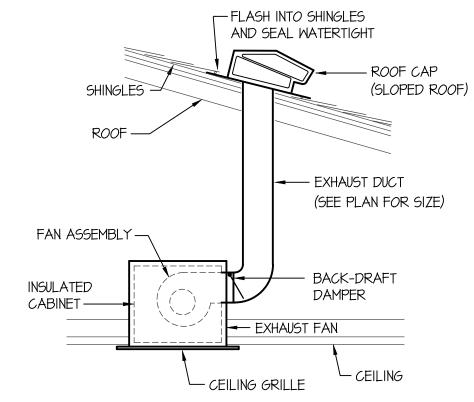
## CEILING DIFFUSER DETAIL WITH FLEXIBLE DUCT



## CEILING MOUNTED EXHAUST FAN DETAIL

	CONDENSING UNIT SCHEDULE										
SYM.	B™	EAT	CHAR.	MCA	MFS	SEER	REFR.	PIPE :	SIZING SUCTION	- REMARKS	
	48,000	89°F	240/60/1	28.9	50.0	13.0	R-410A	1/2"	7/8"	LENNOX MODEL I3ACX-048 WITH O°F LOW AMBIENT HARD START KIT.	

									FUR	NAC	CE A	ND	DX C	200	LIN	<b>5</b> CO	IL S	CHE:	DUL	E			
SYM.	TYPE	C.F.M.	SPE	SPEED	H.P.	CHAR.	INPUT	A.G.A.	@ ELEV.	E.A.T.	L.A.T.	GAS TYPE	B.T.U.	DX COC E.A.T.			LIQUID	SUCTION		SIZES NAT GAS	INTAKE	EXHAUST	REMARKS
F	UPFLOW	1800	.60"	M-HIGH	3/4	120/60/1	110,000	103,000	79,000	65°F	105°F	NAT	48,000	75°F	55°F	.25"	SEE C. UNIT SCHED.	SEE C. UNIT SCHED.	3/4"	3/4"	2" PVC		LENNOX ELI95UHIIOP48C WITH FULLY CASED R-4IOA DX COIL TO MATCH FURNACE AND VERTICAL VENT TERMINAL ASSEMBLY.

	EXHAUST FAN SCHEDULE										
SYM.	TYPE	C.F.M.	S.P.E.	WATTS	CHAR.	R.P.M.	CONTROL	REMARKS			
(FF)	CEILING MOUNTED	100	.25	87	120/60/1	710	SEE ELECT.	BROAN LOSONE SELECT MODEL LIOO WITH BACKDRAFT DAMPER. 6"¢ DUCT TO SLOPED ROOF CAP.			
(EF) 2	CEILING MOUNTED	100	.25	87	120/60/1	710	SEE ELECT.	BROAN LOSONE SELECT MODEL LIOO WITH BACKDRAFT DAMPER. 6" POUCT TO SLOPED ROOF CAP.			
EF 3	CEILING MOUNTED	100	.25	87	120/60/1	710	SEE ELECT.	BROAN LOSONE SELECT MODEL LIOO WITH BACKDRAFT DAMPER. 6" POUCT TO SLOPED ROOF CAP.			

		E	, <u>R</u>      F	AND	RFGIO	STER	3CHEDI	IJ <b>F</b>	
SYM.	TYPE	SIZE	CFM RANGE	THROW PATTERN	CONSTR.	FINISH	BALANCING DAMPER	FIRE DAMPER	REMARKS
D-I CFM	CEILING	6×6	50-100	<b>4</b> ♥	STEEL	COLOR BY ARCH.	NA	NA	PRICE MODEL SMD WITH BEVELED FRAME
D-2 CFM	CEILING	6×6	50-100		STEEL	COLOR BY ARCH.	NA	NA	PRICE MODEL SMD WITH BEVELED FRAME
D-3 CFM	CEILING	9×9	110-280		STEEL	COLOR BY ARCH.	NA	NA	PRICE MODEL SMD WITH BEVELED FRAME
D-4 CFM	CEILING	9x9	110-280		STEEL	COLOR BY ARCH.	NA	NA	PRICE MODEL SMD WITH BEVELED FRAME
D-5 CFM	CEILING	9×9	100-280		STEEL	COLOR BY ARCH.	NA	NA	PRICE MODEL SMD WITH BEVELED FRAME
R-I	CEILING	IOxIO	100-300	NA	STEEL	COLOR BY ARCH.	NA	NA	PRICE MODEL 535
R-2	CEILING	16×16	400-700	NA	STEEL	COLOR BY ARCH.	NA	NA	PRICE MODEL 535
OL-I	INTAKE LOUVER	l2xl2	100-400	NA	ALUM	COLOR BY ARCH.	NA	NA	AMERICAN WARMING LE-31 WITH INSECT SCREEN
		<del>                                     </del>	<del>                                     </del>						

MECHAN	MECHANICAL LEGEND						
SYMB0L	DESCRIPTION						
T	ELECTRONIC THERMOSTAT						
F	EQUIPMENT SYMBOL						
L	REFRIGERANT PIPING						
	THERMAL WRAPPED DUCTWORK LOCATED IN COLD ATTIC SPACE						
HD HD	HAND DAMPER						
₩ ↓	MOTORIZED DAMPER						
	SIDEWALL REGISTER SUPPLY OR RETURN AIR						
	RETURN AIR OR EXHAUST GRILLE						
	CEILING DIFFUSER						
w w	VERTICAL UPFLOW GAS FURNACE						
	CONDENSING UNIT						

SPECIAL NOTE:

ALL SUPPLY AND RETURN DUCTWORK SHOWN OUTSIDE

OF MECHANICAL ROOM TO BE RUN IN THE COLD ATTIC

SPACE. CONTRACTOR TO WRAP ALL DUCTWORK IN

COLD ATTIC SPACE WITH I-I/2" THERMAL DUCTWRAP.

D-3 150

CUBICLE #3

<u>OFFICE</u>

<u>OFFICE</u>

8"Ф SA

CUBICLE #I

8"¢ SA

12x10 RA-/

6"Φ SA <u><u></u></u>

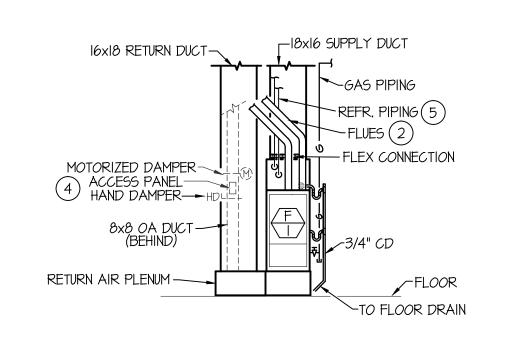
<u>RECEPTION</u>

R-2

8"Φ RA

8"Φ SA





<u>OFFICE</u>

<u>OFFICE</u>

<u>COPY</u>

**CONFERENCE** 

<u>ROOM</u>

= | 8"Φ SA | XXXXXX >

8"¢ SA | | | | |

8"Φ RA

-6"Φ SA

8"¢ RA

FURNACE F-I

9"Ø RA

8"Φ SA

TYPICAL UPFLOW FURNACE ELEVATION

NO SCALE

## PLAN NOTES:

- INSTALL FURNACE ON 12" HIGH ANGLE IRON RETURN
- AIR PLENUM. SEE DETAIL ON SHEET M-2.

  2 RISE (2) 2"\$\phi\$ FLUES FROM FURNACE UP TO VERTICAL VENT TERMINAL ASSEMBLY ON ROOF. SEE DETAIL ON

SHEET M-2. PENETRATION TO BE LOCATED NEAR

3) INSTALL OUTSIDE AIR LOUVER ON WALL AS HIGH AS POSSIBLE.

PEAK OF ROOF TO PREVENT SNOW SHEAR.

- 4 CONNECT 8x8 OUTSIDE AIR DUCT TO LOUVER AND DROP DUCT DOWN TO RETURN AIR PLENUM AND CONNECT. INSTALL MOTORIZED DAMPER, ACCESS PANEL AND HAND DAMPER IN VERTICAL PORTION OF 8x8 OA DUCT. INTERLOCK MOTORIZED DAMPER WITH FURNACE AND BALANCE HAND DAMPER TO 200 CFM
- (4) COVER EXPOSED REFRIGERANT PIPING AS SHOWN ON DETAIL ON SHEET M-2.
- RISE REFRIGERANT PIPING UP IN WALL TO ATTIC SPACE AND RUN ACROSS TO MECH. ROOM. DROP DOWN INSIDE MECH. ROOM AND CONNECT TO COOLING
- DROP 18x16 SA DUCT AND 16x18 RA DUCT DOWN THRU CEILING OF MECH. ROOM AND RUN AS HIGH AS POSSIBLE ACROSS CEILING. DROP DOWN AND CONNECT TO FURNACE AND RETURN AIR PLENUM AS SHOWN.
- RISE EXHAUST DUCT UP TO SLOPED ROOF CAP. SEE SCHEDULE ON THIS SHEET FOR DUCT SIZE AND DETAIL ON THIS SHEET.
- (8) CONDENSING UNIT TO BE INSTALLED ON 4" THICK CONCRETE PAD 6" LARGER THAN FOOTPRINT OF UNIT.
- ALL SUPPLY AND RETURN DUCTWORK SHOWN OUTSIDE OF MECHANICAL ROOM TO BE RUN IN THE COLD ATTIC SPACE. CONTRACTOR TO WRAP ALL DUCTWORK IN COLD ATTIC SPACE WITH I-I/2" THERMAL DUCTWRAP.

Stems Associates at Engineers

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chanical Engi

Dwayne Sudweeks - Ron Rice
1355 East Center - Pocatello, Idaho 8320

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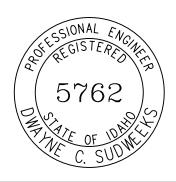
Dw 1355 Eas Phone: (208) 233-0501

CHEDULES

ROCK FABRICATION
DAO FALLS, IDAHO

MECHANICAL

SHEET TITLE:



DRWN. BY:	CKD. BY:
SR	DCS
JOB NO.	DATE:
14068	<u>JUNE 2014</u>

ORIGINAL DRAWING SIGNED BY: DWAYNE C. SUDWEEKS
DATE ORIGINAL SIGNED: Jun 30, 2014
ORIGINAL ON FILE AT ENGINEERED SYSTEMS ASSOCIATES
1355 EAST CENTER, POCATELLO, IDAHO 83201

SHEET:

OF: TWO

1/4/14068 EAGLE ROCK FAB\14068MI.dwg Jul 01, 2014 - 4:12pm