

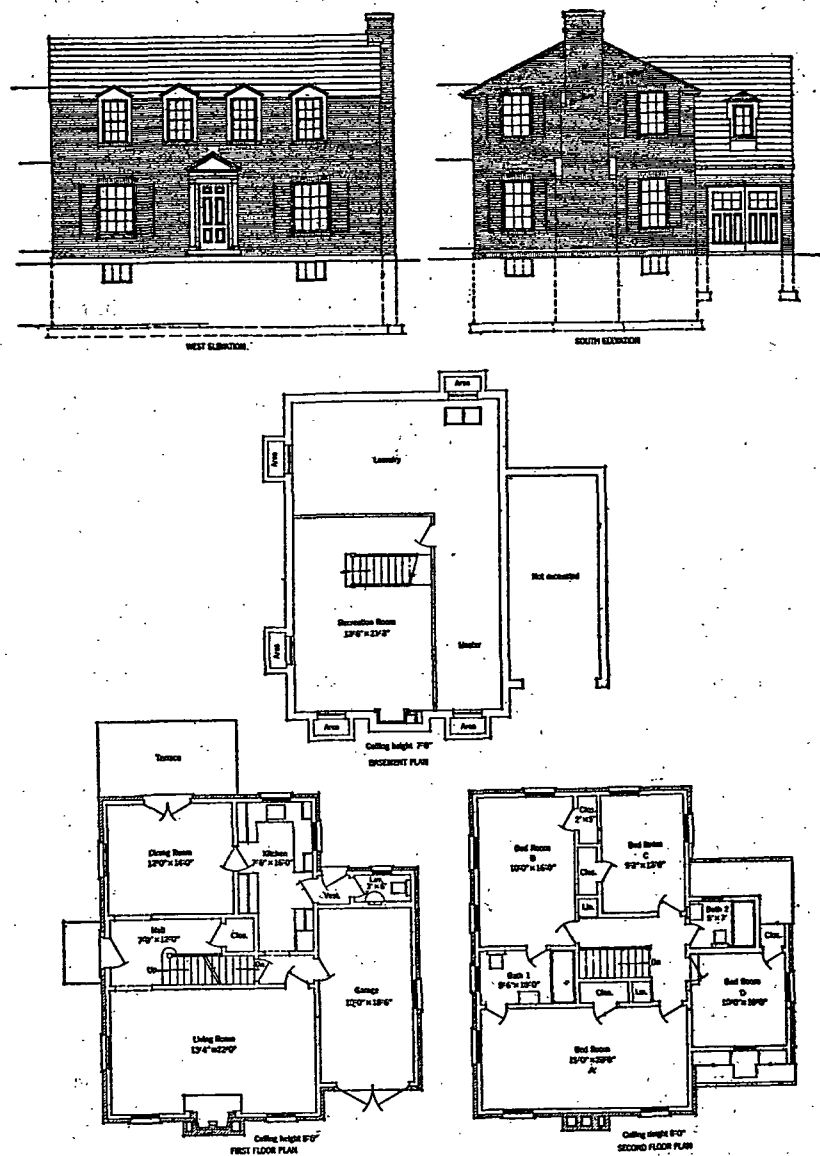


FIG. 3. ELEVATIONS AND FLOOR PLANS OF RESIDENCE

TABLE 5. HEAT LOSS CALCULATION SHEET FOR UNINSULATED RESIDENCE (FIG. 3)

A	B	C	D	E	F	G
ROOM OR SPACE	PART OF STRUCTURE OR INFILTRATION AIR CHANGES	NET AREA OR AIR VOLUME	COEFFICIENT	TEMP. DIFF. ^a	HEAT LOSS (Btu per hour)	TOTALS (Btu per hour)
Bedroom A and Closet	Walls Glass Ceiling Infiltration (34) ^a	238 sq ft 40 sq ft 252 sq ft 1510 cfb ^b	0.28 0.45 0.69 0.018 ^a	80 80 39.84 80	5330 1440 6910 2180	15,860
Bedroom B and Closet	Walls Glass Ceiling Infiltration (34) ^a	156 sq ft 40 sq ft 170 sq ft 1020 cfb ^b	0.28 0.45 0.69 0.018 ^a	80 80 39.84 80	3490 1440 4660 1470	11,060
Bedroom C and Closet	Walls Glass Ceiling Infiltration (34) ^a	114 sq ft 27 sq ft 129 sq ft 874 cfb ^b	0.28 0.45 0.69 0.018 ^a	80 80 39.84 80	2560 970 3540 1260	8,330
Bedroom D and Closet	Walls Glass Ceiling Floor over garage Infiltration (34) ^a	118 sq ft 20 sq ft 110 sq ft 110 sq ft 600 cfb ^b	0.28 0.45 0.69 0.25 0.018 ^a	80 80 39.84 35 ^a 80	2050 720 3020 960 ^a 950	8,300
Bathroom 1	Walls Glass Ceiling Infiltration (1) ^a	30 sq ft 14 sq ft 55 sq ft 440 cfb ^b	0.28 0.45 0.69 0.018 ^a	80 80 39.84 80	670 500 1510 630	3,310
Bathroom 2	Walls Glass Ceiling Floor over garage Infiltration (1) ^a	79 sq ft 9 sq ft 35 sq ft 35 sq ft 280 cfb ^b	0.26 0.45 0.69 0.25 0.018 ^a	80 80 39.84 35 ^a 80	1640 320 960 310 ^a 400	3,630
Living Room	Walls Walls (adjoining garage) Glass Glass Floor Infiltration (134) ^b	267 sq ft 94 sq ft 50 sq ft 294 sq ft 3745 cfb ^b	0.28 0.39 ^d 0.45 0.45 0.018 ^a	80 35 ^a 80 80 80	5980 1280 ^a 1800 720 5400	14,460
Dining Room	Walls Glass (doors) Glass (windows) Floor Infiltration (134) ^d	166 sq ft 35 sq ft 20 sq ft 168 sq ft 2140 cfb ^b	0.28 1.13 0.45 0.45 0.018 ^a	80 80 80 80 80	3720 3160 720 3080	10,680
Kitchen and Entrance to Garage	Walls Walls (adjoining garage) Glass Glass Door Floor Infiltration (134) ^d	96 sq ft 51 sq ft 18 sq ft 17 sq ft 125 sq ft 1595 cfb ^b	0.28 0.39 ^d 0.45 0.51 0.45 0.018 ^a	80 35 ^a 80 35 80 80	2150 700 ^a 650 300 2300	6,100
Lavette and Vestibule	Walls Walls (adjoining garage) Glass Glass Door Floor Infiltration (134) ^b	82 sq ft 85 sq ft 9 sq ft 19 sq ft 30 sq ft 383 cfb ^b	0.28 0.39 ^d 0.45 0.51 0.45 0.018 ^a	80 35 ^a 80 80 80 80	1840 1160 ^a 320 780 550	4,650
Entrance Hall	Walls Door Ceiling Infiltration (2) ^d	39 sq ft 21 sq ft 87 sq ft 1110 cfb ^b	0.28 0.38 0.69 0.018 ^a	80 80 39.84 80	870 940 2390 1600	5,500
Garage	Walls Glass Doors Infiltration (134) ^m Floor (heat gain) Gain adjoining rooms	167 sq ft 53 sq ft 44 sq ft 2360 cfb ^b 185 sq ft	0.28 1.13 0.51 0.018 ^a 0.10	45 ^a 45 45 45 -15	2110 2700 1010 1910 -280 ^a -4410 ^a	3,040
Recreation Room ⁹	Walls Glass Floor Infiltration (1) ^a	220 sq ft 8 sq ft 287 sq ft 2010 cfb ^b	0.10 1.13 0.10 0.018 ^a	38 80 20 80	840 720 570 2890	5,020
					TOTAL	99,940