

# A NEW BUILDING ERA

THE CONSTRUCTION INDUSTRY RELIES ON OLD METHODS RELIANT UPON SKILLED LABOR IN THE FIELD.

THE RISE IN JOBSITE LABOR COSTS OVER THE PAST 100 YEARS HAVE OUTPACED THE RISE IN MATERIAL COSTS.

WE ARE HERE TO INNOVATE HOW OUR INDUSTRY WORKS BY BUILDING;



SMARTER



SAFER



FASTER



AFFORDABLE



# HOW DO WE BUILD?

WE TAKE TRADITIONAL FRAMING AND PANELIZE THE NORMAL STICK FRAMED BUILDING ELEMENTS.

OUR EXTERIOR PANELS GO A STEP FURTHER WITH NORMAL EXTERIOR ENVELOPE MATERIALS ALREADY APPLIED TO THE PANELS.

THESE PROCESSES OCCUR IN A CONTROLLED FACTORY SETTING ALLOWING FOR BETTER EFFICIENCY AND QUALITY CONTROL.

CHOOSING APBS WILL SAVE ON EXPENSIVE ONSITE LABOR, (FRAMING, SHEATHING, WATER RESISTIVE BARRIER AND CONTINUOUS INSULATION) BY HAVING IT ALL IN ONE PANEL DELIVERED TO YOUR SITE.

INTRODUCING OUR

## MFP PANELS

INNOVATIVE, PREFABRICATED, CONSTRUCTED WALL PANELS WE DEVELOPED TO REPLACE THE TRADITIONAL WALL.

THE PANELS ARE INSTALLED ON A SILL TRACK AND LOCK TOGETHER TO MINIMIZE ONSITE ALIGNMENT EFFORT.

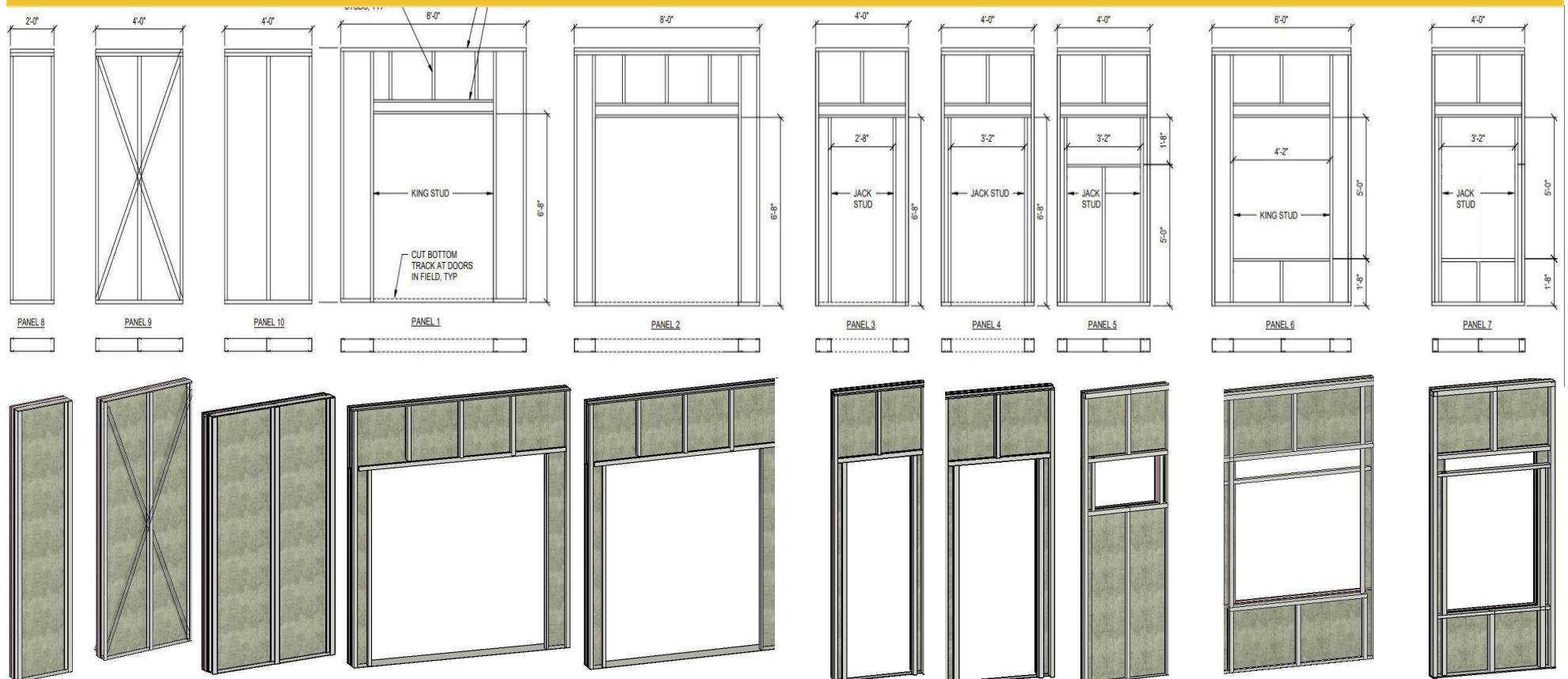


# MFP PANEL TYPES

APBS OFFERS A WIDE VARIETY OF WALL PANEL TYPES AND SIZES TO ACCOMMODATE WINDOWS AND DOORS

THE STANDARD PANEL SIZE FOR OUR SOLID WALL IS 4' WIDE BY 8' HIGH; ON LARGE SCALE DEVELOPMENTS, WE CAN CUSTOMIZE WALL PANEL SIZES AND TYPES TO SATISFY THE PROJECT NEEDS.

OUR PANELS CAN BE CONNECTED ON-SITE TO YOUR SUB-FLOOR USING INDUSTRY STANDARD FASTENERS AND HOLD-DOWNS.





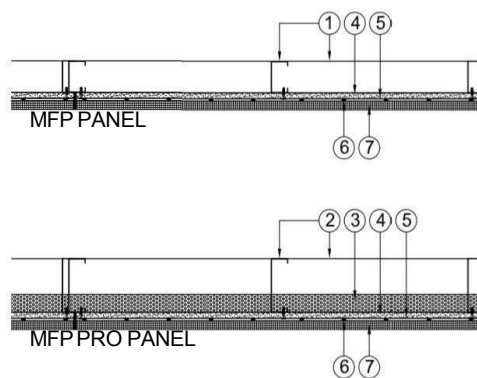
# MFP PANEL –LAYERS

APBS WALL PANELS ARE CONSTRUCTED FROM INDUSTRY STANDARD METAL STUD AND TRACK SHAPES THAT ANY METAL FRAMER WOULD BE FAMILIAR WITH.

APBS EXTERIOR WALL PANELS INCLUDE 5/8" FIBERGLASS MAT GYPSUM SHEATHING BOARD SUITABLE FOR USE IN 1-HOUR FIRE RATED CONSTRUCTION.

APPLIED TO THE SHEATHING IS A FLUID APPLIED WATER RESISTIVE MEMBRANE, SPRAY FOAM ADHESIVE, (APPLIED IN VERTICAL LINES TO FORM A RAINSCREEN) AND EXTRUDED POLYSTYRENE, (XPS) INSULATION.

THE FACTORY APPLICATION OF THE WATER RESISTIVE MEMBRANE MEANS WE DO NOT WORRY HAVE TO WORRY ABOUT INCLEMENT WEATHER AFFECTIVENESS THE INTEGRITY OF THE WATER RESISTIVE BARRIER. WATERPROOFING COATINGS ARE SENSITIVE TO WATER AND RAIN CAN AFFECT THE CURING PROCESS AND EFFECTIVENESS OF THE MATERIAL. IF THE SURFACE IS WET WHEN THE MEMBRANE IS APPLIED, MOISTURE CAN GET TRAPPED BETWEEN THE MEMBRANE AND THE SURFACE, WHICH CAN LEAD TO ISSUES LIKE BUBBLING, BLISTERING, OR EVEN COMPLETE FAILURE.



0.5 mm WATERPROOF COVER

2" INSULATION XPS FOAM BOARD

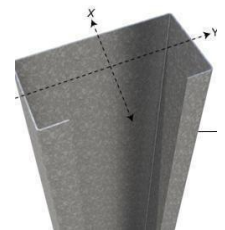
METAL STUD

HOLE IN STUD FOR WIRE RUNNING

5/8" GYPSUM BOARD

TEXT

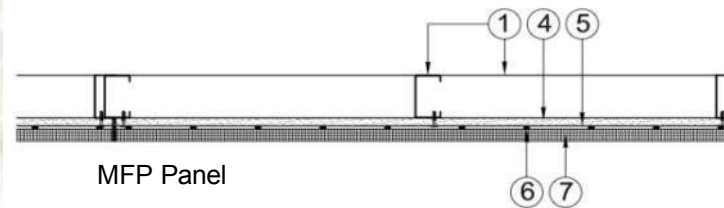
1. 3 1/2" METAL PANEL SYSTEM
2. 6" METAL WALL PANEL SYSTEM
3. 2" POLYURETHANE SPRAY FOAM INSULATION
4. 5/8" EXTERIOR FIRE RATED FIBERGLASS MATT GYPSUM SHEATHING
5. FLUID APPLIED WATER RESISTIVE MEMBRANE
6. SPRAY FOAM ADHESIVE
7. 2" EXTRUDED POLYSTYRENE XPS INSULATION



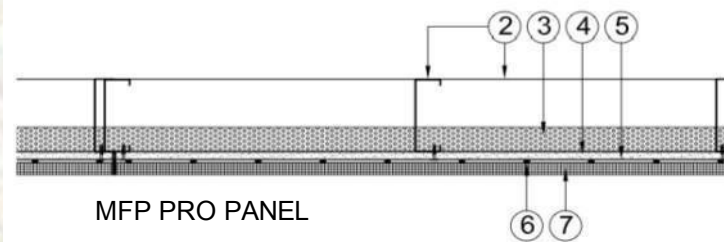
# MFP PRO PANELS

APBS PRO PANELS INCLUDE ADDITIONAL INSULATION AND A MORE AIRTIGHT SOLUTION UTILIZING SPRAY FOAM INSULATION IN THE METAL STUD CAVITY. XPS INSULATION TO THE EXTERIOR.

APBS PRO PANELS UTILIZE (20GA) 6 " METAL STUDS TO ALLOW NORMAL WIRING TO BE INSTALLED IN THE REMAINING CAVITY OF THE METAL STUD WALL AFTER THE PANELS HAVE BEEN PLACED.



MFP Panel



MFP PRO PANEL

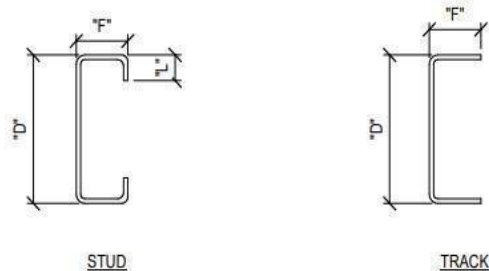
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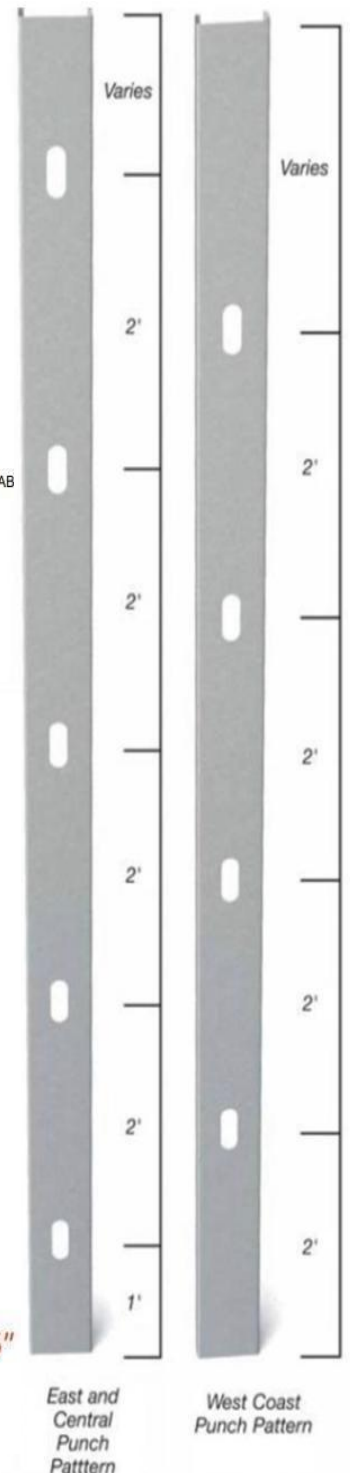
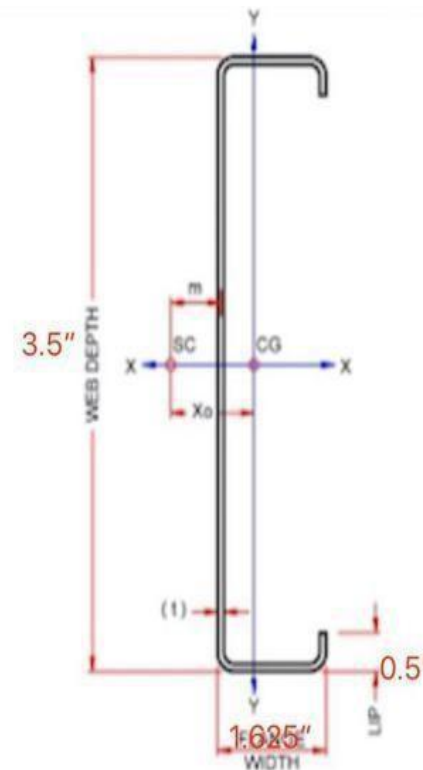
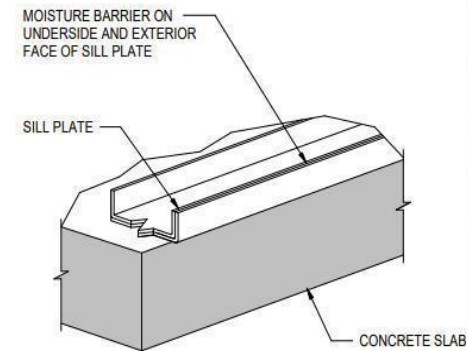
# STRUCTURAL FRAMING

HOMES UTILIZING APBS PANELS ARE STRUCTURED WITH PREMADE METAL FRAMING TRACKS AND STUDS PANELIZED TO BE INSTALLED ON SITE UTILIZING INDUSTRY STANDARD HOLD DOWNS ANCHORS AND TRUSS CLIPS.

OUR LOAD BEARING PANELS UTILIZE 20 GAUGE FRAMING AND OUR NONLOADBEARING WALLS UTILISE 22 GAUGE FRAMING.



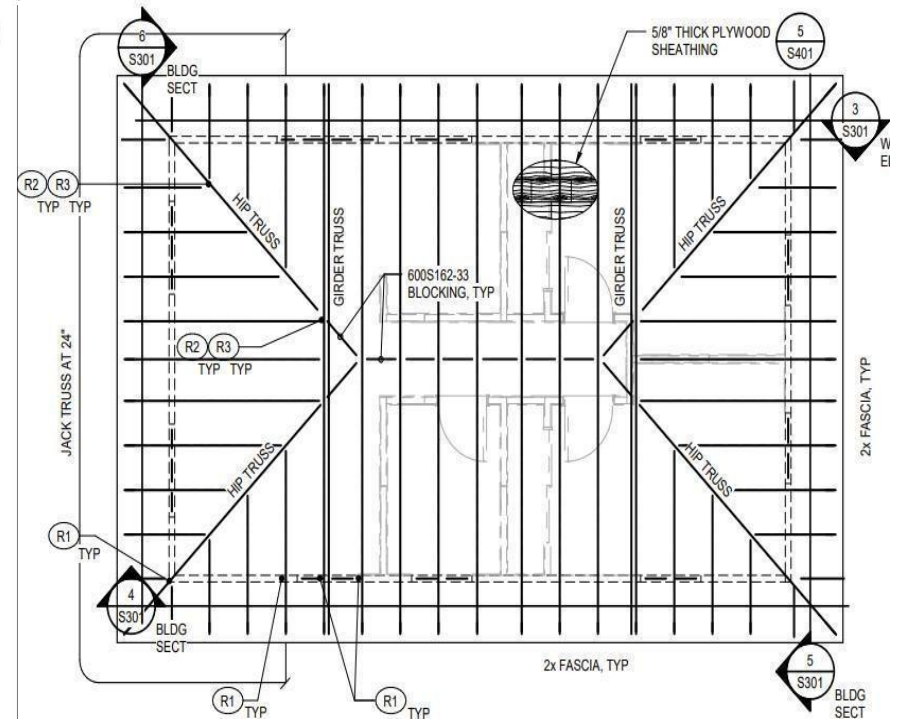
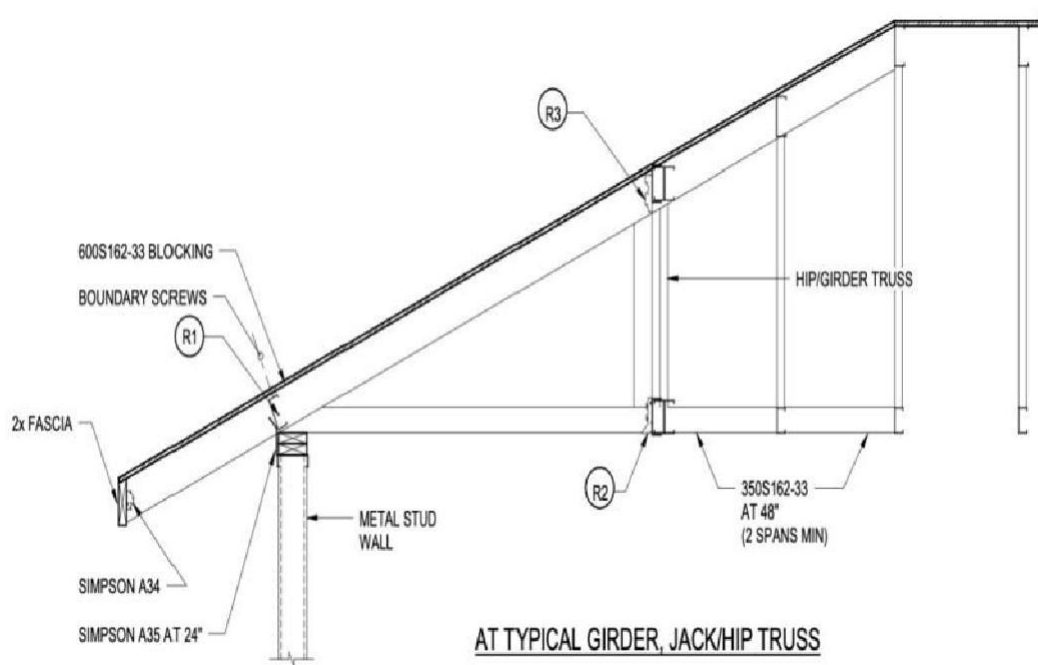
METAL FRAMING SCHEDULE				
SECTION	DEPTH "D"	FLANGE "F"	LIP "L"	THICKNESS
600S162-33	6"	1 5/8"	1 1/2"	33 MILS
600T150-33	6"	1 1/2"	-	33 MILS
350S162-33	3 1/2"	1 5/8"	1/2"	33 MILS
350S162-27	3 1/2"	1 5/8"	1/2"	27 MILS
350T150-33	3 1/2"	1 1/2"	-	33 MILS
600S150-27	3 1/2"	1 1/2"	-	27 MILS





# ROOF FRAMING

APBS HOME'S ROOF IS STRUCTURED WITH METAL TRUSSES CONNECTED TO THE WALL METAL STUDS.

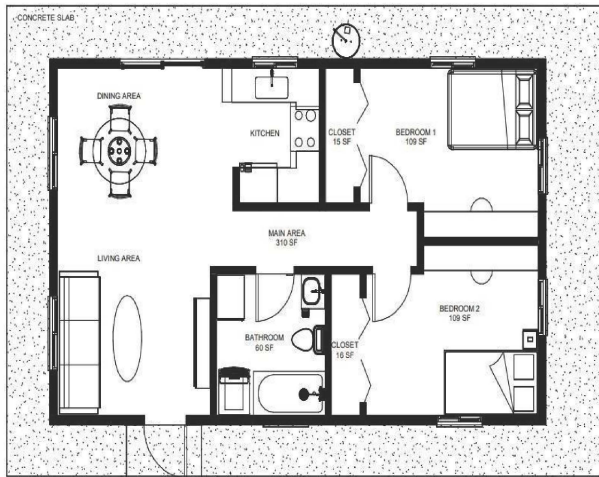




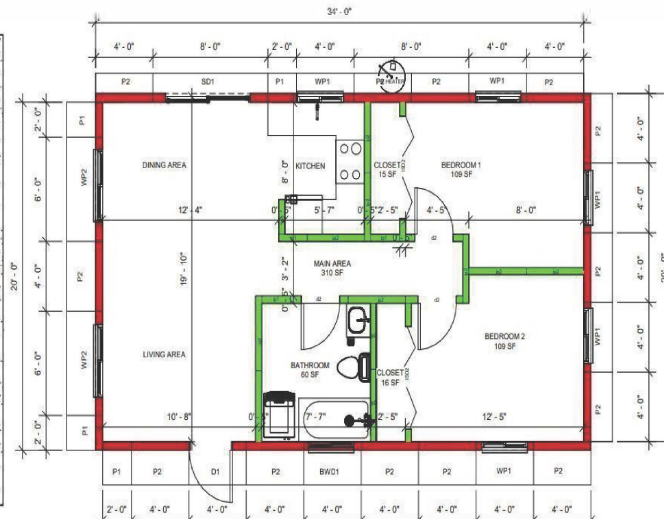
## 2 BEDROOM SINGLE HOME - 680 SF

APBS HOMES COME IN SEVERAL DESIGNS AND SIZES.  
EACH FLOOR PLAN HAS A PANEL PLAN THAT INSTRUCTS THE  
CONTRACTOR HOW TO BUILD QUICKLY AND PRODUCTIVELY, WITH  
THE QUANTITY NEEDED FOR BUILDING.

FLOOR PLAN



PANEL PLAN



### MATERIAL QUANTITY:

#### Floors - 680 sf

#### Exterior panels:

P1 - 4  
P2 - 12  
BWP1 - 1  
WP2 - 2  
WP1 - 5  
SD1 - 1  
D1 - 1

#### Interior panels:

P1 - 4  
P2 - 10  
ISD2 - 2  
D2 - 3

#### Sanitary:

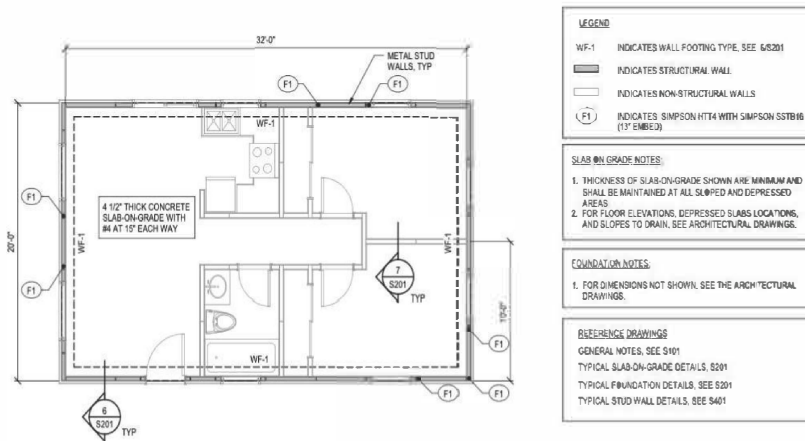
toilet - 1  
30" x 5' bath tub  
24" vanity

#### Appliances:

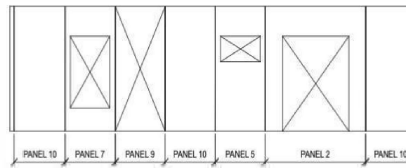
30" stove  
24" microwave  
30" refrigerator  
27" sink  
31" D x 26" W Washer+Dryer



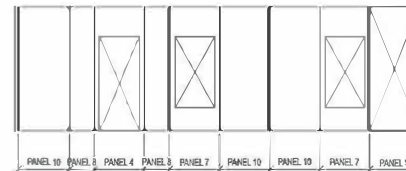
1 FOUNDATION PLAN  
S301 SCALE: 1/4" = 1'-0"



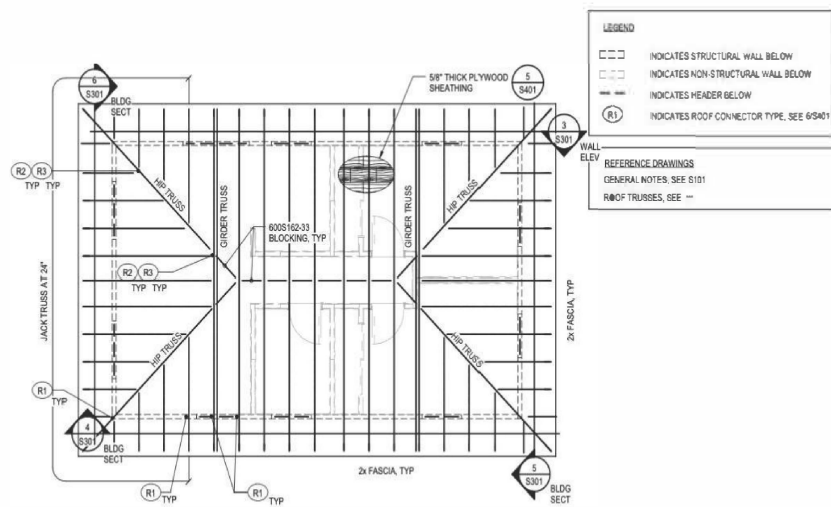
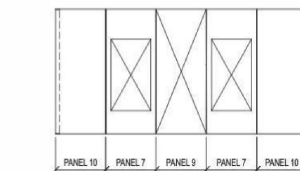
3 REAR WALL ELEVATION  
S301 SCALE: 1/4" = 1'-0"



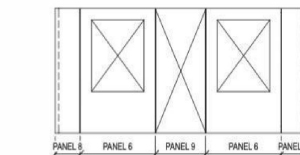
4 FRONT WALL ELEVATION  
S301 SCALE: 1/4" = 1'-0"



5 RIGHT WALL ELEVATION  
S301 SCALE: 1/4" = 1'-0"



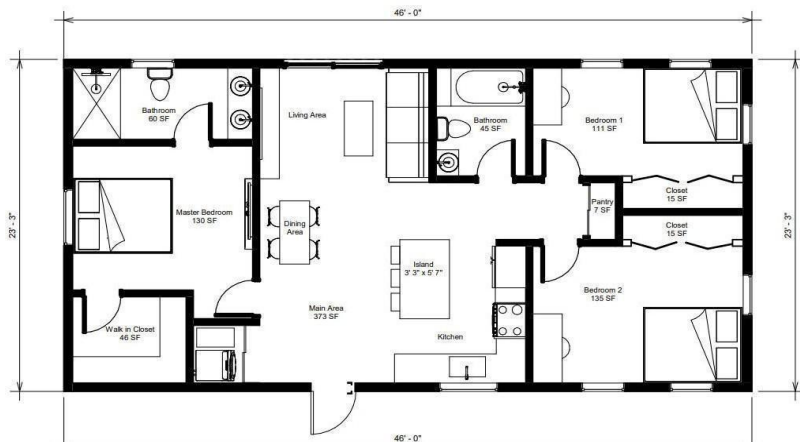
6 LEFT WALL ELEVATION  
S301 SCALE 1/4" = 1'-0"



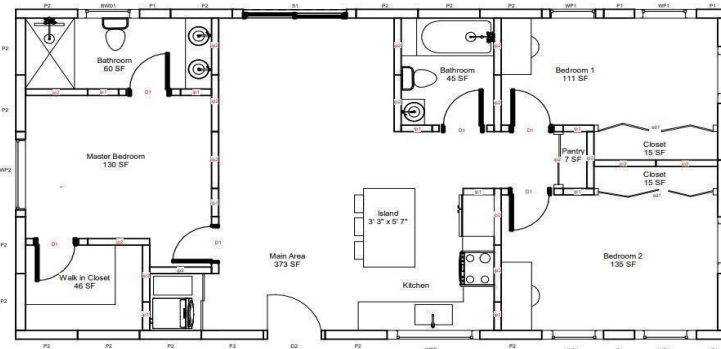


# 3 BEDROOM SINGLE HOME - 1,070 SF

FLOOR PLAN



PANEL PLAN



## MATERIAL QUANTITY

### EXTERIOR

P2 - 18  
P1 - 6  
WP1 - 6  
WP2 - 2  
SD1 - 2

### INTERIOR

ip2 - 16  
ip1 - 9  
sd1 - 2  
d1 - 7

### FLOORS

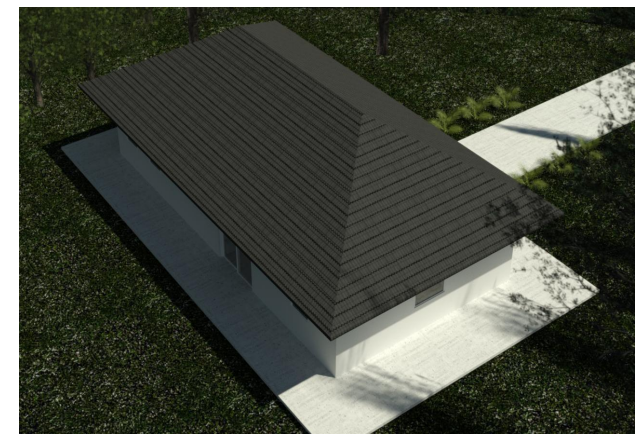
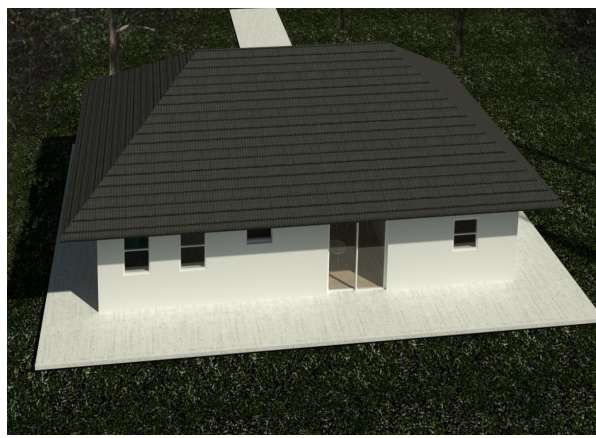
970 SF

### SANITARY

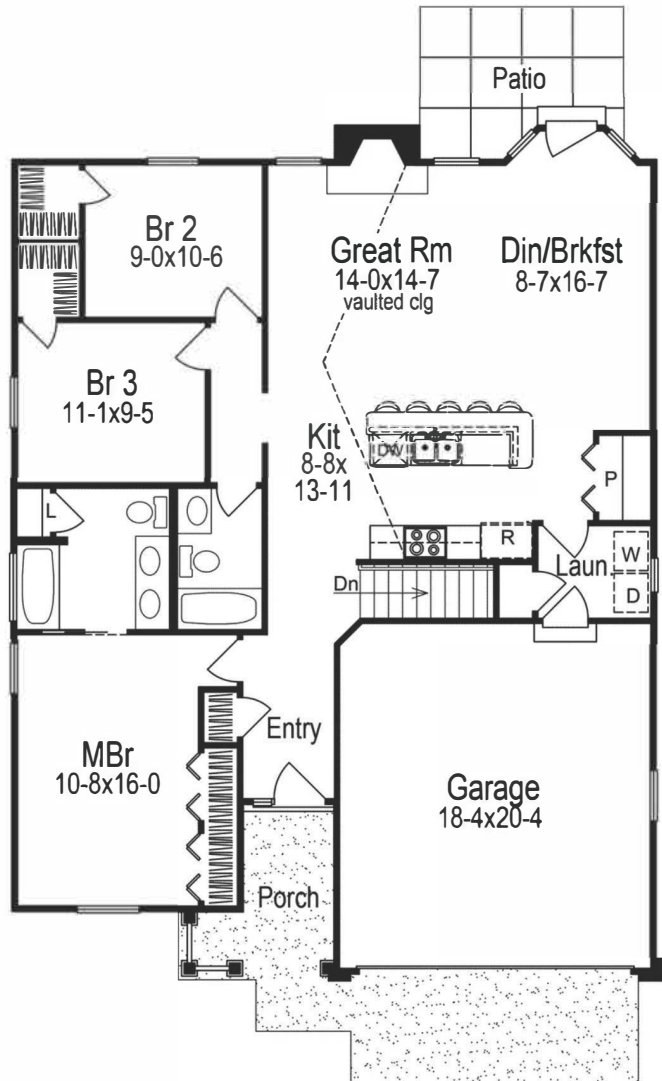
2 toilets  
1 vanity 5' x 1' 8"  
1 tub 5' x 30"  
20" vanity  
27" kitchen sink  
1 kitchen faucet  
2 bath faucets  
2 shower heads (complete sets)  
laundry+dryer

### APPLIANCES

30" FRIDGE  
30" STOVE  
24" MICRO RANGE TOP

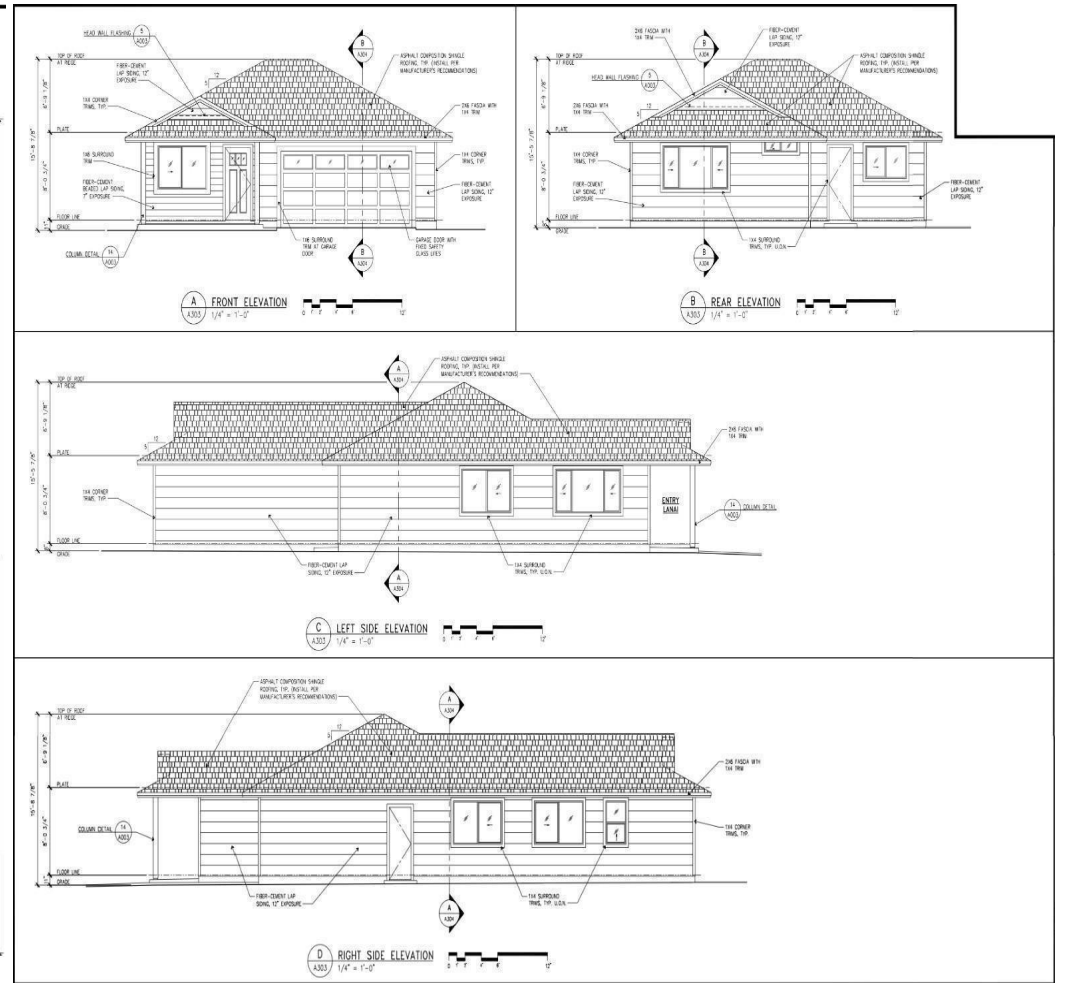
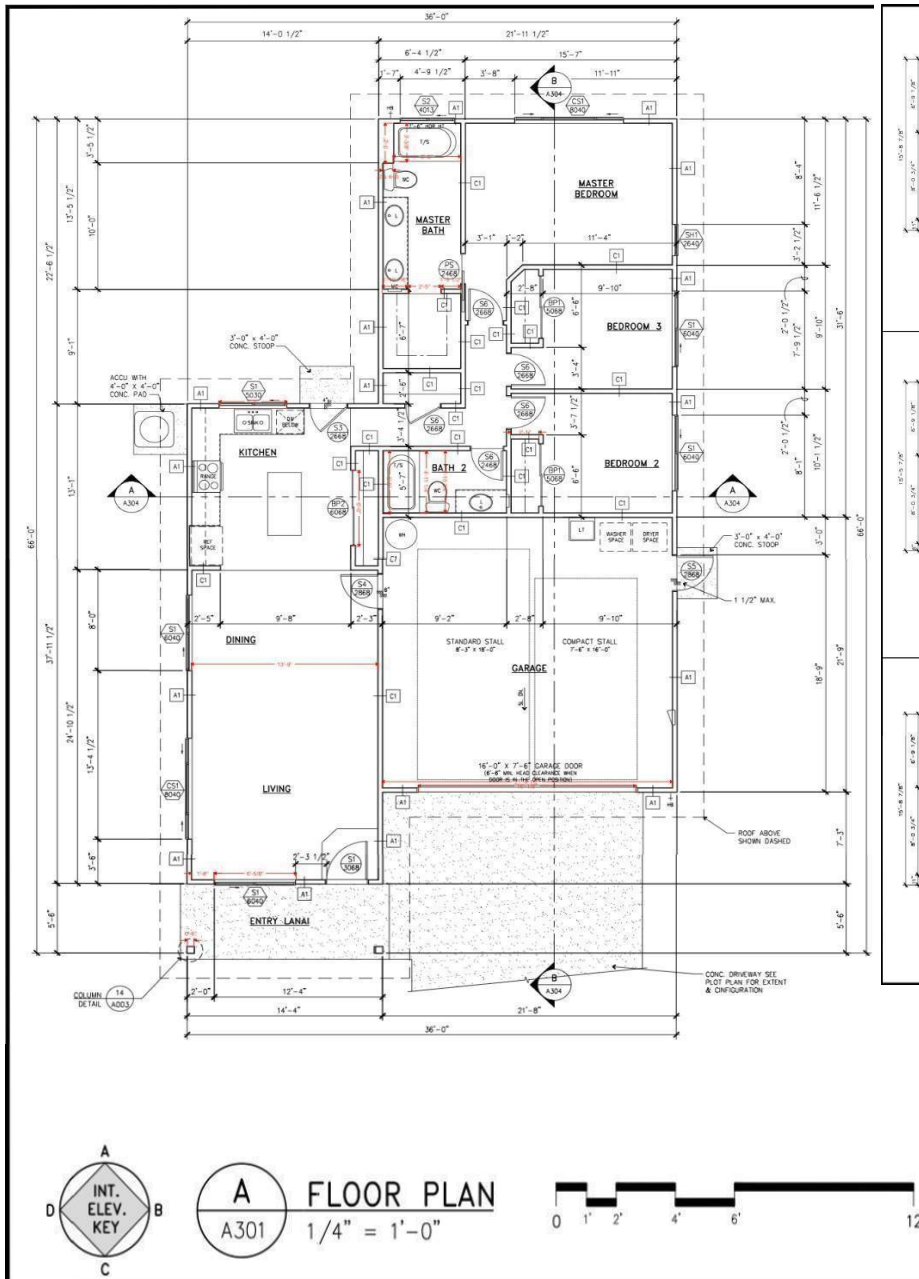


# 3 BEDROOM SINGLE HOME - 1,344 SF



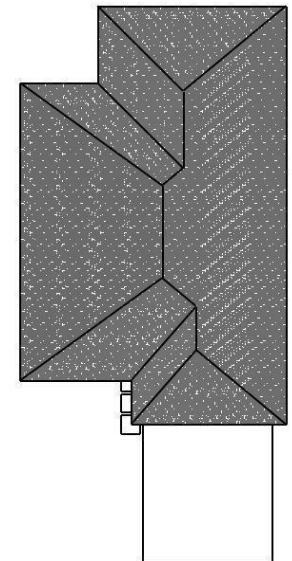
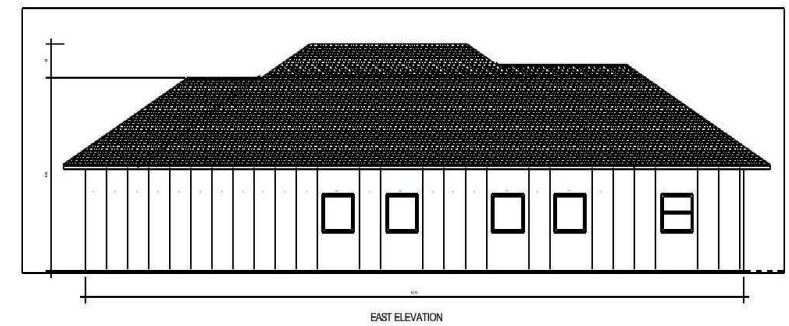
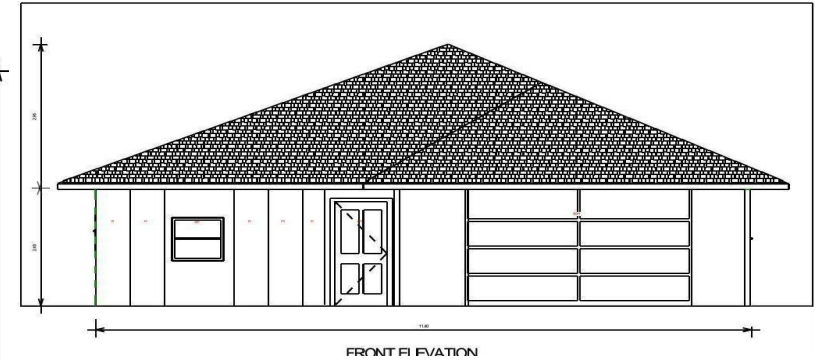
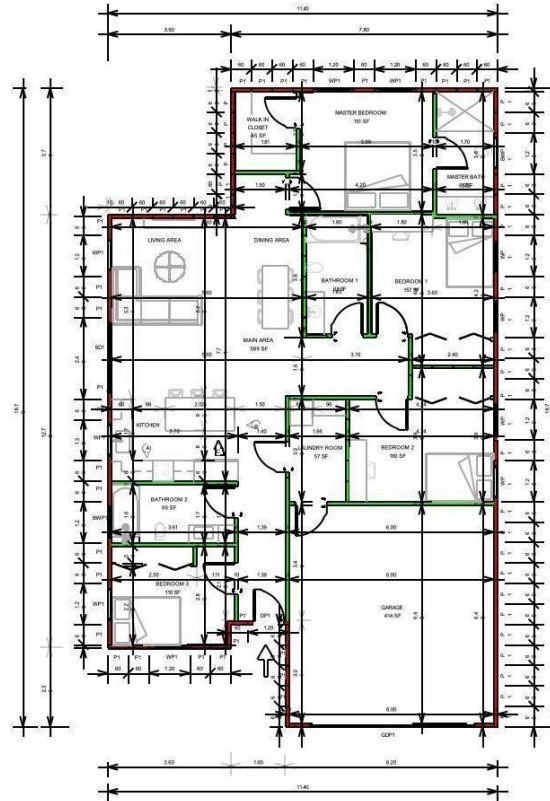
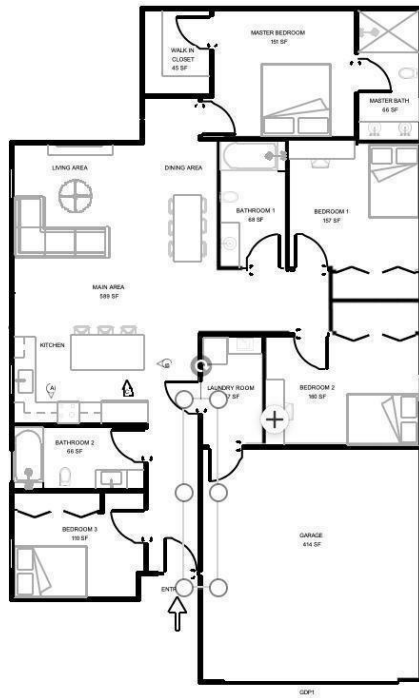


# 3 BEDROOM SINGLE HOME - 1,783 SF



LUO AREA SUMMARY			
LOCATION	FLOOR AREA	BUILDING AREA	REMARKS
LIVING	1,233.14 SF	1,233.14 SF	
ENTRY LANAI	78.83 SF	78.83 SF	
GARAGE	24.03 SF	471.25 SF	24.03 SF WH, W/D & LT SPACE
TOTALS	1,336.00 SF	1,783.22 SF	

# 4 BEDROOM SINGLE HOME - 1,460 SF

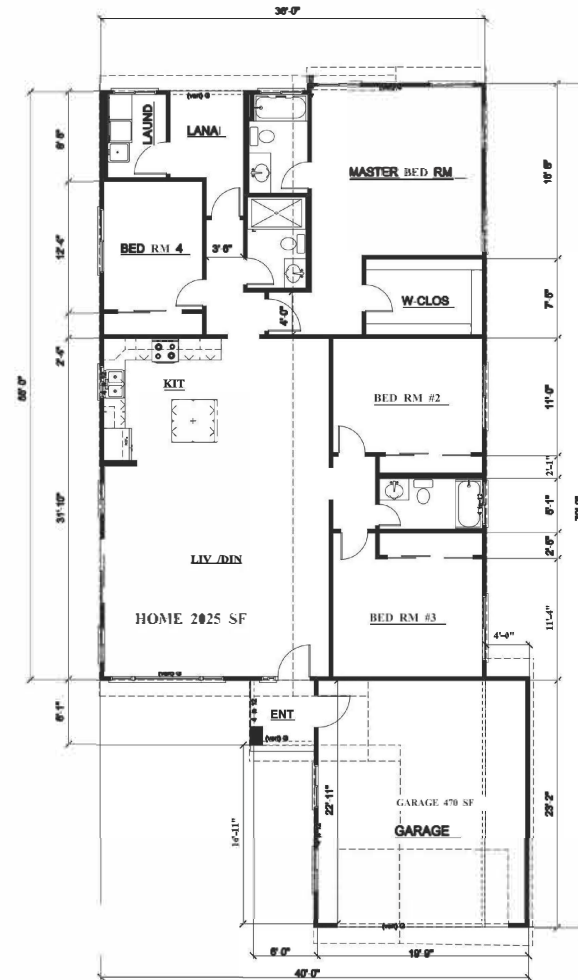


**HOME**

**3D PLAN**

**REAR / LEFT SIDE 3D**

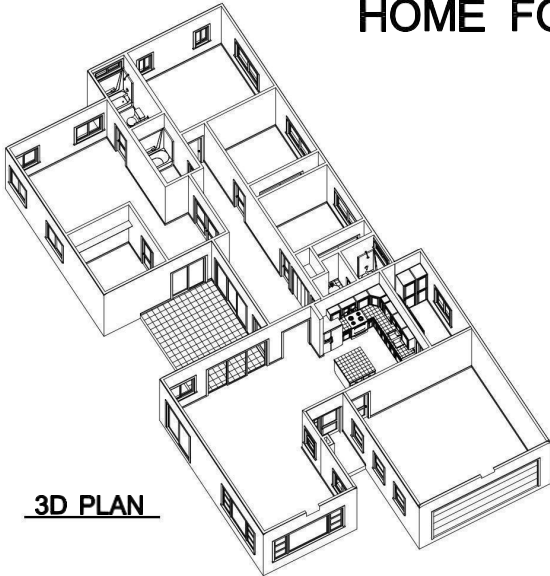
**FRONT/ LEFT SIDE 3D**



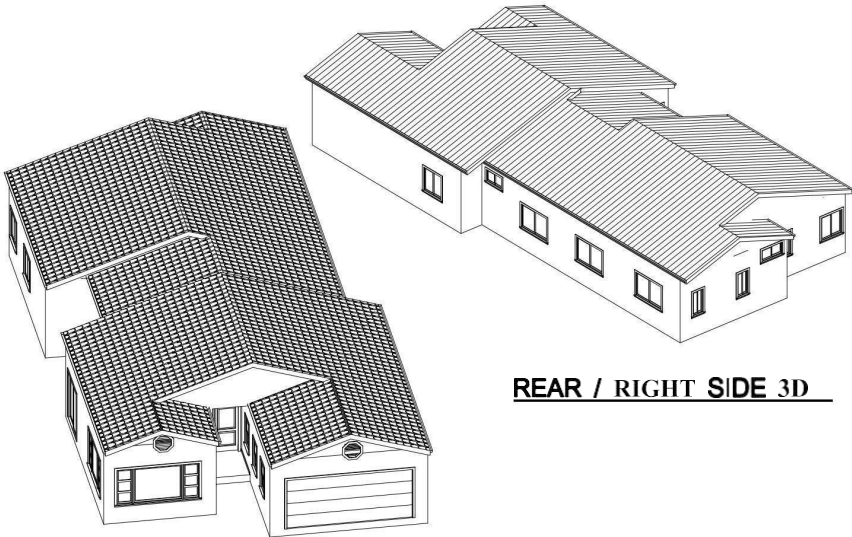
### 4 BED ROOM SCHEME 1

PRELIMINARY HOUSE PLANS FOR:

HOME FOR A 6,000 SF LOT 50 x 120

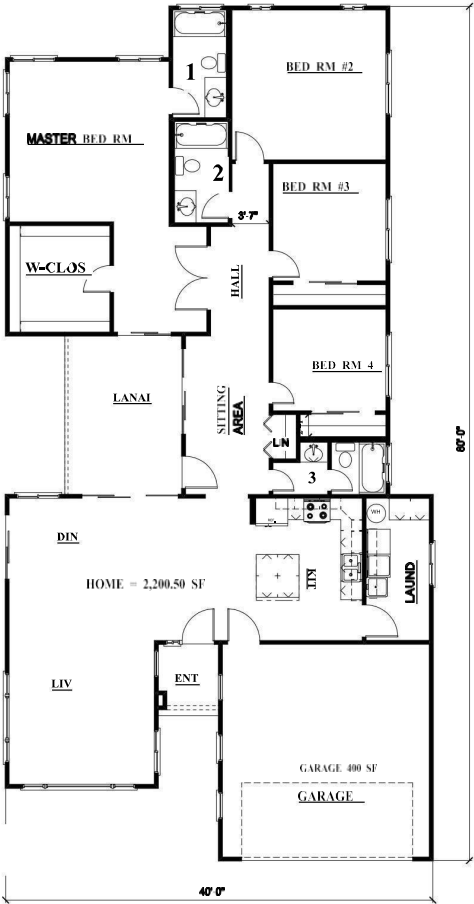


3D PLAN



REAR / RIGHT SIDE 3D

FRONT/ LEFT SIDE 3D

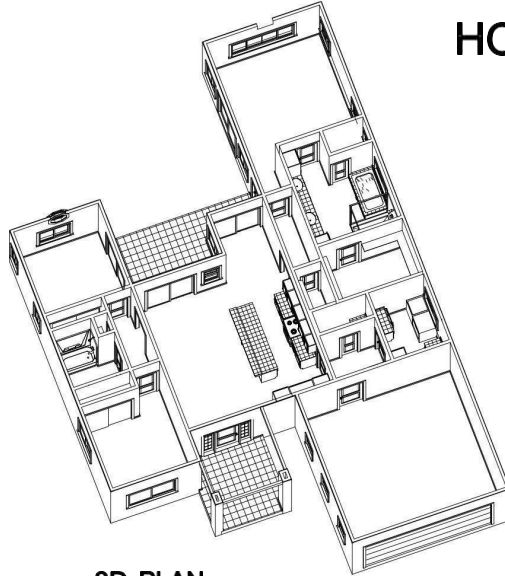


FLOOR PLAN  
4 BED ROOM SCHEME 2

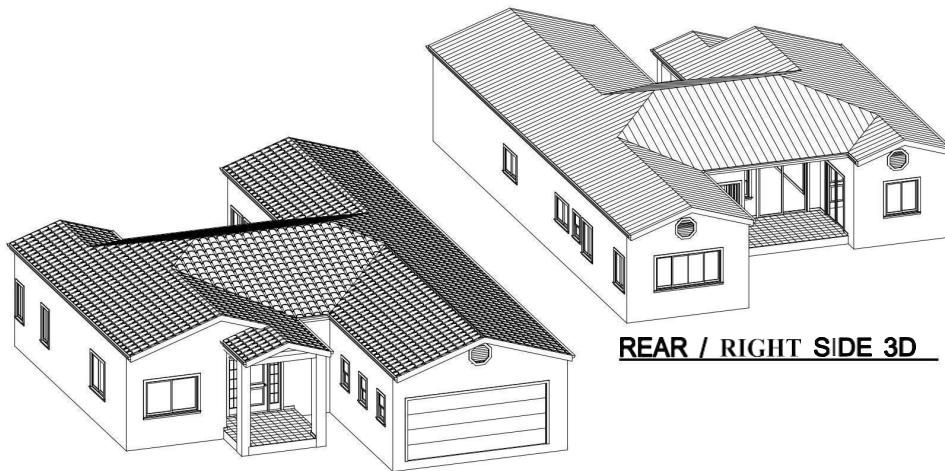
PRELIMINARY HOUSE PLANS FOR :



# HOME FOR A 5,500 SF LOT 55 x 100

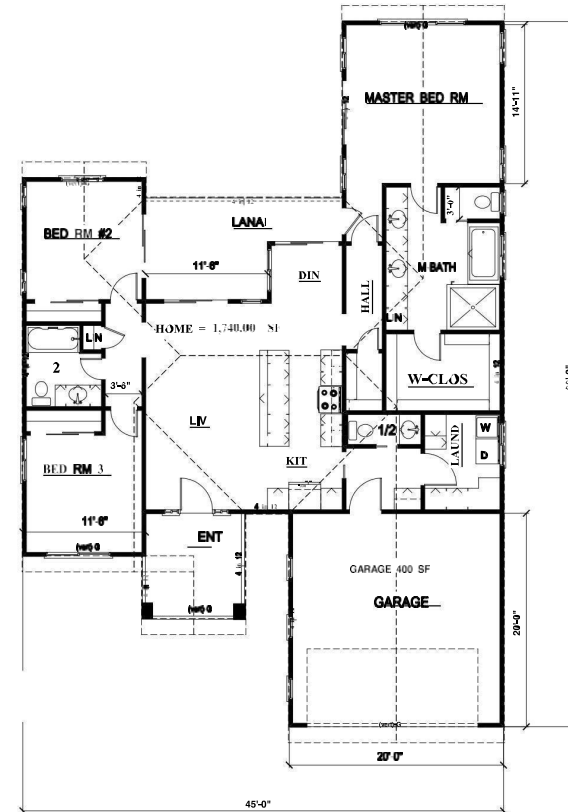


3D PLAN



FRONT/ LEFT SIDE 3D

REAR / RIGHT SIDE 3D

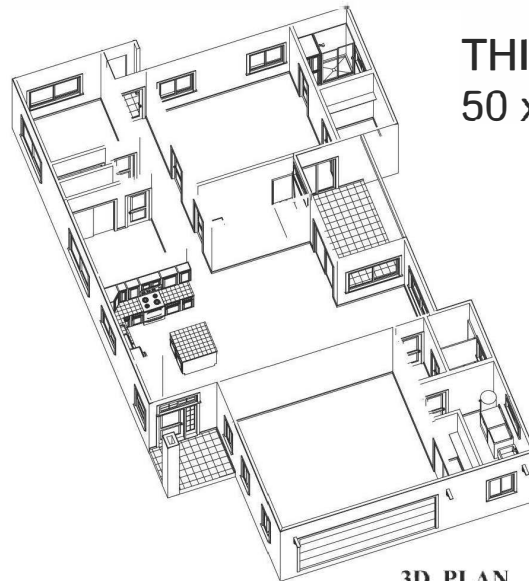


FLOOR PLAN

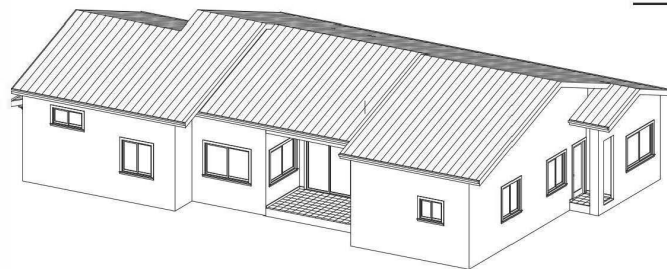
3 BED ROOM SCHEME 3

PRELIMINARY HOUSE PLANS FOR :

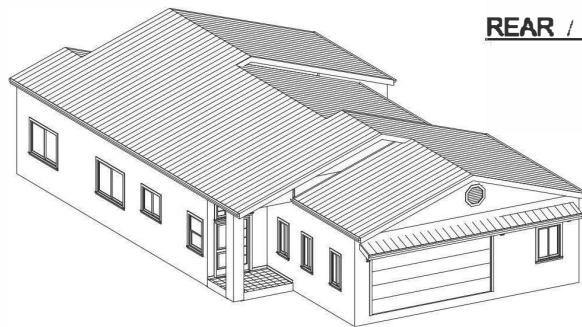
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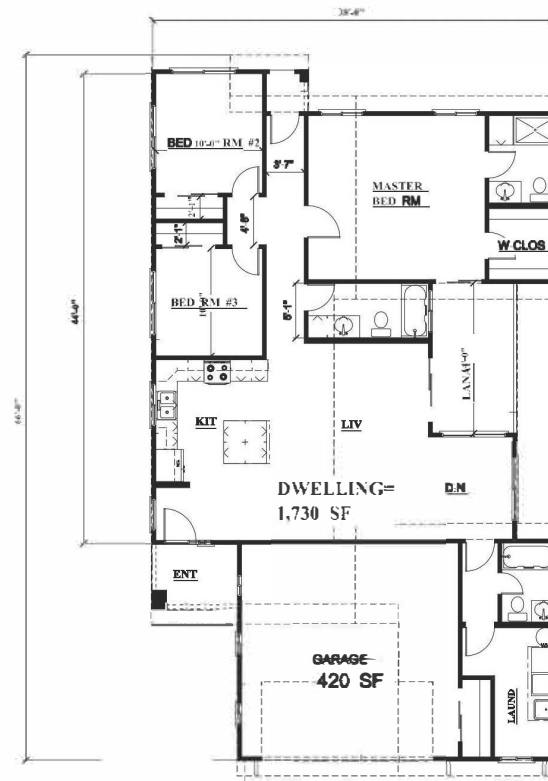
THIS PLAN MODIFIED TO FIT  
50 x 100 LOT SIZE



REAR / RIGHT SIDE 3D



FRONT/ LEFT SIDE 3D

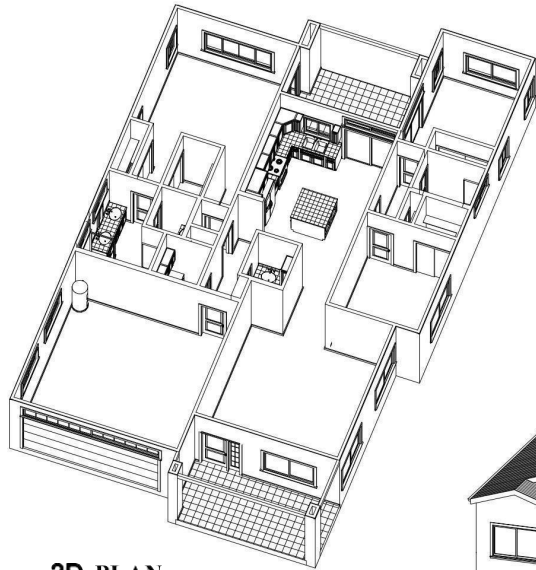


FLOOR PLAN

3 BED ROOM SCHEME 4

PRELIMINARY HOUSE PLANS FOR :

4



3D PLAN

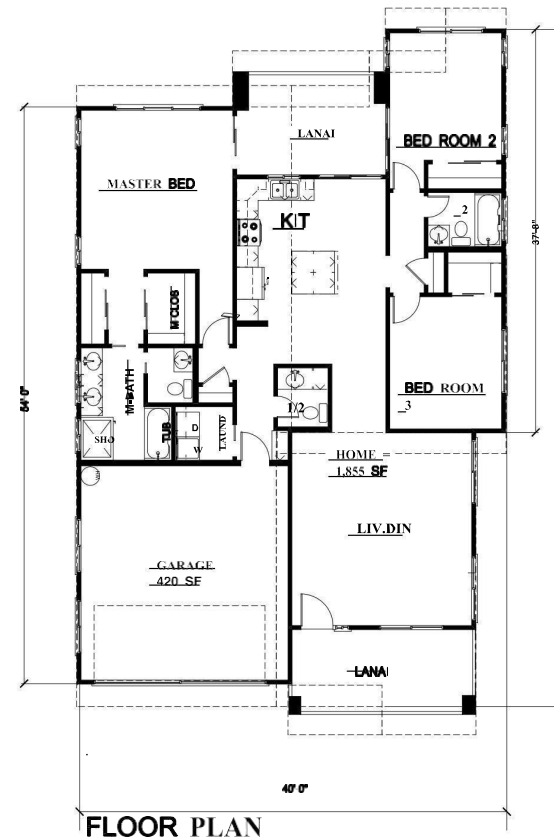


REAR / LEFT SIDE 3D



FRONT/ RIGHT SIDE 3D

THIS PLAN MODIFIED TO FIT 50 x 100  
LOT SIZE



FLOOR PLAN

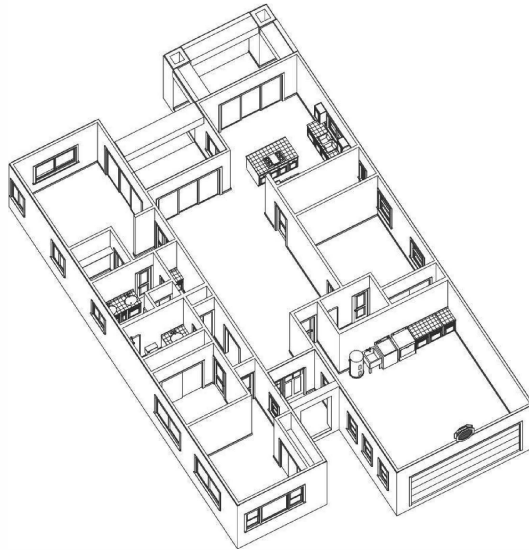
3 BED ROOM SCHEME 5

PRELIMINARY HOUSE PLANS FOR :



**5**

THIS PLAN MODIFIED TO FIT 50 x 100 LOT SIZE



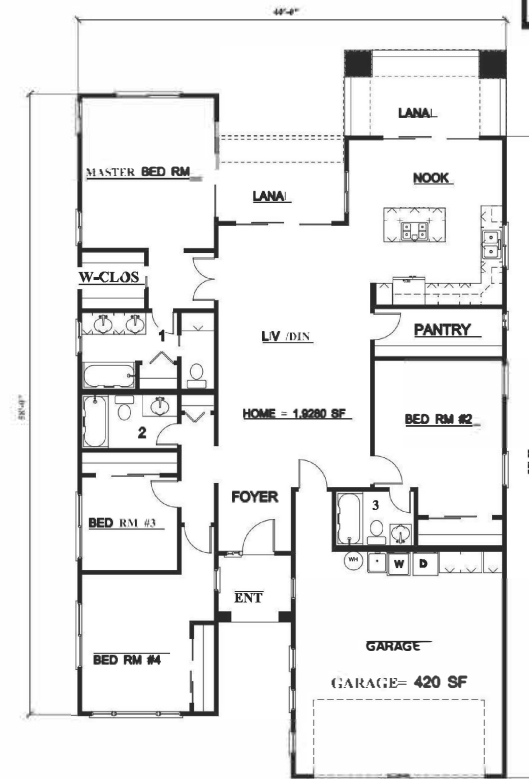
3D PLAN



FRONT/ LEFT SIDE 3D



REAR / RIGHT SIDE 3D



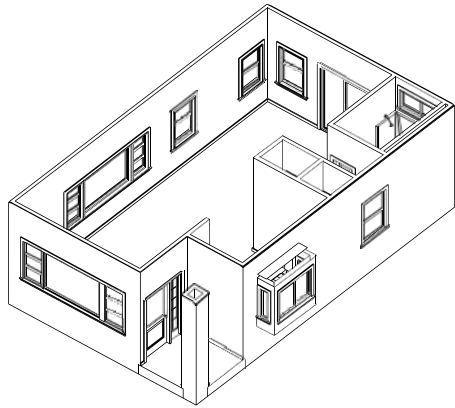
FLOOR PLAN

4 BED ROOM SCHEME 6

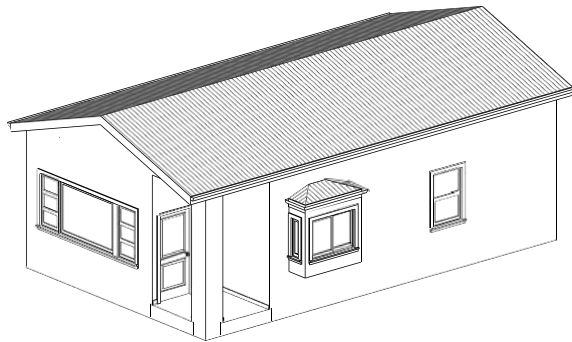
PRELIMINARY HOUSE PLANS FOR :

6

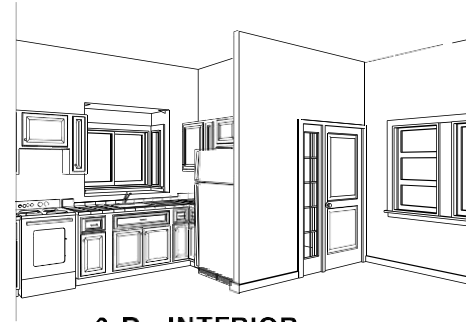




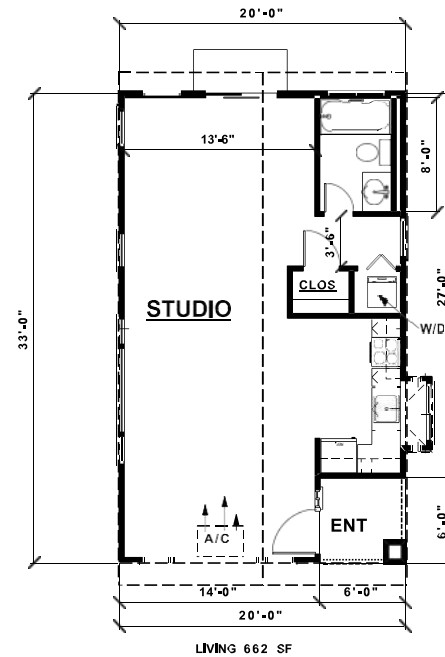
**3D BIRD VIEW**



**3D EXTERIOR VIEW**



**3 D INTERIOR**

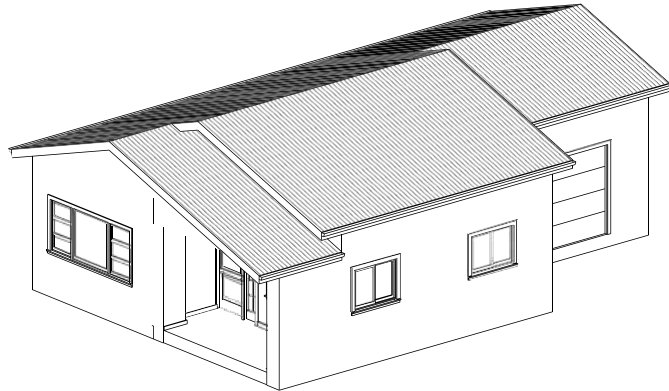


**FLOOR PLAN**

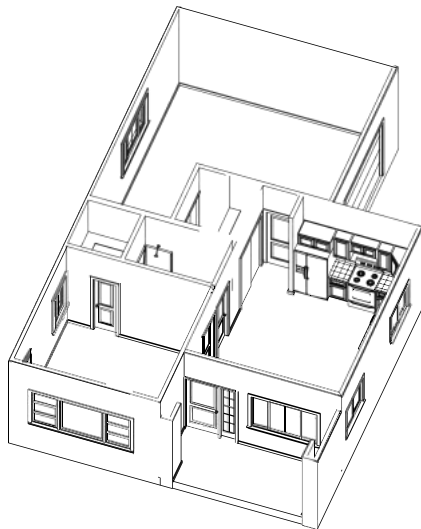
**STUDIO PLAN**

PRELIMINARY HOUSE PLANS FOR:





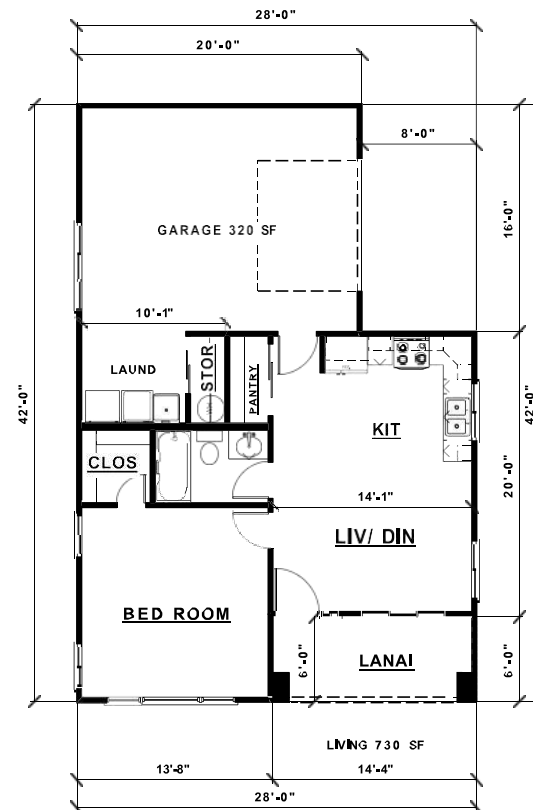
**3D BIRD VIEW**



**3D EXTERIOR VIEW**



**3 D INTERIOR**



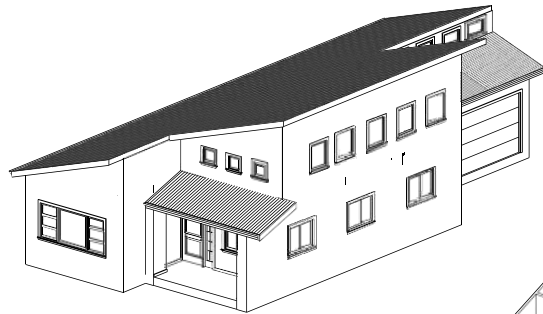
**FLOOR PLAN**

**ONE BED ROOM**

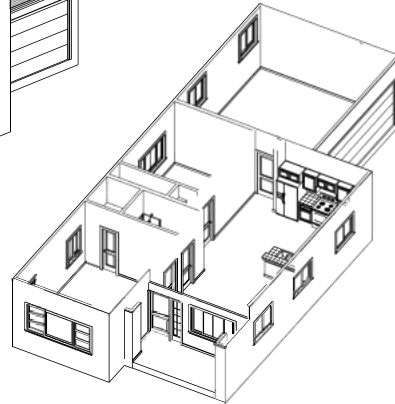
PRELIMINARY HOUSE PLANS FOR:



**8**



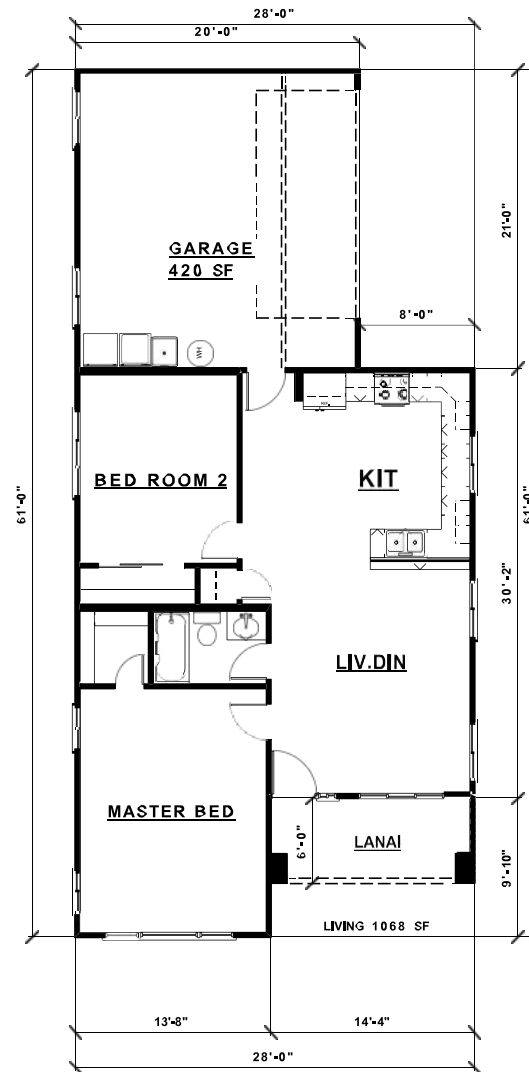
**3D EXTERIOR VIEW**



**3D BIRD VIEW**



**3 D INTERIOR**

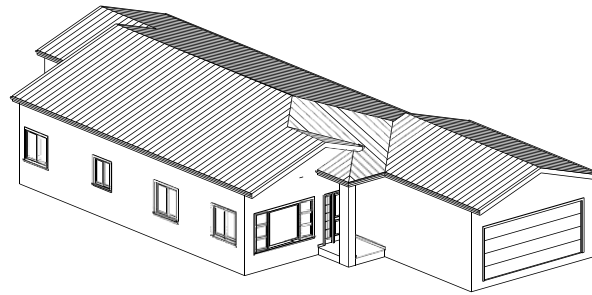
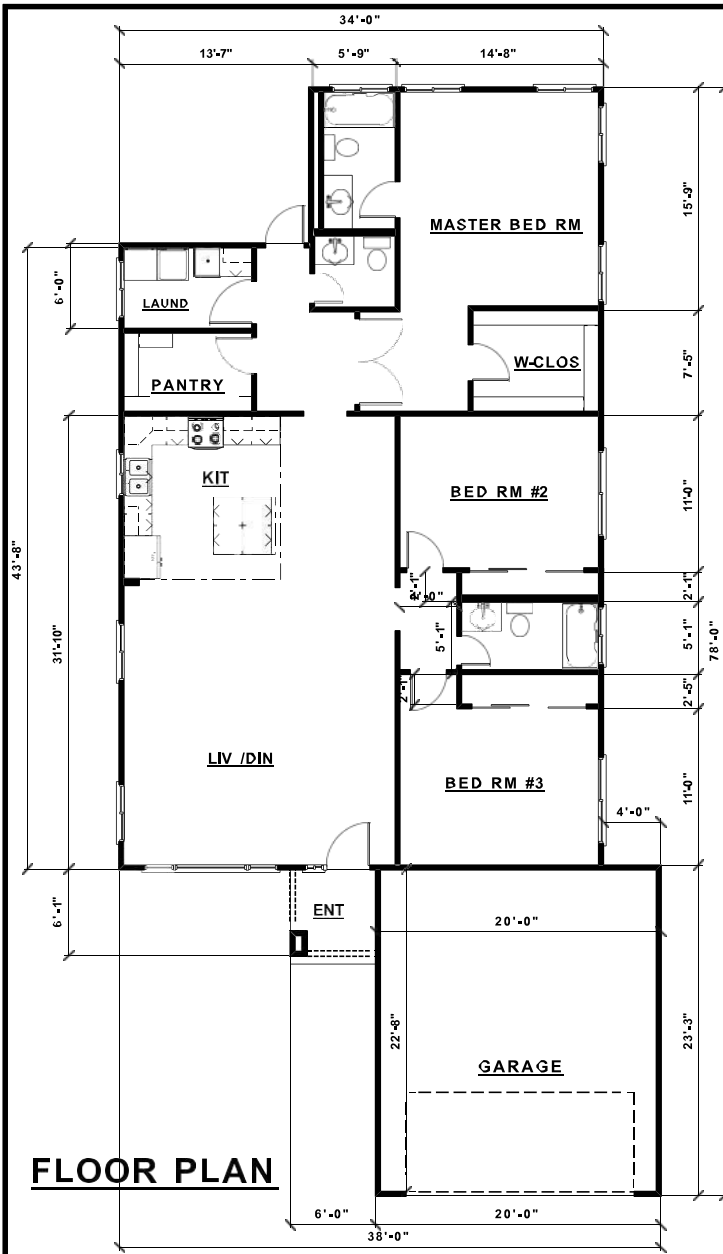


**FLOOR PLAN**

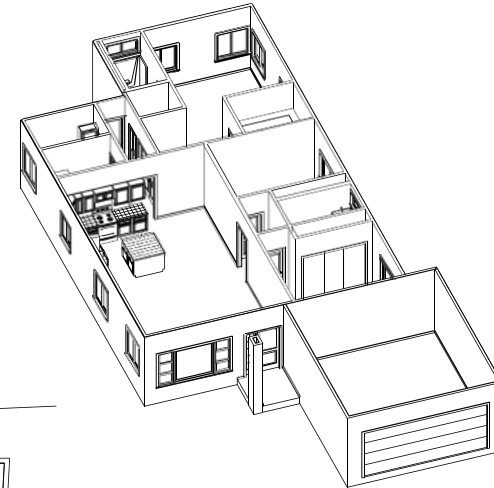
**TWO BED ROOM**

PRELIMINARY HOUSE PLANS FOR:

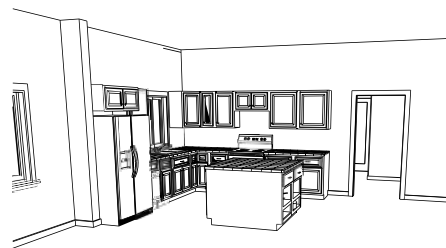
**9**



**3D EXTERIOR VIEW**



**3D BIRD VIEW**



**3 D INTERIOR**

**THREE BED ROOM**

PRELIMINARY HOUSE PLANS FOR:



**10**



