

# TRENDS IN RESIDENTIAL DESIGN



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# 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)

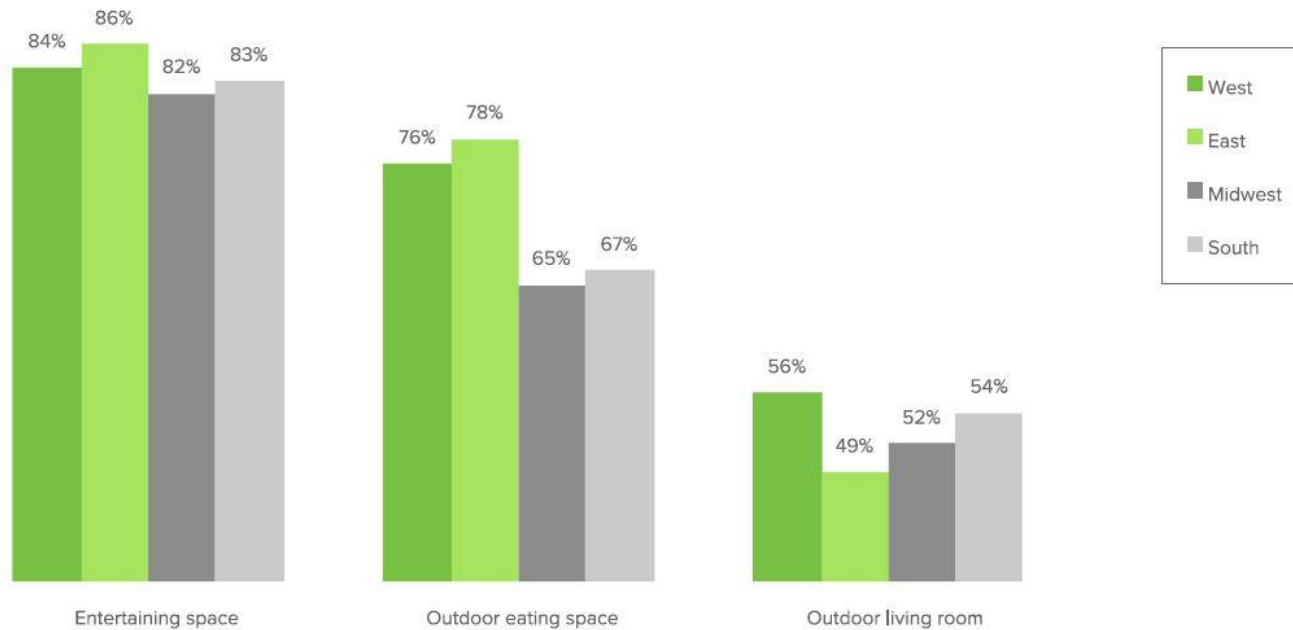
# HOZZ SPRING LANDSCAPING TRENDS STUDY 2014

## Outdoor Activity



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

### BACKYARD USES

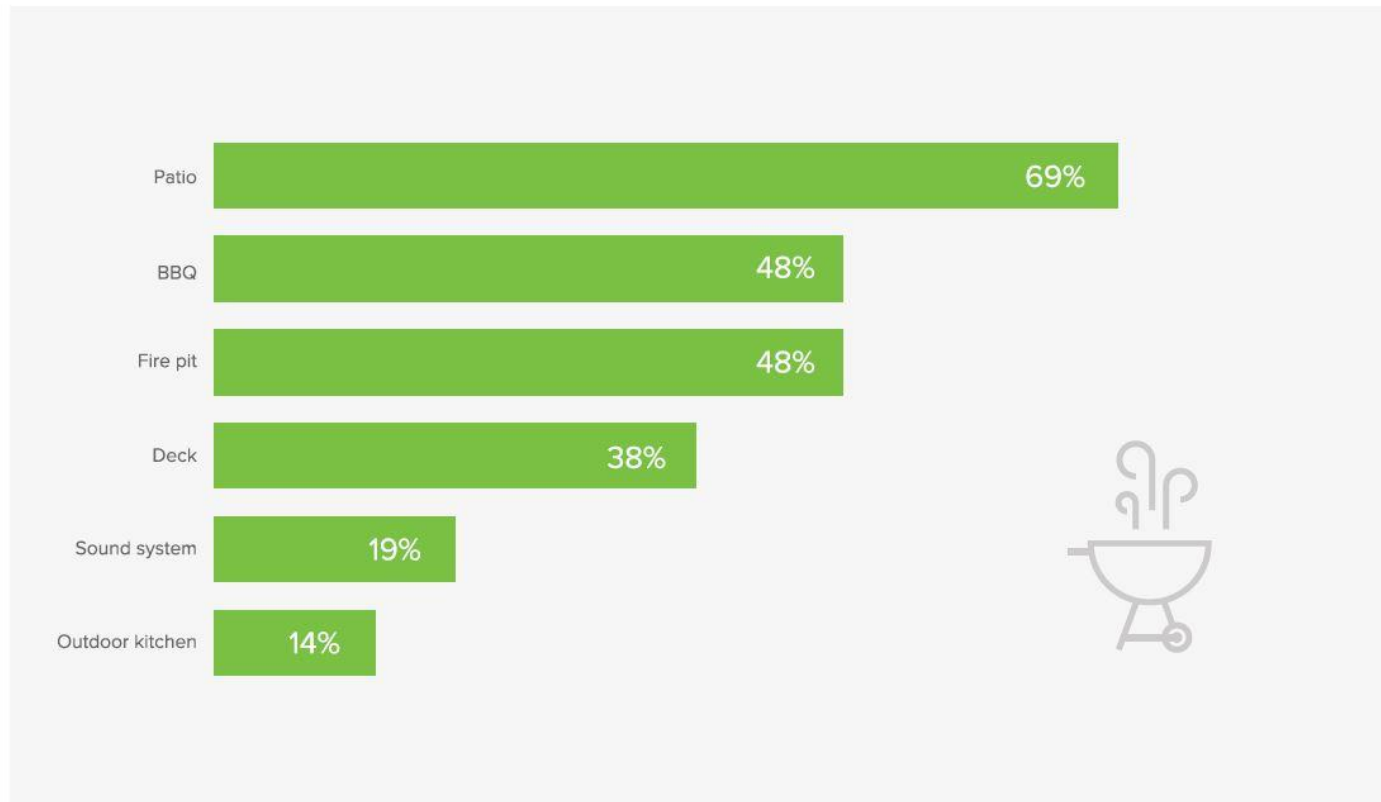


# HOZZ SPRING LANDSCAPING TRENDS STUDY 2014

## 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

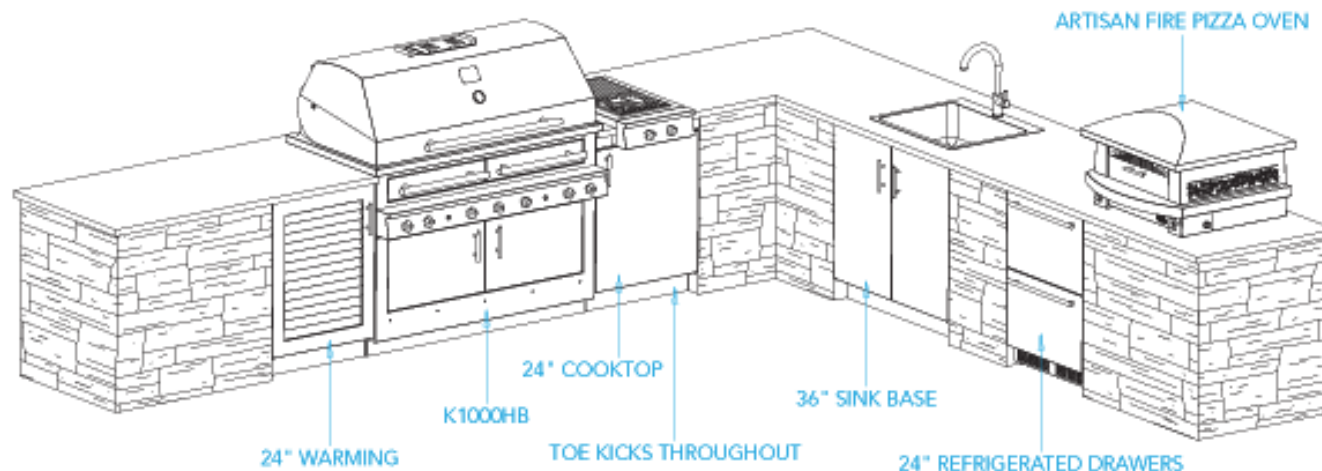
94.3% Grills

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



Studio H Landscape Architecture

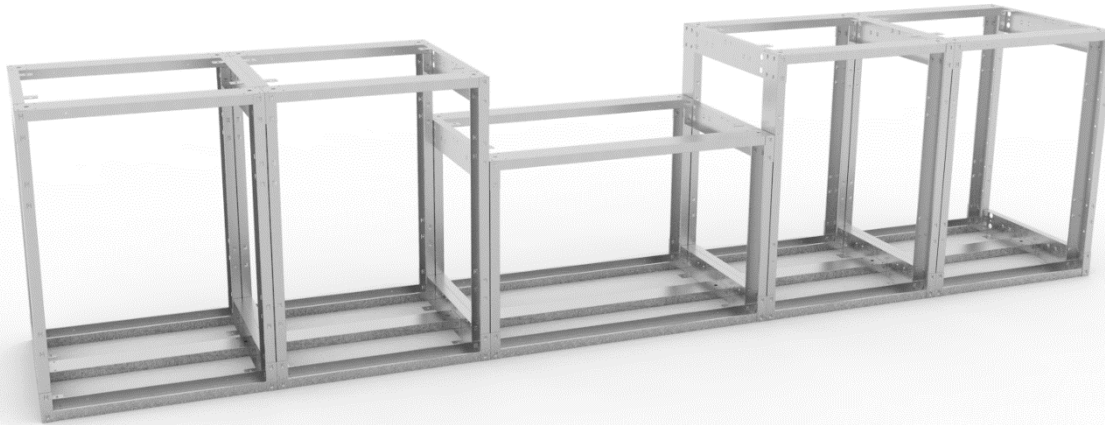
# OUTDOOR COOKING & DINING

Grill surround structure: *Masonry*



# OUTDOOR COOKING & DINING

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



Fresco Frames

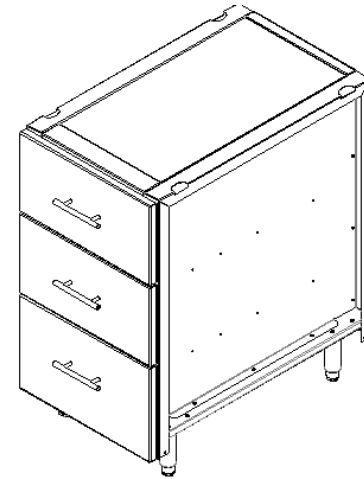
# OUTDOOR COOKING & DINING

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



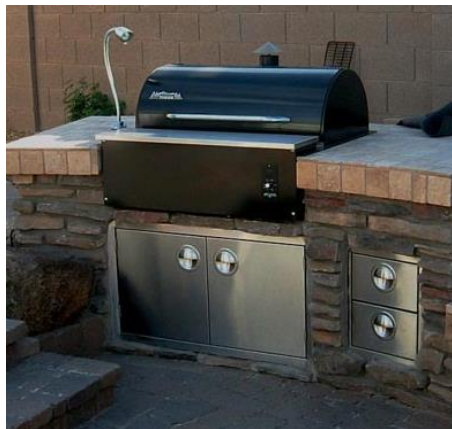
Big Green Egg



Wine cooler



Ice maker

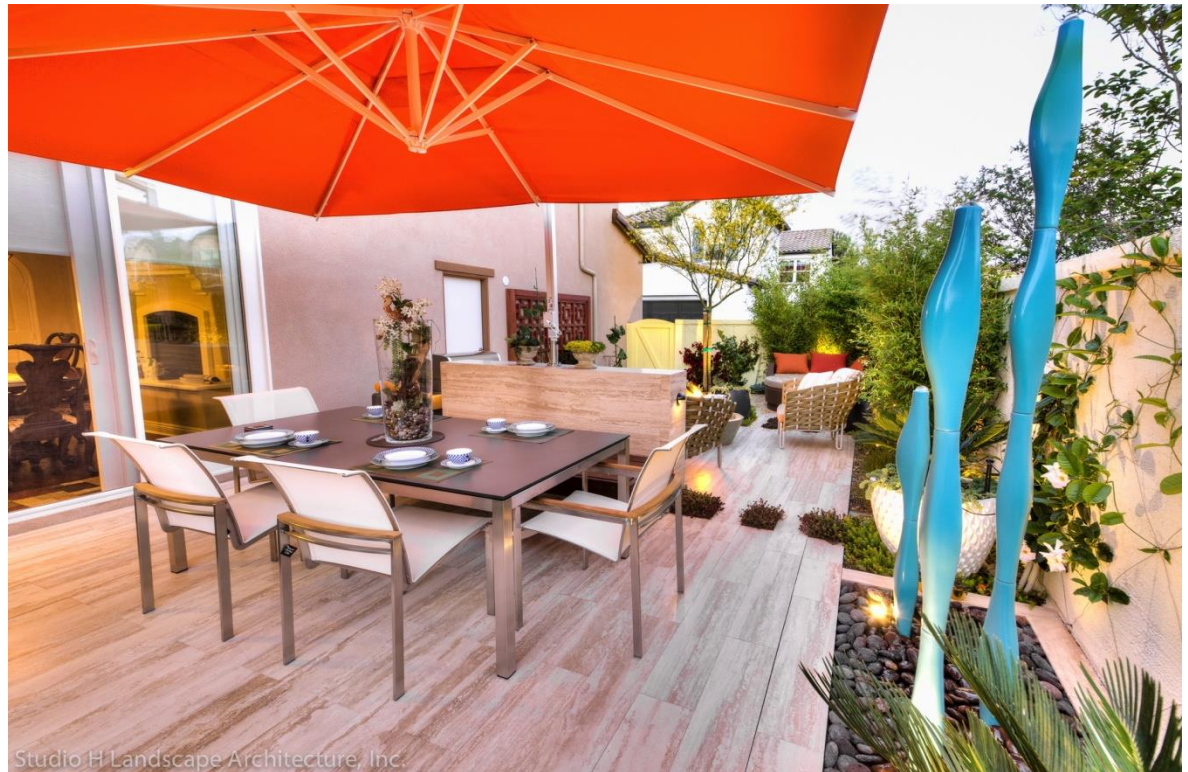


Smoker

# 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 PIT

- Prefabricated
- Custom



Fire Pit Art



William Renninger Associates

# GAS FIRE PITS

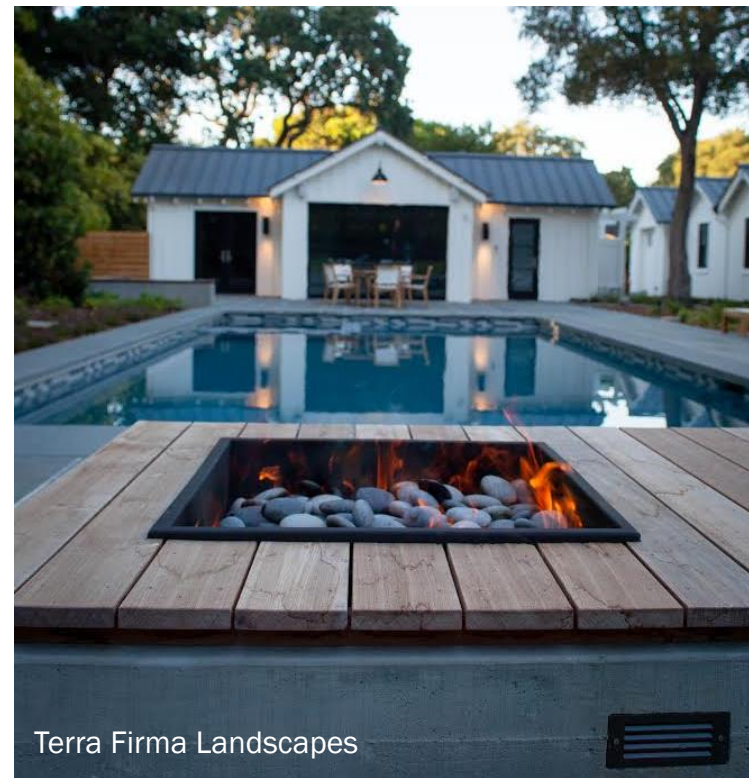
- Prefabricated
- Custom

## 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

A photograph of a garden featuring a stone water feature. The water feature is a rectangular stone basin with a decorative, arched stone structure behind it. The basin is filled with water and has a small, ornate stone sculpture on the back. The garden is lush with green grass, purple flowers, and various plants, including a large, spiky green plant on the left and a tall, thin plant with yellow flowers in the foreground. The background is filled with more greenery and a stone wall.

# BUBBLERS

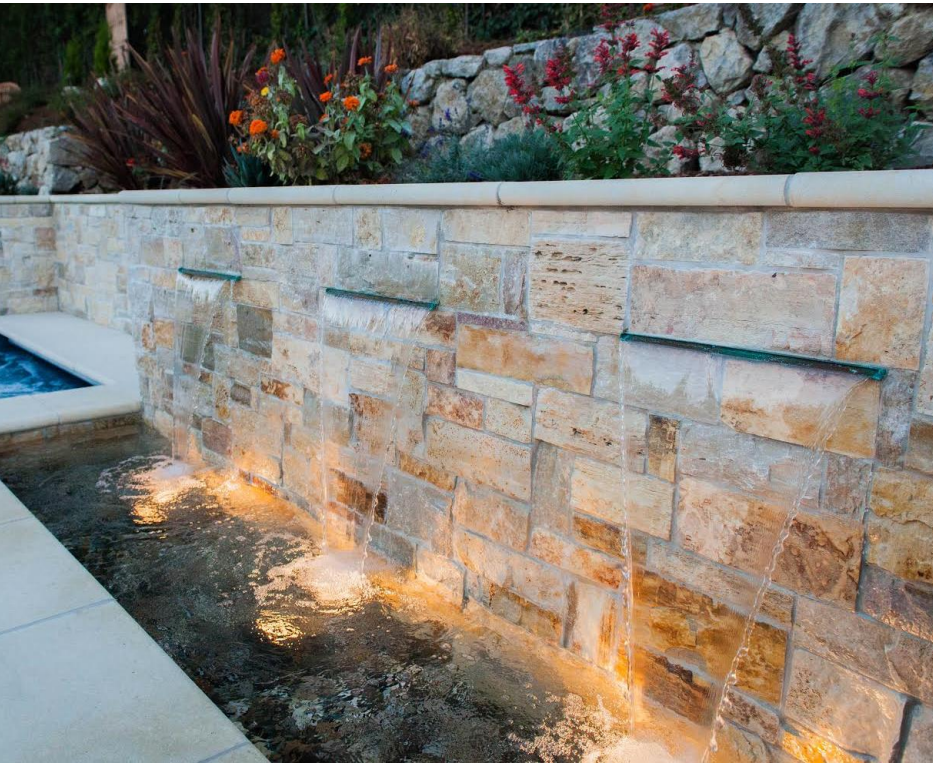


James Hughes Landscaping



Restoration Hardware

# FOUNTAINS / ARCHITECTURAL WATER FEATURES



Terra Firma Landscapes. Photo by Rachel Moises.

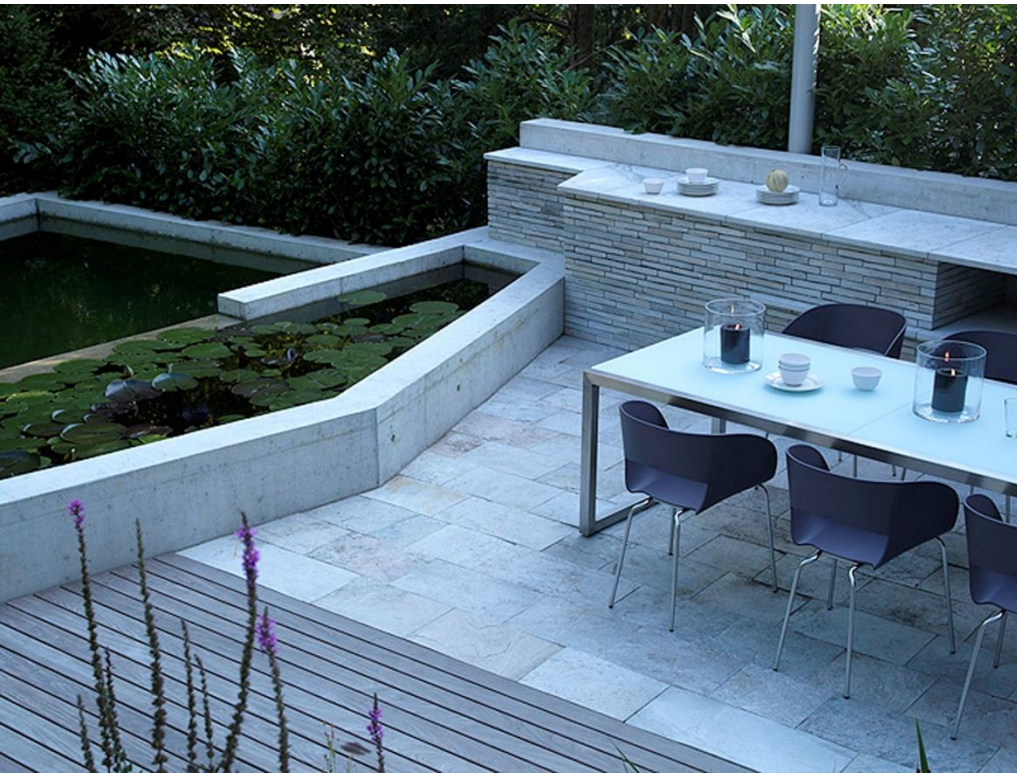


Studio H Landscape Architecture

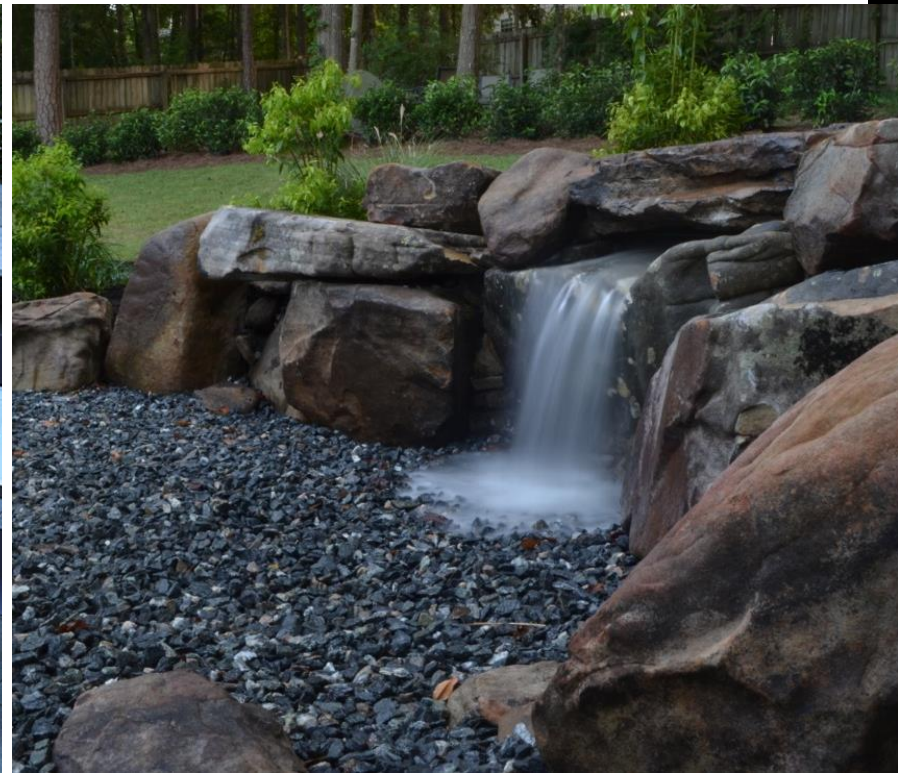
# NATURALIZED WATER FEATURES



# 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

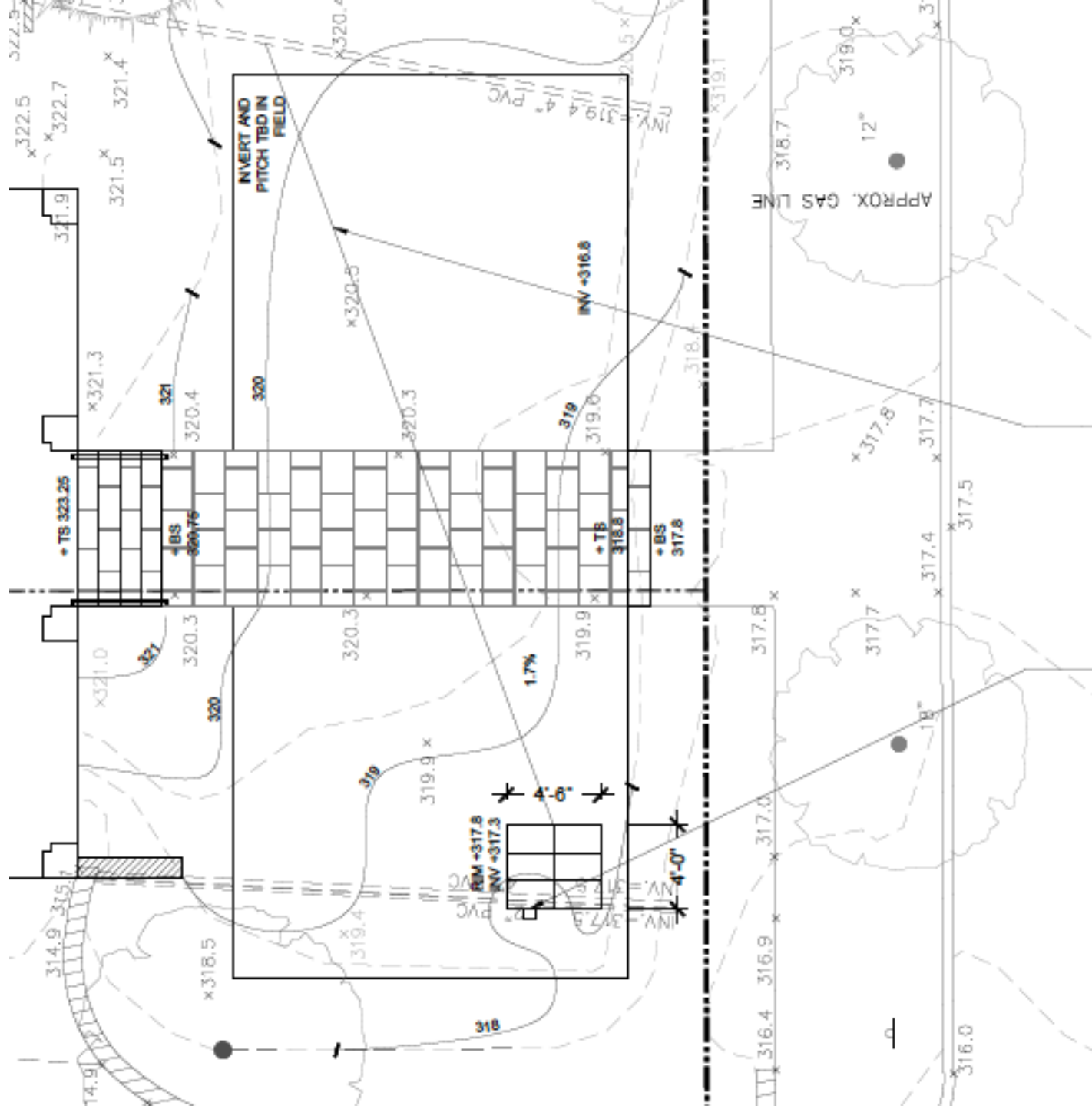
Terra Firma Landscapes. Photo by Maren Caruso

# STORMWATER MANAGEMENT



# STORMWATER CALCULATIONS

PROPOSED HARDSCAPE TYPES (CN NUMBER) AND SQUARE FOOTAGE:			3 MONTH STORMWATER CALCULATIONS:		10 YEAR STORMWATER CALCULATIONS:	
	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 = 136 CF		TOTAL STORAGE VOLUME REQUIRED = 712 CF	
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.



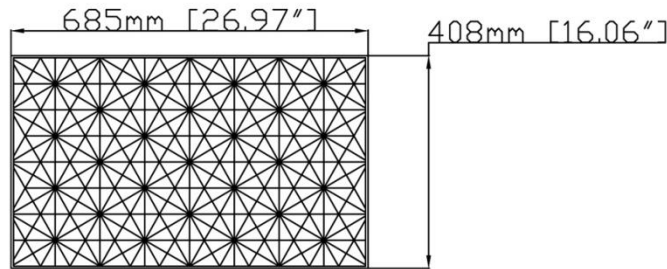
In the Watershed



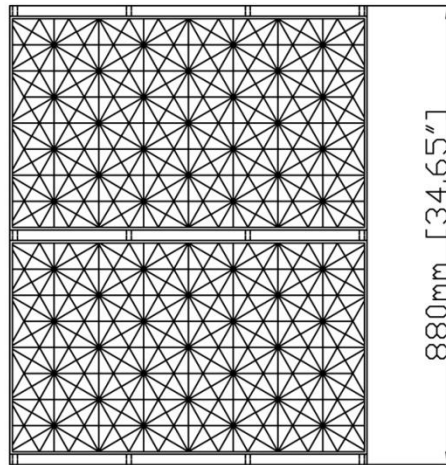
DIY Network

# STORMWATER MANAGEMENT

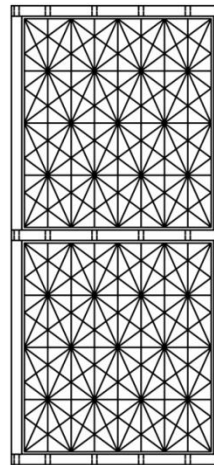
## Underground storage tanks



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 m²	3.011 ft²
Ultimate Compressive Strength	24 t / m²	34 PSI
Gross Volume	0.246 m³	8.69 ft³
Storage Capacity	233 L	61.56 gal

Distributed by:

**RainHarvest**  
System

www.RainHarvest.com  
770-889-2533

19 August 2009

# 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

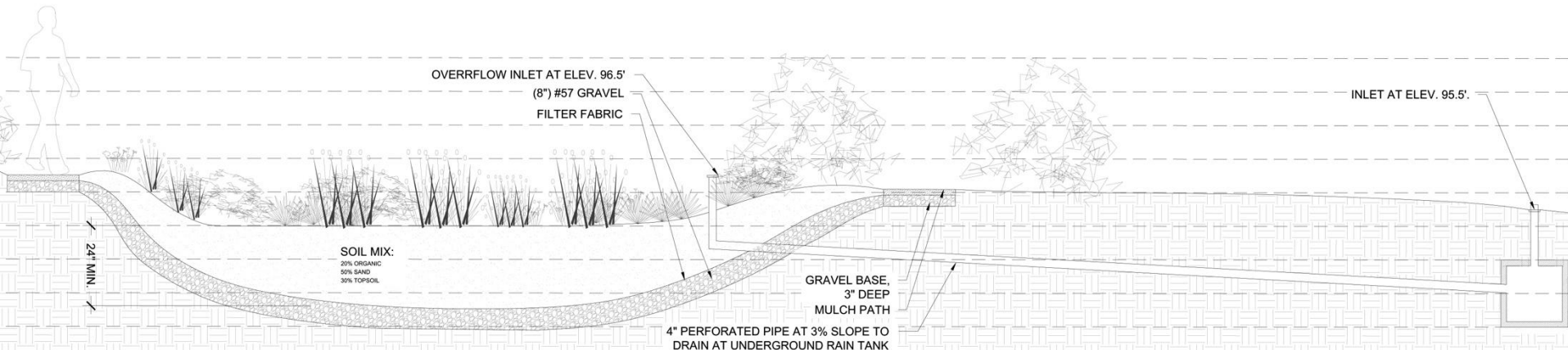
**Rain garden:** a planted depression or a hole that allows rainwater runoff from impervious surfaces to be absorbed in to local groundwater in order to improve water quality in nearby bodies of water.



JHLA



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 windows, situated in a field of tall grass and wildflowers. The building features a mix of stone and brickwork, with a prominent stone chimney on the right side. The foreground is filled with tall, dry grass and numerous 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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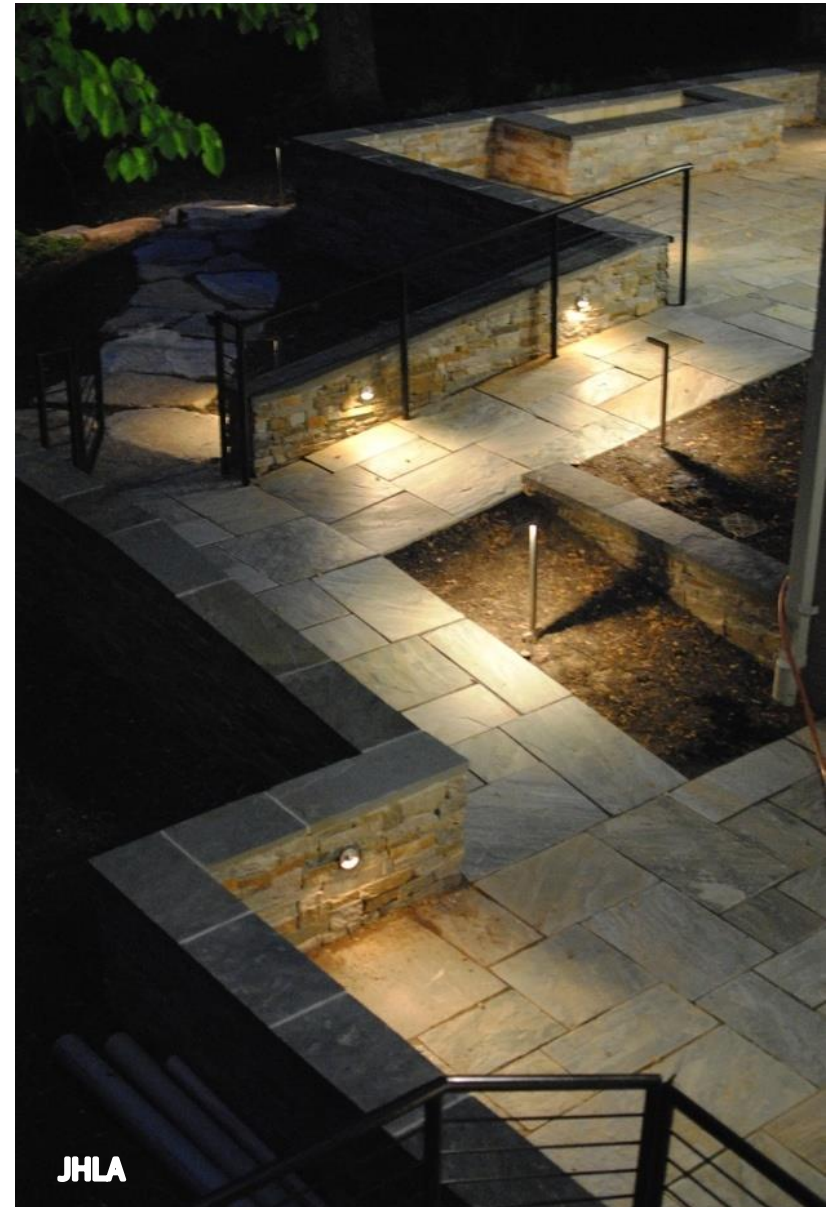


Keep It Green Nursery

# 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

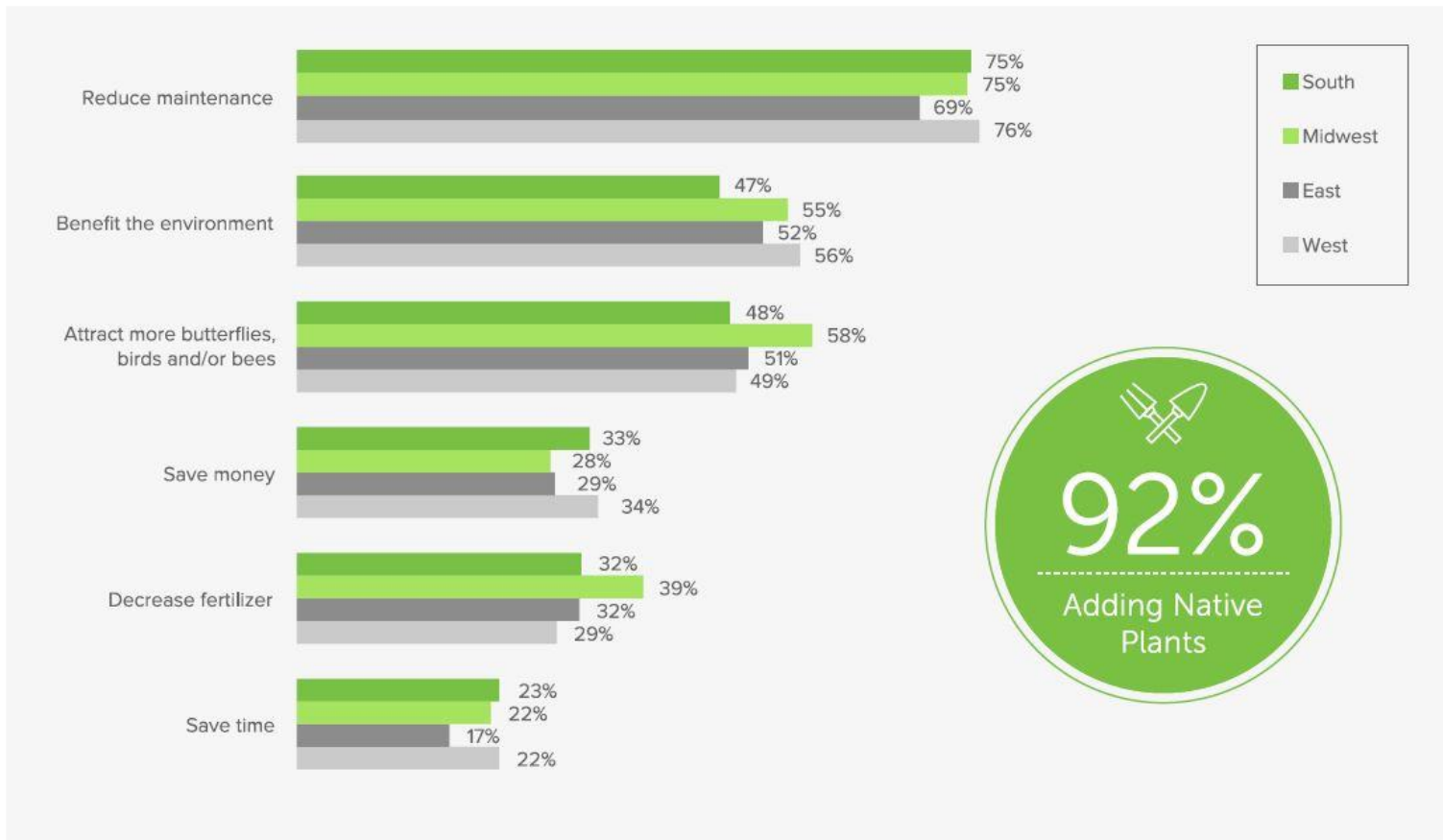
- All lumber should be FSC-certified.
- Composite products (TREX)
- Exotic hardwoods: ipe, sapele, mahogany
- Lumber which does not require chemical stains, sealants or paints
- Forest Stewardship Council prohibits illegally harvested wood.
- Wood from natural forests that were converted from non-forest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

# ECO-FRIENDLY STRATEGIES

## Going Native with Plant Choice



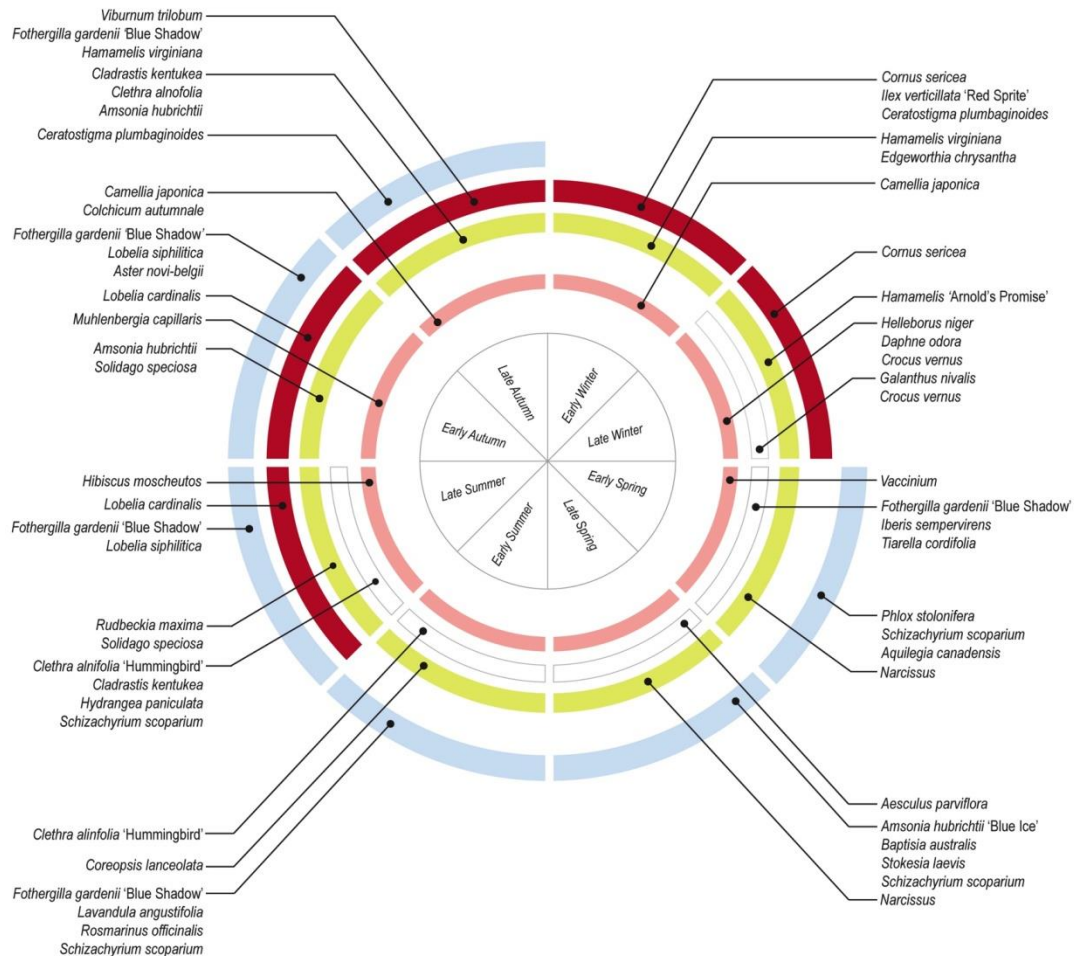
Of those adding plants to their yard, 92% are choosing plants that are native to their region. People are largely choosing native plants for practical reasons like reducing maintenance, helping the environment, as well as attracting more butterflies, birds or bees.



# 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](http://www.asla.org)

Houzz [www.houzz.com](http://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>

Lutsko Associates <http://lutskoassociates.com>

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>