

LAW OFFICES
OF
CHASE & RACINE
733 NATIONAL BANK BUILDING
608 MADISON AVE.
TOLEDO, OHIO 43604

RICHARD A. CHASE
CHARLES E. RACINE

September 14, 1983

TELEPHONE
AREA CODE 419
244-2871

1036
S. Perry
Sto

Mr. Richard Hayward
c/o City of Napoleon, Ohio
255 Riverview Avenue
Napoleon, Ohio 43545

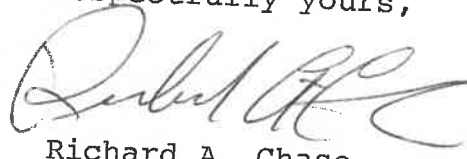
Re: Building Permit - The Lutheran
Orphans' and Old Folks' Home
Society at Napoleon, Ohio, Inc.

Dear Mr. Hayward:

Please find enclosed my client's check no.
15405 in the amount of \$826.20 representing payment
in full for the building permit.

I would appreciate you sending the permit to
me at your earliest convenience.

Respectfully yours,



Richard A. Chase

RAC:cg
Enclosure



City of NAPOLEON, OHIO

255 RIVERVIEW AVENUE — (419) 592-4010

February 14, 1983

Mayor
Robert G. Heft

Clerk-Treasurer
Rupert W. Schweinhagen

Members of Council
Darel Austermilller, President
James Jackson
William Young
Lawrence Haase
Darrell Fox
James Zumfelde

City Manager
Richard A. Hayward

Law Director
Keith P. Muehlfeld

Mr. Richard Chase
Attorney at Law
763 National Bank Bldg.
608 Madison Ave.
Toledo, OH 43603

Re: Utilities for Lutheran Home
Site, Napoleon, Ohio

Dear Mr. Chase:

The City of Napoleon certifies that water, sewer and electrical service is available to the site and is adequate to serve not only the proposed facility, but also to maintain a high rate of service to existing properties.

If you have any questions, please contact this office.

Sincerely yours,

Von Eric Berlin
Von Eric Berlin, P.E.
City Engineer

VEB:dd

cc: ✓ Mr. Richard Hayman
Rev. David Buegler

SUMMARY OF INFORMATION
NECESSARY FOR SUBMISSION OF PLANS
TO MEET MODEL ENERGY CODE IN NEW BUILDINGS

COUNTY OF PROJECT: HENRY

BUILDING OCCUPANCY: NURSING HOME

NAME OF PROJECT: LUTHERAN NURSING HOME

ADDRESS OF PROJECT: NAPOLEON, OHIO

SUBMITTER'S NAME (PLEASE PRINT) _____

SIGNATURE: _____

PART 1

- a) Buildings and structures or portions thereof will have less than three and four tenths (3.4) BTU/Hr. per square foot or one point zero (1.0) watt per square foot of floor area energy usage for all purposes. Section 101.3 (a,1).

Yes No

If answer is yes, disregard the remainder of this questionnaire.

- b) Buildings and structures or portions thereof will be heated or cooled by fuel. Section 101.3 (a,2).

Yes No

If answer is no, disregard the remainder of this questionnaire.

PART 2

Indicate Design Method

_____ Systems Analysis (includes non-depletable if applicable)
Section 4 Fill out Part 4 in its entirety.

✓ _____ Component Performance Approach.
Section 5 Fill out Part 5 in its entirety.

_____ Acceptable Practice.
Section 6 Fill out Part 6 in its entirety.

PART 3

SUMMARY OF INFORMATION
NECESSARY FOR SUBMISSION OF PLANS
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PART 4 SYSTEMS ANALYSIS

- a) Submission includes analysis of annual energy usage.
Yes No
- b) Did you include the required computer program analysis necessary for satisfying Sections 402.3 and 402.4?
Yes No
- c) Did you include the calculations for comparison with a "standard design" similar building required to provide compliance with the code as specified in Section 402.1?
Yes No
- d) Do all the drawings necessary for Energy Conservation show the required seal or embossment of the Ohio Registered Engineer or Architect responsible for the analysis?
Yes No
-

PART 5 COMPONENT PERFORMANCE APPROACH

- a) If authoritative information is not available for obtaining heating degree days, have you shown your calculations for straight-line interpolation?
Yes No
- b) Have you neatly tabled all the required design information on the plans as required by Section 302.1, Table 5-1 and Table 5-2?
Yes No
- c) Do your cross sections contain enough detail to substantiate all materials necessary for computing the proposed U for floors, walls, and ceilings or roofs?
Yes No

SUMMARY OF INFORMATION
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PART 5 CONTINUED.

- d) Have you shown on the cross sections for (c) above any unusual material R values and the source of R values?
Yes No
- e) If you have made use of the non-conforming component design method, have you shown all calculations to substantiate the heat loss to be less than code requirement?
Yes No
- f) Do your plans reflect the method you have chosen to conform with air infiltration rates under Section 502.4 of the code?
Yes No
- g) Have you shown on the plans the calculations for OTTV (using Equation 2) to be less than that required by code?
Yes No
- h) Will all the gas and oil fired heating equipment show a minimum combustion efficiency of 75 percent as required by section 503.4 (c)?
Yes No
- i) Do your plans reflect the required amount of insulation for air handling ducts and pipes as indicated by Sections 503.9 and 503.11 respectively?
Yes No
- j) Will the plans for HVAC equipment indicate energy efficiency ratios and coefficient of performances greater than shown in Table 5-4 thru 5-7?
Yes No
- k) Have you shown on the plans the equipment necessary for conservation of hot water as required by Section 504.5?
Yes No
- l) Have you performed and shown on the plans a lighting power budget as required by Section 505.3?
Yes No

SAMPLE FORM OF
CALCULATION SHEET FOR MODEL ENERGY CODE

Name of Project LUTHERAN NURSING HOME

County HENRY; Heating Degree Days 6494;

Winter design 97 1/2° Degree F 4° F

Floor area of building envelope for compliance with Model Energy Code 41,200 sq. ft.

Roof area of building envelope for compliance with Model Energy Code 41,200 sq. ft.

BUILDING ELEMENT	NORTH	SOUTH	EAST	WEST	TOTALS
Area of Building Envelope Walls	3,170	3,210	2,042	2,042	10,464
Window Areas	230	500	300	300	1,330
Door Areas	340	30	28	28	426
Window Crack Length					
Door Crack Length					
Skylight Area					
Skylight Crack Length					

U-Value For Windows Single Pane Double Pane Triple Pane 0.5 Thickness of Air Space 1/4"

U-Value for Doors 0.6; Thickness 1" inches; Type of Material WOOD

Glass Per Cent of wall surface = $\frac{\text{Glass Area, Sq. Ft.}}{\text{Building Envelope Wall, Sq. Ft.}} \times 100 = \underline{10.9} \%$

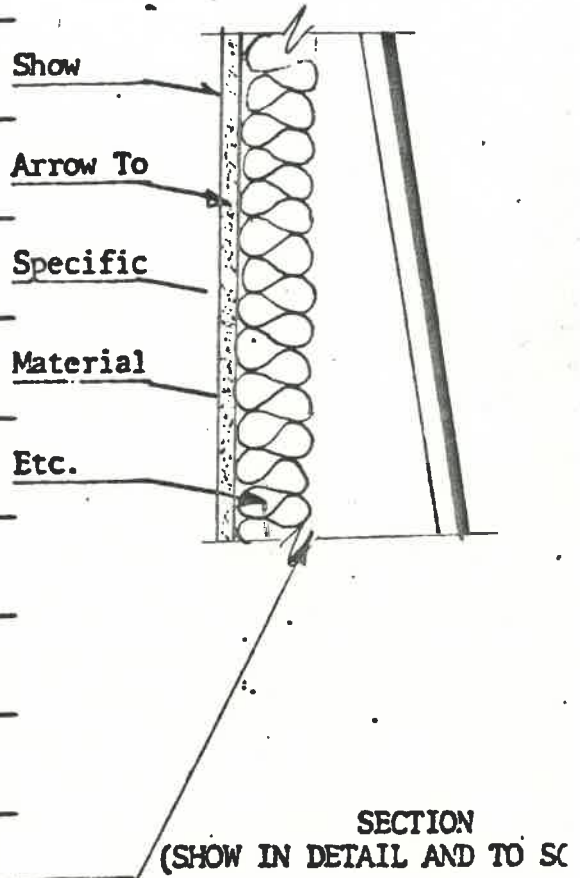
$\Delta T = 72^\circ F$ - (Winter Design 97 1/2° Degree F) = _____ °F (For non-conforming component approach only)

Compute overall U_w value for walls by use of equation 1 in the Model Energy Code. By making use of attached "Sections For Obtaining U Values," complete the following tables.

SECTION FOR OBTAINING U-VALUES

ROOF

DESCRIPTION OF MATERIAL	THICKNESS	R-VALUES
1) Air Film (INSIDE)	-	0.61
2) M ₁ LAY-IN CEILING	-	-
3) M ₂		
4) M ₃		
5) Insulation (FIBERGLASS)	12"	30
6) M ₄		
M ₅		
8) M ₆		
9) Air Film (OUTSIDE)		0.17



TOTAL R-VALUE = 30.78

TOTAL U VALUE OF SECTION $U = \frac{1}{R} = 0.033$

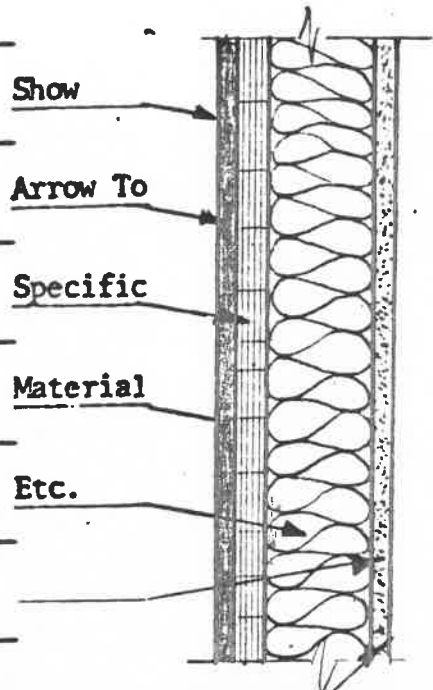
* M = Various materials (Describe briefly)
Provide more lines if necessary

Provide additional copies of section through walls, ceilings and floors.
(For example, cavity section, stud section, rafter section, plate section, masonry cavity wall section and etc.)

SECTION FOR OBTAINING U-VALUES

WALL

DESCRIPTION OF MATERIAL	THICKNESS	R-VALUES
1) Air Film (OUTSIDE)	-	0.17
2) M ₁ STUCCO	-	-
3) M ₂ STYROFOAM	3/4"	5.0
4) M ₃		
5) Insulation (FIBERGLASS)	3 1/2"	11.0
6) M ₄ GIPSUM BOARD	5/8"	0.56
M ₅		
8) M ₆		
9) Air Film (INSIDE)		0.68



SECTION
(SHOW IN DETAIL AND TO SC

TOTAL R-VALUE = 17.41

TOTAL U VALUE OF SECTION $U = \frac{1}{R} = 0.06$

* M = Various materials (Describe briefly)
Provide more lines if necessary

Provide additional copies of section through walls, ceilings and floors.
(For example, cavity section, stud section, rafter section, plate section,
masonry cavity wall section and etc.)

EXTERIOR DESIGN CONDITIONS

WINTER	DESIGN DRY BULB	4°F
SUMMER	DESIGN DRY BULB	91°F
	DESIGN WET BULB	73°F
DEGREE-DAYS HEATING		6494
DEGREES-NORTH LATITUDE		41°-2'

BUILDING ENVELOPE ELEMENT THERMAL TRANSMISSION DATA

<u>ELEMENT</u>	<u>MODE</u>	<u>REQUIRED VALUE</u>	<u>ACTUAL VALUE</u>
WALLS	HEATING	Uo = 0.27	Uo = 0.13
	COOLING	OTTV = 33.8	OTTV = 18.2
ROOF	HEATING OR COOLING	Uo = 0.072	Uo = 0.033
FLOORS OVER UNHEATED SPACES	HEATING OR COOLING	Uo =	Uo =
HEATED SLAB ON GRADE	HEATING OR COOLING	R =	R =
UNHEATED SLAB ON GRADE	HEATING OR COOLING	R = 5.15	R = 2.12
OVERALL BUILDING COMPOSITE	HEATING OR COOLING	Uo = 0.12	Uo = 0.06



City of NAPOLEON, OHIO

255 RIVERVIEW AVENUE — (419) 592-4010

August 12, 1983

Mayor

Robert G. Heft

Clerk-Treasurer

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Members of Council

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Darel Austermitter
Darrell Fox
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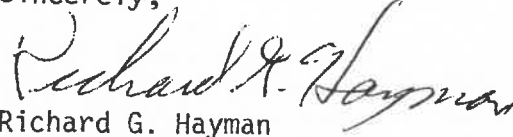
Mr. Terry Martell
Samborn, Stekete, Otis & Evans
1001 Madison Ave.
Toledo, OH 43624

Dear Mr. Martell:

Please submit the check for the Lutheran Orphans' and Old Folks' Home building permit in the amount of \$826.20, payable to the City of Napoleon.

Thank you.

Sincerely,


Richard G. Hayman
Building Commissioner

RGH:dd