

M17000912



Load Short Form Entire House TOTAL COMFORT HTG. & A/C, INC.

Job:
Date: 2016
By:

12009 MARGARET DRIVE, HAGERSTOWN, MD 21742 Phone: 301-745-3700

Project Information

For: BAKER RESIDENCE
1596 DAISY ROAD, WOODBINE, MD 21797

Design Information

	Htg	Clg	Method	Infiltration	Simplified
Outside db (°F)	12	91			
Inside db (°F)	70	75	Construction quality		Semi-loose
Design TD (°F)	58	16	Fireplaces		
Daily range	-	M			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	25	24			

HEATING EQUIPMENT

Make WaterFurnace
Trade ENVISION NZ SERIES DUAL CAPACI...
Model NDZ072A1
AHRI ref 1296879

Efficiency 3.53 COP
Heating input 15.9 kW
Heating output 54175 Btuh
Temperature rise 30 °F
Actual air flow 1699 cfm
Air flow factor 0.027 cfm/Btuh
Static pressure 0.50 in H2O
Space thermostat

COOLING EQUIPMENT

Make WaterFurnace
Trade ENVISION NZ SERIES DUAL CAPACI...
Cond NDZ072A1
Coil NAH060*
AHRI ref 1296879

Efficiency 15.5 EER
Sensible cooling 44476 Btuh
Latent cooling 19061 Btuh
Total cooling 63537 Btuh
Actual air flow 1699 cfm
Air flow factor 0.045 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.86
Capacity balance point = 46 °F

Backup:
Input = 17 kW, Output = 58168 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
B	55	1437	556	39	25
LAUNDRY	131	2673	1216	73	55
T	32	319	76	9	3
M BATH	88	1212	342	33	15
MBR	240	3538	2843	97	128
GREAT RM	588	4981	5180	137	233
WIC	77	0	0	0	0
KITCHEN	546	3434	4263	94	191
PANTRY	60	1433	378	39	17
COATS	36	1110	366	30	16
GARAGE	156	0	0	0	0
OFFICE	100	2098	1705	58	77
ST	56	1937	693	53	31
BASEMENT	1913	11607	944	319	42

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



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Page 1

SECOND FLOOR	1737	26130	19275	717	866
Entire House	5815	61912	37836	1699	1699
Other equip loads		0	0		
Equip. @ 0.96 RSM			36474		
Latent cooling			6402		
TOTALS	5815	61912	42876	1699	1699

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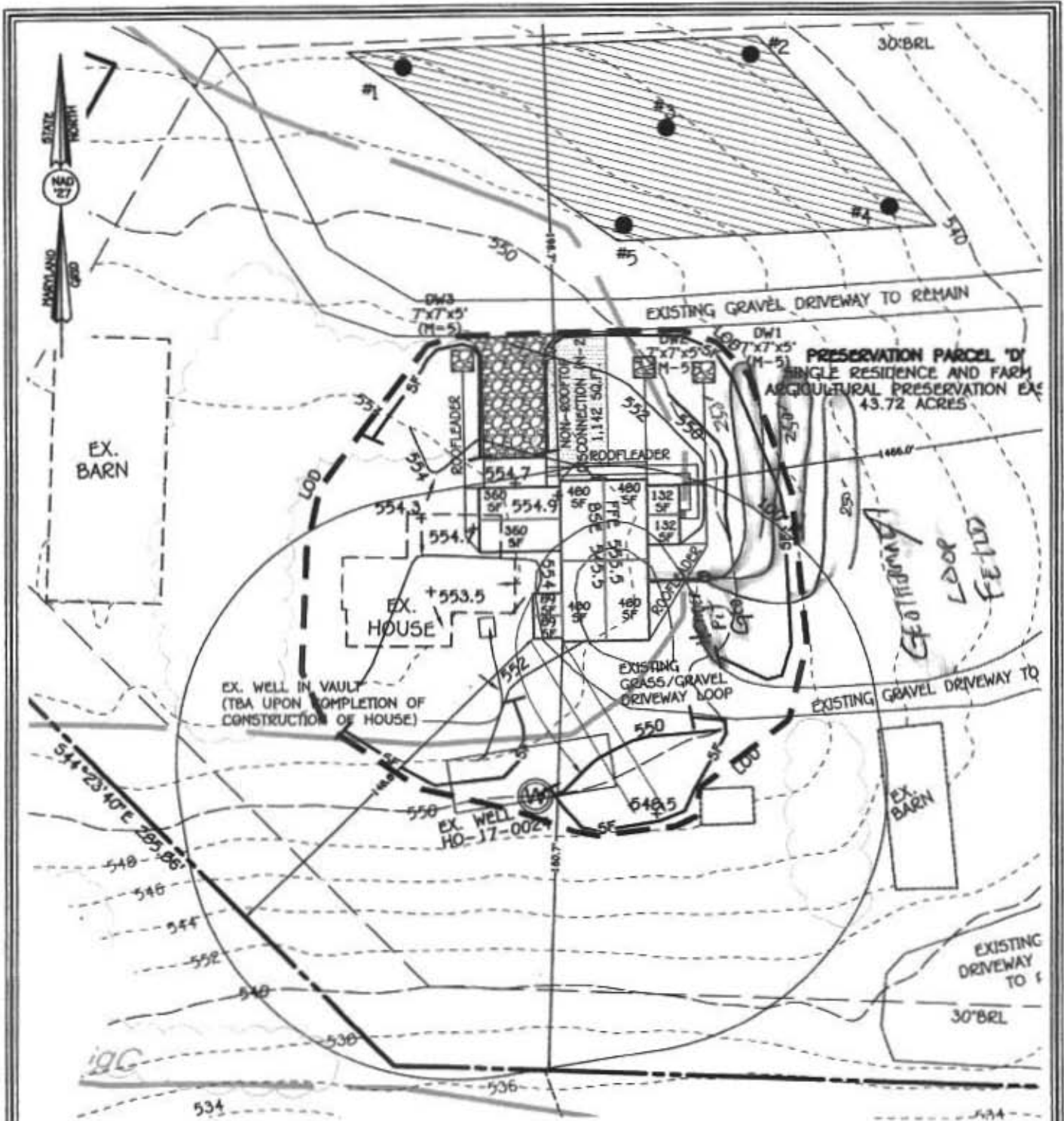
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Page 2

M17000912



PERMIT PLAN

**CATTAIL WOODS, SECTION 2
PRESERVATION PARCEL 'D'**

(F-95-107 - PLAT #12504)

#1596 DAISY ROAD

ZONING: RC-DEO
 TAX MAP No. 7 GRID No. 24 PARCEL No. 519
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1"=50' DATE: JUNE, 2017
 SHEET 1 OF 1

FISHER, COLLINS & CARTER, INC.
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