

APPLICATION FOR PERMIT TO BUILD

Street No. 2535-41 Lot 1276 Block 27 1/1 47 2" line. 4

Owner Frank R. Blodgett Address 2535-41

Architect _____ Address _____

Contractor Quinn Address _____

Kind of Building Frame 1 story Dr.

Foundation 6

Posts	Girder		Span		Mud Sills	
	1st Floor	2nd Floor	3rd Floor	4th Floor	5th Floor	6th Floor

Joists	1st Floor	2nd Floor	3rd Floor	4th Floor	5th Floor	6th Floor
Max. Span	Pld. Frame		Steel	Concrete	Gypsum	
Bearing Partitions						
Non Bearing Partitions	Ray of lot		3/4" concrete	partly	partly	partly
Story Height						
Outside Walls				2" masonry		

Ceiling Joists _____ Span _____

Roof _____ Rafters _____

Water Heater _____ Chimney _____

Size of Building—Length _____ Width _____ Height _____

It is hereby agreed that this building will be constructed in conformity with the Ordinances of the City of Sacramento and the Laws of the State of California.

ESTIMATED COST, \$ 55

Mrs. Edith Billings

OWNER OR OWNER'S REPRESENTATIVE.

Plans must be submitted

Permit	<u>7875</u>
Date	<u>5/1/11</u>
District	<u>14</u>

the \mathbb{R}^n -valued function \mathbf{f} is a solution of the system (1) if and only if \mathbf{f} is a solution of the system (2).

Let us assume that the matrix \mathbf{A} is nonsingular. Then the system (2) can be written in the form

$$\mathbf{f}' = \mathbf{A}^{-1}(\mathbf{B} - \mathbf{A}\mathbf{C})\mathbf{f} + \mathbf{A}^{-1}\mathbf{D} \quad (3)$$

where $\mathbf{A}^{-1}(\mathbf{B} - \mathbf{A}\mathbf{C})$ and $\mathbf{A}^{-1}\mathbf{D}$ are $n \times n$ and $n \times 1$ matrices, respectively. The system (3) is a linear system with constant coefficients. The general solution of (3) is

$$\mathbf{f}(t) = \mathbf{e}^{\mathbf{A}^{-1}(\mathbf{B} - \mathbf{A}\mathbf{C})t} \mathbf{c} + \int_0^t \mathbf{e}^{\mathbf{A}^{-1}(\mathbf{B} - \mathbf{A}\mathbf{C})(t-s)} \mathbf{A}^{-1}\mathbf{D} ds \quad (4)$$

where \mathbf{c} is an arbitrary constant vector. The general solution of (1) is $\mathbf{f}(t) = \mathbf{C}\mathbf{f}(t)$ where \mathbf{C} is an arbitrary constant matrix. The general solution of (1) is

$$\mathbf{f}(t) = \mathbf{C} \left[\mathbf{e}^{\mathbf{A}^{-1}(\mathbf{B} - \mathbf{A}\mathbf{C})t} \mathbf{c} + \int_0^t \mathbf{e}^{\mathbf{A}^{-1}(\mathbf{B} - \mathbf{A}\mathbf{C})(t-s)} \mathbf{A}^{-1}\mathbf{D} ds \right] \quad (5)$$

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