

TRENDS IN RESIDENTIAL DESIGN



JENNIFER G. HORN, RLA



INTRODUCTION

ASLA 2014 TRENDS SURVEY <http://www.asla.org/land/LandArticle.aspx?id=42527>

Across all categories

Percent Rating Popular or Somewhat Popular:

98.3% lighting

97.7% seating/dining areas

95.4% fire pits/fireplaces

94.3% grills

89.6% installed seating (benches, seatwalls, ledges, steps, and boulders)

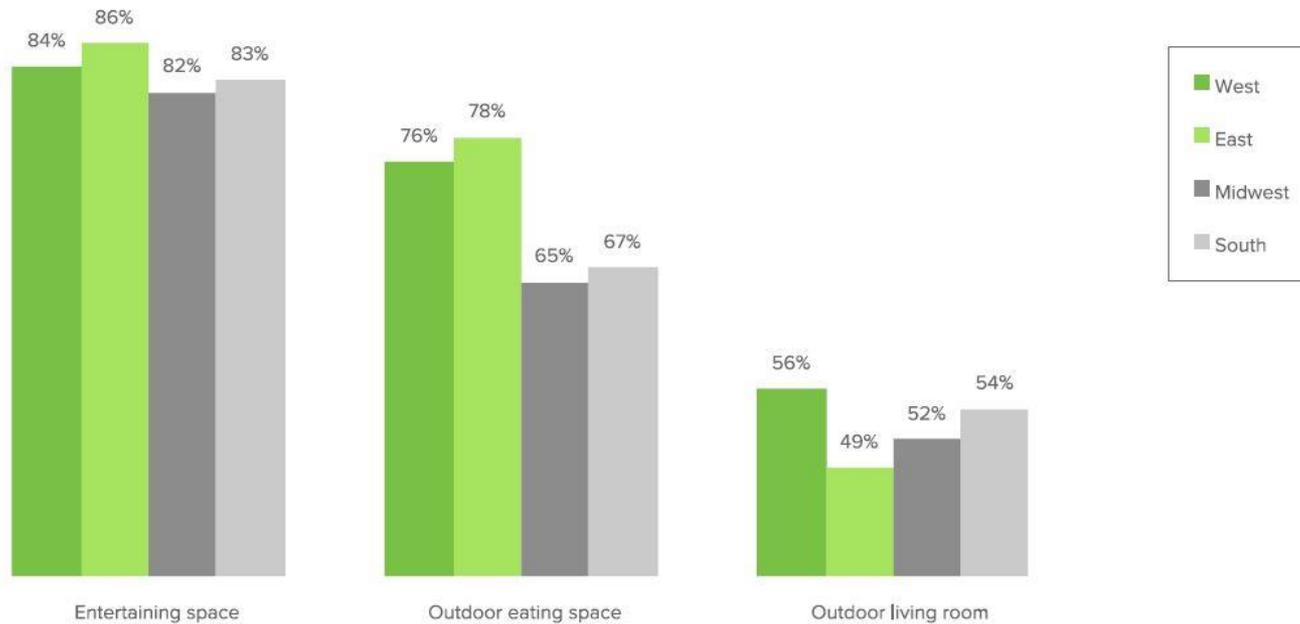
HOUZZ SPRING LANDSCAPING TRENDS STUDY 2014

Outdoor Activity



Homeowners in the East and West are most likely to use their backyard as an outdoor eating space.

BACKYARD USES

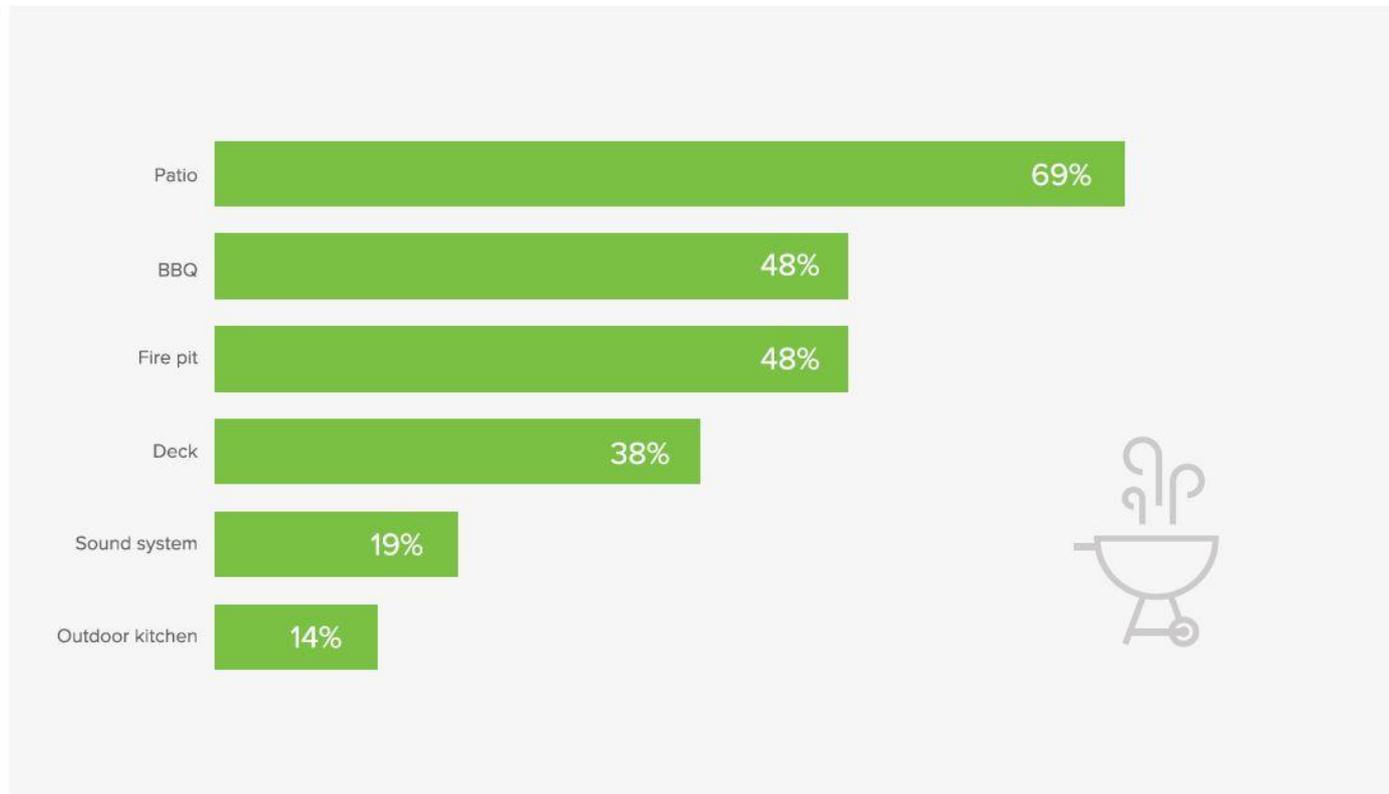


HOUZZ SPRING LANDSCAPING TRENDS STUDY 2014

Entertaining Elements



Nearly half of homeowners who are undertaking a landscape project are adding a fire pit.



INTRODUCTION

Landscape architect vs. landscape designer vs. landscape contractor



A landscape architect is a person involved in the planning, design and sometimes direction of a landscape, garden, or distinct space. The professional practice is known as landscape architecture.

To be called a landscape architect, an individual must have a state license and most likely received a degree in landscape architecture from an accredited university.



The term landscape designer is sometimes used to refer to those who are not officially qualified or licensed as landscape architects.

They prepare landscape design drawings for masonry, planting, etc. but do not stamp drawings.



A landscape contractor is someone who implements the design that was envisioned by the landscape architect or landscape designer.

Their work can include trades like masonry, lighting, irrigation, and planting.

OUTDOOR COOKING & DINING



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OUTDOOR COOKING & DINING

ASLA 2014 TRENDS SURVEY

Outdoor Living Features category

Percent Rating Popular or Somewhat Popular:

97.7% Seating/dining areas

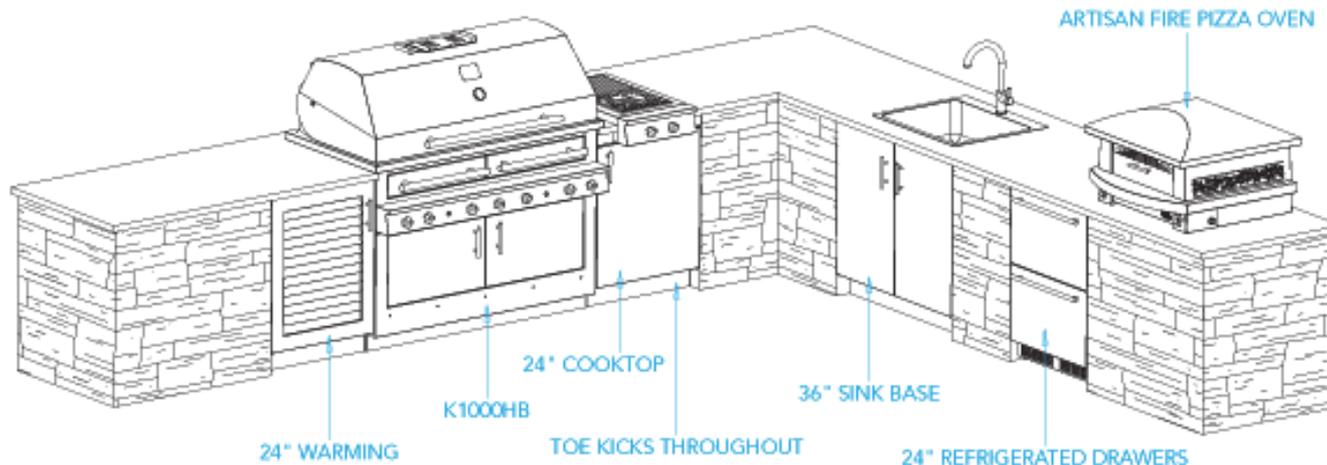
94.3% Grills

75.5% Counter space

OUTDOOR COOKING & DINING

Locating an outdoor kitchen

- Distance from interior kitchen
- Capacity - # of people
- Including the cook in the party
- Counters against the house to reduce utility work



OUTDOOR COOKING & DINING

Functionality

- Designing for the elements
- Overhead shelter
- Countertop temperature
- Night lighting
- Storage
- Maintenance



Studio H Landscape Architecture

OUTDOOR COOKING & DINING

Counter space requirements

- Ample counter space needed around grill and sink in particular
- Stain resistance



Terra Firma Landscapes . Photo by Maren Caruso

OUTDOOR COOKING & DINING

Utilities

- Gas line
- Water supply
- Grease trap / waste water
- Electric / GFI
- Task lighting – grill light or sconce



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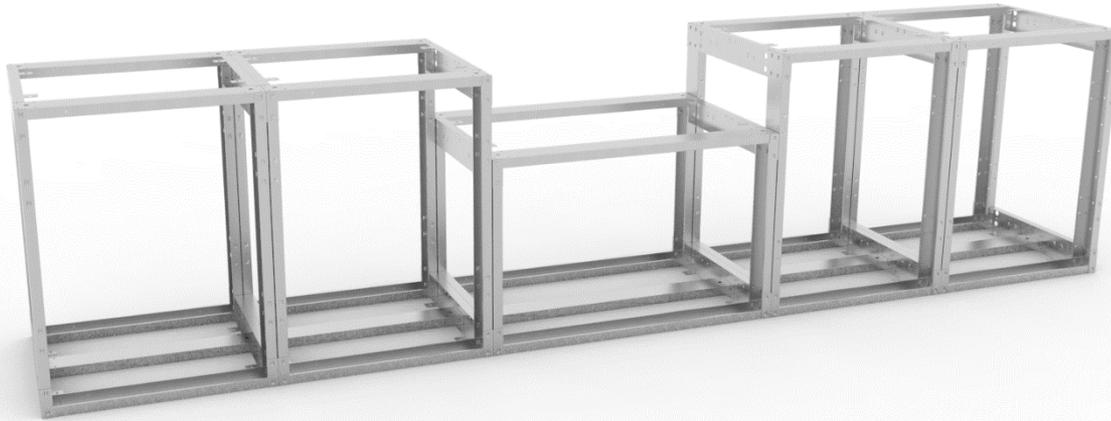
OUTDOOR COOKING & DINING

Grill surround structure: *Masonry*



OUTDOOR COOKING & DINING

Grill surround structure: *Steel-framed with cement board*



Fresco Frames

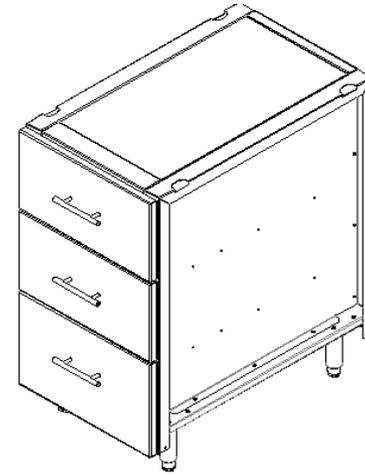
OUTDOOR COOKING & DINING

Grill surround structure: *Masonry*



OUTDOOR COOKING & DINING

Grill surround structure: *Modular units*



Kalamazoo Outdoor Gourmet



OUTDOOR COOKING & DINING

Grills



Gas



Charcoal



Hybrid

OUTDOOR COOKING & DINING

Other Appliances



Outdoor refrigerator



Big Green Egg



Wine cooler



Ice maker

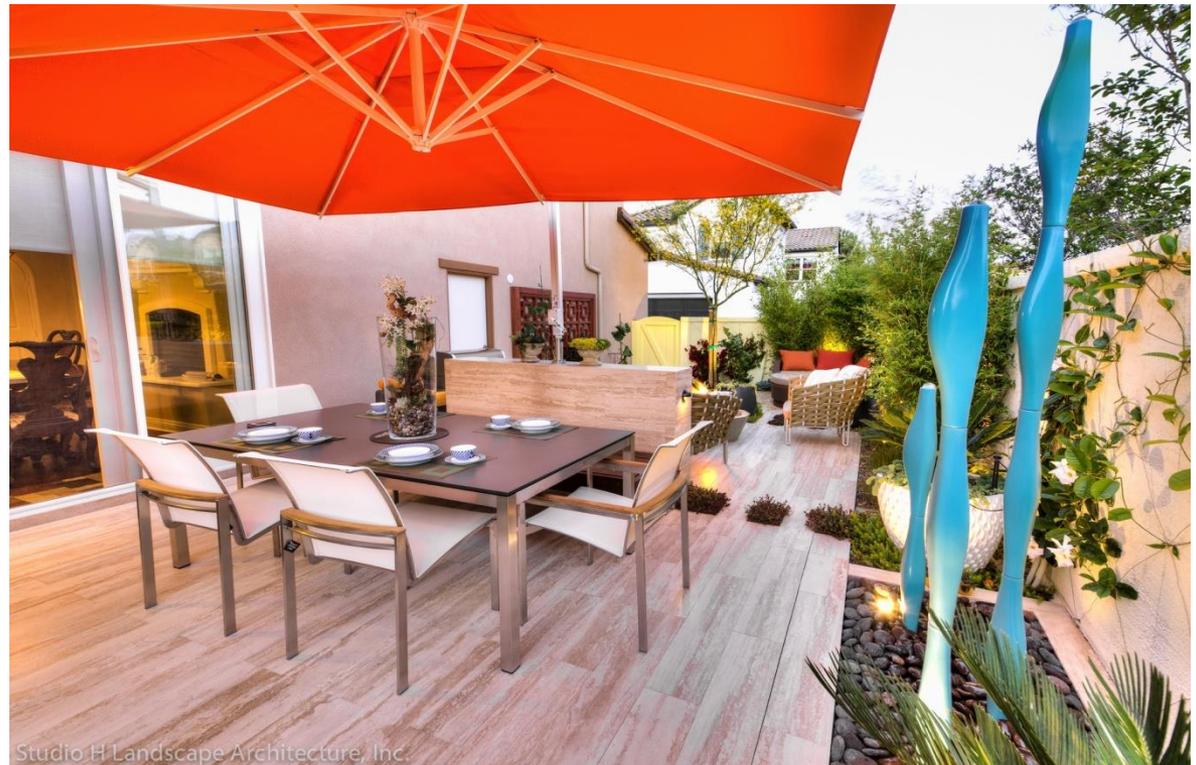


Smoker

OUTDOOR COOKING & DINING

Other Considerations

- Set aside a budget.
- Provide conduit for future connections – gas, water, sewer, etc.
- Locate ideal area for future or phased outdoor kitchen and confirm area within relevant setbacks.
- Consider consistency among indoor and outdoor appliances.



OTHER OUTDOOR FEATURES

Fire pits and **fireplaces** are frequently requested by homeowners seeking to extend their gardens' use into early spring and late fall. These features also function as outdoor focal points.

- Level of warmth provided
- Noise – noticeable gas release
- Ambiance
- Maintenance and safety concerns

WOOD-BURNING FIRE PITS

- Prefabricated
- Custom



Fire Pit Art



William Renninger Associates

GAS FIRE PITS

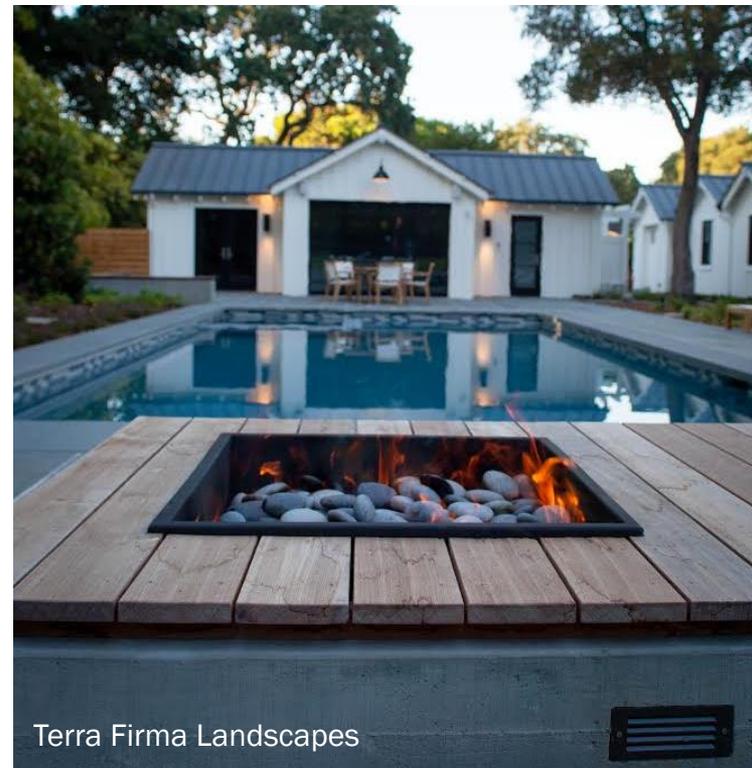
- Prefabricated
- Custom

Components include:

- Burners
- Burner pans
- Fire glass
- Fire sand
- Ignition switches
- Wall switches and covers



Studio H Landscape Architecture



Terra Firma Landscapes

Photo by Rachel Moises

OUTDOOR FIREPLACES

- Prefabricated
- Custom
- Gas
- Wood



Phoenix Fireplaces



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FIRE PIT / FIREPLACE CONSIDERATIONS

- Proximity to trees and overhanging branches
- Wood storage as needed
- Gas availability as needed – natural gas or propane
- Seasonal wind patterns
- Safety and seating plans

RAISED BEDS FOR EDIBLE GARDENS



Lutsko Associates - Photo by Marion Brenner



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RAISED BED CONSIDERATIONS

- Soil testing – not native soil!
- Safe use of chemicals
- Honest assessment of homeowners’ desire to garden
- Irrigation and water maintenance
- Sun and shade



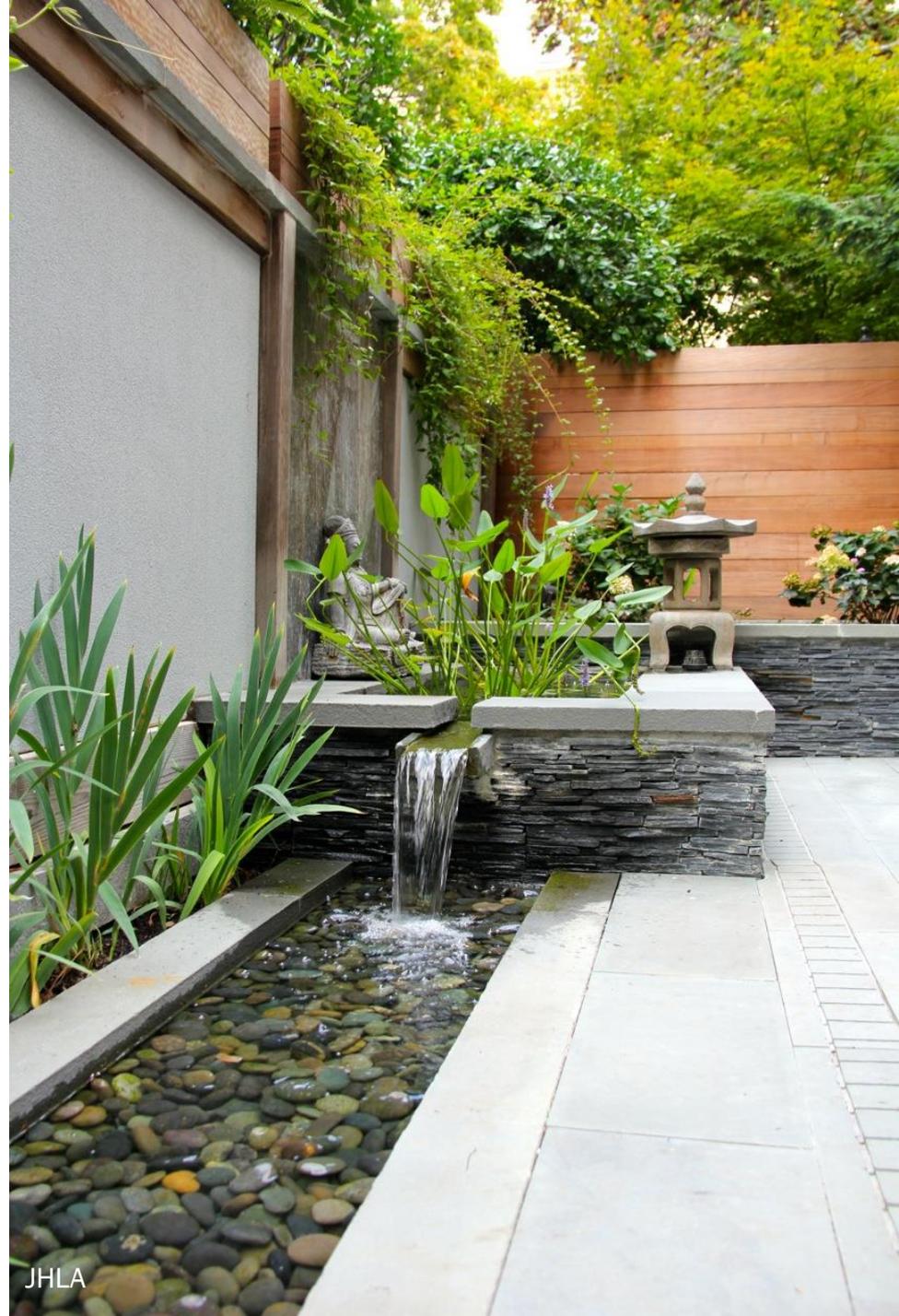
WATER FEATURES



WATER FEATURES

- Favorite landscape features requested by homeowners
- Proven to aid in relaxation
- Buffer unwanted noise
- Recirculating vs. closed systems
- Chemical use with aquatic plants
- Integrated lighting as separate zone
- Living vs. non-living

Can be fountains, waterfalls, living pond systems and bubblers.



WATER FEATURES



BUBBLERS

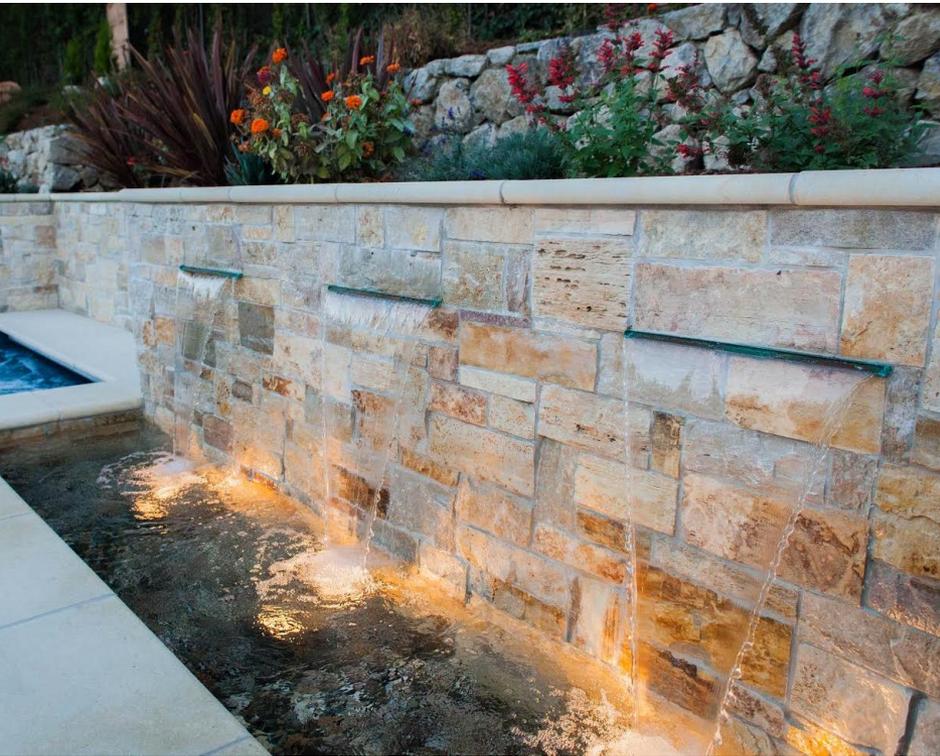


James Hughes Landscaping



Restoration Hardware

FOUNTAINS / ARCHITECTURAL WATER FEATURES



Terra Firma Landscapes. Photo by Rachel Moises.

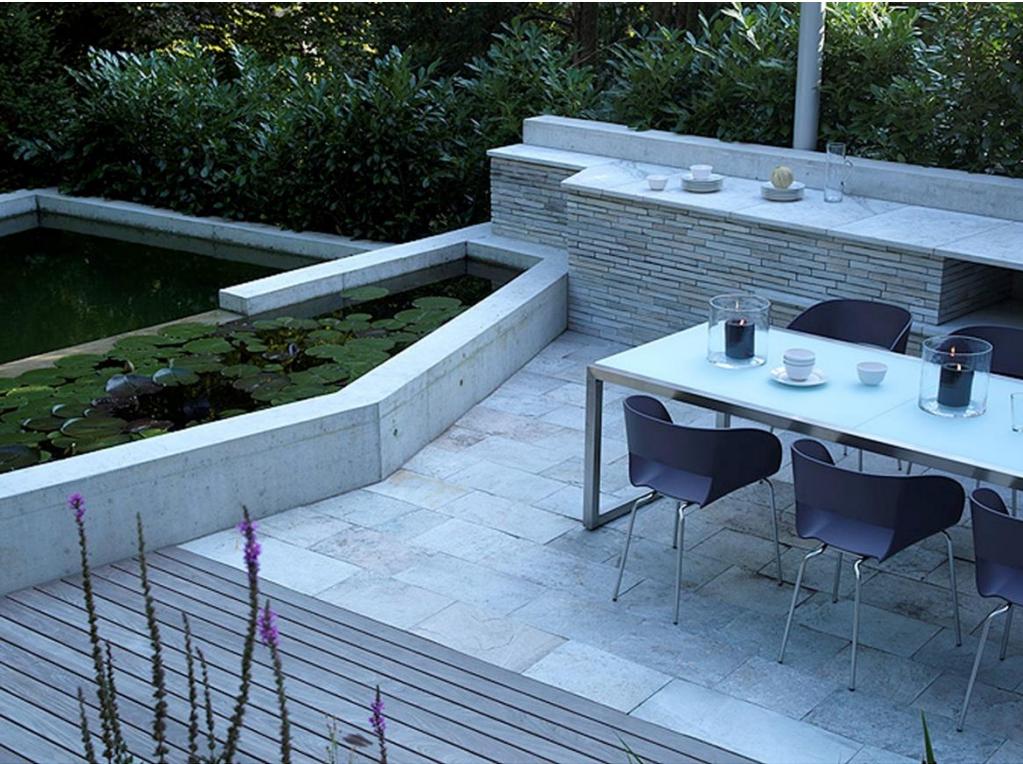


Studio H Landscape Architecture

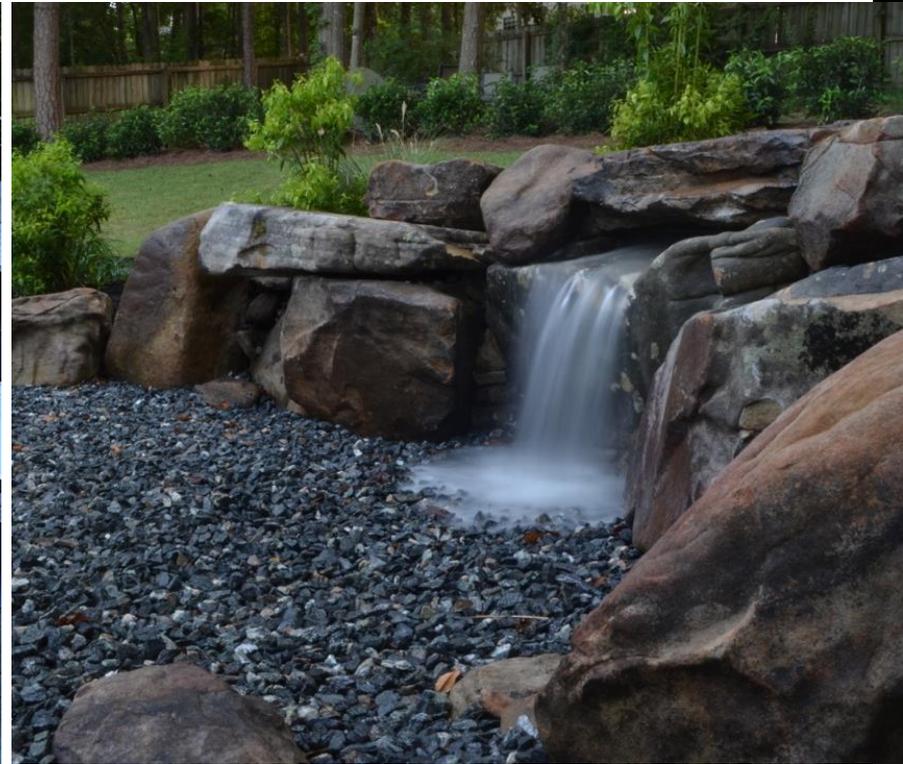
NATURALIZED WATER FEATURES



LIVING POOLS



Fletcher Studio



James Hughes Landscaping

WATER FEATURES

Components:

- Pump
- Weirs
- Spouts
- Filter (skimmer, biofall, UV filter)
- Auto-fill devices
- Overflows
- Lighting
- Fish

Considerations:

- Cleaning, algae and winterization
- Expense / budget
- Safety
- Drainage and overflow
- Submeter

MUSIC & SOUND SYSTEMS

- Outdoor speakers with wireless control or via phone
- Speaker placement
- Outdoor graded products



Theater One

OTHER OUTDOOR FEATURES

Climate control: Cooling and misting systems



Mist Cooling



OTHER OUTDOOR FEATURES

Climate control: Ceiling fans and outdoor heaters

Gas vs. electric



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Solairia

OTHER OUTDOOR FEATURES

Outdoor furniture

- Moving beyond teak
- Woven synthetics



OTHER OUTDOOR FEATURES

Outdoor furniture: All-weather fabric





Outdoor furniture: Custom-built



Outdoor furniture: Custom-built

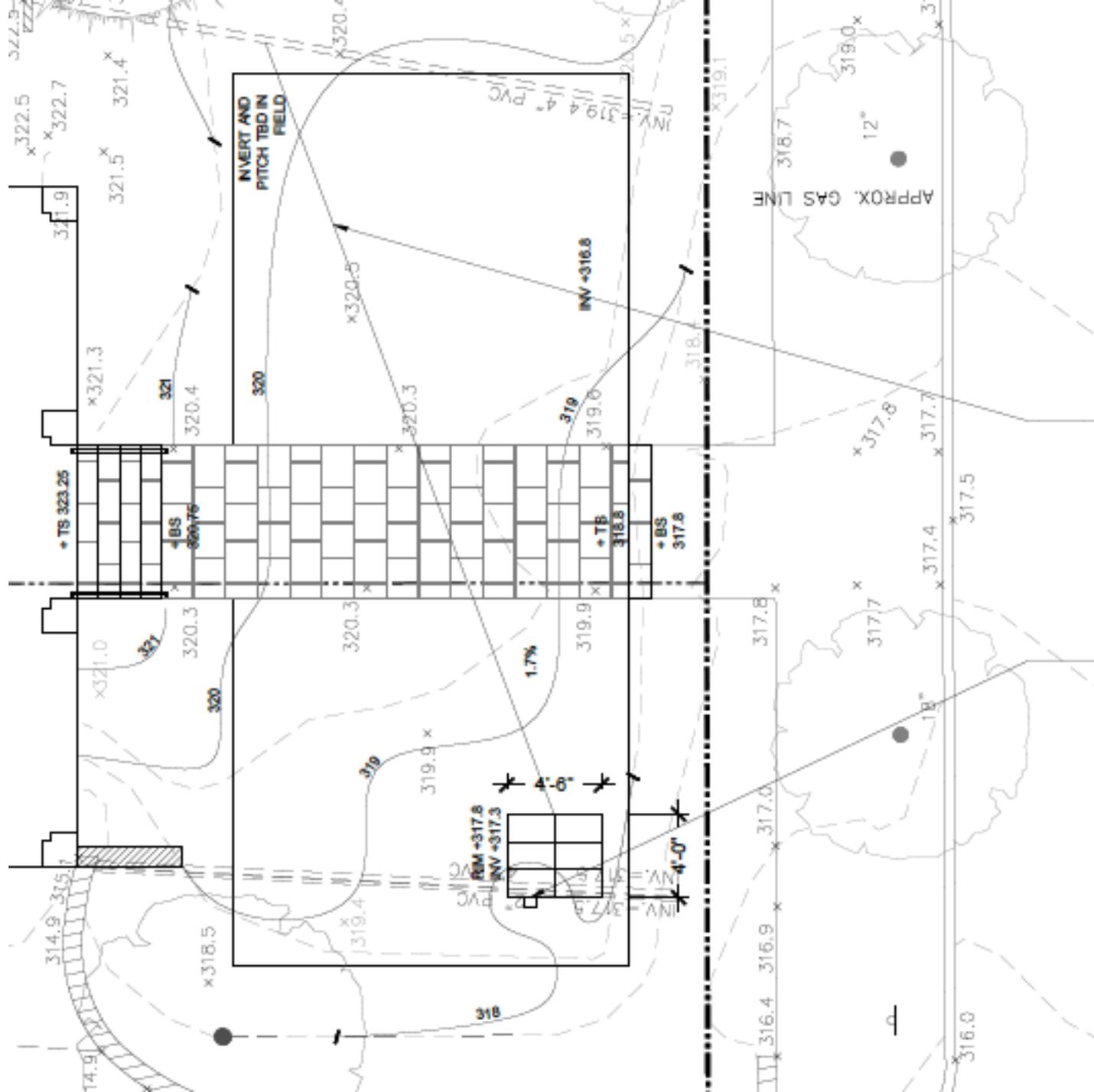
Terra Firma Landscapes. Photo by Maren Caruso

STORMWATER MANAGEMENT



STORMWATER CALCULATIONS

<u>PROPOSED HARDSCAPE TYPES (CN NUMBER) AND SQUARE FOOTAGE:</u>		<u>3 MONTH STORMWATER CALCULATIONS:</u>		<u>10 YEAR STORMWATER CALCULATIONS:</u>	
	ROOF (98): 380	IMPERVIOUS SURFACES:	LAWN:	IMPERVIOUS SURFACES:	LAWN:
	CONCRETE PATIOS (98): 0	$S = \frac{1000}{CN} - 10 = .2$	$S = \frac{1000}{CN} - 10 = 3.3$	$S = \frac{1000}{CN} - 10 = .2$	$S = \frac{1000}{CN} - 10 = 3.3$
	WALLS (98): 79	$Q = \frac{(1.25-0.2S) * (1.25-0.2S)}{(1.25 + 0.8S)} = 1$	$Q = \frac{(1.25-0.2S) * (1.25-0.2S)}{(1.25 + 0.8S)} = 0.09$	$Q = \frac{(5.1-0.2S) * (5.1-0.2S)}{(5.1 + 0.8S)} = 4.9$	$Q = \frac{(5.1-0.2S) * (5.1-0.2S)}{(5.1 + 0.8S)} = 2.5$
	LANDSCAPE FEATURES -SUCH AS GRILLS (98): 42	REQ. STORAGE VOLUME (CF) =	REQ. STORAGE VOLUME (CF) =	REQ. STORAGE VOLUME (CF) =	REQ. STORAGE VOLUME (CF) =
	NATURAL STONE ON CONCRETE SLAB (98): 948	Q/12 X IMPERVIOUS AREA (SF)	Q/12 X IMPERVIOUS AREA (SF)	Q/12 X IMPERVIOUS AREA (SF)	Q/12 X IMPERVIOUS AREA (SF)
	STEPS (98): 145	1/12 X 1594 = 133 CF	0.09/12 X 290 = 3 CF	4.9/12 X 1594 = 651 CF	2.5/12 X 290 = 61 CF
	RAISED TERRACES / STOOPS (98): 0	TOTAL STORAGE VOLUME REQUIRED = 138 CF		TOTAL STORAGE VOLUME REQUIRED = 712 CF	
<hr/>					
	TOTAL SQUARE FOOTAGE AT 98 CN: 1594				
	PROPOSED ADDITIONAL LAWN (75): 290				



PVC PIPE TO CONVEY WATER FROM NW CORNER OF HOUSE TO DRYWELL AS SHOWN. CONTRACTOR TO NOTE LOCATION OF EXISTING GAS LINE.

18X18 INLET WITH PVC PIPE TO CONNECT TO DRYWELL.

(6) ATLANTIS D RAIN TANK DOUBLE MODULES, 16.91"X26.97"X34.65" GROSS WATER STORAGE PER UNIT: 8.69 CF TOTAL STORAGE THIS LOCATION: 52.14 CF SQUARE FOOTAGE OF FOOTPRINT: 18 SF

STORMWATER MANAGEMENT

Dry well: Underground cavity that holds storm water until surrounding soil will allow the water to merge with local groundwater.



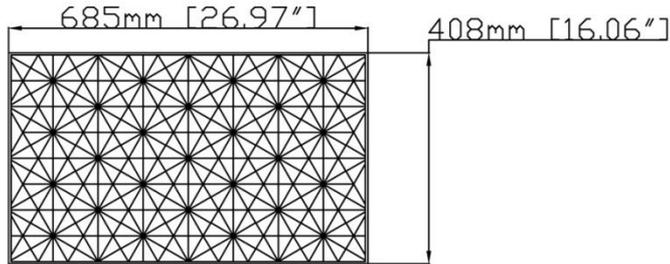
In the Watershed



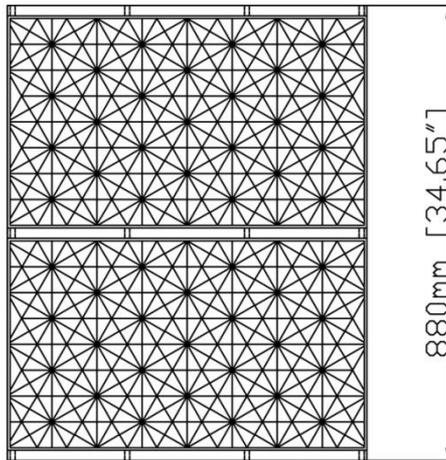
DIY Network

STORMWATER MANAGEMENT

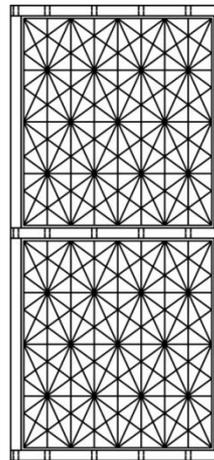
Underground storage tanks



Plan View



Side View



Front View

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Drawing No: AOP 0020



Atlantis® Double Matrix® / Flo-Tank® / D-Raintank® Module - Part No. 70004		
Dimensions (W x L x H)	408mm x 685mm x 880mm	16.06" x 26.97" x 34.65"
Module Footprint	0.2795 m ²	3.011 ft ²
Ultimate Compressive Strength	24 t / m ²	34 PSI
Gross Volume	0.246 m ³	8.69 ft ³
Storage Capacity	233 L	61.56 gal

Distributed by:

www.RainHarvest.com
 770-889-2533

STORMWATER MANAGEMENT

Underground storage tanks



STORMWATER MANAGEMENT

French drain: a trench filled with gravel or rock or containing a perforated pipe that redirects surface water and groundwater away from an area. Commonly a perforated pipe wrapped in filter fabric set in a bed of gravel.



Matas Paving



Marshall's Group

STORMWATER MANAGEMENT

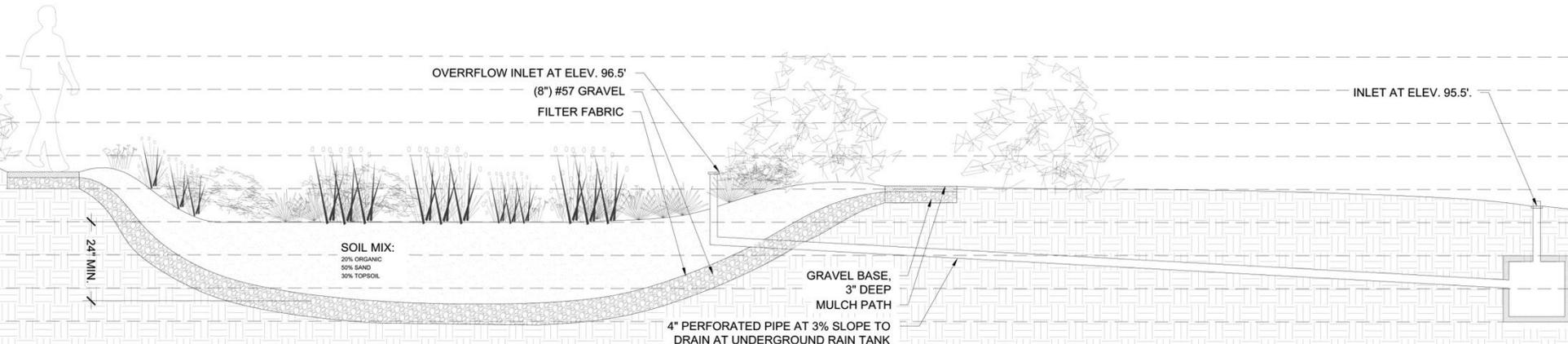
Rain garden: a planted depression or a hole that allows rainwater runoff from impervious surfaces to be absorbed in to local groundwater in order to improve water quality in nearby bodies of water.



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Indianapolis Museum of Art



STORMWATER MANAGEMENT

Downspouts on houses can be:

- Buried and connected to underground water storage systems
- Routed to daylight away from the house



Hometown Lawn

Buried downspout: diverts water away from house foundation in non-perforated pipe



Local Philosophy

Rain barrel: a system that collects and stores rainwater from your roof that would otherwise be lost to runoff and diverted to storm drains and streams.

STORMWATER PLANNING CONSIDERATIONS

- Calculate change in non-porous surfaces.
- Determine volume of water for various storm events.
- Identify best method to slow or store stormwater
- Consult with a landscape architect, civil engineer or surveyor when planning for stormwater management.
- Water storage requirement depends on size of property and storm frequency.

A photograph of a modern, eco-friendly building with a blue metal roof and large glass windows, situated in a field of tall grass and wildflowers. The building features a mix of stone and brickwork. The foreground is dominated by tall, green and yellow wildflowers. The background shows more trees and a clear sky.

ECO-FRIENDLY STRATEGIES

ECO-FRIENDLY STRATEGIES

ASLA 2014 TRENDS SURVEY

Landscape and Garden Elements category

Percent Rating Popular or Somewhat Popular:

95.4% low-maintenance landscapes

84.5% native plants

76.4% food and vegetable gardens (includes orchards and vineyards)

ECO-FRIENDLY STRATEGIES

Drip irrigation: Temporary or permanent

Considerations:

- Backflow
- Timer/clock locations
- Water pressure
- Slope of site
- Shade/sun on site
- Time of day for watering



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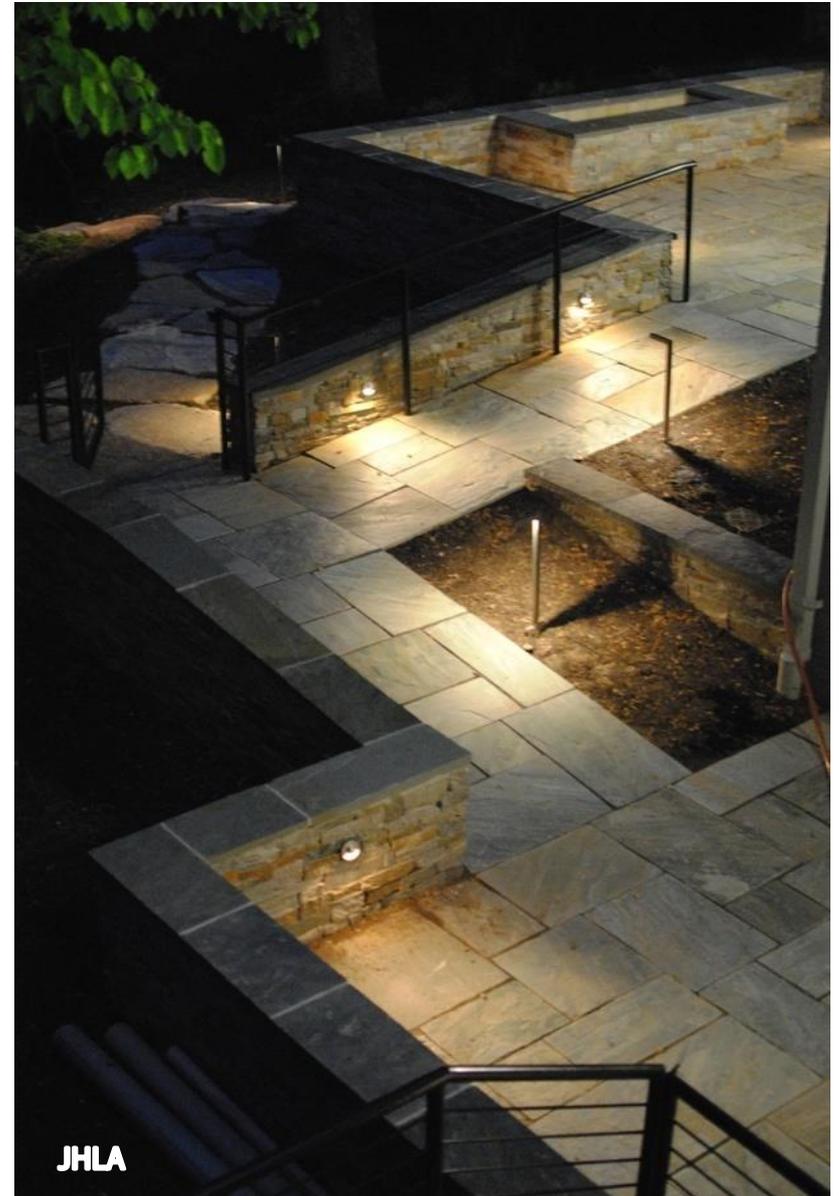


Keep It Green Nursery

ECO-FRIENDLY STRATEGIES

LED lighting

- Low voltage
- Easy control with wireless remote
- Longer bulb life



ECO-FRIENDLY STRATEGIES: LIGHTING



ECO-FRIENDLY STRATEGIES

Wireless lighting control

- Located inside house
- No need for sight line between fixtures and controller



LIGHTING

Alternative lighting options

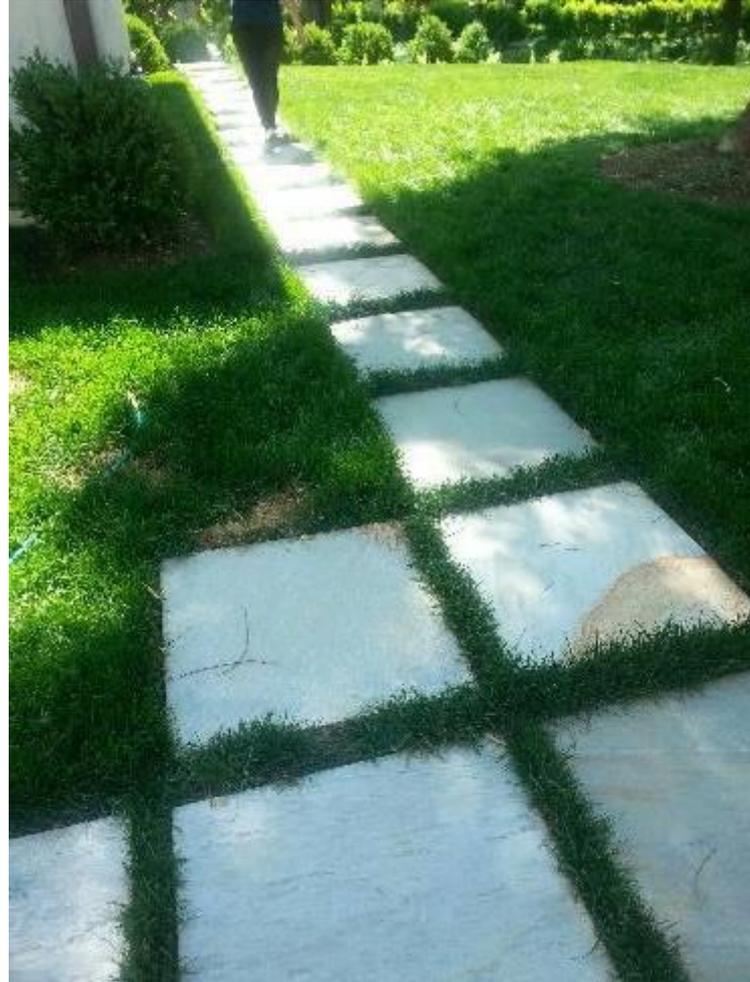
- Commercial-grade string lights
- Flameless candles / votives
- Grill light
- Architectural sconces
- Safety / motion lights
(hardwired)

Lighting Considerations:

- Transformer location
- Conduit for future installations
- Diminutive light to reduce glare

ECO-FRIENDLY STRATEGIES

Permeable paving



ECO-FRIENDLY STRATEGIES

Carpentry

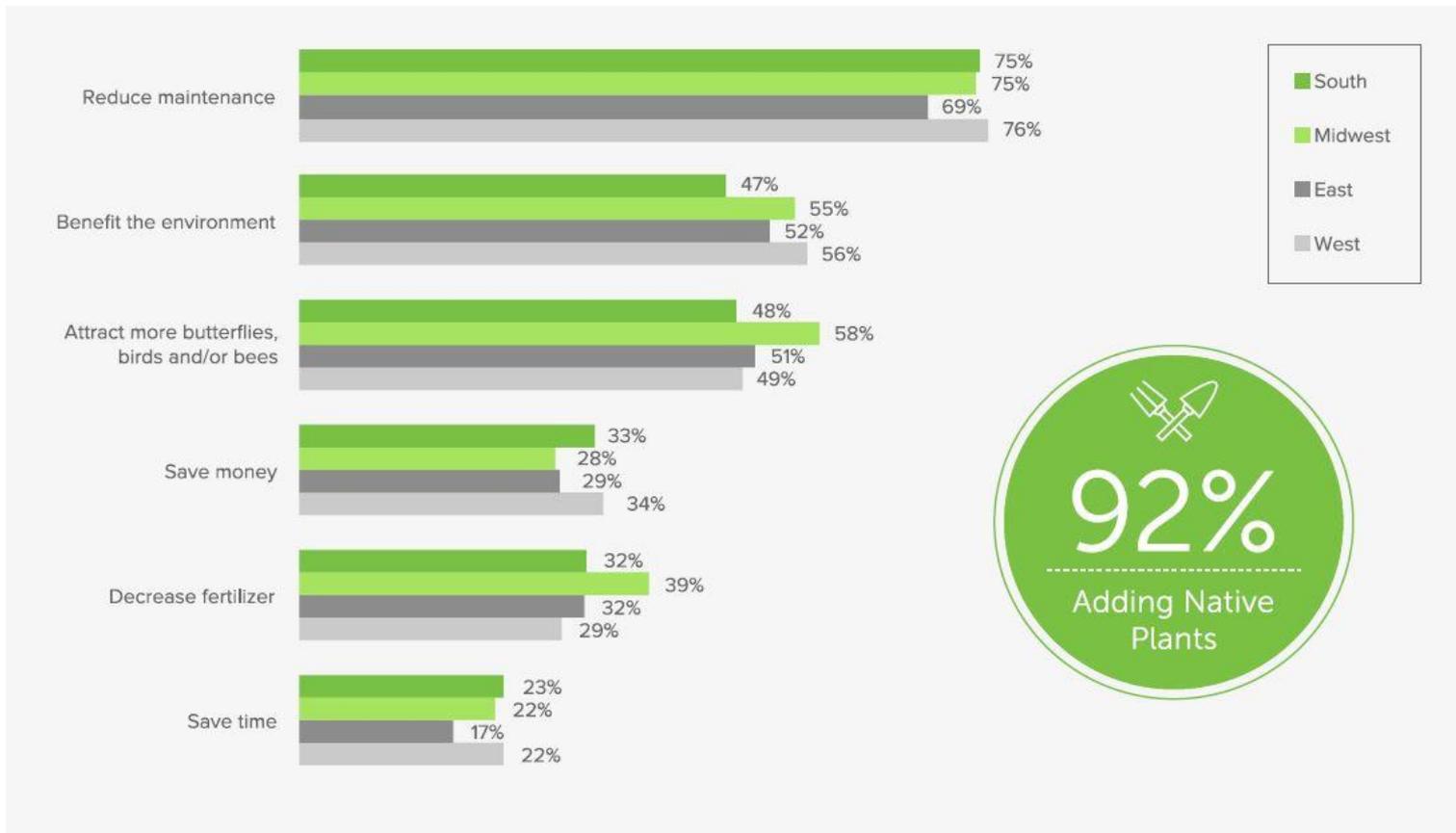
- All lumber should be FSC-certified.
- Composite products (TREX)
- Exotic hardwoods: ipe, sapele, mahogany
- Lumber which does not require chemical stains, sealants or paints
- Forest Stewardship Council prohibits illegally harvested wood.
- Wood from natural forests that were converted from non-forest uses
- Wood from genetically modified trees.

ECO-FRIENDLY STRATEGIES

Going Native with Plant Choice



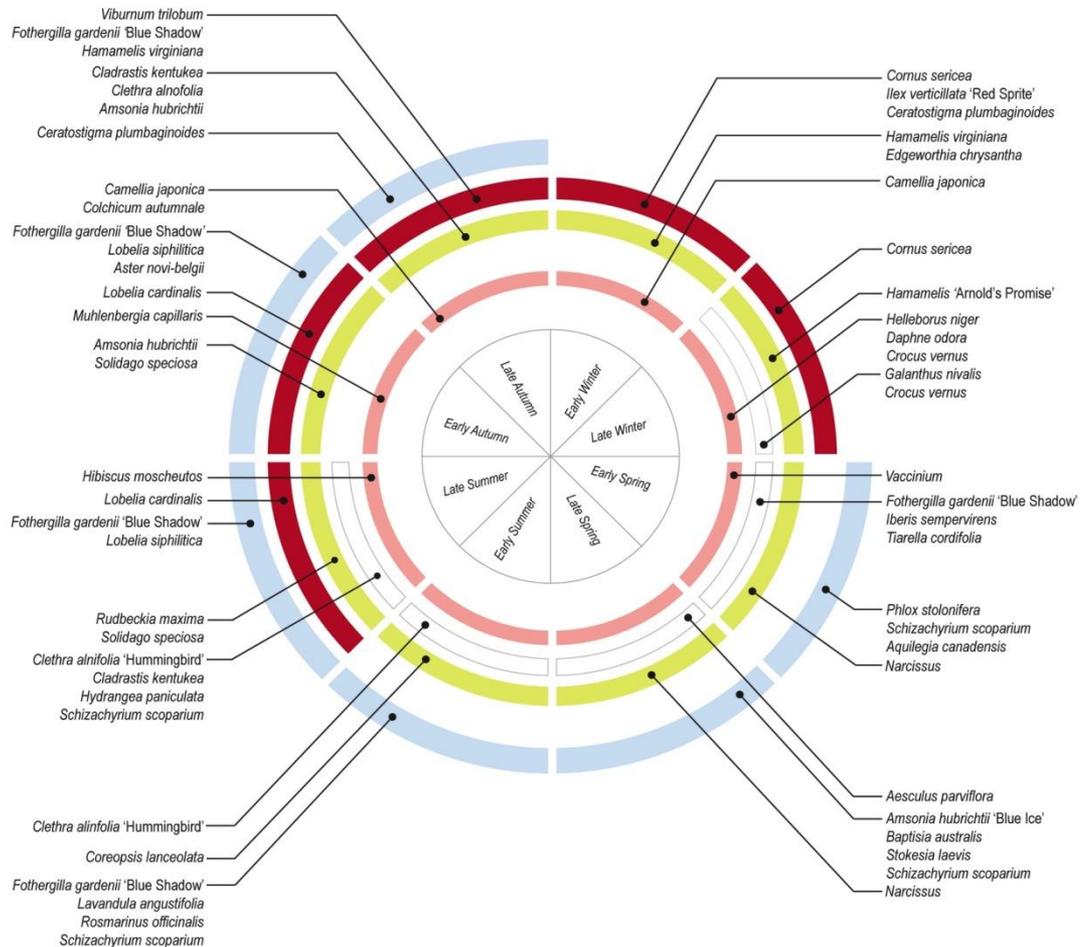
Of those adding plants to their yard, 92% are choosing plants that are native to their region. People are largely choosing native plants for practical reasons like reducing maintenance, helping the environment, as well as attracting more butterflies, birds or bees.



ECO-FRIENDLY STRATEGIES

How native is native?

- North America
- Eastern U.S.
- Mid-Atlantic
- Coastal / Mid-Atlantic



ECO-FRIENDLY STRATEGIES

Alternatives to turf

- Steppable groundcover
- “No mow” turf species
- Clover



Lawn Reform Coalition

CONCLUSION

CONTRIBUTORS

American Society of Landscape Architects www.asla.org

Houzz www.houzz.com

Studio H Landscape Architecture <http://www.studioh-inc.com>

James Hughes Landscaping <http://www.jameshugheslandscaping.com>

Terra Ferma Landscapes <http://www.tflandscapes.com>

William Renninger Associates <http://www.williamrenningerassociates.com>

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Fletcher Studio <http://www.fletcherstudio.com>

Broadbooks Associates <http://www.broadbooksapa.com>

Pedersen Associates <http://www.pedersenassociates.com>

Planted Earth Landscaping <http://plantedearthlandscaping.com>

Illuminated Concepts <http://oclights.com>

Keep it Green Nursery <http://www.plantnurserytampa.com>

Fire Pit Art <http://www.firepitart.com>

Fresco Frames <http://www.frescoframes.com.au>

Kalamazoo Outdoor Gourmet <http://kalamazoogourmet.com>

Fire Magic Grills <http://www.firemagicgrills.com>

Restoration Hardware <http://www.restorationhardware.com>

Atlantis Water Management <http://www.atlantiscorp.com.au>

Lawn Reform Coalition <http://lawnreform.org>

Mist Cooling <http://www.mistcooling.com>

Hometown Lawn <http://www.hometownlawn.com>

Solaira <http://www.solairaheaters.com>