

## CHANGE ESTIMATE TAKE-OFF

**Contractor** Wolverine Supply, Inc.  
**Project Name:** Valdez Schools Piping Replacement  
**Prepared by:** Bruce Van Buskirk



**Project No:** 19-350-1809  
**RFP #** 4 - Re-Piping  
**Date:** 6/6/2022

<i>Demo &amp; Re-Piping As Shown on RSA Drawings Dated 3-28-22, Includes Supply &amp; Install Of New TV</i>	Equipment and Material Cost				Labor Manhours Cost					Totals
Indirect Costs	Quant.	Unit	Unit Cost	Total Cost	Wage \$	Labor Burden \$	Total Hourly Rate \$	Hours	Total Labor	Total Line Cost
	0	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00
	0	Lbs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00
	0	Lbs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00
	0	Yd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00
	0	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00
Direct Costs - Materials, Labor, Equipment										
Superintendance/Labor	1	L.S.	\$0.00	\$0.00	\$65.49	\$14.47	\$79.96	120	\$9,595.20	\$9,595.20
	1	L.S.	\$600.00	\$600.00	\$71.34	\$14.35	\$85.69	0	\$0.00	\$600.00
	1	L.S.	\$500.00	\$500.00	\$71.34	\$14.35	\$85.69	0	\$0.00	\$500.00
	1	L.S.	\$150.00	\$150.00	\$71.34	\$14.35	\$85.69	0	\$0.00	\$150.00
	1	L.S.	\$0.00	\$0.00	\$71.34	\$14.35	\$85.69	0	\$0.00	\$0.00
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	1	L.S.	\$0.00	\$0.00	\$71.34	\$14.35	\$85.69	0	\$0.00	\$0.00
	1	L.S.	\$0.00	\$0.00	\$71.34	\$14.35	\$85.69	0	\$0.00	\$0.00
Total G.C. Cost										<b>\$10,845.20</b>
20% Overhead & Profit										\$2,169.04
Sub Total										<b>\$13,014.24</b>
Subcontractors										
Sub Contractor: Valley Mechanical										\$81,170.00
Sub Contractor: Kenetic Electric										\$5,500.00
										\$0.00
					Subcontractor Totals					<b>\$86,670.00</b>
10% Overhead & Profit on Subcontractor										\$8,667.00
Total Sub Cost with G.C. Markup										\$95,337.00
Sub-Total										<b>\$108,351.24</b>
Bond Cost at 1.9%										\$2,058.67
Insurance Cost at 1.2%										\$1,300.21
Time Ass. with this RFP :	<b>TOTAL COST FOR THIS SHEET</b>									<b>\$111,710.13</b>

0"  
1"  
2"  
3"

PIPING LEGEND	LOGIC	ABBREVIATIONS
<p>----- DENOTES DEMOLITION</p> <p>--- WASTE</p> <p>----- VENT PIPING</p> <p>----- COLD WATER</p> <p>----- HOT WATER</p> <p>----- HOT WATER RECIRCULATED</p> <p>---XXX--- SEE ABBREVIATIONS FOR MEDIA</p> <p>○ PIPE UP</p> <p>○ PIPE DOWN</p> <p>○ TEE UP</p> <p>○ TEE DOWN</p> <p>┌ CAP</p> <p>└ UNION</p> <p>▶ DIRECTION OF FLOW</p> <p>○ BALL/BUTTERFLY VALVE</p> <p>⊗ GATE VALVE</p> <p>↯ BACKFLOW PREVENTER</p>	<p>● POINT OF CONNECTION</p> <p>5 M2 --- DETAIL NUMBER</p> <p>5 M2 --- SHEET LOCATED ON</p> <p>5 M2 --- DIRECTION OF VIEW</p> <p>5 M2 --- SECTION NUMBER</p> <p>5 M2 --- SHEET LOCATED ON</p> <p>1 --- SHEET NOTES</p>	<p>ABV ABOVE</p> <p>ACT ACOUSTICAL CEILING TILE</p> <p>ADA AMERICAN W/ DISABILITIES ACT GUIDELINES</p> <p>AD ACCESS DOOR</p> <p>AHAP AS HIGH AS POSSIBLE</p> <p>AMPS AMPERES</p> <p>APD AIR PRESSURE DROP</p> <p>ARW ACID RESISTANT WASTE</p> <p>BLDG BUILDING</p> <p>BTUH BRITISH THERMAL UNIT/HOUR</p> <p>CAP CAPACITY</p> <p>DEG DEGREE</p> <p>DIM DIMENSION</p> <p>DN DOWN</p> <p>DWG DRAWING</p> <p>EAT ENTERING AIR TEMPERATURE</p> <p>EWT ENTERING WATER TEMPERATURE</p> <p>ESP EXTERNAL STATIC PRESSURE</p> <p>ENT ENTERING</p> <p>(E) EXISTING</p> <p>FT FEET</p> <p>FPM FEET PER MINUTE</p> <p>FC FORWARD CURVE</p> <p>F FAHRENHEIT</p> <p>GA GAUGE</p> <p>GPM GALLONS PER MINUTE</p> <p>GWB GYPSUM WALLBOARD</p> <p>HW HOT WATER</p> <p>HWC HOT WATER CIRCULATED</p> <p>HP HORSEPOWER</p> <p>IN INCHES</p> <p>MAX MAXIMUM</p> <p>MBH THOUSAND BTUH</p> <p>MFR MANUFACTURER</p> <p>MIN MINIMUM</p> <p>MTD MOUNTED</p> <p>NPCW NONPOTABLE COLD WATER</p> <p>NPHW NONPOTABLE HOT WATER</p> <p>NTS NOT TO SCALE</p> <p>OC ON CENTER</p> <p>O/A OUTSIDE AIR</p> <p>OD OUTSIDE DAMPER</p> <p>PD PRESSURE DROP</p> <p>PH PHASE</p> <p>PSI POUND PER SQUARE INCH</p> <p>PSIG POUNDS PER SQUARE INCH GAUGE</p> <p>R/A RETURN AIR</p> <p>RPM REVOLUTIONS PER MINUTE</p> <p>S/A SUPPLY AIR</p> <p>SCFM STANDARD CUBIC FEET PER MINUTE</p> <p>SP STATIC PRESSURE</p> <p>SQ SQUARE</p> <p>TEMP TEMPERATURE</p> <p>TOD TOP OF DUCT</p> <p>TSP TOTAL STATIC PRESSURE</p> <p>T'STAT THERMOSTAT</p> <p>TTL TOTAL</p> <p>TYP TYPICAL</p> <p>UPC UNIFORM PLUMBING CODE</p> <p>V VENT</p> <p>VTR VENT THRU ROOF</p> <p>WC WATER COLUMN</p> <p>WG WATER GAUGE</p>

### TEMPERING VALVE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	INLET (CW/HW)	OUTLET	TEMPERATURE RANGE F	SET POINT F	FLOW RATE	PRESS. DROP	POWER	ACCESSORIES/REMARKS
TV-1	WATTS	LFIS100VL	1-1/4"	1-1/2"	60-180°F	115°F	55 GPM	10 PSI	20 W; 120/60/1	DIGITAL WATER MIXING VALVE, ASSE 1017 AND NSF 61 LISTED.

### PLUMBING FIXTURE SCHEDULE - EXISTING TO REMAIN

SYMBOL	FIXTURE	MOUNTING	CW	HW/TW	WASTE	VENT	TRAP	TRIM/REMARKS
P-6E	SINK - UTILITY	FLOOR	1/2	1/2	2	1-1/2	1-1/2	EXISTING FIXTURE TO REMAIN.
P-6G	SINK - JANITOR	FLOOR	1/2	1/2	3	2	3	EXISTING FIXTURE TO REMAIN.
P-6H	SINK - JANITOR	FLOOR	1/2	1/2	3	2	3	EXISTING FIXTURE TO REMAIN.
P-9	WASHER BOX	WALL	3/4	3/4	2	1 1/2	2	EXISTING FIXTURE TO REMAIN.
HB-1	HOSE BIBB - EXTERIOR	WALL	3/4	--	--	--	--	EXISTING FIXTURE TO REMAIN.
HB-2	HOSE BIBB - INTERIOR	WALL	3/4	3/4	--	--	--	EXISTING FIXTURE TO REMAIN.

### KITCHEN FIXTURE SCHEDULE - EXISTING TO REMAIN

SYMBOL	FIXTURE	MOUNTING	CW	HW/TW	WASTE	VENT	TRAP	TRIM/REMARKS
K-16,17	MOP SINK	FLOOR	1/2	1/2	2	1-1/2	1-1/2	EXISTING FIXTURE TO REMAIN.
K-22,23,24	ICE MACHINE, WATER FILTER	--	1/2	--	1/2, 3/4	--	--	EXISTING FIXTURE TO REMAIN.
K-35,36	HAND SINK	WALL	1/2	1/2	1-1/2	1-1/2	1-1/2	EXISTING FIXTURE TO REMAIN.
K-42,43,44	PREP SINK,WASTE DISPOSER	--	1/2 (2)	1/2	1-1/2, 2	--	--	EXISTING FIXTURE TO REMAIN.
K-50,51	PREP SINK	--	1/2	1/2	1-1/2	--	--	EXISTING FIXTURE TO REMAIN.
K-56,57	COMBI OVEN - DOUBLE	--	3/4 (4)	--	2 (2)	--	--	EXISTING FIXTURE TO REMAIN.
K-59	STEAM KETTLE	--	1/2	1/2	--	--	--	EXISTING FIXTURE TO REMAIN.
K-60	FLOOR DRAIN TROUGH	--	--	--	3	2	3	EXISTING FIXTURE TO REMAIN.
K-62	STEAM KETTLE	--	--	--	1 1/4	--	--	EXISTING FIXTURE TO REMAIN.
K-63	WW EXHAUST HOOD	--	--	--	2	--	--	EXISTING FIXTURE TO REMAIN.
K-71	FIVE WELL HOT FOOD UNIT	--	--	--	1	--	--	EXISTING FIXTURE TO REMAIN.
K-75	FOUR PAN UNIT	--	--	--	1	--	--	EXISTING FIXTURE TO REMAIN.
K-83	WW HOOD CONTROL PNL	--	--	1	3/4	--	--	EXISTING FIXTURE TO REMAIN.
K-90,91	PRE-RINSE, WASTE DISPOSER	--	1/2 (2)	1/2	2	2	2	EXISTING FIXTURE TO REMAIN.
K-92	HIGH TEMP DISHWASHER	--	--	--	1-1/2	1-1/2	1-1/2	EXISTING FIXTURE TO REMAIN.
K-94	VENTLESS VAPOR RECOVERY	--	--	--	1/2	--	--	EXISTING FIXTURE TO REMAIN.
K-96,97,98	SINK - 3-COMPARTMENT	--	1/2 (2)	1/2 (2)	2	2	2	EXISTING FIXTURE TO REMAIN.

**RSA**  
**Engineering, Inc.**  
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS  
 670 West Fireweed Lane, Suite 200  
 Anchorage, AK 99503  
 Phone (907) 276-0521  
 Corporate No.: AECC542

VALDEZ MS DOMESTIC WATER PIPING REPAIRS  
 GEORGE H. GILSON MIDDLE SCHOOL  
 357 ROBE RIVER DRIVE,  
 VALDEZ, ALASKA 99686

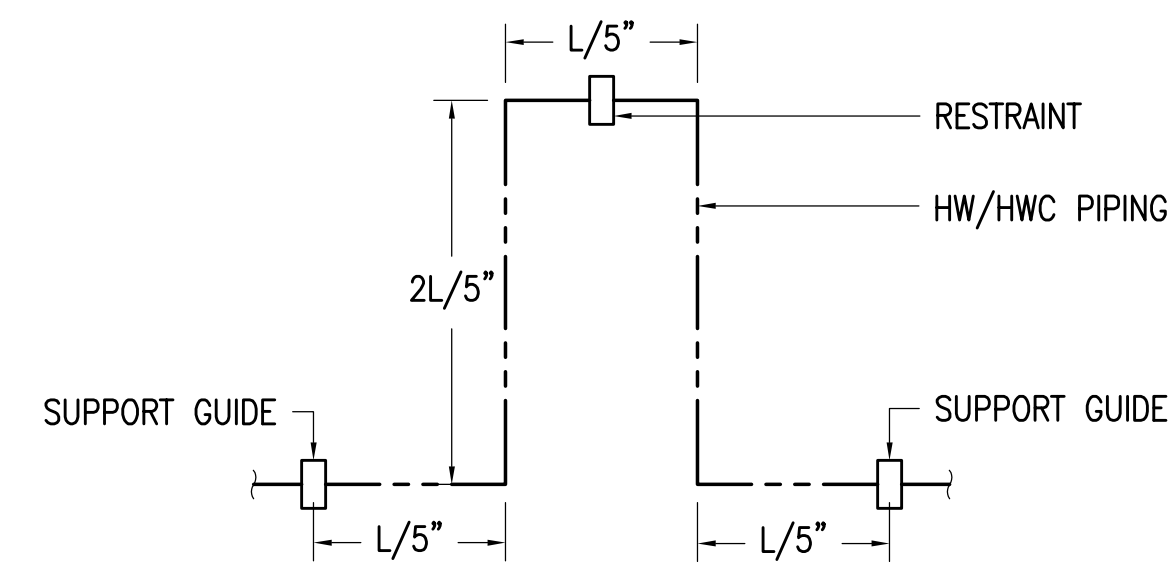
REVISIONS:

DRAWN BY: CAA/BPP  
 CHECKED BY: BPP  
 DATE: 03/28/2021  
 JOB NUMBER: M0225.00  
 DWG FILE: MSERIES

DRAWING TITLE:  
 LEGENDS,  
 ABBREVIATIONS,  
 SCHEDULES

SHEET:  
**M001**

0"  
1"  
2"  
3"



**2 EXPANSION LOOP DETAIL**  
NO SCALE

MINIMUM SIZES FOR "L"		
1-1/2" HW		48
1" HWC		42

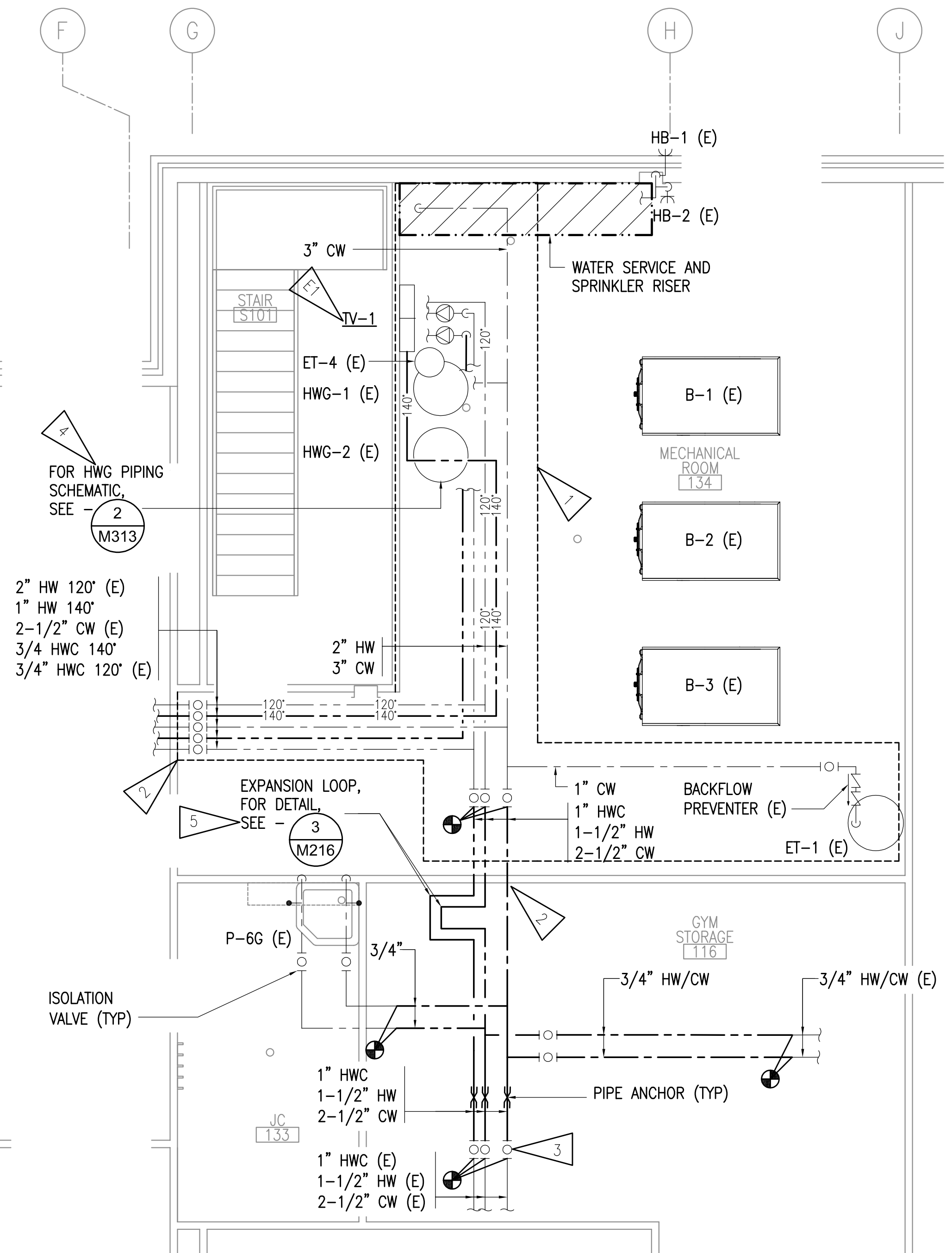
**GENERAL NOTES:**

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. WHERE NEW PIPING IS INDICATED, DEMOLISH ALL EXISTING PIPING IN ITS ENTIRETY. PROVIDE NEW INSULATION ON NEW PIPING, RE-INSULATE ADJACENT EXISTING PIPING AS REQUIRED TO PROVIDE CONTINUOUS INSULATION FROM EXISTING TO NEW PIPING.

**SHEET NOTES:**

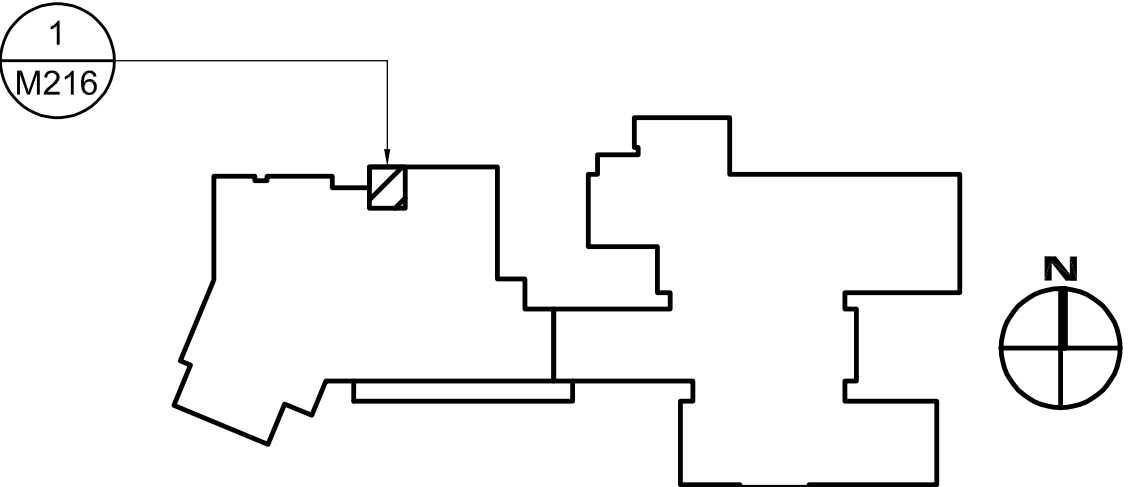
- 1 PROVIDE NEW PP-RCT 140 HW AND 140 HWC PIPING, DEMOLISH EXISTING 140 HW AND 140 HWC CPVC PIPING. REPLACE PIPE CLAMPS ON CW, HW, HW, 140 HW AND 140 HWC PIPING IN AREA INDICATED WITH CUSHION CLAMPS, WALRAVEN W5000 OR APPROVED EQUAL.
- 2 SLEEVE AND SEAL CW, HW AND HWC PIPING PENETRATION THROUGH BOILER ROOM WALL, PIPING INSULATION TO BE CONTINUOUS THROUGH WALL PENETRATION. SMOKE SEAL PENETRATION TO MAINTAIN EXISTING WALL SMOKE RESISTANCE RATING.
- 3 PROVIDE NEW ISOLATION VALVES ON CW, HW AND HWC PIPING.
- 4 REPLACE CPVC PIPING TO HWG WITH POLYPROPYLENE PP-RCT PIPING, SEE PIPING SCHEMATIC.
- 5 EXISTING PIPING ELEVATION CHANGE OCCURS ON SOUTH SIDE OF BOILER ROOM WALL.. REVISE PIPE ROUTING SO CHANGE IN ELEVATION OCCURS AFTER THERMAL EXPANSION LOOP. ADJUST, REPLACE AND PROVIDE NEW PIPING SUPPORTS AS REQUIRED FOR NEW PIPING.

**1 ENLARGED MECHANICAL ROOM PIPING REMODEL PLAN - BLOCK D**  
1/4" = 1'-0"



**ELECTRICAL SHEET NOTE:**

- E1 PROVIDE 1/2" CONDUIT WITH 3#12 AWG COPPER TYPE XHFW CONDUCTORS AND CONNECT THE NEAREST AVAILABLE CONTROL PANEL CIRCUIT. PROVIDE JUNCTION BOXES AS REQUIRED FOR A COMPLETE SYSTEM. UPDATE PANEL SCHEDULE TO REFLECT NEW TEMPERING VALVE LOAD(S).



**R S A**  
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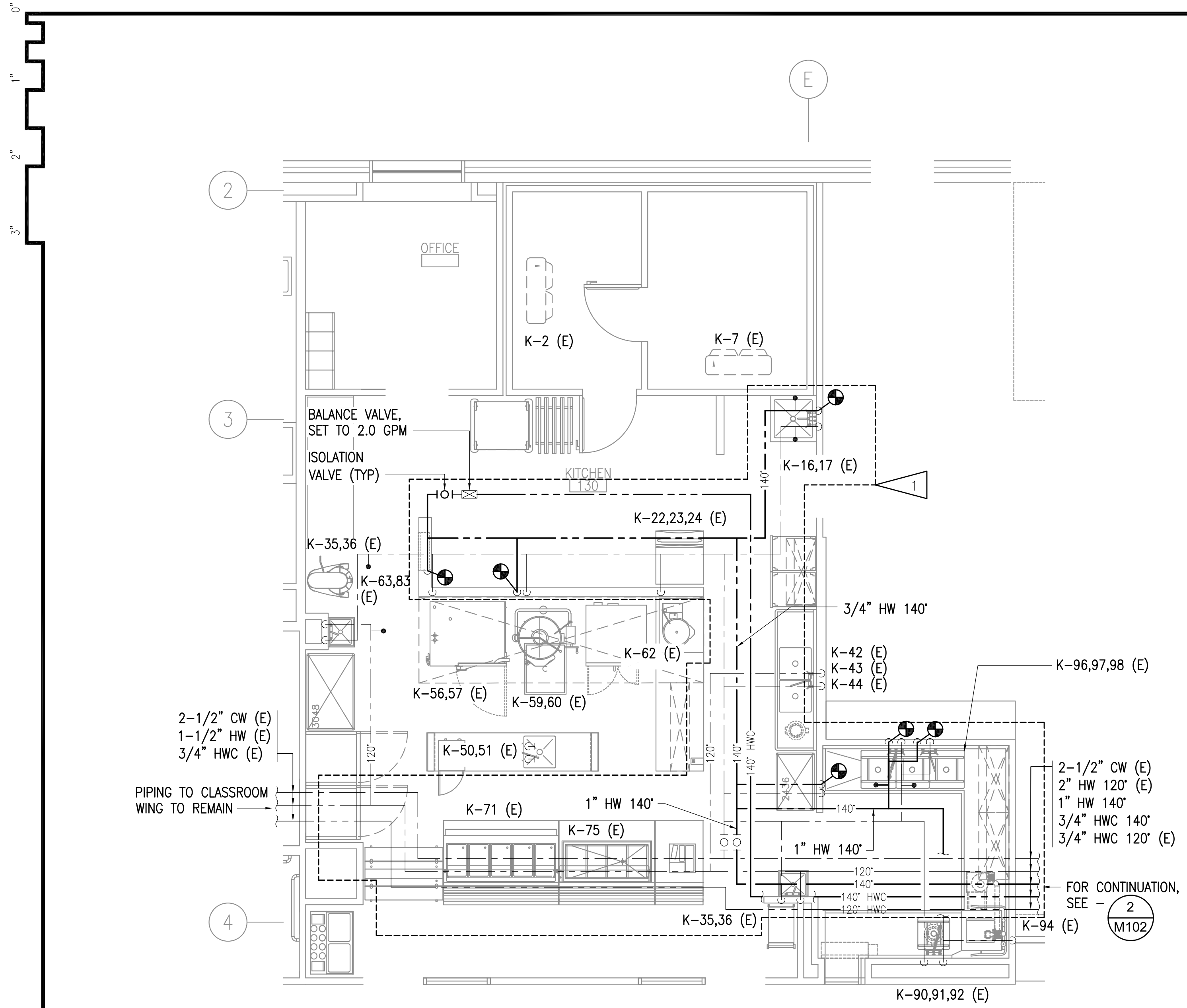
VALDEZ MS DOMESTIC WATER PIPING REPAIRS  
**GEORGE H. GILSON MIDDLE SCHOOL**  
357 ROBE RIVER DRIVE,  
VALDEZ, ALASKA 99686

REVISIONS:

DRAWN BY: CAA/BPP  
CHECKED BY: BPP  
DATE: 03/28/2021  
JOB NUMBER: M0225.00  
DWG FILE: MSERIES

DRAWING TITLE:  
ENLARGED MECHANICAL  
PIPING REMODEL PLANS

SHEET:  
**M101**



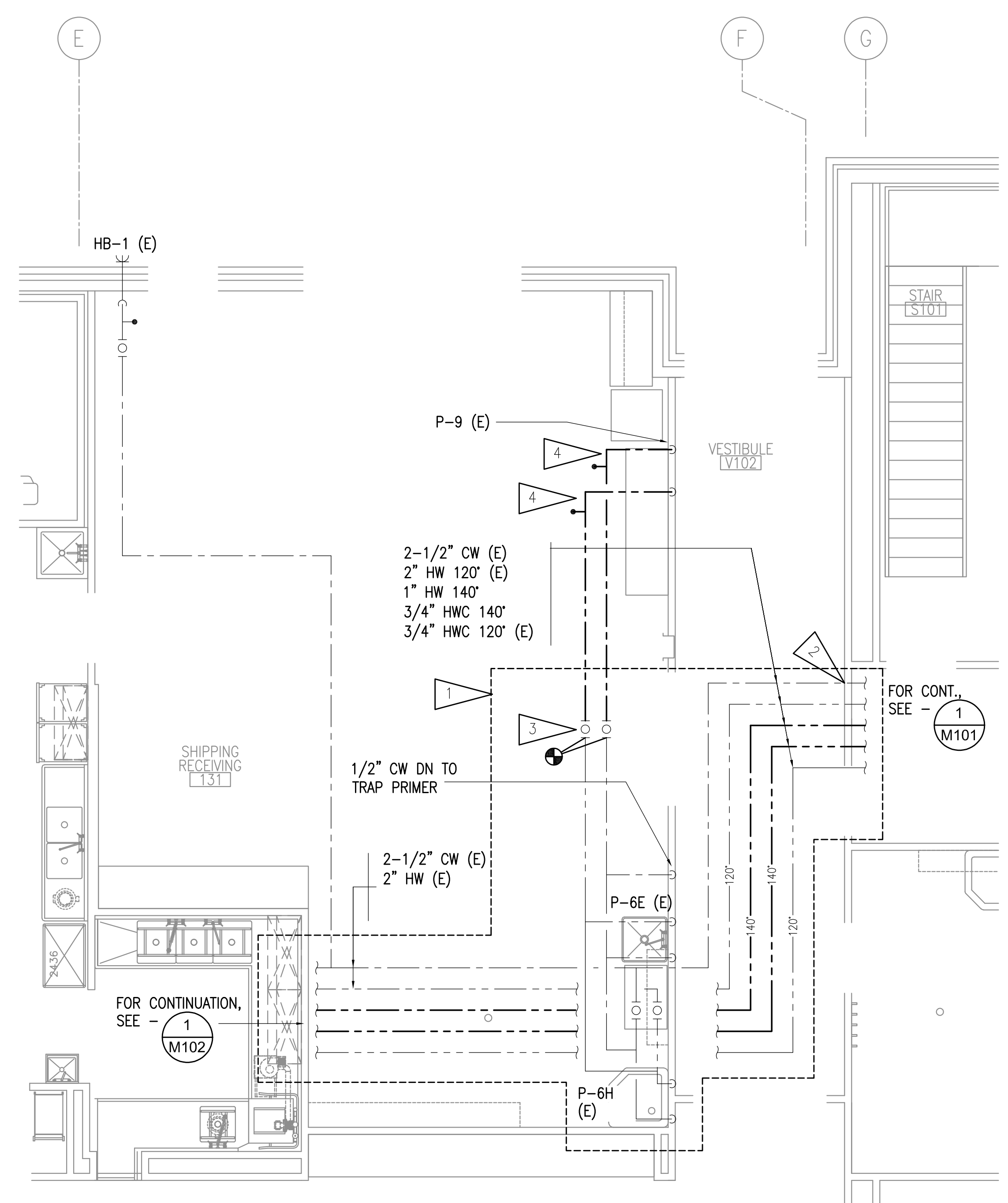
**1 ENLARGED ABOVE FLOOR PLUMBING - KITCHEN**  
1/4" = 1'-0"

**GENERAL NOTES:**

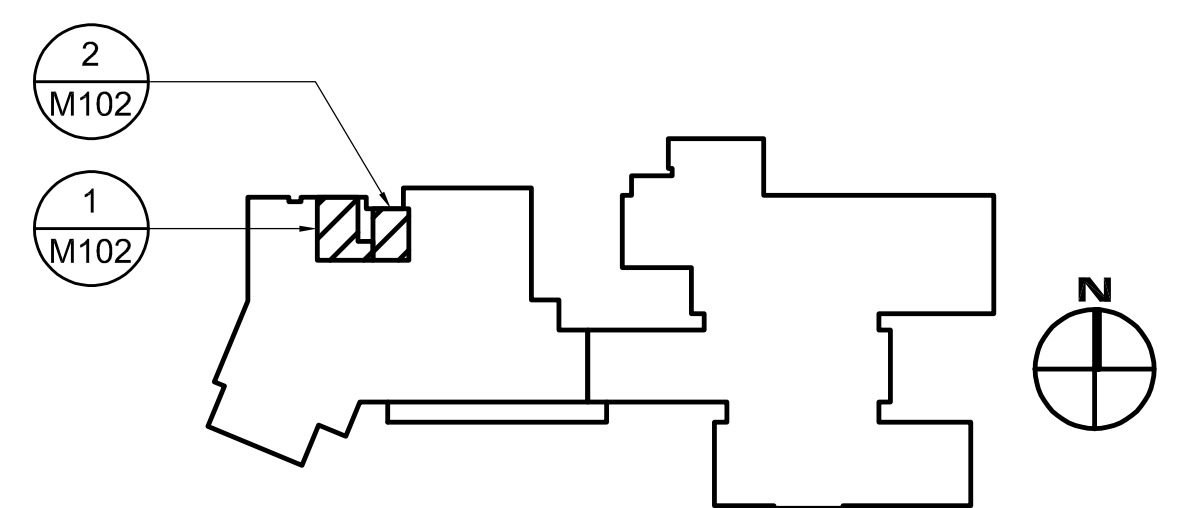
- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
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- C. WHERE NEW PIPING IS INDICATED, DEMOLISH ALL EXISTING PIPING IN ITS ENTIRETY. PROVIDE NEW INSULATION ON NEW PIPING, RE-INSULATE ADJACENT EXISTING PIPING AS REQUIRED TO PROVIDE CONTINUOUS INSULATION FROM EXISTING TO NEW PIPING.

**SHEET NOTES:**

- 1 PROVIDE NEW PP-RCT 140 HW AND 140 HWC PIPING, DEMOLISH EXISTING 140 HW AND 140 HWC CPVC PIPING. REPLACE PIPE CLAMPS ON CW, HW, HW, 140 HW AND 140 HWC PIPING IN AREA INDICATED WITH CUSHION CLAMPS, WALRAVEN W5000 OR APPROVED EQUAL.
- 2 SLEEVE AND CW, HW, HW, 140 HW AND 140 HWC PIPING PENETRATION THROUGH BOILER ROOM WALL, PIPING INSULATION TO BE CONTINUOUS THROUGH WALL PENETRATION. SMOKE SEAL PENETRATION TO MAINTAIN EXISTING WALL SMOKE RESISTANCE RATING.
- 3 PROVIDE NEW ISOLATION VALVES ON CW AND HW PIPING.
- 4 REPLACE 3/4" CW AND HW CPVC PIPING TO WASHING MACHINE OUTLET BOX WITH POLYPROPYLENE PP-RCT PIPING. NEW PIPING TO BE ROUTED EXPOSED DOWN WALL, COORDINATE WITH OWNER. PATCH AND REPAIR WALL AS REQUIRED TO MATCH EXISTING FINISHES. SUPPORT NEW PIPING WITHIN 6" OF ELBOWS.



**2 ENLARGED SHIPPING & RECEIVING PIPING REMODEL PLAN**  
1/4" = 1'-0"



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VALDEZ MS DOMESTIC WATER PIPING REPAIRS  
**GEORGE H. GILSON MIDDLE SCHOOL**  
357 ROBE RIVER DRIVE,  
VALDEZ, ALASKA 99686

REVISIONS:

DRAWN BY: CAA/BPP  
CHECKED BY: BPP  
DATE: 03/28/2021  
JOB NUMBER: M0225.00  
DWG FILE: MSERIES

DRAWING TITLE:  
ENLARGED KITCHEN,  
SHIPPING & RECEIVING  
PIPING REMODEL PLANS

SHEET:  
**M102**

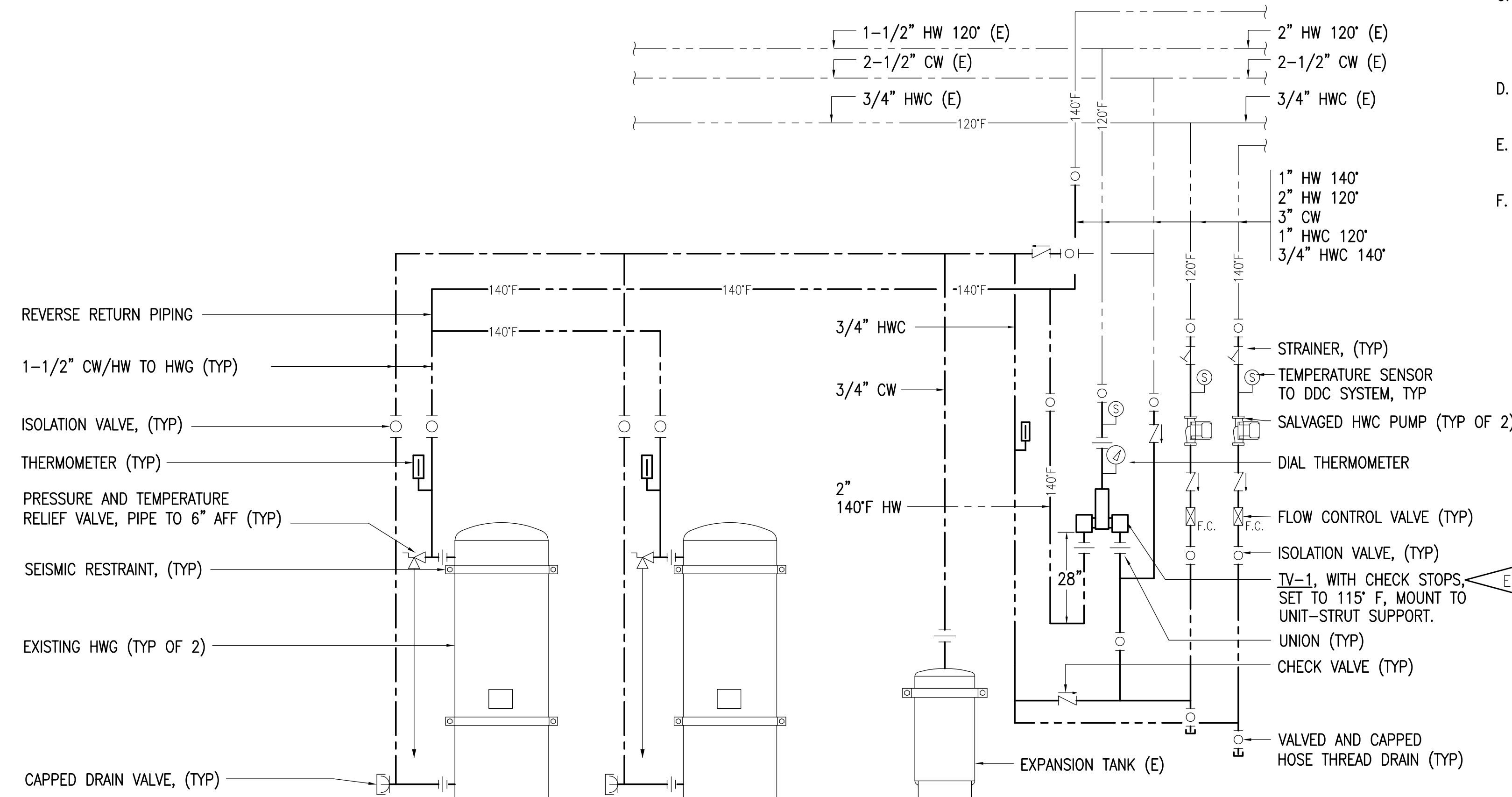
0"  
1"  
2"  
3"

**ELECTRICAL SHEET NOTE:**

E1 PROVIDE 1/2" CONDUIT WITH 3#12 AWG COPPER TYPE XHHW CONDUCTORS AND CONNECT THE NEAREST AVAILABLE CONTROL PANEL CIRCUIT. PROVIDE JUNCTION BOXES AS REQUIRED FOR A COMPLETE SYSTEM. UPDATE PANEL SCHEDULE TO REFLECT NEW TEMPERING VALVE LOAD(S).

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- C. WHERE NEW PIPING IS INDICATED, DEMOLISH ALL EXISTING PIPING IN ITS ENTIRETY. PROVIDE NEW INSULATION ON NEW PIPING, RE-INSULATE ADJACENT EXISTING PIPING AS REQUIRED TO PROVIDE CONTINUOUS INSULATION FROM EXISTING TO NEW PIPING.
- D. PROVIDE NEW PP-RCT PIPING FROM HWG TO ISOLATIONS VALVES, DEMOLISH EXISTING CPVC PIPING.
- E. REPLACE ALL EXISTING PIPE CLAMPS WITH CUSHION CLAMPS, WALRAVEN W5000 OR APPROVED EQUAL.
- F. REMOVE AND RE-INSTALL EXISTING THERMOMETER, SENSORS, PUMPS, VALVES AND STRAINERS CAN BE SALVAGED AND RE-INSTALLED OR REPLACED AT CONTRACTORS OPTION TO ALLOW FOR NEW PIPING CONNECTIONS.



**1** DOMESTIC WATER PIPING REMODEL SCHEMATIC  
NO SCALE

**RSA**

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REVISIONS:

DRAWN BY: CAA/BPP  
CHECKED BY: BPP  
DATE: 03/28/2021  
JOB NUMBER: M0225.00  
DWG FILE: MSERIES

DRAWING TITLE:  
DOMESTIC HOT WATER  
GENERATOR PIPING  
SCHEMATICS

SHEET:  
**M201**

# **VALLEY MECHANICAL CONTRACTING INC**

QUOTATION / SCOPE LETTER

6673 E Tex-Al Dr.  
WASILLA AK 99654  
(907)376-6400 - Phone  
(907)376-6500 - Fax

DATE:5/3/2022

TO: Wolverine

PROJECT: Valdez Middle School Piping Repairs

SCOPE: Div. 22 & 23

ADD. SEEN:

<b>Base Bid:</b>	<b><u>\$81,170</u></b>
------------------	------------------------

**INCLUDES:**

- Demo and re-pipe per drawings. Supply and install new TV-1
- Mechanical insulation

**EXCLUDES:**

- Any carpentry, framing, backing, patching & painting
- Any temporary utilities
- Concrete cutting, coring, removal, patching or replacement
- Any electrical wiring, motor starters or VFD's
- Any fire protection / alarms
- CO detectors / alarms
- Removal & replacement of ceilings, walls or soffits
- Asbestos / Hazardous material abatement
- Removal of demo material / construction debris from jobsite
- Cost for the use of jobsite lifting equipment
- Inspection, Permit or Bond fees
- Training video recording
- Work outside the building limit



**Making Electricity Work For You**

Kinetic Electric LLC. - 3036 Fairweather Drive - 907-255-8620  
P.O. Box 1426  
Valdez, AK 99686

**Electrical Quote**

June 20, 2022

**Customer:**

Wolverine Summit JV  
attn: Bruce Van Buskirk/Abe Horschel  
907-347-8453

**Price:** \$5,500

**Job Description:**

Valdez Schools Piping Replacement

Supply power to tempering valve from nearest control circuit or electrical panel as described on Sheet note Electrical E1.

**Exclusions:**

any control wiring or programming  
any other electrical work

**Payment:** per job specs