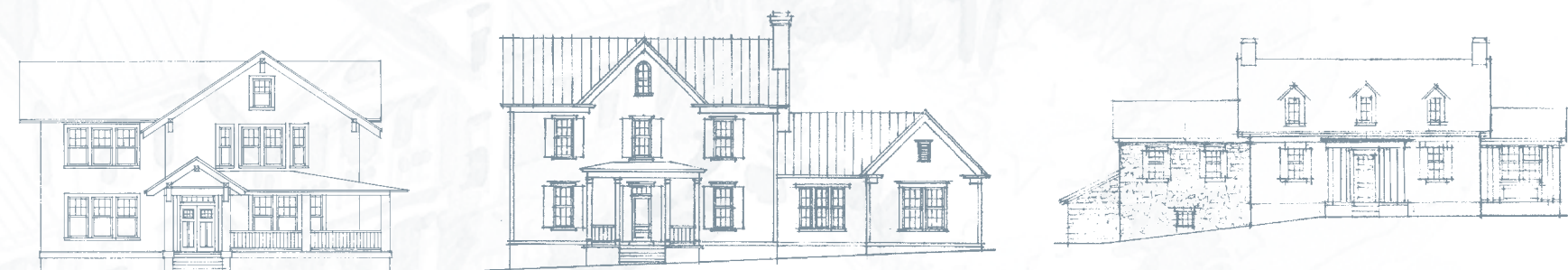


*Design Guidelines for a Residential Community*

# Homestead Preserve Pattern Book



NOVEMBER 2004

# HOMESTEAD PRESERVE

*H o t   S p r i n g s   a n d   W a r m   S p r i n g s ,   V i r g i n i a*

*Design Guidelines for a Residential Community*

*Prepared by*

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*Location map showing preserve land building designs for house sites*



*These sketches illustrate the character of different settings and the diversity of architecture intended for houses within the Preserve.*



*Preserve sites include beautiful woodland locations accessed by rural roads and private drives.*



*The house at Gosholt Road, the preserve's first owner in Warm Springs, forms distinct views toward Mountain and Little Mountain.*

### Overview

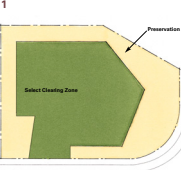
HOMESTEAD PRESERVE represents more than 11,500 acres of pristine mountain and valley landscape between Hot Springs and Warm Springs in Bath County, Virginia. This remarkable landscape is protected and preserved through ownership and management by The Nature Conservancy of 9,250 acres, and through a 935-acre conservation easement donated by Warm Springs Investment Company, LLC to Virginia Outdoor Foundation. Over the next several years, a select group of individuals and families will settle the Homestead Preserve in a continuation of traditional patterns that respects the inherited landscape, cultural legacy and built environment.

The Homestead Preserve effort has identified a portfolio of carefully selected sites which can be settled to complete the ownership and ongoing management of the Preserve. These sites lie within seven primary land parcels stretching eight to nine miles along the valley nestled between Warm Springs Mountain and Little Mountain.


## Homestead Preserve

INTRODUCTION

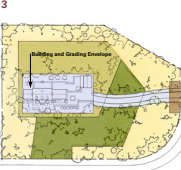
A 1



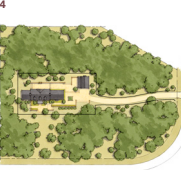
*Preservation and Selective Clearing Zones*



*Potential Development Zone and Driveway Threshold*



*Building and Grading Envelope*



*Final Site Development Plan*

The following conventions identify site specific development restrictions. (1) **A Preservation Zone** specifies land to be preserved and protected within each site. This zone ensures the safeguarding of the most sensitive areas, including steep slopes, mature tree canopy and drainage patterns. Preservation Zones are configured to buffer views between houses in woodland and meadow lots and reinforce association of community on hamlet sites. No clearing, disturbance or intervention may take place within these areas with the exception of locating the driveway and routing utilities.

The **Selective Clearing Zone** encompasses all land not occupied by the encircling Preservation Zone. This zone establishes a second tier of preservation for the lot at the same time making provisions for building and amenities.

In general all vegetation and topography in this zone should be preserved with the exception of the Building & Grading Envelope and the establishment of views and utility routes. Selective clearing of approved areas within this zone may facilitate staging and storage during construction operations. Additional clearing within this zone is limited to the removal of dead or unsightly woody material, or vegetation less than 5 inches in caliper. See page B-13 of this *Homestead Preserve Pattern Book* for a detailed description of approved clearing types.

(2) **A Potential Development Zone (PDZ)** has been identified for each site. The PDZ defines the absolute boundary for any potential disturbance on the site, other than selective clearing. The intent of the PDZ is to assure that the most sensitive areas of the site are preserved while allowing flexibility in determining the location of the house.

A 30 foot linear **Driveway Threshold** has been located along the property line adjacent to the collector road. The Driveway Threshold identifies the most appropriate location for the placement of the driveway's connection to the road. The driveway must meet the road at a location within this threshold but may advance toward the Building & Grading Envelope in an alignment as desired by the property owner.

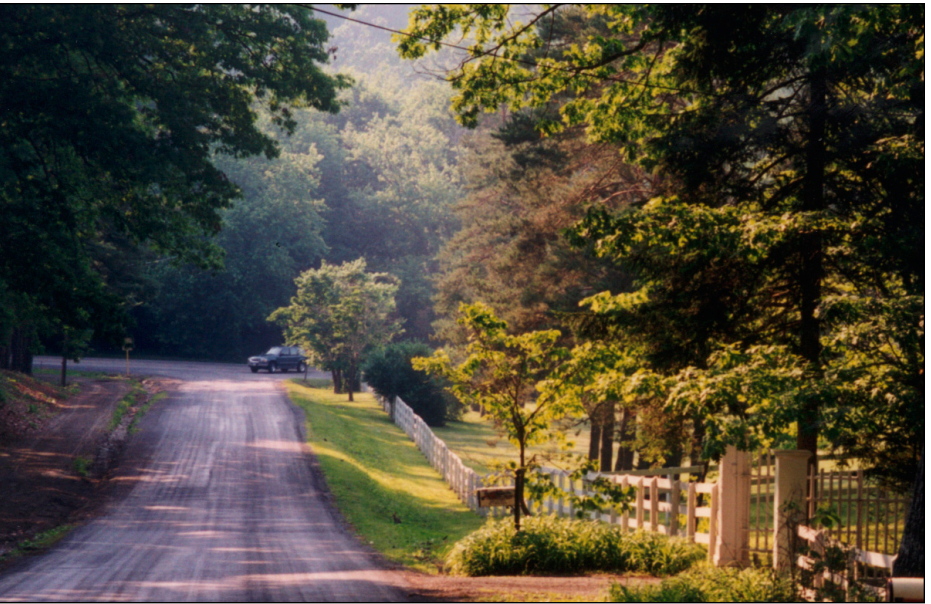
(3) **A Building and Grading Envelope (BGE)** has been established. This area defines the preferred limits of disturbance affected by the placement of the house. All grading attributed to siting the house should be confined within the BGE. All lawn and garden spaces should also be confined to this zone. The Building and Grading Envelope may be located anywhere within the Potential Development Zone and may be disaggregated into two or more separate envelopes. It is assigned as a gross square footage for each site and its size is determined by the unique environmental conditions of the specific site. BGE sizes for specific sites are found in the *Homestead Preserve Lot Portfolio*.

Given the steep terrain of many sites in the Preserve, it is advantageous to orient the massing of the house and grounds parallel to the contours of the slope. Building and Grading Envelopes that exceed eight-to-five linear feet in depth may require numerous stacked retaining walls on the uphill or downhill side of the house.

## Site Planning

RURAL SETTLEMENT PATTERNS

B 12





*Early twentieth century Classical house*



**Essential Elements of the Highlands Classical**

- Simple volumes with one-story side wings and porches added to make more complex shapes
- Symmetrical composition of doors and windows
- Simplified versions of Classical details and columns – Tuscan, Doric, and Ionic orders – commonly used in the porch element or door surround
- Multi-pane windows that are wide in proportion usually with 6-over-6 or 9-over-9 pane patterns

### History & Character


THE HIGHLANDS CLASSICAL HOUSE is based on Georgian, Federal, and Classical Revival houses from the late 18th through mid 19th centuries. The western Virginia region displays significant examples of houses from this period. Few of these houses were designed by architects but rather were commonly derived from illustrated volumes of the work of English architects such as Inigo Jones, James Gibbs and the Adam brothers. Many houses from this period were constructed using Pattern Books such as Asher Benjamin's *American Builder's Companion* from 1806. These houses are typically developed as simple, additive massing types with a dominant center pavilion or Main Body, and additive side wings and pavilions. Palladian composition became a principle organizing and proportioning reference for many houses from this period. As such, many of the houses found in the Allegheny Highland region are vernacular interpretations with simple detailing and massing for each wing. The main house may be brick, the wing out of stone, and the telescoping outer wing of wood clapboard. More rural roof treatment such as standing seam roofing enhance the rural quality of the architecture.

Highlands Classical houses will be designed using these compositional elements and massing principles. On steeply sloping sites found within the Homestead Preserve, these houses will use raised terraces or terraces cut into the slope to create formal entry relationships to the road.


## Highlands Classical

ARCHITECTURAL PATTERNS


C 1




*Land adjacent to a spring house*



*Meadow in the valley area*



*Cross section of vegetation dividing on Homestead Preserve*

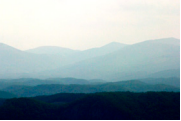


*Illustration from A.J. Downing*

### General Principles

THE VEGETATION OF HOMESTEAD PRESERVE is as diverse as the vegetation of the Allegheny area of Virginia. The dominant forest type of the Warm Springs Valley is deciduous hardwood – oaks, hickories and maples – with pockets of hemlock. Oaks and hickories favor comparatively dry, well-drained habitats. These trees appear among pines on the Piedmont uplands and coastal plains from Connecticut to Texas.

Homestead Preserve contains several different forest ecosystems: valley, upland forest and ridge ecosystems. Within these natural communities, different climatic zones, plants, and animal species exist. Respecting these ecosystems will be vital to successfully preserving, enhancing and replacing the vegetation that currently exists within the site.



*View of the Allegheny Mountains, just north of Hot Springs*

## The Landscape of Virginia Highlands

LANDSCAPE PATTERNS

D 1

THE HOMESTEAD PRESERVE PATTERN BOOK is designed as a unique resource for owners, architects, landscape architects and builders. The pattern book is intended to give everyone a sense of the elements important to the design of sites and houses in Homestead Preserve. To do this, the book is organized into four primary sections. *The Introduction* provides an overview of the context – the Allegheny Highlands, Bath County, The Homestead and the inherited character to which new houses being built in the Preserve should respond. This Introduction also provides a brief description of the overall plan for the Preserve. The second section, *Rural Settlement Patterns*, describes the primary components of houses designed for the preserve, their placement on house sites as well as site design criteria for the three types within Homestead Preserve: Woodland Preserve, Meadow Preserve and Hamlet sites. Settlement patterns for the key addresses within the Hot Springs and Warm Springs segments of the site are also presented. The *Architectural Patterns* section defines the primary architectural styles that will guide the exterior design of houses and the *Landscape Patterns* section will illustrates appropriate planting and landscape elements related to specific site types.

# Purpose of the Pattern Book





Design Elements for Woodland, Meadow or Hamlet sites respond to the appropriate qualities of the region. Terracing or stepping sites adjacent to the house will be important to the character of the house and the site.



Architectural design will follow one of four traditional styles identified in the Architectural Patterns section: Highland Classical, Highlands Farmhouse, English Romantic or Highland Arts & Crafts. Houses should be linear in form and should respond to the site location – either a woodland setting or a meadow exposure.

THE GUIDELINES AND illustrative examples presented in this pattern book are intended to provide the foundation for ensuring the character and quality of buildings and landscapes within Homestead Preserve. Each new investment in the Preserve is seen as an enhancement to the inherited qualities of the regional character. Traditional architectural vocabularies that communicate the culture and history of Bath County, as well as trees, plants and flowers that were cultivated and introduced to the settlements; rural lanes and grazing pastures are all patterns that reinforce the sense of this place which is unlike any other.

The patterns and elements described here are key to building and designing new houses and sites in ways that are consistent with the traditions we find here. Houses are designed in response to the site and each site is distinct and different. We have found the following principles helpful in considering design options and approaches.

### Site Design

In the mountains, yards and gardens can be treated as stepped terraces to create usable area around the house.



Five primary determinants for siting a house include views, sun exposure slope conditions, vegetation and access.

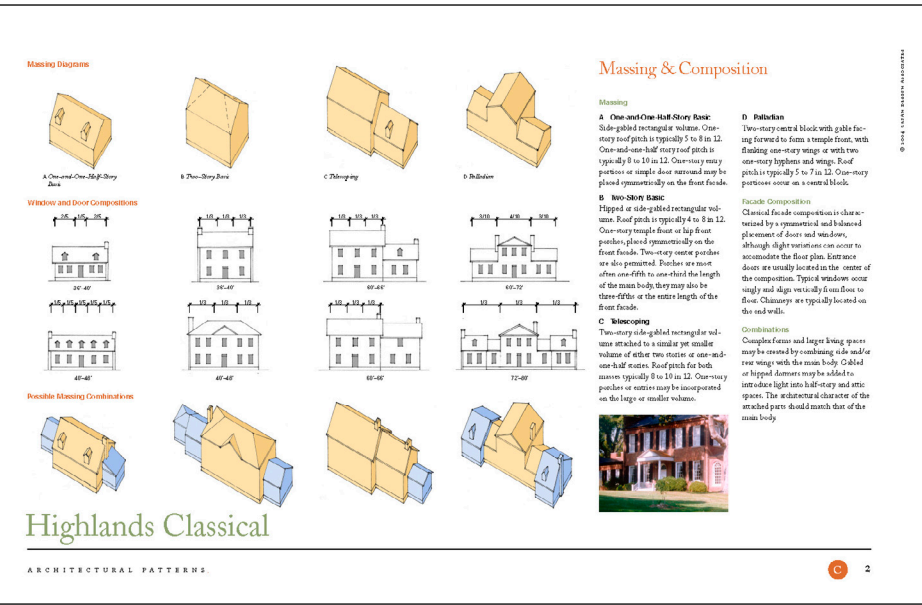
Landscaping should respond to the site type – woodland environments and meadow environments. Meadows follow the traditional farm patterns while woodland sites have historically used native and traditional plants that thrive in the understory habitats.

### Architecture

Traditional houses in this region are designed in response to their sites. In sloped terrain such as the Warm Springs valley, houses are typically one room deep and designed as linear plans to run parallel with the contours of the land.

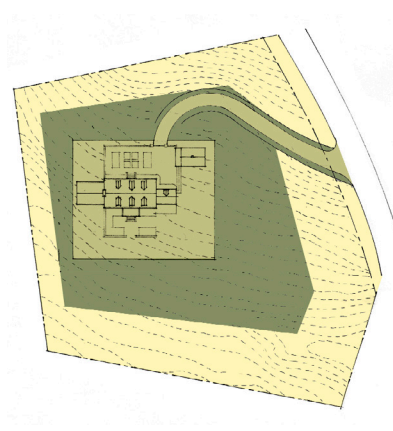
Houses on meadow sites should typically be thought of as farmhouses. Houses on woodland sites are earthbound and should primarily use materials and colors to minimize visual intrusion within the woodland environment.

Houses should be designed following one of the four traditional architectural vocabularies defined in the pattern book. Additional research by the creators of Homestead Preserve may allow for additional architectural vocabularies to be resurrected and introduced in the future.

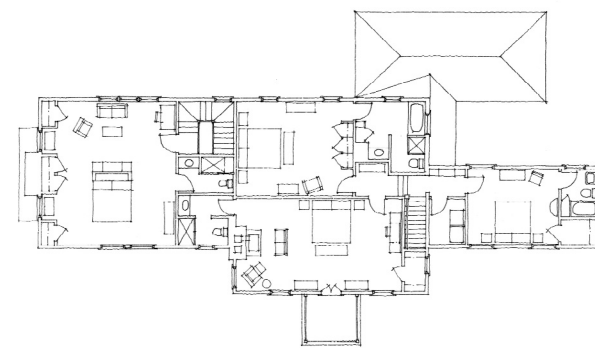


# Key Design Principles





*The Homestead Preserve Lot Portfolio provides detailed information on each house site including: permitted development areas; access driveway locations; view orientation; slopes, vegetation and adjacent sites.*



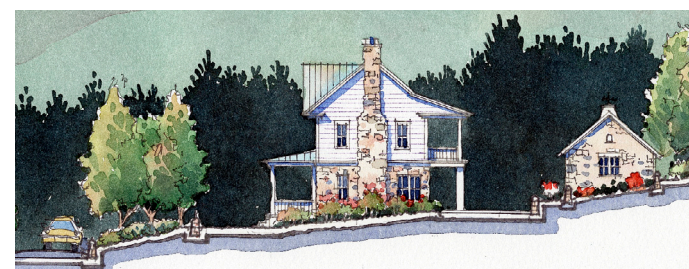
*The architectural review staff will work with owners and designers to develop their designs in accordance with the Pattern Book and the site requirements.*

## Designing a House

THIS PATTERN BOOK IS A TOOL provided to help owners design their house. While the Pattern Book provides an illustrative guide for house and landscape design elements, additional resources are available to assist owners throughout the process. Homestead Preserve has a design review and approval process centered on collaborative and helpful interaction with the Preserve staff, site planners and architects. The Pattern Book is a reference guidem, not an absolute criteria. Each site is individual and may require special study and approach. In addition to the Pattern Book, the Preserve has developed a detailed inventory of site characteristics and conditions for each individual house site to serve as a resource for owners and their designers.

The design review and coordination process for approving house designs incorporates several steps. The first step is a pre-design meeting with the Town Architect to review the site, looking at development areas, view, slopes and vegetation, access options and adjacent sites. This helps to understand the context before design work begins. Concept site plans and house plans are then developed by the owner and reviewed by the Town Architect to guide more detailed planning. As the process moves forward, working sessions are scheduled incrementally at Schematic Design and Construction Documents to ensure good communication and to respond to questions before final plans are submitted. Preserve staff will also review progress in the construction to ensure the implementation is consistent with the approved plans.

The Preserve has created a data base with preferred architects, landscape architects and builders who are available and qualified to provide services to owners. Additionally, we have developed an inventory of pre-approved house designs that can be adapted for various site conditions and the Preserve Building Company can provide construction of houses for owners.



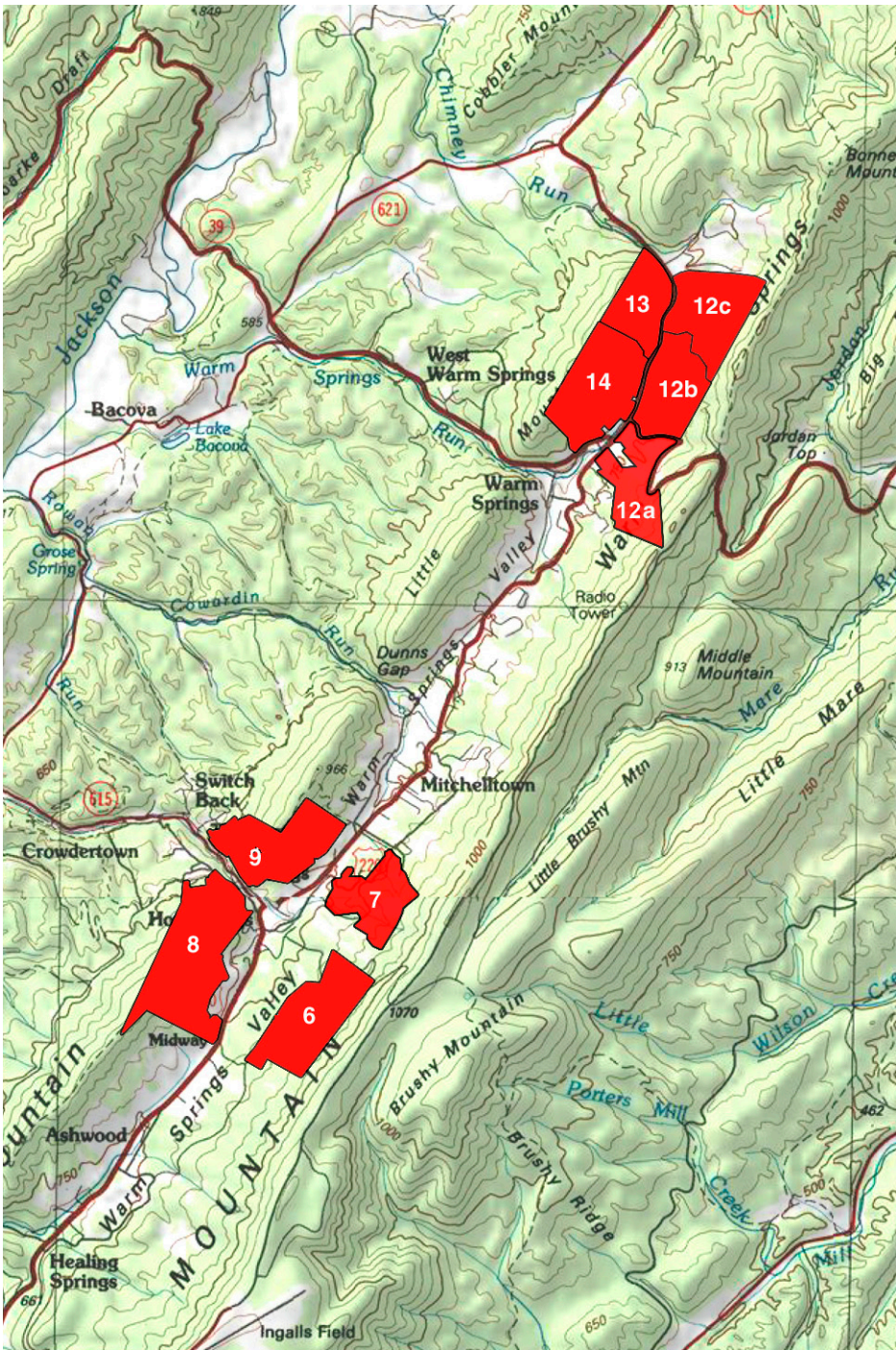
## The Design Process

SECTION

A

# Introduction





Location map showing preserve land holdings designated for house sites



These sketches illustrate the character of different settings and the diversity of architecture intended for houses within the Preserve.



Preserve sites include beautiful woodland locations accessed by rural roads and private drives.



The barns at Garth Newel, the performing arts center in Warm Springs, frame distinct views towards Dunn's Gap.

## Overview

HOMESTEAD PRESERVE represents more than 11,500 acres of pristine mountain and valley landscape between Hot Springs and Warm Springs in Bath County, Virginia. This remarkable landscape is protected and preserved through ownership and management by The Nature Conservancy of 9,250 acres, and through a 935-acre conservation easement donated by Warm Springs Investment Company, LLC to Virginia Outdoor Foundation. Over the next several years, a select group of individuals and families will settle the Homestead Preserve in a continuation of traditional patterns that respects the inherited landscape, cultural legacy and built environment.

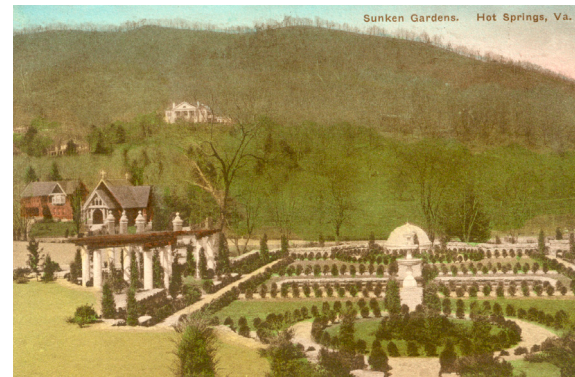
The Homestead Preserve effort has identified a portfolio of carefully selected sites which can be settled to complete the ownership and ongoing management of the Preserve. These sites lie within seven primary land parcels stretching eight to nine miles along the valley nestled between Warm Springs Mountain and Little Mountain.

# Homestead Preserve





*The Homestead porch*



*Historic postcards with images of the early environs*



*The Cascades golf course*



*Historic photo of the spa swimming pool*



## The Homestead Resort

THE HOMESTEAD, one of America's great resorts, is a national treasure and Virginia's favored place for recreation, rejuvenation and relaxation since 1776. The unparalleled legacy of distinguished guests and patrons includes Thomas Jefferson, George Washington, General Robert E. Lee, many American Presidents, international diplomats and monarchs. Today, The Homestead continues the tradition of outstanding service, exceptional cuisine, championship golf, outdoor recreation and the spa that over the past two centuries has been the hallmark of the resort.

Residents of the Homestead Preserve will enjoy unequalled access to the amenities and great traditions of The Homestead through an exclusive right to purchase a membership for the Homestead Golf and Tennis Club. Fine dining, golf, spa facilities, skiing and outdoor recreation programs offer families and individuals a marvelous complement to the scenic beauty and historic legacy of the region.

# The Homestead Legacy





*This etching of the original Warm Springs settlement by Edward Beyer shows the original spa hotel and hamlet.*



*1848 Landscape painting of the Jackson River by Russell Smith*



*Looking north along the Jackson River towards Meadow Lane Farm and Hidden Valley*



## History & Character

THE HISTORIC VALLEY PIKE brought travelers into the heart of the Warm Springs Valley to enjoy the soothing mineral baths and the mild climate of the summer months. This narrow valley is marked by a series of spectacular gaps that cross the spine of both the historic pike and the current route: Warm Springs Gap, Dunns Gap, Hot Springs Gap, and Cascades Gorge Gap. This rhythm of crossings became landmarks for the settlements along the valley road and provided a sense of connection over the mountains from the Jackson River westward. The original settlement that grew up around the late 1700s and early 1800s became the primary destination in the region for visitors and patrons of the mineral baths. Nestled in the valley, the hamlet was a backdrop for the spectacular mountains and distant views. Today, the Warm Springs hamlet is tucked into a narrow hollow with the historic Grist Mill at one end and the county courthouse at the other. The setting and the collection of houses and buildings creates a quintessential Bath County settlement. The surrounding mountains are home to many farms and homesteads tucked into the rolling hills.



*Historic Jefferson Pools in Warm Springs still provides guests with the restorative experience of “taking the waters,” as Jefferson did during his trips to Bath County.*

# The Warm Springs Valley



## Highland Houses

ONCE THE RAILROAD CONNECTED the Warm Springs Valley to the rest of the East Coast population centers, the ability to travel to the resorts created opportunities for a limited number of people to construct houses and set up more permanent residence. This trend followed the traditional Highland farm settlements and created an exotic mix of architectural styles and house types unlike anywhere else in this region of Virginia. There is a blend of vernacular, clapboard farmhouses, refined Virginia classical houses and imported Arts & Crafts, NeoClassical, Colonial Revival and European Romantic house styles. This blend sets the context for the design of houses within Homestead Preserve. The influence of English trends, techniques and aesthetic choices influenced the form and character of both the architecture and the setting of the yard and site. Later notions of the rural landscape as a picturesque experience became more important to newly arriving residents in the mid-1800s. Local materials and available craftsmen further refined the detail and character of houses. Local stone, brick, timber, and stucco methods contributed to a sense of place.



*Precedent sketches for proposed house types within the Preserve*



*Highlands Classical precedent*



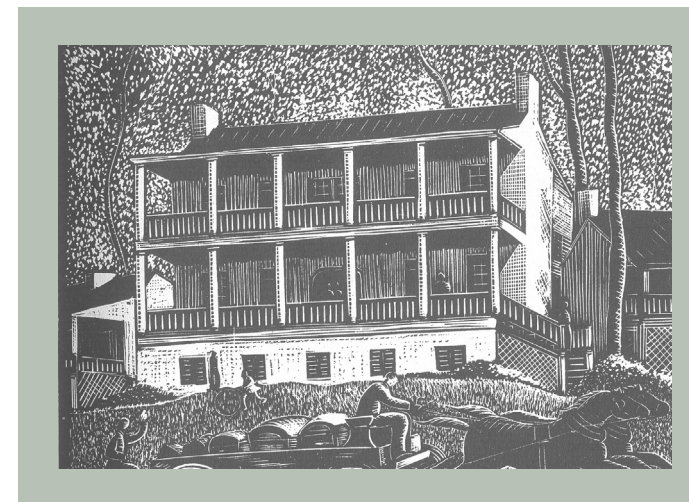
*Highlands Farmhouse precedent*



*English Romantic precedent*



*Highlands Arts & Crafts precedent*



*Woodcut by Charles Smith entitled "Mr. Henderson's House" from the book The Springs of Virginia by Perceval Reniers*

# Architectural Precedents





*Images of landscape elements added by settlers that contribute to the unique sense of character and quality within the Allegheny Highlands*



# Highland Character

THE INHERITED LANDSCAPE in the Warm Springs Valley draws its distinct character from the mix of three very different elements. The natural terrain is marked by dramatic changes in elevation within a sequence of multiple ridgelines running in a northeasterly direction. These ridges frame a series of gaps that run east-west and create narrow valleys which traditionally have been farmed and converted to pastures. Settlers drawn to the resort and scenic quality of the region built houses along the historic Valley Pike or up into the heavily wooded slopes to take advantage of the tree cover and views out to the valleys and the gaps. Many imported more exotic plant species and created picturesque gardens and landscapes influenced by patterns in the English countryside. This combination of natural land form, agricultural landscape patterns, and the picturesque planting create a unique palette within the region.



*Landscape and house appear as a unified composition in the Dunn's house along the old Valley Pike. The stone of the house, the terraces, the springs and plantings over the years create a timeless composition.*

# Landscape Precedents





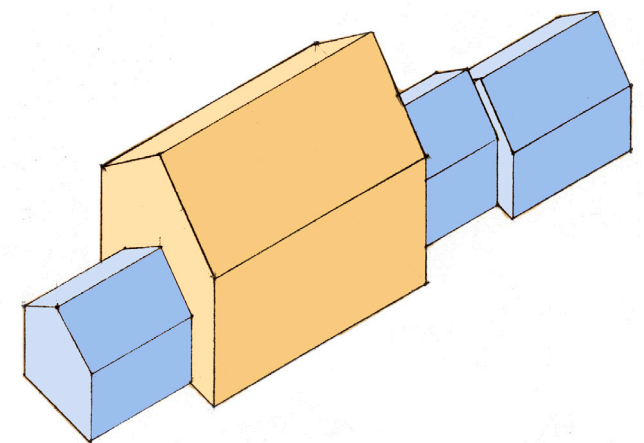
*Historic house sites in this region often evolved over time. The original "cabin" was often replaced by a larger, more finished house. Outbuildings were added as needed to form a kind of compound.*

## Change Over Time

HOMESTEAD PRESERVE HOUSES will be designed to fit into the landscape in much the same way as traditional houses were before them. There is a subtle sense of belonging to mountains and becoming part of the landscape form in these older houses. The care and responsiveness to the slope of the land, the approach of the drive and the definition of the yard are all patterns that grew out of an intuitive understanding of the relationship between the house and the site.

Most houses evolved over time, starting with a rough hewn log structure, then a more refined and larger main house that may have rooms added to the structure as the family grew. Outbuildings that served the utilitarian needs of the rural household created yet another quality recognized as part of the physical and cultural fabric of the Allegheny Highlands.

Homeowners and architects at Homestead Preserve are encouraged to build and design in much the same way with the current amenities and needs of today's residents accommodated in the internal layouts and furnishings. Houses in the Preserve will be designed such that they can grow over time; the body of the house is largely linear in form and narrow in depth to minimize grading and level changes. Preserve houses use traditional materials, colors and detailing.

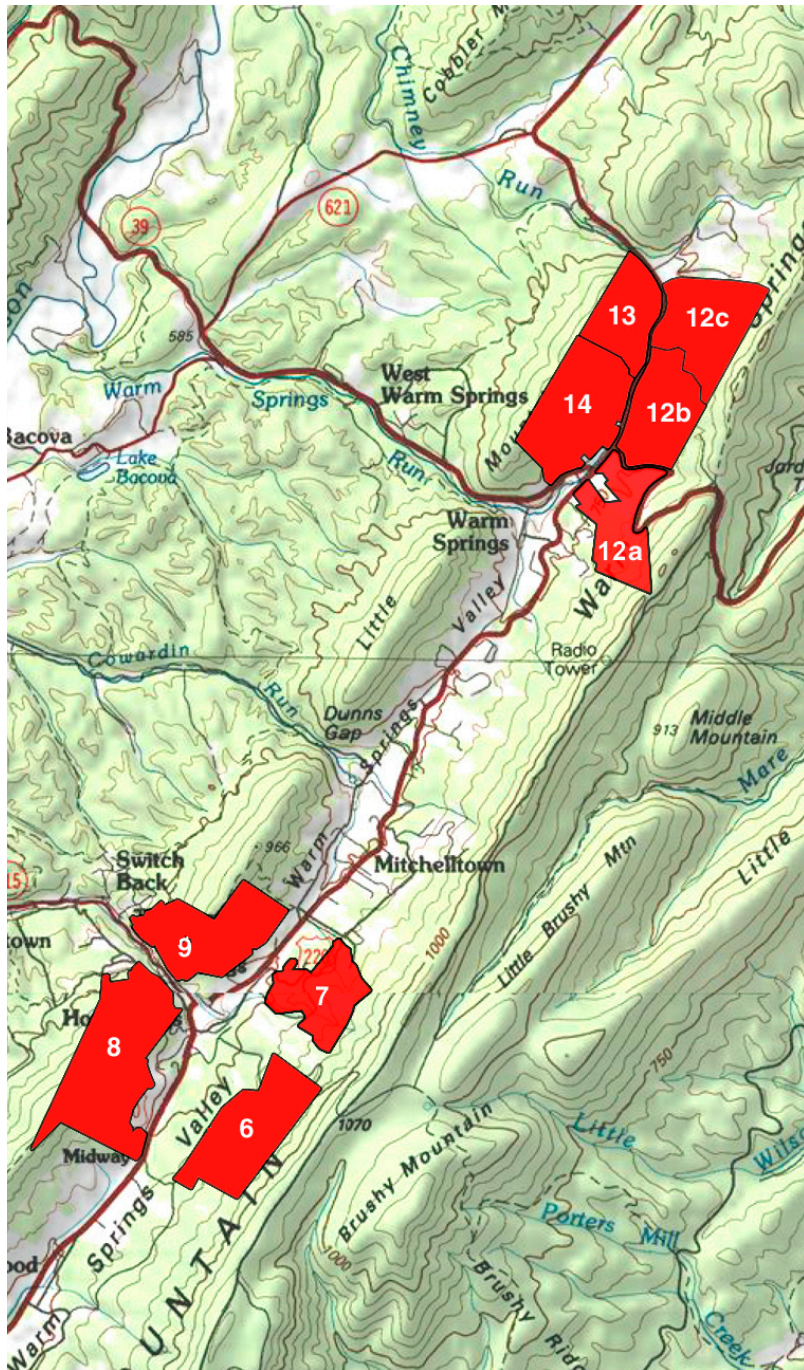


# The Preserve House

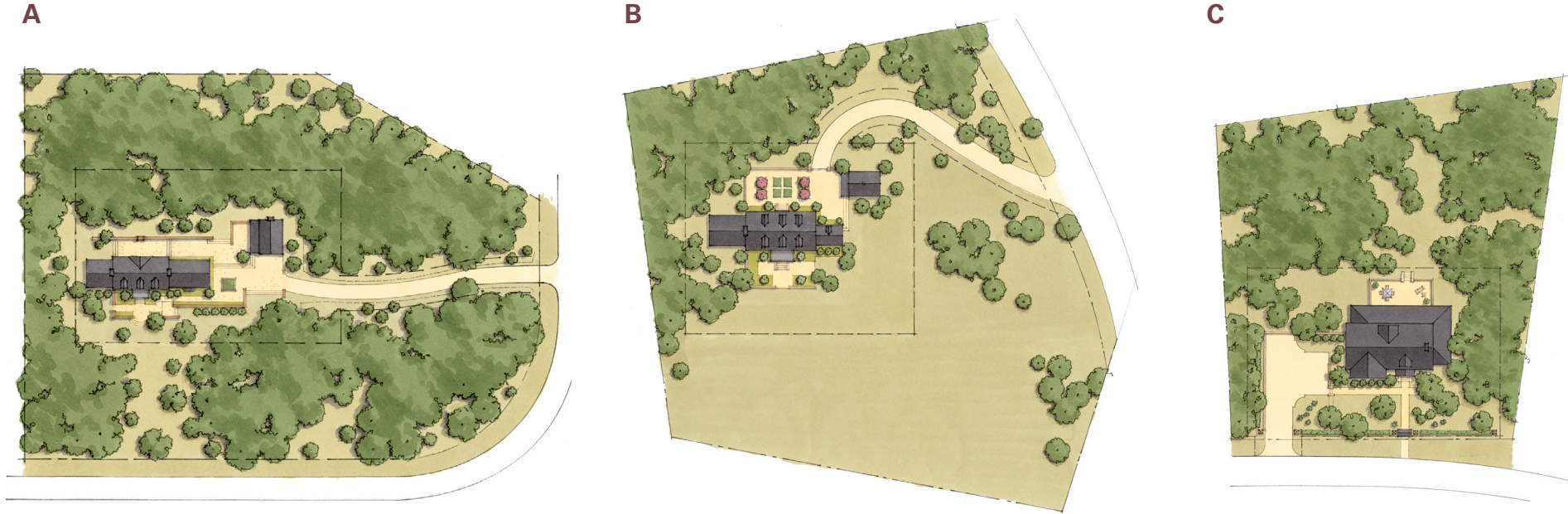


SECTION **B** Rural Settlement Patterns





Overall parcel map



Site types include: **A** Woodland Preserve, **B** Meadow Preserve, and **C** Hamlet



Traditional English romantic houses appear to grow out of the landscape

# House Sites in the Preserve

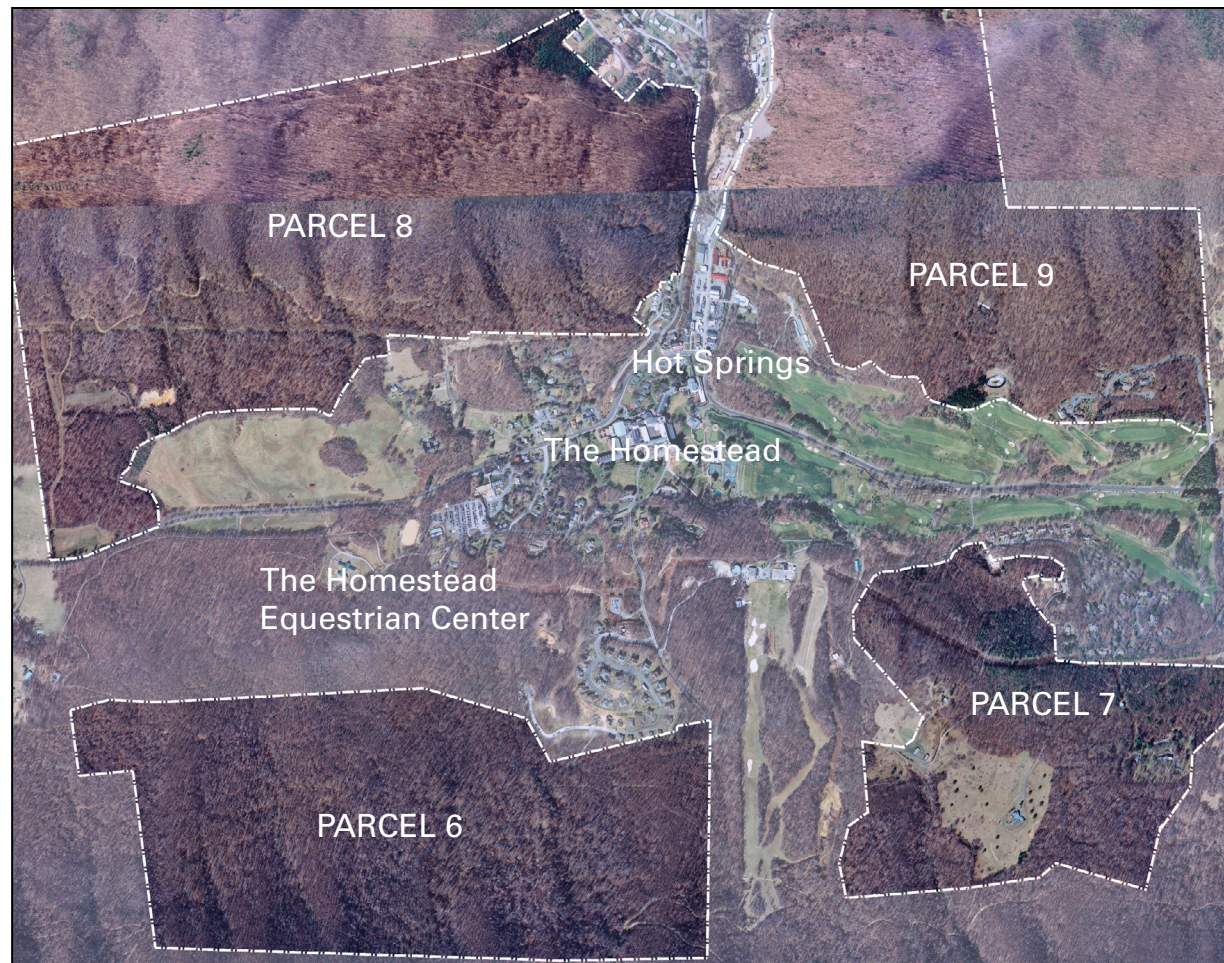
The seven primary land parcels which make up the Homestead Preserve plan are distinguished by their location adjacent to either Hot Springs or Warm Springs. The plan builds upon the unique physical characteristics of each parcel to create distinct addresses for house sites. In Hot Springs, these addresses include Woodland neighborhoods such as Falconry Ridge and Overlook Heath. Three distinct site conditions occur within the Homestead Preserve: Woodland Preserve sites, Meadow Preserve sites and Hamlet sites. Following a description of the key addresses and site types, general guidelines for building on each type of site are presented.



Images of Preserve house and site character

# The Preserve Plan





*Partial Plan of the Homestead Preserve*



*A high meadow above the town of Hot Springs*



*An historic house adjacent to the resort*



*View of the spa at The Homestead*

## Settlement Patterns

Hot Springs was developed as a resort in the late eighteenth and early nineteenth centuries, and was easily reached from eastern cities via railroad and coach by the mid-nineteenth century. Though the landscape and resort are beautiful, it was the waters that made Hot Springs distinctive. Nine separate baths of varied temperatures were said to be “excelled by nothing ever known to the human race.” House sites are located in parcels 6, 7, 8 and 9 and are largely in woodland areas surrounding the resort, ski slopes and town. Many have spectacular views. The Homestead Preserve Plan seeks to reinforce the settlement patterns which historically occurred surrounding the Homestead resort. There are mountain hamlets, each with a distinct feel and character and more singular sites that are nestled into the slopes above the valley floor. The following pages illustrate some of these unique addresses in the Hot Springs area of the site.



*Relaxing on the The Homestead's Porch*

# Hot Springs





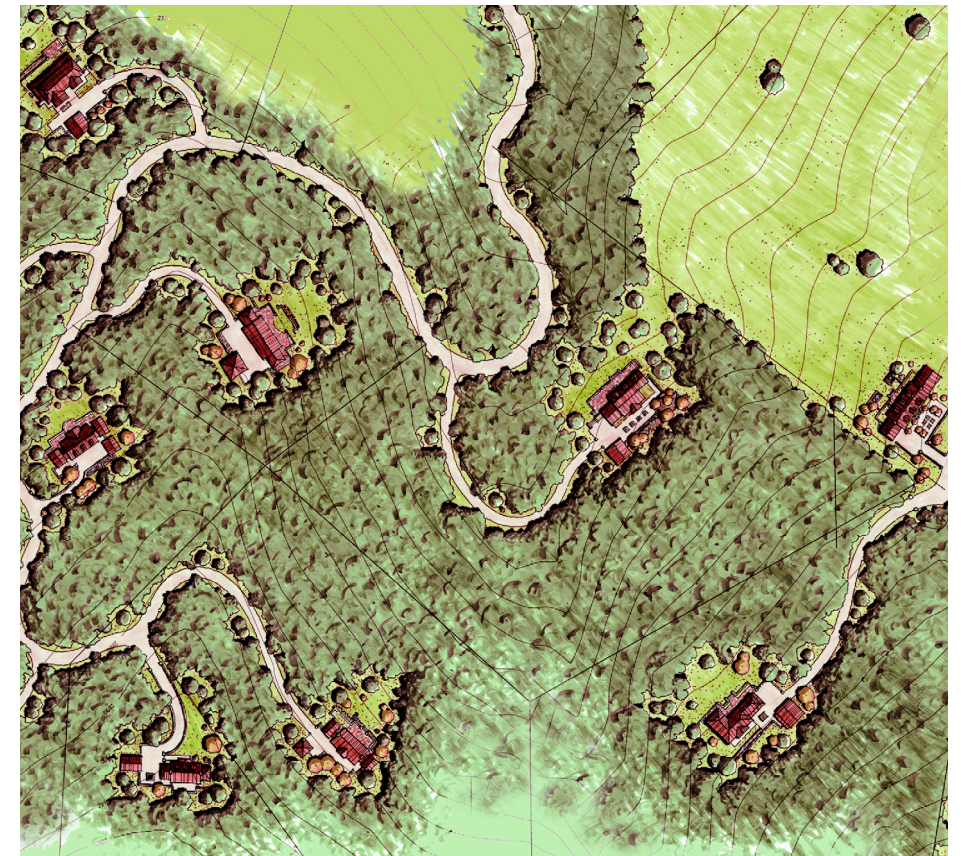
*Perspective of an Arts & Crafts house on a typical Woodland Preserve site overlooking the valley*



*View of a Hamlet site in the woodlands looking towards the old course of the Homestead*

## Woodland Neighborhoods

Country lanes wind their way up the slopes following historic trails to access home sites strategically located to provide views of Warm Springs Mountain and long gap views through the forest. Houses are sited above and below the road to afford private outdoor space and maximize views. Highlands Farm-house and Arts & Crafts styles work well on the steeper slopes and Highlands Classical style houses appear at the edges of the woodlands. (These and other Architectural Styles selected for Homestead Preserve are described in Section C of this Pattern Book.)



*Illustrative plan of The Heights, one of the Woodland Neighborhoods in the Preserve*

## Hot Springs – Key Addresses





*Perspective of a Highlands Farmhouse style house on a typical Hamlet site*



*View of the Sheep Meadow*

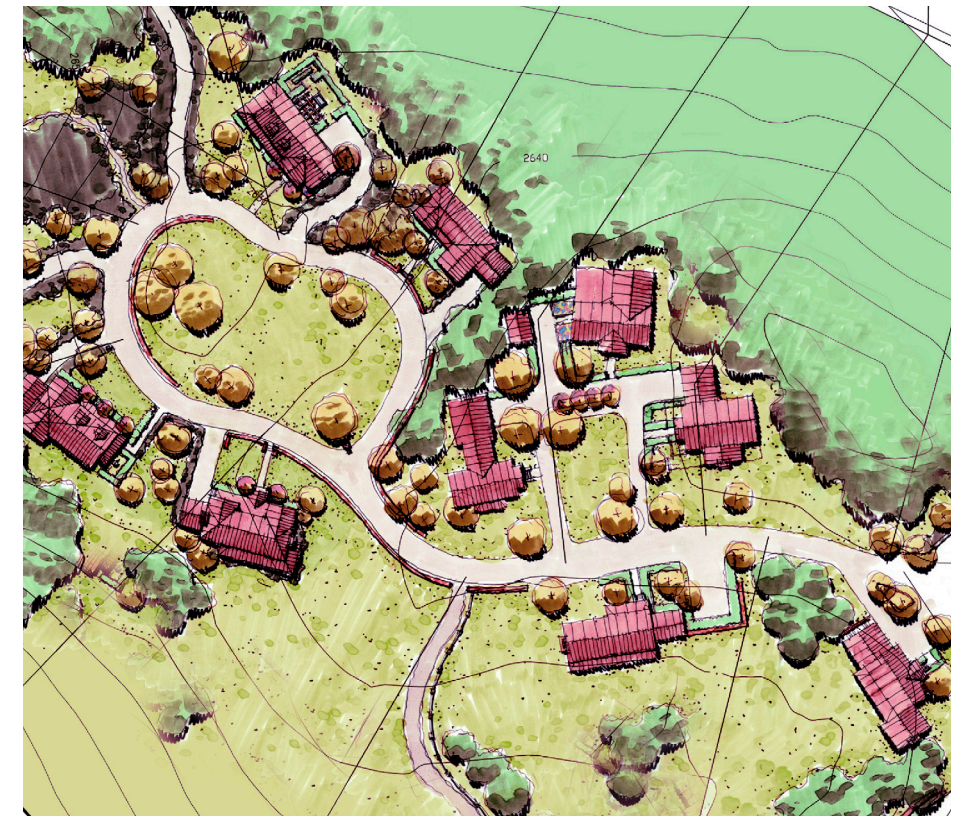


*An Arts & Crafts house in a woodland setting*

# Hot Springs – Key Addresses

## Falconry Ridge

One of the most distinctive locations situated in Hot Springs is an area known as the Sheep Meadow. Perched on a ridge at the edge of the woods overlooking the Sheep Meadow and the old falconry barns, Falconry Ridge is a country lane informally lined with houses where many are placed close to the road and open onto the view of the meadow below. Along the meadow's edge, the houses are designed in the Highlands Farmhouse style and clad in white clapboard. As the lane weaves its way into the woods around a knoll at the top of the hill, the houses are suited well for the Highlands Arts & Crafts style. They are painted in rich earth tones and surround a forested public space which includes a natural spring house. A community teahouse pavilion sits atop the knoll. This area includes a variety of choices for house sites including Hamlet, Meadow and Woodland Preserve sites.



*Illustrative plan of the Falconry Ridge neighborhood*





*Perspective of an English Romantic house on a typical Hamlet site*



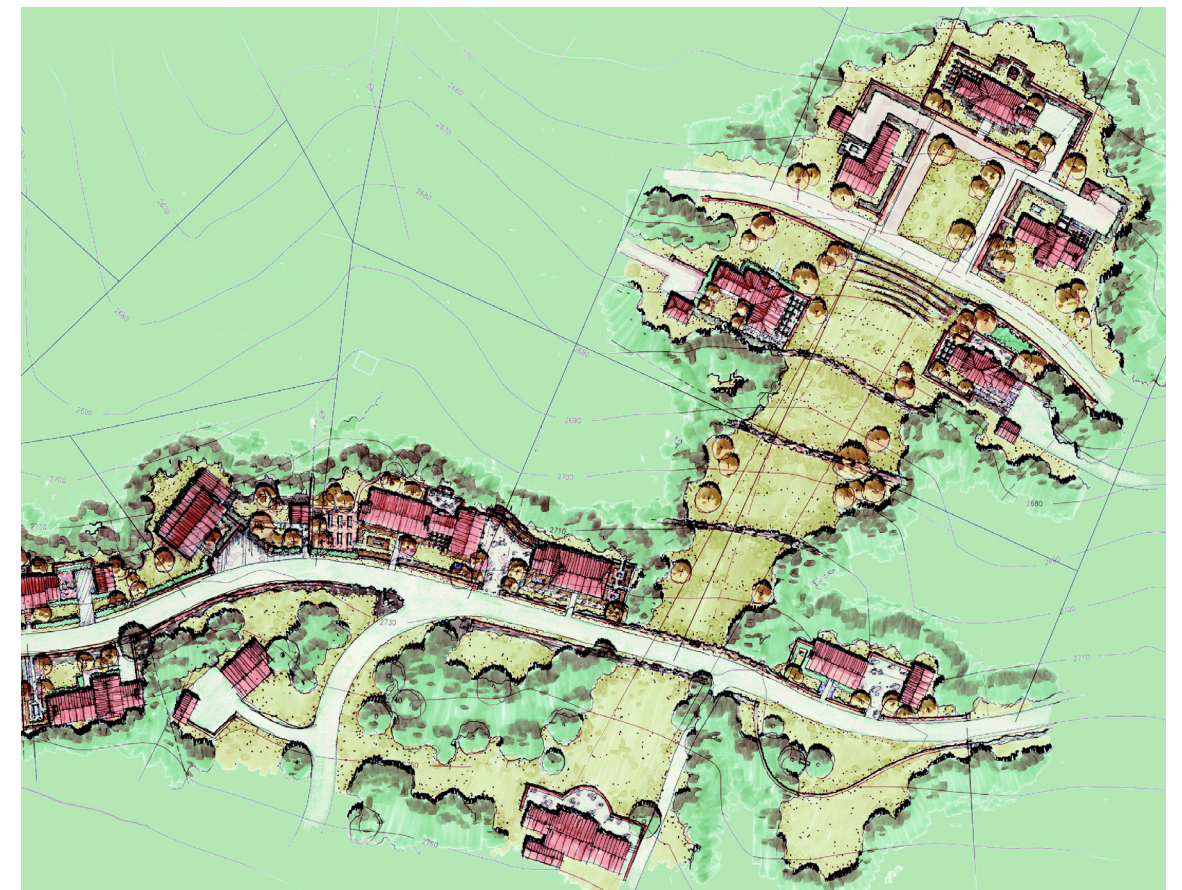
*English Cottage precedents in Yorkshire*



# Hot Springs – Key Addresses

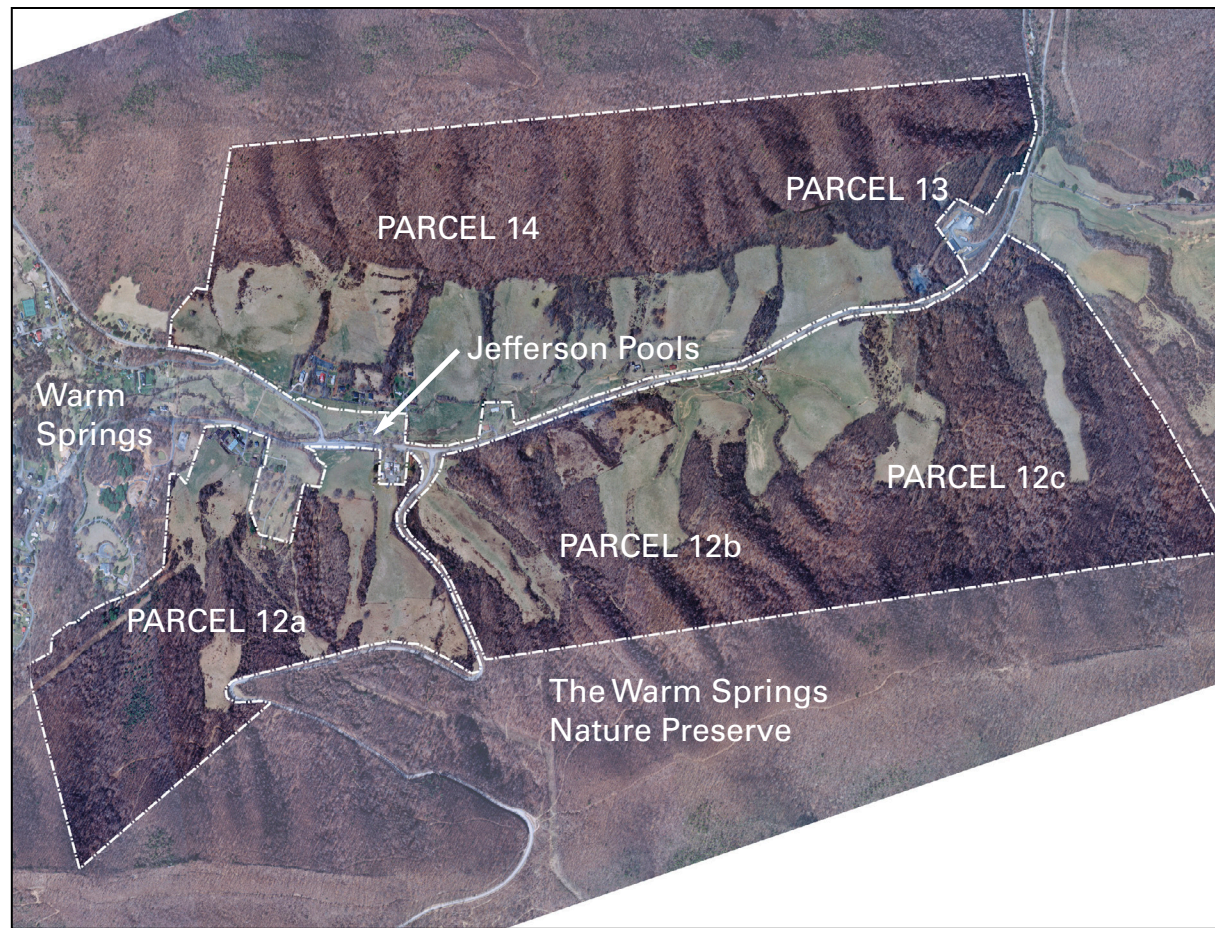
## Overlook Heath

Another special place in Hot Springs, laid out in the tradition of English Picturesque landscape design, is an area called Overlook Heath. The Heath is a terraced pastoral green sculpted out of the forest and surrounded by carefully sited, English Romantic style houses. Houses sit at the edge of the heath tucked partially into the woods. Bounded by upper and lower stone walled lanes, this address provides a delightful surprise along the winding journey up from the valley. A grouping of three English Romantic style houses around a more formal green anchors the lower edge of the heath while the restored Overlook Manor commands the view from above.



*Illustrative plan of the Overlook Heath*





*Partial Plan of the Homestead Preserve*

## Settlement Patterns

The historic approach to Warm Springs is via a winding, ascending country road affording wonderful mountain scenery. Upon reaching the summit, an amphitheater of deep glens opens up below, with views of mountain ridges in the distance. The Warm Springs Hotel, once considerable structure, was situated at the intersection of the historic Valley Pike and what is now S.R. 39 before it was demolished at the turn of the last century. It was built to provide accommodations for visitors to the adjacent Jefferson pools. Warm Springs, with its straight roads and clustered houses, more resembles a hamlet than a springs resort. Warm Springs area of the Parcels 12, 13 and 14 contain both woodland and meadow areas surrounding the old Homestead dairy, Jefferson pools and the town. Many of the sites within these parcels have spectacular views. The Homestead Preserve Plan will reinforce the historic settlement pattern of Warm Springs, with larger farmsteads on the meadows overlooking the valley and the town.



*Views of the landscape in Warm Springs*



# Warm Springs





*Perspective of a Highlands Farmhouse on a typical Meadow Preserve site overlooking the valley*



*Highlands Farmhouse precedent in Bath County*



*A traditional farmstead in the valley*



*A typical road through an upland pasture*

## Warm Springs

The rolling foothills flanking the Warm Springs settlement create a series of large land holdings that mirror the traditional farmstead patterns found throughout the northern leg of the valley. Farm houses, barns and out-buildings dot the landscape in a way that creates a unified image of the agricultural character found in the Allegheny Highlands. Owners within the Preserve parcels around Warm Springs will have an opportunity to enjoy the unmatched views from the hillsides and contribute to the legacy of the agrarian character established by the early settlers. Long meadows, upland pastures, and secluded woodland sites provide a rare opportunity to experience this unique sense of place. Architecture in many of these sites will be designed to follow the character and form of traditional Highland farmhouses.



*Illustrative plan of Meadow Preserve sites in Warm Springs*

# Warm Springs – Key Addresses

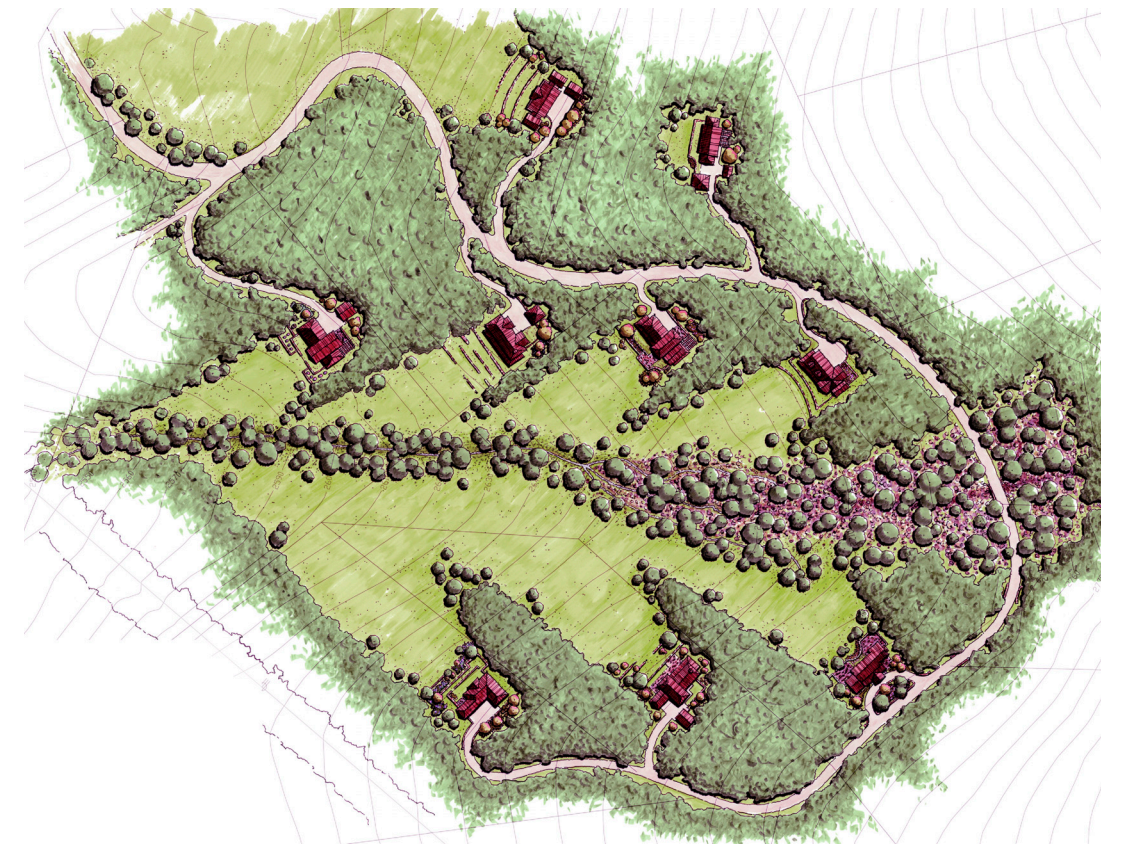




*Aerial perspective of houses on Meadow Preserve sites in the Upland Glades*

## Upland Glades

Set high above the historic dairy farm, the Upland Glades is an example of a high meadow clearing formed around a ravine. A seasonal mountain drainage way emerges out of a spectacular natural boulder field to bisect the meadow. Stone walled terraces and hedgerow-lined lawns border each site within the Glades. The architectural palette includes Classical, Arts & Crafts and Highland farmhouses. The houses are clad in stone veneer, stucco, cut shingles and clapboard, painted in rich earth tones, and feature broad porches designed to extend the living space out into the natural setting.



*Illustrative plan of the Upland Glades*

# Warm Springs – Key Addresses



## Woodland Preserve Sites

The preservation of the native woodland character found throughout much of the Homestead Preserve is crucial to the sensitive development of the landscape. Since the early development of the region, those with means sought to build homesteads within these heavily wooded slopes taking advantage of tree cover and spectacular views. These same aspirations hold true today. The sustainable development practices ascribed to land designated as Woodland Preserve lots safeguard the natural resources and aesthetic woodland character of the Homestead Preserve.

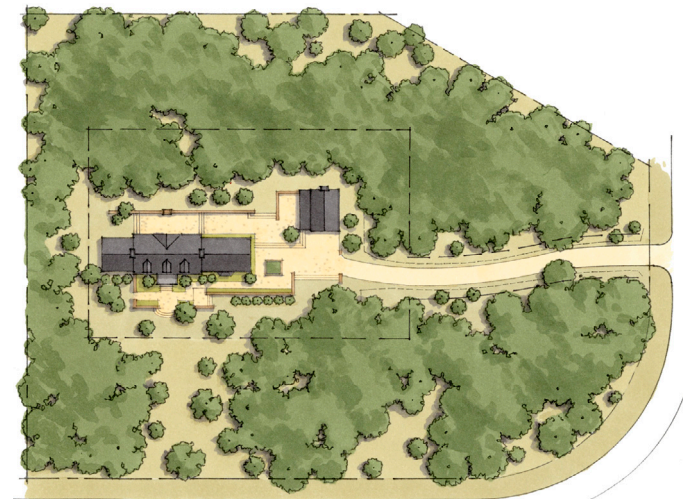
Development patterns for steeply sloped Woodland Preserve lots must protect as much of the existing tree stands by employing sensitive grading and efficient use of space. A smaller envelope of disturbance may be achieved by organizing the layout of house and grounds in a linear

fashion running parallel to the contours of the slope. When necessary, terracing the land will provide additional space. It is preferable to avoid specimen and significant stands of native vegetation when situating the house. The creation of views as well as buffering of neighboring development may be accomplished through the thoughtful placement of the building. The same principles should be exercised in the selective clearing of vegetation within view clearing zones on scenic lots.

Grading and disturbance of tree stands can be kept to a minimum by thoughtfully aligning driveways along the contours of the slope and away from significant native specimen trees. Additionally, drives aligned in a curvilinear fashion may take advantage of the rich woodland landscape character.



*Illustration of a developed Woodland Preserve site*



*Final site development showing cleared areas, tree preservation and the driveway*

## General Conditions



## Meadow Preserve Sites

The developmental approach of the Homestead Preserve serves to protect the heritage and character of open and rolling meadow landscapes within the Preserve. Safeguarding these meadow landscapes not only carries on the bucolic tradition and landscape patterns of the Allegheny Highlands but employs these patterns to create a rich experience of the landscape. Meadow landscapes afford regional views and valuable open space.

Houses on Meadow Preserve lots should be carefully sited to establish the house and grounds along the verge of the existing meadow. By sensitively containing disturbance to the perimeter of the meadow, the massing of the structure is absorbed by adjacent woodlands and/or associated with the roadside landscape.

Driveways on Meadow Preserve lots should lay gently upon the open landscape with gentle cross-sections that transition into the existing grade. A seamless edge may be established between the house and grounds, and the adjacent meadow by limiting the amount of grading. Steep slopes requiring gutters should incorporate the overall width of the drive and associated gutter into the gentle transition back to the existing grade of the meadow.



*Illustration of a developed Meadow Preserve site*



*Final site development showing cleared areas, tree preservation and the driveway*

## General Conditions



## Hamlet Sites

In addition to safeguarding the natural and aesthetic qualities of the landscape, the Homestead Preserve seeks to build upon the historic settlement patterns of the region. These settlement patterns historically included modest assemblies of residences in close proximity to one another tucked within the valleys and hollows creating small roadside communities. Hamlet Sites of the Homestead Preserve carry on this tradition, situating selected lots in relatively close proximity thus establishing a larger community address within the Preserve.

Hamlet Sites are located in specific areas of the Preserve associated with principal landscape features and developable land. Often located nearer to the road, these sites and their attendant houses engender a sense of community reinforced by their spatial proximity and the architectural style of the houses. Locating the structures

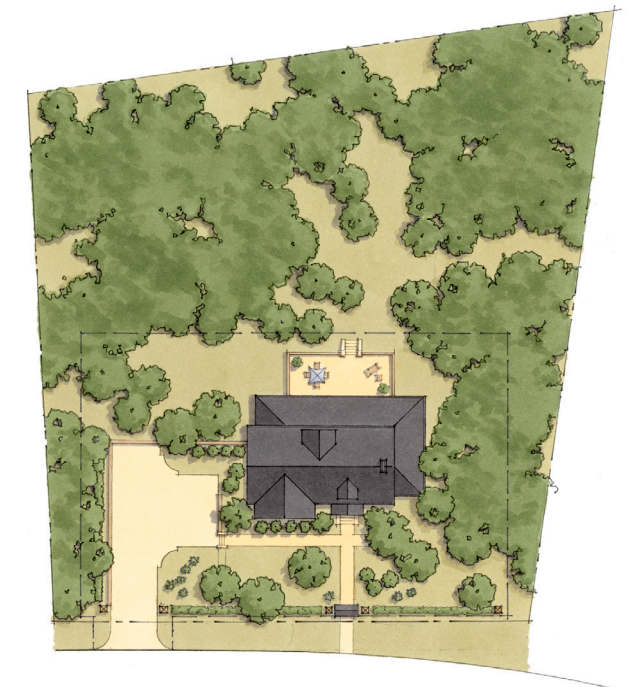
in this pattern will reduce the amount of grading on steeply sloped sites and limit the loss of vegetation. Other Hamlet Sites locate additional developable areas farther back from the road, creating an intimate assembly of residences tucked into the woodland landscape.

The spatial organization of Hamlet Sites provides opportunities to establish shared common features and amenities. Residences located near the road may share parking courtyards and drives. Likewise, Hamlet Sites set back from the road will limit disturbance to the natural environment by employing a shared driveway between houses. Carriage House garages and dependency wings can be engaged with walls and hedgerows to define courtyards.



*Illustration of a developed Hamlet site*

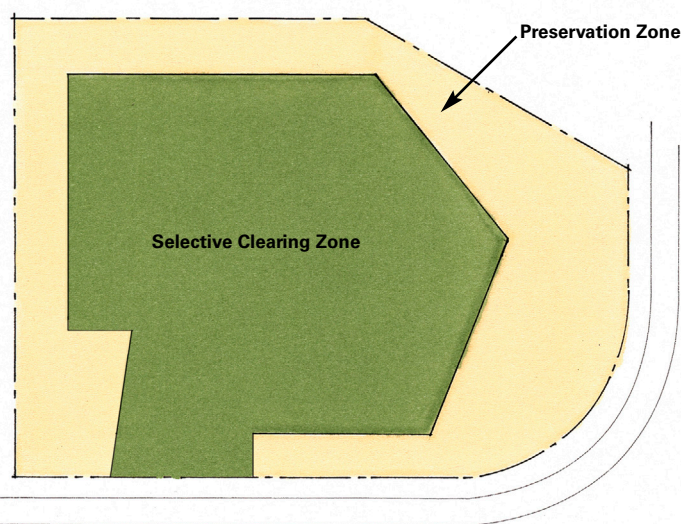
## General Conditions



*Final site development showing cleared areas, tree preservation and the driveway*



1

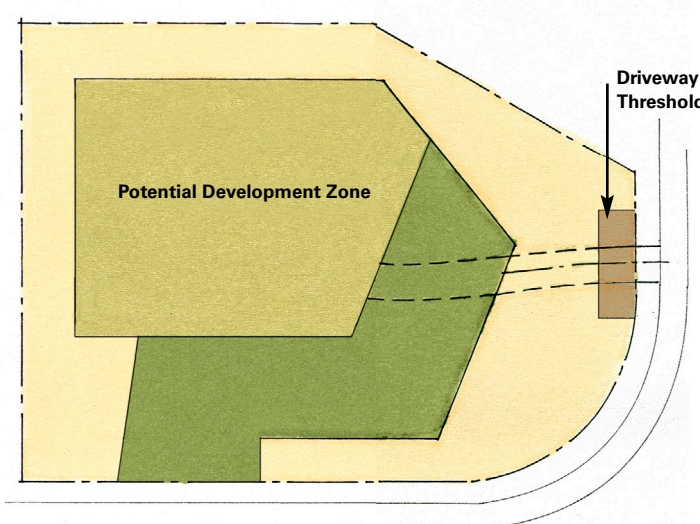


*Preservation and Selective Clearing Zones*

The following conventions identify site specific development restrictions. **(1) A Preservation Zone** specifies land to be preserved and protected within each site. This zone ensures the safeguarding of the most sensitive areas, including steep slopes, mature tree canopy and drainage patterns. Preservation Zones are configured to buffer views between houses in woodland and meadow lots and reinforce association of community on hamlet sites. No clearing, disturbance or intervention may take place within these areas unless otherwise approved by the ARC, with the exception of locating the driveway and routing utilities.

The **Selective Clearing Zone** encompasses all land not occupied by the encircling Preservation Zone. This zone establishes a second tier of preservation for the lot at the same time making provisions for building and amenities.

2

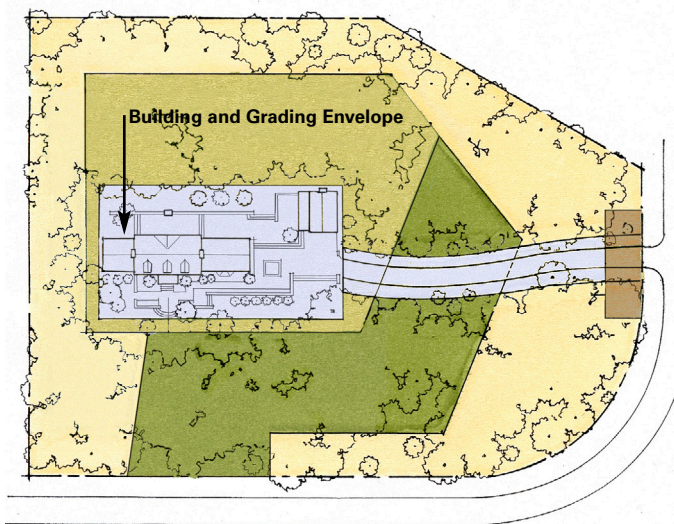


*Potential Development Zone and Driveway Threshold*

In general all vegetation and topography in this zone should be preserved unless otherwise approved by the ARC, with the exception of the Building & Grading Envelope and the establishment of views and utility routes. Selective clearing of approved areas within this zone may facilitate staging and storage during construction operations. Additional clearing within this zone is limited to the removal of dead or unhealthy woody material, or vegetation less than 5 inches in caliper. See page B-13 of this *Homestead Preserve Pattern Book* for a detailed description of approved clearing types.

**(2) A Potential Development Zone (PDZ)** has been identified for each site. The PDZ defines the absolute boundary for any potential disturbance on the site unless otherwise approved by the ARC, other than selective clearing. The intent of the PDZ is to assure that the most sensitive

3



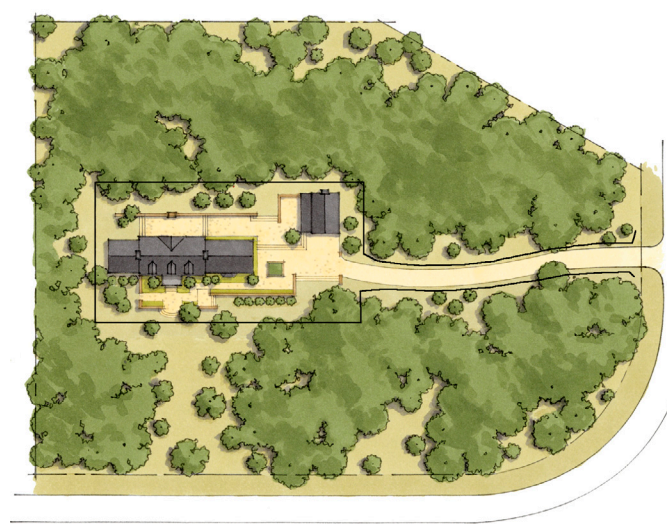
*Building and Grading Envelope*

areas of the site are preserved while allowing flexibility in determining the location of the house.

A 30-foot linear **Driveway Threshold** has been located along the property line adjacent to the collector road. The Driveway threshold identifies the most appropriate location for the placement of the driveway's connection to the road. The driveway must meet the road at a location within this threshold but may advance toward the Building & Grading Envelope in an alignment as desired by the property owner.

**(3) For each site, a Building and Grading Envelope (BGE)** has been established. This area defines the preferred limits of disturbance affected by the placement of the house. All grading attributed to siting the house should be confined within the BGE unless otherwise approved by the ARC. All lawn and garden spaces should also be confined

4



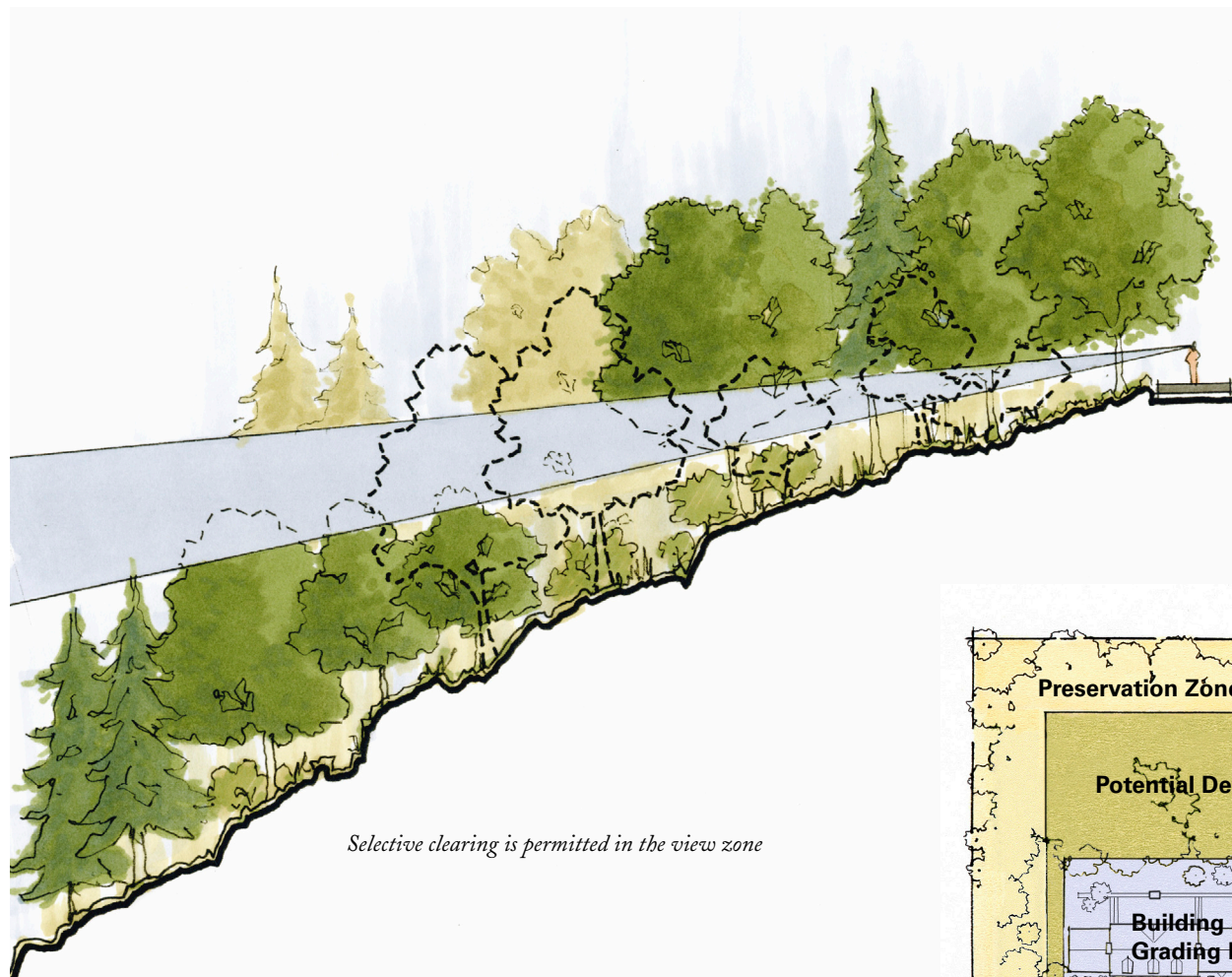
*Final Site Development Plan*

to this zone. The Building and Grading Envelope may be located anywhere within the Potential Development Zone and may be disaggregated into two or more separate envelopes. It is assigned as a gross square footage for each site and its size is determined by the unique environmental conditions of the specific site. BGE sizes for specific sites are found in the *Homestead Preserve Lot Portfolio*.

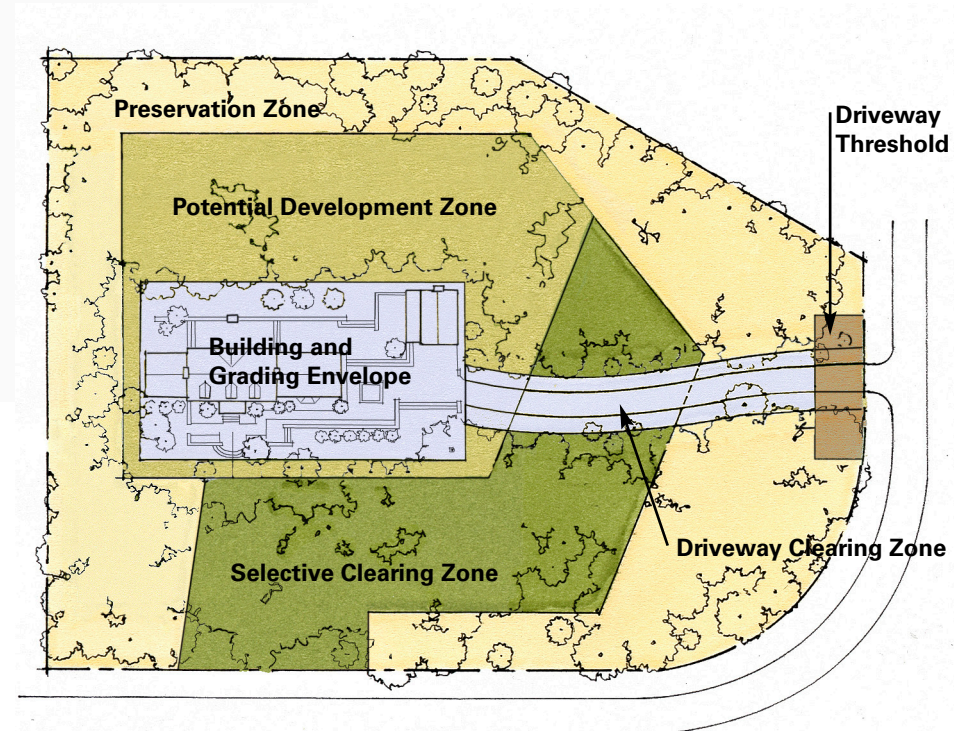
Given the steep terrain of many sites in the Preserve, it is advantageous to orient the massing of the house and grounds parallel to the contours of the slope. Special consideration should be given to Building and Grading Envelopes that exceed eighty-five linear feet in depth as they may require stacked retaining walls which detract from the natural character of the surrounding landscape.

# Site Planning





*Selective clearing is permitted in the view zone*



*Illustration of a conceptual site development plan*

## Clearing

Clearing is the initial step in the construction of a house. Maintaining the integrity and health of both the individual sites and the area at large by minimizing disturbance is a paramount objective in the philosophy of the Homestead Preserve. In order to achieve this objective, specific boundaries have been developed to contain all site disturbance. In general, all existing vegetation on individual sites must be preserved with the exception of selective clearing of approved areas within the Selective Clearing Zone. The various types of approved clearing areas are described below.

### Building and Grading Envelope

All vegetation within the Building and Grading Envelope may be removed. Healthy, mature vegetation within the envelope should be preserved wherever practical.

### Driveway Clearing Zone

All vegetation within the Driveway Clearing Zone may be removed. Healthy, mature vegetation within the zone should be preserved wherever practical. The width of the Driveway Clearing Zone is dependent on the existing slope of the site and is determined in consultation with the Preserve town architect.

### Glimpse Zone

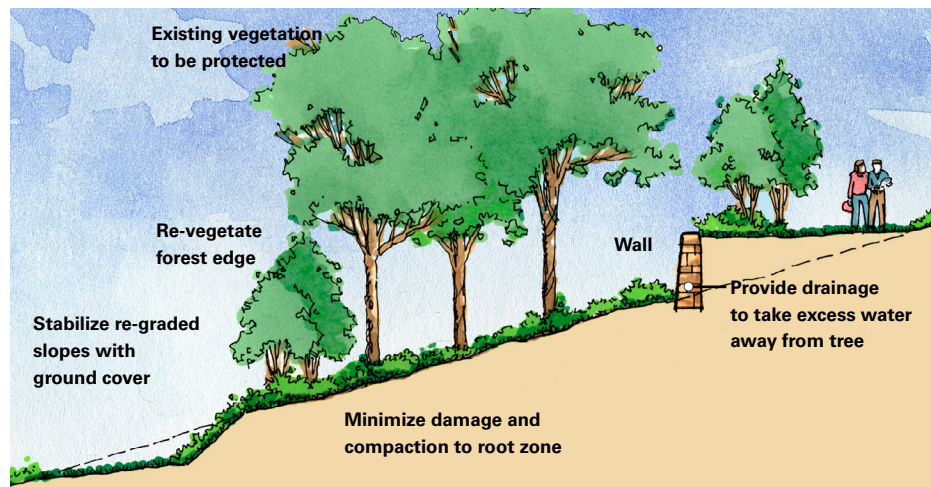
A Glimpse Zone can be located to allow for a view of the house from the road prior to arriving at the driveway. Selective removal of up to one-half of the trees as well as cleaning, topping, raising and thinning of trees within this zone is permitted. The size and location of the Glimpse Zone is determined in consultation with the Preserve town architect.

### View Zone

The View zone is centered on a bearing directed toward a desired view. Selective removal of up to one-half of the trees as well as cleaning, topping, raising and thinning of trees within this zone is permitted. The size and location of the View Zone is determined in consultation with the Preserve town architect.

# Site Development Principles





*Techniques to preserve trees*

## Grading and Drainage

Grading and drainage within the Homestead Preserve is meant to preserve the natural existing topography and maintain the delicate system of natural drainage. Any proposed improvements must be carefully planned to minimize disruption to the existing ecosystem or alteration of the topography. Once the trees necessary for building and site construction have been cleared, preliminary grading activities can begin.

Trees to be preserved within the Building and Grading Envelope must be carefully protected with proper techniques prior to site disturbance. Grading operations must be limited to only the Building and Grading Envelope and Driveway Zone.

Cuts and fills should be limited to a maximum of 2:1 slopes with a maximum vertical exposure of 6 feet. These slopes should be protected with erosion control measures and then be covered with topsoil and revegetated. Retaining walls are encouraged as a means of reducing disturbance and preserving trees. Walls should generally be no higher than 5 feet. Stacked retaining walls should be avoided where possible.

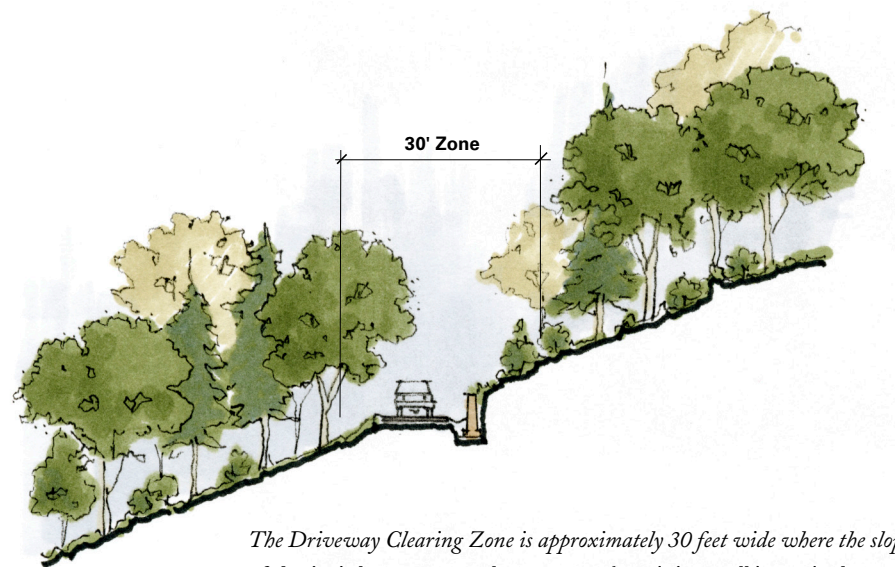
Major natural drainages that traverse the site should be maintained in their original configuration. Drainage swales are required at the cut side of all driveways.

## Driveways and Utilities

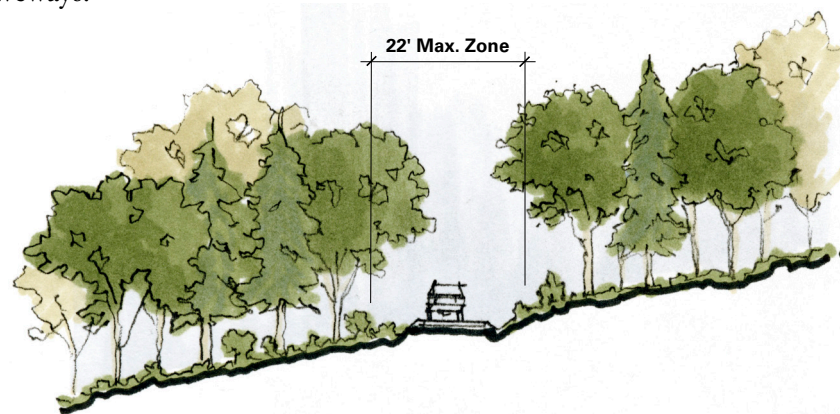
Access drives often have the greatest impact on the site. Consequently, great care should be given to their planning and design. The impact of driveways on the land can be minimized by following the natural contours of the site and meandering around trees and significant landforms. The length of the driveway is also a crucial consideration as shorter alignments will generally create less disturbance than longer ones. All disturbance related to driveway construction must be contained within the Driveway Clearing Zone and BGE. The width of the Driveway Clearing Zone is dependent on the existing slope of the site. Sites with steeper slopes are permitted wider Driveway Clearing Zones to allow for increased cut and fill requirements. Widths of Driveway Clearing Zones for specific sites are determined in consultation with the Preserve town architect.

The maximum recommended grade for driveways is 16%. Finished driveway surfaces on level sites should not generally exceed 12 inches above the immediately adjacent existing grade. The desired width of the driveway surface is 10 feet unless otherwise approved.

Utility lines should be underground and located within the Driveway Clearing Zone unless otherwise approved by the Architectural Review Board. Any approved utility-related disturbance outside of the Driveway Clearing Zone must be revegetated according to standards set forth in the Landscape Patterns section.



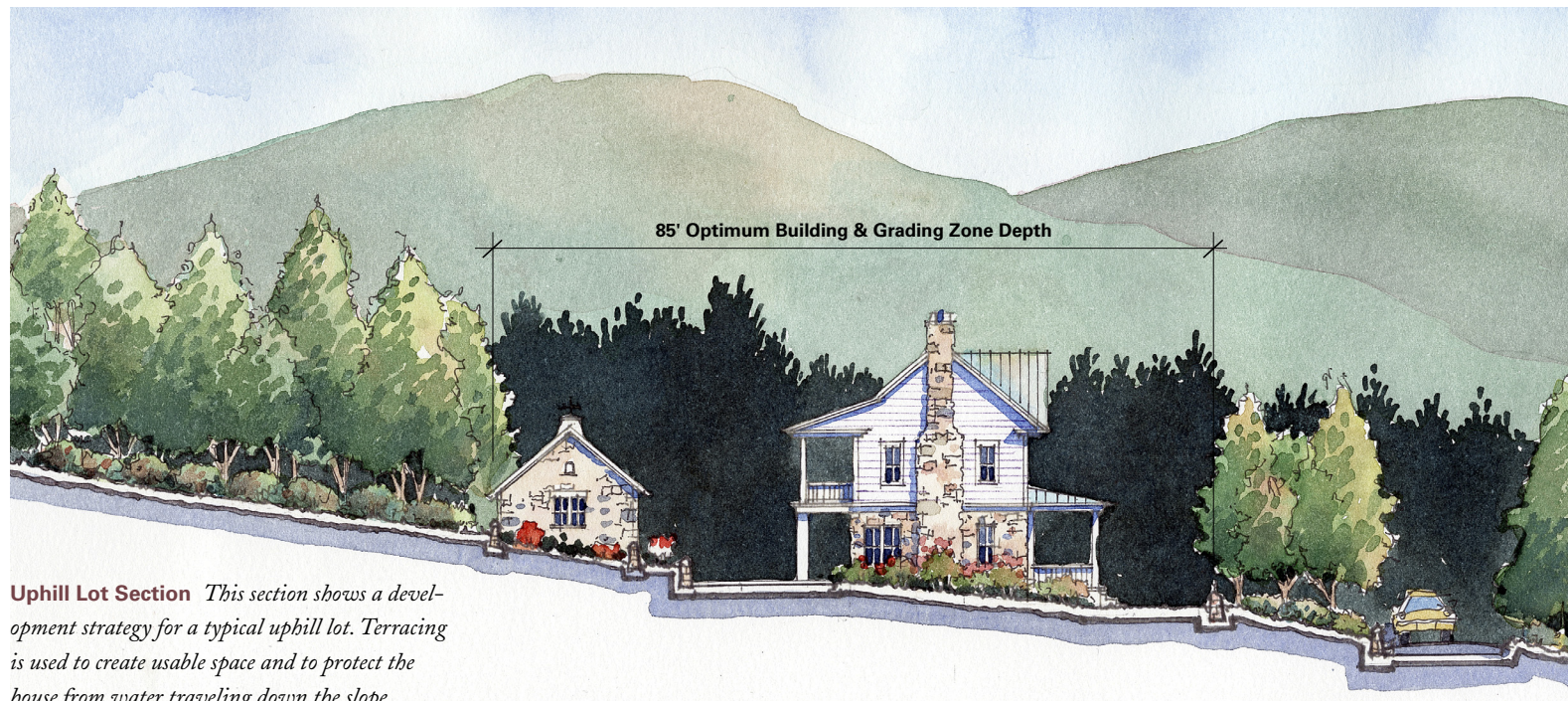
*The Driveway Clearing Zone is approximately 30 feet wide where the slope of the site is between 30 and 40 percent. A retaining wall is required.*



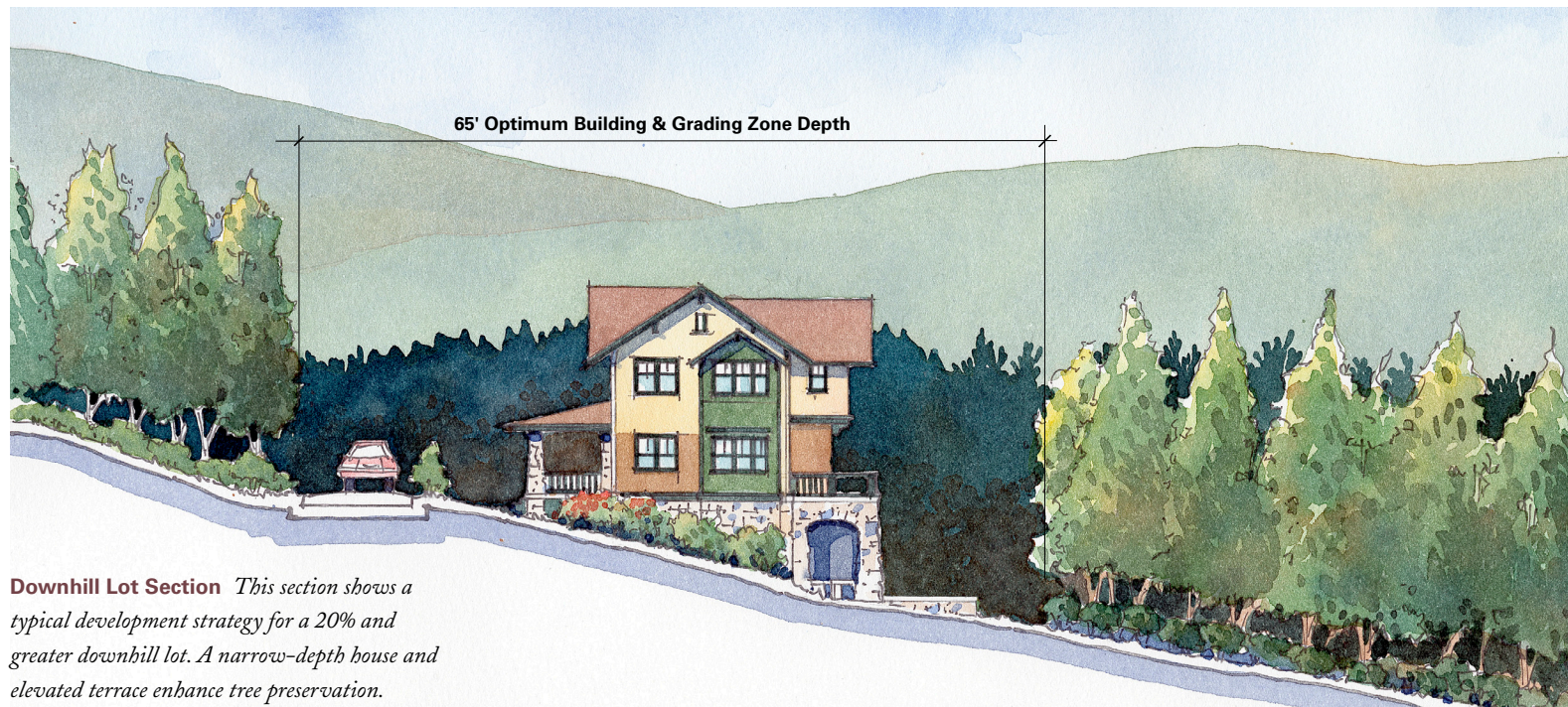
*The Driveway Clearing Zone is a maximum of 22 feet wide where the slope of the site is between 10 and 20 percent.*

# Site Development Principles





**Uphill Lot Section** This section shows a development strategy for a typical uphill lot. Terracing is used to create usable space and to protect the house from water traveling down the slope.



**Downhill Lot Section** This section shows a typical development strategy for a 20% and greater downhill lot. A narrow-depth house and elevated terrace enhance tree preservation.

## General Site Principles

### Structures & Site Amenities

Designing the house and yard to fit the slope is an important aspect to consider in the beginning of the design process. These illustrations show how grade change can be handled using various landscape elements, such as walls, steps and graded slopes. Walls and steps can be used to change grade quickly, and therefore minimize tree clearing. Site walls can also be used to create outdoor terraces and gardens that create highly functional and desirable spaces that serve the house. The use of walls, steps and slopes to preserve stands of trees will give newly constructed houses a timeless, enduring atmosphere.

Driveways are best designed to run parallel with the slope in the same way the house is designed as a narrow depth massing also running with the contours. Houses may step down to the street or may site downhill from an entry drive or court.

Houses should never step down slopes in ways that create additional wall or pier exposure that is greater than the typical height of a single floor. Terraces should be created with site walls or permitted slopes to create an appropriate base height for the lower story.

Walls should be constructed out of material in keeping with the architecture of the house and landscape setting.







*Houses in this region are positioned to take advantage of the sloping terrain. Narrow depth, stepping lawns and terrace walls create beautiful and practical transitions into the house.*

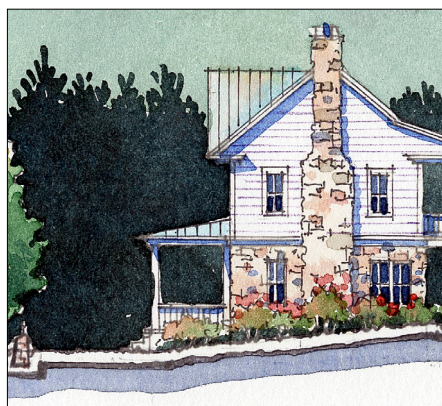


#### A Front House Entry

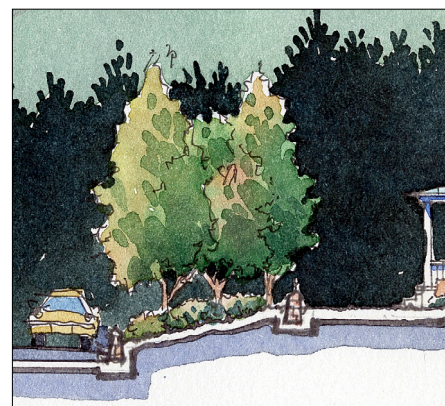
The front of the house should have an entrance that transitions 24 inches above the entry walk or front terrace to give the house additional presence in the landscape. This can be handled with three steps to the front porch or entry terrace, and one additional step into the house. Depending on the lot slope, a retaining wall may be required here. For instance, a typical 15% lot will require a 4'-3" grade change with a wall or slope.

#### B Front Yard Walls

Site walls may be used to create level terraced areas in the front yard. This technique helps to preserve existing trees on the site where grade changes are necessary. These walls can be integrated into the walls used to frame driveway entrances. These walls will also provide separation of the lot from public amenities, such as sidewalks and streets.



*Typical front entry illustrating a 2-foot change in grade at the front yard*



*Grade changes at the property line will vary depending on the slope of the lot and the right-of-way amenities*

#### C Rear Yard Terrace

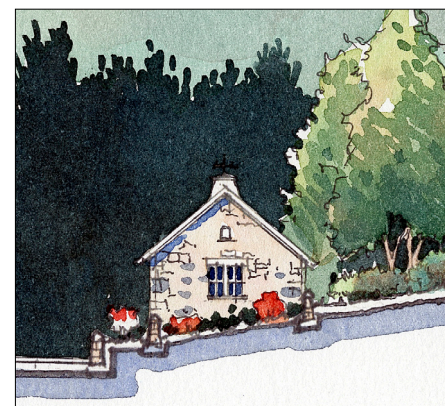
At the rear of the house, outdoor living space can be created with a terrace at the lower floor level. Where houses step down slopes, additional wall or pier exposure should not be greater than the typical height of the single floor. Terraces should be created with site walls or permitted slopes to create an appropriate base height for the lower story.



*Rear yard terraces help limit grading on a downhill sloping site*

#### D Rear Yard Perimeter

At the perimeter of the rear yard, which is a line that marks the maximum extent of the developed portion of the lot, terrace walls or slopes will be necessary to transition back to existing grade. This should be handled with the maximum 2:1 planted slope, one wall or a series of trellis walls to accommodate the change in grade. Small outbuilding can be used to retain the slope and gain level yard area.



*A typical 15% sloped site will have a 3 foot change in grade over 20 feet*

# House Site Elements



SECTION



# Architectural Patterns





Early twentieth century Classical house



#### Essential Elements of the Highlands Classical

- Simple volumes with one-story side wings and porches added to make more complex shapes
- Symmetrical composition of doors and windows
- Simplified versions of Classical details and columns – Tuscan, Doric, and Ionic orders – commonly used in the porch element or door surround
- Multi-pane windows that are wide in proportion usually with 6-over-6 or 9-over-9 pane patterns

## History & Character

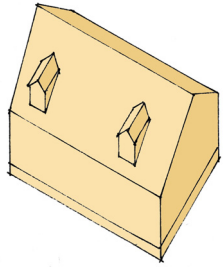
THE HIGHLANDS CLASSICAL HOUSE is based on Georgian, Federal, and Classical Revival houses from the late 18th through mid 19th centuries. The western Virginia region displays significant examples of houses from this period. Few of these houses were designed by architects but rather were commonly derived from illustrated volumes of the work of English architects such as Inigo Jones, James Gibbs and the Adam brothers. Many houses from this period were constructed using Pattern Books such as Asher Benjamin's *American Builder's Companion* from 1806. These houses are typically developed as simple, additive massing types with a dominant center pavilion or Main Body, and additive side wings and pavilions. Palladian composition became a principle organizing and proportioning reference for many houses from this period. As such, many of the houses found in the Allegheny Highland region are vernacular interpretations with simple detailing and massing as well as eclectic materials used in combinations by the date of construction for each wing. The main house may be brick, the wing out of stone, and the telescoping outer wing of wood clapboard. More rural roof treatment such as standing seam roofing enhance the rural quality of the architecture.

Highlands Classical houses will be designed using these compositional elements and massing principles. On steeply sloping sites found within the Homestead Preserve, these houses will use raised terraces or terraces cut into the slope to create formal entry relationships to the road.

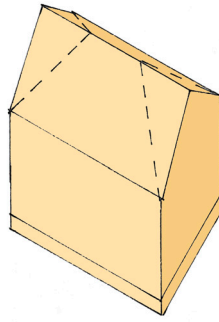
# Highlands Classical



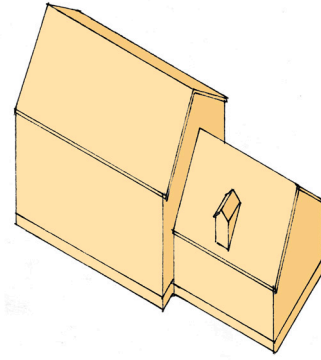
## Massing Diagrams



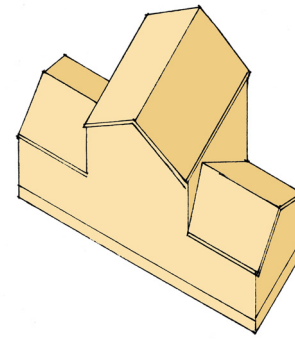
**A** One-and-one-half-story basic



**B** Two-story basic

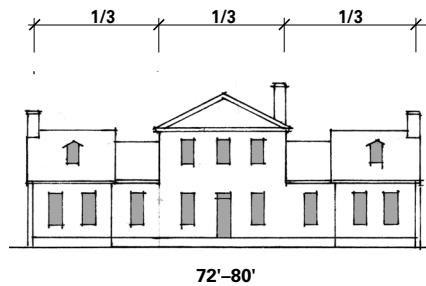
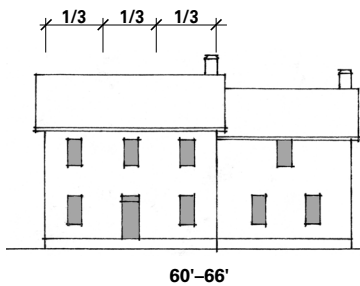
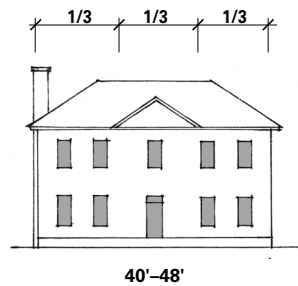
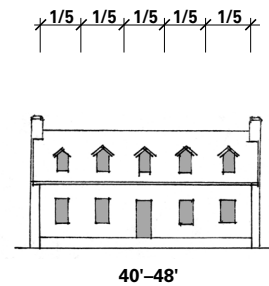
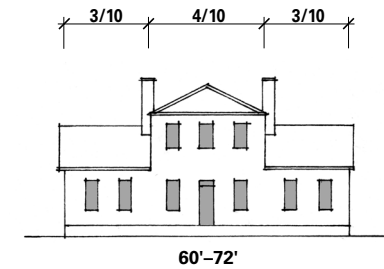
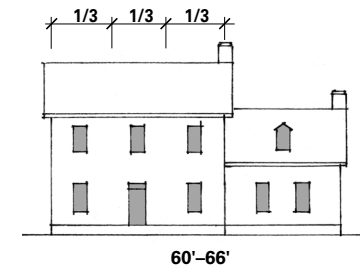
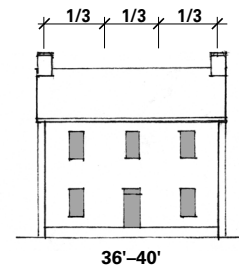
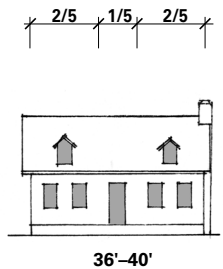


**C** Telescoping

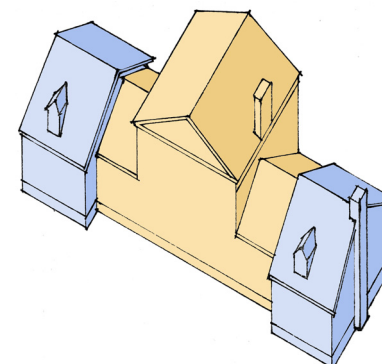
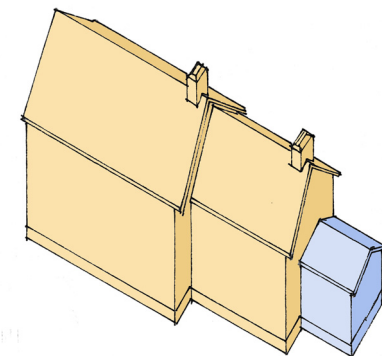
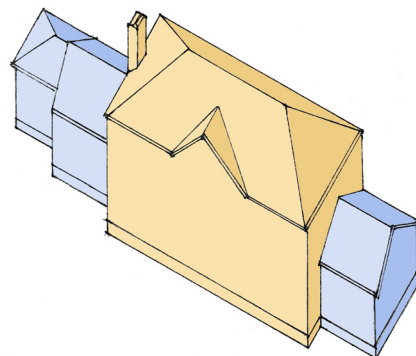
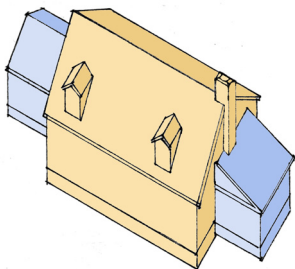


**D** Palladian

## Window and Door Compositions



## Possible Massing Combinations



# Highlands Classical

## Massing & Composition

### Massing

#### A One-and-One-Half-Story Basic

Side-gabled rectangular volume. One-story roof pitch is typically 5 to 8 in 12. One-and-one-half story roof pitch is typically 8 to 10 in 12. One-story entry porticos or simple door surround may be placed symmetrically on the front facade.

#### B Two-Story Basic

Hipped or side-gabled rectangular volume. Roof pitch is typically 4 to 8 in 12. One-story temple front or hip front porches, placed symmetrically on the front facade. Two-story center porches are also permitted. Porches are most often one-fifth to one-third the length of the main body, they may also be three-fifths or the entire length of the front facade.

#### C Telescoping

Two-story side-gabled rectangular volume attached to a similar yet smaller volume of either two stories or one-and-one-half stories. Roof pitch for both masses typically 8 to 10 in 12. One-story porches or entries may be incorporated on the large or smaller volume.

#### D Palladian

Two-story central block with gable facing forward to form a temple front, with flanking one-story wings or with two one-story hyphens and wings. Roof pitch is typically 5 to 7 in 12. One-story porticos occur on a central block.

### Facade Composition

Classical facade composition is characterized by a symmetrical and balanced placement of doors and windows, although slight variations can occur to accommodate the floor plan. Entrance doors are usually located in the center of the composition. Typical windows occur singly and align vertically from floor to floor. Chimneys are typically located on the end walls.

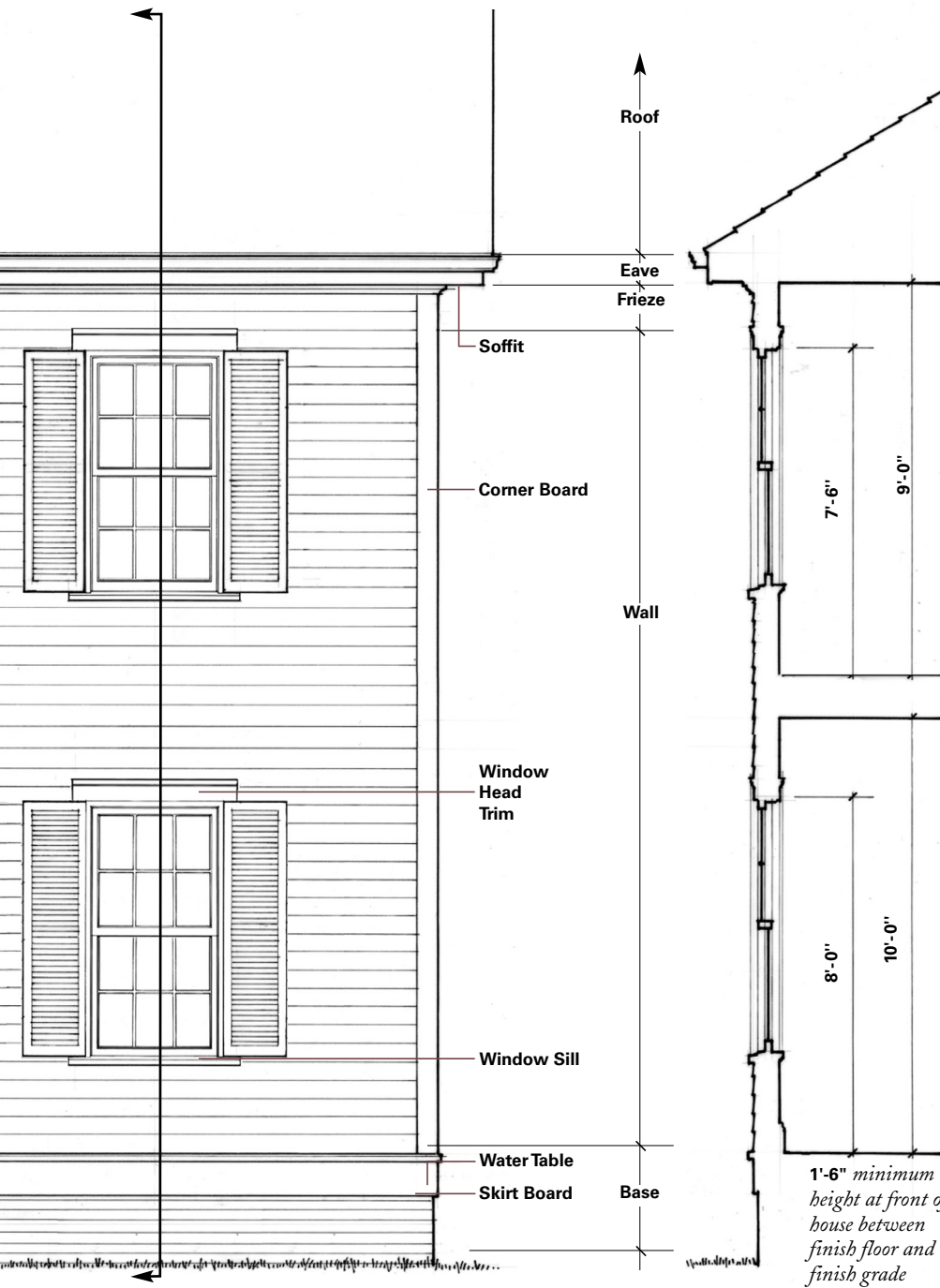
### Combinations

The depth of the main body of the house is recommended to be no more than 26 feet, unless otherwise approved. Complex forms and larger living spaces may be created by combining side and/or rear wings with the main body. Gabled or hipped dormers may be added to introduce light into half-story and attic spaces. The architectural character of the attached parts should match that of the main body.

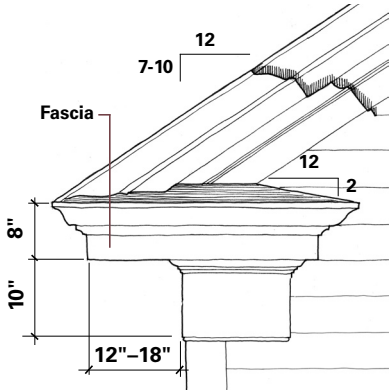




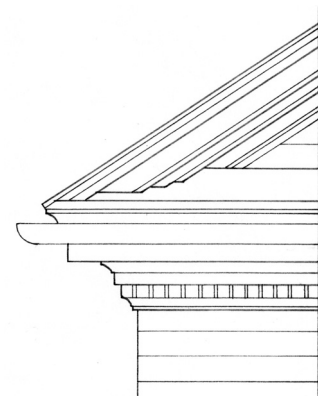
Partial Elevation and Section



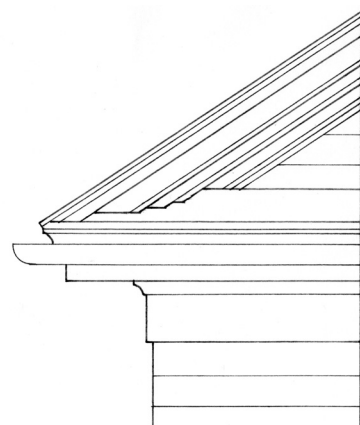
Eaves



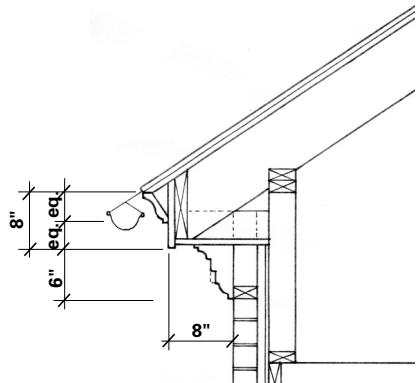
Boxed Eave Detail



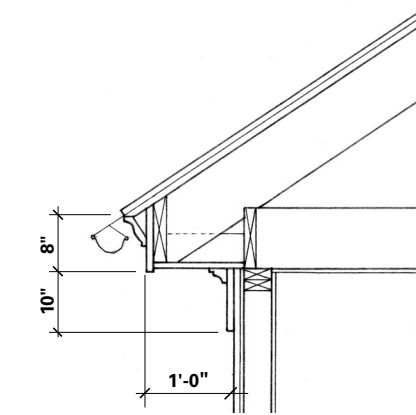
Boxed Eave Return



Boxed Eave Return



Boxed Eave Section

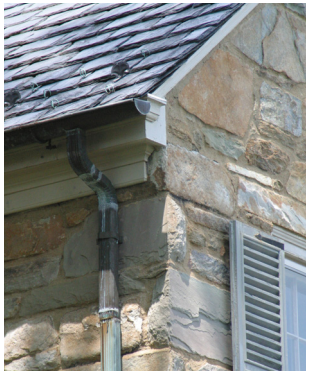


Boxed Eave Section

Wall Section & Eave Details

The first floor of the main body is typically set 2 to 3 feet above the finished grade. The floor-to-ceiling height on the first floor is typically 10 feet. For two-story houses, the second-story floor-to-ceiling height is a minimum of 9 feet.

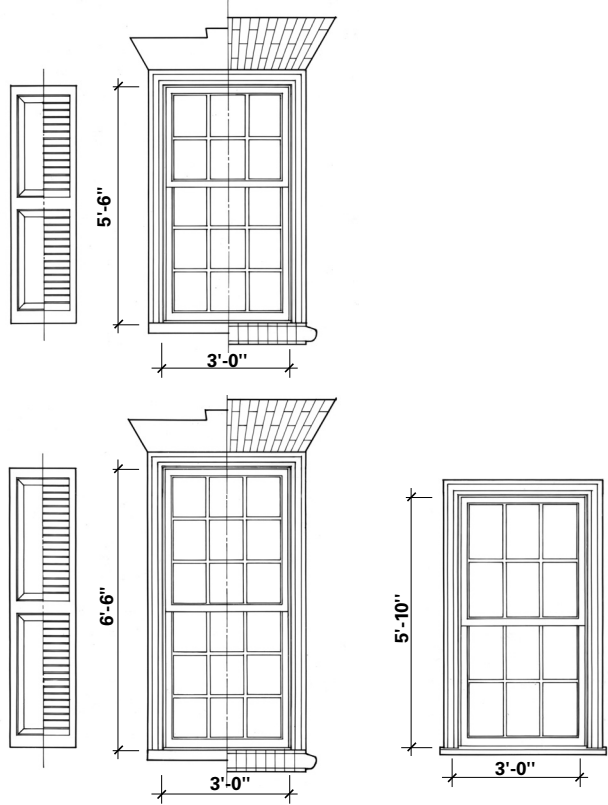
The Highlands Classical is characterized by the vertical proportion of the window and door elements and well detailed classical eaves and cornices. The frieze below the soffit is typically small with profiled mouldings and dentils.



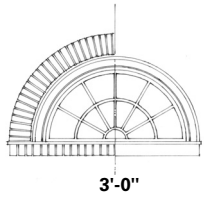
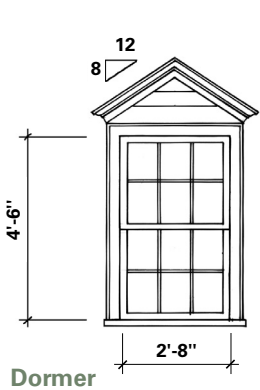
Highlands Classical



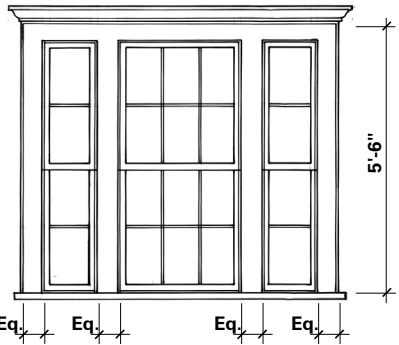
Windows



Special Windows



Accent Window



Triple Window

# Windows & Doors

Windows

Windows are typically vertical in proportion. Two basic window muntin patterns are 9 over 9 or 6 over 6 on the first floor, 9 over 9, 6 over 9 or 6 over 6 on the second floor, double hung with wide trim. Stone or brick lintels are typical.

Special Windows

Special windows include arched accent windows in gabled ends, dormers with gable or hipped roof, and the triple window with broad center sash.

Shutters

Painted, operable shutters are common. Shutter styles can either be paneled or louvered.

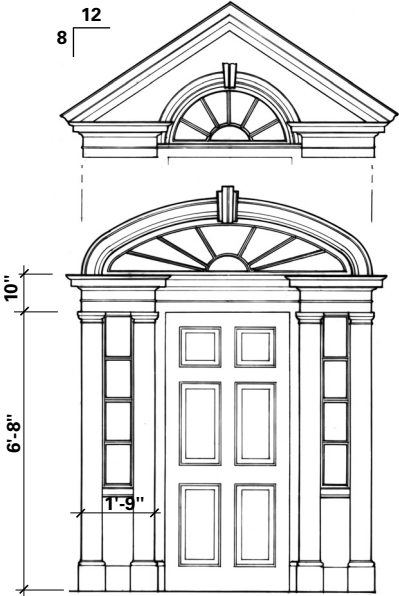
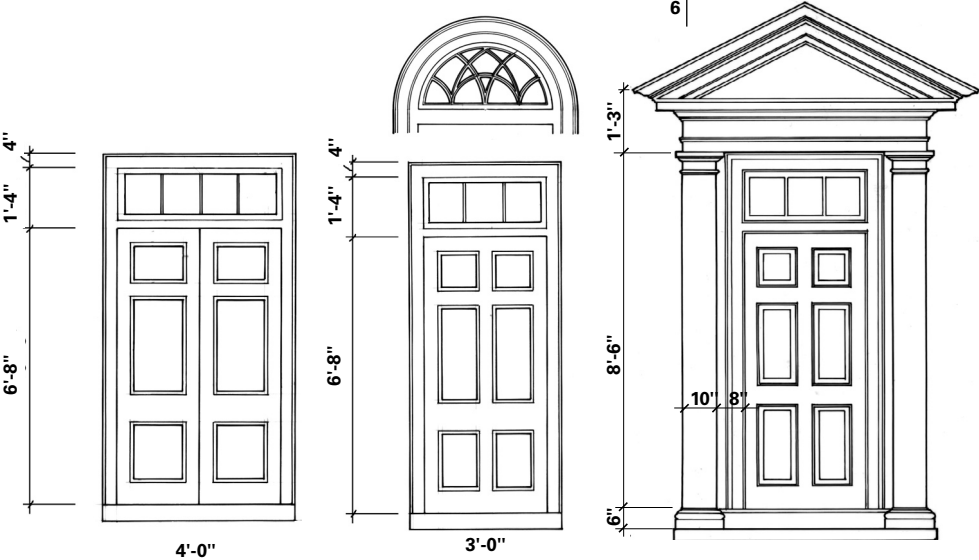
Doors

Doors include six- and eight-panel patterns, typically with sidelights and/or transom surrounds. Overhead garage doors are typically single width for each parking bay and designed to appear as traditional carriage house doors.

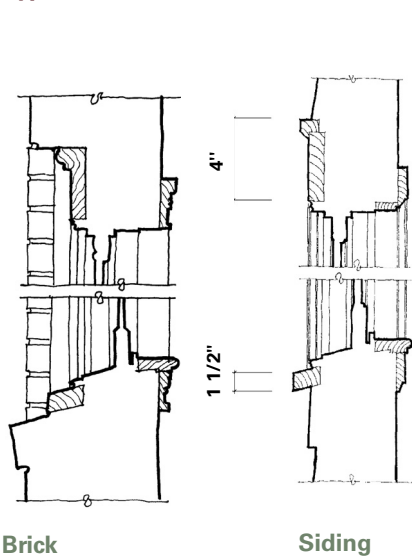
Trim

Windows and doors typically have 4-inch-wide profiled trim.

Doors

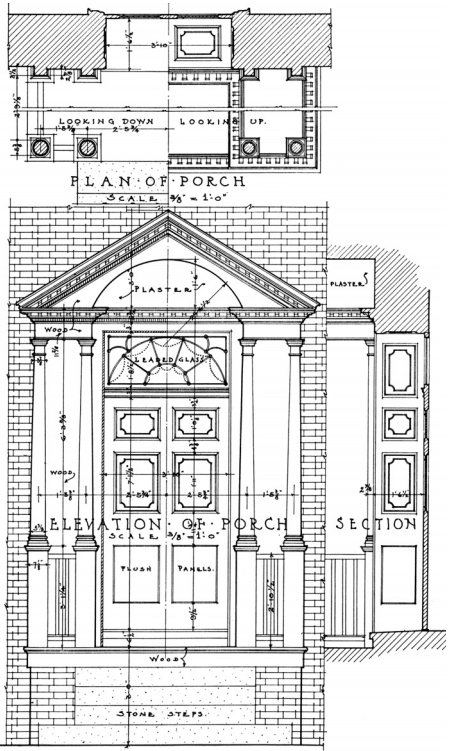
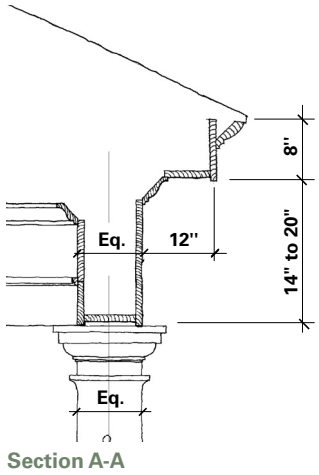


Typical Window Details



# Highlands Classical





Drawing and photograph of porch in New Bern, North Carolina from The White Pine Series of Architectural Monographs

## Porches & Terraces

Porches are typically 8 to 12 feet deep and one or two stories in height with either flat, shallow, gabled or hipped roofs. Column types include 8- to 12-inch-diameter Doric and Ionic order columns and 8- to 12-inch-square box columns. Balusters are typically square, often in a Chippendale pattern.

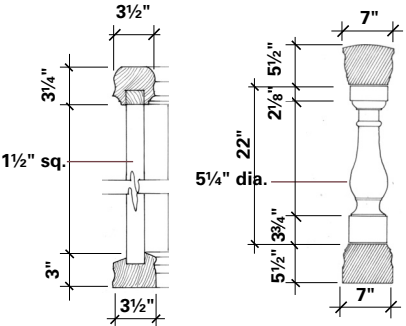
Column heights are typically 8 feet to

9 feet for a single-story porch. Temple front porches typically have classically proportioned entablatures and a 5 in 12 or 6 in 12 roof pitch. Shed or hip porches are typically 3 to 4 in 12 pitch.

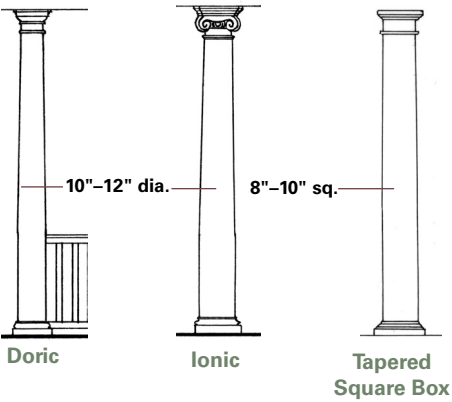
Entry porticos and three-bay front porches are common on Highlands Classical houses. Entry porticos are typically 5 to 8 feet deep.



### Rail Details



### Column Types



# Highlands Classical





# Highlands Classical

## Materials, Colors & Possibilities

### Materials

**Cladding:** Smooth stucco, hand molded brick, random stone, bevel wood siding, fiber-cement siding; 6" exposure typical.



**Roofing:** Standing seam metal (or 5-V *crimp* profile), sawn cedar shakes, or slate (including manufactured slate products), or approved composition shingles with a slate profile.

**Windows:** Wood or cellular PVC with traditional wood window profile, or aluminum-clad wood with brick or stone veneer facades only; true divided light or simulated divided light (SDL) sashes with traditional exterior muntin profiles (7/8 inches wide).

**Trim:** Stucco, stone, cast stone, wood, or composite millwork for built-up sections.

**Columns:** Architecturally correct Classical proportions; wood, fiberglass or composite material.



**Railings:** Milled wood or approved composite material; square balusters.

**Porch Ceiling:** Plaster, beaded-profile plywood or T&G wood boards.

**Soffits:** Smooth surface composition board, T&G wood boards, or fiber-cement.

**Gutters:** Half-round in primed or prefinished metal or copper.

**Downspouts:** Round in primed or prefinished metal or copper.

**Shutters:** Wood or composite; mounted with hardware.

**Foundations:** Brick or stone veneer, or stucco.



**Chimneys:** Stucco, brick or stone.

**Note:** Refer to the Homestead Preserve pre-approved inventory of appropriate components and materials for recommendations and suggestions.

### Colors

**Siding, Windows and Trim:** White; other colors to be selected from the Homestead Preserve Color Palette.

**Roof Materials:** Black, red or natural galvanized for metal; natural for cedar shakes; black, dark gray or a mixed gray/green palette for slate.

**Gutters and Downspouts:** Match trim color, or copper.

**Shutters:** Black, dark green or a color selected from the Homestead Preserve Color Palette.

**Fencing:** Wood or stucco; white or match the house body color; metal to be black or dark green.





*Bracketed American farmhouse from The Architecture of Country Houses by A.J. Downing*



#### Essential Elements of Highlands Farmhouses

- Steeply pitched, front-facing gable roofs.
- Cut wood ornament on eaves and porches
- Clapboard, stone, brick or clapboard siding
- Vertical proportions for windows and doors
- Box bay and cutaway bay windows

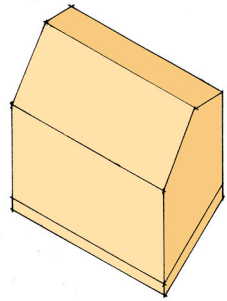
## History & Character

THE HIGHLANDS FARMHOUSE IS BASED on the traditional farmstead settlements found throughout western Virginia valleys and mountains. The building type evolved over time from utilitarian houses with simple, colonial house forms and symmetrical door and window compositions typically in three and five bay compositions. The Highlands Farmhouse emphasizes Carpenter Gothic detailing found in the eave detailing, porch types and vertical door and window proportions. Many of these houses were originally log construction that were reclad and renovated in the mid and late 19th century using Victorian era detailing found in pattern books and catalogs by Andrew Jackson Downing and others. This style is characterized by simple rectangular massing types with moderately pitched roofs often with accent gables featuring steeply pitched roofs. Queen Anne variations add a turreted corner. Another variation is the somewhat more stately Italianate detailing and massing which features simple volumes with shallow pitched roofs and more elaborately detailed cornices and eaves in the Classical tradition. Porch columns are often square with more robust proportions in the Italianate versions.

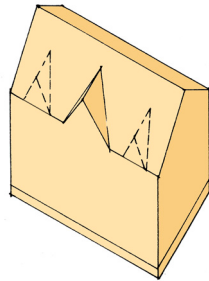
# Highlands Farmhouse



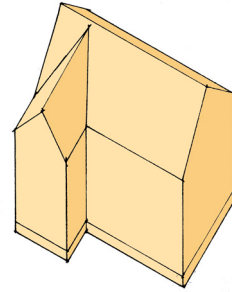
## Massing Diagrams



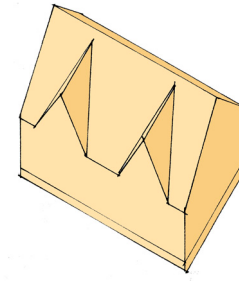
**A** Two-story basic



**B** Two-story basic with front gable

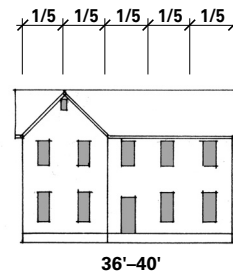
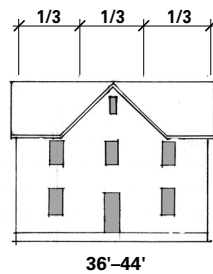
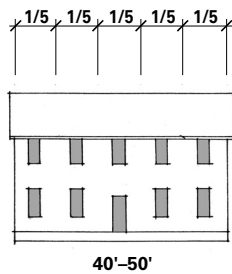
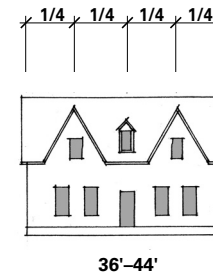
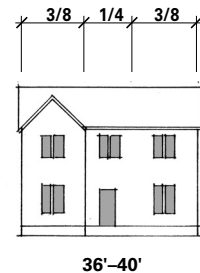
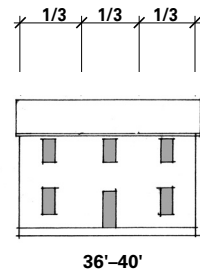


**C** Two-story L-shaped

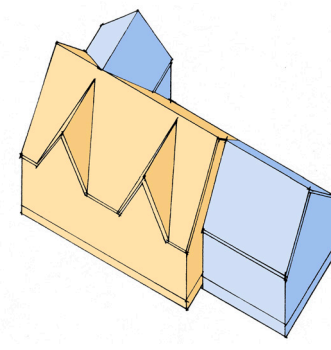
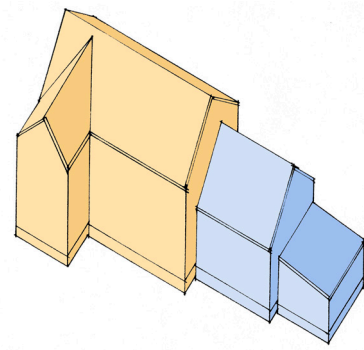
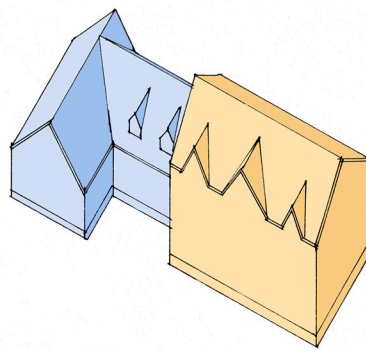
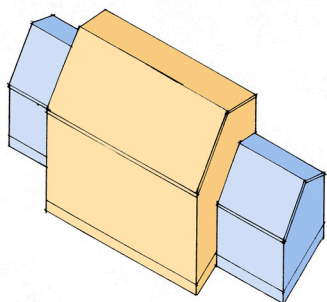


**D** One-and-one-half-story side gable

## Window & Door Compositions



## Possible Massing Combinations



# Massing & Composition

## Massing

### A Two-Story Basic

Side-gabled rectangular volume, often with a medium-pitched gable centered on the front. Italianate versions may be hipped and often have a square tower form centered on the front. Main gable roof pitch is typically 5 to 7 in 12. Italianate versions may be as shallow as 3 in 12. Front gable roof pitch is 7 to 10 in 12. Partial, full or wrapping one-story porches are also permitted.

### B Two-Story Basic with Front Gable

Side-gabled rectangular volume, often with a steep-pitched gable facing centered on the front. Main gable roof pitch is typically 8 to 12 in 12 and front gable roof pitch is 10 to 14 in 12. Partial, full or wrapping one-story porches are common. Two-story side and rear porches are also permitted.

### C Two-Story L-Shaped

Two-story rectangular volume with pitched roof and a front gable which can extend beyond the front facade. Front gables are generally limited to 18 feet in width. The roof pitch is typically 8 to 10 in 12 for the side gable and 10 to 14 in 12 for the front facing gable. Hipped roof Queen Anne versions may have an octagonal or round turret engaged at the front corner opposite the front gable. A one-story full front or wraparound porch with shed or hip roof is most common.

### D One-and-One-Half-Story Side Gable

One and one half-story rectangular volume with steeply-pitched dormers facing the front. Main gable roof pitch is typically 8 to 10 in 12 and front dormers are 14 to 20 in 12. Partial or full porches are common.

## Facade Composition

Highland Farmhouse facade composition is characterized by a somewhat symmetrical and balanced placement of doors and windows. Windows and groupings of windows align vertically between floors, sometimes changing from singles to pairs or groups from one floor to the next. Entrance doors are generally located in the corner of narrow houses and the center of wide houses.

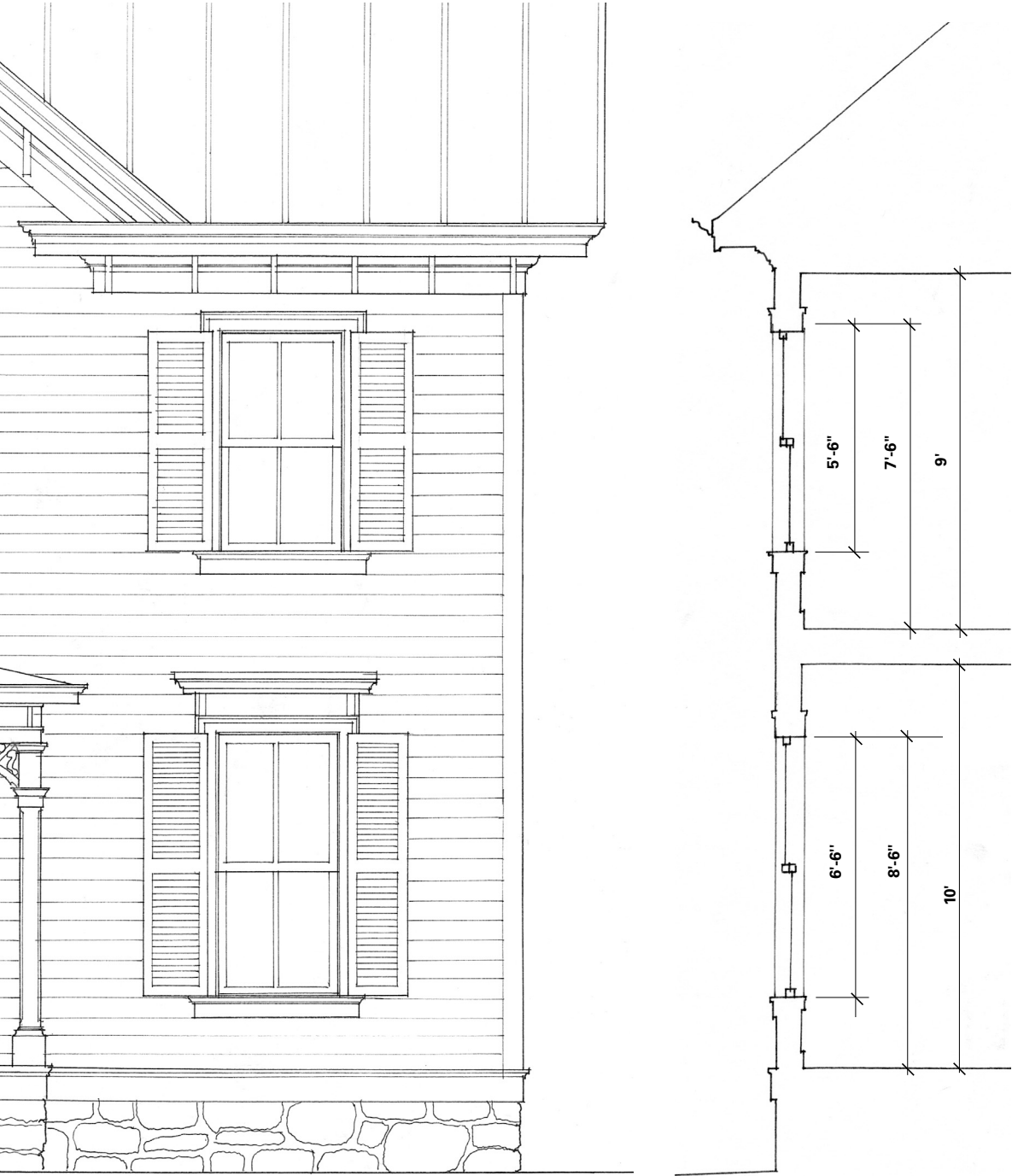
## Combinations

The depth of the main body of the house is recommended to be no more than 26 feet, unless otherwise approved. Complex forms and larger living spaces may be created by combining side and/or rear wings with the main body. Gabled dormers may be added to introduce light into half-story and attic spaces. The architectural character of the attached parts should match that of the main body.

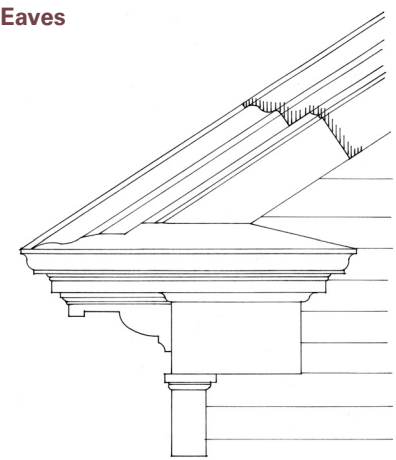
# Highlands Farmhouse



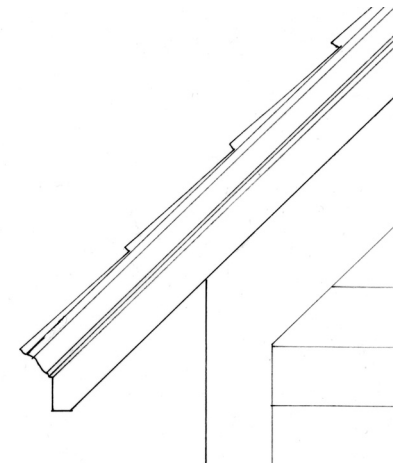
Partial Elevation and Section



Eaves



A Boxed Eave Return



Raked Soffit



Overhanging Eave at Bay Window

Wall Section & Eave Details

Roof

The roof pitch on most Highland Farmhouse houses vary from 8 to 14 in 12. Slate, shingles and metal are appropriate roofing materials.

Eaves

Two eave types define the Highland Farmhouse, one more formal than the other.

**A** Boxed eave, with frieze, the more formal option; with or without brackets which are either horizontal or vertical in proportion.

**B** Boxed eave with sloped soffit, often hipped; at gables, the rake features an overhang with simple vergeboard.

Eave profiles have a 12- to 16-inch frieze board either touching/co-planar with, or at least 8-inches above the window head trim. Eave returns should have metal flashing back to the wall at a maximum slope of 2 in 12.

Wall

For one-story buildings, the minimum floor to ceiling height is 10 feet. For buildings greater than one story, the minimum floor-to-ceiling height is 10 feet for the first floor and 9 feet for the second floor. Windows head heights should be 8 feet 6 inches for the first floor and 8 feet for the second floor. Corner boards should be no less than nominal 5/4 by 6 inches.

Base

The first floor of the Highlands Farmhouse is set one-and-one-half feet above the finished grade. Highland Farmhouses occasionally have an 8-inch skirt board. When foundation vents are used, they should be centered under windows.



Traditional Victorian gable on a clapboard house

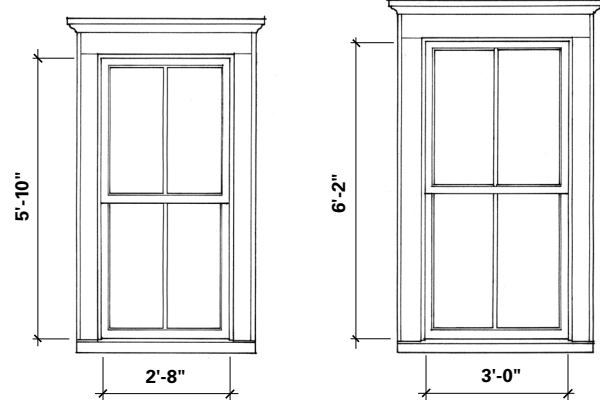


Victorian gable on a stone house

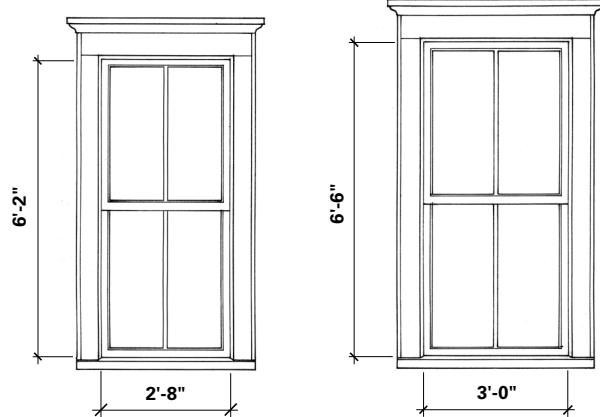
Highlands Farmhouse



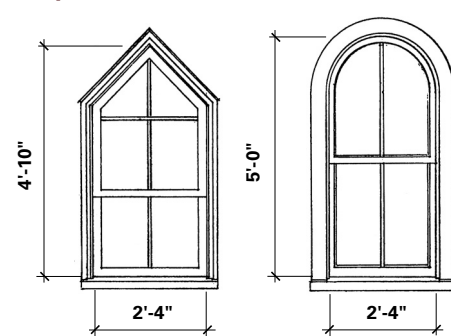
Windows



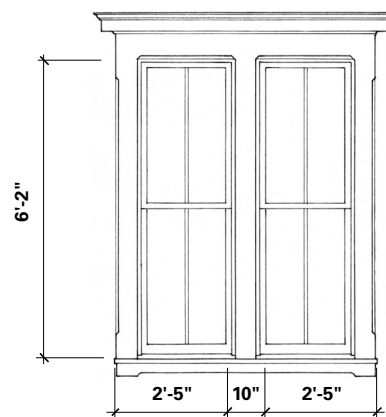
Second Floor  
First Floor



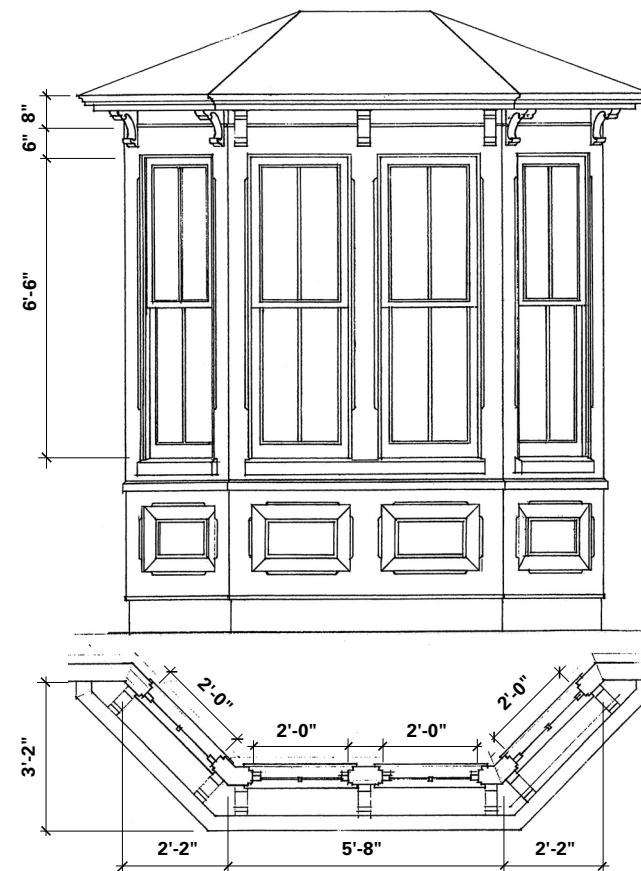
Special Windows



Accent Windows

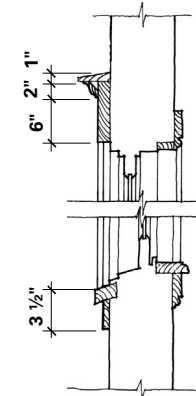
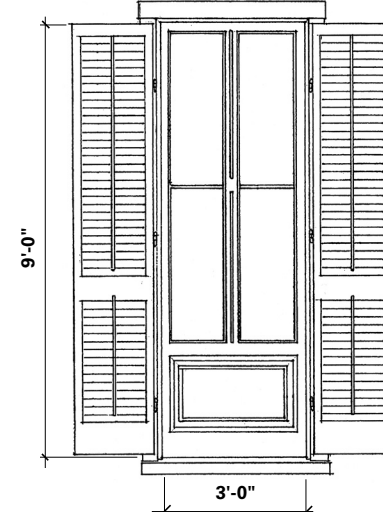
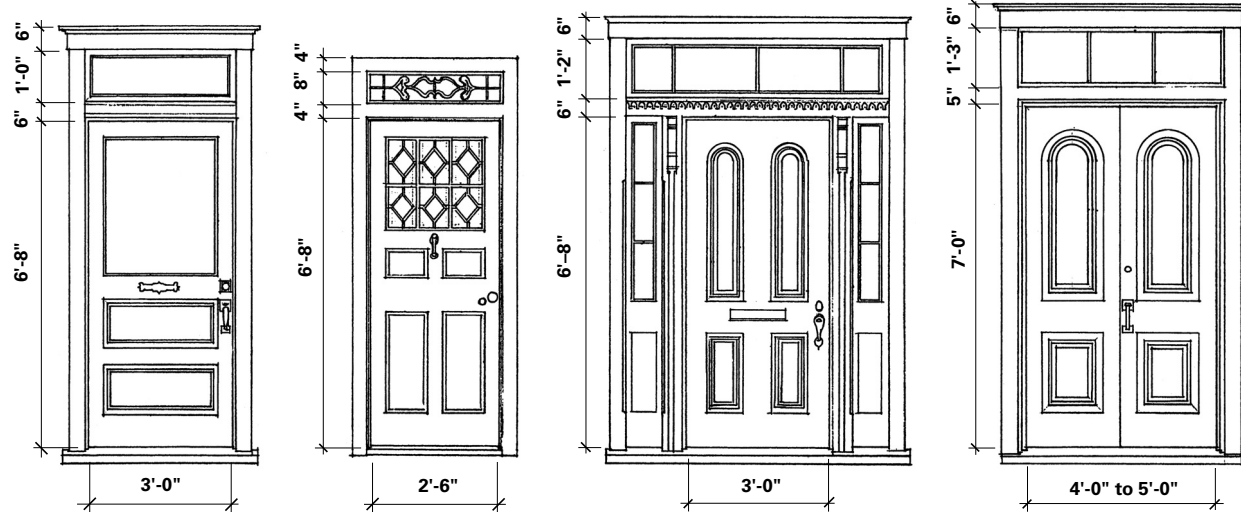


Double Window



Angled Bay Window

Doors



Sill with Apron

## Windows & Doors

### Windows

Windows are typically vertical in proportion and have a 2 over 2 muntin pattern. Panes are always taller than they are wide. Some houses may have windows with rounded upper sashes. Standard windows are double hung.

### Special Windows

Highlands Farmhouses feature round top windows, dormers, box and angled bay windows. Bay windows must project a minimum of 8 inches from the main structure. Bay windows have a continuous base to the ground, and two story bays are common. Paired or bay windows are also used in front of both massing types.

### Doors

Doors on Highlands Farmhouses are vertical in proportion, such as two- and four-panel doors. The maximum width of a pair of double doors is 5 feet for

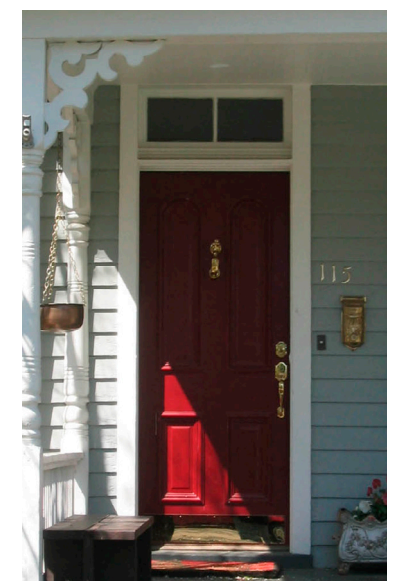
doors at least 8 feet tall, and 4 feet for shorter pairs of double doors, unless otherwise approved. Overhead garage doors are typically single width for each parking bay and designed to appear as traditional carriage house doors.

### Trim

Windows and doors have 6-inch trim with a simple backband profile. Victorian window and door trim carries a decorative crown and cap above; windows may feature an ornate hood. As an Italianate option, trim surround may be treated as a segmental arch.

### Shutters

The use of paneled or louvered shutters adjacent to single windows and fully glazed doors is encouraged. If shutters are installed, they must be operable (or appear to be operable), and sized and mounted to cover the adjacent window or door when closed.



# Highlands Farmhouse

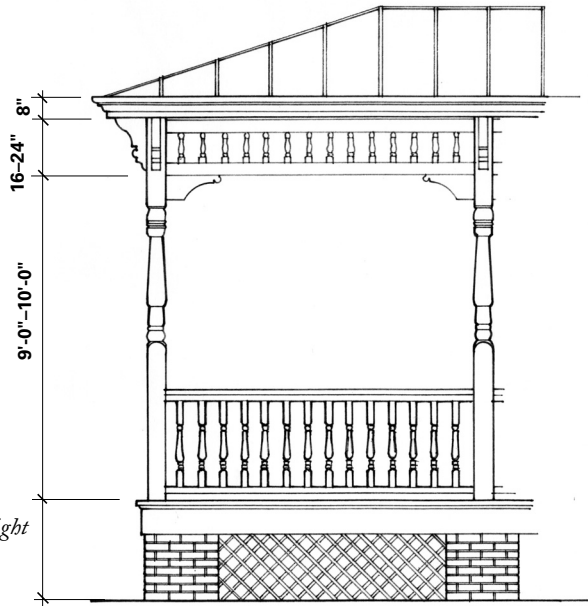
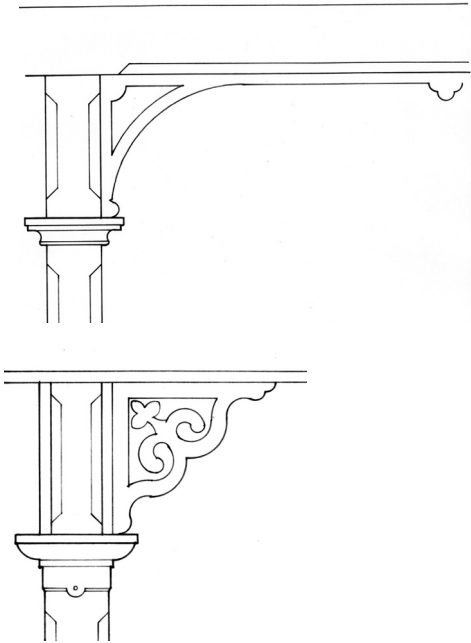


Portico and Porch Elevations



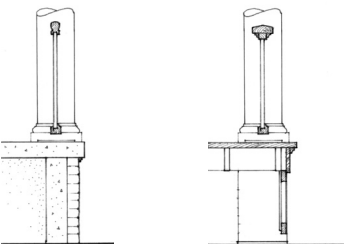
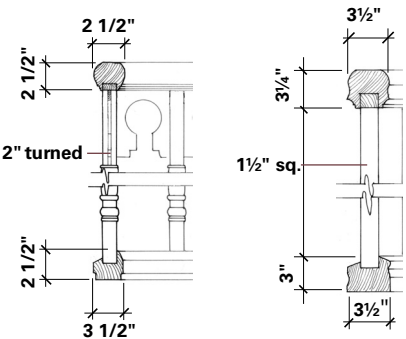
Partial Porch Elevation

Typical Wood-Cut Details



Porch with Side Steps

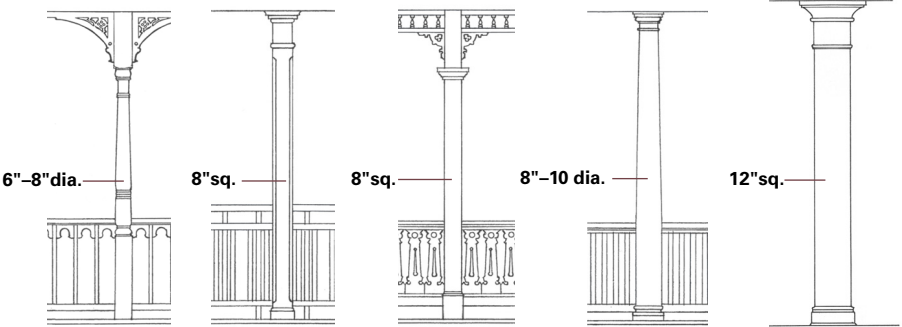
Rail Details



Masonry

Frame

Column Types



Turned

Chamfered Square

Square

Slender Doric

Italianate Boxed

Porches

Porch Roofs & Eaves

Porches are typically 8 to 12 feet deep and one or two stories tall with flat, shed, or shallow hipped roofs. Shed or hip porches have a 2 in 12 to 4 in 12 pitch. Exposed rafter tails are typically 2 x 8 and occur 14 to 16 inches on center. Entablatures are generally classically proportioned and detailed.

Columns & Railings

Column types include turned columns from 6 to 8-inch-square stock, 8-inch-square or chamfered posts, and 8- to 10-inch-diameter Doric columns. Some Italianate porches have 12-inch square box columns. First floor columns are 9- to 10-feet tall, while second floor columns are 8- to 9- feet tall. Turned or square balusters are spaced no more than 4 inches apart. Porch bays should be ver-

tically proportioned. Flat cut ornamental balusters are also encouraged, with square or turned columns. Square pattern lattice is used as infill between piers at the foundation.

Brackets

Brackets range from simple designs cut from boards, to more elaborate turned wood or jigsaw-cut openwork. Brackets are a minimum of 2 inches thick.

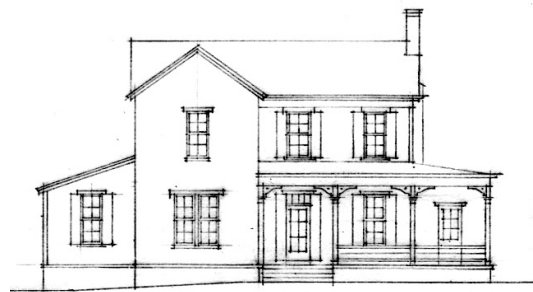
Porch Location

Full front porches are encouraged on Highlands Farmhouses. Porches can be used to wrap the corner of a house, or fill in the void created by an L-shaped plan. The minimum porch depth is 8 feet.



Highlands Farmhouse





# Highlands Farmhouse

## Materials, Colors & Possibilities

### Materials

**Cladding:** Stucco, brick, cut stone, wood or fiber-cement siding.

**Roofing:** Standing seam metal (or '5-V crimp' profile), slate (including manufactured slate products), or approved composition shingles with a slate profile.

**Windows:** Wood or cellular PVC with traditional wood window profile, or aluminum-clad wood with brick or stone veneer facades only; true divided light or simulated divided light (SDL) sashes with traditional exterior muntin profiles (7/8 inches wide).



**Trim:** Stucco, stone, cast stone, wood, or composite millwork for built-up sections.

**Columns:** Turned or square, or tapered round with architecturally correct Classical proportions, in wood, fiberglass or composite material.

**Railings:** Milled wood or approved composite material. Straight or turned balusters.



**Porch Ceiling:** Plaster, beaded-profile plywood or T&G wood boards.

**Soffits:** Smooth surface composition board, T&G wood boards, or fiber-cement.

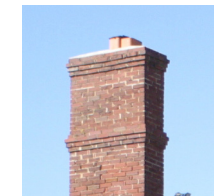
**Gutters:** Half-round in primed or pre-finished metal or copper.

**Downspouts:** Round in primed or pre-finished metal or copper.

**Shutters:** Wood or composite; mounted with hardware to appear operable.

**Foundations:** Brick or stone veneer.

**Chimneys:** Stucco, brick or stone.



**Note:** Refer to the Homestead Preserve pre-approved inventory of appropriate components and materials for recommendations and suggestions.

### Colors

**Siding, Windows and Trim:** White; other colors to be selected from the Homestead Preserve Color Palette.

**Roof Shingles:** Typically black or dark gray.

**Gutters and Downspouts:** Match trim color or copper.

**Shutters:** Black, dark green, or a color selected from the Homestead Preserve Color Palette.

**Fencing:** Wood is to be white; metal is to be black or dark green.





*Cottage from Downing's The Architecture of Country Houses*



#### Essential Elements of the English Romantic

- Rectangular massing with simple roof planes
- Broad expanses of wall with few door and window penetrations
- Low eaves with modest overhang
- Apparently random window and door locations
- Simple detailing

## History & Character

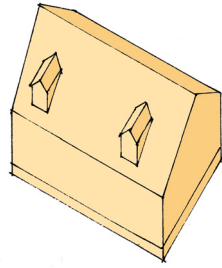
ENGLISH COUNTRY HOUSES ARE BASED on the rural cottages found throughout the English countryside. This architecture developed in response to the needs of the small farm or manor. The simple forms of these houses respond to the natural environment and the availability of local building materials, principally stone, brick and heavy timber framing. Massing is characterized by steeply pitched roofs which were originally thatch and over time were reclad with slate shingles. Many houses will have simple rectangular massing forms with gable or hipped roofs. Many houses have a cross gable and many have slightly projecting second floors either continuous across the front facade or as gable end bays. Originally, the rural houses included spaces for animals. This type evolved over time expanding living spaces with animals housed in a series of out buildings. The evolution of this house type features additions that 'telescope' from the main body. Many of the early houses had large open hearths and multiple chimneys. The heavy masonry walls are punctuated with broad proportioned windows in a somewhat freeform pattern. Sash windows are combined in the same facade with casement windows that are paired or in triple combinations.

The roots of the English Cottage and Country House can be found in Bath County. The simple forms of rural cottages or the later country houses have a direct link to this original form.

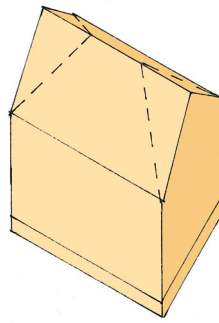
# English Romantic



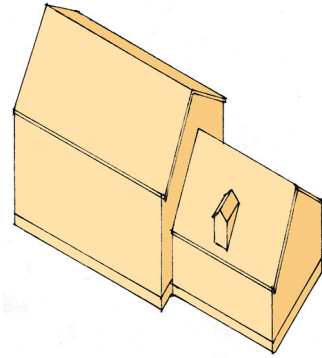
### Massing Diagrams



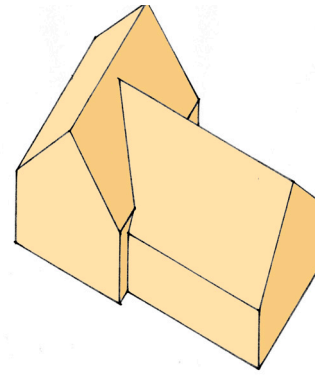
**A** *One- or one-and-one-half-story basic*



**B** *Two-story basic*

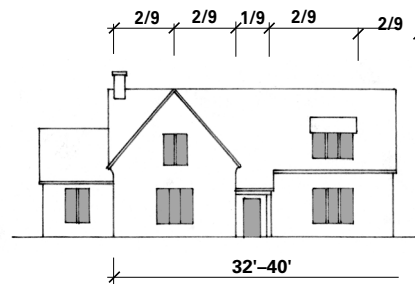
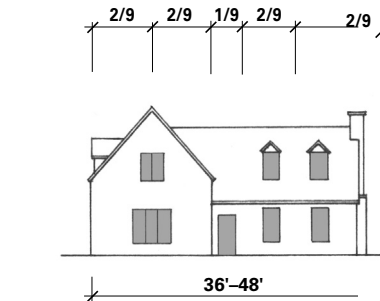
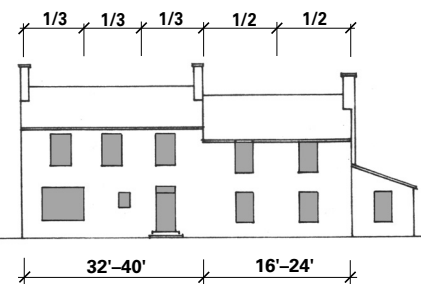
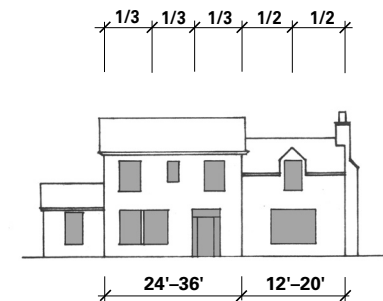
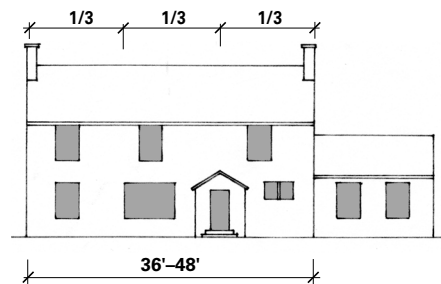
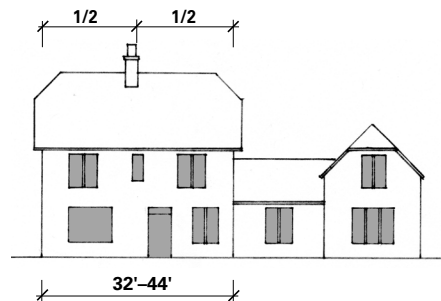
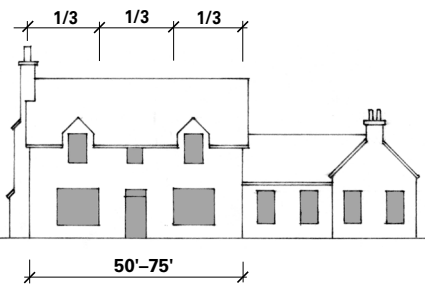
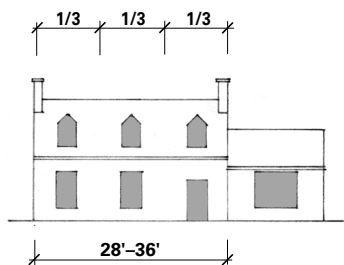


**C** *Two-story telescoping*

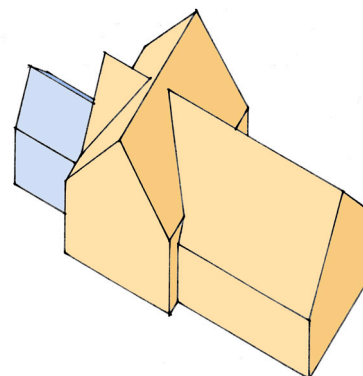
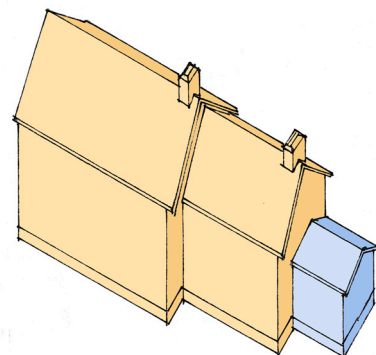
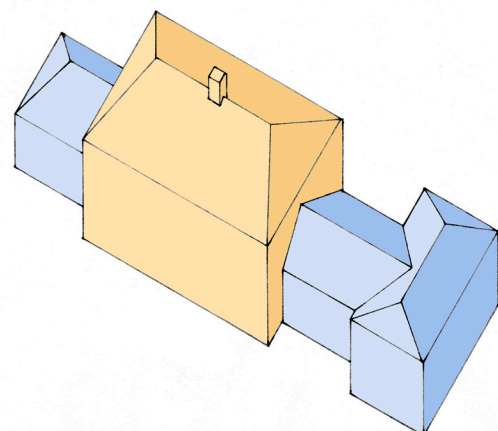
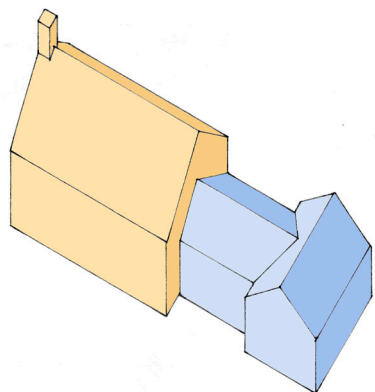


**D** *One-and-one-half- or two-story cross gable*

### Window and Door Compositions



### Possible Massing Combinations



# English Romantic

## Massing & Composition

### Massing

The English Romantic style consists of multiple volumes combined with varying eave heights, deeply pitched roof lines, and simple, unadorned chimneys.

#### **A One- or One-and-One-Half-Story Basic**

Two-story rectangular box with gable or hipped-roof form. Dormer accents can be gable, hip, or shed-roofed. A two- or three-bay facade composition is typical.

#### **B Two-Story Basic**

Two-story main body, gable or hipped roof, ridge parallel to street. Roof pitch does not usually exceed 6 to 12. The main body is typically “book ended” by chimneys.

#### **C Two-Story Telescoping**

Two-story main body, gable or hipped roof volume paired with either a two-story mass having a lower eave height or a one-and-one-half-story mass. Often the larger mass has a higher floor level than the other volumes.

#### **D One-and-One-Half- or Two-Story Cross Gable**

One-and-one-half-story main body with roof ridge parallel to the street, and a one-and-one-half- or two-story front-facing gable element anchoring one end to form a **T**. Both massings can be in the same plane to form a gable-**L**. Small porches are often nestled at the intersection of the two forms.

### Facade Composition

English Romantic facade composition is characterized by a balanced placement of doors and windows, although slight variations usually occur to accommodate the floor plan. Entrance doors can be located in the center of the composition, off center, or at the end. Windows are typically arranged in a combination of single openings, pairs and/or strips of three or more, and often do not align vertically from floor to floor. Chimneys are typically located on the end walls.

### Combinations

The character of these houses is enhanced by the addition of wings that, through massing or detailing, appear to have been added over time. Often, the ultimate assembly of pieces is informal and asymmetrical. The architectural character of the attached parts should be in keeping with the character of the main body but can vary in material. The depth of the main body of the house is recommended to be no more than 26 feet, unless otherwise approved. Most wings and bodies are one room deep; wings are from 12 to 18 feet in width.

There is a wide variety of roof forms: gable, hip, ‘clipped’ gable, and shed. In selective locations, the roof forms may be intermixed.

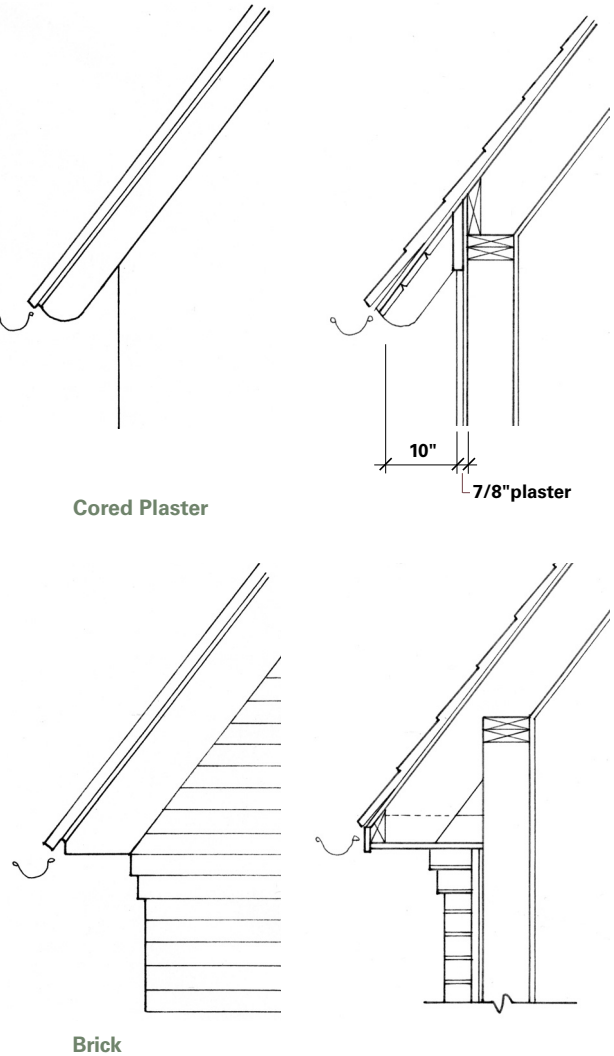
In gable-ended massing types, roof planes are primarily interrupted by gables (same pitch as roof) and accented with small dormers. Gable ends generally have no eave/overhang.



Partial Elevation and Section



Eaves



# Wall Section & Eave Details

Vertical Section

The first floor of the main body is generally on grade – elevated just enough to keep rainwater out. The floor-to-ceiling height on the principal floor is typically 9 feet. The secondary floor-to-ceiling height is 8 feet.

Eave Details

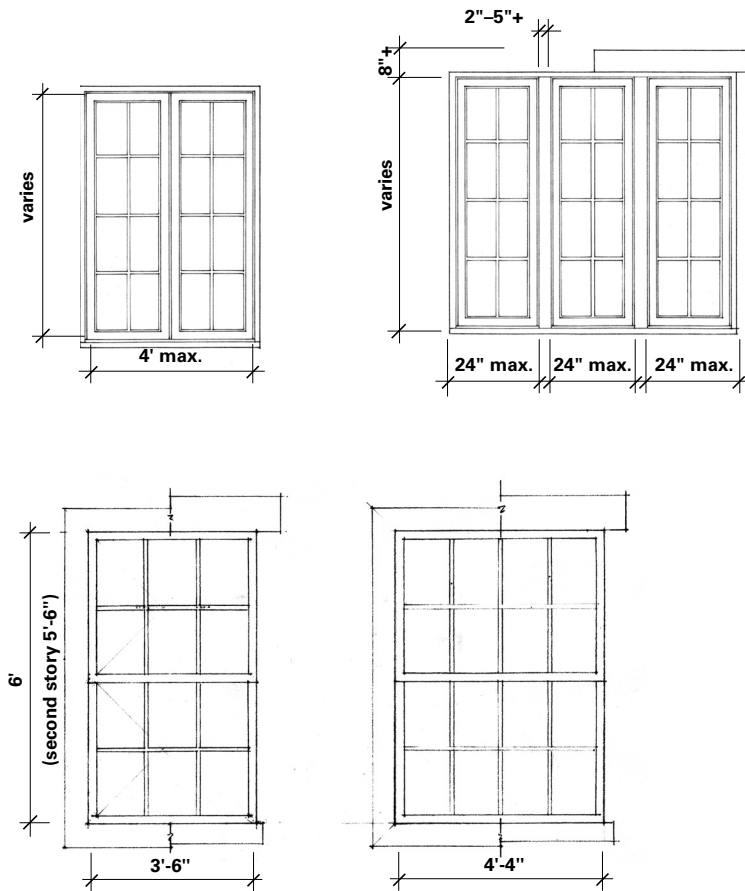
Overhang/eaves are generally shallow (0 to 10 inches). Eaves may be constructed of either building wall material (plaster, brick, stone) or wood.



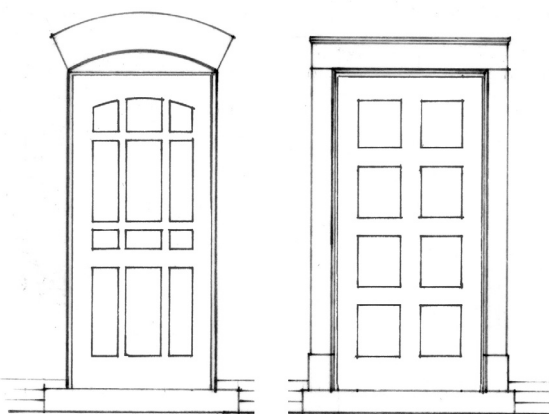
# English Romantic



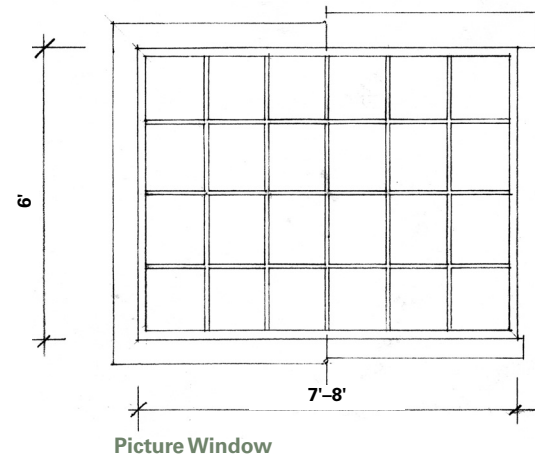
## Windows



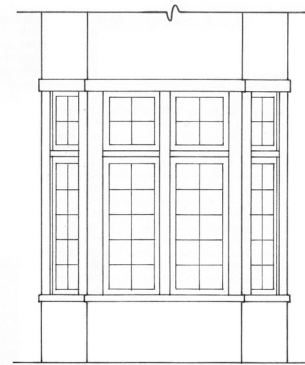
## Doors



## Special Windows

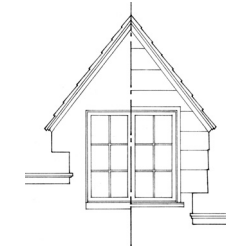


Picture Window

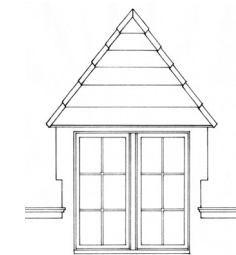


Bay Window

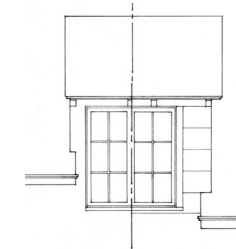
## Dormer Types



Gable



Hip



Shed

# Windows & Doors

## Windows

Tall, relatively narrow casement windows in groups of two, three, four, or five separated by posts or mullions. Double-hung windows also occur in singles or groups of two or three, separated by posts. Double-hung windows typically have a 6 over 6 muntin pattern. The size of windows should diminish with each succeeding story. All windows shall have a divided-light appearance.

## Special Windows

Special windows include bay windows, oriel windows, dormer windows, and small accents. Bays are constructed of a light material such as wood, supported by corbeling or brackets, and composed of casement windows with a divided-light appearance. Dormers should be the shed or gabled type, typically with paired or tripled casement windows. Small decorative accent windows are encouraged, especially in service rooms, powder rooms, closets, and halls.

## Shutters

Plank/board or panel style shutters are encouraged as an accent. Wrought iron lift-off hinges, shutter dogs, and latches are also encouraged. Shutters are not permitted at half-timbered areas.

## Doors

Plank/board or panel style single door, often with a round or arched top and wrought iron accents. As with windows, doors should be recessed as deeply as possible. Cast stone detailing around doors is encouraged. Plaster surrounds are acceptable. Overhead garage doors are typically single width for each parking bay and designed to appear as traditional carriage house doors.

## Trim

Ornamental cast stone or wood lintels and sills are encouraged at both masonry window and door openings. Stucco should typically return to the window – eliminating the need for most trim.



# English Romantic





# English Romantic

## Porches & Chimneys

**Porches**  
Although not a featured element of the English Romantic style, porches and portes cochère were common on larger houses. Porches should be understated and integrated with building mass, and focused at entrances and side wings. They are typically 6 to 10 feet deep, and feature post-and-beam construction, shed roofs, and rough-sawn clapboard siding in gables. Arched braces between

posts and beams are encouraged. Covered patios and loggias may be constructed of either post-and-beam or masonry.

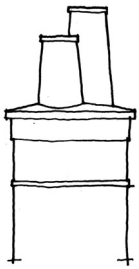
**Chimneys**  
Chimneys are a key element in the composition of the elevation. They should appear large and asymmetrically massed. A wide variety of profiles at the top is encouraged.



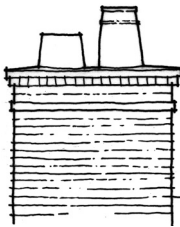
Entrance and porch



### Chimney Caps



Stucco

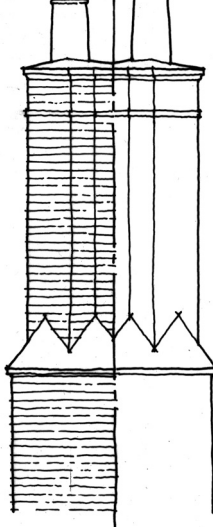


Brick

### Chimney Configurations



Stone



Brick / Stone

Plaster



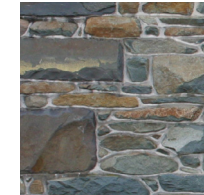


# English Romantic

## Materials, Colors & Possibilities

### Materials

**Cladding:** Stucco with handmade/formed appearance (no skip-trowel or similar and no plaster beads), pebble-dash stucco, brick, or stone.



**Roofing:** Flat clay tile, cedar shakes, slate (including manufactured slate products), or standing seam metal.

**Windows:** Wood or cellular PVC with traditional wood window profile, or aluminum-clad wood with brick or stone veneer facades only; true divided-light or simulated divided-light (SDL) sashes with traditional exterior muntin profiles (7/8" wide).

**Columns:** Square posts or tapered round Doric with architecturally correct proportions; wood, fiberglass or composite material.



**Trim:** Stucco, stone, cast stone, brick, wood, or composite millwork for built-up sections.

**Porch Ceiling:** Plaster or plank-and-beam.

**Eaves:** Wood sheathing with 2x, 3x, or 4x rafter tails; plaster molded and corbelled brick eaves are also permitted.

**Gutters:** Half-round in primed or pre-finished metal or copper.

**Downspouts:** Round in primed or pre-finished metal or copper.

**Shutters:** Plank/board or panel type; wood or composite; mounted with hardware.

**Foundations:** Stucco, brick, or stone veneer.

**Chimneys:** Stucco, brick, or stone.



**Note:** Refer to the Homestead Preserve pre-approved inventory of appropriate components and materials for recommendations and suggestions.

### Colors

**Stucco:** White or color as selected from the Homestead Preserve Color Palette.

**Roof Materials:** Red, red/brown or green for clay tile; natural for cedar shakes; green/gray, green/brown, or black for slate; black for standing seam metal.

**Windows:** White or butter yellow.

**Trim / Shutters:** Dark stain or color as selected from the Homestead Preserve Color Palette.

**Gutters and downspouts:** Match color of eave, stucco or trim.





*Arts & Crafts house on a sloping site as illustrated in Comstock's Cottages, 1890*



*Mountain Arts & Crafts house*

#### Essential Elements of the Highlands Arts & Crafts

- Continuity of roof and wall surfaces
- Deep, broad porch elements with expressive structural components
- Strong horizontal lines such as eaves, water tables and window heads
- A mixture of materials such as stone, shingles and siding in horizontal bands
- Asymmetrical window and door compositions

## History & Character

HIGHLANDS ARTS & CRAFTS HOUSES are derived from the uniquely American expression of architectural design for country houses termed *Shingle Style*, that originated in the northeastern region – Massachusetts, Rhode Island, Connecticut, New York, and Maine – from about 1878–1916. Architects began to look to early American Colonial houses that were simple, wood-shingled forms added onto in an organic way over time. The intention was to develop a uniquely American style for country houses and cottages that reinforced the notion of a more informal, leisure use. Notable practitioners included McKim, Mead and White, Henry Hobson Richardson, and the Boston firms of Peabody & Stearns, Arthur Little, and Bruce Price. Early cottage settlements, such as Tuxedo Park in New York, serve as a good example of *Shingle Style* architecture.

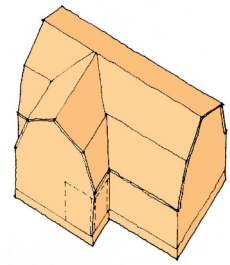
In the Allegheny Highlands, dependence on the local sawmill for building materials, use of locally available stone and hand sawn shingles, and the widespread application of post and beam construction led to a distinct Appalachian variant of the *Shingle Style* which reflected the hand craft base of the builders.

A second source of influence for this style is the Arts & Crafts movement that began in England around 1860. With its use of natural materials, expressive structural elements and craft or artisan materials and furnishings, it influenced the American architecture community in the late 1800s and early 1900s.

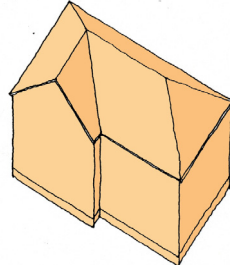
# Highlands Arts & Crafts



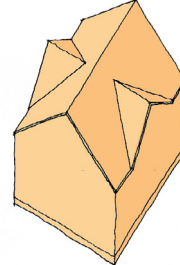
## Massing Diagrams



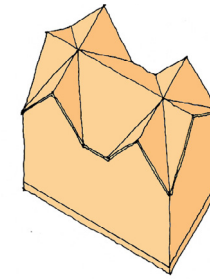
**A** Cross-gambrel



**B** Gable L

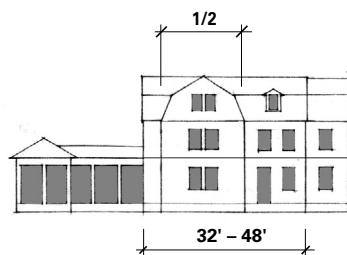
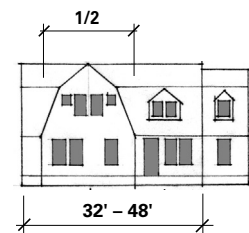


**C** Front gable

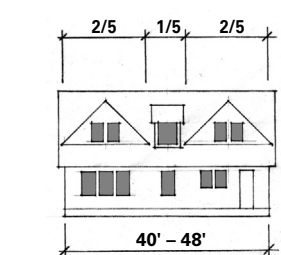
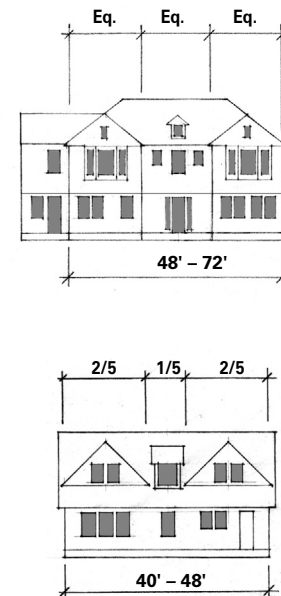
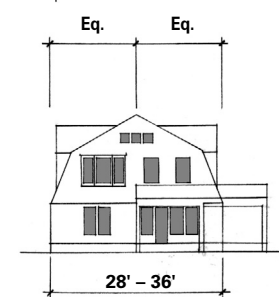
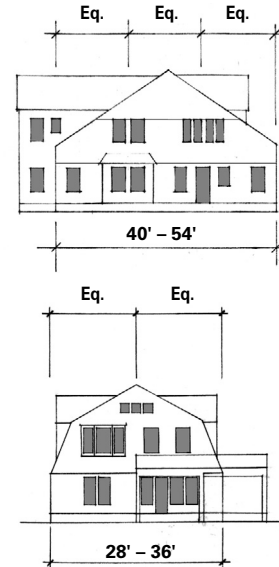
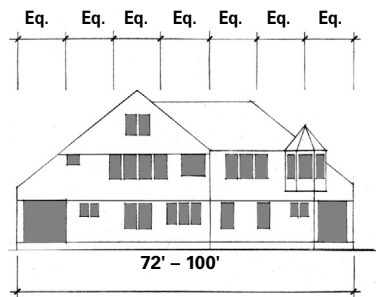
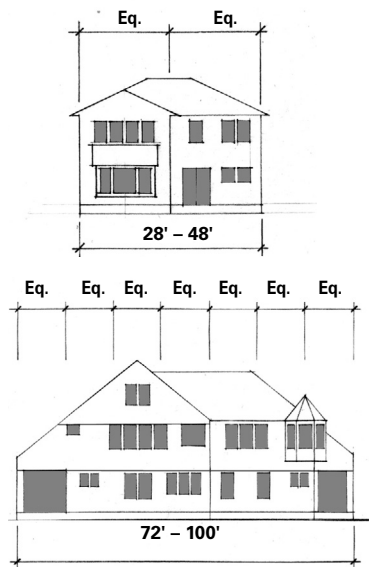


**D** Double gable

## Window and Door Compositions



Possible Massing Combinations



# Massing & Composition

## Massing

### A Cross-Gambrel

L- or T-shaped volume with a deep gambrel roof containing a second or third story. Front-facing gambrel end acts as the defining element. Integral porches are commonly cut into the front-facing gambrel volume.

### B Gable L

L-shape volume with a front-facing gable end. Often an in-line gabled porch or wing added to the front leg of the L to create an asymmetrical form. Porches may also be located between the wings of the L.

### C Front Gable

Rectangular volume with a broad triangular gable or gambrel facing forward. Integral front porch that ranges from half to the full length of the front facade is typical.

### D Double Gable

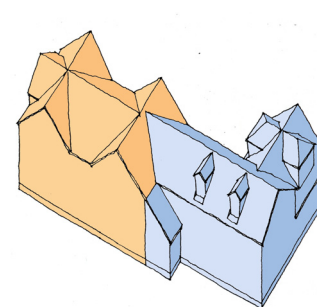
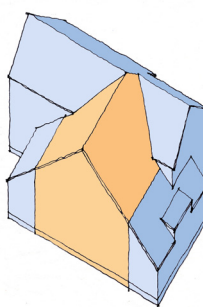
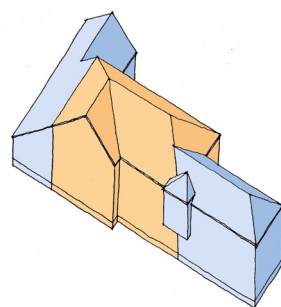
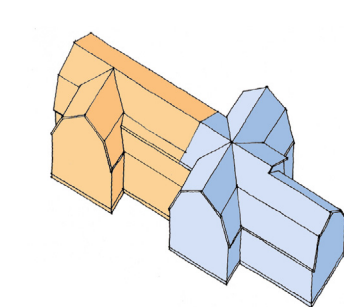
Rectangular volume with a central bay flanked by two front-facing gable ends. Full-facade porches nearly always accompany this massing type.

## Facade Composition

The Highlands Arts & Crafts style is characterized by an orderly yet asymmetrical facade composition. Windows are typically arranged in a combination of single openings, pairs and/or strips of three or more, and often do not align vertically from floor to floor. Horizontal regulating lines typically occur at the floor levels. Porches typically penetrate the house volume and are sheltered by the gable or gambrel roof.

## Combinations

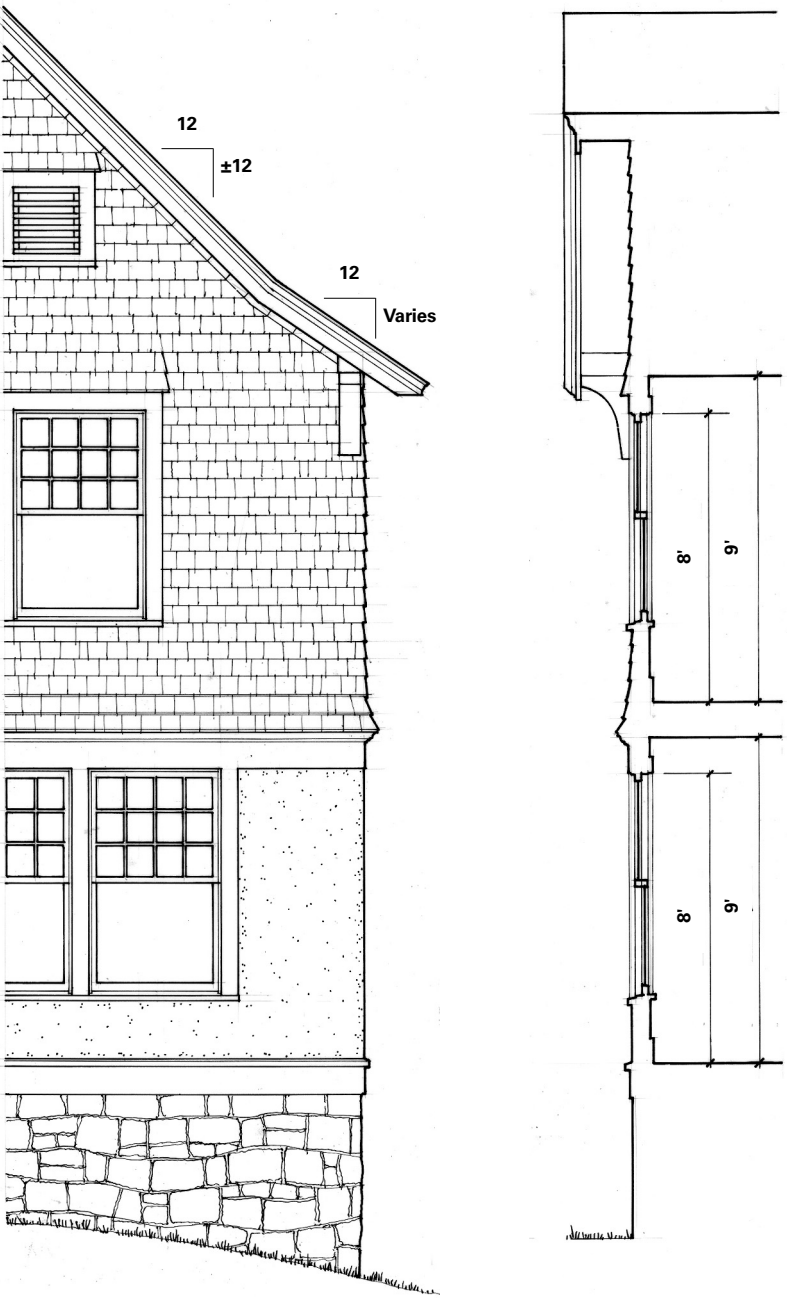
The depth of the main body of the house is recommended to be no more than 26 feet, unless otherwise approved. Complex forms and larger living spaces may be created by combining side and/or rear wings with the main body. Gabled or shed dormers may be added to introduce light into half-story and attic spaces. The architectural character of the attached parts should match that of the main body.



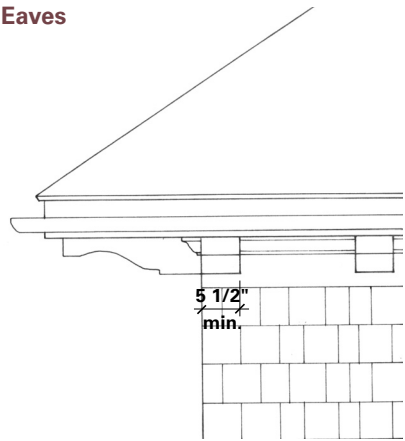
# Highlands Arts & Crafts



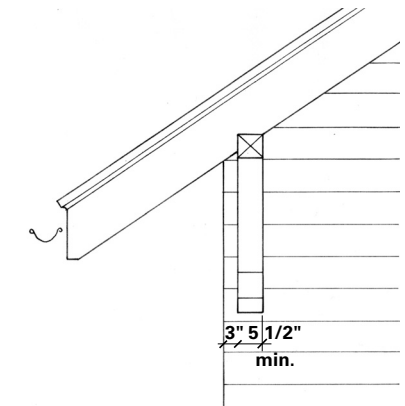
Partial Elevation and Section



Eaves



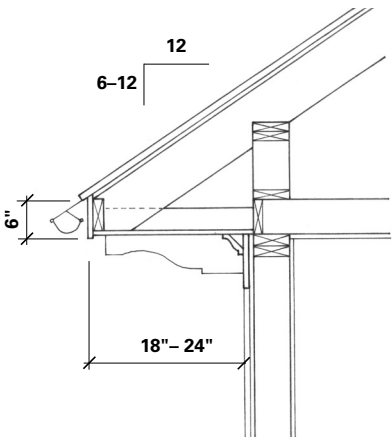
Boxed Eave Return Detail



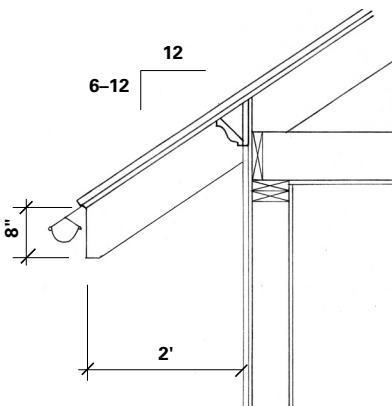
Open Eave Rake Detail



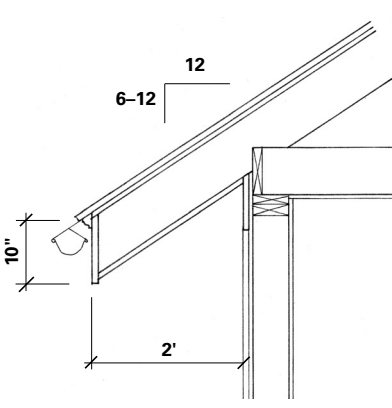
Sloped Boxed Eave Rake Detail



Boxed Eave Section



Open Eave Section



Sloped Boxed Eave Section

Wall Section & Eave Details

The first floor of the main body is typically set between two and three feet above the finished grade. The floor-to-ceiling height on both the first and second floor is 9 feet.

Two eaves are characteristic of the Highlands Arts & Crafts style: a shallow boxed eave with a narrow profiled fascia, and a deep overhanging eave with exposed rafter tails or sloped soffit. These types of eaves are pictured here. The Highlands Arts & Crafts may also have a simplified Colonial Revival-era character. This is achieved by using a

broad, flat eave with shallow brackets on the house and the porch in concert with Classical Doric or Tuscan order columns.

Two-story main bodies are often characterized by either a change of material, trim application, or change of color between the first and second floor, near the sill line of the second-floor windows or the head of the first-floor windows. Stone, brick or stucco veneered foundation walls are sometimes exposed a full story above grade on steeply sloping sites.



Boxed eave

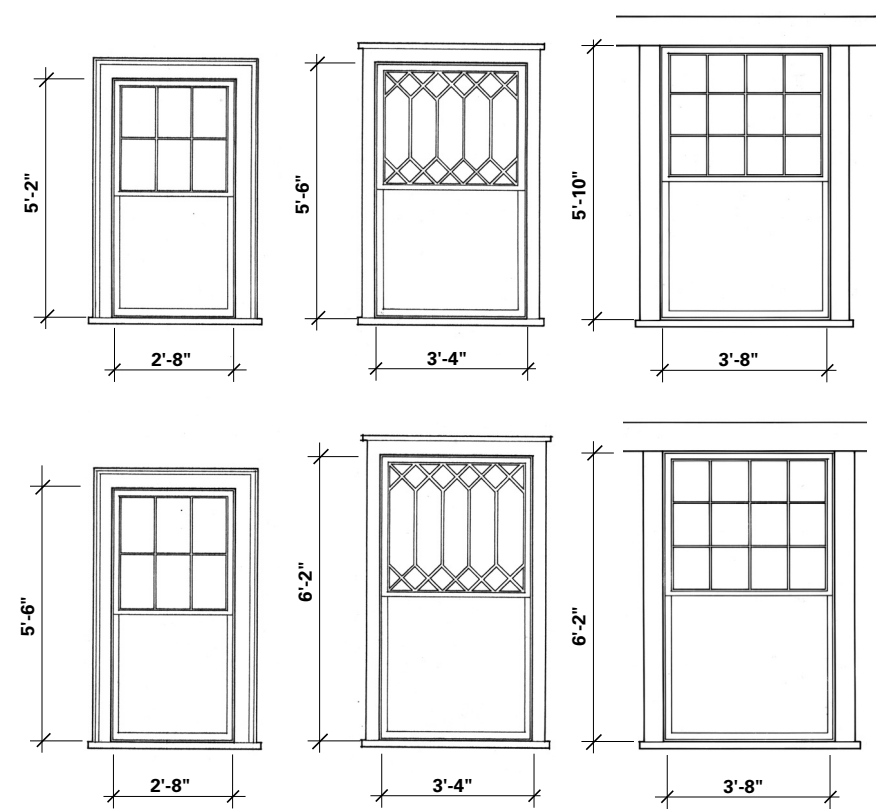


Open eave

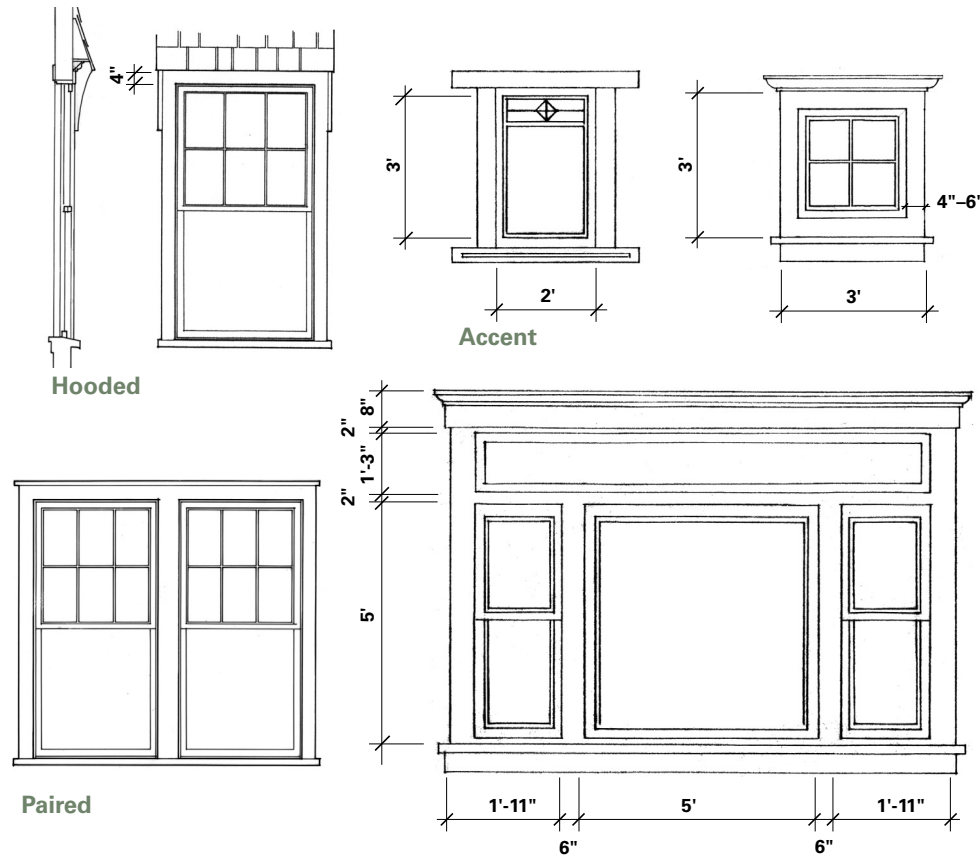
Highlands Arts & Crafts



Windows



Special Windows



Windows & Doors

Windows

Windows on the first floor are usually arranged in combinations of single openings, pairs and/or strips of three or more, sometimes including large picture windows. Windows on the second floor may be single, paired or triples. Often special accent windows are incorporated into the composition. Window pane patterns include 6 over 1, 12 over 1 and diamond patterned top sash. Dormer windows are commonly ganged together.

Special Windows

Special windows include angled bay windows, picture windows and small, square and rectangular accent windows. Picture windows are typically paired with sidelights and transoms with a special pane pattern or stained glass upper sash.

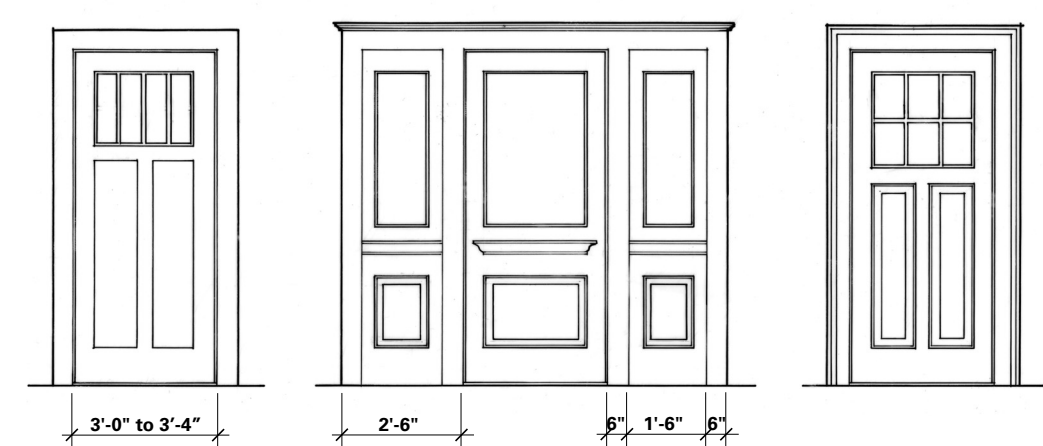
Doors

Highlands Arts & Crafts doors are often stained wood with either wood plank design or panel doors with integrated transoms. Doors may have decorative, beveled glass sidelights and transoms in Arts & Crafts patterns. Overhead garage doors are typically single width for each parking bay and designed to appear as traditional carriage house doors.

Trim

Standard trim is a flat board, typically 5¼ inches wide, with a 2x head that extends 1 inch beyond the jamb trim to the sides, and a 2x sill that extends ½ inch. A more formal casing with a backband can also be used.

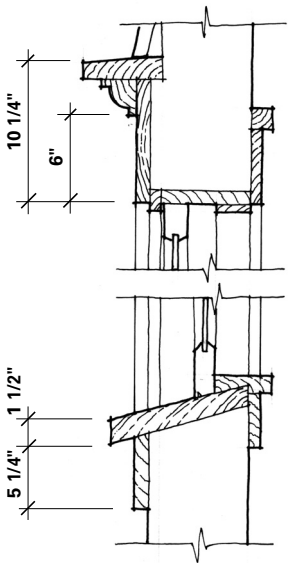
Doors



Dormers



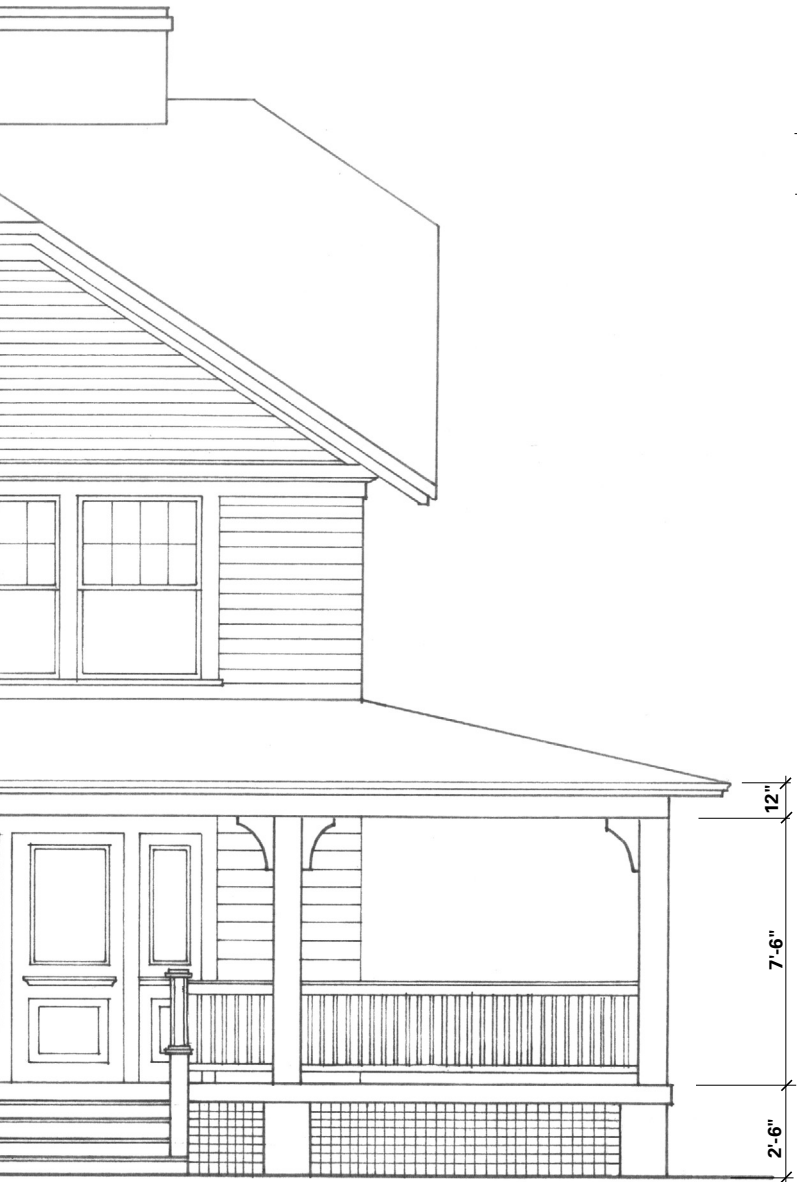
Typical Window Detail



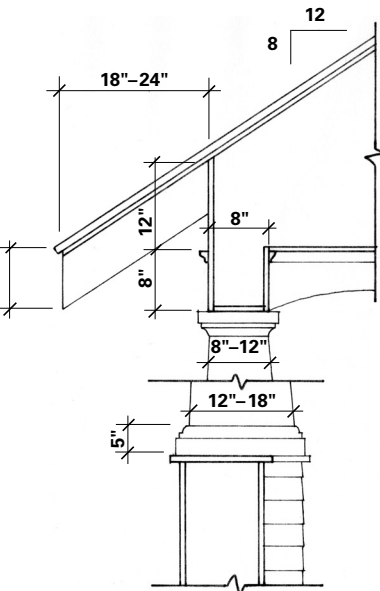
Highlands Arts & Crafts



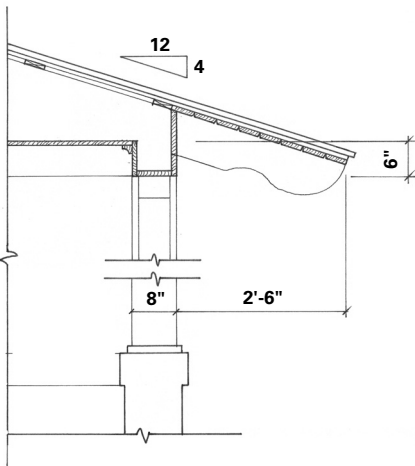
Partial Porch Elevation



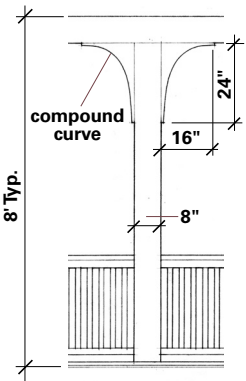
Porch Details



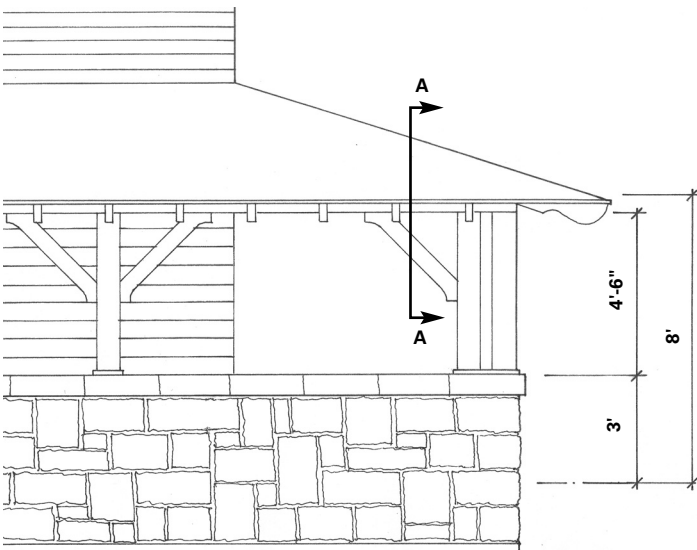
Porch Eave Section



Porch Eave Section A-A



Post and Bracket



Alternate Porch Elevation

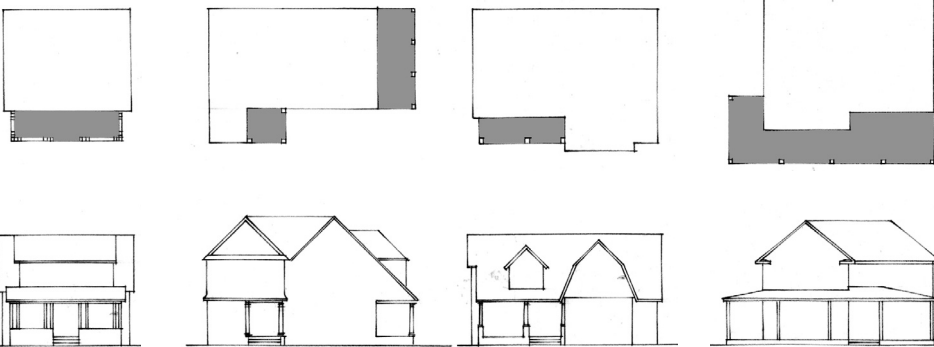
Porches

Porches are typically 8 to 12 feet deep and can be either gable-end, hipped or shed-roofed; cut out of the house volume; or combinations of the two forms. Typically the porches have deep eaves often repeating the same rafter treatment as the main body of the house. Gable-end porches are

designed to express the structural elements. Column types include square posts with brackets (sometimes in pairs or multiple groupings), tapered square box columns, and round Tuscan columns. Open railings are most commonly composed of a thick profiled top rail and closely spaced square pickets.



Typical Porch Locations



Full front porch

Cut-out porch

Integral porch

Wraparound porch

Highlands Arts & Crafts





# Highlands Arts & Crafts

## Materials, Colors & Possibilities

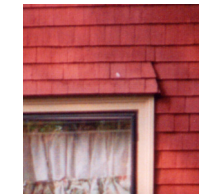
### Materials

**Siding:** Pebble-dash stucco, stone, brick, wood or fiber-cement lap siding, or sawn wood shingles.

**Roofing:** Cedar shakes, slate, or approved composition shingles.

**Windows:** Wood or cellular PVC with traditional wood window profile, or aluminum-clad wood with brick or stone veneer facades only; true divided light or simulated divided light (SDL) sashes with traditional exterior muntin profiles (7/8" wide).

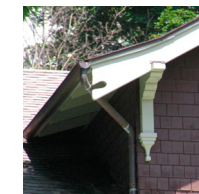
**Trim:** Stucco, stone, cast stone, wood, or composite millwork for built-up sections.



**Columns:** Wood, fiberglass or composite material.

**Railings:** Milled wood or approved composite material; square balusters, or solid railings of wood, sawn shingle, siding, stone, or brick.

**Porch Ceiling:** Plaster, beaded or V-groove plywood or T&G wood boards.



**Eaves:** Boxed eaves have smooth wood, T&G wood boards, or fiber-cement soffit;

open eaves have V-groove or beaded wood sheathing with 2x or 3x rafter tails.

**Gutters:** Half-round in primed or pre-finished metal, copper or zinc.

**Downspouts:** Round in primed or pre-finished metal, copper or zinc.

**Brackets:** Wood, 6x or 8x stock.

**Foundations:** Stucco, brick or stone veneer.

**Chimneys:** Stucco, brick or stone.



**Note:** Refer to the Homestead Preserve pre-approved inventory of appropriate components and materials for recommendations and suggestions.

### Colors

**Siding and Trim:** Colors to be selected from the Homestead Preserve Color Palette.

**Windows:** Sashes and trim to be painted in complementary colors (see the Homestead Preserve Color Palette).

**Roof Shingles:** Natural shake color or stain color selected from the Homestead Preserve Color Palette.

**Gutters and Downspouts:** Match trim color.

**Fencing:** Wood in earth tones from the Homestead Preserve Color Palette; metal is to be black or dark green.



SECTION



# Landscape Patterns





*Traditional farm settlement in the valley*



*Meadow in the valley area*



*Cross section of vegetation thriving on Homestead Preserve*



*Illustration from A.J. Downing*

## General Principles

THE VEGETATION OF HOMESTEAD PRESERVE is as diverse as the vegetation of the Allegheny area of Virginia. The dominant forest type of the Warm Springs Valley is deciduous hardwood – oaks, hickories and maples – with pockets of hemlock. Oaks and hickories favor comparatively dry, well-drained habitats. These trees appear among pines on the Piedmont uplands and coastal plains from Connecticut to Texas.

Homestead Preserve contains several different forest ecosystems: valley, upland forest and ridge ecosystems. Within these natural communities, different climactic zones, plants, and animal species exist. Respecting these ecosystems will be vital to successfully preserving, enhancing and replacing the vegetation that currently exists within the site.



*View of the Allegheny Mountains just south of Healing Springs*

# The Landscape of Virginia Highlands





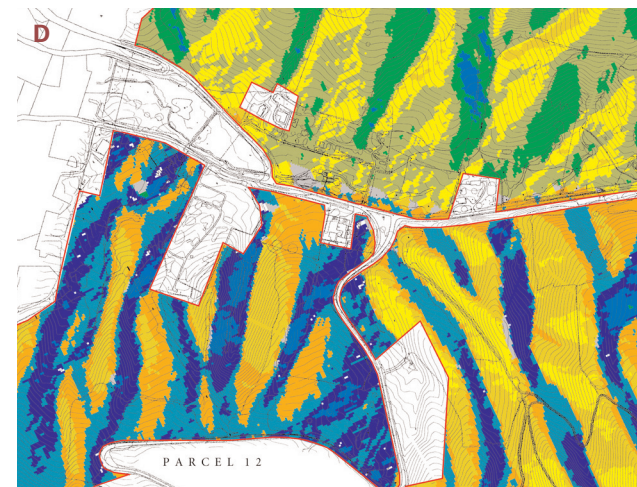
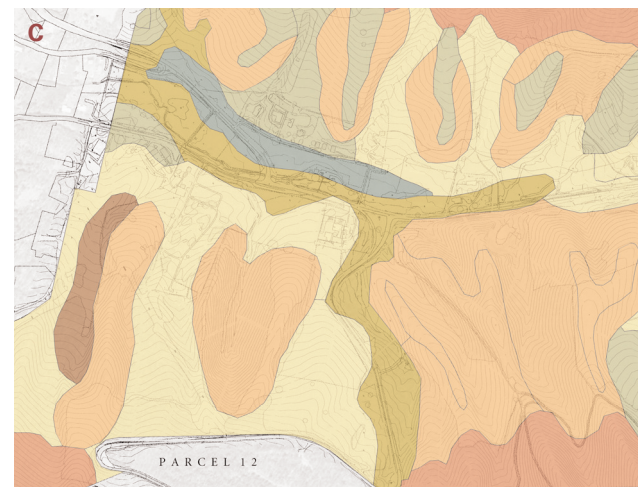
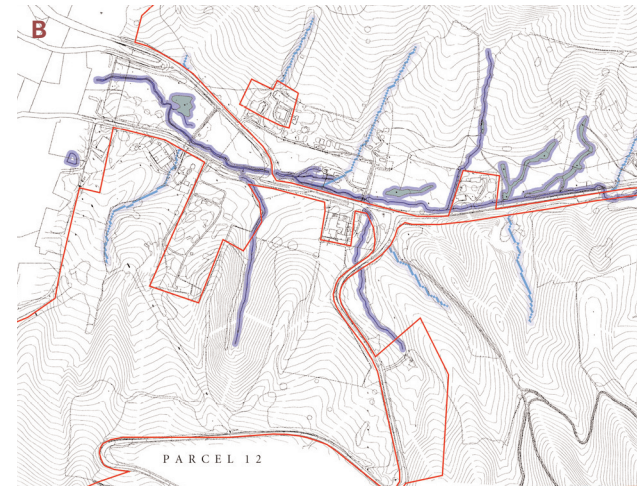
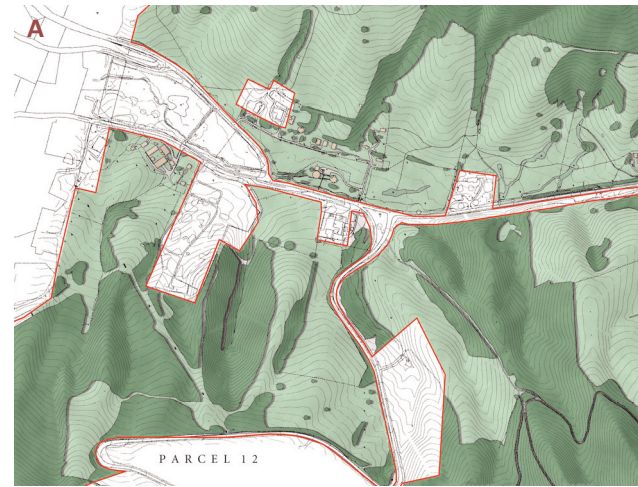
*Stream corridor*



*High meadow on the Homestead Preserve*



*Typical ridge vegetation*



*Examples of analysis drawings for a section of Warm Springs representing a) meadows and woodlands, b) hydrology, c) soils, and d) sun exposure.*

## Specific Principles

The forests of the Southern Appalachians contain considerable diversity in vegetative communities. These present unique opportunities to balance development with aesthetics and sustainability. Understanding the ecosystems and adopting a philosophy of development that minimizes disturbance due to grading will enable the Homestead Preserve to create unique addresses specific to each site type.

The protection of existing vegetation and improvement of existing conditions will preserve the character inherent to different areas of the Preserve. Site specific evaluations of soil type, elevation, aspect, history, and plant material will be used to determine appropriate plant species for regeneration.

The deciduous hardwood forests of the Warm Springs Valley are classified by their relationship to natural landscape features and create specific environments within the Homestead Preserve. For example, homesites adjacent to streams are characterized by mixed deciduous stands. Woodlands are characterized by stands of oak/hickory, whereas Woodlands along the ridges tend to be dominated by stands of pine/spruce and fir. Forest edge addresses are composed primarily of meadow plant communities found in the Southern Appalachians. The change in vegetation from one site to another will serve as a visual marker, or address that enriches the visitor's experience.

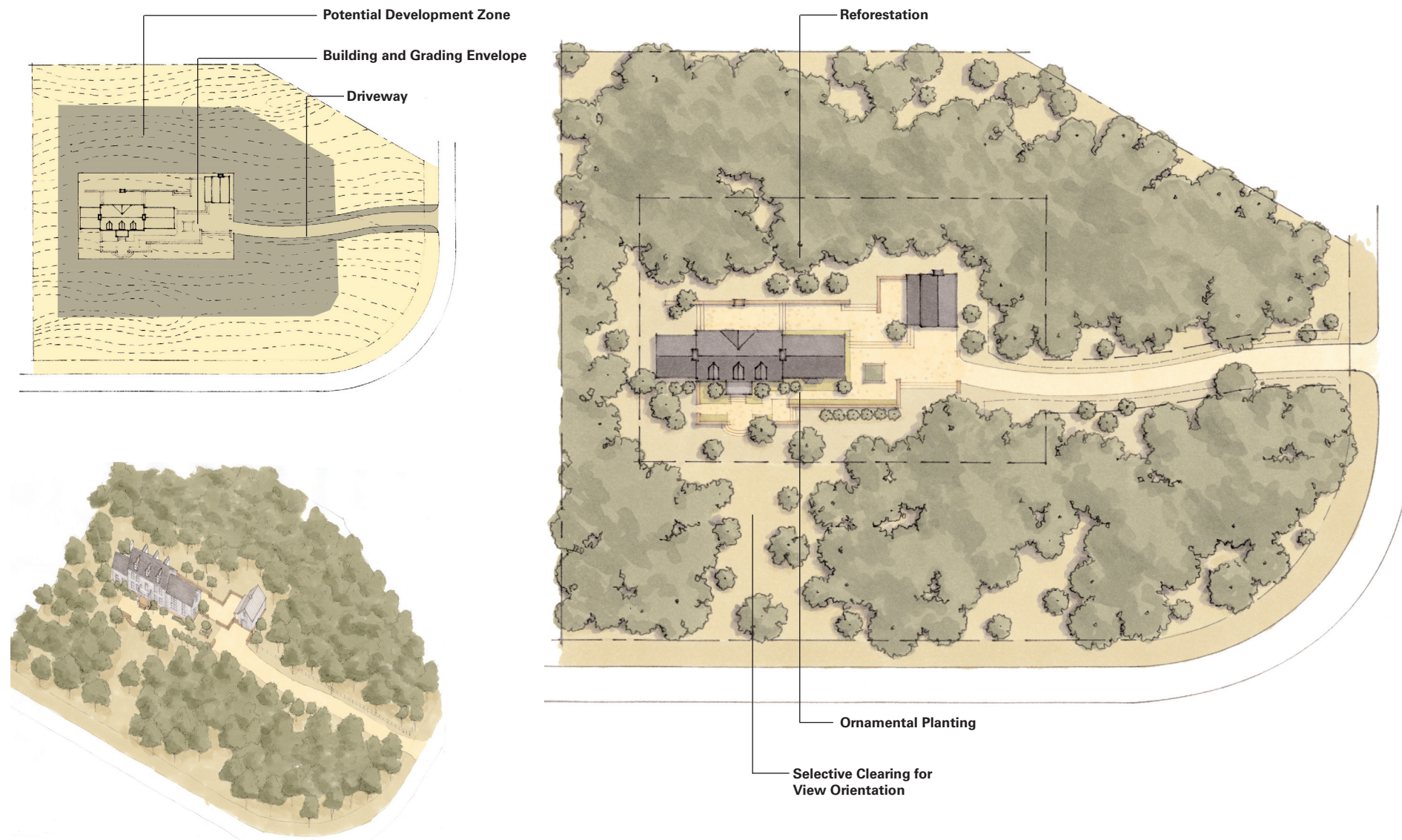
The key principles for landscape development may be summarized as follows:

- Preserve the existing landscape character by limiting the area of disturbance, developing the site in response to and respecting the ecosystems of the preserve,
- Build using indigenous materials, primarily stone and wood, in a style and manner that carries on the traditional craftsmanship of the Virginia Highlands,
- Plant a predominantly native plant palette,
- Use exotic species for select areas near the house.

Together, minimal impact and site-specific actions are key to sustaining the existing vegetation communities and the health of the ecosystems throughout the Preserve.

# Ecosystems of Homestead Preserve





## Woodland Preserve Sites

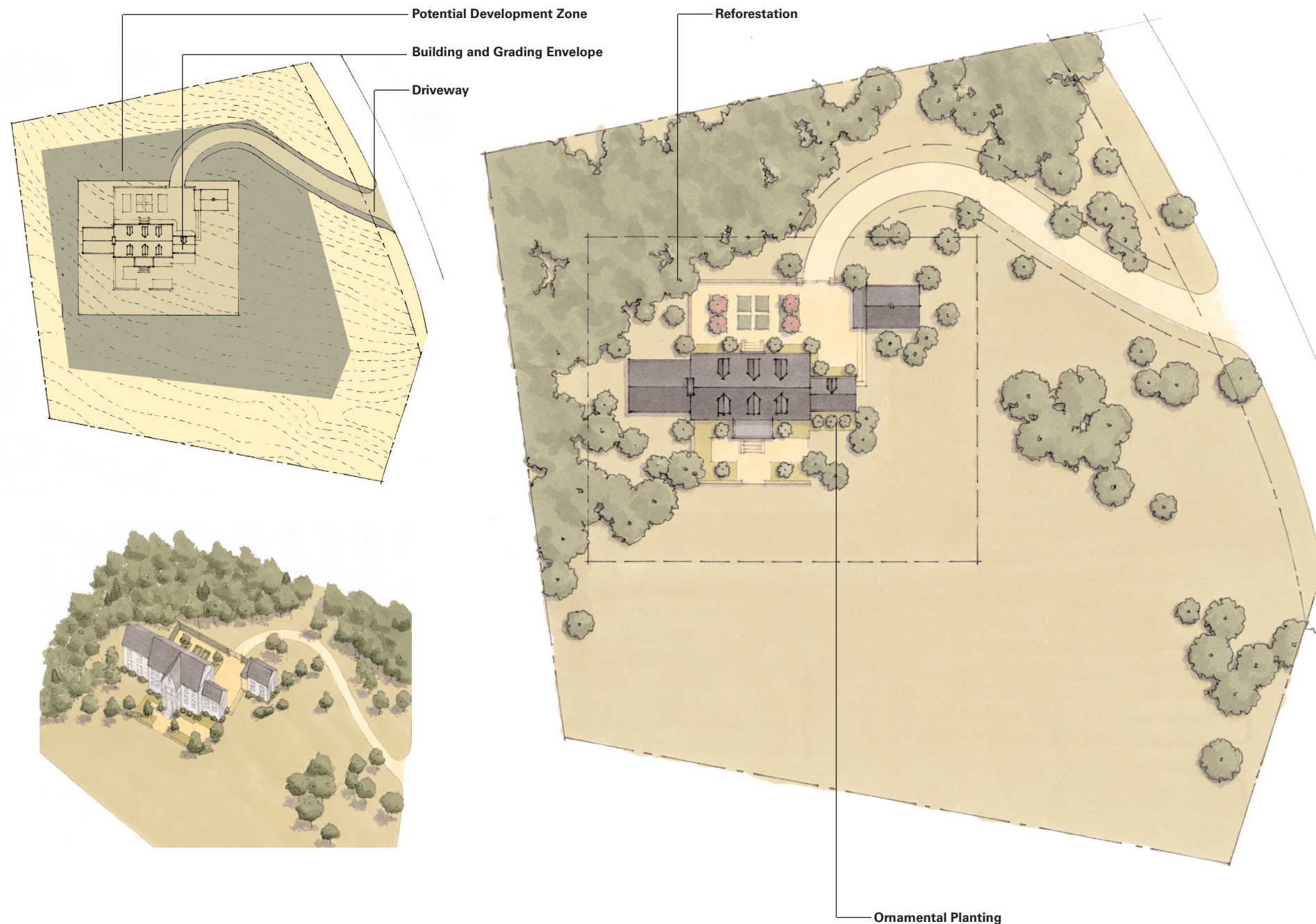
Landscape principles for Woodland Preserve sites emphasize preservation of the existing native tree stands which characterize much of the Homestead Preserve landscape by limiting disturbance of these landscapes in the Building and Grading Envelope and Driveway Zone. Vegetation outside of these areas is to be preserved, with the exception of selective clearing to enhance views, or provide for septic fields. However, establishing a Transition Zone by selectively thinning vegetation outside of the Building and Grading Envelope may improve the transition of vegetative character between house lot and the surrounding woodlands. Refer to the *Homestead Preserve Lot Portfolio* for sites that have specific clearing guidelines for view orientation or septic requirements.

When installing additional plantings within Woodland Preserve sites, homeowners must adhere to the following principles. Plant native vegetation exclusively along Driveway Clearing Zones and Transition Zones, blending the disturbed landscape with the surrounding native hardwood forest. Both native and approved ornamental plantings are allowed within the Building and Grading Envelope establishing gardens and outdoor recreational spaces. Refer to the appendices for the approved Native Plant Palette and Approved Ornamental Plant Palette for Homestead Preserve.



# Landscape Principles





## Meadow Preserve Sites

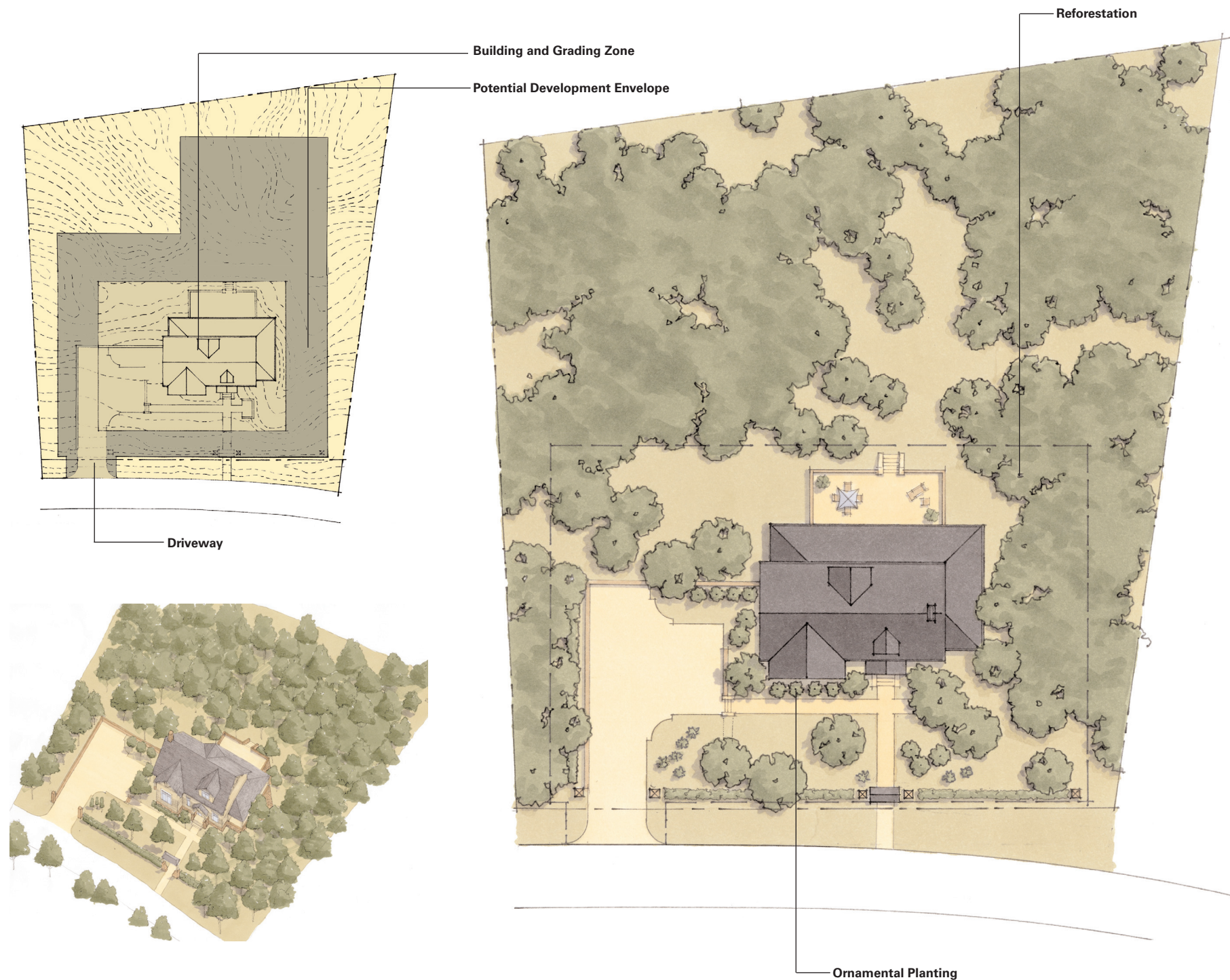
The open rolling character of Meadow Preserve sites is preserved through the sensitive placement of house and grounds along the verge of the meadow landscape, limiting disturbance to the Building and Grading Zone and the Driveway Zone. Preserving vegetation outside of the Building and Grading Envelope helps to ameliorate development along the adjacent woodland edge. A Transition Zone established by the selective removal of a small percentage of existing vegetation helps to integrate the house into the border landscape.

Landscape Principles for Meadow Preserve sites incorporate installation of predominantly native species that reflect the character of the adjacent landscape. Plantings may be used to frame off site vistas and shape the entry drive experience. See the appendices for Native Plant Palette. Exclusively plant native species within Driveway Clearing Zones and Transition Zones. Approved ornamental plantings may be planted within the Building and Grading Envelope. (See appendices for approved native and ornamental plant palettes.)



# Landscape Principles





## Hamlet Sites

Landscape principles for Hamlet sites recommend a combination of sensitive development and planting guidelines that strengthen the relationship among residences within these micro-communities in the Homestead Preserve. Landscaping for Hamlet sites is limited to the Building and Grading Envelope and Driveway Zone of each site. Woodland vegetation outside of these zones should be preserved except where tree clearing is permitted to enhance views on select sites or to make provisions for septic fields. Preserving existing trees and minimizing earth disturbance are essential. Tree preservation includes minimizing root damage and compaction, maintaining positive drainage away from trees and allowing adequate light. On wooded areas, Transition Zones may be established by the selective thinning of adjacent vegetation to provide a seamless meeting of yard and woodland. Refer to the *Homestead Preserve Lot Portfolio* for sites that have specific clearing guidelines for view orientation or septic requirements.

Native and approved ornamental specimens may be planted within the Building and Grading Envelope. Ornamental plants outside of the Building and Grading Envelope are typically not allowed on Hamlet sites unless approved by the architectural review board. Continuity and association may be applied to selecting native and approved ornamental vegetation within each hamlet. Refer to the appendices for the Native Plant and Approved Ornamental Plant Palette.



# Landscape Principles



### History & Character

The Highlands Classical Landscape pattern is derived from precedent landscapes that support Georgian, Federal and Classical Revival houses from the late eighteenth through the mid-nineteenth centuries. This landscape pattern emphasizes the formal symmetry and clean lines of the well-proportioned houses they frame. Meticulous massings of evergreens and hedges should align symmetrically to afford and define prominent views to and from the front of the house as well as to define garden geometries in the more private side and rear yards. Colorful garden displays are best reserved for the side and rear yards to avoid competing with the refined architectural detailing of the house. Pleasure and cutting gardens should also follow formal geometries to further accentuate the classic lines and symmetry of the house. Geometric boxwood gardens, dignified axially and proportionately with the massing of the building, may be used to bring order to the rear and side yards. Perennial and annual displays should be accompanied and framed by well-trimmed evergreen shrubbery. Where included, kitchen gardens are to be located near a service entrance closest to the kitchen pantry. Hardscape materials should support the architectural detailing of the house.



- Essential Elements of the Highlands Classical Landscape
- 1 Symmetrical composition of vegetative massing
  - 2 Formal arrangement of evergreen foundation plantings
  - 3 Hardscape materials supports the architecture
  - 4 Garden spaces reserved for side and rear yards

#### Landscape Elements

**Walls:** Dimension stone, laid in ranged or coursed ashlar construction. Clay-mold brick with brick coping. Densely propagated hedges may supplement hardscape walls. End columns or piers may be accented with ball or pineapple-style finial.

**Fencing:** Wood picket or pre-finished metal. Wood is to be painted white or to match the house body color.

**Gates:** Wood, picket or Chippendale design; decorative metal.



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## Highlands Classical Landscape

LANDSCAPE PATTERNS

D 6

### History & Character

The Highlands Farmhouse Landscape builds upon eighteenth and nineteenth century precedents found in the settlement patterns of Bath County. The character of these precedent landscapes is decidedly utilitarian in nature with their spatial organization ordered by loose clusters of outbuildings that support the day-to-day management of the property. Highlands Farmhouse landscapes should reflect the traditional timeless beauty of the architecture. Loose geometric planting beds bring definition to the ground plane. Landscapes associated with Italianate or Gothic style residences may reference the ornate character detailing of the architecture with organic and trefoil-shaped beds giving order to the ground plane. Typically, the entry sequence unfolds along a curvilinear drive with informal groupings of shrubs. Pasture gardens are best reserved for the rear and side yards and may be contained by evergreen plantings. Side and rear yards may include cutting, flower and/or kitchen gardens. Typically, rear and side yard pleasure gardens consist of native species with the occasional display of ornamental specimen plantings. Stands of fruit trees or fruitless trees of similar character may be established along the residential verge, referencing the historic cultivation of orchards.



- Essential Elements of the Highlands Farm House Landscape
- 1 Informal front yard with dense plantings along perimeter
  - 2 Kitchen and cutting flower garden at the rear and side yards
  - 3 Fruit trees or fruitless trees of comparable form
  - 4 Outbuildings of differing materials referencing earlier periods of construction

#### Landscape Elements

**Walls:** Dry-laid stone walls, CMU walls with stucco to match building exterior.

**Fencing:** Wood, four-board, Virginia split rail, sodder rail, white picket.

**Gates:** Wood, pre-finished metal color black, dark green.

**Paving:** Brick, stone, exposed aggregate, stone-pick.

**Outbuildings:** Materials may reference house or be more rustic to suggest earlier period of development, utility sheds, stonehouses, pergolas, detached garage/coach house.

**Vegetation:** Predominant native species throughout with specimen shade plantings. Evergreens used in foundation plantings.



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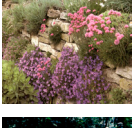
## Highlands Farmhouse Landscape

LANDSCAPE PATTERNS

D 7

### History & Character

Full of color and rich in texture, the English Romantic landscape pattern for Homestead Preserve honors the lushly planted gardens that enveloped the courtyard and grounds of rural estates throughout the English countryside in the nineteenth century. The landscape progression of these precedents moved from formal display and cutting gardens around the house to more service-oriented gardens and outbuildings, often culminating in dense naturalistic vegetation along the perimeter of the property. The arrival sequence was often resolved by an interior courtyard defined by perimeter stone walls, fences or hedge rows. The spatial character of the English Romantic landscape at Homestead Preserve should contain a high percentage of colorful display and cultivatable gardens enveloping the residence. Inspired by the gardenesque style made popular by Gertrude Jekyll in the late nineteenth and early twentieth century, English Romantic gardens at Homestead Preserve may contain a liberal mixture of perennials and woody plants and an abundance of flower borders. These gardens may include cutting and kitchen gardens. Fruit trees for display and cultivation can be planted in the side yards to reference similar species cultivated outside of the immediate house and grounds landscape. An exclusively native plant palette of shade trees and evergreens at the perimeter of the property should be used to provide contrast to the display gardens around the residence. Entrance into the house proper may be established via a vertical wall or hedge row enclosing the interior courtyard of the property. The drive should penetrate the enclosing wall or hedge to arrive at the main arrival terrace or side yard. Hardscape materials should reflect the refined yet rustic character of the architecture including stone, brick and wood.



- Essential Elements of the English Romantic Landscape
- 1 Lush garden courtyard enveloping the immediate house and grounds
  - 2 Spatially defining wall or hedge placed near the house to delineate arrival
  - 3 Progression towards naturalistic landscape palette as you move outward from the house
  - 4 Composition of rustic landscape materials
  - 5 Use of shade and shadow around perimeter to contrast colorful interior gardens

#### Landscape Character Elements

**Walls:** Stone walls of regular coursed ashlar construction, wood-mold brick walls, stucco, stone, exposed rounded or flat. Climbing vines may be trained to walls.

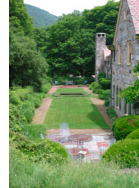
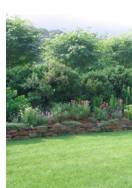
**Fencing:** Wood picket, rustic two or three split rail, wattle.

**Gates:** Wood picket, wrought iron, or pre-finished metal.

**Paving:** Stone, dry laid, brick rubble, exposed aggregate, gravel & fines

**Outbuildings:** Rustic in character complementary to building architecture. Arbor may be attributed to grand pedestrian entrance, wooden pergolas.

**Vegetation:** Generous display of perennial borders intermingled with woody plants. Annual beds may be showcased in feature beds. Dense plantings of native species may be planted in massings around the perimeter of the landscape to create contrasts in form, color, and shade representative of the character landscape.



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## English Romantic Landscape

LANDSCAPE PATTERNS

D 8

### History & Character

The Highlands Arts & Crafts style is influenced by rural estates of the Virginia Highlands region from the late nineteenth century to the present which combine the formality of interior garden rooms with outlying naturalistic landscapes. Gardens in the Arts & Crafts period often embodied a series of enclosed outdoor rooms – theme gardens and recreational green spaces – and garden materials often included planters and urns along with rustic, indigenous stone and wood. Designers drew inspiration from the fine arts and local craftsmanship, embellishing fences, gates and garden structures. The arrival sequence was informal and typically curvilinear in form, culminating at a side yard or porte cochère. The Highlands Arts & Crafts landscape draws on this tradition, emphasizing the use of native plantings and hardscape materials balanced by the refinement of local artistry in woodworking, stone masonry and other building crafts. Garden spaces within this landscape are composed of formal outdoor garden rooms, or theme gardens, with more natural plantings of indigenous species enveloping the edges of the property. A curvilinear alignment of lushly planted entry drives in the Highlands Arts & Crafts landscapes will provide intermittent views of the residence, arriving at the entrance or side yard. Drives located on slopes greater than 10% should include random rubble stone-cladding.



- Essential Elements of the Highlands Arts & Crafts Landscape
- Use of natural landscape materials
  - Formal, enclosed theme gardens
  - Naturalistic landscape at edges
  - Embellishment with urns and planters

#### Landscape Character Elements

**Walls:** Stone walls both random rubble and dry-laid broken ashlar coursing. Piers should define the ends of walls and be adorned with planter urns or statuary.

**Fencing:** Predominantly wood picket fencing, level across the top with decorative pickets and posts referencing architecture of the house.

**Gates:** Wood with decorative pickets referencing architecture of the house.

**Paving:** Stone laid in random and ashlar coursing. Mortar joints and grass joints acceptable.

**Outbuildings:** Predominantly wood with some stone exhibiting artistic detailing of house, rustic wooden summerhouses.

**Vegetation:** Hedge rows of yew, box, ilex enclosing garden rooms, theme gardens of annuals and perennials, native naturalistic plants around perimeter.



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## Highlands Arts & Crafts Landscape

LANDSCAPE PATTERNS

D 10

# Landscape Patterns



# History & Character

The Highlands Classical Landscape pattern is derived from precedent landscapes that support Georgian, Federal and Classical Revival houses from the late eighteenth through the mid-nineteenth centuries. This landscape pattern emphasizes the formal symmetry and clean lines of the well-proportioned houses they frame. Manicured massings of evergreens and hedgerows should align symmetrically to afford and define prominent views to and from the front of the house as well as to define garden geometries in the more private side and rear yards.

Colorful garden displays are best reserved for the side and rear yards to avoid competing with the refined architectural detailing of the house. Pleasure and cutting gardens should also follow formal geometries to further accentuate the classic lines and symmetry of the house. Geometric boxwood gardens, aligned axially and proportionately with the massing of the building, may be used to bring order to the rear and side yards. Perennial and annual displays should be accompanied and framed by well-trimmed evergreen shrubbery. Where included, kitchen gardens are to be located near a service entrance closest to the kitchen pantry. Hardscape materials should support the architectural detailing of the house.



## Essential Elements of the Highlands Classical Landscape

- Symmetrical composition of vegetative massing
- Formal arrangement of evergreen foundation plantings
- Hardscape materials supports the architecture.
- Garden spaces reserved for side and rear yards

## Landscape Elements

**Walls:** Dimension stone, laid in ranged or coursed ashlar construction. Clay-mold brick with brick coping. Densely propagated hedgerows may supplement hardscape walls. End columns or piers may be accented with ball or pineapple style finial.

**Fencing:** Wood picket or pre-finished metal. Wood is to be painted white or to match the house body color.

**Gates:** Wood, picket or Chippendale design; decorative metal.

**Paving:** Brick, brick rubble, shure-pack gravel, exposed aggregate.

**Outbuildings:** Formally dressed out-buildings, matching architectural style of dwelling.

**Vegetation:** Abundance of evergreens, foundation and spatial defining plants (Southern Magnolias, Box, Yew), shade trees, large planters.



# Highlands Classical Landscape



# History & Character

The Highlands Farmhouse Landscape builds upon eighteenth and nineteenth century precedents found in the settlement patterns of Bath County. The character of these precedent landscapes is decidedly utilitarian in nature with their spatial organization ordered by loose clusters of outbuildings that support the day-to-day management of the property.

Highlands Farmhouse landscapes should reflect the traditional timeless beauty of the architecture. Loose geometric planting beds bring definition to the ground plane. Landscapes associated with Italianate or Gothic style residences may reference the ornate character detailing of the architecture with organic and trefoil-shaped beds giving order to the ground plane. Typically, the entry sequence unfolds along a curvilinear drive with informal groupings of shrubs. Feature gardens are best reserved for the rear and side yards and may be contained by evergreen plantings. Side and rear yards may include cutting, flower and/or kitchen gardens. Typically, rear and side yard pleasure gardens consist of native species with the occasional display of ornamental specimen plantings. Stands of fruit trees or fruitless trees of similar character may be established along the residential verge, referencing the historic cultivation of orchards.



## Essential Elements of the Highlands Farm House Landscape

- Informal front yard with dense plantings along perimeter
- Kitchen and cutting flower gardens at the rear and side yards
- Fruit trees or fruitless trees of comparable form
- Outbuildings of differing materials referencing earlier periods of construction

## Landscape Elements

**Walls:** Dry-laid stone walls, CMU walls with stucco to match building exterior.

**Fencing:** Wood, four-board, Virginia split rail, snake-rail, white picket.

**Gates:** Wood, pre-finished metal color black, dark green.

**Paving:** Brick, stone, exposed aggregate, shure-pack.

**Outbuildings:** Materials may reference house or be more rustic to suggest earlier period of development, utility sheds,

storehouses, pergolas, detached garage/coach house.

**Vegetation:** Predominant native species throughout with specimen exotic plantings. Evergreens used in foundation plantings.



# Highlands Farmhouse Landscape



# History & Character

Full of color and rich in texture, the English Romantic landscape pattern for Homestead Preserve honors the lushly planted gardens that enveloped the courtyard and grounds of rural estates throughout the English countryside in the nineteenth century. The landscape progression of these precedents moved from formal display and cutting gardens around the house to more service-oriented gardens and outbuildings, often culminating in dense naturalistic vegetation along the perimeter of the property. The arrival sequence was often resolved by an interior courtyard defined by perimeter stone walls, fences or hedge rows.

The spatial character of the English Romantic landscape at Homestead Preserve should contain a high percentage of colorful display and cultivatable gardens enveloping the residence. English Romantic gardens at Homestead Preserve may contain a liberal mixture of perennials and woody plants and an abundance of flower borders. These gardens may include cutting and kitchen gardens. Fruit trees for display and cultivation can be planted in the side yards to reference similar species cultivated outside of the immediate house and grounds landscape. An exclusively native plant palette of shade trees and evergreens at the perimeter of the property should be used to provide contrast to the display gardens around the residence.

Entrance into the house proper may be established via a vertical wall or hedgerow enclosing the interior courtyard of the property. The drive should penetrate the encircling wall or hedge to arrive at the main arrival terrace or side yard. Hardscape materials should reflect the refined yet rustic character of the architecture including stone, brick and wood.



## Essential Elements of the English Romantic Landscape

- Lush garden courtyard enveloping the immediate house and grounds
- Spatially defining wall or hedge placed near the house to delineate arrival
- Progression towards naturalistic landscape pallet as you move outward from the house
- Composition of rustic hardscape materials.
- Use of shade and shadow around perimeter to contrast colorful interior gardens

## Landscape Character Elements

**Walls:** Stone walls of regular coursed ashlar construction, wood-mold brick walls, stucco, stone capstone rounded or flat. Climbing vines may be trained to walls.

**Fencing:** Wood picket, rustic two or three split rail, wattle.

**Gates:** Wood picket, wrought iron, or pre-finished metal.

**Paving:** Stone dry laid, brick rubble, exposed aggregate, gravel & fines

**Outbuildings:** Rustic in character complementary to building architecture. Arbor may be attributed to gated pedestrian entrance, wooden pergolas.



**Vegetation:** Generous display of perennial borders intermingled with woody plants. Annual beds may be showcased in feature beds. Dense plantings of native species may be planted in massings around the perimeter of the landscape to create contrasts in form, color, and shade representative of the character landscape.



# English Romantic Landscape



# History & Character

The Highlands Arts & Crafts style is influenced by rural estates of the Virginia Highlands region from the late nineteenth century to the present which combine the formality of interior garden rooms with outlying naturalistic landscapes. Gardens in the Arts & Crafts period often embodied a series of enclosed outdoor rooms – theme gardens and recreational green spaces – and garden materials often included planters and urns along with rustic, indigenous stone and wood. Designers drew inspiration from the fine arts and local craftsmanship, embellishing fences, gates and garden structures. The arrival sequence was informal and typically curvilinear in form, culminating at a side yard or porte cochère.

The Highlands Arts & Crafts landscape draws on this tradition, emphasizing the use of native plantings and hardscape materials balanced by the refinement of local artistry in woodworking, stone masonry and other building crafts. Garden spaces within this landscape are composed of formal outdoor garden rooms, or theme gardens, with more natural plantings of indigenous species enveloping the edges of the property.

A curvilinear alignment of lushly planted entry drives in the Highlands Arts & Crafts landscapes will provide intermittent views of the residence, arriving at the entrance or side yard. Drives located on slopes greater than 10% should include random rubble stone-cladding.



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## Essential Elements of the Highlands Arts & Crafts Landscape

- Use of natural hardscape materials
- Formal, enclosed theme gardens
- Naturalistic landscape at edges
- Embellishment with urns and planters.

## Landscape Character Elements

**Walls:** Stone walls both random rubble and dry-laid broken ashlar coursing. Piers should define the ends of walls and be adorned with planter urns or statuary.

**Fencing:** Predominantly wood picket fencing, level across the top with decorative pickets and posts referencing architecture of the house.

**Gates:** Wood with decorative pickets referencing architecture of the house.

**Paving:** Stone laid in random and ashlar coursing. Mortar joints and grass joints acceptable.

**Outbuildings:** Predominantly wood with some stone exhibiting artistic detailing of house, rustic wooden summerhouses.

**Vegetation:** Hedge rows of yew, box, ilex enclosing garden rooms, theme gardens of annuals and perennials; native naturalistic plants around perimeter.



# Highlands Arts & Crafts Landscape



Stone Wall Options



Section

Random Stack



Random rubble stone wall



Driveway with walls to minimize disturbance to the site

Walls, Walkways & Drives

Driveway Pavement Surfaces

Driveways will be aligned with the contours and minimize site disturbance by the use of walls or planted slopes. All paving surfaces shall generally be limited to 10 feet in width and use materials that will soften their visual impact. The materials will be gravel, bituminous paving or exposed aggregate concrete. Pavement aprons between the street and driveways can be block stone or stone.

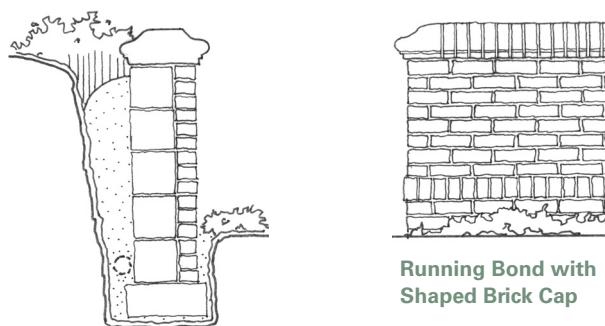
Walls, Piers and Steps

Walls, piers and steps outside the Building Zone may be constructed of brick or stone. Walls, piers and steps within the building pad can be stone or match the material used to construct the house.

Sidewalk and Terrace Paving

Sidewalks, entry terraces and rear patios should be constructed of brick, stone or concrete with decorative edges.

Brick Wall Options

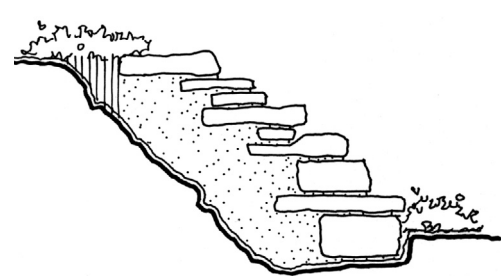


Section

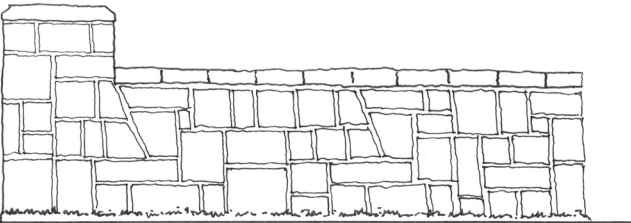
Running Bond with Shaped Brick Cap



Stone piers and ornamental iron gate



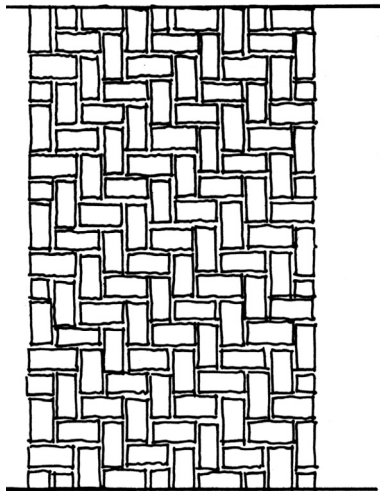
Ledgerrock Section



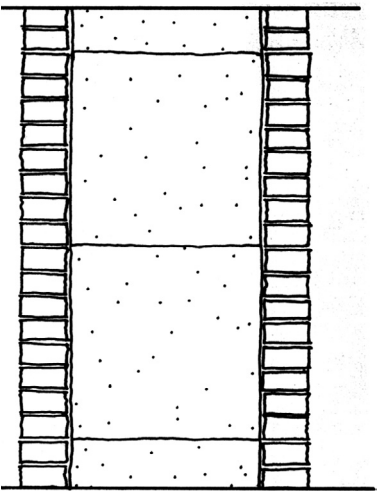
Typical Wall and Pier Combination



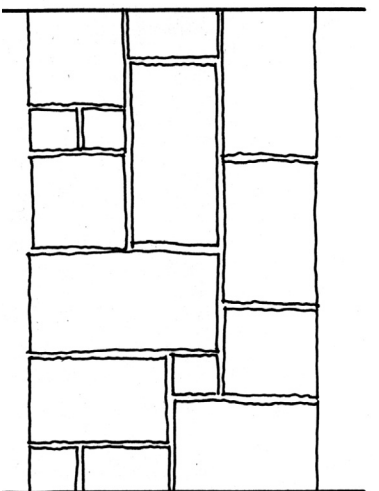
Dry-laid coursed ashlar wall and pier



Brick Walk



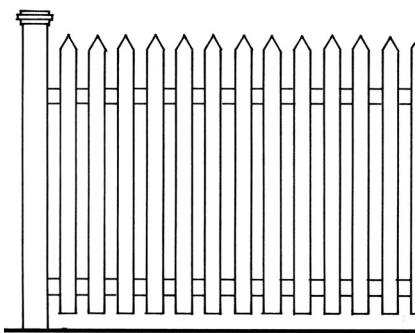
Concrete or Gravel Walk with Brick Edge



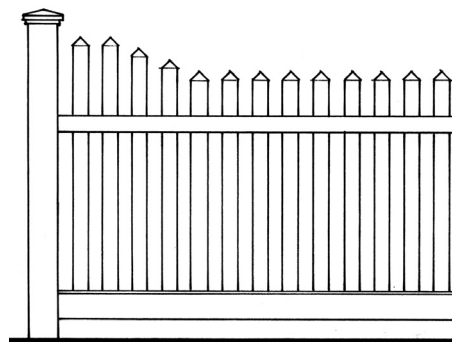
Stone Walk

Landscape Elements

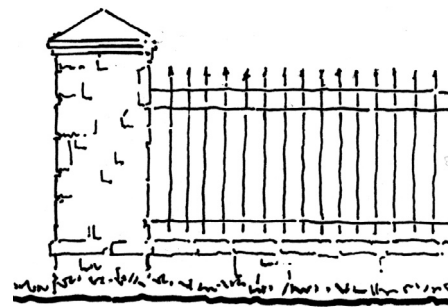




Flat Picket Fence



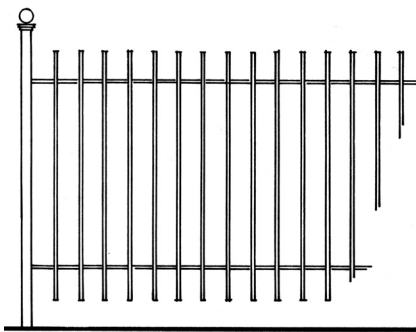
Square Picket Fence



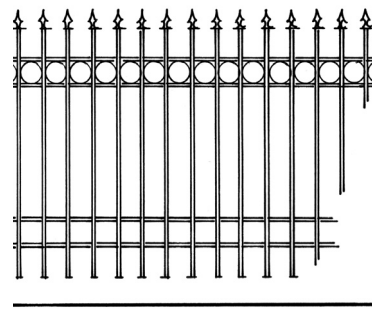
Wall and Fence Combinations



Wood gate detail



Simple Iron Fence



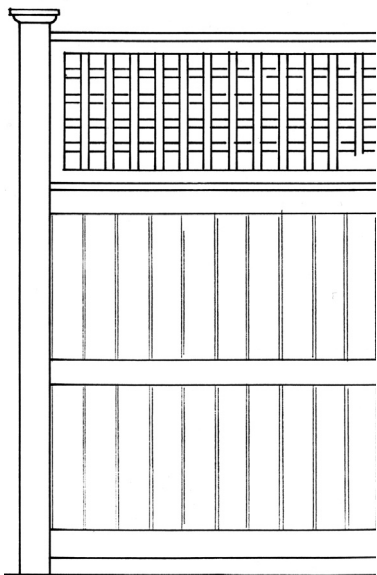
Ornate Iron Fence



Chippendale style gate



Wood picket and rail gate



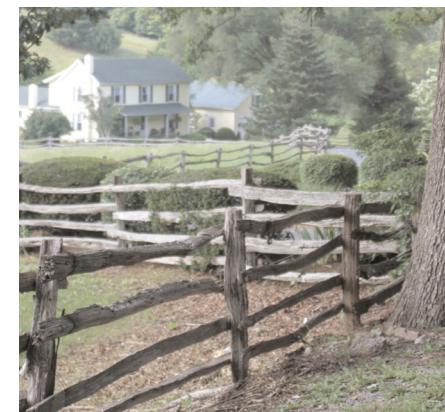
Privacy Fence

### Privacy Fencing

*Fencing for privacy may be desired in the private zones. Here fences may be built to a height of 6 feet. Often, privacy fences are opaque to a height of 4 feet with 2 feet of transparent fencing (lattice) above. These privacy fences can be constructed only within the private zone of the site unless otherwise approved.*



4-board fence at pasture/meadow edge



Rustic split rail fence

## Highland Fences

Fences, hedges and walls are part of an inherited pattern in the Highlands landscape. There are three basic types used in the Preserve landscape palette: Front yard fencing which consists of painted wood or approved composite picket fencing based on historic patterns and types as well as decorative, painted metal fencing often used in Victorian era houses or Classical houses. These may be standalone or used in combination with stone and brick walls. A second type of fencing, privacy fencing, may sometimes occur in the backyards of houses within settlements. Meadow or pasture fencing is used at the edge of long driveways and occasionally to separate yards from pasture land. This type of fence is painted wood, white or creasote color, and consists of four horizontal boards. More primitive, split rail fence types are appropriate alternatives to the standard pasture fence in some areas.



A snake rail fence defining the pasture edge

# Landscape Elements





## Outbuildings

Outbuildings are an important part of the Preserve homestead. There is a strong tradition of nicely detailed smaller buildings whose purpose and use changes over time. As the Preserve houses grow, the outbuildings would serve an important role. These buildings will be used as garages, guest houses, or even the initial house on the site.

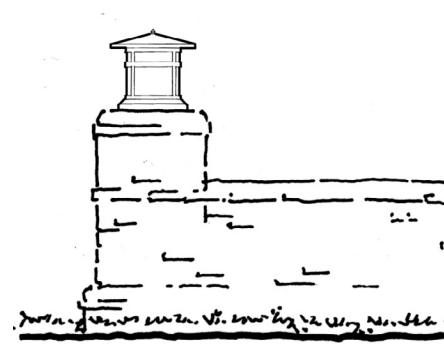
Common materials for outbuildings may include reconstructed log structures, stone, and clapboard on board and batten siding with shake, slate (or approved composite slate), and standing seam roofing. Most outbuildings are set on stone or pier foundations.

## Landscape Elements

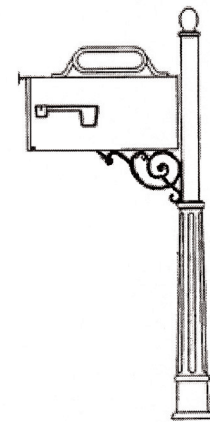




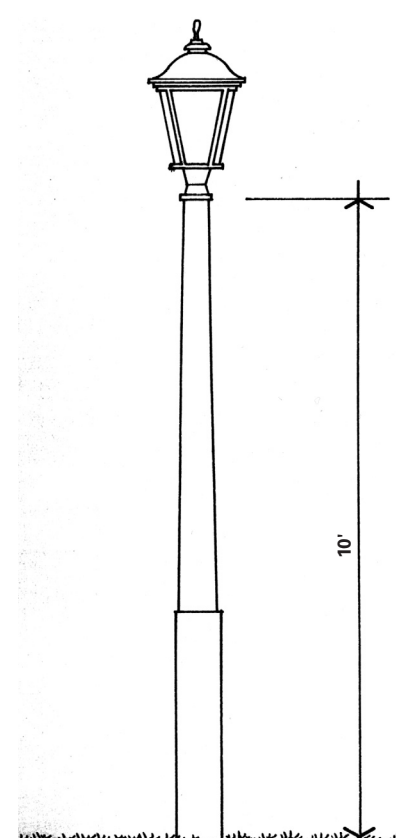
Garden Trellis



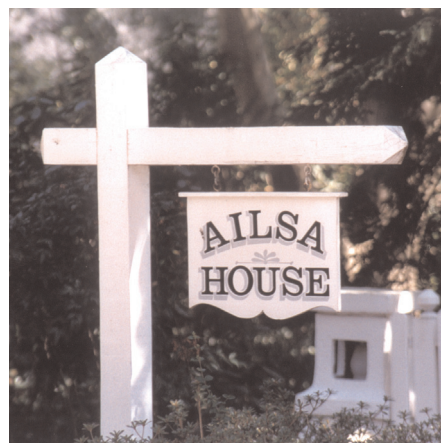
Light Integrated into Stone Pier



Typical Mailbox



Typical Post Light



## Accessory Elements

### Lighting

Lighting of private lots shall be the minimum required to provide an adequate level of safety. Size, scale and materials for lighting fixtures shall be compatible with the architecture of the house. These include post lights, indirect lighting for landscape materials, or wall and pier lights. Full-cutoff light fixtures should be used to focus the light projection downward and reduce light spill into the atmosphere. Site lighting is limited to areas within the Building and Grading Envelope with the exception of down-lights at the driveway entry.

### Mailboxes

Refer to the mailbox options approved by the Homestead Preserve town architect.

### House Numbers & Signs

Post-mounted signs with house number and house name, or pier mounted signs in bronze or cast stone. House numbers should be individual characters in black metal, brass or bronze, or cast metal, painted. Cast panels should be no larger than 8 inches by 20 inches.

### Screening

All air conditioning units and other mechanical equipment shall be screened from public view with shrubs, hedges, walls, fences, or a combination of these.

Ancillary structures, such as trash enclosures, are to be integrated into the landscape as much as possible and screened from public view using similar methods.

Pools should be inground. Pools should be screened from view unless otherwise approved. Approval may be given for pool enclosures designed to resemble a conservatory or an orangerie.

Satellite dishes should not be visible on the front of the house or from shared lanes.

Propane tanks should be placed underground unless otherwise approved.

### Irrigation

Irrigation is recommended for all landscaped areas in the private garden zones.



# Landscape Elements



# ● Appendix



Native Trees													
Scientific Name	Common Name	Uses					Light				Moisture		
		W	H	C	D		S	P	F		L	M	H
Small trees													
<i>Amelanchier arborea</i>	downy serviceberry	x	x	x				x	x			x	
<i>Amelanchier canadensis</i>	Canada serviceberry	x	x	x					x			x	x
<i>Amelanchier laevis</i>	smooth serviceberry	x	x	x				x	x		x	x	
<i>Asimina triloba</i>	paw paw	x	x	x			x	x				x	
<i>Cercis canadensis</i>	redbud (Eastern)		x	x			x	x				x	
<i>Chionanthus virginicus</i>	fringetree		x					x	x			x	
<i>Cornus alternifolia</i>	alternate-leaf dogwood	x	x	x			x	x			x	x	
<i>Cornus amomum</i>	silky dogwood	x		x			x	x				x	x
<i>Cornus florida</i>	flowering dogwood	x	x	x			x	x			x	x	
<i>Crateagus crus-galli</i>	cockspur hawthorne	x	x	x				x	x		x	x	
<i>Crateagus flava</i>	October haw	x	x					x	x			x	
<i>Euonymous atropurpureus</i>	wahoo		x	x			x	x				x	
<i>Halesia tetraptera</i> (H. carolina )	common silverbell		x					x	x			x	
<i>Ilex opaca</i>	American holly	x	x	x			x					x	
<i>Morus rubra</i>	red mulberry	x	x	x			x	x				x	
<i>Ostrya virginiana</i>	Eastern hop-hornbeam		x				x	x				x	
<i>Prunus americana</i>	American wild plum		x	x				x				x	
<i>Prunus virginiana</i>	choke cherry	x	x	x				x				x	
<i>Rhus glabra</i>	smooth sumac	x	x	x					x		x	x	
<i>Rhus hirta</i> (R. typhina )	staghorn sumac	x	x	x					x		x		
<i>Salix nigra</i>	black willow			x				x	x			x	x
Medium to Large Trees													
<i>Acer rubrum</i>	red maple		x	x					x			x	x
<i>Acer saccharum</i>	sugar maple		x	x				x	x			x	
<i>Aesculus flava</i> (A. octandra )	yellow buckeye		x					x				x	
<i>Betula alleghaniensis</i>	yellow birch	x	x	x				x	x			x	
<i>Betula lenta</i>	sweet birch, black birch	x	x	x				x	x			x	
<i>Betula nigra</i>	river birch	x	x	x					x			x	x
<i>Carya alba</i> (C. tomentosa )	mockernut hickory			x			x	x			x	x	
<i>Carya glabra</i>	pignut hickory	x	x	x			x	x			x		
<i>Carya ovata</i>	shagbark hickory			x				x	x			x	
<i>Diospyros virginiana</i>	persimmon	x	x	x			x	x	x		x	x	
<i>Fagus grandifolia</i>	American beech	x	x				x	x	x			x	
<i>Fraxinus americana</i>	white ash	x	x					x	x			x	
<i>Fraxinus pensylvanica</i>	green ash	x	x	x				x	x			x	
<i>Juglans nigra</i>	black walnut	x		x				x	x			x	
<i>Juniperus virginiana</i>	red cedar (Eastern)	x	x					x	x		x	x	

continued													
Scientific Name	Common Name	Uses					Light				Moisture		
		W	H	C	D		S	P	F		L	M	H
<i>Liquidambar styraciflua</i>	sweetgum		x	x			x	x	x			x	x
<i>Liriodendron tulipifera</i>	tulip-tree, tulip poplar	x	x	x					x			x	
<i>Magnolia acuminata</i>	cucumber magnolia		x						x			x	
<i>Nyssa sylvatica</i>	black gum	x	x	x				x	x			x	
<i>Oxydendrum arboreum</i>	sourwood		x					x				x	
<i>Pinus echinata</i>	shortleaf pine		x					x	x		x		
<i>Pinus serotina</i>	pond pine	x	x	x					x			x	x
<i>Pinus strobus</i>	white pine		x	x					x		x	x	
<i>Pinus virginiana</i>	Virginia pine			x					x		x		
<i>Platanus occidentalis</i>	sycamore			x				x	x			x	x
<i>Prunus pennsylvanica</i>	pin cherry, fire cherry	x		x				x	x		x		
<i>Prunus serotina</i>	wild black cherry	x		x				x	x		x		
<i>Quercus alba</i>	white oak	x	x	x				x	x		x		
<i>Quercus bicolor</i>	swamp white oak	x		x			x	x					x
<i>Quercus coccinea</i>	scarlet oak	x	x					x	x		x		
<i>Quercus falcata</i>	Southern red oak	x	x	x			x	x			x	x	
<i>Quercus ilicifolia</i>	bear oak	x		x					x		x		
<i>Quercus montana (Q. prinus )</i>	chestnut oak	x		x			x	x			x		
<i>Quercus palustris</i>	pin oak	x	x	x			x	x				x	x
<i>Quercus rubra</i>	Northern red oak	x	x	x				x	x		x	x	
<i>Quercus stellata</i>	post oak	x	x	x					x		x		
<i>Quercus velutina</i>	black oak	x		x			x	x			x		
<i>Robinia pseudoacacia</i>	black locust			x				x	x			x	
<i>Sassafras albidum</i>	sassafras			x				x	x		x	x	
<i>Thuja occidentalis</i>	white cedar	x	x	x					x			x	x
<i>Tilia americana</i>	American basswood			x				x				x	
<i>Tsuga canadensis</i>	Eastern hemlock	x	x	x				x	x			x	
<i>Tsuga caroliniana</i>	Carolina hemlock	x	x	x				x	x		x	x	
+ May be aggressive in garden setting.													
* Due to the rarity and sensitivity of habitat in Virginia, these species are recommended for horticultural use only.													

Recommended Uses

W = Wildlife  
H = Horticulture and Landscaping  
C = Conservation and Restoration  
D = Domestic Livestock Forage

Minimum Light Requirements

S = Full Shade  
P = Partial Sun  
F = Full Sun

Minimum Moisture Requirements

L = Low Moisture  
M = Moderate Moisture  
H = High Moisture

Native Trees



Native Ferns, Grasses and Vines													
Scientific Name	Common Name	Uses					Light				Moisture		
		W	H	C	D		S	P	F		L	M	H
Ferns and Fern Allies													
<i>Adiantum pedatum</i>	maidenhair fern		x	x			x					x	
<i>Asplenium platyneuron</i>	ebony spleenwort		x				x	x				x	
<i>Athyrium asplenoides</i> (A. filix-femina)	Southern ladyfern		x	x			x					x	x
<i>Botrychium virginianum</i>	Rattlesnake fern		x				x	x			x	x	
<i>Dennstaedtia punctilobula</i> +	hay-scented fern			x				x	x		x	x	
<i>Dryopteris intermedia</i>	evergreen wood-fern		x	x			x	x			x	x	x
<i>Dryopteris marginalis</i>	marginal shield-fern		x	x			x	x				x	
<i>Onoclea sensibilis</i> +	sensitive fern		x	x				x	x			x	x
<i>Osmunda cinnamomea</i>	cinnamon fern		x	x			x	x				x	x
<i>Osmunda regalis</i>	royal fern		x	x				x				x	x
<i>Polystichium acrostichoides</i>	Christmas fern		x	x			x					x	
<i>Thelypteris palustris</i>	marsh fern		x					x	x			x	x
Grasses, Sedges, and Reeds													
<i>Agrostis perennans</i>	autumn bentgrass			x			x	x	x		x	x	x
<i>Andropogon gerardii</i>	big bluestem	x	x	x	x			x	x		x	x	
<i>Andropogon glomeratus</i>	bushy bluestem		x	x				x	x			x	x
<i>Andropogon virginicus</i>	broomsedge		x	x				x	x		x	x	x
<i>Arundinaria gigantea</i>	wild cane, river cane	x		x			x	x	x		x	x	x
<i>Calamagrostis canadensis</i>	bluejoint reedgrass	x		x				x	x			x	x
<i>Carex crinita</i> var. <i>crinita</i>	long hair sedge	x	x	x				x	x			x	x
<i>Carex lurida</i>	sallow sedge	x		x				x	x			x	x
<i>Carex pensylvanica</i>	Pennsylvania sedge	x		x			x	x	x		x	x	
<i>Carex plantaginea</i>	plantain-leaved sedge		x	x			x					x	
<i>Carex stricta</i>	tussock sedge	x		x				x	x			x	x
<i>Chasmanthium latifolium</i> (Uniola l.)	river oats, spanglegrass		x	x			x	x	x			x	
<i>Danthonia sericea</i>	silky oatgrass	x		x				x	x		x	x	
<i>Danthonia spicata</i>	poverty oatgrass	x		x			x	x	x		x	x	
<i>Dichanthelium clandestinum</i>	deer-tongue	x		x	x			x	x		x	x	x
<i>Dichanthelium commutatum</i>	variable panicgrass	x	x	x	x		x	x			x	x	
<i>Dulichium arundinaceum</i>	dwarf bamboo	x		x	x			x	x				x
<i>Elymus hystrix</i> (Hystrix patula)	bottlebrush grass	x	x				x	x	x		x	x	
<i>Elymus virginicus</i>	Virginia wild rye	x		x			x	x			x	x	

continued												
Scientific Name	Common Name	Uses				Light				Moisture		
		W	H	C	D	S	P	F		L	M	H
<i>Festuca rubra</i>	red fescue	x		x	x		x	x		x	x	
<i>Juncus effusus</i>	soft rush	x		x			x	x			x	x
<i>Leersia oryzoides</i>	rice cutgrass	x		x			x	x			x	x
<i>Panicum amarum</i>	coastal panic grass	x	x	x				x		x		
<i>Panicum virgatum</i>	switch grass	x	x	x			x	x		x	x	x
<i>scoparium</i>	little bluestem	x	x	x	x		x	x		x	x	
<i>Scirpus cyperinus</i>	woolgrass bulrush	x	x	x			x	x			x	x
<i>Sorghastrum nutans</i>	Indian grass	x	x	x	x		x	x		x	x	
<i>Sparganium</i>	American bur-reed	x		x			x	x				x
<i>Tridens flavus</i>	redtop	x	x	x	x		x	x		x	x	
<i>Tripsacum dactyloides</i>	gama grass	x	x	x	x		x	x			x	x
<i>Typha latifolia</i>	broad-leaved cattail	x		x				x			x	x
Vines												
<i>Bignonia capreolata</i>	cross vine	x	x				x	x			x	x
<i>Celastrus scandens</i>	climbing bittersweet	x	x				x	x	x		x	
<i>Clematis virginiana</i>	virgin's bower		x					x	x		x	
<i>Lonicera sempervirens</i>	trumpet honeysuckle		x	x				x			x	
<i>Parthenocissus quinquefolia</i>	Virginia creeper	x	x	x				x	x		x	
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Minimum Moisture Requirements

- L = Low Moisture  
M = Moderate Moisture  
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Native Ferns, Grasses & Vines



Native Shrubs													
Scientific Name	Common Name	Uses					Light				Moisture		
		W	H	C	D		S	P	F		L	M	H
Shrubs													
<i>Alnus serrulata</i>	common alder	x	x	x			x	x	x				x
<i>Aronia arbutifolia</i>	red chokeberry		x	x			x	x				x	x
<i>Aronia melanocarpa</i>	black chokeberry		x	x				x	x		x	x	x
<i>Castanea pumila</i>	Allegheny chinkapin	x	x	x			x	x	x		x		
<i>Ceanothus americanus</i>	New Jersey tea	x	x	x				x	x		x		
<i>Cephalanthus occidentalis</i>	buttonbush		x	x				x	x				x
<i>Clethra alnifolia</i>	sweet pepper-bush	x	x	x			x	x				x	x
<i>Cornus amomum</i>	silky dogwood	x		x			x	x				x	x
<i>Crataegus crus-galli</i>	cockspur hawthorn	x	x	x				x	x		x	x	
<i>Gaultheria procumbens</i>	wintergreen	x	x				x	x			x	x	
<i>Gaylussacia baccata</i>	black huckleberry	x	x	x			x	x			x	x	
<i>Gaylussacia frondosa</i>	dangleberry	x	x	x			x	x	x		x		
<i>Hamamelis virginiana</i>	witch hazel		x	x			x	x			x	x	
<i>Hydrangea arborescens</i>	wild hydrangea		x				x	x				x	
<i>Ilex glabra</i>	inkberry	x	x	x			x	x			x	x	
<i>Ilex verticillata</i>	winterberry	x	x	x				x	x			x	x
<i>Kalmia latifolia</i>	mountain laurel	x	x	x			x	x				x	
<i>Leucothoe racemosa</i>	fetterbush, sweetbells		x	x				x	x			x	
<i>Lindera benzoin</i>	spicebush	x	x	x			x					x	
<i>Pieris floribunda</i>	evergreen mountain fetterbush		x	x			x					x	
<i>Rhododendron calendulaceum</i>	flame azalea		x					x				x	
<i>Rhododendron catawbiense</i>	Catawba rhododendron		x	x				x	x			x	
<i>Rhododendron cumberlandense</i>	Cumberland flame azalea		x					x				x	
<i>Rhododendron maximum</i>	great rhododendron, rose bay	x	x	x			x	x				x	x
<i>Rhododendron periclymenoides</i>	pinxter flower		x	x			x	x				x	x
<i>Rhododendron prinophyllum</i>	rose azalea	x	x				x	x	x		x	x	
<i>Rhododendron viscosum</i> (R. <i>serrulata</i> )	swamp azalea		x	x				x	x			x	x
<i>Rhus aromatica</i>	fragrant sumac		x					x	x		x		
<i>Rhus copallinum</i>	winged sumac, flameleaf sumac	x	x	x			x	x			x		

continued													
Scientific Name	Common Name	Uses					Light				Moisture		
		W	H	C	D		S	P	F		L	M	H
<i>Rosa carolina</i>	pasture rose	x		x				x	x		x	x	
<i>allegheniensis</i>	Alleghany blackberry	x	x	x					x		x		
<i>Rubus odoratus</i>	purple flowering raspberry			x				x				x	
<i>Salix humilis</i>	prairie willow		x	x					x		x		
<i>Salix sericea</i>	silky willow		x	x				x	x			x	
<i>canadensis</i>	common elderberry	x	x	x					x			x	x
<i>Spiraea alba</i>	narrow-leaved	x	x	x					x			x	
<i>Spiraea latifolia</i>	broad-leaved meadowsweet	x	x	x					x			x	
<i>Stewartia</i>	silky camelia		x				x	x				x	
<i>Vaccinium angustifolium</i>	Northern lowbush blueberry	x	x	x					x		x		
<i>Vaccinium corymbosum</i> (V. <i>virgata</i> , <i>formosa</i> )	highbush blueberry	x	x	x			x	x	x		x	x	x
<i>Viburnum dentatum</i>	Southern arrow-wood viburnum	x	x	x				x	x		x	x	
<i>Viburnum nudum</i>	possum-haw viburnum		x	x			x	x					x
<i>Viburnum prunifolium</i>	black-haw viburnum	x	x	x				x	x			x	
+ May be aggressive in garden setting.													
* Due to the rarity and sensitivity of habitat in Virginia, these species are recommended for horticultural use only.													

Recommended Uses

- W = Wildlife  
H = Horticulture and Landscaping  
C = Conservation and Restoration  
D = Domestic Livestock Forage

Minimum Light Requirements

- S = Full Shade  
P = Partial Sun  
F = Full Sun

Minimum Moisture Requirements

- L = Low Moisture  
M = Moderate Moisture  
H = High Moisture

Native Shrubs





Native Herbs													
Scientific Name	Common Name	Uses					Light				Moisture		
		W	H	C	D		S	P	F		L	M	H
Herbs													
<i>Aster cordifolius</i>	heart-leaved aster		x	x				x	x			x	
<i>Aster divaricatus</i>	white wood aster	x	x	x				x	x			x	x
<i>Aster laevis</i>	smooth blue aster	x	x	x					x			x	
<i>Aster novae-angliae</i>	New England aster		x	x				x	x			x	x
<i>Aster pilosus</i>	white heath aster	x	x	x					x			x	
<i>Aster umbellatus</i>	flat-top white aster		x	x				x	x			x	x
<i>Baptisia australis</i> *	blue wild indigo	x	x					x	x			x	
<i>Baptisia tinctoria</i>	yellow wild-indigo	x	x					x	x			x	
<i>Bidens cernua</i> +	nodding beggar-ticks	x	x	x				x	x			x	x
<i>Caltha palustris</i>	marsh marigold		x	x				x	x				x
<i>Chamaecrista fasciculata</i> +	partridge pea			x					x			x	
<i>Chelone glabra</i>	white turtlehead		x	x				x	x				x
<i>Chrysogonum virginianum</i>	green and gold		x	x				x				x	
<i>Chrysopsis mariana</i> ( <i>Heterotheca m.</i> )	Maryland golden aster	x	x	x					x	x		x	
<i>Cimicifuga racemosa</i>	black cohosh		x					x	x			x	
<i>Clitoria mariana</i>	Maryland butterfly pea		x	x				x	x			x	
<i>Convallaria majuscula</i> ( <i>C. montana</i> )	American lily-of-the-valley			x				x	x				x
<i>Coreopsis tripteris</i>	tall coreopsis		x	x					x	x			x
<i>Coreopsis verticillata</i>	threadleaf coreopsis		x	x					x	x		x	
<i>Delphinium tricorne</i>	dwarf larkspur		x					x	x				x
<i>Desmodium paniculatum</i>	narrow-leaf tick trefoil	x			x			x				x	
<i>Dicentra cucullaria</i>	Dutchman's breeches		x					x					x
<i>Dicentra eximia</i>	wild bleeding heart		x						x	x		x	
<i>Dodecatheon meadia</i>	shooting star		x						x	x			x
<i>Equisetum hyemale</i>	horsetail, scouring rush				x			x	x	x			x
<i>Eupatorium coelestinum</i>	mistflower	x	x	x				x	x	x			x
<i>Eupatorium fistulosum</i>	Joe Pye weed	x	x	x					x	x			x
<i>Eupatorium perfoliatum</i>	common boneset				x				x	x			x
<i>Geranium maculatum</i>	wild geranium		x					x	x	x			x
<i>Helenium autumnale</i>	sneezeweed	x	x	x					x	x			x
<i>Helianthus decapetalus</i>	ten-petaled sunflower	x	x	x					x	x			x
<i>Helianthus divaricatus</i>	woodland sunflower	x	x	x					x			x	
<i>Heliopsis helianthoides</i>	oxeye sunflower	x	x	x					x	x			x
<i>Hepatica acutiloba</i>	sharp-lobed hepatica		x					x				x	x
<i>Hepatica americana</i>	round-lobed hepatica		x					x				x	x

# Native Herbs

continued

Scientific Name	Common Name	Uses					Light				Moisture		
		W	H	C	D		S	P	F		L	M	H
<i>Heuchera americana</i>	alumroot		x				x				x		
<i>Hibiscus moscheutos</i>	Eastern rosemallow	x	x	x					x				x
<i>Iris cristata</i>	dwarf crested iris		x				x	x				x	
<i>Lespedeza capitata</i>	round-head bush clover												
	grass-leaf blazing star	x		x					x		x		
<i>Liatris graminifolia</i>		x	x	x				x	x		x	x	
<i>Liatris spicata</i>	spiked blazing star	x	x	x				x	x			x	
<i>Lilium canadense</i>	Canada lily		x					x	x			x	x
<i>Lilium philadelphicum</i>	wood lily		x					x	x		x		
<i>Lilium superbum</i>	Turk's cap lily		x					x	x			x	x
<i>Lobelia cardinalis</i>	cardinal flower	x	x	x				x	x				x
<i>Lobelia siphilitica</i>	great blue lobelia	x	x	x			x	x					x
	lupine, sundial lupine												
<i>Lupinus perennis</i>			x					x	x		x		
<i>Maianthemum racemosum</i> ( <i>Smilacina r.</i> )	false Solomon's seal		x	x			x	x				x	
<i>Mertensia virginica</i>	Virginia bluebells		x	x			x	x				x	x
<i>Mimulus ringens</i>	monkeyflower		x	x					x				x
<i>Monarda didyma</i>	bee balm	x	x	x			x	x				x	
<i>Monarda fistulosa</i>	wild bergamot	x	x	x				x	x		x	x	
<i>Nymphaea odorata</i>	American water lily	x	x	x					x				x
<i>Oenothera fruticosa</i>	sundrops	x	x	x					x			x	x
<i>Opuntia humifusa</i> ( <i>O. compressa</i> )	Eastern prickly-pear	x	x	x					x		x		
	smooth beardtongue												
<i>Penstemon laevigatus</i>			x				x	x	x			x	
	woodland phlox, wild blue phlox		x	x				x			x	x	
<i>Phlox divaricata</i>													
	summer phlox, garden phlox		x	x				x	x			x	
<i>Phlox paniculata</i>			x	x									
<i>Phlox stolonifera</i>	creeping phlox		x	x			x	x				x	
<i>Phlox subulata</i>	moss phlox		x	x					x		x		
<i>Physostegia virginiana</i>	obedient plant		x	x				x	x			x	
<i>Podophyllum peltatum</i> +	mayapple	x	x	x				x	x			x	
<i>Polemonium reptans</i>	Jacob's ladder		x				x	x				x	
<i>Polygonatum biflorum</i>	Solomon's seal		x				x	x			x	x	
<i>Porteranthus trifoliatus</i> ( <i>Gillenia t.</i> )	bowman's root		x				x	x				x	
<i>Pycnanthemum incanum</i>	hoary mountain mint	x		x			x				x		
<i>Pycnanthemum tenuifolium</i>	narrow-leaved mountain mint	x	x	x				x	x		x	x	
	Virginia meadow-beauty												
<i>Rhexia virginica</i>		x		x					x				x
<i>Rudbeckia hirta</i>	black eyed Susan		x	x				x	x		x	x	
	cut-leaved coneflower												
<i>Rudbeckia laciniata</i>		x	x	x				x	x			x	
	three-lobed coneflower												
<i>Rudbeckia triloba</i>		x	x	x				x	x			x	
<i>Sagittaria latifolia</i>	broadleaf arrowhead	x	x	x					x				x



continued													
Scientific Name	Common Name	Uses					Light				Moisture		
		W	H	C	D		S	P	F		L	M	H
<i>Salvia lyrata</i> +	lyre-leaf sage			x				x	x		x		
<i>Sanguinaria canadensis</i>	bloodroot		x				x					x	
<i>Saururus cernuus</i>	lizard's tail		x	x				x	x				x
<i>Saxifraga virginiensis</i>	early saxifrage		x				x	x	x		x	x	
<i>Sedum tematum</i>	wild stonecrop		x				x	x				x	
<i>Senecio aureus</i> +	golden ragwort	x		x			x	x				x	x
<i>Senna marilandica</i>	Maryland wild		x	x				x			x	x	
<i>Silene virginica</i>	fire pink		x					x	x		x	x	
<i>Silphium perfoliatum</i>	cup plant	x		x			x	x	x			x	
<i>Solidago caesia</i>	bluestem goldenrod	x	x	x			x	x				x	
<i>Solidago odora</i>	sweet goldenrod	x	x	x				x	x		x		
<i>Solidago puberula</i>	downy goldenrod	x	x	x					x		x		
<i>Solidago rugosa</i> +	rough-stemmed goldenrod	x		x				x	x			x	
<i>Thalictrum dioicum</i>	early meadowrue		x				x					x	
<i>Tiarella cordifolia</i> var. <i>collina</i>	clumping foamflower		x				x					x	
<i>Tiarella cordifolia</i> var. <i>cordifolia</i>	spreading foamflower		x				x					x	
<i>Tradescantia virginiana</i>	Virginia spiderwort		x	x			x	x	x			x	
<i>Trillium erectum</i>	wakerobin		x				x					x	
<i>Trillium grandiflorum</i>	white trillium		x				x					x	
<i>Uvularia grandiflora</i>	bellwort		x				x					x	
<i>Verbena hastata</i>	blue vervain	x		x				x	x			x	x
<i>Vernonia noveboracensis</i>	New York ironweed	x	x	x				x	x				x
<i>Veronicastrum virginicum</i>	Culver's root		x	x				x	x		x	x	x
<i>Viola cucullata</i>	marsh blue violet	x	x	x				x	x				x
<i>Viola pedata</i>	bird's foot violet	x	x					x	x		x		
<i>Viola pubescens</i> (V. <i>pennsylvanica</i> )	yellow violet	x	x	x			x	x				x	
<i>Yucca filamentosa</i>	common yucca	x	x						x		x		
+ May be aggressive in garden setting.													
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Native Herbs





Highly Invasive Species

Ailanthus altissima	Tree-of-heaven
Alliaria petiolata	Garlic mustard
Alternanthera philoxeroides	Alligator weed
Ampelopsis brevipedunculata	Porcelain-berry
Carex kobomugi	Asiatic sand sedge
Celastrus orbiculata	Oriental bittersweet
Centaurea dubia	Short-fringed knapweed
Centaurea biebersteinii	Spotted knapweed
Cirsium arvense	Canada thistle
Dioscorea oppositifolia	Chinese yam
Elaeagnus umbellata	Autumn olive
Euonymus alata	Winged burning bush
Hydrilla verticillata	Hydrilla
Imperata cylindrica	Cogon grass
Lespedeza cuneata	Chinese lespedeza
Ligustrum sinense	Chinese privet
Lonicera japonica	Japanese honeysuckle
Lonicera morrowii	Morrow's honeysuckle
Lonicera standishii	Standish's honeysuckle
Lythrum salicaria	Purple loosestrife
Microstegium vimineum	Japanese stilt grass
Murdannia keisak	Aneilema
Myriophyllum aquaticum	Parrot feather
Myriophyllum spicatum	European water-milfoil
Phragmites australis	Common reed
Polygonum cuspidatum	Japanese knotweed
Polygonum perfoliatum	Mile-a-minute
Pueraria montana	Kudzu vine
Ranunculus ficaria	Lesser celandine
Rosa multiflora	Multiflora rose
Rubus phoenicolasius	Wineberry
Sorghum halepense	Johnson-grass

Moderately Invasive Species

Acer platanoides	Norway maple
Agropyron repens	Quack grass
Agrostis tenuis	Rhode Island bent-grass

Akebia quinata
Albizia julibrissin
Allium vineale
Artemisia vulgaris
Arthraxon hispidus
Arundo donax
Berberis thunbergii
Carduus nutans
Cassia obtusifolia
Centaurea jacea
Cirsium vulgare
Convolvulus arvensis
Dipsacus laciniatus
Dipsacus sylvestris
Egeria densa
Euonymus fortunei
Festuca elatior (F. pratensis )
Foeniculum vulgare
Glechoma hederacea
Hedera helix
Holcus lanatus
Humulus japonicus
Ipomoea hederacea
Ipomoea purpurea
Iris pseudacorus
Ligustrum obtusifolium
Lonicera maackii
Lonicera tatarica
Lysimachia nummularia
Melia azedarach
Paulownia tomentosa
Phleum pratense
Phyllostachys aurea
Poa compressa
Poa trivialis
Polygonum cespitosum
Populus alba
Rumex acetosella

Five-leaf akebia
Mimosa
Wild onion
Mugwort
Jointed grass
Giant reed
Japanese barberry
Musk thistle
Sickle pod
Brown knapweed
Bull-thistle
Field-bindweed
Cut-leaf teasel
Common teasel
Brazilian water-weed
Wintercreeper
Tall fescue
Fennel
Gill-over-the-ground
English ivy
Velvet-grass
Japanese hops
Ivy-leaved morning-glory
Common morning-glory
Yellow flag
Blunt-leaved privet
Amur honeysuckle
Tartarian honeysuckle
Moneywort
China-berry
Princess tree
Timothy
Golden bamboo
Canada bluegrass
Rough bluegrass
Bristled knotweed
White poplar
Red sorrel

Rumex crispus
Setaria faberi
Spiraea japonica
Stellaria media
Veronica hederifolia
Wisteria sinensis
Xanthium strumarium

Occasionally Invasive Species

Agrostis gigantea
Ajuga reptans
Arrhenatherum elatius
Commelina communis
Conium maculatum
Coronilla varia
Dactylis glomerata
Elaeagnus angustifolia
Elaeagnus pungens
Eragrostis curvula
Euphorbia esula
Ipomoea coccinea
Lapsana communis
Lespedeza bicolor
Lonicera fragrantissima
Lonicera x bella
Lotus corniculatus
Melilotus alba
Melilotus officinalis
Miscanthus sinensis
Morus alba
Pastinaca sativa
Perilla frutescens
Trapa natans
Ulmus pumila
Viburnum dilatatum
Vinca minor & V. major
Wisteria floribunda

Curled dock
Giant foxtail
Japanese spiraea
Common chickweed
Ivy-leaved speedwell
Chinese wisteria
Common cocklebur

Redtop
Bugleweed
Oatgrass
Common dayflower
Poison hemlock
Crown-vetch
Orchard grass
Russian olive
Thorny elaeagnus
Weeping lovegrass
Leafy spurge
Red morning-glory
Nipplewort
Shrubby bushclover
Sweet breath of spring
Bell's honeysuckle
Birdsfoot trefoil
White sweet clover
Yellow sweet clover
Silver grass
White mulberry
Wild parsnip
Beefsteak plant
Water chestnut
Siberian elm
Linden viburnum
Periwinkle
Japanese wisteria

List provided by the Department of Conservation and Recreation

Invasive Alien Plant Species of Virginia

