

### Project Information

For:

	Heating	Cooling
External static pressure	0.60 in H2O	0.60 in H2O
Pressure losses	0.24 in H2O	0.24 in H2O
Available static pressure	0.36 in H2O	0.36 in H2O
Supply / return available pressure	0.250 / 0.110 in H2O	0.250 / 0.110 in H2O
Lowest friction rate	0.095 in/100ft	0.095 in/100ft
Actual air flow	1317 cfm	1317 cfm
Total effective length (TEL)	379 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
Entry	h 895	64	40	0.146	5.0	0x0	VIFx	21.4	150.0	st17
GR DR Kit	c 2431	90	126	0.095	6.0	0x0	VIFx	53.4	210.0	st18
GR DR Kit-A	c 2431	90	126	0.096	6.0	0x0	VIFx	51.5	210.0	st18
GR DR Kit-B	c 2431	90	126	0.139	6.0	0x0	VIFx	35.0	145.0	st5
GR DR Kit-C	c 2431	90	126	0.105	6.0	0x0	VIFx	44.2	195.0	st18
GR DR Kit-D	c 2431	90	126	0.148	6.0	0x0	VIFx	24.0	145.0	st5
Living Rm	c 3668	166	190	0.175	8.0	0x0	VIFx	13.1	130.0	st4
Master Bed	h 1978	142	110	0.097	7.0	0x0	VIFx	46.8	210.0	st16
Master Bed-A	h 1978	142	110	0.105	7.0	0x0	VIFx	37.7	200.0	st16
Mbath	h 1205	87	76	0.140	5.0	0x0	VIFx	24.2	155.0	st15
mclst	h 1530	110	45	0.162	6.0	0x0	VIFx	14.0	140.0	st3
mclst b	h 690	50	29	0.170	4.0	0x0	VIFx	12.2	135.0	st3
mclst c	c 281	4	15	0.130	4.0	0x0	VIFx	28.1	165.0	st15
mwc	h 342	25	18	0.102	4.0	0x0	VIFx	39.6	205.0	st16
pnty	h 1026	74	38	0.135	5.0	0x0	VIFx	29.7	155.0	st17
pwdr	c 368	3	19	0.129	4.0	0x0	VIFx	29.0	165.0	st17

## Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st16	Peak AVF	309	238	0.097	566	10.0	0 x 0	VinlFix	st15
st15	Peak AVF	399	328	0.097	508	12.0	0 x 0	VinlFix	st3
st3	Peak AVF	558	401	0.097	522	14.0	0 x 0	VinlFix	
st17	Peak AVF	141	96	0.129	526	7.0	0 x 0	VinlFix	st4
st4	Peak AVF	307	286	0.129	562	10.0	0 x 0	VinlFix	
st18	Peak AVF	271	377	0.095	692	10.0	0 x 0	VinlFix	st5
st5	Peak AVF	452	629	0.095	588	14.0	0 x 0	VinlFix	

## 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	0x0	1010	1030	115.5	0.095	583	18.0	0x 0		VIFx	
rb4	0x0	307	286	90.8	0.121	562	10.0	0x 0		VIFx	

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Pressure losses	0.24 in H2O	0.24 in H2O
Available static pressure	0.36 in H2O	0.36 in H2O
Supply / return available pressure	0.246 / 0.114 in H2O	0.246 / 0.114 in H2O
Lowest friction rate	0.063 in/100ft	0.063 in/100ft
Actual air flow	933 cfm	933 cfm
Total effective length (TEL)	568 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 2	h 831	51	35	0.089	4.0	0x0	VIFx	21.0	255.0	st12
Bath 3	h 860	53	26	0.091	4.0	0x0	VIFx	24.4	245.0	st9
Bath 4	h 339	21	9	0.074	4.0	0x0	VIFx	43.2	290.0	st7
Bed 2	h 1647	101	91	0.089	6.0	0x0	VIFx	21.7	255.0	st12
Bed 2-A	h 1647	101	91	0.096	6.0	0x0	VIFx	14.6	240.0	st12
Bed 3	c 2776	91	149	0.131	7.0	0x0	VIFx	11.9	175.0	st1
Bed 4	c 2023	107	109	0.078	6.0	0x0	VIFx	33.7	280.0	st10
Clst3	c 298	5	16	0.099	4.0	0x0	VIFx	18.5	230.0	st9
DR2	h 541	33	17	0.096	4.0	0x0	VIFx	17.1	240.0	st12
DR3	h 397	24	13	0.098	4.0	0x0	VIFx	21.5	230.0	st9
DR4	h 431	26	12	0.079	4.0	0x0	VIFx	35.5	275.0	st10
GR clst	c 247	4	13	0.074	4.0	0x0	VIFx	41.9	290.0	st7
Game Rm	c 2003	83	108	0.093	6.0	0x0	VIFx	29.5	235.0	st6
Game Rm-A	c 2003	83	108	0.093	6.0	0x0	VIFx	28.5	235.0	st6
Ldry	h 1492	91	70	0.063	5.0	0x0	VIFx	62.2	325.0	st8
Mud Rm	h 570	35	27	0.067	4.0	0x0	VIFx	52.5	315.0	st8
clst2	c 282	3	15	0.119	4.0	0x0	VIFx	7.0	200.0	st11
clst4	c 220	3	12	0.076	4.0	0x0	VIFx	38.5	285.0	st10
wc2	h 321	20	13	0.112	4.0	0x0	VIFx	15.1	205.0	st11

## Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st10	PeakAVF	136	132	0.076	510	7.0	0 x 0	VinIFix	st9
st1	PeakAVF	933	933	0.063	746	14.7	10 x 18	ShtMetl	
st9	PeakAVF	218	187	0.076	624	8.0	0 x 0	VinIFix	st1
st8	PeakAVF	126	97	0.063	642	6.0	0 x 0	VinIFix	st7
st7	PeakAVF	151	119	0.063	565	7.0	0 x 0	VinIFix	st6
st6	PeakAVF	317	335	0.063	614	10.0	0 x 0	VinIFix	st1
st12	PeakAVF	285	234	0.089	646	9.0	0 x 0	VinIFix	st11
st11	PeakAVF	308	262	0.089	565	10.0	0 x 0	VinIFix	st1

## 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
rb3	0x0	933	933	180.4	0.063	528	18.0	0x 0		VIFx	rt1

## Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt1	PeakAVF	933	933	0.063	415	14.7	18 x 18	ShtMetl	

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External static pressure	0.60 in H2O	0.60 in H2O
Pressure losses	0.24 in H2O	0.24 in H2O
Available static pressure	0.36 in H2O	0.36 in H2O
Supply / return available pressure	0.216 / 0.144 in H2O	0.216 / 0.144 in H2O
Lowest friction rate	0.093 in/100ft	0.093 in/100ft
Actual air flow	600 cfm	600 cfm
Total effective length (TEL)	389 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
Casita	c 2193	100	123	0.094	6.0	0x0	VIFx	14.1	215.0	st13
Casita Bath	h 1067	81	61	0.094	5.0	0x0	VIFx	14.4	215.0	st13
Casita GR	h 2010	152	128	0.093	7.0	0x0	VIFx	17.2	215.0	st14
Casita dsl	h 901	68	43	0.093	5.0	0x0	VIFx	18.5	215.0	st14
Casita-A	c 2193	100	123	0.102	6.0	0x0	VIFx	13.0	200.0	st14
Casita-B	c 2193	100	123	0.097	6.0	0x0	VIFx	12.9	210.0	st14

### Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st2	PeakAVF	600	600	0.093	771	11.6	8 x 14	ShtMetl	
st13	PeakAVF	180	183	0.094	686	7.0	0 x 0	VinIFix	st2
st14	PeakAVF	420	417	0.093	534	12.0	0 x 0	VinIFix	st2

### Return Branch Detail Table

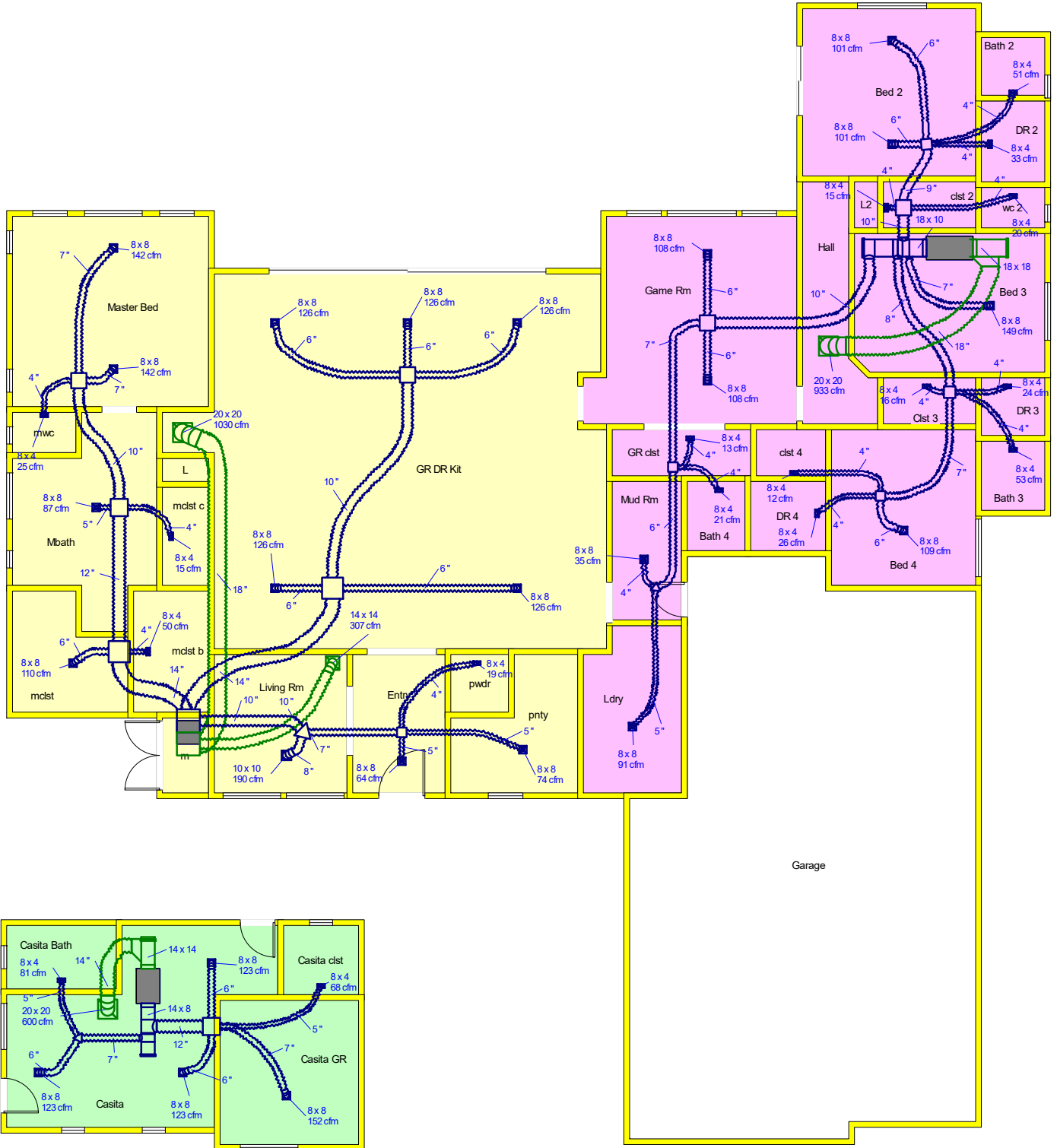
Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb2	0x0	600	600	155.3	0.093	561	14.0	0x 0		VIFx	rt2

## Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt2	PeakAVF	600	600	0.093	441	11.6	14 x 14	ShtMetl	



Main Floor



Job #: Phoenix, AZ  
Performed by Josh Putman for:

Scale: 1 : 152  
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