

DUCTWORK

CONSTRUCTION

LINER

AND INSULATION

DUCTWORK

SYMBOLS

LEGE

D

12/12

SYMBOL

DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)

YMBOL

LEGEND

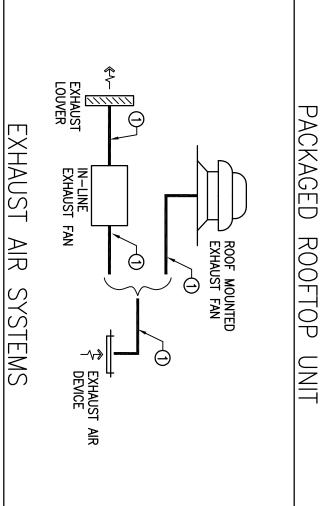
GENERAL

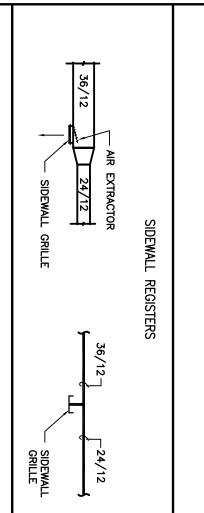
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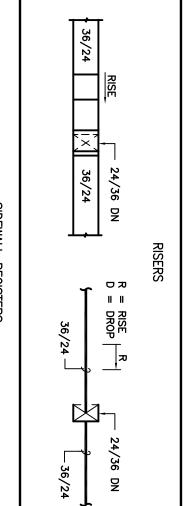
KEY NOTE TAG

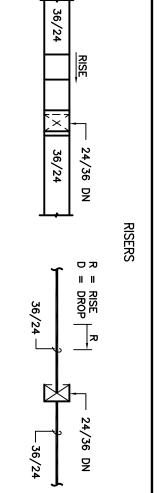
NOTE SPECIFIC TO DETAIL

TAG









SUPPLY AIR DUCTWORK

RETURN AIR AND OUTSIDE AIR DUCTWORK

EXHAUST AIR DUCTWORK

SUPPLY AIR DUCTWORK

RETURN AIR AND OUTSIDE AIR DUCTWORK THROUGH HORIZONTAL PARTITION

RETURN AIR AND OUTSIDE AIR DUCTWORK THROUGH HORIZONTAL PARTITION

FIRE DAMPER (VERTICAL)

SMOKE DAMPER (VERTICAL)

SMOKE DAMPER (HORIZONTAL)

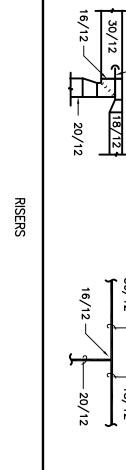
COMBINATION FIRE & SMOKE DAMPER (VERTICAL)

MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)

MOTORIZED DAMPER (SEE DAMPER SCHEDULE)

PARTITION

,	RISE		
N. 1	24/36 DN		
•	R = RISE R $D = DROP R$	RISERS	
, ,	24/36 DN		



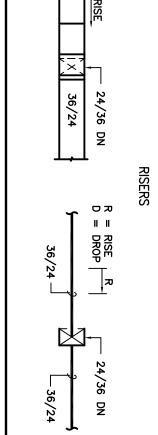
RISERS	SPLITTER DAMPER 30/12 C 18/12 16/12 20/12
	30/12 \tag{18/12} \frac{16/12}{20/12}

 \ominus

MAIN BRANCH TAKE-OFFS

		20/12 20/12
,	RISERS	
2		10/
0		16/12—
		20/12

		/12
R = RISE - R -	RISERS	16/1220/12

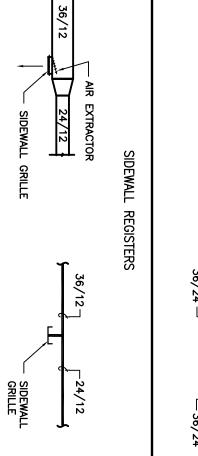


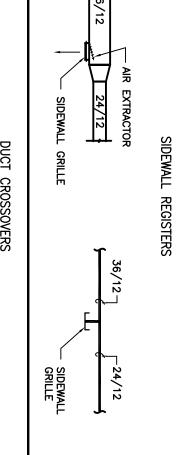
SIDEWALL	RISE 24/36 DN 24
SIDEWALL REGISTERS	R = RISE
	24/36 DN

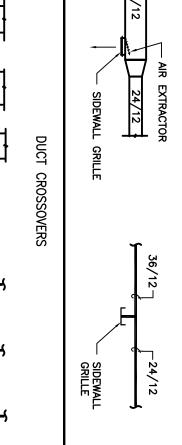
	RISE 24
SIDEWALL	24/36 DN X 36/24
SIDEWALL REGISTERS	R = RISE
	24/36 DN 24/36 DN 36/24

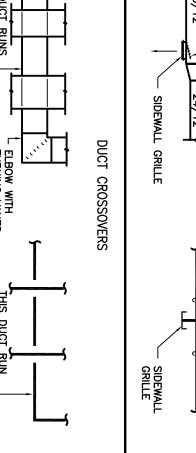
	RISE,	
SIDEWALL	24/36 DN X 36/24	2
SIDEWALL REGISTERS	R = RISE	スコンピスン
	24/36 DN	

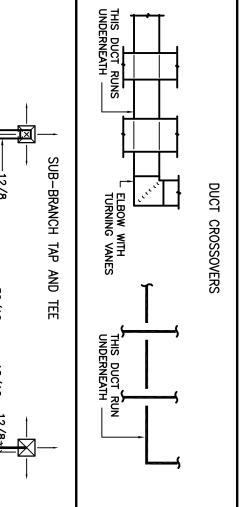
		36/24	RISE
			l IX
		×	•
SIDEV		36/24	— 24/36 DN
VALL 1	_	_	L
SIDEWALL REGISTERS	36/24 🌙		R = RISE R D = DROP R
			24/36 DN











JB-BRANCH TAP 000 CFM MAX.)	SUB-BRANCH TAP AND TEE SUB-BRANCH TAP AND TEE 12/8 30/12	DUCT RUNS TURNING VANES
18/12———————————————————————————————————	TAP AND TEE	YANES UNDERNEATH

I FGFND SYMBOLS ONE LINE DUCTWORK ONE LINE DUCTWORK	SUB-BRANCH TAP AND TEE 12 18/12 12/8 12 18/12 12/8 18/12 12/8	S DUCT RUNS TURNING VANES THIS DUCT RUN DERNEATH UNDERNEATH
)UCTWORK OLS	12/8-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	

SIZING SCHEDULE

STANDARD GRILLE

30x16	FLAT OVAL DUCTWORK	30"ø	ROUND DUCTWORK	30/16	RECTANGULAR DUCTWORK	TWO LINE DUCTWORK LEGEND	18/12———————————————————————————————————
SD DUCT MOUNTED SD SMOKE DETECTOR SD	MOTORIZED — MOTORI	MANUAL BALANCING DAMPER	D STATIC PRESSURE D	INTRUMENT TEST HOLE	FLEXIBLE DUCT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	TWO LINE DUCTWORK ONE LINE DUCTWORK SYMBOLS	12/8 30/12 18/12 12/8 12/8 18/12 12/8 12/8 18/12 SUB-BRANCH TAP (1000 CFM MAX.)

SIZE OF FLEX OR RIGID DUCT CONNECTING GRILLE TO DUCTWORK

AIR QUANTITY IN CFM TO TRAVERSE GRILLE

ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN

REGISTER OR NONSTANDARD GRILLE

DESIGNATES GRILLE TYPE (REFERENCE GRILLE SCHEDULE)

(REFERENCE TABLE BELOW)

100 A

SIZE OF FLEX OR RIGID DUCT CONNECTING GRILLE TO DUCTWORK

SIZE OF GRILLE NECK

DESIGNATES GRILLE TYPE (REFERENCE GRILLE SCHEDULE)

AIR QUANTITY IN CFM TO TRAVERSE GRILLE

ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.
ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION

GRILLE NECK SIZE

GRILLE SIZE DESIGNATION

GRILLE NECK SIZE

2

8" × 6"

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15" × 15"
16" × 16"

IJ

9" × 9"

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18" × 18"

10" × 10"
12" × 12"

1 10

20" × 20"
22" × 22"

SIDEWALL GRILLE		Θ	THERMOSTAT
G A F		<u>(S)</u>	TEMPERATURE SENSOR
		\oplus	HUMIDISTAT
		9	SMOKE DETECTOR
→	≥	AIR DEVICES	ES
-		\oplus	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
-		\boxtimes	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
<u> </u>			SUPPLY AIR GRILLE WITH THREE-WAY THROW
			SUPPLY AIR GRILLE WITH TWO-WAY THROW
			SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
 			SUPPLY AIR GRILLE WITH ONE-WAY THROW
_12/8-4			RETURN AIR GRILLE
1		4	RETURN AIR GRILLE WITH SOUND BOOT
12/8			EXHAUST AIR GRILLE
 		>	SUPPLY AIR SIDEWALL GRILLE

	SD	SMOKE DETECTOR
	AIR DEVICES	ES
	\oplus	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	\boxtimes	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	\boxtimes	SUPPLY AIR GRILLE WITH THREE—WAY THROW
	X	SUPPLY AIR GRILLE WITH TWO-WAY THROW
		SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
		SUPPLY AIR GRILLE WITH ONE-WAY THROW
		RETURN AIR GRILLE
	4	RETURN AIR GRILLE WITH SOUND BOOT
	\square	EXHAUST AIR GRILLE
	↦	SUPPLY AIR SIDEWALL GRILLE
	K ~-	RETURN AIR SIDEWALL GRILLE
	<u>20X12</u>	RETURN AIR OPENING ABOVE CEILING
	PIPING	
	,	00000

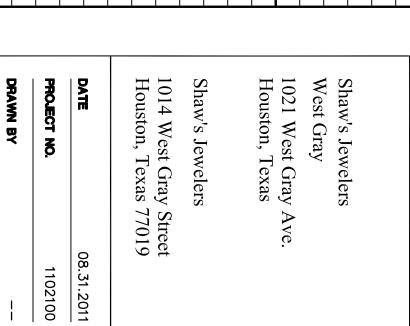
_		
	├ >>	SUPPLY AIR SIDEWALL GRILLE
	k ~	RETURN AIR SIDEWALL GRILLE
	20X12	RETURN AIR OPENING ABOVE CEILING
	PIPING	
	—D—	CONDENSATE DRAIN LINE
	— AD—	AUXILLARY CONDENSATE DRAIN LINE
	—RLR—	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
		REFRIGERANT LIQUID LINE
	—-ЭНС	REFRIGERANT HOT GAS LINE
	—RS—	REFRIGERANT SUCTION LINE
	- 6	ELBOW UP
	Ф —	ELBOW DOWN
	L ,	90° ELBOW
	†×	45° ELBOW
	+	TEE
		TEE DOWN
	40	TEE UP
	<u>—</u> ф	TOP BRANCH CONNECTION
	↓ ⊢	BOTTOM BRANCH CONNECTION
		FLANGE
<u>ا</u> 2		CAP
	\int	CONTINUATION
	0	FLOOR DRAIN (REFER TO PLUMBING DRAWINGS)
	SUBSCRIP	SUBSCRIPTS AND ABREVIATIONS
	AFF	ABOVE FINISHED FLOOR
	BBS	BELOW BOTTOM OF STRUCTURE
	BOD	BOTTOM OF DUCT
	ВОР	BOTTOM OF PIPE
	CA	COMBUSTION AIR
	CFM	CUBIC FEET PER MINUTE
	2	

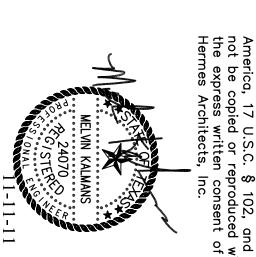
	SA	₽	O _A	NO	NC	FPM	EA
	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	NORMALLY OPEN	NORMALLY CLOSED	FEET PER MINUTE	EXHAUST AIR
NSC							

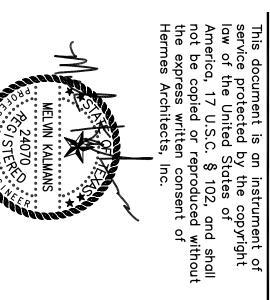
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MECHANICAL SCHEDULES CHECKED BY

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