Load Short Form
Whole House
WebREPS, LLC

WebREPS
1-800-810-3280

Job: 1234 5th Street
Date: March 32nd, 2023
By: Craig C Brooks
Plan: 1234 5th Street

1880 82nd Avenue Suite # 203, Vero Beach, FL 32960 Phone: 800-810-3280 Fax: 888-971-2999 Email: manual j@webrepsusa.com License: CAC054709

Project Information

For: Sample
1234 5th Street, Anywhere, FL 32109
Phone: 777-777-7777
Email: Coolhouse@rucool.net

Design Information

	Htg	Clg
Outside db (°F)	41	93
Inside db (°F)	70	72
Design TD (°F)	29	21
Daily range	-	M
Inside humidity (%)	30	50
Moisture difference (gr/lb)	2	47

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

HEATING EQUIPMENT

Make	Trane
Trade	TRANE
Model	4TWR7060A1
AHRI ref	207821009

Efficiency	9.25 HSPF	
Heating input		
Heating output	54500	Btuh @ 47°F
Temperature rise	26	°F
Actual air flow	1883	cfm
Air flow factor	0.060	cfm/Btuh
Static pressure	0.[illegible]	in H2O
Space thermostat		

Capacity balance point = 29 °F

Backup: TRANE
Input = 10 kW, Output = 3412[illegible]Btuh [illegible]% AFUE

COOLING EQUIPMENT

Make	Trane
Trade	TRANE
Cond	4TWR7060A1
Coil	TEM6B0C60H51++TDR
AHRI ref	207821009

Efficiency	11.7 EER, 16 SEER	
Sensible cooling	39550	Btuh
Latent cooling	16950	Btuh
Total cooling	56500	Btuh
Actual air flow	1883	cfm
Air flow factor	0.051	cfm/Btuh
Static pressure	0.60	in H2O
Load sensible heat ratio	0.70	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
M WIC	78	2615	1259	156	64
MSTR SUITE	244	4754	5738	284	294
WC	18	512	250	31	13
M BATH	95	1034	688	62	35
BEDROOM 4	119	1745	2697	104	138
BATH	57	1008	848	60	43
DINING	166	4649	6314	278	323
KITCHEN	229	2427	4092	145	209
BR4 C	17	0	0	0	0
LIN	5	0	0	0	0
FAMILY	201	228	2408	14	123
UTILITY	55	1835	1660	110	85
LIVING	170	1002	2579	60	132
BEDROOM 3	137	2116	2881	126	147

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

BR3 CL	13	0	0	0	0
HALL	23	0	0	0	0
BEDROOM 2	152	5346	4049	319	207
BR2 CL	24	0	0	0	0
FOYER	99	2275	1332	136	68
L	6	0	0	0	0
Whole House	1905	31545	34644	1883	1883
Other equip loads		3349	3878		
Equip. @ 1.00 RSM			38522		
Latent cooling			16370		
TOTALS	1905	34894	54892	1883	1883

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Notes: 1234 5th Street, Anywhere, FL 32109

Design Information

Weather: Orlando Sanford Intl, FL, US

Winter Design Conditions

Outside db	41	°F
Inside db	70	°F
Design TD	29	°F

Summer Design Conditions

Outside db	93	°F
Inside db	72	°F
Design TD	21	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	47	gr/lb

Heating Summary

Structure	22086	Btuh
Ducts	9459	Btuh
Central vent (95 cfm)	3024	Btuh
Outside air		
Humidification	325	Btuh
Piping	0	Btuh
Equipment load	34894	Btuh

Sensible Cooling Equipment Load Sizing

Structure	24485	Btuh
Ducts	10159	Btuh
Central vent (95 cfm)	2172	Btuh
Outside air		
Blower	1707	Btuh
Use manufacturer's data	y	
Rate/swing multiplier	1.00	
Equipment sensible load	38522	Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	1905	1905
Volume (ft³)	17147	17147
Air changes/hour	0.07	0.07
Equiv. AVF (cfm)	20	20

Latent Cooling Equipment Load Sizing

Structure	10739	Btuh
Ducts	2606	Btuh
Central vent (95 cfm)	3025	Btuh
Outside air		
Equipment latent load	16370	Btuh
Equipment Total Load (Sen+Lat)	54892	Btuh
Req. total capacity at 0.70 SHR	4.6	ton

Heating Equipment Summary

Make	Trane
Trade	TRANE
Model	4TWR7060A1
AHRI ref	207821009

Efficiency	9.25 HSPF	
Heating input		
Heating output	54500	Btuh @ 47°F
Temperature rise	26	°F
Actual air flow	1883	cfm
Air flow factor	0.060	cfm/Btuh
Static pressure	0.60	in H2O
Space thermostat		

Capacity balance point = 29 °F

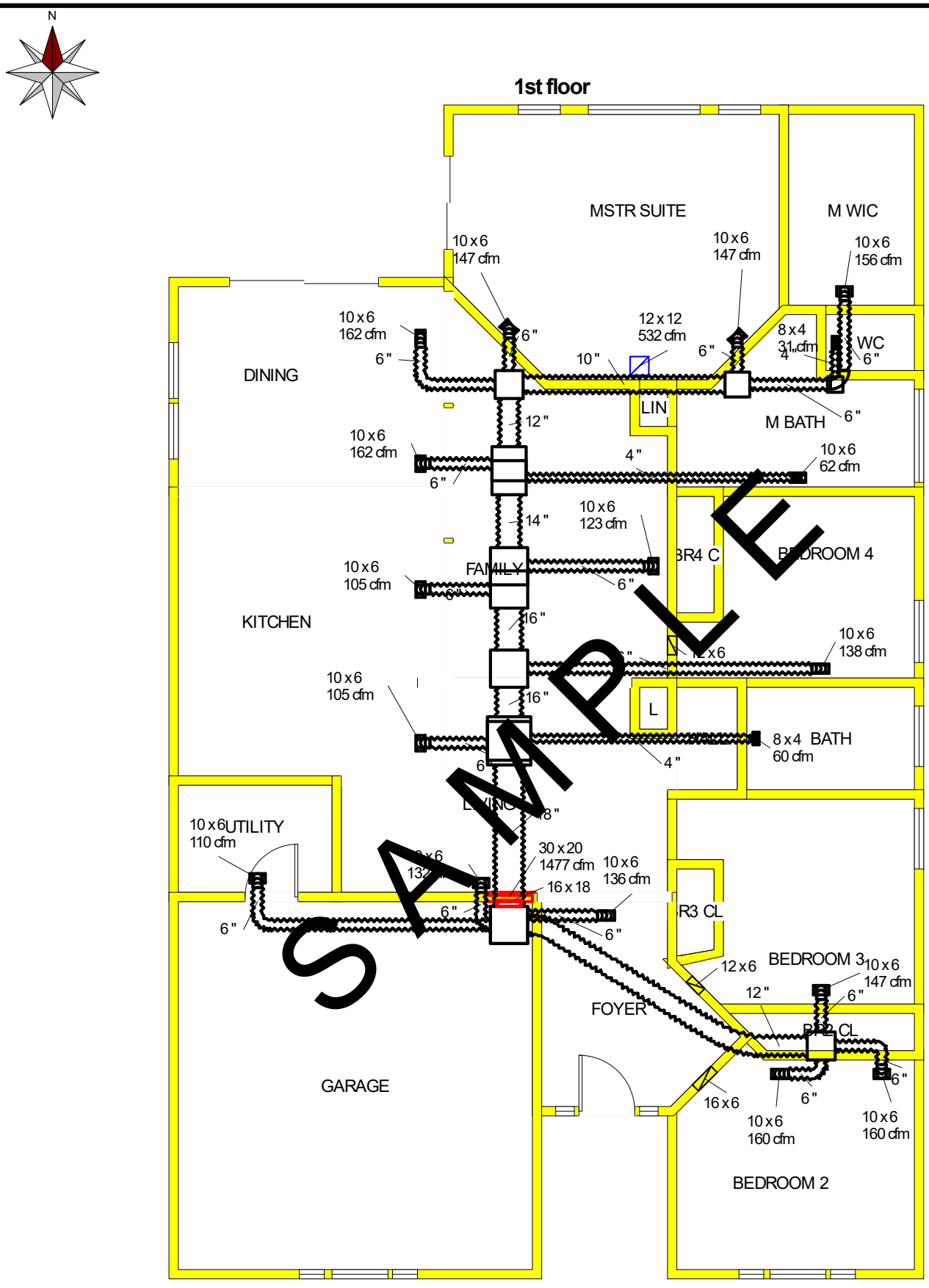
Backup: TRANE
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

Cooling Equipment Summary

Make	Trane
Trade	TRANE
Cond	4TWR7060A1
Coil	TEM6B0C60H51++TDR
AHRI ref	207821009

Efficiency	11.7 EER, 16 SEER	
Sensible cooling	39550	Btuh
Latent cooling	16950	Btuh
Total cooling	56500	Btuh
Actual air flow	1883	cfm
Air flow factor	0.051	cfm/Btuh
Static pressure	0.60	in H2O
Load sensible heat ratio	0.70	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Job #: 1234 5th Street
Performed by Craig C Brooks for:
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Anywhere, FL 32109
Phone: 777-777-7777
Coolhouse@rucool.net

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1880 82nd Avenue Suite # 203
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Scale: 1 : 91

Right-Suite® Universal 2022
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Duct System Summary
Whole House
WebREPS, LLC

Job: 1234 5th Street
Date: March 32nd, 2023
By: Craig C Brooks
Plan: 1234 5th Street

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Project Information

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Phone: 777-777-7777
Email: Coolhouse@rucool.net

	Heating	Cooling
External static pressure	0.60 in H2O	0.60 in H2O
Pressure losses	0.23 in H2O	0.23 in H2O
Available static pressure	0.37 in H2O	0.37 in H2O
Supply / return available pressure	0.343 / 0.027 in H2O	0.343 / 0.027 in H2O
Lowest friction rate	0.045 in/100ft	0.045 in/100ft
Actual air flow	1883 cfm	1883 cfm
Total effective length (TEL)	815 ft	

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
BATH	h	1008	60	43	0.182	4.0	0x 0	VIFx	23.3	165.0	st1
BEDROOM 2	h	2673	160	104	0.239	6.0	0x 0	VIFx	23.3	120.0	st2
BEDROOM 2-A	h	2673	160	104	0.241	6.0	0x 0	VIFx	22.3	120.0	st2
BEDROOM 3	c	2881	126	147	0.234	6.0	0x 0	VIFx	21.6	115.0	st2
BEDROOM 4	c	2697	104	138	0.229	6.0	0x 0	VIFx	30.5	235.0	st1A
DINING	c	3157	139	162	0.096	6.0	0x 0	VIFx	36.3	570.0	st1D
DINING-A	c	3157	139	162	0.065	6.0	0x 0	VIFx	29.5	495.0	st1C
FAMILY	c	2408	14	123	0.087	6.0	0x 0	VIFx	27.0	365.0	st1B
FOYER	h	2275	136	68	0.615	6.0	0x 0	VIFx	5.7	50.0	
KITCHEN	c	2046	72	105	0.105	6.0	0x 0	VIFx	22.8	305.0	st1B
KITCHEN-A	c	2046	72	105	0.287	6.0	0x 0	VIFx	14.5	105.0	st1
LIVING	c	2579	60	132	0.637	6.0	0x 0	VIFx	3.8	50.0	
M BATH	h	103	62	35	0.072	4.0	0x 0	VIFx	39.5	435.0	st1C
M WIC	h	261	15	64	0.045	6.0	0x 0	VIFx	52.0	702.0	st3A
MSTR SUITE	c	2869	142	147	0.057	6.0	0x 0	VIFx	32.0	565.0	st1D
MSTR SUITE-A	c	2869	142	147	0.051	6.0	0x 0	VIFx	43.8	625.0	st3
UTILITY	h	1835	110	85	0.519	6.0	0x 0	VIFx	16.0	50.0	
WC	h	512	31	13	0.046	4.0	0x 0	VIFx	48.8	695.0	st3A

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1A	Peak AVF	1000	1095	0.045	784	16.0	0 x 0	VinlFlx	st1
st1	Peak AVF	1133	1243	0.045	704	18.0	0 x 0	VinlFlx	
st1B	Peak AVF	896	957	0.045	686	16.0	0 x 0	VinlFlx	st1A
st1C	Peak AVF	810	729	0.045	758	14.0	0 x 0	VinlFlx	st1B
st1D	Peak AVF	609	533	0.045	776	12.0	0 x 0	VinlFlx	st1C
st3A	Peak AVF	187	77	0.045	951	6.0	0 x 0	VinlFlx	st3
st3	Peak AVF	329	224	0.045	603	10.0	0 x 0	VinlFlx	st1D
st2	Peak AVF	445	355	0.239	567	12.0	0 x 0	VinlFlx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x 0	1351	1477	60.5	0.045	739	21.5	18x 16		VlFx	
rb6	0x 0	532	406	0	0	0	0	0		VlFx	