1 1/2"	1 1/4"	LAVATORY FAUCET GOOSENECK WRIST BLADES	20"x 18"	LAVATORY CARRIER, UNDERSINK TWV - STD. ASSE 1016
MS±1	MOP SINK	°1/2"	1/2"	3"	1 1/2*-	SERVICE SINK FAUCET	30" x 24" x 12"	HOSE AND MOP RACK
SK-1	STAINLESS STEEL THREE COMPARTMENT SINK, BASED ON ADVANCE TABCO MODEL FC-3-2424-18RL-X	°1/2"	1/2"	3"	1 1/2"	BASED ON ADVANCE TABCO MODEL FC-3-2424-18RL-X	108" x 30" x 43"	THREE COMPARTMENT SINK
FS-1	FINISH AREA FLOOR DRAIN, BASED ON JAY R. SMITH 3001 SERIES	æ	-	-	-	-	-	SEE PLAN FOR SANITARY SIZE, STAINLESS STEEL 3/4" GRATE

1/4" = 1'-0"