



(EXISTING 2) 3.5-TON HEAT PUMP SPLIT SYSTEM MECHANICAL SCHEDULE											
SYMBOL	MANUFACTURER*	MODEL*	CFM (MED.)	OUTSIDE AIR	SEER	COOLING CAPACITY		HEATING CAPACITY		ELECTRICAL VOLT/PH/HZ	HSP#2
						NET MBH	NOM. MBH	NET MBH	NOM. MBH		
COND / AHU	GOODMAN	CK42-1A	1200	300	10.5	42	42	42	42	240/1/60	8.5

NEW 3.5-TON HEAT PUMP SPLIT SYSTEM MECHANICAL SCHEDULE											
SYMBOL	MANUFACTURER*	MODEL*	CFM (MJD)	OUTSIDE AIR	SEER	COOLING CAPACITY		HEATING CAPACITY		ELECTRICAL VOLT/PH/Hz	HSP#2
						NET MBH	NOM. MBH	NET MBH	NOM. MBH		
COND / AHU	GOODMAN	GL254A44210 AMST42CU130	1200	300	15.2	42	42	42	42	240/1/60	7.8

* OR APPROVED EQUAL
PROVIDE CONDENSATE DRAIN FOR ALL AHU UNITS

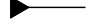
OUTDOOR AIR REQUIREMENTS (NEW ADDITION)						
SPACE	NET AREA, S.F. (B)	RM(C) *	R/D) *	SPACE DENSITY *	SPACE OCCUPANCY (F)	O.A. REQ. (C x F x B x D) **
KITCHEN AREA	246	7.5	0.12	20 PER 1000 SQ FT	8	89.52
HALL AREA	1373	5	0.06	5 PER 1000 SQ FT	14	152.38
						0
TOTAL						241.9
TOTAL OUTSIDE AIR PROVIDED ***						300
TOTAL AIR PROVIDED ****						14.00

OUTDOOR AIR REQUIREMENTS (EXISTING)						
SPACE	NET AREA, S.F. (B)	RR(C) *	R/D) *	SPACE DENSITY *	SPACE OCCUPANCY (F)	O.A. REQ. (C x F x B x D) **
HALL, AREA	3000	5	0.06	5 PER 1000 SQ FT	10	230
						0
						0
TOTAL						230
TOTAL OUTSIDE AIR PROVIDED ***						300
TOTAL AIR PROVIDED ****						16,00

* TABLE 6-1, ASHRAE 62.1-2010.
 ** $VR = RP \times P + RZ \times A$ (PER ASHRAE 62.1-2010)
 *** PROVIDED BY OUTSIDE AIR INTAKES

			EXHAUST FAN SCHEDULE					
SYMBOL	MANUFACTURER*	MODEL*	CFM	S.P. H2O	DRIVE	HP	ELECTRICAL VOLT/PH/HZ	COMMENTS
EXHAUST FAN (F1)	BROAN	TBD	50	1/4	CENTRIFUGAL	0.135	120/1/60	SWITCH SEPARATELY, 4" DUCT, TERMINATE OUTSIDE WITH BACKDRAFT DAMPER.
EXHAUST FAN (F2)	BROAN	TBD	100	1/4	CENTRIFUGAL	0.2	120/1/60	SWITCH SEPARATELY, 4" DUCT, TERMINATE OUTSIDE WITH BACKDRAFT DAMPER.

* OR APPROVED EQUAL

MECHANICAL SYMBOLS		ABBREVIATIONS	
	SUPPLY REGISTER, METAL, WHITE FINISH.	CD	CEILING DIFFUSER
	SUPPLY REGISTER ON WALL METAL, WHITE FINISH.	COND	CONDENSATE
	RETURN GRILLE , METAL, WHITE FINISH.	CFM	CUBIC FEET PER MINUTE
	RETURN GRILLE ON WALL BOTTOM , METAL, WHITE FINISH.	CLG	CEILING
	PROGRAMMABLE THERMOSTAT, HONEYWELL 8300 OR EQUAL, 54" A.F.F.	CR	CEILING REGISTER
	EXHAUST FAN - SEE SPECIFICATIONS ON SCHEDULE BELOW. MECHANICALLY VENTED TO THE OUTSIDE.	DB	DRY BULB
	SUPPLY FLEXIBLE DUCTWORK (BUILDING STANDARD)	DN	DOWN
	RECTANGULAR DUCTWORK (BUILDING STANDARD)	(E)	EXISTING
	VOLUME DAMPER	EF	EXHAUST FAN
	FIRE DAMPER	ER	EXISTING RELOCATED
	PROGRAMMABLE THERMOSTAT	ESP	EXTERNAL STATIC PRESSURE
	DOOR UNDER-CUT 3/4" MIN.	ETR	EXISTING TO RELOCATE
	RETURN/EXHAUST AIR	GAL	GALLONS
		(N)	NEW
		OBD	OPPOSED BLADE DAMPER
		R	REMOVE
		RR	REMOVE AND RELOCATE
		SP	STATIC PRESSURE
		T'STAT	THERMOSTAT
		TYP	TYPICAL
		VTO	VENT TO OUTSIDE
		VD	VOLUME DAMPER
		FL	FLOOR

AIR DEVICES SCHEDULE					
CFM RANGE	LISTED SIZE	FACE SIZE	NC MAX.	MODEL	REMARKS
0-75	2 X 12	3-1/8 X 13-1/5	30	LIMA MODEL 875	REGISTER IN KICK PLATE UNDER SINK
0-50	6X6	7-1/2 X 7-1/2	30	LIMA SERIES 600	WALL AND CEILING DIFFUSER
51-100	8X6	9-1/2 X 9-1/2	30	LIMA SERIES 600	WALL AND CEILING DIFFUSER
101-150	12X6	13-1/2 X 7-1/2	30	LIMA SERIES 600	WALL AND CEILING DIFFUSER
151-250	14X8	15-1/2 X 9-1/2	30	LIMA SERIES 600	WALL AND CEILING DIFFUSER
0-125	2-1/2 X 12	4-7/8 X 13-7/8	30	LIMA SERIES 667	FLOOR DIFFUSER
126-250	4 X 14	6-7/8 X 15-7/8	30	LIMA SERIES 667	FLOOR DIFFUSER
0-600	10 X 10	12 X 12	30	LIMA STEEL FILTERED GRILLE 60G	WALL/CEILING GRILLE
0-1500	22 X 22	24 X 24	30	LIMA STEEL FILTERED GRILLE 60G	WALL/CEILING GRILLE

NOTES:

① ALL CEILING DIFFUSER TO BE PROVIDED WITH:
A. SQUARE TO ROUND NECK TRANSITION.
B. OPPOSED BLADE DAMPER.

② SEE ARCH. REFLECTED CEILING PLAN FOR DIFFUSER AND REGISTER FOR EXACT LOCATION.

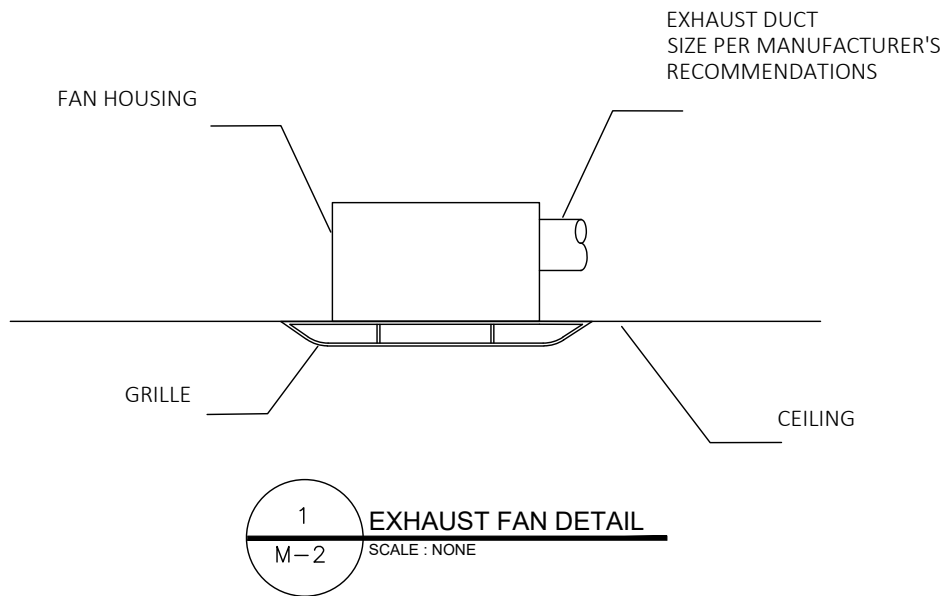
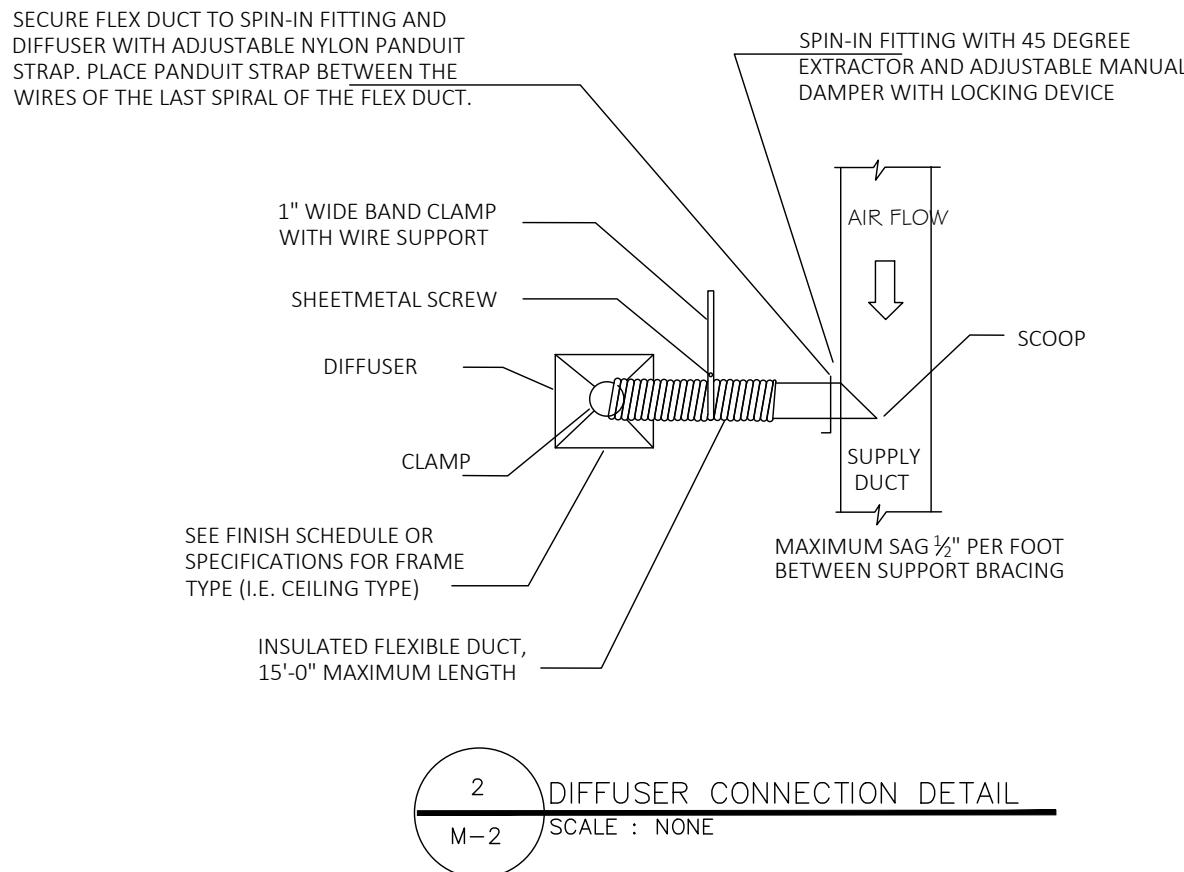
MECHANICAL NOTES AND SPECIFICATIONS

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM TO INCLUDE ALL LABOR MATERIALS, TOOLS, AND EQUIPMENT FOR A COMPLETE AND FUNCTIONAL SYSTEM INCLUDING ALL NECESSARY APPURTENANCES CUSTOMARILY INCLUDED IF NOT NECESSARILY CALLED OUT.
2. DEVIATION FROM MATERIALS, METHODS, AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING. APPROVAL WILL NOT BE GIVEN UNLESS THE PROPOSED SYSTEM IS EQUAL IN PERFORMANCE, DURABILITY, LONGEVITY, AND RELIABILITY TO THAT SPECIFIED.
3. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES, LAWS, AND ORDINANCES.
4. THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND THE CONDITIONS, AND SHALL VERIFY DIMENSIONS AND CLEARANCES AND BE ASSURED THAT THE EQUIPMENT PURCHASED WILL FIT INTO THE AVAILABLE SPACE.
5. SUBMISSION OF A BID OR PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS, SPECIFICATIONS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO BIDS FOR MATERIALS AND/OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN THOUGH PROPER EXAMINATION HAD BEEN MADE.
6. THE CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS BEFORE FABRICATING OR INSTALLING DUCTWORK OR EQUIPMENT TO AVOID ANY CONFLICTS.
7. ALL HARD DUCTWORK SHALL BE FABRICATED OF STEEL OF THICKNESS AND GAUGES TO CONFORM TO SMACNA DUCT CONSTRUCTION STANDARDS (RECTANGULAR OR EQUIVALENT ROUND).
8. ALL DUCTS SHALL BE AIRTIGHT, FREE OF LEAKS, AND SHALL BE INSPECTED FOR LEAKS PRIOR TO INSTALLATION OF FINISHED CEILING SYSTEM.
9. DUCTWORK, DAMPERS, LOUVERS, DIFFUSERS, AND OTHER DISTRIBUTION EQUIPMENT AND MATERIALS SHALL CONFORM TO THE FOLLOWING:
 - A. ASHRAE/ANSI E. AMCA STANDARD HANDBOX 99
 - B. SBCCI/ASME F. AIR DIFFUSION COUNCIL TEST CODE 1062R3
 - C. SMACNA G. ANY LOCAL CODES NOT COVERED ABOVE
 - D. NFPA
10. ALL DUCT SIZES ARE CLEAR NET INSIDE DIMENSIONS.
11. ALL DUCTWORK SHALL BE CONTINUOUS WELDED, LEAK-FREE, STEEL CONSTRUCTION CONFORMING TO SMACNA CODES. ACCESS PANELS INSTALLED NEAR ELBOWS TO FACILITATE CLEANING.
12. ALL MAKE-UP AIR DUCTWORK SHALL BE INSULATED WITH 1-1/2", 3/4# DENSITY FOIL-BACKED EXTERNAL INSULATION.
13. MANUAL DAMPERS SHALL BE INCLUDED IN OUTSIDE AIR INTAKE DUCTS TO REGULATE OUTSIDE AIR TO EQUIPMENT.
14. ALL INSULATING MATERIAL SHALL HAVE A COMPOSITE FLAME SPREAD INDEX OF 25, AND SMOKE DEVELOPED INDEX OF 50 (ASTM E-84, NFPA 255 & UL 723).
15. APPLICABLE FIRE DAMPERS SHALL BE RUSKIN MODEL D-IBD2 STYLE "B" OR APPROVED EQUAL WITH A 1-1/2 HOUR RATING.
16. BALANCE ALL AIR SYSTEMS TO PRODUCE THE VOLUMES AND QUANTITIES SHOWN ON THE DRAWINGS OR SPECIFIED.
17. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL CHARACTERISTICS WITH ELECTRICAL DRAWINGS BEFORE PURCHASING EQUIPMENT.

NOTES:

1. THE HVAC SYSTEM FOR THIS BUILDING CONSIST OF (EXISTING 2) 3.5-TON HEAT PUMP SPLIT SYSTEM AND A NEW 3.5 TON HEAT PUMP SPLIT SYSTEM, WITH THE CONDENSER OUTSIDE ON A 4" THICK LEVEL PAD, AND THE HORIZONTAL FLOW AIR-HANDLER UNIT ON A PLATFORM AS SHOWN.
2. RETURN AIR FILTER WILL BE AT THE AHU.
3. INSTALL FUSIBLE LINK FIRE DAMPER ON CLOTHES DRYER DUCT.
4. HVAC DUCTWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AIR CONDITIONING CONTRACTORS OF AMERICA (ACCA) DUCT SIZING CALCULATION BASED ON A FRICTION LOSS OF 0.1. THE FOLLOWING CHART IS BASED ON THE ACCA MANUAL:

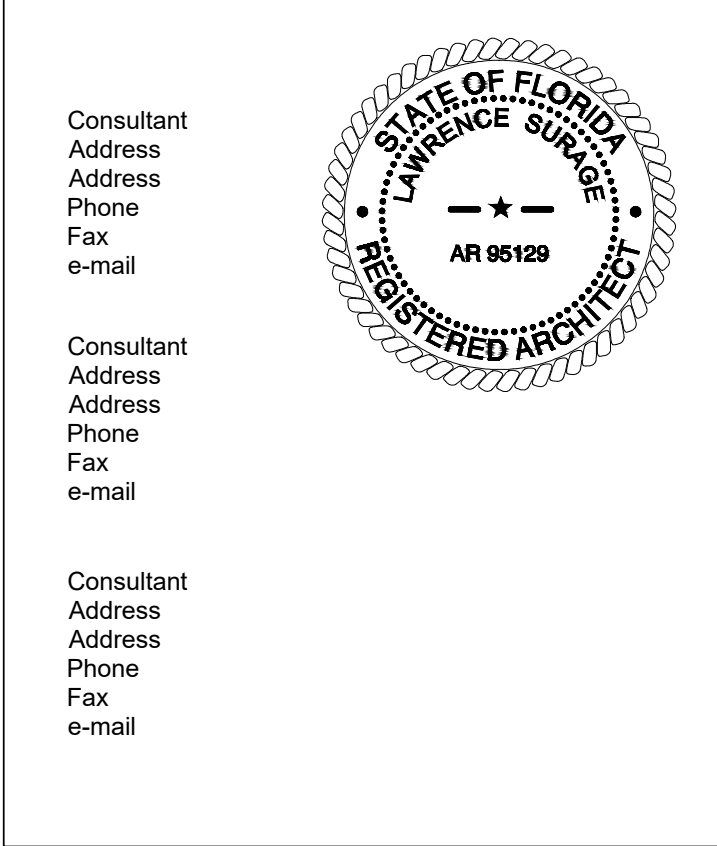
PIPE DIAMETER	FLEX PIPE CFM
6"	0 - 100
8"	101 - 250
10"	251 - 400
12"	401 - 700
14"	701 - 1,000
16"	1,000 - 1,500



400 NW 7th Ave #14310 Ft.
Lauderdale, FL 33311.

RENOVATION

2371 NW 2ND ST,
POMPANO BEACH,
FL 33069.



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The seal is circular with a rope-like border. Inside the border, the text "STATE OF FLORIDA" is at the top, "LAWRENCE SURGE" is at the bottom, and "REGISTERED ARCHITECT" is on the right side. In the center, there is a horizontal line with a five-pointed star above it. Below the star, the text "AR 06129" is written.

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The seal is circular with a rope-like border. Inside the border, the text "STATE OF FLORIDA" is at the top, "LAWRENCE SURGE" is at the bottom, and "REGISTERED ARCHITECT" is at the very bottom. In the center, there is a horizontal line with a five-pointed star above it. Below the star, the text "AR 06129" is written.

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The seal is circular with a rope-like border. Inside the border, the text "STATE OF FLORIDA" is at the top, "LAWRENCE SURGE" is at the bottom, and "REGISTERED ARCHITECT" is along the right side. In the center, there is a horizontal line with a five-pointed star above it, and the number "AR 06129" is below the line.[illegible]

HOUSE OF GOD

MECHANICAL DETAILS

Project number	P-78482
Date	10-23-2025
Drawn by	DONDIEGO MAURICE
Checked by	

M 100

M 100

Scale	NTS
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