				_
А	AIR	LAV	LAVATORY	
AAV	AUTOMATIC AIR VENT	LF	LINEAL FEET	-
ABV ADA	ABOVE AMERICANS WITH DISABILITIES ACT			_
AD	ACCESS DOOR	MBH	THOUSAND BTUH	
AFF	ABOVE FINISHED FLOOR	MU	BOILER MAKEUP WATER	-
AFG AHAP	ABOVE FINISHED GRADE AS HIGH AS POSSIBLE	MOD MPG	MOTOR OPERATED DAMPER MEDIUM PRESSURE GAS	
AL	ALUMINUM	MTD	MOUNTED	-
	AMPERES			
APD ARCH	AIR PRESSURE DROP ARCHITECTURAL			-
/ ((0))		NC N. C.	NOISE CRITERIA NORMALLY CLOSED	_
BDD	BACKDRAFT DAMPER	N.C.	NON POTABLE	
BLDG	BUILDING	N. O.	NORMALLY OPEN	-
BI	BACK IRON	NTS	NOT TO SCALE	
BOD	BOTTOM OF DUCT			-
BTUH	BRITISH THERMAL UNIT/HOUR	O/A	OUTSIDE AIR	_
		OC	ON CENTER	
CA		OD	OVERFLOW DRAIN	_
CD CAP	CONDENSATE CAPACITY	ON OW	OVERFLOW NOZZLE OILY WASTE	
CFM	CUBIC FEET PER MINUTE		OILT WAOTE	-
CIRC	CIRCULATING			
CLG	CEILING	PD	PRESSURE DROP	-
CONT	CONTINUED	PE PG	POLYETHYLENE PIPE PROPYLENE GLYCOL	
CO CU	CLEANOUT COPPER	PG	PHASE	-
CW	COLD WATER	PSI	POUND PER SQUARE INCH	
CLW	CLEAN WATER(AFTER RO FILTER	PSIG	POUNDS PER SQUARE INCH GAUGE	-
DIA	DIAMETER			
dB DEG	DECIBELS DEGREE	R/A RPM	RETURN AIR REVOLUTIONS PER MINUTE	-
DIM	DIMENSION	REM	RAIN LEADER	
DN	DOWN			-
DWG	DRAWING			_
		S/A	SUPPLY AIR	
E/A	EXHAUST AIR	SGS SGR	SNOWMELT GLYCOL SUPPLY SNOWMELT GLYCOL RETURN	-
EAT EFF	ENTERING AIR TEMPERATURE EFFICIENCY	SP	STATIC PRESSURE	
EXH	EXHAUST	SQ	SQUARE	
EWT	ENTERING WATER TEMPERATURE	SS	SANITARY SEWER	
ESP EGT	EXTERNAL STATIC PRESSURE ENTERING GLYCOL TEMPERATURRE			
EGT	ENTERING GLYCOL TEMPERATORRE			
		TEMP TOD	TEMPERATURE TOP OF DUCT	
		TOD	TOP OF SLAB	-
FT FPM	FEET FEET PER MINUTE	TP	TRAP PRIMER	_
FC	FORWARD CURVE	TSP	TOTAL STATIC PRESSURE	
F	FARENHEIT	TSTAT TW	THERMOSTAT TEMPERED WATER	-
FCO	FLOOR CLEANOUT	TWC	TEMPERED WATER	
FD FDC	FIRE DAMPER FIRE DEPARTMENT CONNECTION	TYP.	TYPICAL	-
FLR	FLOOR			
		V	VENT	-
		VEL	VELOCITY	-
GA GPH		V.T.R.	VENT THRU ROOF	
GPH GAL	GALLONS PER HOUR GALLONS			-
GPM	GALLONS PER MINUTE	W/	WITH	
		W/O	WITHOUT	-
		W	WASTE (SANITARY SEWER)	
HD HW	HEAD HOT WATER	WCO WG	WALL CLEAN OUT WATER GAUGE	-
HWC	HOT WATER HOT WATER CIRCULATION	WHA	WATER GAUGE WATER HAMMER ARRESTOR	
HPS	HIGH PRESSURE STEAM	WPD	WATER PRESSURE DROP	
HP	HORSEPOWER			-
		YCO	YARD CLEAN OUT	
IN	INCHES			-

SANITARY SEWER VENT PIPING _____ DOMESTIC COLD WATER _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ DOMESTIC HOT WATER _____ PIPE UP PIPE DOWN TEE UP TEE DOWN CAP UNION DIRECTION OF FLOW BALL VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE THERMOSTATIC MIXING VALVE SWING CHECK VALVE SPRING CHECK VALVE BALANCE/SHUT-OFF VALVE PRESSURE REDUCING VALVE PRESSURE/TEMP RELIEF VALVE VB SPILL PROOF VACUUM BREAKER HOSE BIB WATER HAMMER ARRESTOR _____ PUMP END-OF-LINE CLEANOUT FILTER -(F)— METER (M)— PIPE GUIDE PIPE ANCHOR THERMOMETER PRESSURE GAUGE W/ ISO COCK

 $+ \bigcirc +$

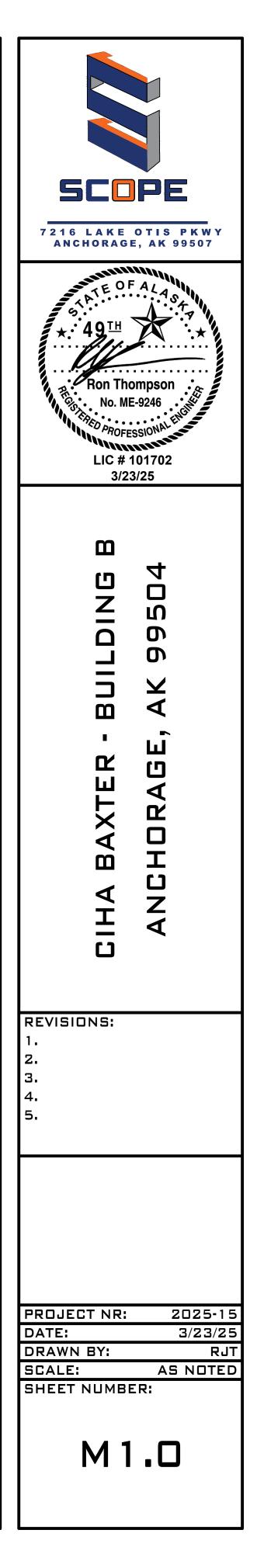
TH

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STRAINER WITH BLOWDOWN

\bigotimes	FLOOR OR YARD CLEANOUT
	FLOOR DRAIN
T	THERMOSTAT
TS	DOC TEMPERATURE SENSOR
S	SENSOR
E	EMERGENCY SHUT-OFF SWITCH
	SUPPLY/COMBUSTION AIR
	EXHAUST AIR
	ROUND DUCT
	VOLUME DAMPER
	MOTORIZED CONTROL DAMPER
	ACOUSTIC LINED DUCTWORK
12/24	DUCT SIZE
	EXTERNALLY INSULATED DUCT
	TURNING VANES
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCT
	ACCESS DOOR
	POINT OF CONNECTION

PROJECT INFORMATION: NEW 9 UNIT APARTMENT COMPLEX



GENERAL NOTES

PROJECT SHALL BE CONSTRUCTED TO THE 2021 UNIFORM PLUMBING CODE (UPC), 2021 INTERNATIONAL FUEL GAS CODE (IFGC), INTERNATIONAL MECHANICAL CODE 2021 AS ADOPTED AND AMENDED BY THE STATE OF ALASKA, THE INTERNATIONAL MECHANICAL CODE 2021 CHAPTERS 1-15 AND APPENDIX A, ARE ADOPTED BY REFERENCE TO REGULATE ALL OCCUPANCIES AND BUILDINGS, EXCEPT THAT THE IMC IS REVISED BY DELETING ALL THE REFERENCES TO THE INTERNATIONAL PLUMBING CODE, AND REPLACING WITH PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED FROM TIME TO TIME (WHICH MAY BE FOUND AT HTTPS://WWW.AKLEG.GOV/BASIS/AAC.ASP#8.63.010).

SHEET METAL WORK SHALL BE DONE IN ACCORDANCE WITH SMACNA STANDARDS.

ALL PIPING, DUCTWORK AND EQUIPMENT SHALL BE INSTALLED FOR SEISMIC EVENT IN ACCORDANCE WITH THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE AND ASCE 7.

CONTRACTOR SHALL PROVIDE THE OWNER WITH OPERATING AND MAINTENANCE MANUALS, TO INCLUDE MANUFACTURER'S SPECIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT, AND SCHEMATIC DIAGRAMS OF CONTROL SYSTEMS AS-BUILT, AS WELL AS A SOURCE OF SUPPLY FOR SPARE PARTS AND SERVICE.

PROVIDE ACCURATE PROJECT RECORD AS-BUILT DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.

PROVIDE CONTROL SYSTEM TO ACCOMPLISH THE SEQUENCE OF OPERATIONS. PROVIDE ALL CONTROLLERS, TEMPERATURE SENSORS, THERMOSTATS, CONTROL VALVES, CONTROL DAMPERS, ELECTRIC ACTUATORS, TRANSFORMERS, WIRING AND ASSOCIATED COMPONENTS. INSTALL ALL WIRING IN ACCORDANCE WITH THE NEC. TEST ALL SYSTEMS, VERIFY ALL SYSTEMS OPERATE AS SPECIFIED IN SEQUENCE OF OPERATIONS, AND RECORD INITIAL SETTING AND OPERATING SET-POINTS IN O&M MANUALS. PROVIDE OPERATOR INTERFACE TO ALLOW FOR LOCAL SCHEDULE ADJUSTMENT, SET-POINT ADJUSTMENT, AND HVAC MONITORING. PROVIDE TAMPERPROOF THERMOSTAT GUARDS IN ALL PUBLIC AREAS. PROVIDE CONTROL SYSTEM DEMONSTRATION TO OWNERS REPRESENTATIVE(S) PRIOR TO SUBSTANTIAL COMPLETION.

PROVIDE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE EQUIPMENT. PROVIDE ACCESS DOORS FOR ALL EQUIPMENT INSTALLED IN CONCEALED LOCATIONS.

INSTALL ALL EQUIPMENT WHERE SHOWN IN PLANS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE MISCELLANEOUS APPURTENANCES, ACCESSORIES, SUPPORTS AND CONTROL CONNECTIONS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES

PROVIDE ISOLATION VALVES AT EACH FIXTURE, AND GAS ISOLATION VALVE AT EACH GAS APPLIANCE. BRONZE TWO PIECE BODY, FULL PORT, FORGED BRASS, CHROME PLATED BALL, TEFLON SEATS AND STUFFING BOX RING, BLOW-OUT PROOF STEM, LEVER HANDLE, SOLDER OR THREADED ENDS.

ALL HANGERS AND SUPPORTS SHALL BE INSTALLED IN ACCORDANCE WITH 2021 UPC, INSTALLED AS PER THE MANUFACTURES INSTRUCTIONS. PROVIDE SEISMIC SUPPORT FOR ALL PIPING SYSTEMS IN ACCORDANCE WITH IBC 2021.

INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING SIZE 1.5" AND LARGER, COMPLETE WITH VAPOR BARRIER JACKET AND PLASTIC COVER FOR FITTINGS. INSULATE PLUMBING VTR'S DOWN 3" FROM ROOF WITH 1" FIBERGLASS PIPE INSULATION. INSULATE RAINWATER ROOF DRAIN PIPING EXCEPT VERTICAL EXPOSED RAINWATER PIPING IN SERVICE AREAS. INSULATE RAINWATER ROOF DRAIN PIPING WITH 1" FIBERGLASS INSULATION, COMPLETE WITH VAPOR SEAL ON ALL PIPING ABOVE GRADE. INSULATE SUPPLY AND WASTE PIPING AT ADA ACCESSIBLE LAVATORIES WITH CELLULAR FOAM, PREFORMED FOR P-TRAP AND HOT WATER ANGLE STOP AND SUPPLY TUBE.

NATURAL GAS PIPING

STEEL PIPE: ASTM A53, SCHEDULE 40 BLACK FITTINGS: ASME B16.3 MALLEABLE IRON OR ASTM A234/A234M FORGED STEEL WELDING TYPE. JOINTS: NFPA 54 SCREWED FOR LOW PRESSURE PIPE TWO INCHES AND UNDER OR MEDIUM PRESSURE OUTSIDE OF BUILDINGS, ANSI B31.1 WELDED FOR PIPE OVER 2" OR FOR MEDIUM

PRESSURE INSIDE OF BUILDINGS.

GENERAL NOTES

WASTE AND VENT PIPING -ABS PIPE;ASTM D2751. FITTINGS: ABS, JOINTS:ASTM D2235, SOLVENT WELD.

DOMESTIC WATER PIPING (CW/HW)

COPPER TUBING	, ASTM B88, TYPE L
FITTINGS:	ASME B 16.18 CAS
	B16.22 WROUGHT
JOINTS:	ASTM B32, LEAD F
	SOLUBLE FLUX OF
	SYSTEM.

CPVC TUBING: 1/2" TO 2" FLOW GUARD GOLD CPVC: ASTM D2846, NSF LISTED, SDR 11, FITTINGS: ASTM F 439 SOLVENT WELDED SOCKET TYPE 2" AND LARGER CORZAN CPVC: ASTM F441, NSF LISTED ,SCHEDULE 80

PEX TUBING:

CROSS-LINKED HIGH DENSITY POLYTHENE. TUBING SHALL BE PRODUCED BY USING THE SILANE METHOD OF CROSS-LINKING AND SHALL MEET THE DIMENSION AND PERFORMANCE SPECIFICATIONS OF ASTM F876/F877 AND CSA B137.5. TUBING SHALL ALSO COMPLY WITH ANSI/NSF 61 AS SUITABLE FOR USE WITH POTABLE WATER. PEX PIPING NOT TO BE INSTALLED WITHIN FIRST 18" WHERE PIPING CONNECTS TO A WATER HEATER. UPC 604.13

CLEANOUTS TO BE PROVIDED AS PER UPC 707. CLEANOUTS TO BE GAS AND LIQUID TIGHT. HORIZONTAL DRAINAGE PIPING TO BE PROVIDED WITH CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING THAT IS 100 FT IN TOTAL DEVELOPED LENGTH SHALL ALSO BE PROVIDED WITH A CLEANOUT AS WELL AS EVERY 100 FT OF PIPING OR PIPING THAT HAS AN AGGREGATE CHANGE OF DIRECTION EXCEEDING 135 DEG. EXCEPTIONS ARE ROVIDED IN UPC 707 AS WELL.

FLANGES UNIONS, AND COUPLINGS- 150 PSIG MALLEABLE IRON UNIONS FOR THREADED FERROUS PIPING; BRONZE UNIONS FOR COPPER PIPE, SOLDERED JOINTS.

WATER HAMMER ARRESTORS SHALL BE INSTALLED AS PER UPC SECTION 609.10 AND AS PER PDI WH-201-2006 IN ACCESSIBLE LOCATIONS OR PROVIDE ACCESS DOORS AS REQUIRED, MANUFACTURED BY J.R. SMITH OR APPROVED EQUAL.

CONTROL VALVES - BRONZE BODY AND SEAT WITH STAINLESSSTEEL STEM AND SCREWED ENDS. ANSI CLASS 250 BODY RATING. SUITABLE FOR FLUID TEMPERATURES OF UP TO 300 DEG. F CONTROL VALVES SHALL BE CORRECTLY SELECTED FOR SERVICE AND FLOW OF SYSTEM SERVED. A PRESSURE DROP OF 3 PSI SHALL BE USED TO AS A SIZING GUIDLINE FOR

MODULATING VALVES, TWO POSITION SHUT-OFF VALVES SHALL BE LINE SIZE. PROVIDE ELECTRONIC ACTUATORS WITH SUFFICIENT CLOSE-OFF PRESSURE TO CLOSE-OFF AGAINST SYSTEM PUMP HEAD.

HIGH EFFICIENCY BOILER B-1 REQUIRES THE CONDENSATE TO BE PROCESSED THROUGH A FACTORY BUILT CONDENSATE NEUTRALIZER AND PIPED TO AN APPROVED RECEPTICLE PER IFGC 307.2 PLUS LOCAL AMENDMENT.

GENERAL NOTES

L, HARD DRAWN. AST BRONZE OR ASME COPPER, FREE SOLDER, WATER OR PRO PRESS THE CONTRACTOR SHALL BALANCE THE AIR DUCT SYSTEMS ACCORDING TO NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) RECOMMENDED PROCEDURES AND CONTRACT DOCUMENTS, AND TO THE SATISFACTION OF THE OWNER. AIR FLOW'S ARE TO BE BALANCED TO WITHIN 10% OF INDICATED FLOWS, PER AMERICAN AIR BALANCING COUNCIL(AABC) RECOMMENDED METHODS,

PROVIDE GALVANIZED SHEET METAL WHERE CALLED OUT ON THE PLANS. SEAL ALL DUCT SEAMS AND JOINTS AIR TIGHT. INSTALL VOLUME DAMPERS AT EACH DUCT BRANCH AS NEEDED TO ENSURE PROPER BALANCING. ALL SHEET METAL WORK TO BE CONSTRUCTED, INSTALLED, TESTED, SUPPORTED AND BALANCED IN ACCORDANCE WITH SMACNA STANDARDS. CONSTRUCT T'S, BENDS, AND ELBOWS WITH RADIUS OF NOT LESS THAN 1-1/2 TIMES WIDTH OF DUCT ON CENTERLINE. IF 1-1/2 TIMES WIDTH CANNOT BE ACHEIVED AND WHERE RECTANGULAR ELBOWS ARE USED, CONSTRACTOR SHALL INSTALL AIR FOIL TURNING VANES. WHERE ACOUSTICAL LINING IS REQUIRED. **PROVIDE TURNING VANES OF PERFORATED METAL WITH GLASS** FIBER INSULATION. WELD IN PLACE. TRANSFORM DUCT SIZE GRADUALLY, NOT EXCEEDINGLY 15" DIVERGENCE AND 30" CONVERGENCE. PROVIDE STANDARD 45 DEGREE LATERAL WYE TAKEOFFS, UNLESS OTHERWISE INDICATED WHERE 90 DEGREE CONICAL TEE CONNECTIONS MAY BE USED. ALL ROUND **DUCTWORK SHALL BE SPIRAL, NO EXCEPTIONS.**

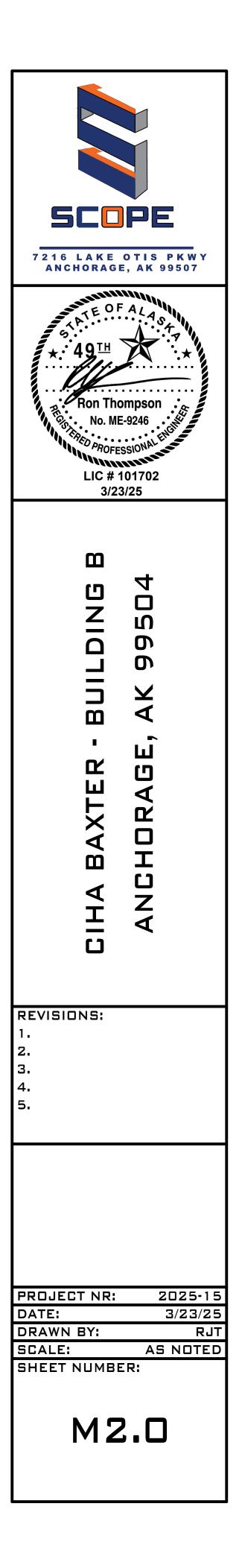
INSULATED FLEXIBLE DUCTS: FABRIC SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE OR FLAT STEEL BANDS; RATED TO 2 INCHES WG POSITIVE AND 1.5 INCHES WG NEGATIVE FOR LOW PRESSURE DUCTS AND 15 INCH WG POSITIVE OR NEGATIVE FOR MEDIUM HIGH PRESSURE DUCTS WRAPPED WITH FLEXIBLE GLASS FIBER INSULATION, ENCLOSED BY SEAMLESS ALUMINUM PIGMENTED PLASTIC VAPOR BARRIER JACKET; MAXIMUM 0.23 K VALUE AT 75 DEG F.

CONTROL DAMPERS - MULTI-BLADE, OPPOSED BLADE ACTION, CONTROL DAMPERS OF EXTRUDED ALUMINUM, WITH AIR FOIL TYPE BLADES OF MAXIMUM SIX INCH WIDTH, BLADES POSITIONED ACROSS SHORT AIR OPENING DIMENSION ACROSS SHORT AIR OPENING DIMENSIONS, FIELD REPLACEABLE EXTRUDED VINYL SEALED EDGES, LINKED TOGETHER IN RATTLE FREE MANNER, NON-CORROSIVE MOLDED SYNTHETIC BEARINGS, SQUARE OR HEXAGONAL AXLES FOR POSITIVE LOCKING CONNECTION TO BLADES AND LINKAGE, DOCUMENTED LEAKAGE RATE NOT TO EXCEED 6 CFM/SQ. FT. AT 4 INCH W.G.

DUCT SOUND LINING - FLEXIBLE GLASS FIBER; ANSI/ASTM C1071; K' VALUE OR 0.24 AT 75 DEG F; COATED AIR SIDE FOR MAXIMUM 5,00 FT./MIN AIR VELOCITY, UL LISTED ADHESIVE GALVANIZED STEEL PINS.

ALL DUCTWORK MUST BE INSULATED TO A MINIMUM OF 10' INSIDE OF EXTERIOR WALL IF DUCT IS CONNECTED WITH OUTSIDE AIR OPENING.

DUCTWORK - 1" THICK FLEXIBLE INSULATION; AVERAGE THERMAL CONDUCTIVITY K EQUALS 0.24 AT 75 DEGREES F MEAN TEMPERATURE AT 1.5 PCF DENSITY. ATSM. FACTORY APPLIED APOR BARRIER FLAME RETARDENT FOIL-SCRIM-KRAFT (FSK) OR ALL SERVICE JACKET AND TAPE WITH PERMEABILITY RATING EQUALS 0.02 PERMS. ASTM 96. PROVIDE 1" FIBERGLASS INSULATION WITH A COMPLETE FACTORY APPLIED VAPOR BARRIER JACKET ON ALL EXHAUST DUCTWORK WITHIN 10' OF EXTERIOR OPENINGS AND MEDIUM PRESSURE SUPPLY DUCTWORK. INSULATE OUTSIDE AIR DUCTWORK WITH 2" RIGID EXTERIOR FSK DUCT WRAP AND CANVAS FINISH.



				PLU	JMI	BIN	G FIX	FURE	SCH	EDUL
SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	CW	HW	WASTE	VENT	TRAP	COLOR
WC-1	PROFLO	PF1403T	WATER CLOSET	FLOOR	1/2"		3"	2"		WHITE
LAV-1	KOHLER	K-2196	LAVATORY	COUNTER	1/2"	1/2"	1-1/2"	1-1/4"	1-1/2"	WHITE
LAV-2	AMERICAN STANDARD	DECLYN	LAVATORY	COUNTER	1/2"	1/2"	1-1/2"	1-1/4"	1-1/2"	WHITE
FD-1	J.R. SMITH	2005	FLOOR DRAIN	FLOOR			3"	2"	3"	
HB-1	WOODFORD	B65-CH	KITCHEN SINK	DROP IN	3/4"					CHROME
TUB-1	STERLING	ENSEMBLE	TUB KIT	FLOOR	1/2"	1/2"	2"	1-1/2"	2"	WHITE
DW-1	FRIGIDAIRE	FFCD2413US	DISHWASHER	FLOOR		1/2"				SS
WB-1	IPS CORP	GUY GREY	WASHER BOX	WALL	1/2"	1/2"	2"	1-1/2"	2"	WHITE
KS-1	ELKAY	DAYTON	KITCHEN SINK	DROP IN	1/2"	1/2"	2"	1-1/2"	2"	SS

	BOILER SCHEDULE									
SYMBOL	MANUFACTURER	MODEL	BTU INPUT (MBH)	BTU OUTPUT (MBH)	AFUE %					
B-1	LOCHINVAR	WHB285	285	264	95	LOCHINVAR KNIGHT RATE, 2.4 FT HD., 1-1 APPROVED EQUAL.				

PUMP SCHEDULE									
SYMBOL	MANUFACTURER	MODEL	GPM	FT HD	VOLTS/HZ/PHASE	SPECIFICATIONS			
BSP-1	GRUNDFOS	UPS26-99F	40	2.4	230V/60HZ/1Ø	BOILER CIRC PUMP, GRUNDFOS			
WSP-1	GRUNDFOS	UPS15-58FC	14	6.5	230V/60HZ/1Ø	HOT WATER HEATER CIRCULAT PUMP, GRUNDFOS OR APPROV			
BPP-1	GRUNDFOS	MAGNA1 40-120 GF	55	18	120V/60HZ/1Ø	PRIMARY HEATING LOOP PUM OR APPROVED EQUAL			
HWCP-1	GRUNDFOS	UPS15-55 SFC	1	15	120V/60HZ/1Ø	HOT WATER RECIRC PUMP, GR APPROVED EQUAL			

	WATER HEATER SCHEDULE									
SYMBOL	MANUFACTURER	MODEL	STORAGE (GAL)	BTU INPUT (MBH)	RECOVERY @ 100 DEG RISE	SPECIFICAT				
WH-1	LOCHINVAR	SIT119	113	199	308 GPH	LOCHINVAR STAINLESS STEEL II 14.0 GPM FLOW RATE, 6.5 FT H EQUAL.				

EXAUST FAN SCHEDULE							
SYMBOL	MANUFACTURER	MODEL	WATTS	ESP (IN WC)	CFM	VOLTS/HZ/PHASE	SPECIFICAT
EF-1	PANASONIC	FV-0510VS1	4.4	0.1	50	120V/60HZ/1Ø	WHISPERFITEZ FAN 50/80/ OR APPROVED EQUAL

	EXPANSION TANK SCHEDULE								
SYMBOL	MANUFACTURER	MODEL	FUNCTION	TANK VOLUME	SPECIFICATIONS				
ET-1	THERM-X-TROL	ST-5C	HOT WATER	2 GALLONS	MAX OPERATIING TEMPERATURE MAX WORKING PRE PRECHARGE PRESSURE 55 PSIG. OR APPROVED EQUAL				
BET-1	THERM-X-TROL	AX-15(V)	BOILER	8.6 GALLONS	MAX OPERATIING TEMPERATURE MAX WORKING PRE PRECHARGE PRESSURE 55 PSIG. OR APPROVED EQUAL				

FRESH AIR INLET SCHEDULE						
SYMBOL MANUFACTURER MODEL SIZE USE SPECIFICATIONS						
FAI-1	THERMA-STOR	FRESH	70	OA	FRESH 80 AIR INLET OR APPROVED EQUAL	

BASEBOARD SCHEDULE						
SYMBOL	MANUFACTURER	MODEL	ELEMENT TYPE	FINS / FT	BTU/FT/HR	SPECIFICATIONS
BB-1	SLANT FIN	MULTI PAK 80	Н3	55	730	83-A2 BASEBOARD (H-3 ELEMENT IN 80) ENCLOSURE), ENCLOSURE TO BE MINIM OF 12" LONGER THAN ELEMENT OR APPROVED EQUAL

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LE	
R	SPECIFICATIONS
E	TWO PIECE TOILET, ELONGATED BOWL, 17" RIM HEIGHT, ICC/ANSI A117.1
E	ADA REQUIREMENTS OR APPROVED EQUAL.
Έ	PENNINGTON DELTA 501-HDF FAUCET, GRID STRAINER , VANDAL RESTRAINT
	1.5 GPM AERORATOR, MUST MEET ADA IF ADA UNIT OR APPROVED EQUAL.
	AMERICAN STANDARD 0321026.020 DECLYN 18 1/2" X 17" WHITE VITREOUS
Έ	CHINA WALL-MOUNT LAVATORY WITH 4" CENTERSET AND WALL HANGER OR
	APPROVED EQUAL. FLOOR DRAIN, ROUND TOP TRAP PRIMER CONNECTION, OR APPROVED
	EQUAL
	WOODFORD MODEL B65-CH FOR HOSE BI-EXTERIOR CHROME, FREEZE-LESS,
ИE	ANTI-SIPHON VACUUM BREAKER, METAL HANDLE, LOCKING WALL BOX, OR
	APPROVED EQUAL.
Έ	ENSEMBLE MEDLEY 60 IN. X 31.125 IN. X 74.25 IN. 4-PIECE TONGUE AND
L	GROOVE TUB WALL IN WHITE OR APPROVED EQUAL
	FRIGIDAIRE 60-DECIBEL FILTRATION BUILT-IN DISHWASHER (STAINLESS STEEL)
	(COMMON: 24-IN; ACTUAL: 24-IN) ENERGY STAR, OR APPROVED EQUAL
E	IPS CORP GUY GRAY WASHER BOX, OR APPROVED EQUAL
C	DAYTON DROP-IN STAINLESS STEEL 33 IN 3 HOLE DOUBLE BOWL SINK, OR
	APPROVED EQUAL
	FIRE TUBE BOILER, 27.0 GPM FLOW
	/4" CONNECTIONS, 3" VENT, OR
– – L.	
NS	
FOS	S OR
	P, GRUNDFOS
GRI	JNDFOS OR
· A TI	
	ONS IDIRECT WATER HEATER,
	D. OR APPROVED
ATI	ONS
0/1	.00 CFM, 0.09 A,
'RES JAL	SSURE 150 PSIG,

PRESSURE 150 PSIG, AL

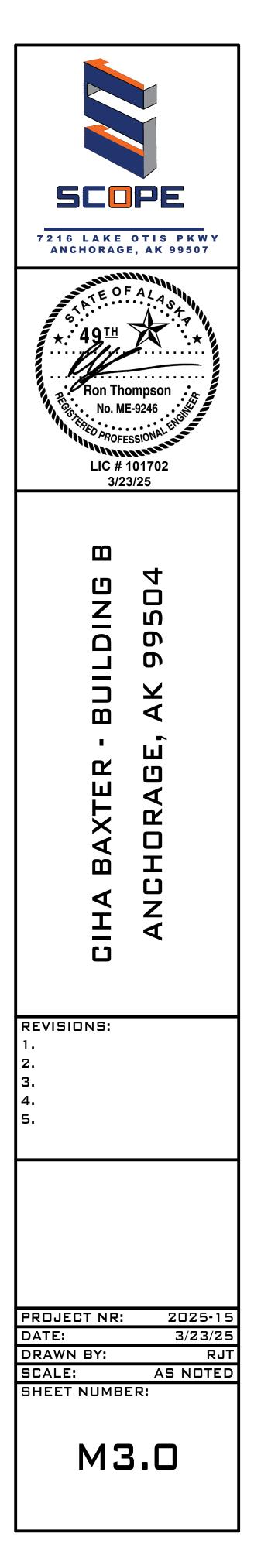
30D MUM

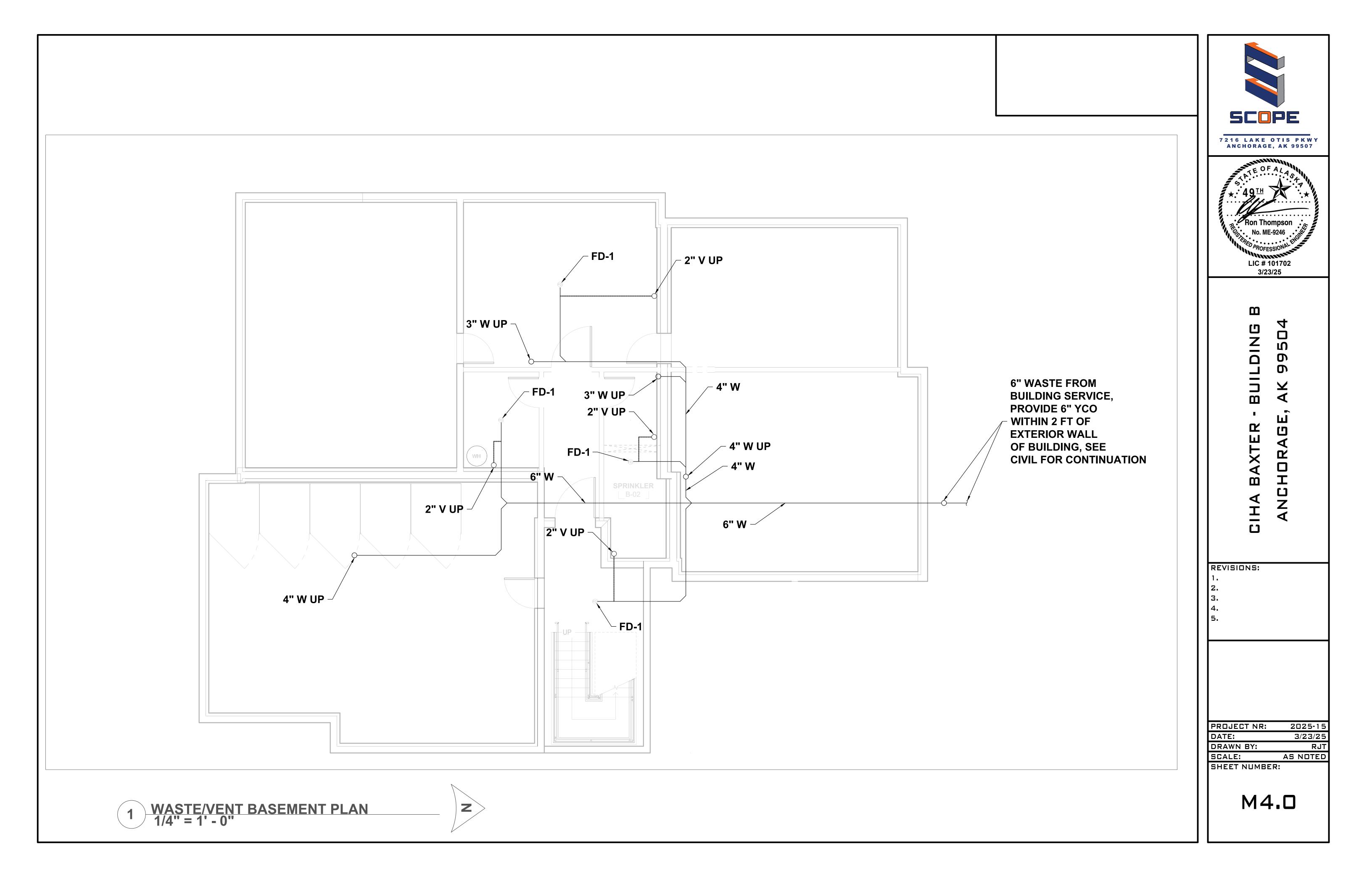
EF-1: BATHROOM ROOM EXHAUST. FAN IS EITHER ON OF OFF BASED UPON ROOM OCCUPANCY. IF LIGHT IS ON FAN IS ON IF LIGHT IS OFF FAN IS OFF.

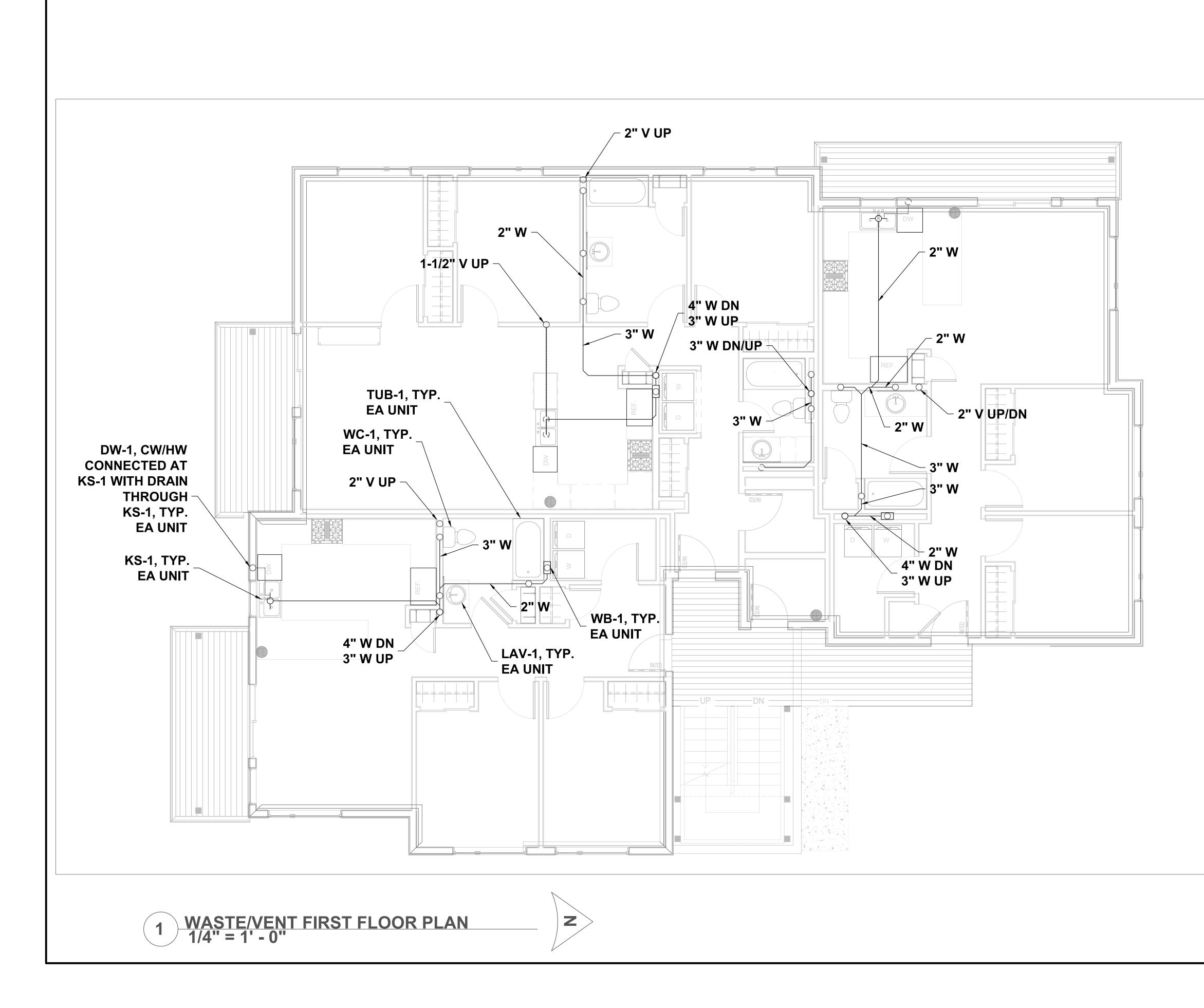
WH-1: WATER HEATER TO HAVE INTEGRAL AQUASTAT AND SHALL OPERATE TO MAINTAIN 120 DEG F SETPOINT FOR FIXTURES.

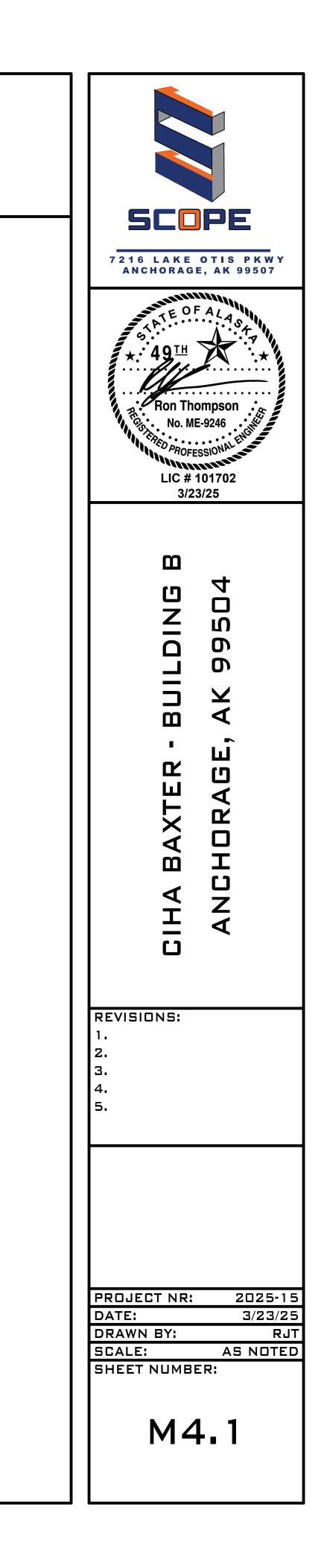
B-1 AND WH-1 SYSTEM TO BE CONTROLLED WITH BOILER SYSTEM CONTROLS WITH HOT WATER PRIORITY PUMPS CONTORLED THROUGH BOILER SYSTEM AS PER MANUFACTURERS **RECOMMENDATION. ROOMS TO HAVE THERMOSTATS TO CONTROL** ROOM SET TEMPERATURE.

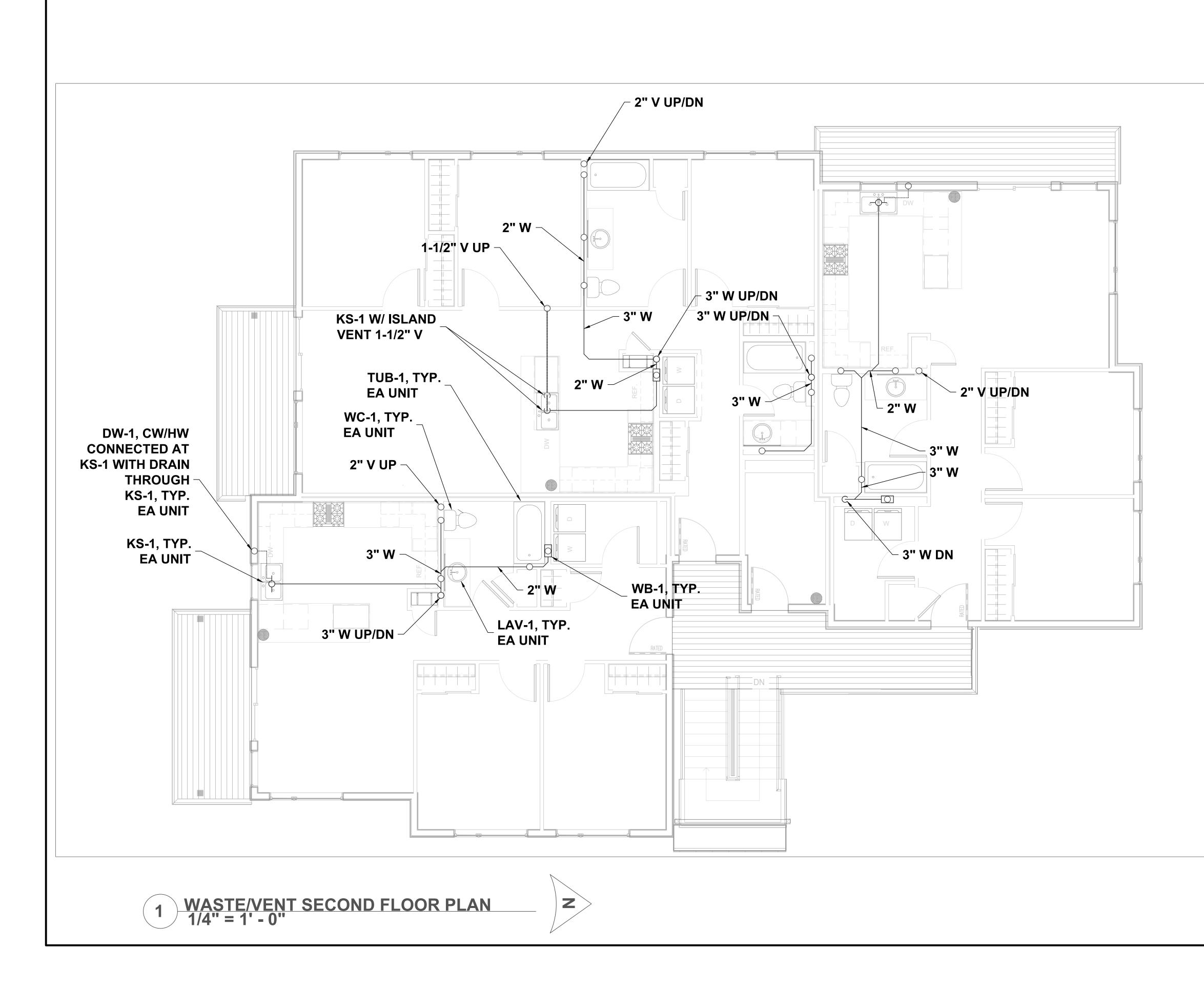
FANS SEQUENCE OF OPERATION

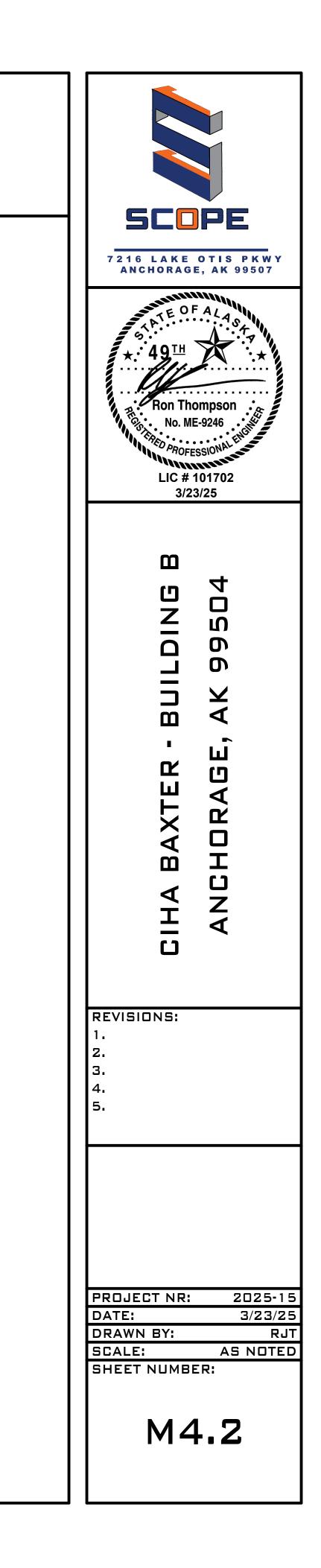


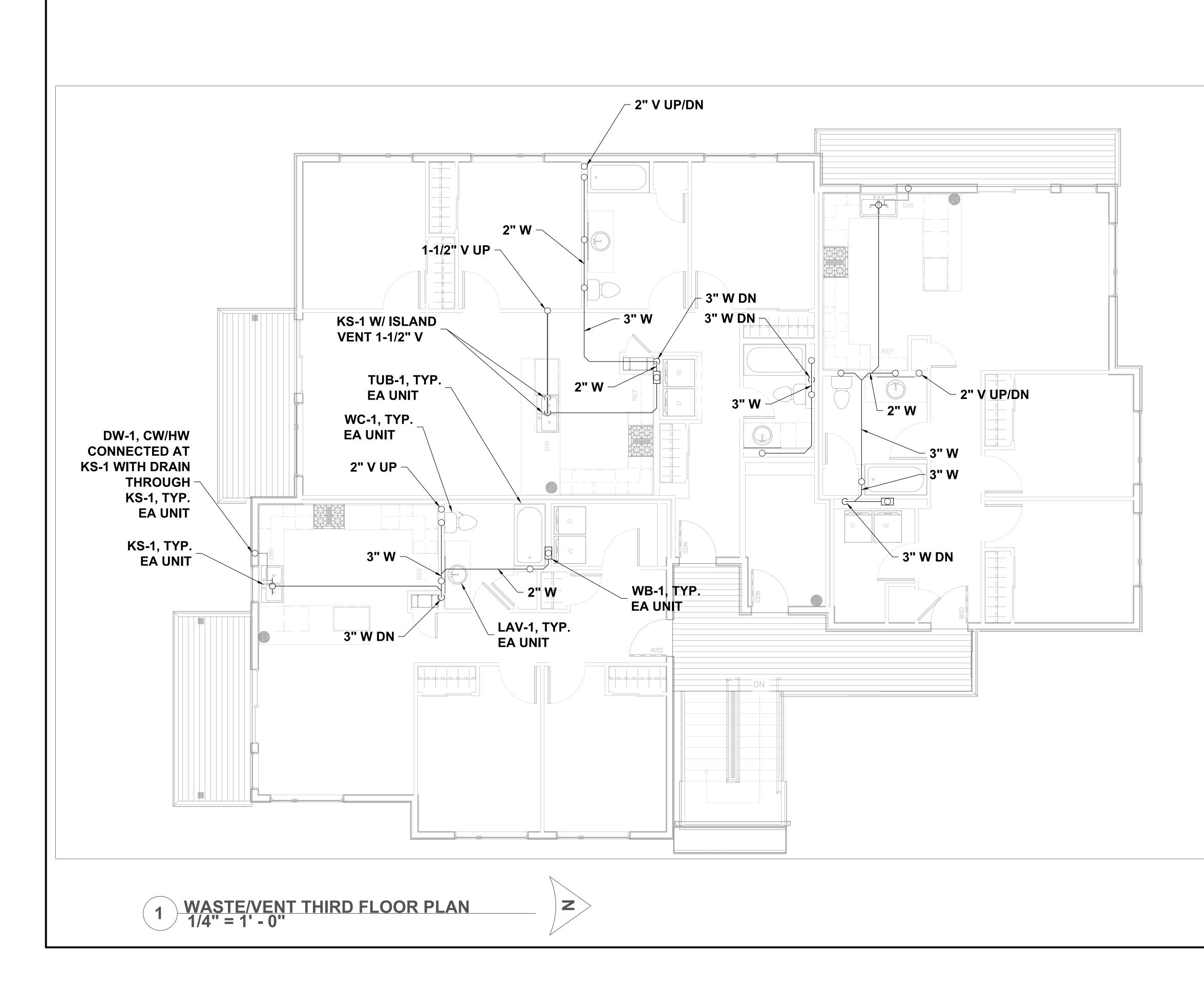


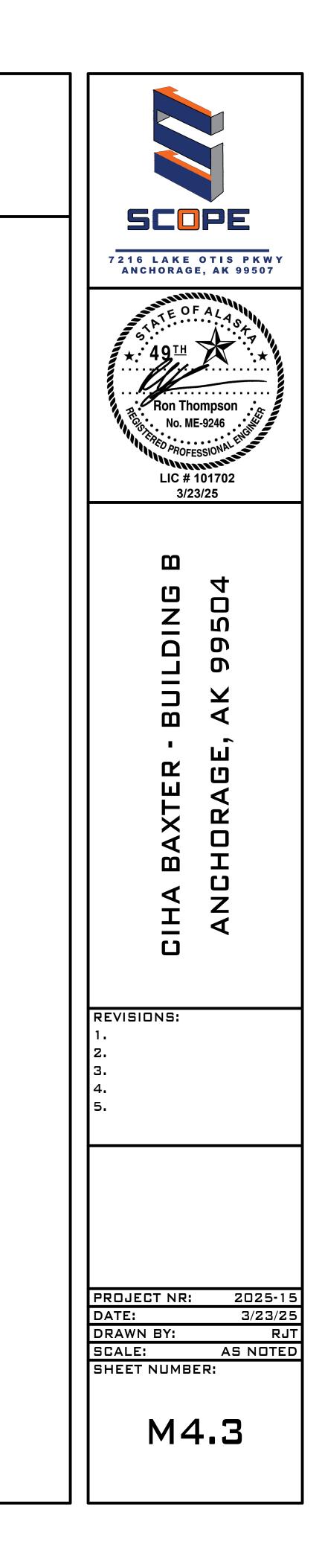


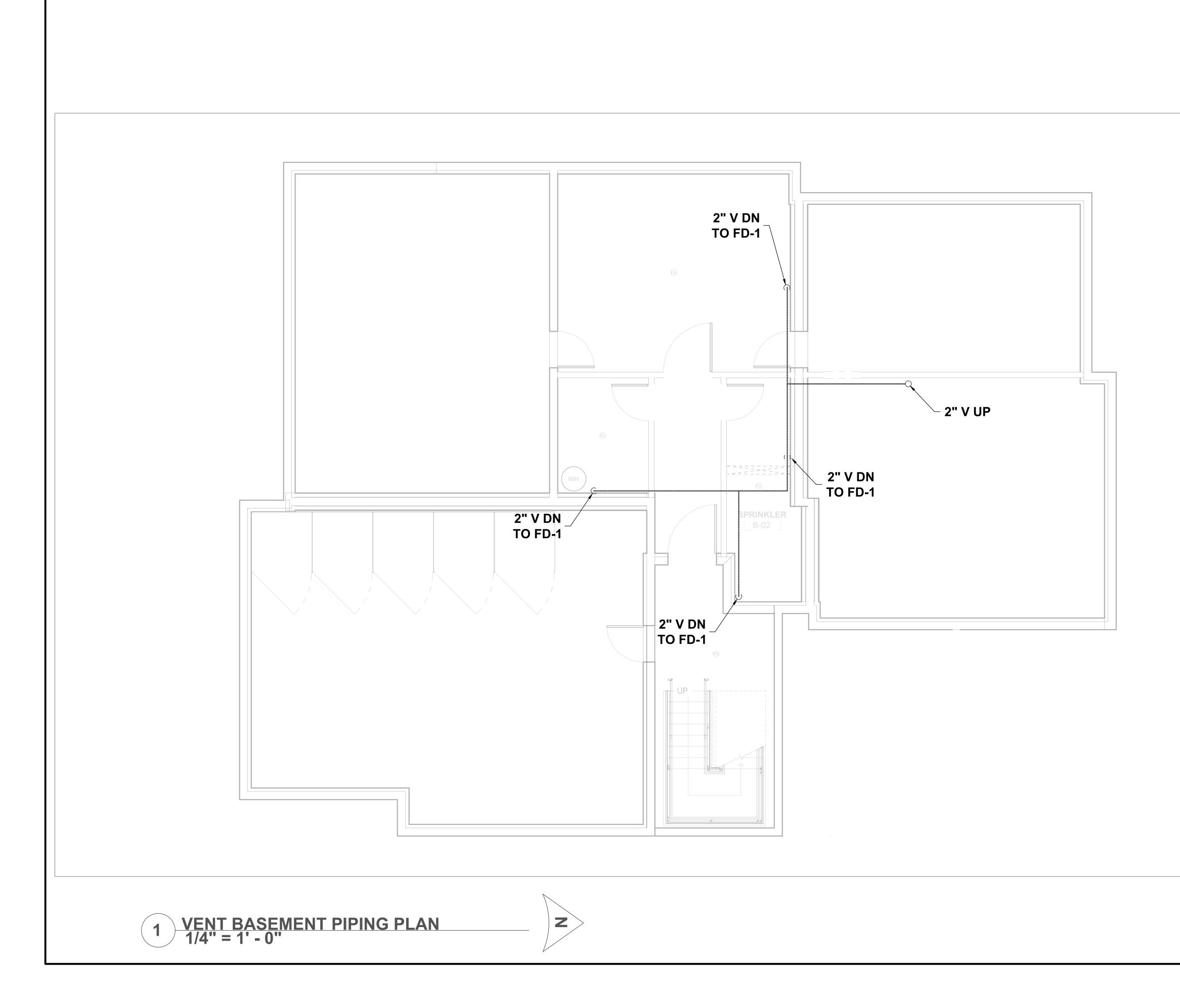




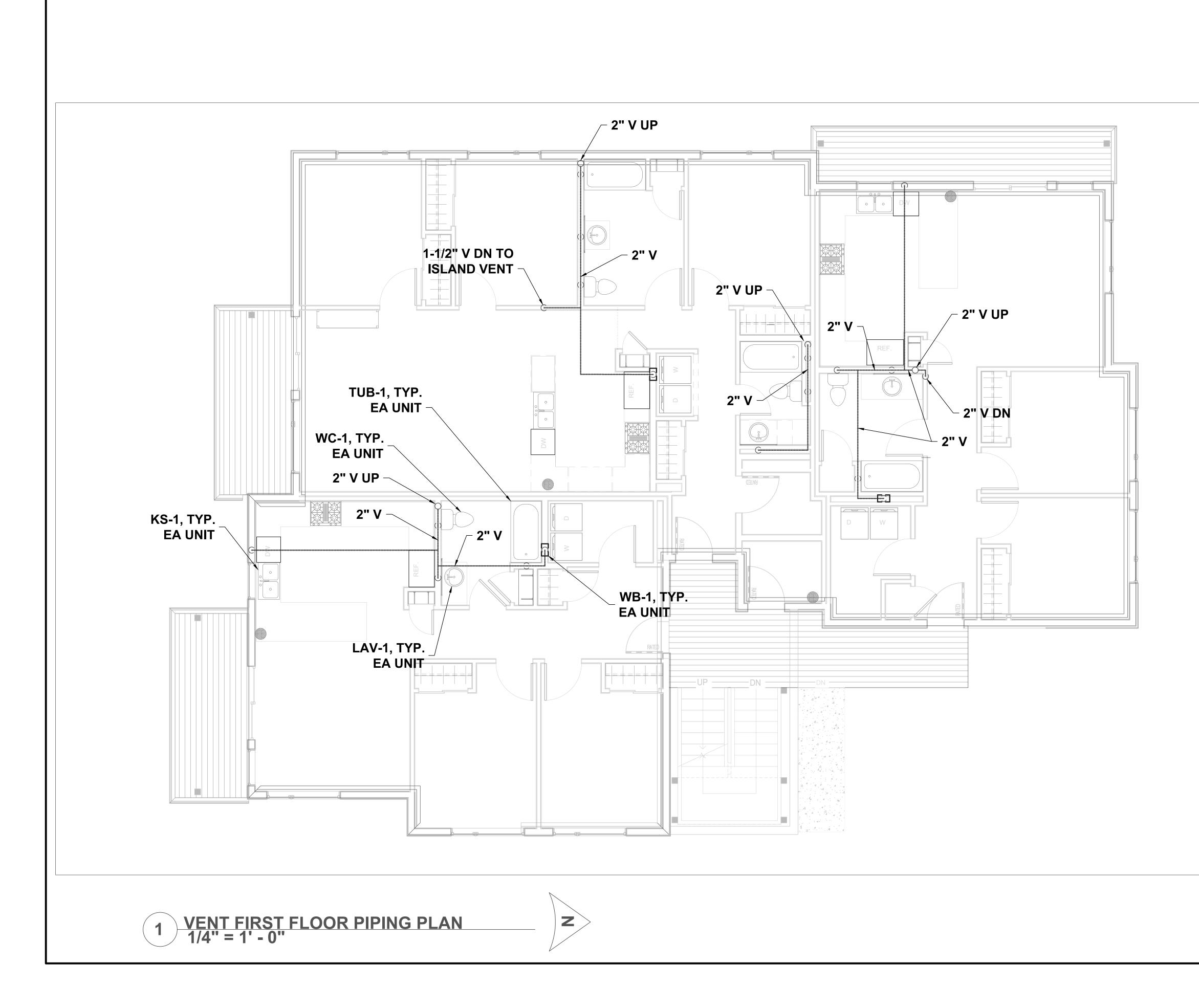


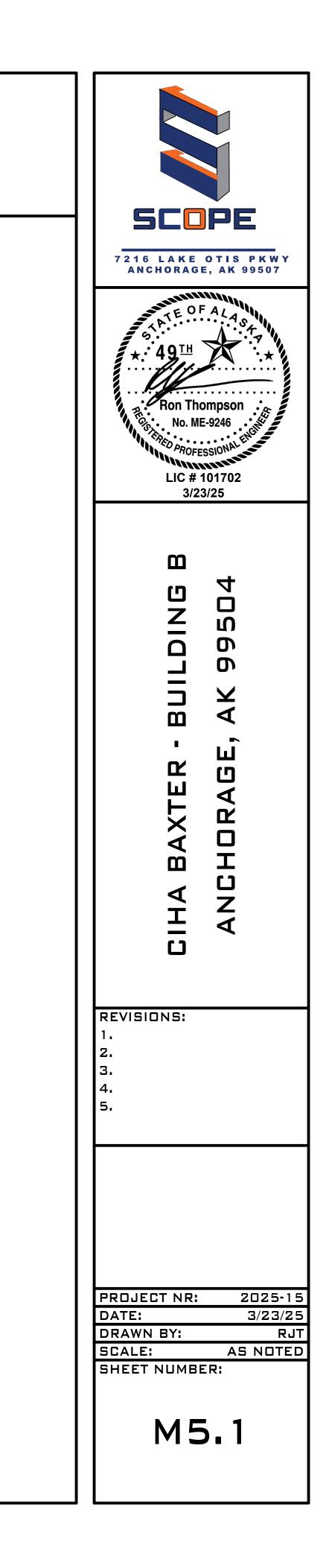


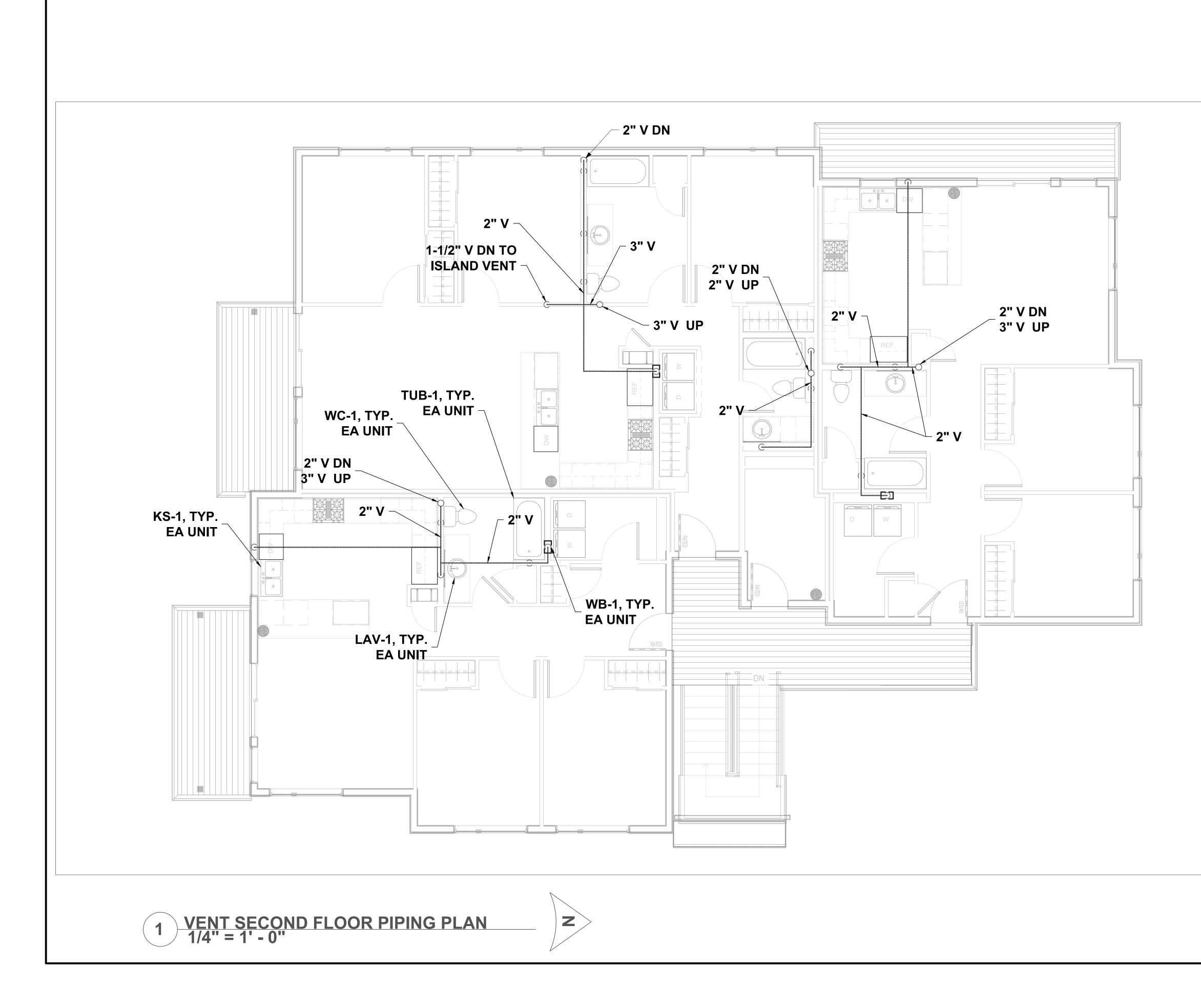


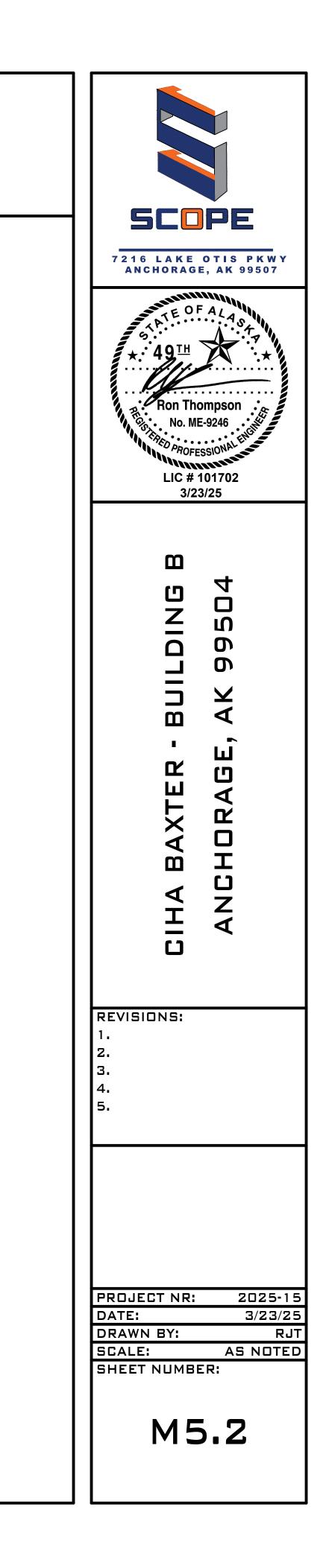


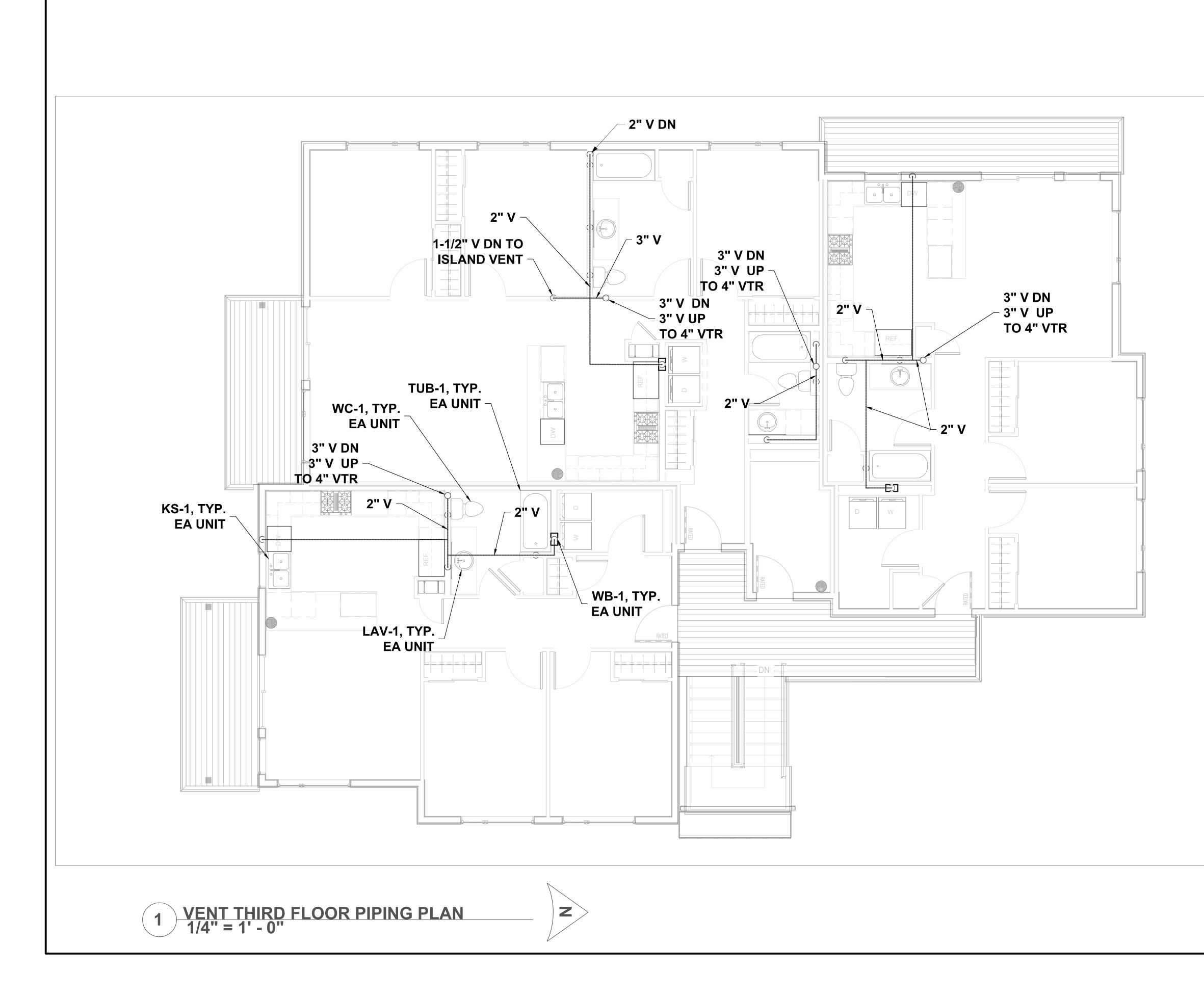


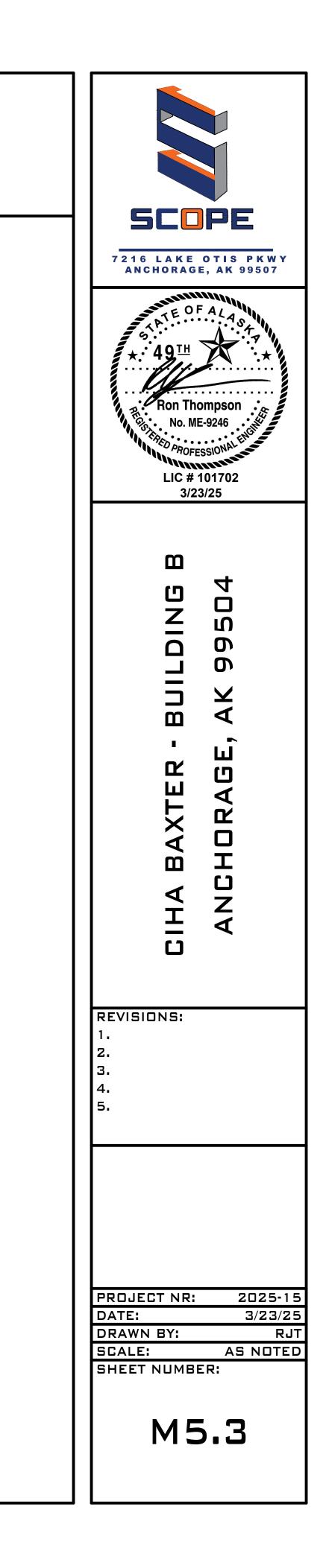


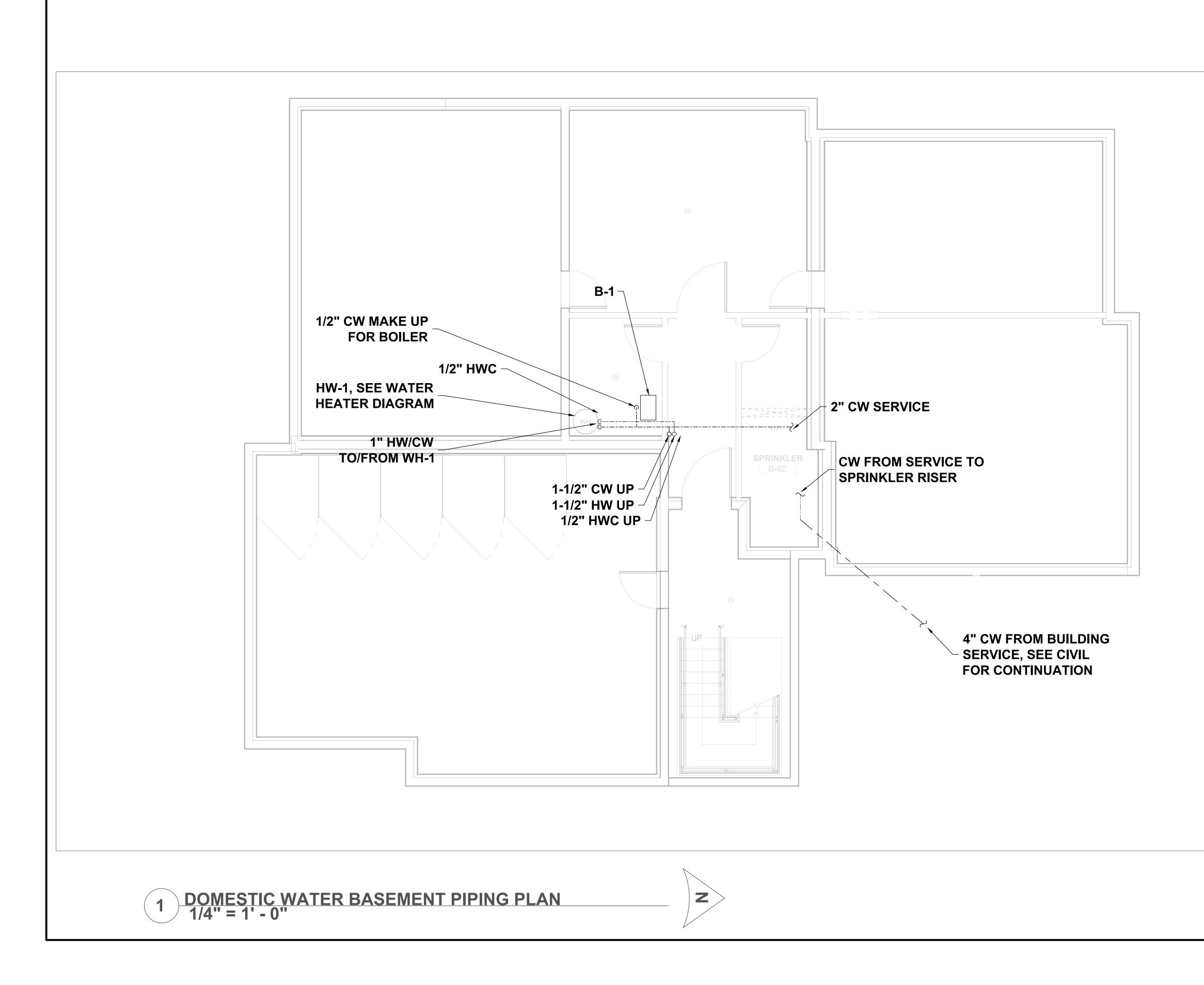


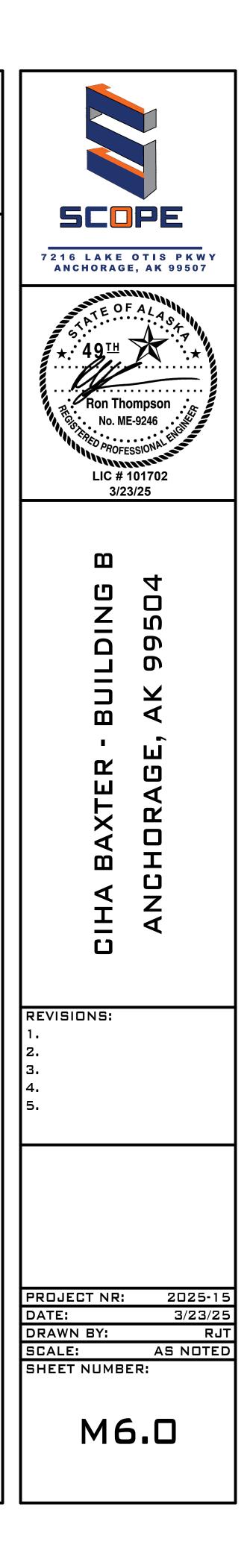


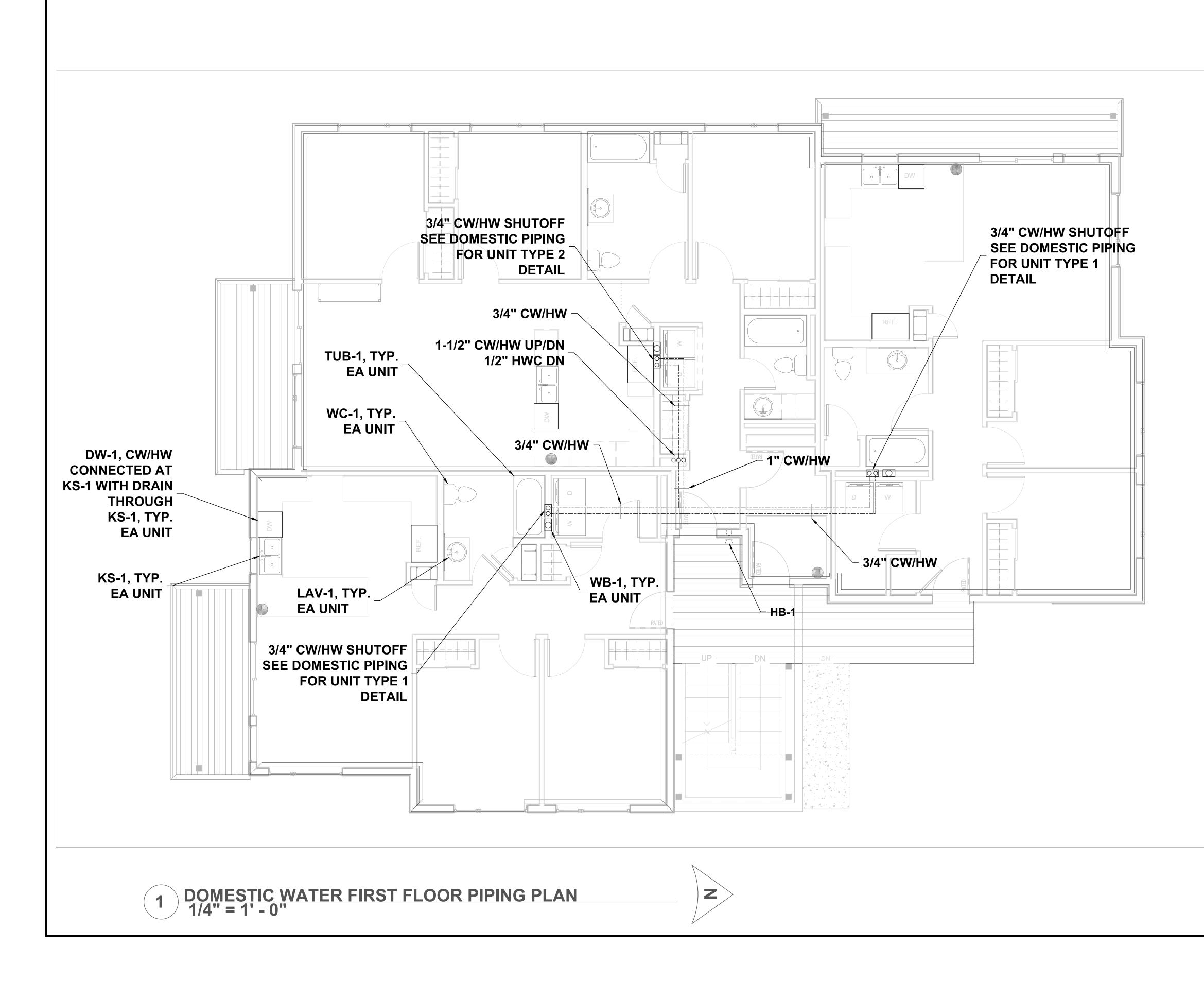


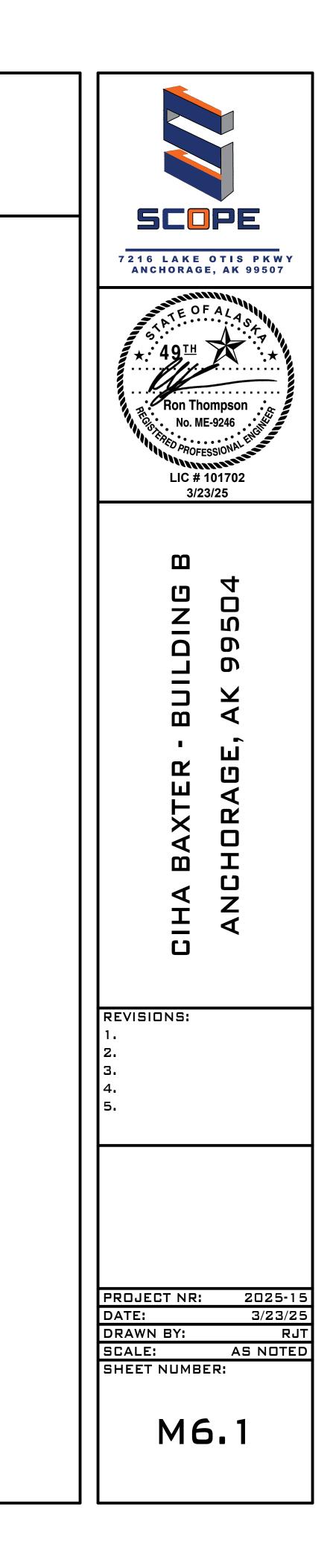


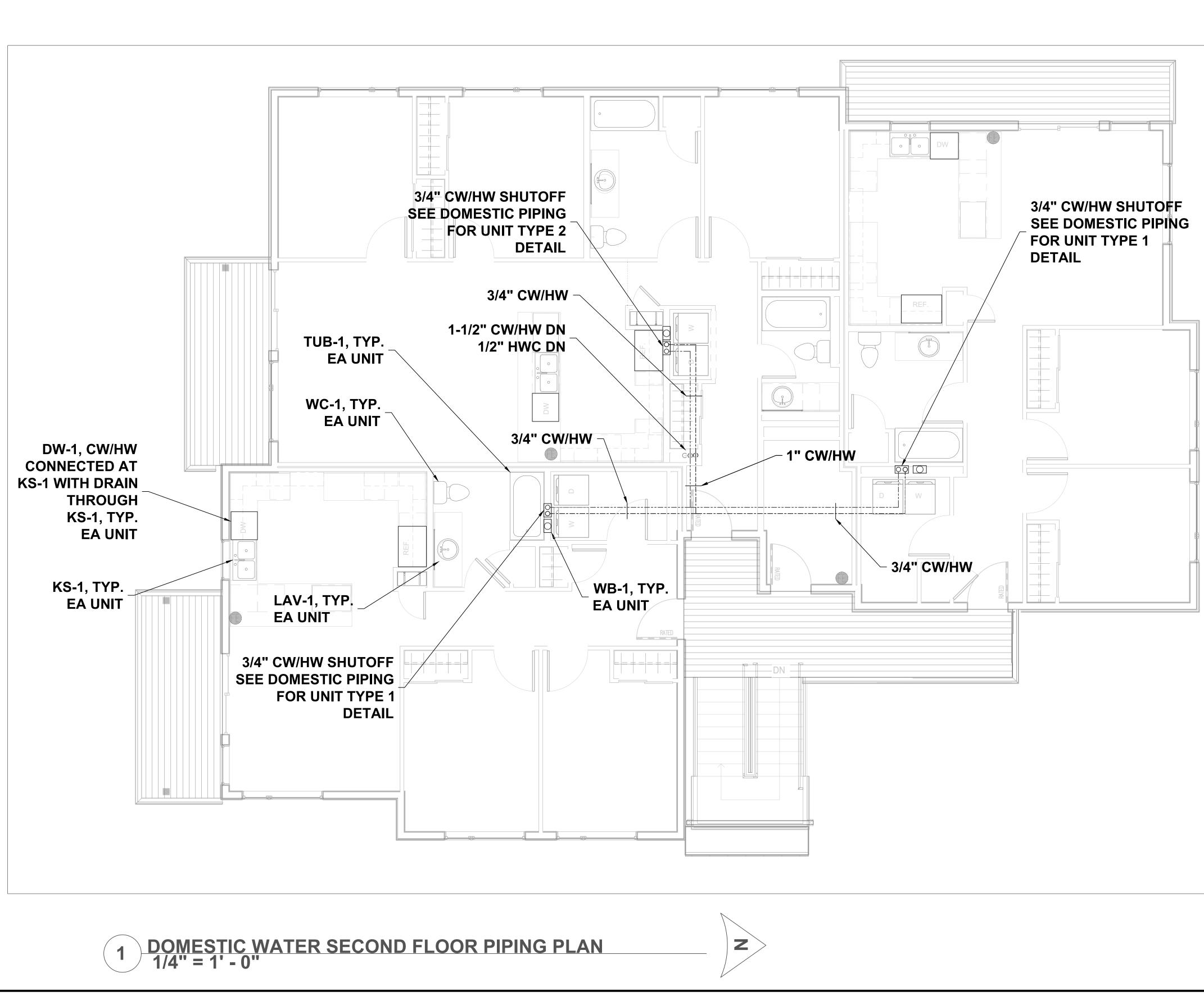


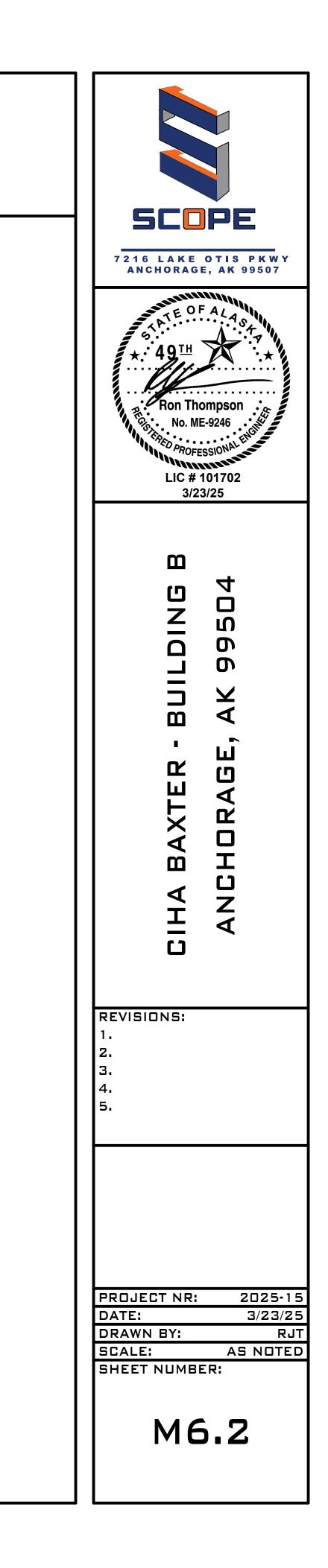


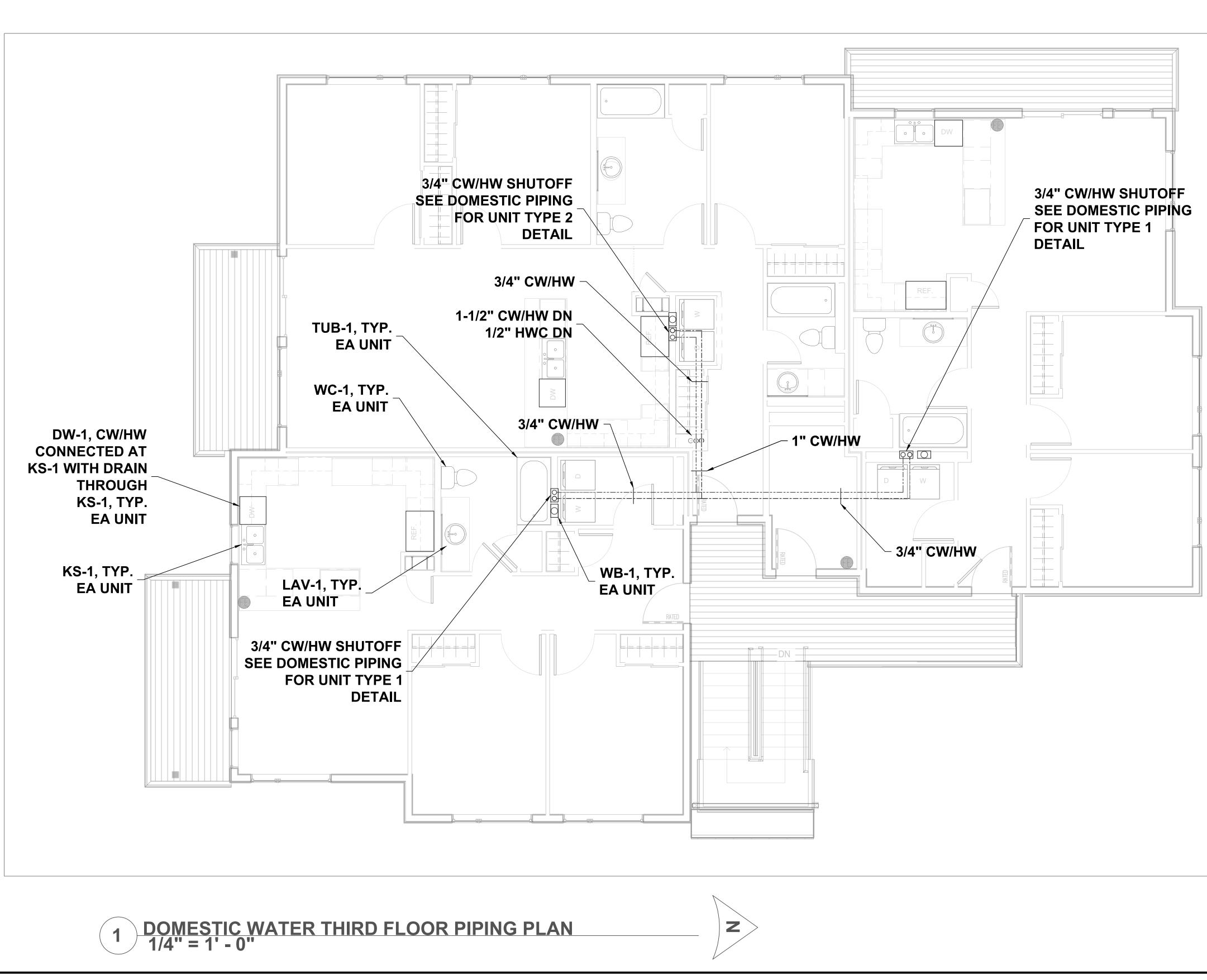


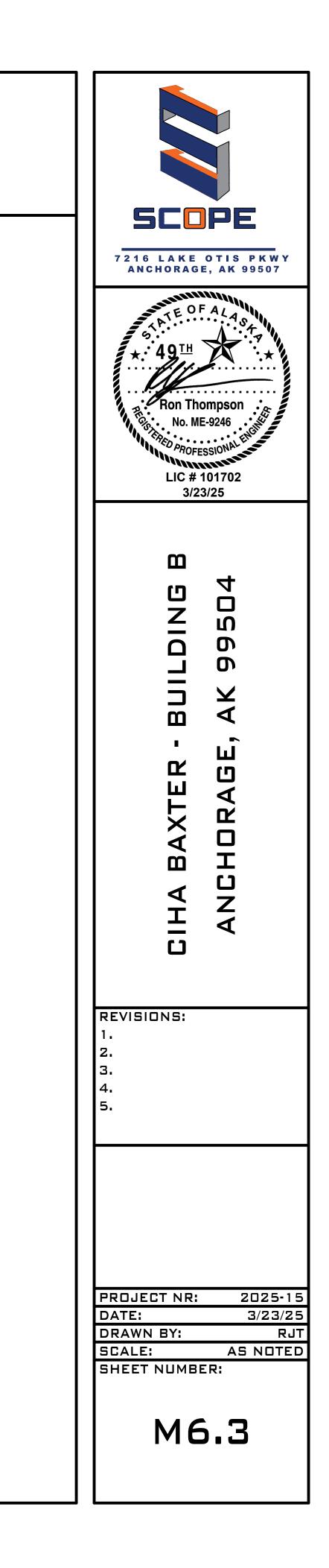


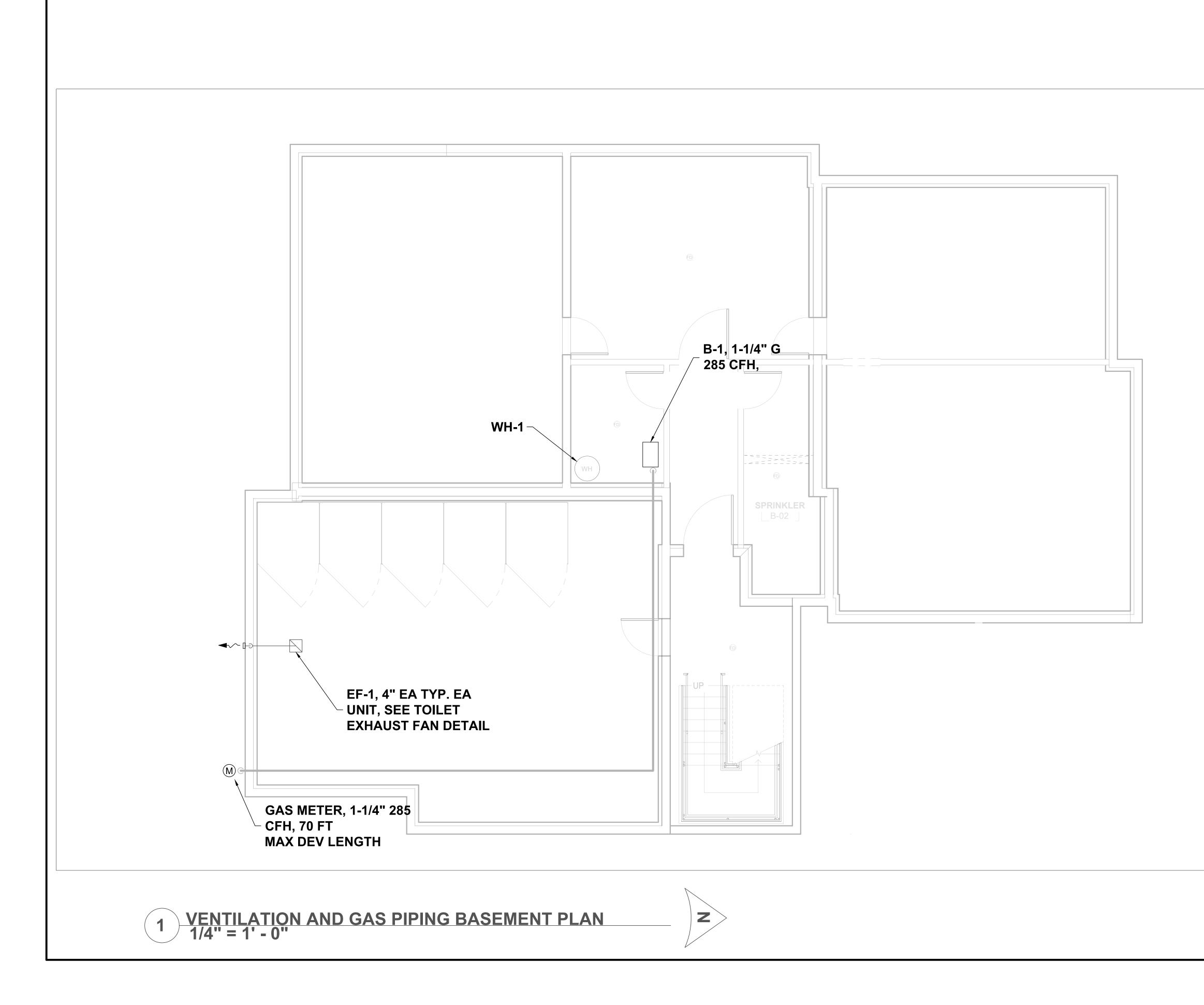


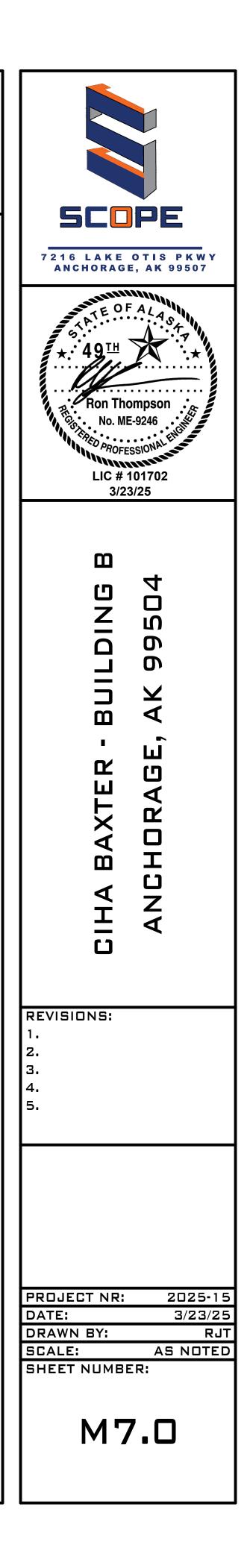


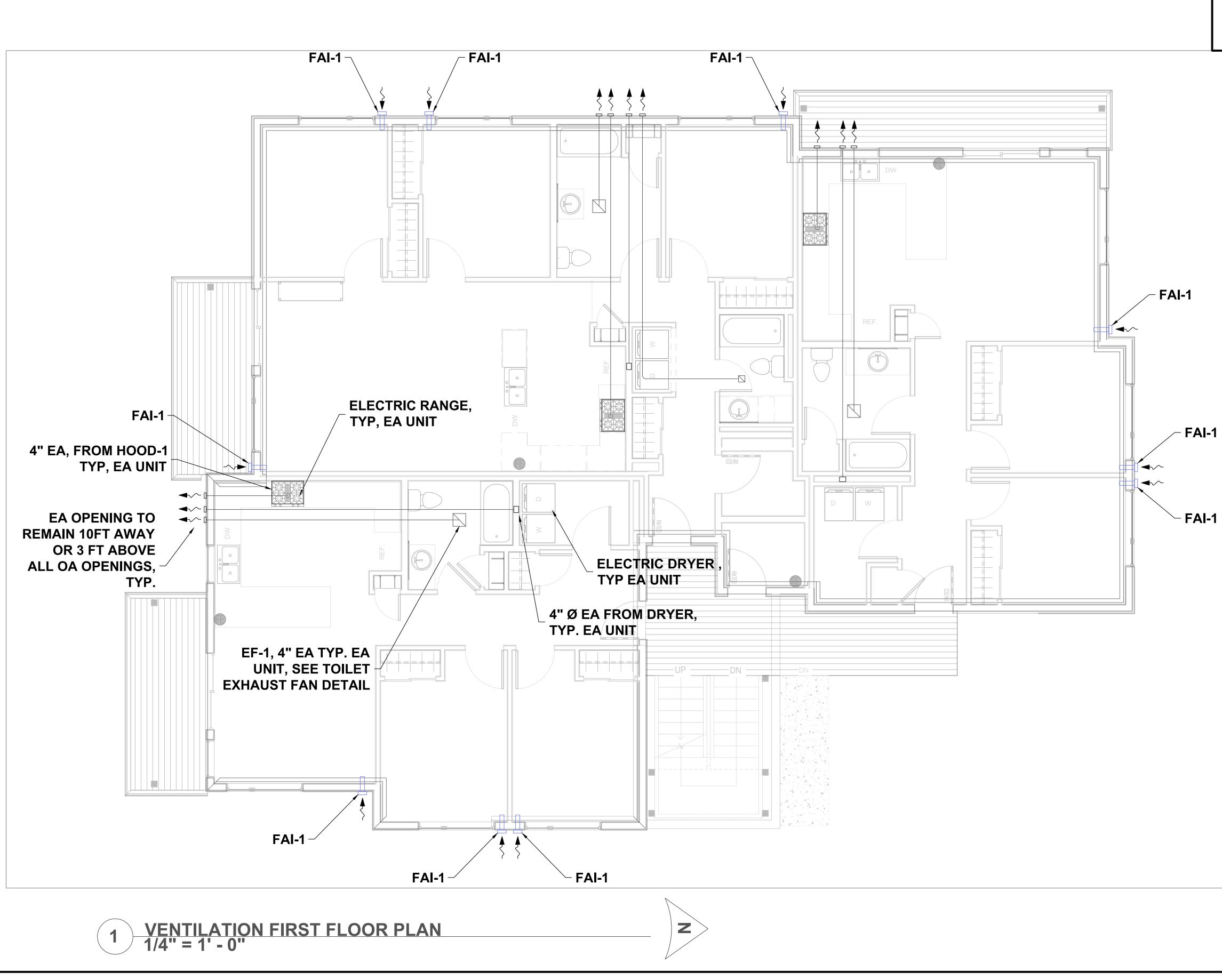


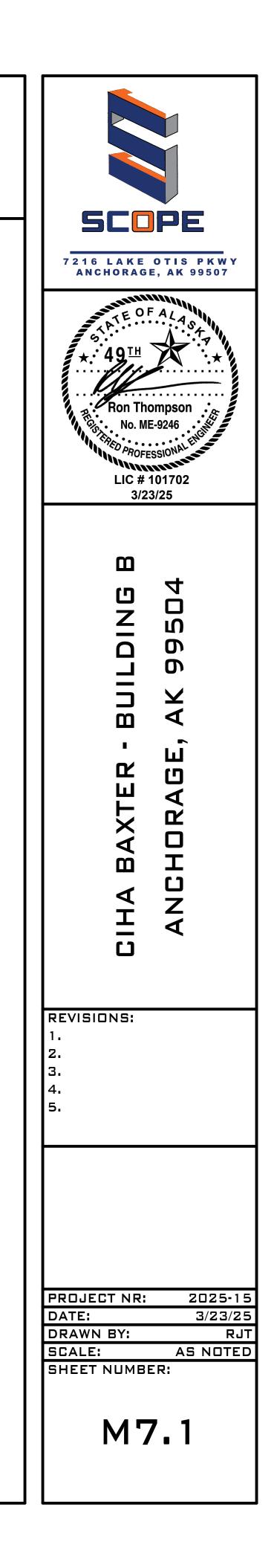


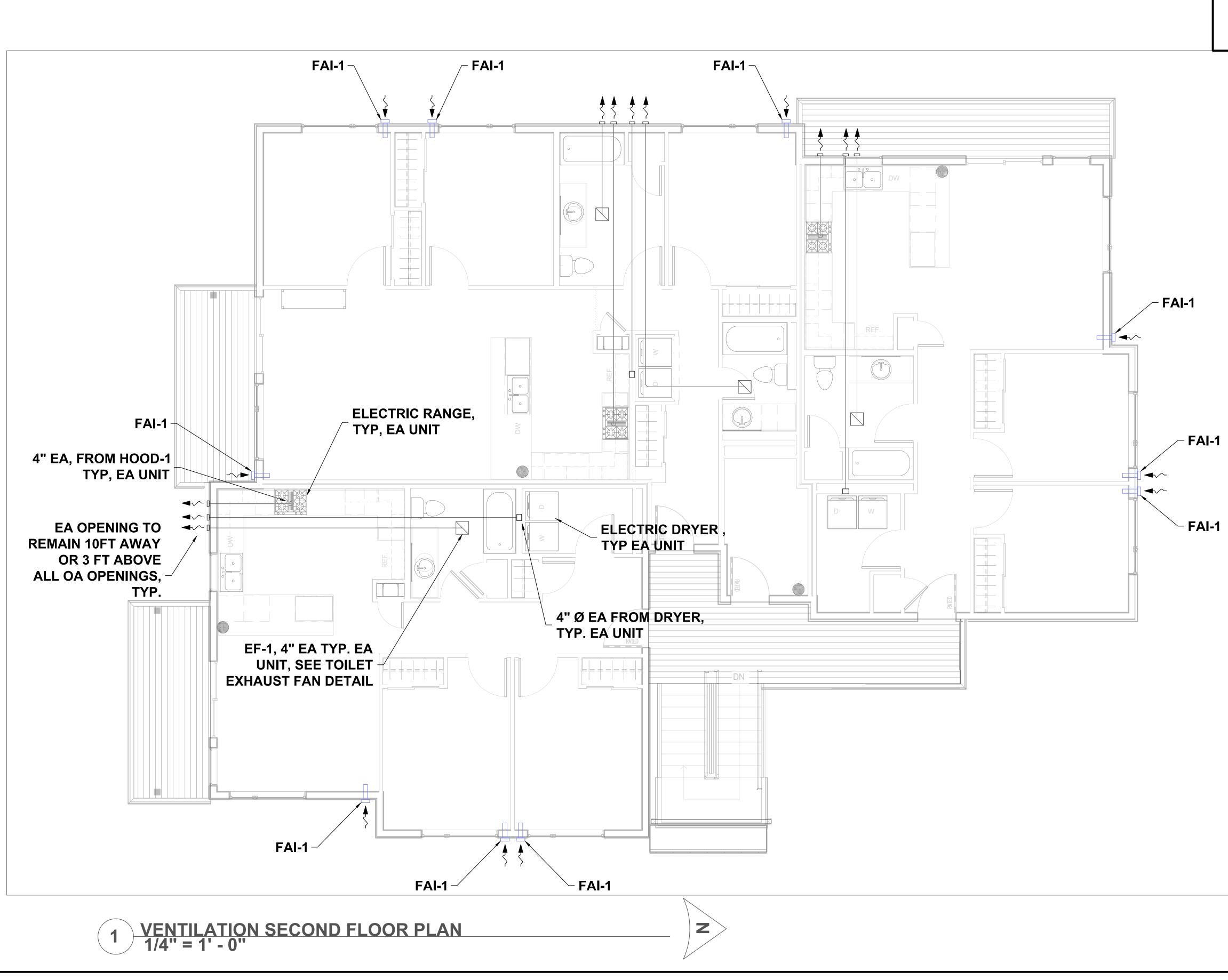




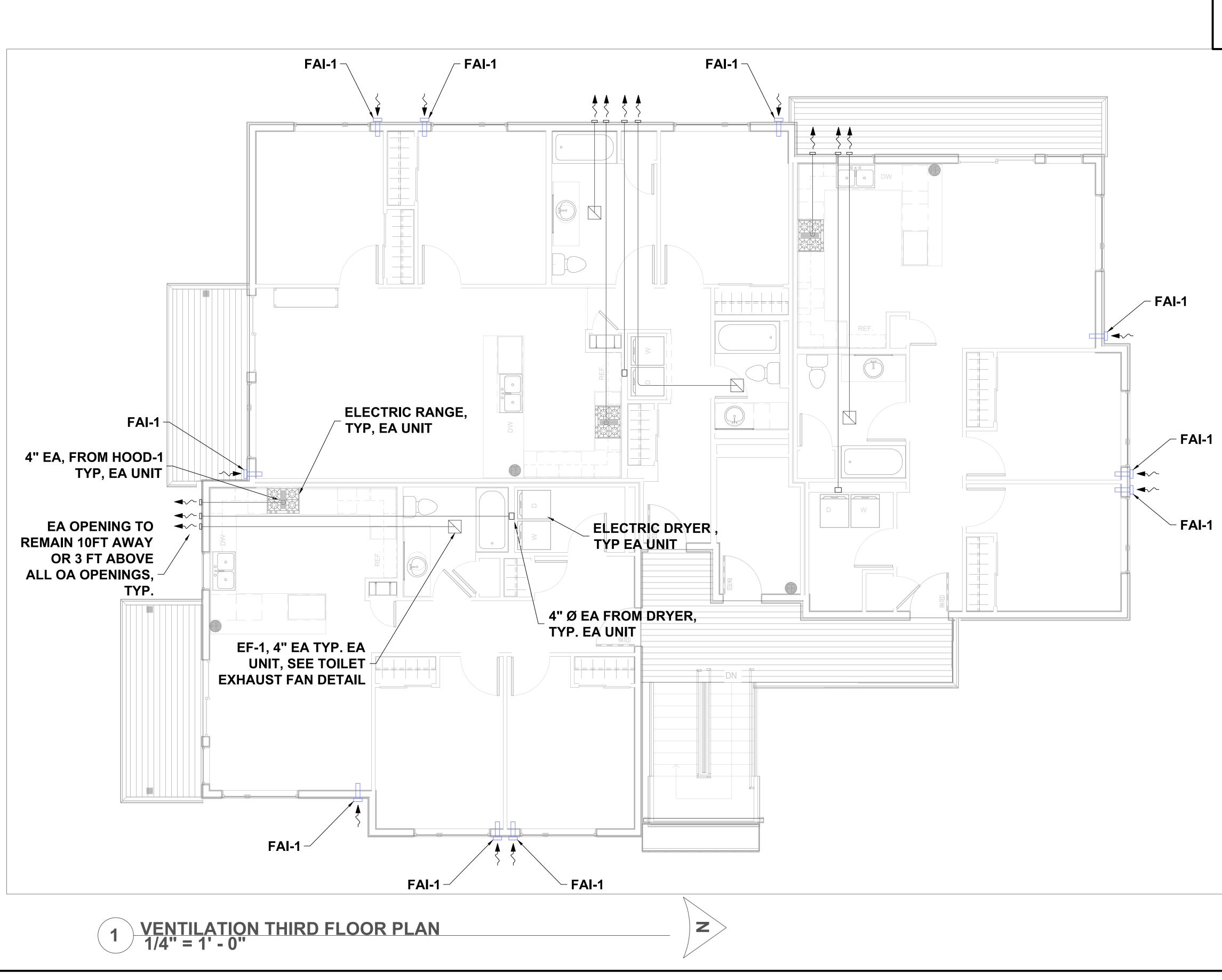


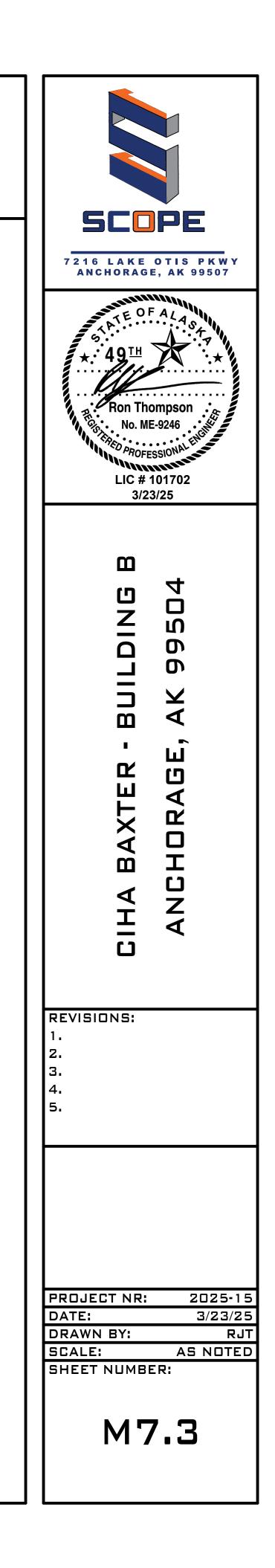


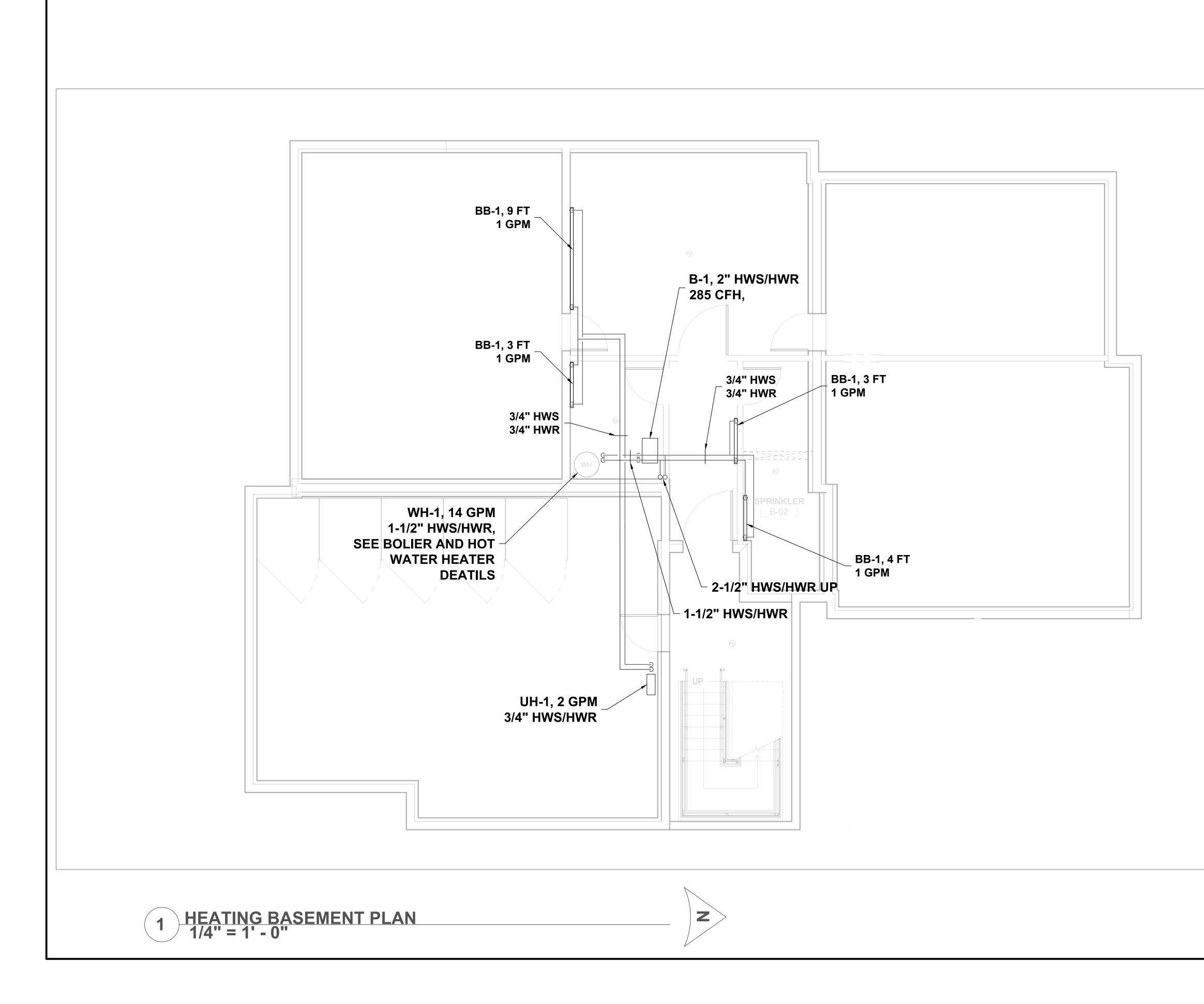




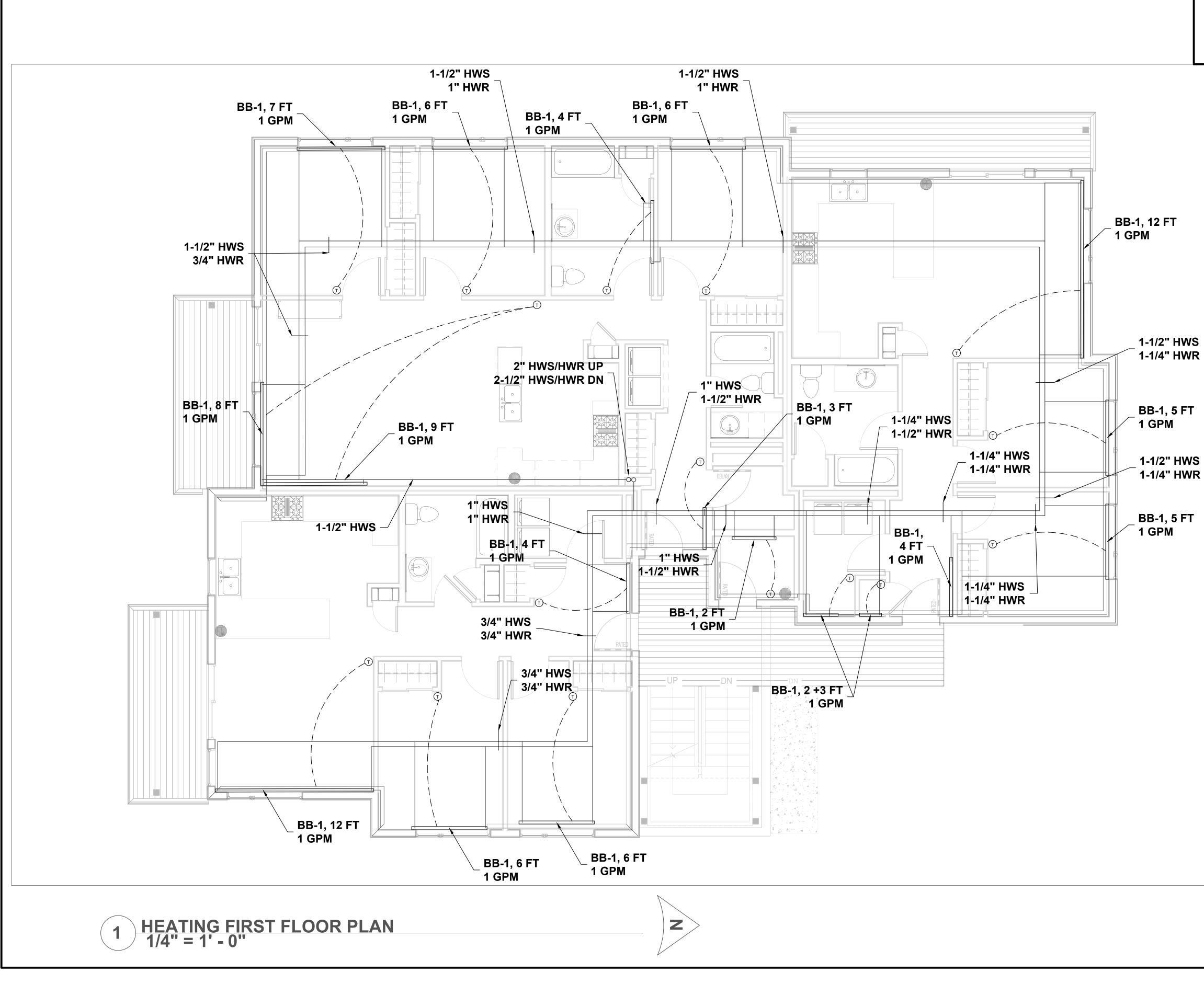




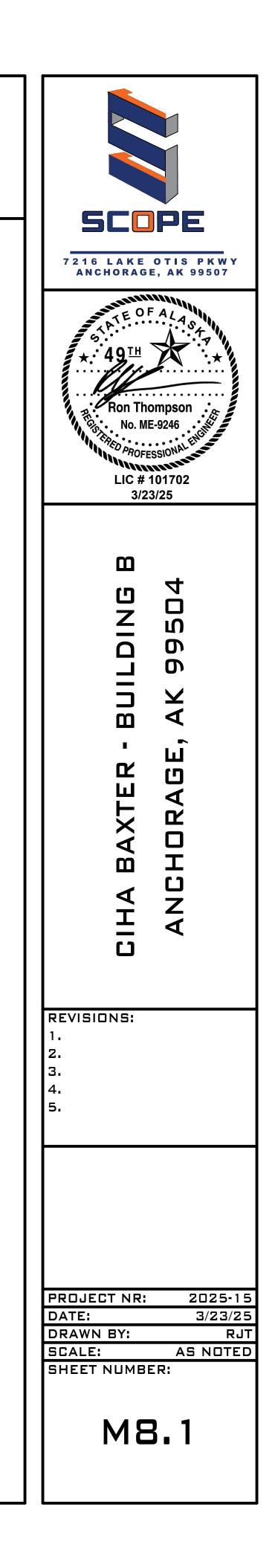


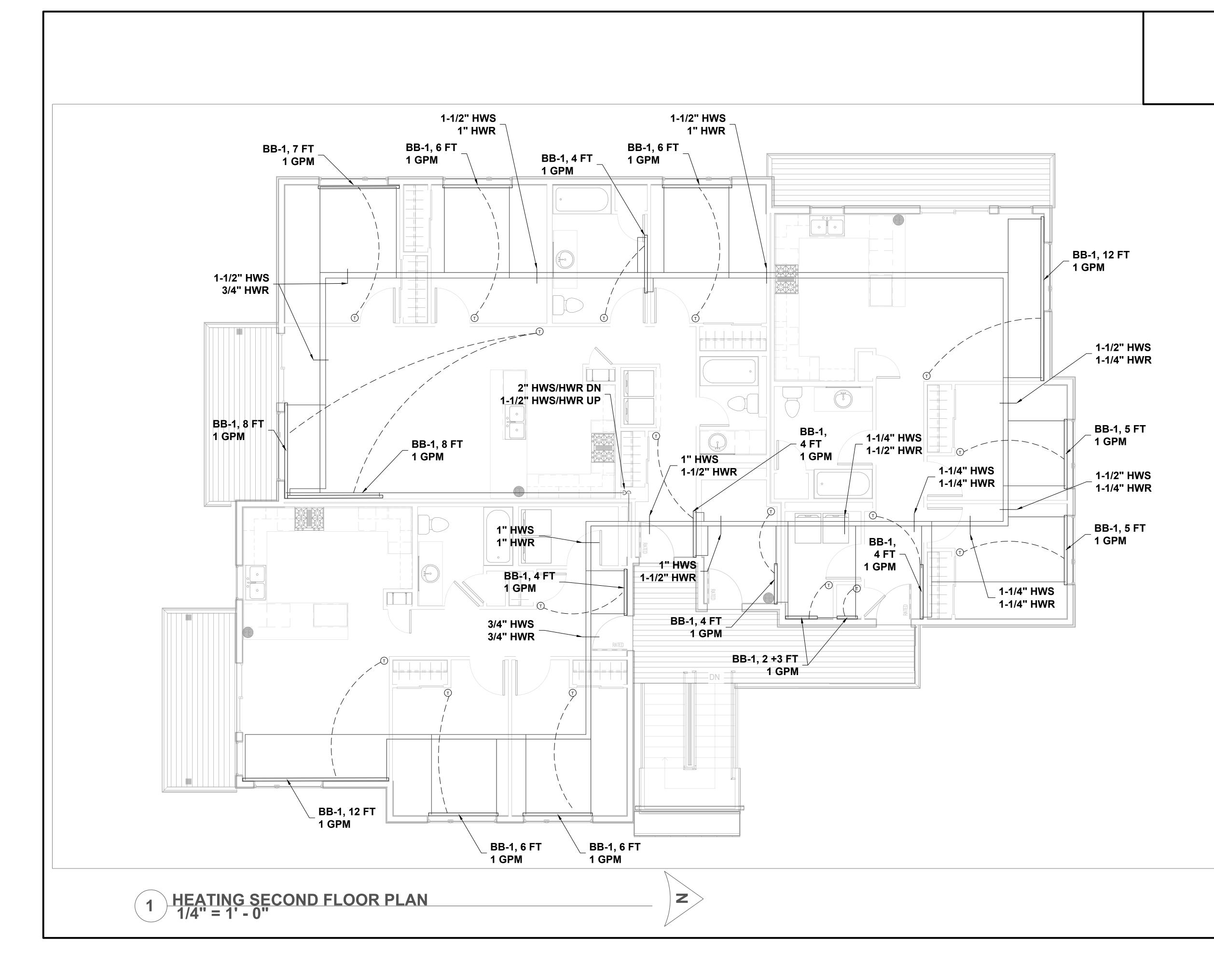


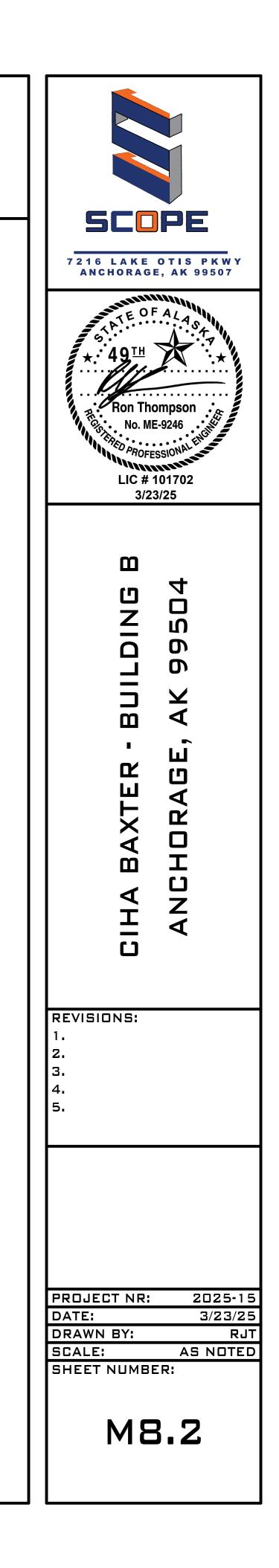


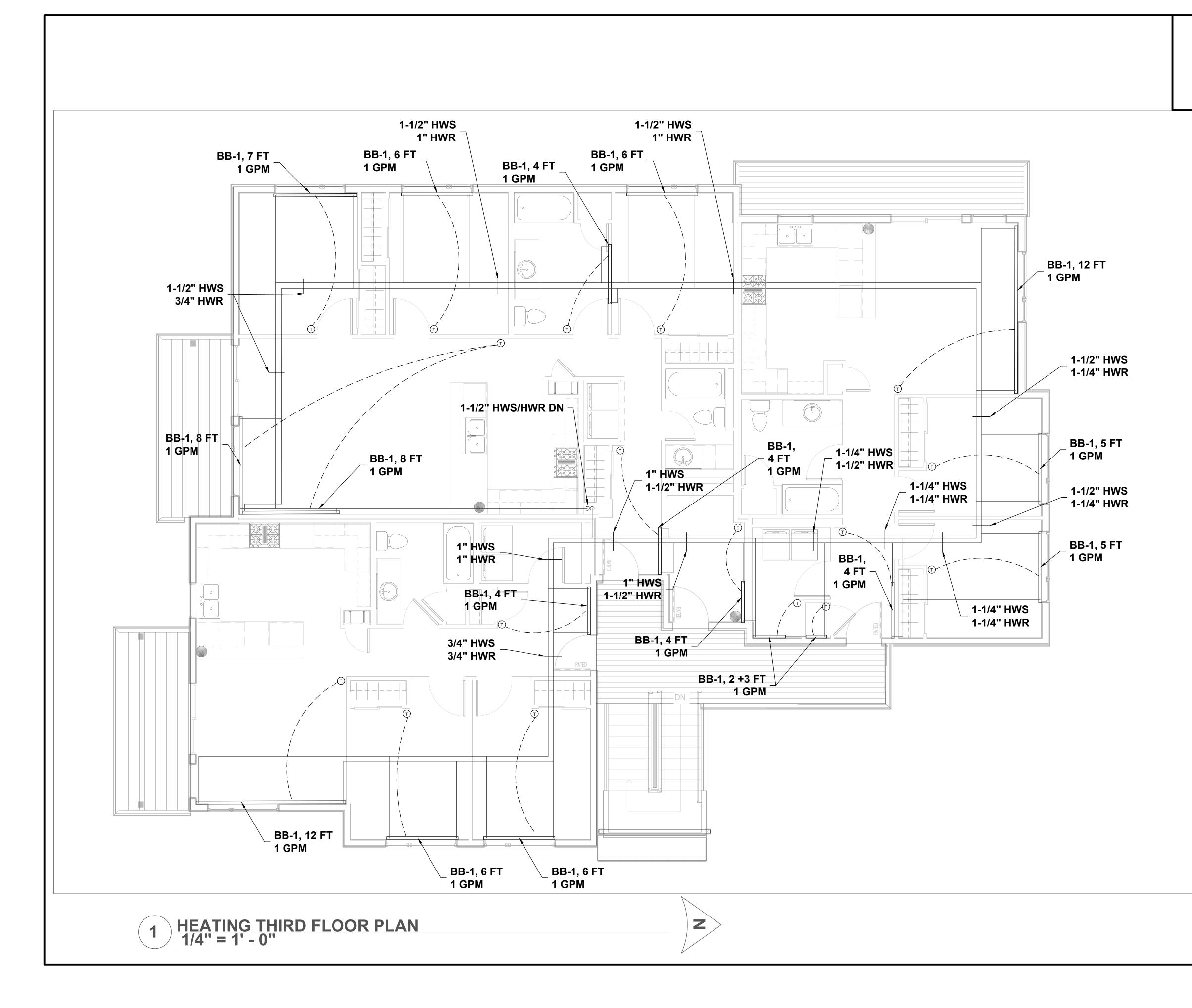


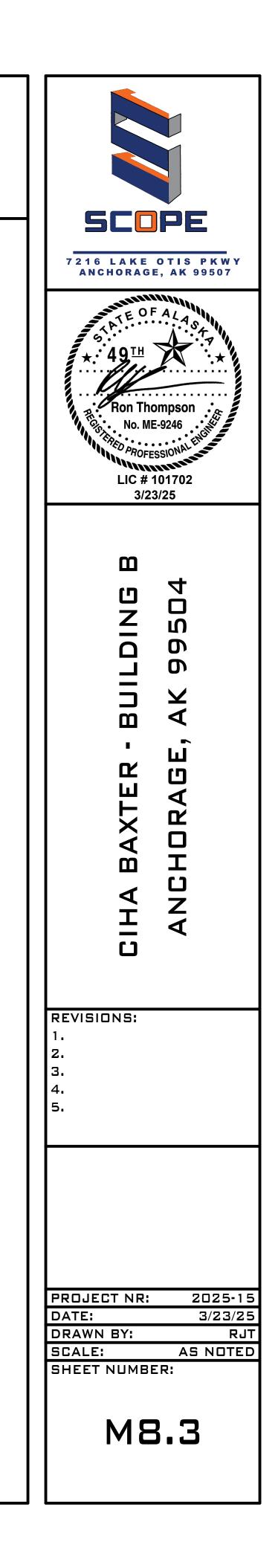


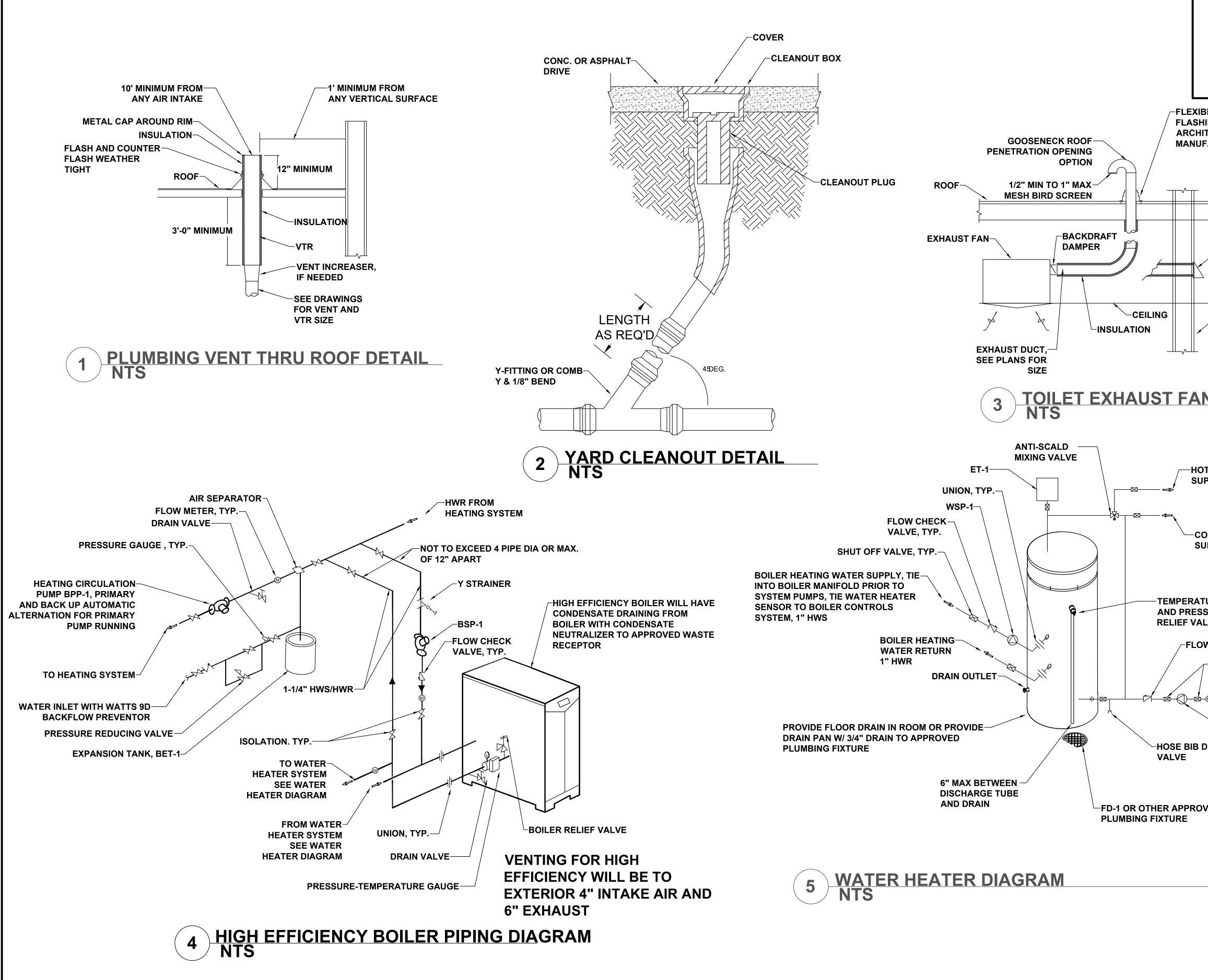




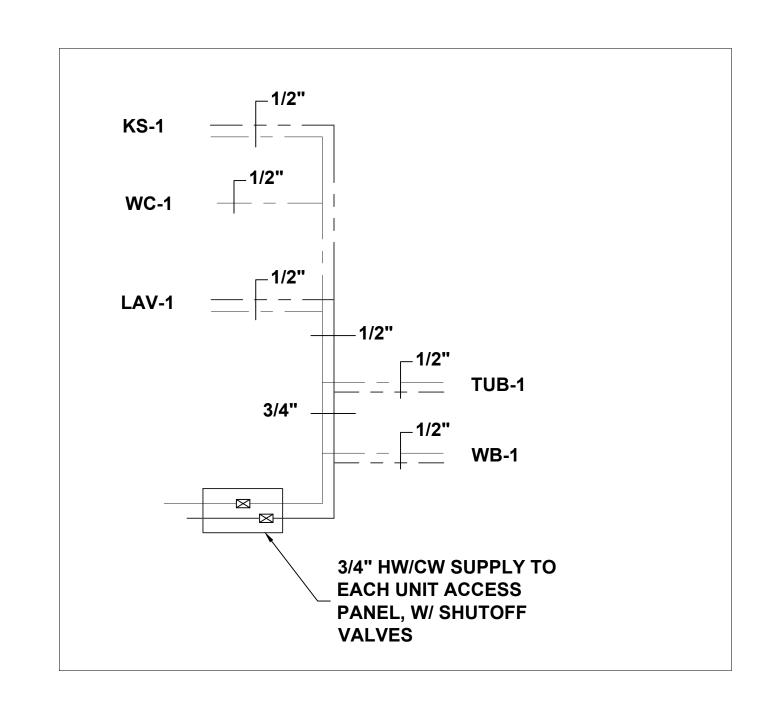


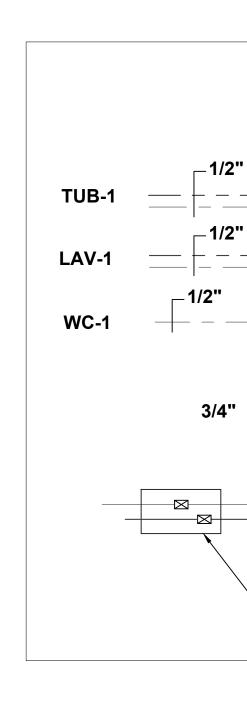






IBLE FLASHING, SECURE SHING TO ROOF PER HITECTURAL AND UFACTURER'S INSTRUCTIONS	T 216 LAKE OTIS PKWY ANCHORAGE, AK 99507
EXHAUST HOOD IN EXTERIOR WALL PENETRATION OPENING OPTION W/ 1/2" MIN TO 1" MAX MESH BIRD SCREEN EXTERIOR WALL	BOR TH A STATE OF ALASA STATE OF ALASA STA
AN DETAIL OT WATER UPPLY COLD WATER SUPPLY ATURE SSURE ALVE OW CHECK VALVE SHUTOFF VALVE, TYP. FLOW METER, TYP.	CIHA BAXTER - BUILDING B CIHA BAXTER - BUILDING B ANCHORAGE, AK 99504 I. 2. 3.
HWCP-1 B DRAIN	4. 5. PROJECT NR: 2025-15 DATE: 3/23/25 DRAWN BY: RJT SCALE: AS NOTED SHEET NUMBER:
	M9.0





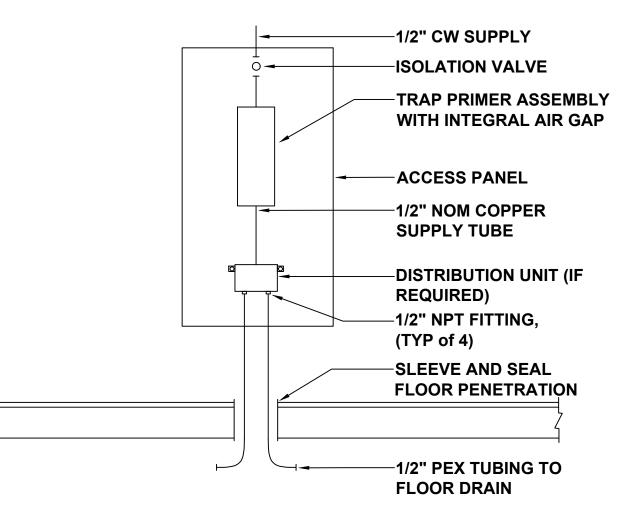
1/2"







TRAP PRIMER DETAIL NTS



2 DOMESTIC PIPING DETAIL UNIT TYPE 2 NTS

KS-1

1/2"

-1/2"

1" HW/CW SUPPLY TO

EACH UNIT ACCESS

PANEL, W/ SHUTOFF

VALVES

—1/2"

1/2"

1/2"

1/2'

1/2"

WB-1

