2025-02-17 02:50AM			
0101-[1] Project Summary			
some text asdfas			
center this text			
0101 [2] Overview and Codes			
0101-[2] Overview and Codes			
This report describes the structural de residential patio located in the City of design of a concrete slab and stem w of solar panels to the frame.	f Larkspur, Calif	ornia. It includes the	
Fig. Wind Load 1 : ins01\rivt01.png			
Fig. Wind Load 2 : ins01\site01.png			
$a_2 \cdot dl_2$ $wt_2 =$			
Building Codes and Jurisdiction			
City of Larkspur, California2019 California Building Code [CBC]2019 California Residential Code [CF			
Table 1 - Loading			
======================================	======================================	Year	=======================================

=====						
Loading ASCE-7 2016						
Concrete ACI-318 2014						
Wood-National Design Specifications AWC-NDS 2018						
Wood-Special Design Provisions for Wind and Seismic AWC-SDPWS 2015						
Wood Frame Construction Manual AWC-WFCM 2018						
====== [
[values read from file: ins01/cbc2019A_stds.csv]						
Design loads for the project are from the California Building and Residential Codes and are summarized in the following tables						
Residential Codes and are summarized in the following tables.						
==== ==================================						
=======================================						
Sym Load Effect Notes						
===== =================================						
=======================================						
D Dead load See IBC 1606 and Chapter 3 of this						
publication						
E Combined effect of horizontal and See IBC 1613, ASCE/SEI 12.4.2 and						
vertical earthquake-induced forces as Chapter 6 of this publication defined in ASCE/SEI 12.4.2						
Em Maximum seismic load effect of See IBC 1613, ASCE/SEI 12.4.3 and						
horizontal and vertical forces as set Chapter 6 of this publication						
forth in ASCE/SEI 12.4.3						
H Load due to lateral earth pressures, See IBC 1610 for soil lateral loads						
ground water pressure or pressure of						
bulk materials						
L Live load, except roof live load, See IBC 1607 and Chapter 3 of this						
including any permitted live load publication						
reduction						
Li Roof live load including any permitted See IBC 1607 and Chapter 3 of this						
live load reduction publication						
R Rain load See IBC 1611 and Chapter 3 of this						
publication W Load due to wind pressure See IBC 1609 and Chapter 5 of this						
publication						
==== ==================================						
=======================================						
[values read from file: ins01/load_types01.csv]						

Table 2 - Load Combinations

CBC 2019 reference	Equation	
=========	:=====	
		=======================================
Equation 16-1	1.4(D +F)	
•	1.2(D + F) + I.6(L + H) + 0.5(I)	
•	1.2(D + F) + 1.6(Lr or S or R) + 1.6	
Equation 16-4	1.2(D + F) + 1.0W + f1L + 1.6H + 0.5(Lr or S or R)	
Equation 16-5	1.2(D + F) + 1.0E + f1L + I.6H + f2S	
Equation 16-6	0.9D+ l.0W+ l.6H	
Equation 16-7	0.9(D + F) + 1.0E + I.6H	
=========	======	
=========		
[values read from file	e: ins01/asce7_load_comb.csv]	
0101-[3] Gravity Load	ds and Seismic Mass	
Test values block		Eq-01
=======================================		=======================================
variable value	[value] description	
		=======================================
	sf 994.06 SM roof area	
	sf 9290.30 SM floor area	
area3 25.00 sf	2.32 SM floor area	
ht1 9.00 ft	2.74 m wall height	
len1 110.00 ft	33.53 m interior wall length	
len2 155.00 ft	47.24 m exterior wall length	
udl1 12.20 psf	584.14 Pa description	
=======================================		=======================================

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variable value [value] description

floordl1 50.00 psf 2394.01 Pa interior wall length floordl2 10.00 psf 478.80 Pa exterior wall length

_____ ======

[values read from file: val01/test1.csv]

wt ₂ = area ₂ ·floordl ₁			
wt2 area2 floordl1			
5000.00 kips 100000.00 ft ² 50.00 psf 22241108.00 N 100000.00 ft ² 50.00 psf ====================================			
Equation for wall area	Eq-03		
ACI-315-05 $wt_3 = area_3 \cdot floordl_2 \cdot 0.1$			
wt3 area3 floordl2	==		
25.0 lbs 25.00 ft ² 10.00 psf 111.2 N 25.00 ft ² 10.00 psf			
=======================================	==		
Exterior wall - total area load	Eq-04		
variable value [value] description			
len1 410.00 ft 124.97 m interior wall len2 455.00 ft 138.68 m exterior wall len2	ength		

[values read from file: val01/test2.csv]