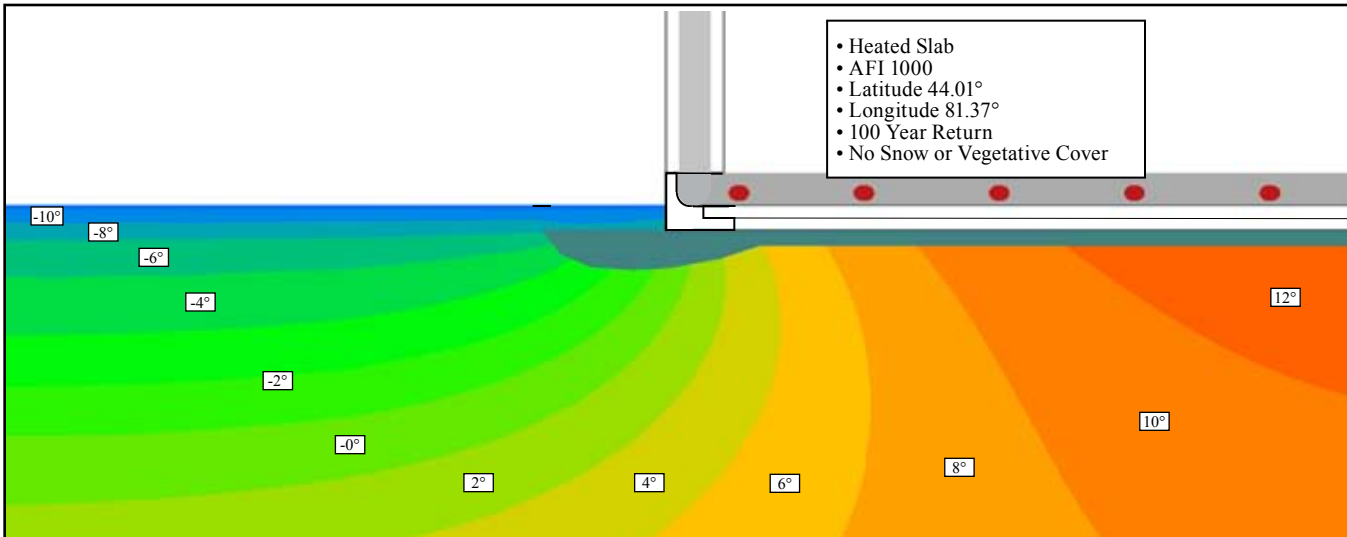




DESIGN PARAMETERS

Latitude:	44.01°
Longitude:	81.37°
Building location:	Kincardine, ON
Building location elevation:	250 m.
Nearest weather station:	Hanover, ON
Nearest weather station elevation:	270 m.
Nearest weather station average AFI in °C_Days:	693
Adjusted AFI:	717
Design outdoor temperature:	-19° C / -2.2° F
Mean soil design temperature:	9° C / 48° F
Existing simulation ground temperature based on AFI:	9° C
Building Area:	463.6 m² / 4,990 ft²
Building perimeter:	375 ft.



FROST LINE MODELING - FROST PROTECTED SHALLOW FOUNDATION

THE TEAM

Developer: **Tom Kerr - Heating & Air Conditioning /**
 North Perth (Listowel), ON / (519) 291-1807.
 Architect: **J. William Birdsell - Guelph, ON / (519) 822-9999.**
 Builder/Legalett installer: **Tom Kerr - Heating & Air Conditioning /**
 North Perth (Listowel), ON / (519) 291-1807.
 Legalett Service Representative: **Matt Thomas - Thermal Mass Insulated Concrete /**
 Cambridge, ON / (519) 740-2223.

BUILDING ISSUES



WHY LEGALETT ?

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-
-
-
-

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“ _____ ”

KERR - SIX PLEX

STRUCTURAL

Loads

Soil Bearing Pressure

ENERGY

LEGALETT.

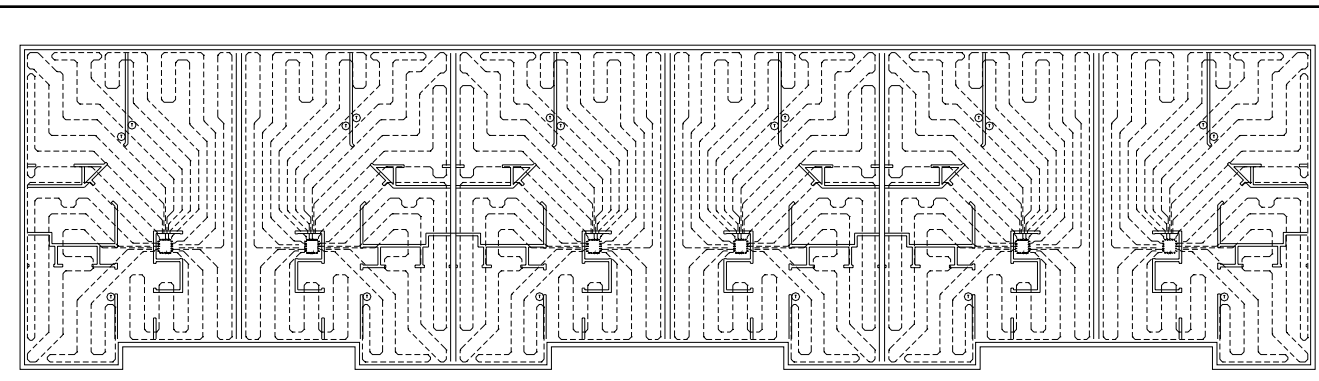
Heat Loss Page 1 of 24
 Legalett Project # 6048

Order Date	December 7th, 2006	Project Title	Kerr Six Plex x 5 (Units #1 & #2)
Mar'l Delivery Date	May 15th, 2007	City	Kincarden
Service Rep.	Thermal Mass	Revision	
Installer	Tom Kerr	Nearest City	Hanover ON

Building R-values	Taken from	Checked
Wall R 27	Correspondence	<input type="checkbox"/>
Unheated Flat Ceiling R 40	Correspondence	<input type="checkbox"/>
Unheated Cathedral Ceiling R	Not Used	<input type="checkbox"/>
Window R 6	Correspondence	<input type="checkbox"/>
Man Door R 10	Correspondence	<input type="checkbox"/>
Garage Door R	Not Used	<input type="checkbox"/>
Suspended Slab Insulation R 12	Choose	<input type="checkbox"/>
Slab-on-Grade Exposed Edge R 12	Judgement	<input type="checkbox"/>
Slab-on-Grade Edge Factor 0.13	6" EPS, Edge Factor 0.13	<input type="checkbox"/>
Slab-on-Grade Slab Factor 0.16	6" EPS, Slab Factor 0.16	<input type="checkbox"/>
Choose Piping Size	<input checked="" type="radio"/> 1" <input type="radio"/> 2"	<input type="checkbox"/>
Climate Data		
Nearest Location	Hanover, ON	
Outdoor Design Temp	-19 °C	

Heat Loss

Piping Density



Heater and Pipe Layout