SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR		
CD	CONDENSATE DRAIN PIPING		VERTICAL FAN COIL UNIT
CO	CLEANOUT		HODITOLITAL LINUTLIFATED
COTG	CLEANOUT TO GRADE		HORIZONTAL UNIT HEATER
CR	CONDENSATE RETURN		RECTANGULAR SUPPLY AND
CW	COLD WATER PIPING	<u></u> д ,	RETURN AIR DUCT TAKE-OFF
HW	HOT WATER PIPING	, HD	HAND DAMPER
HWRC	HOT WATER RECIRC. PIPING	<u> </u>	HAND DAWFER
LPG	LIQUID PROPANE GAS		ROUND BRANCH DUCT
OA	OUTSIDE AIR		WITH HAND DAMPER
RA	RETURN AIR		DUCT TRANSITION
T	THERMOSTAT		DUCT TRAINSTITON
SA	SUPPLY AIR	[F <sub>E</sub> ] }	TURNINGNANIEG
VTR	VENT THRU ROOF		TURNING VANES
V	VENT PIPING		DOLLNID ODIDAL DUOTINODIC
W	WASTE PIPING	7///////	ROUND SPIRAL DUCTWORK
WCO	WALL CLEANOUT		INSULATED FLEXIBLE DUCT
<del>ф</del>	BALL VALVE		INOULATED TEENIBLE DOOT
<u> </u>	— CHECK VALVE		SIDEWALL REGISTER
<b>⊸</b> ▼	— GATE VALVE		(SUPPLY AIR)
1	PLAN NOTE		SIDEWALL GRILLE (RETURN AIR)
FC 1	EQUIPMENT SYMBOL		CEILING DIFFUSER
<u> </u>	MOTORIZED DAMPER	<b>₽</b> Z	RETURN AIR GRILLE
	CEILING MOUNTED EXHAUST FAN		EXHAUST AIR GRILLE
	ROOF TOP EXHAUST FAN		

						UNI	T VEI	NTIL	OTA.	RS	CHI	EDULE	<b>-</b>	
SYM.	TYPE	% O.A.	CFM	H.P.	CHAR.	MBH TOTAL	MBH HEATING	ENT AIR	STEAM PRESS	SUP.	RET.	VALVE	TRAP	REMARKS
	VERTICAL	25%	1000	1/4	120/60/1	65	48	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1000 WITH INLET DAMPER AND STEAM HEATING COIL
$\left(\begin{array}{c} UV \\ 2 \end{array}\right)$	VERTICAL	25%	1000	1/4	120/60/1	65	48	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1000 WITH INLET DAMPER AND STEAM HEATING COIL
$\frac{\overline{UV}}{3}$	VERTICAL	25%	1000	1/4	120/60/1	65	48	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1000 WITH INLET DAMPER AND STEAM HEATING COIL
$\left(\begin{array}{c} UV \\ 4 \end{array}\right)$	VERTICAL	25%	1000	1/4	120/60/1	65	48	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1000 WITH INLET DAMPER AND STEAM HEATING COIL
$\left(\begin{array}{c} \overline{UV} \\ \overline{5} \end{array}\right)$	VERTICAL	25%	1000	1/4	120/60/1	65	48	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1000 WITH INLET DAMPER AND STEAM HEATING COIL
(UV) 6	VERTICAL	25%	1000	1/4	120/60/1	65	48	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1000 WITH INLET DAMPER AND STEAM HEATING COIL

				GRILL	F AND	REGIS	ΓFR S	CHFD	ULF
SYM.	SIZE	THROW	CFM	CONSTR.	FINISH	BRANCH DUCT	F.D.	O.B.	REMARKS
CD-1	12 x 12	4 WAY	50-450	STEEL	WHITE	10" Dia.	NO	NO	PRICE SMD WITH 24x24 LAY-IN MODULE
CD-2	9 x 9	2 WAY	50-200	STEEL	WHITE	8" Dia.	NO	NO	PRICE SMD WITH BEVELED FRAME
SR-1	18 x 10		750	STEEL	WHITE	IN DUCT	NO	NO	PRICE SDGE WITH EXTRACTION DAMPER
SR-2	12 x 2		200	STEEL	BROWN	12 x 2	NO	NO	EVERBILT E150TSB BROWN KICK GRILLE
RG-1	24 x 72		6000	STEEL	WHITE	42 x 18	NO	NO	PRICE 90 SERIES HEAVY-DUTY GYM GRILLE
RG-2	48 x 48		500-1200	STEEL	WHITE	SEE PLAN	NO	NO	PRICE 90 SERIES HEAVY-DUTY GYM GRILLE
RG-3	12 x 12		50-400	STEEL	WHITE	12 x 10	NO	NO	PRICE 535 IN 24x24 LAY-IN MODULE
RG-4	18 x 18		400-900	STEEL	WHITE	18 x 10	NO	NO	PRICE 535 IN 24x24 LAY-IN MODULE
EG-1	14 x 14		50-500	STEEL	WHITE	14 x 14	NO	NO	PRICE 535
OL-1	24 x 12		50-200	ALUM.	ANODIZED	24 x 12	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN.
OL-2	48 x 48		12,000	ALUM.	ANODIZED	48 x 48	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN.
OL-3	12 x 12		200	ALUM.	ANODIZED	10 x 6	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN.

							FUF	RNACE	SCI	HED	ULE			
SYM.	TYPE	DESIGN CFM	O.A. CFM	SP <sub>F</sub>	H.P.	CHAR.	A.C INPUT	G.A. OUTPUT	EAT	LAT	SUP	VENT	GAS TYPE	REMARKS
F 1	UP-FLOW	1950	200	.75"	1	120/60/1	110,000	106,000	65°F	108°F	3/4"	(2) 2" Dia.		LENNOX MODEL EL195UH110P60C WITH MATCHING DX COIL.

	SPLIT SYSTEM A/C UNIT SCHEDULE												
			IN	IDOOR U	NIT					OUTDOOR	RUNIT	REFRI	G. LINES
SYM.	CFM	BTU	CHAR	MCA		SYM.	BTU	MCA	SEER	CHAR	MANUFACTURER	LIQUID	SUCTION
FC 1A	600-700	30,000	208/60/1	1	MITSUBISHI MODEL PKA-A30KA WITH WALL MOUNTED CONTROLLER AND COND. PUMP	FC 1B	30,000	25	15.5	208/60/1	MITSUBISHI MODEL PUY-A30NHA3 WITH LOW AMBIENT 'HARD-START' KIT	3/8"	5/8"

SYM.	TYPE	C.F.M.	S.P.E.	WATTS	CHAR.	R.P.M.	CONTROL	REMARKS
EF 1	CEILING MOUNTED	150	.25"	100	120/60/1	710	WALL SWITCH	TWIN CITY MODEL T150 WITH 6" Dia. DUCT UP TO MODEL 634M SLOPED ROOF CAP WITH BUILT-IN BACK-DRAFT DAMPER AND BIRD SCREEN.
EF 2	CEILING MOUNTED	150	.25"	100	120/60/1	710	WALL SWITCH	TWIN CITY MODEL T150 WITH 6" Dia. DUCT UP TO MODEL 634M SLOPED ROOF CAP WITH BUILT-IN BACK-DRAFT DAMPER AND BIRD SCREEN.
EF 3	CEILING MOUNTED	150	.25"	100	120/60/1	710	WALL SWITCH	TWIN CITY MODEL T150 WITH 6" Dia. DUCT UP TO MODEL 634M SLOPED ROOF CAP WITH BUILT-IN BACK-DRAFT DAMPER AND BIRD SCREEN.
EF 4	CEILING MOUNTED	150	.25"	100	120/60/1	710	WALL SWITCH	TWIN CITY MODEL T150 WITH 6" Dia. DUCT UP TO MODEL 634M SLOPED ROOF CAP WITH BUILT-IN BACK-DRAFT DAMPER AND BIRD SCREEN.
EF 5	ROOF MOUNTED	375	.25"	1/4 HP	120/60/1	1100	TIME CLOCK	TWIN CITY MODEL 085C BCRD. MOUNT ON ROOF CURB WITH BUILT-IN BACK-DRAFT DAMPER AND BIRD SCREEN. REFER TO DETAIL D/M3.1
EF 6	ROOF MOUNTED	450	.25"	1/4 HP	120/60/1	1200	TIME CLOCK	TWIN CITY MODEL 085C BCRD. MOUNT ON ROOF CURB WITH BUILT-IN BACK-DRAFT DAMPER AND BIRD SCREEN. REFER TO DETAIL D/M3.1

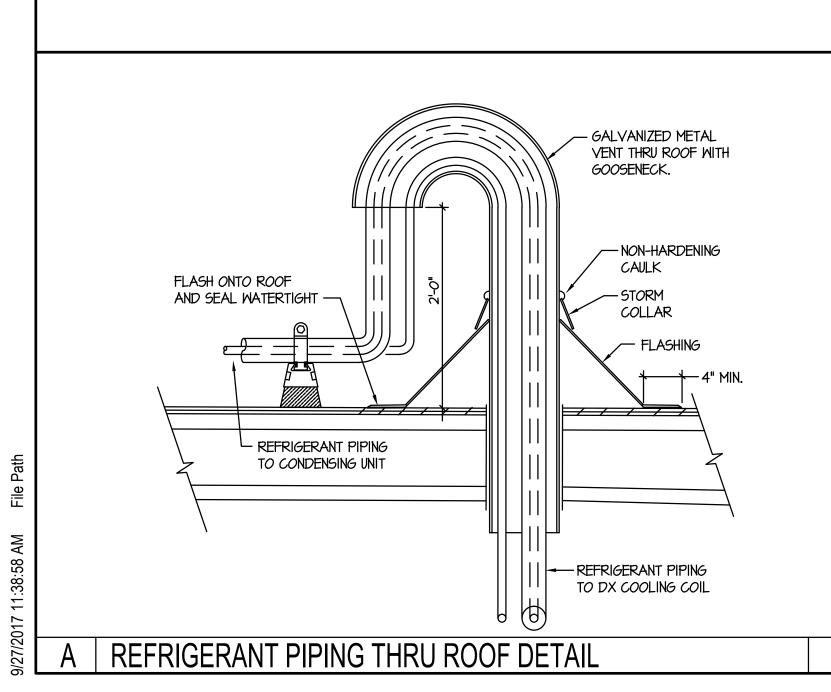
							P	\IR	HAI	NDLER	SC	HED	ULE						
CVM	TVDE		F	AN		DX COO	LING COIL	_		STEAM	COIL				PIPI	NG SIZES	3		DEMARKS
SYM.	TYPE	CFM	SPE	H.P.	CHAR	MBH	EAT	LAT	EDR	STEAM PRES	EAT	TRAP	VALVE	SUP	RET	LΩ	SUCT	CD	REMARKS
(AH)	VERTICAL	12,000	.75"	10	208/60/3	360	75°F	55°F	2160	2 psi	65°F	2" F&T	AUTO 2 POSITION	2-1/2"	2"	1-5/8"	2-1/8"	3/4"	TRANE CLIMATE CHANGER, SIZE 21 WITH MATCHING DX COOLING, STEAM
																			HEATING COIL, AND ANGLED FILTER MIXING BOX.

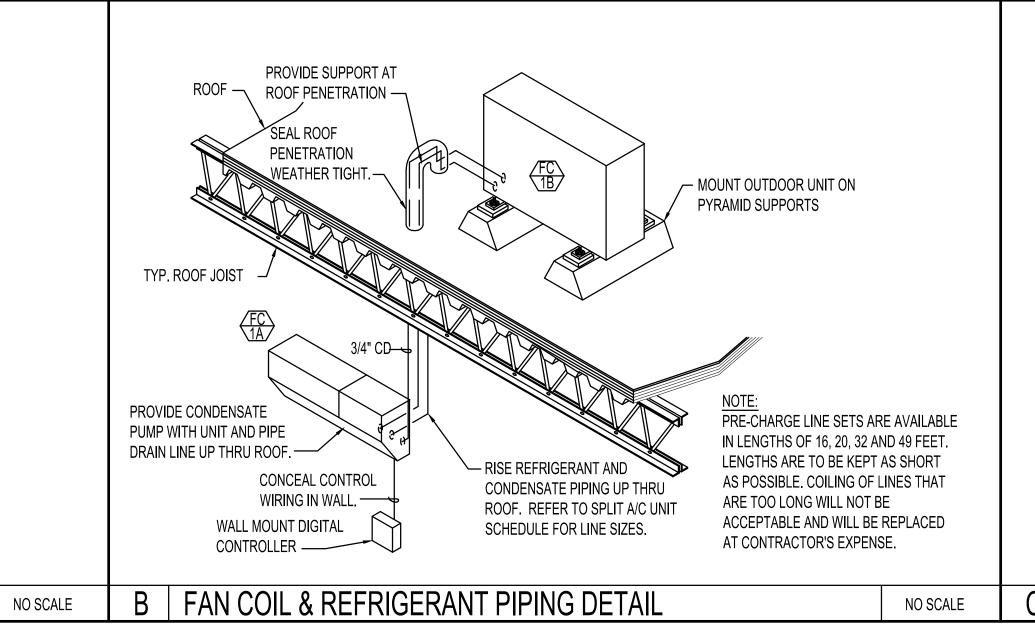
						UNI	T HEA	TER	SCH	EDUL	E		
SYM.	TYPE	CFM	CHAR.	H.P.	E.D.R.	E.A.T.	STEAM PRESS	SUP.	RET.	VALVE	TRAP	WEIGHT	REMARKS
(UH)	RECESSED CEILING	600	120/60/1	1/4	180	65°F	2 psi	3/4"	3/4"	AUTO 2 POSITION	3/4" F&T	200#	TRANE MODEL FFEB-060 RECESSED CEILING UNIT WITH STEAM HEATING COIL AND BOTTOM ACCESS PANEL
(UH) 2	RECESSED CEILING	600	120/60/1	1/4	180	65°F	2 psi	3/4"	3/4"	AUTO 2 POSITION	3/4" F&T	200#	TRANE MODEL FFEB-060 RECESSED CEILING UNIT WITH STEAM HEATING COIL AND BOTTOM ACCESS PANEL

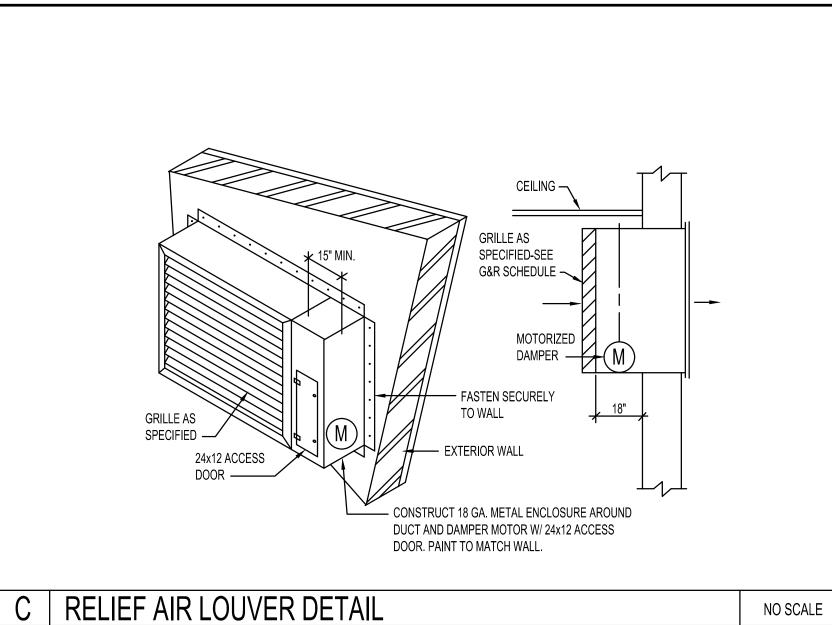
			ELEC	TRIC HEAT	ER SCHED	ULE				
SYM.	TYPE	BTU	KW	CHAR	CONTROL	REMARKS				
(EH)	RECESSED WALL MOUNTED	6824	2	208/60/1	INTEGRAL	QMARK MODEL AWH-4408 WITH AWH-S-1 SEMI-RECESSED MOUNTING FRAME				
EH 2	RECESSED WALL MOUNTED	6824	2	208/60/1	INTEGRAL	QMARK MODEL AWH-4408 WITH AWH-S-1 SEMI-RECESSED MOUNTING FRAME				
RECESSED WALL MOUNTED 6824 2 208/60/1 INTEGRAL QMARK MODEL AWH-4408 WITH AWH-S-1 SEMI-RECESSED MOUNTING FRAME										

				COI	NDENS	ING UNIT	SCHEDUI	LE
SYM.	BTU	EAT	CHAR.	MCA	WEIGHT	REFRIGER	ANT PIPING	REMARKS
OTIVI.	ыо	LAI	OHAN.	WICA	WEIGITI	LIQUID	SUCTION	INLIVIATIO
(CU)	360,000	95°F	208/60/3	122	1800#	1-5/8"	2-1/8"	TRANE RAUJ2 30 TON WITH LOW AMBIENT, 'HARD-START' KIT. MOUNT ON ROOF CURB.
(CU) 2	60,000	95°F	208/60/1	34.6	250#	3/8"	1-1/8"	LENNOX MODEL 13ACX-060 WITH LOW AMBIENT 'HARD-STAR' KIT AND HAIL GUARDS

				CO	<u>NDENSA</u>	TE P	<u>UMP SC</u>	HEDULE	
SYM.	TYPE	GPM	HEAD	H.P.	CHAR	RPM	RECEIVER SIZE	CONTROL	REMARKS
(CP)	SQUARE DUPLEX WITH 30 GALLON RECEIVING TANK	12	2'	1/2	120/60/1	1750	30 GALLON	FLOAT SWITCH	FEDERAL MODEL D.1-VCT-830-4 WITH UNIT MOUNTED CONTROL PANEL.



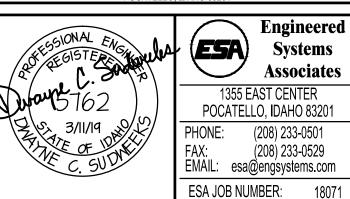




## THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONNECTIONS ON THE JOB

- SITE. ALL WORK SHALL BE EXECUTED FROM MEASUREMENTS TAKEN AT THE SITE. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CODE
- CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN INSTALLING ANY EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR.
- IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE. CEILING DIFFUSERS ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO LIGHTING PLANS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
- DUCT DIMENSIONS CALLED OUT ON DRAWINGS ARE INSIDE FREE AREA DIMENSIONS.
- ACOUSTICAL DUCT LINER ARE TO BE ADDED TO OVERALL MEASUREMENTS. ALL DUCTWORK AND PIPING WHICH PASSES THRU FIRE RATED WALLS TO BE FIRE STOPPED
- WITH APPROVED FOAM OR SEALANT. REFER TO SPECIFICATIONS FOR APPROVED

ORIGINAL DRAWING SIGNED BY: DWAYNE C. SUDWEEKS DATE ORIGINAL SIGNED: March 11, 2019 ORIGINAL ON FILE AT: ENGINEERED SYSTEMS ASSOCIATES 1355 EAST CENTER, POCATELLO, IDAHO 83201



JOE 0 1				
	\	Engi	neered	l I
4	$\mathbf{z}$	•	stems	
	ΤУ	•		
_		Asso	ciates	
13	355 E	AST CEN	ITER	
OCA	TELL	O, IDAH	O 83201	
NE:		(208) 233	3-0501	
L:	esa@	)enasvst	3-0529 ems.com	

CHECKED BY: D SUDWEEKS

GENERAL NOTES:

REVISIONS

RECHITECTURE/PLANNING / INTERIORS SCOTT L NIELSON, A.I.A. KEVIN R BODILY, A.I.A. JAMES H WYATT, A.I.A. 990 JOHN RORMS PARKWAY P.O. BOX 2212 - 108H0 FALLS, 108H0 83402-2212 (III) JOHN 5727-8779 (F) 208-522-8785 (III) nbwarchitects.com

CHOOL DISTRICT NO. 251 MENAN, IDAHO 83434

ADDITION & REMODEL FOR:

MIDWAY ELEMENTARY

FFERSON JOINT SCHOOL DISTRICT NO.
623 N 3500 E, MENAN, IDAHO 83434

SCHEDULES AND DETAILS

PROJECT NO. 16071 FEBRUARY 2019 DRAWN BY: M JENSEN

DRAWING NO.: