

# BIOTEKT

## DESIGN CATALOG



# BIOTEKT, THE FUTURE NOW



**BIOTEKT = BIO ARCHITECTURE**, A new way to build, sheltered and protected by the earth and nature. Just imagine spaces as invisible from the outside as a cave, but airy and full of natural light inside ... Houses that will pay for themselves over time, reducing heating or cooling bills and maintenance... Living surrounded by nature but separated from its unwanted effects like humidity and extremes of temperature and weather by a perfect waterproof barrier... And imagine getting all this at costs equal to or lower than ordinary buildings.

# ECOSPHERE® AND OASIS®



**BIOTEKT** systems are divided into two distinct categories, **ECOSPHERE** and **OASIS**; both of them are based on a super-strong, insulated, composite shell made from panels of **BIOCOMPOSITE®** a new construction material developed by BIOTEKT. The shells are formed by various shapes that can be combined to form an infinite variety of floor plans, with domed and vaulted roofs and straight walls. In the **ECOSPHERE** the shell is then covered with earth and plants to form a massive structure, and in **OASIS** it is covered with stabilized sand and a mixture of local materials.

# ECOSPHERE



**ECOSPHERE** is a modular construction system consisting of a lightweight but strong shell, made of composite materials, designed to be covered by earth and vegetation. An Ecosphere can be built above grade, semi- underground, or totally underground. If the **ECOSPHERE** is mostly above grade the earth is structured using various low-cost reinforcing systems that we provide or which can be locally sourced. These simple methods can also be refined to provide even greater energy savings in colder climates using **Passive Solar (PAHS)** systems in which **energy savings can reach up to 100%**, needing little or no external heating sources even in the harshest weather conditions.



# OASIS



Over 300 million people live in the world's deserts and semi-deserts, where a vegetated building system like the Ecosphere would be impractical to maintain. At the same time buildings in these dry climates with extremes of heat and cold can benefit greatly from the principles of earth-sheltering. For these reasons we have developed **Oasis**, designed for deserts and arid regions. **Desert sand**, one of the planet's most abundant materials, is generally considered useless for building because its grains are rounded like tiny marbles, instead of angular as in beach or river sand. However, stabilized and in combination with **composites** it can be used to create beautiful, durable and **energy saving buildings**.



# BUILDING PROCESS



The new way to build, high tech composites made from recycled materials and structured earth systems are in a class of their own in the modern housing and building industry. Materials that will last for centuries with no sign of decay and Architecture that responds to the environment perfectly are creating a new paradigm shift in construction techniques...





# PROTOTYPE HOMES

Our systems are modular and have been designed to adapt to your needs; There is an endless range of variations in design that can be formulated to fit almost any project. Because of the intimate contact of our buildings with the surrounding terrain, climate and topography, every home or other type of construction can be a unique design, taking into account all variables and conditions to create the perfect design...

The following section is a selection of our growing number of prototypes you can use as is, or customize any way you like, all of which have started out as individual designs for clients...



# SEA GRAPE

276 SQUARE FEET – ONE ROOM CABIN



# SEA GRAPE

## PLAN VIEW



# SEA GRAPE

## CROSS SECTION



# COCONUT

484 SQUARE FEET – ONE BEDROOM





# COCONUT

PLAN VIEW

# COCONUT

## CROSS SECTION

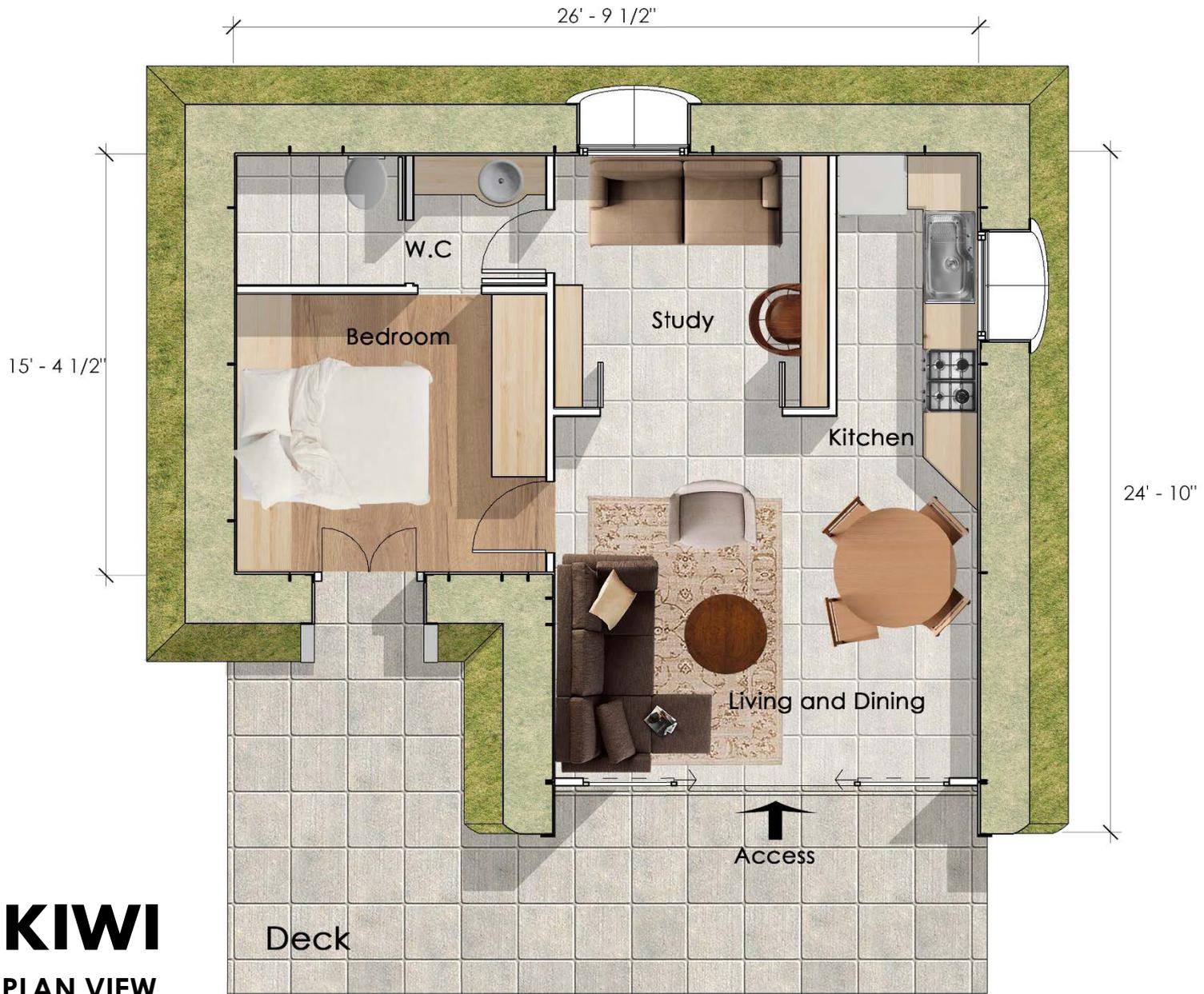




# KIWI

484 SQUARE FEET / ONE BEDROOM + STUDY





**KIWI**  
**PLAN VIEW**

7/15/2018

# KIWI

CROSS SECTION



# NISPERO

624 SQUARE FEET – ONE BEDROOM



# NISPERO

## PLAN VIEW



# NISPERO

## CROSS SECTION



# MANGOSTEEN

624 SQUARE FEET – TWO BEDROOMS



# MANGOSTEEN

## PLAN VIEW





# MANGOSTEEN

## CROSS SECTION



# MANGO

1059 SQUARE FEET – TWO BEDROOMS W/ PORCHES



# MANGO

## PLAN VIEW



# MANGO

## CROSS SECTION



# MACADAMIA

1250 SQUARE FEET – TWO BEDROOMS + STUDY



# MACADAMIA

## PLAN VIEW



# MACADAMIA

## CROSS SECTION



# ASHER

1450 SQUARE FEET – THREE BEDROOMS





# ASHER

## PLAN VIEW



# ASHER

CROSS SECTION



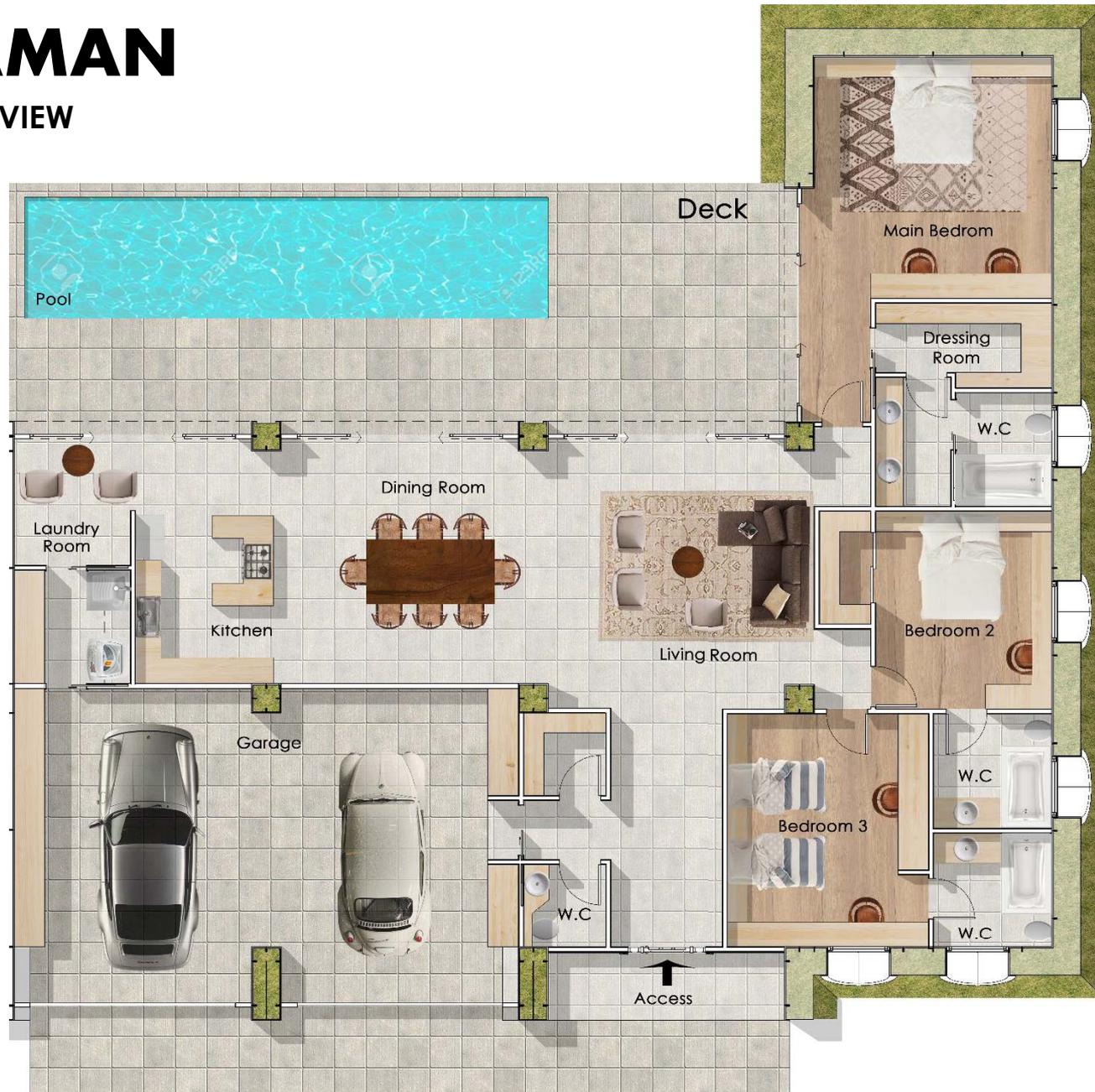
# SAMAN

2900 SQUARE FEET – THREE BEDROOMS + GARAGE



# SAMAN

## PLAN VIEW



# SAMAN

## CROSS SECTION



# SAMAN

## CROSS SECTION



# COMMERCIAL PROTOTYPES

These designs are examples of hotel and resort accommodations...



# PEACH

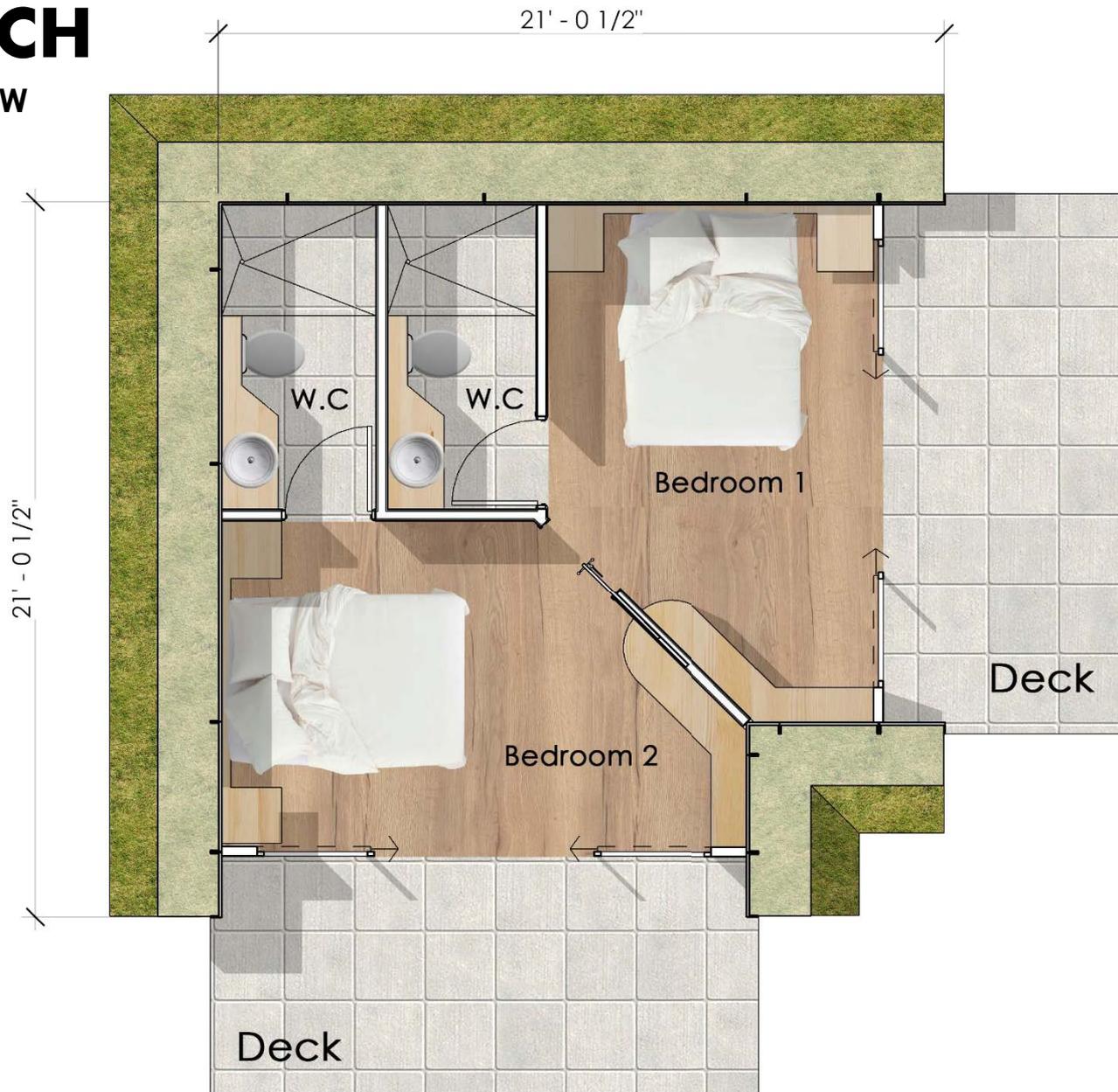
420 SQUARE FEET – 2 BEDROOM UNIT





# PEACH

## PLAN VIEW



# PEACH

CROSS SECTION



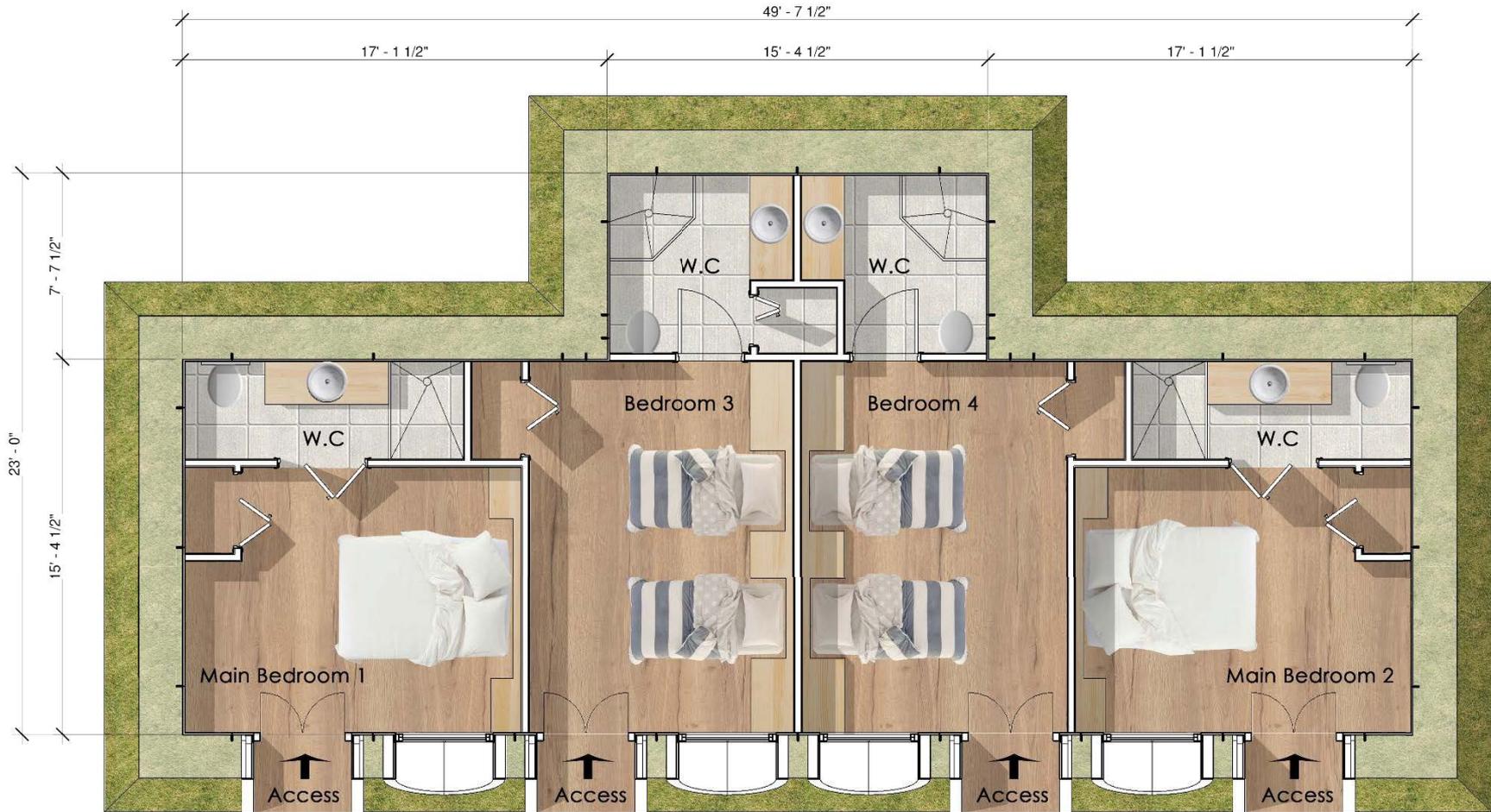
# BUNGALOWS

880 SQUARE FEET – 4 BEDROOM UNIT



# BUNGALOWS

## PLAN VIEW



# LYCHEE

1000 SQUARE FEET – 2 CABIN UNIT WITH PORCHES



# LYCHEE

## PLAN VIEW



# LYCHEE

## CROSS SECTION



# OPTIONS

Garages and porches that can be used to complement any model...





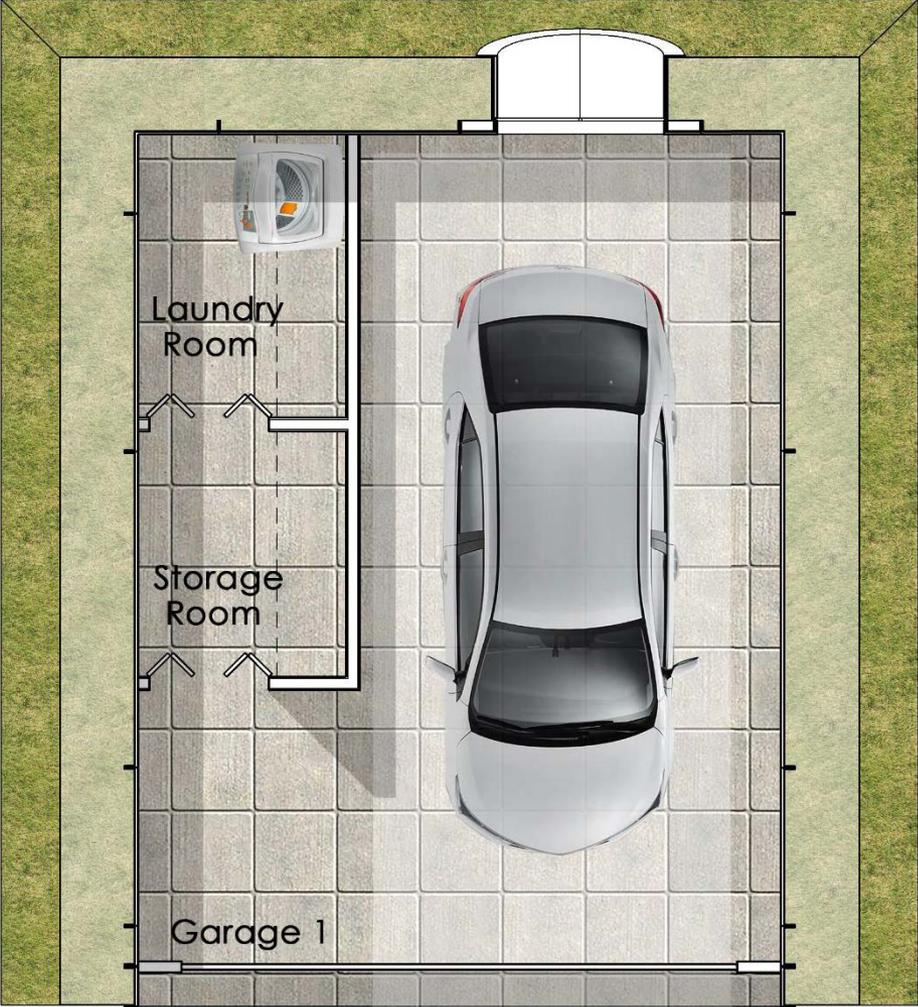
# SINGLE GARAGE

338 SQUARE FEET WITH LAUNDRY AND UTILITY ROOM



# SINGLE GARAGE

PLAN VIEW



# SINGLE GARAGE

CROSS SECTION



# DOUBLE GARAGE

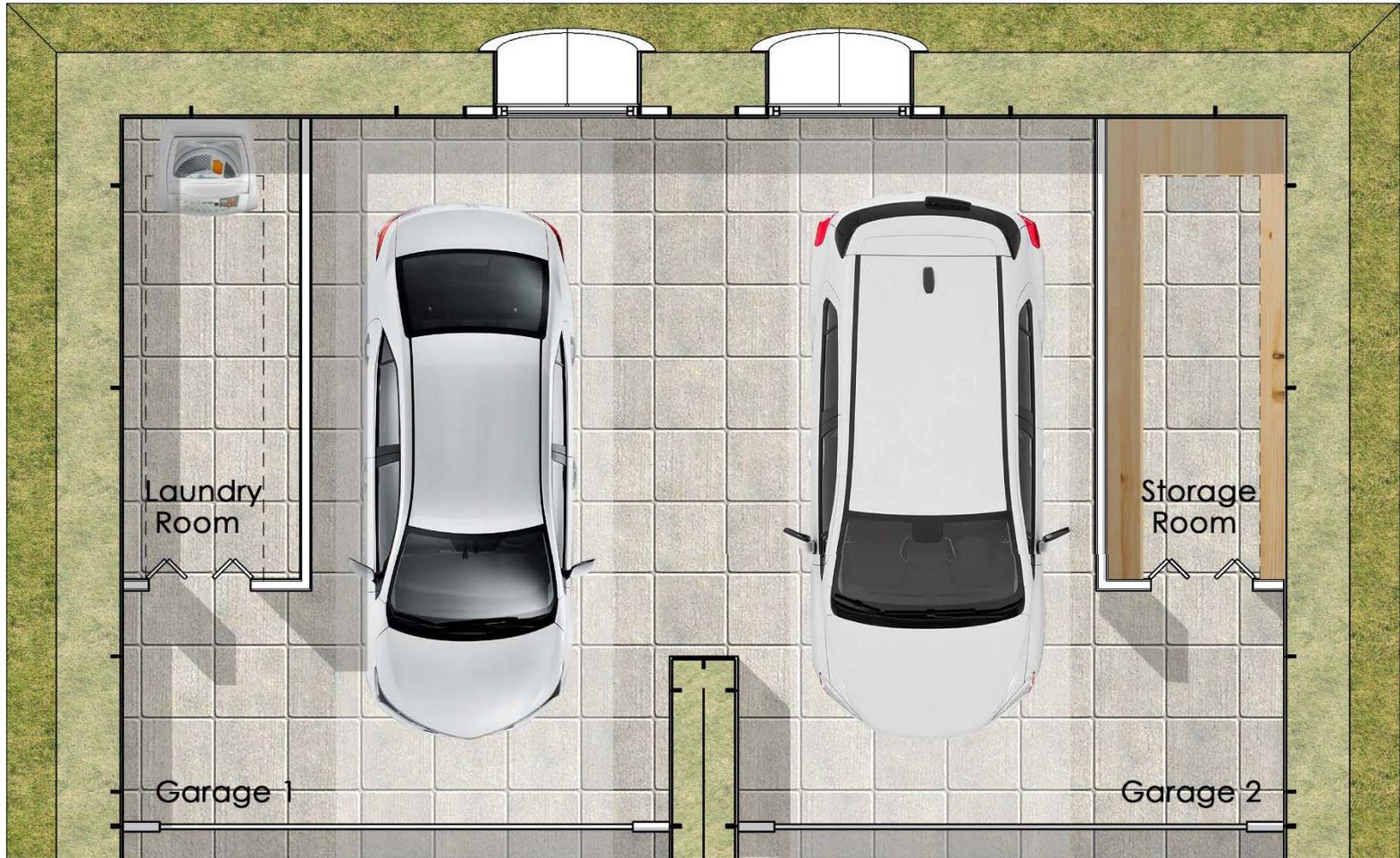
696 SQUARE FEET WITH LAUNDRY AND UTILITY ROOM



7/15/2018

# DOUBLE GARAGE

## PLAN VIEW



# DOUBLE GARAGE

CROSS SECTION



# COVERED PORCH MODULE

160 SQUARE FEET YOU CAN ADD TO ANY DESIGN...



# COVERED PORCH MODULE





# PRICING

# MANUFACTURERS SUGGESTED RETAIL PRICES\*

## **HOMES:**

SEA GRAPE	\$ 18,995.00
COCONUT	\$ 28,995.00
KIWI	\$ 32,495.00
MANGOSTEEN	\$ 34,495.00
NISPERO	\$ 34,995.00
MANGO	\$ 54,495.00
MACADAMIA	\$ 58,495.00
ASHER	\$ 71,995.00
SAMAN	\$ 129,495.00

## **COMMERCIAL:**

PEACH	\$ 23,995.00
BUNGALOWS	\$ 49,995.00
LYCHEE	\$ 50,495.00

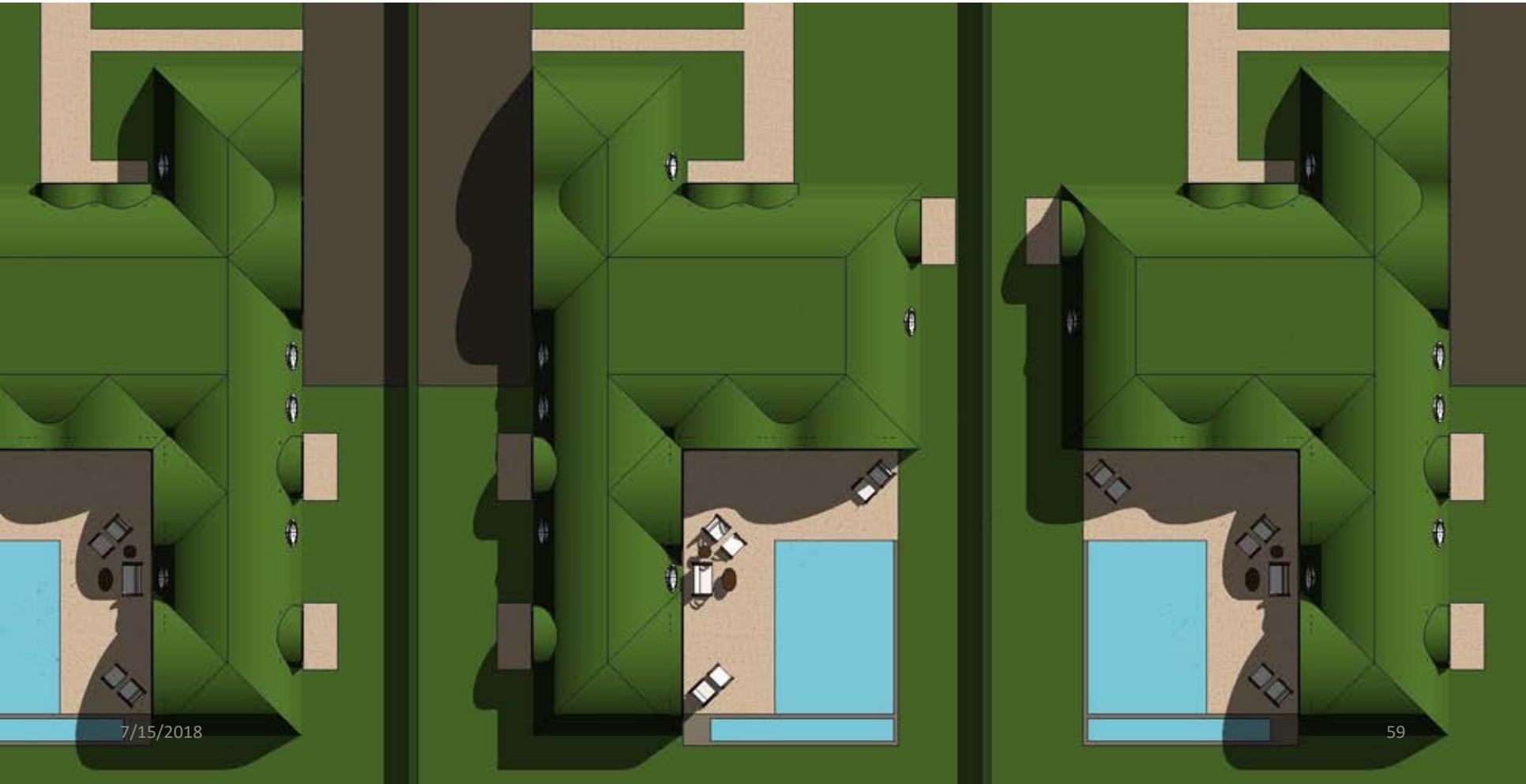
## **Options:**

SINGLE GARAGE	\$ 19,995.00
DOUBLE GARAGE	\$ 34,995.00
PORCH MODULE	\$ 5,995.00

\*Prices are for Biocomposite™ Shell and Construction Documents (CD's). Talk to your local dealer for turnkey pricing and special discounts..

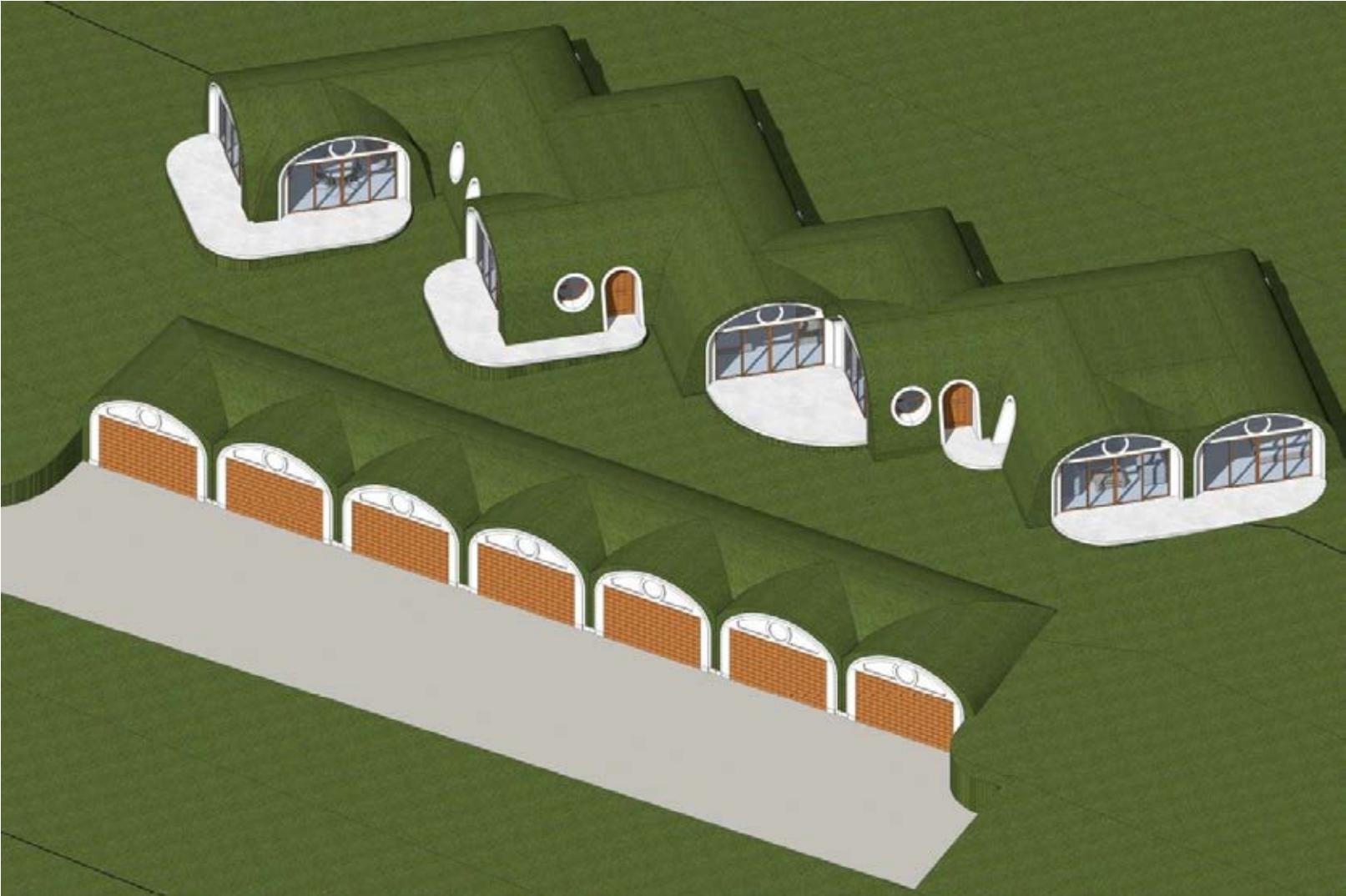
# ASSORTED FLOOR PLANS...

The following is a selection of floor plans from custom designs for various projects.. Some of them will be incorporated eventually into our prototype section while others are very individualized designs.. Feel free to get ideas for your custom design or request a quote on any of these.

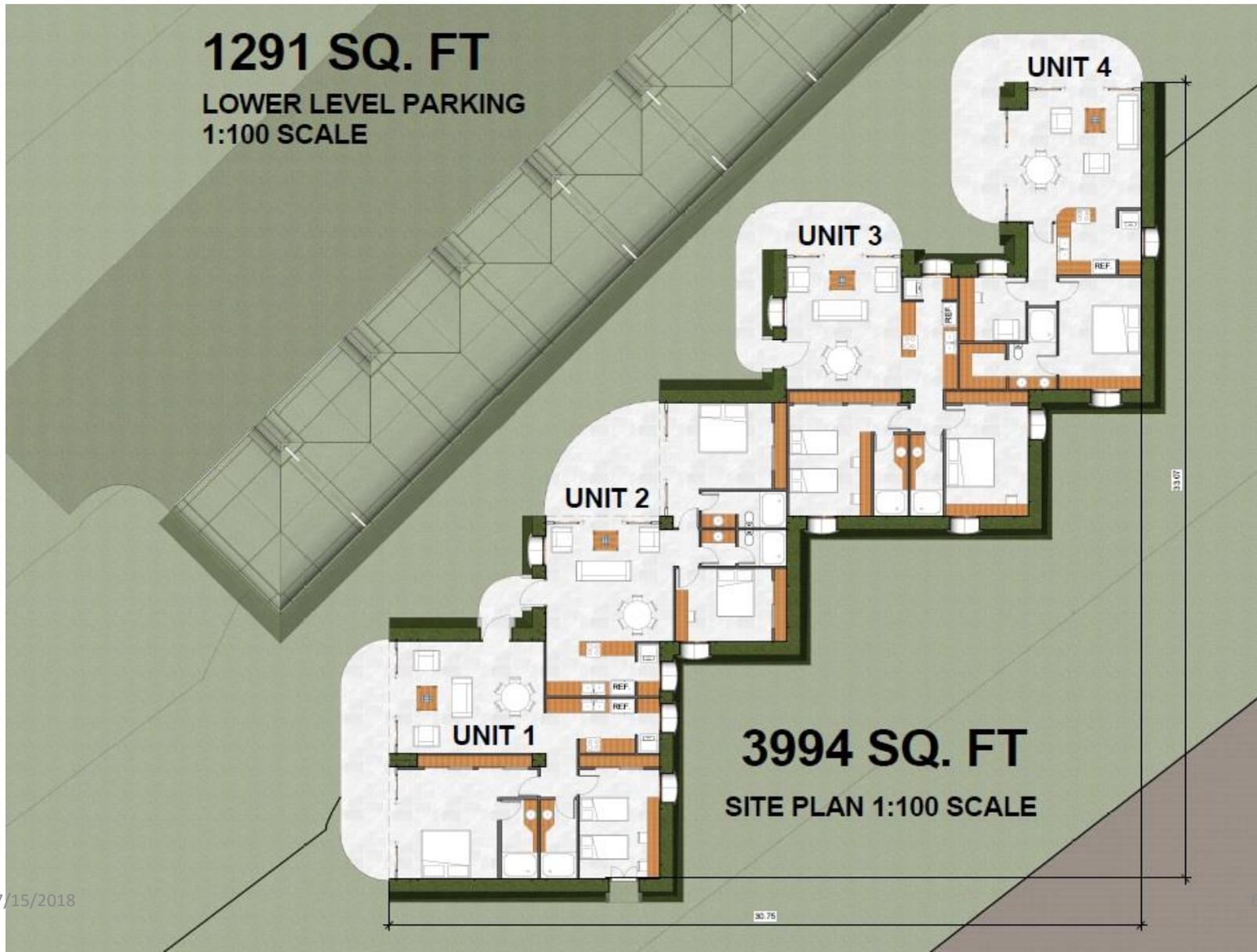


# FOURPLEX

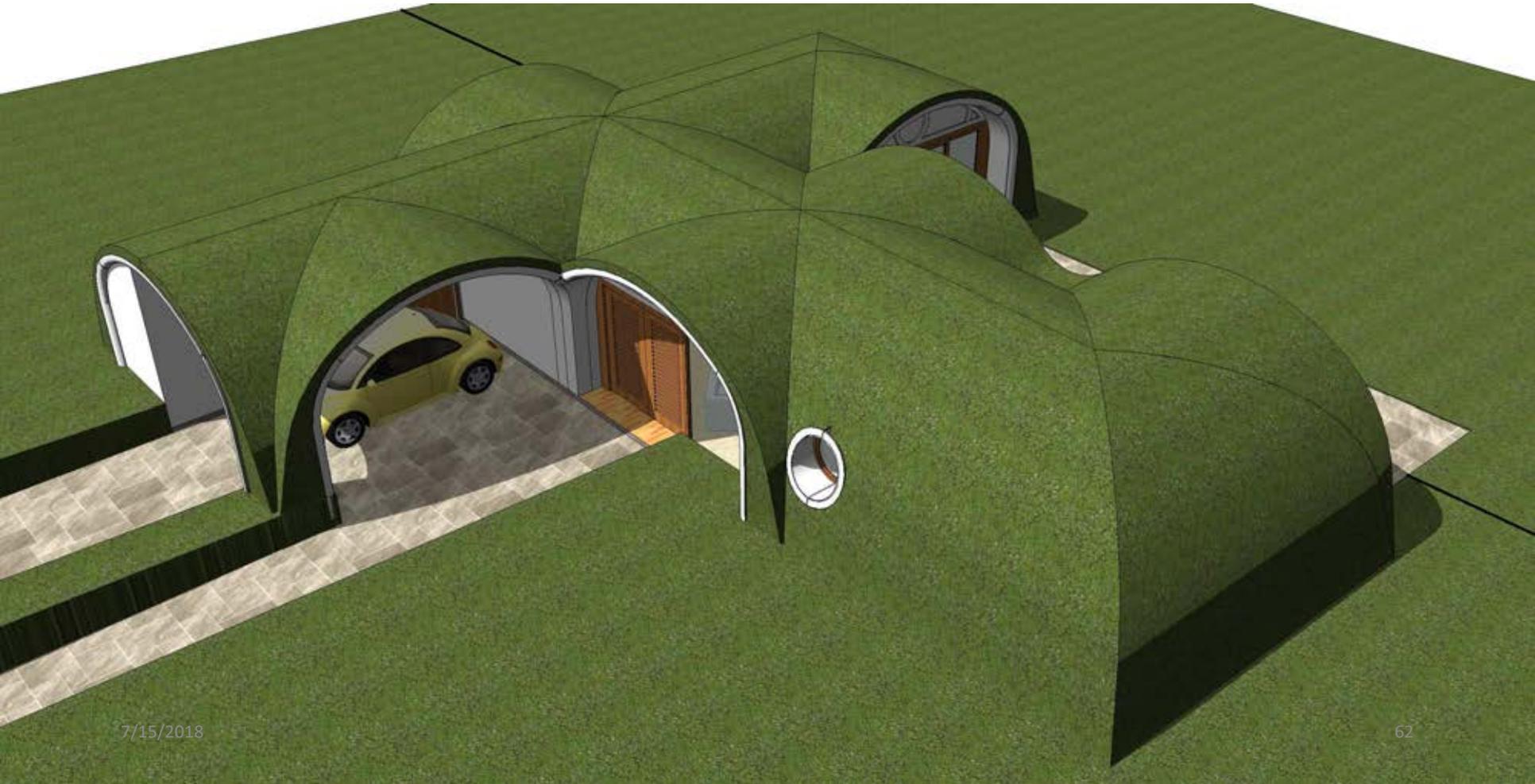
4 APARTMENT UNITS IN A ROW



# FOURPLEX

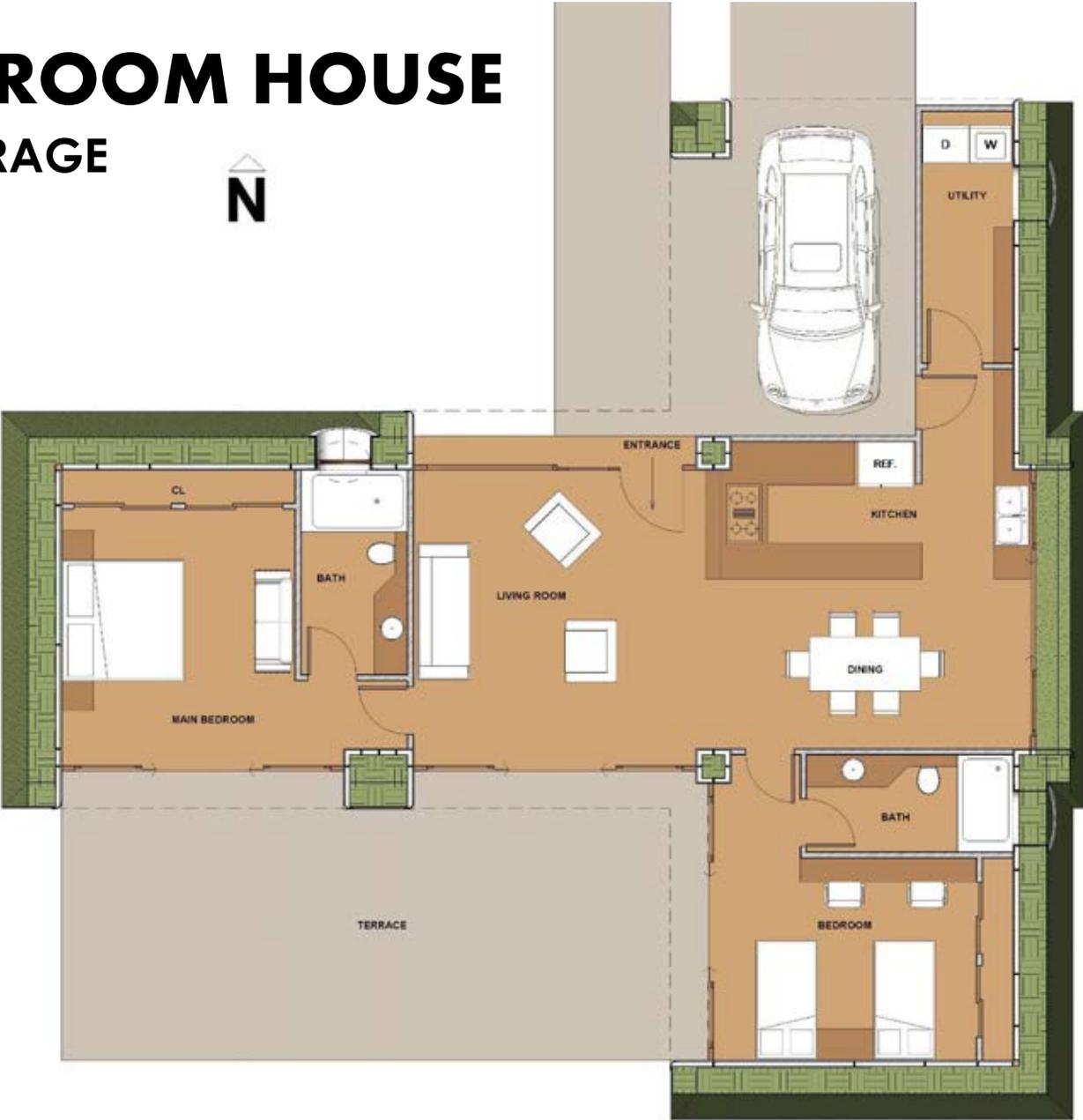


# TWO BEDROOM HOUSE W/ SINGLE GARAGE



# TWO BEDROOM HOUSE

W/ SINGLE GARAGE

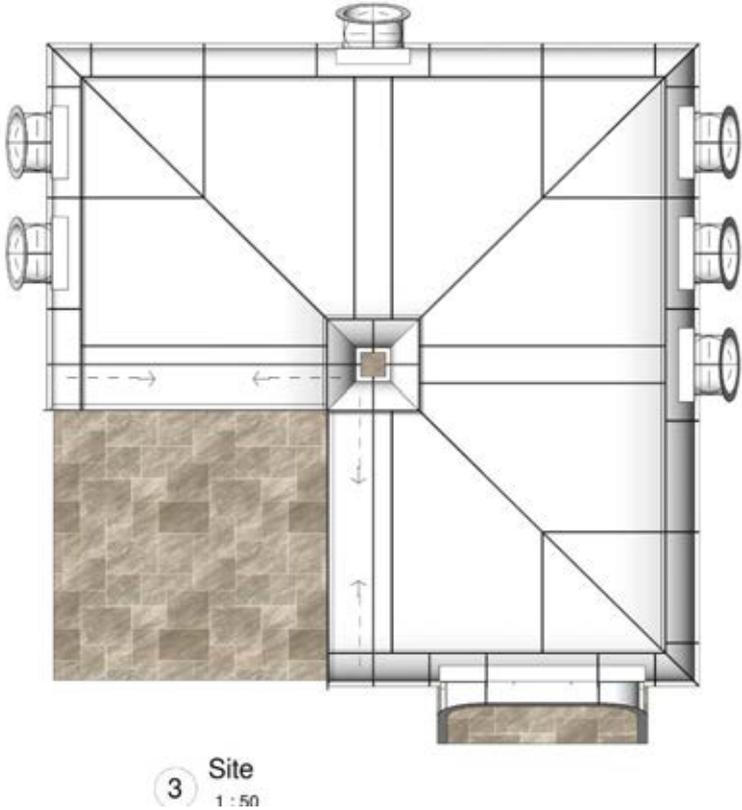


# OFFICE - SHOWROOM





# OFFICE - SHOWROOM



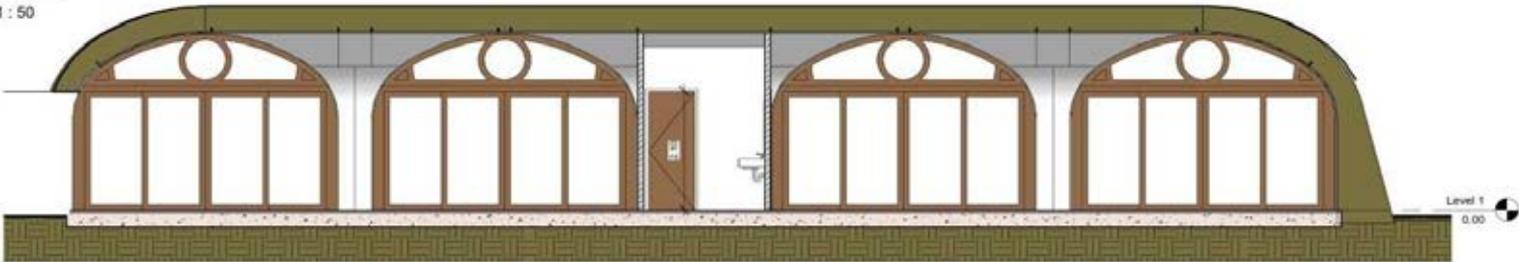
# GYM - CLASSROOMS



# GYM - CLASSROOMS



1 Level 1  
1:50



**AND MORE..**

















# BIOTEKT



**FOR MORE INFORMATION, CONTACT:**

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