Smart Building for Flexible Living

The ADU

Quality Cost Time

Obstacles
State Laws
Design Ideas



Quality & Goals

RENTAL MULTI-GENERATIONAL RETIREMENT RESALE

Project Goal:	Rental	Multi-Gen	Retirement	Resale (ROI)
Size				Median Price/SF
Accessibility			X	Minus
Formality of zones			X	Cost to build
Storage (Bikes, equipment)	X	X	X	Equals
Design				Potential Equity
Kitchen (Oven/DW/F)	X		X	
Bath (Shower/Tub)	X			
Washer/Dryer		X	X	
Windows & Doors				
Finishes		Χ	X	
Flooring				
Tile & Counter				
Fixtures & Hardware			X	
Flexibility				
Site Master Plan	Х			
Privacy	Х			
Utilities				
Shared				
Water Heater	Х			
Mechanical				



... affects both time & cost of a project.

Cost

PRE-CONSTRUCTION

+ CONSTRUCTION TOTAL PROJECT COST

Pre-Construction	Average	Based on Scope
Architectural Design and Construction Documents	\$30,000	\$40,000
Structural Design and Calculations	\$4,500	\$6,000
Energy Analysis	\$500	\$1,000
As Builts*		\$1,200
Civil Survey *		\$3,500
Geotechnical Report*		\$3,500
Grading and Drainage Plan*		\$3,000
Arborist *		\$1,200
Green Building *		\$3,000
Interior Design*		\$5,000
Landscape Design*		\$5,000
Electric Vehicle Charging Plans*		\$1,500
Printing Costs		\$500
City Permits & Fees	\$6,000	\$20,000
Total	\$41,000	\$91,400



* As Needed

Cost

PRE-CONSTRUCTION + CONSTRUCTION TOTAL PROJECT COST

Construction	Range	
Infrastructure & Utilities		
Tree Protection	\$1,100	\$1,100
Demo	\$5,700	\$8,000
Electrical Upgrade (As Needed)	-	-
New Sewer Lateral (As Needed)	-	-
Trenching	\$15,000	\$20,000
Rough Construction		
Structural	\$15,000	\$60,000
Exterior Door/Windows	\$10,000	\$40,000
Skylights Units & Install	\$2,000	\$2,000
Exterior Trim	-	-
Exterior Stucco	\$5,000	\$17,225
Waterproofing	-	-
Mechanical / HVAC	\$8,000	\$20,000
Roofing	\$5,000	\$15,500
Gutters	\$1,000	\$3,000
Electrical Work	\$10,000	\$18,000
Electrical Fixtures	\$3,000	\$8,000
Electrical Vehical Changing Station	-	_
Insulation: Roof & Walls installed	\$5,500	\$8,000
Drywall	\$8,000	\$13,000
Interior Door + Trim Material	\$6,000	\$12,000
Paint : Exterior & Interior	\$5,500	\$20,000

	Rar	nge
Fixture & Finishes *		
Cabinets Kitchen & Vanity	\$7,500	\$35,000
Counters	\$2,500	\$10,000
Finish Hardware	\$500	\$2,000
Flooring	\$4,500	\$14,000
Tile	\$6,000	\$34,500
Appliances	\$7,000	\$12,000
Plumbing Fixtures	\$2,000	\$12,000
Shower Enclosure Installed	\$2,000	\$2,000
Construction Management		
Supervision	\$4,000	\$10,000
Labor/Cleanup/Grading	\$3,000	\$10,000
Portable	\$1,000	\$1,200
Overhead/Margin Profit	\$20,000	\$50,000
Other Costs		
Solar Design and Installation	-	\$12,000
Sprinkler Design and Installation	-	\$10,000
Landscaping	-	(-)
Driveway/Hardscape	-) <u>-</u>
Fencing	-	Z -
Exterior Features (Trellis, Detail, etc)	-	-
Other Home Projects Enclose Carport,		
New Wood Floors/Built Ins	S-1	-
Kitchen Remodel	- -	-
Total	\$163,800	\$480,525



Cost

PRE-CONSTRUCTION + CONSTRUCTION TOTAL PROJECT COST

Total Project Cost	Ran	ge
Pre-Construction	\$41,000	\$91,400
Construction	\$163,800	\$480,525
Total ADU Project Cost	\$204,800	\$571,925
Additional Home Improvement Projects (You know what they are)		\$300,000
	RY	
Total - Total Project Cost		\$871,925
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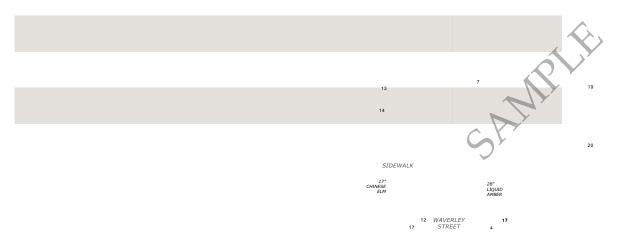


PRE-DESIGN

SCHEMATIC DESIGN CONSTRUCTION DOCUMENTS CONSTRUCTION

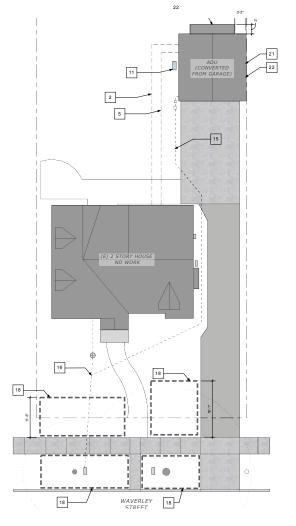
Time

Pre-Design .	12-10"	Week	0"
	19/3*	(E) DETACHED GARAGE	8
Site Visit: Field Measurement		1	
Zoning Research		2	
Engage Civil Engineer as needed	Ž,	2 2	9
Utility Analysis/Research		2	
Input Field Measurements	E) 2 STORY HOUSE NO WORK	2 3	10



1/A :: EXISTING SITE PLAN

1.01 scale: 1/8" = 1'-0"



2/A :: PROPOSED SITE PLAN

1.01 scale: 1/8" = 1'-0"



(N) ELECTRIC

(E) WATER M

6. LINE OF B

7. (E) PATH

8. (E) FENCE

. (E) CONCRETE 0. (E) AC PAVING

0. (E) AC PAVIN 1. MINI SPLIT OI 38MAQB18-3, PROVIDE 3" P. NOISE PRODL

12. CITY SEWER

13. (E) BUILDING

14. (E) SEWER L 15. NEW 3" SEW ADU FOUND

AND NOTIFY

16. (N) SEWER (

17. REGULATED

18. TREE PROTEC #605, TYPE 2 19. (2) EXISTING

21. 1-HOUR RA

LENGTH FROM ADU

A. NO EAVE PRO

B. PROVIDE MIN

D. LIGHT POLL LIGHTING T RATINGS.

F. ANY ADDITE

H. MULCH ALL I MULCH (NO

I. VERIFY HIGH ONLY LOW-F BASED) COM

J. ALL NEW PL WATER NEEL SPECIES LIS NEED TO BE

K. OUT DOOR GREEN 4.30 GREATER TI OPTIONS: 1

CALIFORNIA LANDSCAPE AGGREGATE THE MWELD

L. LANDSCAPE THE MODEL DOCUMENTS WATERUSEE

M. A WATER BU WATERUSEE

Time

PRE-DESIGN SCHEMATIC DESIGN CONSTRUCTION DOCUMENTS CONSTRUCTION

Schematic Design	Week	
Prepare Conceptual Design Options	2	
Conceptual Design Meeting & Additional Site Verification	3	
Prepare Schematic Design Drawings	3	
Develop Interior Layout	4-5	
Schematic Design Meeting	4-5	
Engage Consultants & Send Backgrounds	6-7	É
Engage Organization Company	6-7	>
	SAL	







*Time Allowance

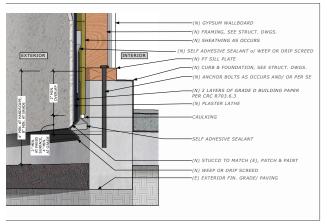
INTER VIEWS

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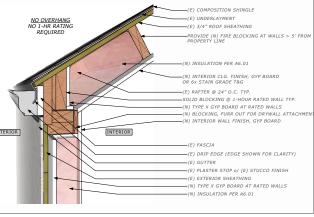
Time

PRE-DESIGN SCHEMATIC DESIGN CONSTRUCTION DOCUMENTS CONSTRUCTION

Construction Documents	Week
Construction Documents	8
Meeting: Site Visit	8
Redline Set	9
Finish Construction Documents	9
Prepare Building Application & Deed	10-11
Submit to Building Department	12
Send Follow up email to comments	16
Resubmit to Building Department	18
Send Plans to contractors	18
Permit Awarded	20



1 NEW STUD INFILL WALL 8.01 SCALE: 3" = 1'-0"



4 ROOF EVE DETAIL 8.01 SCALE: 1 1/2" = 1'-0"

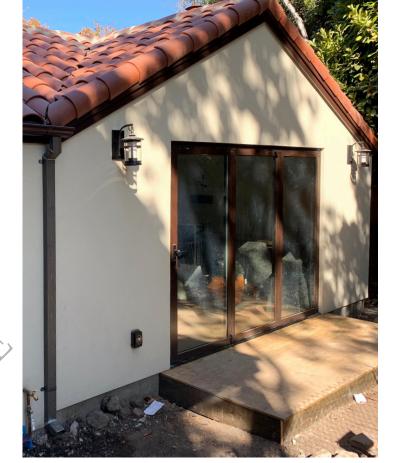


Time

PRE-DESIGN SCHEMATIC DESIGN CONSTRUCTION DOCUMENTS

CONSTRUCTION

Construction	Week
Contractor Selection	18-21
Site Kick-off Meeting	22
Site Mobilization	24-25
Demo	26-27
Major Structural Work: Foundation	28-31
Doors, Windows, Electrical	32-33
Insulation	34
Finishes	35-39
Project Completion	40 (9-12 months)





*Time Allowance

Obstacles

SITE CITY CLIENT CONSULTANT

What else might come up?

Site

Sewer Lateral

Electrical Upgrade

Protected Trees

Water Break

Existing Conditions

City

Unpermitted Work

Utility easements

Zoning Regulation Change

Client

New Baby!

Health Issue

Workload

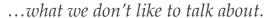
Other Projects

Consultant

Timing

Costs







California State Law

- Effective January 1st, 2020
 - No minimum lot size requirement for 800 sf ADUs
 - Rear and Side Yard setbacks are 4'
 - Allowed height is 16'
 - No impact fees for ADUs under 750 square feet
 - No owner-occupancy requirement for 5 years
 - HOA is no longer allowed to prohibit ADUs
 - An ADU and a JADU are allowed to be built on the same property
 - No parking requirement if property is located within 1/2 mile from public transit.



Webster Street - ADU

- **⋄ NEW 400 SF ADU**
- REPLACE 250 SF GARAGE



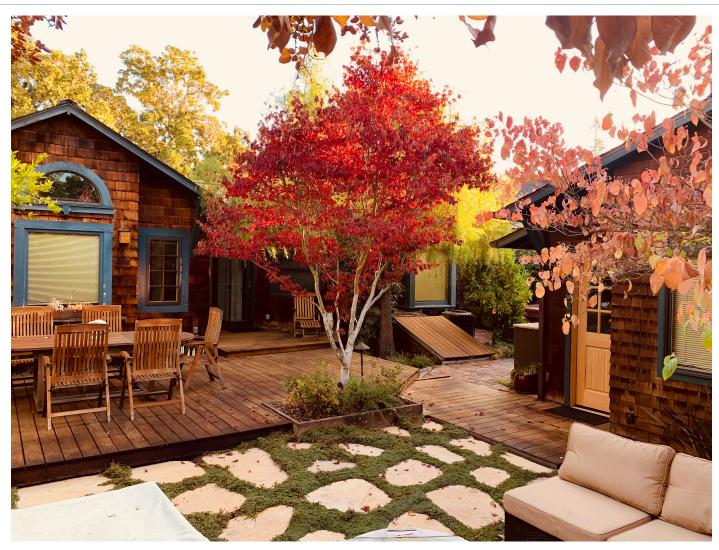


- ⋄ 75 SF OF STORAGE
- OVERHANG FOR OUTDOOR KITCHEN





INTEGRATED INTO EXISTING BACK YARD 30' DEEP





- **VAULTED CEILING**
- DETAILS ECHO MAIN HOUSE







Tasso Street ADU

- **BEFORE PHOTOS**
- EXISTING 328 SF GARAGE TO DEMO







- **AFTER PHOTOS**
- * NEW 328 SF ADU





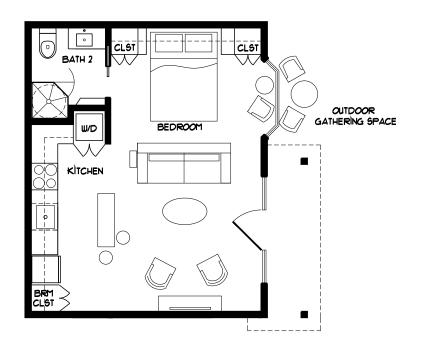


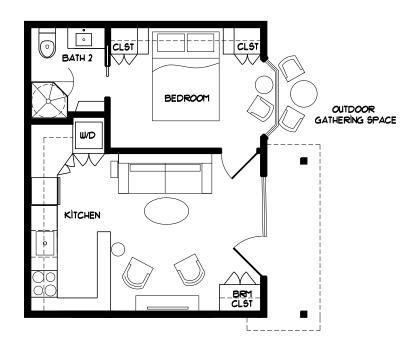
- * BIFOLD DOOR
- * INDUCTION STOVE





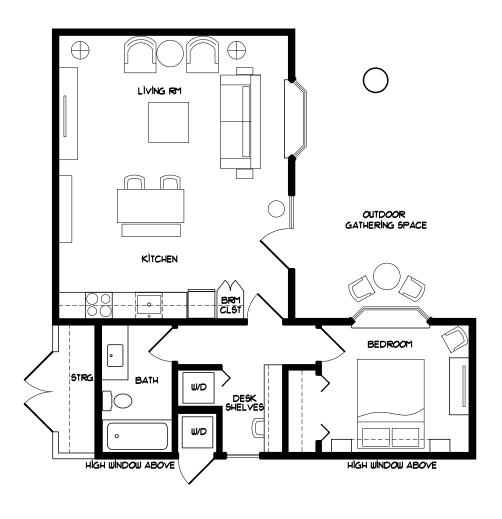






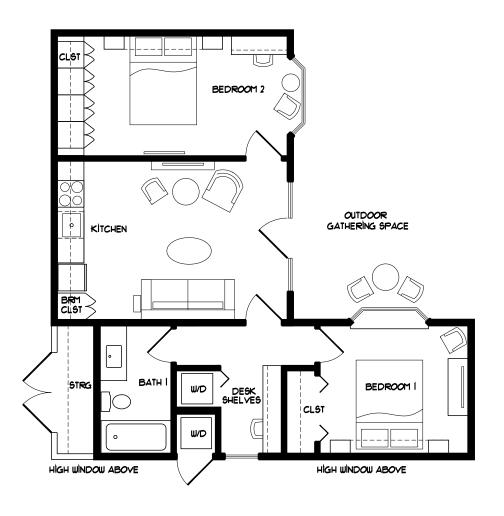


- (E) 400 SF GARAGESTUDIO & 1 BEDROOM



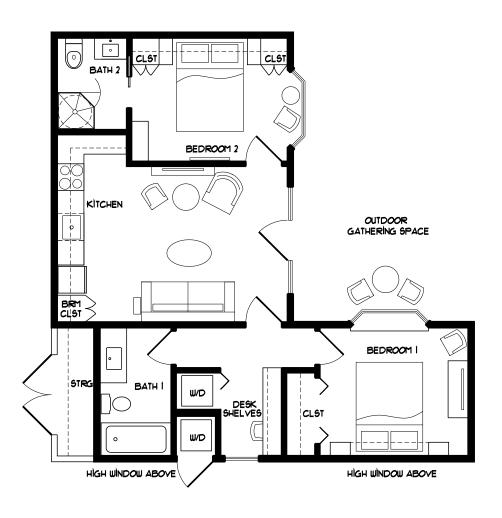


- ♦ 1 BEDROOM
- (E) 400 SF GARAGE(N) 300 SF ADDITION





- * 2 BED / 1 BATH
- (E) 400 SF GARAGE(N) 300 SF ADDITION





- * 2 BED / 2 BATH
- (E) 400 SF GARAGE(N) 300 SF ADDITION