

Kitchen Equipment Schedule												
Mark	Description	Manufacturer &	Plu	umbing (Connectic	ons	Electrical	Remarks - Refer to 114000				
IVIAIK	Description	Catalog Number	Cold	Hot	Waste	Vent	Electrical	Remarks - Relef to 114000				
K-1	DISHWASHER	ADS HT-25/34 W/ BUILT ON BOOSTER HEATER		3/4"		ECT TO R SINK	208/240v / 3 ph 60 Hz / 12 kw Heater 50 Amp Breaker					
K-1.2	BOOSTER HEATER	ADS HT-25/34 W/ BUILT ON BOOSTER HEATER		3/4"			208/240v / 3 ph 60 Hz / 12 kw Heater 50 amp Breaker					
K-2	DISHTABLE WITH INTEGRAL TROUGH & STRAINER	CUSTOM FABRICATED REFER TO DETAILS			INDIRE FLOOF			SEE DETAILS 1 AND 6, SHEET A-3.11.				
K-3	GARBAGE DISPOSER	'INSINKERATOR' SS-300	1/2"		3"	2"	208v / 3 ph / 6 amp	PROVIDE WITH SHORT BODY AND CC-101 CONTROL CENTER.				
K-4	PRE-RINSE UNIT	'T&S BRASS & BRONZE' B-0133-B WITH B-0155 W/ SWING NOZZLE SIZED TO SINKS	1/2"	1/2"				PROVIDE WITH B-109 WALL BRACKET AND HAND WASH FAUCET. 60" STAINLESS STEEL HOSE.				
K-5	HOT FOOD CABINET (2)	'METRO' C539-CDC					120v / 16 A 60Hz, 2000W	DUTCH DOORS W/ SWINGS PER PLAN. INSULATED, HOLDING AND PROOFING. NEMA 5-20P.				
K-6	REACH-IN REFRIGERATOR	'BEVERAGE-AIR' HRS2HC-1G					115v / 60 / 1ph	DOUBLE DOORS, GLASS DOORS, NEMA 5-15-P PLUG				

Kitchen Equipment Notes

- ALL SHOP AND FIELD JOINTS IN STAINLESS STEEL. TOPS OF DISHTABLES K-2, K-15, AND K-21, PREP COUNTERS K-14 AND K-15, AND SERVING COUNTER K-22, SHALL BE CONTINUOUSLY WELDED WITH STAINLESS STEEL ROD AND GROUND SMOOTH TO FORM A SEAMLESS TOP, PROVIDE SOUND DEADENING PER SPECIFICATIONS.
- MECHANICAL CONTRACTOR SHALL RUN SUPPLY, WASTE AND VENT PIPING TO AND SHALL MAKE CONNECTIONS TO ALL ITEMS OF KITCHEN EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL RUN CONDUIT AND CONDUCTORS TO AND SHALL PROVIDE J-BOXES, OUTLETS, BREAKERS, ETC. FOR ALL ITEMS OF KITCHEN EQUIPMENT AND SHALL MAKE CONNECTIONS TO ALL ITEMS OF KITCHEN EQUIPMENT.
- 4. KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE AND PLUMBING CONTRACTOR SHALL INSTALL ALL FAUCETS, DRAINS, TRAPS, STRAINERS, ETC. FOR SINKS IN KITCHEN EQUIPMENT ITEMS K-2, K-14, AND K-21.
- ALL KITCHEN EQUIPMENT SHALL BE NSF APPROVED. ITEMS K-2, K-14, K-15, K-21, AND K-22 SHALL BE CONSTRUCTED IN ACCORDANCE WITH NSF STANDARDS.
- CONDENSING UNITS FOR ITEMS K-16 AND K-17 SHALL BE LOCATED ON THE ROOF. REFER TO MECHANICAL AND ROOF PLAN. EACH CONDENSING UNIT SHALL BE PROVIDED WITH MANUFACTURER'S STANDARD: A. WEATHERPROOF CONTROLS
- B. PUMP DOWN CYCLE
- C. HEAD PRESSURE CONTROL VALVE D. CRANKCASE HEATER
- E. LEGS AND PLATFORM FOR ROOF MOUNTED INSTALLATION. SEE MECHANICAL FOR DETAIL. F. PROTECTIVE STEEL COVER
- 7. PRE-FABRICATED COOLER / FREEZER PANELS TO MEET REQUIREMENTS OF INTERNATIONAL BUILDING CODE.
- 8. ITEMS K-16 AND K-17 SHALL MEET THE FOLLOWING CRITERIA: A. SIZES SHALL BE AS SHOWN ON THE DRAWINGS AND HEIGHT SHALL BE 8'-6" CLEAR INSIDE. B. WALLS SHALL BE 4" THICK R-34. ROOF (CEILING) PANELS SHALL MATCH WALL PANELS. FINISH OF PANELS SHALL BE: OUTSIDE - 26 GA. EMBOSSED GALVANIZED STEEL WITH BAKED ON POLYESTER ENAMEL (WHITE). 1.
- INSIDE 0.032" EMBOSSED ALUMINUM. 2. C. CONCRETE FLOOR SLAB SHALL BE RECESSED TO ACCOMMODATE INSULATED FLOOR PANELS. FLOOR PANELS SHALL HAVE A STAINLESS
- STEEL FINISH OVER 3/4" O.S.B. SUBFLOOR BACKING. THICKNESS OF FLOOR PANELS SHALL BE 4" TOTAL. D. DOORS SHALL BE STANDARD INFITTING OVER LAP TYPE, 36"x80". E. PROVIDE ALL ACCESSORIES AND COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERATIONAL COOLER / FREEZER INSTALLATION,
- MEETING ALL APPLICABLE CODES, REGULATIONS, AND STANDARDS. F. ENCLOSURES SHALL BE LISTED BY THE NATIONAL SANITATION FOUNDATION (N.S.F.) STANDARD #7 AND SHALL BEAR THE N.S.F. SEAL OF
- APPROVAL. G. PROVIDE 26 GA. STAINLESS STEEL CLOSURE STRIP AT TOP OF FREEZER / COOLER UNITS TO TERMINATE AT SUSPENDED CEILING. AND AT GAPS BETWEEN ADJACENT WALLS.
- H. PROVIDE A SINGLE WALL PANEL BETWEEN THE FREEZER AND COOLER UNITS. I. GROUT BETWEEN FLOOR SLAB AND COOLER / FREEZER UNIT PER MANUFACTURERS SPECS.
- 9. SEE SPECIFICATIONS FOR ADDITIONAL EQUIPMENT REQUIREMENTS.

Mark	Description	Manufacturer &	Plu	umbing (Connectio	ns		Demortes Defer to 114000			
Mark	Description	Catalog Number	Cold	Hot	Waste	Vent	Electrical / Gas	Remarks - Refer to 114000			
K-7	STEAM DROP-IN (2)	'ADVANCE TABCO' SLIMLINE DISLSW-2-240					208v / 3.94 amp 1600W	PROVIDE CUT-OUT FOR UNIT IN COUNTER K-22. PROVIDE DRAIN PLUG AND SPILLAGE PANS SP-S NEMA 6-20P PLUG			
K-8	ICE MAKER / ICE BIN	'MANITOWOC' RNP0620A W/ D-420 BIN	1/2"		INDIRE FLOOF		115v / 60 / 1ph 1 HP / 20 amp	PROVIDE WITH WATER FILTER			
K-9	DOUBLE STACK CONVECTION OVEN (2)	'VULCAN' VC44GD			INDIRE FLOOF		120v / 60 / 1ph 15.4 amp (2) 3/4" GAS				
K-10	MIXER 30 QUART	'HOBART' HL300-1STD			INDIRE FLOOF		120v / 60 / 1ph 15.4 amp / GAS	PROVIDE WITH STANDARD ACCESSORY PACKAGE, SLICER / GRATER ATTACHMENT, AND BOWL TRUCK. NEMA 5-15 PLUG			
K-11	MIXER 60 QUART	'HOBART' HL600-1STD					200-240v / 50 / 60 / 3 PH / 20 amp	PROVIDE WITH STANDARD ACCESSORY PACKAGE, SLICER / GRATER ATTACHMENT, AND BOWL TRUCK			
K-12	S.S. TABLE 30" x 72"	'DUKE' 314S-3072S						PROVIDE WITH SPECIAL HEIGHT LEGS (SP-HT-LEGS OPTION, 2'-10" TOTAL HEIGHT, (3) NO. 731 DRAWERS AND UNDERSHELF.			
K-13	S.S. TABLE 30" x 60" (2)	'DUKE' 314S-3060					PROVIDE WITH SPECIAL HEIGHT LEGS (SP- OPTION, 2'-10" TOTAL HEIGHT, (3) NO. 731 D AND UNDERSHELF.				
K-14	S.S. COUNTER WITH INTEGRAL DBL. SINK	CUSTOM FABRICATED REFER TO DETAILS			INDIRE FLOOF			PROVIDE WITH 'DUKE' 314659 DRAINS. REFER TO MECHANICAL FOR PIPING SIZES AND LOCATIONS.			
K-15	S.S. COUNTER(S) PER PLAN	CUSTOM FABRICATED REFER TO DETAILS									
K-16	WALK-IN COOLER	'KOLPAK' 4" PANELS			INDIRE FLOOF		208v / 60 / 1ph 16.4 AMPS 1 1/2 H.P.	REFER TO SPECIFICATION AND KITCHEN EQUIPMEN NOTES.			
K-17	WALK-IN FREEZER	'KOLPAK' 4" PANELS			INDIRE FLOOF		208v / 60 / 3ph 19.6 AMPS 2 1/2 H.P.	REFER TO SPECIFICATION AND KITCHEN EQUIPME NOTES.			
K-18	SINGLE STACK COMBI-OVEN (2)	'RATIONAL' ICOMBI PRO 20 - HALF NG	1/2"				120v / 15 AMP 1" GAS	DOOR SWINGS PER PLAN.			
K-19	STEAM KETTLE WITH DRAIN STAND (2)	'CLEVELAND' KGT12T W/ ST-28	1/2"	1/2"	INDIRE FLOOF		120v / 1 ph 5 amp 3/4" GAS	2" TANGENT DRAW OFF VALVE WITH DRAIN STRAINER. HOT AN COLD WATER FAUCET WITH SWING SPOUT AND MOUNTING BRACKET. KETTLE ACCESSORY KIT AND SPRING ASSISTED COVER AND COOKING BASKETS. W/ ST-28 EQUIP. STAND			
K-20	WIRE SHELVING UNIT(S) PER PLAN, FLOOR TYPE	'METRO' SUPER ERECTA						4-TIER UNLESS NOTED OTHERWISE, EPOXY COATED WITH MICOBAN PROTECTION. ALUMINUM SPLIT SLEEVES AT COOLER / FREEZER SHELVING.			
K-21	S.S. COUNTER WITH INTEGRAL TRIPLE SINK	CUSTOM FABRICATED REFER TO DETAILS			INDIRE FLOOF			PROVIDE WITH 'DUKE' 314659 DRAINS. REFER TO MECHANICAL FOR PIPING SIZES AND LOCATIONS.			
K-22	S.S. SERVING COUNTER, CONTINOUS	CUSTOM FABRICATED REFER TO DETAILS						PROVIDE SNEEZE GUARD MOUNTING PLATES AND CUTOUTS FOR DROP-IN STEAM WELLS.			
K-23	WALL SHELF(S) W / POT HOOKS PER PLAN	'JOHN BOOS'						14 GA. 12" DEEP x LENGTH INDICATED			
K-24	CAN RACK 35" X 77" TALL	'LAKESIDE' 335									
K-25	PEDESTAL POT AND KETTLE FILLER	'T&S BRASS & BRONZE' B-0187	1/2"	1/2"							
K-26	FOOD SLICER (TABLE TOP)	'HOBART' HS-7					120v / 60 / 1ph 5.6 amp	5-15P NEMA PLUG			
K-27	PRE-RINSE UNIT (2)	'T&S BRASS & BRONZE' B-0133-B WITH B-0155 W/ SWING NOZZLE SIZED TO SINKS	1/2"	1/2"				PROVIDE WITH B-109 WALL BRACKET AND HAND W/ FAUCET.			
K-28	DOUBLE SINK MIXING FAUCET	'T&S BRASS & BRONZE' B-0187	1/2"	1/2"							
K-33	SNEEZE GUARD (4)	'BSI' XG3500-3 W/ SSU5-H						THROUGH COUNTER MOUNTING. SEE PLAN DETAIL SHEET A-3.11.			
K-34	MOBILE DRYING RACK	'METRO' PR48VX3-XDR									
K-35	RESTROOM SHELVING (10)	CUSTOM FABRICATED REFER TO DETAILS						SEE DETAIL 8, SHEET A-9.3. SEE RESTROOM PLANS FOR LOCATIONS.			
K-36	S.S. TABLE 30" x 60"	'DUKE' 314-3072						PROVIDE WITH SPECIAL HEIGHT LEGS (SP-HT-LEGS OPTION, 2'-10" TOTAL HEIGHT AND (2) INGREDIENT BINS (5027).			
K-37	ABOVE COUNTER ICE MAKER / DISPENSER W/ WATER FILTER	'MANITOWOC' CNF02O1A W/ AR-10000-P	_	1/2"	INDIRE FLOOF	CT TO R SINK	115v / 60 / 1ph 10.3 amp	INSTALL (1) IN FACULTY ROOM 145. NEMA 5-15P PL			

General Notes

- EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF CONCRETE FOUNDATION WALL / CMU / BRICK VENEER UNLESS NOTED OTHERWISE OR UNLESS CENTERLINE DESIGNATION (----IS INDICATED.
- INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE OR UNLESS CENTERLINE (-----) DESIGNATION IS INDICATED.
- SEE SHEET A-1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY. 4. SEE SHEET A-4.1 FOR ROOM FINISH SCHEDULE.
- SEE SHEETS A-4.2 AND A-4.3 FOR DOOR SCHEDULE AND DOOR AND WINDOW TYPES.
- FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS, BOTH NEW AND EXISTING, AND AT OTHER LOCATIONS AS SPECIFIED. SEE SPECIFICATIONS.
- FURNISH AND INSTALL WINDOW BLINDS. SEE SHEETS A-4.2 AND A-4.3.
- 8. SEE SHEET A-9.1 FOR SPECIALTY ITEM MOUNTING HEIGHTS. 9. SEE SHEETS A-8.6 AND A-8.7 FOR WALL TYPES (EWT-?)) (IWT-?))

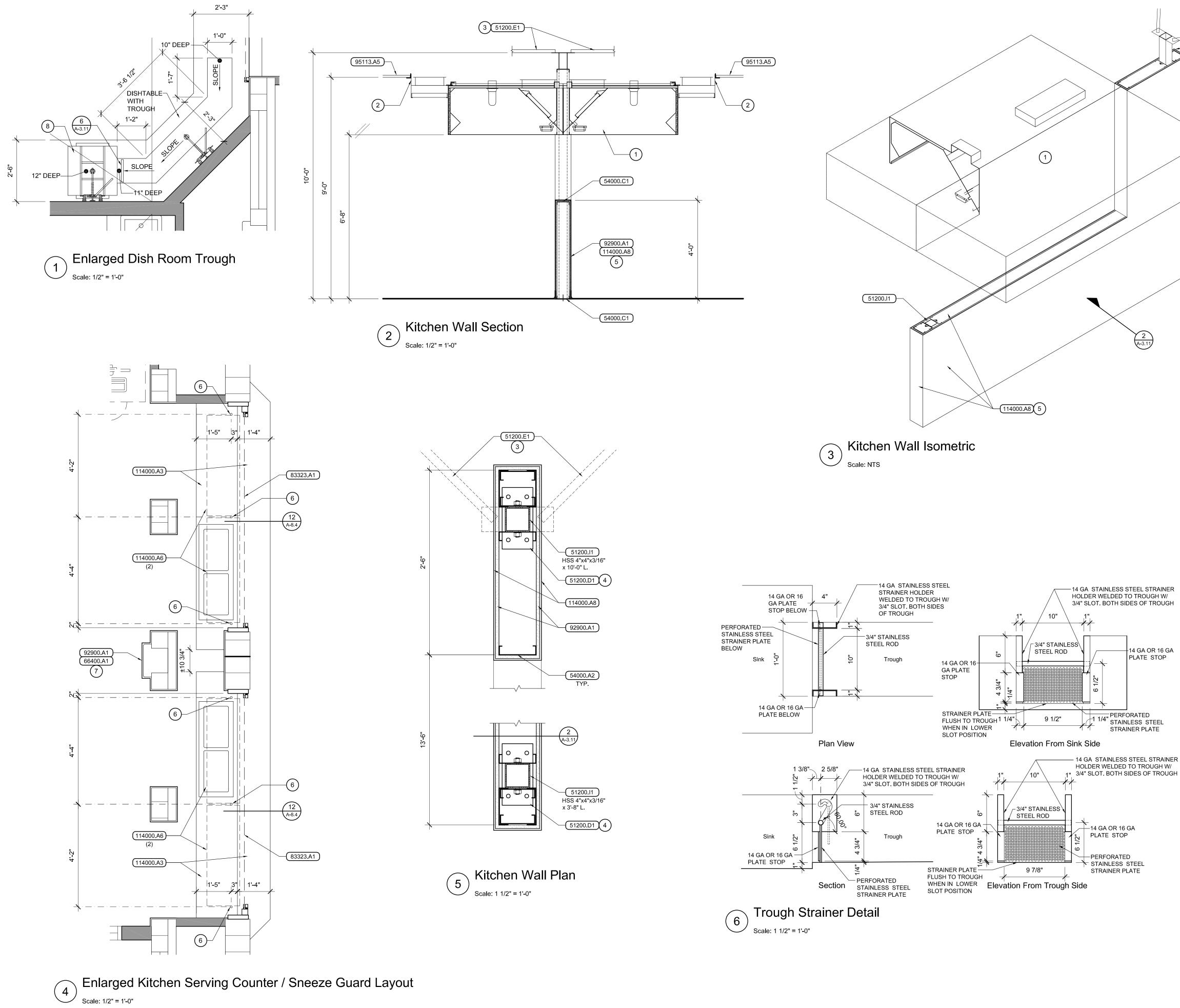
Reference Notes

- (1)KITCHEN HOOD CONTROLS. 2 OWNER FURNISHED AND INSTALLED FURNITURE / EQUIPMENT (N.I.C.). PEDESTAL FILL STATION AND TRENCH DRAIN, SEE PLUMBING FOR 3 TRENCH DRAIN. (4)MILK CRATE STORAGE AREA. (5) EXISTING CMU WALL ROUGH OPENING. (6) DIMENSIONS TO INSIDE FACE OF EXISTING MASONRY WALL. $\overline{7}$ CUSTOM STAINLESS STEEL SNEEZE GUARD MOUNTING PLATES REQUIRED FOR ATTACHMENT OF SNEEZE GUARDS. 8 10" DIA. WASTE HOLE IN COUNTER WITH 1" STAINLESS STEEL COLLAR. (9)STAINLESS STEEL TRIPLE SINK. (3) 2'-4" x 2'-0" x 1'-2" DEEP. (10)STAINLESS STEEL DOUBLE SINK. (2) 1'-8" x 1'-8" x 1'-2" DEEP. VERIFY REQUIRED KITCHEN FIRE EXTINGUISHER SIZE WITH LOCAL AUTHORITIES AND PROVIDE INCREASED CABINET SIZE AS (11) REQUIRED. PROVIDE SIGNAGE WITH FIRE EXTINGUISHER TYPE. (12)FURNISH DOOR WITH PEEPHOLE. (13) STAINLESS STEEL CLOSURE. (14)CMU WALL ROUGH OPENING W/ EXISTING INFILL.
- (15) STAINLESS STEEL TROUGH SINK WITH STAINLESS STEEL REMOVABLE GUIDE ASSEMBLY . 2'-0" x 2'-0" x 1'-0" DEEP.

Keyed Notes

DIVISION ?	10 - SPECIALTIES								
102600.A1	CORNER GUARD, 90°, 4'-0"								
102800.K1 102800.H1	SHELF / MOP HOLDER COAT / TOWEL HOOK								
104413.A1	FIRE EXTINGUISHER CABINET, SEMI-RECESSED								
DIVISION 2	DIVISION 22 - PLUMBING								
220100.K1 220100.L1	LAVATORY SINK								

ARCHITECT 2400 ERIVERWALK DRIVE BOISE, IDAHO 83706 WWW.LKVARCHITECTS.COM 208.336.3443	S
PRELIMINAR NOTFOR CONSTRUCTIO	
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Jefferson Elementary School Addition and Remodel	
DATE: February 10, 2023 LKV PROJECT #:- REVISIONS: DRAWN BY: MS CHECKED BY: WT	-
Conceptual Design DRAWING NO. A-3.7	-



General Notes

- 51200.11

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- INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE OR UNLESS CENTERLINE (-----) DESIGNATION IS INDICATED.
- SEE SHEET A-1.1 FOR CODE COMPLIANCE FLOOR PLAN AND BUILDING CODE COMPLIANCE SUMMARY. 4. SEE SHEET A-4.1 FOR ROOM FINISH SCHEDULE.
- SEE SHEETS A-4.2 AND A-4.3 FOR DOOR SCHEDULE AND DOOR AND WINDOW TYPES.
- 6. FURNISH AND INSTALL INTERIOR SIGNS AT ALL INTERIOR DOORS, BOTH NEW AND EXISTING, AND AT OTHER LOCATIONS AS SPECIFIED. SEE SPECIFICATIONS.
- 7. FURNISH AND INSTALL WINDOW BLINDS. SEE SHEETS A-4.2 AND A-4.3
- 8. SEE SHEET A-9.1 FOR SPECIALTY ITEM MOUNTING HEIGHTS. 9. SEE SHEETS A-8.6 AND A-8.7 FOR WALL TYPES (EWT-?)) (IWT-?)).

Reference Notes

- 1 KITCHEN HOOD. SEE MECHANICAL.
- 2 STAINLESS STEEL SHROUD TO CEILING AS REQUIRED BY HOOD INSTALLER.
- 4"x4"x1/8" HORIZONTAL BRACE ANGLE TO STORAGE 154 WALL AT +10'-0" A.F.F. 3
- 4 5"x10" BASE P CONCRETE. 5"x10" BASE PLATE WITH (4) 5/8" DIA. EPOXY ANCHORS INTO
- 5 ALL EXPOSED SURFACES.
- THROUGH-COUNTER MOUNTING OF SNEEZE GUARD LEGS. 6 CUSTOM STAINLESS STEEL FABRICATOR TO PROVIDE UNDER COUNTER MOUNTING PLATES PER SNEEZE GUARD MANUFACTURERS RECOMMENDATIONS.
- FRP OVER GYPSUM BOARD ALL (4) SIDES, TYP. MASTIC GYPSUM BOARD TO MASONRY 7
- STAINLESS STEEL TROUGH SINK WITH STAINLESS STEEL 8 REMOVABLE GUIDE ASSEMBLY . 2'-0" x 2'-0" x 1'-0" DEEP.

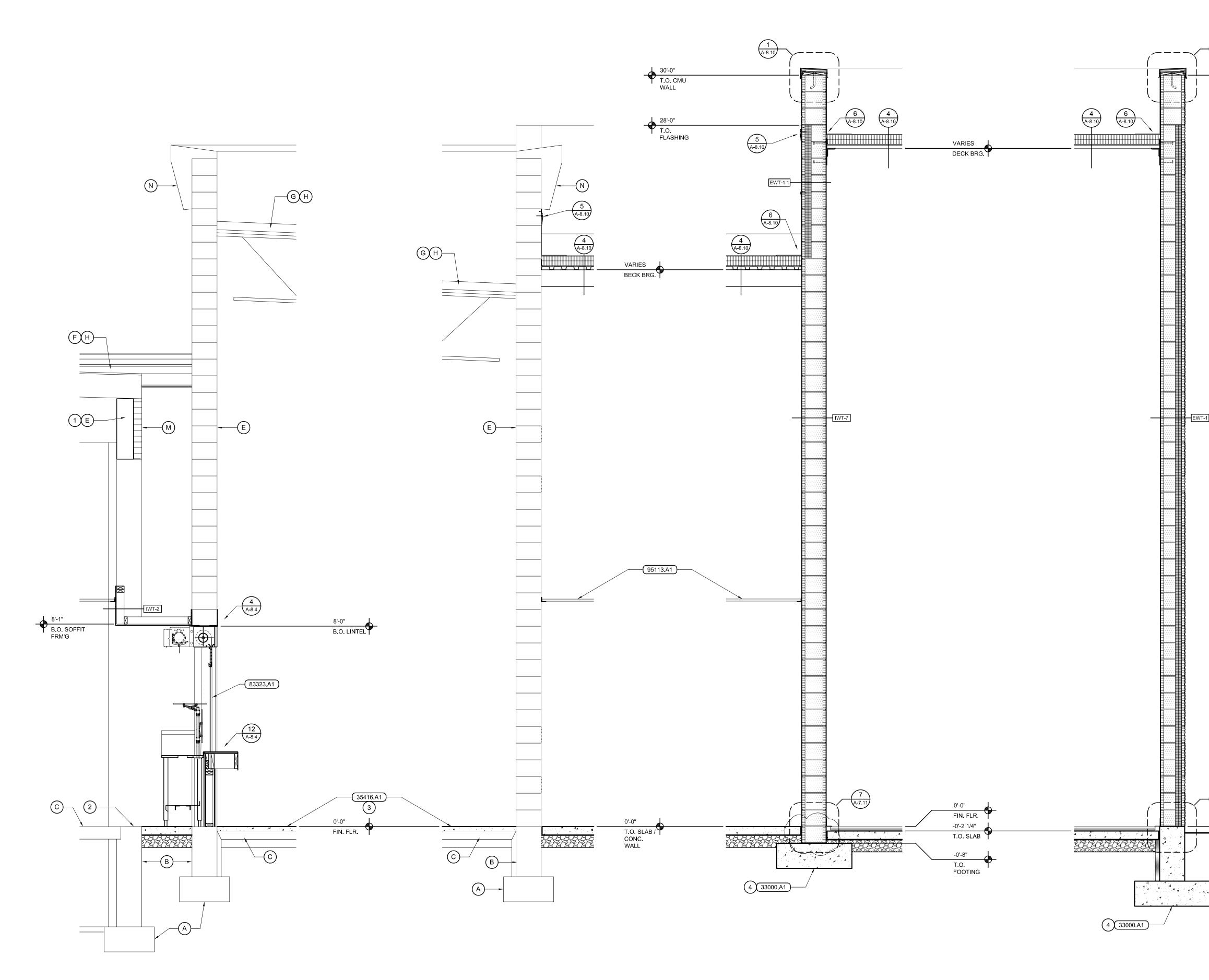
Keyed Notes

DIVISION 5	5 - METALS
51200.D1 51200.E1 51200.I1	STEEL BEARING PLATE
54000.A2 54000.C1	STEEL STUD(S) 6", 20 GA. @ 16" O.C., U.N.O. STEEL STUD TRACK, SAME WIDTH AND GAUGE AS STUDS U.N.O.
DIVISION 6	6 - WOOD, PLASTICS, & COMPOSITES
66400.A1	FIBERGLASS REINFORCED PLASTIC PANELS
DIVISION 8	3 - OPENINGS
83323.A1	OVERHEAD COILING COUNTER DOOR
DIVISION 9	9 - FINISHES
92900.A1	SINGLE LAYER GYPSUM BOARD, 5/8" TYPE "X" U.N.O.
95113.A5	SUSPENDED ACOUSTICAL PANEL CEILING, METAL PAN PANELS W/ CLIPS
DIVISION 2	11 - EQUIPMENT
114000.A3 114000.A6 114000.A8	14 GA. STAINLESS STEEL COUNTERTOP W/ SPLASH STAINLESS STEEL SNEEZE GUARD 16 GA. STAINLESS STEEL CLADDING

ARCHITECTS 2400 E RIVERWALK DRIVE BOISE, IDAHO 83706 WWW.LKVARCHITECTS.COM 208.336.3443 PRELIMINARY NOT FOR CONSTRUCTION School 0 n Elementary S and Remodel Idahe me, Str Jefferson Addition a Ð 600 N. DATE: February 10, 2023 LKV PROJECT #: -REVISIONS: DRAWN BY: MS CHECKED BY: WT Conceptual Design

DRAWING NO.

A-3.11





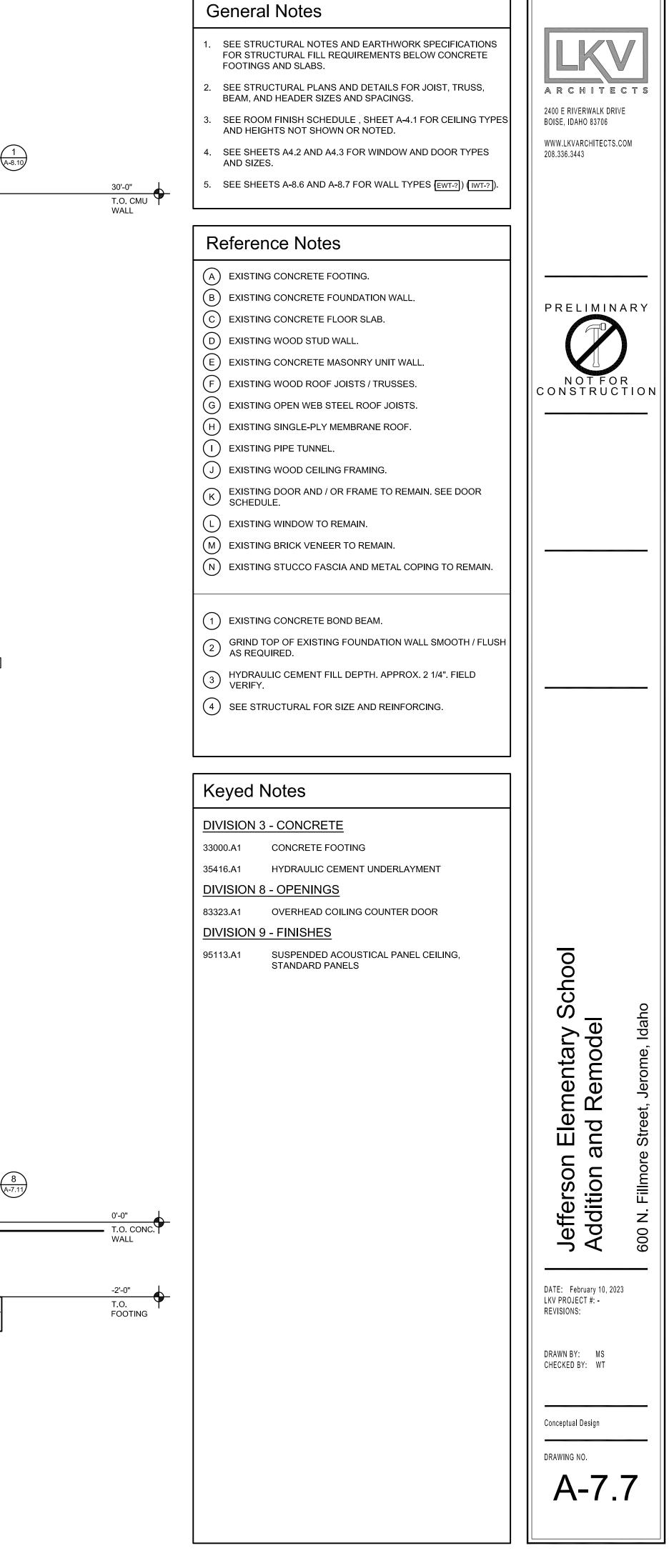
Wall Section

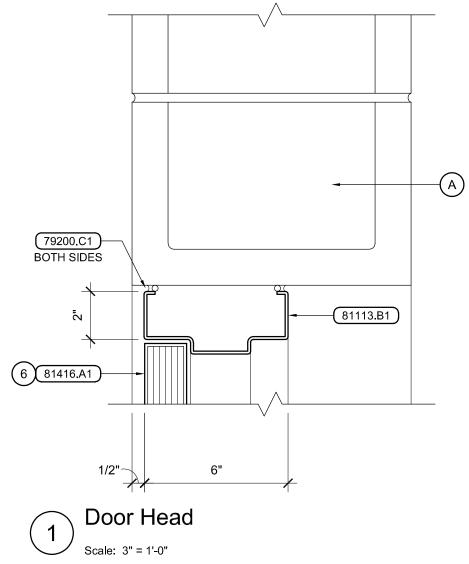


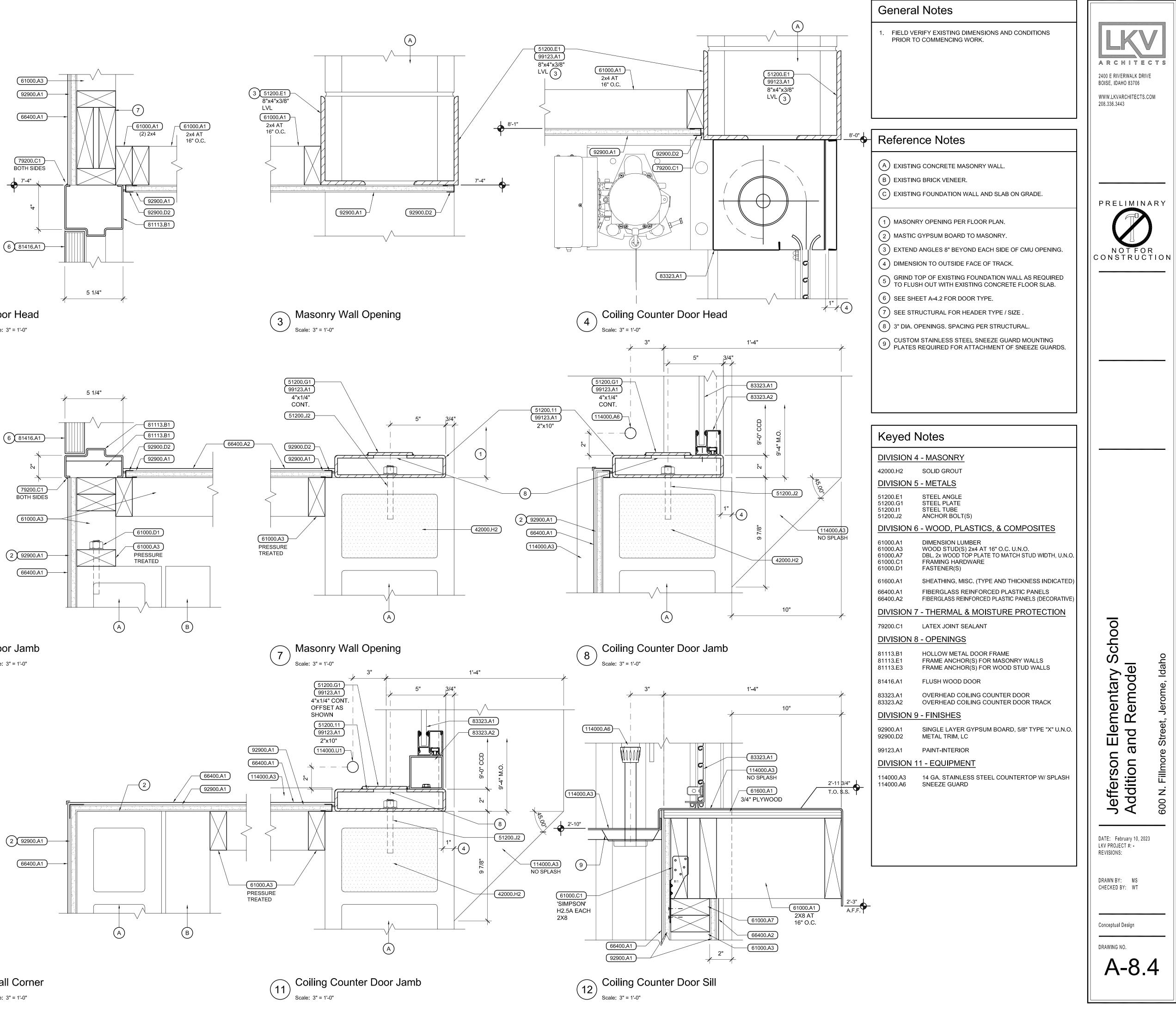


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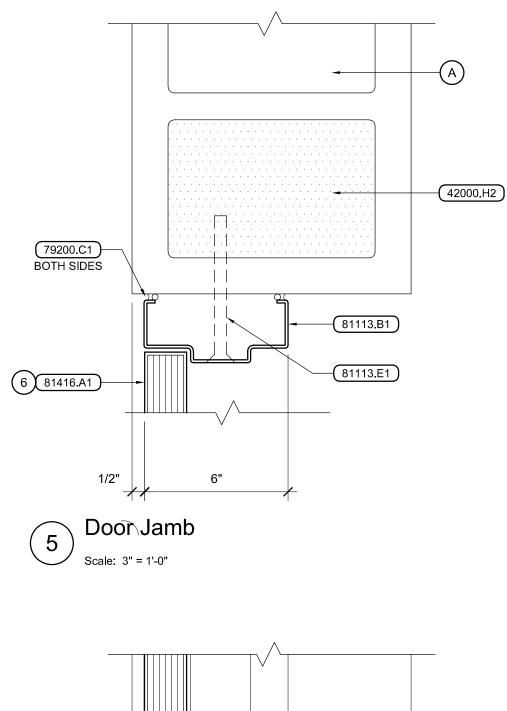




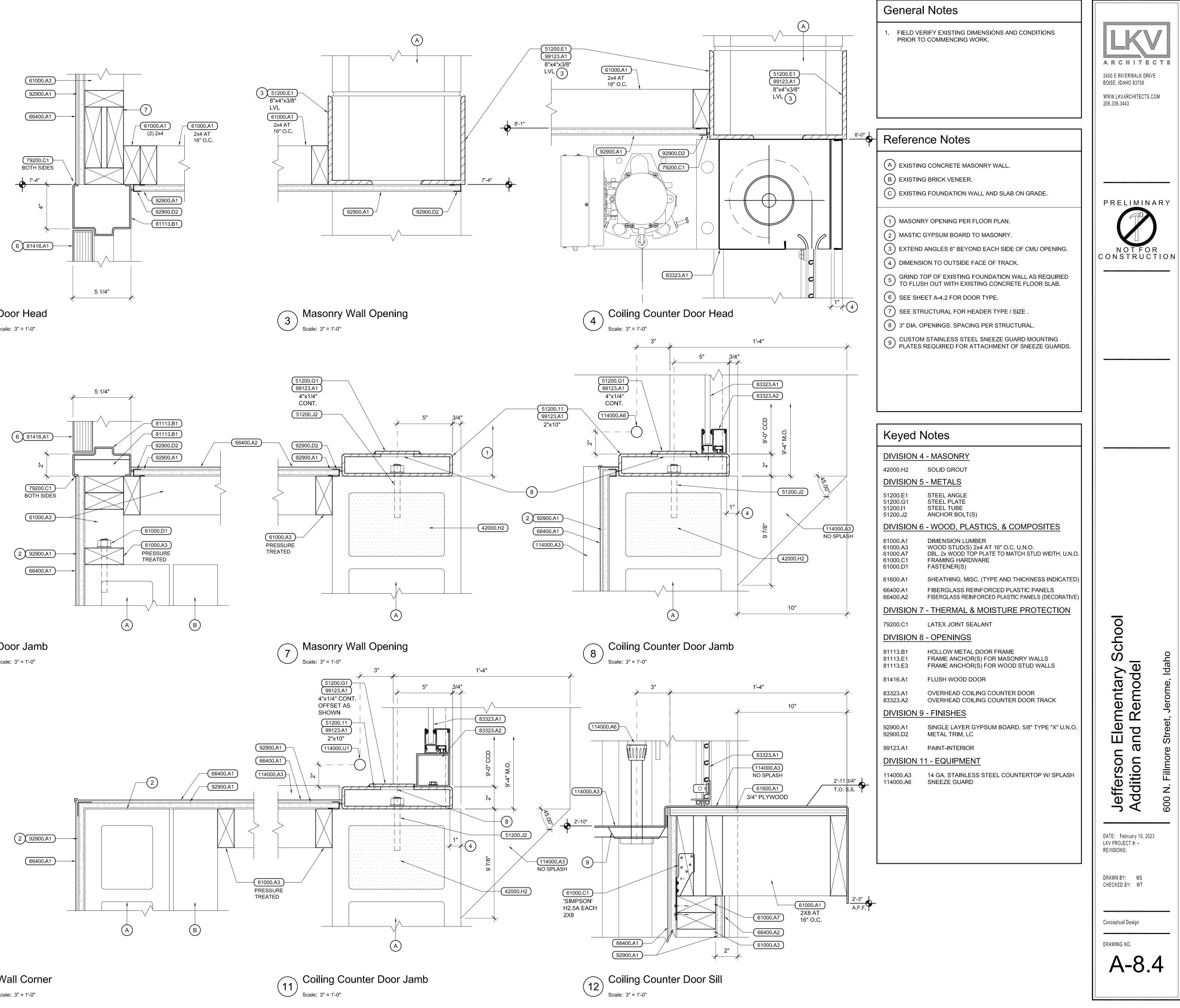




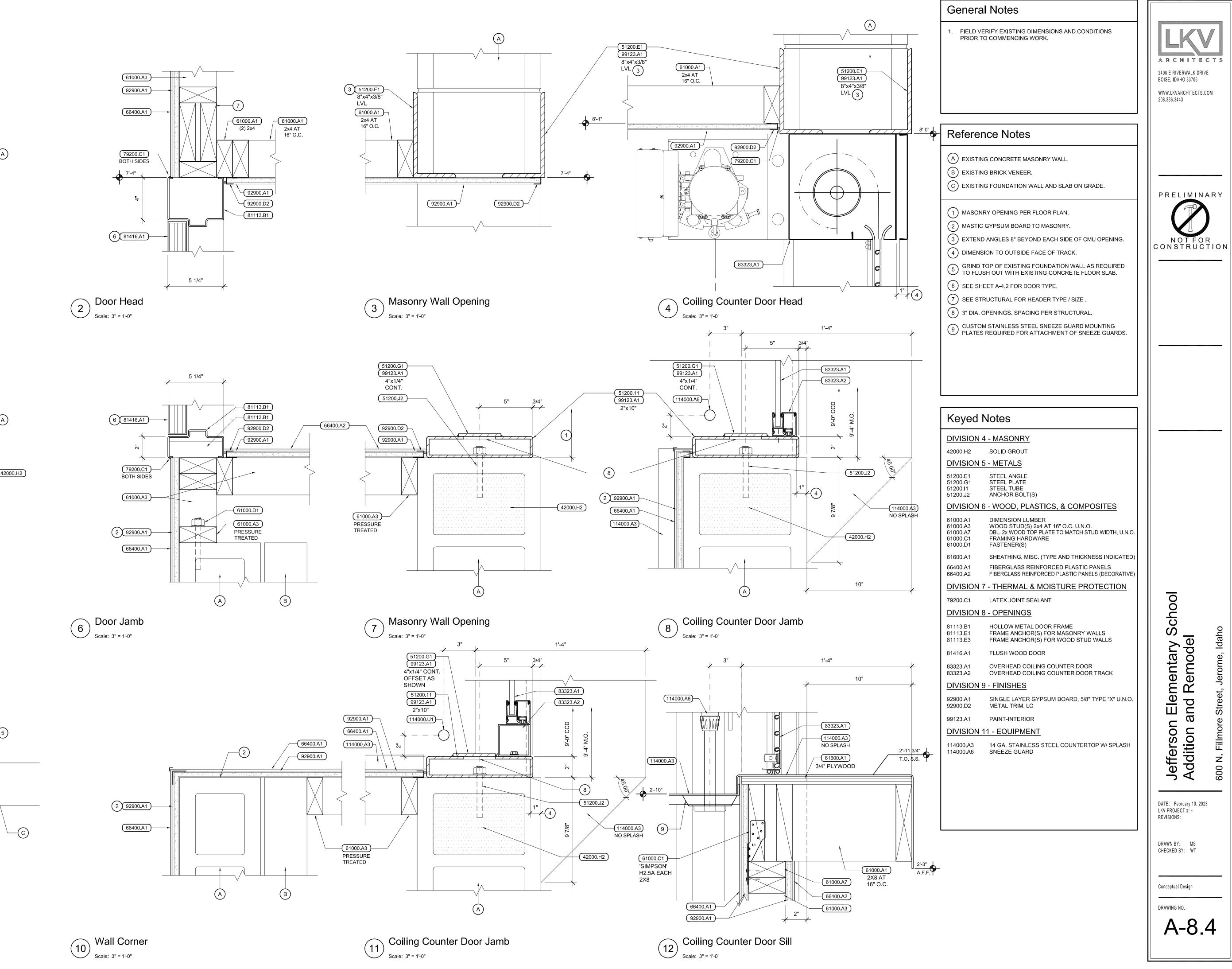




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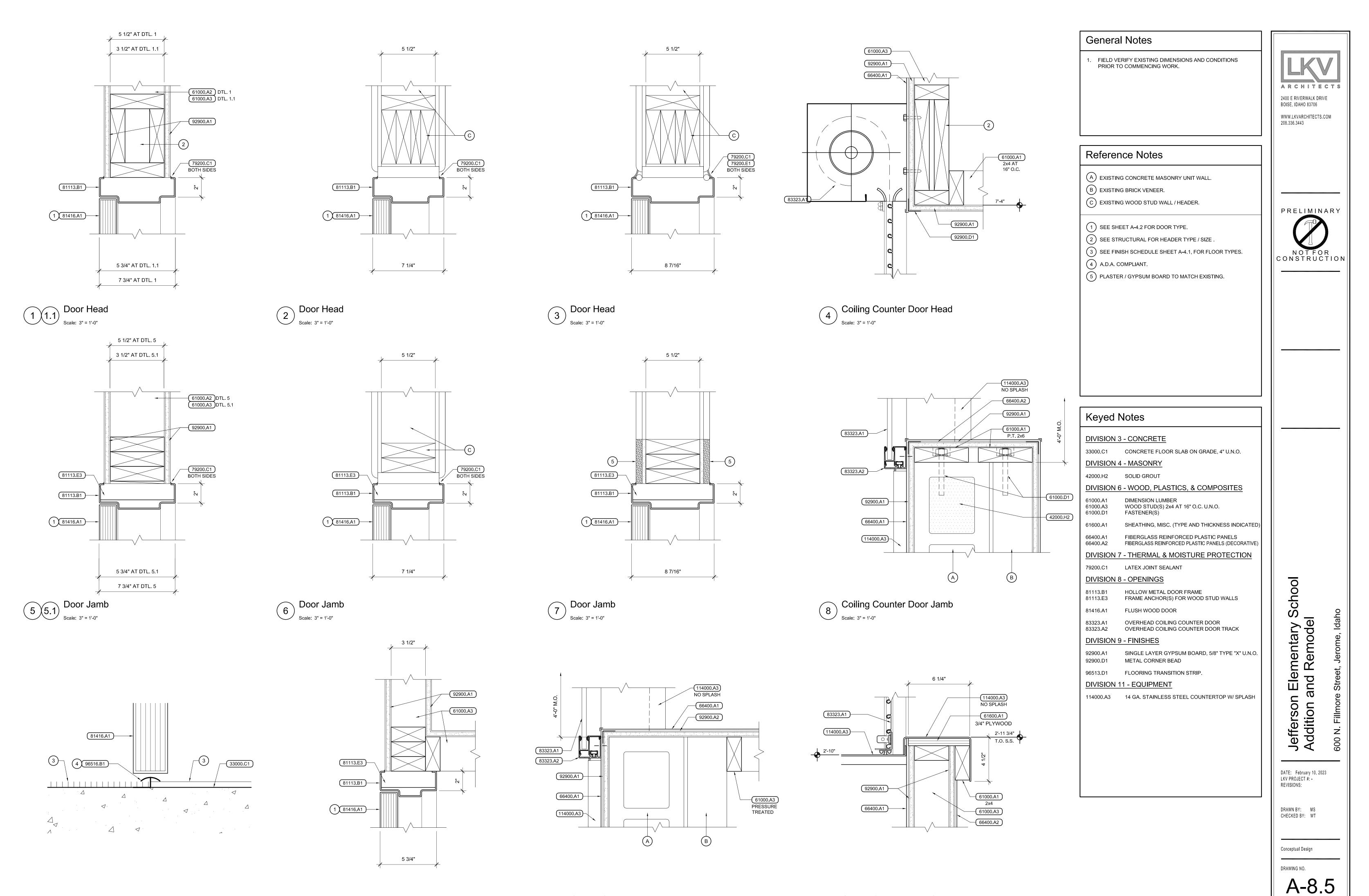




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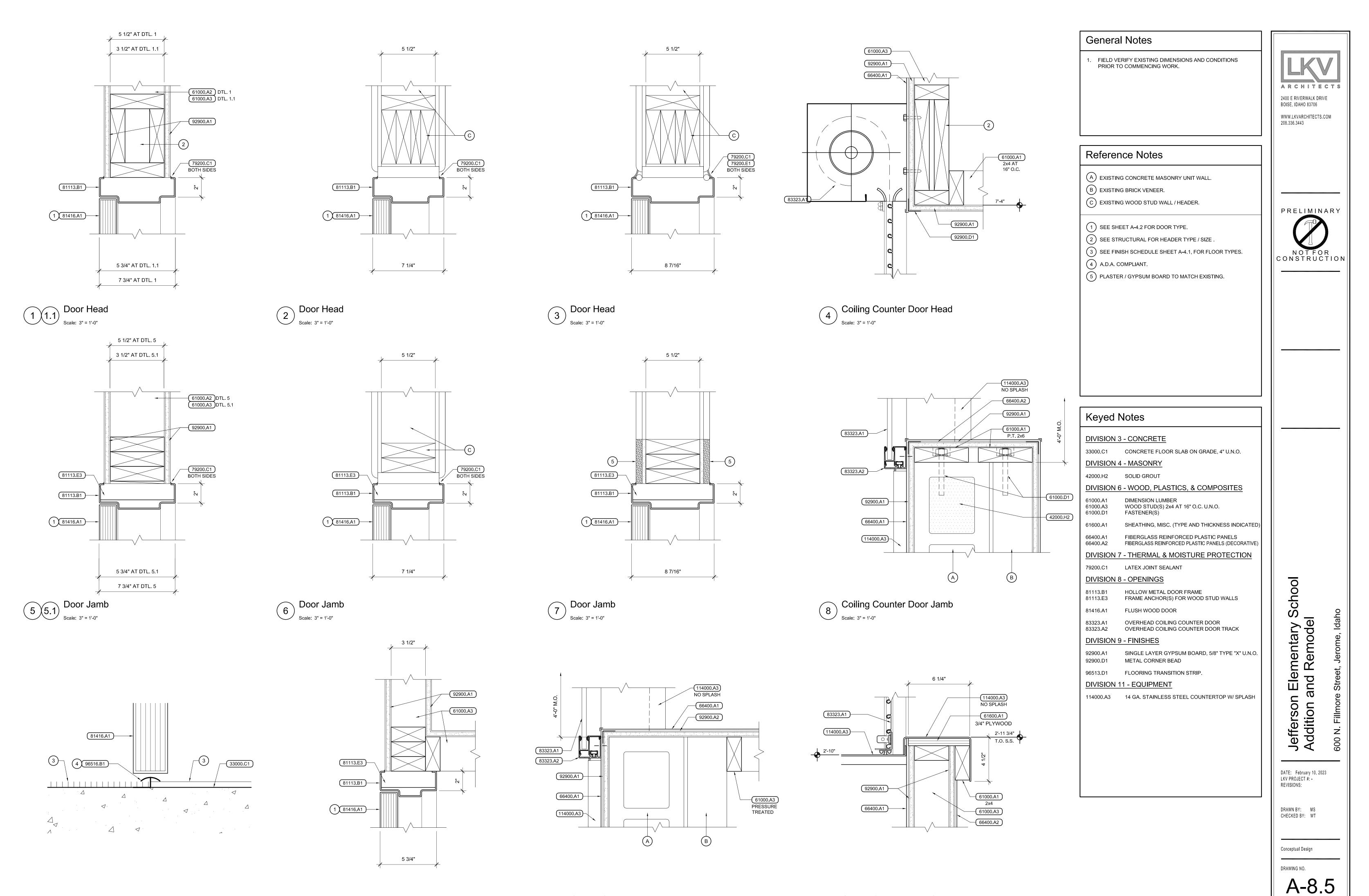






 $_{\rm V}$ Coiling Counter Door Jamb (11)Scale: 3" = 1'-0"

(12) Coiling Counter Door Sill Scale: 3" = 1'-0"



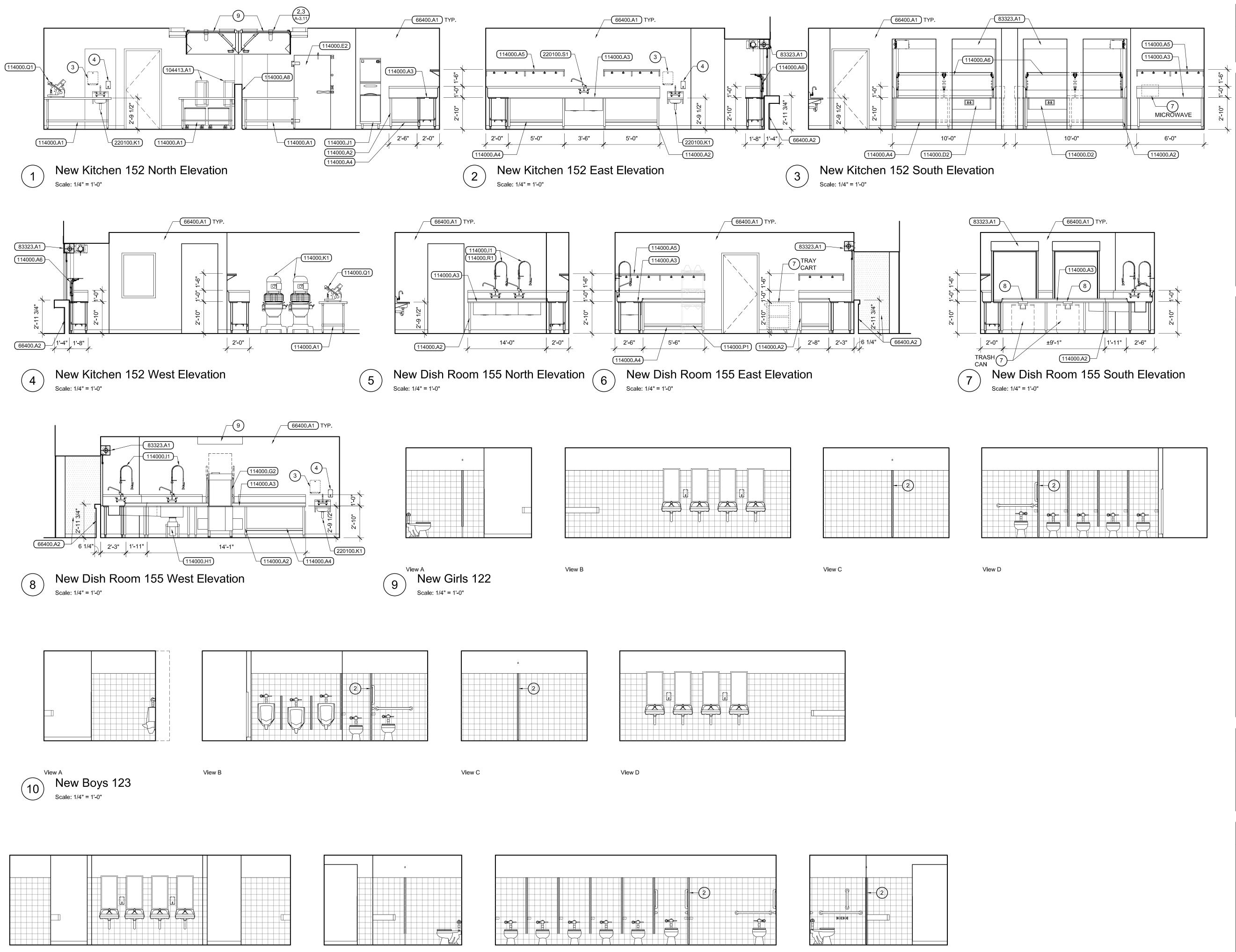






 $_{\rm V}$ Coiling Counter Door Jamb (11)Scale: 3" = 1'-0"

(12) Coiling Counter Door Sill Scale: 3" = 1'-0"





View B

2	
- 2	

General Notes

SEE ROOM FINISH SCHEDULE, SHEET A-4.1, FOR FINISHES NOT SHOWN OR NOTED.

Reference Notes

- (1) VERIFY MOUNTING HEIGHTS WITH ARCHITECT/OWNER. (2) PRIVACY PARTITION AND DOOR.
- PAPER TOWEL DISPENSER FURNISHED BY OWNER. INSTALLED BY CONTRACTOR. 3
- 4 SOAP DISPENSER FURNISHED BY OWNER. INSTALLED BY CONTRACTOR.
- 5 TOILET PAPER DISPENSER FURNISHED BY OWNER. INSTALLED BY CONTRACTOR.
- 6 DIMENSION TO BOTTOM OF REFLECTIVE GLASS.
- OWNER FURNISHED AND INSTALLED FURNITURE / EQUIPMENT. N.I.C.
- 8 10" DIA. WASTE HOLE IN COUNTER WITH 1" STAINLESS STEEL COLLAR.
- 9 HOOD. SEE MECHANICAL.

Keyed Notes

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DIVISION 6	- WOOD, PLASTICS, & COMPOSITES
66400.A1 66400.A2	FIBERGLASS REINFORCED PLASTIC PANELS FIBERGLASS REINFORCED PLASTIC PANELS (DECORATIVE)
DIVISION 8	- OPENINGS
83323.A1	OVERHEAD COILING COUNTER DOOR
DIVISION 1	0 - SPECIALTIES
104413.A1	FIRE EXTINGUISHER CABINET, SEMI-RECESSED
DIVISION 1	1 - EQUIPMENT
114000.A1 114000.A2 114000.A3 114000.A4 114000.A5 114000.A6 114000.A8 114000.A9 114000.B2 114000.B2 114000.B2 114000.H1 114000.J1 114000.K1 114000.P1 114000.R1 114000.S1 DIV//SION 22	
DIVISION 2	2 - PLUMBING

220100.K1 LAVATORY

Paint Colors

P-1 - PAINT COLOR 1 P-2 - PAINT COLOR 2 P-3 - PAINT COLOR 3 PAINT COLORS P-1, P-2, AND P-3 MAYBE DIFFERENT IN GYM AND CAFETERIA.

+ 34 1/2" A.F.F. TO CENTER

+ 30" A.F.F. TO TOP OF DISPENSER

+ 48" A.F.F. MAX TO

DISPENSER OPENING

+ 45" A.F.F. TO TOP OF DISPENSER

+ 6'-8" A.F.F. TO TOP

+ 6'-8" A.F.F. TO TOP

SIDE OF DOOR.

+ 5'-0" A.F.F. TO TOP, 3" FROM DOOR FRAME, LATCH

(1)

(1)

Mounting Heights

+ 40" MAX. A.F.F. TO BOTTOM OF REFLECTIVE SURFACE MIRRORS

GRAB BARS TOILET PAPER DISPENSER PAPER TOWEL DISPENSER

SOAP DISPENSER

MARKER BOARDS TACK BOARDS

INTERIOR SIGNS

FIRE EXTINGUISHER CABINETS : 4'-4" A.F.F. TO TOP. VERIFY WITH A.H.J.

ARCHITEC 2400 E RIVERWALK DRIVE BOISE, IDAHO 83706 WWW.LKVARCHITECTS.COM 208.336.3443	
P R E L I M I N A	R Y I O N
Jefferson Elementary School Addition and Remodel	600 N. Fillmore Street, Jerome, Idaho
DATE: February 10, 2023 LKV PROJECT #: - REVISIONS: DRAWN BY: MS CHECKED BY: WT	
Conceptual Design	

A-9.2

DRAWING NO.

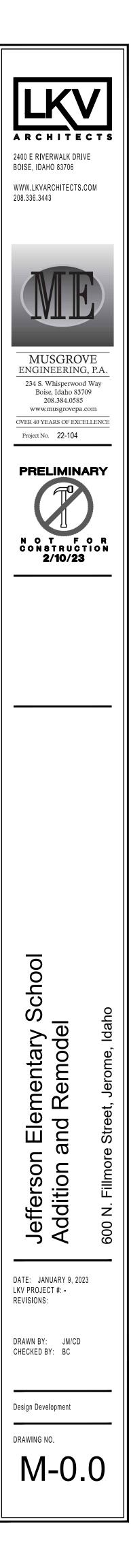
MECHANICAL ABBREVIATIONS									
A/C or AC	AIR CONDITIONING	KW	KILOWATT						
AFF	ABOVE FINISHED FLOOR	KWH	KILOWATT HOUR						
AHU	AIR HANDLING UNIT								
	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR								
ASHRAE	CONDITIONING ENGINEERS	LAT	LEAVING AIR TEMPERATURE						
		LAV	LAVATORY						
BTU	BRITISH THERMAL UNITS	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN						
	BTUS PER HOUR	LWT	LEAVING WATER TEMPERATURE						
DIGH	BIGGTERTIGGR								
CA	COMBUSTION AIR	MAX	MAXIMUM						
	COOLING COIL	MCA	MINIMUM CIRCUIT AMPS						
CFM	AIR FLOW RATE (CUBIC FEET PER MINUTE)	MOCP	MAXIMUM OVERCURRENT PROTECTION						
CHWR	CHILLED WATER RETURN	MIN	MINIMUM						
CHWS	CHILLED WATER RETORN	IVIIIN							
CLG	CEILING	NC	NOISE CRITERIA						
CW	COLD WATER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION						
011	COLD WATER	NTS	NOT TO SCALE						
DEG or °	DEGREE	1113	NUT TO SCALE						
	DIAMETER	OSA	OUTSIDE AIR						
DIA OLO	DRY BULB	034							
DD		PD	PRESSURE DROP						
EA	EXHAUST AIR	PH or Ø	PHASE						
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE						
EER	ENERGY EFFICIENCY RATIO	PRV							
ESP	EXTERNAL STATIC PRESSURE	DA	RETURN AIR						
ESP		RA	REVOLUTIONS PER MINUTE						
EVVI		RPM							
FCO	FLOOR CLEANOUT	RTU	ROOFTOP UNIT						
FD	FIRE DAMPER	SA	SUPPLY AIR						
FLA		SEER	SEASONAL ENERGY EFFICIENCY RATIO						
FLA FLR	FULL LOAD AMPS FLOOR		COMBINATION SMOKE/FIRE DAMPER						
		SFD SP							
FPM	FEET PER MINUTE		STATIC PRESSURE						
FT	FEET	SYM	SYMBOL						
~	CALLOE								
GA	GAUGE	T & P	TEMPERATURE AND PRESSURE						
GCO		TEMP	TEMPERATURE						
GPM	WATER FLOW RATE (GALLONS PER MINUTE)	TYP	TYPICAL						
HC	HEATING COIL								
HP	HORSE POWER	UPC							
HVAC	HEATING, VENTILATING, AIR CONDITIONING	URL	URINAL						
HW	HOT WATER								
HWR	HOT WATER RETURN	VTR	VENT THROUGH ROOF						
HWS	HOT WATER SUPPLY	V	VOLTS						
IBC	INTERNATIONAL BUILDING CODE	W/	WITH						
IEEC	INTERNATIONAL BUILDING CODE	WB	WET-BULB						
IFC IFGC	INTERNATIONAL FIRE CODE	WCO	WATER CLOSET						
	INTERNATIONAL FUEL GAS CODE	WCO							
IMC		WH	WATER HEATER						
IPC	INTERNATIONAL PLUMBING CODE								
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED MECHANICAL	ABBREVIAT	I IONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY N						

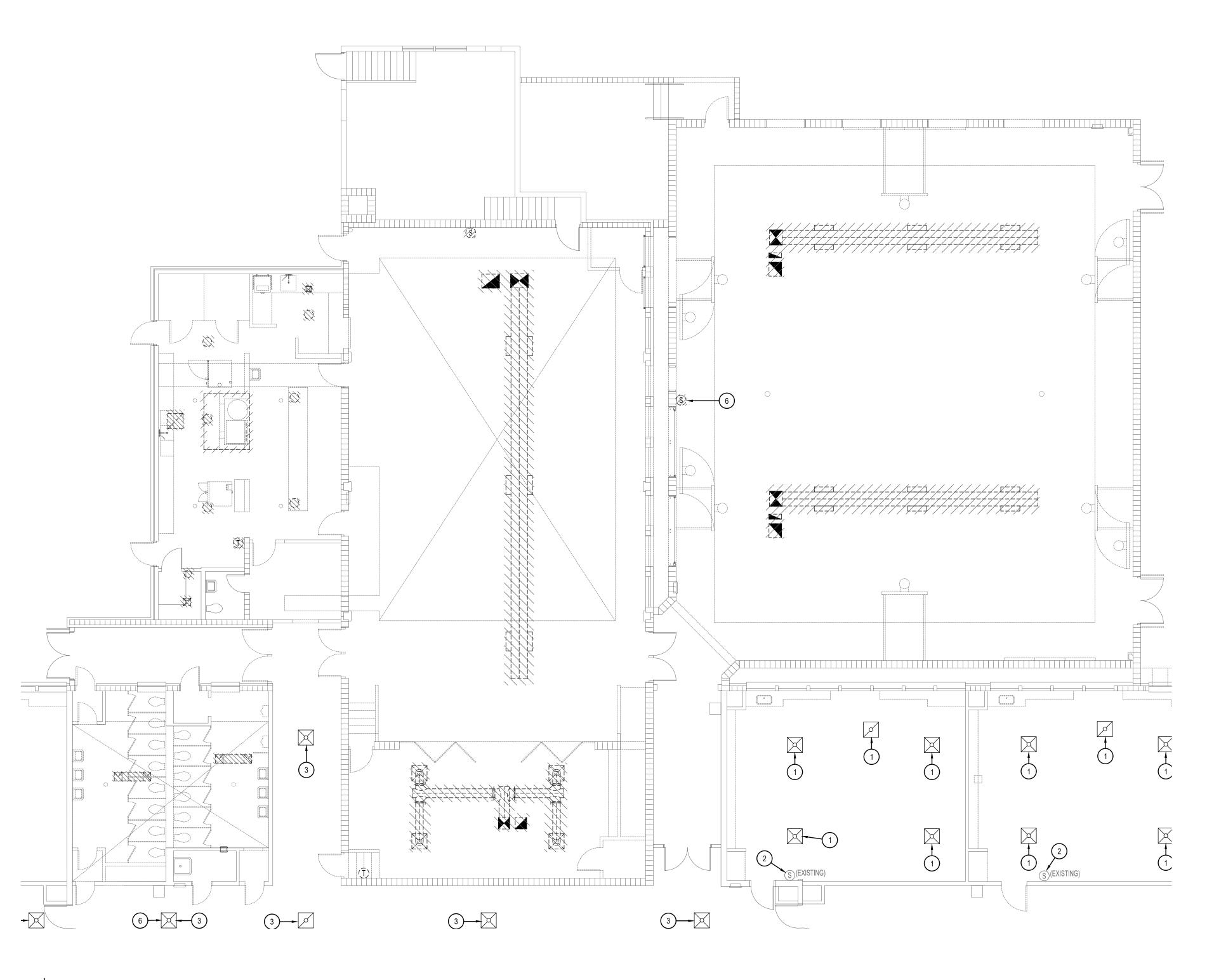
MECHANICAL GENERAL NOTES

- ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE 1. (IMC) LATEST EDITION, AND ALL LOCAL & STATE CODES.
- ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED PLUMBING CODE, AND ALL LOCAL & STATE CODES.
- ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- MECHANICAL CONTRACTORS SHALL RECEIVE PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING CUTS 4. THROUGH ANY STRUCTURAL MEMBER.
- 5. MECHANICAL CONTRACTORS SHALL COORDINATE INSTALLATION WITH CONSTRUCTION SUPERVISOR AND WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- 6. THE MECHANICAL CONTRACTORS SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
- 7. SEE MECHANICAL SCHEDULE SHEET FOR SCHEDULED CAPACITIES OF ALL MECHANICAL EQUIPMENT AND MATERIALS SPECIFIED.
- 8. DOMESTIC WATER SERVICE IS PROVIDED WITH A DOUBLE CHECK BACKFLOW PREVENTER.
- 9. ALL MECHANICAL EQUIPMENT TO BE PROPOSED MUST BE ON THE APPROVED LIST PRIOR TO SUBMITTALS. ALL APPROVED MANUFACTURERS MUST BE CAPABLE OF MEETING THE REQUIREMENTS OF THE SPECIFIED EQUIPMENT.
- 10. RUNOUT AND HOOKUP SIZES TO INDIVIDUAL PLUMBING FIXTURE CAN BE FOUND ON THE PLUMBING FIXTURE SCHEDULE.
- 11. PROVIDE REMOTE CEILING ACCESS BALANCE DAMPERS WITH CONCEALED CHROME PLATE COVERS FOR BALANCE DAMPERS LOCATED ABOVE HARD CEILINGS.
- 12. PAINT ALL VTR'S, FLUES, EXHAUST CAPS, AND OTHER MECHANICAL ITEMS ON THE ROOF TO MATCH THE ROOF COLOR.
- 13. INSULATED FLEXIBLE DUCTWORK MAY BE USED FOR RUNOUTS TO GRILLES AND DIFFUSERS, IN LENGTHS OF 6'-0" OR LESS.
- 14. MAINTAIN MINIMUM OF 10'-0" DISTANCE BETWEEN ALL FRESH AIR INTAKES AND EXHAUST OR GAS FLUE DISCHARGES.
- 15. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO BE INSPECTED BY A CERTIFIED BACKFLOW TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.
- 16. LOCATE ACCESS HATCHES SO AS TO PROVIDE OPTIMUM SERVICEABILITY TO EQUIPMENT AND/OR VALVING. SEE ARCHITECTURAL SPECIFICATION FOR TYPE AND COLOR. COORDINATE LOCATION WITH STRUCTURAL & LIGHTING.
- 17. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
- 18. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR VERIFICATION OF EXISTING JOB CONDITIONS PRIOR TO BID. NO ADDITIONAL COST SHALL BE AWARDED TO THE SUCCESSFUL CONTRACTOR (OR THEIR SUBCONTRACTORS) AFTER BIDS HAVE BEEN SUBMITTED AND CONTRACTS AWARDED FOR FAILURE TO VERIFY EXISTING FIELD CONDITIONS. DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION FOR ALTERNATIVE METHODS OF INSTALLATION PRIOR TO THE BIDDING OF THIS PROJECT.
- 19. UNLESS OTHERWISE NOTED ALL EXISTING MECHANICAL EQUIPMENT, PIPING, ETC, TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR UNDER THIS CONTRACT. THE OWNER SHALL RETAIN THE RIGHT TO KEEP ANY REMOVED ITEMS.
- 20. ALL DOMESTIC COLD AND HOT WATER LINES IN THE AREA OF WORK WHICH ARE NO LONGER IN USE DUE TO THIS PROJECT SHALL BE REMOVED BACK TO THE MAINS AND CAPPED.
- 21. HOLES IN EXISTING WALL OR FLOORS SHALL BE PATCHED TO MATCH EXISTING WHERE PIPING, DUCTWORK, ETC. WERE REMOVED OR ADDED DURING THIS PROJECT.
- 22. DAMAGE TO THE EXISTING FACILITY DURING THE CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

MECHA		BING DRAWINGS LEGEND	ENERGY CODE COMPLIANCE
	FLEXIBLE DUCTWORK	THREE WAY CONTROL VALVE	A. COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE IS REQUIRED FOR THIS
			PROJECT. THESE NOTES COVER MANDATORY REQUIREMENTS OF THE CODE. ADDITIONAL REQUIREMENTS ARE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
	DUCTWORK	TWO WAY CONTROL VALVE	B. MINIMUM REQUIREMENTS FOR SUPPLY AND RETURN DUCTWORK INSULATION:
	DUCTWORK BREAK	GATE VALVE	1. R-6: DUCTS LOCATED IN UNCONDITIONED SPACES (SPACE NEITHER HEATED NOR COOLED SUCH AS ABOVE CEILING SPACES, WALL SPACES, DUCT CHASES, SOFFITS, ATTICS, CRAWL SPACES, UNHEATED BASEMENTS, AND UNHEATED GARAGES).
	CONCENTRIC SQUARE TO ROUND		2. R-12: DUCTS LOCATED OUTSIDE OF THE BUILDING'S INSULATION ENVELOPE (SUCH AS ABOVE THE ATTIC INSULATION).
	TRANSITION		TYPICAL INSULATION THICKNESS REQUIRED TO MEET THESE REQUIREMENTS:
<u> </u>	MOTORIZED DAMPER	GLOBE VALVE	1. DUCT WRAP: R-6 = 1-1/2"
	SPIN-IN FITTING W/ AIR EXTRACTOR AND		R-12 = 4" 2. DUCT LINER:
	HIGH EFFICIENCY FITTING W/ HAND DAMPER		R-6 = 1-1/2" R-12 = 3"
\$	SWITCH		C. CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER, THE R-VALUES OF THE ACTUAL INSULATION USED. R-VALUES SHALL BE INSTALLED VALUES.
Ū	THERMOSTAT	$\int \frac{FCO}{FCO} FLOOR CLEANOUT$	D. WHERE DUCTS USED FOR COOLING ARE EXTERNALLY INSULATED, THE INSULATION SHALL BE COVERED WITH A VAPOR RETARDER HAVING A MAXIMUM PERMEANCE OF 0.05 PERM OR ALUMINUM FOIL HAVING A MINIMUM THICKNESS OF 2 MILS. INSULATION HAVING A
Ð	HUMIDISTAT	S	PERMEANCE OF 0.05 PERMS OR LESS SHALL NOT BE REQUIRED TO BE COVERED. ALL JOINTS AND SEAMS SHALL BE SEALED TO MAINTAIN THE CONTINUITY OF THE VAPOR RETARDER.
S	TEMPERATURE SENSOR	S GCO GRADE CLEANOUT	E. ALL DUCT JOINTS, SEAMS, AND CONNECTIONS SHALL BE FASTENED AND SEALED WITH WELDS, GASKETS, ADHESIVES,
	CARBON DIOXIDE SENSOR	WATER HAMMER ARRESTOR	MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED PER UL181A OR UL181B. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. DUCT CONNECTIONS TO FLANGES OR EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED.
©	CARBON MONOXIDE SENSOR	FLOOR DRAIN	F. MINIMUM REQUIREMENTS (THICKNESS) FOR PIPING INSULATION SHALL BE AS FOLLOWS:
	NITROGEN DIOXIDE SENSOR	ج ہو جات FLOOR SINK	FLUID NOMINAL PIPE DIAMETER 1/2" TO < 1 1/2" TO < 4" 4" AND ABOVE
	DUCT SMOKE DETECTOR	GAS PRESSURE REGULATOR W/ GAS COCK	1. HEATING WATER 1 1/2" 2" 2" 1. CHILLED WATER 1/2" 1" 1"
SFD	COMBINATION SMOKE/FIRE DAMPER	PRESSURE RELIEF VALVE	2. STEAM 2 1/2" 2 1/2" 3" 3. CONDENSATE RETURN 2 1/2" 2 1/2" 3" 4. REFRIGERANT SEE SPECIFICATIONS 3"
	FIRE DAMPER	• VENT-THROUGH-ROOF	THE ABOVE INSULATION IS BASED ON HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH/HOUR-FT2-°F.
<u>SD</u>	SMOKE DAMPER	∫∫ VENT	G. DOMESTIC HOT WATER PIPING SYSTEMS SHALL BE INSULATED WITH 1" INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH/HOUR-FT2-°F.
 #	EQUIPMENT CALLOUT	SOIL, WASTE, OR SANITARY SEWER	H. DOMESTIC WATER HEATERS WHICH ARE NOT PROVIDED WITH INTEGRAL HEAT TRAPS AND SERVE NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AT THE WATER HEATER.
	TURNING VANES	ACID WASTE LINE	I. DOMESTIC HOT WATER SYSTEMS WITH RECIRCULATION PUMPS OR ELECTRIC HEAT TRACE SHALL BE CONTROLLED WITH 7-DAY TIME CLOCKS.
-4	INTAKE OR EXHAUST	∫	J. AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THE O&M MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION AS A MINIMUM:
	DIRECTION OF AIRFLOW	STORM DRAIN	1. EQUIPMENT CAPACITY (INPUT & OUTPUT).
D-X CFM X"Ø	SUPPLY DIFFUSER	ROOF DRAIN LINE	2. EQUIPMENT OPERATING AND MAINTENANCE INSTRUCTIONS.
R-X X"Ø	RETURN GRILLE	OVERFLOW DRAIN LINE	3. CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES.
C R-X CFM X"Ø	EXHAUST GRILLE	CONDENSATE DRAIN LINE	4. CONTROL SYSTEM SETPOINTS SHALL BE SHOWN ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR IN PROGRAMMING
G-X CFM X"Ø	FLOOR GRILLE	JOMESTIC COLD WATER (CW)	COMMENT ON DDC SYSTEMS. 5. A COMPLETE WRITTEN NARRATIVE ON HOW EACH MECHANICAL SYSTEM IS INTENDED TO OPERATE.
	CEILING EXHAUST FAN	DOMESTIC HOT WATER (HW)	
Π	TEMPERATURE GAUGE	JOMESTIC HOT WATER RETURN (HWR)	
Ϋ́	PRESSURE GAUGE (LIQUID FILLED W/ ISOLATION VALVE)	TEMPERED WATER (TW)	
	TEMPERATURE SENSOR (DUCT OR PIPING)	← MPG ← F MEDIUM PRESSURE NATURAL GAS	
 FS	FLOW SWITCH	G	
	STAINLESS STEEL BRAIDED FLEX	FIRE SPRINKLER LINE	
	CONNECTION ELASTOMETRIC FLEX CONNECTOR	GROTHERWAL WATER SUPPLY	
	SUCTION DIFFUSER	GEOTHERMAL WATER RETURN	
	Y TYPE STRAINER (1 1/2" OR LARGER	CWS CHILLED WATER SUPPLY	
	PROVIDED W/ BLOW DOWN VALVE) FLOW DIRECTION	CWR CHILLED WATER RETURN	
	DEMOLITION / EQUIPMENT TO BE REMOVED	CONDENSER WATER SUPPLY	
→	NEW TO EXISTING CONNECTION POINT	CONDENSER WATER RETURN	
(E)	EXISTING	HWS HEATING WATER SUPPLY	
(F)	FUTURE	HEATING WATER RETURN	
(N)	NEW	LIQUID REFRIGERANT LINE	
	REDUCED PRESSURE BACKFLOW PREVENTER	SUCTION REFRIGERANT LINE	
	DOUBLE CHECK BACKFLOW PREVENTER		
	UNION	S PIPE ANCHOR	
↑ ⑦	AIR VENT	S PIPE GUIDE	
Ň 🖍	TRIPLE DUTY VALVE	CAP	
NOTE:	THIS IS A LIST OF COMMONLY USED MECHAN MAY NOT BE USED IN THIS DRAWING PACKAG	I ICAL AND PLUMBING SYMBOLS. SOME OF THE SYMBOLS SHOWN ABOVE GE.	1
L			J

MPLIANCE



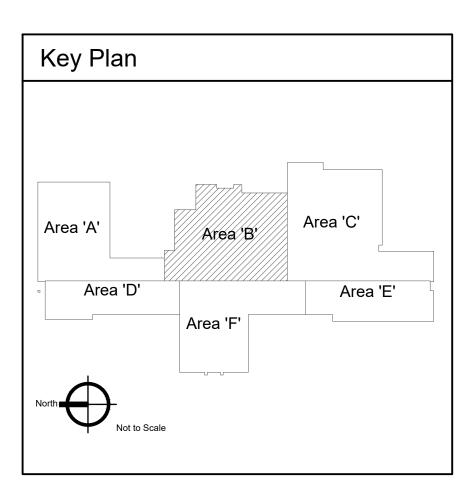


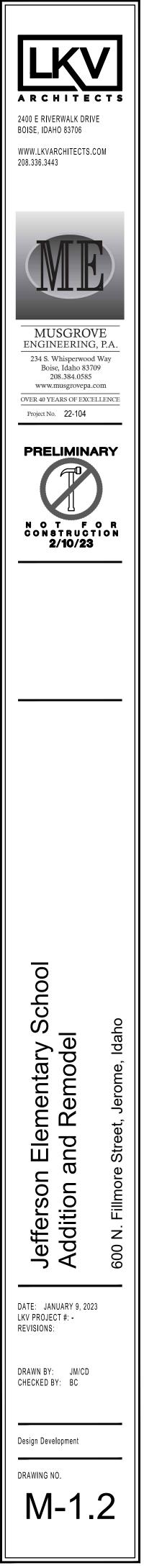
Mechanical Demolition Plan - Area 'B'

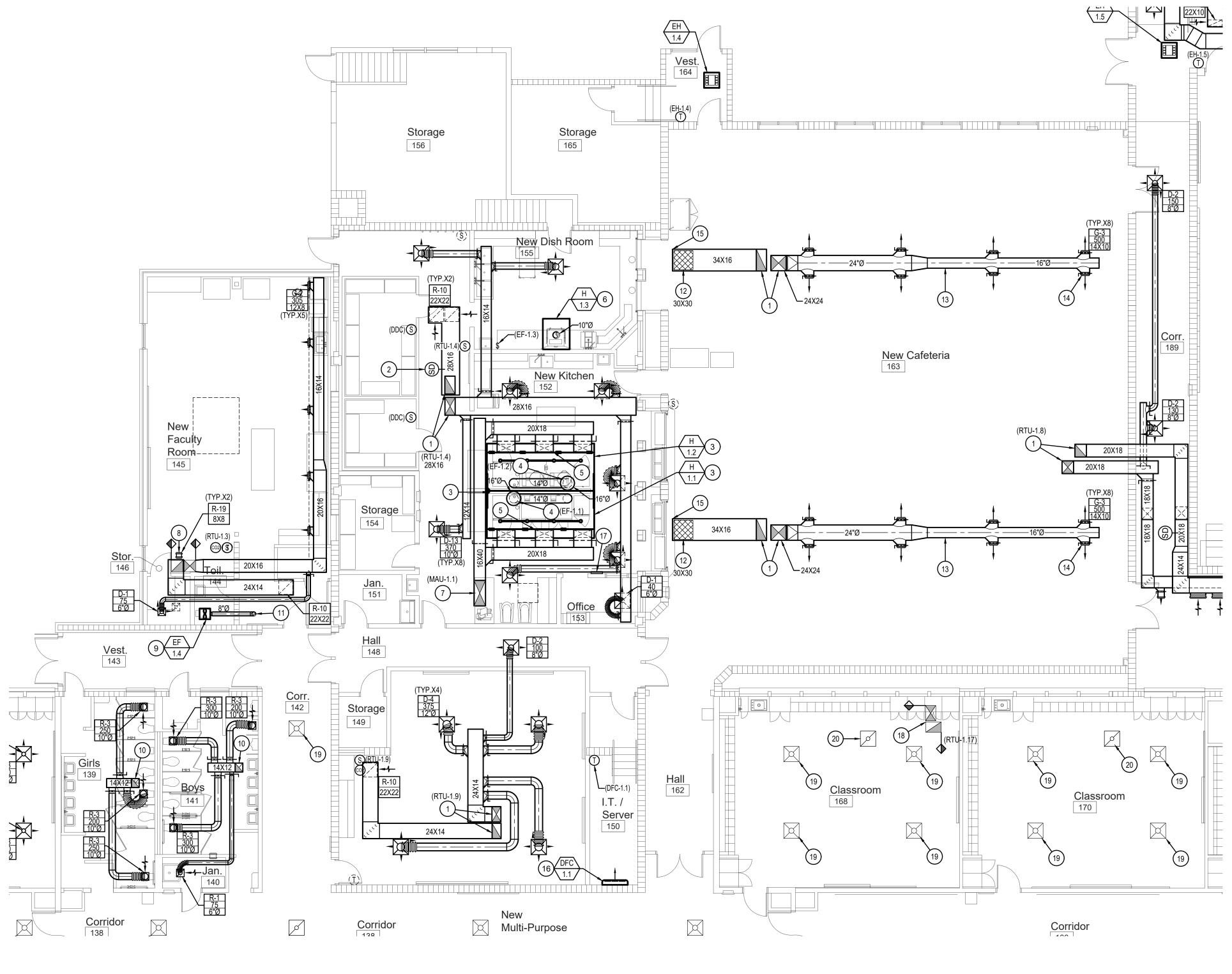
KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

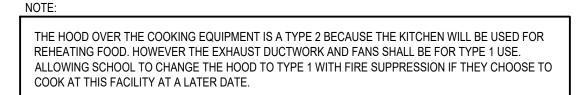
- 1. REMOVE, RETAIN AND PROTECT EXISTING GRILLE / DIFFUSER FOR NEW WORK. ASSOCIATED DUCTWORK SHALL REMAIN.
- BID ALT#2: REMOVE EXISTING WALL SENSOR AND ASSOCIATED WIRE.
 BID ALT#1: REMOVE, RETAIN AND PROTECT EXISTING GRILLE / DIFFUSER FOR NEW WORK. ASSOCIATED DUCTWORK SHALL
- REMAIN.4. REMOVE EXISTING HVAC EQUIPMENT.
- 5. REMOVE EXISTING GRILLE / DIFFUSER AND ALL ASSOCIATED DUCTWORK.
- 6. REMOVE EXISTING WALL SENSOR AND ASSOCIATED WIRE.





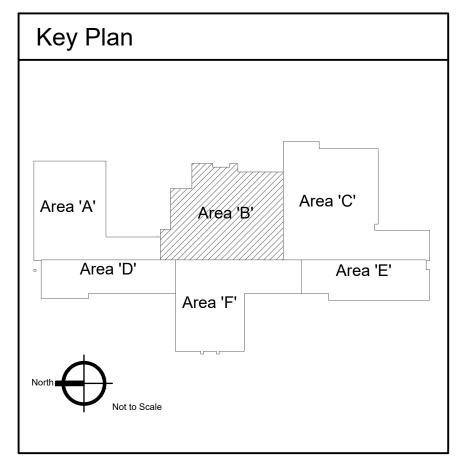


Mechanical New Work Plan - Area 'B' 1/8" = 1'-0"

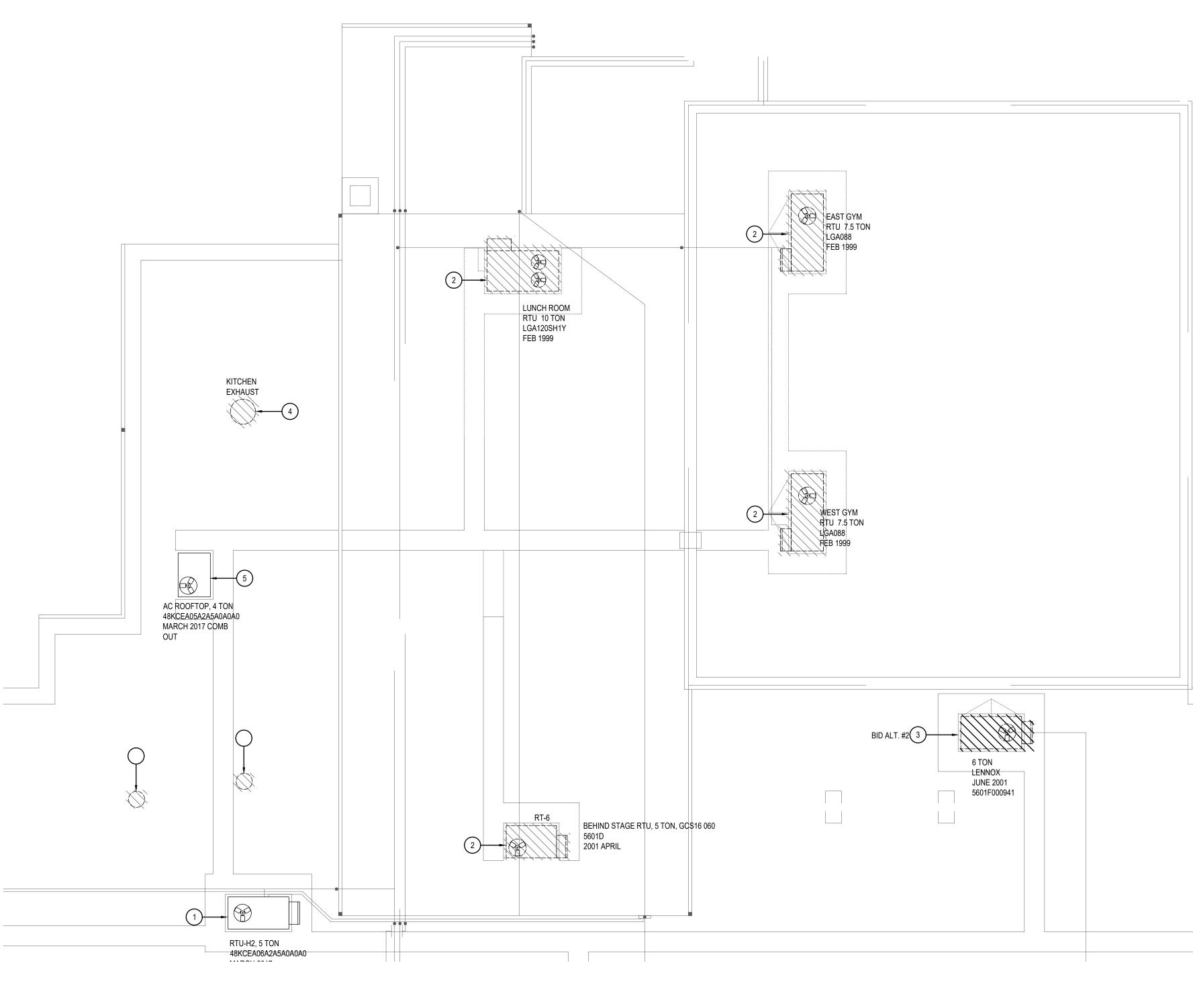


KEYED NOTES:

- (#) SYMBOL USED FOR NOTE CALLOUT.
- ROUTE RETURN AND SUPPLY DUCTS UP THROUGH ROOF AND TRANSITION TO UNIT AS REQUIRED. PROVIDE TURNING VANES IN ELBOWS AND A FLEXIBLE DUCT CONNECTION AT UNIT.
- 2. SMOKE DUCT DETECTOR IN RETURN DUCT SHALL SHUT DOWN UNIT UPON DETECTION OF SMOKE. SMOKE DETECTOR SHALL BE PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
- 3. MOUNT TYPE II HOODS BACK TO BACK , MOUNT BOTTOM OF HOOD AT 6'-4" AFF.
- 4. PROVIDE AND CONNECT TYPE I FACTORY BUILT DOUBLE WALL GREASE DUCTWORK TO TYPE II HOOD. ROUTE DOUBLE WALL GREASE DUCT TO ROOF MOUNTED EXHAUST FAN. INSTALLATION SHALL BE DONE THE SAME AS FOR A TYPE I SYSTEM.
- 5. PROVIDE AND CONNECT MAKE UP AIR DUCTWORK TO HOOD PLENUM. 28X12 BRANCH DUCTS WITH DAMPER, EVENLY DIVIDE MAKE UP AIR TO EACH BRANCH DUCT.
- 6. MOUNT DISH HOOD ABOVE DISH MACHINE. PROVIDE AND ROUTE ALUMINUM DUCT UP THROUGH ROOF AND CONNECT TO EXHAUST FAN.
- ROUTE SUPPLY DUCT UP THROUGH ROOF AND TRANSITION TO MAKE UP AIR UNIT AS REQUIRED. PROVIDE TURNING VANES IN ELBOWS AND A FLEXIBLE DUCT CONNECTION AT UNIT.
- 8. PROVIDE TRANSFER DUCT AND GRILLES, MOUNT BOTTOM OF GRILLES 6" AFF. SIZE DUCT SAME AS GRILLE.
- 9. CEILING CABINET EXHAUST FAN, PROVIDE VIBRATION ISOLATION AND FLEXIBLE DUCT CONNECTION.
- 10. ROUTE EXHAUST DUCT UP THROUGH ROOF TO ROOF MOUNTED EXHAUST FAN. TRANSITION TO UNIT AS REQUIRED, PROVIDE FLEXIBLE DUCT CONNECTION.
- 11. ROUTE EXHAUST DUCT UP THROUGH ROOF. SEE HVAC ROOF PLAN FOR CONTINUATION.
- 12. PROVIDE OPENING ON TOP SIDE OF DUCT, COVER WITH EXPANDED METAL SCREENING, MAINTAIN A MINIMUM DISTANCE OF 4" BETWEEN OPENING (TOP SIDE OF DUCT) AND STRUCTURE. SIZE OF OPENING AS INDICATED.
- 13. SUSPEND ROUND SPIRAL DUCTWORK, SEE DETAIL.
- 14. PROVIDE TAKE OFF WITH DAMPER AND GRILLE, ANGLE TAKE OFF 30 DEGREES DOWNWARD FROM HORIZONTAL, TYPICAL. SEE DETAIL.
- 15. INTERNALLY LINE RETURN DUCTWORK THE ENTIRE LENGTH FROM UNIT TO END OF DUCTWORK. NO EXTERNAL INSULATION.
- 16. MOUNT DUCTLESS SPLIT FAN COIL HIGH ON WALL. MAINTAIN MANUFACTURERS REQUIRED CLEARANCES. ROUTE REFRIGERATION LINES HIDDEN OUT OF SITE IN WALLS AND CEILINGS TO ROOF MOUNTED CORRESPONDING CONDENSING UNIT.
- 17. MOUNT HOOD CONTROL PANEL ON WALL AT THIS LOCATION.
- 18. BID ALT#2: CONNECT EXISTING DUCT DROPS TO NEW UNIT. MODIFICATION SHALL BE REQUIRED. WHERE APPLIES REUSE EXISTING SMOKE DUCT DETECTOR.
- 19. PROVIDE NEW SUPPLY DIFFUSER IN NEW CEILING. CONNECT TO EXISTING SUPPLY DUCTWORK. BALANCE AIR FLOW AS INDICATED.
- 20. PROVIDE NEW RETURN GRILLE IN NEW CEILING. CONNECT TO EXISTING RETURN DUCTWORK.



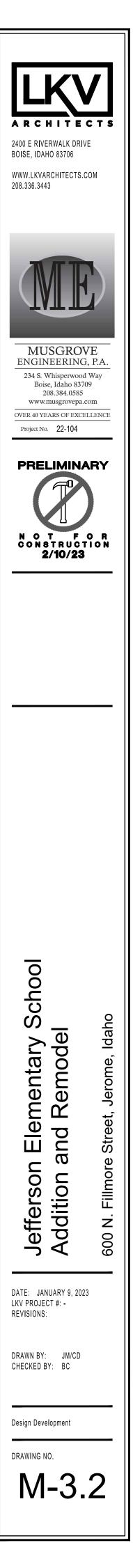
2400 E RIVERWALK DRIVE BOISE, IDAHO 83706 WWW.LKVARCHITECTS.CO 208.336.3443	T S
COVER 40 YEARS OF EXCELL Project NO. 22-104 COVER 40 YEARS OF EXCELL PRELIMINAL COVER 40 YEARS OF EXCELL PROJECT NO. 22-104	P.A. Vay
Jefferson Elementary School Addition and Remodel	600 N. Fillmore Street, Jerome, Idaho
DATE: JANUARY 9, 2023 LKV PROJECT #: - REVISIONS:	
DRAWN BY: JM/CD CHECKED BY: BC Design Development	
drawing no.	2

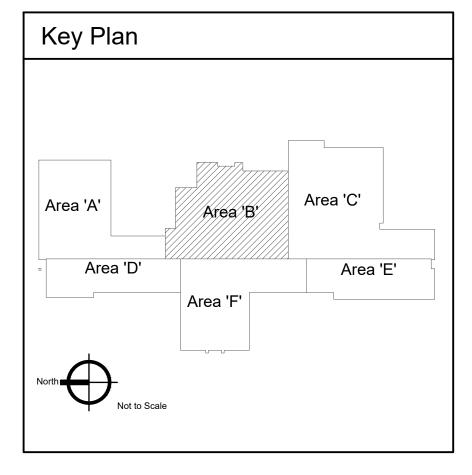


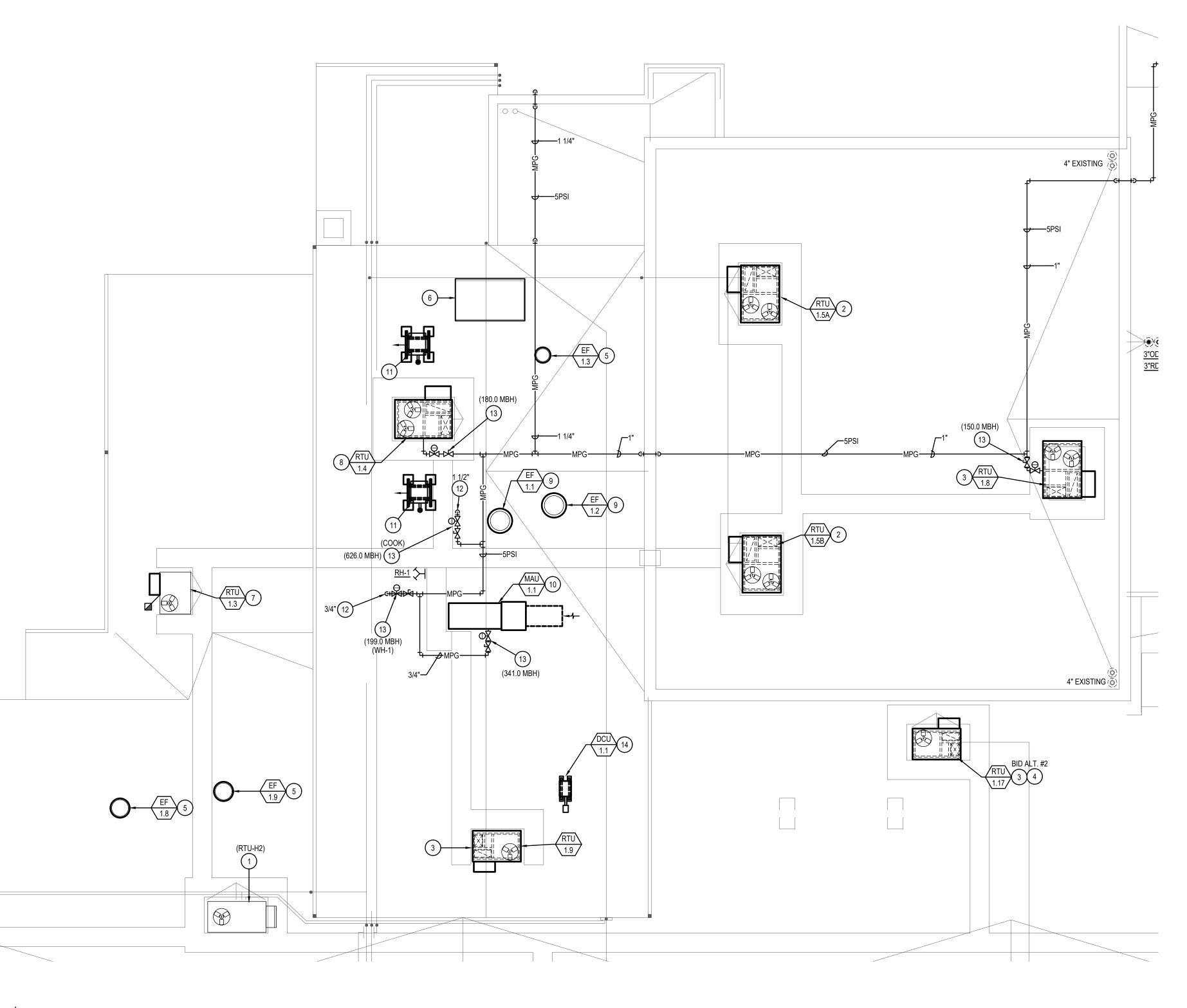


KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. NO WORK TO EXISTING UNIT REMAIN AS IS.
- 2. REMOVE EXISTING UNIT AND EXISTING CURB. ROOF PENETRATION SHALL BE REUSED.
- 3. REMOVE EXISTING UNIT AND EXISTING CURB UNDER BID ALT. #2.
- 4. REMOVE EXISTING EXHAUST FAN AND CURB, PATCH ROOF TO MATCH EXISTING.
- 5. EXISTING RTU SHALL REMAIN.







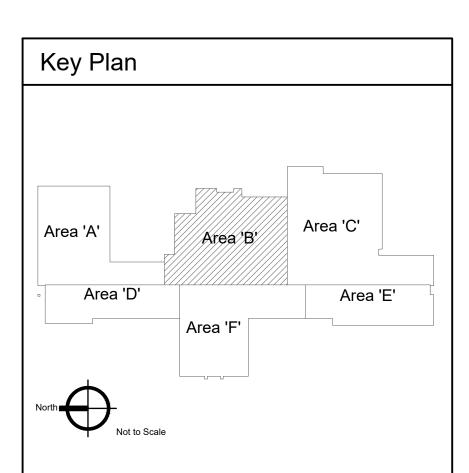
Mechanical New Work Roof Plan - Area 'B' Scale: 1/8" = 1'-0"

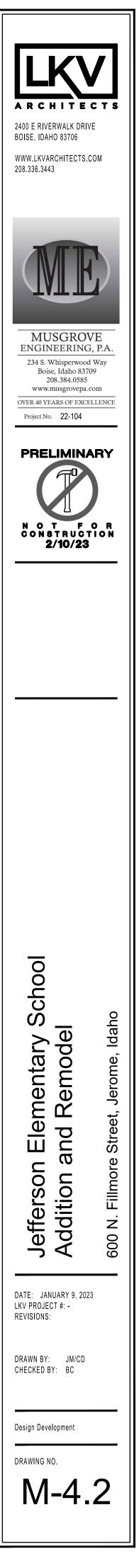


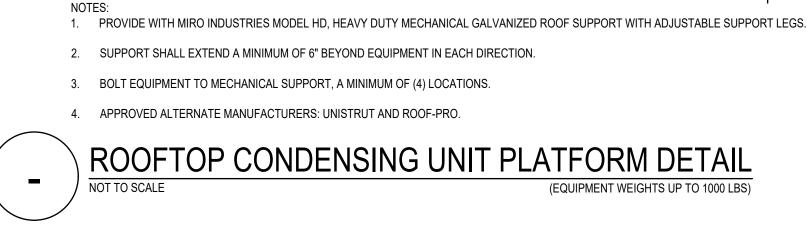
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

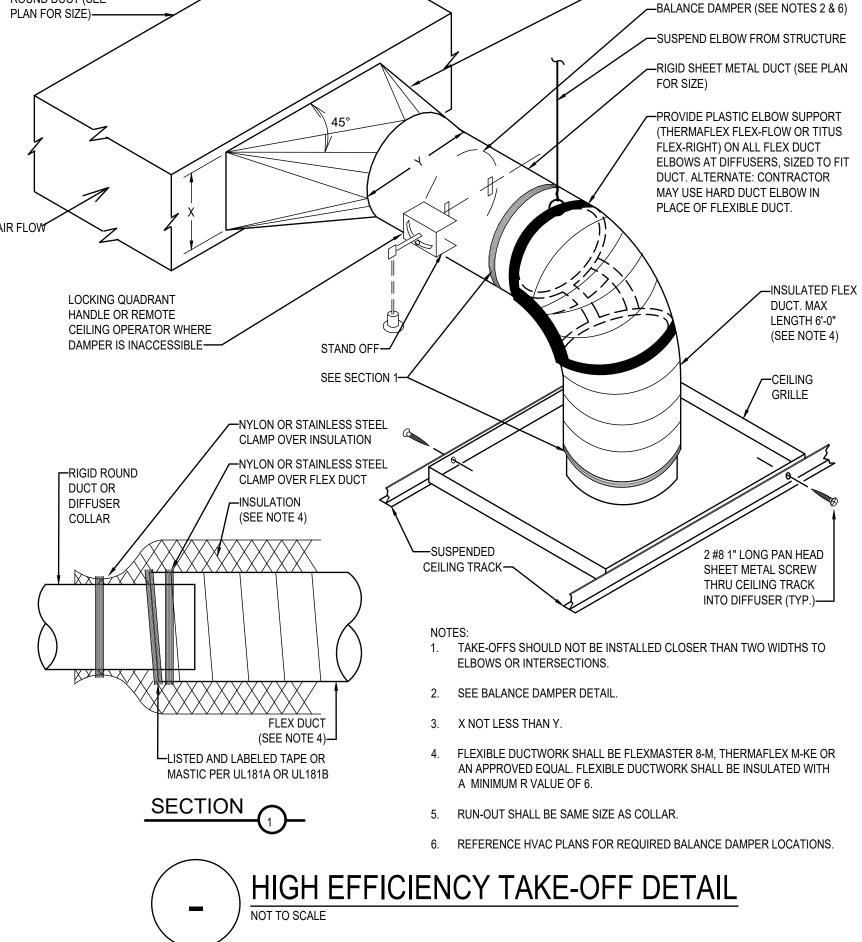
- 1. NO WORK TO EXISTING UNIT REMAIN AS IS.
- 2. PROVIDE NEW ISO ROOF CURB, ROOF PENETRATION SHALL BE REUSED. PATCH ROOF TO MATCH EXISTING CONDITIONS. SET NEW RTU ON ISO CURB, SEE ISO CURB DETAIL. USE EXISTING GAS LINE AND VALVE (S), CONNECT TO NEW UNIT.
- 3. PROVIDE NEW ROOF CURB, ROOF PENETRATION SHALL BE REUSED. PATCH ROOF TO MATCH EXISTING CONDITIONS. SET NEW RTU ON CURB, SEE CURB DETAIL. USE EXISTING GAS LINE AND VALVE (S), CONNECT TO NEW UNIT.
- 4. WORK TO BE DONE UNDER BID ALT. #2.
- PROVIDE NEW CURB AND EXHAUST FAN. SET EXHAUST FAN ON CURB. SEE EXHAUST FAN DETAIL.
- 6. CAP UNUSED EXISTING CURB WEATHER TIGHT.
- 7. EXISTING RTU SHALL REMAIN, PROVIDE NEW ECONOMIZER AND POWER EXHAUST. SEE RTU SCHEDULE FOR FURTHER INFORMATION.
- 8. PROVIDE NEW ISO ROOF CURB AND SET RTU ON ISO CURB. SEE ISO CURB DETAIL.
- 9. SET NEW EXHAUST FAN ON FAN CURB FOR TYPE II HOOD, FAN CURB AND FAN SHALL BE PROVIDEED FOR TYPE I READINESS.
- 10. MOUNT MAKE UP AIR UNIT ON ROOF.
- 11. HVAC CONTRACTOR SHALL PROVIDE MIRRO STAND FOR KITCHEN WALK IN COOLER AND FREEZER. PROVIDED BY OTHERS. COORDINATE SIZE AND WEIGHT WITH COOLER/FREEZER SUPPLIER, SEE DETAIL.
- 12. ROUTE GAS LINE DOWN THROUGH ROOF, SEAL PENETRATION WEATHER TIGHT.
- 13. PROVIDE GAS PRESSURE REGULATOR, REDUCE PRESSURE FROM 5 PSI DOWN TO 7"WC, PROVIDE SHUT OFF VALVE. SEE DETAIL.
- 14. PROVIDE EQUIPMENT STAND FOR CONDENSING UNIT.







SUPPORT DIMENSIONS PER JOB SPECIFIC REQUIREMENTS--PROVIDE WITH GRATING -BASE SIZE DETERMINED FOR JOB SPECIFIC LOADING REQUIREMENTS: - 450 LBS OR LESS REQUIRES (4) 9"x15-1/4" - 750 LBS OR LESS REQUIRES (4) 16"x18" - 1000 LBS OR LESS REQUIRES (4) 19"x23" MIRO RECYCLED RUBBER SUPPORT PADS. -PROVIDE AN ADDITIONAL LAYER OF ROOFING SIZE DETERMINED BY THE BASE SIZE USED: MEMBRANE BENEATH PLATFORM BASE. - 9"x15-1/4" REQUIRES SUPPORT PAD 22 x 20 COORDINATE REQUIREMENTS WITH THE - 16"X18" REQUIRES SUPPORT PAD 22 x 20 ROOFING CONTRACTOR. - 19"x23" REQUIRES SUPPORT PAD 24 x 27 ROOF



RECTANGULAR OR

ROUND DUCT (SEE

AIR FLOW

NOTES:

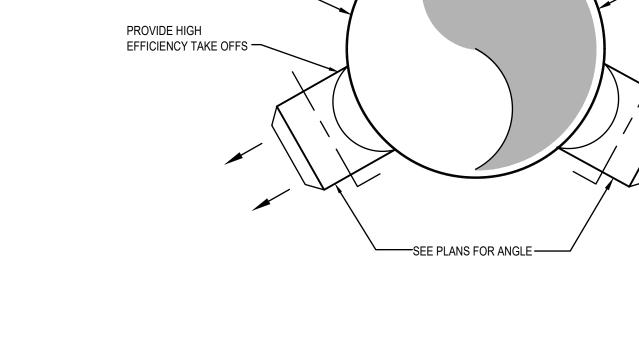
VOLUME DAMPER

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(SEE NOTE 1)-

STAND-OFF

-HIGH EFFICIENCY DUCT TAKE-OFF (SEE NOTES 1 & 3)



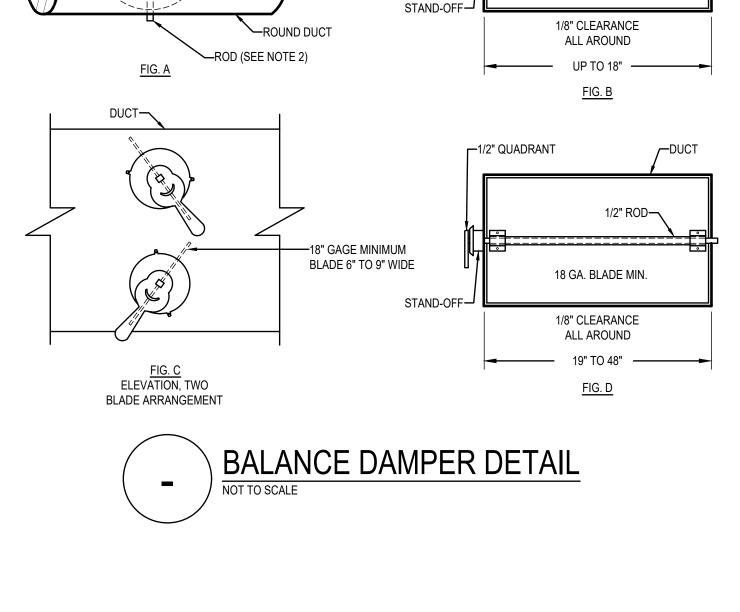
MOUNT SUPPLY AIR MAIN

SEE SPECIFICATIONS FOR

DUCTWORK FITTING

REQUIREMENTS.

BETWEEN LIGHTS -----



1. FOR TAKE-OFFS LARGER THAN 12" DIAMETER, USE A FACTORY MANUFACTURED DAMPER. LOUVERS &

6. ALTERNATE MANUFACTURERS INCLUDE: AMERICAN WARMING, SAFE-AIR/DOWCO, J&J, LOUVERS &

DAMPER BLADE

(SEE NOTE 3)

□ - 3/8" QUADRANT □ DUCT □ HEMMED EDGE

22 GA. BLADE

3/8" PIN-

DAMPERS, INC. MODEL CD-600 WITH A LOCKING HAND QUADRANT OR EQUAL.

2. ROD CONTINUOUS ON 2" W.G. CLASS AND ON ALL DAMPERS OVER 12" DIAMETER.

4. PROVIDE REMOTE CEILING OPERATOR WHERE DAMPER IS INACCESSIBLE.

5. FOR DUCTS OVER 12" HIGH USE MULTIPLE BLADE DAMPERS (SEE FIG. C).

DAMPERS, RUSKIN, NAILOR, ARROW UNITED, POTTORFF, & CESCO.

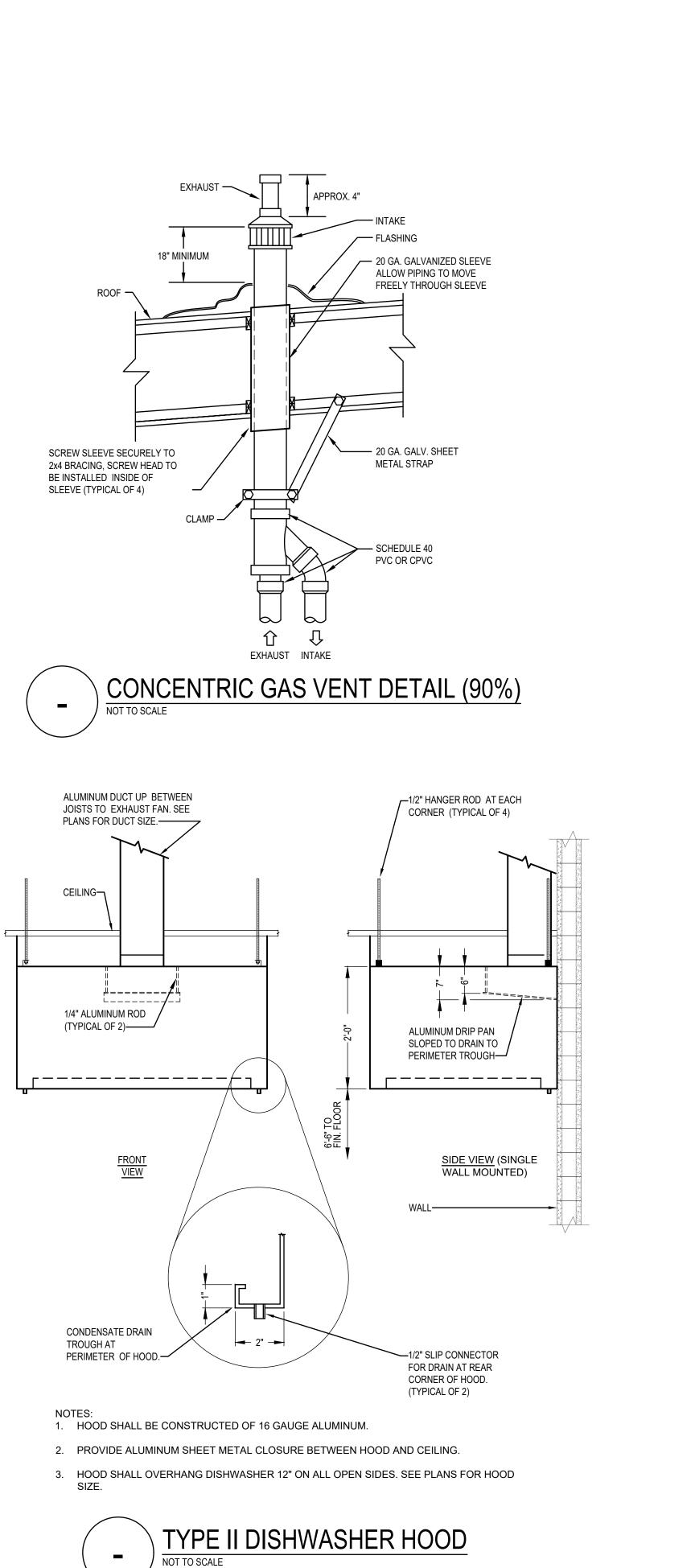
-DAMPER ARM

(SEE NOTE 4)

-WING NUT

7. PROVIDE STAND-OFF FOR DAMPER ARMS LOCATED W/EXTERNAL INSULATION.

3. BLADE 22 GAGE MIN., BUT NOT LESS THAN TWO GAGES MORE THAN THE DUCT GAGE.





- SUSPEND FROM TOP OF DUCT

SUPPORT BAND AND SECURE

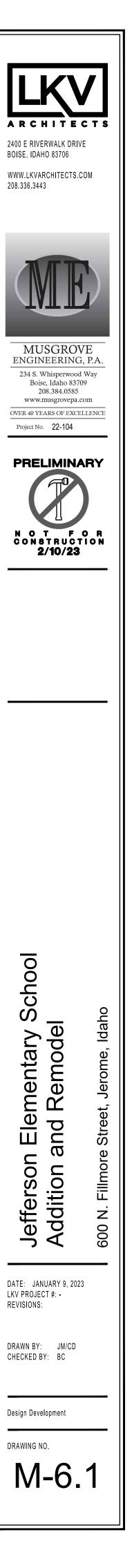
ROD TO STRUCTURE ABOVE.

- SEE PLANS AND

SPECS FOR FINISH.

- SIZE TAP TO FIT FLUSH ON ALL

SIDES WITH EDGE OF GRILLE.



	PACKAGED AIR CONDITIONING SCHEDULE																									
SYMBOL		NOM.	NOM.	NOM.	NOM.		NOM.	SUPPLY FAN				LING CAP/ A, 80°EDB,			EATING ACITY	RTI	JELECTR	ICAL	ELECTRICAL POWER EXHAUST			OSA	MIN. SEER /	OPER. WEIGHT		REMARKS
STMDUL	AREA SERVED	TONS	CFM	ESP	BRAKE BHP	DRIVE	STAGES	TOTAL MBH	SENS. MBH	INPUT MBH	OUTPUT MBH	MCA	МОСР	V/Ø	HP	MCA	МОСР	V/Ø	CFM	EER	(LBS)	MANUFACTURER AND MODEL	REMARKS			
<u>RTU-1.1</u>	CLASSROOM 120	4	1600	.50	.72	DIRECT ECM	1	42.8	41.3	120.0 / 150.0	96.0 / 120.0	24.0	30	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	CARRIER 48FC-05 STANDARD EFFICIENCY	1,2,3,8,9,10			
<u>RTU-1.2</u>	CLASSES 132, 134 & 136	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	320	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1,2,3,8,9,10			
<u>RTU-1.3</u> Existing	FACILITY	4	1600	.50	.72	DIRECT ECM	1	42.8	41.3	115.0	93.0	24.0	30	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	EXISTING CARRIER MODEL 48KCEA05A2A5A0A0A0 RELOCATED.	1 , 2 , 8 , 11			
<u>RTU-1.4</u>	KITCHEN	7.5	3000	.50	2.4	DIRECT ECM	2	81.7	78.4	120.0 / 180.0	98.0 / 148.0	39.0	50	208/3	N/A	N/A	N/A	208/3	320	11.2 EER	1900	CARRIER 48FC-08 STANDARD EFFICIENCY	1,2,6,8,9,10			
<u>RTU-1.5A</u>	CAFETERIA	10	4000	.50	2.4	DIRECT ECM	2	117.0	113.4	180.0/ 224.0	146.0/ 181.0	45.0	60	208/3	2	8.0	14.4	208/3	320	11.0 EER	2000	CARRIER 48FC-12 STANDARD EFFICIENCY	1,2,6,8,9,10			
<u>RTU-1.5B</u>	CAFETERIA	10	4000	.50	2.4	DIRECT ECM	2	117.0	113.4	180.0/ 224.0	146.0/ 181.0	45.0	60	208/3	2	8.0	14.4	208/3	320	11.0 EER	2000	CARRIER 48FC-12 STANDARD EFFICIENCY	1,2,7,8,9,10			
<u>RTU-1.6</u>	STAGE	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	320	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1,2,3,8,9,10			
<u>RTU-1.7A</u>	GYM	15	6000	.50	3	DIRECT ECM	2	166.7	163.8	280.0 / 350.0	224.0 / 284.0	67.0	80	208/3	3	11.5	20.7	208/3	800	10.8 EER	3000	CARRIER 48FC-16 STANDARD EFFICIENCY HORIZONTAL DISCHARGE	1,2,6,8,9,10			
<u>RTU-1.7B</u>	GYM	15	6000	.50	3	DIRECT ECM	2	166.7	163.8	280.0 / 350.0	224.0 / 284.0	67.0	80	208/3	3	11.5	20.7	208/3	800	10.8 EER	3000	CARRIER 48FC-16 STANDARD EFFICIENCY HORIZONTAL DISCHARGE	1,2,7,8,9,10			
<u>RTU-1.8</u>	GYM FOYER	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	320	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1,2,3,8,9,10			
<u>RTU-1.9</u>	MULTIPURPOSE CLASS	4	1600	.50	.72	DIRECT ECM	1	42.8	41.3	120.0 / 150.0	96.0 / 120.0	24.0	30	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	CARRIER 48FC-05 STANDARD EFFICIENCY	1,2,3,8,9,10			
<u>RTU-1.10</u>	ADMIN	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1 , 2 , 3 , 8 , 9 , 10			
<u>RTU-1.11</u>	COMPUTER LAB	5	2000	.50	1.06	DIRECT ECM	1	53.7	53.7	120.0 / 150.0	96.0 / 120.0	29.0	40	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	CARRIER 48FC-06 STANDARD EFFICIENCY	1 , 2 , 3 , 8 , 9 , 10			

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: BRYANT, TRANE, AAON, LENNOX, AND YORK.

2. UNIT SHALL BE CONTROLLED BY DDC, CONTROLLER PROVIDED BY DDC CONTRACTOR

3. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), HAIL GUARDS, LOW AMBIENT CONTROLS (TO 0°F), FLUE EXTENDER, HIGH ALTITUDE KIT, THRU-THE-BOTTOM OF CURB ELECTRICAL CONNECTION KIT, HINGED ACCESS PANELS. MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS, MICROMETL CENTRIFUGAL POWER EXHAUST (100% RELIEF) WITH WIRING HARNESS AND JADE CONTROLLER (STANDALONE TSTAT) ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.

4. PROVIDE UNIT WITH MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), PROVIDE MANUFACTURER'S FLUE EXTENDER, HAIL GUARDS, HIGH ALTITUDE KIT, HINGED ACCESS PANELS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS, MICROMETL CENTRIFUGAL POWER EXHAUST (100% RELIEF) WITH WIRING HARNESS AND JADE CONTROLLER (USE JADE ONLY FOR STANDALONE TSTAT). ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.

5. PROVIDE UNIT WITH MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), PROVIDE UNIT WITH MANUFACTURERS FLUE EXTENDER, HAIL GUARDS, HIGH ALTITUDE KIT, HINGED ACCESS PANELS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS AND AUX END SWITCH, MICROMETL MODULATING POWER EXHAUST WITH VARIABLE SPEED MOTOR CONTROLLER (100% RELIEF) WIRING HARNESS AND JADE CONTROLLER (USE JADE ONLY FOR STANDALONE TSTAT), PRESSURE SENSOR SET TO .02 POSITIVE PRESSURE. ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.

6. PROVIDE UNIT WITH MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), PROVIDE MANUFACTURER'S FLUE EXTENDER, HAIL GUARDS, HIGH ALTITUDE KIT, HINGED ACCESS PANELS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS, REMOTE DUCT MOUNTED MICROMETL CENTRIFUGAL POWER EXHAUST (100% RELIEF) WITH WIRING HARNESS AND JADE CONTROLLER (USE JADE ONLY FOR STANDALONE TSTAT). ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.

7. PROVIDE UNIT WITH MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), PROVIDE UNIT WITH MANUFACTURERS FLUE EXTENDER, HAIL GUARDS, HIGH ALTITUDE KIT, HINGED ACCESS PANELS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS AND AUX END SWITCH. REMOTE DUCT MOUNTED MICROMETL MODULATING POWER EXHAUST WITH VARIABLE SPEED MOTOR CONTROLLER (100% RELIEF) WIRING HARNESS AND JACE CONTROLLER (USE JADE ONLY FOR STANDALONE TSTAT), PRESSURE SENSOR SET TO .02 POSITIVE PRESSURE. ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.

8. C02 SENSOR PROVIDED BY DDC CONTRACTOR. OUTSIDE AIR SHALL HAVE A MINIMUM SETPOINT OF ZERO AND THE DAMPER SHALL MODULATE OPEN AS REQUIRED TO SATISFY THE C02 SENSOR. THE OSA CFM LISTED IN THIS SCHEDULE SHALL BE THE MAXIMUM OSA DAMPER SETPOINT (IF NOT IN ECONOMIZER MODE). THE OUTSIDE AIR DAMPER SHALL CLOSE DURING THE UNOCCUPIED MODE.

9. PROVIDE 2" PLEATED MERV 8 FILTER AND FILTER RACK WITH 4 EXTRA SETS PER UNIT.

10. MAXIMUM "A-WEIGHTED" SUPPLY AIR SOUND RATINGS FOR UNITS 2-18 TONS = 95 DB @ 125 HZ, 90 DB @ 250 HZ, PER ARI STANDARDS 270 & 370.

11. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), HAIL GUARDS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS, MICROMETL CENTRIFUGAL POWER EXHAUST (100% RELIEF) WITH WIRING HARNESS AND JADE CONTROLLER (STANDALONE TSTAT) ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED. COMB OUT BENT FINS, CHANGE FILTER WITH A 2" MERV 8 AND INSPECT UNIT, REPORT ANY DEFICIENCIES.

			DUC	TLE	SS	SPLI	тні	GH V	WAI	_L C	COOL	ING	UNIT SCHEDULE	
SYMPOL	SYMBOL AREA SERVED	NOMINAL		SUPPL	Y FAN		CAPACITY °F OSA		LECTRICA		MINIMUM	INDOOR / OUTDOOR		DEMARKS
SYMBOL	AREA SERVED	TONS	UNIT TYPE	CFM	V/Ø	TOTAL (MBH)	SENSIBLE (MBH)	MCA	MOCP	V/Ø	SEER	WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
DFC-1.1 DCU-1.1	I.T. ROOM	1.0	HIGH WALL COOLING ONLY	305	THRU O/U	12.0	8.5	11	15	208/1	19.0	20 / 65	0 / 65 CARRIER FAN COIL MODEL 40MHH12 CARRIER CONDENSING UNIT MODEL 38MHRBC12 1,	

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: LENNOX, MITSUBISHI, PANASONIC, SAMSUNG, LG, DAIKIN, OR APPROVED EQUAL BY ENGINEER.

2. CONTROL UNIT WITH MANUFACTURER'S HARD-WIRED WALL MOUNTED 7 DAY PROGRAMMABLE THERMOSTAT.

3. PROVIDE MANUFACTURERS CRANKCASE HEATER, LOW AMBIENT CONTROLS & (TO 0°F) WIND BAFFLES, REFRIGERATION LINE SET SIZED BY MANUFACTURER, AND TAMPER PROOF PORT CAPS.

4. PROVIDE WITH BIG FOOT MECHANICAL ROOF SUPPORT WITH ADJUSTABLE SUPPORT LEGS. SUPPORT SHALL EXTEND A MINIMUM OF 6" BEYOND EQUIPMENT IN EACH DIRECTION. BOLT EQUIPMENT TO MECHANICAL SUPPORT.

5. PROVIDE WITH MANUFACTURER'S CONDENSATE PUMP, LITTLE GIANT MINI CONDENSATE PUMP, CONCEAL PUMP BEHIND UNIT WITHIN MOUNTING BRACKET ASSEMBLY. PUMP SHALL BE POWERED BY FAN COIL.

6. ELECTRICAL TO PROVIDE DISCONNECT.

					PAC	CKA	GED) Alf	R C(ONE	ΟΙΤΙΟ	DNI	NG	SCF	HED	ULI	ΞBI	DA	LT#	2			
SYMBOL	AREA SERVED	NOM.		SUPP	LY FAN			LING CAP/ A, 80°EDB,			EATING ACITY	RTL	JELECTR	CAL	ELEC	TRICAL P	OWER EXH	HAUST	OSA	MIN. SEER /	OPER. WEIGHT	MANUFACTURER AND MODEL	REMARKS
STMBOL		TONS	CFM	ESP	BRAKE BHP	DRIVE	STAGES	TOTAL MBH	SENS. MBH	INPUT MBH	OUTPUT MBH	MCA	МОСР	V/Ø	HP	MCA	MOCP	V/Ø	CFM	EER	(LBS)		NEMANNO
<u>RTU-1.13</u>	HALLWAYS	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1,2,3,5,6,7
<u>RTU-1.14</u>	CLASS ROOMS	10	4000	.50	2.4	DIRECT ECM	2	117.0	113.4	180.0/ 224.0	146.0/ 181.0	45.0	60	208/3	2	8.0	14.4	208/3	320	11.0 EER	2000	CARRIER 48FC-12 STANDARD EFFICIENCY	1,2,4,5,6,7
<u>RTU-1.15</u>	MEDIA	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	320	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1,2,3,5,6,7
<u>RTU-1.16</u>	CLASS ROOMS	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	320	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1,2,3,5,6,7
<u>RTU-1.17</u>	CLASS ROOMS	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	320	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1,2,3,5,6,7
<u>RTU-1.18</u>	CLASS ROOMS	10	4000	.50	2.4	DIRECT ECM	2	117.0	113.4	180.0/ 224.0	146.0/ 181.0	45.0	60	208/3	2	8.0	14.4	208/3	320	11.0 EER	2000	CARRIER 48FC-12 STANDARD EFFICIENCY	1,2,4,5,6,7
<u>RTU-1.19</u>	CLASS ROOMS	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	320	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1,2,3,5,6,7
<u>RTU-1.20</u>	CLASS ROOM	4	1600	.50	.72	DIRECT ECM	1	42.8	41.3	120.0 / 150.0	96.0 / 120.0	24.0	30	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	CARRIER 48FC-05 STANDARD EFFICIENCY	1,2,3,5,6,7
<u>RTU-1.21</u>	CLASS ROOM	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1,2,3,5,6,7
<u>RTU-1.22</u>	CLASS ROOM	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1,2,3,5,6,7
<u>RTU-1.23</u>	CLASS ROOM	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1,2,3,5,6,7
<u>RTU-1.24</u>	CLASS ROOM	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1,2,3,5,6,7
<u>RTU-1.25</u>	CLASS ROOM	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	320	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1,2,3,5,6,7

1. APPROVED ALTERNATE MANUFACTURERS: BRYANT, TRANE, AAON, LENNOX, AND YORK.

2. UNIT SHALL BE CONTROLLED BY DDC, CONTROLLER PROVIDED BY DDC CONTRACTOR

3. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), HAIL GUARDS, LOW AMBIENT CONTROLS (TO 0°F), FLUE EXTENDER, HIGH ALTITUDE KIT, THRU-THE-BOTTOM OF CURB ELECTRICAL CONNECTION KIT, HINGED ACCESS PANELS. MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS, MICROMETL CENTRIFUGAL POWER EXHAUST (100% RELIEF) WITH WIRING HARNESS AND JADE CONTROLLER (STANDALONE TSTAT) ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.

4. PROVIDE UNIT WITH MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), PROVIDE MANUFACTURER'S FLUE EXTENDER, HAIL GUARDS, HIGH ALTITUDE KIT, HINGED ACCESS PANELS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS, MICROMETL CENTRIFUGAL POWER EXHAUST (100% RELIEF) WITH WIRING HARNESS AND JADE CONTROLLER (USE JADE ONLY FOR STANDALONE TSTAT). ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.

5. C02 SENSOR PROVIDED BY DDC CONTRACTOR. OUTSIDE AIR SHALL HAVE A MINIMUM SETPOINT OF ZERO AND THE DAMPER SHALL MODULATE OPEN AS REQUIRED TO SATISFY THE C02 SENSOR. THE OSA CFM LISTED IN THIS SCHEDULE SHALL BE THE MAXIMUM OSA DAMPER SETPOINT (IF NOT IN ECONOMIZER MODE). THE OUTSIDE AIR DAMPER SHALL CLOSE DURING THE UNOCCUPIED MODE.

- 6. PROVIDE 2" PLEATED MERV 8 FILTER AND FILTER RACK WITH 4 EXTRA SETS PER UNIT.
- 7. MAXIMUM "A-WEIGHTED" SUPPLY AIR SOUND RATINGS FOR UNITS 2-18 TONS = 95 DB @ 125 HZ, 90 DB @ 250 HZ, PER ARI STANDARDS 270 & 370.

	D	UCTL	ESS SI	⊃LIT	CE	ILING	G CAS	SETTE		VG a	& HE	ΞΑΤ	ING	UNIT	SCHEDULE	
SYMBOL	AREA SERVED	NOMINAL	UNIT TYPE	S	SUPPLY F	AN	COOLING REQ OSA, 80°F EI		HEATING REQUIRED AT 32°F OSA, 69°F EDB.		ELECTRICA		MINIMUM SEER /	INDOOR/ OUTDOOR OPERATING	MANUFACTURER AND MODEL	REMARKS
OTMBOL	BOL AREA SERVED TO			CFM	HP	V/Ø	TOTAL MBH	SENSIBLE MBH	TOTAL MBH	MCA	MOCP	V/Ø	HSPF	WEIGHT (LBS)		
<u>DFC-1.2,</u> <u>DHP-1.2</u>	WORK ROOM	1.5	CEILING CASSETTE COOL/HEAT UNIT	290-420	.061	THROUGH OUTDOOR UNIT	19.0	12.5	22.5	18	25	208/1	20.0/10.5	45/120	CARRIER INDOOR UNIT MODEL 40MBCQ18 CARRIER OUTDOOR UNIT MODEL 38MBRQ18	1 , 2 , 3 , 4 , 5 , 6

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: LENNOX, MITSUBISHI, PANASONIC, SAMSUNG, LG, DAIKIN, OR APPROVED EQUAL BY ENGINEER.

2. CONTROL UNIT WITH MANUFACTURER'S HARD-WIRED WALL MOUNTED 7 DAY PROGRAMMABLE THERMOSTAT WITH AUTO CHANGE OVER.

3. PROVIDE MANUFACTURERS CRANKCASE HEATER, LOW AMBIENT CONTROLS & (TO -13°F COOLING TO -22°F HEATING) WIND BAFFLES, REFRIGERATION LINE SET SIZED BY MANUFACTURER AND TAMPER PROOF PORT CAPS.

4. PROVIDE WITH MIRO IND. OR BIG FOOT HEAVY DUTY MECHANICAL ROOF SUPPORT WITH ADJUSTABLE SUPPORT LEGS. SUPPORT SHALL EXTEND A MINIMUM OF 6" BEYOND EQUIPMENT IN EACH DIRECTION. BOLT EQUIPMENT TO MECHANICAL SUPPORT.

5. PROVIDE WITH MANUFACTURER'S CONDENSATE PUMP, OR LITTLE GIANT MINI CONDENSATE PUMP, CONCEAL PUMP BEHIND UNIT WITHIN MOUNTING BRACKET ASSEMBLY. ELECTRICAL CIRCUIT FOR PUMP SHALL BE INTEGRATED TO FAN COIL.

6. ELECTRICAL TO PROVIDE DISCONNECT AND HEAT TRACE BENEATH UNIT AND TO ROOF DRAIN.

								ENERGY RECOVERY I
SYMBOL	SUP	PPLY	EXH	AUST	ELECT	RICAL	WEIGHT	
STNIDOL	CFM	ESP	CFM	ESP	WATTS	V/Ø	(LBS)	
<u>ERV-1.1</u>	65	.40	85	.40	100	120/1	45	PANASONIC FV-10VEC2

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: UPON PRIOR APPROVAL OF ENGINEER.

2. PROVIDE WITH EXHAUST ONLY FROST PREVENTION CONTROLS, HI/LOW SPEED, ADJUSTABLE SUPPLY AND EXHAUST FLOW DIALS, MERV 8 FILTERS IN EACH AIR STREAM, 6 YEAR WARRANTY, VIBRATION ISOLATORS ON EACH HANGING ROD, FLEXIBLE DUCT CONNECTIONS, HINGED ACCESS PANELS, AND FILTER ALARM. PROVIDE UNIT WITH UL APPROVAL LISTING.

3. ELECTRICAL TO PROVIDE DISCONNECT AND SPECIAL CONNECTION. UNIT IS EQUIPMENT WITH WALL PLUG.

UNIT SCHEDULE

MANUFACTURER AND MODEL

REMARKS

1,2,3

A R C H I T E C 2400 E RIVERWALK DRIVE BOISE, IDAHO 83706 WWW.LKVARCHITECTS.CO 208.336.3443	TS
MUSGROVI SUBJECTION STATES MUSCINAL ST	P.A. /ay n ENCE
Jefferson Elementary School Addition and Remodel	600 N. Fillmore Street, Jerome, Idaho
DATE: JANUARY 9, 2023 LKV PROJECT #: - REVISIONS: DRAWN BY: JM/CD CHECKED BY: BC	
Design Development DRAWING NO. M-7.0	

				ELE	CTR		IEAT	ER S	SCHI	EDULE	
		UNIT TYPE		FAN			ELECT	RICAL			DEMADIZO
SYMBOL	AREA SERVED		CFM	RPM	HP	KW	STEPS	V/Ø	AMPS	MANUFACTURER AND MODEL	REMARKS
<u>EH-1.1</u>	VESTIBULE	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 4 , 6
<u>EH-1.2</u>	HALL ENTRY	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 4 , 6
<u>EH-1.3</u>	RISER	SURFACE MOUNTED	245	1400	1/8	2	1	208/1	9.6	MARKEL MODEL 3420 SERIES	1,2,3,5
<u>EH-1.4</u>	VESTIBULE 164	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 4 , 6
<u>EH-1.5</u>	HALL ENTRY	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 4 , 6

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: BRASCH, QMARK, MARKEL, INDEECO, OUELLET, AND CHROMALOX.

2. PROVIDE UNIT WITH AN INTEGRAL THERMOSTAT. THERMOSTAT SHALL BE COVERED WITH A TAMPER-PROOF ACCESS COVER.

3. PROVIDE SURFACE MOUNTING KIT.

4. ADJUST HEATER TO OPERATE AT 60°F.

5. ADJUST HEATER TO OPERATE AT 50°F.

6. PROVIDE REMOTE LINE VOLTAGE THERMOSTAT ON WALL. FINISH THERMOSTAT WITH LOCKABLE COVER.

					DES	STF	RAT	IFIC	ATIO	N FAN SCHEDULE	
SYMBOL	AREA SERVED	F	AN	EL	ECTRICA		WEIGHT		MAXIMUM	MANUFACTURER AND MODEL	REMARKS
STMBOL	AREA SERVED	CFM	RPM	V/Ø W	IATTS	AMPS	LBS.	dBA	Mounting Height	MANUFACTURER AND MODEL	REWARKS
<u>DSF-1.1</u>	GYM	1128	2700	120/1	175	1.48	14	64	45'	AIRIUS MODEL AIR PEAR A-45-P2	1,2,3,4,5
DSF-1.2	GYM	1128	2700	120/1	175	1.48	14	64	45'	AIRIUS MODEL AIR PEAR A-45-P2	1 , 2 , 3 , 4 , 5

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: WITH PRIOR APPROVAL OF ENGINEER.

2. PROVIDE UNIT WITH PCS MOTOR, SEALED BEARINGS, 6' CORD, GUARD GRILLE, STATOR, 6' STEEL SAFETY CABLE AND HANGING BRACKET.

3. CONTROL UNIT WITH MANUFACTURES WALL MOUNTED (TRIAC-120-1.5 FOR PCS MOTOR) SPEED CONTROLLER, IN ADDITION TO THE SPEED CONTROLLER, CONTROL SCHEDULE OF USE BY DDC.

4. PROVIDE OFF WHITE COLOR.

5. FAN SHALL BE INTEGRATED TO THE FIRE CONTROL PANEL. INCLUDES A 10-30 VDC PILOT RELAY FOR SEAMLESS FIRE CONTROL PANEL INTEGRATION. THE PILOT RELAY CAN BE WIRED NORMALLY OPEN OR NORMALLY CLOSED IN THE FIELD.

					EX	HAU	ST F	AN S	SCHE	EDULE		
0)////201				BLC	OWER		ELECT	RICAL	MAXIMUM	OPERATING WEIGHT		DEMARKO
SYMBOL	AREA SERVED	UNIT TYPE	CFM	ESP	MAXIMUM RPM	DRIVE	HP/W	V/Ø	SONES	(LBS)	MANUFACTURER AND MODEL	REMARKS
<u>EF-1.4</u>	FACULTY RR	CEILING CABINET	100	.375	1075	DIRECT	46.5 W	115/1	2.5	15	COOK MODEL GC-148	1 , 2 , 4
<u>EF-1.5</u>	MECHANICAL ROOM	CEILING CABINET	75	.375	900	DIRECT	36.2 W	115/1	1.5	15	COOK MODEL GC-146	1 , 2 , 4
<u>EF-1.6</u>	BACK STAGE RR	ROOFTOP UPBLAST	250	.375	1550	DIRECT	1/8 HP	115/1	4.5	55	COOK MODEL ACRU-D-90R	1,3,5
<u>EF-1.7</u>	RESTROOMS 122/123	ROOFTOP UPBLAST	1000	.375	1725	BELT	1/6 HP	115/1	9.9	125	COOK MODEL ACRU-B-135R	1,3,5
<u>EF-1.8</u>	RESTROOM 139	ROOFTOP UPBLAST	700	.375	1725	BELT	1/6 HP	115/1	10.4	75	COOK MODEL ACRU-B-100R	1,3,5
<u>EF-1.9</u>	RESTROOM 141 & JAN 140	ROOFTOP UPBLAST	875	.375	1725	BELT	1/4 HP	115/1	12.6	75	COOK MODEL ACRU-B-100R	1,3,5
<u>EF-1.10</u>	RESTROOM 193	ROOFTOP UPBLAST	400	.375	1725	BELT	1/6 HP	115/1	7.9	75	COOK MODEL ACRU-B-100R	1,3,5
<u>EF-1.11</u>	RESTROOM 194	ROOFTOP UPBLAST	400	.375	1725	BELT	1/6 HP	115/1	7.9	75	COOK MODEL ACRU-B-100R	1,3,5

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: ACME, GREENHECK, PENNBARRY, TWIN CITY FAN COMPANY, SOLER & PALAU

2. PROVIDE UNIT WITH MANUFACTURER'S ALUMINUM ROOF CAP (FLAT ROOF) EQUAL TO COOK MODEL PR (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODE SCREEN, FLASHING FLANGE AND BLACK EPOXY FINISH), BACKDRAFT DAMPER, OUTLET FLEX DUCT CONNECTION, STANDARD PLUG DISCONNECT, PRE-WIRED FAN SPEED CONTROLLER, THERMAL OVERLOAD PROTECTION, HANGING VIBRATION ISOLATORS, AND WHITE ALUMINUM GRILLE.

3. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB W/ DAMPER TRAY AND BACKDRAFT DAMPER, THERMAL OVERLOAD PROTECTION (120 VOLT ONLY), PRE-WIRED NEMA 3R ELECTRICAL DISCONNECT SWITCH, AND INTEGRAL BIRD SCREEN.

4. CONTROL FAN WITH SEPARATE WALL SWITCH

5. CONTROL FAN WITH DDC. EXHAUST FAN SHALL OPERATE DURING OCCUPIED HOURS.

					EXH	AUST	HOOD	SCHE	DULE	=		
SYMBOL	ТҮРЕ	HOOD DIN	MENSIONS		EXHAUST AIR		MAKE-	UP AIR		WEIGHT		DEMADIZO
STMBOL	ITPE	LENGTH	DEPTH	AIRFLOW CFM	DUCT CONNECITON	MAX S.P. LOSS	AIRFLOW CFM	DUCT CONNECTION	PLENUM WIDTH	LBS.	MANUFACTURER AND MODEL	REMARKS
<u>H-1.1</u>	TYPE II EXHAUST HOOD (MAIN) (FRONT PSP MAKE-UP)	14'-0"	60"	2800	(2)14"Ø	-0.173"	2240	28"X12"	14"	850	CAPTIVEAIRE MODEL 6024 VHB-G-PSP-F TYPE 2 HOOD. WITH DEMAND VENTILATION.	1,2,3,4
<u>H-1.2</u>	TYPE II EXHAUST HOOD (MAIN) (FRONT PSP MAKE-UP)	14'-0"	60"	2800	(2)14"Ø	-0.173"	2240	28"X12"	14"	850	CAPTIVEAIRE MODEL 6024 VHB-G-PSP-F TYPE 2 HOOD. WITH DEMAND VENTILATION.	1,2,3,4
<u>H-1.3</u>	TYPE II DISHWASHER HOOD	3'-6"	48"	525	10"Ø	-0.069"	N/A	N/A	N/A	200	CAPTIVEAIRE MODEL 4824 VHB-G-ND	3

REMARKS:

REMARKS:

1. HOOD SYSTEM(S) SHALL BE BY THE SAME MANUFACTURER.

2. PROVIDE WITH REMOTE MOUNTED CONTROLS (INCLUDING VFDs, HMI CABLE, CONTACTORS, AND TEMPERATURE SENSOR) AND ENERGY MANAGEMENT SYSTEM OVERRIDE.

3. PROVIDE HOOD WITH STAINLESS STEEL CEILING WRAP, EXHAUST COLLAR, FULL CONDENSATE CHANNEL AND DRAIN CONNECTION.

4. PROVIDE HOOD WITH STAINLESS STEEL END PANELS AND PERFORATED SUPPLY PLENUMS WITH COLLARS.

						GA	S FI	IREI	D M	AKE	E-UF	P Al	R UNI	IT SCI	HEDU	LE				
CV/MDOI		TYPE		SUPPL	_Y FAN		E	LECTRICA	AL.	TEMP	GAS H	EATING	EVAP. FLOW	EVAP. COOLER	EVAP.	EVAP.	WEIGHT	CONFO		REMARKS
STMBOL	SYMBOL AREA SERVED	TYPE	MAX. CFM	ESP	HP	RPM	V/Ø	MCA	MOCP	(°F)	INPUT MBH	OUTPUT MBH	(GAL/HR)	EDB TEMP.	COOLER LDB TEMP.	COOLER LWB TEMP.	(LBS)	SUNES	MANUFACTURER AND MODEL	REMARKS
<u>MAU-1.1</u>	TYPE II HOODS	OUTDOOR, DIRECT GAS FIRED	4480	.50	5.0	1860	208/3	18.8	30	78.0	341.0	314.4	6.22	91.0°F	72.0°F	63.0°F	1550	17	CAPTIVEAIRE MODEL A2-D.500-20D WITH DEMAND VENTILATION	1 , 2 , 3 , 4 , 5 , 6

1. MAKE UP AIR UNIT SHALL BE THE SAME MANUFACTURER AS THE TYPE I HOOD(S).

2. PROVIDE UNIT WITH STAINLESS STEEL BURNER, EVAPORATIVE COOLING SECTION WITH FREEZE PROTECTION DRAIN DOWN VALVE KIT, FILTER RACK AND FILTERS, INSULATED DOWNTURN PLENUM CABINET, MOTORIZED BACKDRAFT DAMPER, 100% OSA SCREENED INLET AIR HOOD AND FULL ROOF CURB.

3. PROVIDE UNIT WITH TOTALLY ENCLOSED PREMIUM EFFICIENCY MOTORS FOR VFD.

4. UNIT SHALL BE CONTROLLED BY HOOD CONTROL PANEL.

5. ELECTRICAL TO PROVIDE SEPARATE 120V/1Ø CIRCUIT FOR PLUMBING CONTROLS VALVES AT UNIT.

L	KITCHEN EXHAUST FAN SCHEDULE											
				BLO	WER		ELEC	TRICAL	MAXIMUM	OPERATING WEIGHT		DEMARKO
SYMBOL	AREA SERVED	UNIT TYPE	CFM	ESP	MAXIMUM RPM	DRIVE	HP	V/Ø	SONES	(LBS)	MANUFACTURER AND MODEL	REMARKS
<u>EF-1.1</u>	HOOD H-1.1	ROOF MOUNTED UP BLAST	2800	.50	1097	DIRECT	1.0	208/3	13.9	200	CAPTIVEAIRE MODEL DU180HFA WITH DEMAND VENTILATION	1,2,4
<u>EF-1.2</u>	HOOD H-1.2	ROOF MOUNTED UP BLAST	2800	.50	1097	DIRECT	1.0	208/3	13.9	200	CAPTIVEAIRE MODEL DU180HFA WITH DEMAND VENTILATION	1,2,4
<u>EF-1.3</u>	DISH HOOD H-1.3	ROOF MOUNTED UP BLAST	525	.50	1326	DIRECT	.33	115/1	12.2	125	25 CAPTIVEAIRE MODEL DU33HFA 1, 3, 5	1 , 3 , 5

1. EXHAUST FANS SHALL BE THE SAME MANUFACTURER AS THE HOOD(S).

2. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB (VENTED ROOF CURB IF EXHAUST DUCT IS SHAFTED RATHER THAN WRAPPED), THERMAL OVERLOAD PROTECTION (120 VOLT ONLY), PRE-WIRED NEMA 3R ELECTRICAL DISCONNECT SWITCH, HINGED SUB BASE, GREASE TERMINATOR

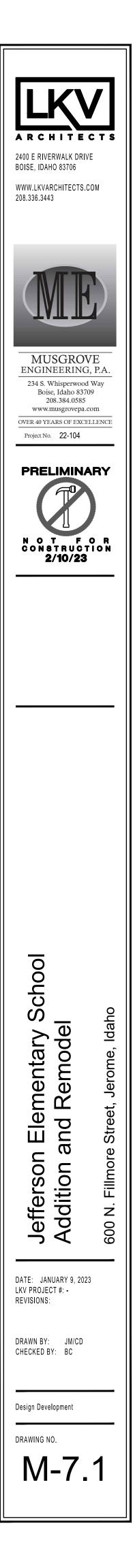
3. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB W/ DAMPER TRAY AND BACKDRAFT DAMPER, THERMAL OVERLOAD PROTECTION (120 VOLT ONLY), PRE-WIRED NEMA 3R ELECTRICAL DISCONNECT SWITCH, AND INTEGRAL BIRD SCREEN.

4. CONTROL FAN WITH HOOD CONTROL SYSTEM.

5. ELECTRICAL SHALL PROVIDE WALL SWITCH WITH PILOT LIGHT TO CONTROL FAN.

NOTE:

THE HOOD OVER THE COOKING EQUIPMENT IS A TYPE 2 BECAUSE THE KITCHEN WILL BE USED FOR REHEATING FOOD. HOWEVER THE EXHAUST DUCTWORK AND FANS SHALL BE FOR TYPE 1 USE. ALLOWING SCHOOL TO CHANGE THE HOOD TO TYPE 1 WITH FIRE SUPPRESSION IF THEY CHOOSE TO COOK AT THIS FACILITY AT A LATER DATE.



	SUPPL	Y GRILLE	SCHED	ULE
SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
G-1 CFM SIZE	6X6	6X6	0-180	1 , 2 , 3 , 4
G-2 CFM SIZE	12X8	12X8	180-450	1 , 2 , 3 , 4
G-3 CFM SIZE	14X10	14X10	400-700	1 , 2 , 3 , 4

REMARKS:

1. WALL GRILLE SIZES BASED ON TITUS MODEL 272F, DOUBLE DEFLECTION ADJUSTABLE BLADES, 3/4" SPACING, WHITE FINISH. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, TUTTLE & BAILEY, NAILOR, METAL-AIRE, KRUEGER, PRICE, AND UNITED ENERTECH.

2. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.

3. ALL OF THE GRILLES SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR GRILLE CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.

4. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.

DIFFUSER SCHEDULE									
SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS					
D-1 CFM 6"Ø	6X6	6"Ø	0 - 90	1,2,3,4,5,6,7					
D-2 CFM 8"Ø	9X9	8"Ø	90 - 200	1 , 2 , 3 , 4 , 5 , 6 , 7					
D-3 CFM 10"Ø	12X12	10"Ø	200 - 350	1 , 2 , 3 , 4 , 5 , 6 , 7					
D-4 CFM 12"Ø	15X15	12"Ø	300 - 500	1 , 2 , 3 , 4 , 5 , 6 , 7					
D-5 CFM 14"Ø	15X15	14"Ø	400 - 650	1 , 2 , 3 , 4 , 5 , 6 , 7					
D-6 CFM 16"Ø	18X18	16"Ø	600 - 900	1 , 2 , 3 , 4 , 5 , 6 , 7					
D-7 CFM 21X21	21X21	21X21	900 - 1400	1 , 2 , 3 , 4 , 5 , 6 , 7					
D-8 CFM 8"Ø	48" (3)-3/4" SLOT, 8" OVAL	8"Ø	0 - 175	2 , 4 , 5 , 6 , 7 , 8					
D-9 CFM 12"Ø	48" (3)-3/4" SLOT, 12" OVAL	12"Ø	0 - 240	2 , 4 , 5 , 6 , 7 , 8					
D-10 CFM 12"Ø	72" (3)-3/4" SLOT, 10" OVAL	10"Ø	0 - 275	2,4,5,6,7,8					
D-11 CFM 12"Ø	72" (3)-3/4" SLOT, 12" OVAL	12"Ø	250 - 360	2 , 4 , 5 , 6 , 7 , 8					
D-12 CFM 8"Ø	24X24 MODULE 8"Ø NECK	8"Ø"	0 - 200	2,4,5,6,7,9					
D-13 CFM 10"Ø	24X24 MODULE 10"Ø NECK	10"Ø"	100 - 400	2,4,5,6,7,9					
D-14 CFM 18"Ø	40"Ø	18"Ø	700 - 1075	2 , 4 , 5 , 6 , 7 , 10					

REMARKS:

1. SIZES BASED ON TITUS MODEL TDCA SERIES, HORIZONTAL TO VERTICAL ADJUSTABLE DISCHARGE. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.

- 2. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
- ALL DIFFUSERS LOCATED IN LAY-IN CEILING AREAS SHALL BE BORDER TYPE 3 AND BE MOUNTED IN MANUFACTURER PROVIDED 24"x24" PANELS. ALL DIFFUSERS LOCATED IN HARD CEILING AREAS SHALL BE BORDER TYPE 6 (BEVELED) SURFACE MOUNTED. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES.
- 4. SEE HVAC FLOOR PLANS FOR DIRECTIONAL THROW REQUIREMENTS FOR EACH DIFFUSER.
- 5. ALL OF THE DIFFUSERS SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR DIFFUSER CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
- 6. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
- 7. WHITE FINISH.
- 8. SIZES BASED ON TITUS MODEL ML-38 WITH PLENUM MP-38. DIFFUSERS LOCATED IN LAY-IN CEILING AREAS SHALL BE BORDER TYPE 3 AND HARD CEILING AREAS SHALL BE BORDER TYPE 6. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES. HARD CEILING APPLICATION SHALL BE CLIP TYPE AND NO SCREWS SHALL BE USED ON DIFFUSER. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER AND PRICE.
- 9. SIZES BASED ON TITUS MODEL PCS-DF SERIES. 4-WAY ADJUSTABLE DEFLECTORS (PATTERN CONTROLLER), VERTICAL/HORZONTAL WITH HINGED DROP PERFORATED FACE. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH
- 10. SIZES BASED ON TITUS MODEL TMRA, TYPE 3, ROUND CEILING DIFFUSER, STEEL CONSTRUCTION. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER , PRICE, AND UNITED ENERTECH.

RETI	RETURN & EXHAUST GRILLE SCHEDULE										
SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS							
R-1 6"Ø	8X8	6"Ø	0-80	1,2,3,4,5,6							
R-2 8"Ø	10X10	8"Ø	80-180	1 , 2 , 3 , 4 , 5 , 6							
R-3 10"Ø	12X12	10"Ø	180-300	1 , 2 , 3 , 4 , 5 , 6							
R-4 6"Ø	22X10	6"Ø	0-80	1 , 2 , 3 , 4 , 5 , 6							
R-5 8"Ø	22X10	8"Ø	80-180	1,2,3,4,5,6							
R-6 10"Ø	22X10	10"Ø	180-300	1,2,3,4,5,6							
R-7 12"Ø	22X22	12"Ø	300-500	1,2,3,4,5,6							
R-8 14"Ø	22X22	14"Ø	500-750	1 , 2 , 3 , 4 , 5 , 6							
R-9 22X10	22X10	22X10	500-1100	1 , 2 , 3 , 4 , 5 , 6							
R-10 22X22	22X22	22X22	1100-2000	1 , 2 , 3 , 4 , 5 , 6							
R-11 22X22	22X22	16"Ø	1100-1300	1 , 2 , 3 , 4 , 5 , 6							
R-12 22X22	22X22	18"Ø	1100-1700	1 , 2 , 3 , 4 , 5 , 6							
R-13 10X10	10X10	10X10	0-200	1 , 2 , 3 , 4 , 5 , 6							
R-14 10X6	10X6	10X6	0-180	2 , 4 , 5 , 6 , 8							
R-15 12X6	12X6	12X6	0-200	2,4,5,6,7							
R-16 36X24	36X24	36X24	0-2500	2 , 4 , 5 , 6 , 8							
R-17 18X14	18X14	18X14	0-1000	2 , 4 , 5 , 6 , 8							
R-18 12X12	12X12	12X12	0-500	2 , 4 , 5 , 6 , 8							
R-19 8X8	8X8	8X8	0-400	2 , 4 , 5 , 6 , 7							
R-20 12X8	12X8	12X8	0-160	2,4,5,6,8							
REMARKS:											

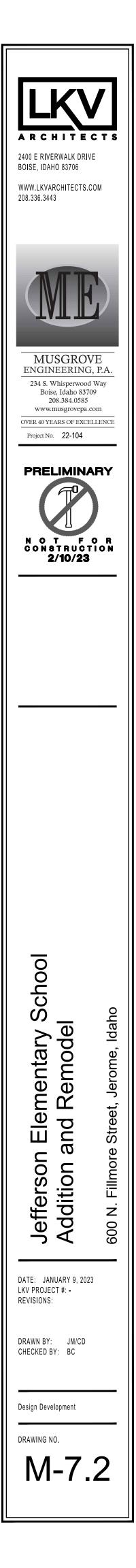
1. SIZES BASED ON TITUS MODEL 50F, ALUMINUM EGGCRATE RETURN GRILLE, 1/2" x 1/2" x 1" SPACING (SINGLE CORE). PROVIDE SQUARE TO ROUND TRANSITION (WHERE ROUND RUN-OUT INDICATED). APPROVED ALTERNATE MANUFACTURERS INCLUDE, ANEMOSTAT, CARNES, PRICE, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, J&J REGISTER, AND UNITED ENERTECH.

2. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.

3. ALL GRILLES LOCATED IN LAY-IN CEILING AREAS SHALL HAVE BORDER #3, UNLESS OTHERWISE INDICATED. ALL GRILLES LOCATED IN HARD CEILING AREAS SHALL HAVE BORDER #1, UNLESS OTHERWISE INDICATED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES. SHEET METAL DUCTWORK VISIBLE BEHIND GRILLE SHALL BE PAINTED FLAT BLACK.

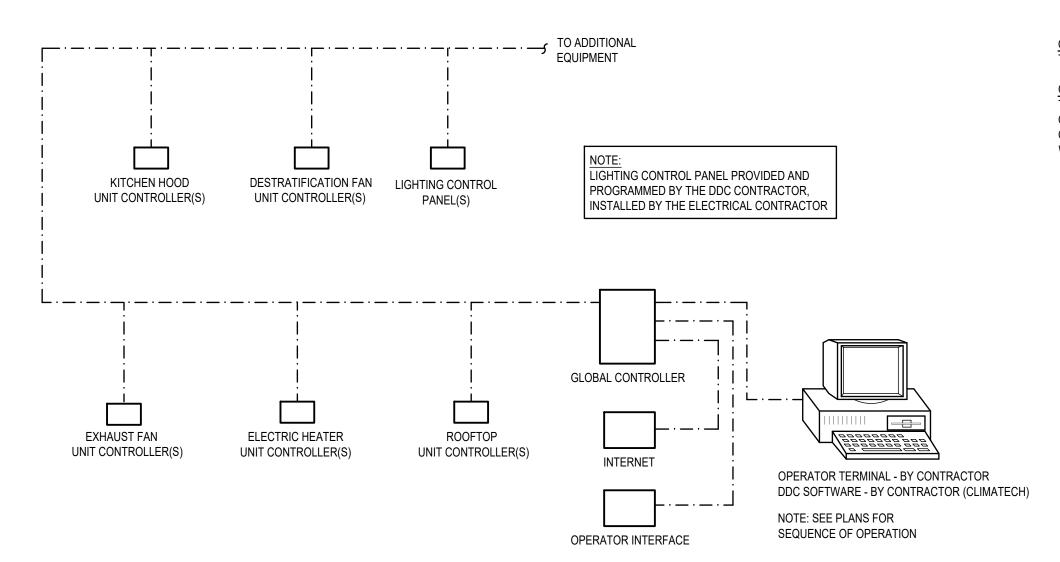
4. ALL OF THE GRILLES SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR GRILLE CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.

- 5. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
- 6. WHITE FINISH.
- 7. LOW WALL GRILLE SIZES BASED ON TITUS MODEL 33R, HEAVY DUTY STEEL, 14 GAUGE BLADES, 1/2" SPACING, 38° DEFLECTION, ALL-WELDED CONSTRUCTION. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, NAILOR, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.
- 8. HIGH WALL GRILLE SIZES BASED ON TITUS MODEL 355 RL, STEEL BAR GRILLE, FIXED BLADES, 1/2" SPACING, 35° DEFLECTION, ADJUSTABLE OPPOSED BLADE DAMPER. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, NAILOR, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.



CONTRO	OLS LEGEND
SYMBOL	DESCRIPTION
AI	ANALOG INPUT
DI	DIGITAL INPUT
AO	ANALOG OUTPUT
	DIGITAL OUTPUT
-	CONTROL ELEMENT TAG
	3-WAY, 2-WAY CONTROL VALVE
<u>□ /////</u>	PARALLEL BLADE CONTROL DAMPER
	OPPOSED BLADE CONTROL DAMPER
+++++	OPPOSED BLADE CONTROL DAMPER

CONTR	OLS LEGEND	CONTR	OLS LEGEND
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
M	MOTOR	APS	AIRFLOW PROVING SWITCH
<u> </u>		BAS	BUILDING AUTOMATION SYSTEM
·}	THERMOWELL	BCV	BYPASS CONTROL VALVE
0	CURRENT SENSING RELAY	С	CONDENSATE
	CONTROL RELAY	CFL	CONDENSATE FLOAT LEVEL SWITCH
		CHWR	CHILLED WATER RETURN
AS	AIRFLOW MEASURING STATION (EBTRON GOLD SERIES) BY CONTROL CONTRACTOR	CHWS	CHILLED WATER SUPPLY
DX C	DX REFRIGERANT COOLING COIL	CR	CONTROL RELAY
		CSR	CURRENT SENSING RELAY
	CHILLED WATER COOLING COIL	D	DAMPER
H C	HOT WATER HEATING COIL	DA	DAMPER ACTUATOR
HR	HEAT RECOVERY COIL	DDC	DIRECT DIGITAL CONTROLS
C PH		DP	DEW POINT TRANSMITTER
C	HOT WATER PREHEAT COIL	DPT	DAMPER POSITION TRANSMITTER
RHC	HOT WATER REHEAT COIL	FM	FLOW METER (TURBINE STYLE)
		FS	FLOW SWITCH
A V	GAS-FIRED HEAT EXCHANGER	GR	GLYCOL RETURN
	THERMOSTAT	GS	GLYCOL SUPPLY
6	SPACE TEMPERATURE SENSOR	HL	HUMIDITY HIGH LIMIT SWITCH
_		HT	HUMIDITY TRANSMITTER
Θ	SPACE HUMIDITY SENSOR	HWR	HOT WATER RETURN
\bigcirc	SPACE CARBON MONOXIDE SENSOR	HWS	HOT WATER SUPPLY
PT	SPACE PRESSURE TRANSMITTER	LS	LIMIT SWITCH
LE L		PDS	PRESSURE DIFFERENTIAL SWITCH
	- LOW VOLTAGE SIGNAL	PDT	PRESSURE DIFFERENTIAL TRANSMITTER
	LINE VOLTAGE POWER	PS	PRESSURE SWITCH
		PT	PRESSURE TRANSMITTER
NOTES: 1. ALL DATA THAT IS NOTED T	O BE "ADJUSTABLE" ON THE FOLLOWING CONTROL SHEETS	RS	ROTATION SENSOR
	TABLE AND LOCKABLE FROM THE OPERATOR'S WORKSTATION GRAPHICAL USER INTERFACE (GUI).	SV	SOLENOID VALVE
2. GLOBAL CALENDAR SCHED		TT	TEMPERATURE TRANSMITTER
		TV	TEMPERATURE CONTROL VALVE
		WL	WATER LEVEL SWITCH

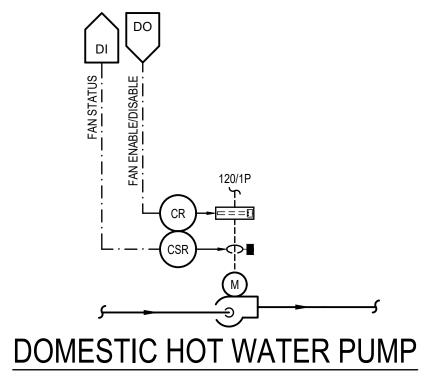


<u>GENERAL</u> THE DOMESTIC HOT WATER RECIRCULATION PUMPS SHALL OPERATE FROM THE DDC SYSTEM.

OPERATION THE DDC SYSTEM SHALL ENABLE THE DOMESTIC HOT WATER RETURN PUMP BASED ON THE THE DDC SYSTEM SHALL ENABLE THE DUMP IS SIGNALED ON AND DOES NOT PROVIDE PRO(OCCUPIED BUILDING SCHEDULE. IF THE PUMP IS SIGNALED ON AND DOES NOT PROVIDE PROOF OF OPERATION, THE CONTROL SYSTEM SHALL GENERATE AN ALARM AT THE CENTRAL OPERATOR'S WORKSTATION.

DOMESTIC HOT WATER PUMP SYSTEM SEQUENCE OF OPERATION

(ALL DOMESTIC HOT WATER RECIRCULATION PUMPS)

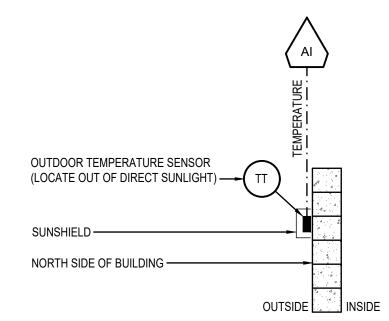


CONTROL SCHEMATIC

(ALL DOMESTIC HOT WATER RECIRCULATION PUMPS)

<u>GENERAL</u>: ONE OUTSIDE AIR TEMPERATURE SENSOR SHALL BE INSTALLED ON THE NORTH SIDE OF THE BUILDING TO PROVIDE A CONTINUOUS READING OF THE OUTSIDE AIR TEMPERATURE.

OUTSIDE AIR TEMPERATURE SEQUENCE OF OPERATION



OUTSIDE AIR TEMPERATURE CONTROL SCHEMATIC

THE ELECTRIC HEATER SYSTEM SHALL CONSIST OF A WALL MOUNTED ELECTRIC HEATER, A SUPPLY FAN, AND A SPACE TEMPERATURE SENSOR. THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE SYSTEM.

THE INDOOR TEMPERATURE SENSOR SHALL SIGNAL THE DDC CONTROLLER ITS TEMPERATURE AND THE TEMPERATURE OF THE HEATING SET POINT.

ALL PARAMETERS SHALL BE REMOTELY ADJUSTABLE FROM THE BUILDING AUTOMATION SYSTEM.

HEATING MODE OF OPERATION: THE HEATING MODE OF OPERATION SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE DECREASES BELOW THE SPACE TEMPERATURE HEATING SET POINT

WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

- 1. SEND AN ENABLE COMMAND TO THE SUPPLY FAN. 2. SEND AN ENABLE COMMAND TO THE ELECTRIC HEATER.
- a. VALIDATE THE RUNNING STATUS USING SPACE TEMPERATURE. 1) IF THE SPACE TEMPERATURE FALLS BELOW 50°F (ADJUSTABLE) FOR A PERIOD OF 5 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE HEATING MODE OF OPERATION SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXIST:

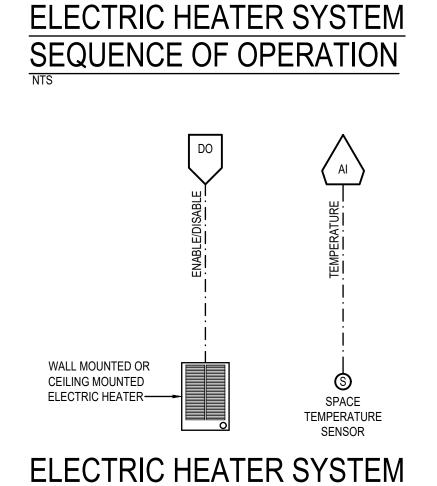
1. THE SPACE TEMPERATURE INCREASES 2°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE HEATING SET POINT.

WHEN ONE OF THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE ELECTRIC HEATER.

a. VALIDATE THE RUNNING STATUS USING SPACE TEMPERATURE. 1) IF THE SPACE TEMPERATURE INCREASES ABOVE 85°F (ADJUSTABLE) FOR A PERIOD OF 5 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION. 2. SEND A DISABLE COMMAND TO THE SUPPLY FAN.

THE SPACE TEMPERATURE HEATING SET POINT SHALL BE 60°F.



CONTROL SCHEMATIC

THE VESTIBULE ELECTRIC HEATER SHALL CONSIST OF AN ELECTRIC HEATING ELEMENT, A SUPPLY FAN, AND A SPACE TEMPERATURE SENSOR. THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE SYSTEM.

THE TEMPERATURE SENSOR SHALL SIGNAL THE DDC CONTROLLER ITS TEMPERATURE AND THE TEMPERATURE OF THE SPACE HEATING SET POINT.

ALL PARAMETERS SHALL BE REMOTELY ADJUSTABLE FROM THE BUILDING AUTOMATION SYSTEM.

THE ELECTRIC HEATER SHALL BE ENABLED WHENEVER BOTH OF THE FOLLOWING CONDITIONS EXISTS:

- 1. THE OUTSIDE AIR TEMPERATURE DECREASES TO THE ELECTRIC HEATER OUTSIDE AIR TEMPERATURE ENABLE SET
- POINT. 2. THE SPACE TEMPERATURE DECREASES 1°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE HEATING SET POINT.
- WHEN THE ABOVE CONDITIONS ARE MET, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:
- 1. SEND AN ENABLE COMMAND TO THE SUPPLY FAN.
- 2. SEND AN ENABLE COMMAND TO THE ELECTRIC HEATER. a. VALIDATE THE RUNNING STATUS USING SPACE TEMPERATURE.

1) IF THE SPACE TEMPERATURE FALLS BELOW 50°F (ADJUSTABLE) FOR A PERIOD OF 5 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE ELECTRIC HEATER SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXISTS:

- 1. THE OUTSIDE AIR TEMPERATURE INCREASES ABOVE THE ELECTRIC HEATER OUTSIDE AIR TEMPERATURE ENABLE SET
- POINT. 2. THE SPACE TEMPERATURE INCREASES 1°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE HEATING SET POINT.

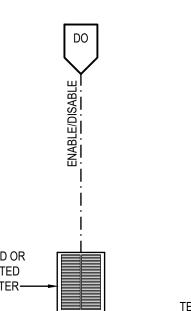
WHEN ONE OF THE ABOVE CONDITIONS IS MET, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

- 1. SEND A DISABLE COMMAND TO THE ELECTRIC HEATER.
- a. VALIDATE THE RUNNING STATUS USING SPACE TEMPERATURE. 1) IF THE SPACE TEMPERATURE INCREASES ABOVE 85°F (ADJUSTABLE) FOR A PERIOD OF 5 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
- 2. SEND A DISABLE COMMAND TO THE SUPPLY FAN.

THE ELECTRIC HEATER OUTSIDE AIR TEMPERATURE ENABLE SET POINT SHALL BE SET AT 45°F. THE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 60°F (ADJUSTABLE).

1. IF THE SPACE TEMPERATURE DROPS TO 35°F (ADJUSTABLE) FOR A PERIOD OF 120 CONSECUTIVE SECONDS (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

VESTIBULE ELECTRIC HEATER SYSTEM SEQUENCE OF OPERATION (EH-A1, EH-A2, EH-B1, EH-B2, EH-C1, EH-D1, EH-D2, EH-E1, & EH-F1)



WALL MOUNTED OR CEILING MOUNTED

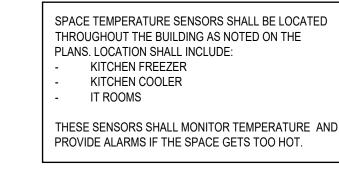
SPACE TEMPERATURE SENSOR

ELECTRIC HEATER

VESTIBULE ELECTRIC WALL HEATER SYSTEM CONTROL SCHEMATIC (EH-A1, EH-A2, EH-B1, EH-B2, EH-C1, EH-D1, EH-D2, EH-E1, & EH-F1)

GENERAL SPACE TEMPERATURE SENSORS





ARCHITECTS 2400 E RIVERWALK DRIVE BOISE, IDAHO 83706 WWW.LKVARCHITECTS.COM 208.336.3443 MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, Idaho 83709 208.384.0585 www.musgrovepa.com OVER 40 YEARS OF EXCELLENCE Project No. 22-104 PRELIMINARY NOTFOR CONSTRUCTION 2/10/23 School mentary S Remodel Q Ele and efferson **Addition** Ż 600 \triangleleft Š DATE: JANUARY 9, 2023 LKV PROJECT #: -REVISIONS: DRAWN BY: JM/CD CHECKED BY: BC Design Development DRAWING NO. M-8.1

THE SUPPLY FAN SHALL START AND STOP ON THE MASTER WEEKLY AND HOLIDAY SCHEDULE SET AT THE OPERATOR'S WORKSTATION.

ALL PARAMETERS SHALL BE REMOTELY ADJUSTABLE FROM THE BUILDING AUTOMATION SYSTEM.

CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE UNIT.

MORNING WARM-UP / COOLDOWN MORNING WARM-UP / COOLDOWN SHALL BE CONTROLLED BY AN OPTIMUM START / STOP MODE PROVIDED BY THE DDC CONTROLLER THAT AIDS IN THE REDUCTION OF ENERGY COSTS DURING A BUILDING'S TRANSITION FROM UNOCCUPIED TO OCCUPIED OR OCCUPIED TO UNOCCUPIED. THIS SCENERIO IS ACCOMPLISHED BY TURNING ON THE PRE-HEATING / PRE-COOLING AS LATE AS POSSIBLE TO REACH COMFORT LEVELS PRIOR TO OCCUPANCY AND TURNING OFF THE HEATING / COOLING AS EARLY AS POSSIBLE WHILE STILL MAINTAINING OCCUPIED ZONE COMFORT UNTIL THE ZONE IS VACANT.

THE DDC CONTROLLER OPTIMUM START / STOP MODE SHALL CONTINUOUSLY MONITOR, CALCULATE AND ADJUST THE FOLLOWING VARIABLES IN ORDER TO DETERMINE THE OPTIMAL START / STOP TIMES:

- 1. OUTSIDE AIR TEMPERATURE.
- 2. OPTIMUM ECONOMIZER POSITION (COOLDOWN).
- 3. RATE OF WARM-UP / COOL-DOWN IN EACH ZONE AFTER EQUIPMENT START-UP. 4. TEMPERATURE DIFFERENCE BETWEEN THE ZONE TEMPERATURE AND THE HEATING / COOLING SET
- POINTS.
- 5. AMOUNT OF TIME REQUIRED TO RAISE OR LOWER THE ZONE TEMPERATURE 1°F. 6. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING THE WARM-UP MODE.

WHEN THE UNIT IS SCHEDULED INTO THE OCCUPIED MODE THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

- 1. SEND AN ENABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
- a. THE DAMPERS SHALL MODULATE TO PROVIDE THE MINIMUM AMOUNT OF OUTSIDE AIRFLOW (AS INDICATED IN THE ROOFTOP UNIT SCHEDULE).
- b. VALIDATE THE POSITION THROUGH THE DAMPER POSITION TRANSMITTER. 1) IF THE DAMPERS FAILS TO PROVIDE THE MINIMUM AMOUNT OF OUTSIDE AIR, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
- 2. SEND AN ENABLE COMMAND TO THE SUPPLY FAN. a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
 - 1) IF THE FAN FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE OCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 75°F (ADJUSTABLE). THE OCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 70°F (ADJUSTABLE).

WHEN THE UNIT IS SCHEDULED INTO THE UNOCCUPIED MODE THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

- 1. SEND A DISABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
- a. THE DAMPERS SHALL MODULATE TO PROVIDE 100% RETURN AIR.
- b. VALIDATE THE POSITION THROUGH THE DAMPER POSITION TRANSMITTER. 1) IF THE DAMPERS FAIL TO PROVIDE 100% RETURN AIR, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

2. SEND A DISABLE COMMAND TO THE SUPPLY FAN.

a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY. 1) IF THE SUPPLY FAN FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

UNOCCUPIED SPACE TEMPERATURE SET POINTS.

COOLING MODE OF OPERATION (DRY BULB ECONOMIZER) FOLLOWING CONDITIONS EXIST:

1. THE SPACE TEMPERATURE INCREASES ABOVE THE SPACE TEMPERATURE COOLING SET POINT. 2. THE OUTSIDE AIR TEMPERATURE IS 2°F (ADJUSTABLE) BELOW THE RETURN AIR TEMPERATURE.

WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS. a. THE DAMPERS SHALL MODULATE UP TO 100% OUTSIDE AIR TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT.

COOLING MODE OF OPERATION (DX COOLING): EXIST:

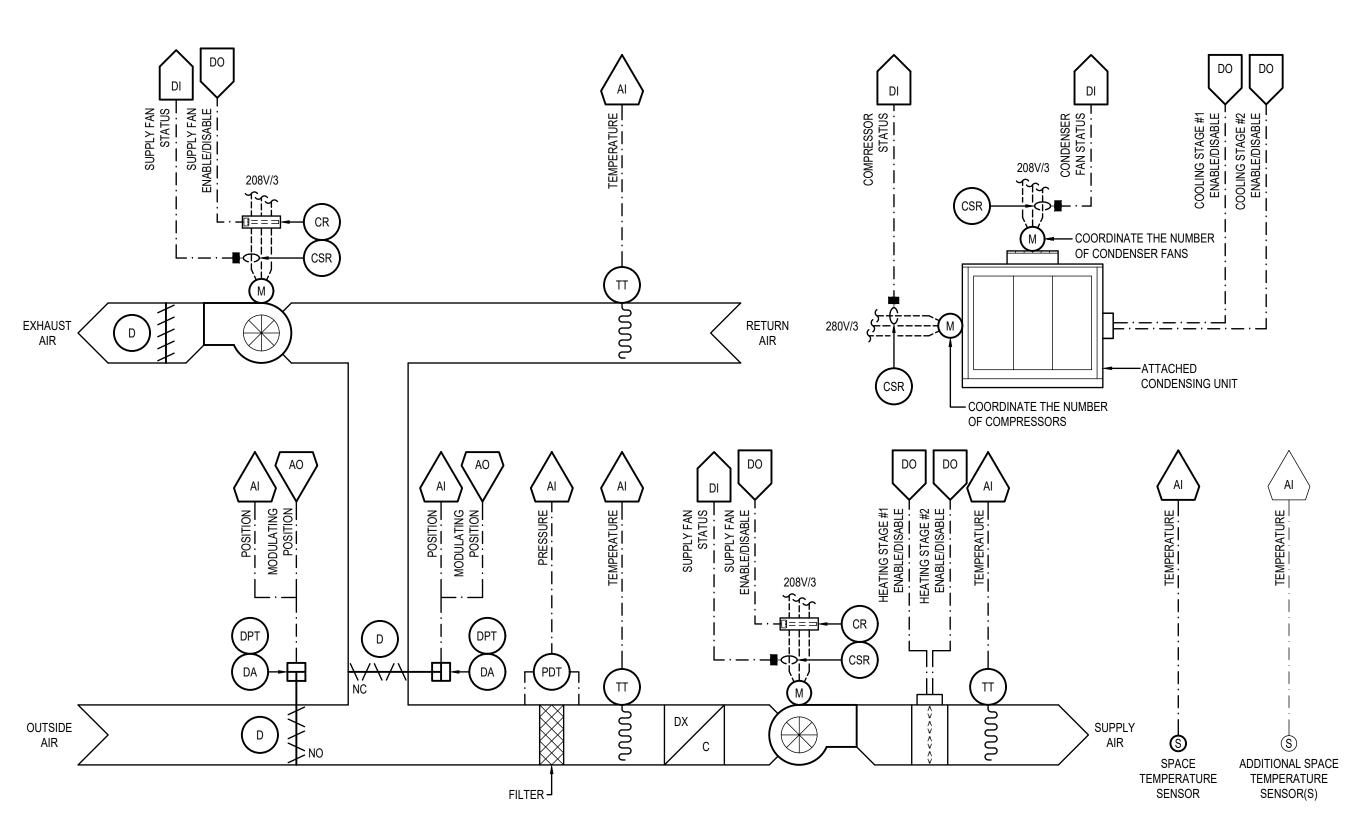
- SET POINT.
- 1. THE SPACE TEMPERATURE INCREASES 1°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE COOLING 2. THE OUTSIDE AIR / RETURN AIR DAMPERS ARE POSITIONED AT EITHER THEIR MINIMUM OR MAXIMUM
- OUTSIDE AIR SETTINGS.
- WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:
- 1. SEND AN ENABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS). a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE DECREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.

- 1) IF A TEMPERATURE DECREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION. b. THE UNIT'S CONTROLLER SHALL STAGE THE COMPRESSORS TO MAINTAIN THE SPACE
- TEMPERATURE COOLING SET POINT.
- THE COOLING MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:
- 1. THE SPACE TEMPERATURE DECREASES 1°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE COOLING SET POINT FOR A PERIOD OF 30 CONSECUTIVE SECONDS (ADJUSTABLE).
- WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:
- 1. SEND A DISABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS) a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE INCREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE. 1) IF A TEMPERATURE INCREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE
- MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
- HEATING MODE OF OPERATION (GAS-FIRED): THE HEATING MODE OF OPERATION (GAS-FIRED) SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION

EXISTS:

SET POINT.

PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) CONTROL SEQUENCE OF OPERATION



PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) CONTROL SYSTEM SCHEMATIC

- THE SUPPLY FAN(S) SHALL CYCLE W/ THE HEATING AND COOLING MODES OF OPERATION TO MAINTAIN THE
- THE UNOCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 85°F (ADJUSTABLE). THE UNOCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 55°F (ADJUSTABLE).
- THE DRY BULB ECONOMIZER COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER ALL OF THE
- THE DX COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER ALL THE FOLLOWING CONDITIONS

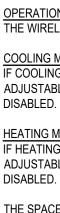
- 1. THE SPACE TEMPERATURE DECREASES 1°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE HEATING
- WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

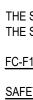
- 1. SEND AN ENABLE COMMAND TO STAGE #1 (LOW FIRE) OF THE GAS-FIRED HEATING SYSTEM: a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE INCREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE. 1) IF A TEMPERATURE INCREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE
 - MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
- IF THE SPACE TEMPERATURE DECREASES 2°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE HEATING SET POINT, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:
- 1. SEND AN ENABLE COMMAND TO STAGE #2 (HIGH FIRE) OF THE GAS-FIRED HEATING SYSTEM: a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE INCREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
 - 1) IF A TEMPERATURE INCREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
- THE SPACE TEMPERATURE HEATING MODE OF OPERATION (GAS-FIRED) SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:
- 1. THE SPACE TEMPERATURE INCREASES 1°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE HEATING SET POINT.
- WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:
- 1. SEND A DISABLE COMMAND TO THE GAS-FIRED HEATING SYSTEM. a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE DECREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE. 1) IF A TEMPERATURE DECREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S

WORKSTATION.

- THE EXHAUST SYSTEM SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITIONS EXIST:
- 1. THE SUPPLY FAN IS ENABLED. 2. THE ECONOMIZER DAMPER END SWITCH REACHES 50% OPEN (ADJUSTABLE).
- WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL ENABLE THE FOLLOWING:
- 1. SEND AN ENABLE COMMAND TO THE EXHAUST FAN. a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY. 1) IF THE FAN FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S
- WORKSTATION.
- THE EXHAUST SYSTEM SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXISTS:
- 1. THE SUPPLY FAN IS OFF. 2. THE ECONOMIZER DAMPER END SWITCH DROPS BELOW 50% OPEN (ADJUSTABLE).
- WHEN ONE OF THE ABOVE CONDITIONS IS MET THE DDC CONTROLLER SHALL ENABLE THE FOLLOWING: 1. SEND A DISABLE COMMAND TO THE EXHAUST FAN.
 - a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY. 1) IF THE FAN FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

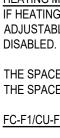










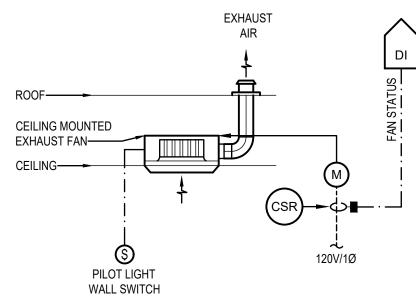


THE GENERAL EXHAUST FAN SYSTEM SHALL CONSIST OF A CEILING-MOUNTED EXHAUST FAN, AND A PILOT LIGHT WALL SWITCH. THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE.

THE EXHAUST FAN SHALL BE CONTROLLED THROUGH A WALL SWITCH.

THE DDC CONTROLLER SHALL MONITOR THE STATUS OF THE EXHAUST FAN. IF THE FAN IS ON DURING NORMALLY UNOCCUPIED HOURS, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

GENERAL EXHAUST FAN SEQUENCE OF OPERATION (EF-A1, EF-B1, EF-D1, & EF-E1)



GENERAL EXHAUST FAN CONTROL SCHEMATIC (EF-A1, EF-B1, EF-D1, & EF-E1)

THE DUCTLESS SPLIT SYSTEM SHALL CONSIST OF AN INDOOR FAN COIL UNIT, AN OUTDOOR CONDENSING UNIT, AND A MANUFACTURER PROVIDED WIRELESS CONTROLLER.

THE WIRELESS CONTROLLER SHALL CONTROL THE OPERATION OF THE DUCTLESS SPLIT SYSTEM.

COOLING MODE OF OPERATION (FC-A1/CU-A1, FC-C1/CU-C1, FC-E1/CU-E1, & FC-F1/CU-F1): IF COOLING IS REQUIRED, THE WIRED CONTROLLER SHALL ENABLE THE COMPRESSORIZED COOLING SYSTEM TO MAINTAIN THE USER ADJUSTABLE COOLING SPACE SET POINT. IF THE SPACE IS BELOW THE COOLING SET POINT, THE DUCTLESS SPLIT SYSTEM SHALL BE

HEATING MODE OF OPERATION (FC-A1/CU-A1, FC-C1/CU-C1, & FC-E1/CU-E1

IF HEATING IS REQUIRED, THE WIRED CONTROLLER SHALL ENABLE THE COMPRESSORIZED HEATING SYSTEM TO MAINTAIN THE USER ADJUSTABLE HEATING SPACE SET POINT. IF THE SPACE IS ABOVE THE HEATING SET POINT, THE DUCTLESS SPLIT SYSTEM SHALL BE

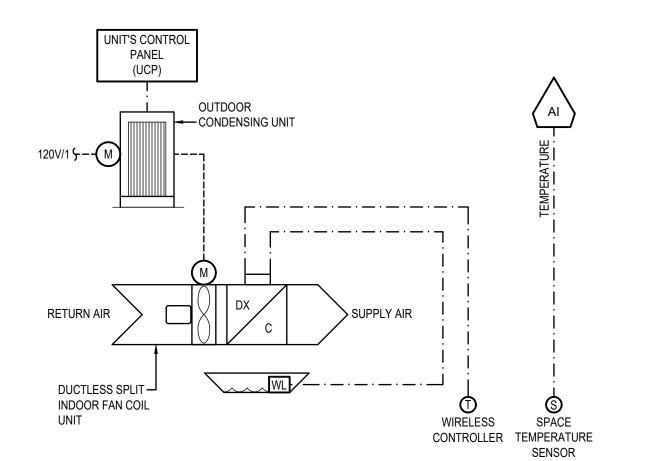
THE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 75°F (ADJUSTABLE). THE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 70°F (ADJUSTABLE).

FC-F1/CU-F1 SHALL BE LOCKED OUT OF HEATING MODE.

1. IF THE SPACE TEMPERATURE INCREASES TO 85°F (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

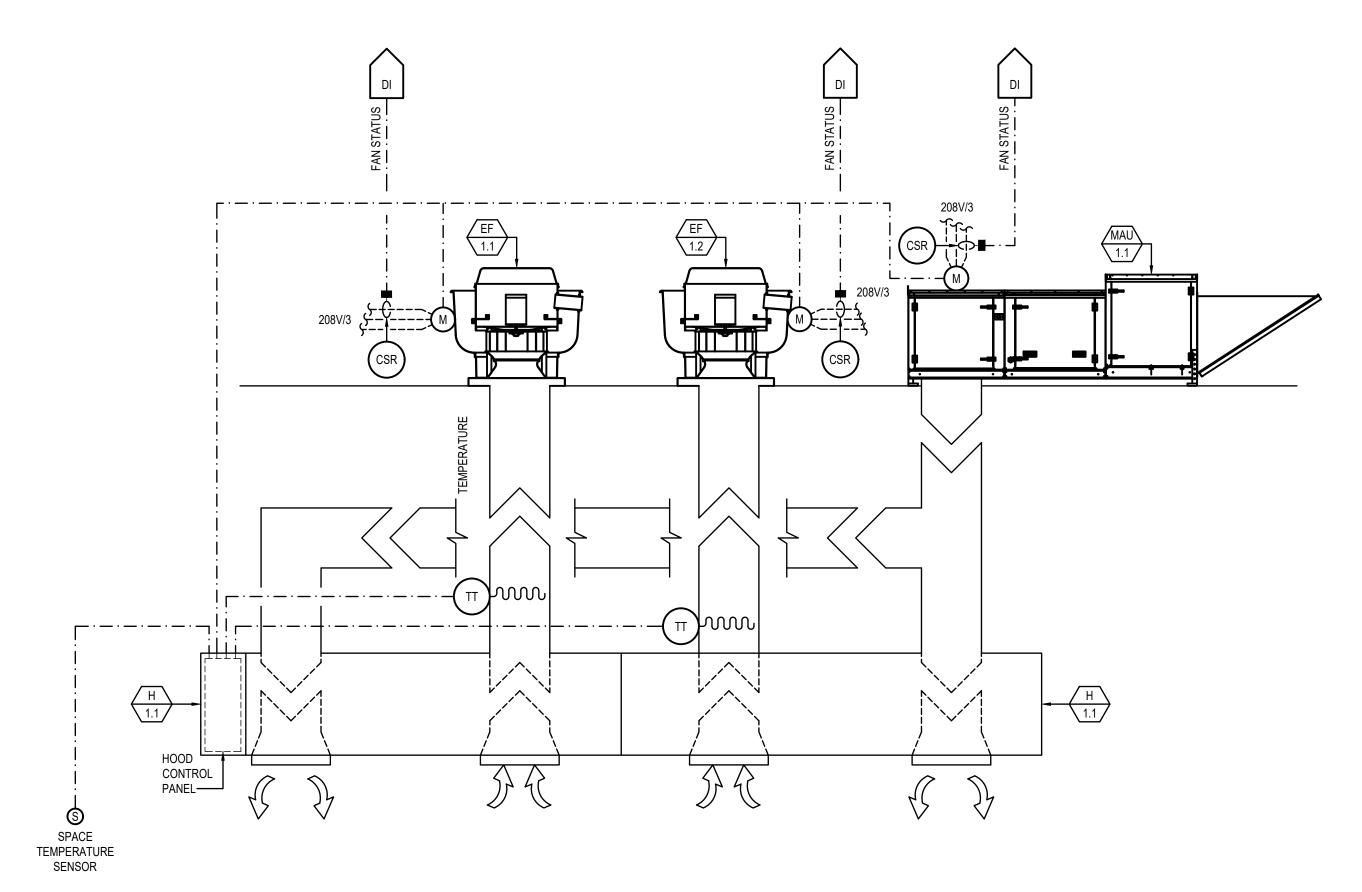
2. THE SYSTEM SHALL BE DISABLED WHENEVER THE WATER LEVEL OVERFLOW SWITCH INDICATES A HIGH CONDENSATE LEVEL.

DUCTLESS SPLIT SYSTEM SEQUENCE OF OPERATION (FC-A1/CU-A1, FC-C1/CU-C1, FC-E1/CU-E1, & FC-F1/CU-F



DUCTLESS SPLIT SYSTEM CONTROL SCHEMATIC (FC-A1/CU-A1, FC-C1/CU-C1, FC-E1/CU-E1, & FC-F1/CU-F1

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Jefferson Elementary School Addition and Remodel	600 N. Fillmore Street, Jerome, Idaho
DATE: JANUARY 9, 2023 LKV PROJECT #: - REVISIONS: DRAWN BY: JM/CD CHECKED BY: BC	
Design Development DRAWING NO. M-8.2	2



KITCHEN HOOD MAKE-UP AIR / EXHAUST SYSTEM CONTROL SCHEMATIC (MAU-1.1, EF-1.1, & EF-1.2)

THE KITCHEN HOOD EXHAUST SYSTEM SHALL CONSIST OF (2) EXHAUST FANS, A MAKE-UP AIR UNIT FURNISHED W/ A GAS-FIRED HEAT EXCHANGER AND A DISCHARGE DAMPER (OPEN / CLOSE), AND TWO HOODS. THE MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE CONTROL SYSTEM. THE DDC CONTRACTOR SHALL MONITOR POINTS ONLY.

THE SPACE TEMPERATURE SENSOR SHALL SIGNAL THE HOOD CONTROLLER ITS TEMPERATURE.

THE EXHAUST TEMPERATURE SENSOR SHALL SIGNAL THE HOOD CONTROLLER ITS TEMPERATURE. THE HOOD SHALL INCLUDE AUTOMATIC CONTROL OF THE EXHAUST FANS AND MAKEUP AIR UNITS BASED ON A TEMPERATURE DIFFERENTIAL BETWEEN THE SPACE TEMPERATURE SENSOR AND EXHAUST DUCT TEMPERATURE SENSOR. THE HOOD CONTROLLER SHALL BE PROGRAMMED AS A DYNAMIC SYSTEM TO MODULATE THE EXHAUST AND SUPPLY FANS AS REQUIRED TO MAINTAIN THE SET TEMPERATURE DIFFERENTIAL.

THE MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO THE EXHAUST FANS. WHEN THE EXHAUST FANS ARE ENABLED, THE MAKE-UP AIR UNIT SHALL BE ENABLED. WHEN THE EXHAUST FAN IS DISABLED, THE MAKE-UP AIR UNIT SHALL BE DISABLED.

OPERATION: THE KITCHEN HOOD EXHAUST SYSTEM SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE TEMPERATURE IN THE EXHAUST DUCT INCREASES TO THE KITCHEN HOOD EXHAUST SYSTEM ENABLE SET POINT OF 10°F ABOVE THE SPACE TEMPERATURE SET POINT (ADJUSTABLE) FOR A PERIOD OF 10 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN THE ABOVE CONDITION IS MET, THE HOOD CONTROLLER SHALL SEQUENCE THE FOLLOWING:

- 1. SEND AN ENABLE COMMAND TO THE EXHAUST FANS. 2. SEND AN OPEN COMMAND TO THE MAKE-UP AIR UNIT DISCHARGE DAMPER.
- 3. SEND AN ENABLE COMMAND TO THE MAKE-UP AIR UNIT SUPPLY FAN.

THE KITCHEN HOOD EXHAUST SYSTEM SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE TEMPERATURE IN THE EXHAUST DUCT DECREASE BELOW THE KITCHEN HOOD EXHAUST SYSTEM ENABLE SET POINT FOR A PERIOD OF 30 CONSECUTIVE SECONDS (ADJUSTABLE).

- WHEN THE ABOVE CONDITION IS MET, THE HOOD CONTROLLER SHALL SEQUENCE THE FOLLOWING:
- 1. SEND A DISABLE COMMAND TO THE MAKE-UP AIR UNIT SUPPLY FAN. 2. SEND A CLOSE COMMAND TO THE MAKE-UP AIR UNIT DISCHARGE DAMPER.
- 3. SEND A DISABLE COMMAND TO THE EXHAUST FANS.

SUPPLY AIR TEMPERATURE CONTROL HEATING MODE OF OPERATION (GAS-FIRED HEATING SYSTEM) THE SUPPLY AIR TEMPERATURE CONTROL HEATING MODE OF OPERATION (GAS-FIRED HEATING SYSTEM) SHALL BE ENABLED WHENEVER BOTH OF THE FOLLOWING CONDITIONS EXIST:

1. THE MAKE-UP AIR UNIT SUPPLY FAN IS ENABLED. 2. THE SUPPLY AIR TEMPERATURE DECREASES TO THE MINIMUM SUPPLY AIR TEMPERATURE SET POINT OF 60°F (ADJUSTABLE) FOR A PERIOD OF 10 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN THE ABOVE CONDITIONS ARE MET, THE HOOD CONTROLLER SHALL SEQUENCE THE FOLLOWING: 1. SEND AN ENABLE COMMAND TO THE MAKE-UP AIR UNIT DIRECT GAS-FIRED HEATING SYSTEM. a. THE HOOD CONTROLLER SHALL MODULATE THE GAS-FIRED HEATING SYSTEM TO

MAINTAIN THE MINIMUM SUPPLY AIR TEMPERATURE SET POINT.

THE SUPPLY AIR TEMPERATURE CONTROL HEATING MODE OF OPERATION (GAS-FIRED HEATING SYSTEM) SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXISTS:

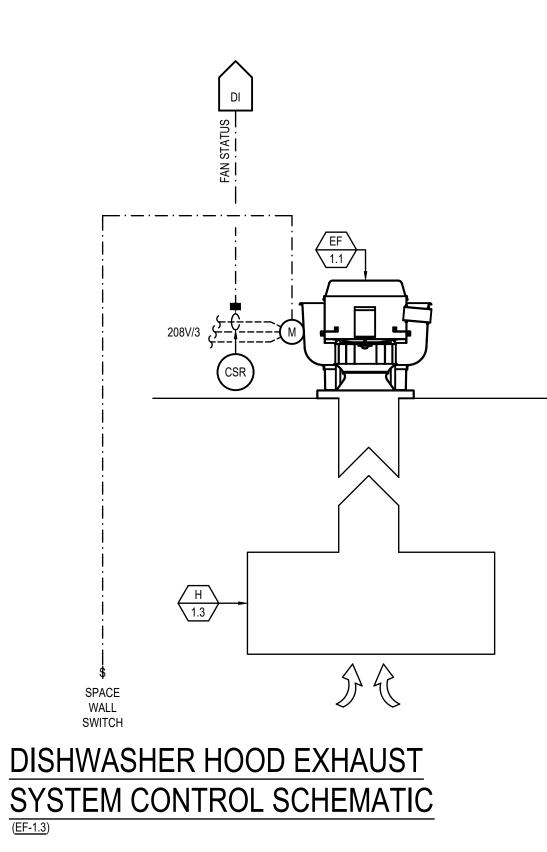
1. THE MAKE-UP AIR UNIT SUPPLY FAN IS DISABLED. 2. THE SUPPLY AIR TEMPERATURE INCREASES ABOVE THE MINIMUM SUPPLY AIR TEMPERATURE SET POINT FOR A PERIOD OF 30 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN ONE OF THE ABOVE CONDITIONS IS MET, THE HOOD CONTROLLER SHALL SEQUENCE THE FOLLOWING:

- 1. SEND A DISABLE COMMAND TO THE MAKE-UP AIR UNIT GAS-FIRED HEATING SYSTEM.
- ADDITIONAL ITEMS THIS SYSTEM SHALL MEET ALL IECC 403.7.5 REQUIREMENTS. 2. THE DDC CONTRACTOR SHALL MONITOR STATUS OF THE EXHAUST FANS AND SUPPLY FAN OF THE MAKEUP AIR UNIT USING CURRENT SENSING RELAYS. IF THE FANS ARE RUNNING DURING UNOCCUPIED HOURS, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

KITCHEN HOOD MAKE-UP AIR / EXHAUST SYSTEM SEQUENCE OF OPERATION (MAU-1.1, EF-1.1, & EF-1.2)





GENERAL: THE DISHWASHER HOOD EXHAUST SYSTEM SHALL CONSIST OF AN EXHAUST FAN AND A WALL SWITCH. THE MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE CONTROL SYSTEM. THE DDC CONTRACTOR SHALL MONITOR POINTS ONLY.

OPERATION: THE DISHWASHER HOOD EXHAUST SYSTEM SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

- 1. THE WALL SWITCH IS ENABLED.
- WHEN THE ABOVE CONDITION IS MET, THE FAN INTERLOCK SHALL SEQUENCE THE FOLLOWING:
- 1. SEND AN ENABLE COMMAND TO THE EXHAUST FAN.

THE DISHWASHER HOOD EXHAUST SYSTEM SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE WALL SWITCH IS DISABLED.

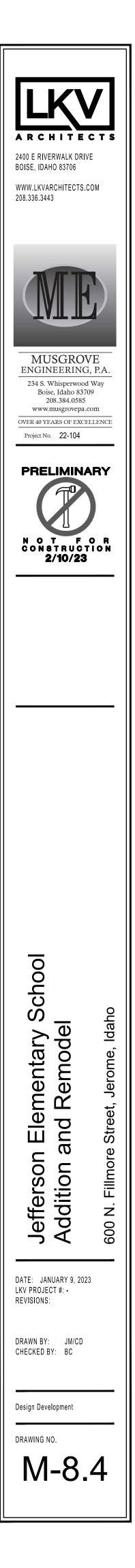
ADDITIONAL ITEMS
1. THE DDC CONTRACTOR SHALL MONITOR STATUS OF THE EXHAUST FAN USING A CURRENT
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1. THE DDC CONTRACTOR SHALL MONITOR STATUS OF THE FAN USING A CURRENT F SENSING RELAY. IF THE FAN IS RUNNING DURING UNOCCUPIED HOURS, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

DISHWASHER HOOD EXHAUST SYSTEM CONTROL SEQUENCE OF OPERATION (EF-1.3)

THE DESTRATIFICATION FAN SHALL CONTINUE TO MODULATE TO MAINTAIN THE ABOVE MENTIONED TEMPERATURE INTERVALS. THE DESTRATIFICATION MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS: 1. THE HIGH SPACE TEMPERATURE IS EQUAL TO OR BELOW THE LOW SPACE TEMPERATURE. WHEN THE ABOVE CONDITION EXISTS THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING 1. SEND A DISABLE COMMAND TO THE DESTRATIFICATION FANS.

THE OVERRIDE SWITCHES SHALL ENERGIZE EACH FAN AT 100% SPEED (ADJUSTABLE) REGARDLESS OF THE CURRENT STATE OF THE FAN. THIS OVERRIDE SHALL LAST FOR (2) HOURS (ADJUSTABLE). AFTERWARDS THE FAN CONTROL SHALL REVERT BACK TO THE ORIGINAL OPERATION.

DESTRATIFICATION FAN SEQUENCE OF OPERATION (DF-1, DF-2, DF-3, DF-4, DF-5, & DF-6)



- AND A WALL-MOUNTED OVERRIDE SWITCH. THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DIGITAL CONTROL PACKAGE. A SEPARATE SYSTEM SHALL BE INSTALLED IN THE GYM AND THE CAFETERIA.

- THE DESTRATIFICATION FAN SYSTEM CONSISTS OF A CEILING MOUNTED FAN, TWO SPACE TEMPERATURE SENSORS,
- THE NEW SPACE TEMPERATURE SENSORS SHALL SIGNAL THE DDC CONTROLLER THEIR TEMPERATURES AND THE

TEMPERATURE OF THE HEATING SET POINT.

DESTRATIFICATION MODE OF OPERATION: THE DESTRATIFICATION FAN SYSTEM SHALL BE ENABLED AND THE FANS SHALL MODULATE WHENEVER THE FOLLOWING

CONDITION EXISTS BASED ON INTERVALS OF TEMPERATURE RISE:

1. THE HIGH SPACE TEMPERATURE RISES ABOVE THE LOW SPACE TEMPERATURE BY:

- a. 0-3°F (ADJUSTABLE) 50% FAN SPEED
- b. 3-6°F (ADJUSTABLE) 75% FAN SPEED c. 6°F+ (ADJUSTABLE) - 100% FAN SPEED

WHEN THE ABOVE CONDITION EXISTS THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING BASED ON INTERVALS

1) IF ANY FAN FAILS TO ENABLE, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S

1) IF ANY FAN FAILS TO DISABLE, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S

0-10VDC

AO

AI

(S) HIGH

SLOW

(CSR)

DESTRATIFICATION FAN CONTROL SCHEMATIC

1. SEND AN ENABLE COMMAND TO THE DESTRATIFICATION FANS.

WORKSTATION.

WORKSTATION.

DESTRATIFICATION

FAN

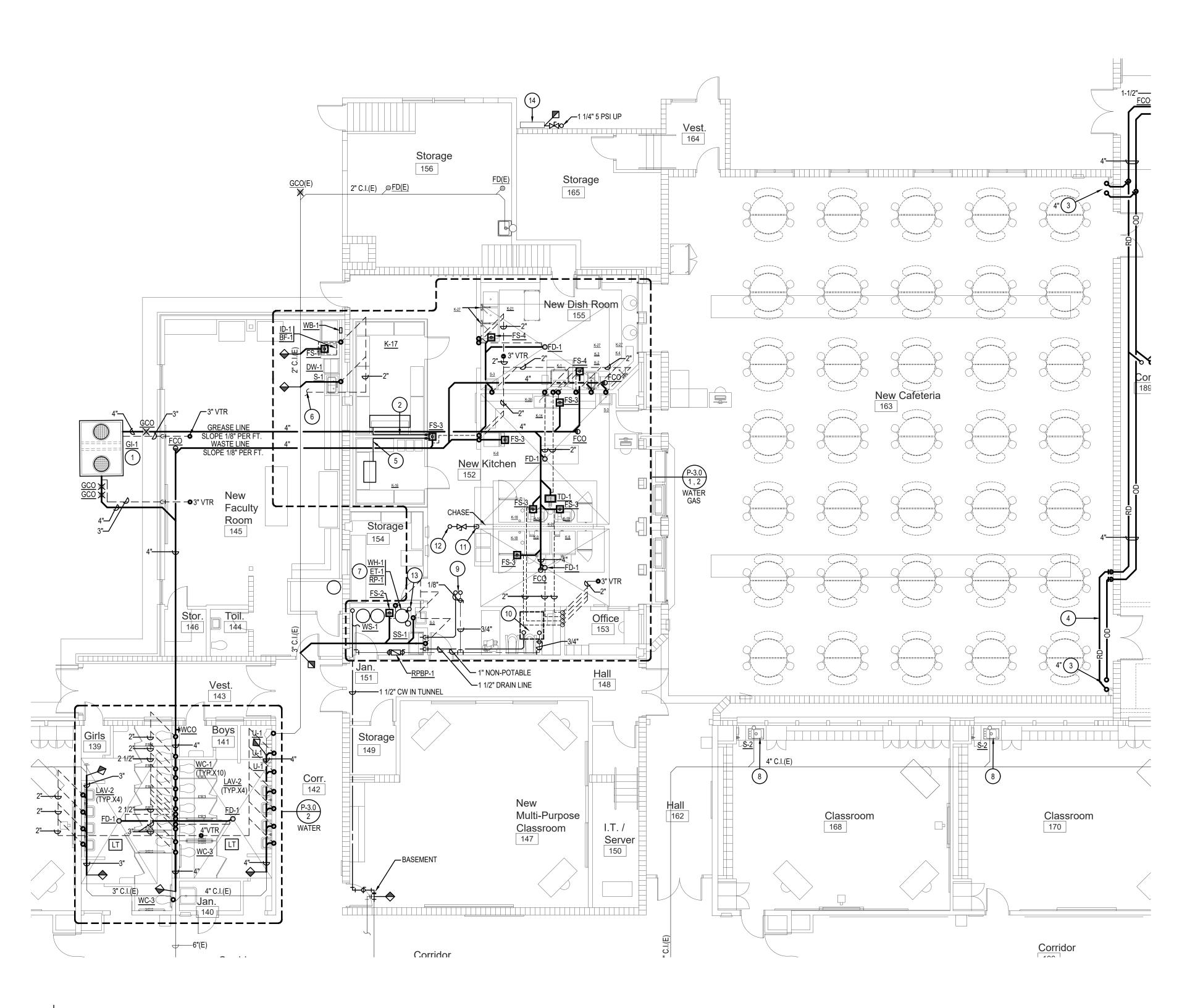
(DF-1, DF-2, DF-3, DF-4, DF-5, & DF-6)

ROOF

a. VALIDATE THE STATUS OF THE FANS THROUGH THE CURRENT SENSING RELAYS.

a. VALIDATE THE STATUS OF THE FANS THROUGH THE CURRENT SENSING RELAYS.

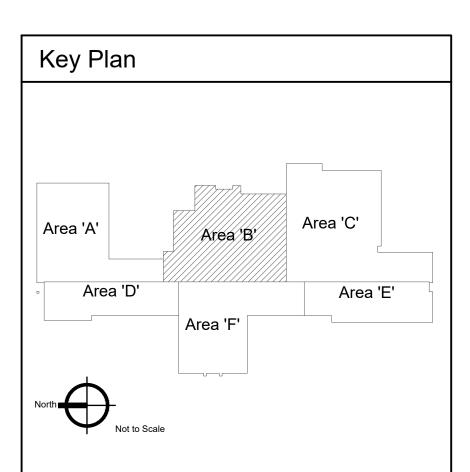
- OF TEMPERATURE RISE:



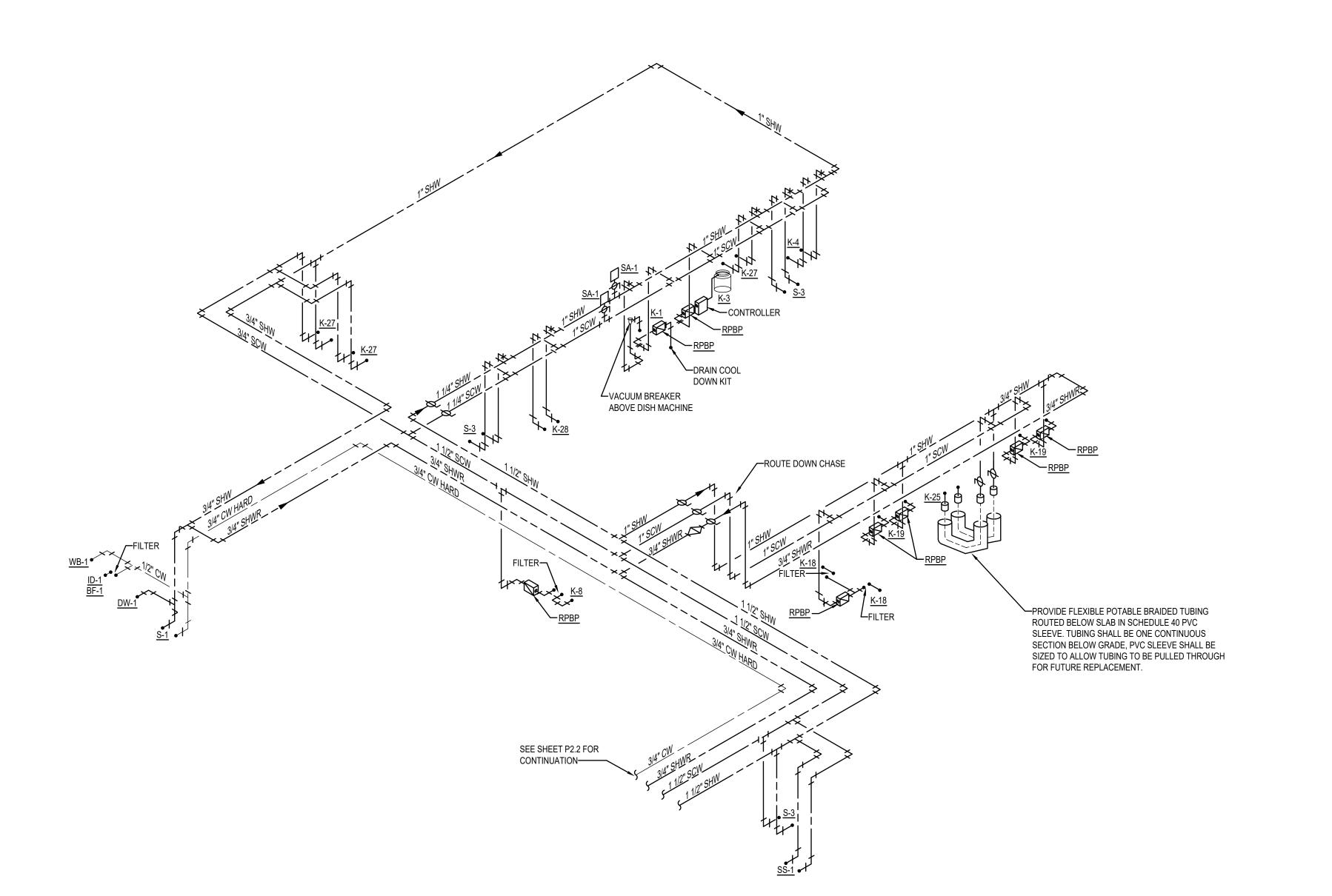
Plumbing New Work Plan - Area 'B' Scale: 1/8" = 1'-0"

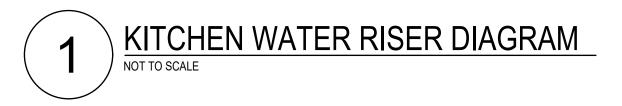
KEYED NOTES:

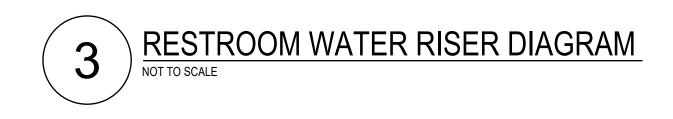
- (#) SYMBOL USED FOR NOTE CALLOUT.
- 1. SEE GREASE INTERCEPTOR DETAIL.
- 2. ROUTE CONDENSATE DRAIN LINE FROM FREEZER EVAPORATIVE COIL TO FLOOR SINK, HEAT TRACE LINE AND WRAP WITH INSULATION. TERMINATE AT FLOOR SINK.
- ROOF DRAINS FROM ABOVE, SEE ROOF PLAN FOR CONTINUATION.
- 4. ROUTE ROOF DRAIN AND OVERFLOW DRAIN HIGH THROUGH EXISTING STRUCTURE.
- 5. ROUTE CONDENSATE DRAIN LINE FROM COOLER EVAPORATIVE COIL TO FLOOR SINK, TERMINATE AT FLOOR SINK.
- 6. CONNECT NEW VENT PIPE TO EXISTING SAME SIZE OR LARGER
- VENT PIPE IN THIS AREA. FIELD VERIFY EXACT CONDITIONS.7. SEE WATER HEATER CONNECTION PIPING DETAIL.
- INSTALL NEW CLASSROOM SINK AT PREVIOUS SINK LOCATION, PROVIDE NEW TRIM AND RE-CONNECT TO EXISTING WASTE/VENT AND WATER PIPING.
- 9. CONNECT NON POTABLE AND DRAIN LINE TO ROOF HYDRANT.
- 10. CONNECT NON POTABLE AND DRAIN LINE TO EVAPORATIVE SECTION OF MAU. SEE DETAIL. SET VALVES AT ACCESSIBLE LOCATION NEAR CEILING.
- 11. FOR CONTINUATION SEE COOK LINE GAS RISER.
- 12. FOR CONTINUATION SEE MECHANICAL ROOF PLAN.
- 13. FOR CONTINUATION SEE MECHANICAL ROOF PLAN AND WATER HEATER DETAIL.
- 14. EXISTING 5 PSI METER SET, CONTACT LOCAL GAS COMPANY FOR ADDITIONAL LOAD CONNECTION OF 2346.0 MBH

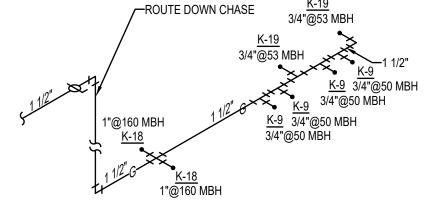


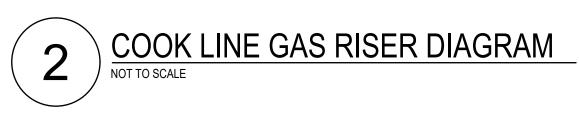
2400 E RIVERWALK DRIVE BOISE, IDAHO 83706 WWW.LKVARCHITECTS.CO 208.336.3443	
COVER 40 YEARS OF EXCELL Project No. 22-104 PRELIMINAL PRELIMINAL PRELIMINAL PRELIMINAL COVER 40 YEARS OF EXCELL Project No. 22-104	P.A. Vay m ENCE
Jefferson Elementary School Addition and Remodel	600 N. Fillmore Street, Jerome, Idaho
DATE: JANUARY 9, 2023 LKV PROJECT #: - REVISIONS:	
DRAWN BY: JM/CD CHECKED BY: BC	
Design Development DRAWING NO. P-2.2	2







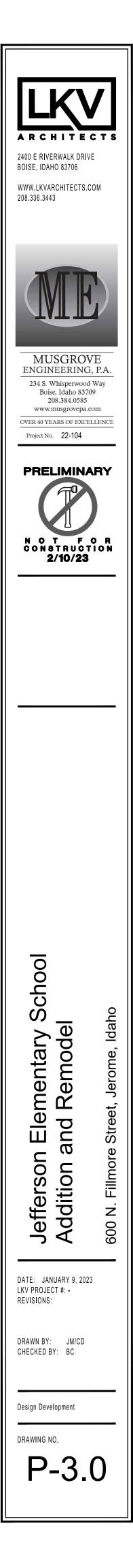




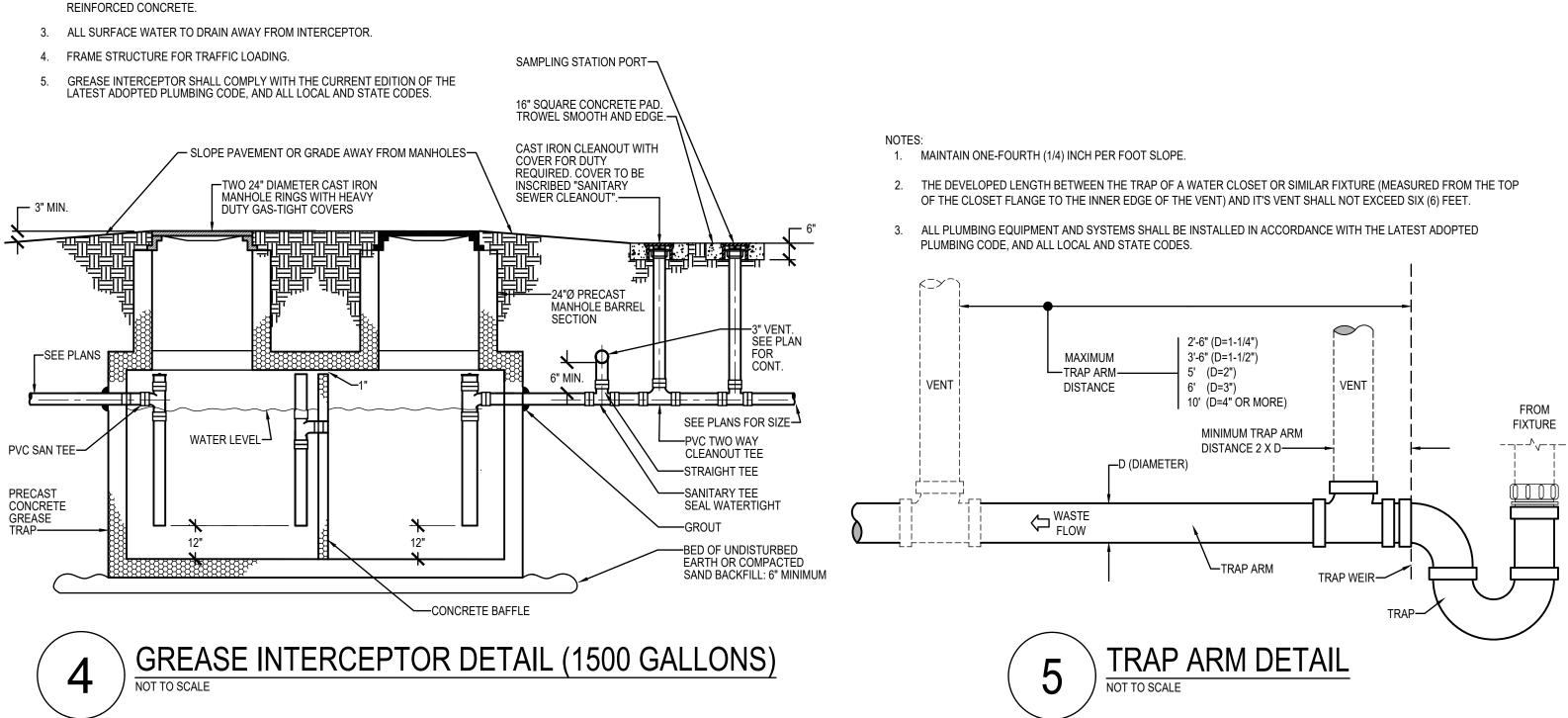
) RESTROOM WATER RISER DIAGRAM

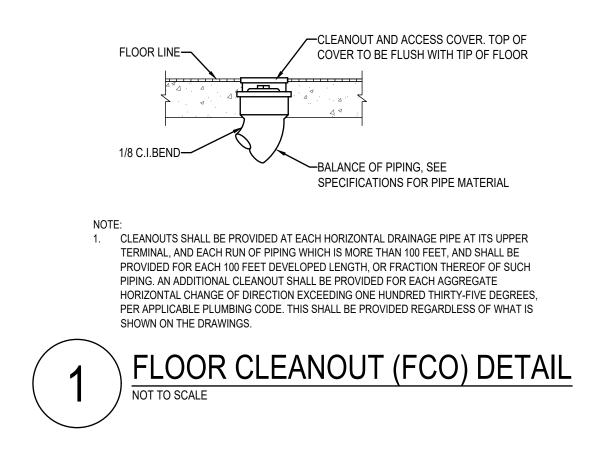
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NOT TO SCALE



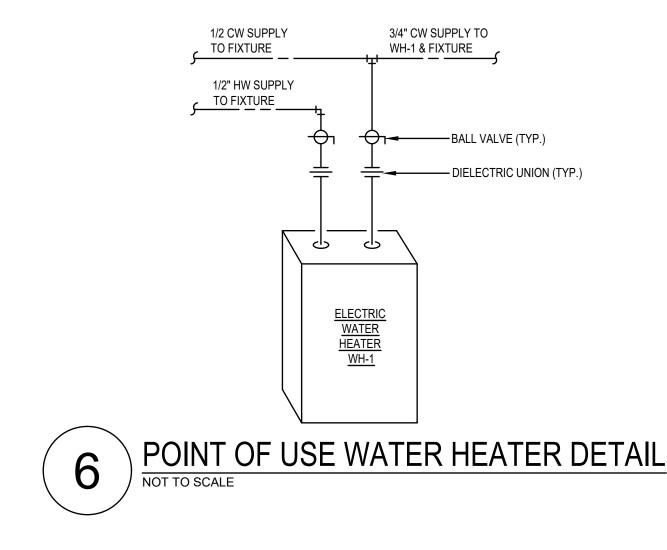


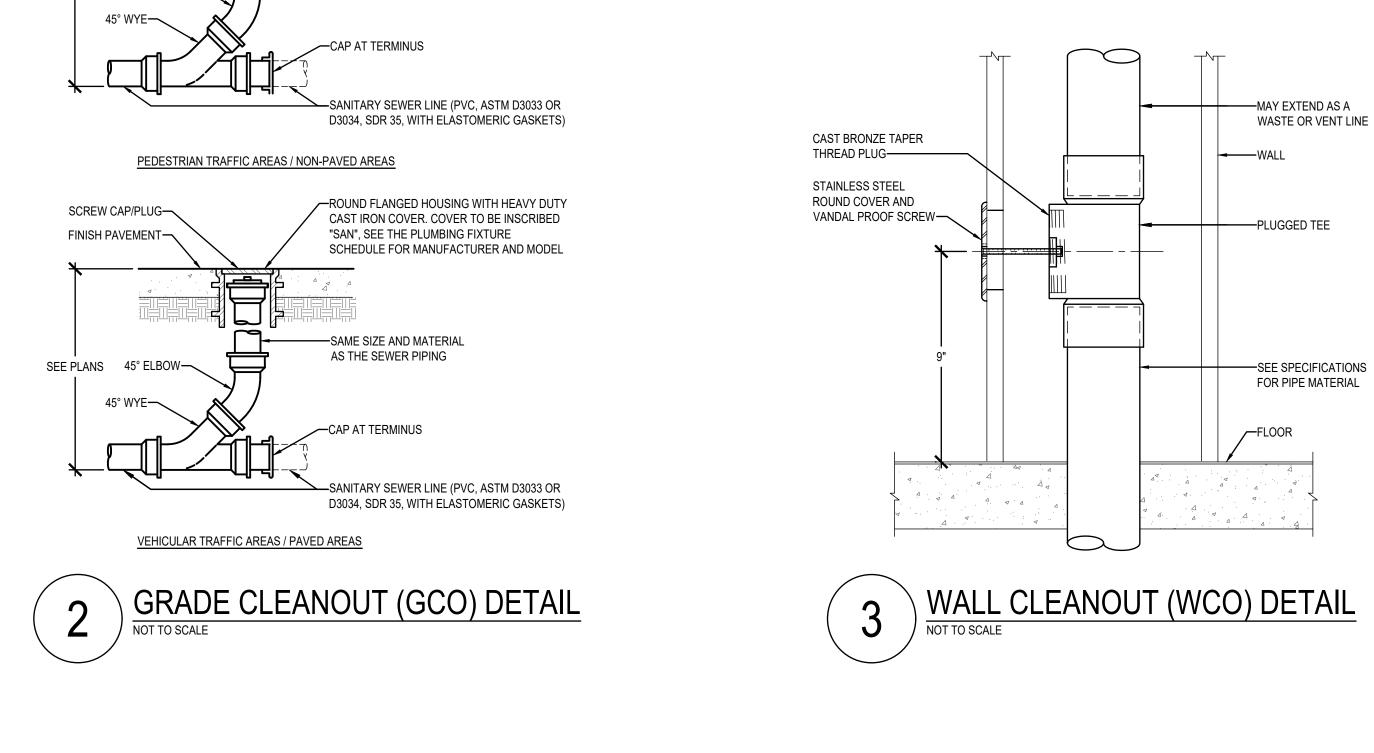
NOTES

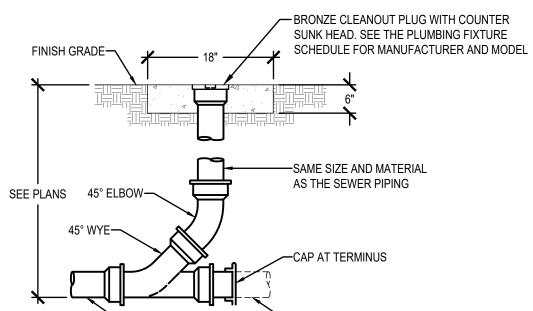
JURISDICTION.

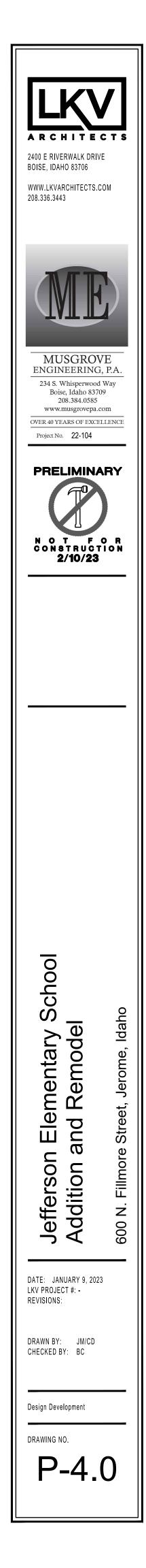
1. ALL DIMENSIONS SHOWN SHALL BE VERIFIED WITH LOCAL AUTHORITY HAVING

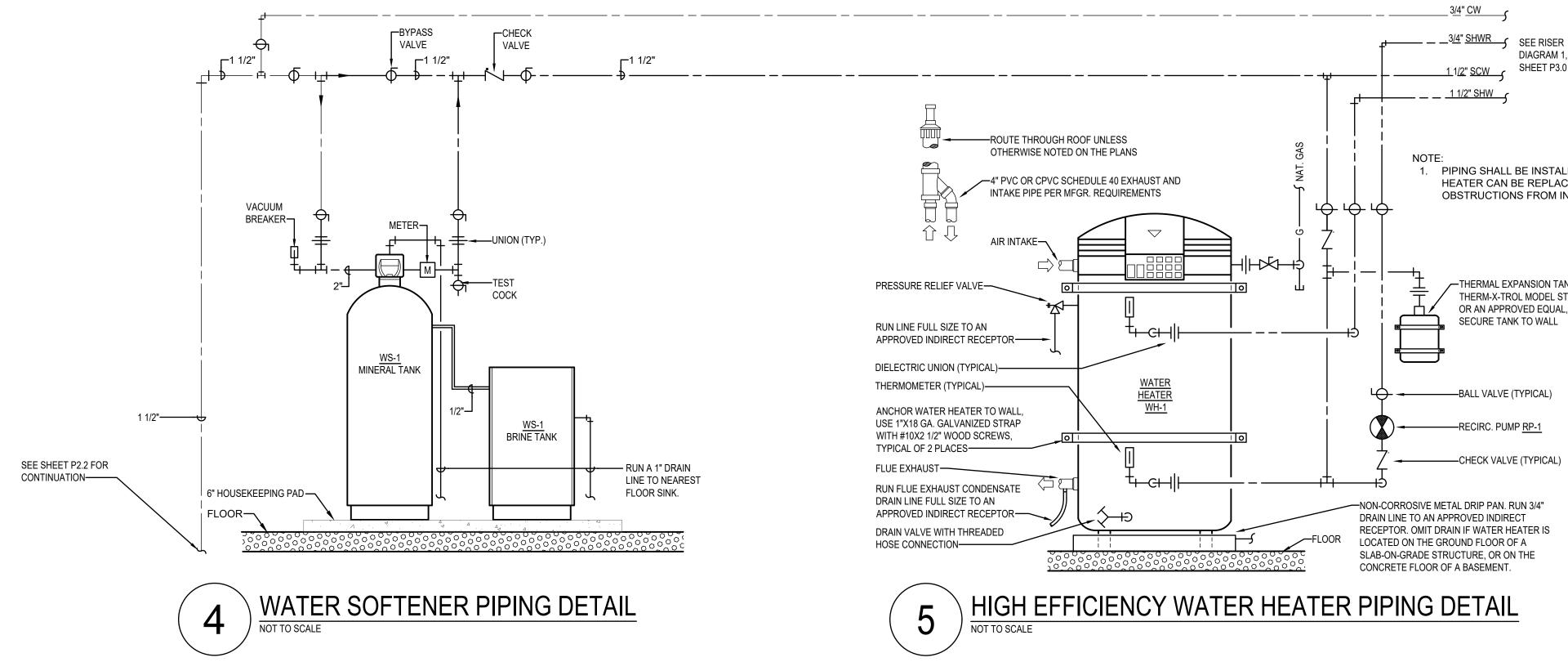
2. INTERCEPTOR EXCEEDING 6'-6" IN DEPTH MUST BE CONSTRUCTED OF

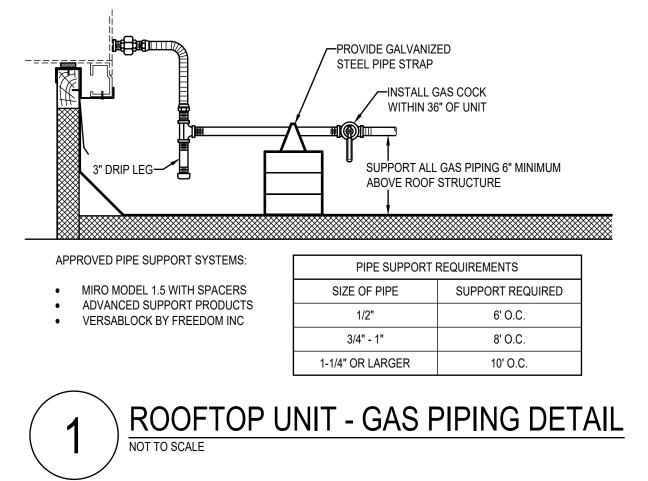








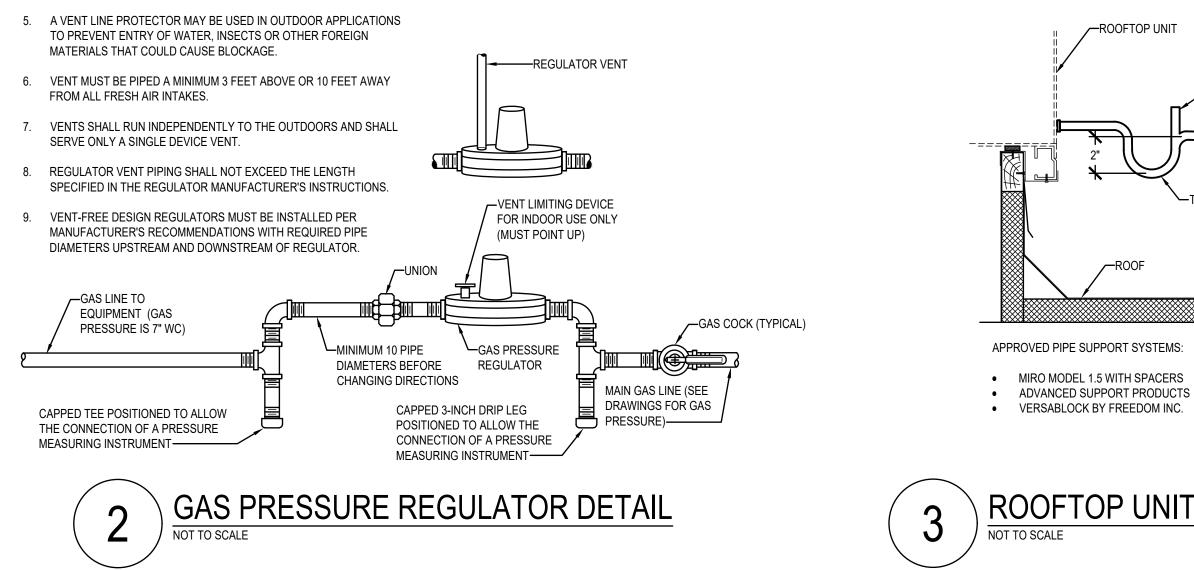




INSTALL SOLID PIPE CONNECTION TO ALL ROOF TOP UNITS WHICH DO NOT HAVE SPRING ISOLATION CURBS. 3. PAINT PIPE WITH RUST RESISTANT PRIMER, RED OR GRAY. SHERWIN WILLIAMS PRO INDUSTRIAL DTM OR

APPROVED EQUAL.

NOTES: 1. INSTALL FLEX CONNECTION AT ALL ROOF TOP UNITS WHICH HAVE SPRING ISOLATION CURBS (36" MAXIMUM).



COMPANY'S REQUIREMENTS.

2. DO NOT REDUCE THE VENT PIPE SIZE FROM THE REGULATOR.

ABOVE POTENTIAL WATER OR SNOW LINES.

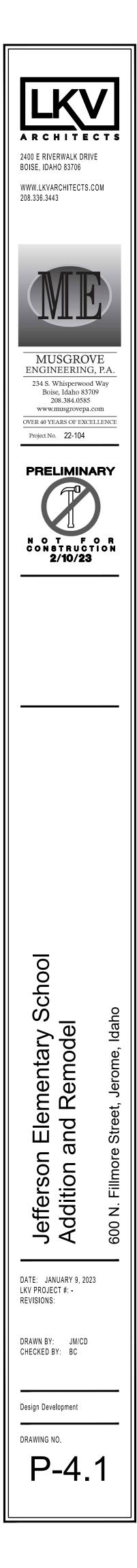
4

3. TO LIMIT THE CONSEQUENCES OF RAIN, SNOW OR DEBRIS GETTING INTO THE VENT, ALWAYS TURN THE OUTLET OF THE VENT DOWN AND

PROVIDE A BUG SCREEN ON THE VENT OUTLET TO DETER INSECTS

FROM NESTING IN THE LINE. NEVER PAINT OVER THE BUG SCREEN.

- NOTES: 1. VENT REGULATORS PER MANUFACTURER'S AND LOCAL GAS



-VACUUM BREAKER TO ATMOSPHERE -PIPE DRAIN FULL SIZE TO THE NEAREST ROOF DRAIN ONLY IF AUTHORITY HAVING JURISDICTION REQUIRES NOTES: 1. PROVIDE RUNNING TRAP WITH AIR VENT AT EACH EQUIPMENT CONNECTION. 2. ALL CONDENSATE DRAIN PIPING ON ROOF AND/OR AT UNIT SHALL BE TYPE L COPPER. PIPE SUPPORT REQUIREMENTS SIZE OF PIPE SUPPORT REQUIRED 6' O.C. 1/2"

3/4" - 1"

1-1/4" OR LARGER

ROOFTOP UNIT - CONDENSATE DRAIN DETAIL

8' O.C.

10' O.C.

DIAGRAM 1, ____<u>1 1/2" SCW</u>SHEET P3.0

1. PIPING SHALL BE INSTALLED SUCH THAT WATER HEATER CAN BE REPLACED WITHOUT ANY OBSTRUCTIONS FROM INSTALLED PIPING.

> -THERMAL EXPANSION TANK. THERM-X-TROL MODEL ST-12 OR AN APPROVED EQUAL, SECURE TANK TO WALL

-RECIRC. PUMP RP-1

			PLL	JMBI	NG F	ΙΧΤυ	IRE SCHEDULE
SYMBOL	FIXTURE DESCRIPTION		CC VENT	NNECTION S	IZE CW	HW	MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS
<u>BF-1</u>	BACK FLOW DEVICE FOR COFFEE MAKERS AND ICE AND WATER DISPENSERS.	WASTE			1/2		WATTS SD-3 DUAL CHECK VALVE
<u>DF-1</u>	DRINKING FOUNTAIN WITH BOTTLE FILLING STATION (INTERIOR DUAL BUBBLERS) (ELECTRIC WATER COOLER) (ADA COMPLIANT) (HIGH/LOW)	1 1/2	1 1/2	1 1/2	1/2	-	MODEL EZSTL8WSVRSK (NON-FILTERED) BI-LEVEL ADA COOLER WITH BOTTLE FILLING STATION FURNISHED WITH FLEXI-GUARD SAFETY BUBBLER. BUBBLER ACTIVATED BY PUSHBAR. BOTTLE FILLER ACTIVATED BY ELECTRONIC SENSOR WITH AUTOMATIC 30-SECOND SHUT-OFF TIMER. 115 VOLT, 5.0 AMPS, 60 HERTZ. PROVIDE WITH JAY R. SMITH 0834 FLOOR MOUNTED SUPPORT CARRIER. OPTION - CANE APRON TO BE INSTALLED ON HIGH COOLER.
<u>DN-1</u>	DOWN SPOUT NOZZLE (CAST IRON)	SEE PLANS					JAY R. SMITH FIGURE NUMBER 1770-NB CAST IRON NOZZLE WITH WALL FLANGE, NICKEL-BRONZE FINISH.
<u>ET-1</u>	EXPANSION TANK				3/4		AMTROL THERM-X-TROL ST-12, OR APPROVED EQUAL, NON-ASME SERIES THERMAL EXPANSION ABSORBER, ANTI-MICROBIAL LINER, AND 5 YEAR WARRANTY.
<u>EYE-1</u>	EMERGENCY EYE WASH (WALL MOUNTED w/ RECOIL HOSE) (USED WITH SERVICE SINK)				1/2	1/2	ACORN SAFETY MODEL S0406-CH12-BFP, WALL MOUNTED WITH DUAL 45° ANGLED HEADS AND RECOIL HOSE, PROVIDE WITH FLIP TOP DUST COVERS, UNIVERSAL EMERGENCY SIGN, DOUBLE CHECK VALVE, STAINLESS STEEL 90° WITH SHEET NIPPLE, AND ACORN MODEL ET71-1-BVS-OTG LEAD-FREE EMERGENCY THERMOSTATIC MIXING VALVE WITH 1/2" NPT INLETS & OUTLET, 4 GPM @ 5 PSID. PROVIDE WITH LOCKABLE INLET BALL VALVES, STANDARD OUTLET TEMPERATURE GAUGE, AND SELECTABLE TEMPERATURE RANGE FROM 60°F TO 95°F.
<u>FD-1</u>	FLOOR DRAIN (PVC BODY) (CONCRETE FLOOR)	2	2	2			SIOUX CHIEF SERIES NUMBER 832-2PNR, POST- CONSTRUCTION LEVELING FLOOR DRAIN, NO-HUB OUTLET, 6-1/2" ROUND, ADJUSTABLE NICKEL BRONZE STRAINER AND TRAP PRIMER PORT. INSTALL TOP OF DRAIN 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
<u>FS-1</u>	FLOOR SINK (6" DEEP) (HALF GRATE, FOOT TRAFFIC RATED)	2	2	2			JAY R. SMITH FIGURE NUMBER 3100Y-12, CAST IRON RECEPTOR, ALUMINUM DOME STRAINER, NICKEL BRONZE GRATE, AND TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
<u>FS-2</u>	FLOOR SINK (10" DEEP) (HALF GRATE, FOOT TRAFFIC RATED)	4	2	4			JAY R. SMITH FIGURE NUMBER 3160Y-12, CAST IRON RECEPTOR, ALUMINUM DOME STRAINER, NICKEL BRONZE GRATE, AND TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
<u>FS-3</u>	FLOOR SINK (6" DEEP) (HALF GRATE, FOOT TRAFFIC RATED) COMMERCIAL KITCHEN, BAR, OR PROCESSING LOCATIONS	2	2	2			JAY R. SMITH FIGURE NUMBER 3002Y-12, STAINLESS STEEL RECEPTOR, DOME STRAINER AND GRATE WITH TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
<u>FS-4</u>	FLOOR SINK (10" DEEP) (HALF GRATE, FOOT TRAFFIC RATED) COMMERCIAL KITCHEN, BAR, OR PROCESSING LOCATIONS	4	2	4			JAY R. SMITH FIGURE NUMBER 3004Y-12, STAINLESS STEEL RECEPTOR, DOME STRAINER AND GRATE WITH TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
<u>GCO</u>	GRADE CLEANOUT (NON-PAVED AREAS)	SEE PLANS					JAY R. SMITH 4220 SERIES, ROUND EXTRA HEAVY DUTY CAST IRON TOP. FURNISH WITH WITH ABS PLUG. COVER TO BE INSCRIBED "SAN".
<u>GCO</u>	GRADE CLEANOUT (PAVED AREAS) (VEHICULAR TRAFFIC)	SEE PLANS					JAY R. SMITH 4250 SERIES, ROUND FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER. FURNISH WITH ABS PLUG. COVER TO BE INSCRIBED "SAN".
<u>GI-1</u>	GREASE INTERCEPTOR (1500 GALLONS)	4	3				PRE-CAST CONCRETE, 1500 GALLON CAPACITY, GREASE INTERCEPTOR. SEE DRAWING FOR DETAILS. NO SPLIT DESIGN VAULTS WITH GASKETS BELOW FLUID LEVEL ALLOWED.
<u>HB-1</u>	HOSE BIBB (EXTERIOR) (NON-FREEZE)				3/4		WOODFORD MODEL 67 - EXPOSED STYLE WITH MODEL 50HA BACKFLOW PREVENTER, 3/4" INLET , AND CHROME PLATED. PROVIDE WITH TEE KEY AND INSTALL AT 18" ABOVE FINISH GRADE.
<u>ID-1</u>	ICE AND WATER DISPENSER	INDIRECT	FULL SIZE T SINK	O FLOOR	1/2		PROVIDED BY OTHERS, ROUGH IN AND CONNECTED BY PLUMBING CONTRACTOR. PROVIDE AND INSTALL WITH BF-1.
<u>LAV-1</u>	MOTION SENSOR LAVATORY (WALL MOUNTED) (ELECTRIC OPERATED) (ADA COMPLIANT)	1 1/2	1 1/2	1 1/4	1/2	1/2	KOHLER KINGSTON MODEL K-2005: VITREOUS CHINA, WALL MOUNTED, HOLES ON 4" CENTERS, AND GRID STRAINER. SLOAN OPTIMA ELECTRONIC HAND WASHING FAUCET MODEL ETF-600 WITH PLUG-IN TRANSFORMER (120 VAC/24 VAC). PROVIDE WITH JAY R. SMITH FIGURE NUMBER 0700-Z SUPPORT WITH CONCEALED ARMS. PROVIDE WITH LS-1 LAV SHIELD.
<u>LAV-2</u>	MOTION SENSOR LAVATORY (WALL MOUNTED) (ELECTRIC OPERATED) (ADA COMPLIANT)	1 1/2	1 1/2	1 1/4	1/2	1/2	KOHLER KINGSTON MODEL K-2005: VITREOUS CHINA, WALL MOUNTED, HOLES ON 4" CENTERS, AND GRID STRAINER. SLOAN OPTIMA ELECTRONIC HAND WASHING FAUCET MODEL ETF-600 WITH PLUG-IN TRANSFORMER (120 VAC/24 VAC). WATTS SERIES LFUSG-B LEAD-FREE, THERMOSTATIC MIXING VALVE, ASSE STANDARD 1070 LISTED, BRONZE BODY, INTEGRAL CHECK VALVES, AND SELECTABLE TEMPERATURE RANGE FROM 80°F TO 120°F.PROVIDE WITH JAY R. SMITH FIGURE NUMBER 0700-Z SUPPORT WITH CONCEALED ARMS. PROVIDE WITH LS-1 LAV SHIELD.
<u>LS-1</u>	LAVATORY SHIELD (WALL MOUNTED SHIELD FOR CONCEALING PIPING, VALVES, AND INSTANTANEOUS WATER HEATERS)						TRUEBRO "LAV SHIELD" ADA COMPLIANT, TOTAL ENCLOSURE. SINGLE-PIECE CONSTRUCTION, SLOAN OPTISHIELD ETF-529, OR APPROVED EQUAL.
<u>OD-1</u>	OVERFLOW ROOF DRAIN (METAL GRATE)	SEE PLANS					JAY R. SMITH FIGURE NUMBER 1070Y GENERAL PURPOSE DRAIN WITH LOW PROFILE DOME. PROVIDE WITH SUMP RECEIVER, UNDERDECK CLAMP, CAST IRON DOME, INTERNAL DAM STANDPIPE, AND RAIN SHIELD.
<u>RD-1</u>	ROOF DRAIN (LOW PROFILE DOME STYLE) (METAL GRATE)	SEE PLANS					JAY R. SMITH FIGURE NUMBER 1010Y GENERAL PURPOSE DRAIN WITH LOW PROFILE DOME. PROVIDE WITH SUMP RECEIVER, UNDERDECK CLAMP, AND CAST IRON DOME.
<u>RH-1</u>	ROOF HYDRANT (NON-FREEZE) (DRAIN LINE REQUIRED)				3/4		WOODFORD MODEL RHY2-MS NON-FREEZE STYLE ROOF HYDRANT WITH 3/4" HOSE CONNECTION AND INTEGRAL DOUBLE CHECK BACKFLOW PREVENTER. REQUIRES 1/8" DRAIN LINE PIPED TO APPROVED INTERCEPTOR.
<u>RP-1</u>	RECIRCULATION PUMP (HOT WATER RETURN SYSTEM) (MEDIUM SIZED SYSTEM)					3/4	BELL AND GOSSETT BRONZE MODEL NBF-22, 115 VOLT, 0.8 AMPS, 92 WATTS, AND SHALL PROVIDE 7 GPM AT 10 FEET HEAD. INCLUDE 7-DAY PROGRAMMABLE ELECTRONIC TIME CLOCK WITH BATTERY BACKUP, INTERMATIC MODEL GM40AVE-RD89. APPROVED ALTERNATE: ARMSTRONG, TACO, GRUNDFOS.
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER NON POTABLE		INDIRECT		1		WATTS SERIES LF009 LEAD-FREE REDUCED PRESSURE ZONE ASSEMBLY WITH QUARTER-TURN BALL VALVES, STRAINER, AND AIR GAP. CAST COPPER BODY CONSTRUCTION - 1/2" THRU 2".
<u>S-1</u>	SINK - DOUBLE COMPARTMENT (14" X 14" X 6 1/2" - EACH) (ADA COMPLIANT)	2	1 1/2	1 1/2	1/2	1/2	ELKAY LUSTERTONE MODEL LRAD331965: 6-1/2" DEEP, STAINLESS STEEL SINK. PROVIDE AND INSTALL ELKAY MODEL LK3001CR SINGLE LEVER CHROME FAUCET WITH SWING SPOUT AND HOSE SPRAY, ELKAY MODEL LK35 STAINLESS STEEL STRAINER BASKET AND TAILPIECE, AND WATTS SERIES LFUSG-B LEAD-FREE, THERMOSTATIC MIXING VALVE, ASSE STANDARD 1070 LISTED, BRONZE BODY, INTEGRAL CHECK VALVES, AND SELECTABLE TEMPERATURE RANGE FROM 80°F TO 120°F.
<u>S-2</u>	SINK - CLASSROOM WITH BUBBLER (22"X19 1/2"X5 1/2") (ADA COMPLIANT) (SEE PLANS FOR LEFT AND RIGHT CONFIGURATIONS)	2	1 1/2	1 1/2	1/2	1/2	JUST CLASSROOM SINK # CRA-ADA-1725-A-GR (SEE PLANS FOR LEFT AND RIGHT LEDGES)(2 HOLES ON 4" CENTERS AND 1 BUBBLE HOLE FRONT OPPOSITE SIDE) 5 1/2" DEEP STAINLESS STEEL SINK, J-ADA-35 STAINLESS STEEL DRAIN WITH STRAINER AND STOPPER, CHICAGO FAUCETS MODEL 2302-ABCP/ SINGLE LEVER FAUCET AND SWING SPOUT, CHICAGO FAUCETS MODEL 748-665FHABCP/ BUBBLER, JUST MODEL JSB-10-VR-FLX BUBBLER. SWING SPOUT IS TO BE LOCKED IN PLACE.
<u>S-3</u>	SINK - KITCHEN HANDWASH (19" X 12" X 6") (WALL MOUNTED)	2	1 1/2	1 1/2	1/2	1/2	ELKAY HANDWASH SINK MODEL CHS1716C: 6" DEEP, WALL MOUNTED, STAINLESS STEEL SINK. PROVIDE AND INSTALL ELKAY MODEL LK940GN04L2H HIGH GOOSENECK SPOUT FAUCET WITH 8" CENTERS AND LEVER HANDLES, ELKAY MODEL LK8 GRID STRAINER AND TAILPIECE, ELKAY MODEL LK500 P-TRAP WITH CLEANOUT PLUG, AND WATTS SERIES LFUSG-B LEAD-FREE, THERMOSTATIC MIXING VALVE, ASSE STANDARD 1070 LISTED, BRONZE BODY, INTEGRAL CHECK VALVES, AND SELECTABLE TEMPERATURE RANGE FROM 80°F TO 120°F. PROVIDE WITH FAUCET-MOUNTED EYEWASH EYE-2.

	<u>SS-1</u>
ADDITIONAL COMMENTS	<u>SS-2</u>
	TD-1
TH BOTTLE FILLING STATION FURNISHED SHBAR. BOTTLE FILLER ACTIVATED BY ER. 115 VOLT, 5.0 AMPS, 60 HERTZ. RIER. OPTION - CANE APRON TO BE	<u>TP-1</u>
ALL FLANGE, NICKEL-BRONZE FINISH.	<u>TP-1</u>
ERIES THERMAL EXPANSION ABSORBER,	<u>U-1</u>
AL 45° ANGLED HEADS AND RECOIL HOSE, IGN, DOUBLE CHECK VALVE, STAINLESS	<u>WB-</u> 1
G LEAD-FREE EMERGENCY PM @ 5 PSID. PROVIDE WITH LOCKABLE D SELECTABLE TEMPERATURE RANGE	
VELING FLOOR DRAIN, NO-HUB OUTLET, RIMER PORT. INSTALL TOP OF DRAIN 1/8"	<u>WC-1</u>
UMINUM DOME STRAINER, NICKEL DW FINISH FLOOR AND CAULK EDGE.	
UMINUM DOME STRAINER, NICKEL OW FINISH FLOOR AND CAULK EDGE.	WC-2
OR, DOME STRAINER AND GRATE WITH D CAULK EDGE.	<u></u>
OR, DOME STRAINER AND GRATE WITH D CAULK EDGE.	<u>WC-3</u>
TOP. FURNISH WITH WITH ABS PLUG.	
DUTY CAST IRON COVER. FURNISH WITH	WCC
TOR. SEE DRAWING FOR DETAILS. NO ED.	<u>WH-1</u>
LOW PREVENTER, 3/4" INLET , AND VE FINISH GRADE.	<u>WH-2</u>
CONTRACTOR. PROVIDE AND INSTALL	<u>WS-1</u>
ED, HOLES ON 4" CENTERS, AND GRID ODEL ETF-600 WITH PLUG-IN IRE NUMBER 0700-Z SUPPORT WITH	NOTE
ED, HOLES ON 4" CENTERS, AND GRID ODEL ETF-600 WITH PLUG-IN REE, THERMOSTATIC MIXING VALVE, ASSE AND SELECTABLE TEMPERATURE RANGE 0700-Z SUPPORT WITH CONCEALED ARMS.	
ELE-PIECE CONSTRUCTION, SLOAN	
TH LOW PROFILE DOME. PROVIDE WITH . DAM STANDPIPE, AND RAIN SHIELD.	
TH LOW PROFILE DOME. PROVIDE WITH	
WITH 3/4" HOSE CONNECTION AND DRAIN LINE PIPED TO APPROVED	
2 WATTS, AND SHALL PROVIDE 7 GPM AT CLOCK WITH BATTERY BACKUP, STRONG, TACO, GRUNDFOS.	
MBLY WITH QUARTER-TURN BALL VALVES, 2" THRU 2".	
TEEL SINK. PROVIDE AND INSTALL ELKAY DUT AND HOSE SPRAY, ELKAY MODEL TTS SERIES LFUSG-B LEAD-FREE, NZE BODY, INTEGRAL CHECK VALVES, AND	
T AND RIGHT LEDGES)(2 HOLES ON 4" STAINLESS STEEL SINK, J-ADA-35 FAUCETS MODEL 2302-ABCP/ SINGLE 665FHABCP/ BUBBLER, JUST MODEL	

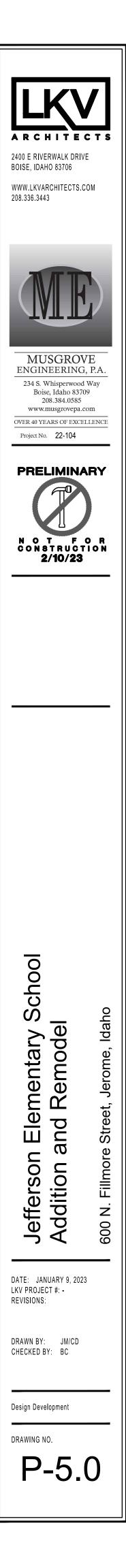
<u>SS-1</u>	SERVICE SINK (36" X 24" X 10") (FLOOR MOUNTED)	3	2	3	1/2	1/2	ACORN TERRAZZO-WARE MODEL TRH-242410: PROVIDE AND INSTALL WITH MODEL KFC CHROME UTILITY FAUCET, STAINLESS STEEL BUMPER GUARD, DRAIN GASKET, 36" HOSE AND WALL HANGER, MOP HANGER, AND (2) STAINLESS STEEL WALL GUARDS. MOUNT FAUCET 36" AFF.
<u>SS-2</u>	SERVICE SINK (28" RADIUS CORNER X 12") (FLOOR MOUNTED)	3	2	3	1/2	1/2	ACORN TERRAZZO-WARE MODEL TCR-28: PROVIDE AND INSTALL WITH MODEL KFC CHROME UTILITY FAUCET, STAINLESS STEEL BUMPER GUARD, DRAIN GASKET, 36" HOSE AND WALL HANGER, MOP HANGER, AND (2) STAINLESS STEEL WALL GUARDS. MOUNT FAUCET 36" AFF.
TD-1	TROUGH DRAIN	2	2	2			EAGLE GROUP FT-1218-SG 12X18 TROUGH DRAIN WITH STAINLESS STEEL GRATING. 14 GAUGE, TYPE 304 STAINLESS STEEL, CENTER BOTTOM DRAIN CONNECTION.
<u>TP-1</u>	TRAP PRIMER (PRESSURE ACTIVATED) (1 TO 4 TRAPS)				1/2"		PRECISION PLUMBING PRODUCTS MODEL CPO-500 WITH DU DISTRIBUTION UNIT IF REQUIRED FOR SERVING MORE THAN ONE TRAP.
<u>TP-1</u>	TRAP PRIMER (FLUSH VALVE PRIMER) (1 TRAP)				1/2"		PRECISION PLUMBING PRODUCTS MODEL FVP-1VB WITH VACUUM BREAKER. TRAP PRIMER TUBING SHALL BE INSTALLED OFF BACK OF FLUSH VALVE.
<u>U-1</u>	URINAL (MOTION SENSOR / BATTERY OPERATED) (SEE ARCH FOR MOUNTING HEIGHT)	2	1 1/2	INT.	3/4		KOHLER BARDON MODEL K-4991-ET WALL MOUNTED URINAL WITH 3/4" TOP SPUD. SLOAN REGAL 186 SFSM-0.5 SIDE MOUNT OPERATOR WITH MANUAL OVERRIDE FLUSH BUTTON, 0.5 GPF. INCLUDE BEEHIVE STRAINER AND JAY R. SMITH FIGURE NUMBER 0637 ADJUSTABLE FIXTURE SUPPORT.
<u>WB-1</u>	WALL BOX (WATER SUPPLY TO ICE MAKER)				1/2		OATEY FIREMASTER MODEL 39121 WITH FACEPLATE AND ADJUSTABLE METAL SUPPORT BRACKETS. FIRE-RATED, LOW LEAD, OR APPROVED EQUAL.
<u>WC-1</u>	WATER CLOSET (16-3/16" SEAT HEIGHT) (MOTION SENSOR / HARD WIRED) (FLOOR MOUNTED)	4	2	INT.	1		KOHLER WELLCOMME MODEL K-96053 / FLOOR MOUNTED, WITH ELONGATED BOWL. KOHLER LUSTRA MODEL K-4666-C / ELONGATED OPEN FRONT SEAT WITH HINGE. SLOAN ROYAL 186 ESS-1.6-TMO-HW FLUSHOMETER WITH MANUAL OVERRIDE FLUSH BUTTON, 1.6 GPF. PROVIDE WITH EL-154 TRANSFORMER (120 VAC / 24 VAC), EL-485-A FLUSHOMETER ELECTRICAL BOX. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING, CONDUIT, BOXES, TRANSFORMERS AND ASSOCIATED PARTS. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CONNECTION AT TRANSFORMER(S)
<u>WC-2</u>	WATER CLOSET (MOTION SENSOR / HARD WIRED) (WALL MOUNTED) (SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT)	4	2	INT.	1		KOHLER KINGSTON MODEL K-4325 WALL MOUNTED WITH ELONGATED BOWL. KOHLER LUSTRA MODEL K-4666-C ELONGATED OPEN FRONT SEAT WITH HINGE. SLOAN ROYAL 186 ESS-1.6-TMO-HW FLUSHOMETER WITH MANUAL OVERRIDE FLUSH BUTTON, 1.6 GPF. PROVIDE WITH EL-154 TRANSFORMER (120 VAC / 24 VAC), EL-485-A FLUSHOMETER ELECTRICAL BOX. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING, CONDUIT, BOXES, TRANSFORMERS AND ASSOCIATED PARTS. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CONNECTION AT TRANSFORMER(S)JAY R. SMITH FIGURE NUMBER 0211Y-M54 ADJUSTABLE FIXTURE SUPPORT WITH LEG KIT AND 8" NIPPLE.
<u>WC-3</u>	WATER CLOSET (17-1/2" SEAT HEIGHT) (MOTION SENSOR / HARD WIRED) (FLOOR MOUNTED) (COMFORT HEIGHT / ADA COMPLIANT)	4	2	INT.	1		KOHLER HIGHCLIFF ULTRA MODEL K-96057 FLOOR MOUNTED WITH ELONGATED BOWL. KOHLER LUSTRA MODEL K-4666-C ELONGATED OPEN FRONT SEAT WITH HINGE. SLOAN ROYAL 186 ESS-1.6-TMO-HW FLUSHOMETER WITH MANUAL OVERRIDE FLUSH BUTTON, 1.6 GPF. PROVIDE WITH EL-154 TRANSFORMER (120 VAC / 24 VAC), EL-485-A FLUSHOMETER ELECTRICAL BOX. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING, CONDUIT, BOXES, TRANSFORMERS AND ASSOCIATED PARTS. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CONNECTION AT TRANSFORMER(S)
WCO	WALL CLEANOUT	SEE PLANS					JAY R. SMITH 4472T SERIES WITH CAST BRONZE TAPER THREAD PLUG, STAINLESS STEEL ROUND COVER, AND A STAINLESS STEEL VANDAL PROOF SCREW.
<u>WH-1</u>	WATER HEATER (NOMINAL 100 GALLON) (NATURAL GAS - HIGH EFFICIENCY)				SEE PLANS	SEE PLANS	BRADFORD WHITE MODEL EF-100T-199E-3N. 199 MBH INPUT, 110V/1Ø, 1.8 AMPS, 28" DIAMETER, 78" TALL WITH SIDE CONNECTIONS. PROVIDE WITH PVC CONCENTRIC INTAKE/VENT KIT AND SEISMIC STRAP. PROVIDE WATER HEATER WITH HEAT TRAP.
<u>WH-2</u>	WATER HEATER (POINT OF USE) (ELECTRIC)				SEE PLANS	SEE PLANS	CHRONOMITE CMI SERIES MODEL CMI-20L/208, 208/1, 20 AMPS, 4.2 KW, WITH INTEGRAL MIXING VALVE, MODELKWIK-CON DISCONNECT, AND SHALL PROVIDE 57°F TEMPERATURE RISE AT 0.5 GPM. PROVIDE WITH LS-1 LAV SHIELD.
<u>WS-1</u>	WATER SOFTENER (DUPLEX SYSTEM)		INDIRECT		2		KINETICO COMMERCIAL DUPLEX WATER SOFTENER SYSTEM: SHALL MEET THE FOLLOWING CRITERIA: EXCHANGE CAPACITY OF 100-150 GRAINS, 60 GPM @ 15 PSI MAX PRESSURE DROP. 2000 GPD, 7 HOURS PER DAY, 5 DAYS A WEEK. ELECTRICAL SHALL PROVIDE 120V/1Ø PLUG OUTLET.
NOTES: 1.	ALL ADA COMPLIANT FIXTURES MUST COM	PLY WITH ICO	C/ANSI A117.1	I. SEE ARCH	IITECTURAL F	PLANS FOR H	ANDICAPPED FIXTURE DESIGNATIONS, LOCATIONS, CLEARANCES, AND MOUNTING HEIGHTS.

2. ALL EXPOSED HW PIPING, CW PIPING, AND DRAIN LINES BENEATH ALL LAVATORIES AND ALL ADA COMPLIANT SINKS MUST BE INSULATED TO PREVENT INJURY. REFER TO ARCHITECTURAL PLANS. INSULATE WITH

MOLDED CLOSED CELL VINYL INSULATION - TRUEBRO, PLUMBEREX, OR EQUAL. 3. PROVIDE P-TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS (TRAP PRIMERS ARE NOT INDICATED ON PLANS - REFERENCE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION). PROVIDE A BALL TYPE SHUT-OFF VALVE UPSTREAM OF PRIMER VALVE. SEE SPECIFICATIONS.

4. SEE SPECIFICATIONS FOR ALTERNATE APPROVED MANUFACTURERS.

5. HIGH EFFICIENCY WATER HEATERS: PROVIDE WITH CONDENSATE NEUTRALIZATION KIT BY JJM BOILER WORKS MODEL JM (OR EQUAL), SIZED PER EQUIPMENT CAPACITY.



				CON	NECTION SIZE	(INCHES)					
SYMBOL	FIXTURE DESCRIPTION	WASTE	VENT	TRAP	HARD CW	SOFT CW	SOFT HW	NAT. GAS	MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS	REMARKS	
<u>K-1</u>	DISH WASHER HIGH TEMP. WITH BUILT ON BOOSTER AND VACUUM BREAKER		RAIN LINE FU	,			3/4		EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	5 , 11	
<u>K-2</u>	DISH TABLE WITH TROUGH DRAIN		RAIN LINE FU TE INDIRECTI						EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.		
<u>K-3</u>	GARBAGE DISPOSER - SINK	3	2	3		1/2			EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	1	
<u>K-4</u>	PRE-RINSE UNIT					1/2	1/2		EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	13	
<u>K-8</u>	ICE MAKER / ICE BIN		RAIN LINE FU TE INDIRECTI			1/2			EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	1	
<u>K-9</u>	DOUBLE STACK CONVECTION OVEN		RAIN LINE FU TE INDIRECTI	,				3/4 (2)	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	8	
<u>K-14</u>	COUNTER WITH DBL. SINK		RAIN LINE FU TE INDIRECTI	,	-				EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.		
<u>K-16</u>	WALK IN COOLER	FULL	CONDENSAT SIZE, TERMIN	ATE					EQUIPMENT PROVIDED BY OTHERS, CONDENSATE DRAIN LINE ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.		
<u>K-17</u>	WALK IN FREEZER	FULL	CONDENSAT SIZE, TERMIN IRECTLY TO	ATE					EQUIPMENT PROVIDED BY OTHERS, CONDENSATE DRAIN LINE ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	10	
<u>K-18</u>	COMBI OVEN WITH WATER FILTER					1/2		1	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	7	
<u>K-19</u>	STEAM KETTLE WITH DRAIN STAND DRAWER		RAIN LINE FU TE INDIRECTI	,				3/4	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.		
<u>K-21</u>	COUNTER WITH TRIPLE SINK		RAIN LINE FU TE INDIRECTI	,					EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	1 , 12	
<u>K-25</u>	PEDESTAL POT AND KETTLE FILLER					1/2	1/2		EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.		
<u>K-27</u>	PRE RINSE UNIT					1/2	1/2		EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	13	
<u>K-28</u>	DOUBLE SINK MIXING FAUCET					1/2	1/2		EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.		

- 120°F.
- 4. NOT USED.
- 6. NOT USED.

- 12. NOT USED.

1. PLUMBING CONTRACTOR TO PROVIDE WITH REDUCED PRESSURE BACKFLOW PREVENTER WATTS, SERIES 009 LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY, MODEL NO. 009 SERIES WITH QUARTER TURN BALL VALVES, BRONZE STRAINER, AND AIR GAP. BRONZE BODY CONSTRUCTION, ROUTE DRAIN FULL SIZE TO FLOOR SINK, TERMINATE INDIRECTLY. SEE POINT OF USE REDUCED PRESSURE BACKFLOW PREVENTER DETAIL.

2. PLUMBING CONTRACTOR TO PROVIDE WITH WATTS SERIES USG-B THERMOSTATIC MIXING VALVE, ASSE STANDARD 1070 LISTED, BRONZE BODY, INTEGRAL CHECK VALVES, AND SELECTABLE TEMPERATURE RANGE FROM 90°F TO

3. PROVIDE SLIDE GATE FOR EACH BASIN DRAIN, MANIFOLD TOGETHER AND ROUTE TO FS.

5. PLUMBING CONTRACTOR TO PROVIDE COOL DOWN KIT ON DISH MACHINE DRAIN LINE WITH 1/2" CW LINE AND RPBP WATTS SERIES 009 LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY WITH SHUT OFF VALVES, BRONZE STRAINER, AND AIR GAP. BRONZE BODY CONSTRUCTION- 1/2" THRU 2", ROUTE DRAIN FULL SIZE TO FLOOR SINK, TERMINATE INDIRECTLY. SEE POINT OF USE REDUCED PRESSURE BACKFLOW PREVENTER DETAIL.

7. CONNECT FILTER AND FILTER LINE FROM FILTER, FILTER PROVIDED BY OTHERS.

8. SEE GAS SIZING CHART FOR FURTHER INFORMATION AND GAS RISER DIAGRAMS.

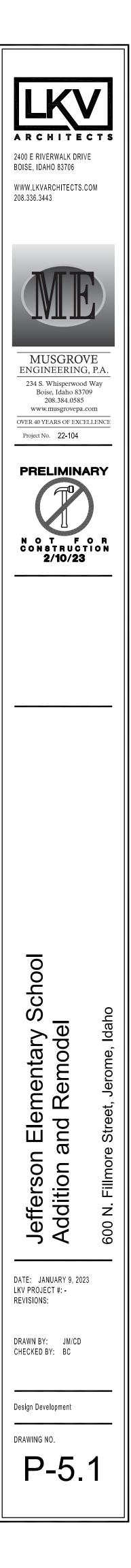
9. PLUMBING CONTRACTOR TO PROVIDE WATTS SD-3 DUAL CHECK VALVE ON WATER LINE CONNECTED TO SODA GUN, SIZE SAME AS LINE.

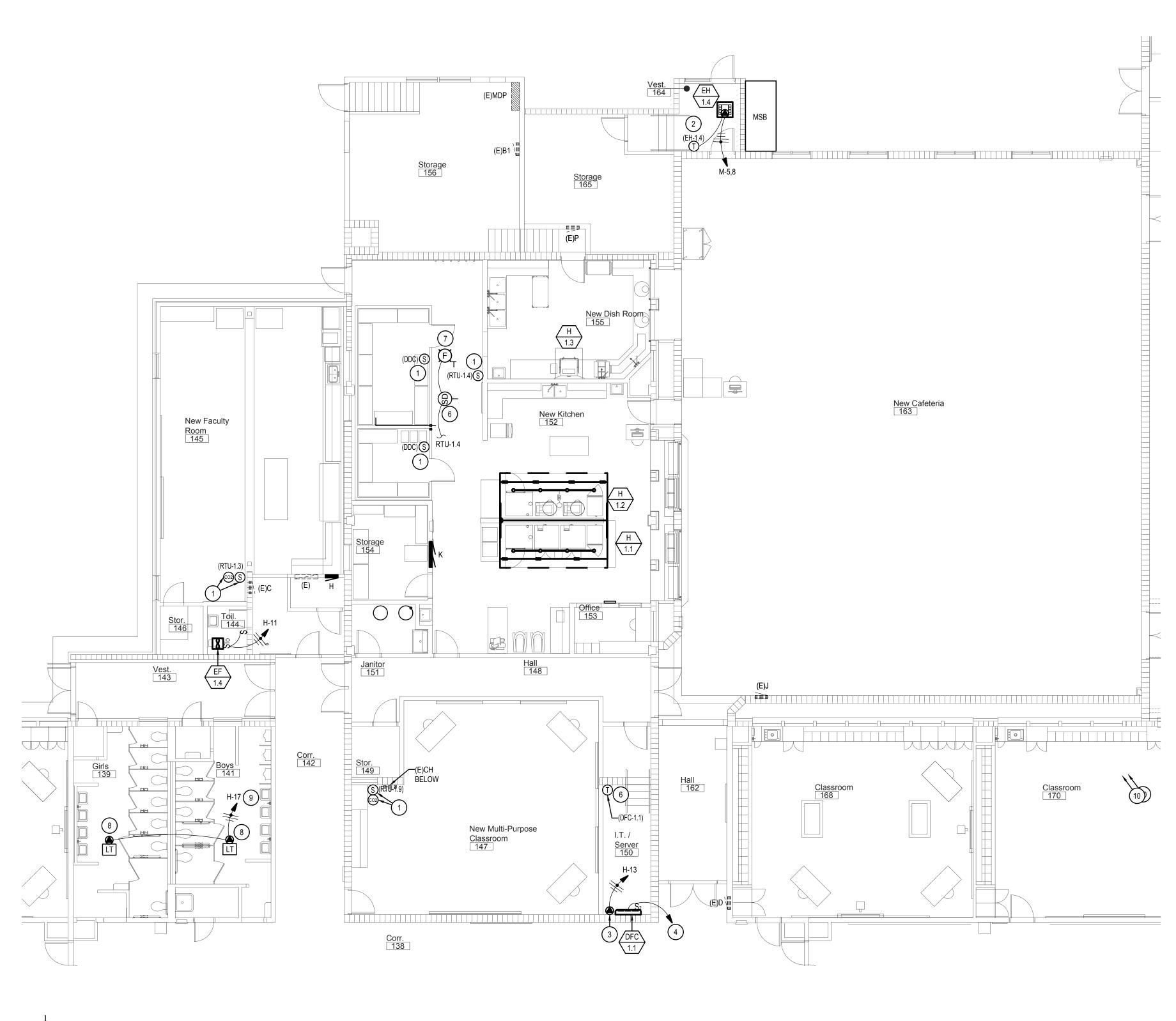
10. HEAT TRACE AND INSULATION CONDENSATE DRAIN LINE FROM EVAPORATIVE COOLER COIL IN FREEZER.

11. CONNECT BOOSTER TO DISH MACHINE.

13. PROVIDE CHECK VALVES ABOVE CEILING ON HOT AND COLD WATER LINES TO FAUCET.

14. PROVIDE P-TRAP PRIMERS FOR ALL FLOOR DRAINS, FLOOR TROUGH AND FLOOR SINKS. PROVIDE A BALL TYPE SHUT-OFF VALVE UPSTREAM OF PRIMER VALVE.



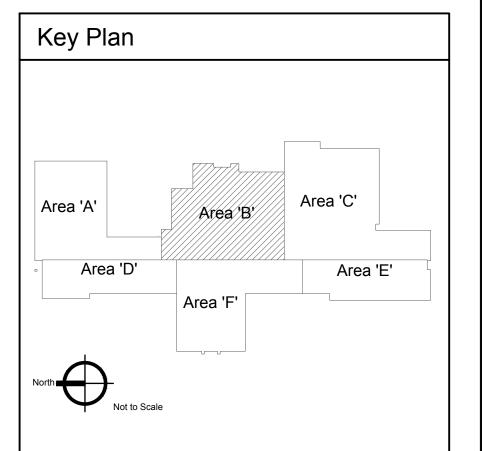


Mechanical Power Plan - Area 'B' Scale: 1/8" = 1'-0"

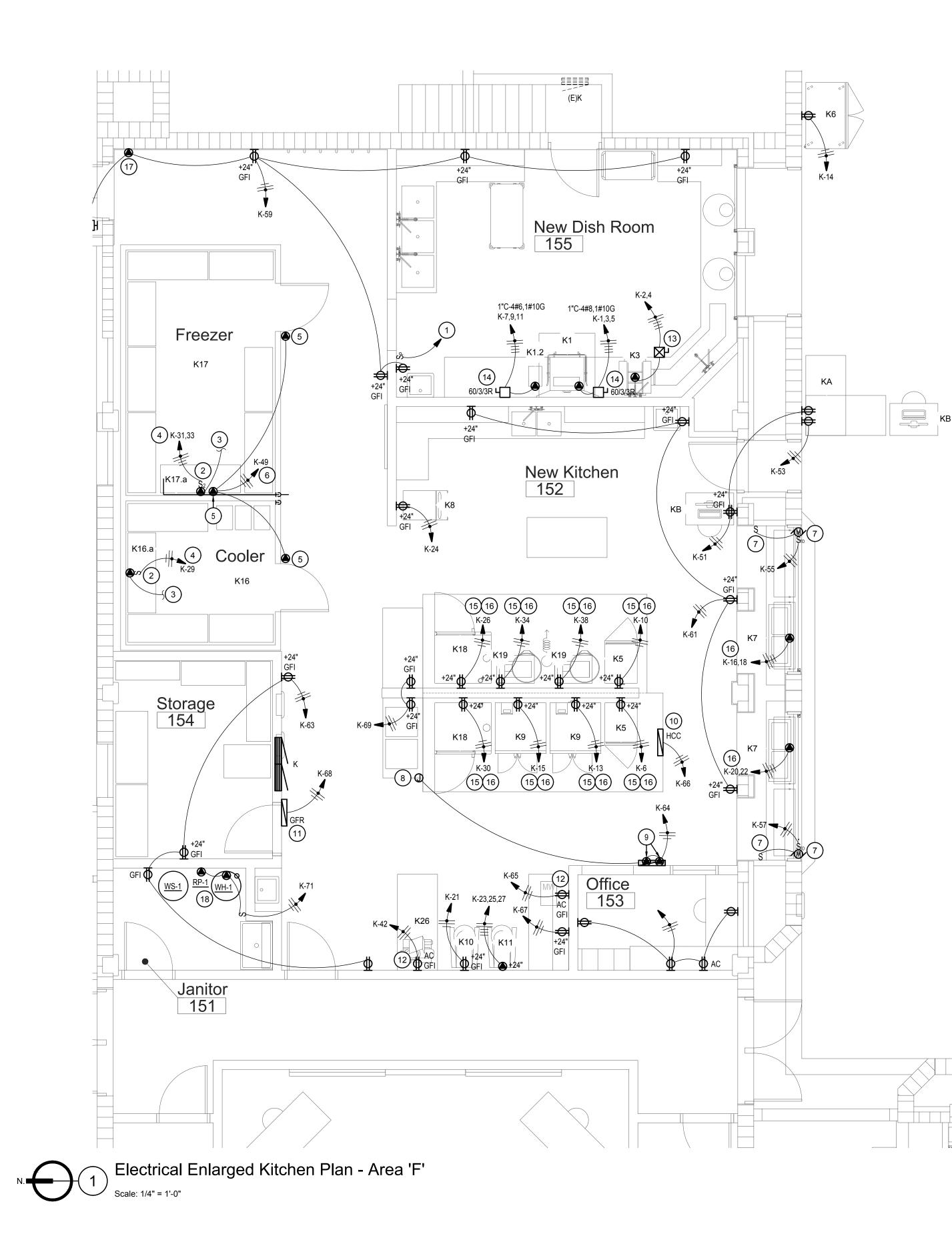
KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

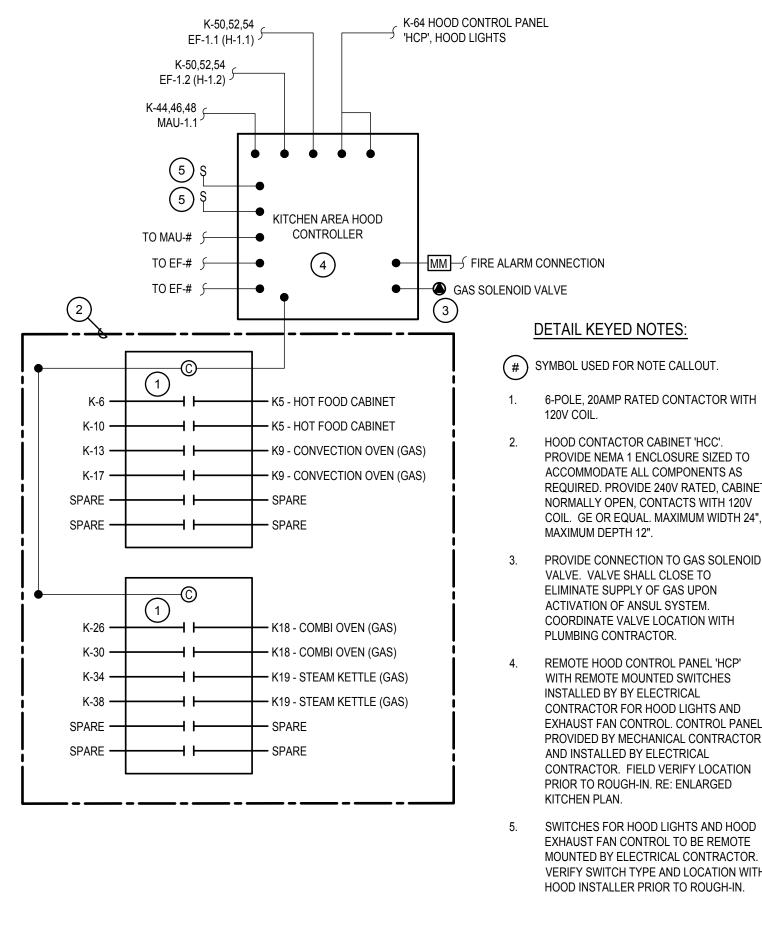
- HVAC SYSTEM SENSOR(S). BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 46" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.
- LINE VOLTAGE HEAT RISE T-STAT. 1/2" CONDUIT TO ASSOCIATED MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR.
- CONNECTION FOR CONDENSATION PUMP. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE AND INSTALL LINE VOLTAGE AND CONTROL CABLING TO THE CORRESPONDING OUTDOOR UNIT. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.
- 5. 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- 6. ELECTRICAL CONTRACTOR TO PROVIDE AND CONNECT DUCT DETECTOR. PROVIDE CONNECTION FOR MECHANICAL UNIT SHUT DOWN UPON ACTIVATION OF DUCT DETECTOR. MECHANICAL CONTRACTOR TO MOUNT DUCT DETECTOR IN RETURN SIDE OF DUCT WORK. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- 7. MOUNT DUCT DETECTOR INDICATOR LED/ANNUNCIATOR IN CEILING BELOW UNIT. LABEL TO IDENTIFY THE RTU IT IS ASSOCIATED WITH.
- PROVIDE CONNECTION FOR PLUMBING FIXTURE TRANSFORMER. TRANSFORMER(S) PROVIDED BY PLUMBING CONTRACTOR. COORDINATE CONNECTION REQUIREMENTS AND BACKBOX LOCATIONS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN TO PROVIDE COMPLETE SYSTEM. RE: PLUMBING SCHEDULES.
- 9. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT INDICATED.



2400 E RIVERWALK DRIVE BOISE, IDAHO 83706 WWW.LKVARCHITECTS.COM 208.336.3443	5
DESCRIPTION OF THE CONSTRUCTION 2/10/2023	
2/10/2023	-
Jefferson Elementary School Addition and Remodel	
DATE: December 9, 2022 LKV PROJECT #: - REVISIONS: DRAWN BY: AN CHECKED BY: KL	-
Design Development DRAWING NO. E-5.2	-



ITEM #	DESCRIPTION	MANUFACTURER	CONNECTION TYPE	ELECTRICAL DATA
K1	DISHWASHER	ADS	DIRECT CONNECT	
K1.2	DISHWASHER BOOSTER (EXTERNAL)	ADS	DIRECT CONNECT	
K3	GARBAGE DISPOSAL	HOBART	DIRECT CONNECT	
K5	HOT FOOD CABINET	METRO	PLUG	
K5	HOT FOOD CABINET	METRO	PLUG	
K6	REACH-IN FRIDGE	BEVERAGE-AIR	PLUG	
K7	STEAM DROP-IN	TABCO	PLUG	
K7	STEAM DROP-IN	TABCO	PLUG	
K8	ICE MAKER	MANITOWOC	PLUG	
K9	CONVECTION OVEN (GAS DBL STACK)	VULCAN	PLUG	
K9	CONVECTION OVEN (GAS DBL STACK)	VULCAN	PLUG	
K10	30 QUART MIXER	HOBART	PLUG	
K11	60 QUART MIXER	HOBART	DIRECT CONNECT	
K16	WALK-IN COOLER (FAN COIL)		DIRECT CONNECT	
K16a	WALK-IN COOLER (CONDENSER)		DIRECT CONNECT	
K17	WALK-IN FREEZER (FAN COIL)		DIRECT CONNECT	
K17a	WALK-IN FREEZER (CONDENSER)		DIRECT CONNECT	
K18	COMBI OVEN (GAS SINGLE STACK)	RATIONAL	PLUG	
K18	COMBI OVEN (GAS SINGLE STACK)	RATIONAL	PLUG	
K19	STEAM KETTLE (GAS)	CLEVLAND	PLUG	
K19	STEAM KETTLE (GAS)	CLEVLAND	PLUG	
K26	FOOD SLICER	HOBART	PLUG	
KA	OWNER FURNISHED MILK COOLER		PLUG	
KB	OWNER FURNISHED POS MACHINE		PLUG	



KITCHEN HOOD CONTACTOR PANEL DETAIL NTS

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

- 1. 2-POLE PILOT SWITCH FOR DISHWASHER HOOD FAN. SWITCH LIT IN ON POSITION. ROUTE TO DISHWASHER HOOD FAN LOCATED ON ROOF. VERIFY SWITCH LOCATION PRIOR TO ROUGH-IN. LABEL SWITCH "DISHWASHER EXHAUST". RE: ELECTRICAL ROOF PLAN – AREA 'B'.
- 2. CONNECTION FOR COOLER/FREEZER FAN COILS. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER/INSTALLER PRIOR TO ROUGH-IN. PROVIDE DISCONNECTING MEANS AS REQUIRED.
- PROVIDE 3/4" CONDUIT AND CONTROL CONDUCTORS AS NECESSARY 3. BETWEEN THE INTERIOR AND EXTERIOR MECHANICAL UNITS. COORDINATE WITH MECHANICAL CONTRACTOR AND KITCHEN WALK-IN COOLER/FREEZER SUPPLIER.
- 4. PROVIDE LOCKOUT BREAKER IN PANEL AT POSITION INDICATED.
- FURNISH AND INSTALL HEAT TAPE FOR WALK-IN DOOR AND CONDENSATE 5. LINE DEFROST. COORDINATE CONNECTION AND HEAT TAPE REQUIREMENTS FOR BOTH FREEZER AND COOLER WITH WALK-IN SUPPLIER/INSTALLER PRIOR TO ROUGH-IN.
- 6. PROVIDE GFEP BREAKER IN PANEL FOR EQUIPMENT PROTECTION (30mA.) 7. PROVIDE CONNECTION FOR MOTORIZED ROLLUP DOOR AND CONTROL
- 8. JUNCTION BOX FOR HOOD LIGHTS AND FAN CONTROLS MOUNTED AT 46" AFF. VERIFY CONTROL INTERFACE LOCATION AND BOX REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

SWITCH. VERIFY SWITCH LOCATION PRIOR TO ROUGH-IN.

- 9. CONNECTION FOR HOOD CONTROL PANEL AND LIGHTS. COORDINATE CONNECTION LOCATIONS WITH HOOD INSTALLER PRIOR TO ROUGH-IN. RE:KITCHEN HOOD CONTACTOR CABINET DETAIL. GROUND FAULT RELAY CABINET 'GFR' TO BE FLUSH MOUNTED NEXT TO PANEL 'K'.
- 10. HOOD CONTACTOR CABINET 'HCC'. CABINET TO BE LOCATED ABOVE ACCESSIBLE CEILING OR IN HOOD. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH HOOD INSTALLER/SUPPLIER PRIOR TO ROUGH-IN.
- 11. GROUND FAULT RELAY CABINET 'GFR'. CABINET TO BE LOCATED ABOVE ACCESSIBLE CEILING NEAR PANEL 'K'. RE: GROUND FAULT RELAY CABINET DETAIL.
- 12. ABOVE COUNTER RECEPTACLE. COORDINATE HEIGHT WITH COUNTER SUPPLIER TO ENSURE RECEPTACLE IS ABOVE STAINLESS BACKSPLASH PRIOR TO ROUGH-IN.
- 13. CONNECTION FOR FOOD WASTE DISPOSAL. PROVIDE WITH 'INSINKERATOR' CC-101 CONTROLLER. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN AND ORDERING CONTROL BOX BASED ON WATER TIMER SELECTION CIRCUIT.
- 14. DISCONNECTING MEANS TO BE LOCATED BELOW THE COUNTER. COORDINATE LOCATION TO ENSURE ACCESSIBILITY.
- 15. ROUTE CIRCUIT THROUGH HOOD CONTACTOR CABINET 'HCC'. RE: HOOD CONTACTOR CABINET DETAIL.
- 16. ROUTE CIRCUIT THROUGH THE GROUND FAULT RELAY PANEL 'GFR'. RE: GROUND FAULT RELAY CABINET DETAIL.
- 17. DOOR CHIME AND PUSH BUTTON. PROVIDE DOOR CHIME, TRANSFORMER AND EXTERIOR RATED PUSH BUTTON. PUSH BUTTON TO BE MOUNTED AT 46" AFG. PROVIDE ALL CONDUIT, JUNCTION BOXES AND CONDUCTORS AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
- 18. CONNECT WATER HEATER AND ALL ASSOCIATED DEVICES AND EQUIPMENT. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

HOOD CONTACTOR CABINET 'HCC'. PROVIDE NEMA 1 ENCLOSURE SIZED TO ACCOMMODATE ALL COMPONENTS AS REQUIRED. PROVIDE 240V RATED, CABINET NORMALLY OPEN, CONTACTS WITH 120V COIL. GE OR EQUAL. MAXIMUM WIDTH 24",

PROVIDE CONNECTION TO GAS SOLENOID VALVE. VALVE SHALL CLOSE TO ELIMINATE SUPPLY OF GAS UPON ACTIVATION OF ANSUL SYSTEM. COORDINATE VALVE LOCATION WITH

REMOTE HOOD CONTROL PANEL 'HCP' WITH REMOTE MOUNTED SWITCHES CONTRACTOR FOR HOOD LIGHTS AND EXHAUST FAN CONTROL. CONTROL PANEL PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. FIELD VERIFY LOCATION

SWITCHES FOR HOOD LIGHTS AND HOOD EXHAUST FAN CONTROL TO BE REMOTE MOUNTED BY ELECTRICAL CONTRACTOR. VERIFY SWITCH TYPE AND LOCATION WITH

MUSGROVE	
ENGINEERING, I 234 S. Whisperwood W Boise, Idaho 83709 208.384.0585 www.musgrovepa.con OVER 40 YEARS OF EXCELL Project No. 22-104	P.A. Yay
PRELIMINARY	-
Jefferson Elementary School Addition and Remodel	600 N. Fillmore Street, Jerome, Idaho

ARCHITECTS

2400 E RIVERWALK DRIVE

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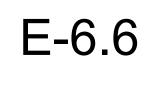
208.336.3443

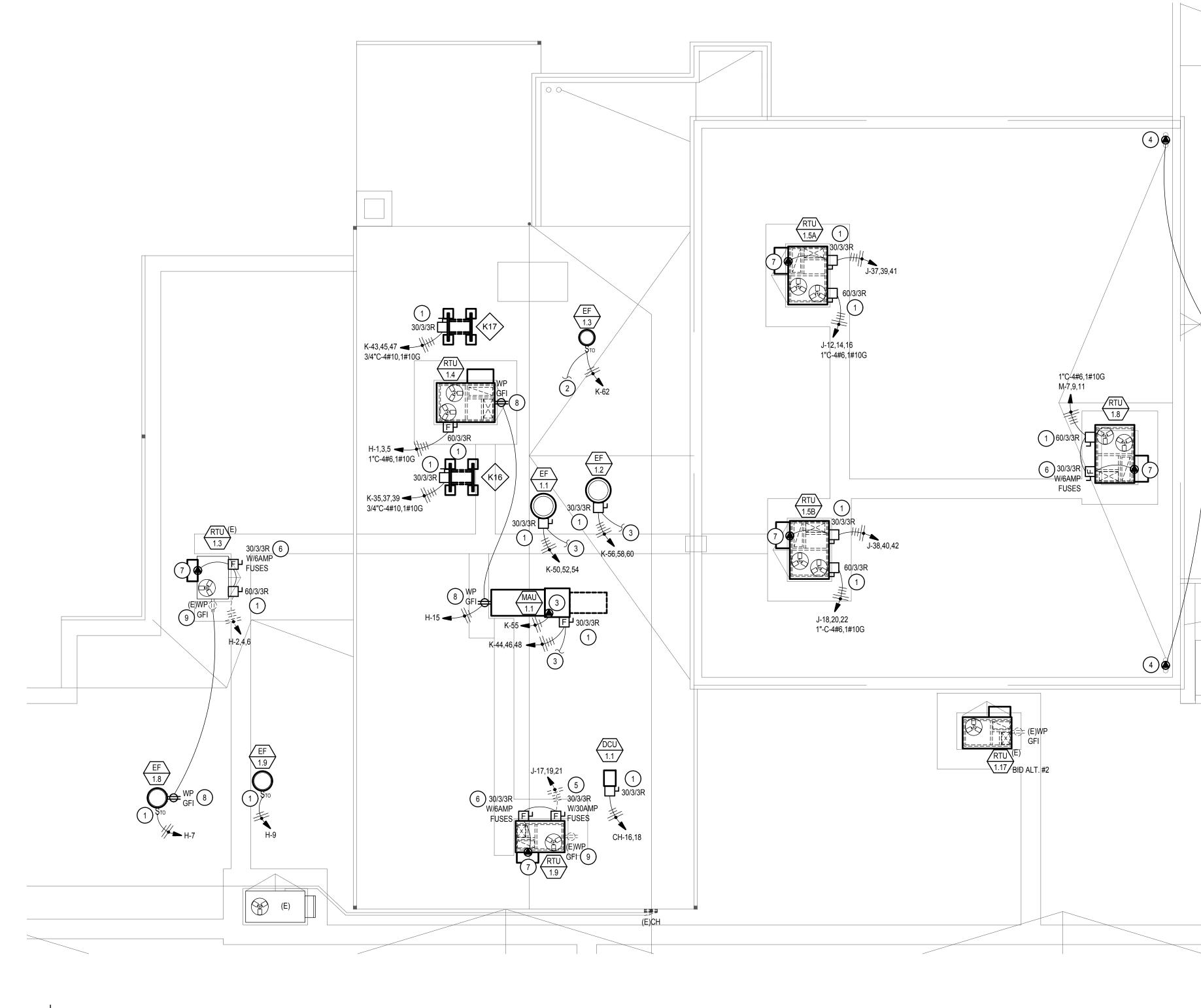
DATE: December 9, 2022 LKV PROJECT #: -REVISIONS:

DRAWN BY: AN CHECKED BY: KL

esign	Development	

DRAWING NO.



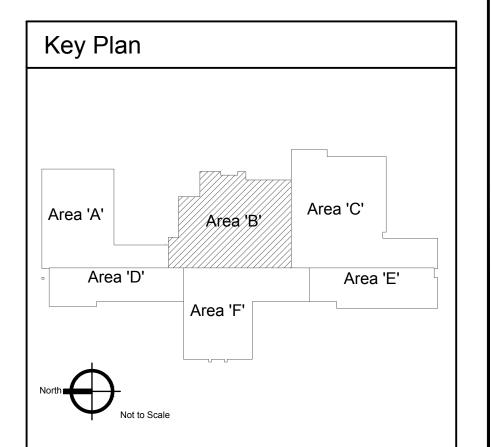


N. 1 Electrical Roof Plan - Area 'B' Scale: 1/8" = 1'-0"

KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

- 1. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
- 2. ROUTE TO DISHWASHER HOOD FAN PILOT SWITCH LOCATED IN KITCHEN. RE: ENLARGED KITCHEN PLAN - AREA 'F'.
- 3. CONNECTION FOR PLUMBING CONTROLS VALVES. COORDINATE CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- 4. INTERLOCK WITH KITCHEN HOOD CONTROL PANEL 'HCP'. ROUTE CIRCUIT THROUGH 'HCP' AND PROVIDE ALL CONNECTIONS AND HARDWARE REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR FOR REQUIREMENTS AND EXACT LOCATION. RE: KITCHEN HOOD CONTACTOR CABINET DETAIL.
- FUSED MAIN DISCONNECT AS INDICATED. FIELD COORDINATE FUSED DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
- 6. FUSED DISCONNECT AS INDICATED FOR SEPARATE POWERED EXHAUST CONNECTION. COORDINATE LOCATION AND MOUNTING WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES. CONNECT TO THE LINE SIDE OF THE MAIN DISCONNECT. PROVIDE GUTTER, JUNCTION BOX(ES), WIRE TAPS AS REQUIRED, MAXIMUM LENGTH OF CONDUCTORS SHALL BE 10 FEET. LABEL THE DISCONNECT AS "POWERED EXHAUST DISCONNECT".
- 7. CONNECTION FOR POWERED EXHAUST UNIT. COORDINATE LOCATION AND ROUTING OF CONDUIT WITH MECHANICAL CONTRACTOR.
- 8. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE
- 9. EXISTING RECEPTACLE NEAR NEW MECHANICAL UNIT. EXTEND EXISTING CIRCUIT CONDUIT AND CONDUCTORS FROM EXISTING CONVENIENCE RECEPTACLE TO NEW LOCATION ON/NEAR NEW MECHANICAL UNIT. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE



ARCHITECT 2400 E RIVERWALK DRIVE BOISE, IDAHO 83706 WWW.LKVARCHITECTS.COM 208.336.3443	S
COVER 40 YEARS OF EXCELLEN Project NO. 22-104	
NOT FOR CONSTRUCTIO 2/12/2023	N
Jefferson Elementary School Addition and Remodel	I 600 N. Fillmore Street, Jerome, Idaho
DATE: December 9, 2022 LKV PROJECT #: - REVISIONS: DRAWN BY: AN CHECKED BY: KL	
Design Development DRAWING NO. E-8.2	-

TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MFG. & CATALOG NUMBER	OR EQUAL BY	NOTE
	4' LED STRIP FIXTURE WITH LENS	CEILING	LED		LITHONIA NO.	LIGHTOLIER	
BL1	FINISH WHITE	SURFACE	3000 LUMENS	20.3	CLX-L48-3000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-WH	METALUX	1
			4000K		(PROVIDE WITH 'PS1050-SPD' OPTION FOR EMERGENCY FIXTURES)	H.E.WILLIAMS	
	4' LED STRIP FIXTURE WITH LENS	CHAIN	LED		LITHONIA NO.	LIGHTOLIER	
BL2	FINISH MATTE BLACK, 1% DIMMING	HUNG	3000 LUMENS	20.3	CLX-L48-3000LM-SEF-RDL-MVOLT-EZ1-40K-80CRI-MB-THCLXMB-HC36M12	METALUX	1
	STAGE LIGHTING		4000K		(PROVIDE WITH 'PS1050-SPD' OPTION FOR EMERGENCY FIXTURES)	H.E.WILLIAMS	
	SINGLE FACED, THERMOPLASTIC EXIT SIGN,	AS			LITHONIA NO.	COMPASS	
EX1	GREEN LETTERING WITH CADMIUM BATTERY	NOTED ON	LED	0.7	LQM-S-W.3-G-MVOLT-ELN-SD	MULE	1
	AND SELF DIAGNOSTIC	DRAWINGS				H.E.WILLIAMS	
	2X4 LED VOLUMETRIC TROFFER	CEILING	LED		LITHONIA NO.	LIGHTOLIER	
GL1		GRID	4000 LUMENS	31.7	2BLT4-40L-ADP-GZ1-LP840	METALUX	1
			4000K		(PROVIDE WITH 'EL14LSD' OPTION FOR EMERGENCY FIXTURES)	H.E.WILLIAMS	
	2X4 LED VOLUMETRIC TROFFER	CEILING	LED		LITHONIA NO.	LIGHTOLIER	
GL2		GRID	3000 LUMENS	23.6	2BLT4-30L-ADP-GZ1-LP840	METALUX	1
			4000K		(PROVIDE WITH 'EL14LSD' OPTION FOR EMERGENCY FIXTURES)	H.E.WILLIAMS	
	2X4 LED FLAT PANEL, SELECTABLE OUTPUT	CEILING	LED		LITHONIA NO.	LIGHTOLIER	
GL3		GRID	4000 LUMENS	32.3	2GTL4-40L-GZ1-LP840	METALUX	
			4000K		(PROVIDE WITH 'EL10WLCP' OPTION FOR EMERGENCY FIXTURES)	H.E.WILLIAMS	
1154	LED HIGH BAY, CABLE HUNG, WIRE GUARD	AIRCRAFT	LED	405			
HB1		CABLE	15000 LUMENS	105	IBE-L24-15000LM-SD080-MD-MVOLT-GZ10-40K-80CRI-DWH-IBAC120M20-WGIBE		
		AIRCRAFT	4000K LED		(PROVIDE WITH 'E15WCP' OPTION FOR EMERGENCY FIXTURE)		
HB2	LED HIGH BAY, CABLE HUNG, WIRE GUARD	CABLE	15000 LUMENS	105	IBE-L24-15000LM-SD080-MD-MVOLT-GZ10-40K-80CRI-DWH-IBAC120M20		
HD2		CABLE	4000K	105	(PROVIDE WITH 'E15WCP' OPTION FOR EMERGENCY FIXTURE)		
	LED ROUND RECESSED, 6" APERATURE	CEILING	LED		LITHONIA NO.		
RL1	LED ROOND RECEISED, O AFEINTORE	RECESSED	1000 LUEMNS	10.4	LDN6-40/10-L06AR-LSS-MVOLT-GZ1		
		RECEOULD	4000K	10.4	(PROVIDE WITH 'ELSD' OPTION FOR EMERGENCY FIXTURES)		
	LED ROUND RECESSED, 6" APERATURE	CEILING	LED		LITHONIA NO.		
RL2		RECESSED	2000 LUMENS	22.5	LDN6-40/20-L06AR-LSS-MVOLT-GZ1		
			4000K		(PROVIDE WITH 'ELSD' OPTION FOR EMERGENCY FIXTURES)		
		CEILING	LED				
SL1	4' LED SURFACE FIXTURE	SURFACE	3000 LUMENS	25	BLWP4-3-0L-ADP-GZ1-LP840		
			4000K		(PROVIDE WITH 'EL10WLCP' OPTION FOR EMERGENCY FIXTURES)		
		CEILING	LED		LITHONIA NO.		
SL2	2' LED SURFACE WRAP AROUND	SURFACE	2000 LUMENS	17	LBL2-2000LM-80CRI-40K-MIN10-GZT-MVOLT		
			4000K				
		CEILING	LED		LITHONIA NO.		
SL3	LED ROUND SURFACE, 7" APERATURE	SURFACE	1000 LUMENS	13	JSF-7IN 10LM-40K-90CRI-MVOLT ZT-WH		
			4000K				
	8' TRACK LIGHTING, 2-CIRCUIT, 2-NEAUTRALS, (6)		LED		LITHONIA NO.		
TL1	DIMMABLE LED FIXTURES, (3) COLOR FILTERS,	SURFACE	1023 LUMENS	15W PER	TRACK: TEK412-BL FIXTURE HEAD: T254L-TEK-G2-40K-80CRI-PDIM-NFL-BL		
	24-DEGREE FOCAL BEAM, BLACK FINISH		4000K	HEAD			
	4' LED WALL MOUNTED FIXTURE	WALL MOUNTED	LED		LITHONIA NO.		
WB1		ABOVE	2000 LUMENS	18.7	WL4-20L-EZ1-LP840		
		VANITY	4000K				
	2' LED WALL MOUNTED FIXTURE	WALL MOUNTED			LITHONIA NO.		
WB2		ABOVE	1800 LUMENS	12.2	WL2-18L-EZ1-LP840		
		VANITY	400K				
	LED WALL PACK	WALL	LED		LITHONIA NO.		
WP1		MOUNTED	1227 LUMENS	10	WDGE1 LED-P1-40K-80CRI-VF-MVOLT-DDBXD		
	TURE SCHEDULE NOTES:	+10'-6' UNO	4000K		PROVIDE WITH 'E4WH' OPTION FOR EMERGENCY FIXTURES)		

ZONE	DESCRIPTION	CKTS
1		
2		
3		
4		
NOTES:		
1. PROVIDE UN	SWITCHED LEG TO EGRESS FIXTURES.	
2. PROVIDE TIM	ECLOCK PROGRAMMING AS REQUIRED	
COORDINATE	TIME SCHEDULE WITH OWNER.	

	TAGE: 208 / 120 V S OF DESIGN PANEL TYPE:	3 PANEL E	PH BOARD	4	WIRE			ATING: LOSURE TYI	400A	1 WI	Ή 4	100A	MLO	PANE	MOUNTING: FLUSH ELAIC RATING: 10000 AIC	
	NOTES:		JUAND					REMARKS		1				FANE	LAIC NATING. 10000 AIC	
GFI RE	CIFOR PERSONNEL PROTECTION (5mA) EPFOR EQUIPMENT PROTECTION (30mA) EDHANDLE, LOCKABLE BREAKER	6. LOCK	OUT HA	SP											OUGH LUGS. TION 1 TO SECTON 2	
SH	UNT TRIP BREAKER	СКТ	LOAD	LOAD	AMP	S/		LOAD (VA)	AM	S/	LOAD	LOAD	СКТ		
кт	DESCRIPTION	NOTE	VA	AMPS	POLE		А	B	, C	POL		AMPS	VA	NOTE	DESCRIPTION	СКТ
1	K1-DISHWASHER		3936	32.8	40	3	4851.2		7	20	3	10.6	<mark>915</mark>		K3-DISPOSAL	2
3 5	***		3936	32.8 32.8	**	*		4851.2	5936	**	*	10.6 9.6	915 2000	4	*** K5-HOT FOOD CABINET	4
7	K1.2-BOOSTER HEATER (EXTERNAL)		3936 4000	32.8	50	3	4000	1	0930	20 **	2	9.6	2000	4	K5-HUNT TRIP	8
9	***		4000	33.3	**	*		6000]	20	2	9.6	2000	4	K5-HOT FOOD CABINET	10
1	***		4000	33.3	**	*		 1	4000	**	*			4	K5-SHUNT TRIP	12
3	K9-CONVECTION OV EN (GAS DBL STACK) K9-SHUNT TRIP	4	1920	16.0	20	1	2640	800	7	20	1	6.0 7.7	720 800		K6-REACH-IN FRIDGE K7-2 WELL STEAM DROP-IN	14 16
5 7	K9-CONVECTION OVEN (GAS DBL STACK)	4	1920	16.0	20	1		800	2720	20 **	2	7.7	800		***	18
9	K9-SHUNT TRIP	4			**	*	800]		20	1	6.7	800		K7-2 WELL STEAM DROP-IN	20
	K10-30 QUART MIXER		1140	9.5	20	1		1940		20	1	<u>6.7</u>	800		***	22
3 5	K11-60 QUART MIXER		1200 1200	10.0 10.0	20 **	3	3120	1	1920	20 20	1	6.0 16.0	720 1920	4	K8-ICE MAKER K18-COMBI OVEN (GAS SINGLE STACK)	24 26
.7	***		1200	10.0	**	*	5120	1200	7	**	*	10.0	1520	4	K18-SHUNT TRIP	28
9	K16a-WALK-IN COOLER (FAN COIL)	6	500	4.2	20	1		-	2420	20	2	16.0	1920	4	K18-COMBIOVEN (GAS SINGLE STACK)	30
1			050	0.0	20	1	0	050	7	**	*	5.0	000	4		32
3 5	K17a-WALK-IN FREEZER (FAN COIL) ***	6 6	250 250	2.4 2.4	20 **	2		850	250	20 **	2	5.0	600	4	K19-STEAM KETTLE (GAS) K19 - SHUNT TRIP	34 36
7	K16-WALK-IN COOLER (CONDENSER)	Ľ	2880	24.0	30	3	3480	1		20	2	5.0	600	4	K19-STEAM KETTLE (GAS)	38
9	***		2880	24.0	**	*		2880		**	*			4	K19 - SHUNT TRIP	40
1			2880	24.0	**	*	4000	1	3600	20	1	6.0	720		K26-FOOD SLICER	42
3 5	K17-WALK-IN FREEZER (CONDENSER) ***		2800 2800	23.3 23.3	30 **	3 *	4228	4228	1	20 **	3 *	11.9 11.9	1428 1428		MAU-1.1 ***	44 46
	***		2800	23.3	**	*			4228	**	*	11.9	1428		***	40
_	WALK-IN COOLER/FREEAER HEAT TAPE	2	900	7.5	20	1	1452			20	1	4.6	552		EF-1.1 (H-1.1)	50
	POS MACHINES, KITCHEN/CAFETERIA MILK COOLER. CAFETERIA		720	6.0 6.0	20	1		1272	1272	20 20	1	4.6	552 552		***	52 54
-	MILK COOLER, CAFETERIA MOTORIZED ROLLUP DOOR		720 540	6.0 4.5	20 20	1	1092	T	1212	20	1	4.6 4.6	552 552		ег-1.2 (H-1.2)	54 56
_	MOTORIZED ROLLUP DOOR		540	4.5	20	1		1092		20	1	4.6	552		***	58
9	REC-KITCHEN 152/DISHROOM 155		900	7.5	20	1		-	1452	20	1	4.6	552		***	60
3	REC-KITCHEN 152/DISHROOM 155 REC-KITCHEN 152/JAN.151/STOR.154		720 720	6.0 6.0	20 20	1	1593	1320	7	20 20	1	7.3 5.0	873 600		EF-1.3 HOOD CONTROL PANEL 'HCP' & HOOD LTS	62 64
5	REC-MICROWAVE		1200	10.0	20	1		1520	1800	20	1	5.0	600		HOOD CONTACTOR CABINET 'HCC'	66
7	REC-KITCHEN 152		180	1.5	20	1	780]	_	20	1	5.0	600		GROUND FAULT RELAY CABINET 'GFR'	68
9	REC-KITCHEN 152		360	3.0	20	1		360		20	1	0.0			SPARE	70
1 3	WH-1, JANITOR 151 SPARE		360	3.0 0.0	20 20	1	0	1	360	20 20	1	0.0			SPARE SPARE	72 74
							•			20	<u>.</u>					76
75	SPARE			0.0	20	1		0	7	20	1	0.0			SPARE	10
77	SPARE			0.0	20	1 1		0	0	20	1 1	0.0			SPARE	78
75 77 79	SPARE SPARE			0.0 0.0	20 20	1 1 1	0]		20 20	1 1 1	0.0 0.0			SPARE SPARE	78 80
7 9 1 3	SPARE	PROJI		0.0 0.0 0.0 0.0	20 20 20 20	1 1 1 1	28036.2 233.6	0 0 26793.2 223.3 DL ADDITIO	0 29958.0 249.7	20 20 20 20 VA AMPS	1 1 1 1	0.0		84787	SPARE	78
77 79 31 33 0LT ASIS	SPARE SPARE SPARE SPARE	3	ECT: JEF PH BOARD	0.0 0.0 0.0 FERSOI	20 20 20 20		28036.2 233.6 ARY SCHO AMPER NEMA E REMAR	0 26793.2 223.3 DL ADDITIO E RATING: NCLOSURE	0 29958.0 249.7 N AND REM 200A TYPE:	20 20 20 VA AMPS		0.0 0.0 0.0	A MLC)	SPARE SPARE SPARE SPARE	78 80 82
7 9 31 33 OLT ASIS 6F(GF(SPARE SP	3 PANEL	PH BOARE	0.0 0.0 0.0 5FERSOI	20 20 20 VELEN WI	RE	28036.2 233.6 ARY SCHO AMPER NEMA E REMAR NEW PA	0 26793.2 223.3 DL ADDITIO E RATING: NCLOSURE KS: NEL WITH M CONDUITS /	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU	20 20 20 VA AMPS ODEL 1		0.0 0.0 0.0 0.0	DLISHED	PANEL 'H	SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC	78 80 82
77 79 31 33 0LT ASIS KT N GF0 GF1	SPARE SP	3 PANEL	PH BOARE	0.0 0.0 0.0 0.0 5FERSOI 4 0	20 20 20 VELEN WI	RE MPS/	28036.2 233.6 ARY SCHO AMPER NEMA E REMAR NEW PA	0 26793.2 223.3 DL ADDITIO E RATING: NCLOSURE KS: NEL WITH M	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU	20 20 20 VA AMPS ODEL 1 LY. CTORS	WITH	0.0 0.0 0.0 0.0 200		PANEL 'H	SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC	78 80 82
	SPARE SP	3 PANEL	PH BOARE	0.0 0.0 0.0 0.0 FFERSOI	20 20 20 20 VELEN WI	RE VIPS/	28036.2 233.6 AM PER NEM A E REMAR NEW PA EXTEND	0 26793.2 223.3 DL ADDITIO E RATING: INCLOSURE KS: NEL WITH M CONDUITS /	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU	20 20 20 VA AMPS ODEL 1 LY. CTORS	WITH FROM	0.0 0.0 0.0 0.0	AD LC	PANEL 'H	SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC	78 80 82
	SPARE SP	3 PANEL	PH BOARE LOA VA 4680 4680	0.0 0.0 0.0 0.0 4 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 NELEN WI S PO 0 5 0	MPS/ LES	28036.2 233.6 ARY SCHO AMPER NEMA E REMAR NEW PA EXTEND	0 26793.2 223.3 DL ADDITIO E RATING: INCLOSURE KS: NEL WITH M CONDUITS /	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU	20 20 20 VA AMPS ODEL 1 LY. CTORS	WITH FROM	0.0 0.0 0.0 0.0 1 200 M DEMC	AD LC PS V .9 32	PANEL 'H	SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC II' TO NEW PANEL 'H' LOCATION. KT OTE DESCRIPTION (E)RTU-1.3 W/ (N) POWER EXHAUST ***	78 80 82
	SPARE AGE: 208 / 120 V SOF DESIGN PANEL TYPE: NOTES: CI FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** ***	3 PANEL	PH BOARE LOA VA 4680 4680 4680	0.0 0.0 0.0 0.0 5FERSOI 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 NELEN WI S PO 0 50	RE MPS/ JLES 50 ***	28036.2 233.6 AMPER NEMA E REMAR NEW PA EXTEND 3 7908 * *	0 26793.2 223.3 DL ADDITIO E RATING: INCLOSURE KS: NEL WITH M CONDUITS / LOAD (' B LOAD (' B	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU	20 20 20 VA AMPS ODEL 1 LY. CTORS	WITH FROM MPS/ DLES 10 (***	0.0 0.0 0.0 0.0 200 M DEMC 4 LO, AM 3 26 * 26	AD LC PS V .9 32 .9 32	DAD (0) 228 228 228	SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC II' TO NEW PANEL 'H' LOCATION. II' TO NEW PANEL 'H' LOCATION. CKT OTE ESCRIPTION (E)RTU-1.3 W/ (N) POWER EXHAUST *** ***	78 80 82
	SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE ANEL: H TAGE: 208 / 120 V S OF DESIGN PANEL TYPE: NOTES: CI FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** *** EF-1.8, ROOF	3 PANEL	PH BOARE LOAI VA 4680 4680 4680 506	0.0 0.0 0.0 0.0 7 FERSOI 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 NELEN WI S PO 0 5 0 5 0 2 2 2	RE MPS/ 0LES 60 ** 20	28036.2 233.6 ARY SCHO AMPER NEW PA EXTEND A 3 7908	0 26793.2 223.3 DL ADDITIO E RATING: INCLOSURE KS: NEL WITH M CONDUITS / LOAD (' B	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU	20 20 20 VA AMPS ODEL 1 LY. CTORS	WITH FROM MPS/ DLES 10	0.0 0.0 0.0 0.0 1 200 M DEMO 4 DEMO 3 26 * 26 3 53	AD LC PS V .9 32 .9 32 .9 32 .0 63	DAD (0) (A N) (228 (228 (228) (360)	SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC II' TO NEW PANEL 'H' LOCATION. KT OTE DESCRIPTION (E)RTU-1.3 W/ (N) POWER EXHAUST ***	78 80 82
	SPARE AGE: 208 / 120 V SOF DESIGN PANEL TYPE: NOTES: CI FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** ***	3 PANEL	PH BOARE LOA VA 4680 4680 4680	0.0 0.0 0.0 0.0 4 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 NELEN WI %S PO 0 5 0 0 5 0 0 0 0	RE MPS/ JLES 50 ***	28036.2 233.6 AMPER NEMA E REMAR NEW PA EXTEND 3 7908 * *	0 26793.2 223.3 DL ADDITIO E RATING: INCLOSURE KS: NEL WITH M CONDUITS / LOAD (' B LOAD (' B	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU	20 20 20 VA AMPS ODEL 1 LY. CTORS	WITH FROM MPS/ DLES 40 *** *** 70	0.0 0.0 0.0 0.0 200 M DEMC 4 LO, AM 3 26 * 26	AD LC PS V .9 32 .9 32 .9 32 .0 63	DAD (0) 228 228 228	SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC I' TO NEW PANEL 'H' LOCATION. I' TO NEW PANEL 'H' LOCATION. CKT OTE DESCRIPTION (E)RTU-1.3 W/ (N) POWER EXHAUST *** *** RTU-1.5A	78 80 82
	SPARE	3 PANEL	PH BOARE LOA VA 4680 4680 4680 506 667	0.0 0.0 0.0 0.0 4 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 NELEN WI S PO 0 5 0 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	RE MPS/ 0LES 60 ** 20 20	28036.2 233.6 AMPER NEMA E REMAR NEW PA EXTEND 3 7908 * *	0 26793.2 223.3 DL ADDITIO E RATING: INCLOSURE KS: NEL WITH M CONDUITS / LOAD (' B 1 7908	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU VA) C 7908	20 20 20 VA AMPS ODEL 1 LY. CTORS	WITH FROM MPS/ DLES 10 (*** 70 (0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LISHED PS V .9 32 .9 32 .0 63 .0 63	PANEL 'H PANEL 'H PANEL 'B PANEL 'B	SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC I' TO NEW PANEL 'H' LOCATION. I' TO NEW PANEL 'H' LOCATION. KT OTE EIRTU-1.3 W/ (N) POWER EXHAUST *** RTU-1.5A ***	78 80 82
7 9 1 3 0 0 1 3 0 0 1 3 5 1 3 5 1 3 5 1 3 5 1 1 3 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	SPARE SPARE SPARE SPARE SPARE SPARE ANEL: H TAGE: 208 / 120 V S OF DESIGN PANEL TYPE: NOTES: CI FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** *** EF-1.8, ROOF EF-1.9, ROOF EF-1.4, TOILET 144 CONDENSATE (DFC 1.1) REC-ROOF	CKT NOTE	PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680	0.0 0.0 0.0 0.0 7 FFERSOI 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2	RE MPS/ 0LES 50 20 20 20 20 20 20	28036.2 233.6 AM PER NEM A E REM AR NEW PA EXTEND A 3 7908 * 1 6866 1 1	0 26793.2 223.3 DL ADDITIO E RATING: INCLOSURE KS: NEL WITH M CONDUITS / LOAD (' B 1 7908	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU VA) C 7908	20 20 20 VA AMPS ODEL 1 LY. CTORS	WITH FROM MPS/ DLES 10 (*** 70 (*** 70 (***	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LC PS V .9 32 .9 32 .9 32 .0 63 .0 63 .0 63 .0 63	D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360	SPARE SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC I' TO NEW PANEL 'H' LOCATION. I' TO NEW PANEL 'H' LOCATION. CKT OTE DESCRIPTION (E)RTU-1.3 W/ (N) POWER EXHAUST *** RTU-1.5A *** RTU-1.5B *** RTU-1.5B ***	78 80 82
7 9 1 3 0 1 3 6 6 7 9 1 3 5 7 7	SPARE AGE: 208 / 120 V SOF DESIGN PANEL TYPE: NOTES: CI FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** EF-1.8, ROOF EF-1.9, ROOF EF-1.9, ROOF EF-1.4, TOILET 144 CONDENSATE (DFC 1.1) REC-ROOF PLUMBING XFORMER, RR 139/141	3 PANEL	PH BOARE LOAI VA 4680 4680 4680 506 667 46.5 60	0.0 0.0 0.0 0.0 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 NELEN WI S PO 0 5 2 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2	RE MPS/ 0LES 60 20 20 20 20 20 20	28036.2 233.6 AMPER NEMAE REMAR NEW PA EXTEND A 3 7908 * 1 68866 1 1 1 6420 1 1 1 6420	0 26793.2 223.3 DL ADDITIO E RATING: NCLOSURE KS: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7027	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU VA) C 7908 6406.	20 20 20 VA AMPS ODEL 1 LY. CTORS	WITH FROM MPS/ DLES 40 (*** 70 (*** 70 (*** 70 (0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LIC PS V .9 32 .9 32 .0 63 .0 63 .0 63 .0 63 .0 63 .0 63	DAD (0 AD (0 A N 228 (228 (228 (228 (228 (228 (228 (228	SPARE SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC II' TO NEW PANEL 'H' LOCATION. II' TO NEW PANEL 'H' LOCATION. CKT OTE EXT (E)RTU-1.3 W/ (N) POWER EXHAUST *** RTU-1.5A *** RTU-1.5B *** *** RTU-1.5B *** ***	78 80 82
7 9 1 3 0 1 3 0 1 3 5 7 9 1 3 5 7 9	SPARE ARGE: 208 / 120 V SOF DESIGN PANEL TYPE: NOTES: CL FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** *** EF-1.8, ROOF EF-1.9, ROOF EF-1.9, ROOF EF-1.4, TOILET 144 CONDENSATE (DFC 1.1) REC-ROOF PLUMBING XFORMER, RR 139/141 SPARE	CKT NOTE	PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680	0.0 0.0 0.0 0.0 5FERSOI 4 0 2 39. 39. 39. 39. 39. 39. 39. 39. 39. 39.	20 20 20 20 20 20 20 20 20 20 20 20 20 2	RE MPS/ JLES 50 20 20 20 20 20 20 20 20 20 20 20 20 20	28036.2 233.6 AM PER NEM A E REM AR NEW PA EXTEND A 3 7908 * 1 6866 1 1	0 26793.2 223.3 DL ADDITIO E RATING: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7908 7027 6720	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU VA) C 7908	20 20 20 VA AMPS ODEL 1 1 LY. CTORS	WITH FROM MPS/ DLES 40 *** 70 *** 70 *** 20	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LC PS V .9 32 .9 32 .0 63 .0 63 .0 63 .0 63 .0 63 .0 63 .0 63	D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360	SPARE SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC II' TO NEW PANEL 'H' LOCATION. II' TO N	78 80 82
7 9 1 3 0 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 7 7 9 1 3 7 7 9 1 7 7 9 1 7 7 9 1 7 7 9 1 7 7 9 1 7 7 7 9 1 7 7 7 9 1 7 7 7 9 1 7 7 7 7	SPARE AGE: 208 / 120 V SOF DESIGN PANEL TYPE: NOTES: CI FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** EF-1.8, ROOF EF-1.9, ROOF EF-1.9, ROOF EF-1.4, TOILET 144 CONDENSATE (DFC 1.1) REC-ROOF PLUMBING XFORMER, RR 139/141	CKT NOTE	PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680	0.0 0.0 0.0 0.0 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2	RE MPS/ 0LES 60 20 20 20 20 20 20	28036.2 233.6 AMPER NEMAE REMAR NEW PA EXTEND A 3 7908 * 1 68866 1 1 1 6420 1 1 1 6420	0 26793.2 223.3 DL ADDITIO E RATING: NCLOSURE KS: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7027	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU VA) C 7908	20 20 20 VA AMPS ODEL 1 LY. CTORS A PC 3 5 2 2 2 2 2 2 2 2 2 2 2 2 2	WITH FROM MPS/ DLES 40 (*** 70 (*** 70 (*** 70 (0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LC PS V .9 32 .9 32 .9 32 .0 63 .0 63 .0 63 .0 63 .0 63 .0 63 .0 63 .0 63 .0 63 .0 63	D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360	SPARE SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC II' TO NEW PANEL 'H' LOCATION. II' TO NEW PANEL 'H' LOCATION. CKT OTE EXT (E)RTU-1.3 W/ (N) POWER EXHAUST *** RTU-1.5A *** RTU-1.5B *** *** RTU-1.5B *** ***	78 80 82
7 9 1 3 0 0 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3	SPARE SPARE SPARE SPARE SPARE SPARE SPARE ANEL: H TAGE: 208 / 120 V S OF DESIGN PANEL TYPE: NOTES: CI FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** *** EF-1.8, ROOF EF-1.9, ROOF EF-1.4, TOILET 144 CONDENSATE (DFC 1.1) REC-ROOF PLUMBING XFORMER, RR 139/141 SPARE SPARE	CKT NOTE	PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680	0.0 0.0 0.0 0.0 0.0 7 FERSOI 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 NELEN WI S PO 0 5 2 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2	RE MPS/ 0LES 50 20 20 20 20 20 20 20 20 20 20 20 20 20	28036.2 233.6 AMPER NEMAE REMAR NEW PA EXTEND A 3 7908 * 1 68866 1 1 1 6420 1 1 1 6420	0 26793.2 223.3 DL ADDITIO E RATING: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7908 7027 6720	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU VA) C 7908 6406.	20 20 20 VA AMPS ODEL 1 LY. CTORS A PC 2 3 5 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 20 20 2	WITH FROM MPS/ DLES 10 (*** 1 *** 1 70 (; *** 2 70 (; *** 2 70) (; *** 2 7) (; *** 2 7) (; *** 2 7) (; *** 2) (; *** 2) (; *** 2) ()) ()) ()) ()) ()) ()) ()) ()) ())	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LISHED AD LC PS V .9 32 .9 32 .0 63 .0 63	D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360	SPARE SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC I' TO NEW PANEL 'H' LOCATION. CKT OTE DESCRIPTION (E)RTU-1.3 W/ (N) POWER EXHAUST *** *** RTU-1.5A *** RTU-1.5B *** *** SPARE SPARE SPARE SPARE SPARE	78 80 82
7 9 1 3 0 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 7 7 9 1 3 5 7 7 7 7 9 1 3 5 7 7 7 7 7 9 1 3 5 7 7 7 7 7 7 7 7 7 7 7 7 7	SPARE SPARE SPARE SPARE SPARE SPARE ARE ARE 208 / 120 V S OF DESIGN PANEL TYPE: NOTES: CI FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** *** EF-1.8, ROOF EF-1.9, ROOF EF-1.4, TOILET 144 CONDENSATE (DFC 1.1) REC-ROOF PLUMBING XFORMER, RR 139/141 SPARE SPARE SPARE SPARE SPARE	CKT NOTE	PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680	0.0 0.0 0.0 0.0 0.0 0.0 0.0 4 2 39. 39. 39. 39. 39. 39. 39. 39. 39. 39.	20 20 20 20 20 20 20 20 20 20 20 20 20 2	RE MPS/ 0LES 00 20 20 20 20 20 20 20 20 20 20 20 20	28036.2 233.6 AM PER NEM A E REM AR NEW PA EXTEND A 3 7908 * 1 6866 1 1 1 6420 1 1 1 6420 1 1 1 0 1 1 1 0 1 1	0 26793.2 223.3 DL ADDITIO E RATING: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7908 7027 6720	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU VA) C 7908 6406	20 20 20 VA AMPS ODEL 1 1 LY. CTORS A PC 2 2 2 2 2 2 2 2 2 2 2 2 2	WITH FROM MPS/ DLES 40 5 40 5 70 5 70 5 70 20 6 20 20 20 20 20 20 20 20 20	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LC PS V .9 32 .9 32 .9 32 .0 63 .0 63	D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360	SPARE SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC I' TO NEW PANEL 'H' LOCATION. I' TO NEW PANEL 'H' LOCATION. I(E)RTU-1.3 W/ (N) POWER EXHAUST *** RTU-1.5A *** RTU-1.5A *** RTU-1.5B *** *** SPARE	78 80 82
7 9 1 3 0 0 1 3 5 7 9 1 1 3 5 7 9 1 1 3 5 7 9 1 1 3 5 7 9 1 1 3 5 7 7 9 1 1 3 5 7 7 9 1 1 3 5 7 7 9 1 1 3 5 7 7 9 1 1 3 5 7 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1	SPARE SPARE SPARE SPARE SPARE SPARE ANEL: H TAGE: 208 / 120 V S OF DESIGN PANEL TYPE: NOTES: CI FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** EF-1.8, ROOF EF-1.9, ROOF EF-1.9, ROOF EF-1.9, ROOF EF-1.4, TOILET 144 CONDENSATE (DFC 1.1) REC-ROOF PLUMBING XFORMER, RR 139/141 SPARE SPARE SPARE SPARE SPARE SPARE SPARE	CKT NOTE	PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4 2 39. 39. 39. 39. 39. 39. 39. 39. 39. 39.	20 20 20 20 20 20 20 20 20 20 20 20 20 2	RE MPS/ 0LES 60 20 20 20 20 20 20 20 20 20 20 20 20 20	28036.2 233.6 AMPER NEMAE REMAR NEV PA EXTEND A 3 7908 * 1 6866 1 1 1 6866 1 1 1 6420 1 1 1 6420 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0	0 26793.2 223.3 DL ADDITIO E RATING: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7908 7027 6720 0	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU VA) C 7908 6406.	20 20 20 20 VA AMPS ODEL 1 1 LY. CTORS A PC 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	WITH FROM DLES 40 (*** 0 70 (*** 1 70 (*** 1 70 (20 (20 (20 (20 (20 (20 (20 (2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LC PS V .9 32 .9 32 .9 32 .9 32 .0 63 .0 64 .0 65 .0 65	D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360	SPARE SPARE SPARE SPARE SPARE TOTAL VA TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC	78 80 82
7 9 1 3 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 1 3 5 7 9 1 1 3 5 7 9 1 1 3 5 7 9 1 1 3 5 7 9 1 1 3 5 7 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1	SPARE	CKT NOTE	PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4 2 39. 39. 39. 39. 39. 39. 39. 39. 39. 39.	20 20 20 20 20 20 20 20 20 20 20 20 20 2	RE MPS/ JLES 50 20 20 20 20 20 20 20 20 20 20 20 20 20	28036.2 233.6 AM PER NEM A E REM AR NEW PA EXTEND A 3 7908 * 1 6866 1 1 1 6420 1 1 1 6420 1 1 1 0 1 1 1 0 1 1	0 26793.2 223.3 DL ADDITIO E RATING: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7908 7027 6720 0 0	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU VA) C 7908 6406	20 20 20 20 VA AMPS ODEL 1 1 LY. CTORS A PC 2 2 2 2 2 2 2 2 2 2 2 2 2	WITH FRON MPS/ DLES 40 (** 2 40 (** 2 70 (** 2 70 (** 2 70 (20 (20 (20 (20 (20 (20 (20 (2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LC PS V .9 32 .9 32 .9 32 .0 63 .0 63	D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360	SPARE SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC Interview PANEL 'H' LOCA TION. INTERVIEW PANEL 'H' LOCA TION. CKT OTE DESCRIPTION (E)RTU-1.3 W/ (N) POWER EXHAUST *** *** *** RTU-1.5A *** RTU-1.5B *** *** SPARE SPARE SPARE	78 80 82
7 9 1 3 0 1 3 0 1 3 5 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 5 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 9 1 3 7 7 7 9 1 3 7 7 7 9 1 3 7 7 7 9 1 3 7 7 7 9 1 3 7 7 7 9 1 3 7 7 7 9 1 3 7 7 7 9 1 3 7 7 7 9 1 3 7 7 7 9 1 3 7 7 7 7 7 9 7 7 7 7 7 7 7 7 7 7 7 7 7	SPARE SPARE SPARE SPARE SPARE SPARE ANEL: H TAGE: 208 / 120 V S OF DESIGN PANEL TYPE: NOTES: CI FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** EF-1.8, ROOF EF-1.9, ROOF EF-1.9, ROOF EF-1.9, ROOF EF-1.4, TOILET 144 CONDENSATE (DFC 1.1) REC-ROOF PLUMBING XFORMER, RR 139/141 SPARE SPARE SPARE SPARE SPARE SPARE SPARE	CKT NOTE	PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4 2 39. 39. 39. 39. 39. 39. 39. 39. 39. 39.	20 20 20 20 20 20 20 20 20 20 20 20 20 2	RE MPS/ 0LES 60 20 20 20 20 20 20 20 20 20 20 20 20 20	28036.2 233.6 AMPER NEMAE REMAR NEV PA EXTEND A 3 7908 * 1 6866 1 1 1 6866 1 1 1 6420 1 1 1 6420 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0	0 26793.2 223.3 DL ADDITIO E RATING: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7908 7027 6720 0	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU VA) C 7908 6406	20 20 20 20 VA AMPS ODEL 1 1 LY. CTORS A PC 2 2 2 2 2 2 2 2 2 2 2 2 2	WITH FROM DLES 40 (*** 0 70 (*** 1 70 (*** 1 70 (20 (20 (20 (20 (20 (20 (20 (2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LC PS V .9 32 .9 32 .9 32 .9 32 .0 63 .0 63	D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360	SPARE SPARE SPARE SPARE SPARE TOTAL VA TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC	78 80 82
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7 9 7 9 13 3 C G FC KT 13 5 7 9 13 5 7 9 13 5 7 9 13 5 7 9 13 5 7 9 13 5 7 9 13 5 7 9 13 5 7 9 13 5 7 9 13 5 7 9 13 5	SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE ANEL: H TAGE: 208 / 120 V S OF DESIGN PANEL TYPE: NOTES: CI FOR PERSONNEL PROTECTION (5mA) EP FOR EQUIPMENT PROTECTION (30mA) DHANDLE, LOCKABLE BREAKER DESCRIPTION RTU-1.4 (KITCHEN) *** EF-1.8, ROOF EF-1.9, ROOF EF-1.9, ROOF EF-1.9, ROOF EF-1.9, ROOF EF-1.9, ROOF EF-1.4, TOILET 144 CONDENSATE (DFC 1.1) REC-ROOF PLUMBING XFORMER, RR 139/141 SPARE	CKT NOTE	PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680	0.0 0.0	20 21 22 23 24 25 26 27 28 29 20 21 22 23 24 25 26 27 28 29 29 20 21 22 23 24 25 26 27	RE MPS/ bLES 50 20 20 20 20 20 20 20 20 20 20 20 20 20	28036.2 233.6 AMPER AMPER NEW PA EXTEND A A A A A A A A A A A A A	0 26793.2 223.3 DL ADDITIO E RATING: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7027 6720 0 0 0	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU VA) C 7908 6406. 6540 0 0	20 20 20 20 VA AMPS ODEL 1 1 LY. CTORS 0 2 2 2 2 2 2 2 2 2 2 2 2 2	WITH FRON MPS/ DLES 10 1 1 1 20	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LC PS V .9 32 .9 32 .9 32 .9 32 .9 32 .0 63 .0 63	D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360	SPARE SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC INTO NEW PANEL 'H' LOCATION. INTO NEW PANEL 'H' LOCATION. CKT CKT CKT CERTU-1.3 W/ (N) POWER EXHAUST *** RTU-1.5A *** RTU-1.5A *** RTU-1.5B *** RTU-1.5B *** RTU-1.5B *** SPARE	78 80 82
7 9 1 3 0 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 <td>SPARE SPARE SPARE</td> <td>CKT NOTE</td> <td>PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680</td> <td>0.0 0.0</td> <td>20 20 20 20 20 20 0 20 20 20 2</td> <td>RE MPS/ LES 50 *** 20 20 20 20 20 20 20 20 20 20</td> <td>28036.2 233.6 AMPER AMPER NEW PA EXTEND A A A A A A A A A A A A A</td> <td>0 26793.2 223.3 DL ADDITIO ERATING: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7908 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU 7A) C 7908 6406. 6540 6540 0 0</td> <td>20 20 20 20 VA AMPS ODEL 1 1 LY. CTORS 0 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>WITH FROM State A C State A C State A C State A C C State A C</td> <td>0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td> <td>AD LC PS V .9 32 .9 32 .9 32 .9 32 .0 63 .0 63</td> <td>D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360</td> <td>SPARE SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC I' TO NEW PANEL 'H' LOCATION. KT OTE E E E E E E E E E E E E E E E E E</td> <td>78 80 82</td>	SPARE	CKT NOTE	PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680	0.0 0.0	20 20 20 20 20 20 0 20 20 20 2	RE MPS/ LES 50 *** 20 20 20 20 20 20 20 20 20 20	28036.2 233.6 AMPER AMPER NEW PA EXTEND A A A A A A A A A A A A A	0 26793.2 223.3 DL ADDITIO ERATING: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7908 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU 7A) C 7908 6406. 6540 6540 0 0	20 20 20 20 VA AMPS ODEL 1 1 LY. CTORS 0 2 2 2 2 2 2 2 2 2 2 2 2 2	WITH FROM State A C State A C State A C State A C C State A C	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LC PS V .9 32 .9 32 .9 32 .9 32 .0 63 .0 63	D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360	SPARE SPARE SPARE SPARE SPARE TOTAL VA MOUNTING: SURFACE PANEL AIC RATING: 10000 AIC I' TO NEW PANEL 'H' LOCATION. KT OTE E E E E E E E E E E E E E E E E E	78 80 82
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7 9 7 9 1 3 7 9 1 3 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7	SPARE	CKT NOTE	PH BOARE VA 4680 4680 4680 4680 4680 4680 4680 4680	0.0 0.0 <td>20 21 22 23 24 25 26 27 28 29 20 21 22 23 24 25 26 27 28 29 29 20 21 22 22 22</td> <td>RE MPS/ DLES 60 *** 20 20 20 20 20 20 20 20 20 20</td> <td>28036.2 233.6 AMPER AMPER NEW A REMAR NEW PA EXTEND 1 3 7908 * 1 <</td> <td>0 26793.2 223.3 DL ADDITIO ERATING: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7908 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU (A) C 7908 6406 6540 0 0 0 0 0</td> <td>20 20 20 20 VA AMPS ODEL 1 1 LY. CTORS 0 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>WITH FRON</td> <td>0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td> <td>AD LC PS V .9 32 .9 32 .9 32 .9 32 .0 63 .0 63</td> <td>D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360</td> <td>SPARE SPARE SPARE SPARE SPARE TOTAL VA TOTAL VA TOTAL VA TOTAL VA</td> <td>78 80 82</td>	20 21 22 23 24 25 26 27 28 29 20 21 22 23 24 25 26 27 28 29 29 20 21 22 22 22	RE MPS/ DLES 60 *** 20 20 20 20 20 20 20 20 20 20	28036.2 233.6 AMPER AMPER NEW A REMAR NEW PA EXTEND 1 3 7908 * 1 <	0 26793.2 223.3 DL ADDITIO ERATING: NEL WITH M CONDUITS / LOAD (' B 7908 7908 7908 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 29958.0 249.7 N AND REM 200A TYPE: AIN LUG ON AND CONDU (A) C 7908 6406 6540 0 0 0 0 0	20 20 20 20 VA AMPS ODEL 1 1 LY. CTORS 0 2 2 2 2 2 2 2 2 2 2 2 2 2	WITH FRON	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AD LC PS V .9 32 .9 32 .9 32 .9 32 .0 63 .0 63	D I PANEL 'H DAD CA N 228 228 228 360 360 360 360 360	SPARE SPARE SPARE SPARE SPARE TOTAL VA TOTAL VA TOTAL VA TOTAL VA	78 80 82



11 KV ARCHITECTS 2400 E RIVERWALK DRIVE BOISE, IDAHO 83706 WWW.LKVARCHITECTS.COM 208.336.3443 MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, Idaho 83709 208.384.0585 www.musgrovepa.com OVER 40 YEARS OF EXCELLENCE Project No. 22-104 PRELIMINARY P NOT FOR CONSTRUCTION 2/10/2023 Jefferson Elementary School Addition and Remodel Jerome, Idaho 600 N. Fillmore Street, DATE: December 9, 2022 LKV PROJECT #: -REVISIONS:

DRAWN BY: AN CHECKED BY: KL

Design Development

DRAWING NO.

E-10.0