







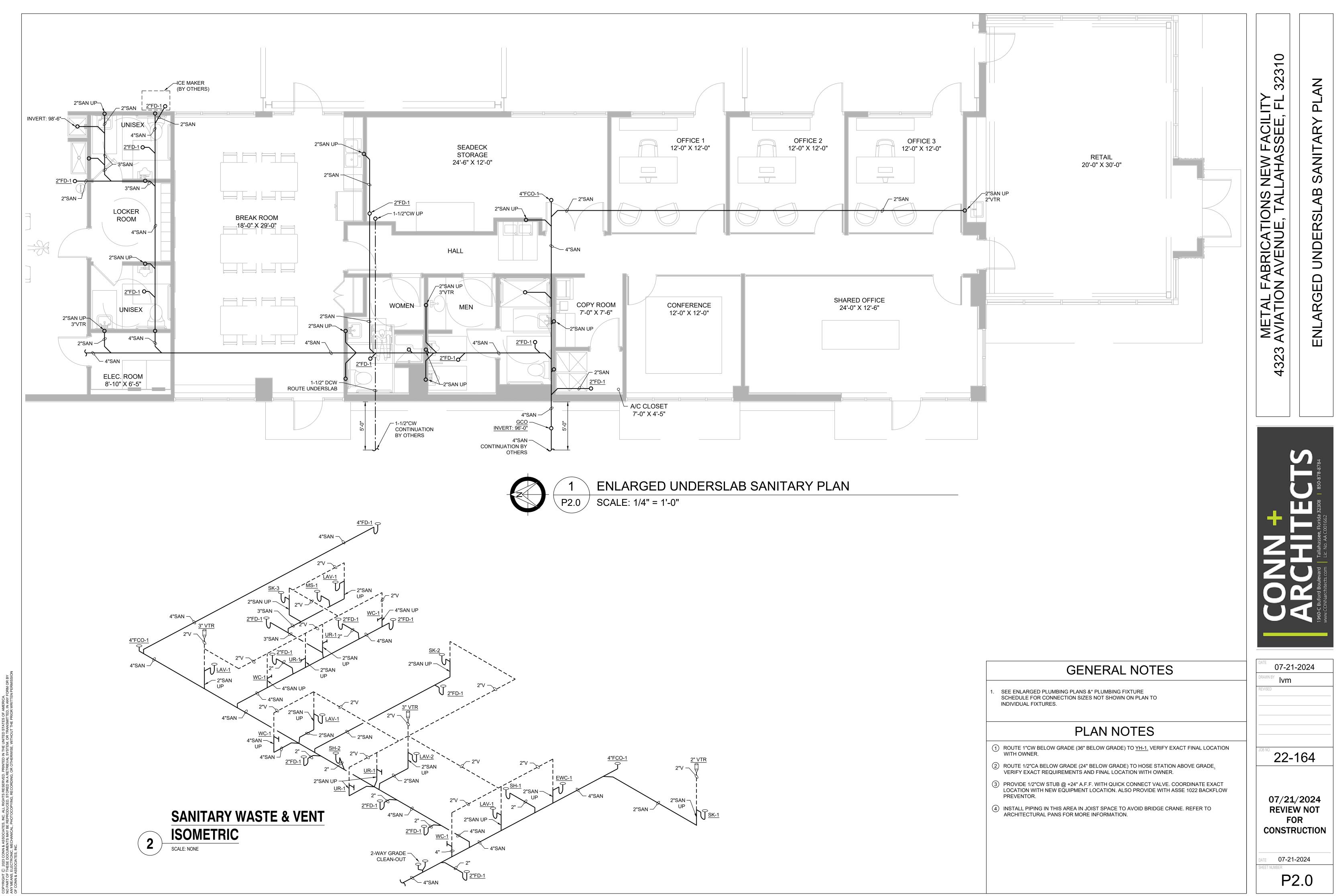
GENERAL NOTES

SEE ENLARGED PLUMBING PLANS &* PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZES NOT SHOWN ON PLAN TO INDIVIDUAL FIXTURES.

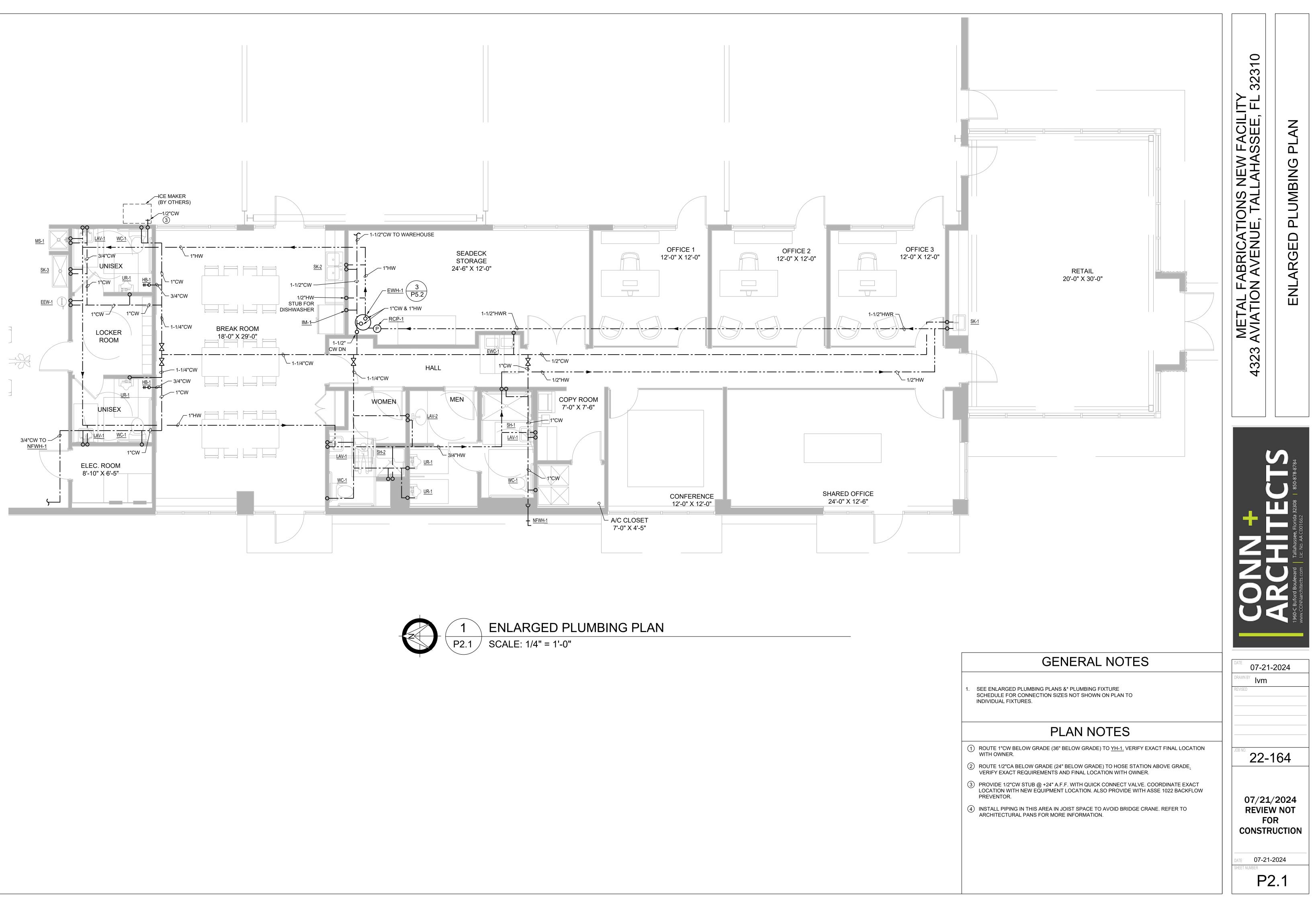
PLAN NOTES

- 1 ROUTE 1"CW BELOW GRADE (36" BELOW GRADE) TO <u>YH-1.</u> VERIFY EXACT FINAL LOCATION WITH OWNER.
- 2 ROUTE 1/2"CA BELOW GRADE (24" BELOW GRADE) TO HOSE STATION ABOVE GRADE. VERIFY EXACT REQUIREMENTS AND FINAL LOCATION WITH OWNER.
- (3) PROVIDE 1/2"CW STUB @ +24" A.F.F. WITH QUICK CONNECT VALVE. COORDINATE EXACT LOCATION WITH NEW EQUIPMENT LOCATION. ALSO PROVIDE WITH ASSE 1022 BACKFLOW PREVENTOR.
- (4) INSTALL PIPING IN THIS AREA IN JOIST SPACE TO AVOID BRIDGE CRANE. REFER TO ARCHITECTURAL PANS FOR MORE INFORMATION.

07-21-2024 RAWN BY 22-164 07/21/2024 **REVIEW NOT** FOR CONSTRUCTION 07-21-2024 P1.0



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PLUMBING SPECIFICATIONS

ALL WORK SHALL CONFORM TO STATE AND LOCAL PLUMBING AND BACKFLOW PREVENTION CODES, AND THE REQUIREMENTS OF THE LOCAL WATER UTILITY.

CONNECT PLUMBING FIXTURES TO PIPING INDICATED PER THE PLUMBING FIXTURE CONNECTION SCHEDULE, ISOMETRICS AND PLAN NOTES. (SOME PIPING NOT SHOWN FOR CLARITY ON PLAN VIEWS).

COORDINATE MECHANICAL PENETRATIONS OF/WITH OTHER WORK TO AVOID INTERFERENCES. SEAL PENETRATIONS AS NOTED AND/OR SPECIFIED MAINTAINING THE FIRE RATING OF OTHER WORK WHERE APPLICABLE. FLASH ALL ROOF PENETRATIONS WITH DECKTITE FLASHING

REFER TO ARCHITECTURALPLANS FOR WALL TYPES IN WHICH PLUMBING IS TO INSTALLED. COORDINATE PLUMBING INSTALLATION WITH OTHER WORK. PRIOR TO PROCUREMENT CONTRACTOR SHALL SUBMIT TO ARCHITECT FULL SUBMITTALS FOR ALL ENERGY CONSUMING OR PRODUCING ITEMS AND FOR ALL PLUMBING FIXTURES. SUBMITTALS SHALL BE DELINEATED WITH TAGS ON PRINTS, CONTRACTORS NAME, AND PROJECT NAME. CLEARLY INDICATE ALL MODEL NUMBERS AND ALL ACCESSORIES AND OPTIONS BEING PROVIDED. ENGINEER RESERVES THE RIGHT TO REJECT AND SUBSTITUTE ITEM.

PLUMBING WORK SHALL BE COMPLETE IN EVERY DETAIL AND ALL MISCELLANEOUS ITEMS OF MATERIAL AND LABOR NECESSARY TO COMPLETE THE WORK DESCRIBED, SHOWN OR REASONABLY IMPLIED ON DRAWINGS OR SPECIFICATIONS SHALL BE INCLUDED IN THIS CONTRACT. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO THE WORK WHERE REQUIRED, WHEN SUCH ADJUSTMENTS ARE NECESSARY FOR PROPER OPERATION AND WITHIN THE INTENT OF THE CONTRACT. CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIALS ENTERING INTO CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE.

ALL WORK SHALL BE IN COMPLIANCE WITH 2023 FLORIDA BUILDING CODE -PLUMBING CODE, ENERGY CONSERVATION CODE, FUEL GAS CODE AND ALL PERTINENT STATE, COUNTY, CITY CODES AND ORDINANCES WITH LOCAL AMENDMENTS.

PLUMBING CONTRACTOR SHALL VISIT THE SITE AND VIEW ALL EXISTING CONDITIONS BEFORE SUBMITTING A PROPOSAL FOR THE WORK AS DESCRIBED AND SHOWN. NO EXTRAS WILL BE ENTERTAINED FOR FAILURE TO MAKE THIS VISIT.

PLUMBING CONTRACTOR SHALL ACCEPT SOLE AND COMPLETE RESPONSIBILITY FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.

ALL EXPOSED SUPPLY PIPES AND METAL TRIM IN CONNECTION WITH THE FIXTURES SHALL BE CHROME PLATED RED BRASS OR BRONZE. PROVIDE CHROME PLATED STOP VALVES IN ALL SUPPLIES TO ALL FIXTURES. CAULK ALL FIXTURES WITH WATERPROOF SILICONE CAULK. TRAPS SHALL HAVE CLEANOUT PLUGS. INSTALL ONE PIECE CHROME ESCUTCHEON PLATE WITH SET SCREW AT WALL PENETRATIONS.

PROVIDE BELLOWS TYPE WATER HAMMER ARRESTERS, STAINLESS STEEL CASING AND BELLOWS, 250 PSI, INSTALL PER PDI STANDARD WH201.

INSTALL WATER HEATERS IN ACCORDANCE WITH NFPA-70 AND THE NATIONAL ELECTRICAL CODE. PROVIDE BRASS DRAIN VALVE, 3/4" RELIEF VALVE AND COLD WATER DIP TUBE. INSTALL HEATERS PER MANUFACTURERS INSTALLATION INSTRUCTIONS. PROVIDE SHUT-OFF VALVES FOR SERVICE WORK. THERMOSTATS OR MIXING VALVES PROVIDING WATER TO FAUCETS ACCESSIBLE TO OCCUPANTS SHALL BE LIMITED TO ENSURE WATER IS DELIVERED AT 100 DEG. F. OR LESS.

FIXTURES DESIGNATED FOR HANDICAP ACCESSIBILITY SHALL COMPLY WITH ANSI A 117.1 LATEST EDITION, INCLUDING ADOPTED INDIANA AMENDMENTS.

WASTE AND VENT PIPING MAINS SHALL BE PITCHED AT 1/8" PER FOOT. LATERAL BRANCHES SHALL BE PITCHED AT 1/4" PER FOOT TOWARD THE SANITARY SEWER LINE. THEY SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH 2012 INDIANA PLUMBING CODE AND TESTED PER LOCAL INSPECTOR REQUIREMENTS.

FURNISH AND INSTALL ACCESS PANELS FOR ALL CONCEALED EQUIPMENT, PIPING VALVES, CLEANOUTS, ETC. ACCESS PANELS SHALL BE OF SUFFICIENT SIZE TO PROVIDE ADEQUATE WORKING CLEARANCE AND ACCESS.

ALL PIPING INSULATION MATERIALS SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS (ON THE FLAME SPREAD TEST SCALE) OR AS DEFINED BY NFPA 255 STANDARD METHOD OF TESTING OF SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, LOCAL CODES AND LOCAL AUTHORITIES HAVING JURISDICTION.

DIELECTRIC UNIONS SHALL BE USED TO CONNECT DISSIMILAR METALS OR METAL PIPING SHALL HAVE METAL CONNECTIONS ON EACH END THREADED TO MATCH THE ADJACENT PIPING. METAL COMPONENTS SHALL BE SEPARATED BY A NYLON INSULATOR TO PREVENT CURRENT FLOW BETWEEN DISSIMILAR METALS. UNIONS SHALL BE SUITABLE FOR THE SYSTEM OPERATING PRESSURES AND TEMPERATURE WELD TYPE: ASTM A-234.

VERIFY LOCATION, DEPTH AND SIZE OF EXISTING SANITARY SEWER AT SITE. CONNECT AS REQUIRED.

ALL PIPING PENETRATIONS OF WALLS AND FLOORS SHALL BE SLEEVED. SEALED WATER TIGHT AND FIRE RATED WHERE REQUIRED. ALL PENETRATIONS OF EXTERIOR BUILDING WALLS OR FOUNDATIONS SHALL BE SLEEVED AND SEALED OR INSTALLED WITH MECHANICAL SEALS.

ANY EXTRA SERVICES WORK DEEMED NECESSARY BY THIS CONTRACTOR SHALL BE PRESENTED TO GENERAL CONTRACTOR IN THE FORM OF A WRITTEN REQUEST FOR CHANGE ORDER. THE REQUEST SHALL CLEARLY STATE SCOPE OF WORK AND DETAIL ANY ASSOCIATED COSTS OVER AN ABOVE ORIGINAL CONTRACT AMOUNT. NO CHANGE ORDER WORK SHALL BE PERFORMED WITHOUT PRIOR WRITTEN APPROVAL BY ENGINEER OF RECORD.

NO PLUMBING PIPING SHALL PASS DIRECTLY OVER ELECTRICAL PANELS OR DISTRIBUTION CABINETS. PRIOR TO ROUGH IN COORDINATE WITH E.C.

PLUMBING CONTRACTOR SHALL INSTALL A COMPLETE SYSTEM OF DRAIN, WASTE AND VENT PIPING, HOT AND COLD WATER PIPING AND FIXTURES SHALL BE CONNECTED PROPERLY TO WATER, DRAIN AND VENT SYSTEMS.

SCHEDULE OF BUILDING PIPING SYSTEMS

SYSTEM	CODES/STANDARDS *	MATERIALS **	INSULATION ** 1/2" ASTM C 534, TYPE I FLEXIBLE ELASTOMERIC OR POLYOLEFIN FOR VENT PIPING WITHIN (6) LINEAL FEET OF ROOF OUTLET.		
SOIL, WASTE, AND VENT PIPING	2023 FLORIDA BUILDNG CODE- PLUMBING, ASTM D 2665, ASME B31.9 "BUILDING SERVICES PIPING"	8" AND SMALLER: ASTM D 2665 SCH 40, PVC DWV PIPE, PVC SOCKET- TYPE DRAIN, WASTE AND VENT PIPE PATTERN FITTINGS, SOLVENT- CEMENTED JOINTS			
WATER 2023 FLORIDA BUILDNG CODE- PLUMBING, DISTRIBUTION ASME B31.9 "BUILDING SERVICES PIPING"		3" AND SMALLER: ASTM B 88 PEX PIPING	1/2" ASTM C 547 CLASS I GLASS FIBER OR 1/2" ASTM C 534 TYPE I FLEXIBLE ELASTOMERIC OR POLYOLEFIN		
NATURAL GAS PIPING	2023 FLORIDA BUILDNG CODE- FUEL GAS, NFPA 54 "NATIONAL FUEL GAS CODE"	2" AND SMALLER: ASTM A 53 B, TYPE ERW, SCH 40 BLACK STEEL PIPE, ASME B16.3 CLASS 150 MALLEABLE IRON THREADED FITTINGS, THREADED JOINTS			
		BLE TO EACH RESPECTIVE SYSTEM. HOWEVER, ALI LL STATE LAWS, MUNICIPAL ORDINANCES, AND THE			

BE IN STRICT COMPLIANCE WITH THE LATEST EDITIONS OF ALL STATE LAWS, MUNICIPAL ORDINANCES, AND THE RULES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. ** THIS IS A GENERAL LISTING OF MATERIALS/INSULATION APPLICABLE TO EACH RESPECTIVE SYSTEM. HOWEVER, ALL WORK SHALL

BE IN STRICT COMPLIANCE WITH THE LATEST EDITIONS OF ALL STATE LAWS, MUNICIPAL ORDINANCES, AND THE RULES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.

ELECTRIC WATER HEATER SCHEDULE									
MARK -	ELECTRICAL DATA			RECOVERY		NOMINAL STORAGE	DRY UNIT WEIGHT	BASIS OF DESIGN MANUFACTURER	
	AMP	KW	VOLTS	PHASE	GPH/(GPM)	RISE °F	CAPACITY (GAL.)	(LBS.)	WITH MODEL NUMBER
EWH-1	44	9	208	1	41	90	40	125	AO SMITH DEN-40





PLUMBING FIXTURE & PIPE CONNECTION SCHEDULE								
TAG			F DESIGN	0	ONNE	CTION	S	
		MANUFACTURER	CATALOG NUMBER	WASTE INCHES	VENT INCHES	CW INCHES	HW INCHES	NOTES
WC-1	ADA, WALL MOUNT FLUSH VALVE	ZURN	Z5615 ECOVANTAGE	4	2	1	-	
UR-1	ADA, WALL HUNG FLUSH VALVE	тото	UT105U	2	1.5	0.75	-	
LAV-1	ADA, WALL HUNG SINGLE HANDLE FAUCET	AMERICAN STANDARD	LUCERNE	1.5	1.5	0.5	0.5	DELTA 500-DST, 0.5 GPM, ADA PIPE WRAPS, ASSE 1070 MIXING VALVE LIKE WATTS LFUSG-B. INSTALL PER ANSI 117 STANDARDS. PROVIDE CARRIER
LAV-2	ADA, COUNTERTOP, SINGLE HANDLE FAUCET	AMERICAN STANDARD	AQUALYN 0476.028	1.5	1.5	0.5	0.5	DELTA 500-DST, 0.5 GPM, ADA PIPE WRAPS, ASSE 1070 MIXING VALVE LIKE WATTS LFUSG-B. INSTALL PER ANSI 117 STANDARDS.
SK-1	SINGLE COMPARTMENT STAINLESS STEEL SINK	ELKAY	LRADQ252160	2	1.5	0.5	0.5	AMERICAN STANDARD 4175.300 COLONY SOFT 1 HANDLE HIGH ARC PULL DOWN KITCHEN FAUCET, 1.5 GPM. INCLUDE ASSE 1070 MIXING VALVE
SK-2	DOUBLE COMPARTMENT STAINLESS STEEL SINK	DAYTON	DSE23319	1.5	1.5	0.5	0.5	AMERICAN STANDARD 4175.300 COLONY SOFT 1 HANDLE HIGH ARC PULL DOWN KITCHEN FAUCET, 1.5 GPM. INCLUDE ASSE 1070 MIXING VALVE. INCLUDE BADGER 1 DISPOSAL COMMERCIAL GRADE.
SK-3	2-STATION WALL HUNG, TROUGH SINK MANUAL FAUCET	ADVANCE TABCO	FC-WM-40-ADA	1.5	1.5	0.5	0.5	(2) MANUAL FAUCETS INCLUDED. INSTALL PER ANSI 117 STANDARDS, ADA PIPE WRAPS AND CARRIER.
SH-1 SH-2	ADA ROLL IN SHOWER	FRAMED & TILED BY OTHERS	N/A	2	1.5	0.5	0.5	INCLUDE 36" GRAB BAR AND 123553R/123554L SEAT AND AMERICAN STANDARD SHOWER SYSTEM MODEL 1662.211 HAND HELD SHOWER (1.5 GPM). ALSO PROVIDE 2" NO-CAULK SHOWER DRAIN WITH SS SNAP-IN STRAINER AND COMPRESSION GASKET (67042) IPS (86058) MODEL #4822 BS
EWC-1	ADA, BI LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLER	ELKAY	LZSTL8WSLK	1.5	1.5	0.5	-	LIGHT GRAY, 8 GPH, 50°F WATER
MS-1	MOP SINK	FIAT	2424	3	1.5	0.5	0.5	24"X24"X10" MOLDED STONE, HOSE AND WALL BRACKET, AND SERVICE SINK FAUCET
FD-1	FLOOR DRAIN	JOSAM	3000-6A	2	-	-	-	BRONZE TOP
FD-2	FLOOR DRAIN	JOSAM	32100	4	-	-	-	CAST IRON TOP
FCO-1	FLOOR CLEANOUT	JOSAM	55000-1	4	-	-	-	NICKEL BRONZE
FCO-2	FLOOR CLEANOUT	JOSAM	55000	4	-	-	-	BRONZE TOP
TMV-1	THERMOSTATIC MIXING VALVE	WATTS	LFUSG-B	-	-	0.375	0.375	ASSE 1070 - NO EQUAL
RCP-1	HOT WATER RECIRCULATION PUMP	GRUNDFOS	UPS23-99BFC	-	-	-	0.75	CAST IRON, 1/6 HP, 115V
EEW-1	EMERGENCY EYE WASH - WALL MOUNTED	GUARDIAN	G1814P	-	-	0.5	0.5	3 GPM - EYE/WASH ASSE 1071 INSTALL WITH TMV-1, TEMPER WATER TO 70°F
YH-1	YARD HYDRANT AT DUMPSTER	WOODFORD	Y34	-	-	0.75	-	EXTERIOR NON-FREEZE INSTALL 36" AFG WITH 36" BURY
NFWH-1	WALL HYDRANT	SOIUX CHIEF	118-208	-	-	0.75	-	EXTERIOR NON-FREEZE INSTALL 18" AFG
HB-1	HOSE BIBB	WOODFORD	24	-	-	0.75	-	INSTALL 48" AFF U.N.O. INSTALL ASSE 1011 VACUUM BREAKER
IM-1	ICE MAKER BOX	OATEY	38574	-	-	0.5	-	POLYSTYRENE BOX WITH BRASS BALL VALVE

