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PIPING AND FITTINGS	
	CAP
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	TEE, OUTLET UP
	TEE, OUTLET DOWN
	SANITARY, SOIL OR WASTE PIPING
	SANITARY VENT PIPING
	GREASE LADEN WASTE PIPING
	COLD WATER SUPPLY PIPING
	HOT WATER SUPPLY PIPING
	140° HOT WATER SUPPLY PIPING
	HOT WATER RECIRCULATION PIPING
	STORM DRAIN PIPING
	GAS PIPING
	(COOLING COIL) CONDENSATE DRAIN PIPING
	WALL FAUCET
	WALL HYDRANT
	WATER HAMMER ARRESTER - SEE DETAIL FP503
	FLOOR DRAIN - SEE DETAIL EP501
	FLOOR SINK - SEE DETAIL CP502
	HUB DRAIN WITH BACKWATER VALVE - SEE DETAIL FP501
	AREA DRAIN - SEE DETAIL FP502
	WALL CLEAN OUT - SEE DETAIL DP501
	CLEAN OUT - SEE DETAIL DP501
	CIRCULATOR PUMP - SEE DETAIL HP501

VALVES	
	BALL VALVE (WITH QUARTER TURN HANDLE)
	BUTTERFLY VALVE (WITH QUARTER TURN HANDLE)
	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	SOLENOID VALVE
VALVE ACTUATORS:	
	QUARTER TURN LEVER
	HANDWHEEL
	SOLENOID

MEASUREMENTS AND CONTROLS	
	PRESSURE GAUGE AND ISOLATION VALVE
	MEMORY STOP FLOW CONTROL VALVE (NUMBER INDICATES FLOW IN GPM)
	THERMOMETER
	GAS REGULATOR
	METER (WATER OR GAS)

MISCELLANEOUS	
	HINGED CEILING ACCESS PANEL
	MINIMUM INVERT ELEVATION BELOW REFERENCE ELEVATION
	ELEVATION MARK - DISTANCE ABOVE FINISHED FLOOR TO CENTER OF ELEMENT
	POINT OF CONNECTION, NEW TO EXISTING
	POINT OF CONNECTION, PLUMBING TO CIVIL
	SMOKE RATED WALL
	1 HOUR FIRE RATED WALL
	2 HOUR FIRE RATED WALL

MINIMUM REQUIRED SLOPE	
ALL DRAINAGE PIPING	
PIPE SIZES, INCHES	MIN. SLOPE INCHES/FOOT
2"	1/4"
3"	1/8"
4"	1/8"
6"	1/8"
8"	1/16"
10"	1/16"

NOTES:	
1.	COMBINATION DRAIN AND VENT PIPING SHALL BE RUN AT A MAXIMUM SLOPE OF 1/2" PER FOOT.

APPLICABLE CODES	
PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.	
1. ASHRAE	SAFETY STANDARD FOR REFRIGERATION SYSTEMS - 2019
a. STANDARD 15	ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS - 2019
b. STANDARD 90.1	
2. ASME	SAFETY CODE FOR ELEVATORS AND ESCALATORS - 2019
a. ASME A17.1	
3. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA)	
4. NATIONAL FIRE CODES	UNIFORM FIRE CODE - 2021 (FLORIDA EDITION)
a. NFPA 1	NATIONAL FUEL GAS CODE - 2021
b. NFPA 54	NATIONAL ELECTRICAL CODE - 2020
c. NFPA 70	LIFE SAFETY CODE - 2021 (FLORIDA EDITION)
d. NFPA 101	
5. FLORIDA BUILDING CODE, 2023 EDITION	
a. BUILDING CODE	
b. ENERGY CONSERVATION CODE	
c. PLUMBING CODE	
d. FUEL GAS CODE	
e. ACCESSIBILITY CODE	
6. FLORIDA STATUTES	ENGINEERING
a. CHAPTER 471	BUILDING CONSTRUCTION STANDARDS; FLORIDA BUILDING CODE - ENFORCEMENT
b. CHAPTER 533.80	
7. FLORIDA ADMINISTRATIVE CODE	EDUCATIONAL FACILITIES - 2014 EDITION
a. CHAPTER 6A-2	FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS
b. CHAPTER 9B-7	FLORIDA ELEVATOR SAFETY CODE
c. CHAPTER 61C-5	RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF MECHANICAL SYSTEMS
d. CHAPTER 61G15-34	FIRE PREVENTION - GENERAL PROVISIONS
e. CHAPTER 89A-3	UNIFORM FIRE SAFETY STANDARDS FOR ELEVATORS
f. CHAPTER 89A-47	FIRE SAFETY IN EDUCATIONAL FACILITIES
g. CHAPTER 89A-58	THE FLORIDA FIRE PREVENTION CODE - 8TH 2023 EDITION
h. CHAPTER 89A-60	

RESOLVE, IN WRITING, ANY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER PRIOR TO BIDDING. AFTER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITION NECESSARY FOR COMPLIANCE WITH APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.

THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

WHERE THERE IS CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CODES SHALL GOVERN, EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE STRINGENT.

DOMESTIC PIPE CLEANING

- A. CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING AS FOLLOWS:
- PURGE NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USING.
 - USE PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION; IF METHODS ARE NOT PRESCRIBED, USE PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652 OR FOLLOW PROCEDURES DESCRIBED BELOW:
 - FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
 - FILL AND ISOLATE SYSTEM ACCORDING TO EITHER OF THE FOLLOWING:
 - FILL SYSTEM OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 ppm OF CHLORINE. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS.
 - FILL SYSTEM OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 200 ppm OF CHLORINE. ISOLATE AND ALLOW TO STAND FOR THREE HOURS.
 - FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO CHLORINE IS IN WATER COMING FROM SYSTEM AFTER THE STANDING TIME.
 - REPEAT PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.
 - SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION.
- B. PREPARE AND SUBMIT REPORTS OF PURGING AND DISINFECTING ACTIVITIES. INCLUDE COPIES OF WATER-SAMPLE APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
- C. CLEAN INTERIOR OF DOMESTIC WATER PIPING SYSTEM. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES.

MINIMUM REQUIRED SLOPE	
ALL DRAINAGE PIPING	
PIPE SIZES, INCHES	MIN. SLOPE INCHES/FOOT
2"	1/4"
3"	1/8"
4"	1/8"
6"	1/8"
8"	1/16"
10"	1/16"

ABBREVIATIONS			
AC	ABOVE CEILING	HWR	HOT WATER RECIRCULATION
AD	AREA DRAIN	IE	INVERT ELEVATION
AF	ABOVE FLOOR	IMB	ICE MAKER
AFF	ABOVE FINISHED FLOOR	LHB	LAUNDRY HOOK-UP BOX
AHAP	AS HIGH AS POSSIBLE	LV	LAVATORY
AP	ACCESS PANEL	MSB	MOP SERVICE BASIN
BF	BELOW FLOOR	NA	NOT APPLICABLE
BG	BELOW GRADE	OS	OIL SEPARATOR
BV	BALL VALVE	PSAN	SANITARY
CD	CONDENSATE DRAIN	PVENT	VENT
CW	CAN WASH	SD	STORM DRAIN
CWS	COLD WATER SUPPLY	SK	SINK
DN	DOWN	SW	SOFT WATER
ECO	EXTERIOR CLEANOUT	TYP	TYPICAL
EX	EXISTING	UR	URINAL
EW/C	ELECTRIC WATER COOLER	VS	VENT STACK
FCV	FLOW CONTROL VALVE	VTR	VENT THROUGH ROOF
FD	FLOOR DRAIN	WC	WATER CLOSET
FS	FLOOR SINK	WCO	WALL CLEANOUT
GI	GREASE INTERCEPTOR	WF	WALL FAUCET
HB	HOSE BIBB	WH	WALL HYDRANT
HD	HUB DRAIN	WHA	WATER HAMMER ARRESTER
HP	HORSEPOWER	WS	WASTE STACK
HWS	HOT WATER SUPPLY		

- ### COMMISSIONING NOTES
- THE BUILDING MECHANICAL SYSTEMS SHALL BE COMMISSIONED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION C408 "SYSTEMS COMMISSIONING".
 - THE OWNER IS RESPONSIBLE FOR PROVIDING THE SERVICES OF AN APPROVED COMMISSIONING PROVIDER.
 - ELECTRICAL, PLUMBING, HVAC, CONTROLS AND TAB CONTRACTORS SHALL ASSIST WITH COMMISSIONING EFFORTS INCLUDING (NOT LIMITED TO) PERFORMING PRE-TESTING OF FUNCTIONAL PERFORMANCE TEST (TEST CRITERIA PROVIDED BY COMMISSIONING AUTHORITY) PRIOR TO COMMISSIONING AUTHORITY PERFORMING FUNCTION PERFORMANCE TEST VERIFICATION WITH AFOREMENTIONED CONTRACTORS.

- ### PLUMBING NOTES
- INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA PLUMBING CODE AND LOCAL PLUMBING CODES. WHERE CONFLICTS OCCUR BETWEEN CODES AND BETWEEN THE CONSTRUCTION DOCUMENTS AND CODES, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
 - MISCELLANEOUS EQUIPMENT TO BE FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATIONS THAT REQUIRE PIPING OR DUCT CONNECTIONS SHALL BE RECEIVED AND SET WITH ROUGH-IN AND FINAL CONNECTIONS MADE UNDER THESE SECTIONS.
 - PRESSURE TEST ALL WATER PIPING SYSTEMS AT 150% OF NORMAL WORKING PRESSURE.
 - COPPER PRESSURE PIPE SHALL BE SOLDERED ENTIRELY WITH LEAD-FREE SOLDER.
 - INSTALLATION OF EQUIPMENT AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR MAINTENANCE.
 - ALL FLOOR DRAINS AND FLOOR SINKS SHALL HAVE MINIMUM 3" DRAIN LINES, DEEP SEAL TRAPS AND AUTOMATIC TRAP PRIMERS (MANUFACTURER: PRECISION PLUMBING PRODUCTS).
 - WATER HAMMER ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH PDI-WH201.
 - HOSE BIBBS, SILL COCKS AND/OR FAUCETS WITH HOSE CONNECTIONS SHALL HAVE A VACUUM BREAKER.
 - GRAVITY FLOW SYSTEMS HAVE SPACE PRIORITY FOR SLOPING PIPES, HOWEVER SLOPE MUST BE STARTED AT HIGHEST POINT POSSIBLE.
 - WATER PIPING SUBJECT TO FREEZING SHALL BE FREEZE PROTECTED. THIS INCLUDES ALL PIPING IN UNHEATED SPACES SUCH AS EXTERIOR WALLS.
 - INSULATE EXTERIOR ABOVE GRADE WATER PIPING WITH CELLULAR GLASS.
 - DO NOT LOCATE FLOOR DRAINS/SINKS UNDER EQUIPMENT. COORDINATE EXACT LOCATION OF DRAINS/SINKS WITH EQUIPMENT FURNISHED.
 - ALL PLUMBING VENTS SHALL BE 2" MINIMUM, UNLESS NOTED OTHERWISE.
 - PROVIDE ACCESS PANEL AT EACH LOCATION WHERE A VALVE OR OTHER DEVICE REQUIRING SERVICE IS LOCATED ABOVE AN INACCESSIBLE CEILING OR INSIDE A WALL. ACCESS PANEL SHALL BE FIRE RATED IF INSTALLED IN A FIRE RATED CEILING OR WALL.
 - A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK WHETHER SHOWN ON THE DRAWINGS OR NOT.
 - ANY PIPE THAT PASSES UNDER A FOOTING OR THROUGH A FOUNDATION WALL SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE. SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL.
 - LOCATIONS OF EXISTING BELOW GRADE OR CONCEALED UTILITIES ARE BASED ON REFERENCE MATERIALS PROVIDED TO THE ENGINEER AND HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL LOCATE CONCEALED ELEMENTS AND NOTIFY ENGINEER IF VARIANCES BETWEEN THESE DOCUMENTS AND ACTUAL FIELD CONDITIONS EXIST AND MAY MATERIALLY AFFECT THE DESIGN INTENT.
 - PROVIDE WATER SUPPLY ISOLATION VALVES AT EACH BRANCH CONNECTION AND FOR EACH BATHROOM GROUP. LOCATE VALVES SO ACCESSIBLE OR PROVIDE ACCESS PANEL IN CEILING.
 - FLOOR DRAIN BODY SHALL BE SET SO STRAINER CAN BE ADJUSTED TO MINIMUM -1/4" BELOW TOP OF SLAB AND SET IN LOWEST POINT OF FLOOR SLAB. REMOVE MINIMUM OF 4'-0" x 4'-0" SQUARE OF CONCRETE SLAB AROUND DRAIN CENTER POINT AND POUR NEW 1ST LIFT OF CONCRETE UP TO CLAMPING FLANGE AND THEN FINISH WITH TOPPING. SLOPE TOPPING AT MINIMUM 1/8" PER FOOT TO DRAIN. INSTALL WATERPROOF MEMBRANE BENEATH TOPPING AND SECURE IN DRAIN BODY CLAMPING FLANGE. ADJUST DRAIN STRAINER TOP TO BE FLUSH WITH LOWEST POINT OF NEW TOPPING. AFTER INSTALLATION CONTRACTOR SHALL CONFIRM WATER WILL FLOW FREELY TO DRAIN WITH NO PONDING ON FINISHED FLOOR.
 - PROVIDE PLENUM HEAT WRAP ON SANITARY, VENT AND RAIN LEADER PVC PIPES IN CEILING PLENUM, 3M FIRE BARRIER PLENUM WRAP 5A+ OR APPROVED EQUAL.

GAS FUEL NOTES

- INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA PLUMBING CODE, FLORIDA FUEL GAS CODE, AND LOCAL PLUMBING CODES. WHERE CONFLICTS OCCUR BETWEEN CODES AND BETWEEN THE CONSTRUCTION DOCUMENTS AND CODES, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- TEST, INSPECT, AND PURGE NATURAL GAS PIPING ACCORDING TO NFPA 54 AND AUTHORITIES HAVING JURISDICTION.
- INSTALLATION OF EQUIPMENT AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR MAINTENANCE.
- GRAVITY FLOW SYSTEMS HAVE SPACE PRIORITY FOR SLOPING PIPES, HOWEVER SLOPE MUST BE STARTED AT HIGHEST POINT POSSIBLE.
- PAINT GAS PIPING EXPOSED TO VIEW WITH ONE COAT PRIMER AND TWO COATS OF GLOSS ENAMEL (YELLOW).

ABBREVIATIONS			
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AF	ABOVE FLOOR	IMB	ICE MAKER
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CW	CAN WASH	SD	STORM DRAIN
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ECO	EXTERIOR CLEANOUT	TYP	TYPICAL
EX	EXISTING	UR	URINAL
EW/C	ELECTRIC WATER COOLER	VS	VENT STACK
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- ### COMMISSIONING NOTES
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- ### GENERAL NOTES
- DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.
 - FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, CONTRACTOR IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF CONTRACTOR PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFICIENCIES ASSOCIATED THEREWITH.
 - BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH CONTRACTOR WILL BE OBLIGED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON CONTRACTOR'S PART.
 - THE CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH CONTRACTOR'S WORK.
 - CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR SEQUENCING AND COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
 - ALL WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
 - ERECT AND MAINTAIN ALL REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
 - COORDINATE AND SEQUENCE ALL CLEANING AND CONSTRUCTION WORK. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
 - THE CONTRACTOR SHALL STRICTLY BE HELD TO THE PROJECT SCHEDULE. HE SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO FULLY SUBMITLIZE, PROTECT AND COMPLETE THE WORK.
 - THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS.
 - THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND PROVIDE CONTINUOUS CLEANING OF ALL DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENTS IS MADE.
 - THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE OWNER AT COMPLETION OF CONSTRUCTION.
 - CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS CERTIFIED THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO "SHOP DRAWINGS, PRODUCT DATA AND SAMPLES".
 - 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 SUBMITTALS 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 ARCHITECT/ENGINEER'S APPROVAL OF SUBMITTALS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
 - PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKER BOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED MATERIALS.
 - NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
 - SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
 - CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE, SMOKE, AND ACOUSTICAL WALL ASSEMBLIES.
 - BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. FLOOR SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
 - CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
 - CONTRACTOR SHALL GUARANTEE CONSTRUCTION FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING AND SHORING AS PART OF HIS WORK AND OSHA STANDARD CFR 1926.850 SUBPART P FOR ALL UTILITY TRENCHES IN EXCESS OF 5 FEET DEEP. CONTRACTOR SHALL INDICATE WITHIN HIS BID THE METHODS OF EXCAVATION AND TRENCH SAFETY STANDARD AND A SEPARATE LINE ITEM COST OF COMPLIANCE WITH THE STANDARD.

COORDINATION NOTES

- CONTRACTOR TO COORDINATE THE LOCATION, ALIGNMENT, ELEVATION AND/OR SPACING OF ANY EXPOSED DEVICE, FIXTURE, AND/OR PIECE OF EQUIPMENT WITH THE ARCHITECTURAL FLOOR PLANS, ELEVATIONS, AND/OR REFLECTED CEILING PLANS. DISCREPANCIES AND/OR CONFLICTS CONTAINED WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. IF AN EXPOSED ITEM IS NOT INDICATED ON THE ARCHITECTURAL DOCUMENTS NOTIFY THE ARCHITECT FOR CLARIFICATION OF PLACEMENT PRIOR TO INSTALLATION.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR SPECIFIC LOCATIONS OF CEILING MOUNTED DEVICES. DEVICES SHALL BE INSTALLED IN THE CENTER OF CEILING TILES WHERE ACOUSTICAL CEILING SYSTEMS ARE SPECIFIED AND ON THE SAME CENTERLINES WITH OTHER ADJACENT CEILING MOUNTED DEVICES IN THE SAME SPACE. IF A DEVICE'S LOCATION IS NOT CLEARLY INDICATED OR THERE IS A CONFLICT WITHIN THE CONTRACT DOCUMENTS NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATION.
- LOCATION OF WALL AND FLOOR MOUNT DEVICES IS DIAGRAMMATIC AND SHOWN FOR CLARITY. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF DEVICES. WHERE NOT INDICATED ON ARCHITECT'S PLAN COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
- AT EXTERIOR LOCATIONS AND IN SPACES WITH EXPOSED STRUCTURE EXPOSED UTILITIES (INCLUDING PIPING, DUCTWORK, RACEWAYS, ETC.) SHALL BE INSTALLED NEATLY, BUNDLED TOGETHER TO EXTENT POSSIBLE AND RUN AT RIGHT ANGLES TO BUILDING LINES. THESE UTILITIES SHALL BE PAINTED TO MATCH ADJACENT SURFACE OR AS DIRECTED BY ARCHITECT. HANGERS, STEEL SHAPES AND SLOTTED STEEL SUPPORTS SHALL BE PAINTED TO MATCH RACEWAY OR AS DIRECTED BY ARCHITECT. TO EXTENT POSSIBLE CONTRACTOR SHALL AVOID EXPOSED RACEWAYS BY INSTALLING UTILITIES BELOW GRADE, IN WALL, OR ABOVE ADJACENT CONCEALED CEILING SPACES.
- PROVIDE ACCESS PANELS IN CEILING WHERE ANY DEVICE OR EQUIPMENT REQUIRING SERVICE (INCLUDING DAMPERS, VALVES, JUNCTION BOXES, CONTROLLERS, SMOKE DETECTORS, ETC.) IS LOCATED ABOVE OR BEHIND AN INACCESSIBLE CEILING OR WALL. ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR APPROPRIATE UL LABEL. COORDINATE LOCATION AND TYPE OF ACCESS PANEL WITH ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE SELF-ADHESIVE IDENTIFICATION LABELS (CLEAR WITH BLACK LETTERS) ON CEILING WHERE VALVES, MECHANICAL EQUIPMENT, OR ELECTRICAL EQUIPMENT ARE LOCATED ABOVE CEILINGS. AT ACCESSIBLE CEILINGS APPLY LABEL TO CEILING GRID WITHIN REACH OF DEVICE; AT INACCESSIBLE CEILINGS APPLY LABEL TO ACCESS PANEL.
- PROVIDE CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR OR GROUND MOUNTED EQUIPMENT WITH #4 REBAR @ 0' C. EACH WAY AND 3/4" CHAMFERED TOP EDGE. PADS ON CONCRETE SLAB SHALL BE 4" HIGH AND DOWELED INTO SLAB WITH #4 REBAR EXTENDING 2" INTO PAD, 3" INTO SLAB AND EPOXIED IN PLACE AND SPACED 12" O.C. AROUND PERIMETER OF PAD. PADS ON EARTH SHALL BE MINIMUM 6" THICK AND LAYED OUT TO EXTEND A MINIMUM OF 4" ABOVE GRADE AT HIGHEST GRADE LEVEL. COMPACT EARTH BELOW PAD PRIOR TO PAD CONSTRUCTION.
- IN ROOMS WITH EXPOSED STRUCTURE AND WITHOUT CEILING. INSTALL DUCTWORK, PIPING, CONDUIT AND JUNCTION BOXES NEATLY, PERPENDICULAR TO BUILDING LINES. DUCTWORK SHALL BE STRAPPED (NO UNISTRUT AND THREADED ROD HANGERS) NEATLY. CONDUIT AND JUNCTION BOXES SHALL BE SECURED TO UNDERSIDE OF STRUCTURAL SLAB. PAINT DUCTWORK, PIPING, INSULATION, CONDUIT, BOXES, STRAPS, ETC. FLAT BLACK OR AS OTHERWISE DIRECTED BY ARCHITECT.

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NOTE:
11" x 17" SHEETS ARE PLOTTED AT 1/2
THE SCALE NOTED ON THESE DRAWINGS

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Florida Registry #2485
Matthew T. Scaringe, P.E. #54639

SWHS CAMPUS IMPROVEMENTS- CLASSROOM ADDITION

REV	DATE	DESCRIPTION

PROJECT PHASE	
CONSTRUCTION DOCUMENTS	

DATE	DRAWN BY
20 FEBRUARY 2026	JDR
PROJECT NO	CHECKED BY
68202	MTS
SHEET TITLE	
GENERAL NOTES	

SHEET NO	REV NO
P001	

FIRESTOP SCHEDULE OF THROUGH PENETRATION SYSTEMS. BASIS OF DESIGN: HILTI, INC.

TYPE OF PENETRANT	F-RATING (HR)	CONCRETE FLOORS		CONCRETE OR BLOCK WALLS		GYPSUM WALLS		HILTI PRODUCTS
		BASIS OF DESIGN UL SYSTEM						
CIRCULAR BLANK OPENINGS (0000-0999)	1	F-A-0006, C-AJ-0055, C-AJ-0090	C-AJ-0055, C-AJ-0090	--		--		CP 680, CP 618, FS-ONE MAX, CFS-BL
	2	F-A-0006, C-AJ-0055, C-AJ-0090	C-AJ-0055, C-AJ-0090	--		--		CP 680, CP 618, FS-ONE MAX, CFS-BL
METAL PIPES OR CONDUIT (1000-1999)	1	C-AJ-1226, F-A-1028, F-A-1017	C-AJ-1226, W-J-1067, W-J-1020	W-L-1054, W-L-1058, W-L-1164, W-L-1506	--		CP 680, FS-ONE MAX, CP 606, CFS-S SIL GG, CFS-D, MINERAL WOOL	
	2	C-AJ-1226, F-A-1028, F-A-1017	C-AJ-1226, W-J-1067, W-J-1020, W-J-1248	W-L-1054, W-L-1058, W-L-1164, W-L-1506	--		CP 680, FS-ONE MAX, CP 606, CFS-S SIL GG, CFS-D, MINERAL WOOL	
NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, FRP, ENT) (2000-2999)	1	F-A-2053, F-A-2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	--		CP 680, CP 643N, MINERAL WOOL, CP 644, FS-ONE MAX, CFS-S SIL SL, CFS-S SIL CG, CP 648	
	2	F-A-2053, F-A-2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2371, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	--		CP 680, CP 643N, MINERAL WOOL, CP 644, FS-ONE MAX, CFS-S SIL SL, CFS-S SIL CG, CP 648	
SINGLE OR BUNDLED CABLES (3000-3999)	1	F-A-3007, C-AJ-3095, C-AJ-3180, C-AJ-3283	W-J-3036, C-AJ-3095, C-AJ-3180, W-J-3060, W-J-3167	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3414, W-L-3396	--		CP 680, CP 653, FS-ONE MAX, CP 618, CP 606, CFS-D, CFS-CC	
	2	F-A-3007, C-AJ-3095, C-AJ-3334, F-A-3060	W-J-3036, C-AJ-3095, C-AJ-3180, W-J-3060, W-J-3167, W-J-3189	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3414, W-L-3396	--		CP 680, CP 653, FS-ONE MAX, CP 618, CP 606, CFS-D, CFS-CC	
CABLE TRAY (4000-4999)	1	C-AJ-4034, C-AJ-4035	W-J-4027, C-AJ-4034, C-AJ-4035	W-L-4011, W-L-4019, W-L-4081	--		CFS-BL, FS-ONE MAX, CP 620, CP 618	
	2	C-AJ-4034, C-AJ-4035	W-J-4027, C-AJ-4034, C-AJ-4035	W-L-4011, W-L-4019, W-L-4081	--		CFS-BL, FS-ONE MAX, CP 620, CP 618	
ELECTRICAL BUSWAY (6000-6999)	1	C-AJ-6006, C-AJ-6017, F-A-6002, C-AJ-6036	C-AJ-6006, C-AJ-6017, C-AJ-6036	--	--		CP 637, FS-ONE MAX, CP 620, CFS-BL, MINERAL WOOL, CFS-S SIL GG, CFS-S SIL SL	
	2	C-AJ-6006, C-AJ-6017, F-A-6042, C-AJ-6036	C-AJ-6006, C-AJ-6017, C-AJ-6036	--	--		CP 637, FS-ONE MAX, CP 620, CFS-BL, MINERAL WOOL, CFS-S SIL GG, CFS-S SIL SL	

- NOTES:**
1. JOBSITE CONDITIONS OF EACH THROUGH-PENETRATION FIRESTOP SYSTEM MUST MEET ALL DETAILS OF THE UL-CLASSIFIED SYSTEM SELECTED.
 2. IF JOBSITE CONDITIONS DO NOT MATCH ANY UL-CLASSIFIED SYSTEMS IN THE SCHEDULES ABOVE, CONTACT FIRESTOP MANUFACTURER FOR ALTERNATIVE SYSTEMS OR ENGINEER JUDGMENT DRAWINGS.
 3. WHERE MORE THAN ONE APPLICABLE UL-CLASSIFIED SYSTEM IS LISTED IN THE SCHEDULES, CHOOSE THE UL SYSTEM WHICH IS MOST ECONOMICAL FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM.
 4. COORDINATE WORK WITH OTHER TRADES TO ENSURE THAT PENETRATION OPENING SIZES ARE APPROPRIATE FOR PENETRANT LOCATIONS, AND VICE-VERSA.
 5. ALL THROUGH-PENETRATION FIRESTOPS SHALL BE PROVIDED BY ONE MANUFACTURER. APPROVED MANUFACTURERS: HILTI, RECTORSAL, 3M, STI.

PLUMBING PLAN KEYNOTES

1. PROVIDE POTABLE SERVICE AWWA BUTTERFLY VALVE INSIDE 24"x24" IN-GRADE TIER 22 POLYMER CONCRETE. OPEN BOTTOM VALVE BOX. MARKING ON LINE SHALL READ "WATER SERVICE". OLDCASTLE POLYMER: 2424 OR APPROVED EQUAL. SEE DETAIL HP502.
2. SERVICE ENTRANCE - SEE DETAIL AP501. PROVIDE SINGLE PIECE BUILDING RISER - SEE SPECIFICATION SECTION 221116 "DOMESTIC WATER PIPING".
3. 3-INCH INDIRECT WASTE FUNNEL WITH INTEGRAL BACKWATER VALVE FOR CONDENSATE DISCHARGE. ZURN Z325 OR APPROVED EQUAL. SEE DETAIL FP501.
4. 119 GALLON GAS WATER HEATER. FLOOR MOUNTED WITH EXPANSION TANK, RECIRCULATION PUMP AND THERMOSTATIC MIXING VALVE. SEE DETAIL JP502.
5. PROVIDE BALL VALVE AND EXTEND 3/8" THROUGH HIGH FLOW FILTRATION SYSTEM TO ICE MACHINE. 3M: ICE160-S OR APPROVED EQUAL.
6. ROUTE WATER TO DISHWASHER FROM SINK SUPPLY THROUGH CABINET.
7. PROVIDE GAS SERVICE MAIN SHUT-OFF VALVE, REGULATOR, AND METER. POUR 4" HIGH EQUIPMENT PAD BELOW ASSEMBLY. SEE DETAIL CP501. COORDINATE WITH SERVICE UTILITY PROVIDER FOR SPECIFIC REQUIREMENTS.
8. DOMESTIC WATER BOOSTER PUMP. SEE DETAIL DP503.
9. PROVIDE 1250 GALLON GREASE TRAP. SEE DETAIL AP503.
10. WATER SUPPLY PIPING BELOW GRADE SHALL BE SOFT-ANNEALED COPPER TUBING WITH NO FITTINGS BELOW SLAB. SEE DETAIL DP502.
11. PROVIDE SHUT-OFF AND GAS SOLENOID VALVE FOR GAS PIPING SERVING KITCHEN EQUIPMENT. SEE DETAIL CP501.
12. CONNECT TO STORM DRAIN CATCH BASIN. SEE CIVIL PLANS.
13. ROUTE FIXTURE ROUGH-IN AROUND WINDOWS AND STRUCTURE BELOW AND IN WALL CAVITY AS SHOWN. TURN 2" SANITARY DOWN INSIDE CABINET THROUGH FLOOR TO CEILING SPACE BELOW. ROUTE 2" VENT FROM SANITARY TEE THROUGH CABINET TO WALL CAVITY AND UP TO CEILING OVERHEAD. ROUTE WATER SUPPLIES DOWN IN WALL CAVITY, INTO CABINET AND TO FIXTURE.
14. 16"x16" RECESSED CLASSROOM SHUT-OFF VALVE BOX WITH NON-LOCKABLE 1/4 TURN LATCH. SEE DETAIL BP503.
15. PROVIDE T&S BRASS B-0692-26-CH POT FILLERS FOR FISH TANKS. INSTALL AT 5' 0" AFF.
16. SUPPORT GAS PIPING BEHIND APPLIANCES TO WALL MOUNT SUPPORT BRACKET. SEE DETAIL AP502.
17. PROVIDE 18" SQUARE CATCH BASIN WITH GRATE AND 3" OUTLET TO RECEIVE DISCHARGE FROM ELEVATOR SUMP FORCE MAIN. TURN FORCE MAIN UP 12" ABOVE GRADE AND ELBOW DOWN TO DISCHARGE OVER GRATE WITH MINIMUM 2" AIR GAP.
18. ELEVATOR PIT SUMP PUMP AND OIL SPOTTER - SEE DETAIL EP502.
19. GARBAGE CAN WASH WITH WALL SUPPLY CONTROL BOX ASSEMBLY AND VACUUM BREAKER - SEE DETAIL CP503. ZURN Z1982-3-WB-31, Z1464.
20. CONNECT TO HDPE DRAINAGE PIPING - SEE CIVIL PLANS.
21. ROUTE WATER SUPPLIES DOWN WALL CAVITY, AROUND WINDOWS AND COLUMN THROUGH CABINET TO FIXTURE.
22. 12" DIAMETER AREA DRAIN WITH 4" OUTLET, NICKEL BRONZE TOP. WATTS FD-450-4-1 OR APPROVED EQUAL. SEE DETAIL FP502.
23. INSTALL MULTIPLE CIRCULATORS IN SERIES, DIRECTLY MOUNTED INLET TO OUTLET. PROVIDE COMMON STRAINER CHECK VALVE AND ISOLATION VALVES FOR PUMPS.
24. IN-LINE BACKWATER VALVE WITH ACCESS HOUSING. WATTS BV-2403 OR APPROVED EQUAL.
25. WRAP COMBUSTION AIR AND INTAKE AIR DUCT WITH DUCT FIRE WRAP (3M 615+ OR APPROVED EQUAL) WRAP FROM BOILER ROOM WALL UNTIL EXTERIOR WALL.

EMI architects

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PLANNING INTERIORS
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NOTE:
11" x 17" SHEETS ARE PLOTTED AT 1/2
THE SCALE NOTED ON THESE DRAWINGS

H2 ENGINEERING

H2E PROJECT No. 24-003A
114 EAST 5th AVENUE TALLAHASSEE, FL
32303 PHONE 850-224-7922
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Florida Registry #2485
Matthew T. Sorrigato, P.E. #54639

**SWHS CAMPUS IMPROVEMENTS-
CLASSROOM ADDITION**

REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE
20 FEBRUARY 2026

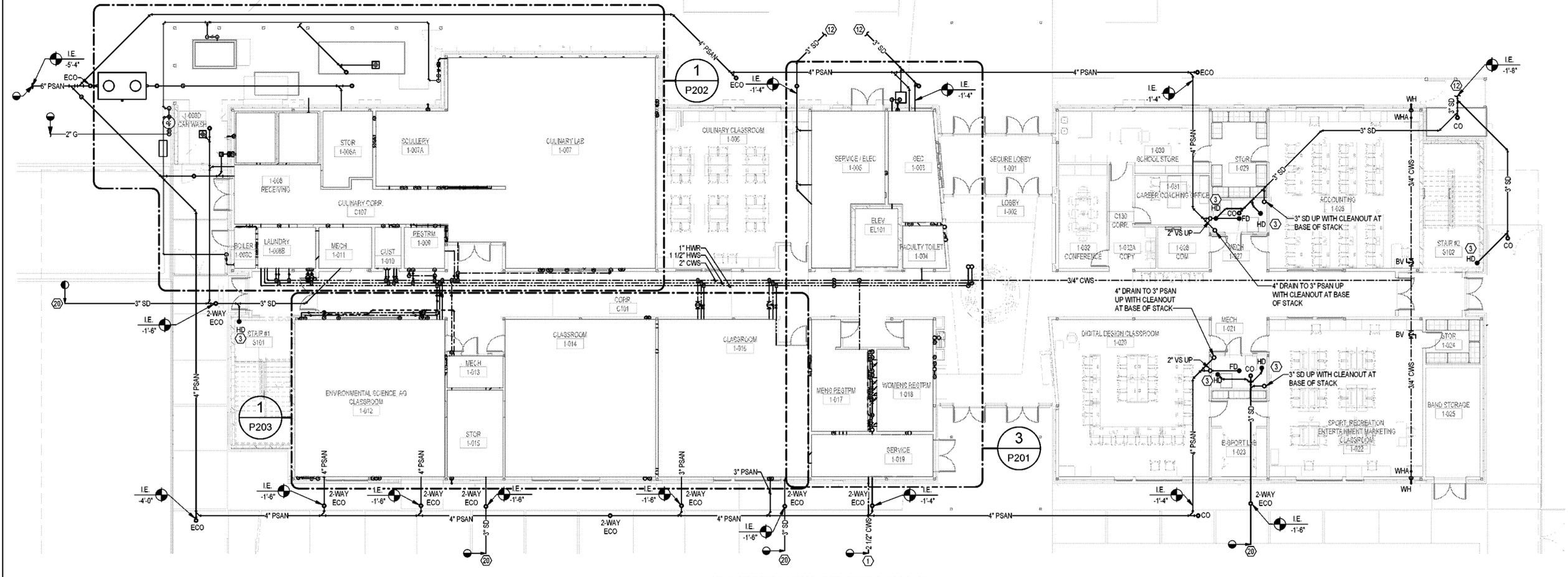
PROJECT NO
68202

SHEET TITLE
FIRST FLOOR PLAN

DRAWN BY
JDR

CHECKED BY
MTS

SHEET NO
P101



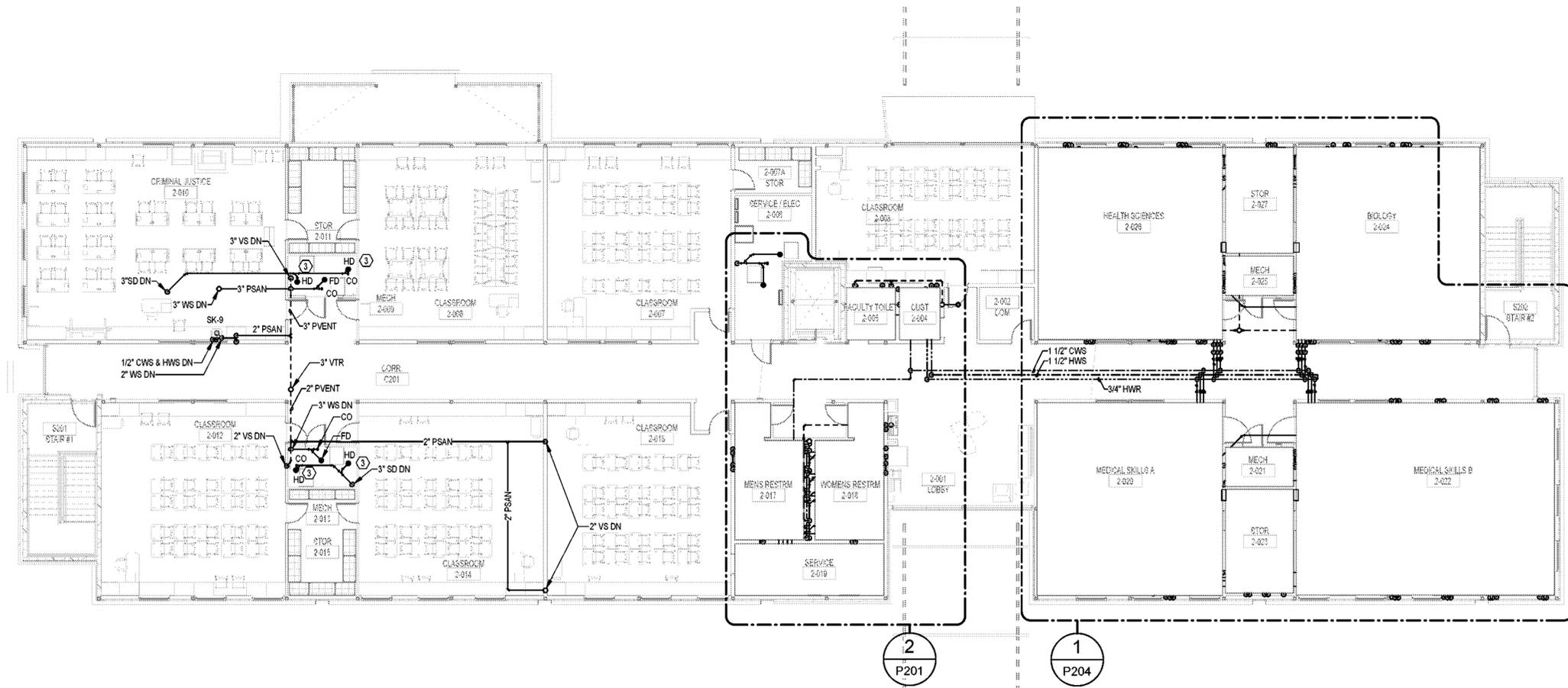
NOTE: INVERT ELEVATIONS ARE RELATIVE TO FINISHED FLOOR ELEVATION

FIRST FLOOR PLAN - PLUMBING
3/32" = 1'-0"

NORTH

PLUMBING PLAN KEYNOTES

- ① PROVIDE POTABLE SERVICE AWWA BUTTERFLY VALVE INSIDE 24"x24" IN-GRADE TIER 22 POLYMER CONCRETE. OPEN BOTTOM VALVE BOX. MARKING ON LINE SHALL READ "WATER SERVICE". OLDCASTLE POLYMER, 2424 OR APPROVED EQUAL. SEE DETAIL H/P502.
- ② SERVICE ENTRANCE - SEE DETAIL A/P501. PROVIDE SINGLE PIECE BUILDING RISER - SEE SPECIFICATION SECTION 221116 "DOMESTIC WATER PIPING".
- ③ 3-INCH INDIRECT WASTE FUNNEL WITH INTEGRAL BACKWATER VALVE FOR CONDENSATE DISCHARGE. ZURN Z325 OR APPROVED EQUAL. SEE DETAIL F/P501.
- ④ 119 GALLON GAS WATER HEATER. FLOOR MOUNTED WITH EXPANSION TANK, RECIRCULATION PUMP AND THERMOSTATIC MIXING VALVE. SEE DETAIL J/P502.
- ⑤ PROVIDE BALL VALVE AND EXTEND 3/8" THROUGH HIGH FLOW FILTRATION SYSTEM TO ICE MACHINE. 3M ICE160-S OR APPROVED EQUAL.
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- ⑨ PROVIDE 1250 GALLON GREASE TRAP. SEE DETAIL A/P503.
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- ⑯ SUPPORT GAS PIPING BEHIND APPLIANCES TO WALL MOUNT SUPPORT BRACKET. SEE DETAIL A/P502.
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SECOND FLOOR PLAN - PLUMBING
 3/32" = 1'-0"
 NORTH



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NOTE:
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 Matthew T. Sorrigio, P.E. #54639

**SWHS CAMPUS IMPROVEMENTS-
 CLASSROOM ADDITION**

REV	DATE	DESCRIPTION

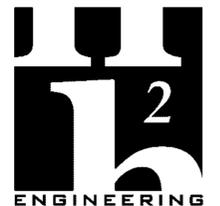
PROJECT PHASE
 CONSTRUCTION DOCUMENTS

DATE 20 FEBRUARY 2026	DRAWN BY JDR
PROJECT NO 68202	CHECKED BY MTS

SHEET TITLE
SECOND FLOOR PLAN

SHEET NO P102	REV NO
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NOTE:
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Matthew T. Souther, P.E. #54939

SWHS CAMPUS IMPROVEMENTS-
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DATE
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JDR

PROJECT NO
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CHECKED BY
MTS

SHEET TITLE

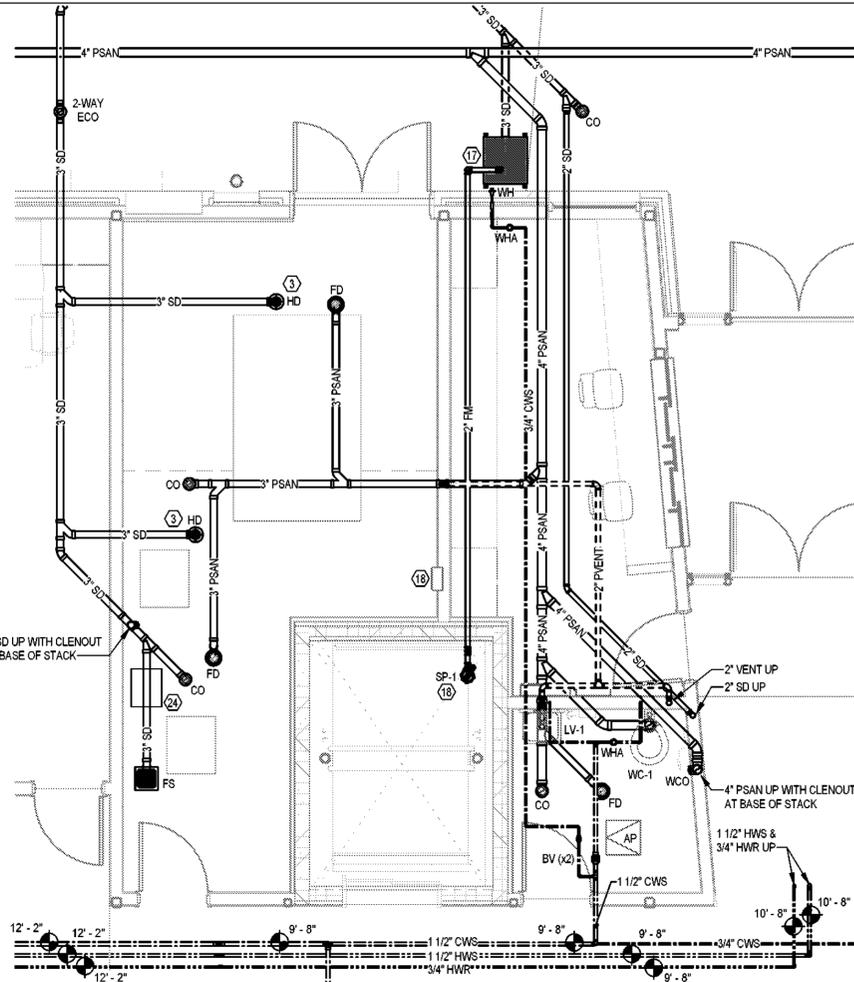
ENLARGED PLANS - RESTROOMS

SHEET NO
P201

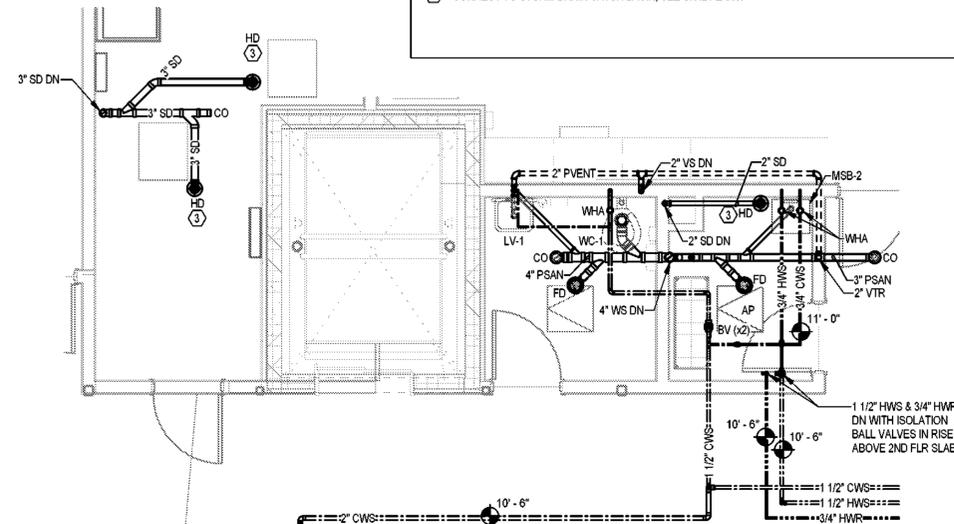
REV NO

PLUMBING PLAN KEYNOTES

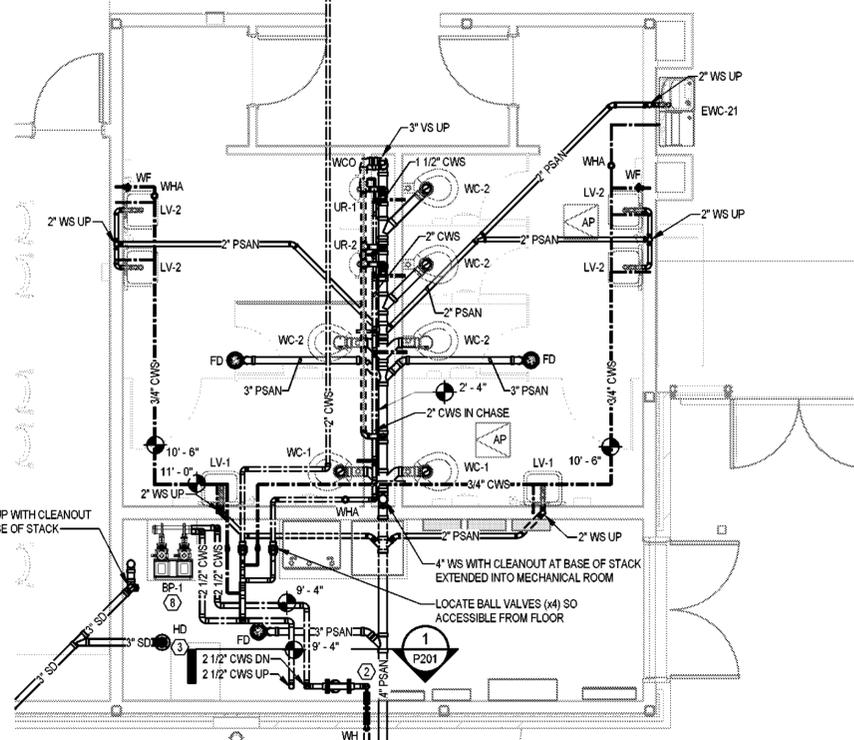
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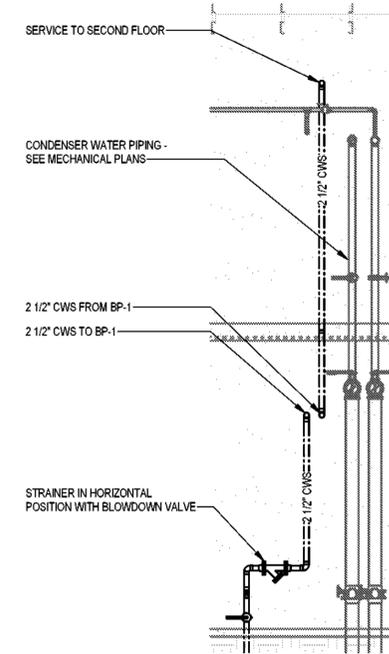
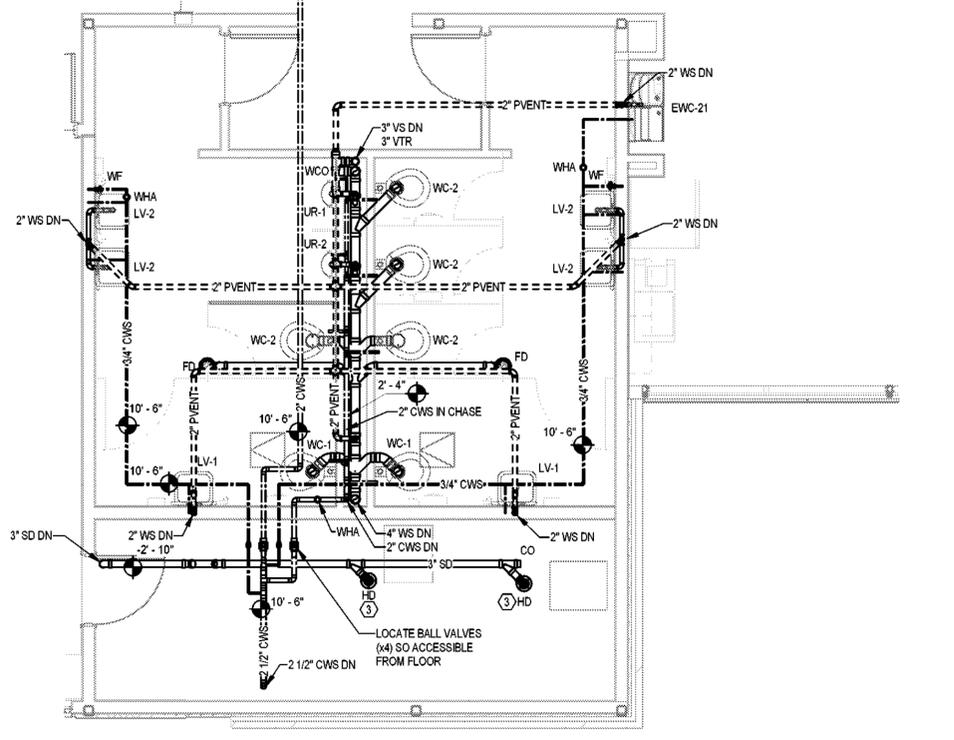
3 1ST FLOOR RESTROOMS
P201 1/4" = 1'-0"



2 2ND FLOOR RESTROOMS
P201 1/4" = 1'-0"



1 SERVICE ENTRANCE
P201 1/4" = 1'-0"



FOOD SERVICE EQUIPMENT SCHEDULE

BY DIVISION 11			BY DIVISION 22					REMARKS
EQUIP. TAG	EQUIPMENT (NOTE 1)	QTY.	CWS PIPE SIZE	HWS PIPE SIZE	WASTE PIPE SIZE	WASTE CONNECTION	GAS PIPE SIZE	
K-1	CONVECTION OVEN (DOUBLE STACKED)	2	-	-	-	-	1"	100
K-2	RANGE WITH OVEN AND GRIDDLE	6	-	-	-	-	1"	215
K-3	ICE MACHINE	1	1/2"	-	-	INDIRECT	-	-
K-4	COMMERCIAL DISHWASHER	1	-	3/4"	2"	INDIRECT	-	-
K-5	GAS DEEP FRYER	1	-	-	-	-	1"	50
K-6	PREP-TABLE WITH SINK	2	1/2"	1/2"	2"	INDIRECT	-	-
K-7	3-COMPARTMENT SINK	1	(2) 1/2"	(2) 1/2"	2"	INDIRECT	-	-
K-8	PRE-RINSE SINK	1	1/2"	1/2"	2"	INDIRECT	-	-
K-9	FILTERED WATER DISPENSER	1	1/2"	-	2"	DIRECT	-	-

NOTES:
1 SEE ARCHITECTURE FOR MORE INFORMATION ON FIXTURES AND ACCESSORIES.

PLUMBING PLAN KEYNOTES

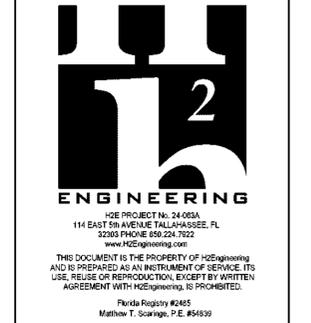
- PROVIDE POTABLE SERVICE AWWA BUTTERFLY VALVE INSIDE 24"x24" IN-GRADE TIER 22 POLYMER CONCRETE. OPEN BOTTOM VALVE BOX MARKING ON LINE SHALL READ "WATER SERVICE". OLDCASTLE POLYMER, 2424 OR APPROVED EQUAL. SEE DETAIL HP502
- SERVICE ENTRANCE - SEE DETAIL AP501. PROVIDE SINGLE PIECE BUILDING RISER - SEE SPECIFICATION SECTION 221116 "DOMESTIC WATER PIPING".
- 3-INCH INDIRECT WASTE FUNNEL WITH INTEGRAL BACKWATER VALVE FOR CONDENSATE DISCHARGE. ZURN Z325 OR APPROVED EQUAL. SEE DETAIL FP501.
- 119 GALLON GAS WATER HEATER. FLOOR MOUNTED WITH EXPANSION TANK, RECIRCULATION PUMP AND THERMOSTATIC MIXING VALVE. SEE DETAIL JP502
- PROVIDE BALL VALVE AND EXTEND 3/8" THROUGH HIGH FLOW FILTRATION SYSTEM TO ICE MACHINE. 3M; ICE160-S OR APPROVED EQUAL
- ROUTE WATER TO DISHWASHER FROM SINK SUPPLY THROUGH CABINET.
- PROVIDE GAS SERVICE MAIN SHUT-OFF VALVE, REGULATOR, AND METER. POUR 4" HIGH EQUIPMENT PAD BELOW ASSEMBLY. SEE DETAIL CP501. COORDINATE WITH SERVICE UTILITY PROVIDER FOR SPECIFIC REQUIREMENTS.
- DOMESTIC WATER BOOSTER PUMP. SEE DETAIL DP503.
- PROVIDE 1250 GALLON GREASE TRAP. SEE DETAIL AP503.
- WATER SUPPLY PIPING BELOW GRADE SHALL BE SOFT-ANNEALED COPPER TUBING WITH NO FITTINGS BELOW SLAB. SEE DETAIL DP502.
- PROVIDE SHUT-OFF AND GAS SOLENOID VALVE FOR GAS PIPING SERVING KITCHEN EQUIPMENT. SEE DETAIL CP501.
- CONNECT TO STORM DRAIN CATCH BASIN. SEE CIVIL PLANS.
- ROUTE FIXTURE ROUGH-IN AROUND WINDOWS AND STRUCTURE BELOW AND IN WALL CAVITY AS SHOWN. TURN 2" SANITARY DOWN INSIDE CABINET THROUGH FLOOR TO CEILING SPACE BELOW. ROUTE 2" VENT FROM SANITARY TEE THROUGH CABINET TO WALL CAVITY AND UP TO CEILING OVERHEAD. ROUTE WATER SUPPLIES DOWN IN WALL CAVITY, INTO CABINET AND TO FIXTURE.
- 16"x16" RECESSED CLASSROOM SHUT-OFF VALVE BOX WITH NON-LOCKABLE 1/4 TURN LATCH. SEE DETAIL BP503.
- PROVIDE T&S BRASS B-0692-26-CH POT FILLERS FOR FISH TANKS. INSTALL AT 5' 0" AFF.
- SUPPORT GAS PIPING BEHIND APPLIANCES TO WALL MOUNT SUPPORT BRACKET. SEE DETAIL AP502.
- PROVIDE 18" SQUARE CATCH BASIN WITH GRATE AND 3" OUTLET TO RECEIVE DISCHARGE FROM ELEVATOR SUMP FORCE MAIN. TURN FORCE MAIN UP 12" ABOVE GRADE AND ELBOW DOWN TO DISCHARGE OVER GRATE WITH MINIMUM 2" AIR GAP.
- ELEVATOR PIT SUMP PUMP AND OIL SPOTTER - SEE DETAIL EP502.
- GARBAGE CAN WASH WITH WALL SUPPLY CONTROL BOX ASSEMBLY AND VACUUM BREAKER - SEE DETAIL CP503. ZURN Z1982-3-WB-31, Z1464.
- CONNECT TO HDPE DRAINAGE PIPING - SEE CIVIL PLANS.
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- 12" DIAMETER AREA DRAIN WITH 4" OUTLET, NICKEL BRONZE TOP. WATTS FD-450-4-1 OR APPROVED EQUAL. SEE DETAIL FP502.
- INSTALL MULTIPLE CIRCULATORS IN SERIES, DIRECTLY MOUNTED INLET TO OUTLET. PROVIDE COMMON STRAINER CHECK VALVE AND ISOLATION VALVES FOR PUMPS.
- IN-LINE BACKWATER VALVE WITH ACCESS HOUSING. WATTS BV-2403 OR APPROVED EQUAL.
- WRAP COMBUSTION AIR AND INTAKE AIR DUCT WITH DUCT FIRE WRAP (3M 615+ OR APPROVED EQUAL) WRAP FROM BOILER ROOM WALL UNTIL EXTERIOR WALL.



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PLANNING INTERIORS
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**SWHS CAMPUS IMPROVEMENTS-
CLASSROOM ADDITION**

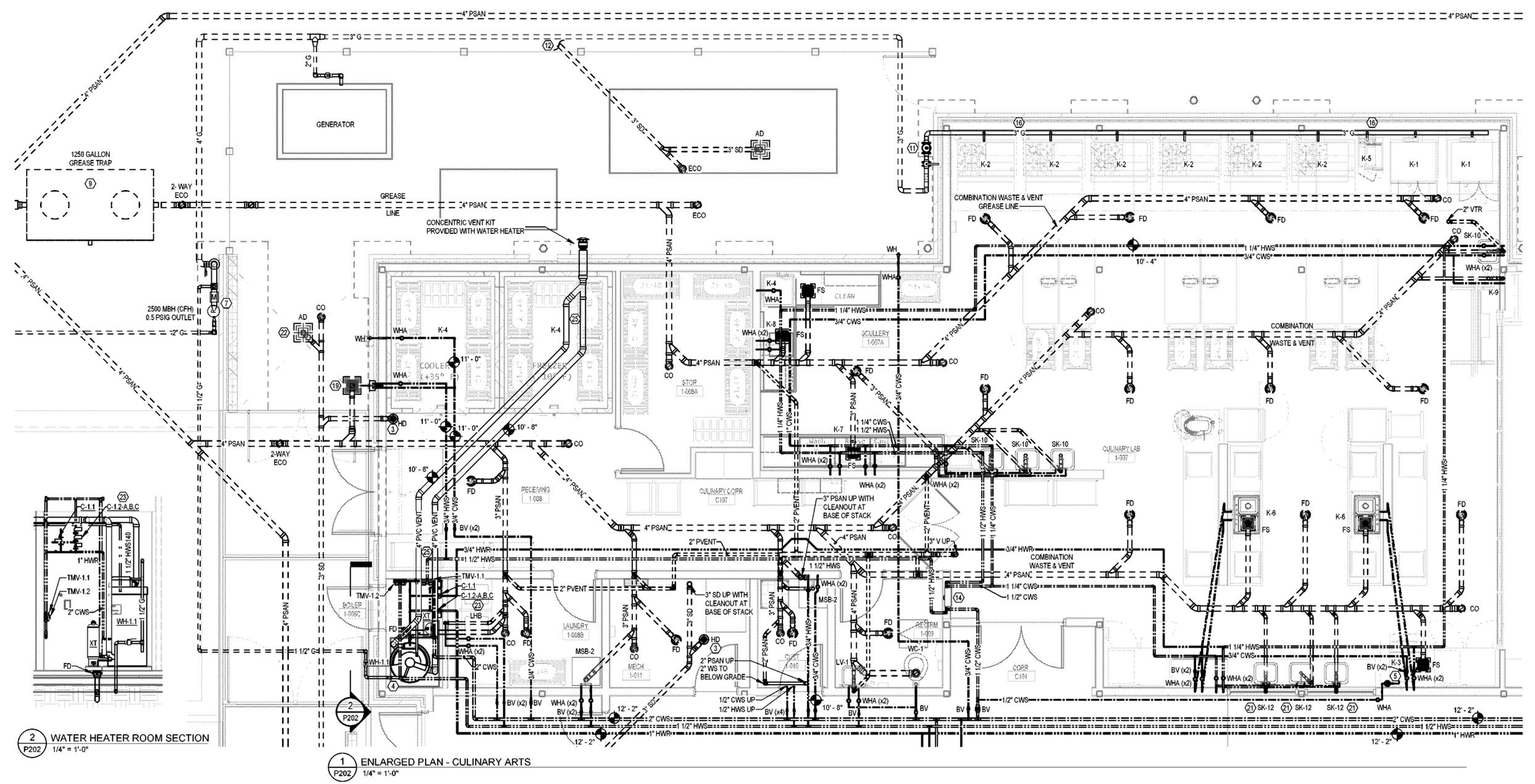
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PROJECT PHASE
CONSTRUCTION DOCUMENTS

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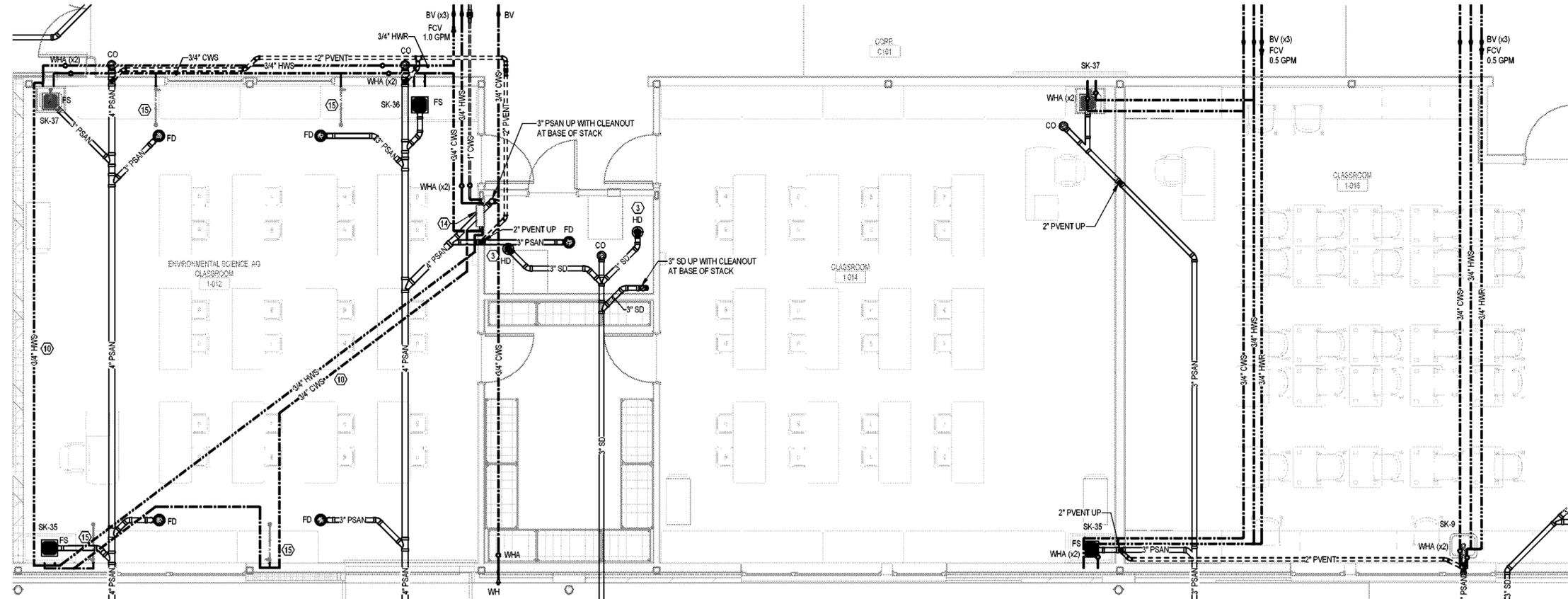
**ENLARGED PLAN 1ST FLR
CULLINARY**

SHEET NO P202	REV NO
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PLUMBING PLAN KEYNOTES

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- ⑤ PROVIDE BALL VALVE AND EXTEND 3/8" THROUGH HIGH FLOW FILTRATION SYSTEM TO ICE MACHINE. 3M, ICE160-S OR APPROVED EQUAL.
- ⑥ ROUTE WATER TO DISHWASHER FROM SINK SUPPLY THROUGH CABINET.
- ⑦ PROVIDE GAS SERVICE MAIN SHUT-OFF VALVE, REGULATOR, AND METER. POUR 4" HIGH EQUIPMENT PAD BELOW ASSEMBLY - SEE DETAIL CP501. COORDINATE WITH SERVICE UTILITY PROVIDER FOR SPECIFIC REQUIREMENTS.
- ⑧ DOMESTIC WATER BOOSTER PUMP. SEE DETAIL DP503.
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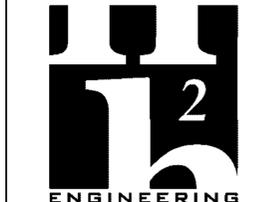
1 ENLARGED PLAN - 1ST FLOOR CLASSROOMS
P203 1/4" = 1'-0"



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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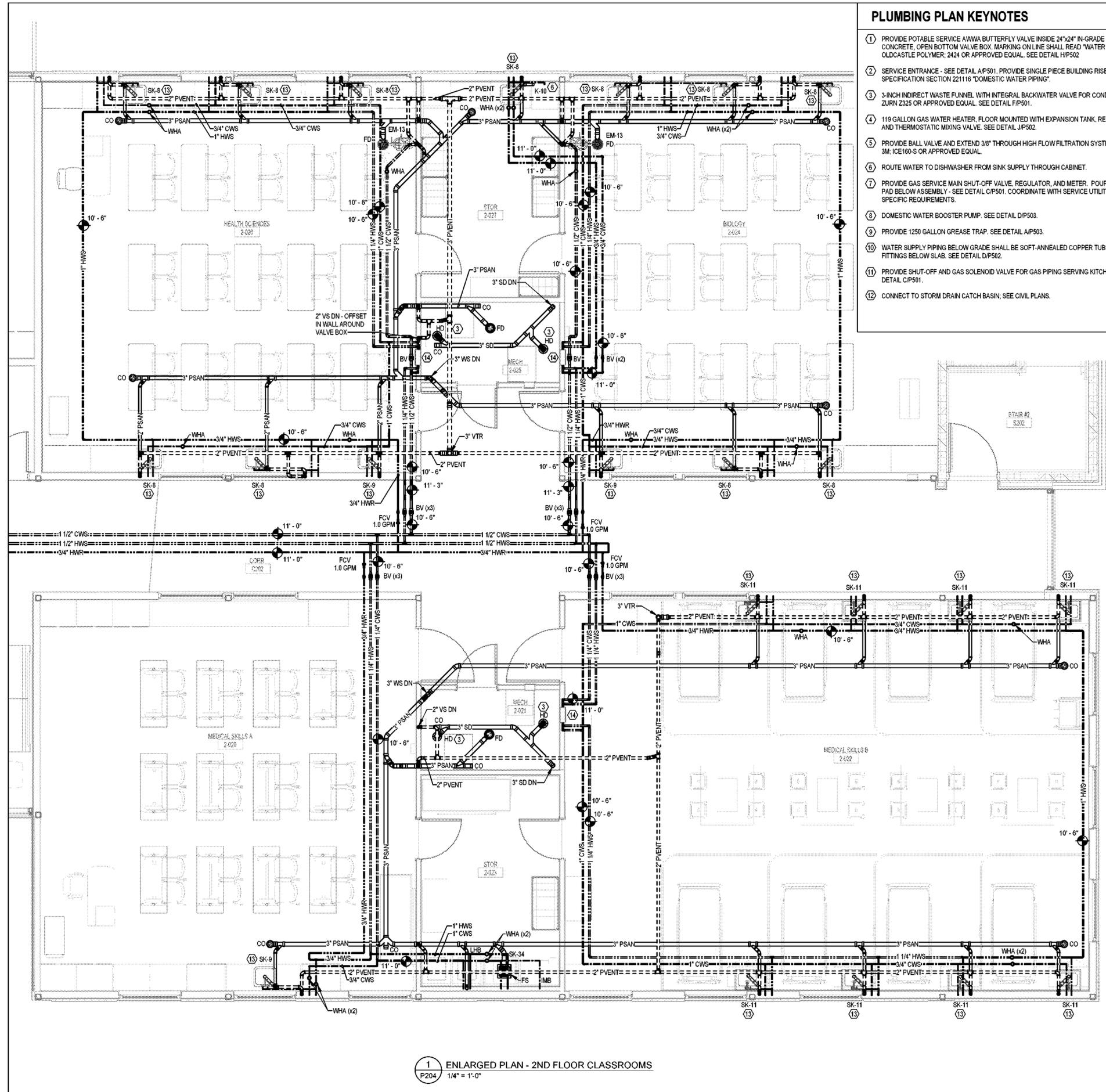
REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE 20 FEBRUARY 2026	DRAWN BY JDR
PROJECT NO 68202	CHECKED BY MTS

SHEET TITLE
**ENLARGED PLAN 1ST FLR
CLASSROOMS**

SHEET NO P203	REV NO
-------------------------	--------



PLUMBING PLAN KEYNOTES

- 1 PROVIDE POTABLE SERVICE AWWA BUTTERFLY VALVE INSIDE 24"x24" IN-GRADE TIER 22 POLYMER CONCRETE. OPEN BOTTOM VALVE BOX. MARKING ON LINE SHALL READ "WATER SERVICE". OLDCASTLE POLYMER, 2424 OR APPROVED EQUAL. SEE DETAIL HP502
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Matthew T. Scavigna, P.E. #54939

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CLASSROOM ADDITION**

REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE 20 FEBRUARY 2026	DRAWN BY JDR
PROJECT NO 68202	CHECKED BY MTS

**ENLARGED PLAN 2ND FLR
CLASSROOMS**

SHEET NO P204	REV NO
-------------------------	--------

1 ENLARGED PLAN - 2ND FLOOR CLASSROOMS
P204 1/4" = 1'-0"



ARCHITECTURE
PLANNING INTERIORS
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CLASSROOM ADDITION

REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE
20 FEBRUARY 2026

PROJECT NO
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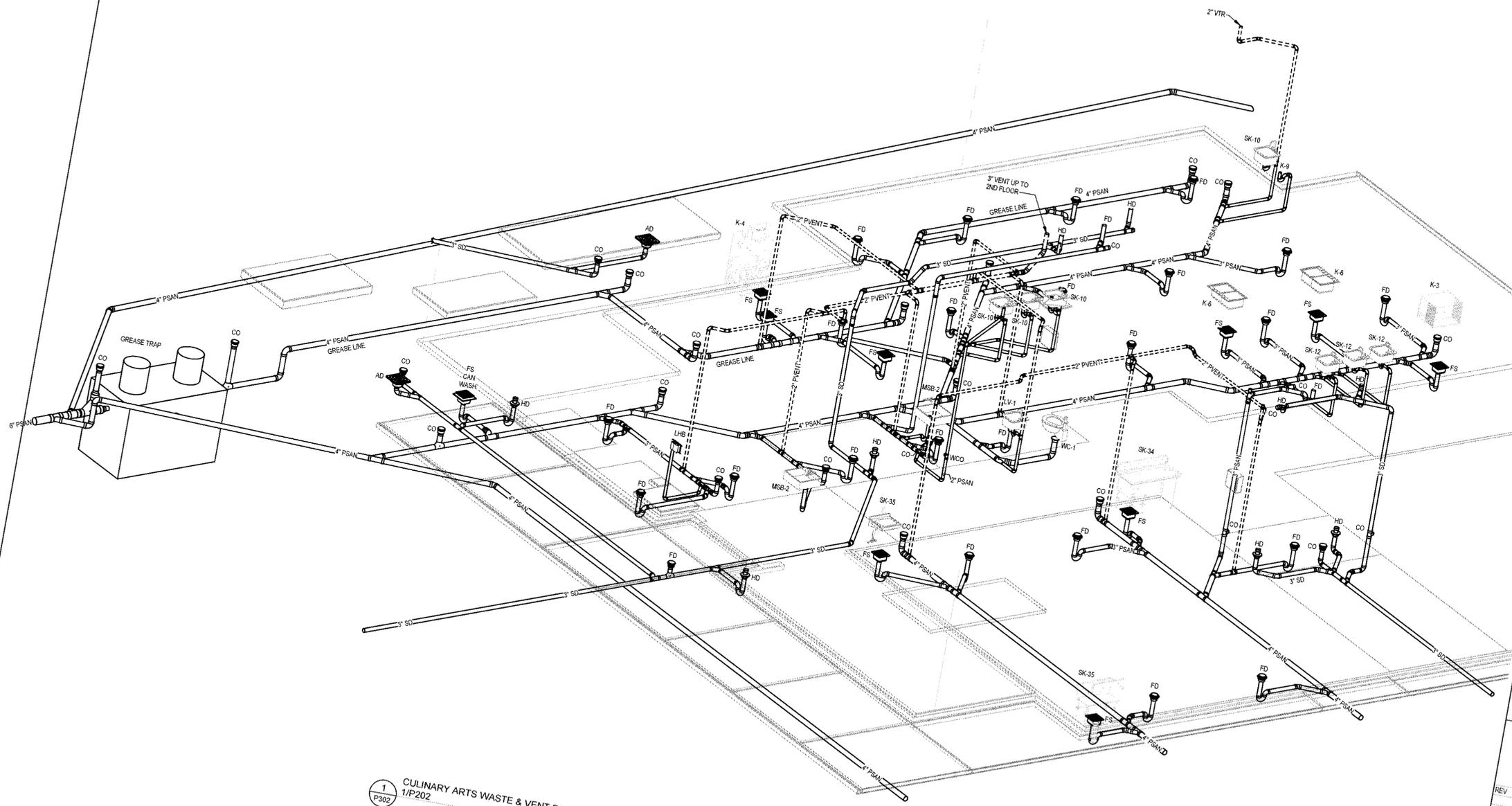
SHEET TITLE
RISERS

SHEET NO
P302

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JDR

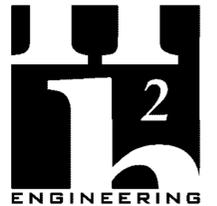
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REV NO



1
P302
CULINARY ARTS WASTE & VENT RISER - REFERENCE PLAN
1/P202

NOTE:
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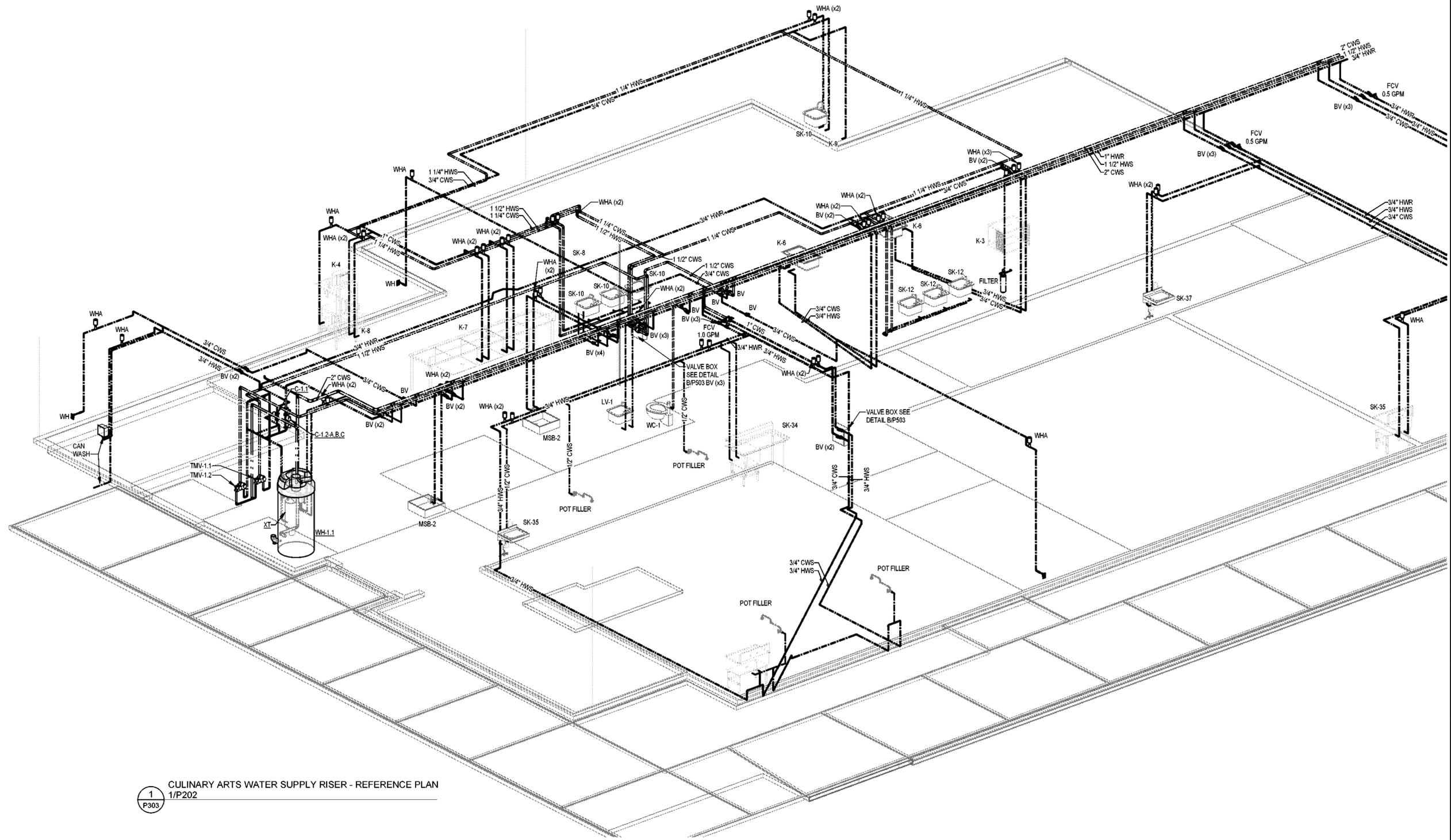
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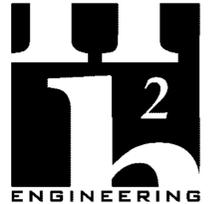
SHEET TITLE
RISERS

SHEET NO P303	REV NO
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1
P303 CULINARY ARTS WATER SUPPLY RISER - REFERENCE PLAN
1/P202

NOTE:
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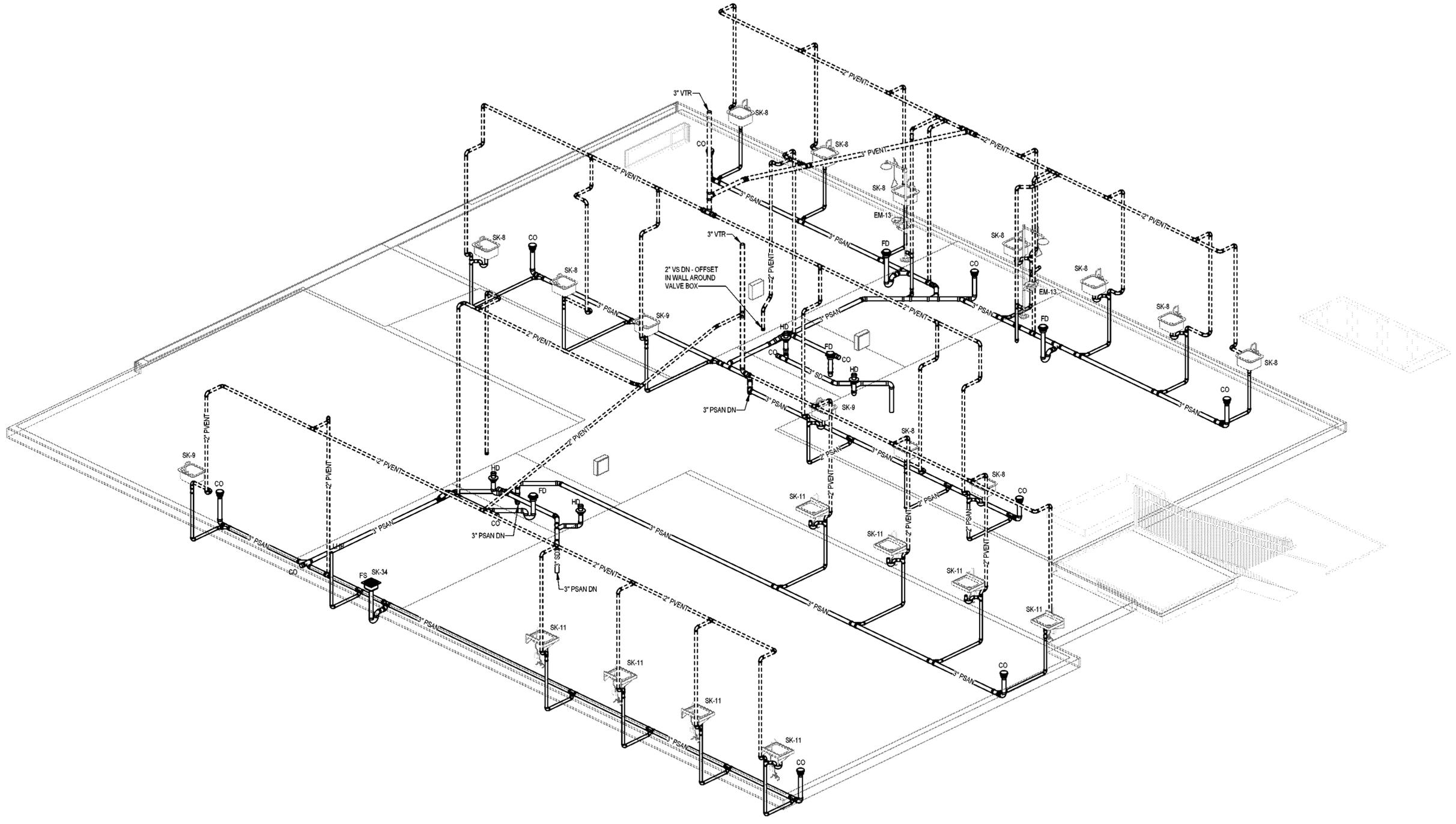
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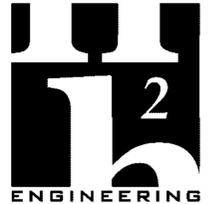
SHEET TITLE
RISERS

SHEET NO P304	REV NO
-------------------------	--------



1
P304
2ND FLOOR SCIENCE WASTE & VENT RISER - REFERENCE PLAN
1/P204

NOTE:
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CLASSROOM ADDITION**

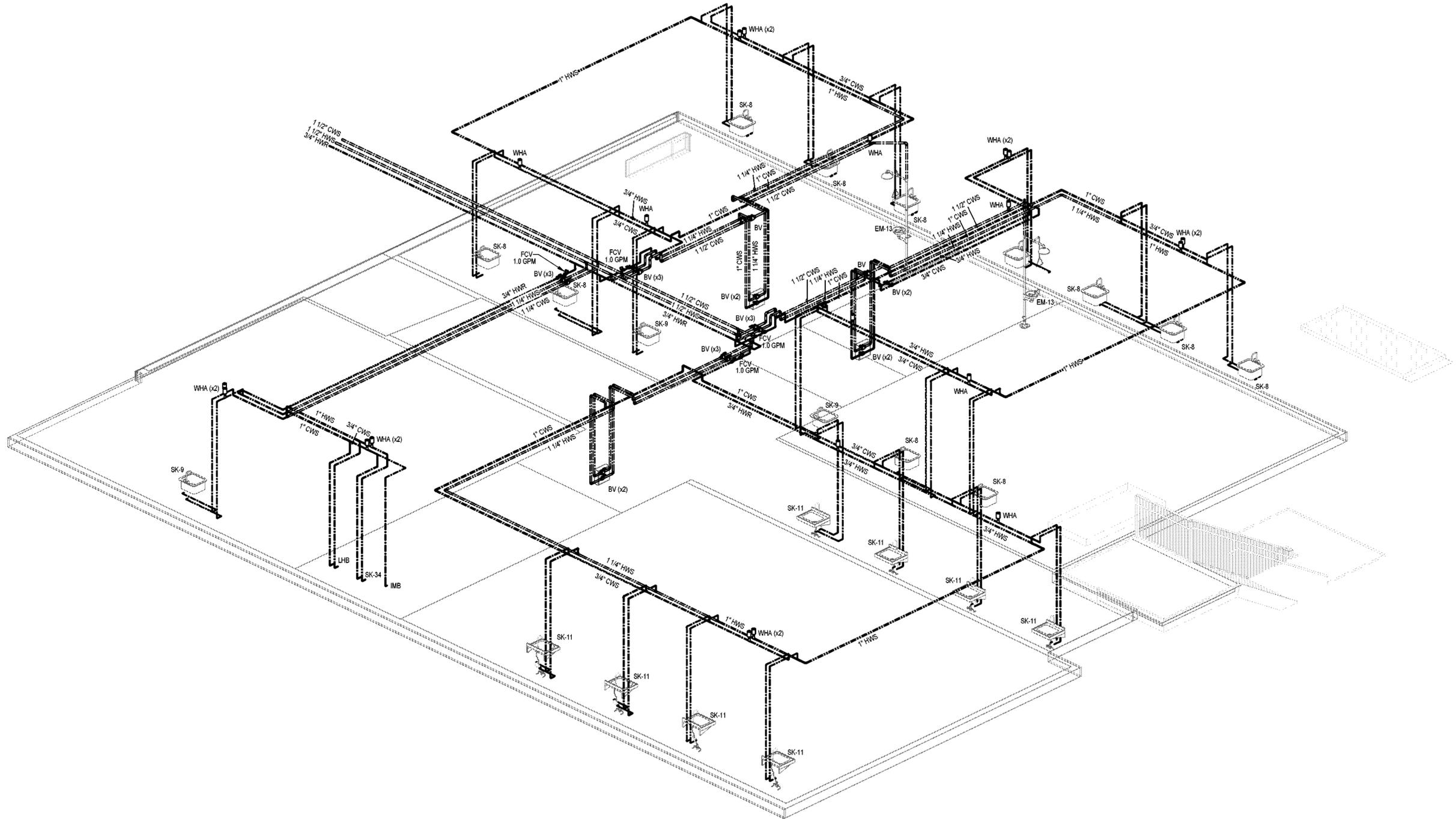
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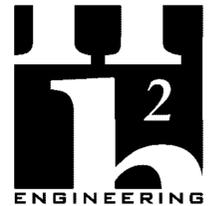
SHEET TITLE
RISERS

SHEET NO P305	REV NO
-------------------------	--------



1
P305 2ND FLOOR SCIENCE SUPPLY RISER - REFERENCE PLAN 1/P204

NOTE:
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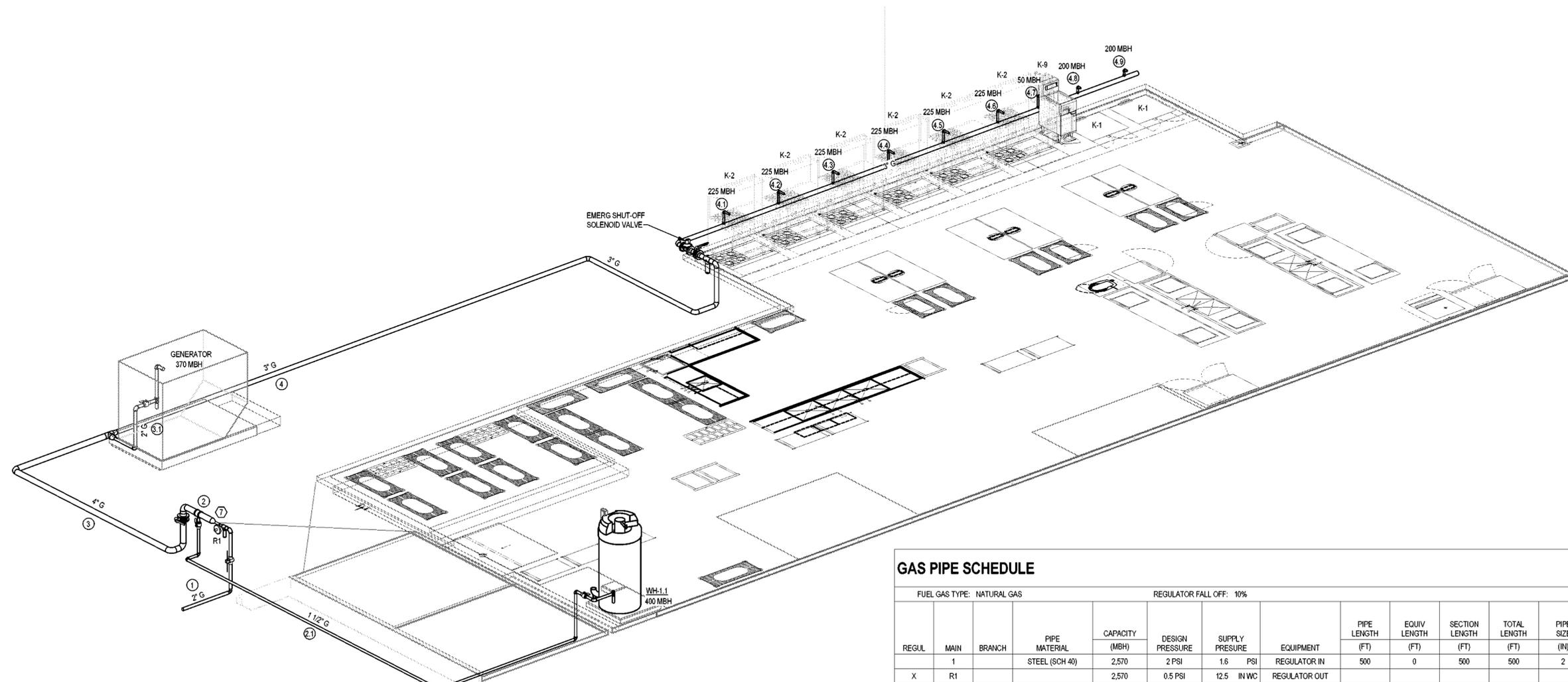


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SWHS CAMPUS IMPROVEMENTS-
CLASSROOM ADDITION



1 GAS RISER
P306

GAS PIPE SCHEDULE

FUEL GAS TYPE: NATURAL GAS				REGULATOR FALL OFF: 10%				PIPE LENGTH	EQUIV LENGTH	SECTION LENGTH	TOTAL LENGTH	PIPE SIZE
REGUL	MAIN	BRANCH	PIPE MATERIAL	CAPACITY (MBH)	DESIGN PRESSURE	SUPPLY PRESSURE	EQUIPMENT	(FT)	(FT)	(FT)	(FT)	(IN)
	1		STEEL (SCH 40)	2,570	2 PSI	1.6 PSI	REGULATOR IN	500	0	500	500	2
X	R1		STEEL (SCH 40)	2,570	0.5 PSI	12.5 IN WC	REGULATOR OUT					
	2		STEEL (SCH 40)	2,570	0.5 PSI			5	38	43	43	4
		2.1	STEEL (SCH 40)	400	0.5 PSI	11.9 IN WC	WATER HEATER	50	122	172	215	1 1/2
	3		STEEL (SCH 40)	2,170	0.5 PSI			30	23	53	96	4
		3.1	STEEL (SCH 40)	370	0.5 PSI	12.0 IN WC	GENERATOR	10	77	87	183	1 1/2
	4		STEEL (SCH 40)	1,800	0.5 PSI			100	35	135	232	3
		4.1	STEEL (SCH 40)	225	0.5 PSI	11.5 IN WC	RANGE	1	49	50	281	1 1/4
		4.2	STEEL (SCH 40)	225	0.5 PSI	11.5 IN WC	RANGE	1	49	50	281	1 1/4
		4.3	STEEL (SCH 40)	225	0.5 PSI	11.5 IN WC	RANGE	1	49	50	281	1 1/4
		4.4	STEEL (SCH 40)	225	0.5 PSI	11.5 IN WC	RANGE	1	49	50	281	1 1/4
		4.5	STEEL (SCH 40)	225	0.5 PSI	11.5 IN WC	RANGE	1	49	50	281	1 1/4
		4.6	STEEL (SCH 40)	225	0.5 PSI	11.5 IN WC	RANGE	1	49	50	281	1 1/4
		4.7	STEEL (SCH 40)	50	0.5 PSI	11.7 IN WC	FRYER	1	29	30	262	3/4
		4.8	STEEL (SCH 40)	200	0.5 PSI	11.6 IN WC	OVEN	1	49	50	281	1 1/4
		4.9	STEEL (SCH 40)	200	0.5 PSI	11.6 IN WC	OVEN	1	49	50	281	1 1/4

NOTES:
1 GAS PIPING SIZED USING BRANCH LENGTH METHOD FROM POINT OF DELIVERY TO EITHER REGULATOR OR APPLIANCE.
SEE FLORIDA BUILDING CODE - FUEL GAS EQUATIONS 4-1 & 4-2

REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE
20 FEBRUARY 2026

DRAWN BY
JDR

PROJECT NO
68202

CHECKED BY
MTS

SHEET TITLE
GAS RISER

SHEET NO
P306

REV NO

PLUMBING FIXTURE ACCESSORY SCHEDULE

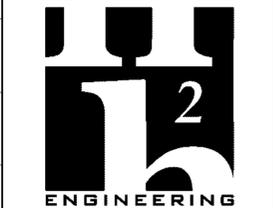
ACCESSORY TAG	ACCESSORY DESCRIPTION	MANUFACTURER AND MODEL NUMBER
DR-LV-C	1-1/4" CHROME PLATED BRASS OFFSET DRAIN WITH TAIL PIECE. PROVIDE A PERFORATED FLAT CHROME BRASS STRAINER.	ELKAY: LKAD174 OR APPROVED EQUAL
DR-SK-STD	TYPE 304 STAINLESS STEEL DRAIN, REMOVABLE CONICAL STRAINER BASKET, 1-1/2" STAINLESS STEEL OFFSET TAILPIECE.	ELKAY: LK35LK33LKAD35 OR APPROVED EQUAL
DR-SK-LAB	TYPE 304 STAINLESS STEEL FLANGE WITH BRASS BODY DRAIN WITH REMOVABLE STRAINER BASKET AND ROTARY LEVER, 1-1/2" CHROME PLATED BRASS TAILPIECE.	ELKAY: LK24RT OR APPROVED EQUAL
FCT-LV-0.5-AUTO-B	SINGLE INLET, DECK MOUNTED FAUCET, A.D.A. COMPLIANT, 4" CENTERSET, POLISHED CHROME PLATED BRASS, LEAD FREE, BATTERY POWERED, SENSOR OPERATED, 0.5 GPM AERATOR WITH PRESSURE COMPENSATING FLOW CONTROL.	AMERICAN STANDARD: 605B.205 OR APPROVED EQUAL
FCT-MSB	SERVICE SINK FAUCET, POLISHED CHROME PLATED BRASS, BUILT-IN STOPS, VACUUM BREAKER, LEVER HANDLES, WALL BRACE, 3/4" HOSE OUTLET.	T&S BRASS: B-0685-BSTP OR APPROVED EQUAL
FCT-SK-0.5-KITC-HNDWSH	8" WALL MOUNT HANDWASH FAUCET, POLISHED CHROME PLATED BRASS, 9" HIGH GOOSENECK SPOUT, LEVER HANDLES, 0.5 GPM AT 60 PSI AERATOR.	T&S BRASS: B-1147 OR APPROVED EQUAL
FCT-SK-0.5-MED-HNDWSH	8" DECK MOUNT MIXING FAUCET, QUARTER-TURN COMPRESSION CARTRIDGES WITH SPRING CHECKS, WRIST BLADE HANDLES, SWIVEL GOOSENECK WITH 0.5GPM AT 60 PSI AERATOR.	T&S BRASS: B-2866-05-VF05 OR APPROVED EQUAL
FCT-SK-1.5-KITC-PREP	8" DECK MOUNT MIXING FAUCET, QUARTER-TURN COMPRESSION CARTRIDGES WITH SPRING CHECKS, WRIST BLADE HANDLES, HIGH-ARC SWIVL GOOSENECK WITH 1.5 GPM AT 60 PSI AERATOR.	T&S BRASS: B-2859 OR APPROVED EQUAL
FCT-SK-1.2-LAB	8" WALL MOUNT MIXING FAUCET, QUARTER-TURN COMPRESSION CARTRIDGES WITH SPRING CHECKS, LEVER HANDLES, 6" SWING SPOUT, 1.2 GPM AT 60 PSI AERATOR.	T&S BRASS: B-0331-VF22-EL OR APPROVED EQUAL
FCT-SK-1.5-GEN	SINGLE LEVER DECK MOUNTED FAUCET, POLISHED CHROME PLATED BRASS, 9" SWING SPOUT, 1.5 GPM AT 80 PSI AERATOR, SOFT-CLOSING VALVE WITH INTEGRAL FLOW CONTROL AND ADJUSTABLE STOP TO RESTRICT EXTREME TEMPERATURES.	T&S BRASS: B-2731 OR APPROVED EQUAL
FV-0.125-AUTO-B	EXPOSED AUTOMATIC URINAL FLUSH VALVE, A.D.A. COMPLIANT, POLISHED CHROME PLATED, 0.125 GPF, BATTERY POWERED, SENSOR OPERATED, 3/4" SCREWDRIVER ANGLE STOP, VACUUM BREAKER, CAST WALL FLANGE.	AMERICAN STANDARD: 6063.013.002 OR APPROVED EQUAL
FV-1.28-AUTO-B	EXPOSED AUTOMATIC WATER CLOSET FLUSH VALVE, A.D.A. COMPLIANT, POLISHED CHROME PLATED, 1.28 GPF, BATTERY POWERED, SENSOR OPERATED, 1" SCREWDRIVER ANGLE STOP, VACUUM BREAKER, CAST WALL FLANGE.	AMERICAN STANDARD: 6065.121.002 OR APPROVED EQUAL
HGR-MSB	STAINLESS STEEL HANGER, WITH THREE RUBER TOOL GRIPS.	FIAT: 889CC OR APPROVED EQUAL
HOSE-MSB	HEAVY DUTY, FLEXIBLE HOSE, 5/8" RUBBER, CLOTH REINFORCED, 3/4" BRASS COUPLING, TYPE 302 STAINLESS STEEL BRACKET WITH RUBBER GRIP.	FIAT: 832AA OR APPROVED EQUAL
RMGD-MSB	ALUMINUM RIM GUARD.	FIAT: 1238BB OR APPROVED EQUAL
SEAT-OPN-FRT	EXTRA HEAVY DUTY, OPEN FRONT, ELONGATED SEAT, WITHOUT COVER, SOLID PLASTIC, SELF-SUSTAINING CHECK TYPE HINGE. HINGES SHALL MATCH SEAT COLOR. STAINLESS STEEL POSTS FITTED WITH STAINLESS STEEL WASHERS AND NUTS.	BEMIS: 1655SSCT OR APPROVED EQUAL
TMV-SK	EXPOSED ROUGH BRONZE, THERMOSTATIC MIXING VALVE, ADJUSTABLE LIMIT STOP, ASSE 1070, LISTED FOR POINT OF USE APPLICATION. SET OUTLET TEMPERATURE TO 110°F.	LAWLER: 570 OR APPROVED EQUAL
TR-LV	CAST BRASS ADJUSTABLE P-TRAP, TUBING OUTLET, 1-1/4" x 1-1/2", CLEANOUT PLUG, POLISHED CHROME PLATED FINISH.	ELKAY: LK500 OR APPROVED EQUAL
TR-SK-STD	CAST BRASS ADJUSTABLE P-TRAP, TUBING OUTLET, 1-1/2" x 1-1/2", CLEANOUT PLUG, POLISHED CHROME PLATED FINISH.	KOHLER: K-9000-CP OR APPROVED EQUAL



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PLANNING INTERIORS
GRAPHICS

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NOTE:
11" x 17" SHEETS ARE PLOTTED AT 1/2
THE SCALE NOTED ON THESE DRAWINGS



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Matthew T. Scaringe, P.E. #54639

**SWHS CAMPUS IMPROVEMENTS-
CLASSROOM ADDITION**

REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE 20 FEBRUARY 2026	DRAWN BY JDR
PROJECT NO 68202	CHECKED BY MTS

SHEET TITLE
SCHEDULES

SHEET NO P402	REV NO
-------------------------	--------

THERMOSTATIC MIXING VALVES

DESIGNATION		TMV-SK	TMV-1.1	TMV-1.2
APPLICATION		POINT-OF-USE	HIGH / LOW	HIGH / LOW
SET-POINT	*F	115	140	120
MINIMUM FLOW	GPM	0.25	0.5	0.5
MAXIMUM FLOW	GPM	7	39	39
PRESSURE DROP @ MAX FLOW	PSI	10	10	10
RECIRCULATED SYSTEM		NO	YES	YES
ASSE COMPLIANCE		1070	1017	1017
MANUFACTURER		LAWLER	LAWLER	LAWLER
MODEL NUMBER		570-50	802-86008	802-86008
DETAIL REFERENCE			JF502	JF502

NOTES:

- 1 PROVIDE ROUGH BRASS FINISH

DOMESTIC WATER BOOSTER PUMP

DESIGNATION		BP-1	
CAPACITY	GPM	125	
MINIMUM SUCTION PRESSURE	PSIG	5	
DISCHARGE PRESSURE	PSIG	16	
MAXIMUM BOOSTER SYSTEM LOSS	PSI	5	
SURPLUS PRESSURE	PSI	5	
ELECTRICAL CHARACTERISTICS	V / PH	208 / 1	
MCA / MOCP (MOTOR 1)	AMPS - AMPS	23	- 25
MCA / MOCP (MOTOR 2)	AMPS - AMPS	23	- 25
MANUFACTURER		GRUNDFOS	
MODEL		CMBE TMM 10-54-U-C-E-D-H	
PUMPS			
QUANTITY		2	
CAPACITY SPLIT	LEAD / LAG	50% / 50%	
PUMP DIFFERENTIAL PRESSURE	FT	50	
SHUT-OFF PRESSURE	FT	180	
MOTOR HORSEPOWER	HP	2.3 x 2	
VFD		YES	
DETAIL REFERENCE		DIP503	

FIXTURE UNIT CALCULATIONS

FIXTURE TYPE	QUANTITY	WASTE		SUPPLY				TOTAL	
		UNIT	TOTAL	COLD		HOT		UNIT	TOTAL
				UNIT	TOTAL	UNIT	TOTAL		
DRINKING FOUNTAIN	2	0.5	1	0.25	0.5			0.25	0.5
LAVATORY (COLD WATER)	14	1	14	2	28			2	28
LAVATORY (HOT WATER)	1	1	1	1.5	1.5	1.5	1.5	2	2
SINK	28	2	56	2	56	2	56	3	84
MOP SERVICE BASIN	3	2	6	2.25	6.75	2.25	6.75	3	9
URINAL (3/4" VALVE)	4	4	16	5	20			5	20
WATER CLOSET (FLUSH VALVE)	15	6	90	10	150			10	150
HOSE BIBB / WALL HYDRANT	4			4	16			4	16
REFRIGERATOR / ICE MAKER	1			1	1			1	1
KITCHEN FIXTURES									
DISHWASHER	1	15	15			6	6	6	6
TRIPLE POT SINK	1	4	4	6	6	6	6	8	8
PREP SINK	2	4	8	2.5	5	2.5	5	3	6
HAND SINK	7	2	14	2.5	17.5	2.5	17.5	3	21
CAN WASH	1	2	2	6	6	6	6	6	6
LAUNDRY FIXTURES									
WASHING MACHINE (15 LB)	2	15	30	10	20	10	20	15	30
TOTAL FIXTURE UNITS			257		334		125		388
DOMESTIC WATER DEMAND (GPM)					114.5		19.2		124.6

OIL SPOTTER SYSTEM

DESIGNATION		OS - 1	
ELECTRICAL CHARACTERISTICS	V / PH	120 / 1	
MANUFACTURER		SJE-RHOMBUS	
MODEL		SJE OIL SPOTTER	
PART NUMBER		1033578	
DETAIL REFERENCE		EP502	

NOTES:

- 1 PROVIDE AUDIBLE ALARM AND LOCATE IN ELEVATOR MACHINE ROOM.
- 2 PROVIDE OIL SPOTTER SYSTEM FOR EACH ELEVATOR SUMP PUMP SHOWN ON DRAWINGS.

SUMP PUMP SCHEDULE

DESIGNATION		SP - 1	
CAPACITY	GPM	50	
TOTAL HEAD	FT.	15	
MOTOR HORSEPOWER	HP	1/2	
ELECTRICAL CHARACTERISTICS	V / PH	120 / 1	
MANUFACTURER		LITTLE GIANT	
MODEL		10ECH-OIA-RF	
DETAIL REFERENCE		EP502	

NOTES:

- 1 PROVIDE OIL SENSING SUMP SYSTEM; LITTLE GIANT OA-1S SERIES.

GAS FIRED STORAGE WATER HEATERS

DESIGNATION		WH-1.1	
FUEL TYPE		NATURAL GAS	
STORAGE	GAL	119	
INPUT CAPACITY	MBTUH	399	
FIRING TYPE		MODULATING	
ENTERING WATER TEMPERATURE	*F	70	
LEAVING WATER TEMPERATURE	*F	140	
TEMPERATURE RISE	*F	70	
RECOVERY RATE	GPH	658	
ELECTRICAL CHARACTERISTICS	V / PH	120 / 1	
MINIMUM CIRCUIT AMPACITY	AMPS	7	
MAXIMUM OVERCURRENT PROTECTION	AMPS	15	
MANUFACTURER		A.O. SMITH	
MODEL NUMBER		BTH-400A	
DETAIL REFERENCE		HP502	

NOTES:

- 1 PROVIDE LOW WATER CUT-OFF.
- 2 PROVIDE CONDENSATE NEUTRALIZATION KIT; MODEL: 100374577
- 3 PROVIDE CONCENTRIC VENT KIT; MODEL: 100113124

CIRCULATOR PUMPS

DESIGNATION		C-1.1	C-1.2A,B,C
SERVICE		DHW	DHW
CAPACITY	GPM	3	6
TOTAL DYNAMIC HEAD	FT.	30	27
SHUT-OFF HEAD	FT.	35	32
PUMP SEAL		MECHANICAL	MECHANICAL
MOTOR SPEED	RPM	3,250	3,250
MOTOR HORSEPOWER	HP	1/8	1/8
MOTOR WINDING		FULL	FULL
ELECTRICAL CHARACTERISTICS	V / PH	120 / 1	120 / 1
NOTES		1	1
MANUFACTURER		TACO	TACO
MODEL NUMBER		009-SF5	011-SF4
DETAIL REFERENCE		HP501	HP501

NOTES:

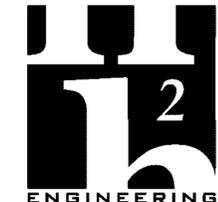
- 1 PROVIDE TACO 00 TIMER/AQUASTAT WITH 7 DAY DIGITAL PROGRAMMABLE TIMER. SET TIMER FOR ALLOWABLE OPERATION DURING OCCUPIED HOURS AND AQUASTAT TO CYCLE PUMP.
- 2 PLUMBING CONTRACTOR TO COORDINATE INSTALLATION OF TIMER AND AQUASTAT WITH ELECTRICAL CONTRACTOR AND INSTALL PER MANUFACTURER INSTRUCTIONS.



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NOTE:
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THE SCALE NOTED ON THESE DRAWINGS



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Florida Registry #4485
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SWHS CAMPUS IMPROVEMENTS- CLASSROOM ADDITION

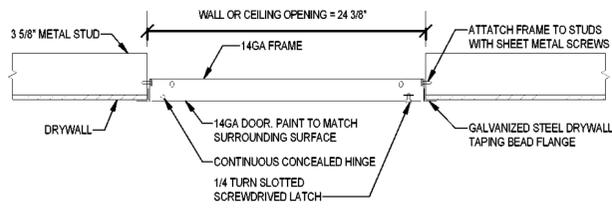
REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE	DRAWN BY
20 FEBRUARY 2026	JDR
PROJECT NO	CHECKED BY
68202	MTS

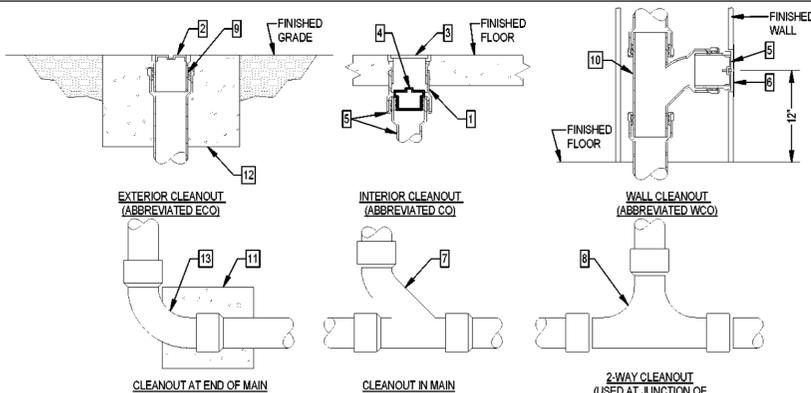
SHEET TITLE
SCHEDULES

SHEET NO	REV NO
P403	



NOTES:

1. ACCESS DOOR SHALL BE NOMINAL 24"x24" UNLESS NOTED OTHERWISE.
2. LOCATE DOOR IN CEILING OR WALL TO ALLOW UNOBSTRUCTED ACCESS TO EQUIPMENT, DAMPERS, ETC. AND NOT IN CONFLICT WITH LIGHTS, DIFFUSERS, SPRINKLERS, ETC.
3. ACCESS PANELS LOCATED IN SECURE CEILINGS SHALL BE SECURITY TYPE.

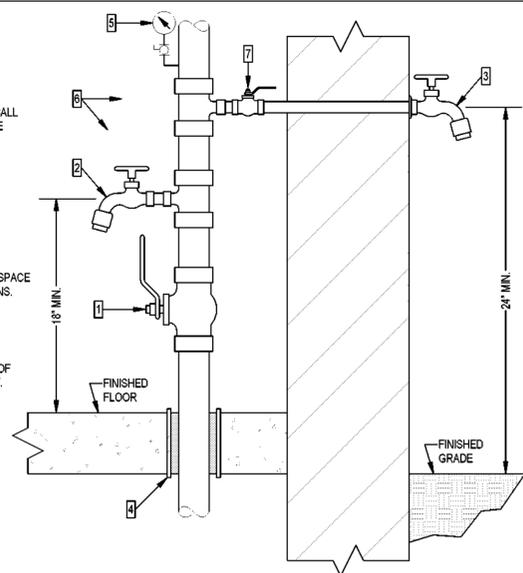


KEY NOTES: (THIS DETAIL ONLY)

- | | |
|---|---|
| 1 ABS ADJUSTABLE FLOOR ACCESS HOUSING | 7 COMBINATION WYE AND EIGHTH BEND FITTING. |
| 2 THREADED, RECESSED PVC CLEANOUT PLUG | 8 TWO-WAY CLEANOUT TEE |
| 3 NICKEL BRONZE SCORRIATED TOP (PROVIDE CARPET MARKER FOR CARPETED FLOORS). | 9 PVC CLEANOUT ADAPTOR |
| 4 THREAD PVC, RAISED HEAD CLEANOUT PLUG | 10 PVC CLEANOUT TEE |
| 5 PVC THREADED, RECESSED HEAD CLEANOUT PLUG TAPPED FOR CENTER SCREW. | 11 12" x 12" x 12" CONCRETE THRUST BLOCK. |
| 6 STAINLESS STEEL ROUND WALL ACCESS COVER. | 12 24" x 24" x 24" CONCRETE PAD FLUSH WITH GRADE. |
| | 13 LONG SWEEP ELBOW. |

KEY NOTES: (THIS DETAIL ONLY)

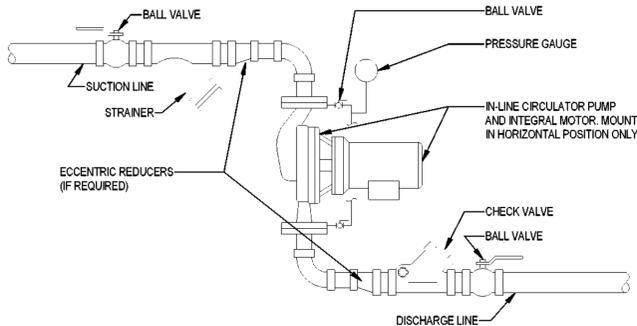
- 1 MAIN DOMESTIC COLD WATER SHUTOFF VALVE (BALL VALVE AS SHOWN FOR 2" OR SMALLER PIPES. USE BUTTERFLY VALVE FOR 2 1/2" OR LARGER PIPES).
- 2 3/4" HOSE BIBB WITH VACUUM BREAKER (INTERIOR APPLICATIONS).
- 3 3/4" FREEZE RESISTANT WALL HYDRANT WITH VACUUM BREAKER (EXTERIOR APPLICATIONS).
- 4 SLEEVE THRU FLOOR AND SEALANT IN ANNULAR SPACE BETWEEN PIPE AND SLEEVE - SEE SPECIFICATIONS.
- 5 PRESSURE GAUGE
- 6 THIS DETAIL SHOWS A GENERAL ARRANGEMENT OF PIPING. SEE PLANS FOR SPECIFIC ARRANGEMENT.
- 7 PROVIDE SHUTOFF VALVE.



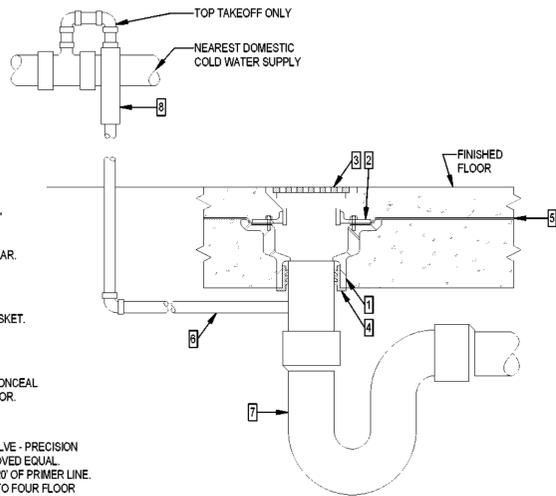
G EQUIPMENT ACCESS PANEL

D CLEANOUTS

A WATER SERVICE ENTRANCE

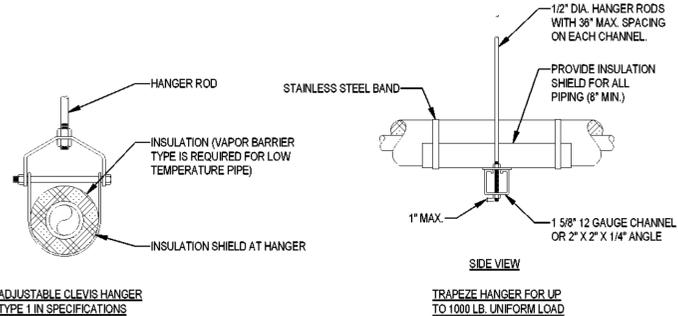


NOTE: WHERE MULTIPLE PUMPS ARE INSTALLED IN SERIES, MOUNT PUMP INLET OF EACH SUBSEQUENT PUMP TO OUTLET OF PRECEDING PUMP. PROVIDE COMMON ISOLATION VALVES, STRAINER AND CHECK VALVE FOR ALL PUMPS IN SERIES.



KEY NOTES: (THIS DETAIL ONLY)

- 1 CAST IRON FLOOR DRAIN BODY WITH 1/2" TRAP PRIMER TAP AND 3" OUTLET
- 2 CAST IRON REVERSIBLE CLAMPING COLLAR.
- 3 POLISHED NICKEL BRONZE 2-PIECE ADJUSTABLE STRAINER.
- 4 PUSH-ON NEOPRENE COMPRESSION GASKET.
- 5 WATERPROOF MEMBRANE CLAMPED TIGHTLY TO DRAIN BODY.
- 6 1/2" DOMESTIC COLD WATER SUPPLY. CONCEAL IN WALL, ABOVE CEILING OR BELOW FLOOR.
- 7 3" DEEP SEAL P-TRAP
- 8 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 TO FOUR FLOOR DRAINS MAY BE SERVED FROM ONE TRAP PRIMER VALVE. INSTALL IN ACCESSIBLE LOCATION OR PROVIDE ACCESS PANEL FOR SERVICE.



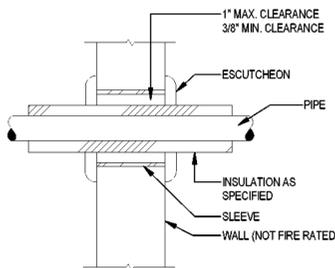
NOTES:

1. SEE SPECIFICATIONS FOR SPACING OF HANGERS.

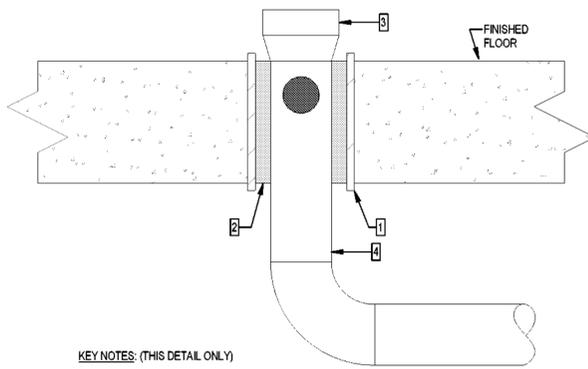
H IN-LINE CIRCULATOR PUMP

E FLOOR DRAIN WITH DEEP SEAL TRAP & PRIMER

B TYPICAL PIPE HANGERS



NOTE: AT EXTERIOR WALL PENETRATIONS SEAL ANNULAR SPACE BETWEEN INSULATION OR PIPE SURFACE AND SLEEVE WITH EXTERIOR GRADE CLEAR SILICONE CAULK.

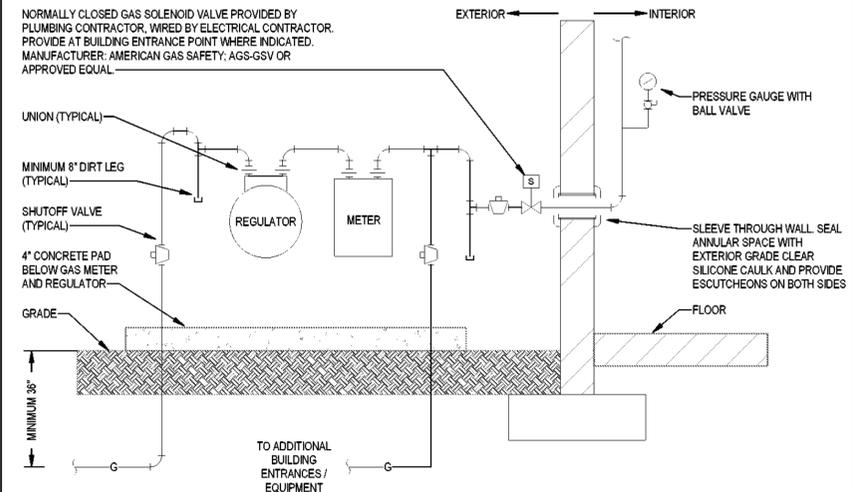


KEY NOTES: (THIS DETAIL ONLY)

- 1 STEEL SLEEVE GROUTED IN PLACE IN FLOOR. SIZE TO PROVIDE 3/8" MINIMUM TO 1" MAXIMUM CLEARANCE BETWEEN PIPE AND SLEEVE.
- 2 FILL ANNULAR SPACE WITH FIRE STOPPING MATERIAL.
- 3 HUB END OF PIPE (SIZE INDICATED ON DRAWINGS).
- 4 PIPE THRU FLOOR SLAB.

NOTES:

1. THIS DETAIL IS SHOWN AS AN EXAMPLE OF THE WORK SCOPE REQUIRED. FIRE STOPPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE U.L. LISTED FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE RATED ASSEMBLIES.



NOTES:

1. ADEQUATELY SUPPORT METER AND REGULATOR FROM GRADE.
2. WHERE SUBJECT TO DAMAGE, PROVIDE BOLLARDS OR OTHER ACCEPTABLE MEANS OF PROTECTION.

J PIPE PENETRATION OF NON-FIRE RELATED WALL

F HUB DRAIN WITH INTEGRAL BACKWATER VALVE

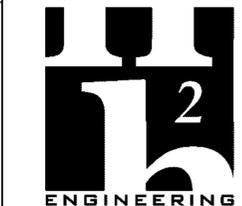
C GAS SERVICE ENTRANCE



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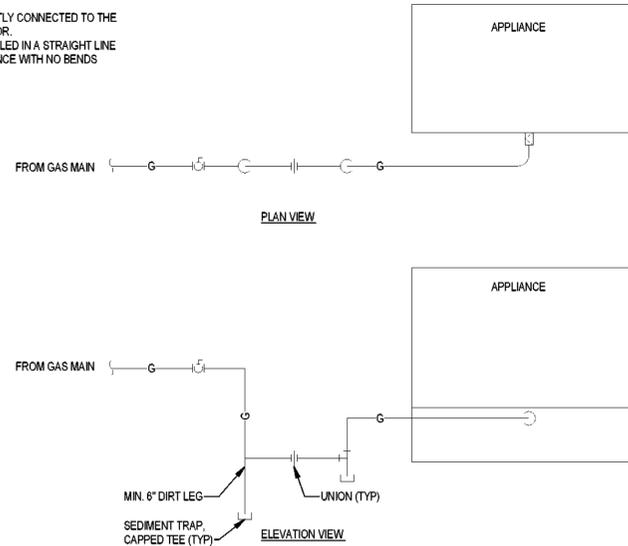
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DETAILS

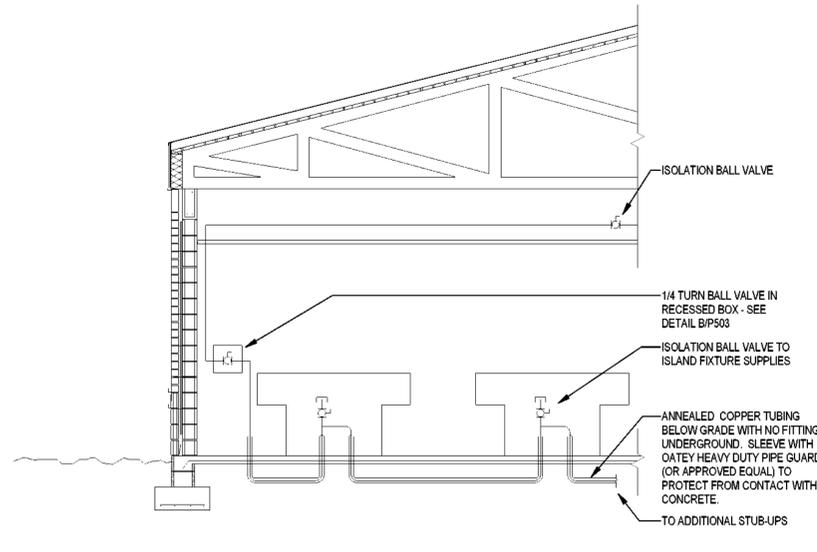
SHEET NO
P501

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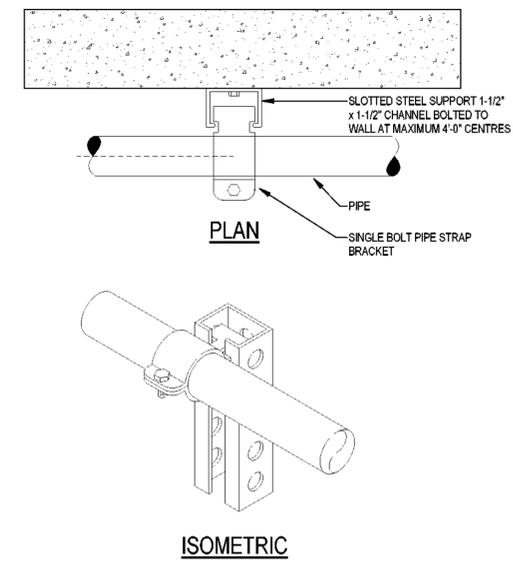
- NOTES:
 1. THE FLEX HOSE SHALL BE DIRECTLY CONNECTED TO THE APPLIANCE SET INLET CONNECTOR.
 2. THE FLEX HOSE SHALL BE INSTALLED IN A STRAIGHT LINE PERPENDICULAR TO THE APPLIANCE WITH NO BENDS OR KINKS.



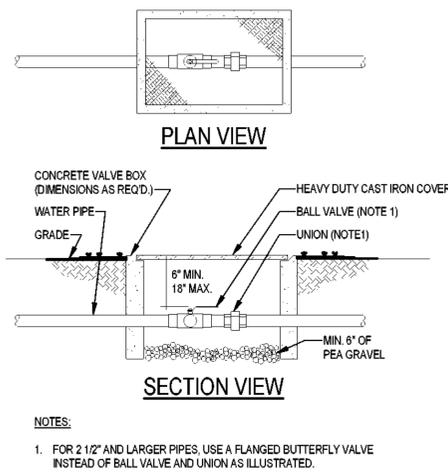
G LOW PRESSURE (0.5 PSI) GAS APPLIANCE CONNECTION



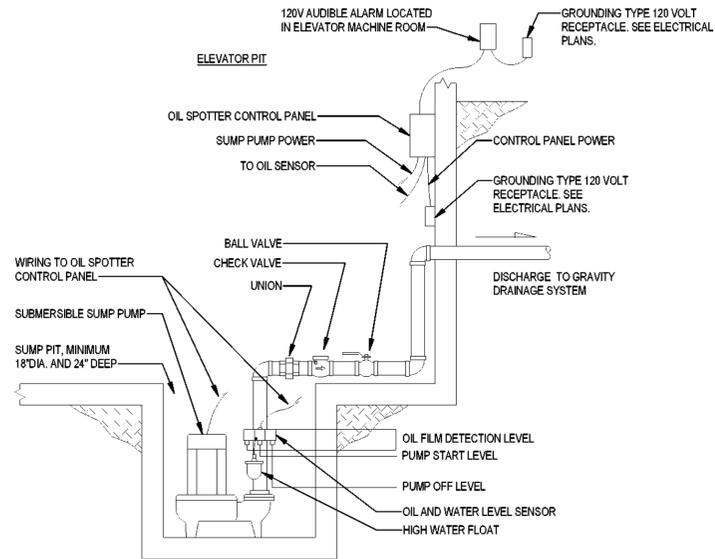
D UNDERGROUND WATER SUPPLY TO ISLAND FIXTURES



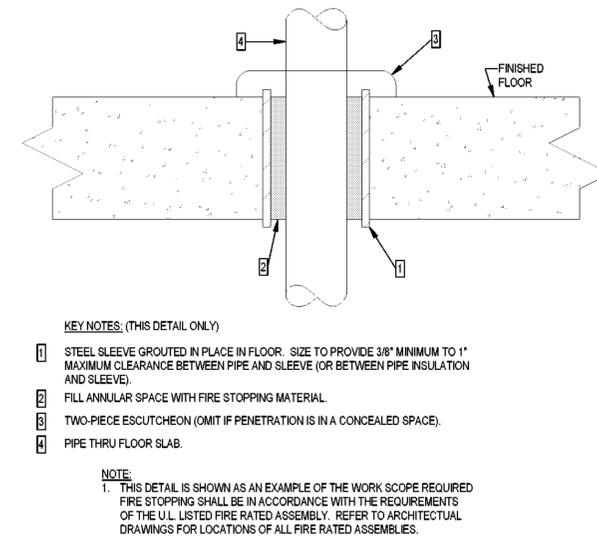
A GAS LINE WALL MOUNT SUPPORT



H VALVE BOX



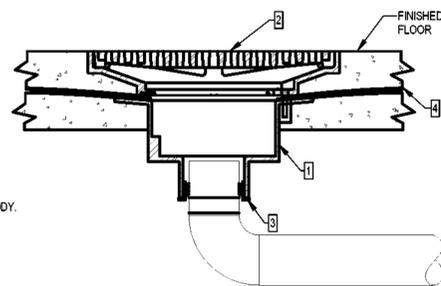
E ELEVATOR SUMP PUMP WITH OIL SPOTTER



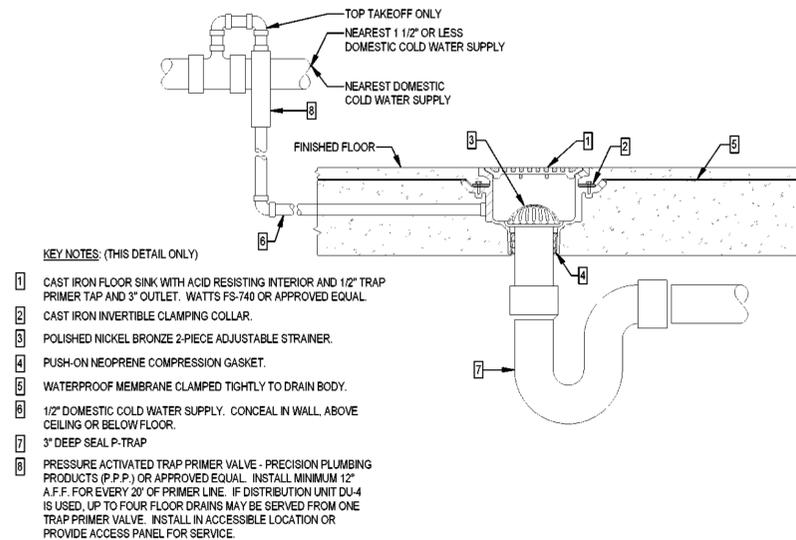
B ABOVE-GRADE SLAB PIPE PENETRATION

- NOTES:
 1. FOR 2 1/2\"/>

- KEY NOTES: (THIS DETAIL ONLY)
 1 CAST IRON AREA DRAIN BODY. SEE FLOOR PLAN FOR OUTLET SIZE.
 2 WATTS AREA DRAIN WITH NICKEL BRONZE TOP, SEDIMENT BUCKET AND HINGED, HEEL PROOF GRATE. MODEL: FD-450-F.
 3 PUSH-ON NEOPRENE COMPRESSION GASKET.
 4 WATERPROOF MEMBRANE CLAMPED TIGHTLY TO DRAIN BODY.



F AREA DRAIN



- KEY NOTES: (THIS DETAIL ONLY)
 1 CAST IRON FLOOR SINK WITH ACID RESISTING INTERIOR AND 1/2\"/>

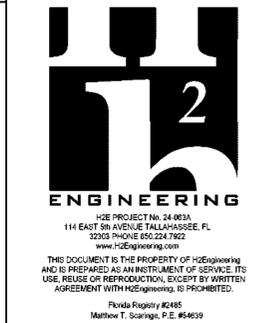
C FLOOR SINK



ARCHITECTURE
 PLANNING INTERIORS
 GRAPHICS

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NOTE:
 11' x 17' SHEETS ARE PLOTTED AT 1/2
 THE SCALE NOTED ON THESE DRAWINGS



SWHS CAMPUS IMPROVEMENTS-
 CLASSROOM ADDITION

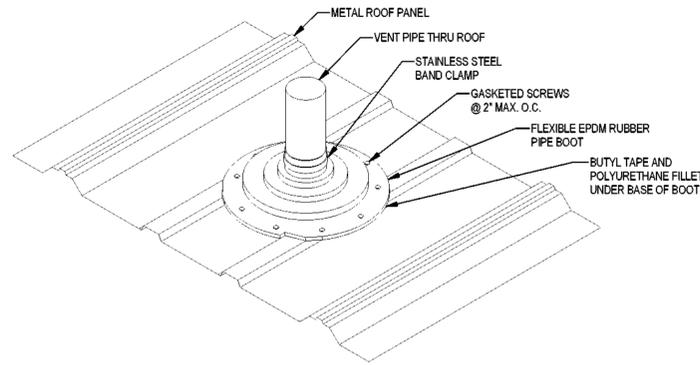
REV	DATE	DESCRIPTION

PROJECT PHASE
 CONSTRUCTION DOCUMENTS

DATE 20 FEBRUARY 2026	DRAWN BY JDR
PROJECT NO 68202	CHECKED BY MTS

SHEET TITLE
DETAILS

SHEET NO P502	REV NO
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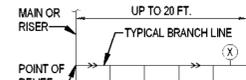
E VENT THROUGH ROOF

GROUPED FIXTURES

TABLE 1 - FOR GROUPED FIXTURES

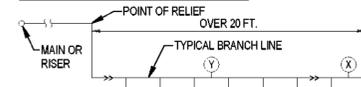
P.D.I. UNITS	AA	A	B	C	D	E	F
FIXTURE UNITS	1-3	1-11	12-32	33-60	61-113	114-154	155-330

RULE 1 - MULTIPLE FIXTURES NOT EXCEEDING 20 FT.



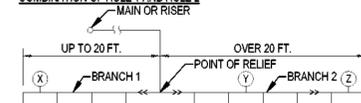
SELECTION METHOD:
USING TABLE 1, SIZE UNIT "X" FOR THE TOTAL FIXTURE UNITS OF BRANCH LINE.

RULE 2 - MULTIPLE FIXTURES EXCEEDING 20 FT.



SELECTION METHOD:
SIZE UNIT "X" AND UNIT "Y" SO THE SUM OF THE RATINGS IS EQUAL TO OR GREATER THAN TOTAL FIXTURE UNITS OF BRANCH LINE.

COMBINATION OF RULE 1 AND RULE 2



SELECTION METHOD:
USING TABLE 1, SIZE UNIT "X" FOR BRANCH 1 BASE ON RULE 1. SIZE UNITS "Y" AND "Z" BASED ON RULE 2.

LONG RUNS

TABLE 2 - WATER PRESSURES UP TO 65 P.S.I.G.

LENGTH OF PIPE (FT.)	P.D.I. WATER HAMMER ARRESTERS				
	1/2"	3/4"	1"	1-1/4"	1-1/2"
25	A	A	B	C	D
50	A	B	C	D	E
75	B	C	D	AB	F
100	C	D	E	F	CF
125	C	D	F	AF	EFF
150	D	E	F	DF	FFF

TABLE 2A - WATER PRESSURES 65 P.S.I.G. TO 85 P.S.I.G.

LENGTH OF PIPE (FT.)	P.D.I. WATER HAMMER ARRESTERS				
	1/2"	3/4"	1"	1-1/4"	1-1/2"
25	B	B	B	D	E
50	B	C	C	E	F
75	C	D	D	F	CF
100	D	E	E	CF	EFF
125	D	E	F	DF	FFF
150	E	F	F	DF	FFF



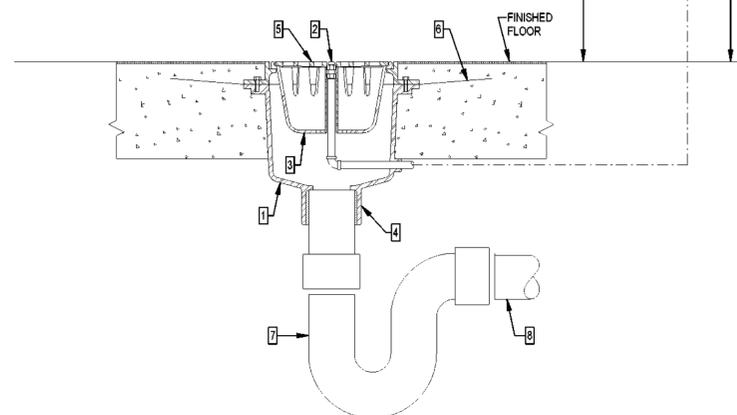
SELECTION METHOD:
USING EITHER TABLE 2 OR 2A (BASED ON SYSTEM PRESSURE), SIZE UNIT "X" BASED ON SIZE OF PIPE AND LENGTH OF RUN.

GENERAL NOTE:
PROVIDE WATER HAMMER ARRESTERS IN ACCORDANCE WITH STANDARD PDI-WH201

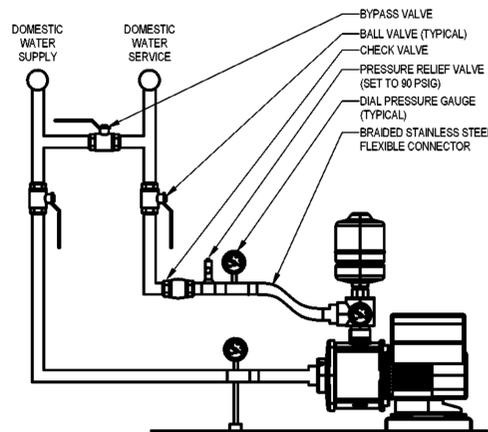
F WATER HAMMER ARRESTORS

- KEY NOTES: (THIS DETAIL ONLY)**
- GARBAGE CAN WASH DRAIN;
 - SPRAY NOZZLE ASSEMBLY;
 - REMOVABLE DEEP SEDIMENT BUCKET;
 - 4" BOTTOM OUTLET, INSIDE CAULK;
 - SQUARE CAST IRON TOP;
 - LEAD PAN FLASHING CLAMPED TIGHTLY TO DRAIN BODY. SEE ARCHITECTURAL PLANS;
 - DEEP SEAL P-TRAP (3", UNLESS NOTED OTHERWISE);
 - CAST IRON HUB AND SPIGOT WASTE PIPE AND FITTINGS WITH PUSH-ON NEOPRENE RUBBER COMPRESSION GASKETS (FOR BELOW GRADE OR BELOW SLAB APPLICATIONS);

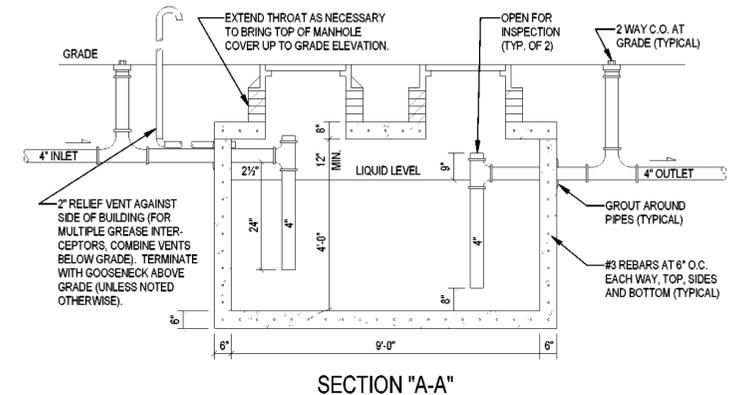
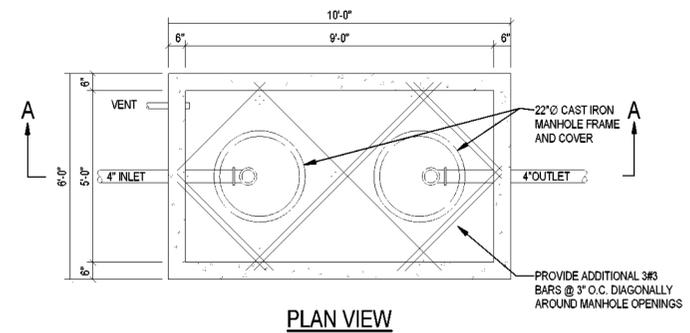
- HOT WATER CONTROL VALVE, CONCEALED STRAIGHT THROUGH PATTERN, SOLID BRASS BODY, POLISHED CHROME PLATED BRASS CROSS HANDLE, INDEXED "HOT";
- WALL MOUNTED ATMOSPHERIC VACUUM BREAKER, POLISHED CHROME PLATED WITH ESCUTCHEONS, 1/2" IPS INLET & OUTLET FOR CONCEALED PIPING;
- 3/4" CHROME PLATED BRASS HOSE BIBB WITH VACUUM BREAKER FOR COLD WATER WASH-DOWN. PROVIDE 6'-0" RUBBER HOSE.



C GARBAGE CAN WASH

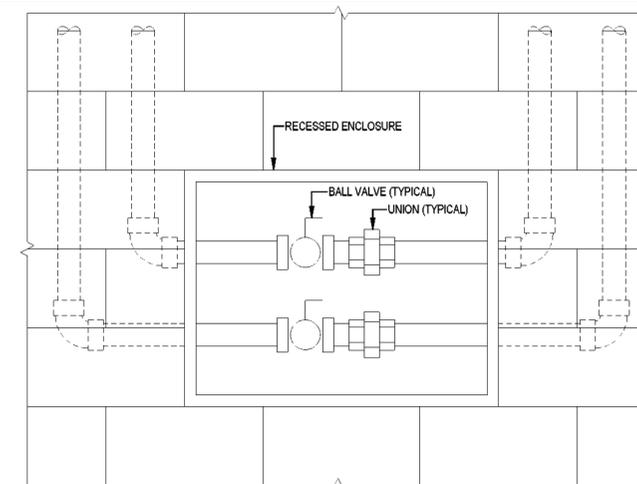


D DOMESTIC BOOSTER PUMP



- NOTES:**
- GREASE INTERCEPTOR(S) ARE SIZED PER FAC 62.6.013(7)
 - TOTAL MEALS PREPARED PER DAY (M) = 250
 - GALLONS PER MEAL (GM) = 5.0
 - DISHWASHER LOADING FACTOR (LF) = 1.0
 - GALLONS = M x GM x LF = 250 x 5 x 1 = 1250
 - USE ONE (1) 1250 GALLON GREASE INTERCEPTOR

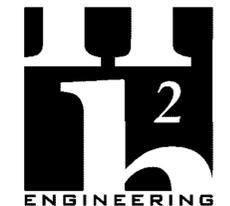
A GREASE INTERCEPTOR



- NOTES:**
- PROVIDE HINGED ACCESS COVER WITH NON-LOCKABLE 1/4 TURN LATCH.
 - SEE PLANS FOR QUANTITY AND TYPE OF SERVICES.

B CLASSROOM SERVICE SHUT-OFF VALVE BOX

NOTE:
11" x 17" SHEETS ARE PLOTTED AT 1/2
THE SCALE NOTED ON THESE DRAWINGS



H2
ENGINEERING
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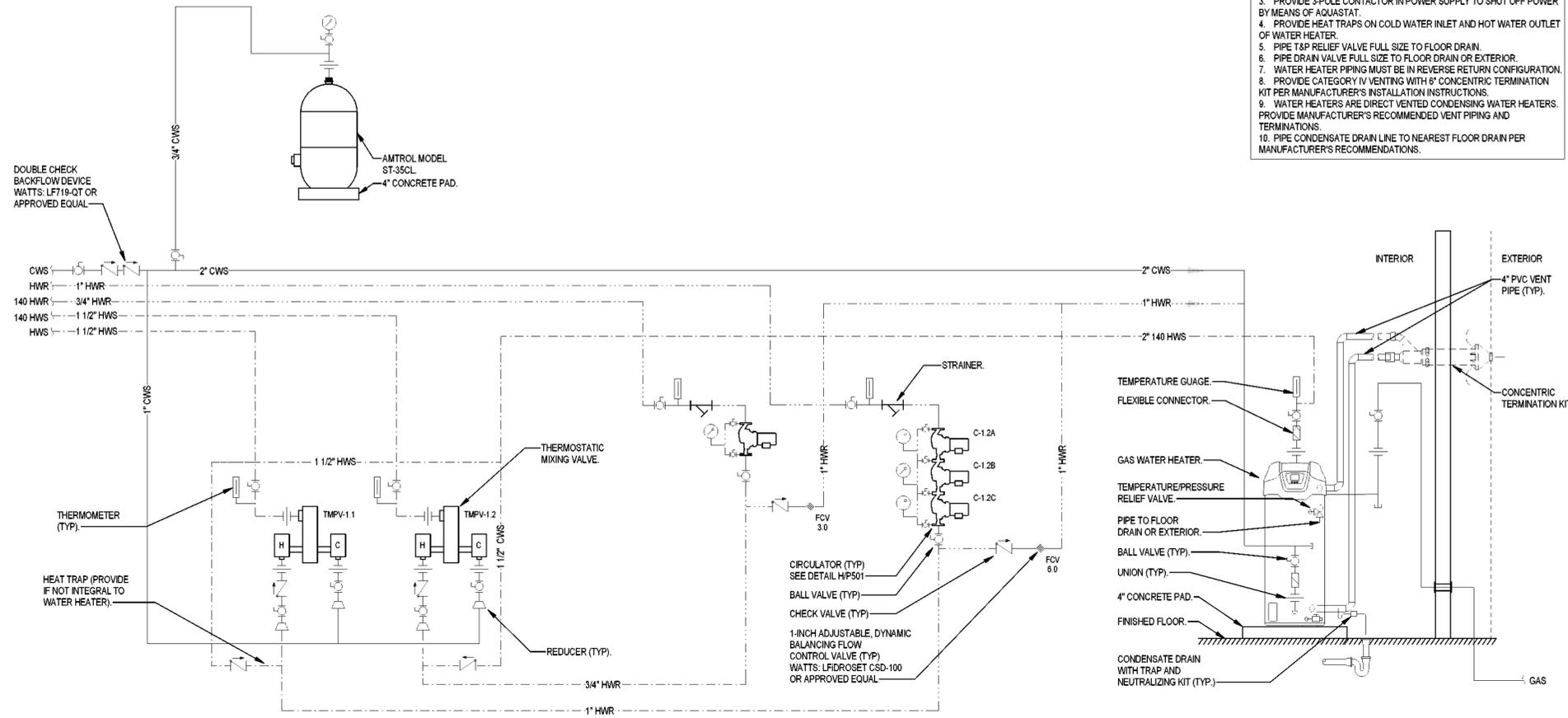
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SHEET TITLE
DETAILS

SHEET NO P503	REV NO
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- NOTES:
1. SEE FLOOR PLANS FOR PIPE SIZES.
 2. COLD AND HOT WATER PIPE SIZES TO TMV SHALL BE SAME SIZE AS COLD WATER PIPE SIZE TO WATER HEATER.
 3. PROVIDE 3-POLE CONTACTOR IN POWER SUPPLY TO SHUT OFF POWER BY MEANS OF AQUASTAT.
 4. PROVIDE HEAT TRAPS ON COLD WATER INLET AND HOT WATER OUTLET OF WATER HEATER.
 5. PIPE T&P RELIEF VALVE FULL SIZE TO FLOOR DRAIN.
 6. PIPE DRAIN VALVE FULL SIZE TO FLOOR DRAIN OR EXTERIOR.
 7. WATER HEATER PIPING MUST BE IN REVERSE RETURN CONFIGURATION.
 8. PROVIDE CATEGORY IV VENTING WITH 6\"/>

DOUBLE CHECK BACKFLOW DEVICE WATTS: LF719-QT OR APPROVED EQUAL

CWS 1
HWR 1 1\"/>

THERMOMETER (TYP.)

HEAT TRAP (PROVIDE IF NOT INTEGRAL TO WATER HEATER)

A GAS WATER HEATER



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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NOTE:
11\"/>



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Matthew T. Sorrigio, P.E. #54859

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