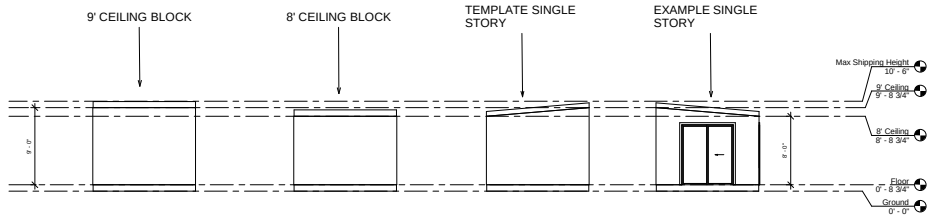
BOXY BLOCK DESIGN AND BUILD SYSTEM

THE BOXY BLOCK SYSTEM IS A MODULAR DESIGN AND CONSTRUCTION SYSTEM DEVELOPED TO SPEED UP AND MAKE MODULAR CONSTRUCTION MORE EFFICIENT WHILE STILL ENABLING SMALL BUSINESS PARTICIPATION IN MODULAR CONSTRUCTION. THE IDEA IS TO CREATE A MODULAR PLATFORM USING A FIXED DIMENSION CHASSIS AND CORE DESIGN PRINCIPLES. REPEATABLE UNITS CREATE OPPORTUNITY FOR HIGH VOLUME WHICH DECREASES COSTS WITH ECONOMY OF SCALES. APPLICATION ARE BOTH FOR LOW COST HOUSING OR GENERAL CONSTRUCTION ALL THE WAY TO HIGH END DEVELOPMENTS. THE PLATFORM IS GENERIC.

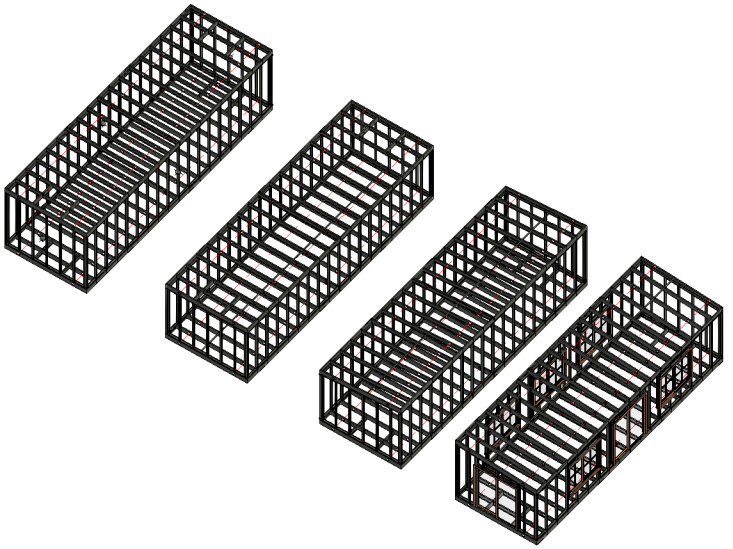
THIS SYSTEM IS ULTIMATELY INSPIRED BY SHIPPING CONTAINERS, BUT IT CONTAINERS SEVERAL IMPROVEMENTS UPON SHIPPING CONTAINERS. IT ENABLES MUCH MORE EXTENSIVE EXISTING DESIGN SOFTWARE FOR LIGHT GAUGE STEEL RATHER THAN COMPUTING THE STRENGTH OF A CONTAINER. ADDITIONALLY, WITH THE INCREASING AVAILABILITY OF ROLL FORMING MACHINES, THE STANDARDS SET FORTH BY THIS SYSTEM WILL ENABLE MORE PARTICIPATION IN THE MODULAR CONSTRUCTION WORLD. FURTHERMORE, SHIPPING CONTAIENRS ARE DIMENSIONALLY FIXED WHEREAS THIS DESIGN CAN BE CHANGED EASILY. GAUGE CAN BE ADJUSTED TO THE NEEDS OF THE CONSTRUCTION AND BUILDING HEIGHT AND WIND LOADS.

EACH BLOCK IS PRIMARILY CONTAINED WITHIN A SPECIFIC SHIPPING VOLUME. THE STANDARD VOLUME IS 12X36. HOWEVER, THERE ARE ALLOWABLE VARIENTS OF 12X48, 12X 24, AND 12X12. AND THERE ARE EVEN FURTHER MICROVARIANTS OF MULTIPLES OF 2. THESE ARE THE BLOCK SHIPPING VOLUMES; HOWEVER, IT IS RECCOMENDED TO STAY WITH THE 12X36 VOLUME AS MUCH AS POSSIBLE.

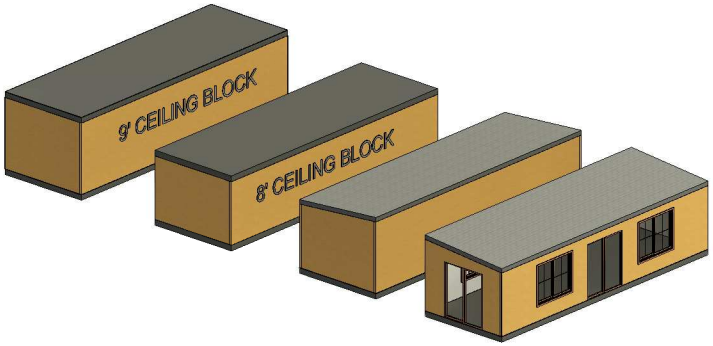
BLOCKS MAY SHIP WITH A FINISHED ROOF, THE NECESSARY SUPPORTS FOR STACKING OR NO ROOF AT ALL. BLOCKS MAY SHIP ENTIRELY AS FLAT PACKS OR AS PANELS. BLOCK VARIENTS MAY HAVE 8' OR 9' CEILING DEPENDING ON BUILDING DESIGN REQUIREMENTS.



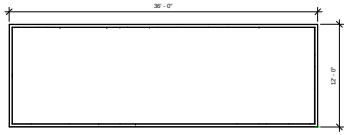
1 East
3/16" = 1'-0"



3 ISO FRAMES



2 ISO



4 Standard Dims
3/16" = 1'-0"

BOXY

BLOCK DESIGN TEMPLATE

BOXY, LLC

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WEBSITE: www.boxyconstruction.com

Date	6/15/21
Drawn By	MATEO ATWI
A101	OVERVIEW
Scale	3/16" = 1'-0"

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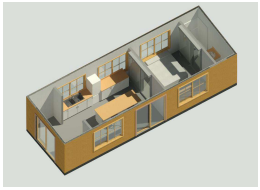
BOXY BLOCK DESIGN AND BUILD EXAMPLE

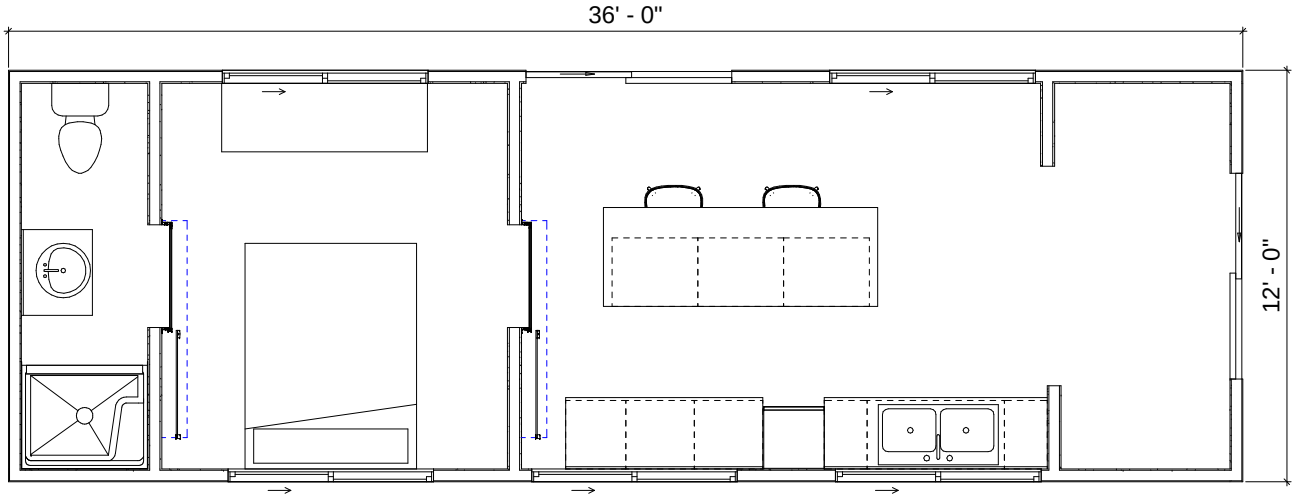
THIS BLOCK DESIGN AND BUILD SYSTEM IS DESIGNED TO BE MODIFIED AND WORKED ON BY PROFESSIONALS AND HOBBYIST ALIKE. THE PLATFORM IS ENGINEERED TO REDUCE THE TIME IT TAKES THE AVERAGE PERSON TO BUILD AND DEVELOP THE BUILDING. IT ENABLES CREATIVITY AND ALLOWS US TO BYPASS THE TIME SPENT DOING THE BEAURAUCRATIC PROCESS REQUIRED TO ENGINEER AND PERMIT BUILDINGS.



2 EXAMPLE UNIT RENDER
12" = 1'-0"

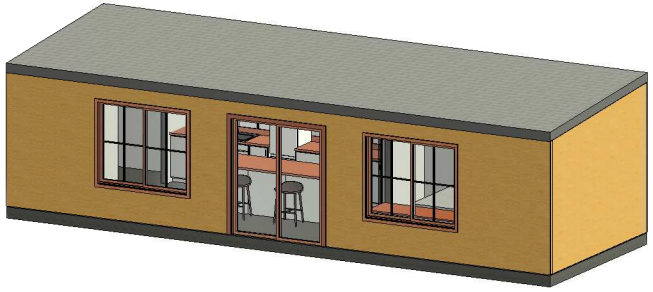
THE STANDARD BLOCK IS 432 SQFT, SO IT IS MORE SPACIOUS THAN AN SIMILAR SHIPPING CONTAINER WHILE BEING COMPETITIVE IN PRICE RANGE. AT $135 PER SQFT, THIS WHOLE BUILDING BEFORE PROPERTY COSTS $58,320.

1 UNIT RENDER
12" = 1'-0"



3 Floor Example
3/4" = 1'-0"

THE DESIGN DEMONSTRATED ABOVE IS MEARLY AN EXAMPLE OF WHAT CAN BE DONE. IT IS BY NO MEANS A REQUIREMENT TO BE LAID OUT AS SUCH. THERE COULD FEASIBLY BE A SECOND BEADROOM IN A SINGLE UNIT, OR TWO UNITS COULD COME TOGETHER TO FORM ONE UNIT.



4 ISO EXAMPLE

BOXY

BLOCK DESIGN TEMPLATE

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WEBSITE: www.boxyconstruction.com

Date	6/15/21
Drawn By	MATEO ATWI
A102	EXAMPLE UNIT
Scale	As indicated

6/15/2021 2:49:57 PM