PLUMBING LEGEND

120 HOT WATER SUPPLY	DHW
HOT WATER RETURN	HWR
COLD WATER SUPPLY	DCW
SANITARY	SAN
KITCHEN GREASE SANITARY	GW
STORM	ST
STORM OVERFLOW	OF
VENT PIPING	VENT
CONDENSATE	C
ELBOW, TURNED DOWN	DN
ELBOW, TURNED UP	UP
ELBOW, 90°	
CONNECTION, TOP	
CONNECTION, BOTTEM	
CONNECTION, SIDE	
CAP, AIR AND WATER TIGHT	
VENT THROUGH ROOF	VTR
RECIRCULATION PUMP	RCP.#
CHECK VALVE / BACKFLOW PREVENTOR	
BALL VALVE	
FLOW CONTROL VALVE	
WATER METER	M
PRESSURE REGULATOR	R
SOLENOID SHUTOFF VALVE	
HOSE BIBB WITH VACUUM BREAKER	HB.#
AIR ADMITTANCE VALVE (BOD: STUDOR)	AAV
UNION	
WALL CLEANOUT	WCO
FLOOR CLEANOUT	FCO
FLOOR DRAIN	FD
FLOOR SINK	FS
EXISTING SYSTEM PIPING	EX ###
TO BE DEMOLISHED	EX.###
DEMOLITION KEYNOTE	#
RENOVATION KEYNOTE	#
CONNECT TO EXISTING	
LIMITS OF DEMOLITION	
ACCESS PANEL	AP
MIN. INVERT ELEVATION	MIN. I.E. 36" B.F.F.

ALL MAY NOT APPLY

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AFF	ABOVE FINISHED FLOOR
AHAP	AS HIGH AS POSSIBLE
BFP	BACK FLOW PREVENTOR
BF	BELOW FLOOR
BFF	BELOW FINISHED FLOOR
BG	BELOW GRADE
BOD	BASIS OF DESIGN
C	CONDENSATE
CO	CLEAN OUT
CWV	COMBINATION WASTE AND VENT
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DN	DOWN
ECO	EXTERIOR CLEANOUT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FC	FLOW CONTROL VALVE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HUB DRAIN
HWR	HOT WATER RETURN
IE	INVERT ELEVATION
IM	ICE MAKER VALVE BOX
IRP	IN-LINE RECIRCULATION PUMP
L	LAVATORY
MS	MOP SINK
PF	PLUMBING FIXTURE
SAN	SANITARY WASTE
SH	SHOWER
SK	STAINLESS STEEL SINK
TYP	TYPICAL
TMV	THERMOSTATIC MIXING VALVE
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTER
WHY	FREEZE PROOF WALL HYDRANT
WMB	WASH MACHINE BOX
XT	EXPANSION TANK

POTABLE WATER

1.ALL POTABLE WATER PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH THE PLUMBING CODE AND VERIFIED BY WRITTEN REPORT FROM THE STATE BOARD OF HEALTH.

2.ALL PLUMBING PIPING SHALL BE CONCEALED IN FLOORS, WALLS, OR ABOVE CEILINGS AS APPLICABLE EXCEPT AT IMMEDIATE FIXTURE.

3.PROVIDE HANGERS FOR SUPPLY PIPING AT A MAXIMUM SPACING OF 3 FEET.

4.PROVIDE WATER HAMMER ARRESTORS AT EACH FIXTURE, QUICK CLOSING VALVE, OR BATTERY OF FIXTURES WHERE REQUIRED AND PER FBC-P 604.9. ARRESTORS SHALL BE FACTORY FABRICATED. SIZED PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I WH-201. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER HAMMER ARRESTORS AS SPECIFIED.

5.BALL VALVES 1/4" THRU 2" SHALL BE TWO PIECE - 600 WOG, TEFLON SEATS, ANSI 316 STAINLESS STEEL BALL AND STEM (EXTENSION STEM ON INSULATED HOT WATER AND TEMPERED HOT WATER), BRONZE BODY WITH THREADED OR SOLDER ENDS.

6.DURING CONSTRUCTION ALL PRESSURE PIPING SYSTEMS SHALL RECEIVE A HYDROSTATIC TEST OF 1-1/2 TIMES THE OPERATING PRESSURE FOR A PERIOD OF NOT LESS THAN EIGHT (8) HOURS. NO LEAKAGE EVIDENT DURING THE TEST PERIOD IS ALLOWED. NOTIFY THE ARCHITECT AND ENGINEER OF RECORD 24 HOURS IN ADVANCE OF ANY TESTING SO THAT THEY MAY OBSERVE IF THE NEED IS CALLED FOR. PIPING SYSTEMS, EQUIPMENT, SPECIALTIES, PUMPS, TRAPS, VALVES, STRAINERS, ETC. SHALL BE INSPECTED AND TESTED FOR PROPER FUNCTIONALITY AT THE CONCLUSION OF CONSTRUCTION AND ANY LEAKAGE OR MALFUNCTIONS SHALL BE REPAIRED.

7.PROVIDE ISOLATION AND ASSE1024 DUAL CHECK BACKFLOW PREVENTION BEFORE AND BEVERAGE CONNECTION, CARBONATED DEVICE(ASSE1022), STERILIZATION EQUIPMENT, AND ICE MACHINE SUPPLY, PER FBC-P608.3 AND 608.17.

8.MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED.

9.ALL PRESSURE PIPING SHALL BE INSTALLED ABOVE CEILING AND IN WALLS UNLESS NOTED OTHERWISE.

10.BELOW GRADE

10.1.PIPING SHALL BE COATED WITH HEAVY TROWEL GRADE LION OIL CO. NOKORODE SEALKOTE OR APPROVED EQUAL.
10.2.UNDERGROUND SERVICE PIPING SHALL BE COPPER TUBING.

11.PIPING SPECIFICATIONS

11.1.ABOVE GRADE DOMESTIC COLD WATER SUPPLY PIPING SHALL BE HIGH IMPACT CPVC WITH SOLVENT WELD FITTINGS.

11.1.1.PROVIDE TRANSITION FITTINGS AS REQUIRED TO INSTALL VALVES, FIXTURE STOPS, EQUIPMENT AND OTHER COMPONENTS.
11.1.2.ALL PIPES AND FITTINGS SHALL CONFORM TO ASTM 1784.

11.2.PIPING LOCATED IN RETURN AIR PLENUMS SHALL BE TYPE L HARD COPPER TUBE OR CPVC WITH 1" THICK FIRE WRAP INSULATION SEALED TO PROVIDE FS/SD=25/50.

11.3.EXPOSED PIPING SHALL BE TYPE L HARD COPPER TUBE PAINTED TO MATCH ADJACENT ARCHITECTURAL SURFACE.

12.INSULATION SPECIFICATIONS

12.1.INSULATE COLD WATER SUPPLY PIPING IN EXTERIOR WALLS AND ATTIC AS WELL AS ALL HOT WATER WITH 1" IMCOLOCK PRE-SLIT, PRE-GLUED INSULATION. INSULATE FITTINGS WITH MITERED CUT PIECES OF IMCOLOCK, 1" INSULATION.

12.2.THERE SHALL BE NO EXPOSED HOT WATER SUPPLY PIPING EXCEPT WITHIN MECHANICAL OR EQUIPMENT ROOMS.

12.3.PIPING UNDER HANDICAPPED LAVATORIES SHALL BE INSULATED PER AMERICANS WITH DISABILITIES ACT WITH FACTORY FABRICATED SEAMLESS MICROBIAL PVC RESIN INSULATION.

13.EXPOSED PIPING

13.1.ALL EXPOSED PIPING SHALL BE COORDINATED WITH OTHER ABOVE-CEILING SYSTEMS SAND ROUTED TO AVOID CONFLICTS EVEN IF ITS ROUTING IS DIFFERENT THAN THAT WHICH IS SHOWN ON THESE PLANS.

13.2.ALL EXPOSED PIPING SHALL BE INSTALLED NEAT AND ORDERLY. PAINT TO MATCH ADJACENT ARCHITECTURAL SURFACE OR AS DIRECTED BY ARCHITECT.

CODE REFERENCE (ALL MAY NOT APPLY)

THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED:

IBC, BUILDING INTERNATIONAL BUILDING CODE 2024

IBC, PLUMBING INTERNATIONAL BUILDING CODE 2024

IBC, EXISTING BUILDING INTERNATIONAL BUILDING CODE 2024

IBC, FUEL GAS INTERNATIONAL BUILDING CODE 2024

IBC, ENERGY CONSERVATION INTERNATIONAL BUILDING CODE 2024

FFPC INTERNATIONAL FIRE PREVENTION CODE, 2020 2018

NFPA 54 NATIONAL FUEL GAS CODE

NFPA 101 LIFE SAFETY CODE

NFPA 101A GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY

NFPA 101B CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES

NFPA 900 BUILDING ENERGY CODE

ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS

ANSI AMERICAN NATIONAL STANDARDS INSTITUTE

ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS

ADA AMERICAN WITH DISABILITIES ACT

UL UNDERWRITERS LABORATORIES

THESE CODE AND STANDARDS SHALL BE CONSIDERED A MINIMUM REQUIREMENT. THE CONTRACTOR SHALL NOT RELIEVED FROM PROVIDING HIGHER GRADE MATERIALS, PRODUCTS AND WORKMANSHIP WHICH MAY BE SPECIFIED WITHIN THESE DOCUMENTS.

CODE REFERENCES SHALL INCLUDE 2020 AND 2022 ADMENDMENTS TO CONFORM TO GEORGIA COMMUNITY AFFAIRS AND LOCAL GOVERNMENT REQUIREMENTS.

INTERIOR CLEANOUT SCHEDULE

LOCATION	TYPE	JR SMITH M#
FLOOR (FCO) (CAST IRON BODY, BRONZE PLUG, NICKEL BRONZE TOP)		4028C
WALL (WCO) (CAST IRON BODY, BRONZE PLUG STAINLESS STEEL COVER)		4532S
EXPOSED (TCO) (CAST IRON BODY, BRONZE PLUG, THREADED CAP)	HORIZONTAL VERTICAL	4400C 4512S

EXTERIOR CLEANOUT SCHEDULE

	TYPE	JR SMITH M#
ONE WAY(CAST IRON BODY, BRONZE PLUG, CAST IRON TOP TAPER THREAD)		4223L
TWO WAY (CAST IRON BODY, BRONZE PLUG, CAST IRON TOP TAPER THREAD)		4223L

WATER HAMMER ARRESTOR SCHEDULE

FIXTURE UNIT	1-11	12-32	33-60	61-113	114-154	155-330
JR SMITH M#	5005	5010	5020	5030	5040	5050

SUBMITTAL REQUIREMENTS

1.USE OF AN APPROVAL STAMP ON SUBMITTAL DOCUMENTS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS.

2.THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTAL ITEMS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTAL ITEMS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.

3.CONTRACTOR SHALL SUPPLY TO THE ARCHITECT SUBMITTALS ON THE FOLLOWING WHERE APPLICABLE (ALL MAY NOT APPLY):

3.1.PLUMBING FIXTURES
3.2.PIPE AND FITTINGS
3.3.INSULATION MATERIALS
3.4.PLUMBING ACCESSORIES AND SPECIALITIES
3.5.VALVES
3.6.HOT WATER HEATER

ENERGY SYSTEMS - WATER HEATING

1.SERVICE WATER HEATING EQUIPMENT SHALL ALLOW LAVATORY OUTLET TEMPERATURES IN PUBLIC FACILITY RESTROOMS SHALL BE LIMITED TO 110°F. CONTROL BY TMV.

2.WATER-HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OUTLINED IN FBC CHAPTER 4, TABLE C404.2 AND THE EFFICIENCY SHALL BE VERIFIED THROUGH DATA FURNISHED BY THE MANUFACTURER THROUGH CERTIFICATION UNDER AN APPROVED CERTIFICATION PROGRAM.

3.ALL HOT WATER SUPPLY AND RECIRCULATION PIPING IN THE HOT WATER SYSTEM SHALL BE INSULATED WITH MINIMUM 1IN OF INSULATION HAVING A CONDUCTIVITY OF 0.27 (BTU / IN / H X FT^2 X °F).

4.CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE TURNED OFF EITHER AUTOMATICALLY OR MANUALLY WHEN THERE IS LIMITED HOT WATER DEMAND. READY ACCESS SHALL BE PROVIDED TO THE OPERATING CONTROLS.

5.FOR NON-CIRCULATING STORAGE WATER TANKS HEAT TRAPS MUST BE INSTALLED ON THE SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH THE EQUIPMENT.

6.CONDENSER HEAT RECOVERY SHALL BE INSTALLED FOR HEATING OR REHEATING OF SERVICE HOT WATER, PROVIDED THE FACILITY OPERATES 24 HOURS A DAY, THE TOTAL HEAT CAPACITY OF WATER-COOLED SYSTEMS EXCEEDS 6,000,000 BTU/HR OF HEAT REJECTION, AND THE DESIGN SERVICE WATER HEATING LOAD EXCEEDS 1,000,000 BTU/HR. THE HEAT RECOVERY SHALL PROVIDE THE SMALLER OF EITHER: 60% OF THE PEAK HEAT REJECTION LOAD AT DESIGN CONDITIONS, OR PROVIDE THE PREHEATING REQUIRED TO RAISE THE PEAK SERVICE HOT WATER DRAW TO 85°F.

PLUMBING GENERAL NOTES

1.LOCATIONS OF ANY WASTE AND SUPPLY PIPING SHOWN ARE ONLY APPROXIMATE. THE PLUMBING CONTRACTOR SHALL VERIFY THESE LOCATIONS BEFORE PROCEEDING WITH WORK.

2.ALL PLUMBING PIPE SHALL BE RUN STRAIGHT, SQUARE, AND LEVEL. NO SAGGING OF PLUMBING PIPING SHALL BE ACCEPTED.

3.ALL DRAINAGE PIPING 3" AND LARGER SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT, PIPING 2-1/2" AND SMALLER SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED.

4.VENT PIPING SHOWN ON FLOOR PLAN IS ONLY INDICATIVE EXCEPT FOR VTR LOCATIONS.

5.CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.

6.VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE LINE IN WHICH THEY ARE INSTALLED.

7.ALL WATER SANITARY WASTE, VENT AND SUPPLY PIPING SHALL BE INSTALLED AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGE IN SIZING.

8.SEE ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, DIMENSIONS AND ADDITIONAL REQUIREMENTS NOT COVERED ON THESE DRAWINGS.

9.PIPING SHALL NOT BE RUN ABOVE ELECTRICAL OR SERVER EQUIPMENT, COORDINATE WITH FIELD CONDITIONS.

10.DO NOT PENETRATE WALL FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES. WHERE ABSOLUTELY NECESSARY, ALL PIPES PENETRATING BEARING WALL OR FOOTING MUST BE SLEEVED AND IN A LOCATION APPROVED BY THE STRUCTURAL ENGINEER.

11.CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES OR ALL FIXTURES INCLUDED IN THESE CONTRACT DOCUMENTS.

12.WALL BRACKETS, HANGERS, SUPPORTS, ETC. SHALL BE PROVIDED WHERE REQUIRED IN ACCORDANCE WITH THE BEST STANDARD PRACTICE OF THE TRADE AND AS PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED TO TRANSMIT LOADS TO THE MAIN STRUCTURE WHERE REQUIRED. CPVC PIPING SUPPORTS SHALL BE 3'-0" ON CENTER FOR 1/2" THRU 1" AND 4'-0" ON CENTER FOR 1-1/2" AND LARGER. ALL EXPOSED SUPPORTS SHALL BE HOT DIPPED GALVANIZED OR FIBERGLASS REINFORCED "UNISTRUT" TYPE INCLUDING HARDWARE.

13.POWER WIRING, PANELS, TRANSFORMERS, AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL CONTROL WIRING, RELAYS, AND PANELS SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. ALL MOTOR STARTERS REQUIRED FOR ANY PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

14.INSTALL ACCESS PANELS (MINIMUM 18x18) WHERE EQUIPMENT REQUIRING ACCESS RESIDES ABOVE AN INACCESSIBLE CEILING TYPE.

15.ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, CLEANOUTS, ETC., CONCEALED IN WALLS SHALL BE PROVIDED WITH AN ACCESS PANEL, ZURN MODEL ZN-1460 OR APPROVED EQUAL.

16.ALL CONCEALED PIPING IN CHASE AREAS SHALL BE SUPPORTED WITH A PIPING SUPPORT SYSTEM, SUMNER POSIFIX, STAKFIX AND CHANNEL OR APPROVED EQUAL.

17.PURGE, CLEAN, DISINFECT & TEST WATER PIPING SYSTEMS. SUBMIT REPORT & WATER SAMPLES TO A.H.J. USE PROCEDURE PRESCRIBED BY A.H.J., OR IF METHOD NOT PRESCRIBED USE AWWA C651 OR AWWA C652.

18.CONTRACTOR SHALL INSTALL WATER HAMMER ARRESTORS AT ALL QUICK CLOSING VALVES. REFER TO FPC 604.9.

CONDENSATE, SANITARY WASTE AND VENT

1.GRAVITY FLOW SYSTEMS HAVE SPACE PRIORITY FOR SLOPING PIPES.

2.SLOPING PIPES SHALL BE STARTED AT THE HIGHEST POINT POSSIBLE.

3.ALL SOIL, WASTE, AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND LOCAL PERMITTING AUTHORITIES REQUIREMENTS.

4.THE GENERAL CONTRACTOR SHALL VERIFY ALL FLOOR DRAIN AND WATER SUPPLY LOCATIONS BEFORE POURING SLABS.

5.CONDENSATE, SANITARY AND VENT PIPING SHALL BE COLLECTED AND TERMINATED AT A POINT SHOWN ON THE DRAWINGS.

5.1.PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONDENSATE PIPES AFTER AIR UNIT TRAP, MECHANICAL CONTRACTOR RESPONSIBLE FOR FIRST 12" OF CONDENSATE AND TRAP.

6.INVERT SHOWN ON PLANS IS AN ESTIMATE OF MINIMUM INVERT CALCULATED USING ENGINEERING ESTIMATES OF SLOPE, FITTING DIMENSIONS AND OTHER FACTORS THAT MAY NOT MATCH THE EXACT FIELD CONDITIONS. DUE DILIGENCE HAS BEEN PUT FORTH TO COORDINATE THIS WITH THE SITE CONNECTIONS BUT IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL SITE CONNECTION INVERT AND ITS CONNECTION TO THE BUILDING SERVICE PIPING. ANY ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR PRIOR TO COMMENCING WITH INSTALLATION OF UNDERGROUND PIPING.

7.WHEN REQUIRED BY CODE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL AN AIR GAP SERVING INDIVIDUAL FIXTURES, DEVICES, OR APPLIANCES.

8.ALL SANITARY WASTE LINES SHALL BE INSTALLED UNDER THE FLOOR SLAB, UNLESS OTHERWISE NOTED. VENT PIPING SHALL BE INSTALLED ABOVE CEILING AND IN WALLS UNLESS NOTED OTHERWISE.

9.FLOOR DRAIN TRAPS SHALL BE DEEP SEAL (MIN. 4"). FURNISH AND INSTALL TRAP PRIMERS, WHERE INDICATED, OR IF LOCAL CODES REQUIRE THEM. VERIFY AND INCLUDE IN BID. PER FBC-P 1002.4 ANY TRAPPED FIXTURE SUBJECT TO EVAPORATION SHALL BE FURNISHED WITH 1/2" TRAP PRIMER CONNECTION TO NEAREST DCW WATER SUPPLY LINE, WITH VALVE CONFORMING TO ASSE1018. USE SELF SEAL RUBBER TYPE THAT CONFORM TO ASSE1044 FOR REMOTE DRAINS THAT ARE OVER 20' FROM THE WATER SUPPLY.

10.SIZE AND LOCATION OF CLEANOUTS SHALL BE IN ACCORDANCE WITH FLORIDA PLUMBING CODE AND ALL JURISDICTIONAL REGULATIONS.

11.PIPING SPECIFICATIONS

11.1.CONDENSATE, DOMESTIC WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC/DWV PIPE WITH SOLVENT WELD DRAINAGE FITTINGS CONFORMING TO ASTM D-2665.

11.2.VENT PIPING SHALL BE MINIMUM OF 2", UNLESS NOTED OTHERWISE.

11.3.PIPING INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE CAST IRON WITH HUB AND SPIGOT FITTINGS OR PVC PIPING WITH 1/2" THICK FIRE WRAP INSULATION SEALED TO PROVIDE FS/SD=25/50.

11.4.UNLESS NOTED OTHERWISE, ASSUME ALL COMBINED DISCHARGE CONNECTIONS ARE WYE TYPE.

12.EXPOSED PIPING

12.1.ALL EXPOSED PIPING SHALL BE COORDINATED WITH OTHER ABOVE-CEILING SYSTEMS AND ROUTED TO AVOID CONFLICTS EVEN IF ITS ROUTING IS DIFFERENT THAN WHAT IS SHOWN ON THESE PLANS.

12.2.ALL EXPOSED PIPING SHALL BE INSTALLED NEAT AND ORDERLY. PAINT TO MATCH ADJACENT ARCHITECTURAL SURFACE OR AS DIRECTED BY ARCHITECT.

GENERAL NOTES

1.THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.

2.THE SUB CONTRACTOR ASSUMES RESPONSIBILITY FOR THE USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE THEMSELVES AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND OR PROJECT CONDITIONS.

3.THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER OF RESPONSIBLE CHARGE OF THE GIVEN DISCIPLINE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.

4.CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE SUB CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.

5.ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE SUB CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD.

6.PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING OR OTHER WALL MOUNTED FURNISHINGS.

7.PLANS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO SHOW THE GENERAL SCOPE OF THE WORK TO BE PERFORMED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.

8.DUE TO THE SMALL SCALE OF THE DRAWINGS, AND TO UNFORESEEN JOB CONDITIONS, ALL REQUIRED OFFSETS, TRANSITIONS AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AT NO ADDITIONAL COST.

9.THE SUB CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT TO ENSURE THE EQUIPMENT SPECIFIED WILL WORK FOR THE SPACES PROVIDED. FINAL DIMENSIONS OF SYSTEMS SHOWN ON THESE PLANS SHALL BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS TO FIT IN SPACES PROVIDED AND AT NO COST TO THE OWNER.

10.THE SUB CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED TO BRING INTO THE BUILDING AND EQUIPMENT ROOMS.

11.ALL WORK PERFORMED AS PART OF THIS PROJECT SHALL BE PERFORMED BY EXPERIENCED TRADESMEN, TRAINED, EXPERIENCED, AND SKILLED IN THE TASKS INCIDENTAL TO THE PROJECT.

12.ALL WORK SHALL COMPLY WITH APPLICABLE OSHA AND EPS REGULATIONS AND GUIDELINES.

13.THE SUB CONTRACTOR PERFORMING WORK ON THIS PROJECT WILL BE RESPONSIBLE FOR REGULARLY CLEANING THE WORK AREA OF ANY DEBRIS ASSOCIATED WITH THE WORK BEING PERFORMED. THE SITE SHALL BE CLEAN OF ALL CONSTRUCTION DEBRIS AT THE COMPLETION OF THE JOB, BEFORE FINAL PAYMENT IS MADE.

14.REASONABLE PRECAUTIONS SHALL BE MADE FOR SAFETY AND HEALTH INCLUDING BUT NOT LIMITED TO WARNING SIGNS, SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS.

15.COORDINATE ALL DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUB CONTRACTOR SHALL PROVIDE GENERAL CONTRACTOR A FULL CONSTRUCTION SCHEDULE.

16.SUB CONTRACTOR SHALL BE HELD TO PROVIDED SCHEDULE. THEY SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WORK IN THE TIME INDICATED.

17.THE SUB CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS. THE LOCATION OF STORAGE SHALL BE RESTRICTED SPECIFICALLY TO THE AREA ALLOTTED BY THE OWNER.

18.ALL ITEMS INSTALLED UNDER THE SCOPE OF THIS PROJECT SHALL BE NEW, CLEAN, AND FREE OF DEFECTS.

19.IF DRAWING CHANGES ARE NEEDED FOR INSPECTION DUE TO FIELD CHANGES MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL OF THE ENGINEER AND AGREED UPON TERMS, THEN THE SUB CONTRACTOR SHALL PAY HOURLY RATES TO THE ENGINEER OF RECORD FOR MAKING NECESSARY CHANGES.

20.SUPPORTS, HANGERS, WIRING AND PIPING SHALL BE INSTALLED IN A NEAT FASHION AND IN AN ORDERLY APPEARANCE.

21.ALL ROOF EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST A 120 MPH WIND LOAD.

22.PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.

23.SUB CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL PARTITIONS LABELED WITH A SPECIAL LISTING ON THE ARCHITECTURAL PLANS. THIS INCLUDES FIRE, SMOKE ACOUSTICAL AND OTHER UL WALL OR CEILING ASSEMBLIES.

24.STRUCTURAL PENETRATIONS INCLUDING BUT NOT LIMITED TO WALL, FLOOR OR BEAM SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL BEAM SLEEVES AND REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THE SUB CONTRACTOR.

25.SUB CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY THE MATERIAL SUPPLIES AND MANUFACTURERS.

26.VALUE ENGINEERING OR CHANGES TO PLANS MUST BE APPROVED BY THE ENGINEER OF RECORD AND RESUBMITTED THROUGH THE BUILDING DEPARTMENT PRIOR TO BEING INSTALLED.

PLUMBING SHEET INDEX

PHASE:	DRAWN:	REVIEWED:	DATE:	ID:
CONCEPT SCHEM. DESIGN	REGII	REGII	08/28/2024	
ADVANCED SCHEM. DESIGN	BK	REGII	12/17/2024	
DESIGN DEVELOPMENT	BK	REGII	12/17/2024	
CONSTRUCTION DOCS 90%	BK	REGII	01/22/2025	
CONSTRUCTION DOCS 100%	BK	REGII	02/14/2025	
PERMIT DOCS.				

REVISION:	DATE:	BY:

Client:
Celebration Baptist Church
3300 Shamrock St. E.
Tallahassee, FL 32309

Project Title:
Canopy and Corridor Improvements

Consultant: Civil
Plainsman ENGINEERING
904-382-2286 5404 Appledore LaneTallahassee, FL 32309

Consultant: MEP
FSM Engineering
150 John Knox Road p.850.222.5683
Tallahassee, FL 32303 FL CA 28968

Consultant: Structural
850-727-5367
kevermckee.com
1624 Metropolitan Blvd
Tallahassee, FL 32308
KEVER MCKEE ENGINEERING

Architect:
Hays Layerd Architecture
1221 Summer Haven Cr.
Franklin, TN 37069
850-559-3613
hays@hayslayerd.com
FL License: AR96759
IN COLLABORATION WITH J. HUGHES DESIGN
HAYS LAYERD ARCHITECTURE

Seal:
ROBERT E. GELHARDT II LICENSED PROFESSIONAL ENGINEER STATE OF FLORIDA
NOT FOR CONSTRUCTION
Robert E. Gelhardt II, PE#77568

Plumbing

DRAWING NAME
PLUMBING NOTES & LEGEND

Sheet No.
P001

SANITARY DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL REFER TO OWNER/ ARCHITECT FOR RE-USE OF FIXTURES IN RENOVATION PHASE, CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF DEMOLISHED PIPES AND FIXTURES.

2. DEMOLISH INDICATED SANITARY AND VENT PIPES BACK TO THE NEAREST CONCEALED LOCATION, UNLESS NOTED OTHERWISE. CAP AND SEAL AIR AND WATER TIGHT.

3. NOTE EXISTING SYSTEMS, LOCATIONS, AND SIZES DISCOVERED. COMPILE FINDINGS INTO THE AS-BUILT PLAN, DELIVER TO OWNER UPON PROJECT COMPLETION.

SANITARY RENOVATION KEYED NOTES

X

SANITARY RENOVATION GENERAL NOTES

1. SANITARY SEWER SYSTEM HAS BEEN DESIGNED & ROUTED WITH COORDINATION OF STRUCTURAL FOOTERS & FOUNDATION PLANS. THESE DOCUMENTS SHOULD BE FIELD VERIFIED PRIOR TO INSTALLATION TO ASSURE COMPLIANCE. COORDINATE SLAB CUT WITH ARCHITECT DEMO SHEETS.

2. CONTRACTOR SHALL FIELD VERIFY EXISTING SANITARY PRIOR TO COMMENCEMENT OF WORK. VIDEOSCOPING OF UNDERGROUND PIPEWORK ASSOCIATED WITH THE RENOVATION AREA WILL BE NECESSARY.

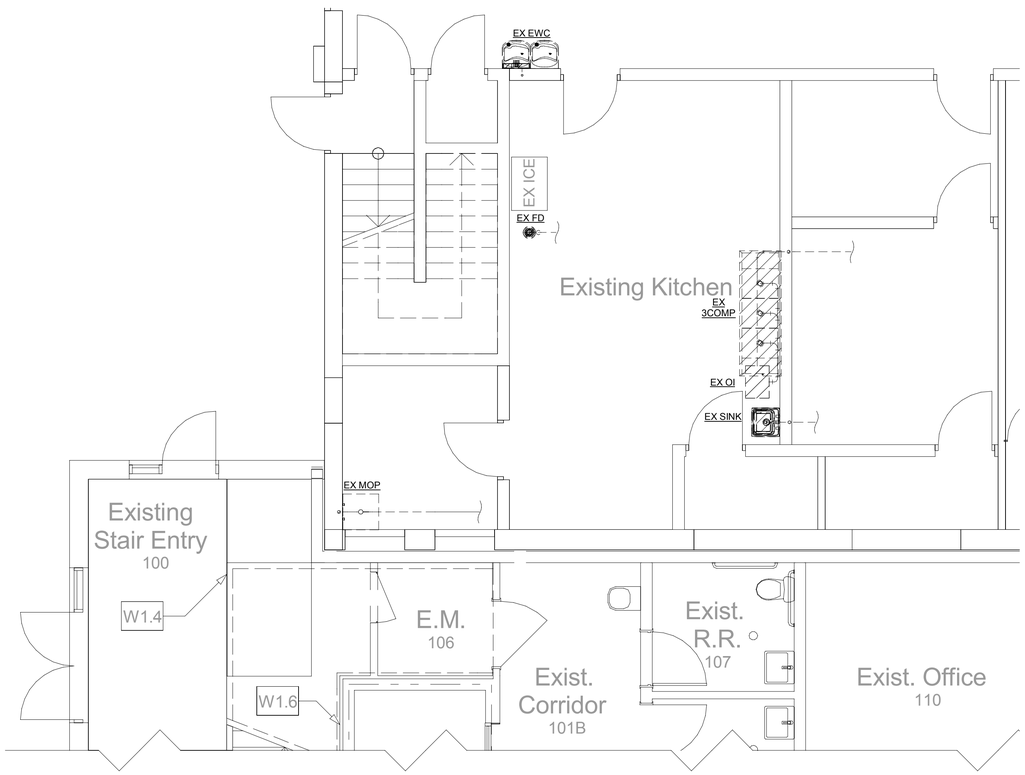
3. CONTRACTOR SHALL REFER TO OWNER/ ARCHITECT FOR RE-USE OF FIXTURES IN RENOVATION PHASE, CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF DEMOLISHED PIPES AND FIXTURES.

4. CONTRACTOR SHALL RECONNECT NEW PIPING TO EXISTING PIPES BELOW GRADE AT PROPER ELEVATION INVERT, AND EXISTING VENT SYSTEMS ABOVE CEILINGS. INSTALL NEW AAV WHERE EXISTING VENT SYSTEMS ARE ABSENT.

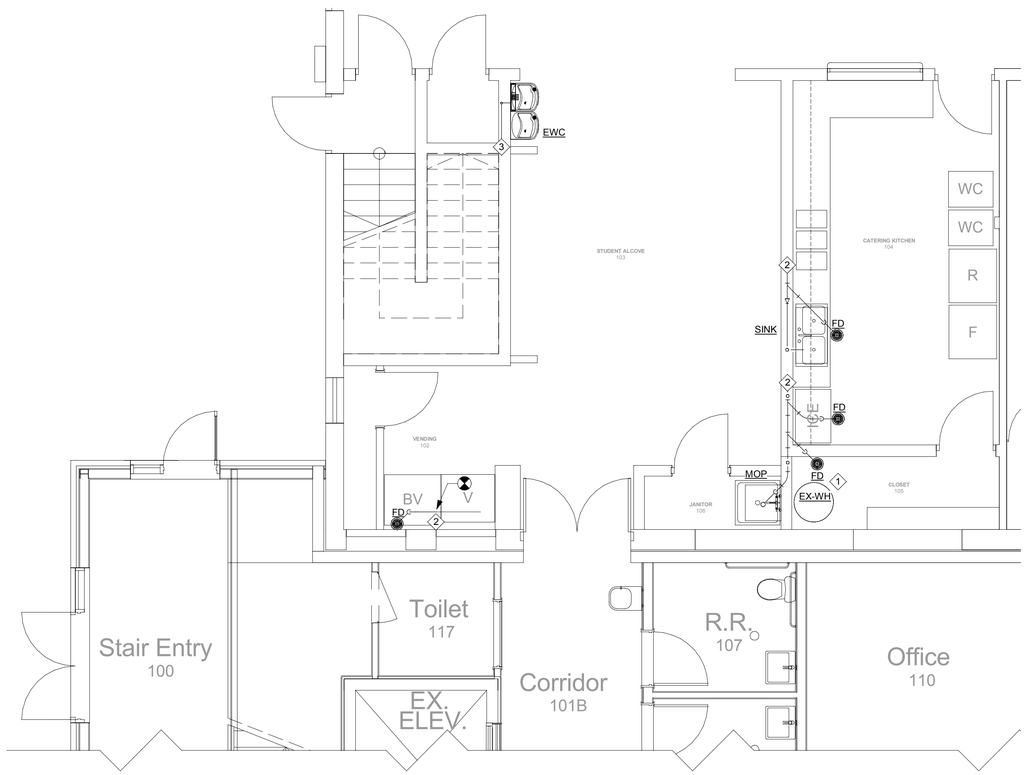
5. SUBMIT FINAL AS-BUILTS TO OWNER AND EOR AT COMPLETION OF PROJECT.

SANITARY RENOVATION KEYED NOTES

X	
1	ROUTE WATER HEATER DRAIN AND T&P TO MOP SINK OR NEAREST DRAIN, SEE DETAIL.
2	CONNECT TO NEAREST 3" SAN AND 2" VENT, OR LARGER.
3	CONNECT TO NEAREST 1-1/2" SAN AND 1" VENT, OR LARGER.



1 P101 **SANITARY DEMOLITION FLOOR PLAN**
Scale: 1/4" = 1'-0"



2 P101 **SANITARY RENOVATION FLOOR PLAN**
Scale: 1/4" = 1'-0"

PHASE:	DRAWN:	REVIEWED:	DATE:
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Client:
Celebration Baptist Church
3300 Shamrock St. E.
Tallahassee, FL 32309

Project Title:
Canopy and Corridor Improvements

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Plainsman Engineering
904-382-2286 5404 Appledore LaneTallahassee, FL 32309

Consultant: MEP
FSM Engineering
150 John Knox Road p.850.222.5683
Tallahassee, FL 32303 FL CA 28968

Consultant: Structural
850-727-5367
kevermckee.com
1624 Metropolitan Blvd
Tallahassee, FL 32308
Kever Mckee Engineering

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Hays Layerd Architecture
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Franklin, TN 37069
850-559-3613
hays@hayslayerd.com
FL License: AR96759
IN COLLABORATION WITH J. HUGHES DESIGN
HAYS LAYERD ARCHITECTURE

Seal:
Robert E. Gelhardt II, PE#77568

Plumbing

DRAWING NAME
SANITARY FLOOR PLAN

Sheet No.
P101

PRESSURE DEMOLITION GENERAL NOTES

1. EXISTING ICE MAKER AND HOT WATER HEATER TO BE RELOCATED AND REUSED IN RENOVATION PHASE. STORE IN A CLEAN, DRY, LOCKED LOCATION UNTIL RENOVATION PHASE. ALL OTHER DIXTURES SHOWN ARE TO BE DEMOLISHED.

2. DEMOLISH INDICATED PIPES BACK TO SUPPLY BRANCH UNLESS NOTED OTHERWISE, CAP AND SEAL WATER TIGHT. RECORD DISCOVERIES OF ALL EXISTING SYSTEMS IN THE AS-BUILT PLANS FOR THIS PROJECT.

PRESSURE RENOVATION KEYED NOTES

X	
1	EQUIPMENT TO BE RELOCATED AND REUSED IN RENOVATION PHASE. DEMOLISH PIPEWORK AS SHOWN.

PRESSURE RENOVATION GENERAL NOTES

1. WATER PIPING MATERIAL & FITTINGS SHALL BE CONSISTENT WITH THE EXISTING SYSTEM.

2. ALL HOT WATER & HOT WATER RETURN SYSTEM SHALL BE INSULATED AS INDICATED IN PLUMBING MATERIAL SCHEDULE.

3. ALL FAUCETS SHALL BE EQUIPPED WITH TEMPERATURE & PRESSURE VALVES AS REQUIRED BY ASME-A112.1070-2014, ASSE-1016-2011, ASSE-1017-2014 & ASSE-1070-2014 USING THERMOSTATIC MIXING VALVES; HOT WATER DELIVERED TO MIXING VALVES FROM WATER HEATERS SHALL BE SUPPLIED AT 120F DEGREES MIN IN ORDER TO CONTROL BACTERIA; ADJUSTMENTS MUST BE MADE AT FIXTURES TO ASSURE TEMPERED WATER COMPLIANCE AS SET FORTH BY GOVERNING CODES.

4. ALL FAUCETS SHALL HAVE FACTORY BUILT-IN TEMPERATURE LIMIT TO PREVENT SCALDING.

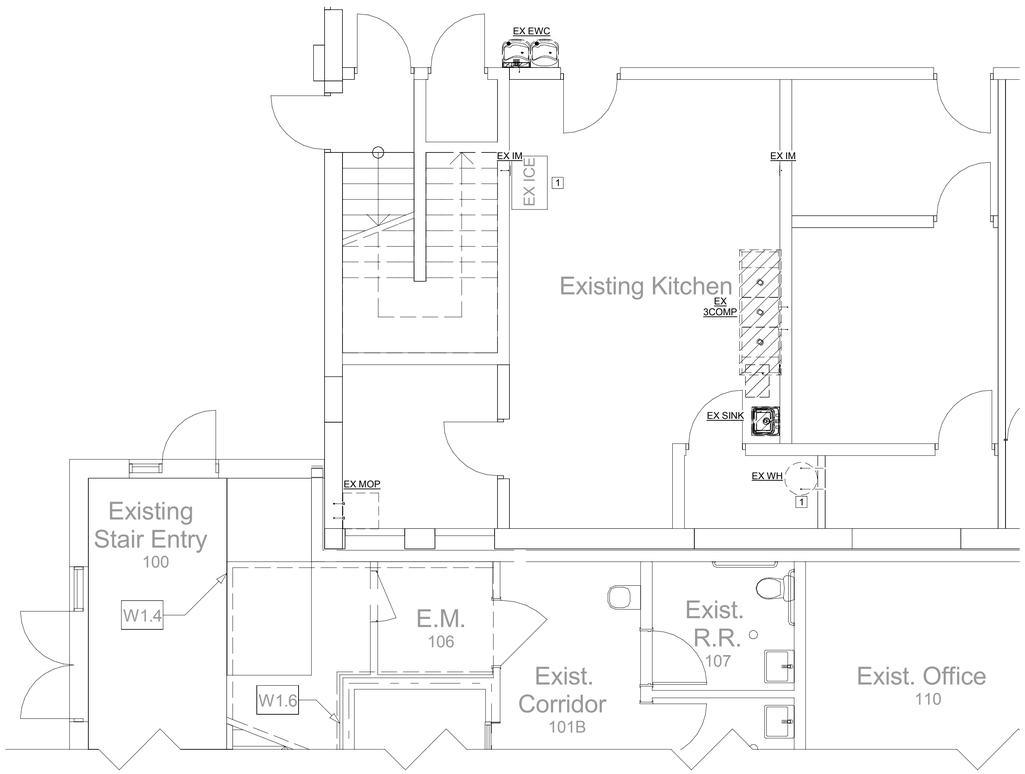
5. SUBMIT FINAL AS-BUILTS TO OWNER AND EOR AT COMPLETION OF PROJECT.

6. RELOCATE, CONNECT, CLEAN, AND REUSE EXISTING ICE MAKER AND HOT WATER HEATER. REPLACE LIKE-FOR-LIKE IF EXISTING EQUIPMENT IS DAMAGED DURING THE CONSTRUCTION PROCESS.

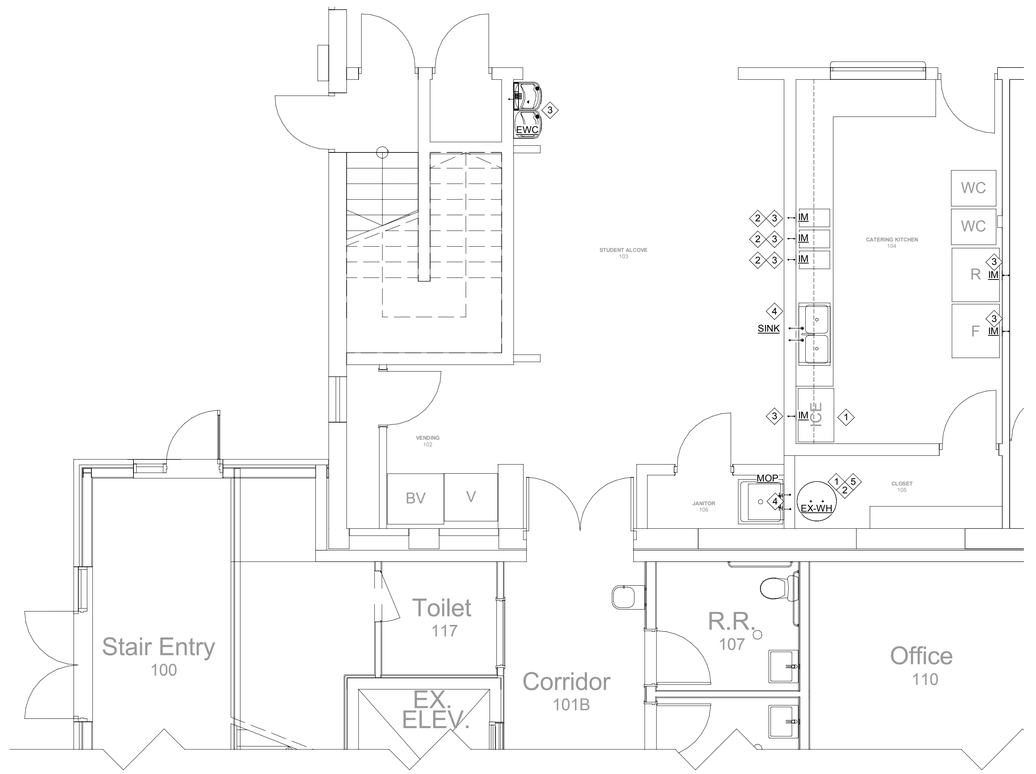
7. OTHER THAN ICE MAKER BOXES, ALL RENOVATION FIXTURES SHOULD BE INSTALLED WITH ABOVE-CEILING ISOLATION VALVES.

PRESSURE RENOVATION KEYED NOTES

X	
1	INSTALL AND CONNECT EXISTING EQUIPMENT INTO REVOVATION PHASE PLUMBING SYSTEMS.
2	INSTALL DCW SUPPLY LINE WITH CHECK VALVE.
3	CONNECT TO NEAREST 1/2" DCW LINE, OR LARGER.
4	CONNECT TO NEAREST 1/2" DCW AND 1/2" HWS LINE, OR LARGER.
5	CONNECT TO NEAREST 3/4" DCW LINE, OR LARGER. RECONNECT 3/4" HWS TO EXISTING HWS SYSTEM.



1 PRESSURE DEMOLITION FLOOR PLAN
P102 Scale: 1/4" = 1'-0"



2 PRESSURE RENOVATION FLOOR PLAN
P102 Scale: 1/4" = 1'-0"

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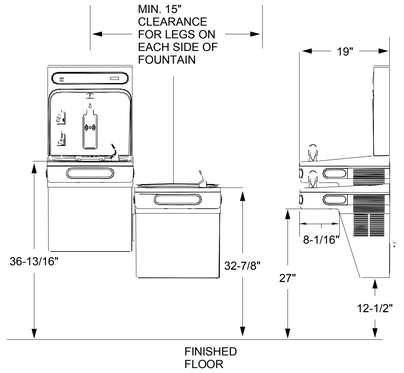
Franklin, TN 37069
850-559-3613
hays@hayslayerd.com
FL License: AR96759
IN COLLABORATION WITH J. HUGHES DESIGN
HAYS LAYERD ARCHITECTURE

Seal:
ROBERT E. GELHARDT II LICENSED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION
Robert E. Gelhardt II, PE#77568

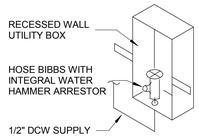
Plumbing

DRAWING NAME
PRESSURE FLOOR PLAN

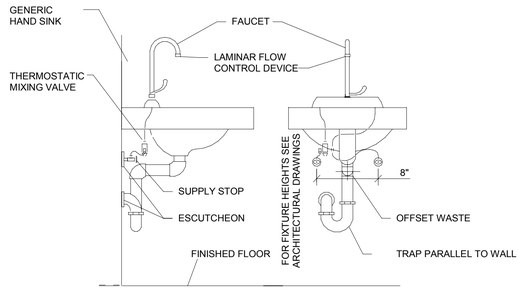
Sheet No.
P102



1 P501 ADA DUAL HEIGHT DRINKING FOUNTAIN DETAIL
SCALE: NTS

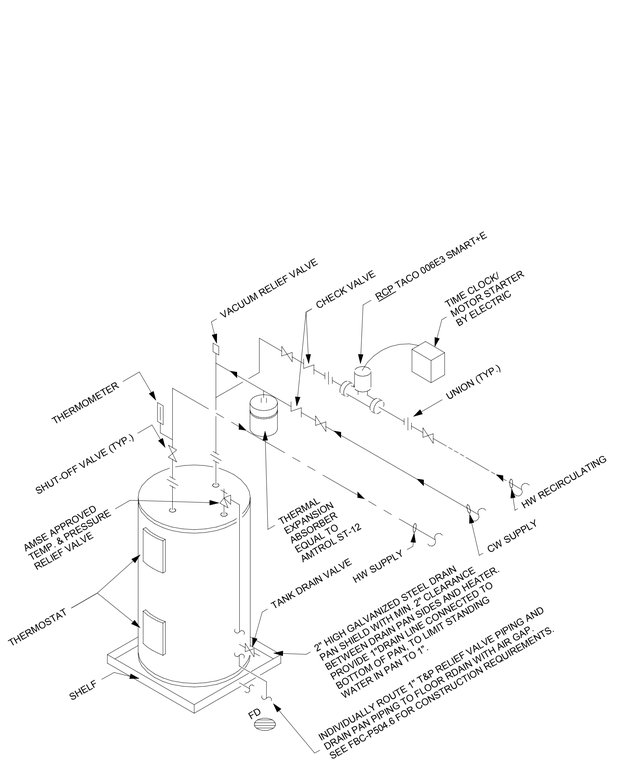


2 P501 ICE MAKER BOX DETAIL
SCALE: NTS

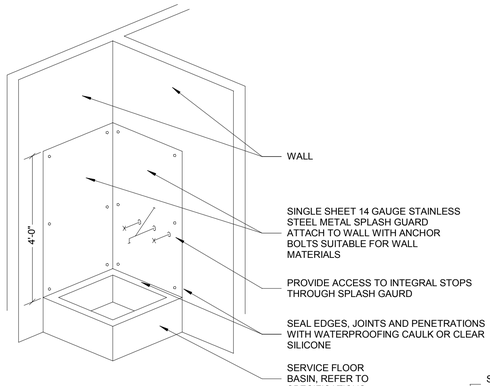


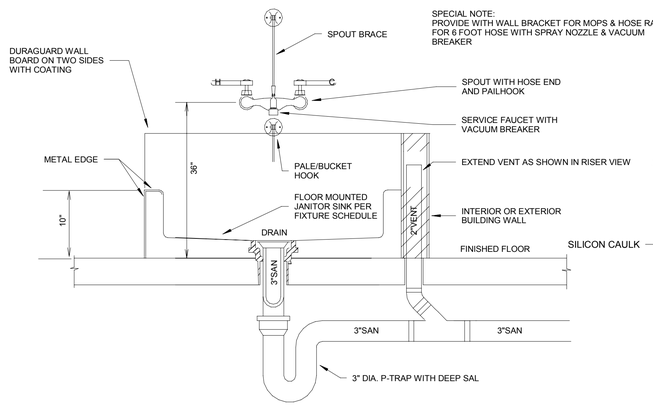
NOTES:
ALL HAND SINKS REQUIRE THERMOSTATIC MIXING VALVES ASSE 1070 CERTIFIED AND SET TO 110°F

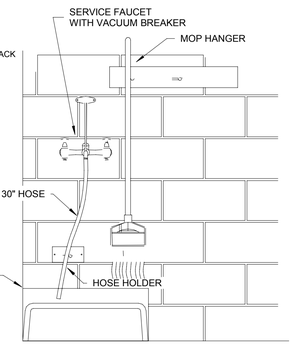
3 P501 SINK WITH THERMOSTATIC MIXING VALVE DETAIL
SCALE: NTS



4 P501 WATER HEATER PIPING DIAGRAM DETAIL
SCALE: NTS







5 P501 MOP SINK DETAIL
SCALE: NTS

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Seal:
ROBERT E. GELHARDT II LICENSED ARCHITECT STATE OF FLORIDA NOT FOR CONSTRUCTION
Robert E. Gelhardt II, PE#77568

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DRAWING NAME
PLUMBING DETAILS

Sheet No.
P501

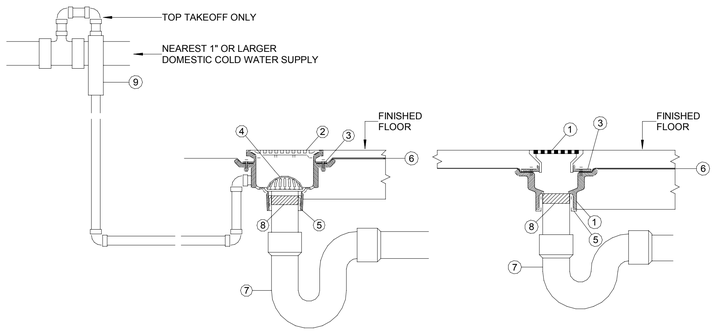
PLUMBING FIXTURE SCHEDULE

MARK	TYPE	MANUFACTURER	MODEL	FIXTURE DESCRIPTION	CW	HW	SAN	IMAGE
EWC	ADA DUAL HEIGHT DRINKING FOUNTAIN	ELKAY	LZSTL8WSLK	WALL MOUNT DUAL HEIGHT ADA ELECTRIC WATER COOLER WITH BOTTLE FILLER. FILTERED, REFRIGERATED. CHILLING CAPACITY OF 8 GPH OF 50 DEGREE DRINKING WATER. ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE PUSHBAR ACTIVATION. MCGUIRE 17 GA FULLY CAST BRASS P-TRAP AND TAILPIECE. MCGUIRE ANGLE SUPPLY STOPS AND BRAIDED STAINLESS STEEL SUPPLY. CHROME PLATED ESCUTCHEON PLATE WITH SET SCREW. PROVIDE BACKFLOW PREVENTER AND WALL CARRIER.	1/2"	0"	1 1/2"	
FD	FLOOR DRAIN	WATTS	FD-100-A	WATTS FD-100-A FLOOR DRAIN WITH ROUND STRAINER, 2" TO 6" PIPE SIZE, NO HUB, PUSH ON, THREADED OUTLET AND INSIDE CAULK FOR OUTLET TYPES, 5" TO 10" STRAINER,	0"	0"	3"	
IM	ICE MAKER BOX	GUY GREY	88531	WHITE POWDER-COATED COLD-ROLLED STEEL ICE MAKER OUTLET BOX, 4"X4"X2" OPENING, WATER HAMMERARRESTER VALVE, 1/4 TURN VALVE.	1/2"	0"	0"	
MOP	MOP SINK	STERN WILLIAMS	SB-900-BP	FLOOR MOUNTED PRECAST TERRAZO WITH STAINLESS STEEL CAP, 24"x24"x12". DRAIN BODY SHALL BE STAINLESS STEEL CAST INTEGRAL, AND SHALL PROVIDE FOR A CAULKED CONNECTION AND NOT LESS THAN 1" DEEP TO A 3" PIPE.	1/2"	1/2"	3"	
SINK	PRIVATE DOUBLE BOWL KITCHEN SINK	ELKAY	ELUHAD361855	UNDERMOUNT, STAINLESS STEEL, DOUBLE BOWL SINK, ADA COMPLIANT, FAUCET: ELKAY LKAV3031 PULL-DOWN SPRAY.	1/2"	1/2"	1 1/2"	

PLUMBING FIXTURE CALCULATION

Mark	QUANTITY	CWFU	TOTAL CWFU	HWFU	TOTAL HWFU	TWFU	COMBINED FU	WFU	TOTAL WFU
EWC	1	0.25	0.25	0	0	0.25	0.25	0.5	0.5
FD	4	0	0	0	0	0	0	3	12
IM	6	0.25	1.5	0	0	0.25	1.5	0	0
MOP	1	2.25	2.25	2.25	2.25	3	3	3	3
SINK	1	1	1	1	1	1.4	1.4	2	2
TOTAL: 13	13		5		3.25		6.15		17.5

PFC NOTE: FIXTURE UNITS BASED ON TABLES FBC-P 709 & E103.3.

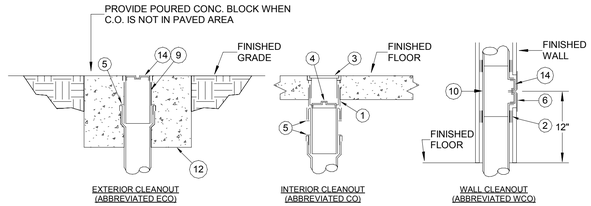


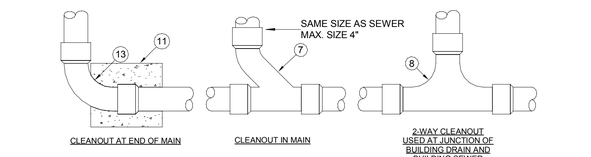
KEY NOTES: (THIS DETAIL ONLY)

1. CAST IRON FLOOR DRAIN BODY WITH 1/2" TRAP PRIMER TAP AND 3" OUTLET.
2. CAST IRON FLOOR SINK WITH ACID RESISTING INTERIOR AND 1/2" TRAP PRIMER TAP AND 3" OUTLET
3. CAST IRON INVERTIBLE CLAMPING COLLAR.
4. POLISHED NICKEL BRONZE 2-PIECE ADJUSTABLE STRAINER
5. PUSH-ON NEOPRENE COMPRESSION GASKET.
6. WATERPROOF MEMBRANE CLAMPED TIGHTLY TO DRAIN BODY.
7. 3" DEEP SEAL P-TRAP
8. INLINE 3" FLOOR DRAIN TRAP SEAL RUBBER SEALING GASKET. SURESEAL SS3009V OR APPROVED EQUAL. REFER TO MANUFACTURER FOR PROPER INSTALLATION RECOMMENDATIONS.
9. ALTERNATE TRAP OPTION: PRESSURE ACTIVATED TRAP PRIMER VALVE - PRECISION PLUMBING PRODUCTS (P.P.P.) OR APPROVED EQUAL. INSTALL MINIMUM 12" A.F.F. FOR EVERY 20' OF PRIMER LINE. IF DISTRIBUTION UNIT DU-4 IS USED UP, UP TO FOUR FLOOR DRAINS MAY BE SERVED FROM ONE TRAP PRIMER VALVE. INSTALL IN ACCESSIBLE LOCATION OR PROVIDE ACCESS PANEL FOR SERVICE.

1 P601 FLOOR SINK AND FLOOR DRAIN DETAIL

SCALE: NTS





KEY NOTES: (THIS DETAIL ONLY)

1. CAST IRON 2-PIECE CLEANOUT BODY WITH ADJUSTABLE HEAD.
2. NO-HUB COUPLING (FOR ABOVE GROUND APPLICATION ONLY).
3. POLISHED NICKEL BRONZE SCORIATED TOP (PROVIDE CARPET MARKER FOR CARPETED FLOORS).
4. BRONZE TAPERED THREAD, RAISED HEAD CLEANOUT PLUG.
5. PUSH-ON NEOPRENE RUBBER COMPRESSION GASKET.
6. STAINLESS STEEL ROUND WALL ACCESS COVER.
7. COMBINATION "Y" & 1/8" BEND FITTING.
8. TWO-WAY CLEANOUT FITTING.
9. CAST IRON CLEANOUT FERRULE.
10. CAST IRON CLEANOUT TEE.
11. 12" x 12" x 12" CONCRETE THRUST BLOCK.
12. 24" x 24" x 12" CONCRETE PAD FLUSH WITH GRADE.
13. LONG SWEEP ELBOW.
14. BRONZE TAPERED THREAD, RECESSED HEAD CLEANOUT PLUG.

2 P601 TYPICAL CLEANOUT

SCALE: NTS

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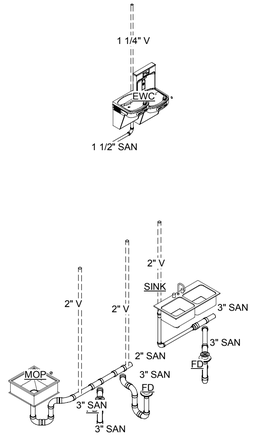
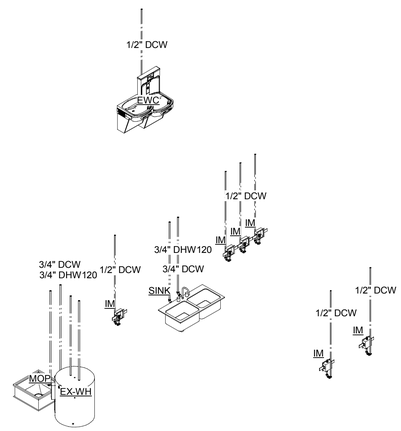
P601



1 P901 SANITARY RISER

No Scale



2 P901 PRESSURE RISER

No Scale

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Sheet No.
P901