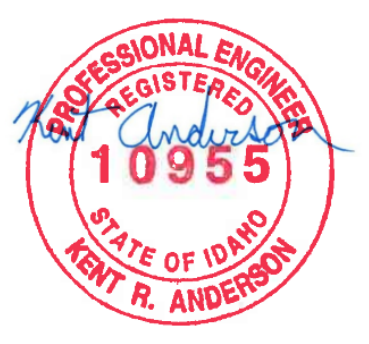


LEGEND:
(RE: PLUMBING COVER SHEET FOR ADDITIONAL INFORMATION)

---	SANITARY SEWER	○	FLOOR CLEANOUT
—CSS—	CAST IRON SANITARY SEWER	○	FLOOR DRAIN, ROUND
—GW—	GREASE WASTE	○	FLOOR SINK
—RWL—	RAIN WATER LEADER	○	TRENCH DRAIN
—OFL—	OVERFLOW LEADER	XX	FIXTURE OR EQUIPMENT CALLOUT (RE: FIXTURE AND EQUIPMENT SCHEDULES)
----	SANITARY VENT		
—CD—	CONDENSATE DRAIN		
—W—	INDIRECT WASTE		

- GENERAL NOTES:**
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND STANDARDS, INCLUDING IBC, ISPC, NFPA.
 - PRIOR TO INSTALLING ANY PIPING, VERIFY EXISTING CONDITIONS AND INVERTS. NOTIFY ARCHITECT OF ANY CONDITIONS THAT WILL NOT ALLOW FOR INVERTS NOTED.
 - RECORD DRAWINGS USED FOR DESIGN MAY NOT REFLECT CURRENT LAYOUT OF STORE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPING AND FIXTURE LOCATIONS PRIOR TO START OF WORK.
 - DEMOLISHED FIXTURES/EQUIPMENTS SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY.
 - WASTE, VENT AND WATER PIPING FROM DEMOLISHED FIXTURES/EQUIPMENT SHALL BE CAPPED AT MAIN ABOVE CEILING, BELOW FLOOR AND AT WALLS AS REQUIRED. ALL ABANDONED PIPING SHALL BE REMOVED FROM BUILDING AND DISPOSED OF PROPERLY. PATCH FLOOR AND WALLS AS REQUIRED.
 - DEMOLITION: REMOVE ALL WATER, WASTE, VENT AND GAS PIPING WHERE INDICATED, AND ELSEWHERE AS NECESSARY, AND DISPOSE OF OFF SITE.
 - LOCATIONS OF POINTS OF CONNECTION TO TENANT WATER, WASTE AND GAS ARE APPROXIMATE. VERIFY ACTUAL LOCATIONS OF ALL POINTS OF CONNECTION IN FIELD.
 - PLUMBER SHALL COORDINATE REMOVAL OF FIXTURES/EQUIPMENT/PIPING WITH ALL OTHER DISCIPLINES.
 - PRIOR TO BIDDING, OBTAIN A COPY OF THE SPECIFICATIONS AND PLANS, VISIT THE JOB SITE, TAKE NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. NO ALLOWANCES WILL BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.

- SHEET NOTES:**
- 50 20-01 DEMOLISH EXISTING WASTE PIPING AS SHOWN SHADED AND REMOVE OFF SITE. CAP AND ABANDON PIPING BELOW FLOOR, ABOVE CEILING, AND CLOSE TO MAIN. VERIFY EXACT DEMO REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - 50 20-02 DEMOLISH EXISTING VENT PIPING AS SHOWN SHADED AND REMOVE OFF SITE. CAP AND ABANDON PIPING BELOW FLOOR AND DEMOLISH ALL PIPING ABOVE CEILING. CAP ALL PIPING CLOSE TO MAIN. VERIFY EXACT DEMO REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - 50 20-03 DEMOLISH ALL EXISTING WASTE PIPING, VENT PIPING, FLOOR DRAINS, FLOOR CLEANOUTS, AND PLUMBING FIXTURES IN THE SHADED AREA, AND REMOVE OFF SITE. CAP AND ABANDON ALL WASTE PIPING BELOW FLOOR CLOSE TO MAIN. VERIFY EXACT DEMO REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - 50 20-05 DEMOLISH ALL EXISTING RWL AND OFL ROOF DRAINS AND PIPING IN THE SHADED AREA AND REMOVE OFF SITE. VERIFY EXACT DEMO REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - 50 20-07 DEMOLISH EXISTING PLUMBING FIXTURE WITH ALL ASSOCIATED WASTE, VENT, AND WATER PIPING AND REMOVE OFF SITE. CAP AND ABANDON PIPING BELOW FLOOR OR ABOVE CEILING AND CLOSE TO MAIN. VERIFY EXACT DEMO REQUIREMENTS IN FIELD PRIOR TO START OF WORK.



PROFESSIONAL ENGINEER
KENT R. ANDERSON
No. 10958
STATE OF IDAHO

HERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION
 427 Shoshone St N Twin Falls, ID
CSHOA

AGENCY REVIEW SET

PROJECT 21403.000	DATE 03-31-23
DRAWN KRA	CHECKED KRA
REVISED	

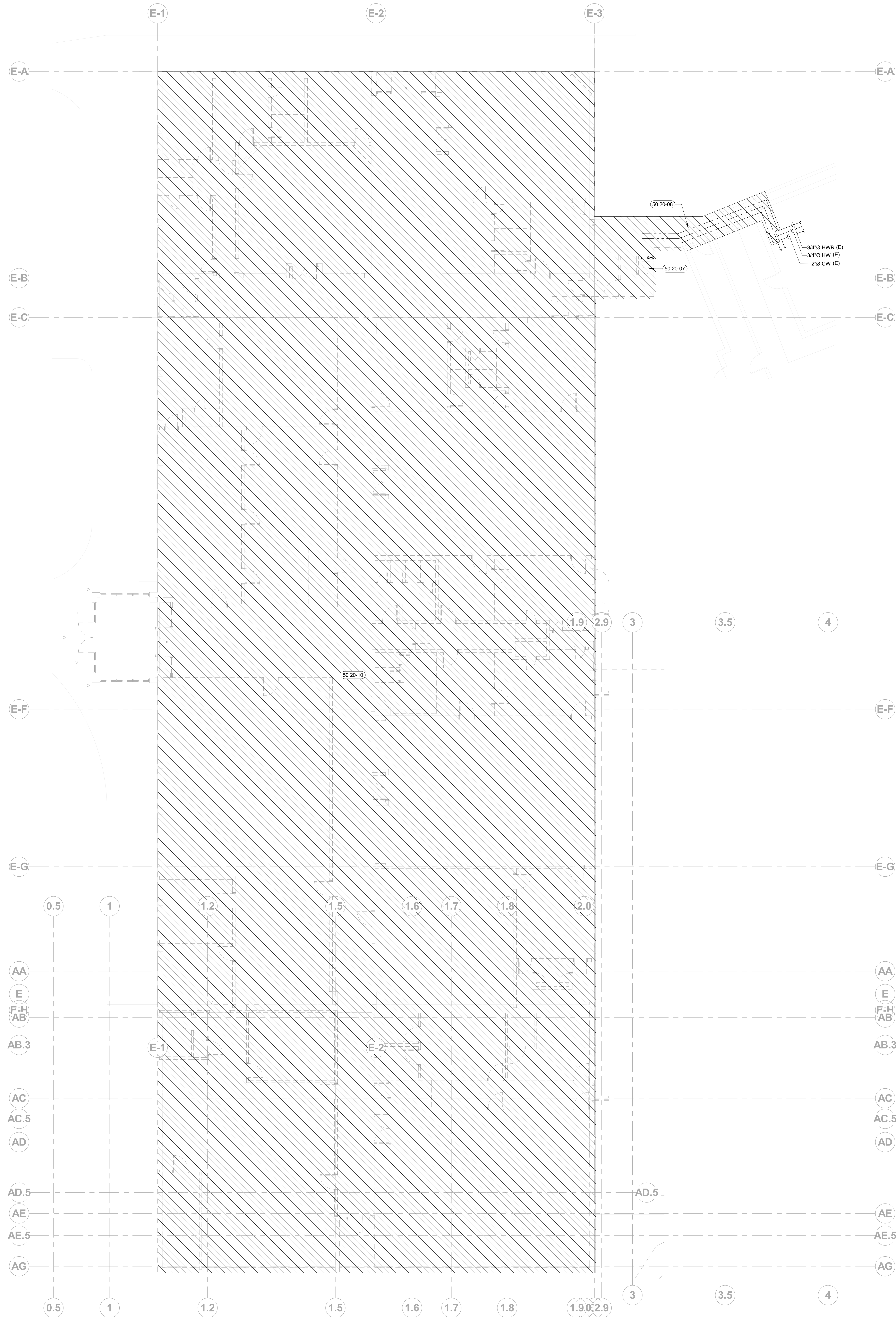
SHEET TITLE
DEMO WASTE & VENT PLAN LEVEL 1

SHEET
DP11

ORIGINAL SHEET SIZE
 36" x 48"

DP11 - DEMO WV PLAN - LEVEL 1
1/8" = 1'-0"

3/17/2023 9:17:50 AM

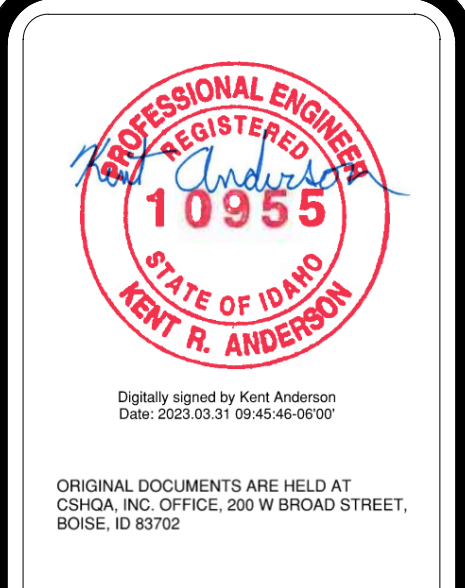


LEGEND:
(RE: PLUMBING COVER SHEET FOR ADDITIONAL INFORMATION)

--- COLD WATER	--- BALL VALVE
--- SOFT COLD WATER	--- PRESSURE REDUCING VALVE
--- REVERSE OSMOSIS WATER	--- SHUT-OFF VALVE
--- DOMESTIC HOT WATER	--- FIXTURE OR EQUIPMENT CALLOUT (RE: FIXTURE AND EQUIPMENT SCHEDULES)
--- DOMESTIC HOT WATER RETURN	--- PIPE ELBOW DOWN
--- HOT WATER WITH TEMP. MAINTENANCE CABLE	--- PIPE TEE BRANCH UP (W/ ELBOW)
--- M-P-G MEDIUM PRESSURE GAS	--- PIPE TEE BRANCH DOWN (W/ ELBOW)
--- N-G NATURAL GAS	--- FLOW DIRECTION INDICATOR
--- PIPE ELBOW UP	

- GENERAL NOTES:**
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND STANDARDS, INCLUDING IBC, ISPC, NFPA.
 - PRIOR TO INSTALLING ANY PIPING, VERIFY EXISTING CONDITIONS AND INVERTS. NOTIFY ARCHITECT OF ANY CONDITIONS THAT WILL NOT ALLOW FOR INVERTS NOTED.
 - RECORD DRAWINGS USED FOR DESIGN MAY NOT REFLECT CURRENT LAYOUT OF STORE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPING AND FIXTURE LOCATIONS PRIOR TO START OF WORK.
 - DEMOLISHED FIXTURES/EQUIPMENTS SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY.
 - WASTE, VENT AND WATER PIPING FROM DEMOLISHED FIXTURES/EQUIPMENT SHALL BE CAPPED AT MAIN ABOVE CEILING, BELOW FLOOR AND AT WALLS AS REQUIRED. ALL ABANDONED PIPING SHALL BE REMOVED FROM BUILDING AND DISPOSED OF PROPERLY. PATCH FLOOR AND WALLS AS REQUIRED.
 - DEMOLITION: REMOVE ALL WATER, WASTE, VENT AND GAS PIPING WHERE INDICATED, AND ELSEWHERE AS NECESSARY, AND DISPOSE OF OFF SITE.
 - LOCATIONS OF POINTS OF CONNECTION TO TENANT WATER, WASTE AND GAS ARE APPROXIMATE. VERIFY ACTUAL LOCATIONS OF ALL POINTS OF CONNECTION IN FIELD.
 - PLUMBER SHALL COORDINATE REMOVAL OF FIXTURES/EQUIPMENT/PIPING WITH ALL OTHER DISCIPLINES.
 - PRIOR TO BIDDING, OBTAIN A COPY OF THE SPECIFICATIONS AND PLANS, VISIT THE JOB SITE, TAKE NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. NO ALLOWANCES WILL BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.

- SHEET NOTES:**
- 50 20-07 DEMOLISH EXISTING PLUMBING FIXTURE WITH ALL ASSOCIATED WASTE, VENT, AND WATER PIPING AND REMOVE OFF SITE. CAP AND ABANDON PIPING BELOW FLOOR OR ABOVE CEILING AND CLOSE TO MAIN. VERIFY EXACT DEMO REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - 50 20-08 DEMOLISH ALL EXISTING CW, HW, PIPING AS SHOWN SHADED WITH ALL ASSOCIATED SHUT-OFF VALVES AND REMOVE OFF SITE. CAP PIPING ABOVE CEILING CLOSE TO MAIN. VERIFY EXACT DEMO REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - 50 20-10 DEMOLISH ALL EXISTING WATER PIPING, GAS PIPING, AND PLUMBING FIXTURES IN THE SHADED AREA AND REMOVE OFF SITE. CAP PIPING ABOVE CEILING CLOSE TO MAIN. VERIFY EXACT DEMO REQUIREMENTS IN FIELD PRIOR TO START OF WORK.



KENT R. ANDERSON, P.E.
200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-343-4656 FAX: 208-343-1658
WWW.CSHQA.COM
I am a duly licensed Professional Engineer in the State of Idaho. I am not responsible for any errors or omissions in this drawing or any other documents prepared by me or my firm. I am not responsible for any conditions that may exist on the job site that are not shown on this drawing. I am not responsible for any conditions that may exist on the job site that are not shown on this drawing. I am not responsible for any conditions that may exist on the job site that are not shown on this drawing.

THERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION
427 Shoshone St N Twin Falls, ID
200 BROAD STREET
BOISE, ID 83702
PHONE: 208-343-4656 FAX: 208-343-1658
WWW.CSHQA.COM

AGENCY REVIEW SET

PROJECT 21403.000	DATE 03-31-23
DRAWN KRA	CHECKED KRA

REVISED

SHEET TITLE
DEMO WATER & GAS PLAN LEVEL 1

SHEET
DP12
ORIGINAL SHEET SIZE
36" x 48"

DP12 - DEMO W/G PLAN - LEVEL 1
1/8" = 1'-0"

PLUMBING ABBREVIATIONS

(D)	DEMOLISH	IN WC	INCHES OF WATER COLUMN
(E)	EXISTING	INCN	INCINERATOR
(N)	NEW	INSUL	INSULATION, INSULATE
AF#	ABOVE FINISHED FLOOR	INTR	INTERIOR
AG	AIR GAP	INVT	INVERT
AL	ALUMINUM	IPC	INTERNATIONAL PLUMBING CODE
ALT	ALTERNATIVE, ALTERNATE	ISPC	INDIAN STATE PLUMBING CODE
AP	ACCESS PANEL	KLWATT	KILOWATT
APPROX	APPROXIMATE	LAV	LAVATORY
AR	ARCHITECT, ARCHITECTURAL	LG	LENGTH LONG
ARV	AIR RELIEF VALVE	LPC	LOW PRESSURE CONDENSATE
ATMOS	ATMOSPHERE	MA	MILLIAMS
AUTO	AUTOMATIC	MAX	MAXIMUM
BFP	BACKFLOW PREVENTER	MCH	MECHANICAL
BHP	BRAKE HORSEPOWER	MFD	MECHANICAL FLOOR DRAIN
BLDG	BUILDING	MFR	MANUFACTURER
BOT	BOTTOM	MH	MANHOLE
COMM	COMMON	MHT	MALE HOSE THREAD
C	COORDINATE WITH	MIN	MINIMUM
CAB	CABINET	MISC	MISCELLANEOUS
CD	CONDENSATE DRAIN	MTD	MOUNTED
CFM	CUBIC FEET PER MINUTE	MV	MIXING VALVE
CL	CENTERLINE	N	NEUTRAL
CLG	CLEANOUT	NC	NORMALLY CLOSED
CO	CONCRETE	NG	NATURAL GAS
CONC	CONCRETE	NIC	NOT IN CONTRACT
COND	CONDENSER, CONDENSATE	NO#	NORMALLY OPEN
COTG	CLEANOUT TO GRADE	NO#	NUMBER
CP	CONDENSATE PUMP	NOM	NOMINAL
CPD	CONDENSATE PUMP DISCHARGE	NTS	NOT TO SCALE
CW#	CONTROL VALVE	OC	ON CENTER
CW	COLD WATER (DOMESTIC)	OD	OUTSIDE DIAMETER
D	DEPTH, DEEP	ODL	OVERFLOW LEADER
DF	DRINKING FOUNTAIN	OPNG	OPENING
DI#	DIAMETER	OR	OIL RETURN
DS	DOWNSPOUT	OS	OIL SUPPLY
DWG	DRAWING	OSD	OPEN SITE DRAIN
EFF	EFFICIENCY	PE	PNEUMATIC TO ELECTRIC
ELEV	ELEVATION	PEFAB	PREFABRICATED
ELEC	ELECTRIC, ELECTRICAL	PRV	PRESSURE REDUCING VALVE
ELEV	ELEVATOR	PSF	POUNDS PER SQUARE FOOT
EMD	END OF MAIN DRIP	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PVC	POLYVINYL CHLORIDE
ET	EXPANSION TANK	RAD	RADIUS
EW	EYE WASH	RAC	REVERSE ACTING
EW	ELECTRIC WATER COOLER	RCP	REINFORCED CONCRETE PIPE
EWS	EYE WASH SHOWER	RD	ROOF DRAIN
EXP	EXPANSION	REF	REFERENCE
EXT	EXTERIOR	REQD	REQUIRED
EXTN	EXTENSION	RM	ROOM
F	FAHRENHEIT	RP	RECIRCULATION PUMP
FC	FAN COIL	RPM	REVOLUTIONS PER MINUTE
FCO	FLOOR CLEANOUT	RTU	ROOF TOP UNIT
FD	FLOOR DRAIN	RWL	RAINWATER LEADER
FN	FINISHED FLOOR	SA	SHOCK ABSORBER
FOR	FUEL OIL RETURN	SCHED	SCHEDULE
FOS	FUEL OIL SUPPLY	SCW	SOFT COLD WATER
FOV	FUEL OIL VENT	SH	SHOWER
FP	FIRE PROTECTION	SHT	SHEET
FFM	FEET PER MINUTE	SK	SINK
FS	FLOOR SINK	SMD	SMOKE DETECTOR
FT	FEET	SUMP	SUMP PUMP
FT HD	FEET OF HEAD	SPEC(S)	SPECIFICATIONS
GA	GALVE	SS	SANITARY SEWER
GAL	GALLON	STD	STANDARD
GALV	GALVANIZED	TD	TRENCH DRAIN
GCD	GRADE CLEANOUT	TEMP	TEMPERATURE
GI	GREASE INTERCEPTOR	TYP	TYPICAL
GPM	GALLONS PER MINUTE	URIAL	URINAL
GW	GREASE WASTE	UON	UNLESS OTHERWISE NOTED
H	HOT (LINE) 24 VOLTS	V	VENT
HB	HOSE BIBB	VA	VALVE
HW	HARDWARE	VAC	VACUUM
HQA	HAND-OFF-AUTO SWITCH	VB	VACUUM BREAKER
HP	HORSEPOWER	VEL	VELOCITY
HT	HEIGHT/HIGH	VFD	VARIABLE FREQUENCY DRIVE
HW	HOT WATER	VIF	VERIFY IN FIELD
HWR	HOT WATER RECIRCULATION	VFD	VACUUM PUMP DISCHARGE
IP	INTERFACE PANEL	VTR	VENT THROUGH ROOF
IBC	INTERNATIONAL BUILDING CODE	W	WIDTH
IECC	INTERNATIONAL ENERGY CONSERVATION CODE	W	WITHOUT
IFGC	INTERNATIONAL FUEL GAS CODE	WB	WATER BOX
IMC	INTERNATIONAL MECHANICAL CODE	WC	WATER CLOSET
		WCO	WALL CLEANOUT
		WF	WATER FILTER
		WG	WATER GAUGE
		WH	WATER HEATER
		WHE	WATER HEATER EXHAUST
		WHS	WATER HEATER SUPPLY
		WPD	WATER PRESSURE
		WS	WATER SOFTENER

PLUMBING SYMBOLS

	AIR RELIEF VENT		GLOBE VALVE, ANGLE
	PIPE ELBOW UP		HOSE BIBB, EXPOSED
	PIPE ELBOW DOWN		HOSE BIBB, RECESSED W/ LOCKING COVER
	PIPE TEE BRANCH UP (W/ ELBOW)		MOTOR-OPERATED VALVE
	PIPE TEE BRANCH DOWN (W/ ELBOW)		PNEUMATIC-OPERATED VALVE
	INDICATES DIRECTION OF DOWNWARD PITCH		SOLENOID-OPERATED VALVE
	CONCENTRIC REDUCER		2-WAY CONTROL VALVE (PNEUMATIC)
	ECCENTRIC REDUCER		3-WAY CONTROL VALVE (PNEUMATIC)
	FLOW DIRECTION INDICATOR		GAS SHUTOFF COCK
	INDICATES EXPANSION LOOP		PRESSURE REDUCING VALVE
	PIPE ANCHOR		PRESSURE REGULATING VALVE
	PIPE ALIGNMENT GUIDE		BACK PRESSURE REGULATING VALVE
	PIPE EXPANSION JOINT		A.S.M.E. PRESSURE RELIEF VALVE
	FLEXIBLE CONNECTION, RUBBER		VALVE IN RISER SHUTOFF
	FLEXIBLE CONNECTION, BRAIDED		FLEX GAS LINE
	FLEX COUPLING		YARD BOX (WITH GATE VALVE)
	FLEXIBLE UNION		CONTROL STOP
	UNION		IN-LINE PUMP
	STRAINER		TEMPERATURE GAUGE
	STRAINER, BLOW-OFF		PRESSURE GAUGE
	PIPE CAP		FLOW SWITCH
	BALL VALVE		WATER FLOW METER STATION
	BUTTERFLY VALVE		VENT-THRU-ROOF
	CHECK VALVE (ARROW TOWARD DIRECTION OF FREE FLOW)		WALL CLEANOUT
	CHECK VALVE SPRING		FLOOR CLEANOUT
	DOUBLE CHECK BACK FLOW PREVENTER		CLEANOUT TO GRADE
	REDUCED PRESSURE BACK FLOW PREVENTER		TRENCH DRAIN
	CIRCUIT SETTER		FLOOR DRAIN, ROUND
	GATE SHUTOFF VALVE		FLOOR DRAIN, SQUARE
	GATE SHUTOFF VALVE ANGLE		FLOOR SINK
	GLOBE VALVE		ROOF DRAIN OR OVERFLOW DRAIN
			FIRE HOSE CABINET, SURFACE-MOUNTED

PLUMBING LINETYPE LEGEND

	SANITARY SEWER		INDIRECT WASTE
	CAST IRON SANITARY SEWER		COLD WATER
	GREASE WASTE		SOFT COLD WATER
	CAST IRON GREASE WASTE		REVERSE OSMOSIS WATER
	COMBINATION WASTE AND VENT		DOMESTIC HOT WATER
	SANITARY VENT		DOMESTIC HOT WATER RETURN
	CONDENSATE DRAIN		MEDIUM PRESSURE GAS
	NATURAL GAS		

DRAWING INDEX

DEMO PLUMBING	
DP#1	DEMO WASTE & GAS PLAN LEVEL 1
DP#2	DEMO WATER & GAS PLAN LEVEL 1
PLUMBING	
P00	PLUMBING COVER SHEET
P01	PLUMBING CALCULATIONS
P20	WASTE & VENT PLAN BASEMENT
P21A	WASTE & VENT PLAN LEVEL 1 - AREA A
P21B	WASTE & VENT PLAN LEVEL 1 - AREA B
P22A	WASTE & VENT PLAN LEVEL 2 - AREA A
P22B	WASTE & VENT PLAN LEVEL 2 - AREA B
P30	WATER & GAS PLAN BASEMENT
P31A	WATER & GAS PLAN LEVEL 1 - AREA A
P31B	WATER & GAS PLAN LEVEL 1 - AREA B
P32A	WATER & GAS PLAN LEVEL 2 - AREA A
P32B	WATER & GAS PLAN LEVEL 2 - AREA B
P33A	PLUMBING ROOF PLAN - AREA A
P33B	PLUMBING ROOF PLAN - AREA B
P71	PLUMBING DETAILS
P81	SCHEDULES

PLUMBING GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE CODES, LOCAL CODES, LOCAL STANDARDS, IBC, ISPC, NFPA, AND THE LANDLORD'S AND TENANT'S REQUIREMENTS INCLUDING SUPPLEMENTS AND DETAILS.
- PROVIDE SEAL BETWEEN WALLS AND PLUMBING FIXTURES PER HEALTH DISTRICT REQUIREMENTS.
- COLD AND HOT WATER SUPPLY PIPING SIZES FOR FIXTURE CONNECTIONS ARE NOT SHOWN ON PLANS. SEE FIXTURE SCHEDULE FOR CONNECTION SIZES.
- INSTALL ALL OVERHEAD PIPING AS CLOSE TO STRUCTURE AS POSSIBLE, OR AS DETAILED OTHERWISE.
- LOCATE AND LABEL ALL VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE ACCESSIBLE THRU CEILING. SEE DRAWINGS FOR LOCATIONS.
- COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF THE OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER IMMEDIATELY NOTIFY ARCHITECT OF CONDITIONS IN CONFLICT WITH THE PLANS.
- PROVIDE PIPING EQUIPMENT AND MATERIALS IN ACCORDANCE WITH APPLICABLE PLUMBING CODE REGULATIONS AND STANDARDS, AUTHORITIES HAVING JURISDICTION, OR AS OTHERWISE RECOMMENDED OR DIRECTED BY MANUFACTURERS.
- COORDINATE INSTALLATION OF PIPING BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEM INSTALLATIONS.
- COORDINATE ALL FIXTURES, EQUIPMENT AND ROUGH-IN CONNECTION LOCATIONS AND SIZES WITH ARCHITECTURAL DRAWINGS, OWNER AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
- COORDINATE ALL FURRING REQUIREMENTS AND WALL THICKNESS WITH PIPE AND ACCESS PANEL INSTALLATIONS. COORDINATE ACCESS PANEL LOCATIONS WITH INTERIOR ELEVATIONS TO AVOID CONFLICTS WITH EQUIPMENT, GRAB BARS OR DECORATIVE ELEMENTS.
- PROVIDE SEISMIC RESTRAINTS FOR ALL PIPE AND EQUIPMENT AS RECOMMENDED IN SMACNA "SEISMIC RESTRAINT MANUAL, GUIDELINES FOR MECHANICAL EQUIPMENT," LATEST EDITION.
- ALL PIPING SHALL BE CONCEALED IN WALLS OR ABOVE CEILING UNLESS NOTED OTHERWISE. ALL WASTE LINES IN WHICH WATER OR WASTE LINES ARE INSTALLED MUST BE PATCHED TO MATCH EXISTING AFTER LINES ARE INSTALLED.
- PRIOR TO BIDDING, OBTAIN A COPY OF THE SPECIFICATIONS AND PLANS, VISIT THE JOB SITE, TAKE NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. NO ALLOWANCES WILL BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.
- PIPING PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRESTOPPED IN ACCORDANCE WITH APPLICABLE CODES.
- ALL WORK ON THE PLUMBING DRAWINGS SHALL BE COMPLETED BY THE PLUMBING CONTRACTOR UNLESS SPECIFIED OTHERWISE.
- ANY DISCREPANCIES OR INADEQUACIES BETWEEN THE PLUMBING DRAWINGS AND OTHER DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF OWNER'S REPRESENTATIVE.
- INSTALL ALL PIPING RUNS AS HIGH AS POSSIBLE THROUGHOUT ENTIRE BUILDING. INSTALL LONG RUNS WITHIN JOIST SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STEEL. COORDINATE WITH OTHER TRADES - DUCTWORK, FIRE PROTECTION, PIPING, LIGHTING SYSTEMS, ETC.
- FINAL CONNECTION TO ALL GAS FIRED APPLIANCES TO BE BY PLUMBING CONTRACTOR REGARDLESS OF WHO PROVIDES APPLIANCES. THIS SHALL INCLUDE BUT NOT BE LIMITED TO HVAC EQUIPMENT, COOKING EQUIPMENT, EMERGENCY GENERATORS, DOMESTIC WATER HEATERS, ETC.
- ALL PLUMBING FIXTURES SHALL HAVE THEIR OWN INDEPENDENT SHUT OFF BALL VALVES, INSTALLED IN AN EASILY ACCESSIBLE LOCATION.
- COORDINATE ALL FURRING REQUIREMENTS AND WALL THICKNESS WITH PIPE AND ACCESS PANEL INSTALLATIONS. COORDINATE ACCESS PANEL LOCATIONS WITH INTERIOR ELEVATIONS TO AVOID CONFLICTS WITH EQUIPMENT, GRAB BARS, AND DECORATIVE ELEMENTS.
- REFER TO SPECIFICATIONS FOR ALL PIPING MATERIALS AND SERVICES.
- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.

SUBMITTAL REVIEW NOTES

- STRICT ADHERENCE TO AIA A201 WILL BE OBSERVED WHEN REVIEWING ALL SUBMITTALS. OBTAIN A COPY AND BE FAMILIAR WITH CONTRACTOR RESPONSIBILITIES WHEN SUBMITTING ON PROPOSED PRODUCTS. ANY SUBMITTAL NOT MARKED AS BEING IN CONFORMANCE WITH THE CONTRACT DOCUMENTS WILL BE RETURNED "NOT REVIEWED".
- SUBMITTALS MUST BE BROKEN OUT ACCORDING TO SPECIFICATION SECTION. COMBINED SUBMITTALS WITH MULTIPLE SPECIFICATION SECTIONS WILL BE RETURNED "NOT REVIEWED".
- SUBMITTALS MUST INCLUDE ONLY INFORMATION RELEVANT TO THE PROJECT AND BE CLEARLY MARKED WHAT THE PROPOSED PRODUCTS ARE. EXCESSIVELY LENGTHY SUBMITTALS INCLUDING COPIOUS AMOUNTS OF IRRELEVANT INFORMATION AND/OR NOT CLEARLY MARKED WILL BE RETURNED "NOT REVIEWED".
- SUBMITTALS FOR VALUE ENGINEERING ITEMS NEGOTIATED BETWEEN THE CONTRACTOR AND THE OWNER WILL BE RETURNED "NOT REVIEWED". THE CONTRACTOR ASSUMES COMPLETE RESPONSIBILITY AND LIABILITY FOR VALUE ENGINEERING ITEMS NOT APPROVED BY THIS OFFICE.
- THE CONTRACTOR MAY SUBMIT UP TO FIVE SUBMITTALS TO THE OFFICE AT ANY ONE TIME. THESE FIVE SUBMITTALS WILL BE RETURNED WITHIN FIVE BUSINESS DAYS. IF MORE THAN FIVE SUBMITTALS ARE IN FOR REVIEW AT ANY ONE TIME, ONE ADDITIONAL BUSINESS DAY WILL BE REQUIRED FOR EACH SUBMITTAL.
- EXPEDITED REVIEW FOR LONG LEAD ITEMS WILL BE PERFORMED AT OUR DISCRETION. PAST EXPERIENCE WITH THE SUBMITTING CONTRACTOR WILL BE A FACTOR IN OUR DECISION TO PERFORM AN EXPEDITED REVIEW.



KENT R. ANDERSON, P.E.
200 BROAD STREET
BOISE, IDAHO 83702
PHONE: (208) 343-4656 FAX: (208) 343-1658
WWW.CSHQA.COM
I AM AN ENGINEER IN THE STATE OF OHIO. MY EXPIRES ON 12/31/2015. I AM NOT PROVIDING ENGINEERING SERVICES IN ANY OTHER STATE. I AM NOT PROVIDING ARCHITECTURAL SERVICES. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES. I AM NOT PROVIDING ANY OTHER SERVICES.

THERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION
427 Shoshone St N Twin Falls, ID
CSHOA
BOISE, ID 83702
PHONE: (208) 343-4656 FAX: (208) 343-1658
WWW.CSHQA.COM

AGENCY REVIEW SET

PROJECT 21403.000	DATE 03-31-23
DRAWN KRA	CHECKED KRA
REVISED	

SHEET TITLE
PLUMBING COVER SHEET

SHEET
P00
ORIGINAL SHEET SIZE
36" x 48"

WATER MAIN SIZING CALCULATION - 2017 IDAHO STATE PLUMBING CODE

Project Name: Twin Falls Judicial Building Twin Falls, Idaho Date: 12/14/2022
 Project #: 21403 Existing Building Designer: Kent Anderson

Pressure available at Street Main 78 PSIG
 Pressure loss through water meter 5 PSIG
 Pressure loss through backflow device (building supply) 7 PSIG
 Pressure loss (Static) due to system height System Height = 18 FT 7.74 PSIG
 Pressure required to operate remote fixture (20 PSI - Flush... (25 PSI... 25 PSIG

Actual length of pipe, service tap to remote fixture 350 Feet
 Fitting Factor multiplier (0 to 50% of actual length) 50 %
 Equivalent length of piping system 525 Feet (equiv.)

Remaining Pressure = 33 PSIG
 Maximum allowable pressure loss/100ft = 6.3 PSIG

FIXTURE	SERV...	WFU	FIX QTY	TOTAL WFU
Bath/Comb Bath/Shower (fill)	Either	4		
Bath/Comb Bath/Shower (fill)	Private	10		
Bidet	Private	1		
Clothes Washer	Either	4		
Dental Unit, cuspidor	Public	1		
Dishwasher, domestic	Either	1.5		
Drinking Fountain or Water cooler	Either	0.5	2	1
Drinking Fountain or Water cooler, assembly	Public	0.75		
Hose Bibb	Either	2.5	1	2.5
Hose Bibb, each additional	Either	1	1	1
Lavatory	Either	1	8	8
Lawn Sprinkler, each head	Either	1		
Mobile Home, each (minimum)	Private	12		
Sinks: Bar Sink	Private	1		
Bar Sink	Public	2	6	12
Clinic Faucet	Public	3		
Clinic Flushometer Valve with or without faucet	Public	8		
Kitchen Sink, domestic	Either	1.5		
Laundry	Either	1.5		
Service or Mop Basin	Private	1.5	2	6
Service or Mop Basin	Public	3		
Washup, each set of faucets	Public	2		
Shower, per head	Either	2		
Urinal, 1.0 GPF flushometer valve	Private	3		
Urinal, 1.0 GPF flushometer valve	Public	4	2	8
Wash Fountain, circular spray	Public	4		
Water Closet, 1.6 GPF Gravity Tank or Flushometer Tank	Either	2.5		
Water Closet, 1.6 GPF Flushometer Valve	Either	5	13	65
System Total WFU: 103.5				
WFU conversion to GPM: 68				

MISCELLANEOUS FIXTURES

FIXTURE	FLOW RATE (GPM)	FIX QTY	TOTAL WFU
Refrigerator ice maker	0.5	6.0	3
Total Miscellaneous GPM = 3			
System Total GPM = 71.0			
Water Main Service Size (inches) = 2.5			

6 PSI LOSS / 100 FT
 CW VELOCITY = 8 FPS, HW VELOCITY = 5 FPS

BRANCH PIPING SIZE	GPM	FW-FT	FU-FV
1/2"	3.4	3.4	3.5
3/4"	7.5	7.5	9
1"	15	14	21
1-1/4"	29	24	51
1-1/2"	41	30	90
2"	80	51	275
2-1/2"	112	72	443
3"	180	112	809
4"	300	190	1755

Notes: 1. The plumbing fixture water fixture units were selected from Table A103.1.
 2. The branch pipe chart sizes were selected from Charts A105.1(2) and A105.1(1).
 3. WFU refers to water fixture units.

WASTE MAIN SIZING CALCULATION - 2017 IDAHO STATE PLUMBING CODE

Project Name: Twin Falls Judicial Building Twin Falls, Idaho Date: 12/15/2022
 Project #: 21403 Existing Building Designer: Kent Anderson

FIXTURE	SERVICE	DFU	SANITARY FIX QTY	TOTAL DFU
Bath/Comb Bath/Shower	Either	2		
Clothes Washer (domestic 2" standpipe)	Either	3		
Dishwasher (domestic with independent drain)	Either	2		
Drinking Fountain or Water Cooler	Either	0.5	2	1
Food Waste Grinder (commercial)	Public	3		
Floor Drain (emergency)	Public	2	9	
Floor Drain (2" through 4" trap)	Either	2		
Shower (single head trap)	Either	2		
Multi-Head (each additional)	Either	1		
Lavatory (in sets of two or three)	Either	2	8	8
Washmountain (1-1/2" trap)	Public	2		
Washmountain (2" trap)	Public	3		
Receptor: indirect waste, up to 7.5 GPM	Either	1		
Receptor: indirect waste, 8 GPM to 30 GPM	Either	4		
Sinks: Bar	Private	1		
Bar	Public	2	6	12
Clinical	Public	6		
Commercial (with food waste)	Public	3		
Special purpose (1-1/2" trap)	Public	3		
Special purpose (2" trap)	Public	4		
Special purpose (3" trap)	Public	6		
Kitchen (domestic with/without disposal or DW)	Either	2		
Laundry (with/without discharge from a cloths washer)	Either	2		
Service or mop basin (2" or 3" trap)	Public	3	2	6
Wash (each set of faucets)	Public	2	2	4
Urinal (1.0 GPF integral trap)	Either	2		
Water Closet (1.6 GPF, gravity tank or flushometer valve)	Private	3		
Water Closet (1.6 GPF, gravity tank or flushometer valve)	Public	4	13	52
Total System Drainage Fixture Units: SS Units: 63				
Sanitary Sewer System Main Pipe Size: SS Size: 4				

Notes: 1. The plumbing fixture drainage fixture units were selected from Tables 702.1 and 702.2(2).
 2. The sanitary sewer system main pipe size was selected from Table 703.2.
 3. DFU refers to drainage fixture units.
 4. SS refers to sanitary sewer.

NATURAL GAS CALCULATION

Project Name: Twin Falls Judicial Building Twin Falls, Idaho Date: 2/1/2023
 Project Number: 21403 Existing Building Designer: Kent Anderson

DELIVERY PRESSURE = 2 PSI
 TOTAL DEVELOPED LENGTH = 222 FT
 TOTAL BUILDING CONNECTED LOAD = 784 MBH
 DELIVERY PIPE SIZE = 1 IN

CODE USED = 2018 INTERNATIONAL FUEL GAS CODE
 TABLES USED = 402.4(1) AND 402.4(5)

MARK TOTAL MBH	DIST. METER TO PRV, FT	PIPE SIZE ENTER, PRV...	PIPE SIZE EXIT, PRV, IN	EQUIPMENT SERVED	CAPACITY MBH	DIST. PRV TO EQUIP., FT	PIPE SIZE SERV. EQUIP., IN
PRV-1A	60	3/4	1-1/4	RTU-1	92.4	27	1
185 MBH				RTU-2	92.4	27	1
PRV-2A	117	3/4	1-1/4	RTU-3	92.4	25	1
185 MBH				RTU-4	92.4	28	1
PRV-3A	178	3/4	1-1/4	RTU-5	92.4	23	1
185 MBH				RTU-6	92.4	24	1
PRV-4A	222	3/4	1-1/4	RTU-7	105	25	1
PRV-5A	21	3/4	1	WH-1	125	20	1
TOTAL CONNECTED LOAD = 784							

NOTES: 1. A 1" NATURAL GAS PIPE AT 2 PSI AND 250 FT TOTAL DEVELOPED LENGTH CAN DELIVER 1,040 CFH.
 2. THE LONGEST LENGTH METHOD WAS USED TO CALCULATE THE GAS PIPING. ALL PIPING LENGTHS ARE SHOWN AS TOTAL DEVELOPED LENGTH FROM METER TO PRV OR PRV TO EQUIPMENT. ALL GAS PIPING SHALL BE STANDARD WEIGHT BLACK STEEL PER SPECIFICATION.
 3. THE SYSTEM PRESSURE ENTERING THE PRESSURE REGULATORS IS 2 PSI AND THE PRESSURE EXITING THE REGULATORS IS 7 IN WC.
 4. FURNISH GAS PRESSURE REGULATOR FISHER SERIES CS400 OR EQUAL FOR ALL NEW REGULATORS. INSTALL VENT LIMITED REGULATORS WHEN INSTALLING REGULATORS INSIDE THE BUILDING.

WATER MAIN SIZING CALCULATION - 2017 IDAHO STATE PLUMBING CODE

Project Name: Twin Falls Judicial Building Twin Falls, Idaho Date: 12/14/2022
 Project #: 21403 New Building Addition Designer: Kent Anderson

Pressure available at Street Main 78 PSIG
 Pressure loss through water meter 5 PSIG
 Pressure loss through backflow device (building supply) 7 PSIG
 Pressure loss (Static) due to system height System Height = 42 FT 18.06 PSIG
 Pressure required to operate remote fixture (20 PSI - Flush... (25 PSI... 25 PSIG

Actual length of pipe, service tap to remote fixture 400 Feet
 Fitting Factor multiplier (0 to 50% of actual length) 25 %
 Equivalent length of piping system 500 Feet (equiv.)

Remaining Pressure = 25 PSIG
 Maximum allowable pressure loss/100ft = 5.0 PSIG

FIXTURE	SERV...	WFU	QTY Bmt	QTY 1st	QTY 2nd	TOTAL WFU
Bath/Comb Bath/Shower (fill)	Either	4				
Bath/Comb Bath/Shower (fill)	Private	10				
Bidet	Private	1				
Clothes Washer	Either	4				
Dental Unit, cuspidor	Public	1				
Dishwasher, domestic	Either	1.5				
Drinking Fountain or Water cooler	Either	0.5	3	3	3	3
Drinking Fountain or Water cooler, assembly	Public	0.75				
Hose Bibb	Either	2.5	1			2.5
Hose Bibb, each additional	Either	1	5	22	26	53
Lavatory	Either	1				
Lawn Sprinkler, each head	Either	1				
Mobile Home, each (minimum)	Private	12				
Sinks: Bar Sink	Private	1				
Bar Sink	Public	2	4	4	16	16
Clinic Flushometer Valve with or without faucet	Public	8				
Kitchen Sink, domestic	Either	1.5				
Laundry	Either	1.5				
Service or Mop Basin	Private	1.5				
Service or Mop Basin	Public	3	1	1	1	9
Washup, each set of faucets	Public	2				
Shower, per head	Either	2				
Urinal, 1.0 GPF flushometer valve	Private	3				
Urinal, 1.0 GPF flushometer valve	Public	4	2	4	24	24
Wash Fountain, circular spray	Public	4				
Water Closet, 1.6 GPF Gravity Tank or Flushometer Tank	Either	2.5				
Water Closet, 1.6 GPF Flushometer Valve	Either	5	5	25	28	290
System Total WFU: 399.5						
WFU conversion to GPM: 130						

MISCELLANEOUS FIXTURES

FIXTURE	FLOW RATE (GPM)	QTY Bmt	QTY 1st	QTY 2nd	TOTAL WFU
Ice machine	1.0	1.0	1.0		2
Refrigerator ice maker	0.5	1.0	1.0		1
Total Miscellaneous GPM = 3.0					
System Total GPM = 133.0					
Water Main Service Size (inches) = 3					

5 PSI LOSS / 100 FT
 CW VELOCITY = 8 FPS, HW VELOCITY = 5 FPS

BRANCH PIPING SIZE	GPM	FW-FT	FU-FV
1/2"	3.4	3.4	3.5
3/4"	6.5	6.5	8
1"	14	14	20
1-1/4"	27	24	46
1-1/2"	38	30	78
2"	75	51	250
2-1/2"	112	72	443
3"	180	112	809
4"	300	190	1755

Notes: 1. The plumbing fixture water fixture units were...
 2. The branch pipe chart sizes were selected to...
 3. WFU refers to water fixture units.

WASTE MAIN SIZING CALCULATION - 2017 IDAHO STATE PLUMBING CODE

Project Name: Twin Falls Judicial Building Twin Falls, Idaho Date: 12/15/2022
 Project #: 21403 New Building Addition Designer: Kent Anderson

FIXTURE	SERVICE	DFU	QTY Bmt	QTY 1st	QTY 2nd	TOTAL DFU
Bath/Comb Bath/Shower	Either	2				
Clothes Washer (domestic 2" standpipe)	Either	3				
Dishwasher (domestic with independent drain)	Either	2				
Drinking Fountain or Water Cooler	Either	0.5	3	3	3	3
Food Waste Grinder (commercial)	Public	3	7	21	23	23
Floor Drain (emergency)	Public	2				
Floor Drain (2" through 4" trap)	Either	2				
Shower (single head trap)	Either	2				
Multi-Head (each additional)	Either	1	5	22	26	53
Lavatory (single)	Either	2				
Lavatory (in sets of two or three)	Either	2				
Washmountain (1-1/2" trap)	Public	2				
Washmountain (2" trap)	Public	3				
Receptor: indirect waste, up to 7.5 GPM	Either	1				
Receptor: indirect waste, 8 GPM to 30 GPM	Either	4				
Sinks: Bar	Private	1				
Bar	Public	2	4	4	16	16
Clinical	Public	6				
Commercial (with food waste)	Public	3				
Special purpose (1-1/2" trap)	Public	3				
Special purpose (2" trap)	Public	4				
Special purpose (3" trap)	Public	6				
Kitchen (domestic with/without disposal or DW)	Either	2				
Laundry (with/without discharge from a cloths washer)	Either	2				
Service or mop basin (2" or 3" trap)	Public	3	1	1	1	9
Wash (each set of faucets)	Public	2				
Urinal (1.0 GPF integral trap)	Either	2	2	4	12	12
Water Closet (1.6 GPF, gravity tank or flushometer valve)	Private	3				
Water Closet (1.6 GPF, gravity tank or flushometer valve)	Public	4	5	25	28	292
Total System Drainage Fixture Units: SS Units: 325						
Sanitary Sewer Waste System Main Pipe Size: SS Size: (3) 4"						

Notes: 1. The plumbing fixture drainage fixture units were selected from Tables 702.1 and 702.2(2).
 2. The sanitary sewer system main pipe size was selected from Table 703.2.
 3. DFU refers to drainage fixture units.
 4. SS refers to sanitary sewer.

NATURAL GAS CALCULATION

Project Name: Twin Falls Judicial Building Twin Falls, Idaho Date: 2/17/2023
 Project Number: 21403 New Building Addition Designer: Kent Anderson

DELIVERY PRESSURE = 2 PSI
 TOTAL DEVELOPED LENGTH = 338 FT
 TOTAL BUILDING CONNECTED LOAD = 6,303 MBH
 DELIVERY PIPE SIZE = 2.5 IN

CODE USED = 2018 INTERNATIONAL FUEL GAS CODE
 TABLES USED = 402.4(1) AND 402.4(5)

MARK TOTAL MBH	DIST. METER TO PRV, FT	PIPE SIZE ENTER, PRV...	PIPE SIZE EXIT, PRV, IN	EQUIPMENT SERVED	CAPACITY MBH	DIST. PRV TO EQUIP., FT	PIPE SIZE SERV. EQUIP., IN
PRV-1B	171	3/4	1-1/4	RTU-20	92.4	17	1
197.4 MBH				RTU-21	105	12	1
PRV-2B	188	3/4	1	RTU-19	92.4	8	1
PRV-3B	176	3/4	1	RTU-16	92.4	13	1
PRV-4B	195	3/4	1-1/4	DCAS-1	200	38	1-1/4
292.4 MBH				RTU-14	92.4	29	1
PRV-5B	246	3/4	1-1/4	RTU-10	92.4	18	1
184.8 MBH				RTU-13	92.4	14	1
PRV-6B	278	3/4	1	DOES-2	120	18	1
PRV-7B	338	3/4	1	RTU-8	105	27	1
PRV-8B	247	3/4	1	RTU-11	92.4	17	1
PRV-9B	225	3/4	1-1/4	RTU-9	92.4	16	1
184.8 MBH				RTU-12	92.4	16	1
PRV-10B	215	3/4	1	RTU-15	105	18	1
PRV-11B	193	3/4	1	RTU-17	151.2	13	1
PRV-12B	169	3/4	1	RTU-18	92.4	14	1
PRV-13B	114	3/4	1-1/4	RTU-22	151.2	35	1
302.4 MBH				RTU-23	151.2	16	1
PRV-14B	80	3/4	1	WH-2	150	10	1
PRV-15B	100	2	3	GENERATOR	4,140	10	3
TOTAL CONNECTED LOAD = 6,303							

NOTES: 1. A 2-1/2" NATURAL GAS PIPE AT 2 PSI AND 350 FT TOTAL DEVELOPED LENGTH CAN DELIVER 8,210 CFH.
 2. THE LONGEST LENGTH METHOD WAS USED TO CALCULATE THE GAS PIPING. ALL PIPING LENGTHS ARE SHOWN AS TOTAL DEVELOPED LENGTH FROM METER TO PRV OR PRV TO EQUIPMENT. ALL GAS PIPING SHALL BE STANDARD WEIGHT BLACK STEEL PER SPECIFICATION.
 3. THE SYSTEM PRESSURE ENTERING THE PRESSURE REGULATORS IS 2 PSI AND THE PRESSURE EXITING THE REGULATORS IS 7 IN WC.
 4. FURNISH GAS PRESSURE REGULATOR FISHER SERIES CS400 OR EQUAL FOR ALL NEW REGULATORS.



Original Documents are Held at:
 200 Broad Street
 Boise, ID 83702

KENT R. ANDERSON, P.E.
 200 BROAD STREET
 BOISE, IDAHO 83702
 (208) 343-4656
 kranderson@cshea.com

AGENCY REVIEW SET

PROJECT: 21403.000 DATE: 03-31-23
 DRAWN: KRA CHECKED: KRA
 REVISED:

CSHOA

THELON W. WARD JUDICIAL BUILDING
 REMODEL & EXPANSION
 427 Shoshone St N Twin Falls, ID

PLUMBING CALCULATIONS

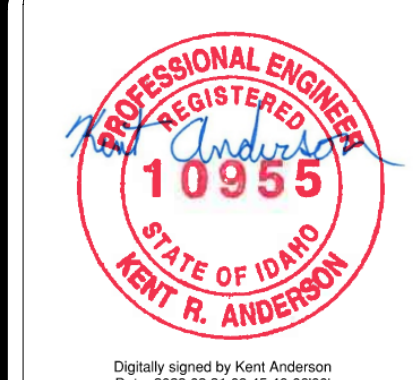
SHEET TITLE

SHEET

P01

ORIGINAL SHEET SIZE
 36" x 48"

4/19/2023 8:16:49 AM



KENT R. ANDERSSON, P.E.
 200 BROAD STREET
 BOISE, IDAHO 83720
 PHONE: 208-343-4656 FAX: 208-343-1658
 WWW.CSHQA.COM
 ORIGINAL DOCUMENTS ARE HELD AT
 CSHQA, INC. OFFICE, 200 BROAD STREET,
 BOISE, IDAHO 83720

**THELON W. WARD JUDICIAL BUILDING
 REMODEL & EXPANSION**
 427 Shoshone St N Twin Falls, ID

PROJECT
 21403.000

DATE
 03-31-23

DRAWN
 KRA

CHECKED
 KRA

REVISD

AGENCY
 REVIEW SET

PROJECT
 21403.000

DATE
 03-31-23

DRAWN
 KRA

CHECKED
 KRA

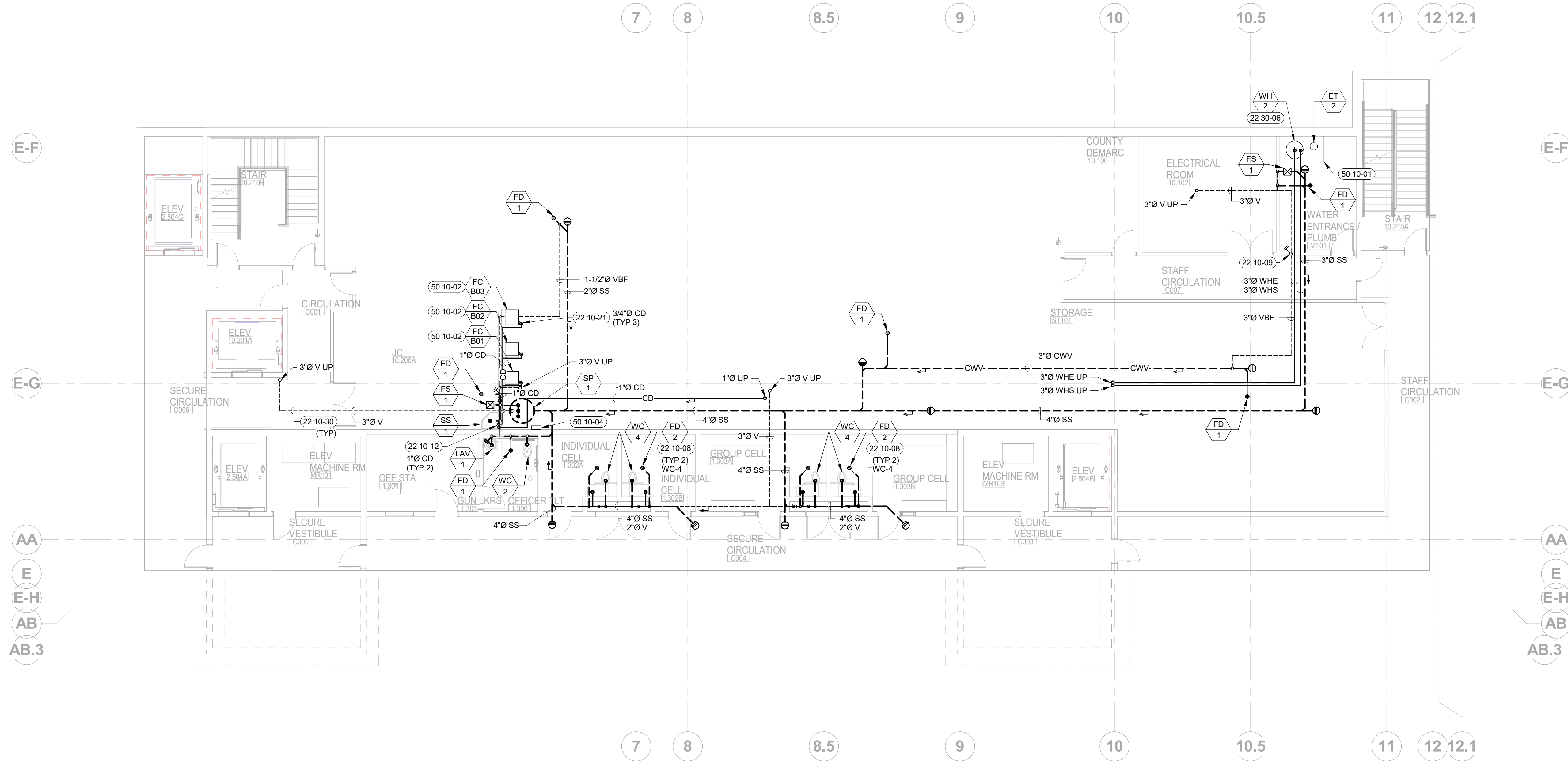
REVISD

LEGEND:
 (RE: PLUMBING COVER SHEET FOR ADDITIONAL INFORMATION)

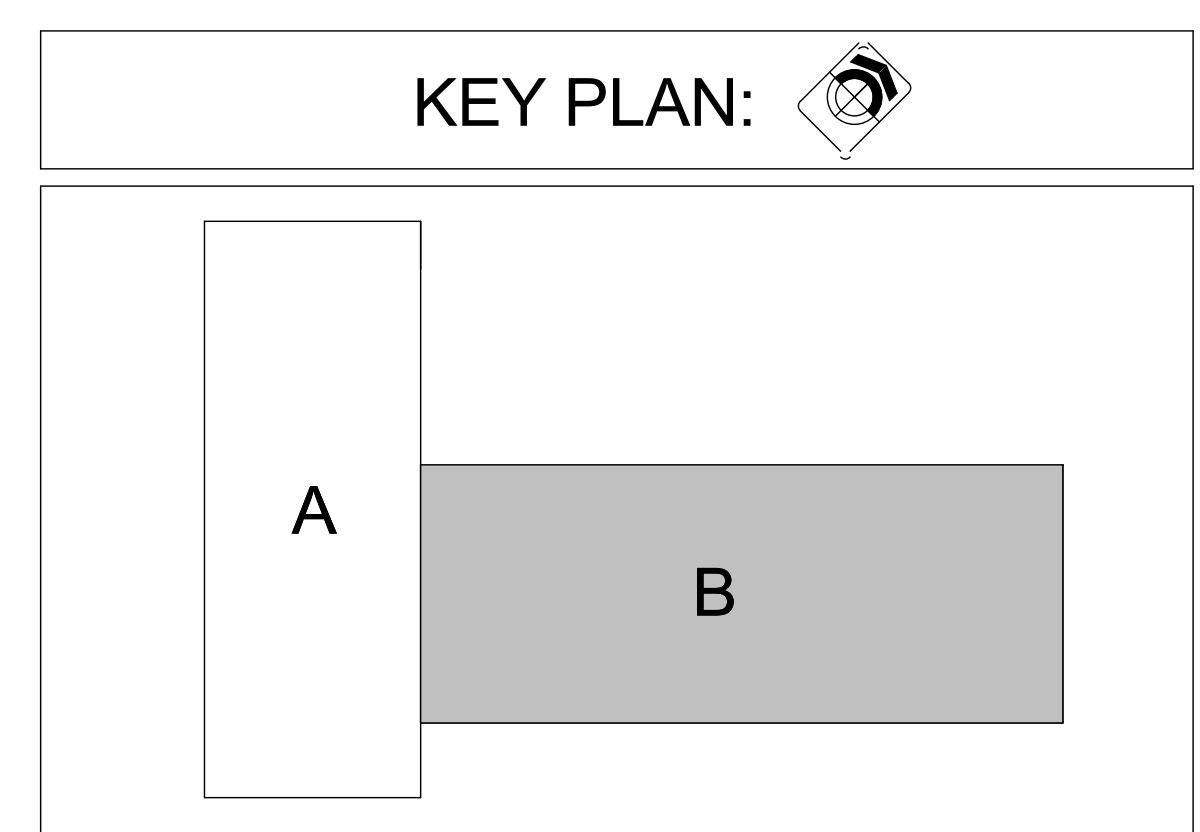
---	SANITARY SEWER	○---	FLOOR CLEANOUT
—SS—	CAST IRON SANITARY SEWER	○---	FLOOR DRAIN, ROUND
—GW—	GREASE WASTE	○---	FLOOR SINK
—RWL—	RAIN WATER LEADER	—	TRENCH DRAIN
—OFL—	OVERFLOW LEADER	—	FIXTURE OR EQUIPMENT CALLOUT (RE: FIXTURE AND SCHEDULES)
----	SANITARY VENT	○	XX
—CD—	CONDENSATE DRAIN	—	SE
—W—	INDIRECT WASTE		

- GENERAL NOTES:**
- EXISTING BUILDING WASTE AND VENT PIPING IS EXISTING. CONTRACTOR SHALL VERIFY EXACT LOCATION AND FLOW LINE ELEVATION OF ALL CONNECTION POINTS PRIOR TO INSTALLATION OF NEW PIPING. ALERT GENERAL CONTRACTOR IMMEDIATELY UPON DISCOVERY OF ANY CONDITIONS THAT WILL NOT ALLOW FOR INVERTS AND CONNECTION POINTS NOTED OTHERWISE.
 - SLOPE ALL SS, GW, CD, RWL, AND OFL PIPING AT 1/4" PER FOOT UNLESS NOTED OTHERWISE.
 - ALL CONDENSATE PIPING IS 3/4" Ø UNLESS NOTED OTHERWISE.
 - PROVIDE INDIRECT WASTE PIPING TO RECEPTORS FROM ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION. PIPING SHALL BE TYPE DWV OR TYPE M COPPER INSTALLED A MINIMUM OF 1/2" OFF OF ADJACENT FLOOR AND WALL SURFACES.
 - INSTALL ALL PLUMBING VTR AND GAS VENTS A MINIMUM OF 10'-0" FROM ALL OSA INTAKES.
 - INSTALL ALL NEW BELOW GROUND WASTE OR VENT PIPING. PROVIDE FOR ALL EXCAVATION AND BACKFILL AS REQUIRED. REFER TO GENERAL NOTES FOR SLOPE REQUIREMENTS.
 - ROUTE ALL ABOVE GROUND VENT PIPING OVERHEAD AS HIGH AS POSSIBLE IN ROOF STRUCTURE. COORDINATE ROUTING WITH STRUCTURE AND DUCTWORK LAYOUT.
 - FURNISH ALL FLOOR CLEANOUTS WITH HEAVY DUTY NICKEL BRONZE TOP WITH CAST IRON ADJUSTABLE STRAINER AND ASS FLG.
 - INSULATE ALL RAIN WATER PIPING ABOVE GRADE.
 - INSTALL ACOUSTICAL CALUMKING TO ALL PIPES PENETRATING ACOUSTICAL WALLS. SEE ARCHITECT'S DRAWINGS FOR ALL ACOUSTICAL WALLS.
 - ALL VENTS SHARED BY BACK TO BACK WATER CLOSETS, LAVATORIES, AND FLOOR DRAINS ARE 2" Ø. 1-1/2" Ø. 1-1/2" Ø RESPECTIVELY UNLESS OTHERWISE NOTED.
 - REFER TO THE PLUMBING DETAIL SHEET FOR ALL DETAILS THAT ARE NOT REFERENCED.

- SHEET NOTES:**
- INSTALL TRAP PRIMER PIPING ON FLOOR DRAIN, TRENCH DRAIN, OR FLOOR SINK OUTLET TO THE TRAP PRIMER SYSTEM INDICATED. RE: WATER AND GAS PLAN FOR WATER CONNECTION AND TRAP PRIMER LOCATIONS.
 - EXTEND 3/8" SANITARY VENT PIPING TO BEGIN COMBINATION WASTE AND VENT SYSTEM. RISE UP AT WALL COLUMN AND PROVIDE CLEANOUT. RE: ARCHITECTURAL DETAILS FOR EXPOSED PIPING PROTECTION (WHERE APPLICABLE).
 - ROUTE 1" Ø CD PIPE DOWN IN WALL AND DRAIN INDIRECT TO SERVICE SINK.
 - CONNECT NEW CONDENSATE DRAIN TO MECHANICAL UNIT WITH P-TRAP AND ROUTE AS SHOWN. SIZE AS INDICATED. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT IN FIELD. RE: AC UNIT CONDENSATE DRAIN DETAIL.
 - ROUTE NEW WASTE OR VENT PIPING OVERHEAD. COORDINATE ROUTING WITH STRUCTURE AND DUCTWORK LAYOUT PRIOR TO CONSTRUCTION.
 - RE: P71-20 FOR GAS FIRED WATER HEATER PIPING DETAIL.
 - 4" THICK HOUSEKEEPING PAD. COORDINATE EXACT PAD DIMENSIONS WITH EQUIPMENT MOUNTING REQUIREMENTS PRIOR TO CONSTRUCTION. RE: ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
 - EQUIPMENT FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
 - INSTALL SUMP PUMP SP-1 CONTROL PANEL ON WALL AT 48" AFF TO BOTTOM OF PANEL.



1 WASTE & VENT PLAN - BASEMENT
 1/8" = 1'-0"



**WASTE & VENT PLAN
 BASEMENT**

P20

ORIGINAL SHEET SIZE
 36" x 48"



Digitally signed by Kent Anderson
Date: 2024.10.16 16:44:00 -0700

ORIGINAL DOCUMENTS ARE HELD AT
200 BROAD STREET, 2ND FLOOR, BOISE, ID 83702

KENT R. ANDERSON, P.E.
200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-335-4655 FAX: 208-335-1658
WWW.CSHQA.COM

LEGEND:

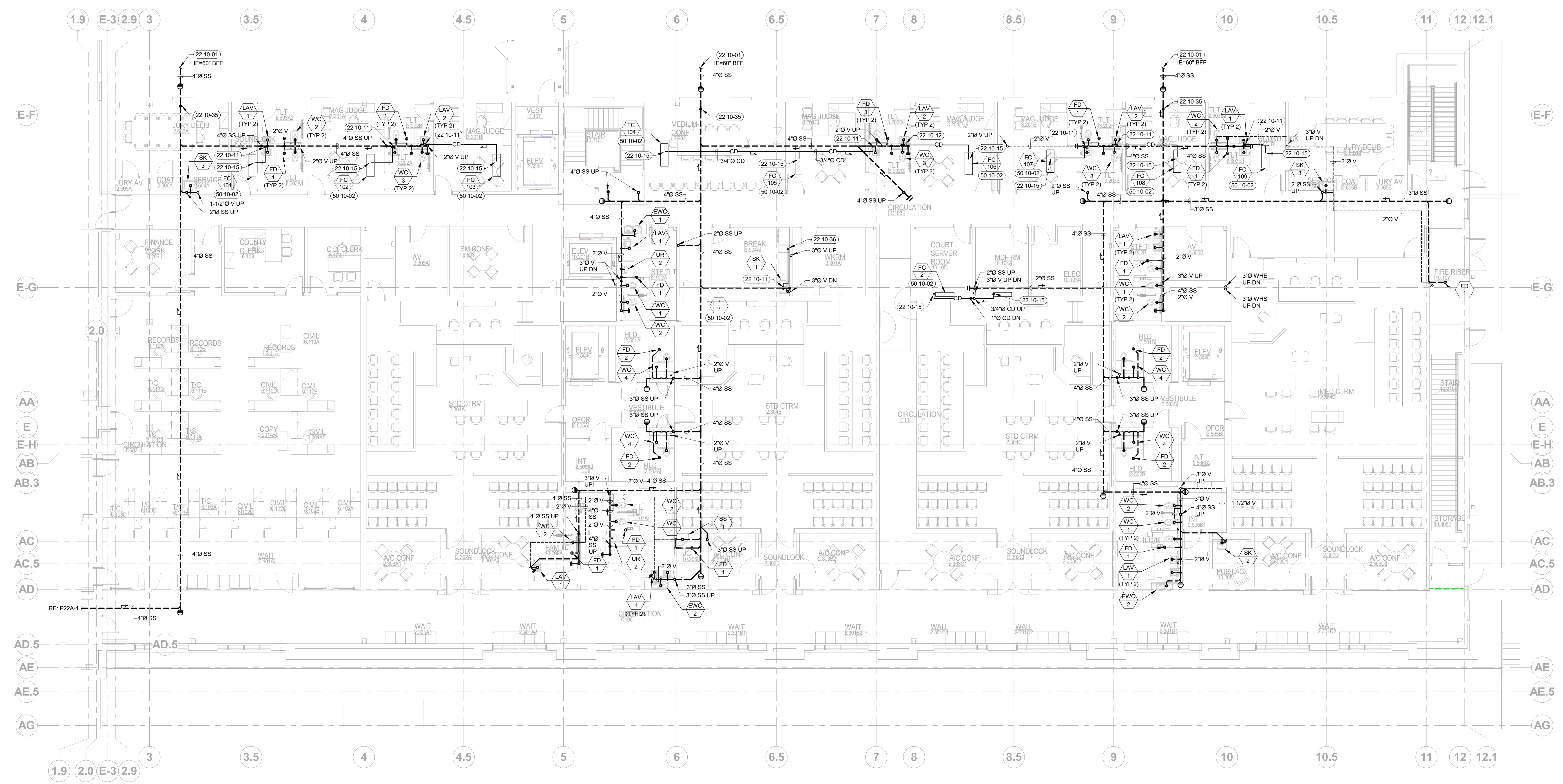
- SANITARY SEWER
- CAST IRON SANITARY SEWER
- GREASE WASTE
- RAIN WATER LEADER
- OVERFLOW LEADER
- SANITARY VENT
- CONDENSATE DRAIN
- INDIRECT WASTE
- FLOOR CLEANOUT
- FLOOR DRAIN, ROUND
- FLOOR SINK
- TRENCH DRAIN
- FIXTURE OR EQUIPMENT CALLOUT (REF. FIXTURE AND EQUIPMENT SCHEDULES)

GENERAL NOTES:

- A. EXISTING BUILDING WASTE AND VENT PIPING IS EXISTING. CONTRACTOR SHALL VERIFY EXACT LOCATION AND FLOW LINE ELEVATION OF ALL CONNECTION POINTS PRIOR TO INSTALLATION OF NEW PIPING. ALERT GENERAL CONTRACTOR IMMEDIATELY UPON DISCOVERY OF ANY CONDITIONS THAT WILL NOT ALLOW FOR INVERTS AND CONNECTION POINTS NOTED OTHERWISE.
- B. SLOPE ALL SS, GW, CD, RWL, AND OFL PIPING AT 1/4" PER FOOT UNLESS NOTED OTHERWISE.
- C. ALL CONDENSATE PIPING IS 3/4" UNLESS NOTED OTHERWISE.
- D. PROVIDE INDIRECT WASTE PIPING TO RECEPTORS FROM ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION. PIPING SHALL BE TYPE DWV OR TYPE M COPPER INSTALLED A MINIMUM OF 1/2" OFF OF ADJACENT FLOOR AND WALL SURFACES.
- E. INSTALL ALL PLUMBING VTR AND GAS VENTS A MINIMUM OF 10'-0" FROM ALL GSA INTAKES.
- F. INSTALL ALL NEW BELOW GROUND WASTE OR VENT PIPING. PROVIDE FOR ALL EXCAVATION AND BACKFILL AS REQUIRED. REFER TO GENERAL NOTES FOR SLOPE REQUIREMENTS.
- G. ROUTE ALL ABOVE GROUND VENT PIPING OVERHEAD AS HIGH AS POSSIBLE IN ROOF STRUCTURE. COORDINATE ROUTING WITH STRUCTURE AND DUCTWORK LAYOUT.
- H. FURNISH ALL FLOOR CLEANOUTS WITH HEAVY DUTY NICKEL BRONZE TOP WITH CAST IRON ADJUSTABLE STRAINER AND ASS PLUGS.
- I. INSULATE ALL RAIN WATER PIPING ABOVE GRADE.
- J. INSTALL ACOUSTICAL CAULKING TO ALL PIPES PENETRATING ACOUSTICAL WALLS. SEE ARCHITECT'S DRAWINGS FOR ALL ACOUSTICAL WALLS.
- K. ALL VENTS SHARED BY BACK TO BACK WATER CLOSETS, LAVATORIES, AND FLOOR DRAINS ARE 2'-0", 1-1/2"Ø, 1-1/2"Ø RESPECTIVELY UNLESS OTHERWISE NOTED.
- L. REFER TO THE PLUMBING DETAIL SHEET FOR ALL DETAILS THAT ARE NOT REFERENCED.

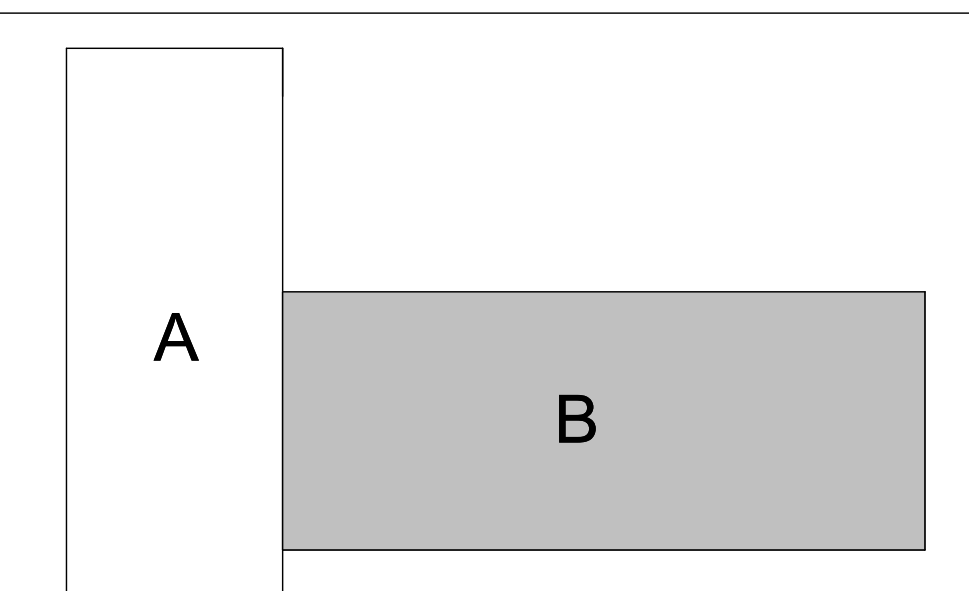
SHEET NOTES:

- 22 10-01 EXTEND SS 5'-0" FROM EDGE OF BUILDING AND CONNECT TO SANITARY SEWER MAIN. RE: CIVIL DRAWINGS FOR CONTINUATION.
- 22 10-11 ROUTE 3/4"Ø CD OR RW PIPE DOWN IN WALL AND DRAIN INDIRECT TO SINK TAILPIECE. PROVIDE TAILPIECE CO FITTINGS FOR CONNECTION.
- 22 10-12 ROUTE 1"Ø CD PIPE DOWN IN WALL AND DRAIN INDIRECT TO SERVICE SINK.
- 22 10-15 CONNECT 3/4"Ø CD TO MECHANICAL UNIT AND ROUTE IN CEILING SPACE AS SHOWN. COORDINATE CO ROUTING WITH STRUCTURE AND DUCTWORK.
- 22 10-35 ROUTE SS PIPING DOWN AT 45 DEGREES AT THIS POINT TO THE INVERT ELEVATION SHOWN EXTING THE BUILDING.
- 22 10-36 CONNECT 3/4"Ø CD PIPING TO OWNER FURNISHED ICE MAKER AND ROUTE IN BACK OF MILLWORK AS SHOWN.
- 50 10-02 EQUIPMENT FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.



1 WASTE & VENT PLAN - LEVEL 1 AREA B
1/8" = 1'-0"

KEY PLAN:



**WASTE & VENT PLAN
LEVEL 1 -
AREA B**

SHEET

P21B

ORIGINAL SHEET SIZE
36" x 48"



ORIGINAL DOCUMENTS ARE HELD AT:
CSHA, INC. OFFICE, 209 W BROAD STREET,
BOISE, IDAHO

KENT R. ANDERSON, P.E.
200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-343-4656 FAX: 208-343-1658
WWW.CSHOA.COM
I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.
I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.
I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.
I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.
I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.
I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.
I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.
I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.
I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.
I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.

THERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION
427 Shoshone St N Twin Falls, ID
200 BROAD STREET
BOISE, ID 83702
PHONE: 208-343-4656 FAX: 208-343-1658
WWW.CSHOA.COM

LEGEND:

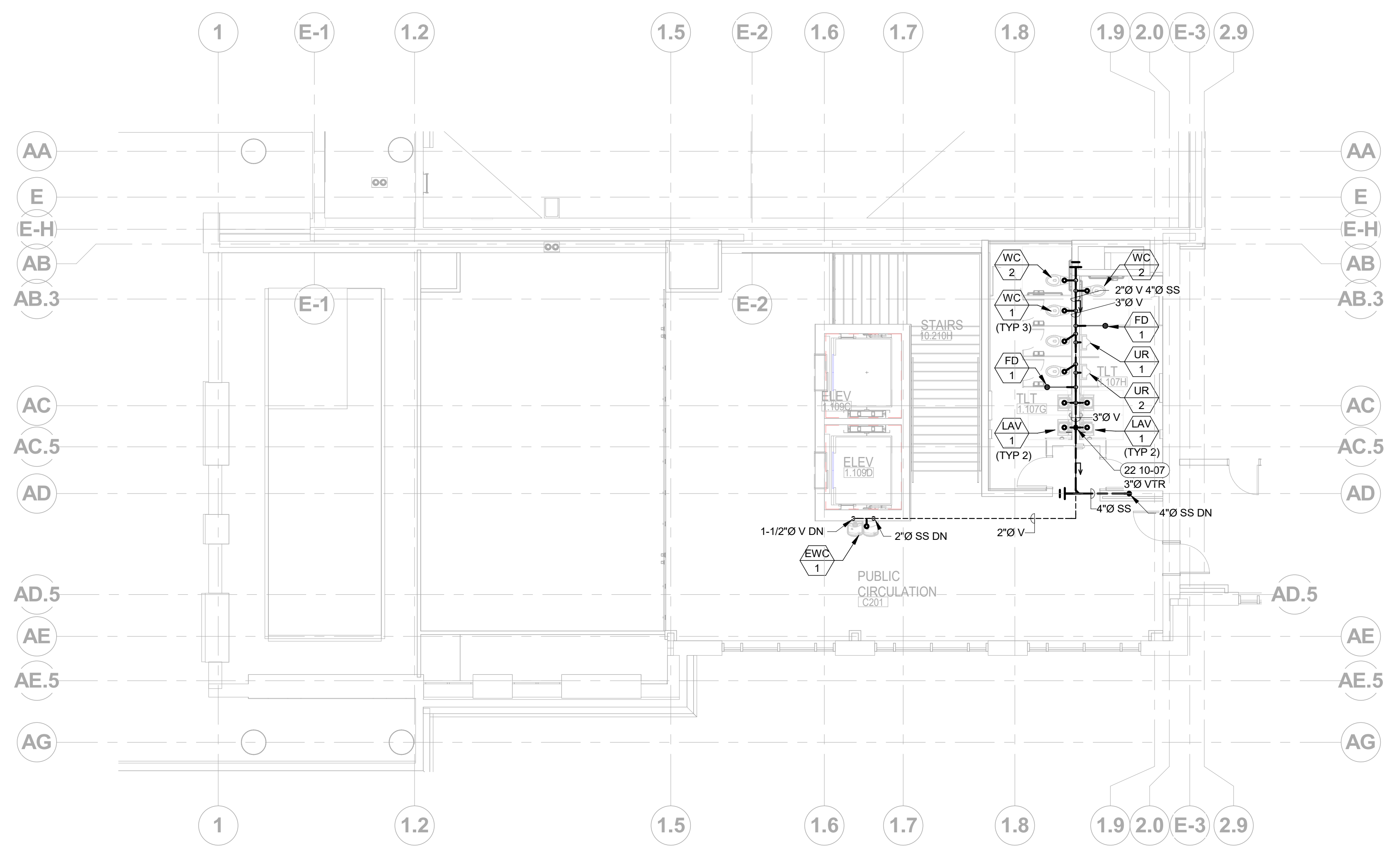
- (RE: PLUMBING COVER SHEET FOR ADDITIONAL INFORMATION)
- SANITARY SEWER
 - CAST IRON SANITARY SEWER
 - GREASE WASTE
 - RAIN WATER LEADER
 - OVERFLOW LEADER
 - SANITARY VENT
 - CONDENSATE DRAIN
 - INDIRECT WASTE
 - FLOOR CLEANOUT
 - FLOOR DRAIN, ROUND
 - FLOOR SINK
 - TRENCH DRAIN
 - FIXTURE OR EQUIPMENT CALLOUT (RE: FIXTURE AND EQUIPMENT SCHEDULES)

GENERAL NOTES:

- A. EXISTING BUILDING WASTE AND VENT PIPING IS EXISTING. CONTRACTOR SHALL VERIFY EXACT LOCATION AND FLOW LINE ELEVATION OF ALL CONNECTION POINTS PRIOR TO INSTALLATION OF NEW PIPING. ALERT GENERAL CONTRACTOR IMMEDIATELY UPON DISCOVERY OF ANY CONDITIONS THAT WILL NOT ALLOW FOR INVERTS AND CONNECTION POINTS NOTED.
- B. SLOPE ALL SS, GW, CD, RWL, AND OFL PIPING AT 1/4" PER FOOT UNLESS NOTED OTHERWISE.
- C. ALL CONDENSATE PIPING IS 3/4" UNLESS NOTED OTHERWISE.
- D. PROVIDE INDIRECT WASTE PIPING TO RECEPTORS FROM ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION. PIPING SHALL BE TYPE DWV OR TYPE M COPPER INSTALLED A MINIMUM OF 1/2" OFF OF ADJACENT FLOOR AND WALL SURFACES.
- E. INSTALL ALL PLUMBING VTR AND GAS VENTS A MINIMUM OF 10'-0" FROM ALL OSA INTAKES.
- F. INSTALL ALL NEW BELOW GROUND WASTE OR VENT PIPING. PROVIDE FOR ALL EXCAVATION AND BACKFILL AS REQUIRED. REFER TO GENERAL NOTES FOR SLOPE REQUIREMENTS.
- G. ROUTE ALL ABOVE GROUND VENT PIPING OVERHEAD AS HIGH AS POSSIBLE IN ROOF STRUCTURE. COORDINATE ROUTING WITH STRUCTURE AND DUCTWORK LAYOUT.
- H. FURNISH ALL FLOOR CLEANOUTS WITH HEAVY DUTY NICKEL BRONZE TOP WITH CAST IRON ADJUSTABLE STRAINER AND ASS PLUG.
- I. INSULATE ALL RAIN WATER PIPING ABOVE GRADE.
- J. INSTALL ACOUSTICAL CAULKING TO ALL PIPES PENETRATING ACOUSTICAL WALLS. SEE ARCHITECT'S DRAWINGS FOR ALL ACOUSTICAL WALLS.
- K. ALL VENTS SHARED BY BACK TO BACK WATER CLOSETS, LAVATORIES, AND FLOOR DRAINS ARE 2"Ø, 1-1/2"Ø, 1-1/2"Ø RESPECTIVELY UNLESS OTHERWISE NOTED.
- L. REFER TO THE PLUMBING DETAIL SHEET FOR ALL DETAILS THAT ARE NOT REFERENCED.

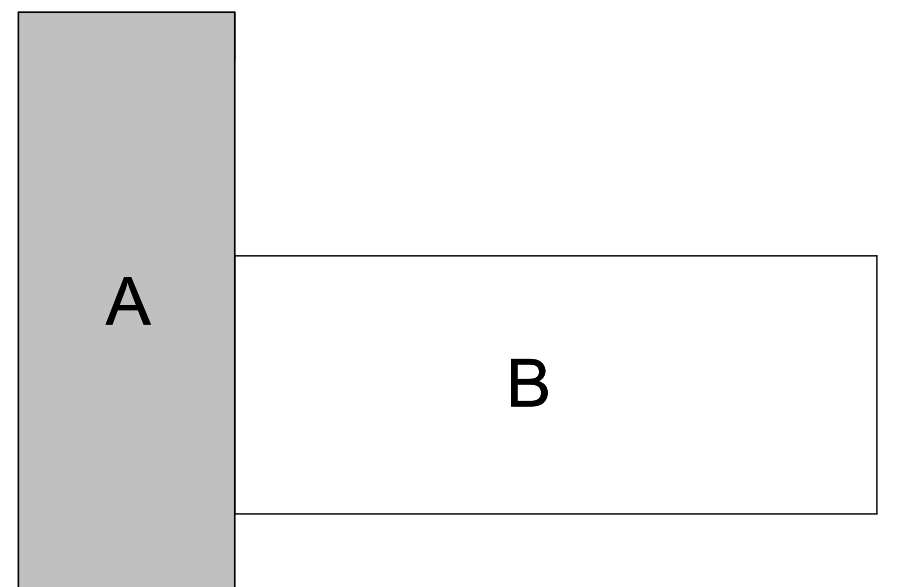
SHEET NOTES:

- 22 10-07 ROUTE SANITARY VENT PIPING THROUGH ROOF. LOCATE 10'-0" MINIMUM FROM ANY AIR INTAKE AND COORDINATE WITH HVAC. EXTEND ABOVE LOCAL SNOW AND DRIFT-LINE CONDITION. SIZE AS INDICATED.



1 WASTE & VENT PLAN - LEVEL 2 AREA A
1/8" = 1'-0"

KEY PLAN:



AGENCY REVIEW SET

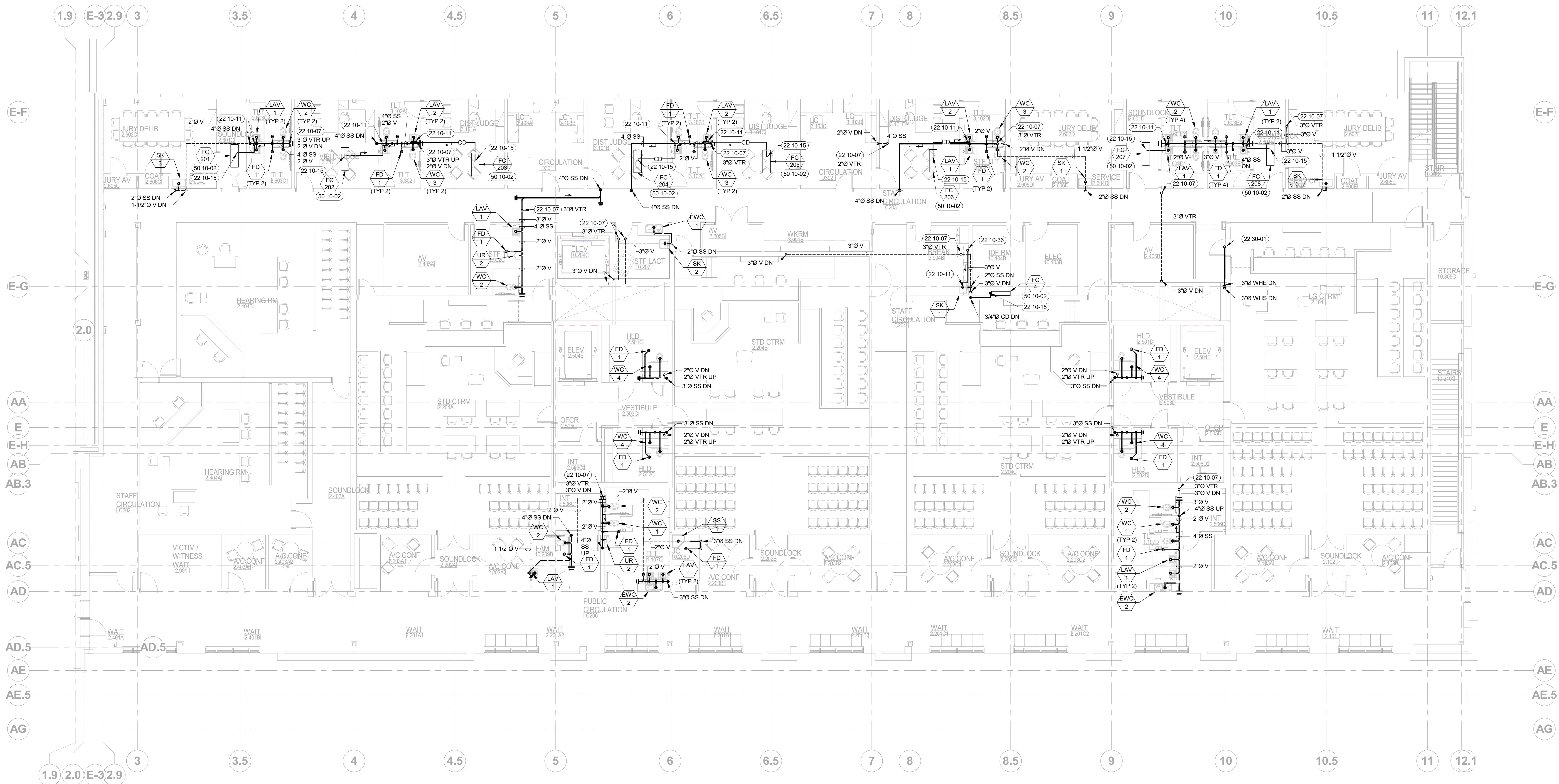
PROJECT 21403.000	DATE 03-31-23
DRAWN KRA	CHECKED KRA
REVISED	

WASTE & VENT PLAN LEVEL 2 - AREA A

SHEET

P22A

ORIGINAL SHEET SIZE
36" x 48"



1 WASTE & VENT PLAN - LEVEL 2 AREA B
1/8" = 1'-0"

LEGEND:
(RE: PLUMBING COVER SHEET FOR ADDITIONAL INFORMATION)

--- SANITARY SEWER	○--- FLOOR CLEANOUT
--- CAST IRON SANITARY SEWER	○--- FLOOR DRAIN, ROUND
--- GREASE WASTE	○--- FLOOR SINK
--- RAIN WATER LEADER	--- TRENCH DRAIN
--- OVERFLOW LEADER	--- FIXTURE OR EQUIPMENT CALLOUT (RE: FIXTURE AND EQUIPMENT SCHEDULES)
--- SANITARY VENT	--- TRENCH DRAIN
--- CONDENSATE DRAIN	--- TRENCH DRAIN
--- INDIRECT WASTE	--- TRENCH DRAIN

- GENERAL NOTES:**
- EXISTING BUILDING WASTE AND VENT PIPING IS EXISTING. CONTRACTOR SHALL VERIFY EXACT LOCATION AND FLOW LINE ELEVATION OF ALL CONNECTION POINTS PRIOR TO INSTALLATION OF NEW PIPING. ALERT GENERAL CONTRACTOR IMMEDIATELY UPON DISCOVERY OF ANY CONDITIONS THAT WILL NOT ALLOW FOR INVERTS AND CONNECTION POINTS NOTED.
 - SLOPE ALL SS, GW, CD, RWL, AND OFL PIPING AT 1/4" PER FOOT UNLESS NOTED OTHERWISE.
 - ALL CONDENSATE PIPING IS 3/4" UNLESS NOTED OTHERWISE.
 - PROVIDE INDIRECT WASTE PIPING TO RECEPTORS FROM ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION. PIPING SHALL BE TYPE DWV OR TYPE M COPPER INSTALLED A MINIMUM OF 12" OFF OF ADJACENT FLOOR AND WALL SURFACES.
 - INSTALL ALL PLUMBING VTR AND GAS VENTS A MINIMUM OF 10'-0" FROM ALL OSA INTAKES.
 - INSTALL ALL NEW BELOW GROUND WASTE OR VENT PIPING. PROVIDE FOR ALL EXCAVATION AND BACKFILL AS REQUIRED. REFER TO GENERAL NOTES FOR SLOPE REQUIREMENTS.
 - ROUTE ALL ABOVE GROUND VENT PIPING OVERHEAD AS HIGH AS POSSIBLE IN ROOF STRUCTURE. COORDINATE ROUTING WITH STRUCTURE AND DUCTWORK LAYOUT.
 - FURNISH ALL FLOOR CLEANOUTS WITH HEAVY DUTY NICKEL BRONZE TOP WITH CAST IRON ADJUSTABLE STRAINER AND ASS PLUG.
 - INSULATE ALL RAIN WATER PIPING ABOVE GRADE.
 - INSTALL ACoustical CAULKING TO ALL PIPES PENETRATING ACoustical WALLS. SEE ARCHITECT'S DRAWINGS FOR ALL ACoustical WALLS.
 - ALL VENTS SHARED BY BACK TO BACK WATER CLOSETS, LAVATORIES, AND FLOOR DRAINS ARE 2" 1-1/2"Ø. 1-1/2"Ø RESPECTIVELY UNLESS OTHERWISE NOTED.
 - REFER TO THE PLUMBING DETAIL SHEET FOR ALL DETAILS THAT ARE NOT REFERENCED.

- SHEET NOTES:**
- ROUTE SANITARY VENT PIPING THROUGH ROOF. LOCATE 10'-0" MINIMUM FROM ANY AIR INTAKE AND COORDINATE WITH HVAC. EXTEND ABOVE LOCAL SNOW AND DRIFT-LINE CONDITION. SIZE AS INDICATED.
 - ROUTE 3/4" Ø CD OR RW PIPING DOWN IN WALL AND DRAIN INDIRECT TO SINK TAILPIECE. PROVIDE TAILPIECE CD FITTING FOR CONNECTION.
 - CONNECT 3/4" Ø CD TO MECHANICAL UNIT AND ROUTE IN CEILING SPACE AS SHOWN. COORDINATE CD ROUTING WITH STRUCTURE AND DUCTWORK.
 - CONNECT 3/4" Ø CD PIPING TO OWNER FURNISHED ICE MAKER AND ROUTE IN BACK OF MILLWORK AS SHOWN.
 - INSTALL CONCENTRIC ROOF-VENT KIT FURNISHED WITH THE WATER HEATER INDICATED. DO NOT INSTALL WITHIN 10'-0" FROM ALL AIR INTAKES INTO THE BUILDING.
 - EQUIPMENT FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

AGENCY REVIEW SET

PROJECT 21403.000	DATE 03-31-23
DRAWN KRA	CHECKED KRA
REVISED	



WASTE & VENT PLAN LEVEL 2 - AREA B

SHEET

P22B

ORIGINAL SHEET SIZE
36" x 48"

PROFESSIONAL ENGINEER
10955
STATE OF IDAHO
KENT R. ANDERSON

Digitally signed by Kent Anderson
Date: 2023.04.19 10:48:42 -0600

ORIGINAL DOCUMENTS ARE HELD AT
ENGINEER'S OFFICE, 200 BROAD STREET,
BOISE, ID 83702

KENT R. ANDERSON, P.E.
200 BROAD STREET
BOISE, IDAHO 83702
PHONE: (208) 343-4656 FAX: (208) 343-1658
EMAIL: KANDERSON@CSHOA.COM

THELON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION
427 Shoshone St N Twin Falls, ID

CSHOA

AGENCY REVIEW SET

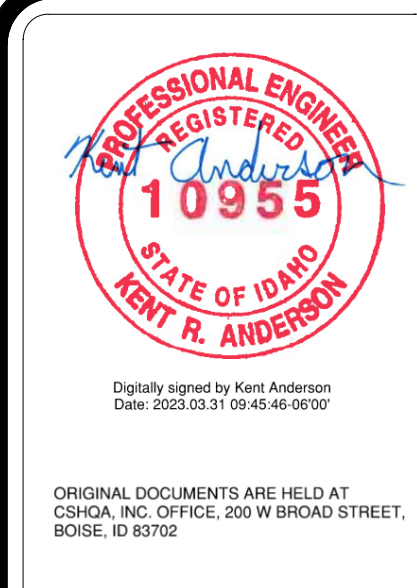
PROJECT 21403.000	DATE 03-31-23
DRAWN KRA	CHECKED KRA
REVISED	

WASTE & VENT PLAN LEVEL 2 - AREA B

SHEET

P22B

ORIGINAL SHEET SIZE
36" x 48"



KENT R. ANDERSON, P.E.
200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-343-4656 FAX: 208-343-1658
WWW.CSHQA.COM
I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES. I AM PROVIDING PROFESSIONAL ENGINEERING SERVICES. I AM NOT PROVIDING ARCHITECTURAL SERVICES. I AM NOT PROVIDING LANDSCAPE ARCHITECTURE SERVICES. I AM NOT PROVIDING PLUMBING SERVICES. I AM NOT PROVIDING ELECTRICAL SERVICES. I AM NOT PROVIDING MECHANICAL SERVICES. I AM NOT PROVIDING STRUCTURAL SERVICES. I AM NOT PROVIDING CIVIL SERVICES. I AM NOT PROVIDING ENVIRONMENTAL SERVICES. I AM NOT PROVIDING GEOTECHNICAL SERVICES. I AM NOT PROVIDING SURVEYING SERVICES. I AM NOT PROVIDING ASBESTOS ABATEMENT SERVICES. I AM NOT PROVIDING LEAD ABATEMENT SERVICES. I AM NOT PROVIDING RADON MITIGATION SERVICES. I AM NOT PROVIDING MOLD REMEDIATION SERVICES. I AM NOT PROVIDING REMEDIATION SERVICES. I AM NOT PROVIDING DEMOLITION SERVICES. I AM NOT PROVIDING CONSTRUCTION SERVICES. I AM NOT PROVIDING INSPECTION SERVICES. I AM NOT PROVIDING TESTING SERVICES. I AM NOT PROVIDING CONSULTING SERVICES. I AM NOT PROVIDING DESIGN SERVICES. I AM NOT PROVIDING PROGRAM MANAGEMENT SERVICES. I AM NOT PROVIDING PROJECT MANAGEMENT SERVICES. I AM NOT PROVIDING GENERAL CONTRACTOR SERVICES. I AM NOT PROVIDING GENERAL BUILDING SERVICES. I AM NOT PROVIDING INDUSTRIAL BUILDING SERVICES. I AM NOT PROVIDING MARINE BUILDING SERVICES. I AM NOT PROVIDING POWER BUILDING SERVICES. I AM NOT PROVIDING PROCESS BUILDING SERVICES. I AM NOT PROVIDING PETROLEUM BUILDING SERVICES. I AM NOT PROVIDING Pulp AND PAPER BUILDING SERVICES. I AM NOT PROVIDING RECREATION BUILDING SERVICES. I AM NOT PROVIDING RETAIL BUILDING SERVICES. I AM NOT PROVIDING SCHOOL BUILDING SERVICES. I AM NOT PROVIDING STORAGE BUILDING SERVICES. I AM NOT PROVIDING TRANSPORTATION BUILDING SERVICES. I AM NOT PROVIDING UTILITIES BUILDING SERVICES. I AM NOT PROVIDING WAREHOUSE BUILDING SERVICES. I AM NOT PROVIDING WATER TREATMENT BUILDING SERVICES. I AM NOT PROVIDING WASTE TREATMENT BUILDING SERVICES. I AM NOT PROVIDING OTHER BUILDING SERVICES.

THERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION
427 Shoshone St N Twin Falls, ID
200 BROAD STREET
BOISE, ID 83702
PHONE: 208-343-4656 FAX: 208-343-1658
WWW.CSHQA.COM

AGENCY REVIEW SET

PROJECT	DATE
21403.000	03-31-23

DRAWN	CHECKED
KRA	KRA

REVISED

SHEET TITLE
WATER & GAS PLAN BASEMENT

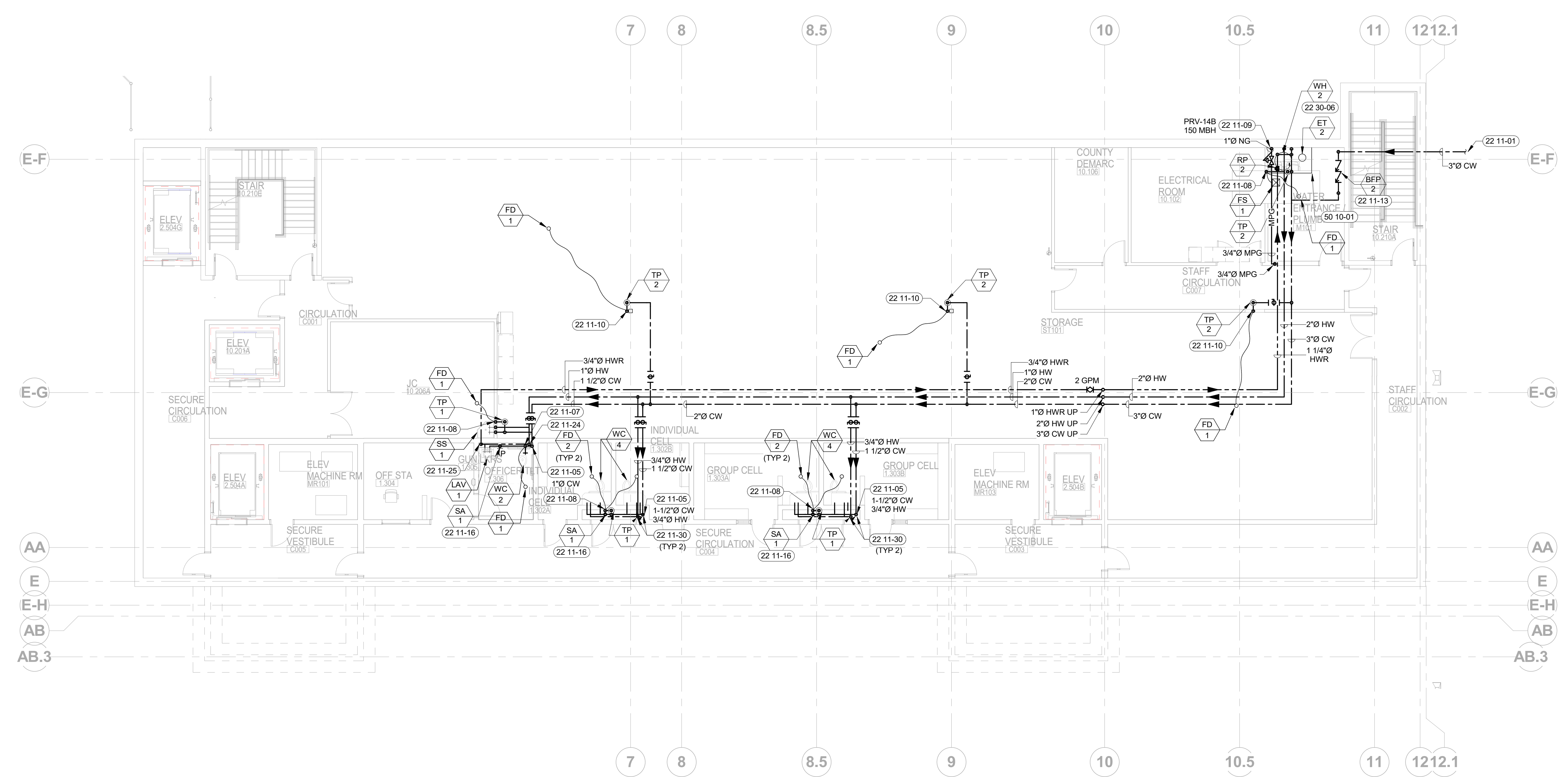
SHEET
P30

ORIGINAL SHEET SIZE
36" x 48"

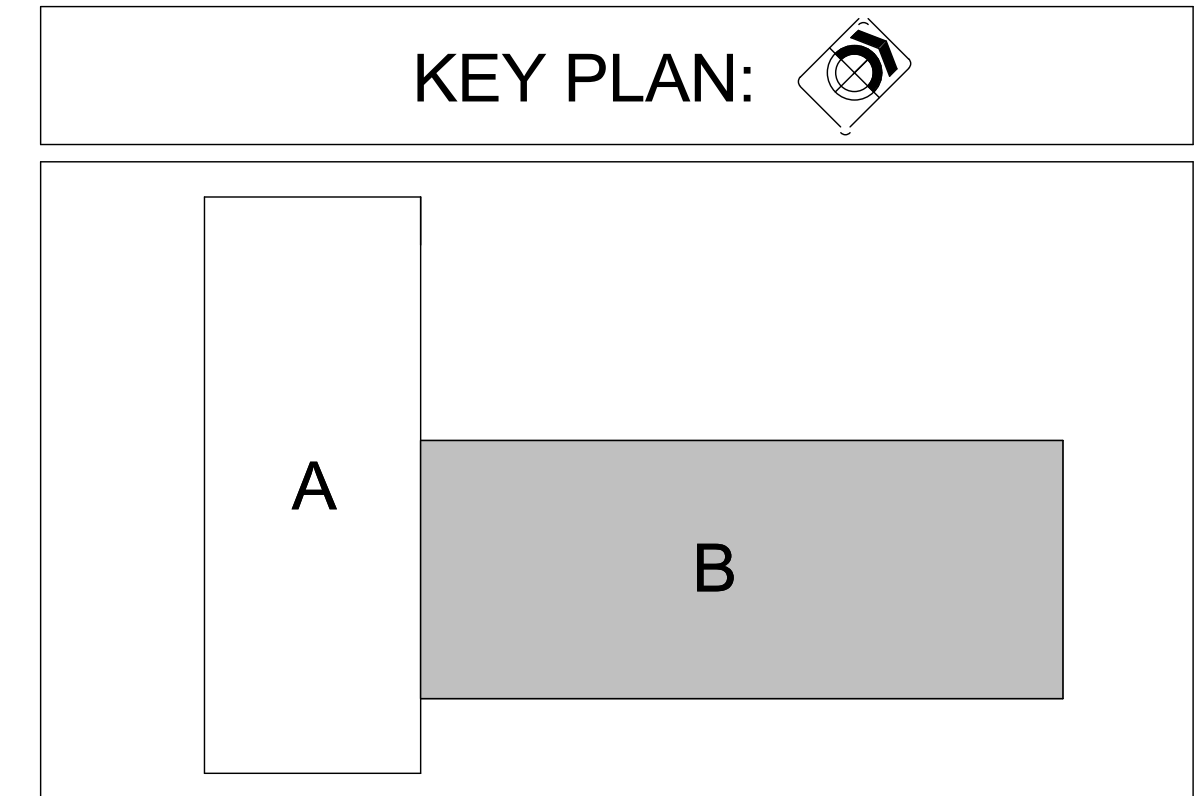
LEGEND:	
(RE: PLUMBING COVER SHEET FOR ADDITIONAL INFORMATION)	
---	COLD WATER
---	SOFT COLD WATER
---	REVERSE OSMOSIS WATER
---	DOMESTIC HOT WATER
---	DOMESTIC HOT WATER RETURN
---	HOT WATER WITH TEMP. MAINTENANCE CABLE
---	MEDIUM PRESSURE GAS
---	NATURAL GAS
---	PIPE ELBOW UP
---	BALL VALVE
---	PRESSURE REDUCING VALVE
---	SHUT-OFF VALVE
---	FIXTURE OR EQUIPMENT CALLOUT (RE: FIXTURE AND EQUIPMENT SCHEDULES)
---	PIPE ELBOW DOWN
---	PIPE TEE BRANCH UP (W/ ELBOW)
---	PIPE TEE BRANCH DOWN (W/ ELBOW)
---	FLOW DIRECTION INDICATOR

- GENERAL NOTES:**
- A. CONTRACTOR TO INSTALL SHUT OFF VALVES AT EACH BRANCH LINE TAKE-OFF ALL PLUMBING FIXTURES, APPLIANCES, AND BRANCH LINES SHALL HAVE THEIR OWN INDEPENDENT SHUT-OFF VALVES INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION BRANCHES SHALL COME OFF BOTTOM OR SIDE OF MAIN TO PREVENT AIR ENTRAPMENT.
 - B. PROVIDE MIXING VALVE ON ALL HAND SINKS, LAVATORIES AND BREAK ROOM COUNTERTOP SINKS LOCATED TO BE EASILY ACCESSIBLE. REFER TO SCHEDULE AND DETAILS FOR MAKE, MODEL AND TEMPERATURE SETTING.
 - C. PROVIDE FIXTURE BRANCH PIPING, PRESSURE REGULATORS AND BACKFLOW PREVENTION TO ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION.
 - D. INSTALL CHECK VALVES IN HOT AND COLD WATER SUPPLY LINES SERVING ALL 1, 2 AND 3-COMPARTMENT SINKS AND MOP SINKS.
 - E. ROUTE ALL WATER OR GAS PIPING OVERHEAD AS HIGH AS POSSIBLE. RE: PIPING SUPPORT DETAILS. COORDINATE ROUTING WITH STRUCTURE AND DUCTWORK LAYOUT.
 - F. INSTALL ACOUSTICAL CAULKING TO ALL PIPES PENETRATING ACOUSTICAL WALLS. SEE ARCHITECT'S DRAWINGS FOR ALL ACOUSTICAL WALLS.
 - G. ALL WATER PIPING SHARED BY BACK TO BACK WATER CLOSETS AND LAVATORIES ARE 1-1/4" AND 3/4" RESPECTIVELY UNLESS OTHERWISE NOTED.
 - H. RE: PLUMBING DETAIL SHEET FOR ALL DETAILS THAT ARE NOT REFERENCED.

- SHEET NOTES:**
- 22 11-01 EXTEND DOMESTIC WATER, FIRE PROTECTION WATER, AND NATURAL GAS 3/4" OUT FROM EDGE OF BUILDING AND CONNECT TO SERVICE MAIN. RE: CIVIL DRAWINGS FOR CONTINUATION.
 - 22 11-05 ROUTE WATER PIPING DOWN IN WALL TO FIXTURES AND EQUIPMENT. REFER TO FIXTURE SCHEDULE FOR CONNECTION SIZES AND REQUIREMENTS. SIZE AS INDICATED.
 - 22 11-07 ROUTE 1/2" REX TUBING INDEPENDENTLY FROM FLUSH VALVE TRAP PRIMER DIVERTER BELOW FLOOR TO FLOOR DRAIN TRAP. REFER TO WASTE AND VENT DRAWING FOR FLOOR DRAIN LOCATION.
 - 22 11-08 ROUTE 1/2" REX TUBING INDEPENDENTLY FROM TRAP PRIMER MANIFOLD DOWN IN WALL TO BELOW FLOOR AND CONNECT TO FLOOR DRAIN TRAPS. REFER TO WASTE AND VENT DRAWING FOR FLOOR DRAIN LOCATIONS.
 - 22 11-09 CONNECT NATURAL GAS PIPING TO EQUIPMENT. PROVIDE CALISTED SHUT-OFF VALVE, FLEXIBLE APPLIANCE CONNECTOR, 3" MIN DIET LEG, AND UNION. SIZE AS INDICATED. RE: GAS TO UNIT CONNECTION DETAIL.
 - 22 11-10 ROUTE 1/2" REX TUBING INDEPENDENTLY FROM TRAP PRIMER MANIFOLD DOWN AGAINST COLUMN TO BELOW FLOOR AND CONNECT TO FLOOR DRAIN TRAPS. REFER TO WASTE AND VENT DRAWING FOR FLOOR DRAIN LOCATIONS.
 - 22 11-13 INSTALL BACKFLOW PREVENTER ON WALL WITH ACCESS FOR MAINTENANCE AND TESTING. RE: BACKFLOW PREVENTER DETAIL.
 - 22 11-16 INSTALL A SHOCK ARRESTER ON THE CW PIPE IN WALL. FURNISH AND INSTALL A 12"x12" ACCESS PANEL. COORDINATE THE EXACT ACCESS PANEL LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
 - 22 11-24 ROUTE HW MAIN DOWN IN WALL TO LAVATORY ROUGH-IN HEIGHT, OFFSET HORIZONTALLY, AND ROUTE IN WALL TO FIXTURES. TERMINATE EACH LAVATORY HW SUPPLY WITHIN 2'-0" OF THE FIXTURE SUPPLY PIPE.
 - 22 11-25 ROUTE HW MAIN UP IN WALL TO ABOVE CEILING.
 - 22 11-30 INSTALL A SHUT-OFF BALL VALVE AT 5'-0" AFF IN AN ACCESSIBLE LOCATION IN THE VERTICAL PORTION OF THE MAIN COLD AND HOT WATER PIPING MAINS SERVING THE INDIVIDUAL CELL WATER CLOSET COMB FIXTURES.
 - 22 30-06 RE: P71-20 FOR GAS FIRED WATER HEATER PIPING DETAIL.
 - 50 10-01 4" THICK HOUSEKEEPING PAD. COORDINATE EXACT PAD DIMENSIONS WITH EQUIPMENT MOUNTING REQUIREMENTS PRIOR TO CONSTRUCTION. RE: ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.



1 WATER & GAS PLAN - BASEMENT
1/8" = 1'-0"





1 WATER & GAS PLAN - LEVEL 1 AREA A
1/8" = 1'-0"

LEGEND:

- (RE: PLUMBING COVER SHEET FOR ADDITIONAL INFORMATION)
- COLD WATER
 - SOFT COLD WATER
 - RO --- REVERSE OSMOSIS WATER
 - DOMESTIC HOT WATER
 - DOMESTIC HOT WATER RETURN
 - HOT WATER WITH TEMP. MAINTENANCE CABLE
 - MFG --- MEDIUM PRESSURE GAS
 - NG --- NATURAL GAS
 - PIPE ELBOW UP
 - BALL VALVE
 - PRESSURE REDUCING VALVE
 - SHUT-OFF VALVE
 - FIXTURE OR EQUIPMENT CALLOUT (RE: FIXTURE AND EQUIPMENT SCHEDULES)
 - PIPE ELBOW DOWN
 - PIPE TEE BRANCH UP (W/ ELBOW)
 - PIPE TEE BRANCH DOWN (W/ ELBOW)
 - FLOW DIRECTION INDICATOR

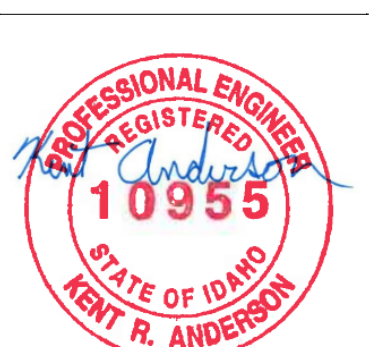
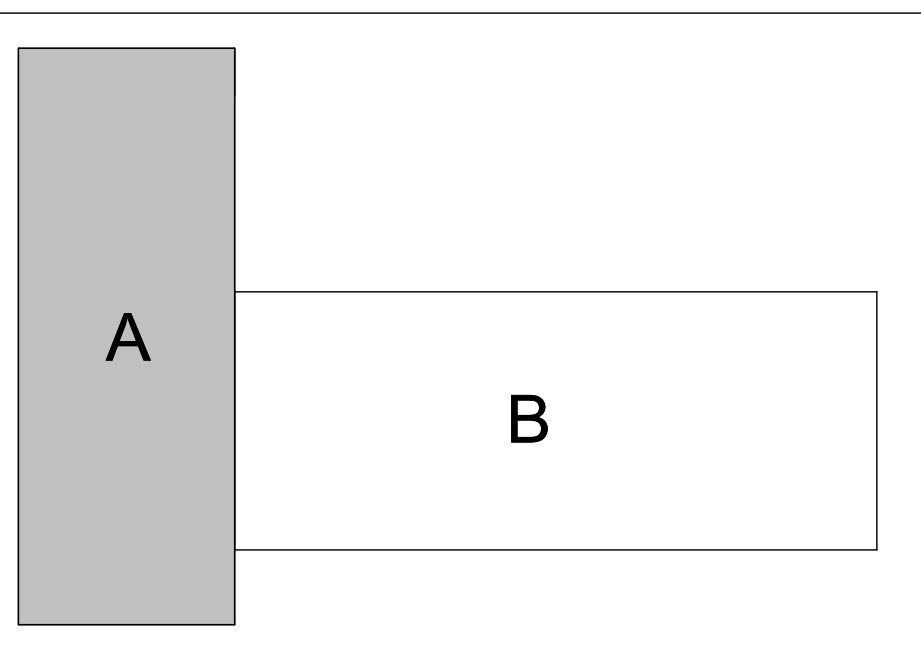
GENERAL NOTES:

- A. CONTRACTOR TO INSTALL SHUT OFF VALVES AT EACH BRANCH LINE TAKE-OFF ALL PLUMBING FIXTURES, APPLIANCES, AND BRANCH LINES SHALL HAVE THEIR OWN INDEPENDENT SHUT-OFF VALVES INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION BRANCHES SHALL COME OFF BOTTOM OR SIDE OF MAIN TO PREVENT AIR ENTRAPMENT.
- B. PROVIDE MIXING VALVE ON ALL HAND SINKS, LAVATORIES AND BREAK ROOM COUNTERTOP SINKS LOCATED TO BE EASILY ACCESSIBLE. REFER TO SCHEDULE AND DETAILS FOR MAKE, MODEL AND TEMPERATURE SETTING.
- C. PROVIDE FIXTURE BRANCH PIPING, PRESSURE REGULATORS AND BACKFLOW PREVENTION TO ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR PIPING LAYOUT.
- D. INSTALL CHECK VALVES IN HOT AND COLD WATER SUPPLY LINES SERVING ALL 1, 2 AND 3-COMPARTMENT SINKS AND MOP SINKS.
- E. ROUTE ALL WATER OR GAS PIPING OVERHEAD AS HIGH AS POSSIBLE. RE: PIPING SUPPORT DETAILS. COORDINATE ROUTING WITH STRUCTURE AND DUCTWORK LAYOUT.
- F. INSTALL ACOUSTICAL CALULKING TO ALL PIPES PENETRATING ACOUSTICAL WALLS. SEE ARCHITECT'S DRAWINGS FOR ALL ACOUSTICAL WALLS.
- G. ALL WATER PIPING SHARED BY BACK TO BACK WATER CLOSETS AND LAVATORIES ARE 1-1/4" AND 3/4" RESPECTIVELY UNLESS OTHERWISE NOTED.
- H. RE: PLUMBING DETAIL SHEET FOR ALL DETAILS THAT ARE NOT REFERENCED.

SHEET NOTES:

- 22 11-01 EXTEND DOMESTIC WATER, FIRE PROTECTION WATER, AND NATURAL GAS 3'-0" OUT FROM EDGE OF BUILDING AND CONNECT TO SERVICE MAIN. RE: CIVIL DRAWINGS FOR CONTINUATION
- 22 11-02 PROVIDE FOR AND COORDINATE A NEW GAS SERVICE FOR THIS PROJECT WITH THE LOCAL NATURAL GAS SERVICE PROVIDER. PROVIDE FOR ALL FEES, PRIMARY REGULATOR AT METER, AND SLEEVE PIPING AT EXTERIOR WALL. DELIVERY PRESSURE = 7" WC, TOTAL CONNECTED LOAD 784 MBH.
- 22 11-05 ROUTE WATER PIPING DOWN IN WALL TO FIXTURES AND EQUIPMENT. REFER TO FIXTURE SCHEDULE FOR CONNECTION SIZES AND REQUIREMENTS. SIZE AS INDICATED.
- 22 11-07 ROUTE 1/2" PEX TUBING INDEPENDENTLY FROM FLUSH VALVE TRAP PRIMER DIVERTER BELOW FLOOR TO FLOOR DRAIN TRAP. REFER TO WASTE AND VENT DRAWING FOR FLOOR DRAIN LOCATION.
- 22 11-08 ROUTE 1/2" PEX TUBING INDEPENDENTLY FROM TRAP PRIMER MANIFOLD DOWN IN WALL TO BELOW FLOOR AND CONNECT TO FLOOR DRAIN TRAP. REFER TO WASTE AND VENT DRAWING FOR FLOOR DRAIN LOCATIONS.
- 22 11-09 CONNECT NATURAL GAS PIPING TO EQUIPMENT. PROVIDE GAS-TESTED SHUT-OFF VALVE, FLEXIBLE APPLIANCE CONNECTOR, 2" MIN DIET LEG, AND UNION. SIZE AS INDICATED. RE: GAS TO UNIT CONNECTION DETAIL.
- 22 11-12 INSTALL NO. PRESSURE REGULATOR AS SHOWN. INLET PRESSURE = 2 PSI (NOMINAL). DISCHARGE PRESSURE = 7" WC. UNLESS OTHERWISE INDICATED. SIZE REGULATOR FOR THE CONNECTED LOAD SHOWN. REDUCE PIPE SIZE AS NECESSARY. INSTALL PRESSURE REGULATOR VENT OUTLET A MINIMUM OF 12'-0" FROM ALL OSA INTAKES. RE: GAS PRESSURE REGULATOR AND CONNECTION DETAILS.
- 22 11-13 INSTALL BACKFLOW PREVENTER ON WALL WITH ACCESS FOR MAINTENANCE AND TESTING. RE: BACKFLOW PREVENTER DETAIL.
- 22 11-16 INSTALL SHOCK ARRESTER ON THE CW PIPE IN WALL. FURNISH AND INSTALL A 12"x12" ACCESS PANEL. COORDINATE THE EXACT ACCESS PANEL LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
- 22 11-18 ROUTE CW UP THROUGH ROOF AND CONNECT TO ROOF MOUNTED HOSE BIBB. SIZE AND ROUTING DIRECTION AS INDICATED.
- 22 11-24 ROUTE HW MAIN DOWN IN WALL TO LAVATORY ROUGH-IN HEIGHT, OFFSET HORIZONTALLY AND ROUTE IN WALL TO FIXTURES. TERMINATE EACH LAVATORY HW SUPPLY WITHIN 2'-0" OF THE FIXTURE SUPPLY PIPE.
- 22 11-25 ROUTE HW MAIN UP IN WALL TO ABOVE CEILING.
- 22 11-26 DESIGNATED FIRE PROTECTION WATER SERVICE AREA. DO NOT INSTALL ANYTHING IN THIS AREA.
- 22 30-05 RE: P71-19 FOR GAS FIRED WATER HEATER PIPING DETAIL.
- 22 40-01 INSTALL FIXTURE ON WALL AT 18" AFF.
- 50 10-01 4" THICK HOUSING PIPING PAD. COORDINATE EXACT PAD DIMENSIONS WITH EQUIPMENT MOUNTING REQUIREMENTS PRIOR TO CONSTRUCTION. RE: ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

KEY PLAN:



KENT R. ANDERSON, P.E.
200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-343-4656 FAX: 208-343-1658
WWW.CSHQA.COM
I.D. REG. NO. 10958
I.D. REG. EXPIRES 12/31/2025
I.D. REG. RENEWAL FEE \$100.00
I.D. REG. RENEWAL DATE 12/31/2025
I.D. REG. RENEWAL METHOD AUTOMATIC
I.D. REG. RENEWAL STATUS ACTIVE
I.D. REG. RENEWAL TYPE STANDARD
I.D. REG. RENEWAL REASON NONE
I.D. REG. RENEWAL COMMENTS NONE
I.D. REG. RENEWAL ACTION NONE
I.D. REG. RENEWAL DATE 12/31/2025
I.D. REG. RENEWAL METHOD AUTOMATIC
I.D. REG. RENEWAL STATUS ACTIVE
I.D. REG. RENEWAL TYPE STANDARD
I.D. REG. RENEWAL REASON NONE
I.D. REG. RENEWAL COMMENTS NONE
I.D. REG. RENEWAL ACTION NONE

Theron W. Ward Judicial Building
Remodel & Expansion
427 Shoshone St N Twin Falls, ID
200 BROAD STREET
BOISE, ID 83702
PHONE: 208-343-4656 FAX: 208-343-1658
WWW.CSHQA.COM

Theron W. Ward Judicial Building
Remodel & Expansion
CSHQA

AGENCY REVIEW SET

PROJECT	DATE
21403.000	03-31-23
DRAWN	CHECKED
KRA	KRA

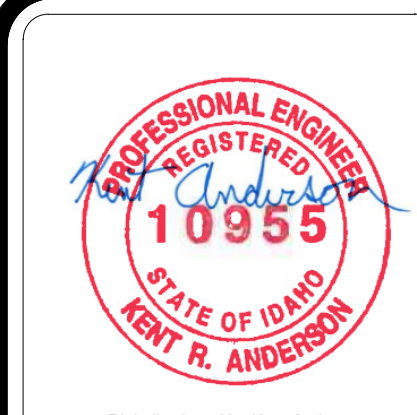
REVISED

WATER & GAS PLAN
LEVEL 1 - AREA A

SHEET

P31A

ORIGINAL SHEET SIZE
36" x 48"



ORIGINAL DOCUMENTS ARE HELD AT
COUNTY OF COLUMBIA, OHIO
BOISE, IDAHO

KENT R. ANDERSON, P.E.
200 BROAD STREET
BOISE, IDAHO 83702
PHONE: (208) 343-4656 FAX: (208) 343-1658
WWW.CSHQA.COM

**THERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION**
427 Shoshone St N Twin Falls, ID

AGENCY REVIEW SET

PROJECT	DATE
21403.000	03-31-23

DRAWN	CHECKED
KRA	KRA

REVISED

AGENCY REVIEW SET

PROJECT	DATE
21403.000	03-31-23

DRAWN	CHECKED
KRA	KRA

REVISED

REVISIONS

**WATER & GAS PLAN
LEVEL 1 -
AREA B**

SHEET

P31B

ORIGINAL SHEET SIZE
36" x 48"

LEGEND:

- (RE PLUMBING COVER SHEET FOR ADDITIONAL INFORMATION)
- COLD WATER
 - SOFT COLD WATER
 - REVERSE DOMESTIC WATER
 - DOMESTIC HOT WATER
 - DOMESTIC HOT WATER RETURN
 - HOT WATER WITH TEMP. MAINTENANCE CABLE
 - MEDIUM PRESSURE GAS
 - NATURAL GAS
 - PIPE ELBOW UP
 - BALL VALVE
 - PRESSURE REDUCING VALVE
 - SHUT-OFF VALVE
 - FIXTURE OR EQUIPMENT CALLOUT (RE FIXTURE AND EQUIPMENT SCHEDULES)
 - PIPE ELBOW DOWN
 - PIPE TEE BRANCH UP (W/ ELBOW)
 - PIPE TEE BRANCH DOWN (W/ ELBOW)
 - FLOW DIRECTION INDICATOR

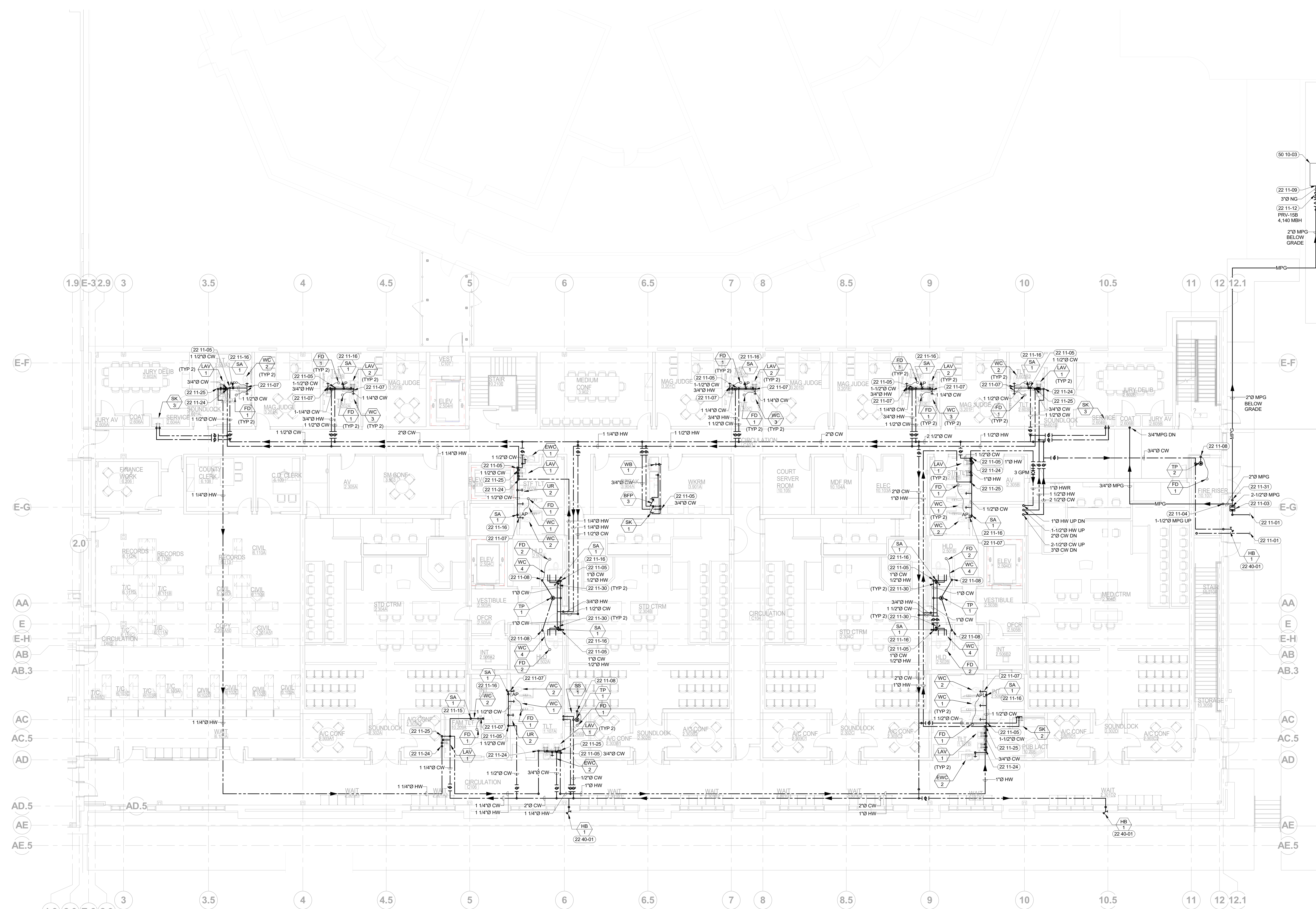
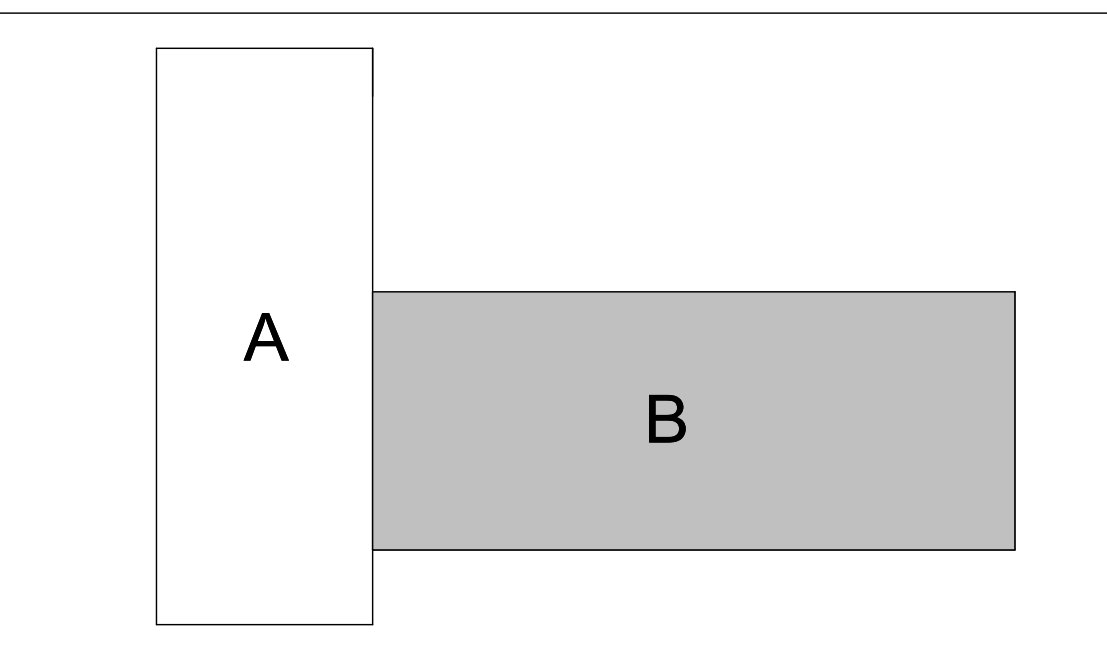
GENERAL NOTES:

- CONTRACTOR TO INSTALL SHUT OFF VALVES AT EACH BRANCH LINE TAKE-OFF ALL PLUMBING FIXTURES, APPLIANCES, AND BRANCH LINES SHALL HAVE THEIR OWN INDEPENDENT SHUT-OFF VALVES INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION BRANCHES SHALL COME OFF BOTTOM OR SIDE OF MAIN TO PREVENT AIR ENTRAPMENT.
- PROVIDE MIXING VALVE ON ALL HAND SINKS, LAVATORIES AND BREAK ROOM COUNTER TOP SINKS LOCATED TO BE EASILY ACCESSIBLE. REFER TO SCHEDULE AND DETAILS FOR MAKE, MODEL AND TEMPERATURE SETTING.
- PROVIDE FIXTURE BRANCH PIPING, PRESSURE REGULATORS AND BACKFLOW PREVENTION TO ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION.
- INSTALL CHECK VALVES IN HOT AND COLD WATER SUPPLY LINES SERVING ALL 1, 2 AND 3-COMPARTMENT SINKS AND MOP SINKS.
- ROUTE ALL WATER OR GAS PIPING OVERHEAD AS HIGH AS POSSIBLE. RE: PIPING SUPPORT DETAILS. COORDINATE ROUTING WITH STRUCTURE AND DUCTWORK LAYOUT.
- INSTALL ACOUSTICAL CAULKING TO ALL PIPES PENETRATING ACOUSTICAL WALLS. SEE ARCHITECT'S DRAWINGS FOR ALL ACOUSTICAL WALLS.
- ALL WATER PIPING SHARED BY BACK TO BACK WATER CLOSETS AND LAVATORIES ARE 1-1/4"Ø AND 3/4"Ø RESPECTIVELY UNLESS OTHERWISE NOTED.
- RE PLUMBING DETAIL SHEET FOR ALL DETAILS THAT ARE NOT REFERENCED.

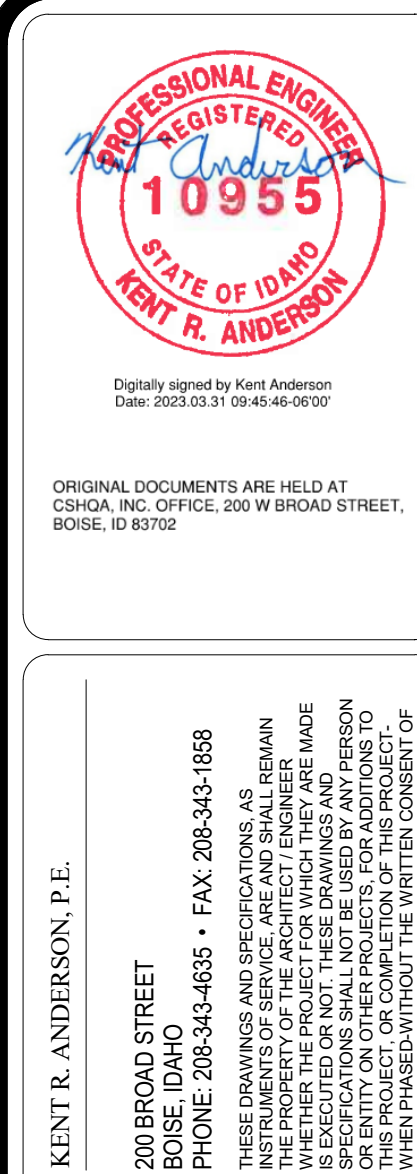
SHEET NOTES:

- EXTEND DOMESTIC WATER, FIRE PROTECTION WATER, AND NATURAL GAS 8" OUT FROM EDGE OF BUILDING AND CONNECT TO SERVICE MAIN. RE: CIVIL DRAWINGS FOR CONTINUATION.
- PROVIDE FOR AND COORDINATE A NEW GAS SERVICE FOR THIS PROJECT WITH THE LOCAL NATURAL GAS SERVICE PROVIDER. PROVIDE FOR ALL FEES, PRIMARY REGULATOR AT METER, AND SLEEVE PIPING AT EXTERIOR WALL. DELIVERY PRESSURE 7" IN WC. TOTAL CONNECTED LOAD 6,303 MBH.
- ROUTE MPG PIPING UP TO SECOND FLOOR. SIZE AS INDICATED.
- ROUTE WATER PIPING DOWN IN WALL TO FIXTURES AND EQUIPMENT. REFER TO FIXTURE SCHEDULE FOR CONNECTION SIZES AND REQUIREMENTS. SIZE AS INDICATED.
- ROUTE 1/2"Ø PEX TUBING INDEPENDENTLY FROM FLUSH VALVE TRAP PRIMER DIVERTER BELOW FLOOR TO FLOOR DRAIN TRAP. REFER TO WASTE AND VENT DRAWING FOR FLOOR DRAIN LOCATION.
- ROUTE 1/2"Ø PEX TUBING INDEPENDENTLY FROM TRAP PRIMER MANIFOLD DOWN IN WALL TO BELOW FLOOR AND CONNECT TO FLOOR DRAIN TRAP. REFER TO WASTE AND VENT DRAWING FOR FLOOR DRAIN LOCATION.
- CONNECT NATURAL GAS PIPING TO EQUIPMENT. PROVIDE GAS LISTED SHUT-OFF VALVE, FLEXIBLE APPLIANCE CONNECTOR, 3" MIN DIRT LEG, AND UNION. SIZE AS INDICATED. RE: GAS TO UNIT CONNECTION DETAIL.
- INSTALL NG PRESSURE REGULATOR AS SHOWN. INLET PRESSURE = 2 PSI (MINIMAL). DISCHARGE PRESSURE = 7" WC. UNLESS OTHERWISE INDICATED. SIZE REGULATOR FOR THE CONNECTED LOAD. SHOWN. REDUCE PIPE SIZE AS NECESSARY. INSTALL PRESSURE REGULATOR VENT OUTLET A MINIMUM OF 12"Ø FROM ALL GSA INTAKES. RE: GAS PRESSURE REGULATOR AND CONNECTION DETAILS.
- INSTALL SHOCK ARRESTER ON THE CW PIPE IN CEILING SPACE. FURNISH AND INSTALL AN 8"Ø ACCESS PANEL. COORDINATE THE EXACT ACCESS PANEL LOCATION WITH ARCHITECTURAL. REFLECTED CEILING PLANS PRIOR TO CONSTRUCTION.
- INSTALL SHOCK ARRESTER ON THE CW PIPE IN WALL. FURNISH AND INSTALL A 12"Ø ACCESS PANEL. COORDINATE THE EXACT ACCESS PANEL LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
- ROUTE HW MAIN DOWN IN WALL TO LAVATORY ROUGH-IN HEIGHT. OFFSET HORIZONTALLY, AND ROUTE IN WALL TO FIXTURES. TERMINATE EACH LAVATORY HW SUPPLY WITHIN 2"Ø OF THE FIXTURE SUPPLY PIPE.
- ROUTE HW MAIN UP IN WALL TO ABOVE CEILING. DESIGNATED FIRE PROTECTION WATER SERVICE AREA. DO NOT INSTALL ANYTHING IN THIS AREA.
- INSTALL A SHUT-OFF BALL VALVE AT 1'Ø AFF IN AN ACCESSIBLE LOCATION IN THE VERTICAL PORTION OF THE MAIN COLD AND HOT WATER PIPING MAINS SERVING THE INDIVIDUAL CELL WATER CLOSET COMBI FIXTURES.
- TRANSITION TO PLASTIC PIPE AND ROUTE 2"Ø MPG PIPING DOWN BELOW GRADE. THE BELOW GRADE PIPING SHALL BE ONE CONTINUOUS LENGTH WITH NO JOINTS OR CONNECTIONS AND BE COMPLIANT WITH ASTM D2513 PLASTIC PIPE RATED FOR DIRECT BURIAL. INSTALL THE GAS PIPING BELOW GRADE WITH A MINIMUM OF 18" OF COVER.
- INSTALL FIXTURE ON WALL AT 1'Ø AFF.
- STAND-BY GENERATOR FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

KEY PLAN:



WATER & GAS PLAN - LEVEL 1 AREA B
1/8" = 1'-0"



KENT R. ANDERSON, P.E.
 200 BROAD STREET
 BOISE, IDAHO 83702
 PHONE: (208) 343-4656 FAX: (208) 343-1658
 WWW.CSHQA.COM
 I am a duly licensed Professional Engineer in the State of Idaho. I am not responsible for the design or construction of any project unless I have personally prepared, supervised, or sealed the design. I am not responsible for the design or construction of any project unless I have personally prepared, supervised, or sealed the design. I am not responsible for the design or construction of any project unless I have personally prepared, supervised, or sealed the design.

Theron W. Ward Judicial Building
Remodel & Expansion
 427 Shoshone St N Twin Falls, ID
 (208) 343-4656
CSHOA

AGENCY REVIEW SET

PROJECT	DATE
21403.000	03-31-23
DRAWN	CHECKED
KRA	KRA
REVISED	

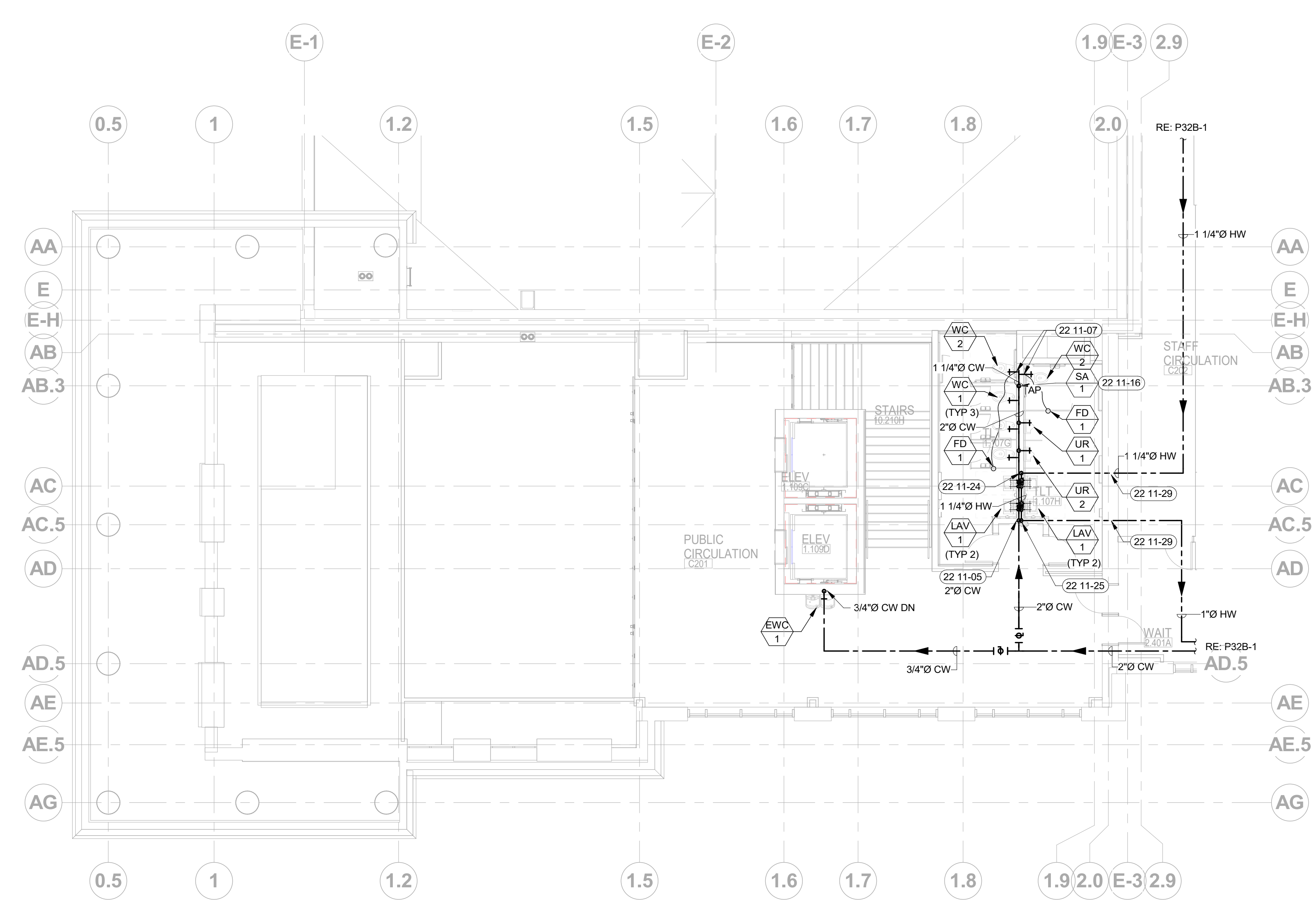
SHEET: **WATER & GAS PLAN LEVEL 2 - AREA A**
 SHEET: **P32A**
 ORIGINAL SHEET SIZE 36" x 48"

LEGEND:
(RE: PLUMBING COVER SHEET FOR ADDITIONAL INFORMATION)

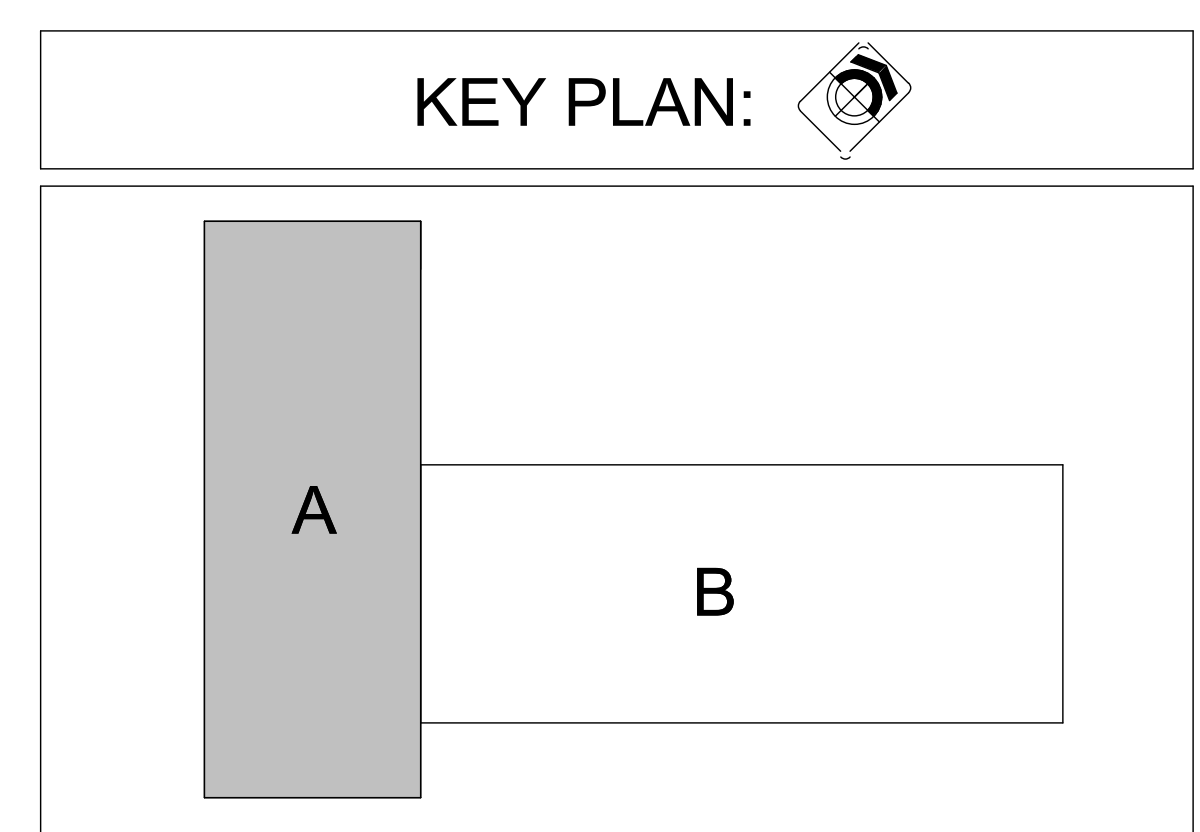
---	COLD WATER	⊕	BALL VALVE
---	SOFT COLD WATER	⊕	PRESSURE REDUCING VALVE
---	REVERSE OSMOSIS WATER	⊕	SHUT-OFF VALVE
---	DOMESTIC HOT WATER	⊕	FIXTURE OR EQUIPMENT CALLOUT (RE: FIXTURE AND EQUIPMENT SCHEDULES)
---	DOMESTIC HOT WATER RETURN	⊕	PIPE ELBOW DOWN
---	HOT WATER WITH TEMP. MAINTENANCE CABLE	⊕	PIPE TEE BRANCH UP (W/ ELBOW)
---	MPC - MEDIUM PRESSURE GAS	⊕	PIPE TEE BRANCH DOWN (W/ ELBOW)
---	NATURAL GAS	⊕	FLOW DIRECTION INDICATOR
---	PIPE ELBOW UP	⊕	

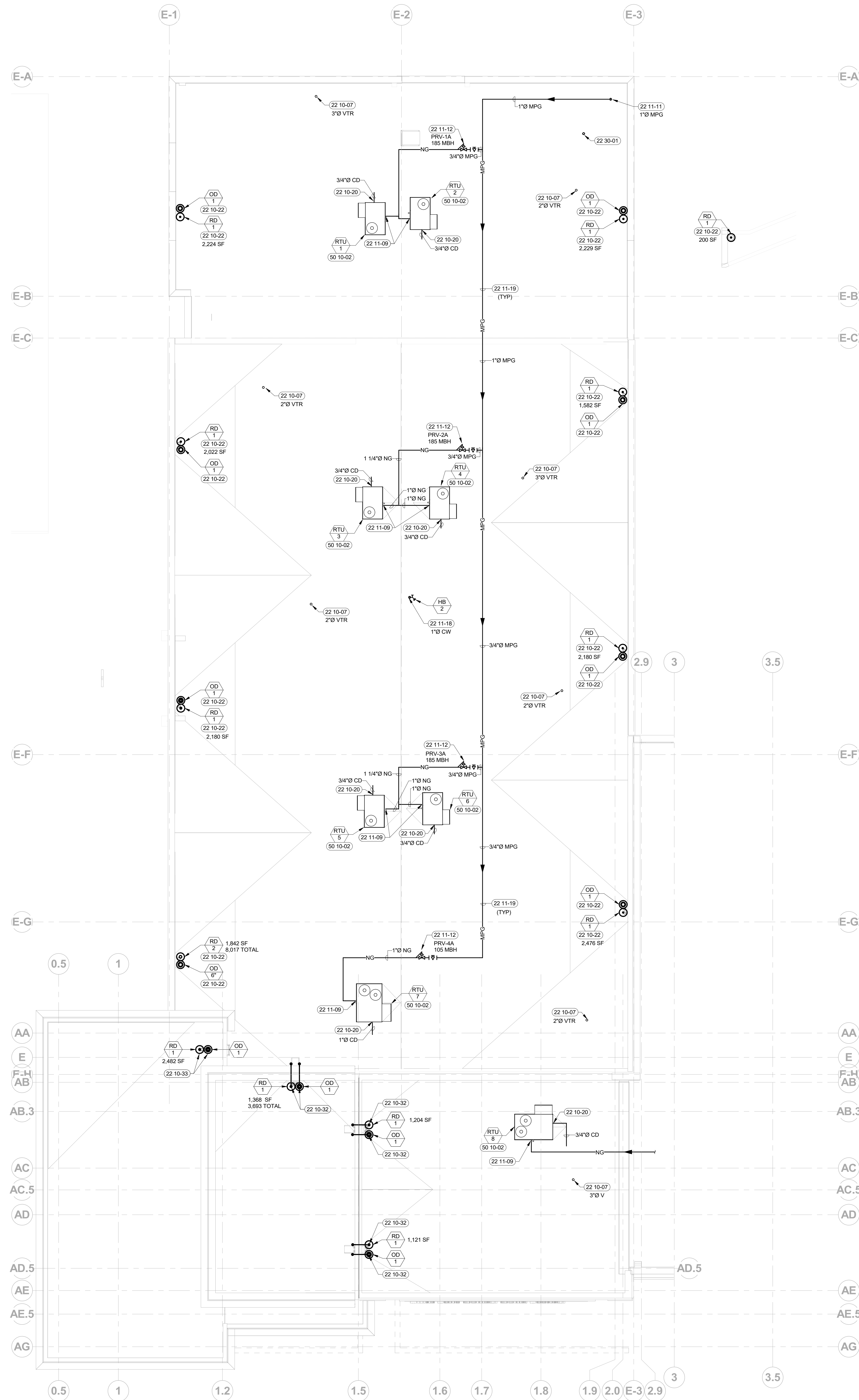
- GENERAL NOTES:**
- CONTRACTOR TO INSTALL SHUT OFF VALVES AT EACH BRANCH LINE TAKE-OFF ALL PLUMBING FIXTURES, APPLIANCES, AND BRANCH LINES SHALL HAVE THEIR OWN INDEPENDENT SHUT-OFF VALVES INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION BRANCHES SHALL COME OFF BOTTOM OR SIDE OF MAIN TO PREVENT AIR ENTRAPMENT.
 - PROVIDE MIXING VALVE ON ALL HAND SINKS, LAVATORIES AND BREAK ROOM COUNTERTOP SINKS LOCATED TO BE EASILY ACCESSIBLE. REFER TO SCHEDULE AND DETAILS FOR MAKE, MODEL AND TEMPERATURE SETTING.
 - PROVIDE FIXTURE BRANCH PIPING, PRESSURE REGULATORS AND BACKFLOW PREVENTION TO ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION.
 - INSTALL CHECK VALVES IN HOT AND COLD WATER SUPPLY LINES SERVING ALL 1, 2 AND 3-COMPARTMENT SINKS AND MOP SINKS.
 - ROUTE ALL WATER OR GAS PIPING OVERHEAD AS HIGH AS POSSIBLE. RE: PIPING SUPPORT DETAILS, COORDINATE ROUTING WITH STRUCTURE AND DUCTWORK LAYOUT.
 - INSTALL ACOUSTICAL CAULKING TO ALL PIPES PENETRATING ACOUSTICAL WALLS. SEE ARCHITECT'S DRAWINGS FOR ALL ACOUSTICAL WALLS.
 - ALL WATER PIPING SHARED BY BACK TO BACK WATER CLOSETS AND LAVATORIES ARE 1-1/4" AND 3/4" RESPECTIVELY UNLESS OTHERWISE NOTED.
 - RE: PLUMBING DETAIL SHEET FOR ALL DETAILS THAT ARE NOT REFERENCED.

- SHEET NOTES:**
- ROUTE WATER PIPING DOWN IN WALL TO FIXTURES AND EQUIPMENT. REFER TO FIXTURE SCHEDULE FOR CONNECTION SIZES AND REQUIREMENTS. SIZE AS INDICATED.
 - ROUTE 1/2" PEX TUBING INDEPENDENTLY FROM FLUSH VALVE TRAP PRIMER OVER FLOOR TO FLOOR DRAIN TRAP. REFER TO WASTE AND VENT DRAWING FOR FLOOR DRAIN LOCATION.
 - INSTALL SHOCK ARRESTER ON THE CW PIPE IN WALL. FURNISH AND INSTALL A 12"x12" ACCESS PANEL. COORDINATE THE EXACT ACCESS PANEL LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
 - ROUTE HW MAIN DOWN IN WALL TO LAVATORY ROUGH-IN HEIGHT, OFFSET HORIZONTALLY, AND ROUTE IN WALL TO FIXTURES. TERMINATE EACH LAVATORY HW SUPPLY WITHIN 2" OF THE FIXTURE SUPPLY PIPE.
 - ROUTE HW MAIN UP IN WALL TO ABOVE CEILING.
 - APPLY 3-HOUR FIRE RATED CAULKING PER SPECIFICATION AT THE LOCATION SHOWN.



1 WATER & GAS PLAN - LEVEL 2 AREA A
1/8" = 1'-0"





1 PLUMBING ROOF PLAN - AREA A
1/8" = 1'-0"

LEGEND:
(RE: PLUMBING COVER SHEET FOR ADDITIONAL INFORMATION)

—MPG— MEDIUM PRESSURE GAS	— — BALL VALVE
—NG— NATURAL GAS	— — PRESSURE REDUCING VALVE
— — PIPE ELBOW UP	— — GAS SHUT-OFF VALVE
— — PIPE ELBOW DOWN	—XX— FIXTURE OR EQUIPMENT CALLOUT (RE: FIXTURE AND EQUIPMENT SCHEDULES)
— — PIPE TEE BRANCH UP (W/ ELBOW)	
— — PIPE TEE BRANCH DOWN (W/ ELBOW)	
— — FLOW DIRECTION INDICATOR	

GENERAL NOTES:

- COORDINATE ALL PLUMBING PIPING ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR. ALL PIPING PENETRATING THE ROOF MUST BE INSTALLED WITH A PREMANUFACTURED PENETRATION BOOT ASSEMBLY OR PROPERLY SEALED PER THE ARCHITECTURAL DRAWINGS.
- REFER TO THE MECHANICAL PLANS FOR EQUIPMENT AND DUCTWORK LOCATIONS BEFORE INSTALLING ANY PIPING. COORDINATE WITH THE MECHANICAL CONTRACTOR.
- INSTALL ALL PLUMBING VTR AND GAS VENTS A MINIMUM OF 10'-0" FROM ALL OSA INTAKES.
- ALL CONDENSATE PIPING IS 1/2" UNLESS NOTED OTHERWISE.
- REFER TO THE PLUMBING DETAIL SHEET ALL PLUMBING DETAILS THAT ARE NOT REFERENCED.

- SHEET NOTES:**
- ROUTE SANITARY VENT PIPING THROUGH ROOF. LOCATE 10'-0" MINIMUM FROM ANY AIR INTAKE AND COORDINATE WITH HVAC. EXTEND ABOVE LOCAL SNOW AND DRIFT LINE CONDITION. SIZE AS INDICATED.
 - CONNECT NEW CONDENSATE DRAIN TO MECHANICAL UNIT WITH P-TRAP AND SPILL ONTO ROOF. SIZE AS INDICATED. ROUTE DRAIN PIPING DOWNWELL IN DIRECTION OF DOWNWARD ROOF PITCH. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT IN FIELD. RE: AC UNIT CONDENSATE DRAIN DETAIL AND PIPE SUPPORT ON ROOF DETAIL.
 - ROUTE RWL AND OFL THROUGH ROOF. ROUTE RWL AND OFL DOWN IN WALL. TRANSITION TO CAST IRON PIPE IN HEATED SPACE. ROUTE THROUGH EXTERIOR WALL 1' ABOVE LOWER FINISHED ROOF. EXTEND 18" OUTSIDE TO CLEAR EXISTING BUILDING EXTERIOR WALL. TURN DOWN 90° AND SPILL ONTO LOWER ROOF.
 - ROUTE RWL AND OFL DOWN. TRANSITION TO CAST IRON PIPE IN HEATED SPACE. ROUTE DOWN THROUGH ROOF SOFFIT. AND TERMINATE 2" FAST UNDERSIDE OF SOFFIT OVERHANG AND SPILL ONTO LOWER ROOF.
 - CONNECT NATURAL GAS PIPING TO EQUIPMENT. PROVIDE GALVANIZED SHUT-OFF VALVE, FLEXIBLE APPLIANCE CONNECTOR, 3" MIN. DIST. LEG. AND UNION. SIZE AS INDICATED. RE: GAS TO UNIT CONNECTION DETAIL.
 - ROUTE MPG PIPE THROUGH ROOF. SIZE AS INDICATED.
 - INSTALL NG PRESSURE REGULATOR AS SHOWN. INLET PRESSURE = 2 PSI (NOMINAL). DISCHARGE PRESSURE = 7" WC. UNLESS OTHERWISE INDICATED. SIZE REGULATOR FOR THE CONNECTED LOAD SHOWN. REDUCE PIPE SIZE AS NECESSARY. INSTALL PRESSURE REGULATOR VENT OUTLET A MINIMUM OF 10'-0" FROM ALL OSA INTAKES. RE: GAS PRESSURE REGULATOR AND CONNECTION DETAILS.
 - ROUTE CW UP THROUGH ROOF AND CONNECT TO ROOF MOUNTED HOSE BIBB. SIZE AND ROUTING DIRECTION AS INDICATED.
 - ROUTE NEW GAS PIPING ON ROOF WITH PIPE SUPPORTS SPACED AT MINIMUM 7'-0" ON CENTERS. RE: PIPE SUPPORT ON ROOF DETAIL.
 - INSTALL CONCENTRIC ROOF VENT KIT FURNISHED WITH THE WATER HEATER INDICATED. DO NOT INSTALL WITHIN 10'-0" FROM ALL AIR INTAKES INTO THE BUILDING.
 - EQUIPMENT FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

AGENCY REVIEW SET

PROJECT	DATE
21403.000	03-11-23
DRAWN	CHECKED
KRA	KRA
REVISED	

KEY PLAN:

PLUMBING ROOF PLAN - AREA A

P33A

ORIGINAL SHEET SIZE 36" x 48"

CSHOA

AGENCY REVIEW SET

PROJECT	DATE
21403.000	03-11-23
DRAWN	CHECKED
KRA	KRA
REVISED	

PLUMBING ROOF PLAN - AREA A

P33A

ORIGINAL SHEET SIZE 36" x 48"

PROFESSIONAL ENGINEER
10955
STATE OF IDAHO
KENT R. ANDERSON

DESIGN APPROVED BY: Kent R. Anderson
Date: 03/11/23

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: (208) 343-4656
FAX: (208) 343-1658
WWW.CSHOA.COM

TERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION
427 Shoshone St N Twin Falls, ID

CSHOA

AGENCY REVIEW SET

PROJECT	DATE
21403.000	03-11-23
DRAWN	CHECKED
KRA	KRA
REVISED	

KEY PLAN:

PLUMBING ROOF PLAN - AREA A

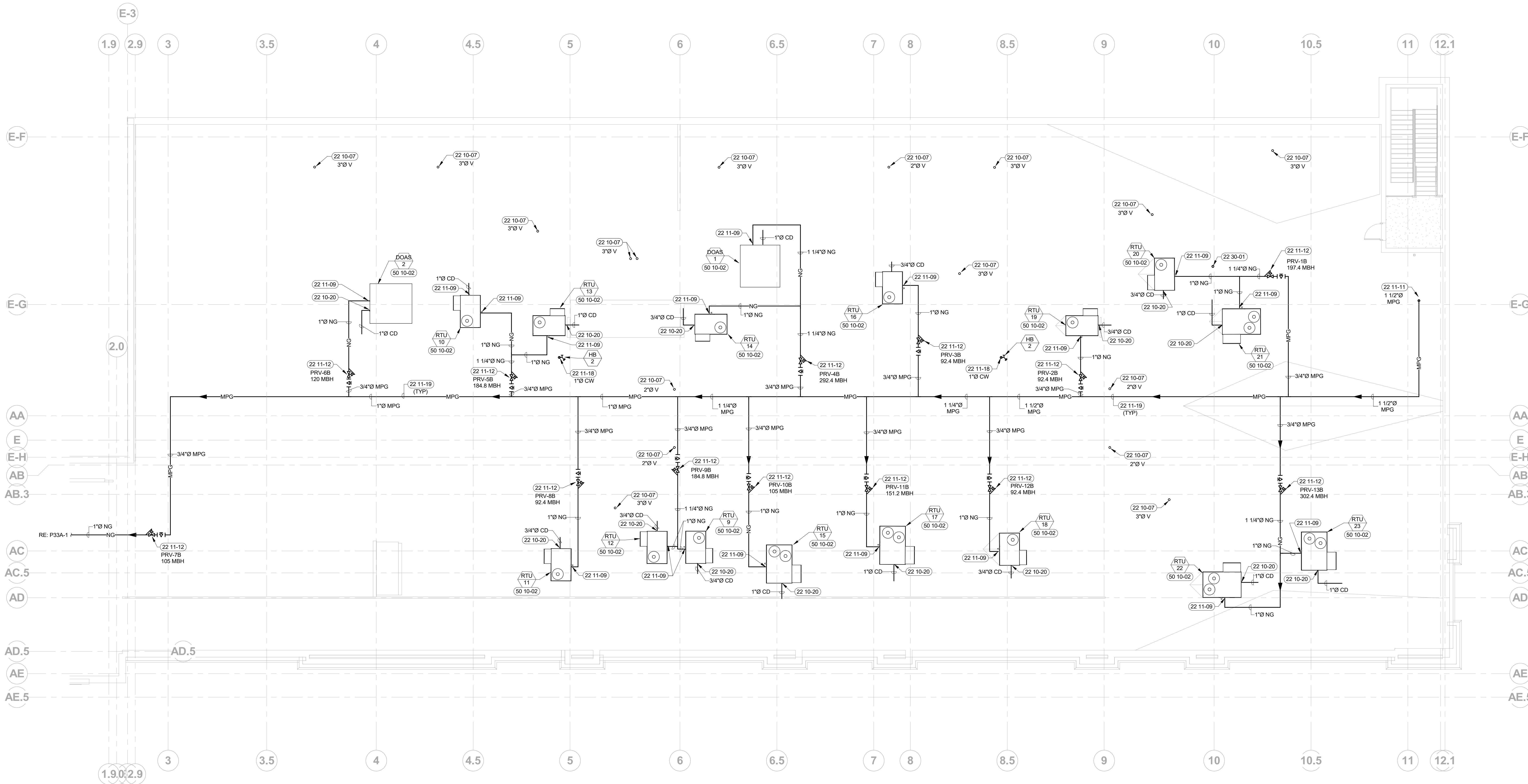
P33A

ORIGINAL SHEET SIZE 36" x 48"

PROFESSIONAL ENGINEER
10955
STATE OF IDAHO
KENT R. ANDERSON

DESIGN APPROVED BY: Kent R. Anderson
Date: 03/11/23

200 BROAD STREET
BOISE, IDAHO 83702
PHONE: (208) 343-4656
FAX: (208) 343-1658
WWW.CSHOA.COM



1 PLUMBING ROOF PLAN - AREA B
1/8" = 1'-0"

LEGEND:
(RE: PLUMBING COVER SHEET FOR ADDITIONAL INFORMATION)

—MPG— MEDIUM PRESSURE GAS	—1/2"— BALL VALVE
—NG— NATURAL GAS	—R— PRESSURE REDUCING VALVE
—PIPE ELBOW UP	—S— GAS SHUT-OFF VALVE
—PIPE ELBOW DOWN	—XX— FIXTURE OR EQUIPMENT CALLOUT (RE: FIXTURE AND EQUIPMENT SCHEDULES)
—PIPE TEE BRANCH UP (W/ ELBOW)	—
—PIPE TEE BRANCH DOWN (W/ ELBOW)	—
—FLOW DIRECTION INDICATOR	—

- GENERAL NOTES:**
- COORDINATE ALL PLUMBING PIPING ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR. ALL PIPING PENETRATING THE ROOF MUST BE INSTALLED WITH A PREMANUFACTURED PENETRATION BOOT ASSEMBLY OR PROPERLY SEALED PER THE ARCHITECTURAL DRAWINGS.
 - REFER TO THE MECHANICAL PLANS FOR EQUIPMENT AND DUCTWORK LOCATIONS BEFORE INSTALLING ANY PIPING. COORDINATE WITH THE MECHANICAL CONTRACTOR.
 - INSTALL ALL PLUMBING VTR AND GAS VENTS A MINIMUM OF 10'-0" FROM ALL OSA INTAKES.
 - ALL CONDENSATE PIPING IS 1/2" UNLESS NOTED OTHERWISE.
 - REFER TO THE PLUMBING DETAIL SHEET ALL PLUMBING DETAILS THAT ARE NOT REFERENCED.

- SHEET NOTES:**
- ROUTE SANITARY VENT PIPING THROUGH ROOF. LOCATE 10'-0" MINIMUM FROM ANY AIR INTAKE AND COORDINATE WITH HVAC. EXTEND ABOVE LOCAL SNOW AND DRIFT-LINE CONDITION. SIZE AS INDICATED.
 - CONNECT NEW CONDENSATE DRAIN TO MECHANICAL UNIT WITH P-TRAP AND SPILL ONTO ROOF. SIZE AS INDICATED. ROUTE DRAIN PIPING DOWNWELL IN DIRECTION OF DOWNWARD ROOF PITCH. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT IN FIELD. RE: AC UNIT CONDENSATE DRAIN DETAIL AND PIPE SUPPORT ON ROOF DETAIL.
 - CONNECT NATURAL GAS PIPING TO EQUIPMENT. PROVIDE CSA LISTED SHUT-OFF VALVE, FLEXIBLE APPLIANCE CONNECTOR, 3/4" MIN DRIFT LEG, AND UNION. SIZE AS INDICATED. RE: GAS TO UNIT CONNECTION DETAIL.
 - ROUTE MPG PIPE THROUGH ROOF. SIZE AS INDICATED.
 - INSTALL NG PRESSURE REGULATOR AS SHOWN. INLET PRESSURE = 2 PSI (NOMINAL). DISCHARGE PRESSURE = 7" WC. UNLESS OTHERWISE INDICATED. SIZE REGULATOR FOR THE CONNECTED LOAD SHOWN. REDUCE PIPE SIZE AS NECESSARY. INSTALL PRESSURE REGULATOR VENT OUTLET A MINIMUM OF 10'-0" FROM ALL OSA INTAKES. RE: GAS PRESSURE REGULATOR AND CONNECTION DETAILS.
 - ROUTE CW UP THROUGH ROOF AND CONNECT TO ROOF MOUNTED HOSE BIBS. SIZE AND ROUTING DIRECTION AS INDICATED.
 - ROUTE NEW GAS PIPING ON ROOF WITH PIPE SUPPORTS SPACED AT MINIMUM 7'-0" ON CENTERS. RE: PIPE SUPPORT ON ROOF DETAIL.
 - INSTALL CONCENTRIC ROOF VENT KIT FURNISHED WITH THE WATER HEATER INDICATED. DO NOT INSTALL WITHIN 10'-0" FROM ALL AIR INTAKES INTO THE BUILDING.
 - EQUIPMENT FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

KEY PLAN:

AGENCY REVIEW SET

PROJECT 21403.000	DATE 03-31-23
DRAWN KRA	CHECKED KRA
REVISED	

SHEET TITLE
PLUMBING ROOF PLAN - AREA B

SHEET
P33B

ORIGINAL SHEET SIZE
36" x 48"

PROFESSIONAL ENGINEER
10955
STATE OF IDAHO
KENY R. ANDERSON
Date: 03/23/23 10:58:46 AM

ORIGINAL DOCUMENTS ARE HELD AT:
CSHQA, INC OFFICE, 200 BROAD STREET,
BOISE, ID 83702

KENT R. ANDERSON, P.E.
200 BROAD STREET
BOISE, IDAHO 83702
PHONE: 208-343-4656 FAX: 208-343-1658
EMAIL: ken@csgha.com
CSHQA, INC. IS AN EQUAL OPPORTUNITY EMPLOYER.
WE RESPECTFULLY PROHIBIT ANY FORM OF HARASSMENT
OR DISCRIMINATION IN THE WORKPLACE. FOR MORE
INFORMATION, PLEASE CONTACT US AT: 208-343-1658
OR VISIT OUR WEBSITE: WWW.CSHQA.COM

THERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION
427 Shoshone St N Twin Falls, ID

CSHQA

AGENCY REVIEW SET

PROJECT
21403.000

DATE
03-31-23

DRAWN
KRA

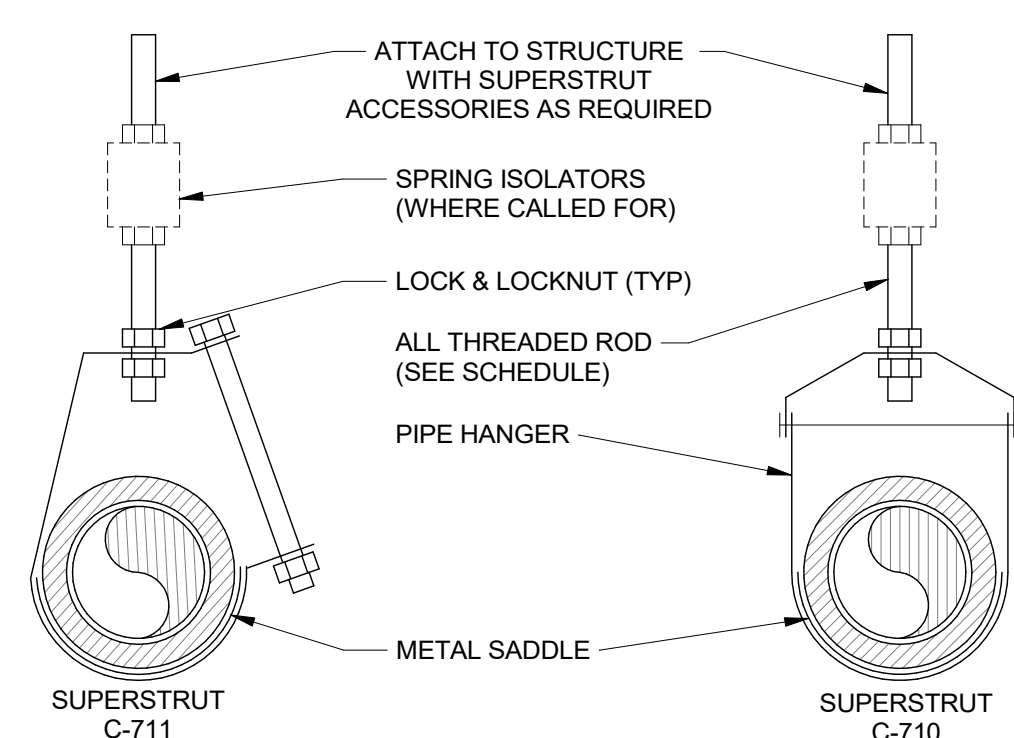
CHECKED
KRA

REVISED

SHEET TITLE
PLUMBING ROOF PLAN - AREA B

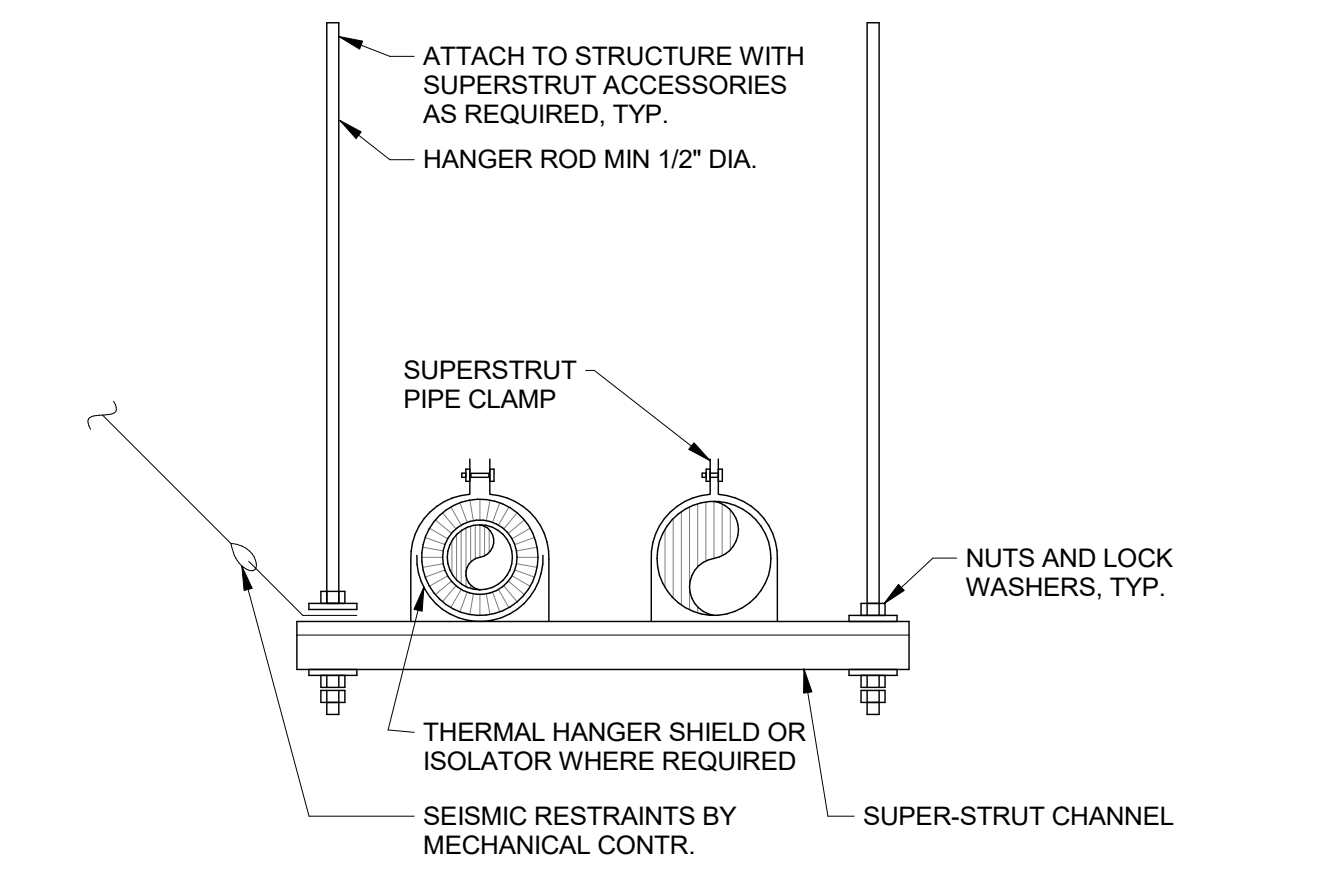
SHEET
P33B

ORIGINAL SHEET SIZE
36" x 48"

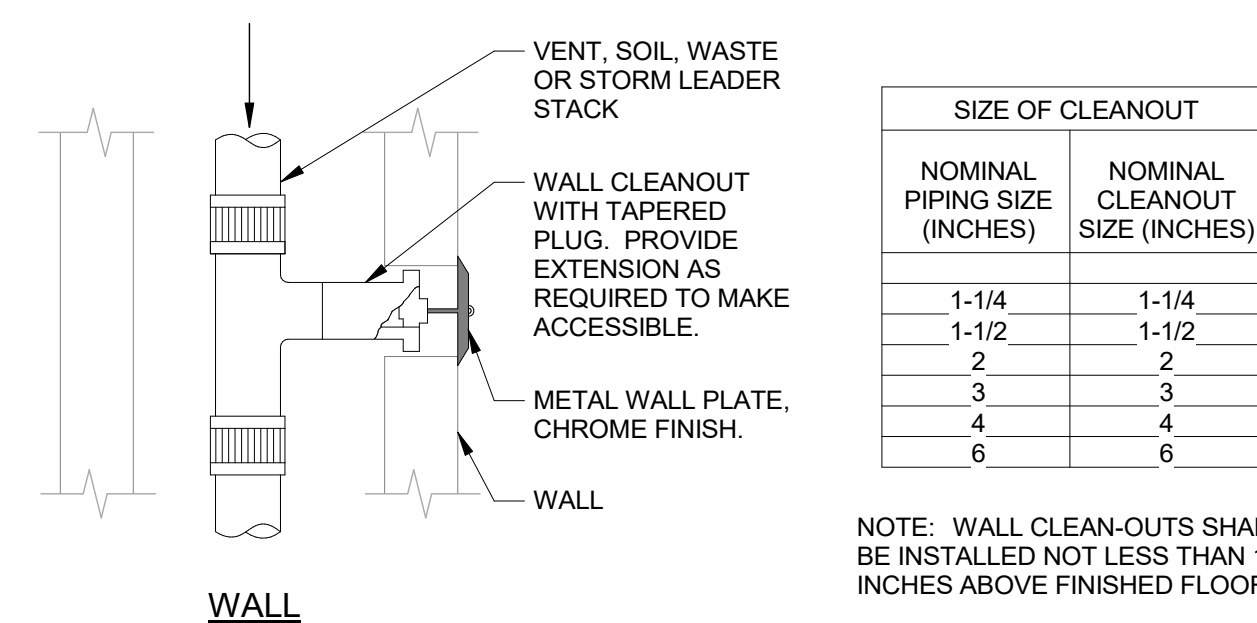


PIPE SIZE (IN)	MAX SUPPORT SPAN (FT)	MIN. ROD SIZE (IN)
ABS PIPE	4 FT	1/2 IN
CAST IRON PIPE	5 FT	5/8 IN
CPVC 1-1/4 IN AND SMALLER	3 FT	1/2 IN
CPVC 1-1/4 IN AND LARGER	4 FT	1/2 IN
COPPER PIPE	6 FT	3/8 IN
COPPER TUBE 1-1/4 IN AND SMALLER	12 FT	1/2 IN
COPPER TUBE 1-1/2 IN AND LARGER	10 FT	5/8 IN
STEEL PIPE	12 FT	5/8 IN
PEX PIPE	32 FT	3/8 IN
PVC PIPE	4 FT	1/2 IN
POLYPROPYLENE 1 IN AND SMALLER	32 FT	1/2 IN
POLYPROPYLENE 1-1/4 IN AND LARGER	4 FT	1/2 IN

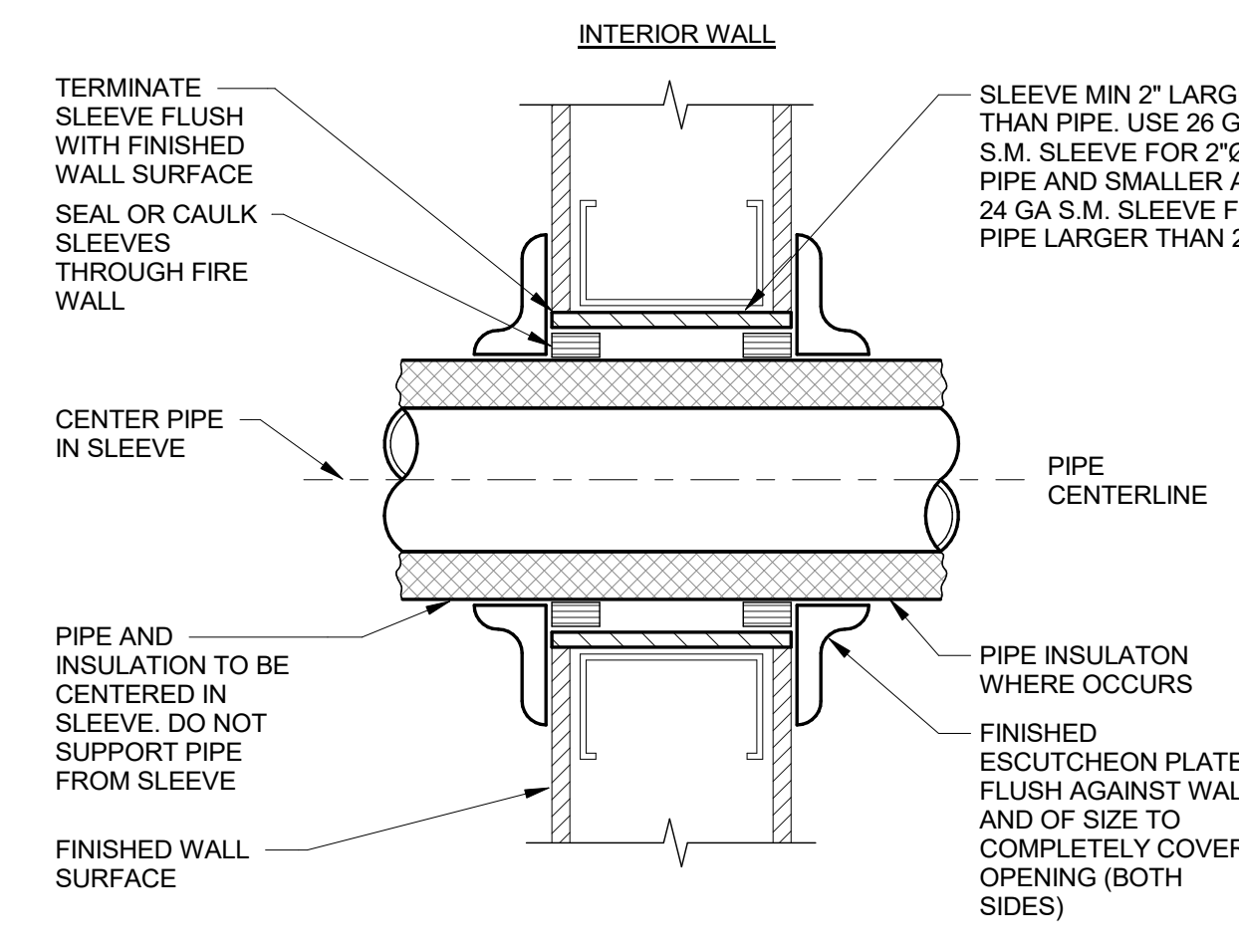
1 SINGLE PIPE SUPPORT
NTS



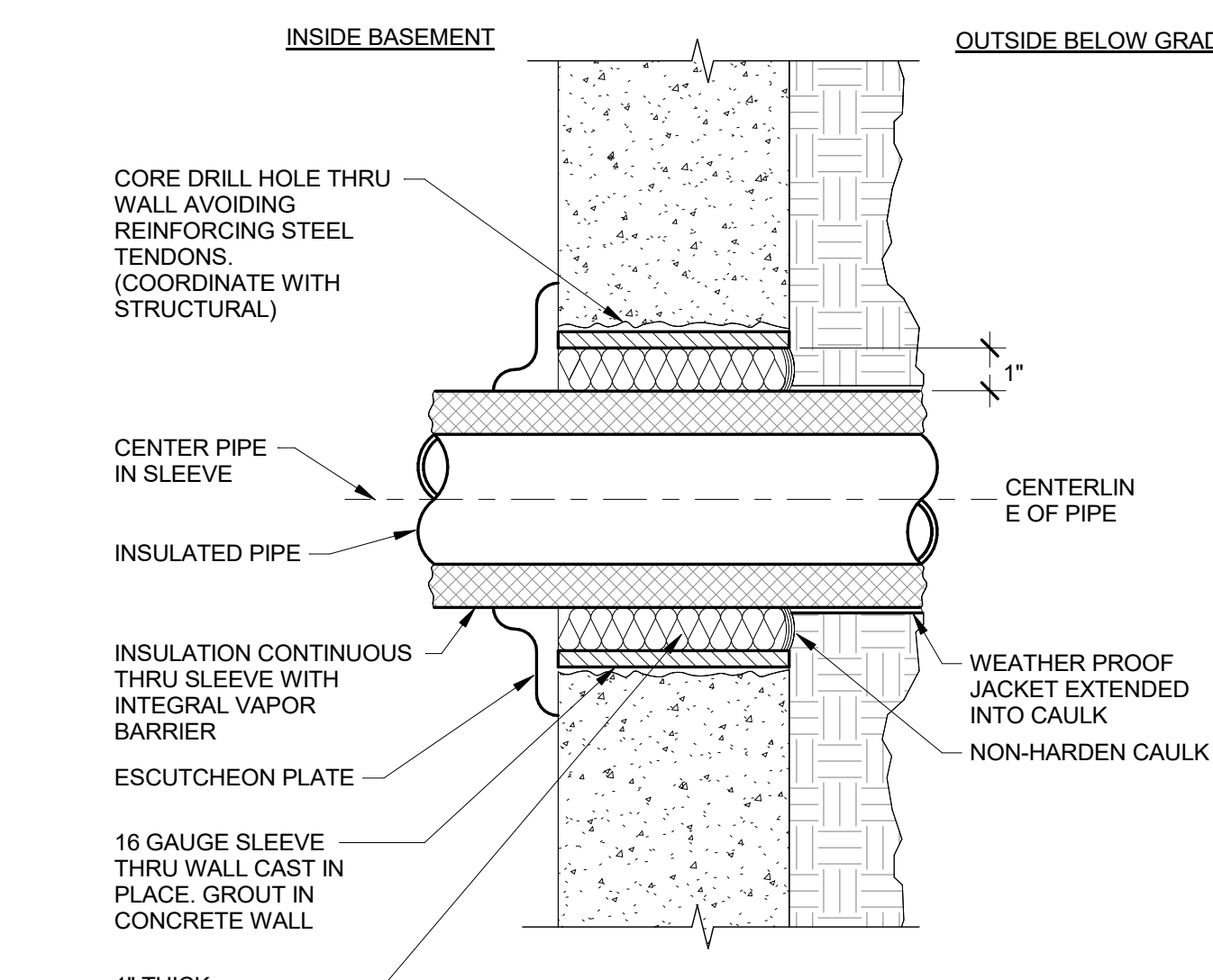
2 TRAPEZE SPRING HANGER
NTS



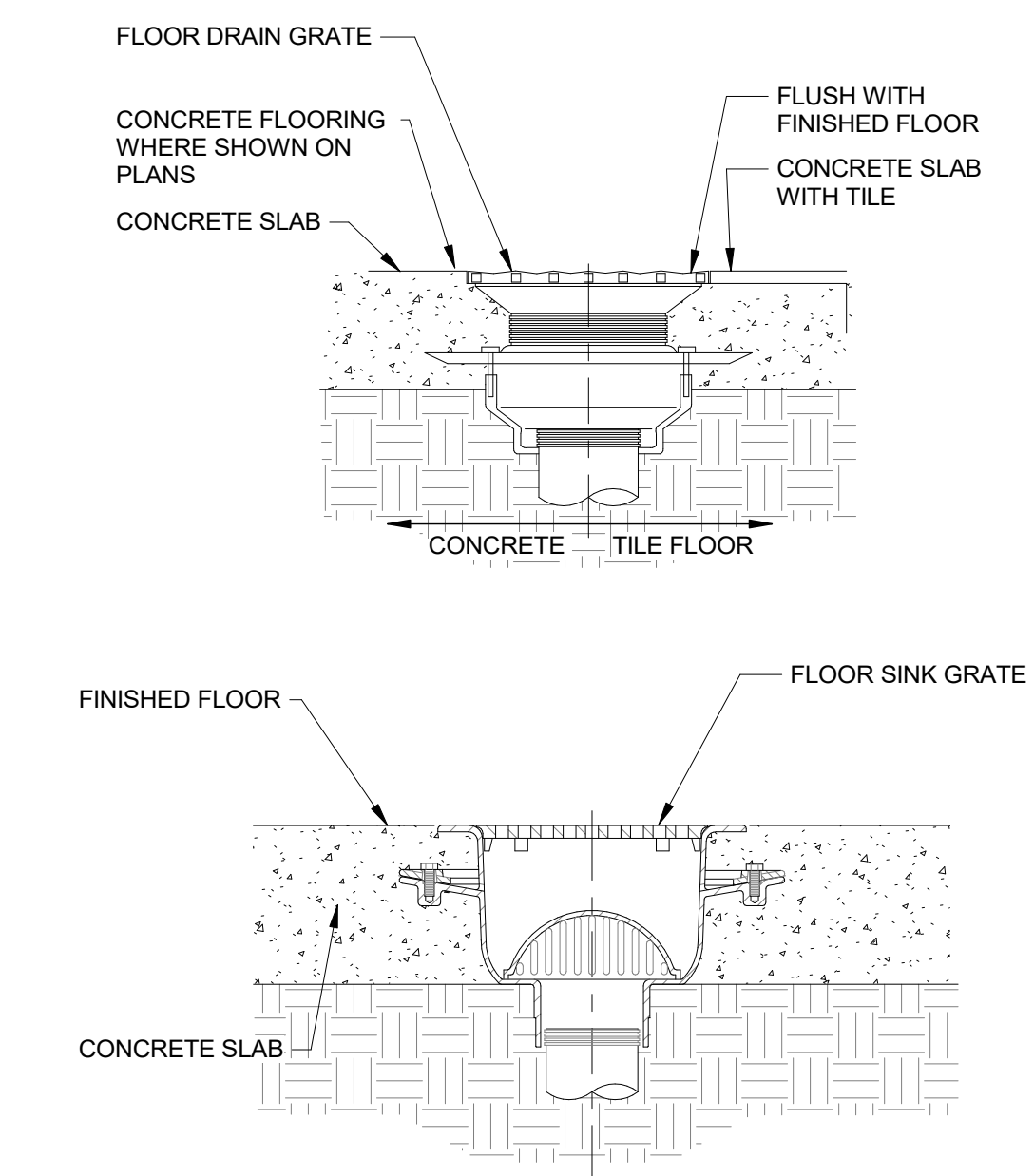
3 FLOOR AND WALL CLEANOUT
NTS



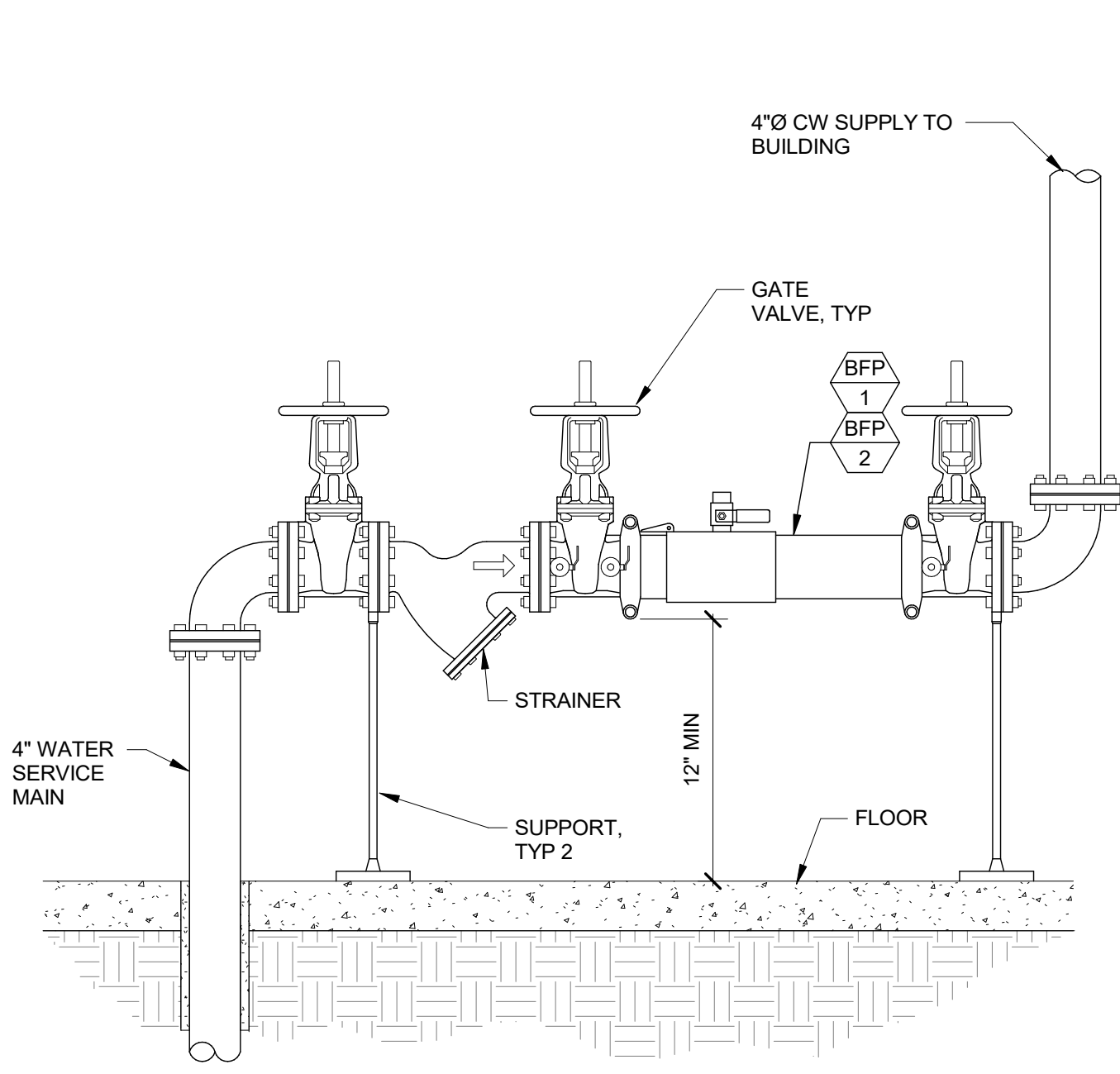
4 PIPE PENETRATION THRU FRAMED WALL
NTS



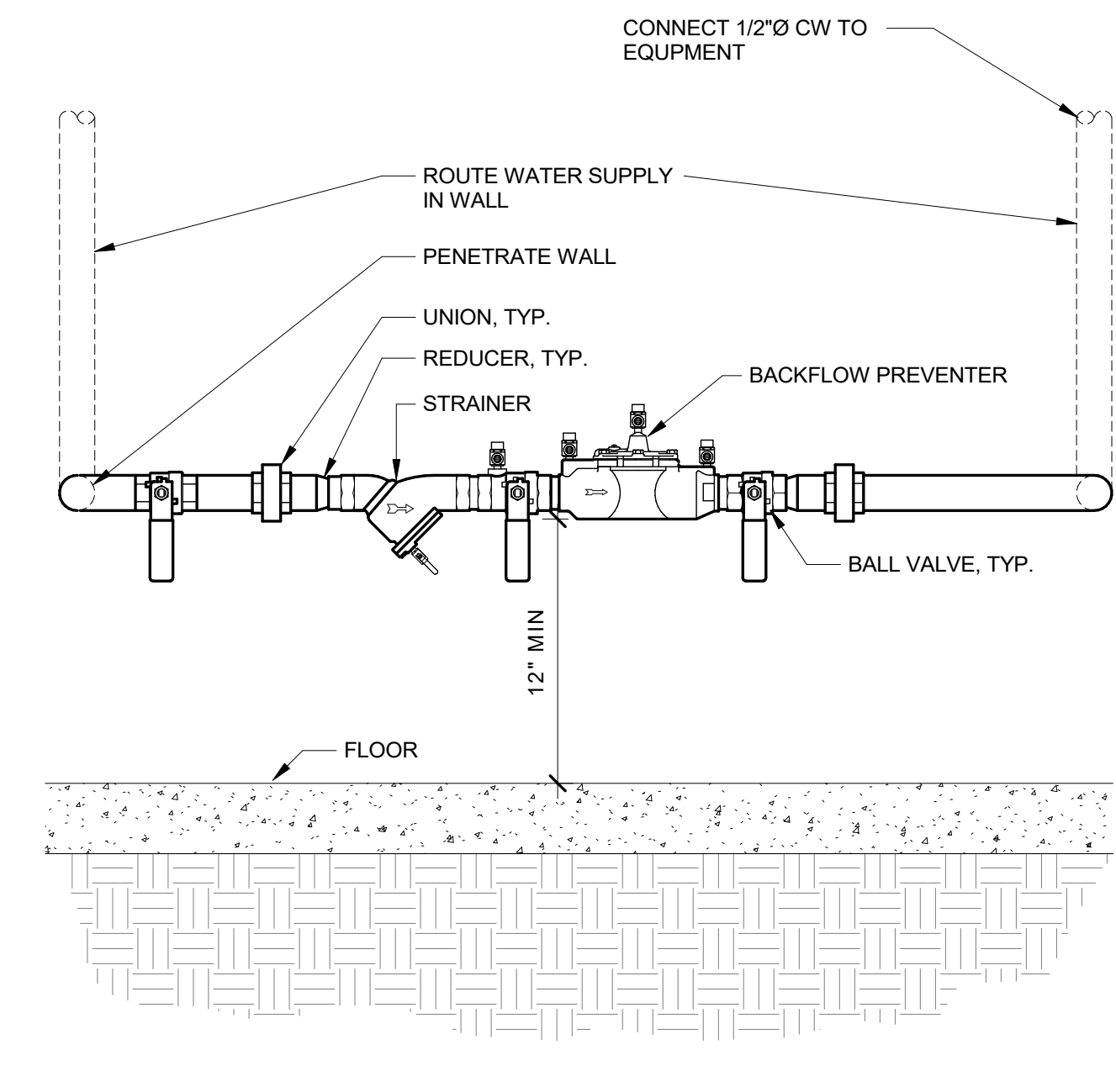
5 PIPE PENETRATION THROUGH BASEMENT WALL
NTS



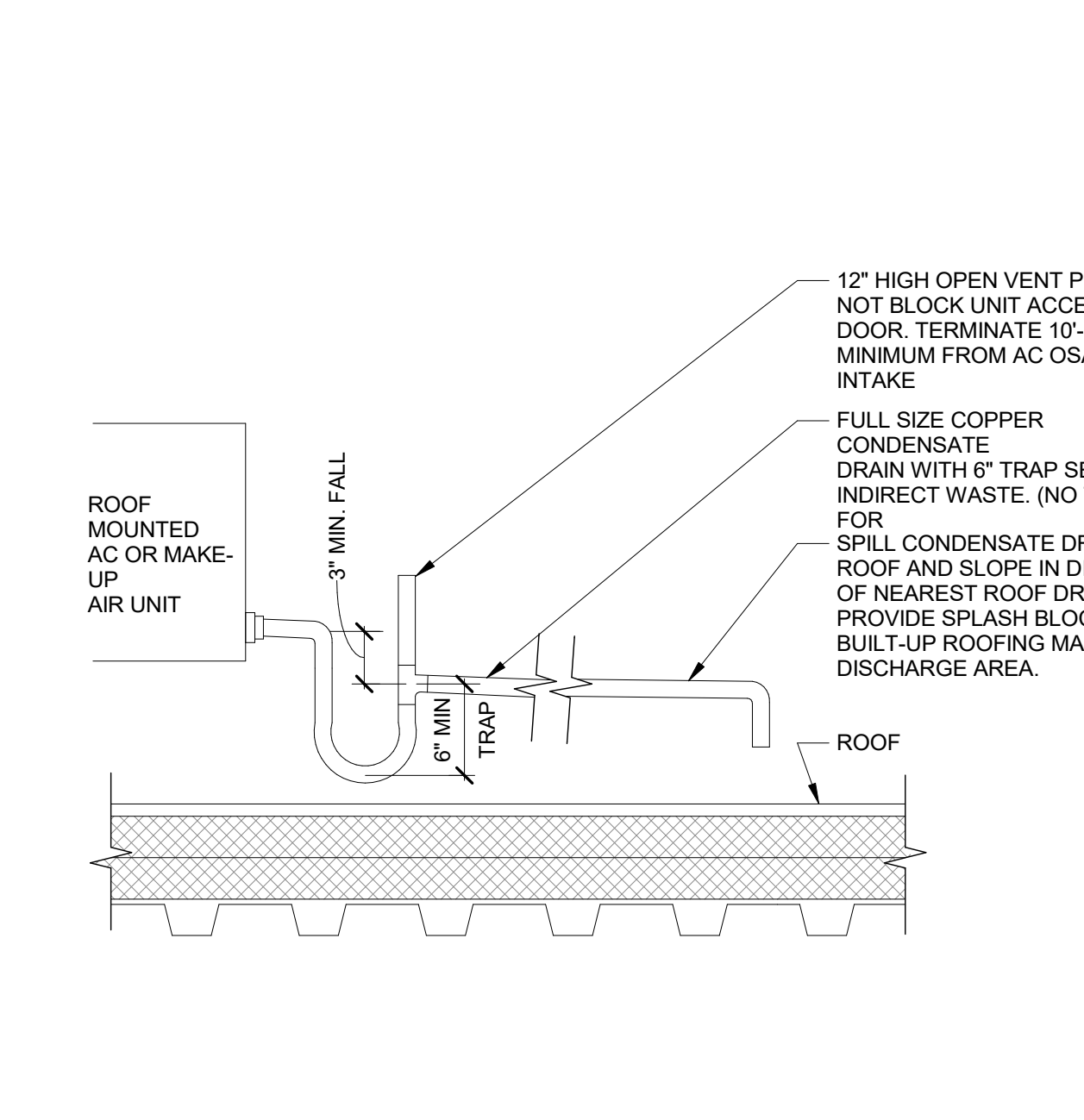
6 FLOOR DRAIN FLOOR SINK
NTS



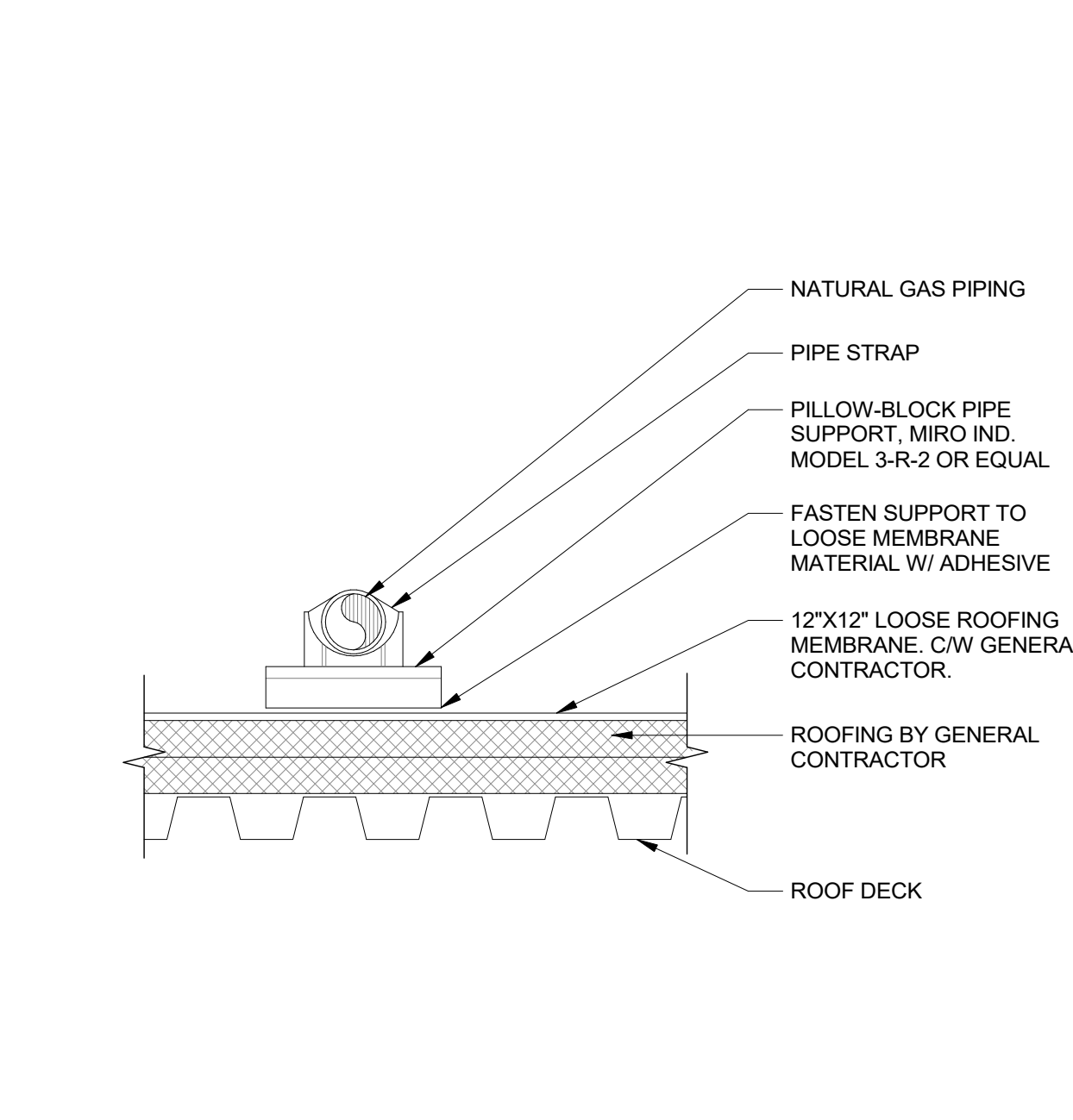
7 BACKFLOW PREVENTER
NTS



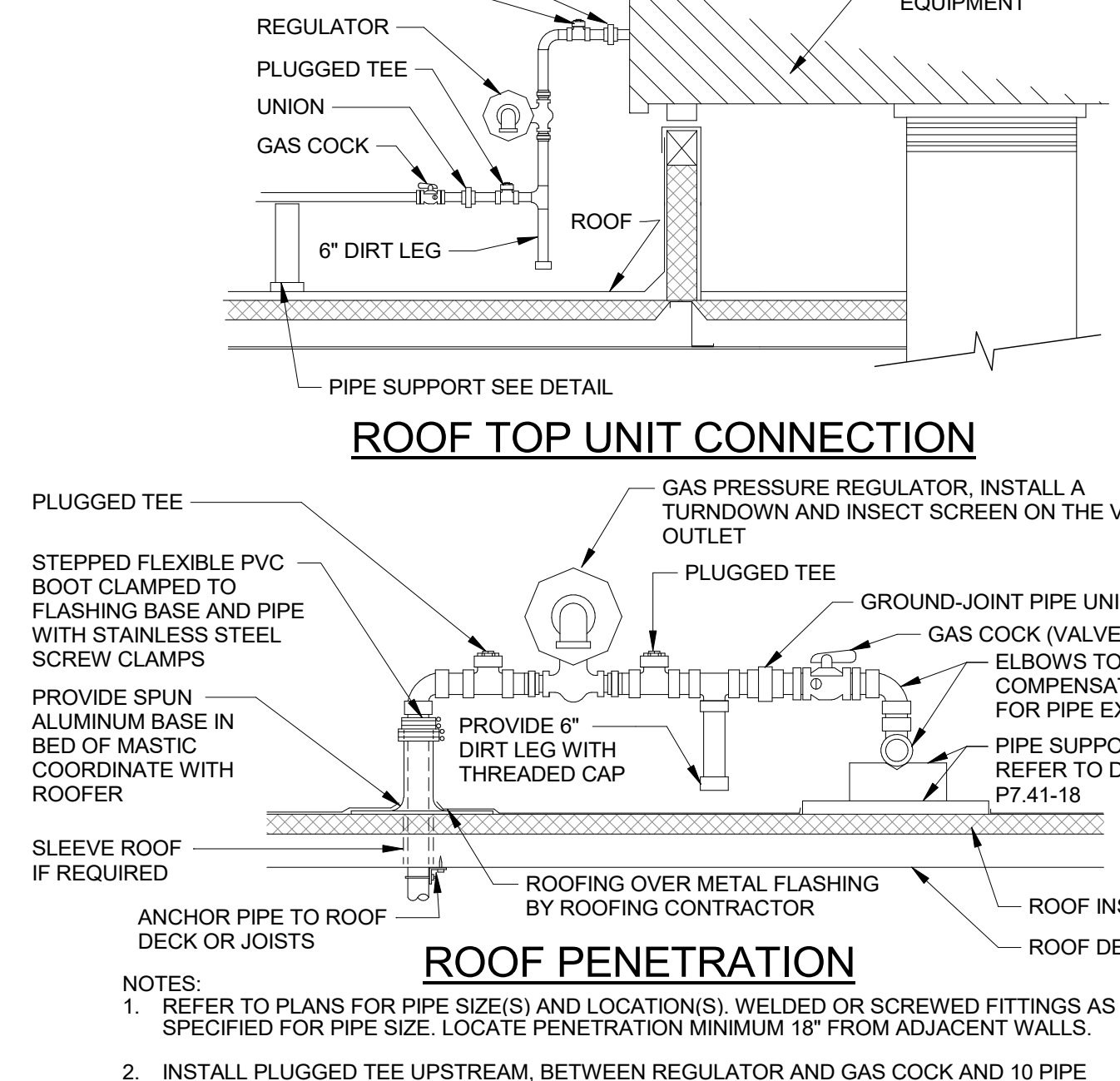
8 BACKFLOW PREVENTER SERVING EQUIPMENT
NTS



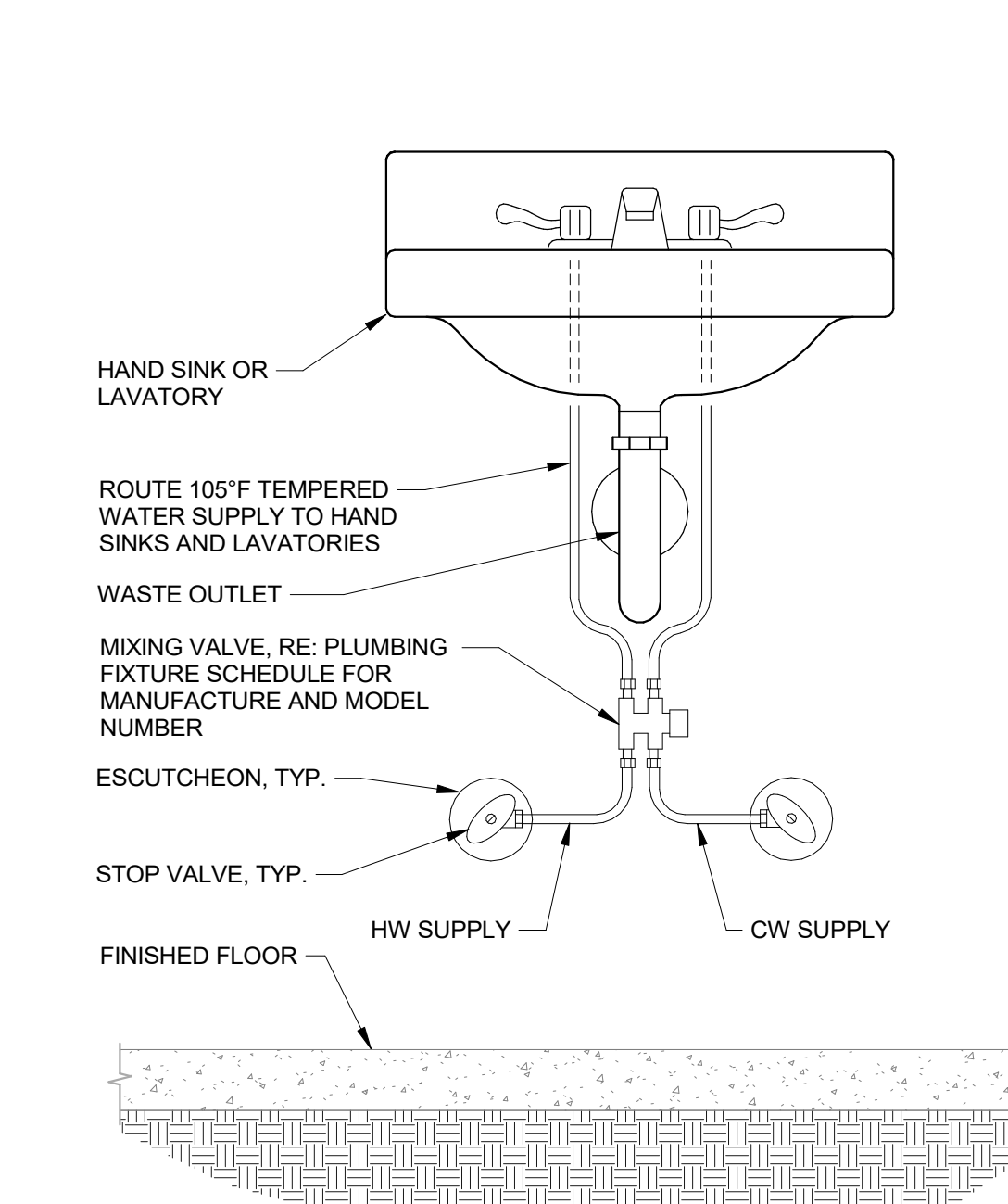
9 HVAC UNIT CONDENSATE DRAIN
NTS



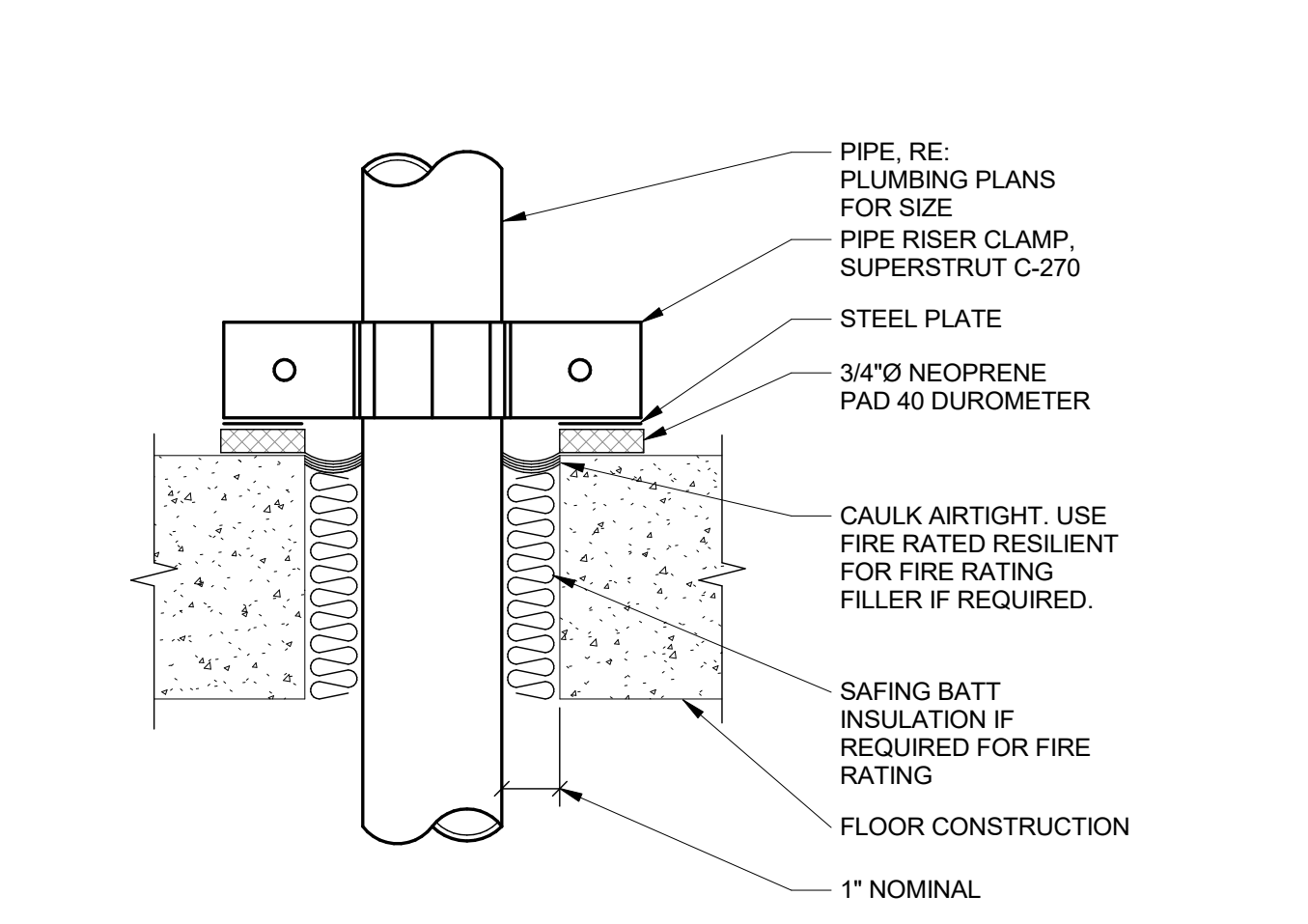
10 PIPE SUPPORT ON ROOF
NTS



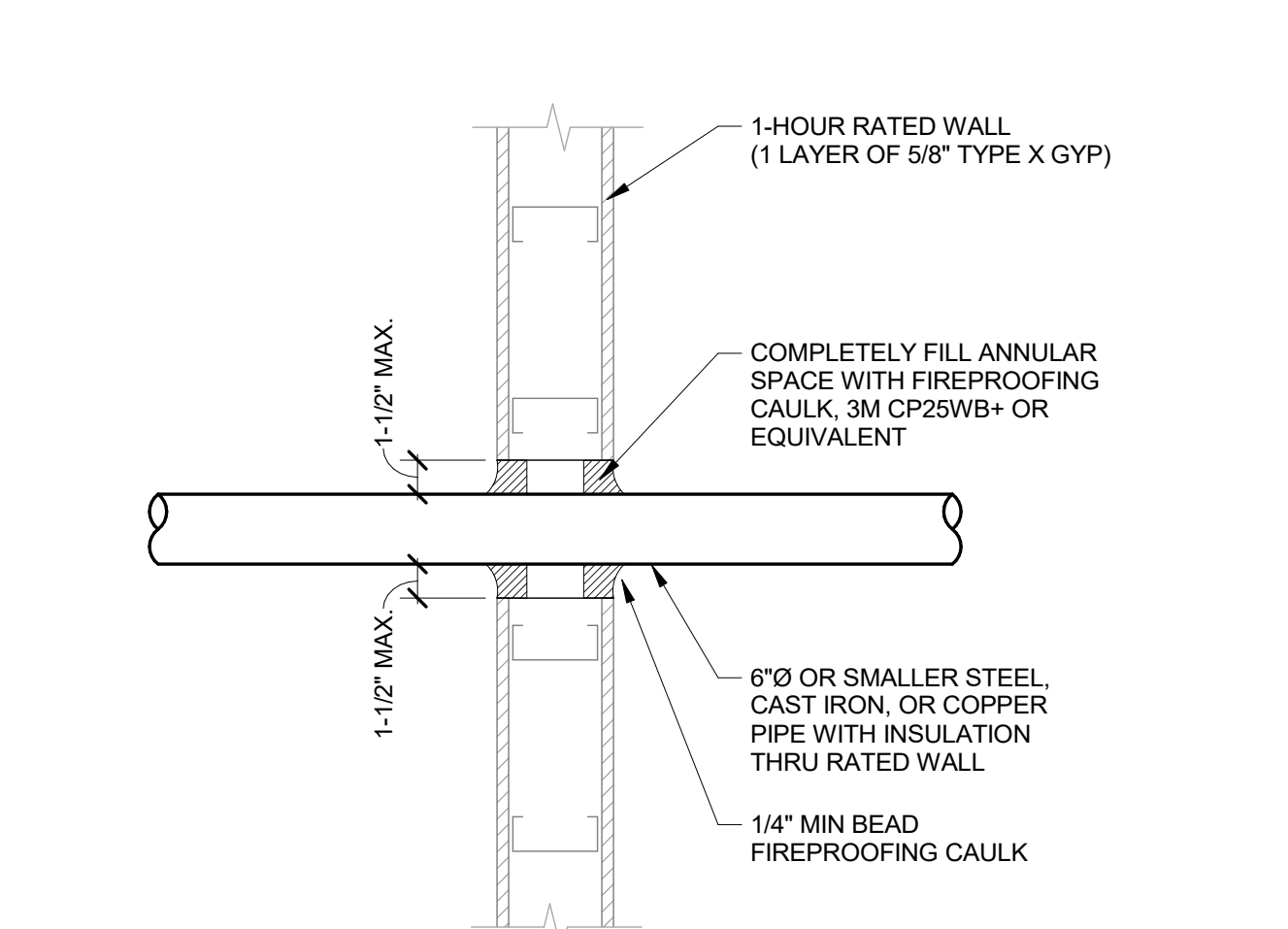
11 GAS PRESSURE REGULATOR PIPING AND CONNECTION
NTS



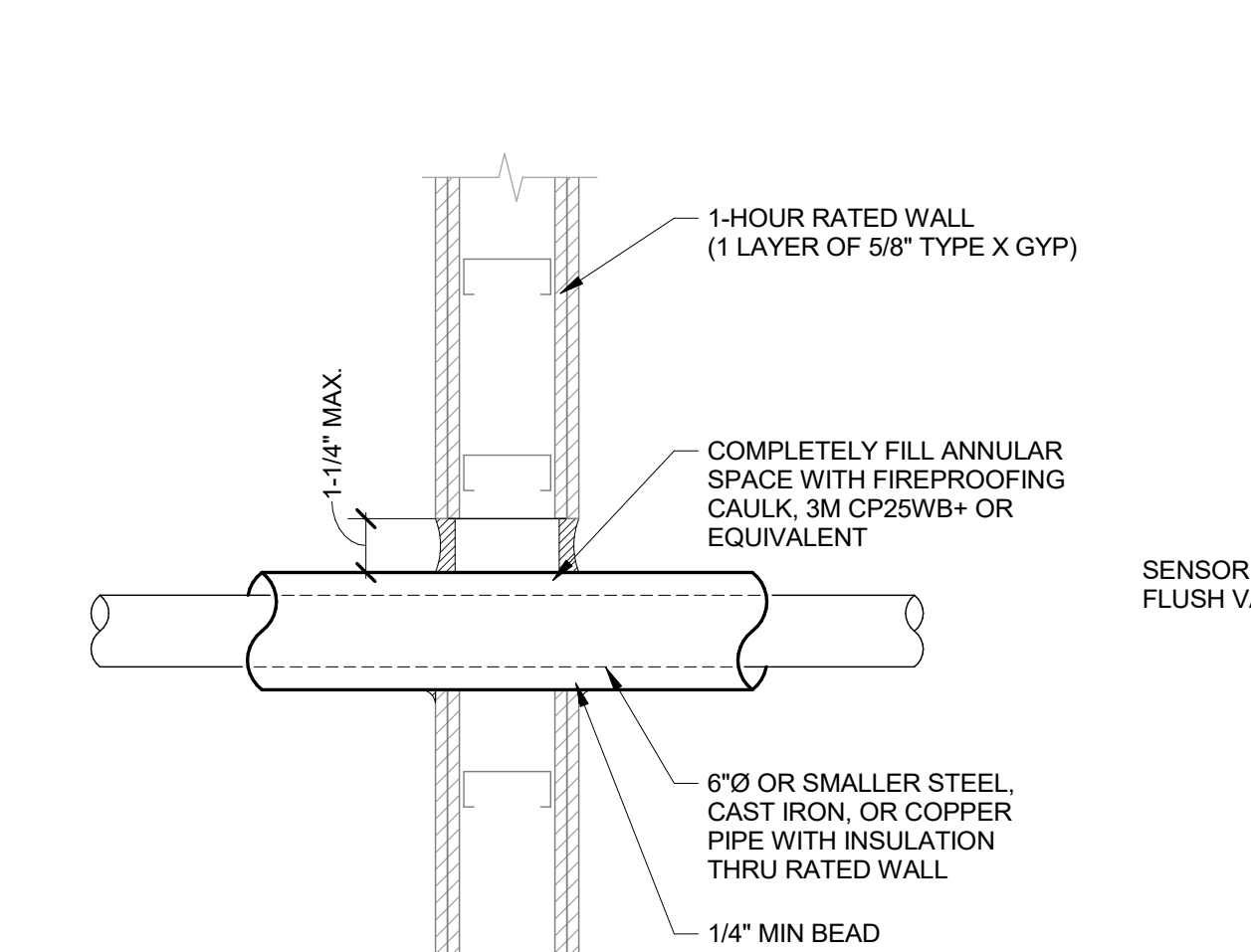
12 MIXING VALVE DETAIL
NTS



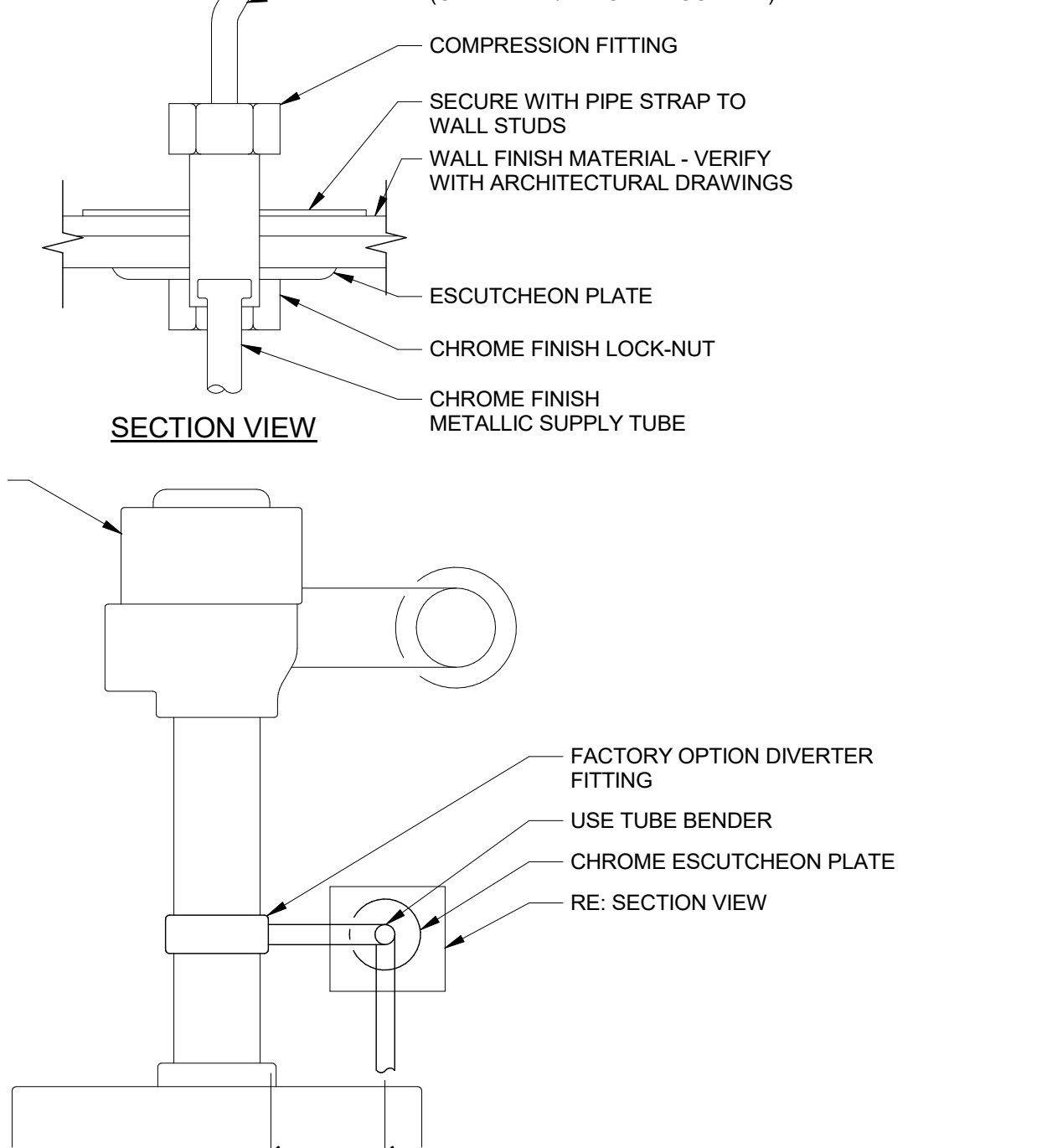
13 PIPE ISOLATION AT CONCRETE FLOOR PENETRATION
NTS



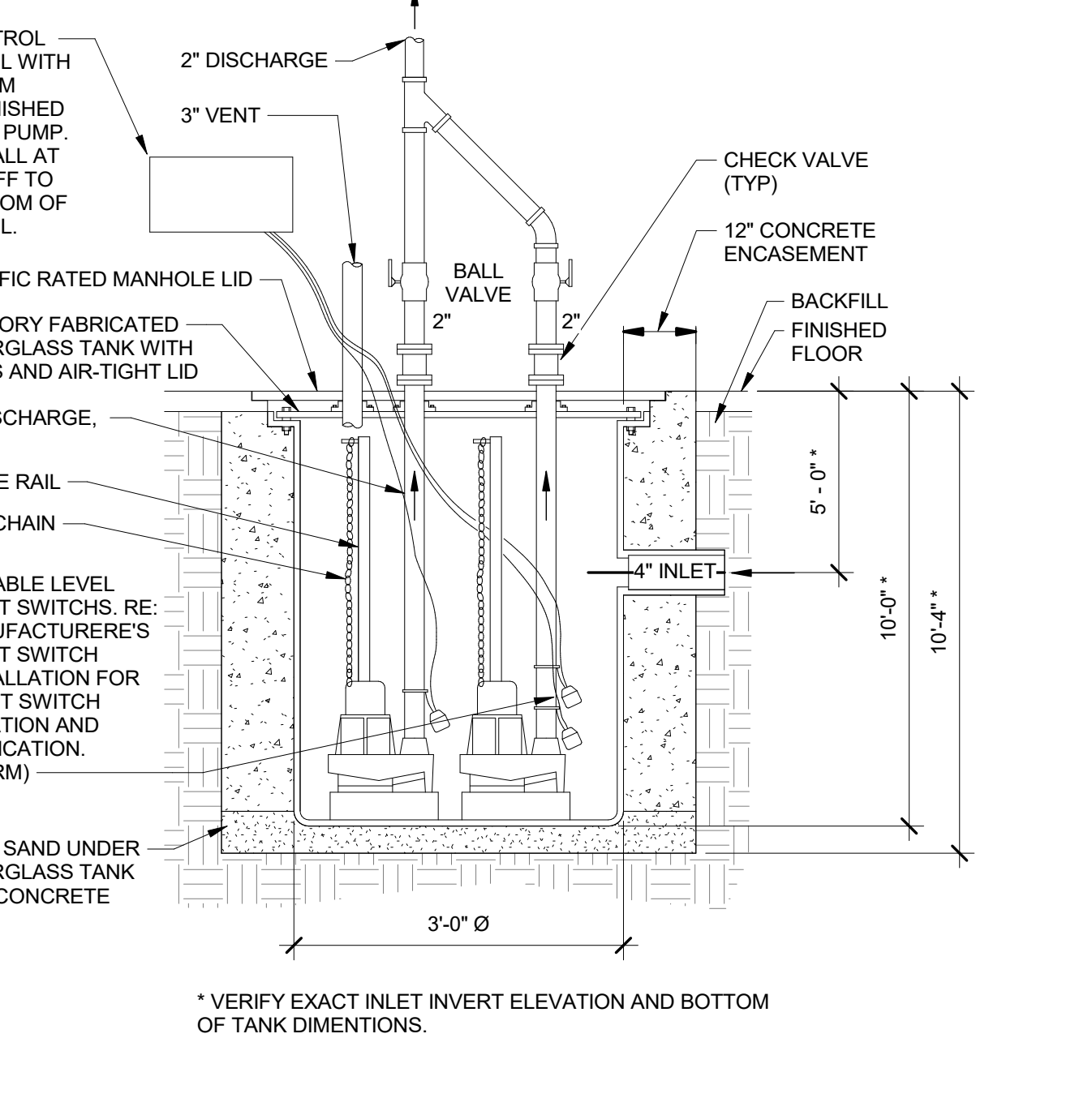
14 PIPE FIRESTOPPING THRU WALL
NTS



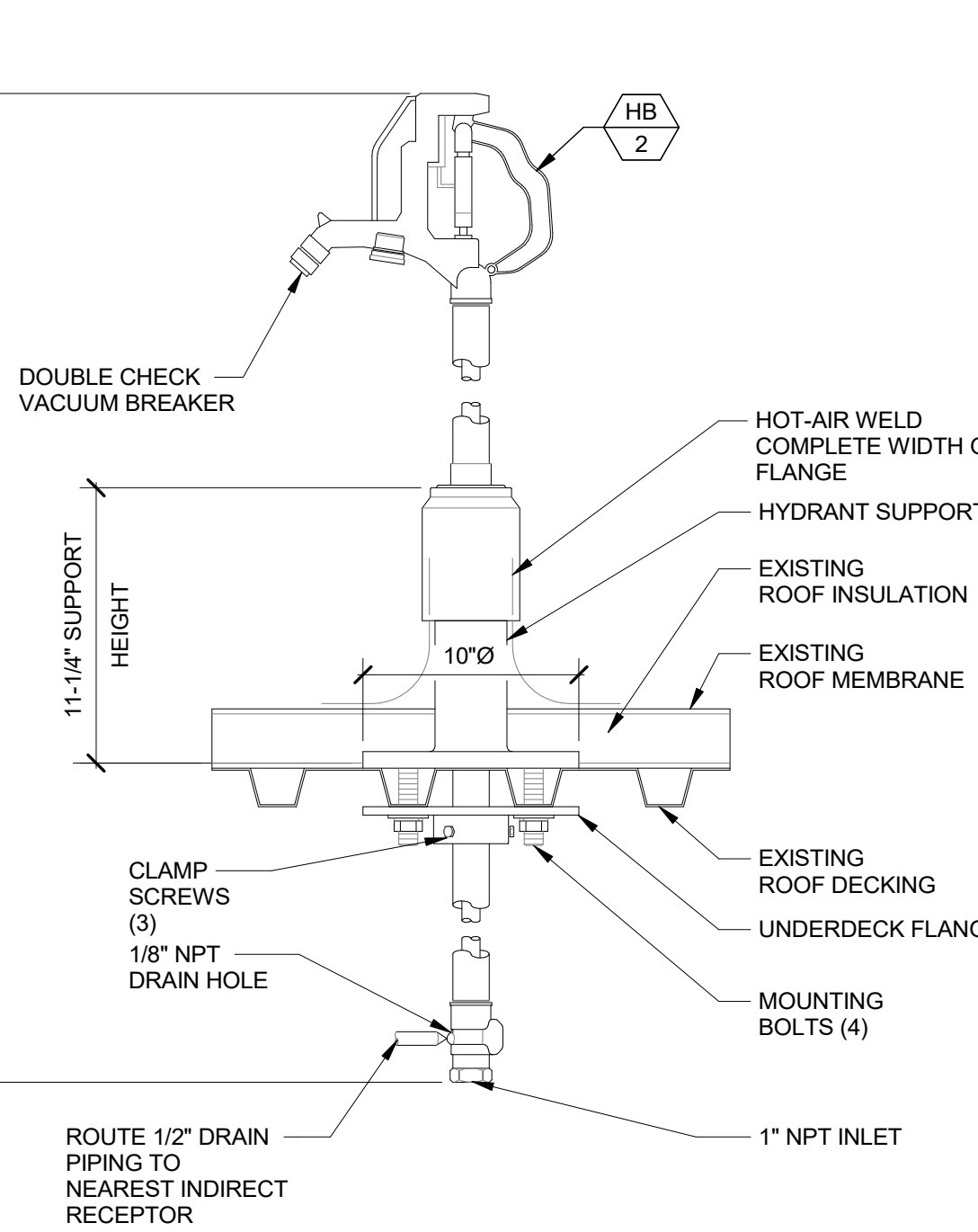
15 INSULATED PIPE FIRESTOPPING THRU WALL
NTS



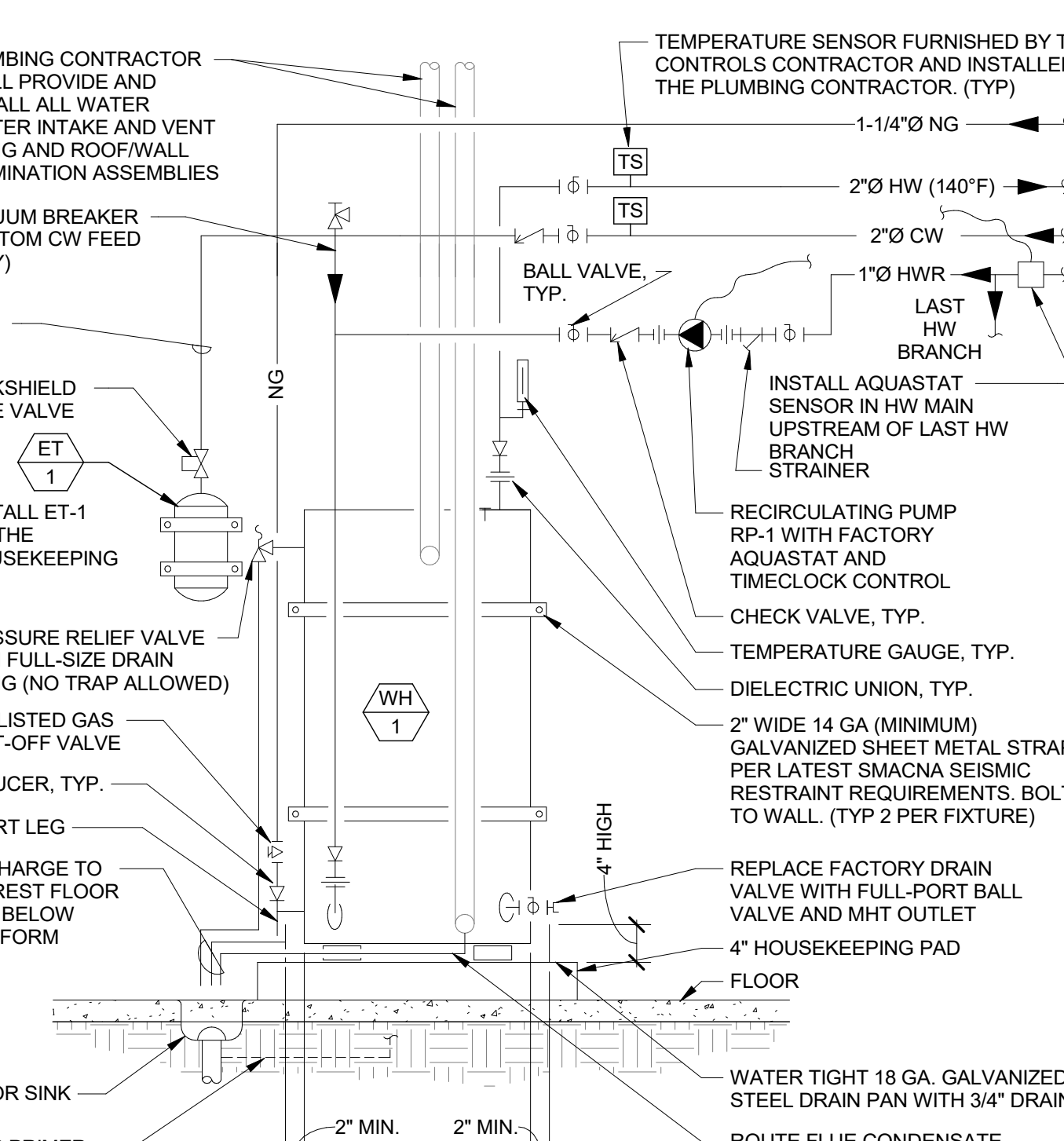
16 TRAP PRIMER AT FLUSH VALVE
NTS



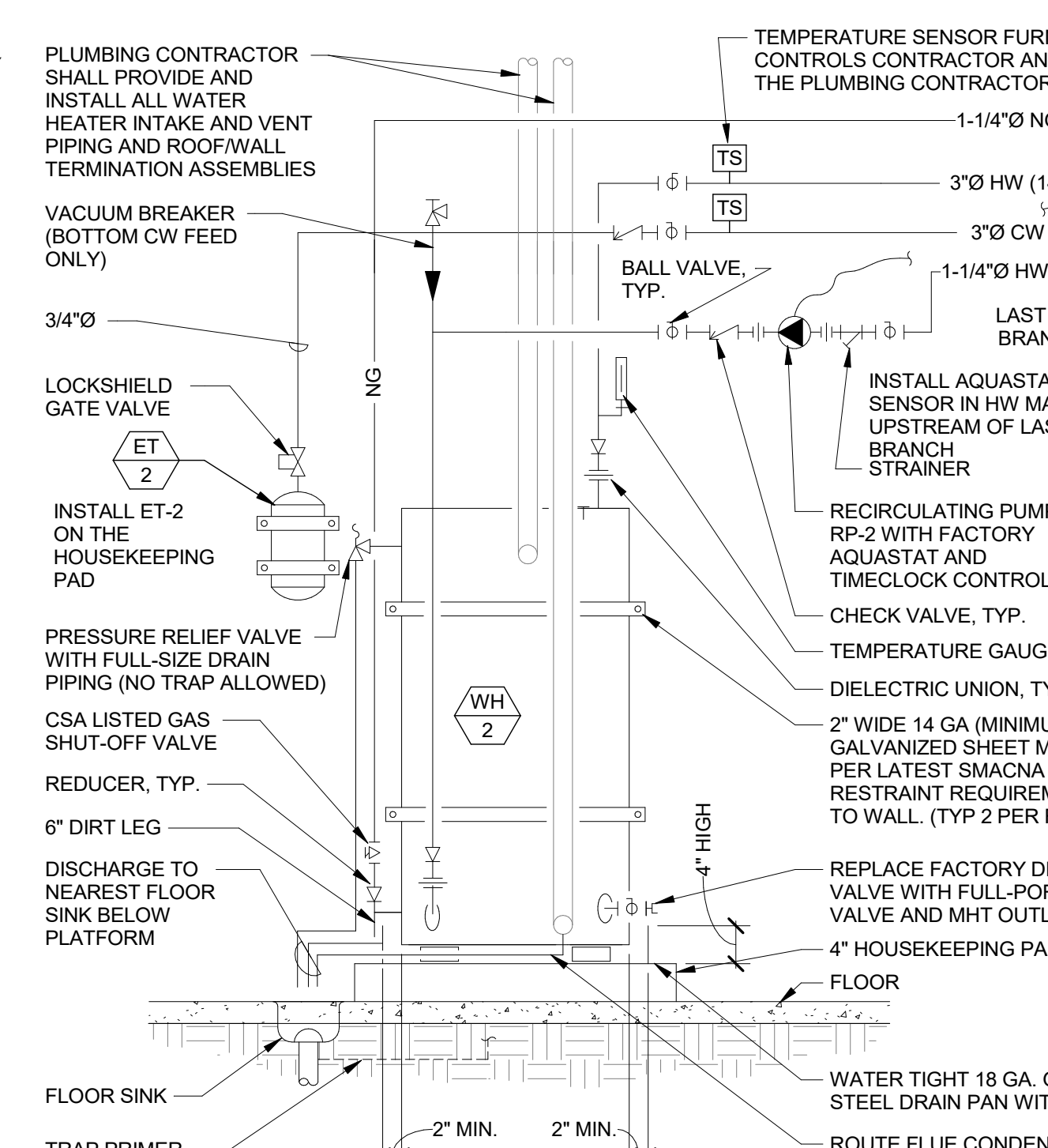
17 DUPLEX SEWAGE EJECTOR PUMP
NTS



18 ROOF MOUNTED HOSE BIBB
NTS



19 WATER HEATER PIPING - WH-1
NTS



20 WATER HEATER PIPING - WH-2
NTS

PROFESSIONAL ENGINEER
REGISTERED
1995
STATE OF IOWA
KENT R. ANDERSON

Original Documents are held at
ENGINEERING OFFICE, 200 W. WARD STREET,
BOISE, ID 83702

KENT R. ANDERSON, P.E.
200 BROAD STREET
BOISE, ID 83702-4655
PHONE: (208) 343-4655
FAX: (208) 343-4658
http://www.cshqa.com

AGENCY REVIEW SET

PROJECT	DATE
21403.000	03-31-23
DRAWN	CHECKED
KRA	KRA
REVISED	

SHEET TITLE
PLUMBING DETAILS

SHEET
P71

ORIGINAL SHEET SIZE
36" x 48"

THERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION
CSHOA

427 Shoshone St N Twin Falls, ID

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE ITEM	MFR	BASIS OF DESIGN		TRIM			CONNECTIONS, IN				REMARKS	
			MODEL		ITEM	MFR	MODEL	CW	HW	W	V		
DS-1	DOWNSPOUT NOZZLE	J.R. SMITH	1770T		-	-	-	-	-	3	-	-	FURNISH WITH CAST BRONZE BODY AND FLANGE. INSTALL AT 18" ABOVE FINISHED FLOOR.
DS-2	DOWNSPOUT NOZZLE	J.R. SMITH	1770T		-	-	-	-	-	6	-	-	FURNISH WITH CAST BRONZE BODY AND FLANGE. INSTALL AT 18" ABOVE FINISHED FLOOR.
EWC-1	ADA ELECTRIC WATER COOLER (HI-LOW, BOTTLE FILLER)	ELKAY	LZSTL8W5LK	BACK SPLASH	ELKAY	1000004920	1/2	-	-	2	1-1/2	-	DUAL "HIGH-LOW" WALL MOUNTED DRINKING FOUNTAIN WITH STAINLESS STEEL TOP, BACK SPLASH, 1.1 GPM BOTTLE FILLER, AND 8 GPH CHILLED WATER CAPACITY. FURNISH WITH MOUNTING HANGER AND FLEXIBLE SAFETY BUBBLER HEADS. ELECTRICAL LOAD 6.0 FLA 115 VOLTS. 5 YEAR WARRANTY. ADA COMPLIANT (BARRIER-FREE).
EWC-2	ADA ELECTRIC WATER COOLER (HI-LOW, BOTTLE FILLER)	ELKAY	LZSTL8W5LK				1/2	-	-	2	1-1/2	-	DUAL "HIGH-LOW" WALL MOUNTED DRINKING FOUNTAIN WITH STAINLESS STEEL TOP, 1.1 GPM BOTTLE FILLER, AND 8 GPH CHILLED WATER CAPACITY. FURNISH WITH MOUNTING HANGER AND FLEXIBLE SAFETY BUBBLER HEADS. ELECTRICAL LOAD 6.0 FLA 115 VOLTS. 5 YEAR WARRANTY. ADA COMPLIANT (BARRIER-FREE).
FD-1	FLOOR DRAIN (ROUND)	J.R. SMITH	2005YA-P050-U				-	-	-	2	1-1/2	-	CAST IRON BODY WITH ADJUSTABLE STRAINER HEAD. FURNISH WITH ROUND TOP, VANDAL PROOF SCREWS, AND 1/2" CW TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN (ROUND, LIGATURE RESISTANT)	AQUA DESIGN	303070XN				-	-	-	2	1-1/2	-	STAINLESS STEEL BODY WITH ADJUSTABLE STRAINER HEAD. FURNISH WITH ROUND LIGATURE RESISTANT TOP, TAMPER RESISTANT SCREWS, AND 1/2" CW TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK (DEEP BODY - 12" GRATE)	J.R. SMITH	3160Y-12				-	-	-	3	2	-	FURNISH 12"x12"x10" DEEP FLOOR SINK WITH CAST IRON BODY AND ACID RESISTANT ENAMEL FINISH. FURNISH WITH 1/2" TOP GRATE AND BOTTOM DOME STRAINER.
HB-1	HOSE BIBB (WALL MTD - NON FREEZE)	WOODFORD	65				-	-	-	3/4	-	-	FREEZELESS WALL HYDRANT WITH CHROME FINISH WITH ANTI-SIPHON VACUUM BREAKER. FURNISH WITH RECESSED LOCKING BOX AND LOOSE TEE KEY OPERATOR.
HB-2	HOSE BIBB (ROOF MTD - NON FREEZE)	WOODFORD	RHY2-M5				-	-	-	1	-	-	FREEZELESS ROOF HYDRANT WITH VARIABLE FLOW PLUNGER, UNDER DECK FLANGE, BOOT SEAL, AUTO-DRAINING AND DOUBLE CHECK BACK FLOW PREVENTER.
LAV-1	ADA LAVATORY (PUBLIC, SQUARE WALL-MTD)	ZURN	Z5344	FAUCET	ZURN	ZB915-XL-F-HW6-CWB	1/2	1/2	2	1-1/2	-	-	WALL MTD VITREOUS CHINA LAVATORY WITH FLOOR MOUNTED SUPPORTS. FURNISH WITH FAUCET (4" CENTERS) WITH HARDWIRED POWERED SENSOR OPERATED VALVE, VANDAL PROOF STRAINER, P8000-HW6 POWER CONVERTER FOR POWERING UP TO 8 SENSOR FAUCETS, AND 0.5 GPM FLOW RESTRICTOR. INSULATE CW, HW, AND SS LINES FOR ADA COMPLIANCE. ADA COMPLIANT (BARRIER-FREE). FURNISH MV-1 AND SET OUTLET TO 105°F.
LAV-2	ADA LAVATORY (JUDGES, SQUARE WALL-MTD)	ZURN	Z5344	FAUCET	ZURN	Z81101-XL-3M	1/2	1/2	2	1-1/2	-	-	WALL-MOUNTED VITREOUS CHINA LAVATORY WITH FLOOR MOUNTED SUPPORTS. FURNISH WITH DECK MOUNTED CHROME PLATED FAUCET (4" CENTERS). LEVER HANDLES WITH VANDAL RESISTANT SCREWS, AND VANDAL RESISTANT 0.5 GPM AERATOR. INSULATE CW, HW, AND SS LINES FOR ADA COMPLIANCE. ADA COMPLIANT (BARRIER-FREE). PROVIDE MIXING VALVE MV-1 FOR HW INLET AND SET TO 105°F.
MV-1	MIXING VALVE (LAVATORIES, HAND SINKS)	WATTS	LFUSG-B				-	-	-	3/8	-	-	INSTALL VALVE UNDER FIXTURE AND SIZE ACCORDING TO FIXTURE WATER SUPPLY. SET TO 105°F. RE: MIXING VALVE DETAIL.
OD-1	OVERFLOW DRAIN	J.R. SMITH	1080Y-R-C-CID				-	-	-	3	-	-	CAST IRON OVERFLOW DRAIN WITH 2" EXTERIOR WATER DAM, COMBINATION FLASHING CLAMP/GRAVEL STOP, AND BOTTOM NO-HUB OUTLET. FURNISH WITH CAST IRON DOME, SUMP RECEIVER, AND UNDER DECK CLAMP.
OD-2	OVERFLOW DRAIN	J.R. SMITH	1080Y-R-C-CID				-	-	-	6	-	-	CAST IRON OVERFLOW DRAIN WITH 2" EXTERIOR WATER DAM, COMBINATION FLASHING CLAMP/GRAVEL STOP, AND BOTTOM NO-HUB OUTLET. FURNISH WITH CAST IRON DOME, SUMP RECEIVER, AND UNDER DECK CLAMP.
RD-1	ROOF DRAIN	J.R. SMITH	1010Y-R-C-CID				-	-	-	3	-	-	CAST IRON ROOF DRAIN WITH COMBINATION FLASHING CLAMP/GRAVEL STOP, AND BOTTOM NO-HUB OUTLET. FURNISH WITH CAST IRON DOME, SUMP RECEIVER, AND UNDER DECK CLAMP.
RD-2	ROOF DRAIN	J.R. SMITH	1010Y-R-C-CID				-	-	-	6	-	-	CAST IRON ROOF DRAIN WITH COMBINATION FLASHING CLAMP/GRAVEL STOP, AND BOTTOM NO-HUB OUTLET. FURNISH WITH CAST IRON DOME, SUMP RECEIVER, AND UNDER DECK CLAMP.
SA-1	SHOCK ARRESTER	J.R. SMITH	5005 THRU 5050				-	-	-	-	-	-	STAINLESS STEEL PRECHARGED HYDROTROL WATER HAMMER ARRESTER. SIZE ARRESTER FOR THE FIXTURES SERVED AND INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
SK-1	ADA DOUBLE BOWL SINK (BREAK / COFFEE / KITCHEN, COUNTER-MTD)	ELKAY	LRAD3321	FAUCET	ZURN	Z871C1-XL	1/2	1/2	2	1-1/2	-	-	COUNTER MOUNTED, 18 GAUGE TYPE 304 STAINLESS STEEL DOUBLE BOWL SINK WITH SELF-RIMMING EDGE, TWO (2) STRAINERS, AND THREE (3) HOLES (4" OC. INSIDE BOWL DIMENSIONS (EACH): 13-1/2" L, 16" W, 6-1/2" D. FURNISH WITH ADA COMPLIANT DECK-MOUNTED SWIVEL GOOSENECK FAUCET WITH LEVER HANDLES AND 2.2 GPM PRESSURE COMPENSATING AERATOR. ADA COMPLIANT (BARRIER-FREE).
SK-2	ADA SINK (LACT, COUNTER-MTD)	ELKAY	LRAD1720	FAUCET	ZURN	Z812B1-XL	1/2	1/2	2	1-1/2	-	-	COUNTER MOUNTED, 18 GA TYPE 304 STAINLESS STEEL SINGLE BOWL SINK WITH SELF-RIMMING EDGE, STRAINER, AND TWO (2) HOLES (4" OC. INSIDE BOWL DIMENSIONS: 14" L, 14" W, 6-1/2" D. FURNISH WITH ADA COMPLIANT DECK-MOUNTED SWIVEL GOOSENECK FAUCET WITH LEVER HANDLES AND 2.2 GPM PRESSURE COMPENSATING AERATOR. ADA COMPLIANT (BARRIER-FREE).
SK-3	ADA SINK (MEETING, COUNTER-MTD)	ELKAY	LRAD2219	FAUCET	ZURN	Z812B1-XL	1/2	1/2	2	1-1/2	-	-	COUNTER MOUNTED, 18 GA TYPE 304 STAINLESS STEEL SINGLE BOWL SINK WITH SELF-RIMMING EDGE, STRAINER, AND TWO (2) HOLES (4" OC. INSIDE BOWL DIMENSIONS: 18" L, 14" W, 6-1/2" D. FURNISH WITH ADA COMPLIANT DECK-MOUNTED SWIVEL GOOSENECK FAUCET WITH LEVER HANDLES AND 2.2 GPM PRESSURE COMPENSATING AERATOR. ADA COMPLIANT (BARRIER-FREE).
SS-1	SERVICE SINK (FLOOR-MTD)	ZURN	Z5850-D3-RG	FAUCET	ZURN	Z842M1	1/2	1/2	3	2	-	-	FLOOR (CORNER) MOUNTED ENAMELED CAST IRON SERVICE SINK. FURNISH WITH VINYL-COATED WIRE RIM GUARD, GRID DRAIN, 2 FT HOSE WITH WALL HOOK, AND WALL MOUNTED POLISHED CHROME FAUCET WITH TOP BRACE, STOPS, VACUUM BREAKER, 3/4" THREADED HOSE OUTLET, AND TAIL HOOK WITH WALL SUPPORT.
TP-1	TRAP PRIMER (AUTO-PNEUMATIC)	PPP	P2-500				-	-	-	1/2	-	-	INSTALL TRAP PRIMER ABOVE CEILING IN AN ACCESSIBLE LOCATION. FURNISH TRAP PRIMER WITH DISTRIBUTION UNIT (NO. DU-4) FOR PRIMING 2 FLOOR DRAIN TRAPS AND A LOCKABLE STAINLESS STEEL ACCESS COVER. SEE PLANS FOR APPLICABILITY.
TP-2	TRAP PRIMER (AUTO-ELECTRIC)	PPP	SMP-500-115V				-	-	-	1/2	-	-	ELECTRONIC PRIMER ASSEMBLY COMPLETE WITH TIME CLOCK, SOLENOID, AND VACUUM BREAKER. FURNISH TRAP PRIMER WITH DISTRIBUTION UNIT (NO. DU-4) FOR PRIMING 2 FLOOR DRAIN TRAPS AND A LOCKABLE STAINLESS STEEL ACCESS COVER. INSTALL TRAP PRIMER IN AN ACCESSIBLE LOCATION. ELECTRICAL REQUIREMENTS: 115 V, 1 PH, 60 HZ. SEE PLANS FOR APPLICABILITY.
UR-1	URINAL (WALL-MTD)	ZURN	Z5755	FLUSH VALVE	SLOAN	ROYAL 186 EES-1.0-HW	3/4	-	2	1-1/2	-	-	VITREOUS CHINA WALL MOUNTED URINAL WITH WASHOUT FLUSH ACTION. FURNISH WITH 1.0 GPF HARDWIRED POWERED SENSOR OPERATED FLUSH VALVE WITH METAL VALVE COVER, STAINLESS STEEL STRAINER, AND J.R. SMITH 0637 CARRIER SUPPORT.
UR-2	ADA URINAL (WALL-MTD)	ZURN	Z5755	FLUSH VALVE	SLOAN	ROYAL 186 EES-1.0-HW	3/4	-	2	1-1/2	-	-	VITREOUS CHINA WALL MOUNTED URINAL WITH WASHOUT FLUSH ACTION. FURNISH WITH 1.0 GPF HARDWIRED POWERED SENSOR OPERATED FLUSH VALVE WITH METAL VALVE COVER, STAINLESS STEEL STRAINER, AND J.R. SMITH 0637 CARRIER SUPPORT.
WB-1	WATER BOX (REFRIGERATOR ICE MAKER)	GUY GRAY	MB1A8				-	-	-	1/2	-	-	STEEL ICEMAKER BOX WITH WHITE POWDER COAT FINISH AND ONE QUARTER-TURN VALVE. MOUNT FIXTURE FLUSH TO WALL AT 48" AFF TO TOP OF BOX.
WC-1	WATER CLOSET (PUBLIC, FLOOR-MTD)	ZURN	Z5665-BWL1	FLUSH VALVE	SLOAN	ROYAL 111 EES-1.6-TMO-HW	1	-	3	2	-	-	VITREOUS CHINA, FLOOR MOUNTED, ADA WATER CLOSET WITH SIPHON-JET ACTION. FURNISH WITH 1.6 GPF HARDWIRED POWERED SENSOR OPERATED FLUSH VALVE WITH METAL VALVE COVER AND CHURCH NO. 9500CT SEAT.
WC-2	ADA WATER CLOSET (PUBLIC, FLOOR-MTD)	ZURN	Z5665-BWL1	FLUSH VALVE TRAP PRIMER	SLOAN	ROYAL 111 EES-1.6-TMO-HW VBF-72-A1	1	-	3	2	-	-	VITREOUS CHINA, FLOOR MOUNTED, ADA WATER CLOSET WITH SIPHON-JET ACTION. FURNISH WITH 1.6 GPF HARDWIRED POWERED SENSOR OPERATED FLUSH VALVE WITH METAL VALVE COVER, TRAP PRIMER DIVERTER, AND CHURCH NO. 9500CT SEAT. ADA COMPLIANT (BARRIER FREE). RE: TRAP PRIMER AT FLUSH VALVE DETAIL.
WC-3	ADA WATER CLOSET (JUDGES, FLOOR-MTD)	ZURN	Z5665-BWL1	FLUSH VALVE TRAP PRIMER	SLOAN	ROYAL 111-1.6 VBF-72-A1	1	-	3	2	-	-	VITREOUS CHINA, FLOOR MOUNTED, ADA WATER CLOSET WITH SIPHON-JET ACTION. FURNISH WITH 1.6 GPF MANUALLY OPERATED FLUSH VALVE ON OPEN SIDE, TRAP PRIMER DIVERTER, AND CHURCH SEAT NO. 9500CT. ADA COMPLIANT (BARRIER FREE). RE: TRAP PRIMER AT FLUSH VALVE DETAIL.
WC-4	ADA WATER CLOSET / LAVATORY (HOLDING CELL, FLOOR-MTD)	ACORN					1/2 (LAVATORY) 1 (WATER CLOSET)	1/2 (LAVATORY)	3	2	-	-	STAINLESS STEEL FLOOR MOUNTED LIGATURE RESISTANT COMBINATION LAV/TOILET ADA PENAL-WARE WATER CLOSET WITH REAR PLUMBING ACCESS. FURNISH WITH RIGHT OR LEFT TOILET ORIENTATION (VERIFY ORIENTATION AND QUANTITY). ON-FLOOR WALL OUTLET WASTE CONSTRUCTION. SINGLE TEMP METERING LAVATORY VALVE SET TO 105°F. BRASS BODY VALVE, 1.6 GPF MANUALLY OPERATED FLUSH VALVE ON OPEN SIDE, HYDRAULIC FLUSH VALVE. CLEANOUT WITH 2-3/8" OD COPING CONNECTION TO IN-HUB 4". PINNED CLEAN-OUT FLUG. TOILET FLOOR-TROL WITH AUTO-RESET, 10" TOILET WASTE EXTENSION, AND WALL SLEEVE. ADA COMPLIANT (BARRIER FREE).

REMARKS:
1. RE: ARCHITECTURAL DRAWINGS FOR ADA ACCESSIBLE FIXTURE APPLICABILITY, BARRIER CLEARANCE, AND MOUNTING HEIGHT.

GAS FIRED WATER HEATER SCHEDULE

MARK	ITEM	BASIS OF DESIGN		TYPE	LOCATION	PERFORMANCE				ELECTRICAL				CONNECTIONS		REMARKS				
		MFR	MODEL			STORAGE GAL	INPUT MBH	EFF %	RECOVERY GPH	TEMP RISE °F	VOLTAGE	PHASE	MCA	MOCP	CW IN		HW IN	OP. WEIGHT LBS		
WH-1	WATER HEATER	LOCHINVAR	SWR125N	GAS FIRED, DIRECT VENT	BUILDING STOR 10 305A	P71-19	NAT. GAS	65	125	96	145	100	120	1	-	15	1-1/2	1-1/2	1,110	1, 2, 3
WH-2	WATER HEATER	LOCHINVAR	SWR150N	GAS FIRED, DIRECT VENT	WATER ENTRANCE / PLUMBING ROOM M101	P71-20	NAT. GAS	90	150	96	175	100	120	1	-	15	1-1/2	1-1/2	1,360	1, 2, 3

REMARKS:
1. SET OPERATING TEMPERATURE AT 140°F.
2. INSTALL WITH HEAT TRAPS AT CW AND HW CONNECTIONS.
3. FURNISH WITH CONCENTRIC ROOF VENT KIT AND CONDENSATE NEUTRALIZATION KIT.

PLUMBING PIPING INSULATION SCHEDULE

System Or Service	Avg. Pipe Temp (°F)	Insulation Type	Pipe Location		Jacket (c)		Insulation Thickness					
			Indoor	Outdoor	All Svc.	Metal	Pipe Sizes (in.)					
							0.5-1.25	1.5-4	5-8	10-30		
Horizontal and Vertical Rainwater Conductors and Roof Drain Bodies	55	Mineral Fiber	X		X		1	1	1	1	1	1
				X		X	1	1	1	1	1	1
Condensate Drains for Air-Conditioning Equipment	60	Flexible Cellular	X	X(a)			0.5	0.5	0.5	0.5		
				X			0.5	-	-	-		
Hot and Recirculated Hot Water	105 to 140	Mineral Fiber	X	X(a)			0.5	-	-	-		
				X		X	1	1.5	1.5	1.5		
Handicapped Fixture Trap and Supply	40 to 140	Flexible Cellular	X				1	-	-	-		
				X(b)			0.5	-	-	-		
Domestic Cold and Trap Primer Water	40 to 50	Mineral Fiber	X		X		0.5	1	1	1		
				X		X	1	-	-	-		

a = Jacket required on outdoor piping.
b = Polyvinyl chloride (PVC) jacket required.
c = Protective jackets consisting of 0.016 inches 316 stainless steel shall be used for exposed (exterior) insulation systems and where exposed in interior mechanical equipment rooms, or other high traffic areas (up to 10 feet above finished floor). As an alternative, PVC jacket and fitting covers may be used in these interior spaces.

INSULATION SPECIFICATION:
Flexible Cellular: ASTM C 534, 5 pcf density, k = 0.27 Btu-in-h-ft² at 75 °F
Mineral Fiber: ASTM C 547, 4 pcf density, k = 0.23 Btu-in-h-ft² at 75 °F

WATER PUMP SCHEDULE

MARK	ITEM	BASIS OF DESIGN		TYPE	LOCATION	PERFORMANCE				ELECTRICAL				REMARKS	
		MFR	MODEL			FLOW GPM	TDH FT	TEMP. °F	MOTOR WATTS	VOLTS	PHASE	MCA			
RP-1	HOT WATER CIRCULATOR	GRUNDFOS	UP15-42F SPD 2	SYMPLEX	JAN STOR 10 304	P71-19		4	12	140	65	115	1	0.57	1, 2, 3, 4
RP-2	HOT WATER CIRCULATOR	GRUNDFOS	UP26-96F	SYMPLEX	WATER ENTRANCE/PLUMBING ROOM M101	P71-20		8	20	140	205	115	1	1.7	1, 2, 3, 4

REMARKS:
1. PUMP MUST BE LISTED FOR POTABLE WATER USE.
2. PROVIDE PUMP WITH ALL BRONZE CONSTRUCTION DESIGNED FOR DOMESTIC SERVICE.
3. FURNISH PUMP WITH AUTOMATIC TIME CLOCK AND 5°F DIFFERENTIAL AQUASTAT FOR PUMP CONTROL.
4. ALL PUMP CONTROL WIRING SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR.

EXPANSION TANK SCHEDULE

MARK	BASIS OF DESIGN	SERVICE	LOCATION	PERFORMANCE				CONNECTIONS				REMARKS		
				DETAIL REFERENCE	TYPE	TANK VOL. GAL	ACCEPT. FACTOR	CONNECT. IN	WEIGHT LBS	WATER IN	WASTE IN		FLOW RATE GPM	PRES. DROP PSI
ET-1	AMTROL ST-12	DOMESTIC HOT WATER	JAN STOR 10 304	P71-19	DIAPHRAGM	4.4	0.73	3/4	36					1, 2
ET-2	AMTROL ST-25V	DOMESTIC HOT WATER	WATER ENTRANCE/PLUMBING ROOM M101	P71-20	DIAPHRAGM	10.3	1.00	3/4	110					1, 2

REMARKS:
1. PROVIDE UNISTRUT BRACKET SECURED TO WALL WITH STRAP AROUND TANK.
2. PROVIDE ISOLATION VALVE (LESS HANDLE OR LOCK-SHIELD).

BACKFLOW PREVENTER SCHEDULE

MARK	ITEM	BASIS OF DESIGN		TYPE	SERVICE	DETAIL REFERENCE	CONNECTIONS		PERFORMANCE		REMARKS
		MFR	MODEL				WATER IN	WASTE IN	FLOW RATE GPM	PRES. DROP PSI	
BFP-1	BACKFLOW PREVENTER	WATTS	757-OSY	DOUBLE CHECK	EXISTING BUILDING SUPPLY	P71-7	2-1/2	-	68	7	1, 2
BFP-2	BACKFLOW PREVENTER	WATTS	757-OSY	DOUBLE CHECK	NEW BUILDING SUPPLY	P71-7	3	-	405	4	1, 2
BFP-3	BACKFLOW PREVENTER	WATTS	LF007Q-OSY	DOUBLE CHECK	ICE MACHINE SUPPLY	P71-8	1/2	-	2	6	1, 2
BFP-4	BACKFLOW PREVENTER	WATTS	LF007Q-OSY	DOUBLE CHECK	ICE MACHINE SUPPLY	P71-8	1/2	-	2	6	1, 2

REMARKS:
1. PROVIDE BRACKETS, SUPPORTS, AND PIPING REDUCERS AS NECESSARY.
2. FURNISH WITH OUTSIDE STEM AND YOKE RESILIENT SEATED GATE VALVES AND STRAINER ON INLET.

SEWAGE PUMP SCHEDULE

MARK	ITEM	BASIS OF DESIGN		TYPE	LOCATION	PERFORMANCE				CONNECTIONS		ELECTRICAL		REMARKS					
		MFR	MODEL			NO. OF PUMP MOTORS	FLOW / EA GPM	HEAD / EA FT	MOTOR RPM	SUCTON IN	DISCHARGE IN	PUMP MOTOR HP EACH	TOTAL		VOLTS	PHASE	MCA		
SP-1	SEWAGE PUMP	WEIL	2516	DUPLEX GRINDER PUMP	10 206A	P71-17		2	40	30	3,450	2	2	5	10	460	3	7.5	1, 2, 3

REMARKS:
1. FURNISH A DUPLEX GRINDER PUMP PACKAGE COMPLETELY FACTORY PRE-ASSEMBLED INCLUDING A 36" DIAMETER X 120" HIGH FIBERGLASS BASIN WITH ANTI-FLOATATION FLANGE AND CURB RING, AIR TIGHT STEEL COVER (NO. 8804K1328) WITH TWO 2" WASTE AND ONE 3" VENT FLANGE WITH A SINGLE HINGED ACCESS DOOR AND GASTIGHT SEALANT (NO. 8800K708), AND TWO GRINDER PUMPS WITH STAINLESS STEEL LIFTING CABLE AND IMPELLER (CURVE NO. 650).
2. FURNISH PUMP PACKAGE WITH A COMPLETE GUIDE RAIL, REMOVAL SYSTEM WITH DUPLEX BCB SYSTEM (NO. 2613K702), DISCHARGE FLANGE KIT FLOOR ELBOW (NO. 2613K102), SUB BASE (NO. 2613K501), LEVEL CONTROL LIFTING STATION (NO. 2613K801), AND 2" DUPLEX WASTEWATER VALVE ASSEMBLY (NO. 2616K104).
3. FURNISH PUMP PACKAGE WITH A DUPLEX NEMA 4X ALTERNATING THREE PHASE 6.3-10.0 AMP CONTROL PANEL (NO. W-6150-1-100) WITH AUDIBLE AND VISUAL HIGH WATER LEVEL ALARM, AND TETHERED LEVEL CONTROL FLOAT SWITCH WITH FOUR MECHANICAL FLOATS (NO. 8233K1016) 60 FT CORD, AND HMA TYPE 4X RED FLASHING DONE LIGHT ON TOP OF PANEL (NO. 8100K7102).



Digitally signed by Kent Anderson
DN: cn=Kent Anderson, o=Professional Engineer, ou=State of Idaho, email=kent@csghoa.com, c=US
Original document's file hash at CSHPW, INC OFFICE, 200 BROAD STREET, BOISE, ID 83702