

IHI's ANSWER TO BUILDING FOR HUMANITY

IHI VISIONS FOR EXPANDABLE, SUSTAINABLE & AFFORDABLE 400 SQ.FT. HOMES

ADVANCED BUILDING SYSTEM - MASS CUSTOMIZATION - FAST PRODUCTION - ENVIRONMENTALLY SUSTAINABLE - HIGH QUALITY OF INNERT MATERIALS - HUMAN SCALE COMMUNITY

THE PROPOSED BUILDING SYSTEM IS AIMED AT PROVIDING SAFE, AFFORDABLE QUALITY HOMES THAT ARE EXPANDABLE AND DURABLE. THIS PROPOSAL ALSO FOCUSES ON LAND SUBDIVISION AND THE CREATION OF HUMAN SCALE, FRIENDLY AND SAFE COMMUNITIES. THE 400 SQ.FT HOME SHOWN HEREIN IS JUST AN EXAMPLE OF THE APPLICATION OF THE IHI SYSTEM FOR AFFORDABLE HOUSING.

OUR PATENTED ADVANCED CONSTRUCTION SYSTEM PROVIDES THE ANSWERS TO THE EXPECTATIONS OF WORLD ORGANIZATIONS LIKE HABITAT FOR HUMANITY, THE WORLD BANK, ETC AND DEVELOPING COUNTRIES WITH ENORMOUS NEEDS FOR MILLIONS OF AFFORDABLE HOUSING UNITS. THE SYSTEM CONSISTS OF INSULATED HIGH STRENGTH CONCRETE INTEGRATED WITH HIGH GRADE STRUCTURAL STEEL PANELS TO SATISFY ANY ARCHITECTURAL DESIGN. THESE WALLS/SLABS/ROOF PANELS ARE MANUFACTURED ECONOMICALLY AND FAST UP TO 12' X 40' EACH. THIS SYSTEM WITH ITS BUILT-IN STRUCTURAL MOULDS, ALLOWS FOR MASS CUSTOMIZATION AND DIVERSITY OF DESIGN. UNLIKE MANY BORING MONOTONOUS COMMUNITIES, THIS SYSTEM ALLOWS THE USERS TO HAVE A SENSE OF IDENTITY AT NO EXTRA COST. EACH AUTOMATED FACTORY CAN PRODUCE PANELS FOR 30 UNITS/DAY.

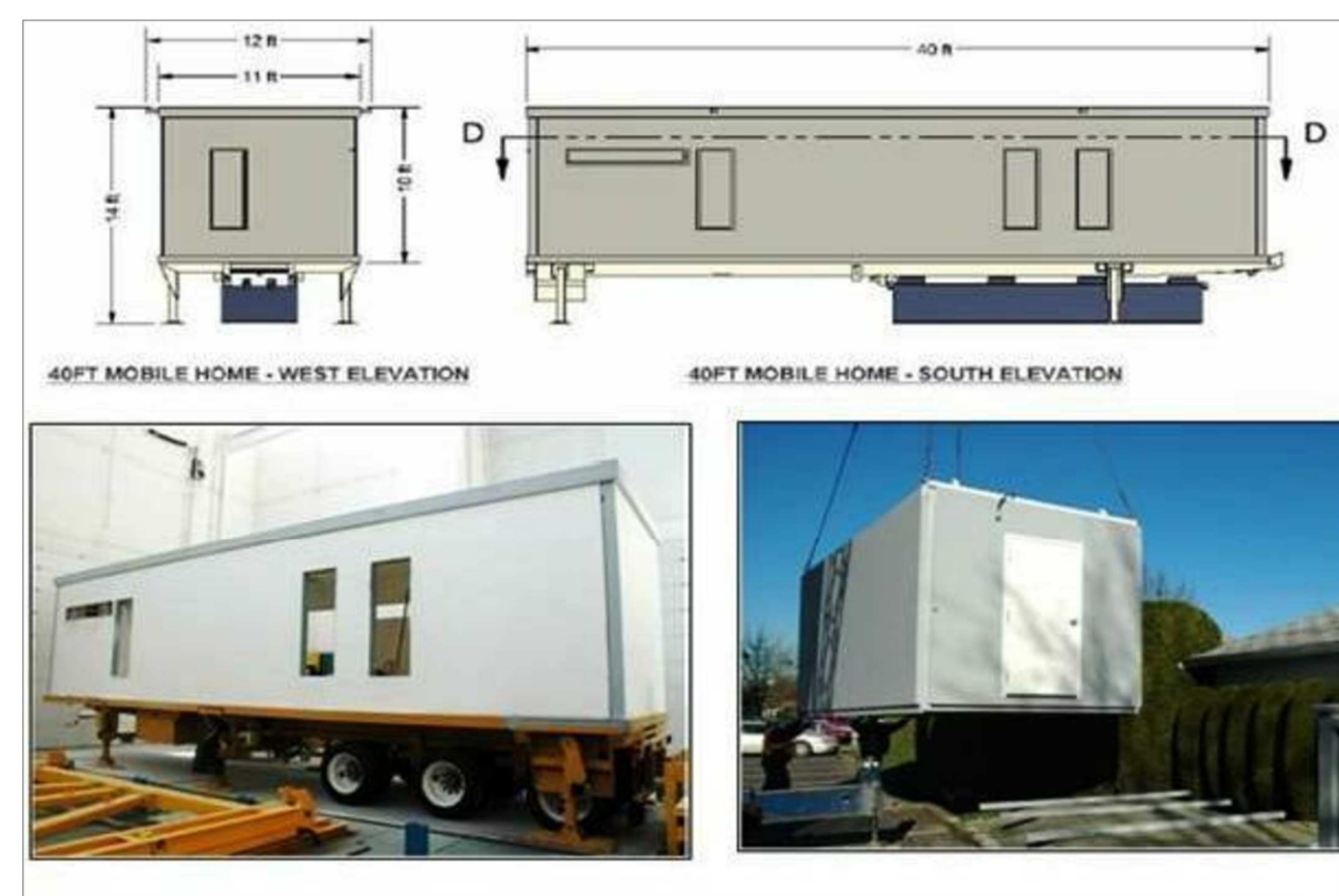
IT'S VERY LIKELY FOR ANY COMMUNITY TO ACCEPT THE PROPOSED PRE-ENGINEERED SYSTEM RATHER THAN CONVENTIONAL PRE-FABRICATED "CATALOGUE" HOMES THAT ARE RESTRICTED IN SIZE AND SHAPE WITHOUT ANY FLEXIBILITY. UNITS BUILT WITH OUR SYSTEM ARE HIGHLY INSULATED (THERMAL AND ACOUSTIC), VERTICALLY AND HORIZONTALLY EXPANDABLE, NON-COMBUSTIBLE, SEAMLESS AND NEED NO MAINTENANCE.

THE IHI PANEL SYSTEM IS STRUCTURALLY SUPERIOR, LESS COSTLY AND MORE USER FRIENDLY THAN ANY OTHER PREFABRICATED SYSTEMS. THE 3D SPECIAL MOMENT RESISTANT SPACE FRAME IS UNIQUELY CONNECTED VIA DUCTILE JOINTS INTEGRATED WITH CONTINUOUS MECHANICAL/ELECTRICAL AND PLUMBING SYSTEMS.

AS AN OPTION THE UNITS CAN BE DELIVERED UNFINISHED/SEMI-FINISHED OR FULLY FINISHED. THESE PANELS ARE MADE TO LAST FOR GENERATIONS UNLIKE SOME OTHER SYSTEMS IN THE MARKET THAT ARE EITHER COMMODITIES OR CONSUMABLES. THE IHI SYSTEM IS APPLICABLE FOR EMERGENCY & LARGE SCALE HOUSING PROJECTS WORLDWIDE. THE SAME PANELS CAN BE USED TO BUILD HI-RISE BUILDINGS WITHOUT THE NEED FOR A PRIMARY STRUCTURE AS WELL AS FOR BASEMENTS.

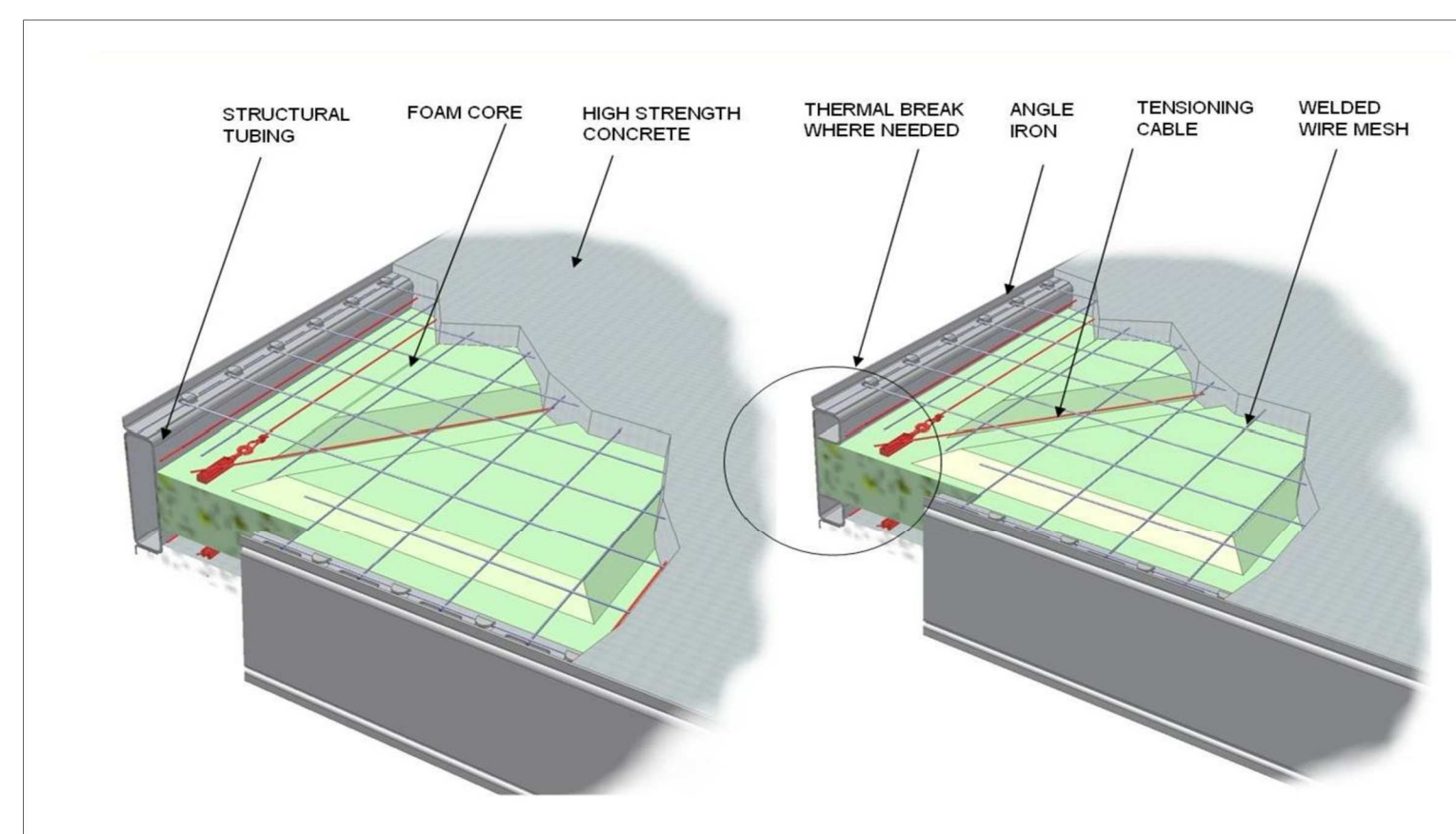
IHI'S VALUE ENGINEERED SYSTEM DRIVES ITS OPTIMIZATION BY ELIMINATING ALL REDUNDANCY (FROM STEEL 30% LESS, CONCRETE 85%, CONSTRUCTION WASTE 100%, LABOR ON SITE 90%, SOFT COST 60%) WHILE INCREASING ITS STATIC AND DYNAMIC STRENGTH IN ADDITION TO DURABILITY (GRADE 50 STEEL, 12,000 PSI CONCRETE, MINIMUM TYPE 2 EPS). THE PANELS ARE MADE OF INERT MATERIALS FULLY RECYCLABLE AND AVAILABLE WORLD-WIDE.

THE HOUSING UNIT SHOWN BELOW WITH AN AREA OF 650 SQ.FT WAS ASSEMBLED IN 5 HOURS - THE FOUNDATIONS WERE POURED ON SITE AND THE GROUND FLOOR SLAB WAS RAISED 1 FOOT. THE ASSEMBLY OF SUCH A HOME REQUIRES A MOBILE CRANE, HOWEVER, IF THE UNITS ARE PRE-ASSEMBLED AT THE FACTORY THEY CAN BE DELIVERED TO THE SITE USING A SEMI-TRUCK AS SHOWN BELOW WITH OR WITHOUT A CRANE ON SITE.

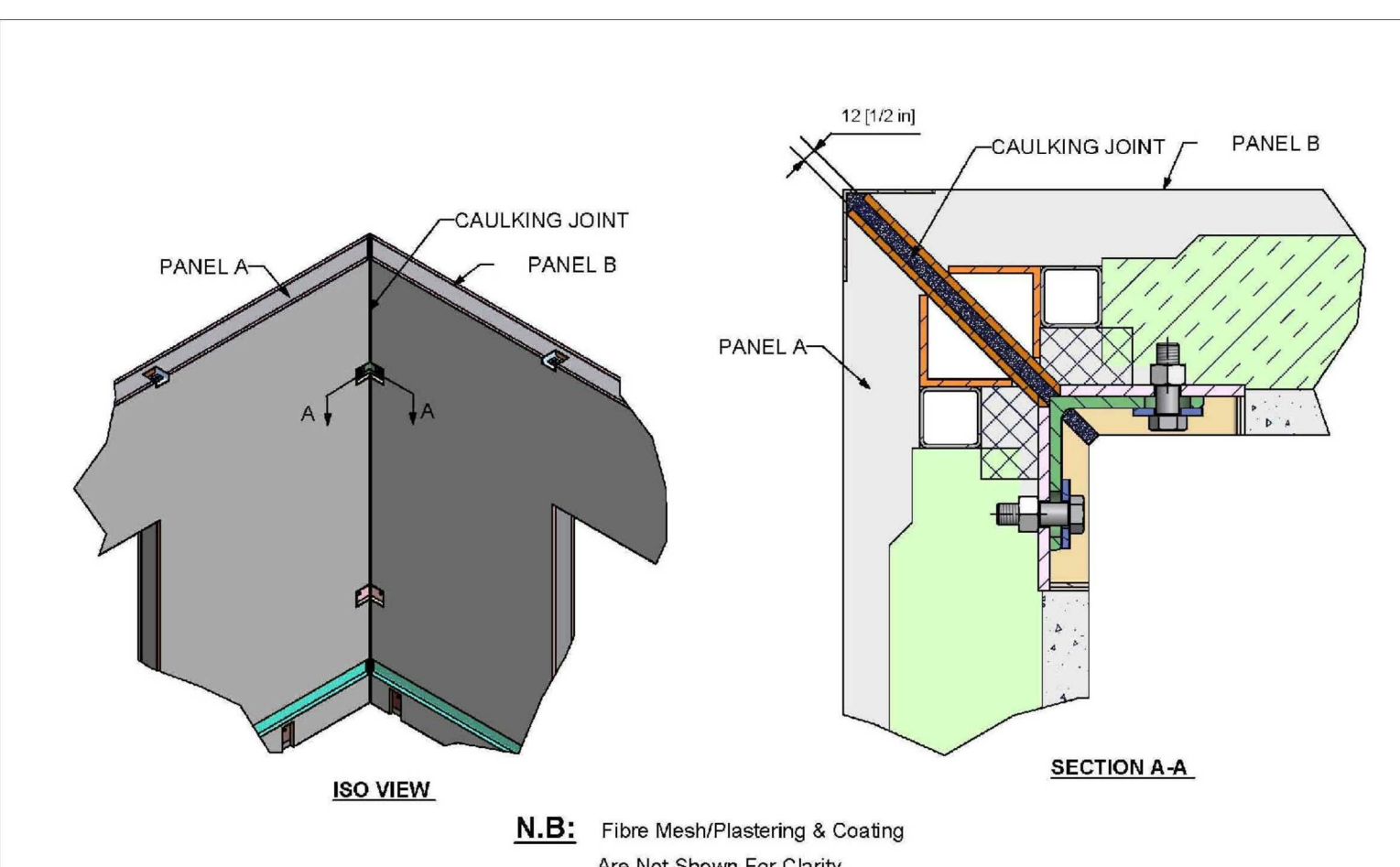


EASE OF TRANSPORTATION

PICTURE ABOVE SHOWS AN IHI UNIT THAT CAN BE BUILT AS A PERMANENT STRUCTURE WITH THE OPTION TO MOVE IT ANYWHERE WITH OR WITHOUT A SEPTIC TANK UNDER. THE UNIT CAN BE DELIVERED TO SITE AND PLACED EITHER ON COMPACTED SAND, PRE-CAST FOUNDATION BEAMS OR PILES WITHOUT A CRANE.

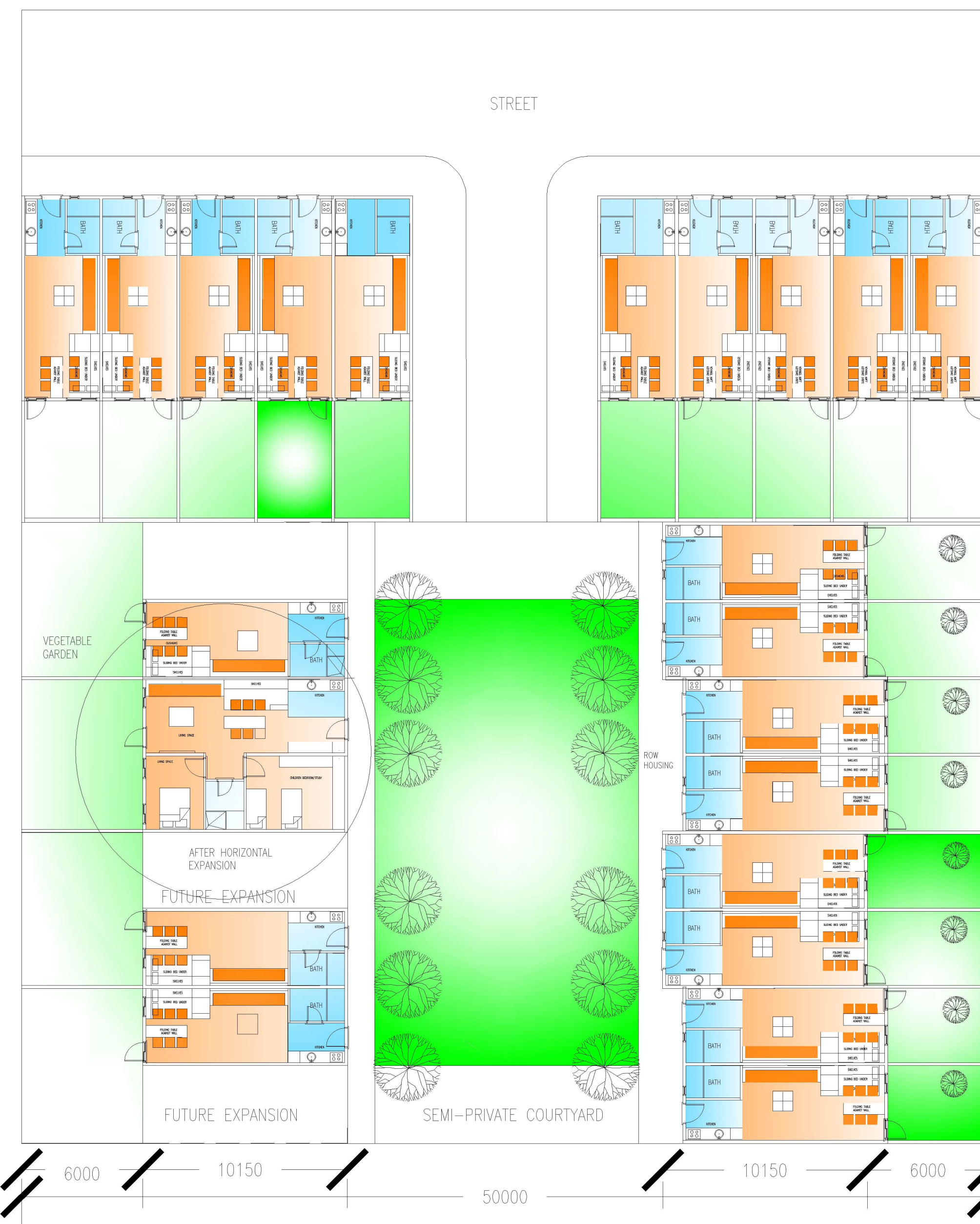


THE FOAM IS USED AS THE BUILT-IN FORM FOR EACH PANEL DURING MANUFACTURING, AND BECOMES THE THERMAL AND SOUND INSULATION IN THE COMPLETED PANEL. FOAM DENSITY AND THICKNESS CAN BE ADJUSTED TO CONFORM TO THE LOCAL NEEDS FOR INSULATION AND TO THE TYPE OF BUILDING. THE MACHINED FOAM PANEL SECTION ALLOWS FOR ACCURATE PLACEMENT OF THE STEEL FRAME AND PANEL ELEMENTS SUCH AS WINDOWS AND DOORS.

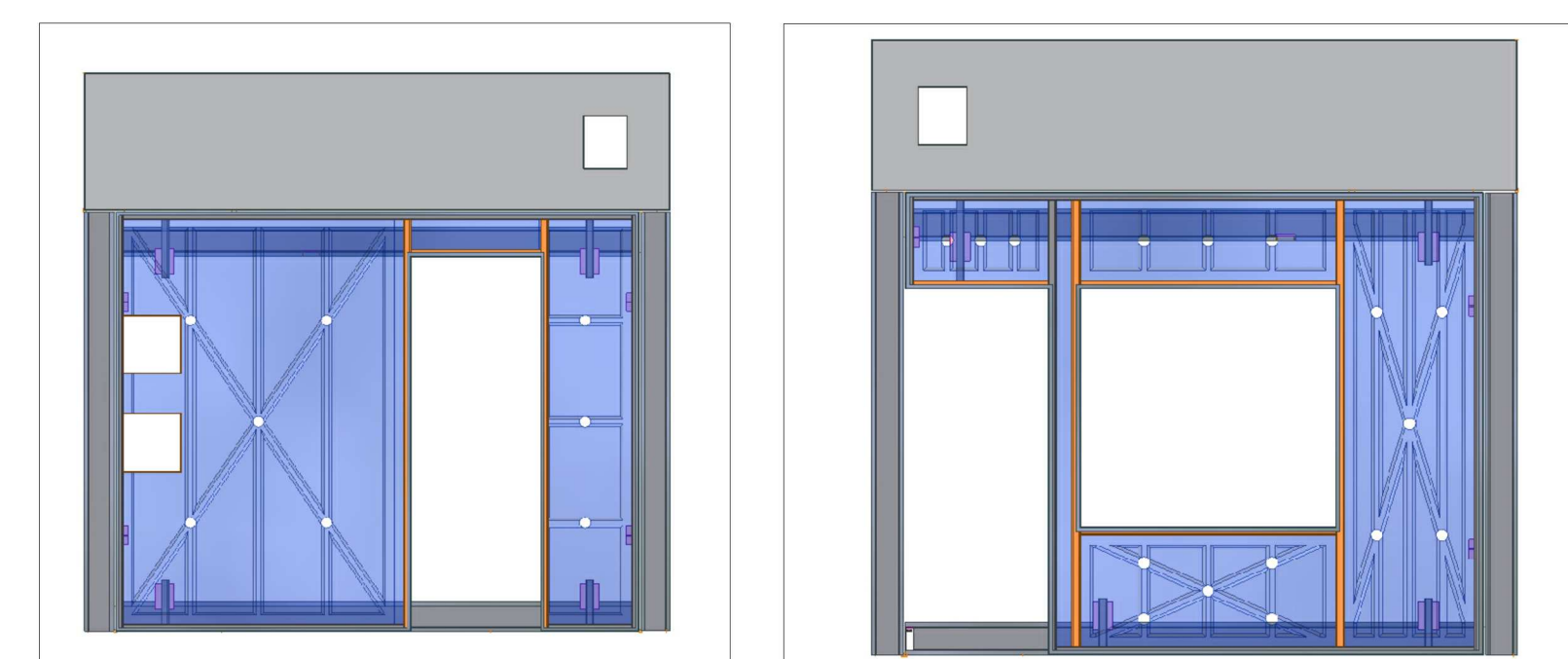
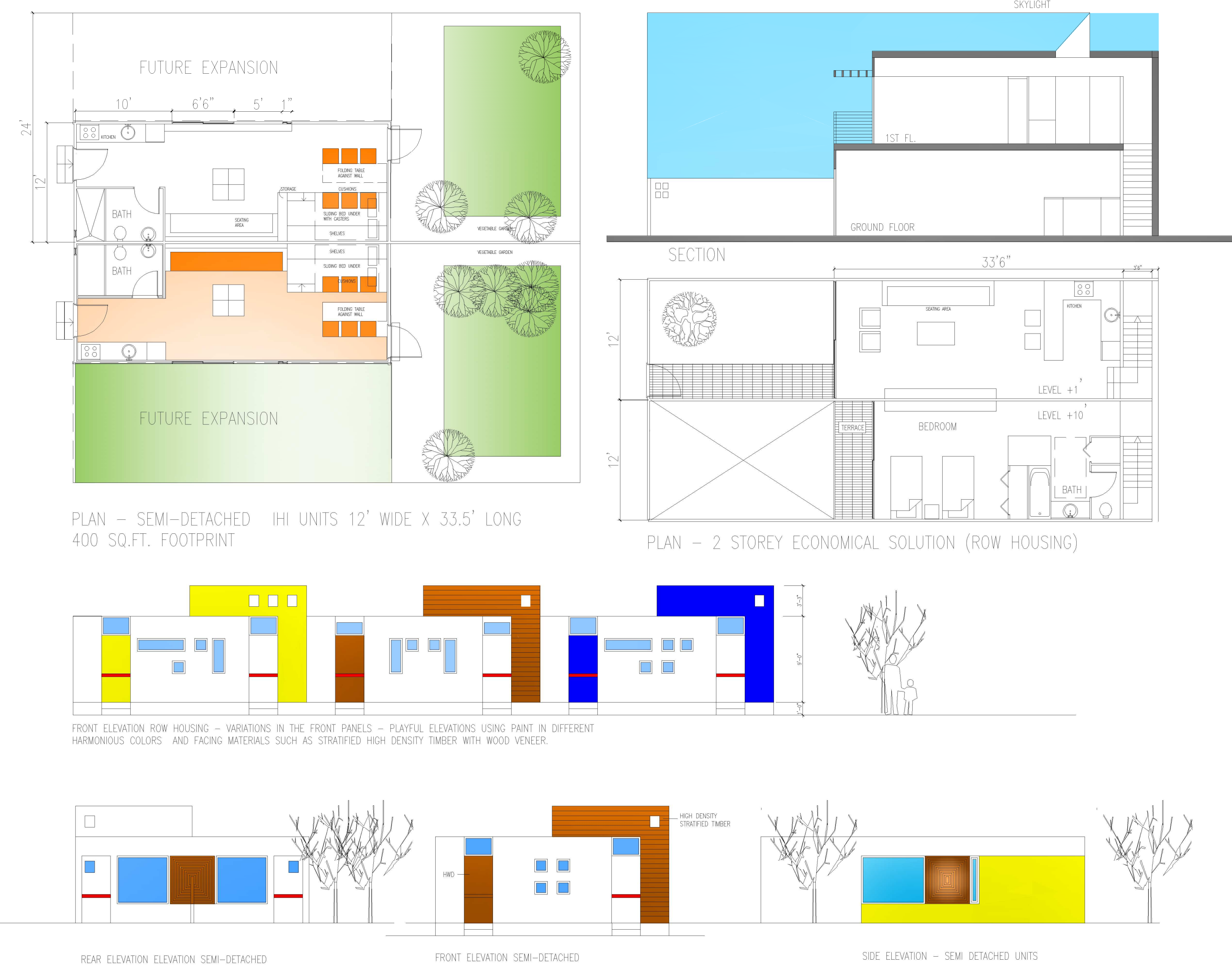


TYPICAL DETAIL OF MITRED JOINTS AT CORNERS

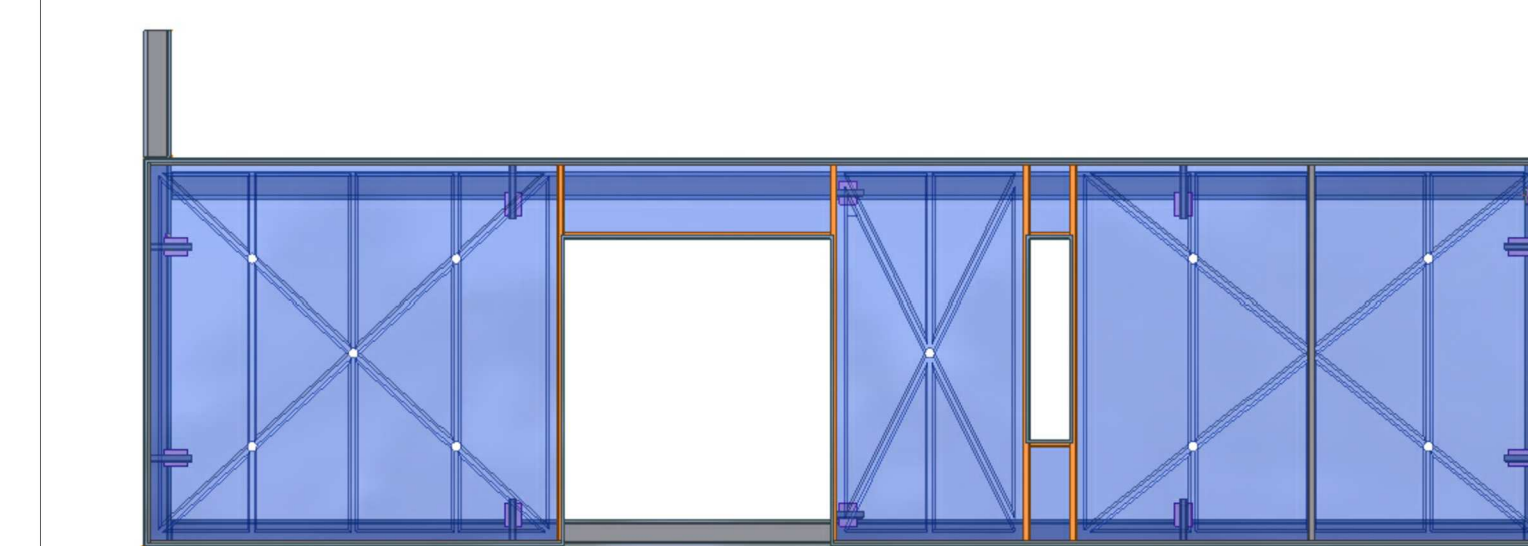
OPTIMAL LAND SUBDIVISION - THE CLUSTER
 ADVANTAGES: OPTIMUM COST OF INFRASTRUCTURE UTILITIES
 HIGH % OF PRIVATE LAND OWNERSHIP - MINIMUM PUBLIC LAND, THIN MAINTENANCE COST
 HIGH POPULATION DENSITY
 AFFORDABLE LAND COST TO THE USERS
 SAFE PERFORMANCE FOR CHILDREN AND GREEN AREA IN THE BACK OF THE HOMES
 PUBLIC SAFETY: AN INTRUDER CAN BE EASILY BE RECOGNIZED BY RESIDENTS
 GROUP ARRANGEMENT REINFORCES THE COMMUNITY
 COMMON WALLS IN HIGH RISING REDUCES SWELLING/UNT COSTS



PLANS - ELEVATIONS - SECTIONS



STRUCTURAL PANEL - FRONT AND BACK ELEVATIONS SHOWING CORE INSULATION, CONNECTIONS DOOR/WINDOW STEEL FRAMES



ISOMETRIC VIEWS OF THE STRUCTURAL PANELS ASSEMBLED SHOWING THE INSULATION (THAT ELIMINATES THE REDUNDANT CONCRETE) FOR WALLS, SLAB AND ROOF PANELS AND CONNECTIONS PRIOR TO CONCRETING.



RENDERINGS OF THE FRONT AND REAR OF TWO SEMI-DETACHED IHI UNITS SHOWING RESERVED LAND FOR HORIZONTAL EXPANSION



RENDERINGS OF A 800 SQ.FT - 2- STOREY IHI HOME WITH A 400 SQ.FT. FOOTPRINT.

