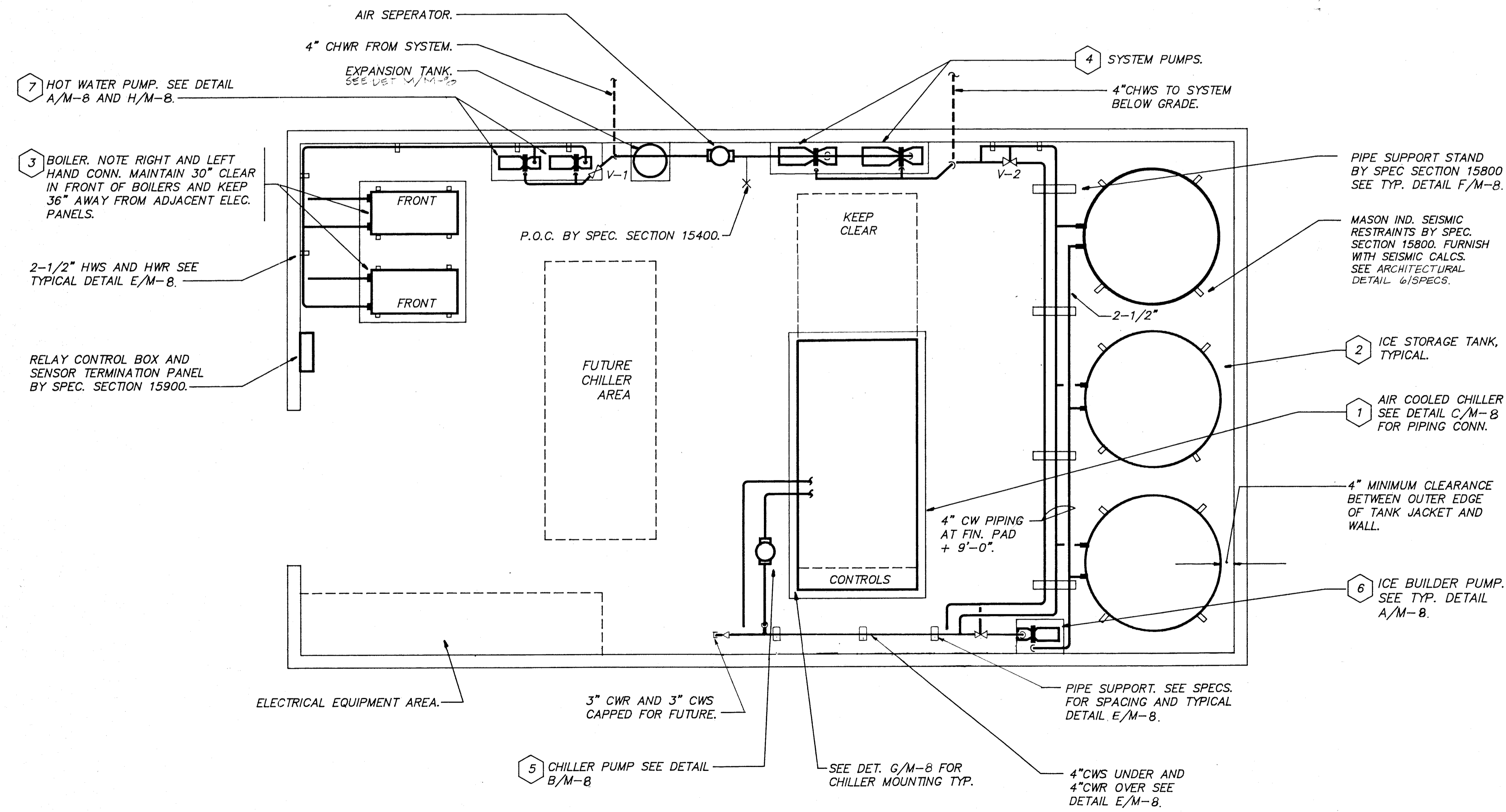


### GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
A	OUTDOOR AIR INTAKE LOUVER	WONDER-METAL MODEL L-445-F GALV. STEEL LOUVER WITH EXTERIOR MOUNTING FLANGE & BIRDSCREEN. PAINT TO MATCH EXTERIOR. PROVIDE WITH TAMPER PROOF SCREWS. LOUVERS & FRAMES TO BE 1/4 GA.
B	EXHAUST AIR LOUVER	WONDER-METAL MODEL L-145-F GALV. STEEL LOUVER WITH EXTERIOR MOUNTING FLANGE & BIRDSCREEN. PAINT TO MATCH EXTERIOR. PROVIDE WITH TAMPER PROOF SCREWS.
C	EXHAUST AIR GRILLE	BARB-AIRE 6MV SURFACE MOUNT RETURN GRILLE. COUNTERSUNK SCREW HOLES, #7 FINISH. FURNISH W/IC INDENTS.

### AIR CONDITIONING EQUIPMENT SCHEDULE

MARK	ITEM	ELECTRICAL			DESCRIPTION	OPER. WT.
		HP	VOLTS	Φ		
1	AIR COOLED CHILLER	158 RLA	460	3	McQUAY MODEL ALR-075C, COOLING 222 GPM OF WATER (WITH 25% BY WEIGHT OF INHIBITED PROPYLENE GLYCOL) FROM 30.0° TO 24.0° AT 85° AMBIENT, 15.0° MAX. W.P.D. 1.30 KW/TON MAXIMUM POWER CONSUMPTION AT SPECIFIED CONDITIONS. COMPLETE WITH TWO SEMI-HERMETIC COMPRESSORS AND DUAL INDEPENDENT REFRIGERATION CIRCUITS W/TOTAL UNLOADING TO 29% OF FULL-LOAD, COMPRESSOR LEAD-LAG SWITCH, CONTROL TRANSFORMER, WATER FLOW SWITCH, COMPRESSOR LOCK-OUT TIMER, CONDENSER COIL GUARD, SINGLE POINT POWER CONNECTION, PART-WINDING START, AND PHASE FAILURE/REVERSAL CUT-OUT. UNIT SHALL BE EQUIPPED FOR ICE BUILDING OPERATION AND HAVE DUAL SETPOINT CAPABILITY -- STANDARD MODE SHALL BE NON-ICE BUILDING WITH THE CONTROL DEENERGIZED. FACTORY START-UP BY CHILLER MANUFACTURER. 9.7 MINIMUM EER AT ARI STANDARD 590 RATING CONDITIONS. SEE SPECIFICATIONS FOR COMPLETE DESCRIPTION.	6000
2	ICE STORAGE TANK	-	-	-	CALMAC LEVELLOAD MODEL 1190, WITH CAPACITY FOR 190 TOTAL TON-HOURS. 12.0 PSI MAXIMUM W.P.D. AT 80 GPM OF 24.0° AVERAGE CHARGING WATER. COMPLETE W/2" BOTTOM INSULATION PAD AND ALUMINUM OUTER COVER. SEE SPECS FOR COMPLETE DESCRIPTION. TANK CAPACITY SHALL MEET ABOVE SPECIFIED CONDITIONS BUT FLOW SHALL BE ADJUSTED TO 56 GPM AT THIS TIME AND SHALL CHARGE TO 162 LATENT TON-HOURS IN 12 HOURS CHARGING TIME. TANK SHALL BE 100% NON-FERROUS AND CAPABLE OF FREEZING SOLID WITHOUT DAMAGE. PROVIDE ONE LEVEL-LOAD ICE INVENTORY METER FOR ENTIRE SYSTEM WITH 4-20 MA TRANSDUCER FOR OUTPUT.	17000
3	BOILER	10 FLA	120	1	RAYPAK MODEL H-1083 OUTDOOR BOILER, HEATING 70 GPM OF WATER FROM 140° TO 165° 7.0° W.P.D. 1,083,000 BTUH INPUT AND 866,000 BTUH OUTPUT HEATING CAPACITY, NATURAL GAS. COMPLETE WITH 5-YEAR LIMITED HEAT EXCHANGER WARRANTY, ECONOMASTER PUMP TIME DELAY, FLOW SWITCH, PRESSURE RELIEF VALVE, CONTROL TRANSFORMER, 2-STAGE GAS VALVE, AND ACCESSORIES PER CALIFORNIA CODE. A.G.A. CLASSIFIED AND ASME STAMPED.	750
4	SYSTEM PUMP	7.5	460	3	PACO TYPE L, MODEL 2595, CENTRIFUGAL PUMP DELIVERING 160 GPM @ 77' TDH, 77% EFFICIENCY, 1750 RPM. PUMP SHALL BE NON-OVERLOADING THROUGHOUT ENTIRE CURVE. COMPLETE WITH MECHANICAL SEALS, SUCTION AND DISCHARGE GAUGE FITTINGS.	400
5	CHILLER PUMP	3	460	3	PACO TYPE VL, MODEL 3070-7, CENTRIFUGAL IN-LINE PUMP DELIVERING 222 GPM @ 36' TDH, 73% EFFICIENCY, 1750 RPM. COMPLETE WITH MECHANICAL SEALS, SUCTION AND DISCHARGE GAUGE FITTINGS. UNIT SHALL BE CAPABLE OF HANDLING A WATER/GLYCOL MIXTURE AT 24°.	250
6	ICE BUILDER PUMP	5	460	3	PACO TYPE L, MODEL 3095-5, CENTRIFUGAL PUMP DELIVERING 222 GPM @ 45' TDH, 72% EFFICIENCY, 1750 RPM. COMPLETE WITH MECHANICAL SEALS, SUCTION AND DISCHARGE GAUGE FITTINGS. UNIT SHALL BE CAPABLE OF HANDLING A WATER/GLYCOL MIXTURE AT 24°.	200
7	BOILER PUMP	1	460	3	PACO TYPE L, MODEL 1570-5, CENTRIFUGAL PUMP DELIVERING 70 GPM @ 26' TDH, 70% EFFICIENCY, 1750 RPM. PUMP SHALL BE NON-OVERLOADING THROUGHOUT ENTIRE CURVE. COMPLETE WITH MECHANICAL SEALS, SUCTION AND DISCHARGE GAUGE FITTINGS.	125
8	UNIT VENTILATOR	1/6	120	1	AMERICAN AIR FILTER MODEL AV-6000 FOR 2-PIPE WATER SYSTEM, 1500 CFM, DIRECT DRIVE 3-SPEED MOTOR. 45,000 BTUH TOTAL AND 35,900 BTUH SENSIBLE COOLING CAPACITY AT 80/65 ENTERING AIR WITH 12 GPM OF 45° ENTERING WATER/GLYCOL SOLUTION. 9.0 MAXIMUM WATER PRESSURE DROP. 65,000 BTUH HEATING CAPACITY WITH 6.0 GPM OF 140° HOT WATER. UNIT COMPLETE WITH FACTORY MOUNTED ECONOMIZER DAMPERS, SAMPLING TUBE. TYPE "6" CABINET WITH FALSE BACK. SEE SPECIFICATION.	700
9	UNIT VENTILATOR	1/6	120	1	AAF MODEL AV-5000 FOR 2-PIPE CHILLED/HOT WATER SYSTEM, 1250 CFM, DIRECT DRIVE 3-SPEED MOTOR. 36,000 BTUH TOTAL AND 27,000 BTUH SENSIBLE COOLING CAPACITY AT 80/64 ENTERING AIR WITH 9.0 GPM OF 45° ENTERING WATER/GLYCOL SOLUTION. 7.0 MAXIMUM WATER PRESSURE DROP. 50,000 BTUH HEATING CAPACITY WITH 6.0 GPM OF 140° HOT WATER. UNIT COMPLETE WITH FACTORY MOUNTED ECONOMIZER DAMPERS, SAMPLING TUBE, 5 YEAR UNIT PARTS WARRANTY AND A MINIMUM OF 6.0 SQUARE FEET OF O.A. FILTER AREA. TYPE "6" CABINET WITH FALSE BACK. SEE SPECIFICATIONS.	650
10	FAN COIL	3.3 FLA	120	1	McQUAY MODEL TSF-121D 2 PIPE CHILLED HOT WATER SYSTEM. 1180 CFM, DIRECT DRIVE, 3-SPEED MOTOR. 33,500 BTUH TOTAL AND 28,000 BTUH SENSIBLE COOLING CAPACITY @ 80/63 E.A.T. WITH 6.9 GPM OF 45° WATER/GLYCOL SOLUTION. 14.0' MAXIMUM WATER PRESSURE DROP. 48,000 BTUH HEATING CAPACITY WITH 4.5 GPM OF 140° ENTERING HOT WATER. COMPLETE WITH FALSE BACK, 1" THROW AWAY FILTER, AND FRESH AIR INTAKE.	250
11	FAN COIL	2.0 FLA	120	1	McQUAY MODEL TSF-101D 2 PIPE CHILLED HOT WATER SYSTEM. 940 CFM, DIRECT DRIVE, 3-SPEED MOTOR. 28,000 BTUH TOTAL AND 23,000 BTUH SENSIBLE COOLING CAPACITY @ 80/63 E.A.T. WITH 5.7 GPM OF 45° WATER/GLYCOL SOLUTION. 9.0" MAXIMUM WATER PRESSURE DROP. 44,800 BTUH HEATING CAPACITY WITH 4.0 GPM OF 140° ENTERING HOT WATER. COMPLETE WITH FALSE BACK, 1" THROW-AWAY FILTER, AND FRESH AIR INTAKE.	225



## MECHANICAL EQUIPMENT ENCLOSURE

SCALE: 1/4"=1'-0" A  
M-2

- NOTES:
1. PIPING LAYOUT SHOWN ABOVE IS DIAGRAMATIC.
  2. CONTRACTOR TO PROVIDE COMPLETE SYSTEM PIPING ISOMETRIC FOR REVIEW ALONG WITH EQUIPMENT AND MATERIAL SUBMITTALS.
  3. PIPING SHALL BE INSTALLED TO MAINTAIN AT NET 2" CLEARANCE BETWEEN INSULATION SURFACES OF PIPING AND ADJACENT WALLS.

**MUNSEY SCHOOL MODERNIZATION**  
 BAKERSFIELD CITY SCHOOL DISTRICT  
 BAKERSFIELD, CALIFORNIA

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