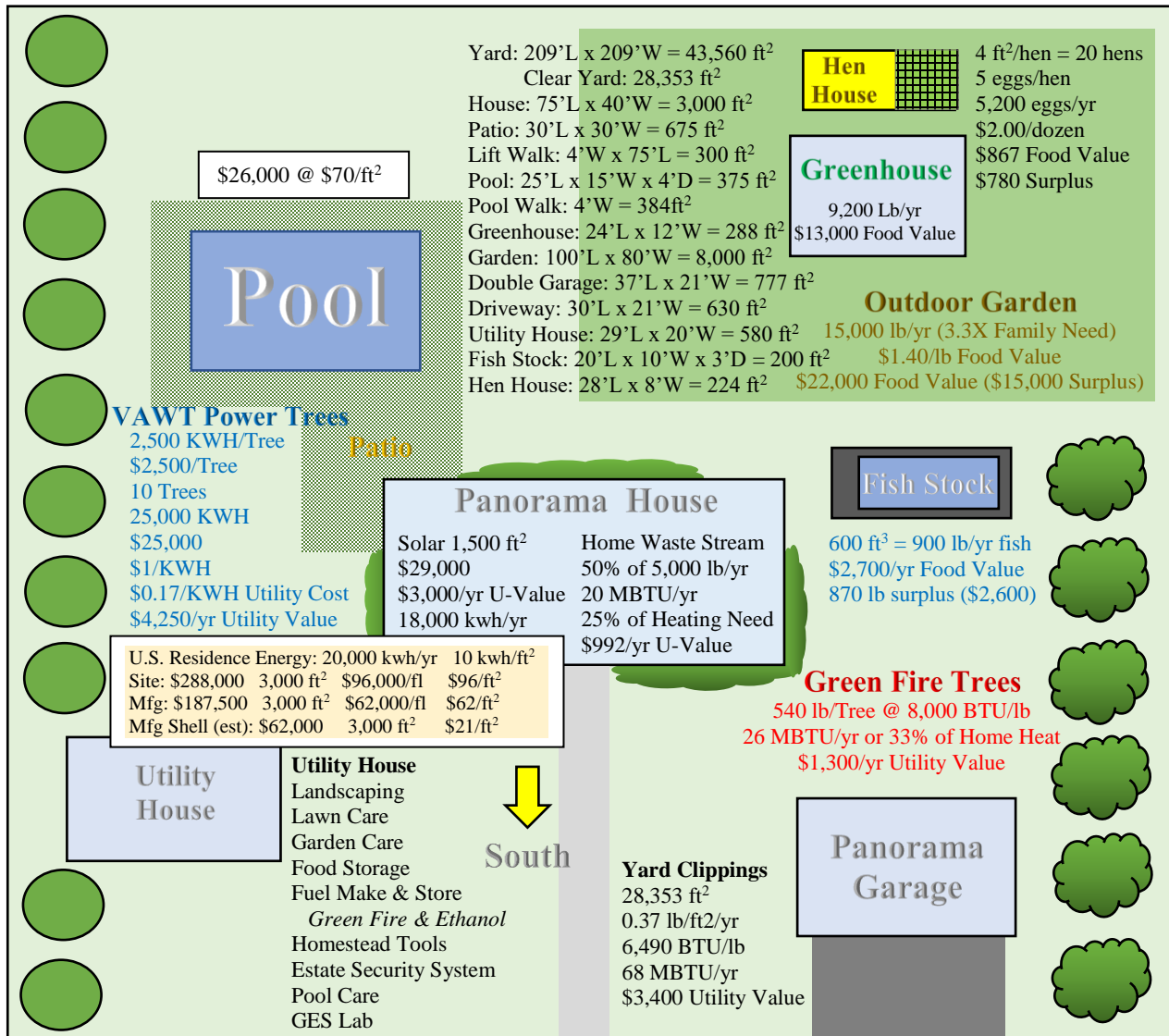


## Millennial Estate Empowering Family Self-Sufficiency



Traditional Two-Story House = One-Story Millennial Estate

\$ 2 <sup>nd</sup> Floor ~ \$ Garage
\$ 1 <sup>st</sup> Floor ~ \$ 1-Story House
\$ Basement ~ \$ Pool

### GROW into New Homestead

**Panorama Power House Incremental Solarization**

Add 2' x 4' Ceiling Panels as Each Pays for Next

**Open Plan Incremental Interior**

Add Rooms & Adjust Layout Via Movable Partitions

**Incremental Power Trees**

Add Another Tree as Previous Tree Pre-Pays

**Incremental Garage**

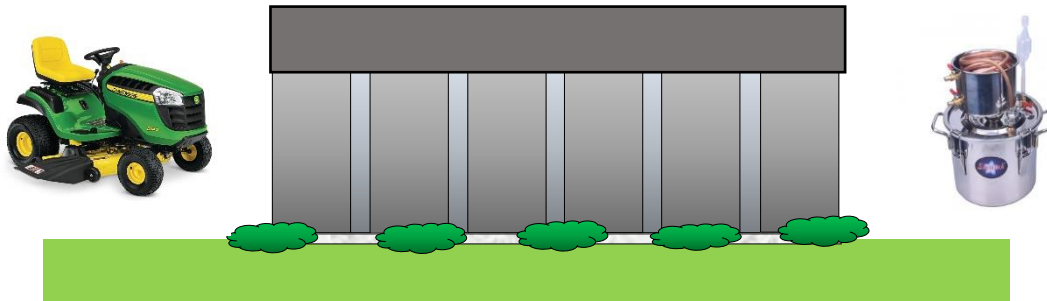
Start as Breezeway, Gradually Add Window Walls

Millennial Estate Value Generators Can Be Progressively Added to Pre-Pay Follow-On Amenities

Food Garden Pays for Greenhouse & Provides Free Family Food w/ Surplus  
 Utility House Auto & Heating Fuel Production Pays for Operations House & Cars  
 Solar Home & Wind Power Trees Furnish Free Electric Utilities  
 Green Fire Trees Provide Free Home Heating  
 Food Fish Stock Provides Free Family Seafood & Pays for Fish Pond  
 Hen House Provides Family Food (Chicken & Eggs) & Pays for Hen House



## Utility House



**Theme Structure for Self-Sufficiency Living    *Tax Freedom    Debt Freedom    Income Moderation***

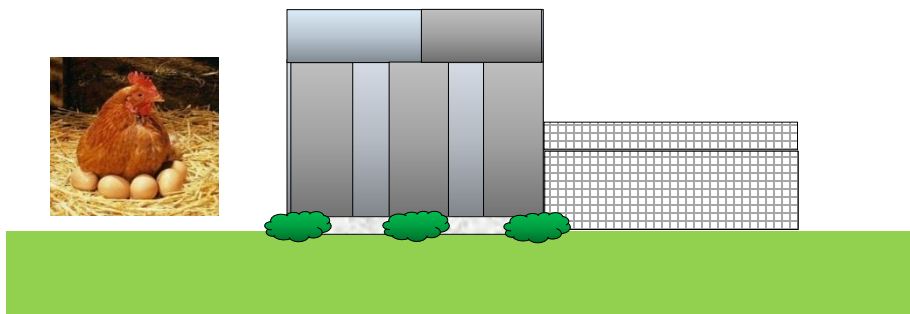


***29'L x 20' W = 580 ft<sup>2</sup>  
Solar Gable Roof  
4' x 8' Aluminum or Stainless Spanel Sidewall  
1'W x 8'H One-Way Privacy Windows  
Garage Door  
Concrete Pad  
Suitable Landscaping  
DIY Tools & Equipment***



## Luxury Hen House

***All-Season Maintenance-Free Metal & Glass Exterior***

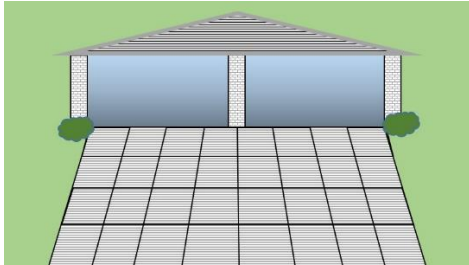


***14' x 8' Covered + 14' x 8' Screened = 28'L x 8'W Single-Story  
Interior Equipped for Up To 20 Laying Hens  
Walls Similar to Operations House    Dual Roof    Natural HVAC  
Sun Zone for Winter    Shade Zone for Summer  
Power Spray/Blower/Vacuum Sweep Concrete Pad  
Metal-Glass-Concrete Construction Free from Wood Rot  
Storm Door Entry (Glass/Screen)    Cafe Door w/ Hen Ladder to Grassy Hen Run  
Clean & Healthy Elevated Removable Dual-Hen Roosts Each Side  
Sloped Egg Drop to Pull-Out Drawer    Perfumed 1" Replaceable Poly Batting Laying Cushion  
Fresh-Air Screened Sides    Friendly Space-Maker Rear Mirror  
Screen-Enclosed Gabled Hen Run    Integral Portable Compost Collector Barrel (Turn Each Egg Collection)  
Water Storage & Dispenser    Feed Storage & Dispenser    Movable Hen Perch Rods***

## Two-Car Panorama Garage

21'W x 37'L

Benches & Cabinets on Rollers    Build & Service Family Car    Estimate \$50/Ft<sup>2</sup>



### Potential Intermediate Structure



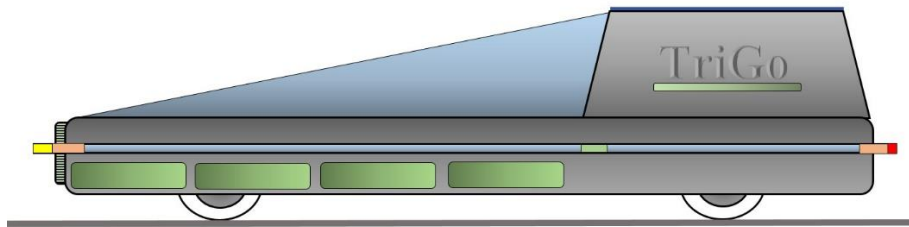
Lexan Car Port    \$12/Ft<sup>2</sup>

### Potential Intermediate Structure



Green House or Greenhouse Garage    \$65/Ft<sup>2</sup>

TriGo DIY Family Car    500 Lb    \$3,000



Sun Salon DIY Solar-Electric Family Car    1,000 Lb    \$5,000

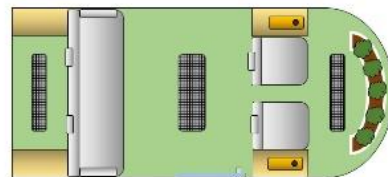
**Sun Salon**    *Solar Electric Family Automobile*

**Sun Salon**    *Solar Electric Family Automobile*



Side View

Total Solar Roof    Sliding-Door Entry  
360° Floor-to-Ceiling Tinted Polycarbonate Window Wall  
360° Tubular Aluminum Bumper w/ Integral Lighting  
Aluminum Honeycomb Floor-Frame  
Four Quick-Swap In/Out Propulsion Cubes  
(Electric Induction Motor + Solid-State Suspension + Servo-Steering + Aluminum Wheel)

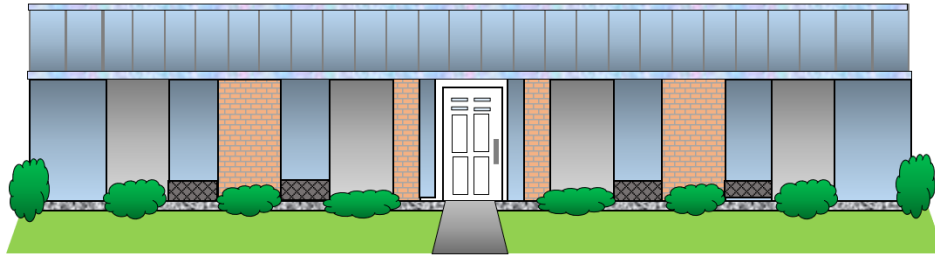


Floor Plan

4-5 Passengers    Easy-Care White Leatherette Seating (Rear Fold-Down)  
Safety-Stick Accelerator-Steering-Braking    Sliding-Side-Door Entry (Glass-Plastic-Screen)  
Generous Rear & Mid-Body Stowage    Front-Middle-Rear Solar-Powered Floor Ventilation  
Fresh-Scent Forward Foliage Décor Garden (Symbolize Greenhouse/Porch Design Theme)  
Batteries under Seats (300 Pounds/2.5 Cu Ft)    100-Mile Range @ \$0.13/Mile  
15 HP    Safe 25 MPH    1,300# GVW    Roomy 150 Cu Ft Interior    Regenerative Braking  
Quiet Rolling Porch Environment    Aerodynamic Front Curvature    Heads-Up Instrument Display  
Auto Weight Index Price \$5,000    Climate Saver    Auto-Drive Potential    Never Stranded

## Millennial Life House

*Nature-Harmonized 1,000-Year-Lifetime Family Home*



*South Face*

Glass Gable Roof (Natural Illumination Day, Color LED Illumination Night)  
*Stained Glass Cathedral Effect at Night*   *Leak-Proof Metal Peak*   *Integrated Rainwater Collection*  
 Deterioration-Free Under-Roof Solar-Electric Ceiling Panels  
 Fireproof Wall Panels (Architectural Metal, Brick, Stone) and Natural-Illumination Window-Walls  
 Room-By-Room Through-Wall HVAC   Interior Solar-Electric Vertical Blinds  
 Fire-Proof Theft-Proof Steel Door   Flood-Proof Fire-Proof Concrete Base  
 Ramp-Entry Seamless-Walkway No-Trip Entry   Single-Story Fall-Safe Residence  
 Picture Window-Wall Panorama Corners

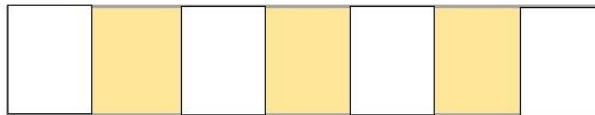
### Precursor Metal Framework

**4'W x 8'H Structural T-Sections (Roof-Bearing Rib-Work)**

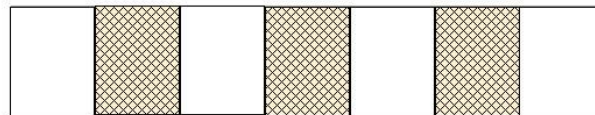


### Solar Ceiling Detail

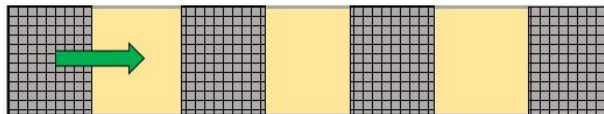
Solar Ceiling Strand Looking Up – Natural Light Position



Solar Ceiling Strand Looking Up – Artificial Light Position



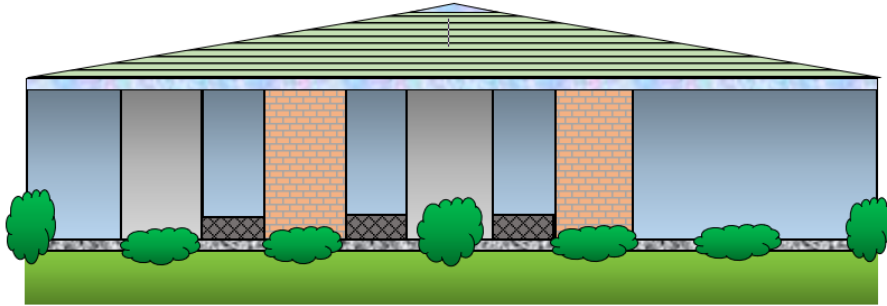
Solar Ceiling Strand Looking Down – Interior Solar Panel (Slide Direction) + Natural Light Into Interior



### Flexible Living Areas for Home-Centered Living

*Living Room   Dining Room   Kitchen   Media Room (Radio, TV, Internet)   Fine Arts Room*  
*Music Studio   Dance Studio   Fashion Design & Sewing Room   Physical Fitness Room*  
*Bedrooms (2 to 5)   Corner Sun Room   Laundry & Utility Room   Garden Room*  
*Toilet/Bath/Shower Rooms (Master, Family, Guest)   Entrance Foyer*

*21 Possible @ 142 ft<sup>2</sup>/room average (12' x 12')*



Millennial Life House (*East-West View*)

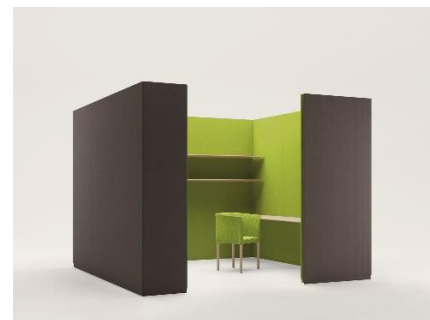
Adjustable Screened Metal Louvers: Closed for Winter Thermal Space / Open for Summer Breeze Way  
 Interior LED Lighting Visible Through Louvers at Night  
 Fireproof Wall Panels (Architectural Metal, Brick, Stone) and Natural-Illumination Window-Walls  
 Picture Window-Wall Panorama Corners

## Durable Stone, Glass, Aluminum Spanel Exterior Wall Sections

Stone+Foil Foamboard =  $[0.08R+5R]/\text{Inch}$     Standard Thermo Glass  $R=3$     Spanel =  $5R/\text{Inch}$



## Movable Interior No-Paint Light Wall Partitions



*Diffuse Glass Luminaires Integral with Movable Partitions*  
*Energy-Efficient LED Light Source*  
*Fully Dimmable*

*Full Spectrum Color Tuning*

*Light & Motion Sensor Control w/ Manual Override*

*ON Upon Entering Room - OFF Upon Exiting Room*

*Automatically On at Dusk – Automatically Off When Naturally Lit Interior Adequate*

*Top Channel for Hanging Wall Decor*

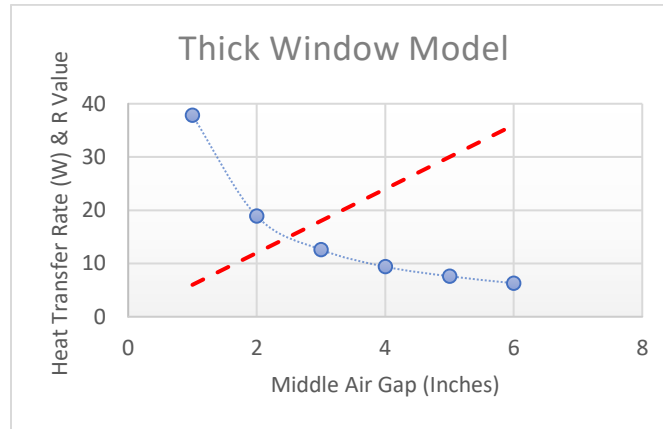
*Design Adapts to Clear Diffuse Glass Panel Only (No Interior Light Source)*



## Fire-Safe Window-Wall Advantages

### R-Value Equivalency

Increasing Air Gap Between Dual-Pane Windows Duplicates Wall Insulation



## Panorama Architecture

Increasing Roof & Wall Panorama Yields Radiant Heating Equivalent to Winter Heating Need

### Aggregate Heating Home Model

Exterior Wall Ft <sup>2</sup>	541	
Window Ft <sup>2</sup>	270	50%
Net Exterior Wall	270	50%
Roof Ft <sup>2</sup>	2,000	Roof Open
Effective Ceiling Ft <sup>2</sup>	1,000	50%
Totals		

Solar  
Influx  
W

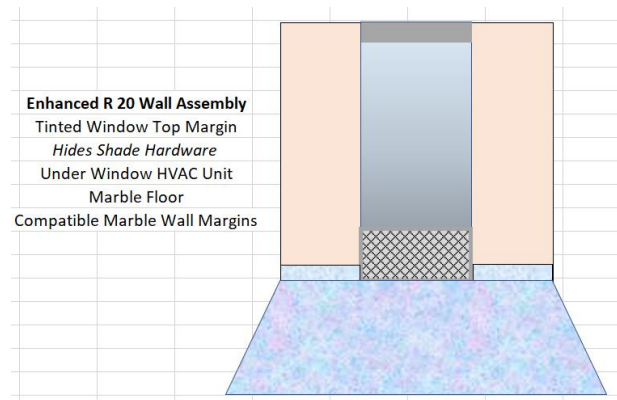
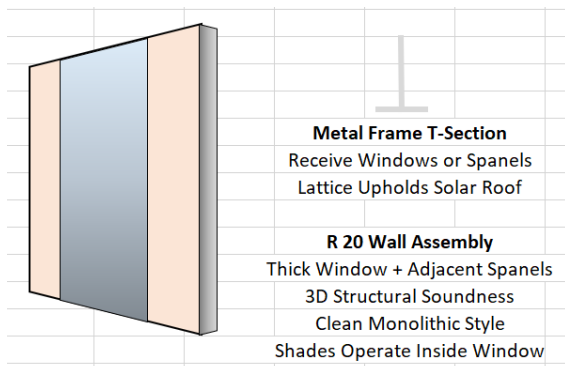
6,135

Furnace  
Heating  
W

23,440

22,685

28,820



### Lights & HVAC Nature Compliant

Activate When Family Present Within Off-Temperature Ill-Lit Room

Activate When Natural Light & Radiance Insufficient to Human Need Anywhere in House

Wireless Hand Controller Selects & Adjusts Illumination Zones to Need (On-Off-Brighten-Dim)

## Construction Economy

**Structural Metal Permits “Great Room” Architecture   Wide-Open Living Space Under Roof**  
*Only Baths, Utility Rooms Permanently Enclosed*  
**Can Pre-Fab Permanent Rooms & Lower Into “Great Room” Position Before Capstone Roof Installed**  
**Metallic Spanels Factory-Made Year-Round: Precision Cut & Formed**  
**Fire-Safe Home Construction   Perfect Fit   Stronger Than Window Glass**

**Glass, Stone, Metal Modules**  
*Longest Lifetimes Among Materials of Construction*  
*Lowest Maintenance Burden Among Materials of Construction*  
**No Termites   No Wood Rot   Free Rinsing   Negligible Weathering**

**Quiet Construction**  
*All Panels Afford Easy, Quiet Assembly & Installation by Adhesive Bonding*

**Integral Thermal Insulation**  
*Match R-Value to Any Climate   Raising R-Value Also Raises Sound Insulation*

**Glass, Stone, Metal Modules are Complete Wall Structures**  
*Precise Quiet Mount to Metal, Concrete, Brick, or Block Framework*  
*Inside & Outside Module Surfaces Qualify as Finished Home Interior & Exterior*  
**Strength of Modular Wall Exceeds Window Strength, Needs NO Through-Wall Reinforcement**

**Diverse Interior Décor Choices (Many Extend Fire-Safe Home Theme)**

### **Glass (Thermal Pane)**

*Natural*  
*Tinted*  
*Vertical Blinds*  
*Solar Vertical Blinds*  
*Draperies*

### **Metallic Spanels**

*Natural Finish*  
*Wall-Tex*  
*Paint*  
*Plasterboard*  
*Mirror*

### **Stone + Foamboard**

*Stone Veneer Interior*  
*Paint*  
*Plaster*  
*Wall-Tex*  
*Mirror*

## Millennial Estate Aggregate Operating Economy

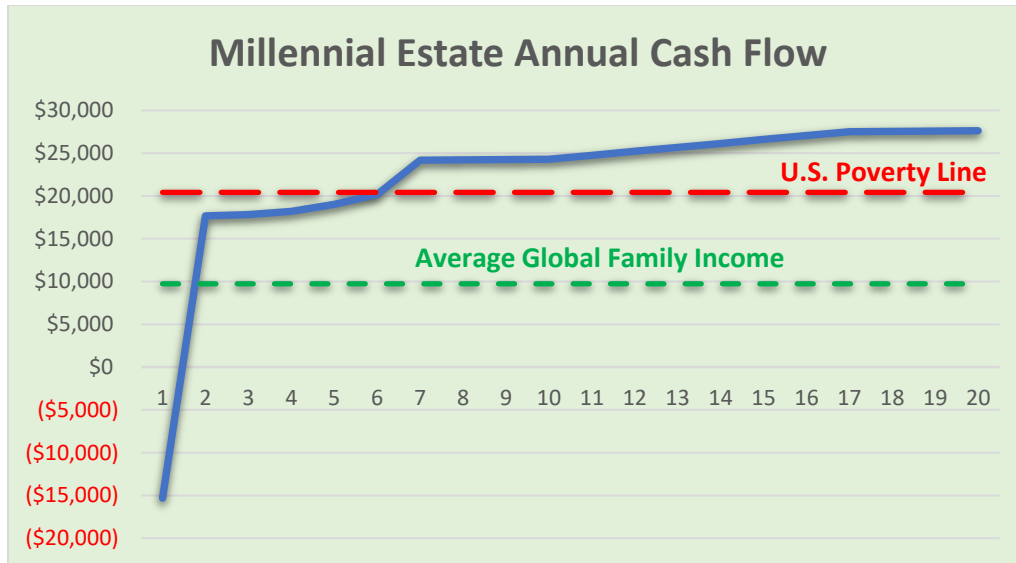
**Annual Energy Output 73,500 kwh/yr**  
*Solar Ceiling: 18,000 kwh/yr   Green Fire Trees: 26 MBTU/yr*  
*VAWT Wind Trees: 25,000 KWH/yr   Home Trash: 20 MBTU   Yard Clippings: 68 MBTU*  
**Family Energy Need: 20,000 kwh**  
**Energy Surplus: 56,070 kwh/yr with Utility Value = \$10,000/yr**

**Annual Food Output 17,000 lb/yr**  
*Garden: 15,400 lb/yr   Hen House: 450 lb/yr   Fish Stock: 900 lb/yr*  
**Family Food Need: 4,600 lb/yr**  
**Food Surplus: 12,000 lb/yr with Food Value = \$15,000/yr**

**Value of Self-Sufficiency = Free Energy & Food + \$25,000/yr**

**Millennial Estate Family Food & Energy Labor Burden**  
*3.1 persona/family x 2 hours/day x 5 da/workweek = 31 mh/workweek (25% Utilization)*  
*Discretionary Time 75%*

**Surplus Value Creation from Millennial Estate Can**  
**Pay Off Mortgage in Five Years**



## Collaborative Self-Sufficiency

Few American families are qualified to tap all savings or create full value from the Millennial Estate lifestyle. Societal education and training has not yet oriented to Family Value Generation from a home estate. All Millennial Estate instrumental knowledge and skills can be mastered by the average family, and eventually will become part of every young family's development and repertoire. Interim, the concept of **Value Sharing**, as in share-cropping, can bridge the expertise gap. Fruit and vegetable gardens, hen houses, food fish ponds, energy gardens, Green Fire energy logging, and ethanol liquid fuel production can be operated by *contract visitors* to the property who are paid by sharing in the harvest they expertly produce on site. Estate family members also can apprentice operators who impart their knowledge and skills as they work. The combination of working and teaching by commissioned experts should eventually yield Millennial Estate owners who are fully qualified to operate all value-creating processes of the homestead. Food and energy subsidies received by visiting experts engaged as part-time Estate Counselors can help Counselor families eventually acquire their own Millennial Estate. The greater discretionary time benefit associated with Millennial Estate lifestyles leaves an open door for qualified Estate owners to commit part of their free time to *a posteriori* Estate Consultancy that expands the total number of self-sufficient homesteads all across the nation, perhaps around the world. It is a compassionate, peaceful, environmentally-friendly doorway to active, stable, productive, prospering life that all families on Earth eventually can learn and practice. It appears to fulfill the promise of easy living originating with God's first family, Adam and Eve, in the Garden of Eden. We can revive and recompose and translate that paradisiacal Garden privilege to wherever we live right now on God's munificent Earth.

**“Great Room” Home Design Economies & Flexibilities    *Habitat Grows Around Family***  
**“Open Living” Affords Universal Air Quality, Light Adequacy, Warmth, Cooling, Furniture & Family Visibility**

**Draw-Drapery  
Privacy  
Partitions**



**Fireproof  
Armoire  
Wardrobe  
Wall Closet**



**Diverse Pre-Fab  
Private Bath  
&  
Utility Room  
Modules**



**PTAC**  
*Ductless Electric HVAC*  
**Green Fire**  
*Sealed Combustion Heat*





## Other Value-Creating Site Features



### GrassFuel Combustion Logs & Ethanol Fuel

*Energy Potential: 68 MBTU*

*Utility Value: \$3,400/Yr*

*Fuel Pays for Millennial Automobile*

### Garden Furrow Management

*Narrow Planting Zone Between Grassy Rows*

*Eliminate Erosion Natural Fertilization*



### Family Pool

*Mostly Above Ground (25' L x 15' W x 4' D)*

*Narrow Form Factor for Close-to-Edge Family Safety*

*4' W Walkway Perimeter at House & Patio Level*

*Filter & Pump Hidden Under Walkway*

*HW Solar Collectors Partially Fence & Heat Pool*

*Family Recreation (Forego \$250/Yr for City Pool Use)*

*Fuel-Conserving Vacation at Home (Save \$1,200)*

*Home Pools Reduce Global Warming Sea Level Rise*

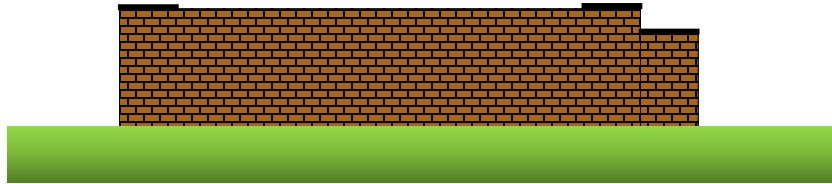
*Emergency Water for Fire-Fighting (Save Life & Property)*

*Potential Home Air-Conditioning Chiller & Pool Heater*

*Subsidize Greenscape Watering if Pool is Chlorine-Free*

*"Super Rain Barrel" On-Site Water Reservoir*

## Aqua Culture Food Fish Stock



20' L x 10' W x 3' D 600 Cubic Feet 900 Lb Fish/Yr \$2,700

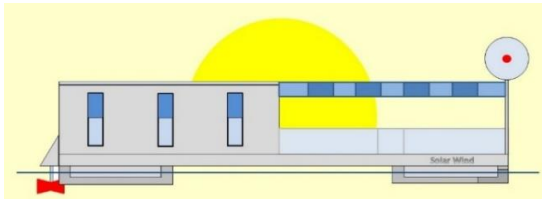
Mostly Above Ground Stand Beside & Net Food Fish Solar Panels Line Top Surfaces (64 Ft<sup>2</sup>)

Practical Home Aquarium Facilities: Solar Powered Filter, Pump, and Aerator

Nutrition Support for Fish: Fish Food & Table Scraps

Fresh Water in Summer (e.g., stock cat fish) Salt Water in Winter (e.g., stock icelandic cod)

## Future Remote Property Augmentation



### Riverside/Lakeside Boat House & 20' Family Boat

*Solar & Wind Electric-Powered River Cruiser*

*All-Natural Power on Quad Pontoons*

*Solarized Cabin Roof & Deck Awning*

*Up to Four Wind Turbines @ Corner Points*

*Family Service for River Beautification & Rehabilitation*



### One-Acre Fully-Wooded Family-Tended Parkland

*Supplemental Source of Green Fire LeaFuel for*

*Homestead & Community*

*Family Service on Behalf of Nature Beautification*

*12T/A/Yr LeaFuel 192 MBTU/Yr 56,000 KWH/Yr*

*3X Energy Need of Typical U.S. Residence*

**Safer, More Economical Millennial Estates Neighborhood Traffic Lights**  
**Traffic Signal, Road Illumination, and Sidewalk Illumination Solar Powered**  
*"Live on an Accident-Free Road"*

**4" D x 8' H Residential Aluminum Traffic Standard**

Steady Red: STOP

Blinking Red: STOP - LOOK - GO IF CLEAR

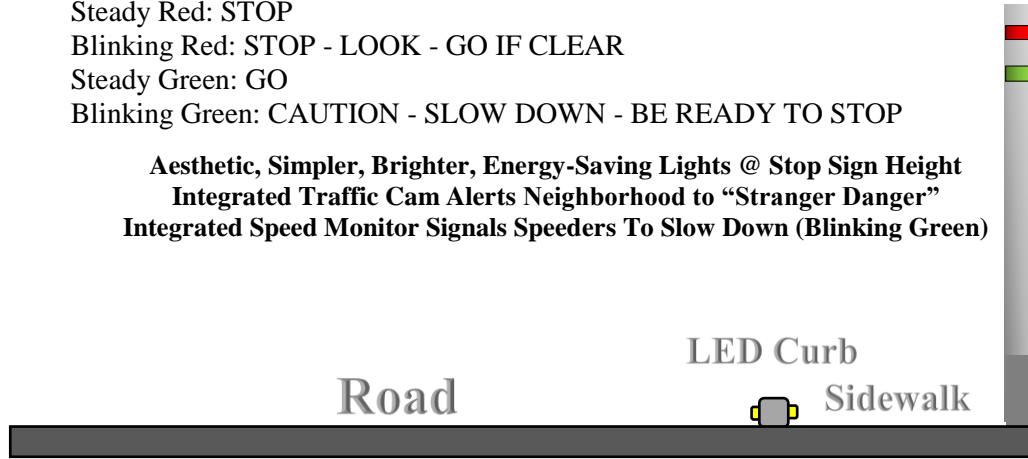
Steady Green: GO

Blinking Green: CAUTION - SLOW DOWN - BE READY TO STOP

**Aesthetic, Simpler, Brighter, Energy-Saving Lights @ Stop Sign Height**

**Integrated Traffic Cam Alerts Neighborhood to "Stranger Danger"**

**Integrated Speed Monitor Signals Speeders To Slow Down (Blinking Green)**



**Near-to-Surface Road & Foot LEDs: *More Light - Less Energy***

**LED Ground-Illumination Insertion Curb 8' Section**



**Removable Curb: Pull to Economically Pave & Re-Pave Roadway & Sidewalk Simultaneously**

**Alternate Vertical Orientation + Multi-Color Signal Light**  
*Can Use Smaller Pole Diameter Without Visibility Loss*  
**One Dynamic Red + Green LED Array Projects All Traffic Control Modes**  
*Red - Intermittent Red - Green - Intermittent Green*



## Elevated Fire-Safe Concrete Pad for Homes in Flood Zone

Pre-Fab Reinforced Structural Concrete Floor Span  
Form Factor Easily Deliverable to Home Site (e.g., 20'L x 4'W x 4" T)  
*Corrugated Galvanized or Aluminized Steel Tray (Like Bridge Sidewalks)*  
*Tongue-In-Groove Edge Fit (Like Traditional Oak Flooring)*  
*Adhesive Seal Each Edge*  
*Drill & Anchor Bolt Each Beam to Footer*  
*Perfect Laser Beam Alignment*



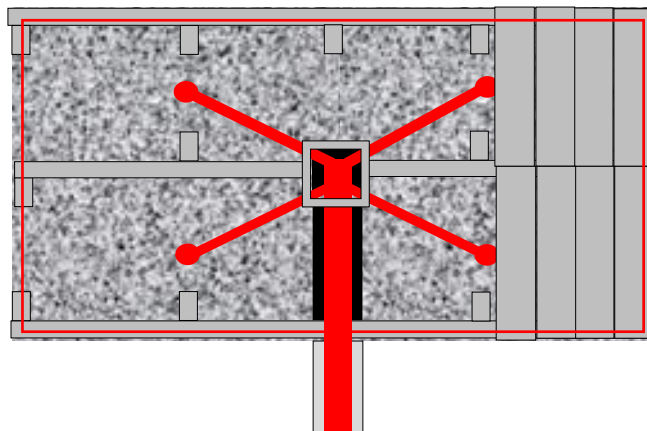
Set Walk Span onto Foundation Block Riser Rows Running Lengthwise Under House & Bolt  
On-Site Construction of Foundation (e.g., 60'L x 8"W x 3'H)  
*Set Crawl Space Height Above Historical High-Water Line for Home Site*  
*Set Inter-Row Spacing So Uniform Beam Length Equally Shares Footer Top*  
*Leave Intermittent Ground-Level Block Vacancies for Front-Rear Water Run-Off*  
*Leave End Zone as Open Crawl Space: Utility Access, Transverse Water Run-Off, Material Storage*  
*Cover Entire Perimeter of Riser Space with Fold-Up or Snap-On Aesthetic Façade*  
*A Crawl Space Foundation Meets the Flood Intensity of Global Warming Better Than Basements & Pads*

### Overhead View of Structural Floor & Utility Strategy

*Pre-Fab Joined Concrete Floor Spans Shown Partially in Place Over Parallel Block Risers*  
*Foundation Block Buttresses Resist Shifting of Parallel Block Footers*  
*Central Waterproof Utility Box Receives Incoming **Utility Lines** for Redistribution Under Floor*  
***Electrical Outlets** Array Along Residence Interior Perimeter to Supply Full Service Wall Partitions*  
*Crushed Gravel Layer Fills Area Under Residence to Control Erosion & Mud*  
*Aluminum Service Creeper with Balloon Tires Navigates Gravel Crawl Space*



*Fastest, Safest, Permanent Foundation & Unitary Structural Floor*



**Elevated Concrete Floor is a Metaphor for Familiar Concrete Sidewalk**

*Installed Sidewalks Cost \$6-12/Square Foot*

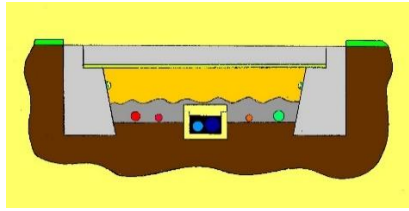
**Polish Concrete Suspension Beams or Overlay with Polished Stone to Fulfill Fire-Safe Home Vision**

*Installed Marble \$10-\$20/Square Foot*

*There is not a more permanent flooring system available: cost per service year is minimized*

## Lift-Up Front Utility Walk Detail

**All Utilities Enter the Property Under the Front Walk Accessible Utility Trench**



**Walkway is Pre-Cast Concrete w/ Corrugated Galvanized Steel Underside**

*(Made Indoors [garage or factory] Any Time Of Year)*

**Set Walkway Sections atop Parallel Concrete “Rails”**

**Bridges Easy-Access Utility Trench**

**Damage-Free Lift-Up Access to Install/Service Utility Lines Entering Residence**

**Incoming Utility Trench Terminates Under Residence in a Waterproof Rectangular Utility Core**

## Concrete Structural Floor Detail

**Overhead View of Suspension Beam**



*Small (1.5”D) Pre-Cast Tubes Flexibly Accommodate Utility Lines From Crawl Space to Interior  
Stone Overlay (e.g., Marble) Bridges & Hides Unused Ports*

**Side View of Suspension Beam**



**Cost: Several Equi-Spaced Pre-Cast Ports Easier to Fabricate than a Few Post-Cut/Drilled Ports**

**Flexibility: Multiple Pre-Cast Utility Ports Better Accommodate Home Interior Layout Changes**

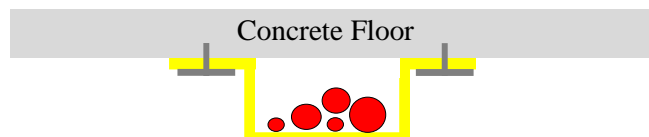
## Under-Floor Utility Conduit

*Slide-On-Bolt Mount Under Structural Floor*

*Neatly Seals & Cradles All Utilities Coursing Under the Residence*

*Nondestructive Update & Maintenance of the Utility Array*

**Cross Section**



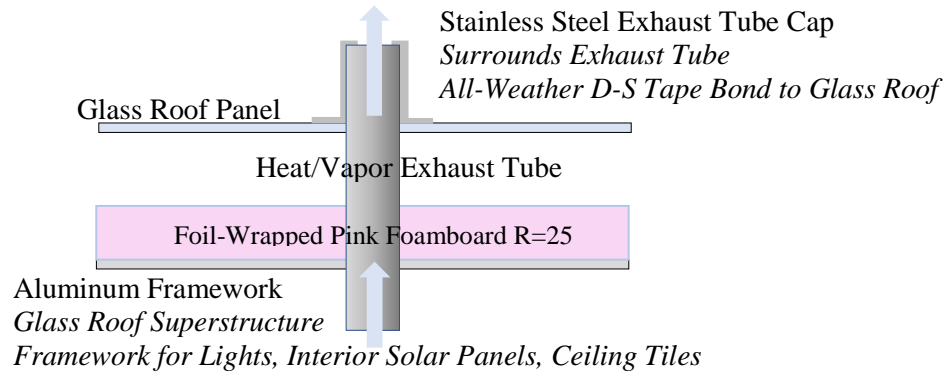
**Elevated Concrete Floor *Economies of Scope + Excavation Savings***

*Standard Structural Floor Sections Can Compose Elevated Patio, Pool Wall & Walkway*

*House-Patio-Pool on Same Trip-Free, Flood-Free Level Bolt-On Safety Railing for Patio & Pool*

## Water-Tight Glass Gable Roof Detail

### Plumbing Vapor and Heat Exhaust Flues



### Precision Pre-Drilled Nut & Bolt Fastening System for Metal-Concrete-Glass

Glass Roof   Ceiling   Wall Frame   Windows   Metal Spanels   Stone Facia  
Concrete Floor   Foundation Block Riser

*No Home is More Securely & Precisely Held Together*  
*Factory Design & Production Supports Easier Delivery Geometry & On-Site Assembly*  
*Fastening System Affords Easy Dis-Assembly for Maintenance*  
*Machine Screw Joints Marvel of Modern Manufactured Housing Technology*

## Home Sweet Home Security

Home-Centered Living with No Fires, No Injuries, No Falls, No Heat Stroke, No Frostbite or Freezing to Death, No Trespass, No Water Shortage or Contamination, No Power Outages, Ability to Endure Weather Disasters Up to One Week, Plan for Long Life & Happy Days.

### Motion Sensors at Perimeter of Property

*Trigger Lights and Automatically Transmit Video to Owner & Authorities*  
**Room Microphones to Channel Calls for Help from Any Family Member**

**A/V Monitors for Infant Rooms**

**Fully-Stocked Medicine Chest & Health-Monitoring Equipment**

**Auxiliary Power & Fuel Storage**

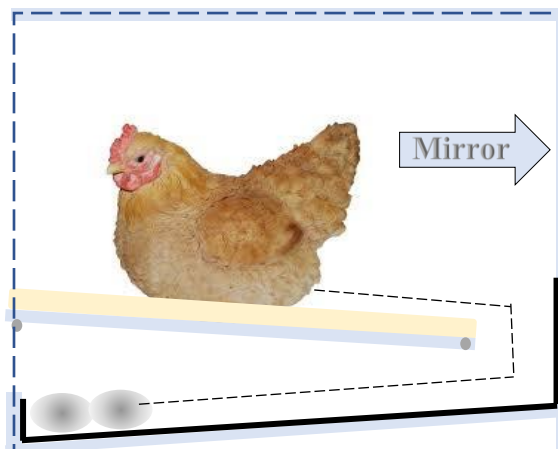
**Water Quality Testing & Monitoring**

**Always A Vehicle At-The-Ready for Emergency Transportation**

**On-Site Emergency Supplies**

*Emergency Radio, Phone, Food, Water, Flashlights, Night-Vision, Oxygen, Blankets, Fire Extinguishers*

## Laying Hens Love Seat



### Cozy Dual Hen Capacity

Aluminum Mirror Finish 3003-H14 or 5005-H14 Sheet 0.032" (1/32")

*Light Weight, Easy Formability, Permanence, Cleanability, Attractive Finish*

*Fire Safe, Odor-Free, Limits Disease & Sickness, Termite-Free, No Painting, No Warpage*

*Roosting Space Appears Spacious on Entering*

*Hens See Inviting Reflections of Themselves*

*Maximum Benefit/Cost Ratio for Application*

*Aluminum Sheet @ \$7/Lb = \$40/Love Seat*

*Easy Brake-Forming & Machine-Screw Assembly*

*Hen Floor Hinged for Easy Cleaning*

*Light Weight (6 Lb)*

*Low-Cost Shipping Easy Placement Easy Toting*

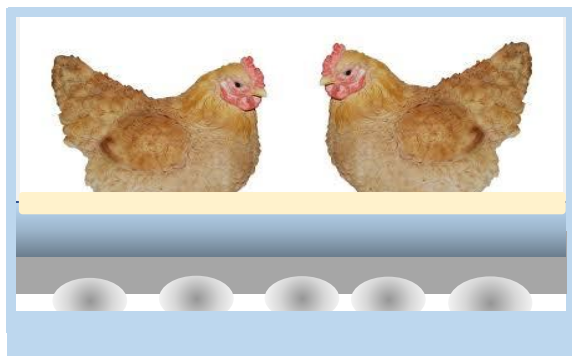
*Bottom-Bolt to Metal Stand*

*Clip-In 1" Perfumed Batting Sweet & Clean Roosting Pads (@\$0.20/Ft2=\$0.60)*

*Optional: Adhesive-Back 1/8" Neoprene-Rubber-Lined No-Break Egg Path (\$4/Ft2 = \$16)*

*Hen Love Seat Affords Quick & Easy, Sanitary Spray-Wash Cleaning*

*No Wood Rot No Warpage No Messy Hay No Dust Limit Odor Limit Disease Clean Comfort*





## Positive Investment Financing *Replace Shaky Home Mortgages*

The Millennial Estate is more than house and yard. It is a highly implemented estate capable of substantial value creation. Salient food and energy features more than cover needs of the family-in-residence. That surplus is rather unique among residential developments of modern America. Typical homes are expense burdens only. The American Dream centers on home life. A house usually is the largest family expenditure with longest financing term a father or husband undertakes in his personal financial life. I am among many who feel society has no right to expect work from a man to generally improve American Quality-of-Life until he has a place for himself and family to live: his very own American Dream Home.

Modern circumstances surround home life with many challenges to the whole institution of home ownership. Many can't afford a home anymore, they have become so expensive. Or, if they achieve home ownership, they cannot hang on to the property. Job dislocations causing families to lose their homes have become quite common. Disasters like hurricanes, tornados, droughts, wild fires, floods, earthquakes, and volcanoes, all consequences of global warming, are sweeping away homes and neighborhoods like never before. Rising divorce rates and preference for single living are dissuading many men and women from long-term obligations like home ownership. If society cannot keep men and women together and securely situated in a home, child-rearing is compromised, and the nation's future drifts into uncertainty. Surely homes are the incubator of worthiest core values regarding love and faith and service. History's character legacy will be squandered if Americans do not have stable, peaceful, affordable home life.

Mortgages on family residences usually are limited to 20 years. The Millennial Estate design endeavors to put greater quality into materials of construction for better fire safety and service longevity. If conventional mortgage philosophy prevails, this needful quality upgrade would increase the size of down payments, raise mortgage payments, and lengthen the term for pay-down. Neither families nor financing institutions want (or hope to successfully bear) this type of financing modification. Under the widening cloud of uncertainty, smaller down payments, lesser monthly payments, and shorter-term financing are generally salutary, if not mandatory.

The Millennial Estate re-casts the home as a value-creating investment, a property that pays for itself, a business enterprise, or a project with large and enduring return – not just an expense. As such, it is fitting for prospective owners to submit a *business plan* or *prospectus* to the enabling financial institution. As with mortgage financing, personal funds are involved, evidence of solvency or sustained income must be judged, and duration of financial capability must be estimated. New to the Millennial Estate Financial Package, however, is emergence of land-generated cash flows. The Estate takes on the quality of a plantation, farm, nursery, or fishery with diverse lines of commercial viability (redundant viability). To operate in this risk-lowering dominion, financial institutions servicing the Millennial Estate must acquire context expertise in solar power, aero power, agriculture, animal husbandry, and aquaculture. Fundamental to financially leveraging this value-creating homestead are a few simple precautions:

**First Caveat:** Make sure there is a *large parcel of land* and *ample sunshine* endowing the residence. I estimate one or two acres are sufficient, well above the typical 1/3-acre suburban homesite, or the zero-land basis of city apartment living. Green Nature brings infinite free flows of food and energy wealth into the millennial family portfolio. Cash flows in a mature (built) nation inevitably decline. Green flows to life *never lapse or dilute*, once they are properly begun. This is the largest risk-reducer available to families and family-finance institutions. The old equation of economic viability placed upon citizens was:

WORK (SKILL & EXPERTISE) → MONEY → INDIRECT NEED SATISFACTION (FOOD, CLOTHING, HOME, CAR)

Since the monetary system is being corrupted by inflation, business cycles, taxes, foreign war expenditures, black markets (e.g., prostitution, drugs), damage repair associated with climate distress willfully caused by

advanced society, etc., the MONEY families earn to buy necessities is becoming a WEAK LINK to survival, an unreliable resource. A man willing and able to work might even find his money cut off by take-overs, layoffs, firings, restructurings, stock market fluctuations, etc. The content value of MONEY has become uncertain, although American manpower producing the surplus behind paper money remains a valuable asset. The remedial equation afforded by Millennial Estate living excludes shaky MONEY from most of the livelihood process:

WORK (SKILL & EXPERTISE) → DIRECT NEED SATISFACTION (FOOD, HOME, CAR, ENERGY)

It is well above the average family's capability to fix the U.S. monetary system, though all vitally depend upon it. But they can voluntarily use their own "free" skill & expertise repertoire to operate a well-structured estate to get what they need directly by easy work. Their TALENT focused on producing tangible wealth IN-SITU amounts to UNWAVERING MONEY: sure work currency predictable, steady, and under family control.

**Second Caveat:** Build the Estate on *low-or-no-tax property*. Raising family self-sufficiency will decrease dependency on government services, allowing federal, state, and local taxes eventually to decline. Taking care of yourself and your own means that Big Brother will be able to assume less obligation to do for you and yours, gradually foregoing his tax-derived income.

**Third Caveat:** Verify that unskilled owners have *contract labor of verifiable competency* lined up to oversee the Estate's productive assets with fair return to their labor (food garden, aquarium fish stock, hen house, solar panels, wind power trees, Green Fire log production, etc.). The Estate must be run by qualified help to fulfill its purpose. Until the family of ownership is up to speed on operating all productive assets, value-sharing experts must be reliably engaged.

## **Millennial Estate Social & Spiritual Reform**

Worldly forces today have been distracting Americans and others from the Spiritual Core of individual sanctity, family love & solidarity, home life & security, and land as a munificent gift from God, not to be taxed or trespassed. As these trusts have lapsed, so has the order of society fallen into less profitable, unhappier configurations. The intrinsic work content of the Millennial Estate will help to revitalize family life and order. The husband who builds or buys the Estate can bear the somewhat heavier outdoor duties, while his beloved wife lives there free & clear, assuming rather light housework and delicate child care. It will not work without good & loving, husband & wife & family teamwork, somewhat like humanity's original days in the Garden of Eden. Women and children especially, can expect *happy dependency* under a shepherding male head-of-family and household. Safe, surely-rewarded work of the Millennial Estate can be seen as a lifestyle choice far superior to men and women living the single life, or women forced to compete with men in the workplace for means to live (often in dangerous professions of law enforcement, military service, fire-fighting, or cut-throat, declining office-based knowledge work and business administration). With less industrial work going on in a built-up society, there simply is less need for office-based business administration. Expanding the big-city office-building model amounts to unwise investment imbalancing the economy, promoting inflation within the monetary system, over-expending energy, damaging climate, creating career dislocation, and limiting progeny critical to culture preservation. All these maladies go away as investment in the Millennial Self-Sufficiency Family Estate bears fruit. The home-centered, family-centered Millennial Estate lifestyle becomes a significant occasion for Spiritual revival, restoration of family values & viability, and re-harmonization of man with munificent Nature. Widely adopted, it can bring peace and prosperity to all on Earth so dearly loved by God (John:3.16).

A special dividend of Millennial Estate living is opportunity for *earlier love and marriage*. With singles desperately chasing money in a money-shrinking, mature economy, the workforce is double its usual size

and chasing fewer and fewer jobs. If only males were employed (and taking care of females via marriage), the declining real work obligation of society (mostly maintenance) would afford workmen a shortened workweek. Technical intensification of modern society also would simplify and lighten the “shrinking” work burden, bringing easy “push-button” jobs. Given the health and intelligence of today’s youth, one might say that modern work can become “kid’s play.” What it critically *needs* to become is an easier-than-ever pathway to love, marriage, home, and family. Right now, the less popular marriage choice is made at an average age of 28 years, and the present socio-economic structure distresses the institution so much, marriages break after about 8 years of anxious bliss.

### The Millennial Estate: Springboard for Serious Young Love



**Economic Readiness for Marriage:** Duties of the Millennial Estate can be mastered by teenage years if our educational compass points youth in that direction early. In other words, it is possible for Young America to marry when they are teenagers. Think of all the youth problems that just go away if sweet and early “April” love rises to the TOP of the American agenda.

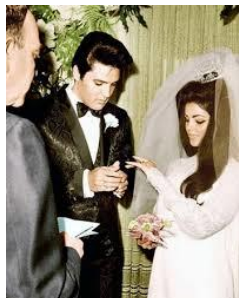
**Spiritual Readiness for Marriage:** Jews and God regard their boys “men” at age 12, through celebration of *bar mitzvah*. Having learned to pray, they transform from boy to man and Son in the eyes of God. The male Son of Prayer can have all he needs and all he asks from our loving God and Heavenly Father when he knows how to respectfully petition the LORD in prayer.

*Seek ye first the kingdom of God, and his righteousness; and **all things** shall be added unto you. Matthew:6.25-34*

*If ye abide in me, and my words abide in you, ye shall **ask what ye will**, and it shall be done unto you. John;15.7*

*These things have I written unto you that believe on the name of the Son of God; that ye may know that ye have eternal life, and that ye may believe on the name of the Son of God. And this is the confidence that we have in him, that, if we ask any thing according to his will, he heareth us: And if we know that he hear us, whatsoever we ask, **we know that we have (receive) the petitions that we desired of him.** 1 John:5.13-15*

**Physical Readiness for Marriage:** The modern teen is smart enough and strong enough to work into young marriage if society grants the opportunity. They are so physically qualified and motivated in the sexual category, many large sexual problems engulf teens if they *cannot marry* (abortions, sexually transmitted diseases, single moms, loss of sexual orientation, loss of libido, drug habits, etc.). Some poor-become-famous souls married young: Loretta Lynn, the Coal Miner’s Daughter, known for “Stand By Your Man,” was wed about age 13. Wealthy-famous older-and-younger top-pop singers Jerry Lee Lewis and Elvis Presley (making his plea to “Love Me Tender”) married sweet teen girls, preferring them to the less-principled throngs of female fans wildly and sometimes hurtfully pursuing them. My dad, a prospered teenage big-band singer



put love ahead of money by marrying at age 16. A generation later his oldest daughter married at age 17 (while in public school) to a hometown graduate early into his gainful career. Both were blessed with five kids in their early-to-marry love story. The message seems to be that youth, especially the girls, will choose early love & marriage if economics allow. The Millennial Estate can provide that broad-based, love-first *economic springboard*. Few may sing their way into economic sufficiency.



But the amazing array of tools God has inspirationally put at American fingertips make even the slightest young man powerful to do great & prospering works in his special “place in the sun,” for those he loves and cares for most. It is getting



harder to see love in today’s busy, competitive, micro-matic, treadmill world. Youth especially are passionately searching electro-screens 50 hours a week for it, usually coming up empty. The Millennial Estate, by contrast, shows *abundant* love to God’s man through his God-given wife, children, happy home, huge fruit & vegetable garden, food fish hopping onto dinner plates, chickens & eggs galore; and green-vine fuel to keep the family reliably warm every winter, even move their vehicles along. First-hand

living-vine tangibility daily growing before the eyes of modern Lambs of God is real love, empowered to keep each tiny flock together, secure in faith, hope, health, and happiness.

## Turn-Key Contract    *All Things Ready*



The Millennial Estate is about as diverse a private homestead construction project as any homebuilder might undertake, far more than just living space. Since it is or can be the vital starting point for the youngest adults yet embarking on home & family living, it should have all start-up problems anticipated and resolved. When homebuilders operate to a standard of full readiness for occupancy, they call it a “turn-key” contract. When the home is complete, including landscaping, they simply turn the key over to the owner, and he enters the abode ready to live in it, not finish it, or troubleshoot a host of unexpected flaws. In short, it is the best a builder can do, the industry’s “best practice.” It is “red carpet” treatment, or “five-star” service, not “caveat emptor.”

For homebuilders to “Father” young marrieds through their first homeownership *baptism by fire*, they really need to collaborate with others in the industry and connected industries. This circle of home & property expertise and skill far exceeds anything young couples are likely to marshal for success upon entering this comprehensive, self-sufficient lifestyle. Builders are best qualified to anticipate all the obstacles and smooth the start-up process. Forming a Millennial Estate Builders Association is recommended to help this collaboration and refinement to full success.

While society is re-orienting towards younger marrieds and self-sufficient living, early Millennial Estate owners are apt to be somewhat naïve about the responsibilities to which they dedicate. Accordingly, a Millennial Estate Owners Association should form to disciple early adopters of the concept. An obvious help the MEOA might render is establishing a library of Best Practice Instructional Videos on each facet of Estate living (e.g., pool operation, hen house, fish pond, food garden). Another initiative might be a Help Line any stymied Estate owner might use to get advice from more-experienced fellow owners. This would be in addition to a Millennial Estate Builders Association Help Line, or direct contact with the owner’s Turn-Key Builder. In a permanent residence, maintenance is the key to long and happy homestead

experience. Help Lines and Best Practice Instructional Videos can be cornerstones of success as a new generation embraces and faithfully trains to sustain this liberating home-centered, self-sufficiency lifestyle.

**Millennial Estate *Concept, Drawings, Calculations***  
**William C. Patterson, B.S.Met.E., M.B.A., Ph.D.**  
**Global Environmental Service 2018**



*In my Father's house are many mansions: If it were not so, I would have told you.  
I go to prepare a place for you. And if I go and prepare a place for you,  
I will come again and receive you unto myself; that where I am, there ye may be also.*  
**Gospel of John:14.2-3**

**Addendum**

**Winter Crawl Space Air Bladder**

A relatively open crawl space can reduce floor temperatures of the residence during winter months. This chilling effect can be mitigated by inflating an expansive air bladder within the crawl space to provide insulative quality. Generalizability of a soft-face air bag would allow the home owner keep stored objects in place, continue use of any solar batter pack situated in the crawl space, or keep plumbing conduit from freezing and breaking. Air bag insulation will allow solar batteries to operate at higher, more efficient temperatures in the winter. An air bag can even be heated by internal electric lamps to warm contacted flooring, batteries, or plumbing. It also is possible to design a perimeter air bag that seals the crawl space from cold winter air and winds at the periphery, somewhat like a gasket. In this case, supplemental heating could be supplied by lamps strategically set on the shielded side of the sealing air bladder.

**Metal & Glass Kitchen**

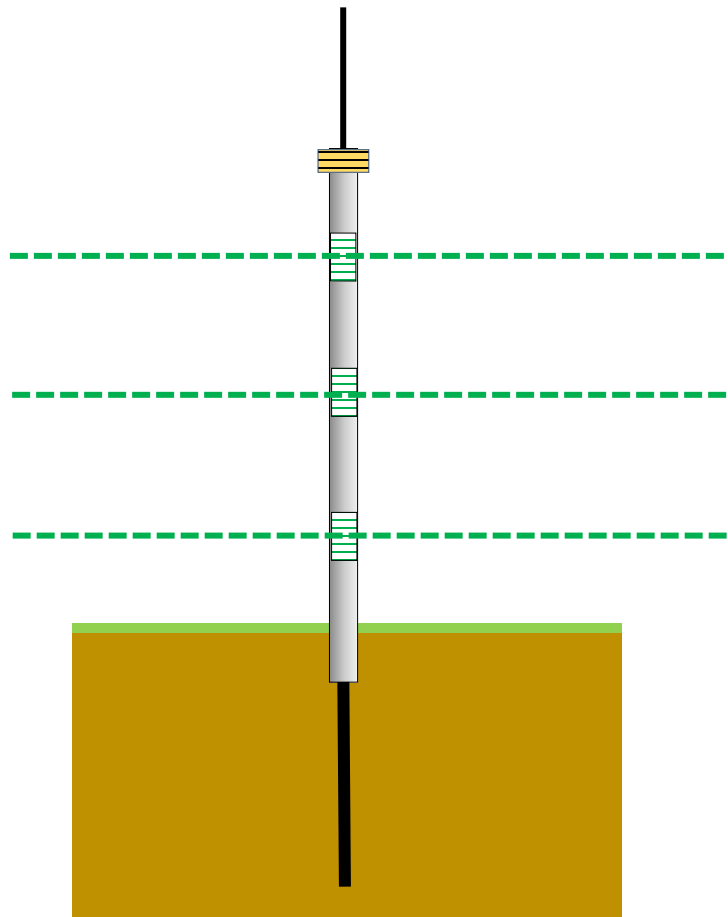
Constructing kitchen cabinets from metal and glass greatly increases fire safety in the most fire-prone room of modern houses. Internally-lit metal cabinets can be faced with glass doors and drawers given one-way mirror facia. When the cabinet and drawer interiors are illuminated, contents can be seen clearly from the outside, enhancing swift identification and recovery of needed items. Leaving cabinet and drawer interior lights off when the kitchen is not operating yields mirror reflection from all facia that is both attractive and space-expanding.

**Invisible LASER Fence**

It is possible to secure the Millennial Estate using light rather than wood, metal, or plastic fences. A light fence conveys the sense of freedom and unspoiled beauty. It should be easier and more economical to erect.

With electronic interfacing, it will be able to swiftly trigger nearly unlimited response to trespass, a capability lacking in physical fences. Accordingly, it is more psychologically preventive than physically preventive. With even the slightest trespass, however, programmatic and volitional response can instantly terminate the trespass well away from living quarters or valuable property.

Below are illustrations of LASER Fence technology. For a one-square-acre Millennial Estate, the LASER Fence would hug the perimeter of 836 feet (209' per side). Only 4 Light Posts are needed to manage a redundant array of 3 LASER beams around the property: one Control Standard and three Relay Standards. This material-efficient and cost-efficient fence implementation is wirelessly integrated from within the property, engendering yet another cost savings with huge security control benefits.



Top Antenna Transmits and Receives Telemetry and Operating Power  
 Top Amber LED Affords Night Illumination and Signals Operational Status  
 Invisible LASER Beam Transmitters and Reflectors Position At 1/2 and 2.5 and 5 Feet Above the Ground  
 Durable Aluminum Post Houses Mirrors, LEDs, LASER, Electronics  
 Bottom Stake Anchors Security Standard Accurately in Place & Allows Fine Position Adjustment  
 Light Fence LASER-Trip Response  
*Estate Lights & Cameras    Audio Alarm    Hi-Frequency Pest Repeller*  
*Notify Authorities (Including Owner)    Long-Distance Non-Lethal Weapons    Watch Dogs*