PLUMBING ABBREVIATIONS:

AP - ACCESS PANEL
BT - BATH TUB
BWV - BACK WATER VALVE
CFH - CUBIC FEET PER HOUR
CFM - CUBIC FEET PER MINUTE
CI - CAST IRON
CLDI - CEMENT LINED DUCTILE IRON
CO - CLEANOUT
CONC - CONCRETE
CP - CHROME PLATED
CTE - CONNECT TO EXISTING
CW - COLD WATER
CWR - COLD WATER RETURN
CWS - COLD WATER SUPPLY
DF - DRINKING FOUNTAIN
DIA - DIAMETER
ELEV - ELEVATION
EWC - ELECTRICAL WATER COOLER
FCO - FLOOR CLEANOUT
FEC - FIRE EXTINGUISHER CABINET
FHV - FIRE HOSE VALVE
FLR - FLOOR
FP - FIRE PROTECTION
FPWH - FREEZE PROOF WALL HYDRANT
FS - FLOW SWITCH
FT - FOOT OR FEET
FV - FLUSH VALVE
GALV - GALVANIZED
GCO - GROUND CLEAN OUT
GI - GREASE INTERCEPTOR
GPF - GALLONS PER FLUSH
GPM - GALLONS PER MINUTE
HC - HANDICAPPED
HW - HOT WATER
HWR - HOT WATER RETURN
HWS - HOT WATER SUPPLY
ID - INSIDE DIAMETER
INV - INVERT
IW - INDIRECT WASTE
LAV - LAVATORY
MECH - MECHANICAL
MSB - MOP SERVICE BASIN
NC - NORMALLY CLOSED
NO - NORMALLY OPEN
OD - OUTSIDE DIAMETER
OED - OPEN END DRAIN
PIV - POST INDICATOR VALVE
PLBG - PLUMBING
PSI - POUNDS PER SQUARE INCH
RPBP - REDUCED PRESSURE BACKFLOW PREVENTER
SA - SHOCK ABSORBER
SD - SANITARY DRAIN
SHWR - SHOWER
SK - SINK
SS - SOIL STACK / STAINLESS STEEL
TLT - TOILET
TS - TAMPER SWITCH
TW - TEMPERED WATER
TYP - TYPICAL
U - URINAL
V - VENT
VB - VACUUM BREAKER
VFD - VARIABLE FREQUENCY DRIVE
VS - VENT STACK
VTR - VENT THROUGH ROOF
W - WASTE
WC - WATER CLOSET (TOILET)
WH - WALL HYDRANT
WS - WASTE STACK

APPLICABLE CODES:

- 2023 FLORIDA BUILDING CODE, BUILDING (8TH EDITION)
- 2023 FLORIDA BUILDING CODE, PLUMBING (8TH EDITION)
- 2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION (8TH EDITION)

PLUMBING DRAWING LIST:

PLUMBING SPECIFICATIONS:

PART 1 - GENERAL

1.1SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

PART 2 - PRODUCTS

2.1 PIPING MATERIALS

A. COMPLY WITH REQUIREMENTS IN "PLUMBING PIPING SCHEDULE" ARTICLE FOR APPLICATIONS OF PIPE, TUBE, AND FITTING MATERIALS, AND FOR JOINING METHODS, INSULATION, AND HANGING REQUIREMENTS FOR SPECIFIC SERVICES, SERVICE LOCATIONS, AND PIPE SIZES.

2.2 VALVES

A. NSF COMPLIANCE: NSF 61 FOR VALVE MATERIALS FOR POTABLE -WATER SERVICE.

B. WATER SHUTOFF SERVICE: TWO-PIECE, FULL PORT, BRASS BALL VALVES WITH BRASS TRIM.

C. CHECK VALVES: BRASS SILENT CHECK VALVES WITH NONMETALLIC DISC SUITABLE FOR HORIZONTAL OR VERTICAL INSTALLATION.

D. FUEL GAS SHUTOFF SERVICE: TWO-PIECE, FULL PORT, BRASS BALL VALVES WITH BRASS TRIM, UL LISTED FOR GAS SERVICE.

E. FUEL GAS PRESSURE REGULATORS: COMMERCIAL STYLE REGULATORS WITH INTERNAL PRESSURE RELIEF VALVES.

2.3 HANGERS AND SUPPORTS

A. PROVIDE HANGERS INDICATED ON DRAWINGS.

B. WALL SUPPORTS

1. PIPING 3" AND SMALLER: STEEL RISER CLAMP.

C. VERTICAL SUPPORT: STEEL RISER CLAMP.

PART 3 - EXECUTION

3.1 PIPING INSTALLATION

A. INSTALL ESCUTCHEONS AT EACH WALL, FLOOR, AND CEILING PENETRATION IN EXPOSED FINISHED LOCATIONS AND WITHIN CABINETS AND MILLWORK. USE DEEP PATTERN ESCUTCHEONS WHERE REQUIRED TO CONCEAL PROTRUDING PIPE FITTINGS.

B. INSTALL SLEEVES FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.

C. INSTALL SLEEVE SEALS FOR PIPING PENETRATIONS OF CONCRETE WALLS AND SLABS.

D. MAKE SOLDERED JOINTS USING LEAD FREE SOLDER AND A NON-CORROSIZE, PASTE-TYPE FLUX. CORE SOLDER IS NOT PERMITTED SOLDER SHALL BE SOLID STRING OR WIRE TYPE. WHERE SOLDERED COPPER PIPING IS CONNECTED TO THREADED BRASS PIPING, USE CAST BRASS ADAPTOR.

E. PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF EACH DAY OR WHEN WORK STOPS.

F. MINIMUM SLOPE OF HORIZONTAL DRAIN PIPING SHALL BE 1/4" PER FOOT FOR PIPING 2-1/2" OR LESS, 1/8" PER FOOT FOR PIPING 3" TO 6", AND 1/16" PER FOOT FOR PIPING 8" OR LARGER.

G. MAKE CHANGES IN DIRECTION IN DRAIN PIPING WITH INDIVIDUAL EIGTH BENDS AND WYES.

H. QUARTER BENDS, SWEEPS, TEES, AND COMBINATION WYE & EIGTH BEND FITTINGS ARE NOT PERMITTED FOR USE ON DRAIN PIPING.

I. EXTEND RIGID GAS PIPING TO EXTERIOR GAS APPLIANCES AND INSTALL SHUTOFF VALVE, DIRT LEG, AND UNION AT EACH APPLIANCE.

3.2 JOINT CONSTRUCTION

A. REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS. BEVEL PLAIN ENDS OF STEEL PIPE.

B. REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPES, TUBES, AND FITTINGS BEFORE ASSEMBLY.

C. THREADED JOINTS: THREAD PIPE WITH TAPERED PIPE THREADS ACCORDING TO ASME B1.20.1. CUT THREADS FULL AND CLEAN USING SHARP DIES. REAM THREADED PIPE ENDS TO REMOVE BURRS AND RESTORE FULL ID. JOINT PIPE FITTINGS AND VALVES AS FOLLOWS:

1. APPLY APPROPRIATE TAPE OR THREAD COMPOUND TO EXTERNAL PIPE THREADS.
2. DAMAGED THREADS: DO NOT USE PIPE OR FITTINGS WITH THREADS THAT ARE CORRODED OR DAMAGED.

D. DISSIMILAR-MATERIAL PIPING JOINTS: MAKE JOINTS USING ADAPTERS COMPATIBLE WITH MATERIALS OF BOTH PIPING SYSTEMS.

3.3 HANGERS AND SUPPORT INSTALLATION

A. SUPPORT PIPES THROUGHOUT BUILDING, BOTH HORIZONTALLY AND VERTICAL IN ACCORDANCE WITH REQUIREMENTS HEREIN AND AS SHOWN ON THE DRAWINGS. DO NOT USE FASTENERS WHICH PENETRATE THE ROOF DECK.

B. PROVIDE COPPER PLATED HANGERS AND SUPPORTS FOR UNINSULATED COPPER PIPING. PROVIDE PLASTIC INSERTS FOR UNINSULATED COPPER PIPING PENETRATING METAL STUDS.

C. IN AREAS WITHOUT CEILINGS, SECURE INSULATION SHIELDS TO INSULATION WITH PRESSURE SENSITIVE TAPE AT EACH END OF SHIELD. INSTALL HANGERS TO PROVIDE MINIMUM ½" CLEAR SPACE BETWEEN FINISHED COVERING AND ADJACENT WORK.

E. PLACE A HANGER WITHIN ONE FOOT OF EACH HORIZONTAL ELBOW.

F. SUPPORT VERTICAL PIPE RUNS AT ROOF, AT FLOOR, AND AT MAXIMUM 15-FOOT INTERVALS.

G. SPACE SUPPORTS NOT MORE THAN FIVE FEET APART AT VALVES, STRAINERS OR PIPING ACCESSORIES LARGER THAN 2"

H. INSTALL LATERAL BRACING WITH PIPE HANGERS AND SUPPORTS TO PREVENT SWAYING.

I. INSTALL HANGERS AND SUPPORTS TO ALLOW CONTROLLED THERMAL AND SEISMIC MOVEMENT OF PIPING SYSTEMS, TO PERMIT FREEDOM OF MOVEMENT BETWEEN PIPE ANCHORS, AND TO FACILITATE ACTION OF EXPANSION JOINTS, EXPANSION LOOPS, EXPANSION BENDS, AND SIMILAR UNITS.

J. ADJUSTING

PLUMBING SPECIFICATIONS (CONT):

1. HANGER ADJUSTMENTS: ADJUST HANGERS TO DISTRIBUTE LOADS EQUALLY ON ATTACHMENTS AND TO ACHIEVE INDICATED SLOPE OF PIPE.
2. LOAD DISTRIBUTION: ADJUST HANGERS AND SUPPORTS SO THAT PIPING LIVE AND DEAD LOADS AND STRESSES FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT.
3. PIPE SLOPES: ADJUST HANGERS AND SUPPORTS TO PROVIDE INDICATED PIPE SLOPES AND TO NOT EXCEED MAXIMUM PIPE DEFLECTIONS ALLOWED BY ASME B31.9 FOR BUILDING SERVICES PIPING.
4. TRIM EXCESS LENGTH OF CONTINUOUS - THREAD HANGER AND SUPPORT RODS TO 1-1/2".

3.4 PIPE INSULATION INSTALLATION

A. INSULATE FITTINGS AND VALVES WITH PREFORMED INSULATION FITTINGS WITH PVC JACKET.

3.5 VALVE AND SPECIALTIES INSTALLATION

A. PROVIDE DEEP SEAL P-TRAPS FOR FLOOR DRAINS AND MOP BASINS.

B. FOR CLEANOUTS LOCATED IN CONCEALED PIPING, INSTALL CLEANOUT WALL ACCESS COVERS OF TYPES INDICATED, WITH FRAME AND COVER FLUSH WITH FINISHED WALL.

C. PROTECT DRAINS DURING CONSTRUCTION PERIOD TO AVOID CLOGGING WITH DIRT OR DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC OR CONSTRUCTION WORK.

GENERAL DEMOLITION NOTES:

A. WORK SHALL BE PHASED IN SUCH A WAY THAT EXISTING SERVICES SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. WORK SHALL BE RESTRICTED TO THE AREAS BEING DISRUPTED BY THE RENOVATION.

B. WORK MAY BE REQUIRED BEYOND AREA INDICATED IN ORDER TO REMOVE ENTIRETY OF SYSTEMS BEING DEMOLISHED.

C. EXISTING CONDITIONS WERE TAKEN FROM DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.

D. COORDINATE DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

E. GRAY CONTINUOUS LINE EQUIPMENT/FIXTURES TO REMAIN UNLESS OTHERWISE NOTED. DASHED EQUIPMENT TO BE REMOVED UNLESS OTHERWISE NOTED.

F. SURFACES THAT WILL BE EXPOSED IN PROPOSED SCOPE TO BE REPAIRED AND PATCHED ACCORDING TO PROPOSED PLANS.

PLUMBING NOTES:

A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

B. RUN ALL SOIL WASTE AND VENT PIPING WITH 2% MINIMUM GRADE UNLESS OTHERWISE NOTED. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.

C. ELEVATIONS AS SHOWN ON THE DRAWINGS ARE TO THE CENTERLINE OF ALL PRESSURE PIPING AND TO THE INVERT OF ALL GRAVITY PIPING.

D. ADJUST SEWER INVERTS TO KEEP TOPS OF PIPE IN LINE WHERE PIPE SIZE CHANGES.

E. MAINTAIN A MINIMUM OF 3'6" OF GROUND COVER OVER ALL UNDERGROUND WATER MAINS AND A MINIMUM OF 3'0" OF GROUND COVER OVER ALL UNDERGROUND SEWERS AND DRAINS.

F. PROVIDE SHUTOFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES.

G. UNLESS OTHERWISE NOTED, ALL DOMESTIC COLD AND HOT WATER PIPING SHALL BE ½ INCH SIZE.

H. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.

I. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.

J. INSTALL PIPING VALVES FEEDING MULTIPLE FIXTURES AT CONVENIENT CENTRAL LOCATION AND APPROXIMATELY 6"-12" ABOVE FINISHED HARD GYPSUM BOARD CEILINGS FOR EASE OF ACCESS THROUGH SMALLER CEILING ACCESS PANELS.

K. WHERE DOMESTIC COLD AND HOT WATER PIPING DROPS INTO A PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.

L. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.

M. ALL PIPING SHALL CLEAR DOORS AND WINDOWS.

N. ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.

O. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.

P. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.

Q. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.

R. PROVIDE CHAINWHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FLOOR LEVEL; CHAIN SHALL EXTEND TO 7'-0" ABOVE FLOOR LEVEL.

S. PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.

T. UNLESS OTHERWISE NOTED, DRAINS SHALL BE INSTALLED AT THE LOW POINT OF ROOFS, AREAWAYS, FLOORS, ETC.

U. PROVIDE CLEANOUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 50 FEET IN HORIZONTAL RUNS AND ELSEWHERE AS INDICATED.

V. ALL CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPE SIZES 6 INCHES AND SMALLER AND SHALL BE 6 INCHES FOR PIPE SIZES LARGER THAN 6 INCHES.

W. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).

X. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.

Y. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

Z. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON THE DRAWINGS.

AA. PLUMBING CONTRACTOR TO ENSURE THAT VENT STACK ROUTING FOR WALL MOUNTED LAVATORY FIXTURES DO NOT CONFLICT WITH SINK CARRIER INSTALLATION.

PLUMBING NOTES (CONT.):

PLUMBING INSULATION NOTES:

DOMESTIC COLD WATER
ABOVE GRADE: LIGHT DENSITY, FIBERGLASS PIPE INSULATION. ½" THICK, WITH VAPOR BARRIER JACKET.

DOMESTIC HOT WATER
ABOVE GRADE: LIGHT DENSITY, FIBERGLASS PIPE INSULATION, 1" THICK, WITH GLASS CLOTH JACKET.

AT CONTRACTOR'S OPTION FIBERGLASS SNAP ON INSULATION WITH FOAM VAPOR BARRIER MAY BE SUBSTITUTED FOR ABOVE.

DOMESTIC HOT AND COLD WATER PIPING IN PIPE CHASES
SHALL BE INSULATED WITH ½" THICK, 3-1/2"LB. DENSITY FIBERGLASS WITH ALL PURPOSE VAPOR BARRIER JACKET.

EXPOSED SANITARY WASTE PIPING
SHALL BE INSULATED WITH 1-½" THICK,GLASS MINERAL WOOL, WITH ALL PURPOSE VAPOR BARRIER JACKET.

VENT PIPING IN PLENUM RETURN
ALL PVC PIPING WITHIN PLENUM RETURN SPACE SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS AND FSK JACKET.

GENERAL NOTES:

A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

B. CONTRACT DOCUMENT DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.

C. INSTALL ALL PLUMBING EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

D. PROVIDE VIBRATION ISOLATION FOR ALL PLUMBING EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.

E. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS. DO THE SAME FOR SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILER OR PRESSURE REDUCING VALVES.

F. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILERS AND PRESSURE REDUCING VALVES.

G. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.

H. COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.

I. ALL TESTS SHALL BE COMPLETED BEFORE ANY PLUMBING EQUIPMENT OR PIPING INSULATION IS APPLIED.

J. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.

K. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.

L. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.

M. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION.

N. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.

O. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH PIPING, COORDINATE PIPING LAYOUT WITH BEAM OPENING SIZE AND OPENING LOCATIONS. COORDINATION SHALL BE DONE PRIOR TO CUTTING OF PIPING, OR FABRICATION OF BEAMS.

P. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.

Q. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE CONCEALED PLUMBING EQUIPMENT OR VALVES. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.

R. ALL EQUIPMENT, PIPING, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.

S. ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.

T. PLUMBING EQUIPMENT AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.

U. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED. ROOF PENETRATIONS AND FLASHING SHALL BE DONE BY THE ROOFING CONTRACTOR.

V. ALL OPENINGS IN FIRE WALLS DUE TO PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.

W. REFER TO TYPICAL DETAILS FOR PIPING AND EQUIPMENT INSTALLATION.

NOTE: NOT ALL NOTES ON THIS SHEET MAY APPLY TO THIS PROJECT. REFER TO PROJECT PLUMBING FLOOR PLANS FOR SCOPE APPLICABLE TO THIS PROJECT.

No.	Revision/Issue	Date
2	ISSUE FOR PERMIT	02/07/2024
1	ISSUE FOR CLIENT REVIEW	07/26/2023

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Date: 2024.02.29 14:47:01 -05'00'

Date

This item has been electronically signed and sealed by (Licensee, PE) on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.
FAC 61G15-23.004

Project Name and Address
FPL - WALTON ICE MACHINE
1060 SE BRANDON COURT, PORT ST. LUCIE, FL 34952

Sheet Title
PLUMBING SPECIFICATIONS AND NOTES

Project No.	230-83.00
Date	AS NOTED
Scale	AS NOTED
Sheet	P-0.1

PLUMBING LINE LEGEND:

LINE NOTE:
ALL LINE TYPES SHOWN MAY NOT APPEAR IN ALL DRAWINGS. REFER TO PLANS FOR PLUMBING SCOPE.

- SANITARY SEWER PIPING
- GREASE WATER PIPING
- SANITARY VENT PIPING
- COLD WATER PIPING
- HOT WATER PIPING
- HOT WATER RECIRCULATION PIPING
- SOFT WATER PIPING
- FILTERED WATER PIPING
- REVERSE OSMOSIS WATER PIPING
- REVERSE OSMOSIS WATER PIPING SCALE CONTROL
- REVERSE OSMOSIS WATER PIPING NO SCALE CONTROL
- STORM DRAIN PIPING
- OVERFLOW DRAIN PIPING
- CONDENSATE DRAIN PIPING

PLUMBING SYMBOL LEGEND:

SYMBOL NOTE:
ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS SHOWN ARE SCHEMATIC AND MAY NOT BE TO SCALE.

- PIPE ELBOW DOWN
- PIPE ELBOW UP
- PIPE RISE
- PIPE DROP
- PIPE BOTTOM T
- PIPE TOP T
- PIPE STRAIGHT T
- PIPE END CAP
- BP — BACK FLOW PREVENTER
- EQ-1 — EQUIPMENT DESIGNATION
- SK-1 — FIXTURE DESIGNATION
- DISCONNECTION POINT
- CONNECTION POINT
- PIPE BREAK
- UNION
- GLOBE VALVE
- CHECK VALVE
- GATE VALVE
- BALL VALVE
- STRAINER
- PRESSURE REDUCING VALVE
- M — WATER METER
- M — GAS METER
- F — WATER FILTER

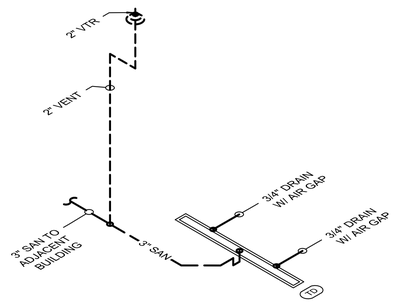
LINE TYPE LEGEND:

NOTE: REFER TO DEMOLITION PLANS FOR NOTES AND REQUIREMENTS.

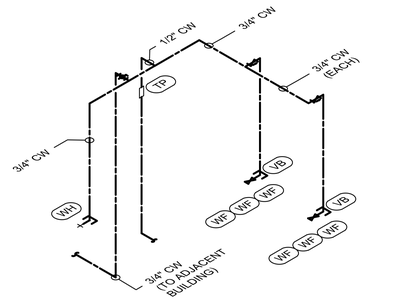
- DASHED LINES INDICATE EXISTING TO BE REMOVED.
- LIGHT DASHED LINES INDICATE EXISTING TO BE REMOVED BUT ARE NOT PART OF DISCIPLINE.
- LIGHT LINES INDICATE EXISTING TO REMAIN.
- DARK LINES INDICATE NEW/RELOCATED OR EXISTING TO BE RELOCATED.

HATCH LEGEND:

- NOT IN SCOPE OF WORK FOR INDICATED DISAPLINE
- NOT IN SCOPE OF CONTRACT
- AREA IN SCOPE OF WORK



SANITARY ISOMETRIC DRAWINGS | SCALE 1/4" = 1'-0"



WATER ISOMETRIC DRAWINGS | SCALE 1/4" = 1'-0"

PLUMBING PIPING SCHEDULE:

SYSTEM	LOCATION	SIZE	PIPE MATERIAL	JOINTS	FITTINGS	HORIZONTAL HANGER SPACING (FT)	VERTICAL SPACING (FT)	NOTES
DOMESTIC COLD AND HOT WATER	ABOVE GRADE	1-1/4" AND SMALLER	TYPE L HARD COPPER	SOLDER	WROUGHT COPPER	6	10	-
		1-1/2" AND LARGER				10	10	-
		1" AND SMALLER	SCHD 40 CPVC	SOLVENT WELD	BUTT FUSION WELDED	3	10	4
		1-1/4" AND LARGER	SCHD 40 CPVC	SOLVENT WELD	BUTT FUSION WELDED	4	10	4
SANITARY SEWER	ALL	1-1/4" AND SMALLER	HUBLESS CAST IRON	HUBLESS	HUBLESS CAST IRON	5	15	1, 2
		1-1/2" AND LARGER	DWV HARD COPPER	SOLDER	CAST BRONZE OR WROUGHT COPPER	10	10	-
		1-1/4"				6	10	-
		ALL	PVC SCHD 40 DWV	SOLVENT WELD	DWV SOCKET	4	10	3, 4

GENERAL NOTES:

A. ALL PRODUCTS USED IN DOMESTIC COLD AND HOT WATER PIPING SYSTEMS MUST BE NSF/ANSI 61 CERTIFIED AND BE LEAD FREE. LEAD FREE PRODUCTS MUST BE LISTED AND LABELED BY A THIRD PARTY AS LEAD FREE SUCH THAT THE WETTED SURFACE MATERIALS HAVE NO MORE THAN 0.25% LEAD CONTENT.
B. INSULATION TO BE FIBERGLASS, POLYMER FOAM, OR ELASTOMERIC PREFORMED PIPE INSULATION WITH SELF SEALING ADHESIVE LAP.
C. DOMESTIC COLD WATER, STORM PIPING, AND CONDENSATE PIPING FIBERGLASS INSULATION MUST HAVE VAPOR RETARDED JACKET, SEAL JOINTS WITH 2" WIDE PRESSURE SENSITIVE VAPOR RETARDED TAPE.
D. INSULATION MUST BE INSTALLED ACCORDING TO MANUFACTURER'S REQUIREMENTS.
E. PIPE HANGING AND SUPPORT COMPONENTS AND METHODS TO BE IN ACCORDANCE WITH ANSI/MSS SP-58-2009.
F. FOR INSULATED PIPING PROVIDE PIPE HANGER INSULATION SHIELD ACCORDING TO HANGER MANUFACTURER.
G. FOR INSULATED PIPING PROVIDE PIPE HANGER INSULATION SHIELD ACCORDING TO HANGER MANUFACTURER.
H. HANGER SPACING DOES NOT APPLY TO UNDERGROUND AND BELOW SLAB PIPING.
I. INSULATION THICKNESS ONLY APPLIES TO DOMESTIC HOT WATER FOR UNDERGROUND AND BELOW SLAB PIPING.
J. HUBLESS CAST IRON JOINTS MUST BE MADE WITH ASTM C1540 HEAVY DUTY SHIELDED COUPLINGS WITH CENTER STOPS.
K. PVC PIPE MUST BE SOLID WALL, FOAM CORE IS NOT PERMITTED.
L. DO NOT USE PVC PIPING IN RETURN AIR PLENUM.
M. DUCTILE IRON AND CAST IRON PIPING MUST HAVE POLYETHYLENE ENCASEMENT WHEN INSTALLED IN CORROSIVE SOILS, VERIFY IN FIELD.

NOTES:

1. AT LEAST 1 ADDITIONAL HANGER IS REQUIRED AT EACH JOINT.
2. 10' HANGER SPACING IS PERMITTED ONLY IF 10' LENGTHS OF PIPE ARE USED.
3. PIPE MATERIAL MAY BE USED WHERE PERMITTED BY AUTHORITY HAVING JURISDICTION.
4. FOR SIZES 2 INCHES AND SMALLER, A GUIDE SHALL BE INSTALLED MIDWAY BETWEEN REQUIRED VERTICAL SUPPORTS. SUCH GUIDES SHALL PREVENT PIPE MOVEMENT IN A DIRECTION PERPENDICULAR TO THE AXIS OF THE PIPE.

MINIMUM PIPE INSULATION THICKNESS:

FLUID OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (IN)				
	CONDUCTIVITY BTU*IN./(H*FT2*°F)	MEAN RATING TEMPERATURE, °F	< 1	1 TO < 1-1/2	1-1/2 TO < 4	4 TO < 8	≥ 8
> 350	0.32 – 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 – 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 – 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 – 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 – 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 – 0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 – 0.26	50	0.5	1.0	1.0	1.0	1.5

NOTES:

1. TABLE INFORMATION GATHERED FROM FLORIDA BUILDING CODE - ENERGY CONSERVATION TABLE C403.2.10
2. FOR PIPING SMALLER THAN 1-1/2 INCHES AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF THESE THICKNESSES BY 1 INCH SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B) BUT NOT TO A THICKNESS LESS THAN 1 INCH.

FIXTURE UNIT LOAD VALUES:

FIXTURE TYPE	OCCUPANCY	CONTROL TYPE	QTY.	FIXTURE UNITS			
				DRAINAGE	WATER SUPPLY		
					COLD	HOT	TOTAL
ICE MACHINE	PRIVATE	3/4" VALVE	2	TO FD	2.50	0.0	2.50
FLOOR DRAIN	PRIVATE / PUBLIC	TRAP PRIMER	2	2.0	0.0	0.0	0.0
WALL HYDRANT	PRIVATE	3/4" VALVE	1	0.0	0.75	0.0	0.75
TOTAL FIXTURE UNIT LOAD VALUES				5	1.25	0	1.25
CORRESPONDING INTERMITTENT USE (GPM)				-	10.5	0	10.5
MINIMUM CORRESPONDING MAIN PIPE SIZE (INCHES)				2"	0.75"	-	0.75"

NOTES:

1. DRAINAGE FIXTURE UNITS BASED ON FLORIDA PLUMBING CODE TABLE 709.1. WATER SUPPLY FIXTURE UNITS BASED ON UNIFORM PLUMBING CODE TABLE E103.3(2).
2. ITEMS IN GRAY ARE EXISTING TO REMAIN OR OUT OF SCOPE OF WORK.
3. CORRESPONDING DOMESTIC WATER PIPE SIZES ARE BASED OFF OF ASSUMED AVERAGE PRESSURE OF ABOUT 5FT/SEC FLOW VELOCITY.

PLUMBING FIXTURE SCHEDULE:

PLAN MARK	DESCRIPTION	BASIS OF DESIGN	TRIM/ACCESSORIES	CONNECTIONS SIZES		
				CW	W	V
VB	VALVE BOX	OATEY 38689	ICE MAKER MACHINE METAL WALL VALVE BOX WITH 1/4 TURN	3/4"	-	-
WF	WATER FILTER	HOSHIZAKI 4HC-H EV9320-53	TRIPLE INLINE WATER FILTER CARTRIAGE SYSTEM TO EACH RELOCATED ICE MACHINE	3/4"	-	-
TD	TRENCH DRAIN	ZURN Z667-ES (7)	6" WIDE MODULAR STAINLESS STEEL TROUGH/TRENCH DRAIN, DEEP SEAL TRAP WITH TRAP PRIMER, PROVIDE 7 EXTENSION SECTIONS	1/2"	3"	2"
TP	TRAP PRIMER	PPP INC. PR-500	CHROME PLATED, DISTRIBUTION UNIT, SERVICE VALVE	1/2"	-	-
WH	WALL HYDRANT	WOODFORD B65	ANTI-SIPHON FREEZELESS WALL HYDRANT.	3/4"	-	-

PIPE MATERIALS:

CONDITION/LOCATION	MATERIAL TYPE
ABOVE GROUND WATER	TYPE "L" COPPER
BELOW GROUND WATER	TYPE "K" COPPER
WASTE (UNDER 2")	TYPE "M" COPPER
WASTE (ABOVE 2")	CAST IRON
WASTE (NON PLENUM RATED)	SCHEDULE 40 PVC PLASTIC
VENT (NON PLENUM RATED)	SCHEDULE 40 PVC PLASTIC
VENT (UNDER 2")	TYPE "M" COPPER
VENT (ABOVE 2")	CAST IRON
GAS PIPING	SCHEDULE 40 WROUGHT IRON
CONDENSATE PIPING	SCHEDULE 40 WROUGHT IRON

SLOPE OF HORIZONTAL DRAINAGE PIPE:

SIZE(INCHES)	MINIMUM SLOPE (INCHES PER FOOT)
2-1/2 OR LESS	1/4
3 TO 6	1/8
8 OR LARGER	1/16

NOTE: TABLE INFORMATION GATHERED FROM FBC/P TABLE 909.1

MAXIMUM DISTANCE OF FIXTURE TRAP FROM VENT:

SIZE OF TRAP (INCHES)	SLOPE (INCHES PER FOOT)	DISTANCE FROM TRAP (FEET)
1-1/4	1/4	5
1-1/2	1/4	6
2	1/4	8
3	1/8	12
4	1/8	16

NOTE: TABLE INFORMATION GATHERED FROM FBC/P TABLE 909.1

PIPING VOLUME AND MAXIMUM PIPING LENGTHS:

PIPE SIZE (INCHES)	VOLUME (OZ/FT)	MAX. PIPING LENGTH (FEET)	
		PUBLIC LAVATORY	OTHER FIXTURES
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2.0	1	32
3/4	3.0	0.5	21

NOTE: TABLE INFORMATION FROM FBC/EC TABLE C404.5.1

WATER HAMMER ARRESTOR SCHEDULE

PDI SIZE	A	B	C	D	E	F
WSFU	1-11	12-32	33-60	61-113	114-154	155-330
CONNECTION	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"

MIN. SIZES AND MAX. FLOW RATES OF FIXTURE WATER SUPPLY PIPES:

FIXTURE (1)	MIN. PIPE SIZE (INCH)	MAX. FLOW RATE
DRINKING FOUNTAIN	3/8	-
HOSE BIBBS	1/2	-
WALL HYDRANT	1/2	-

NOTES:

1. INFORMATION GATHERED FROM FBC/P TABLE 604.5
2. WHERE THE DEVELOPED LENGTH OF THE DISTRIBUTION LINE IS 50 FEET OR LESS, AND THE AVAILABLE PRESSURE AT THE METER IS 35 PSI OR GREATER, THE MINIMUM SIZE OF AN INDIVIDUAL DISTRIBUTION LINE SUPPLIED FROM A MANIFOLD AND INSTALLED AS PART OF A PARALLEL WATER DISTRIBUTION SYSTEM SHALL BE ONE NOMINAL TUBE SIZE SMALLER THAN THE SIZES INDICATED.

No.	Revision/Issue	Date
2	ISSUE FOR CLIENT REVIEW	07/26/2023
1	ISSUE FOR PERMIT	02/07/2024

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FAC 61G15-23.004

Project Name and Address
FPL - WALTON ICE MACHINE
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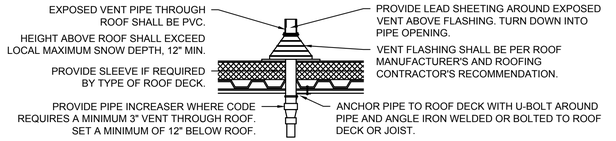
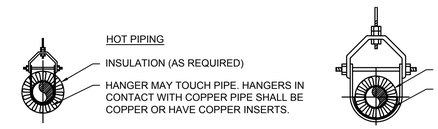
Sheet Title
PLUMBING LEGEND AND SCHEDULES

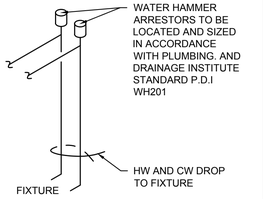
Project No.	Sheet
230-83.00	P-0.2
Date: AS NOTED	
Scale: AS NOTED	



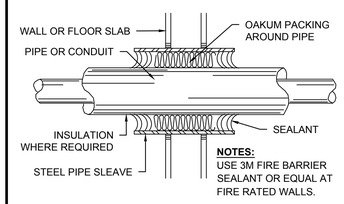
VENT THROUGH ROOF DETAIL | SCALE N.T.S. | 1



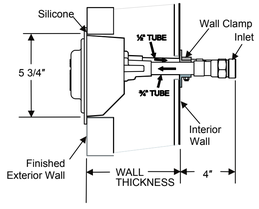
INSULATION PIPING PROTECTION DETAIL | SCALE N.T.S. | 2



WATER HAMMER | SCALE N.T.S. | 3



WALL PENETRATION DETAIL | SCALE N.T.S. | 4



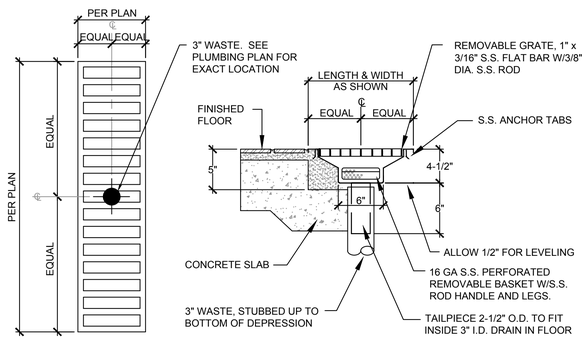
INSTALLATION NOTES:

1. THE TOP BOX FLANGE MUST BE INSTALLED IN THE HORIZONTAL POSITION AND LEVEL. DO NOT INSTALL IN VERTICAL POSITION.
2. INSTALL ADJUSTABLE WALL CLAMP OVER WATER TUBES AND SLIDE SNUG TO INTERIOR WALL.
3. THE OPERATING STEM AIR VENT MUST NOT BE PLUGGED TO ENSURE PROPER DRAINING.

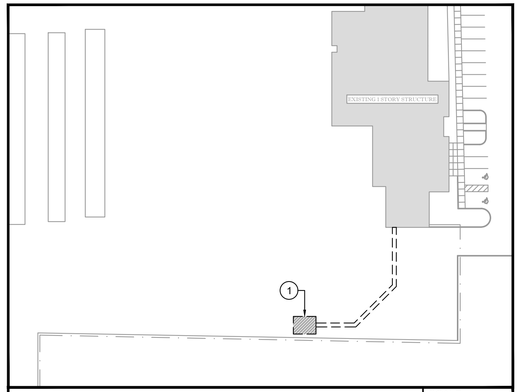
GENERAL NOTE:
PROPER DRAINAGE IS BUILT INTO HYDRANT:

- (½" TUBE MUST SLOPE DOWN TOWARD INLET.)
- (¾" TUBE MUST BE LEVEL.)

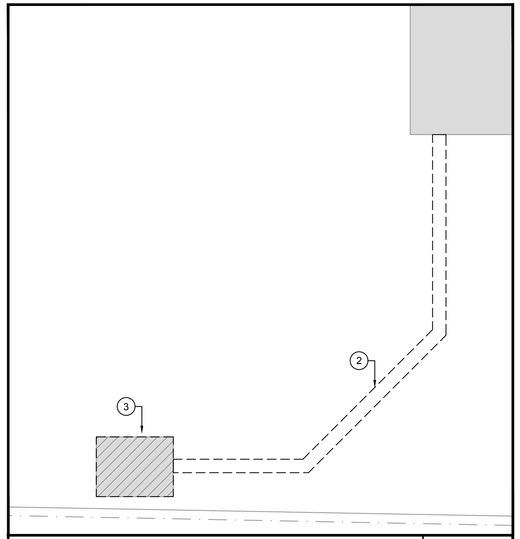
WALL HYDRANT DETAIL | SCALE N.T.S. | 5



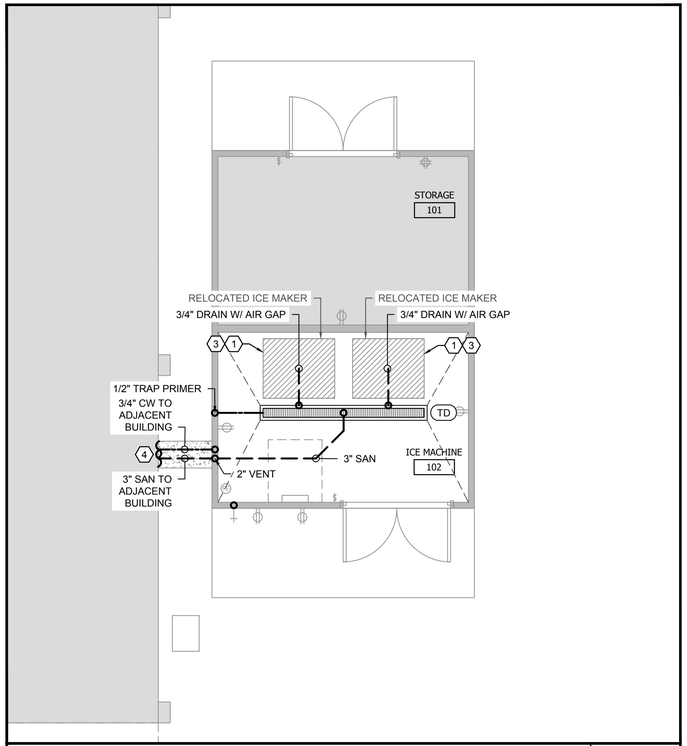
DRAIN TROUGH DETAIL | SCALE N.T.S. | 6



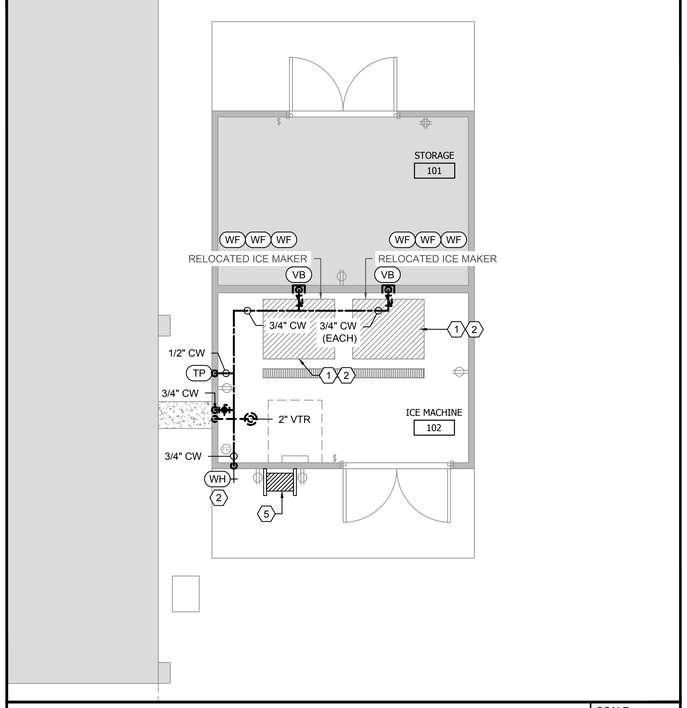
PLUMBING DEMOLITION PLAN - OVERALL SITE | SCALE N.T.S.



PLUMBING DEMOLITION PLAN - ENLARGED | SCALE 1/16" = 1'-0"



PLUMBING PROPOSED FOUNDATION PLAN | SCALE 1/4" = 1'-0"



PLUMBING PROPOSED FLOOR PLAN | SCALE 1/4" = 1'-0"

SHEET NOTES:

EXISTING PLUMBING CONDITIONS SUCH AS FIXTURES AND PIPING WERE GATHERED FROM EITHER PARTIAL AVAILABLE AS-BUILTS OF PREVIOUS BUILDING PROJECTS OR LIMITED PHYSICAL VISIBILITY FROM FIELD/SITE VISITS.

PLUMBING CONTRACTOR TO CONFIRM EXISTING DESIGN CONDITIONS ARE AS DRAWN AND PROVIDE MARKUPS OF ANY DISCREPANCIES ARE FOUND AND FOR FINAL CLIENT RECORD DRAWINGS.

ALL NEW PIPING PENETRATIONS THROUGH EXISTING STRUCTURAL ROOF, FLOOR, OR WALL ARE TO BE CLOSELY COORDINATED WITH STRUCTURAL CONDITIONS. NEW DIMENSIONS NOTED ARE PIPE SIZES, CUT AND SUPPORT ENVELOPE OPENING ACCORDINGLY. PERFORM GPR SCAN / X-RAY FLOOR SLAB PRIOR TO CORE-DRILLING. SUBMIT RESULTS FOR ENGINEER REVIEW PRIOR TO POKE THRU DEVICE SUBMITTAL REVIEW.

PLUMBING CONTRACTOR TO INVESTIGATE EXISTING CONDITIONS TO CONFIRM PROPOSED DESIGN IS ABLE TO BE MET WHERE EXISTING PLUMBING PIPING IS TO BE REUSED. CONTRACTOR TO INFORM EOR OF ANY ISSUES WITH MEETING PROPOSED SANITARY/WATER FLOW.

ISOMETRIC DIAGRAM NOTE:

LOCATION OF ALL EXISTING PIPING AND FIXTURES NOT SHOWN. CONTRACTOR TO FIELD-VERIFY SIZE, TYPE, AND CONDITION OF EXISTING PIPING FOR REUSE.

SCHEMATIC REPRESENTATION ONLY, REFER TO ARCHITECTURAL PLANS FOR PLUMBING FIXTURE PLANS AND ELEVATIONS.

DEMO PLAN SHEET NOTES:

1. **DEMOLISHED ICE ROOM:** EXISTING ICE MACHINE BUILDING WILL BE REMOVED IN ITS ENTIRETY.
2. **CAP WATER:** PLUMBING CONTRACTOR TO CUT AND CAP THE DOMESTIC COLD WATER LINES TO THE ICE MACHINES AT THE NEAREST EXISTING MAIN.
3. **RELOCATE REEL:** UNINSTALL EXISTING WALL MOUNTED HOSE REEL, SALVAGE AND PROTECT FOR RELOCATION TO USE AT NEW BUILDING.

PROPOSED PLAN SHEET NOTES:

1. **RELOCATED ICE MACHINE:** INSTALL SALVAGED ICE MACHINE FROM FPL CLIENT TO NEWLY DESIGNATED BUILDING.
2. **WATER CONNECTIONS:** ROUTE DOMESTIC COLD WATER TO RELOCATED ICE MACHINES AND NEW WALL HYDRANT. PROVIDE WALL VALVE BOX WITH BACKFLOW PREVENTER TO ICE MACHINE TRIPLE INLINE FILTRATION SYSTEM.
3. **DRAIN CONNECTIONS:** ROUTE DRAIN LINE FROM RELOCATED ICE MACHINES TO NEW TRENCH DRAIN WITH AIR GAP. SLOPE FLOOR FINISHES TO DRAIN AND CONNECT WATER TO TRAP PRIMER.
4. **UTILITY CONNECTIONS:** PLUMBING CONTRACTOR TO INVESTIGATE SHORTEST POSSIBLE DOMESTIC WATER AND SANITARY PIPE ROUTING TO EXISTING MAINS LOCATED NEAR ADJACENT BUILDING RESTROOMS A MINIMUM OF 25' AWAY.
5. **HOSE REEL:** REINSTALL EXISTING HOSE REEL SALVAGED FROM ORIGINAL ICE MACHINE LOCATION AND INSTALL AT NEW HOSE BIB.

No.	Revision/Issue	Date
2	ISSUE FOR CLIENT REVIEW	07/28/2023
1	ISSUE FOR PERMIT	02/07/2024

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Date

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Project Name and Address
FPL - WALTON ICE MACHINE
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Sheet Title
MECHANICAL
PROPOSED PLANS
AND DETAILS

Project No.	230-83.00
Date	AS NOTED
Scale	AS NOTED
Sheet	P-1.1