





NEW JERSEY AUDUBON GARDENING FOR WILDLIFE

Designing Your Garden Space Part 2

Presented by
Gretchen Whitman, Education Department

Sanctuary Director – Nature Center of Cape May



- Gretchen Whitman
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- BS in Biology, Rutgers University
- Environmental Education – 25 yrs
- Wildlife Gardening
- Gardener since a teen
- Master Gardener
- Landscape Designer – Amateur

IN THIS WEBINAR

- Landscape design considerations
- Examples of good design
- Simple design techniques – putting pen to paper

CREATING THE ESSENTIAL COMPONENTS OF A HABITAT

- Food
- Water
- Cover
- Places to Raise Young
- Use Sustainable Practices



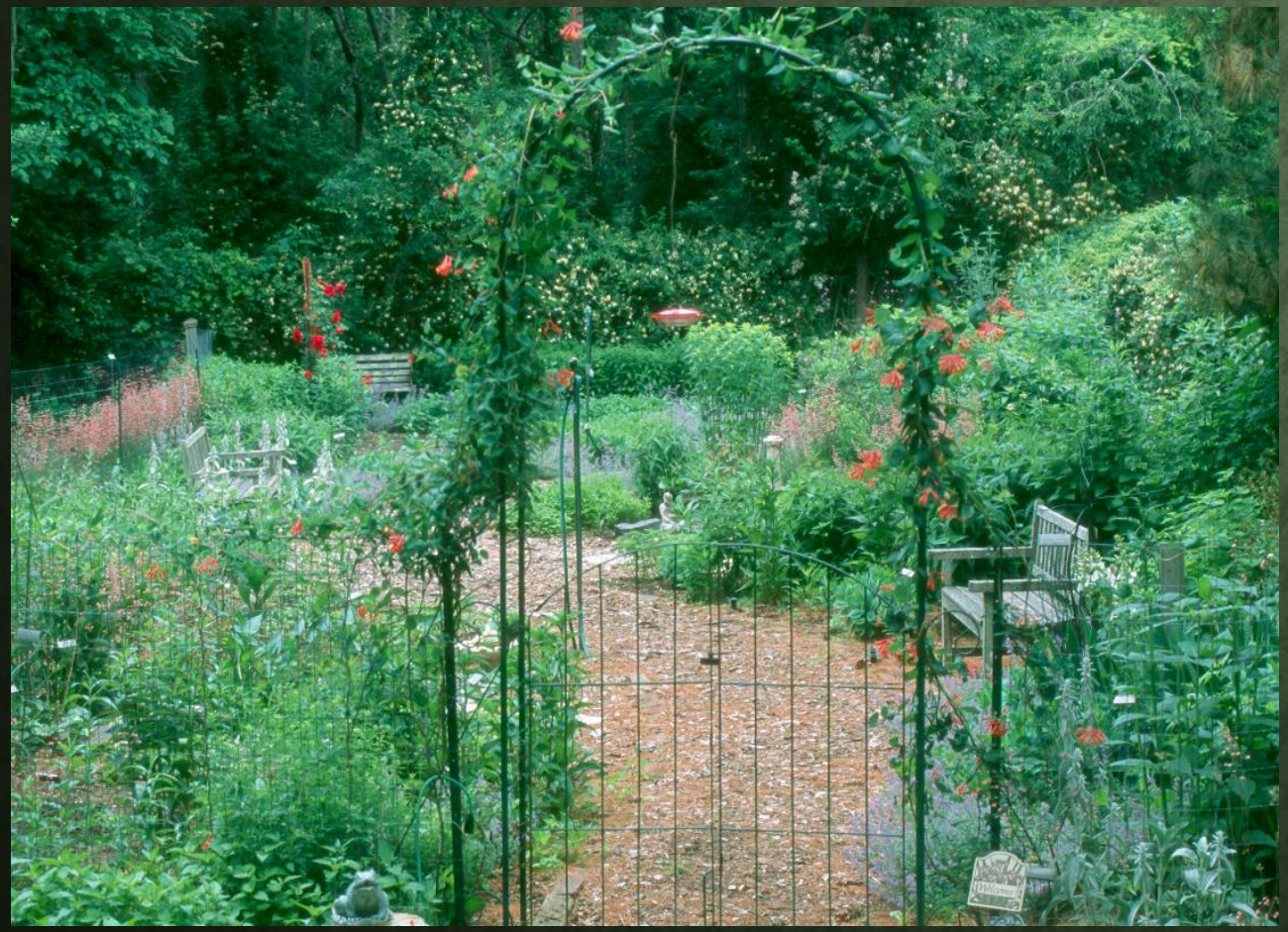
EVALUATION OF NEEDS

Landscaping YOUR space

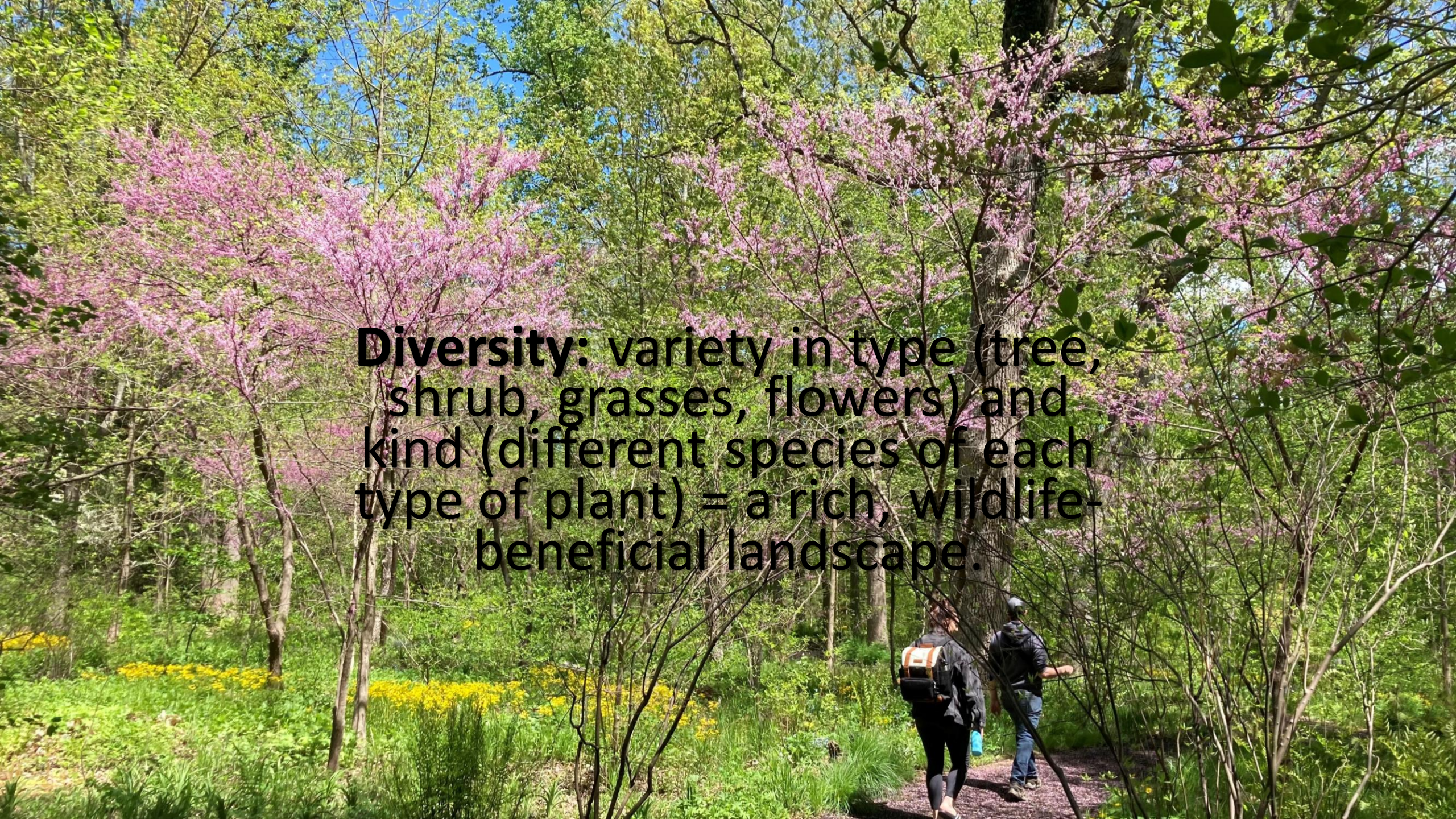


- What uses do you need from your property to gain the most benefit for you personally or for your community?
- What are your design preferences?
- How much time, energy, expense are you willing to invest in creation and maintenance?
- How can you blend your needs with the needs of wildlife?

MIMICKING NATURE: LEARNING FROM BASIC ECOLOGICAL CONCEPTS



- Diversity
- Ecotones
- Layering
- Cluster planting
- Corridors
- Seasonality
- Existing site conditions


Diversity: variety in type (tree, shrub, grasses, flowers) and kind (different species of each type of plant) = a rich, wildlife-beneficial landscape.


DIVERSITY ? NOPE
NATIONAL WILDLIFE FEDERATION
GARDEN FOR WILDLIFE™
Lawns are monocultures, basically wastelands for wildlife. How much open space for recreation do you really need?



GARDEN FOR WILDLIFE™

DIVERSITY ? YES

The lawn area is minimized and the variety of plant species is increased to provide food, cover and places to raise young. Plus, its beautiful!

Elements of a Bird-Friendly Yard



Snags provide nesting locations for woodpeckers and other cavity-nesting species.

Vines provide nesting locations; many produce berries.

Shrubs provide cover, nectar, and berries; provide nesting locations; attract insects.

Wildflowers attract pollinators and insects; produce nectar and seeds.

Grasses provide cover and seeds; attract insects; provide nesting materials.

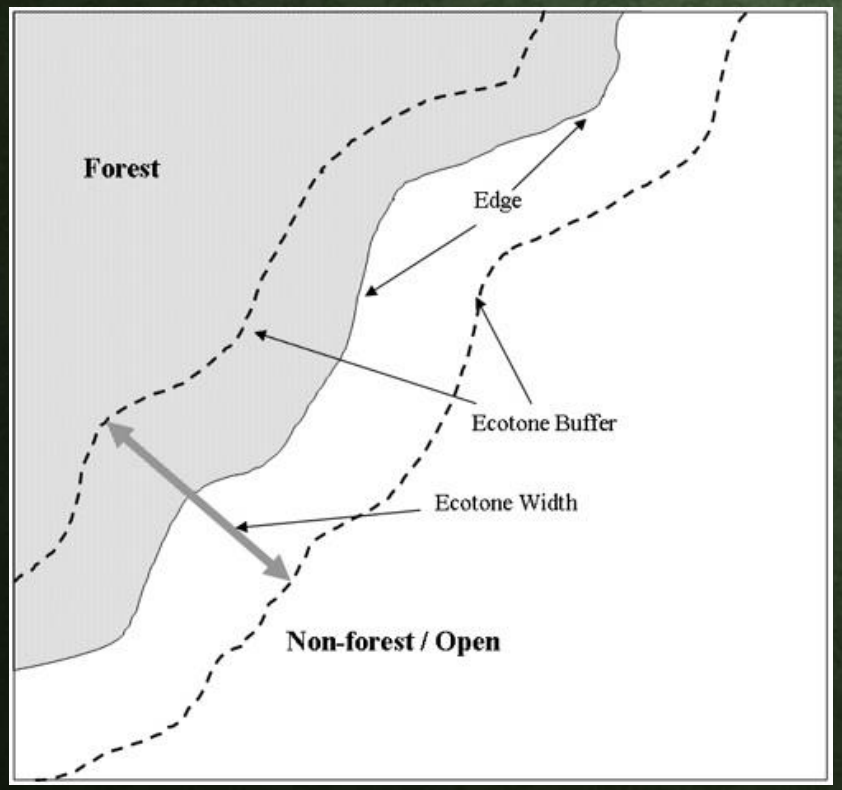
Nectar Plants attract hummingbirds and other pollinators.

Canopy Trees provide nest locations, nectar, berries, mast; attract insects.

Ground Covers attract insects; many produce nectar and berries.

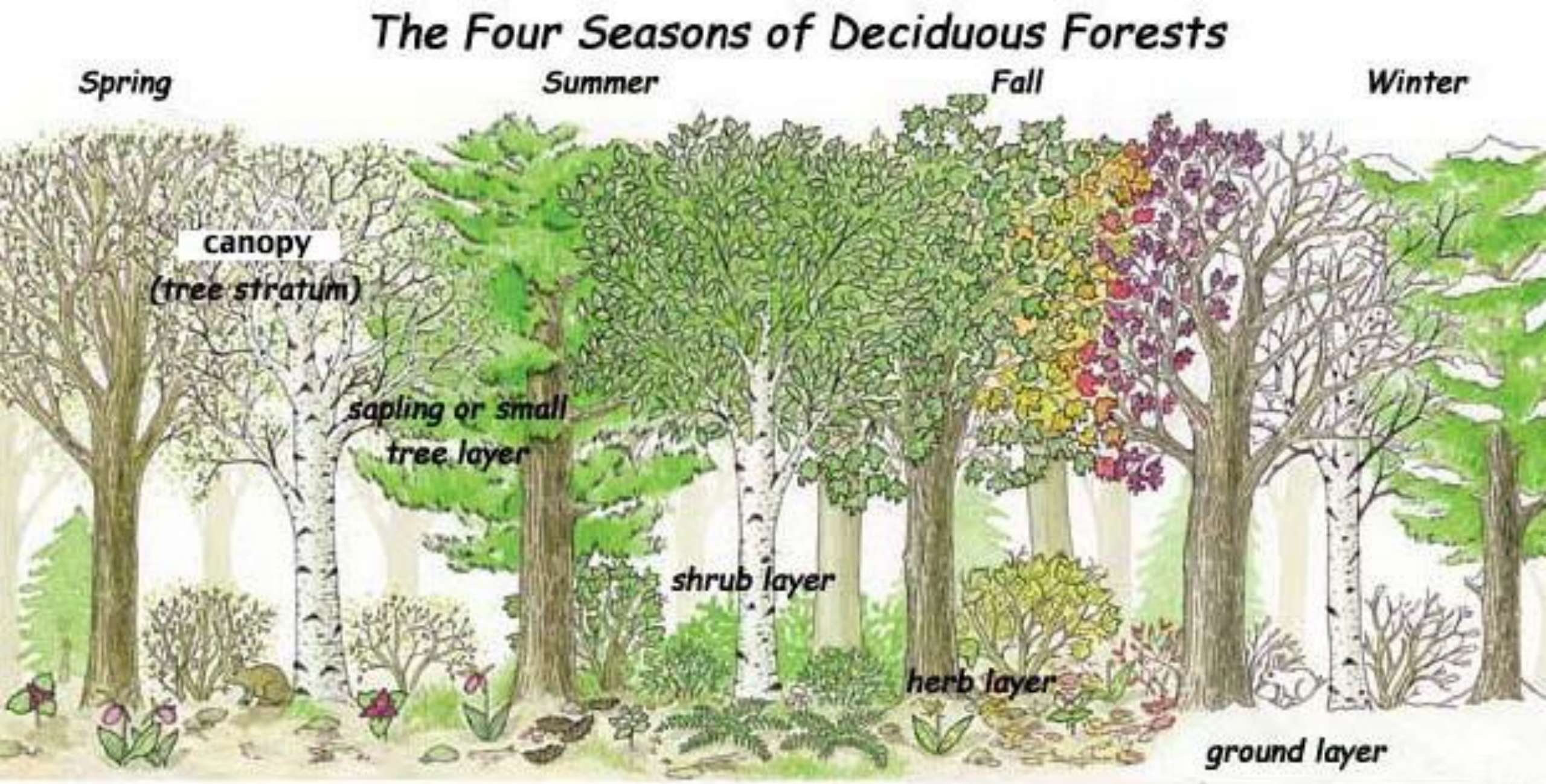
Water attracts birds of all kinds. A moving water feature such as a waterfall is very enticing to birds.

ECOTONE: A TRANSITION BETWEEN TWO ECOSYSTEMS OR BIOMES. IT CONTAINS A LARGE VARIETY OF SPECIES OF FAUNA AND FLORA AS THE AREA IS INFLUENCED BY BOTH THE BORDERING AREAS.






Layering: Mimic the vertical structure of the natural landscape.


The Four Seasons of Deciduous Forests
Spring
Summer
Fall
Winter
canopy
(tree stratum)
sapling or small
tree layer
shrub layer
herb layer
ground layer
subterranean laye



TREE

SHRUB

HERBACEOUS LAYER

NWF.ORG/GARDEN

CLUSTER PLANTING







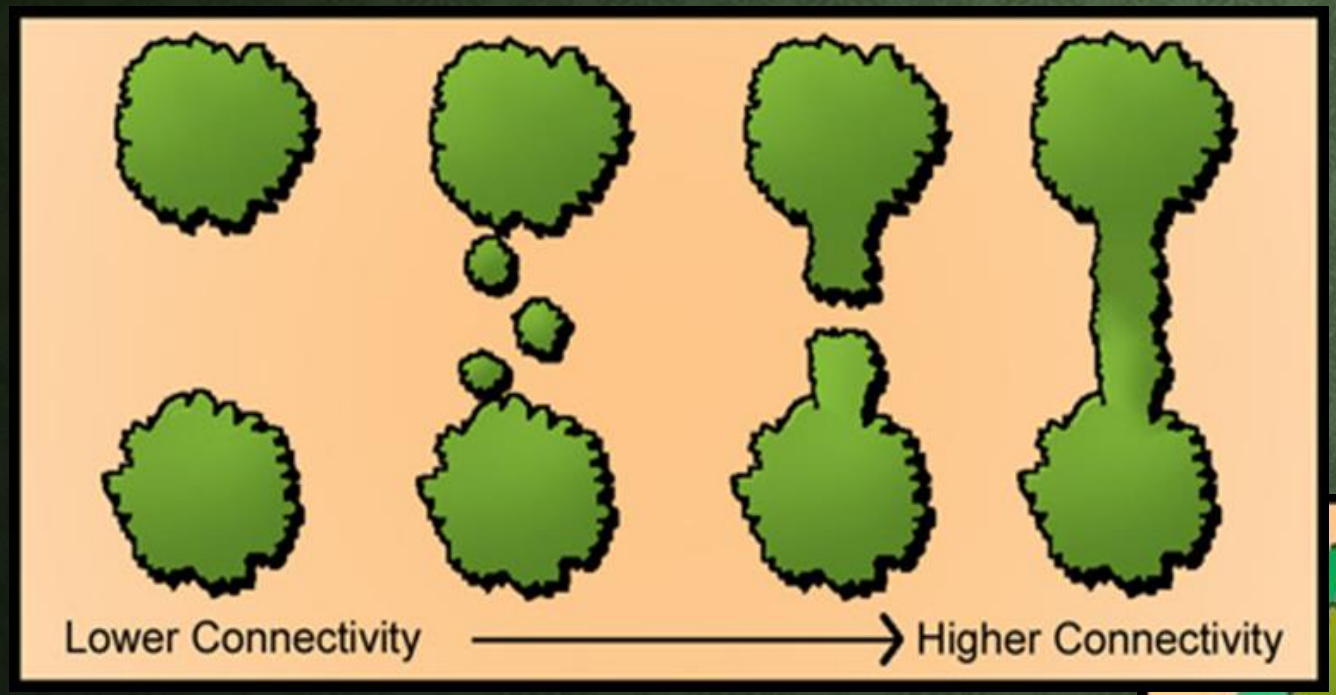
The vision of insect pollinators including butterflies and bees is very pixelated. By planting in clusters and in masses, there is a greater chance of drawing them in by these large pops of color



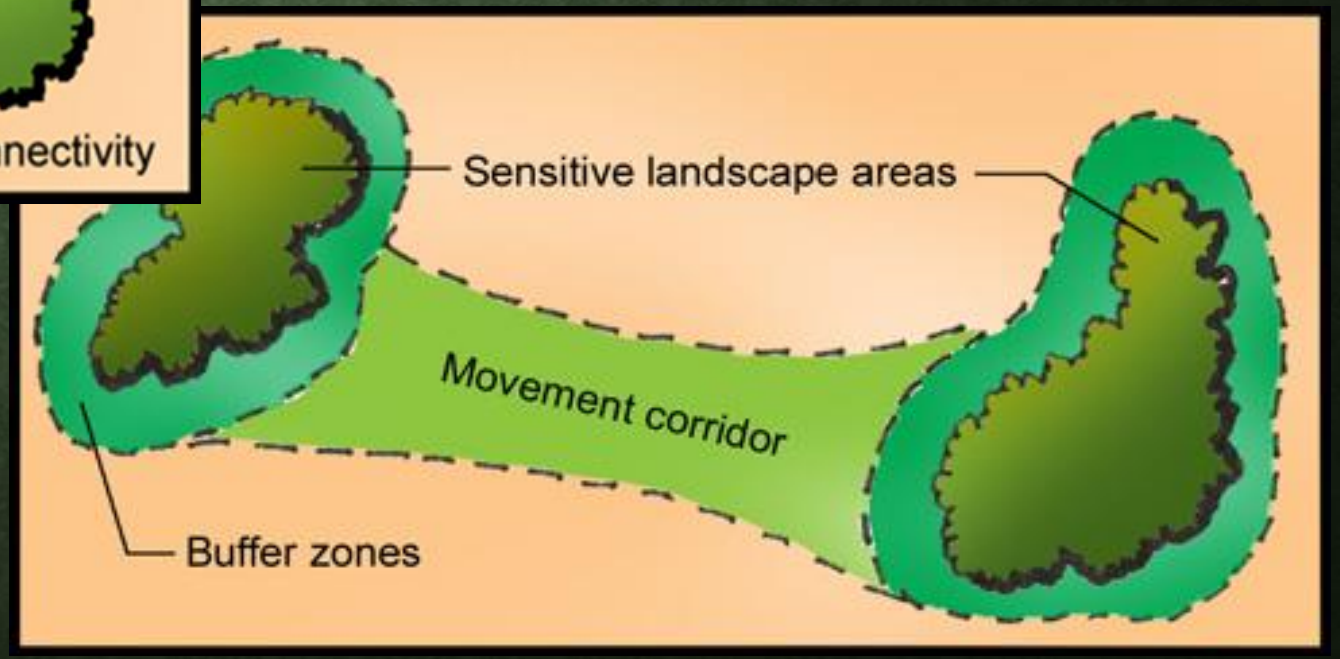
DRIFTS OF COLOR AND CLUSTERS OF THE SAME PLANT SPECIES



CONNECTIVITY – CREATING CORRIDORS



Increase Habitat Connectivity in Communities





Coral honeysuckle in HOA common area attracts hummingbirds



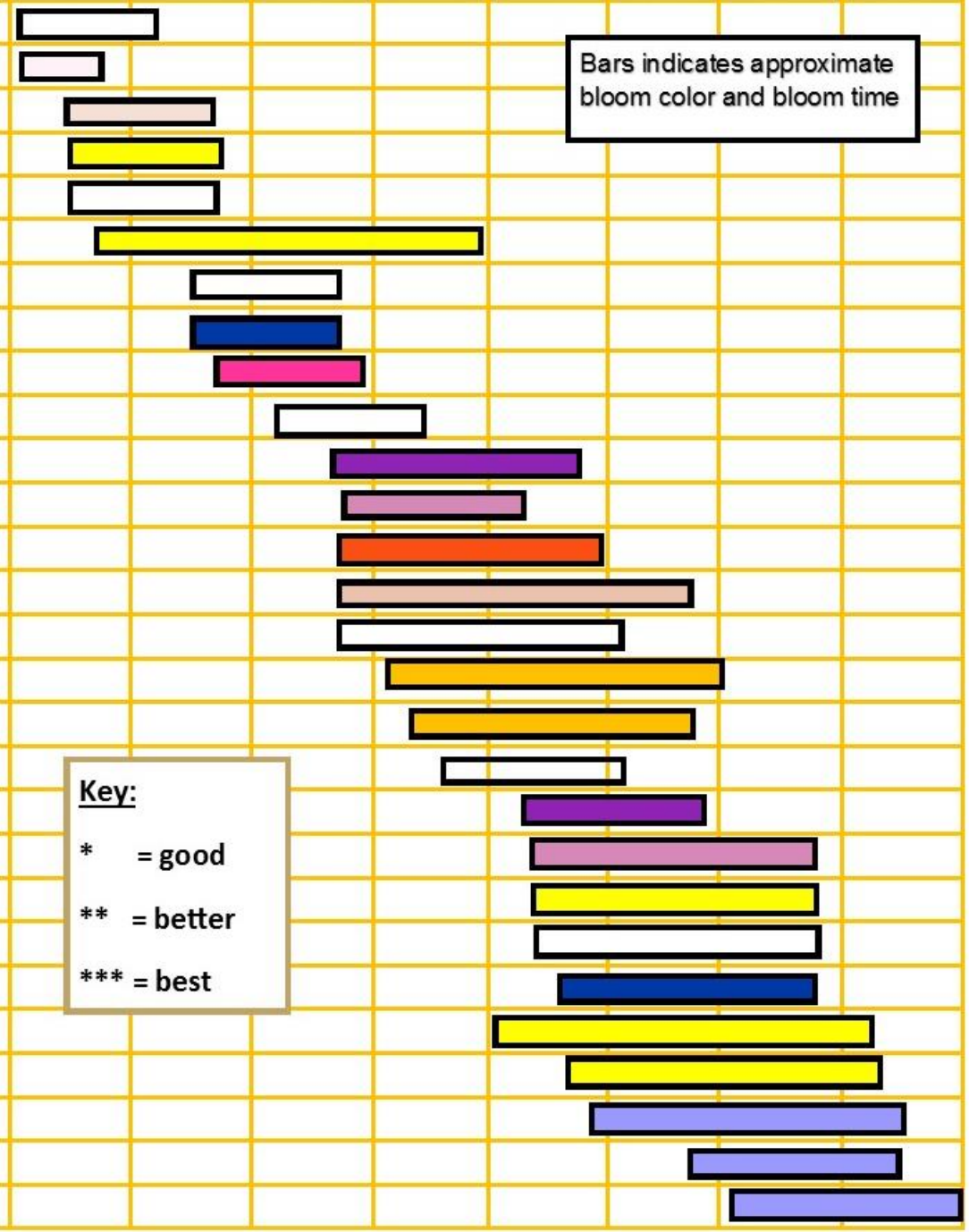
Private back deck of one of the HOA units with container plants and a hummingbird feeder to draw in the hummers.

Seasonality

When designing your landscape ensure variety throughout the season by choosing plants that bloom in different seasons.



Common Name	Scientific Name	enemies	Bees
Wild Strawberry	*Fragaria virginiana*	**	*
American Plum	*Prunus americanus*	**	**
Penstemons	*Penstemon ssp*	**	**
Golden Alexanders	*Zizia aurea*	***	***
Dogwoods (native)	*Cornus spp*	**	**
Lanceleaf Coreopsis	*Coreopsis lanceolata*	***	*
Elderberry	*Sambucus nigra-canadensis*	***	**
Blue Baptisia	*Baptisia australis*	**	**
Swamp Milkweed	*Aesclepias incarnata*	**	**
Culver's Root	*Veronicastrum virginicum*	**	***
Anise Hyssop	*Agastache foeniculum*	***	***
Beebalm	*Monarda fistulosa*	***	**
Butterfly Milkweed	*Asclepias tuberosa*	***	**
Spotted Beebalm	*Monarda punctata*	***	**
Narrowleaf Mountain Mint	*Pycnanthemum tenuifolium*	***	***
Black-eyed Susan	*Rudbeckia fulgida*	**	***
Ox-eye Sunflower	*Heliopsis helianthoides*	**	**
Buttonbush	*Cephalanthus occidentalis*	**	**
Ironweed	*Vernonia gigantea*	**	**
Joe Pyeweed	*Eutrochium spp*	***	***
Cup Plant	*Silphium perfoliatum*	***	***
Boneset	*Eupatorium perfoliatum*	***	**
Blue Lobelia	*Lobelia silphilitica*	***	***
Sunflowers (perennials)	*Helianthus spp*	***	**
Goldenrods	*Solidago spp.*	***	***
New England Aster	*Symphyotrichum novae-angliae*	***	**
Smooth Aster	*Symphyotrichum laevis*	**	**
Aromatic Aster	*Symphyotrichum oblongifolium*	**	**



EXISTING SITE CONDITIONS



SUNLIGHT: FULL SUN, PARTIAL OR SHADE

SOIL: TEXTURE OF SOIL – SAND, CLAY, LOAM

WETNESS: WELL DRAINED OR POORLY DRAINED

WIND: WINDY OR SHELTERED

NATURAL HABITAT OR MAN-ALTERED

TO RECAP WHAT MOTHER NATURE TELLS US:

- Diversity
- Ecotones
- Layering
- Cluster planting
- Corridors
- Seasonality
- Existing conditions




Examples of good design

THE MEADOWS AT CAPE ISLAND



The Meadows at Cape Island
Cape May, NJ




DO NOT SPRAY
Pollinator Garden


603





We can do better: eliminate invasive species, add new native plants and adopt more sustainable eco-friendly landscaping maintenance practices







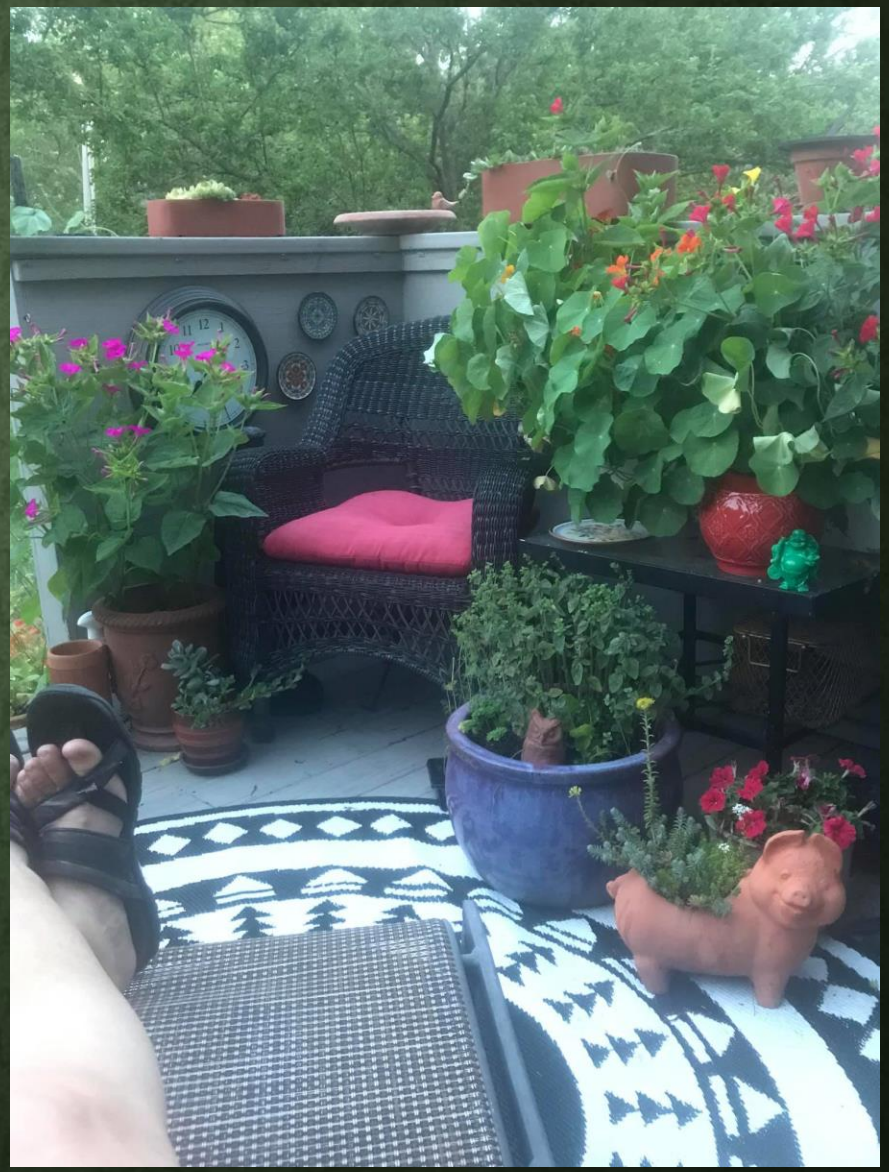


DECK AND BALCONY HABITATS












SPRAY








266
266
Welcome


66

Let’s Design!

How to begin.....

- **Base plan**

- Survey of property
- Aerial photograph
- Google Earth or drone photo
- Measurements and sketch on graph paper

- Gather your notes and drawing supplies

- Pencils and erasers
- White-out
- Rulers and design templates



USE PHOTOGRAPHS





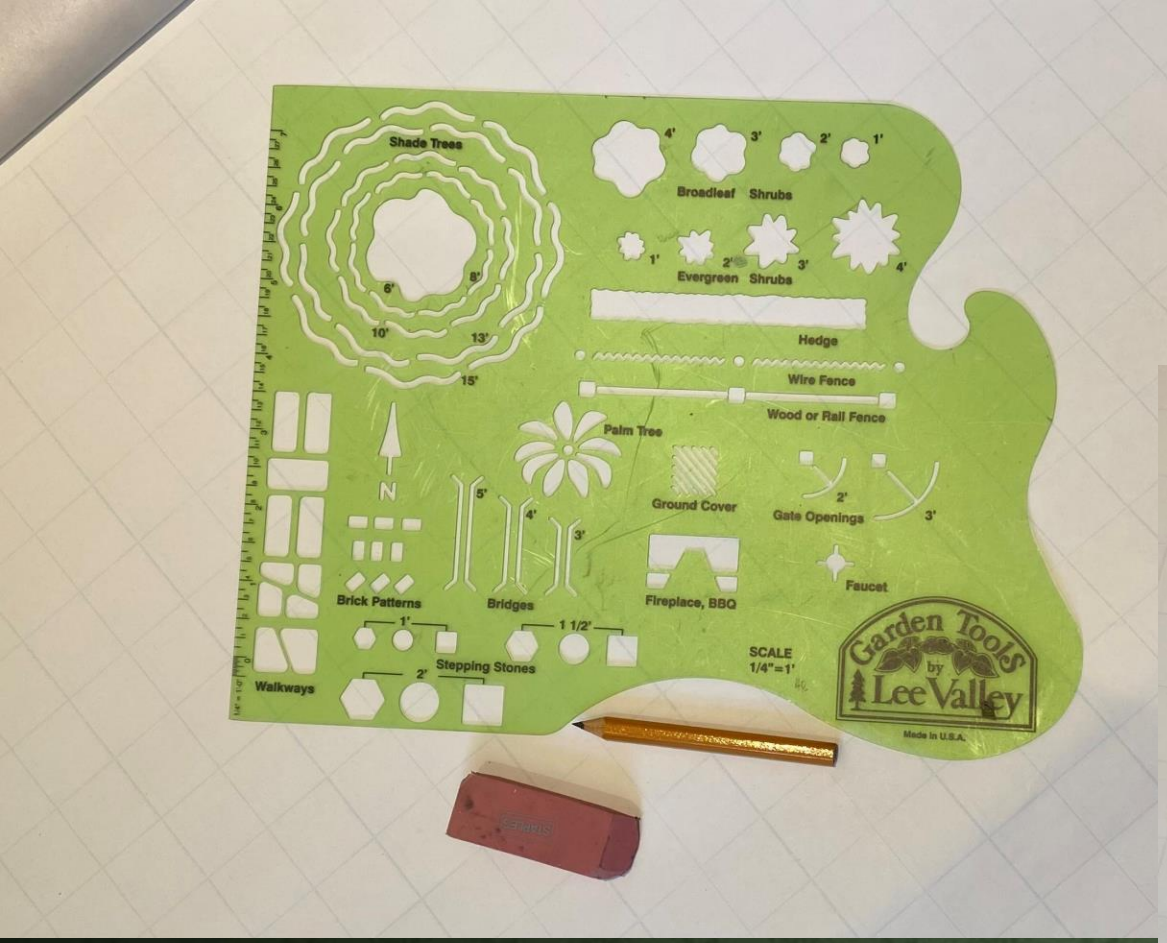


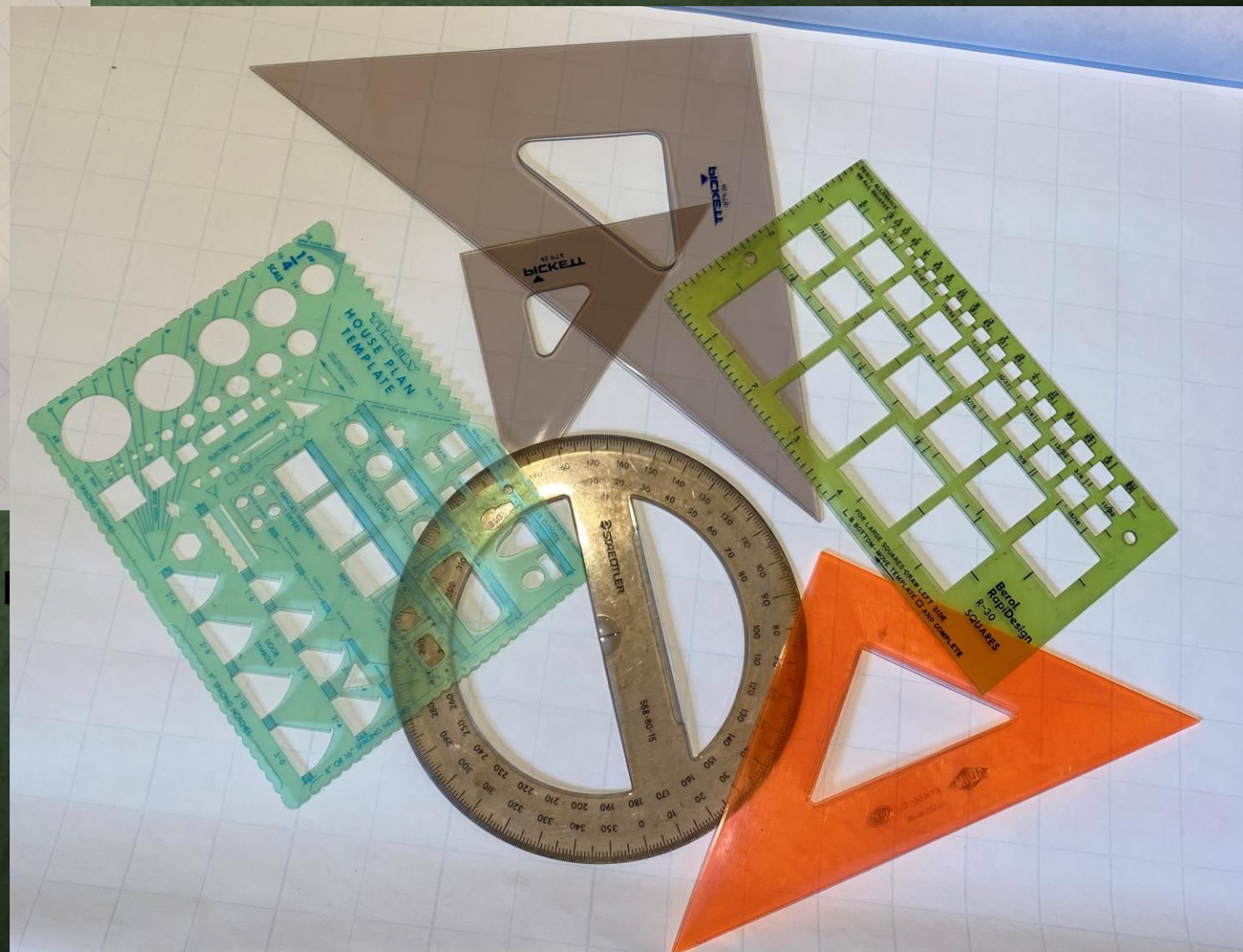
Village Green
neighborhood
Cape May, NJ


1225



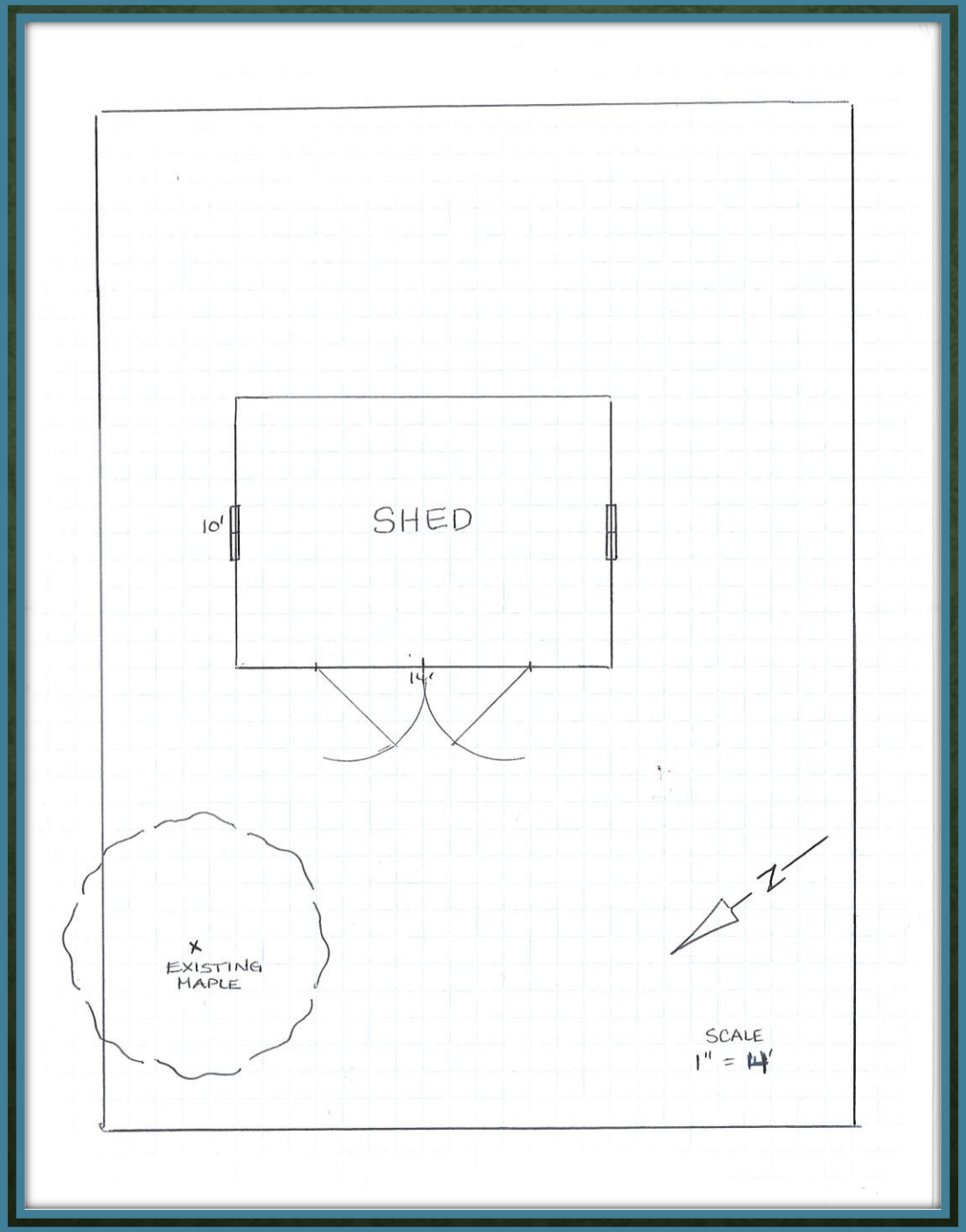

Use computer design programs like paint



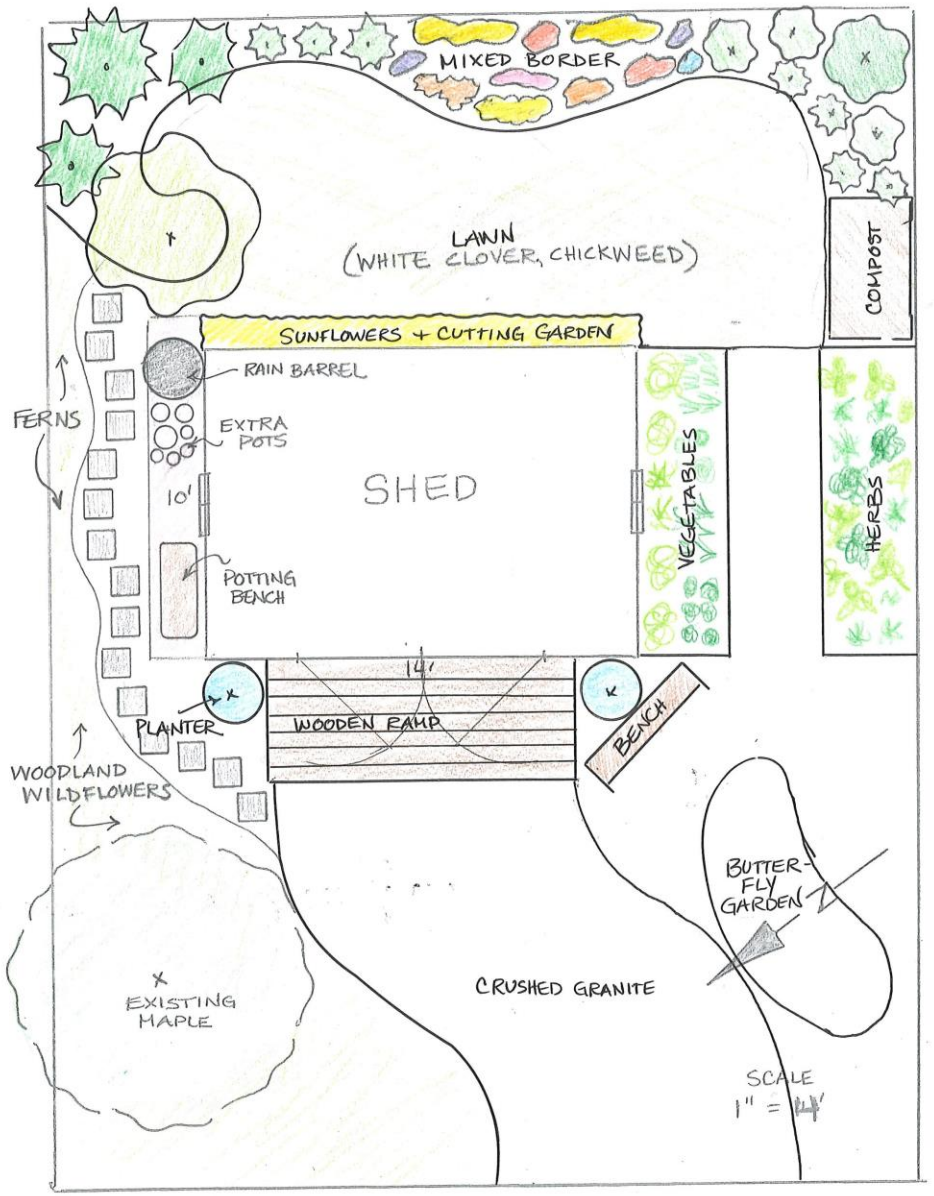


DESIGN TOOLS





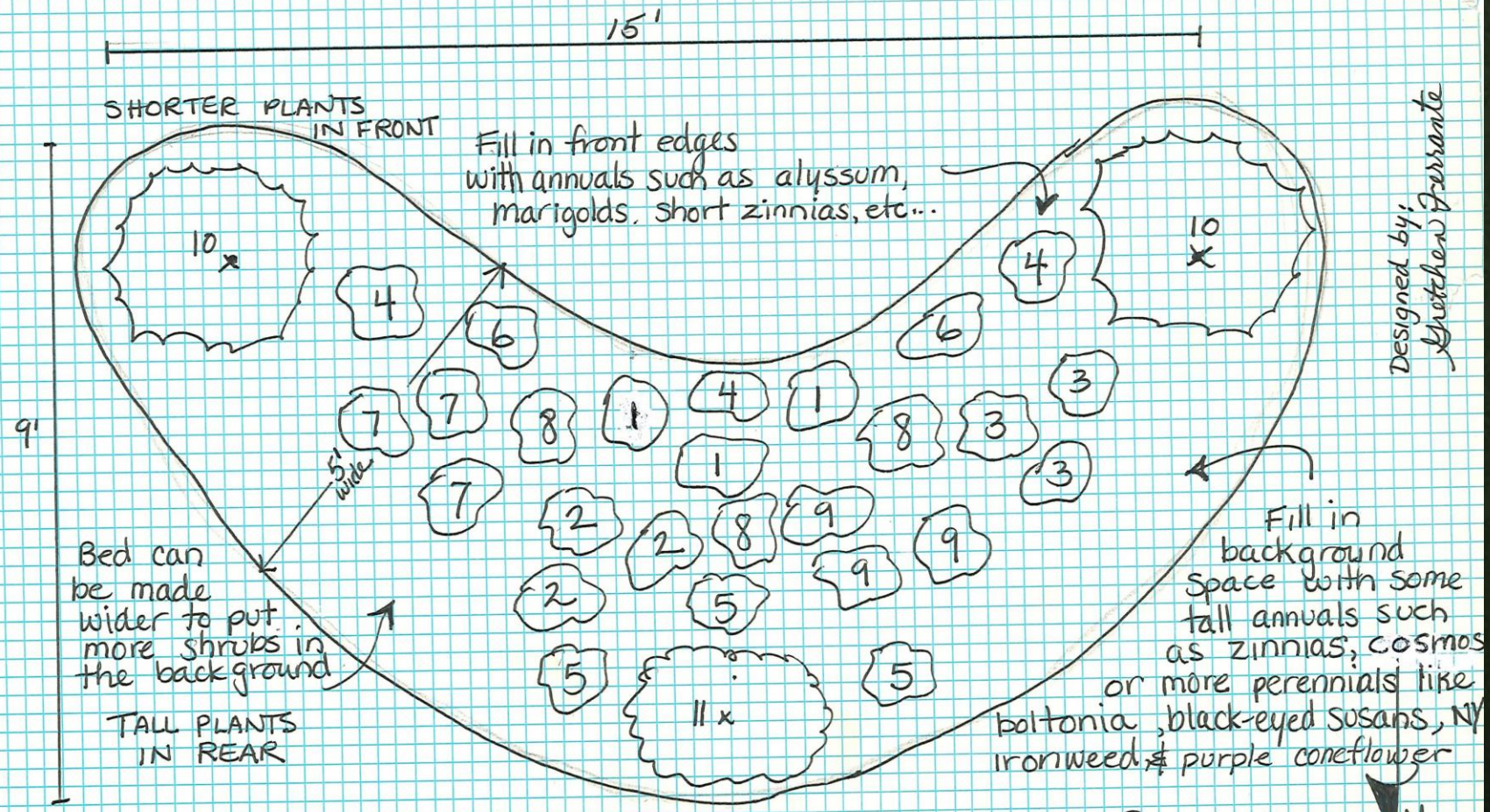
USE A SURVEY OR CREATE A SIMPLE PLOT PLAN


MIXED BORDER
LAWN
(WHITE CLOVER, CHICKWEED)
COMPOST
SUNFLOWERS + CUTTING GARDEN
RAIN BARREL
EXTRA POTS
FERNS
SHED
10'
POTTING BENCH
VEGETABLES
HERBS
14'
PLANTER
WOODEN RAMP
BENCH
WOODLAND WILDFLOWERS
BUTTER-FLY GARDEN
EXISTING MAPLE
CRUSHED GRANITE
SCALE
1" = 4'

NEW JERSEY AUDUBON SOCIETY

2005 NATURE CENTER OF CAPE MAY'S BUTTERFLY GARDEN SAMPLE DESIGN

VERSION 1 (CRESCENT SHAPE)



Designed by: Matthew Passante

KEY

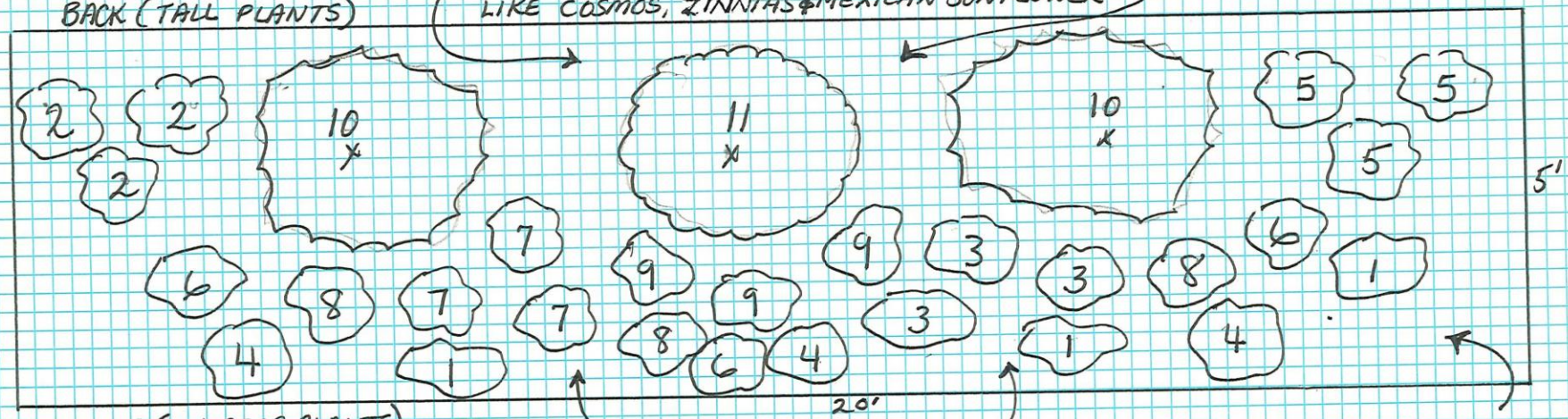
1. red yarrow
2. swamp milkweed
3. asters
4. coreopsis
5. joe pye weed
6. blanketflower
7. beebalm
8. gay feather
9. giant hyssop
10. butterfly bush
11. spicebush

NEW JERSEY AUDUBON SOCIETY

2005 NATURE CENTER OF CAPE MAY'S BUTTERFLY GARDEN SAMPLE DESIGN

VERSION 2
(STRAIGHT ROW FOR AGAINST A WALL, FENCE, OR WALKWAY)

FOR THE FIRST COUPLE OF YEARS UNTIL THE SHRUBS GROW & TOUCH EACH OTHER, FILL SPACES WITH TALL ANNUALS LIKE COSMOS, ZINNIAS & MEXICAN SUNFLOWER



FILL IN WITH SHORTER ANNUALS SUCH AS ALYSSUM MARIGOLDS, SHORT ZINNIAS

FILL ENDS WITH MEDIUM HEIGHT ANNUALS SUCH AS ZINNIAS, VERBENA, PENTAS OR OTHER PERENNIALS LIKE BUTTERFLY WEED

KEY

1. red yarrow
2. swamp milkweed
3. asters
4. coreopsis
5. joe pye weed
6. blanketflower
7. beebalm
8. gayfeather
9. giant hyssop
10. butterfly bush
11. spicebush

★ ALSO CONSIDER ADDING CATERPILLAR PLANTS SUCH AS FENNEL & PARSLEY

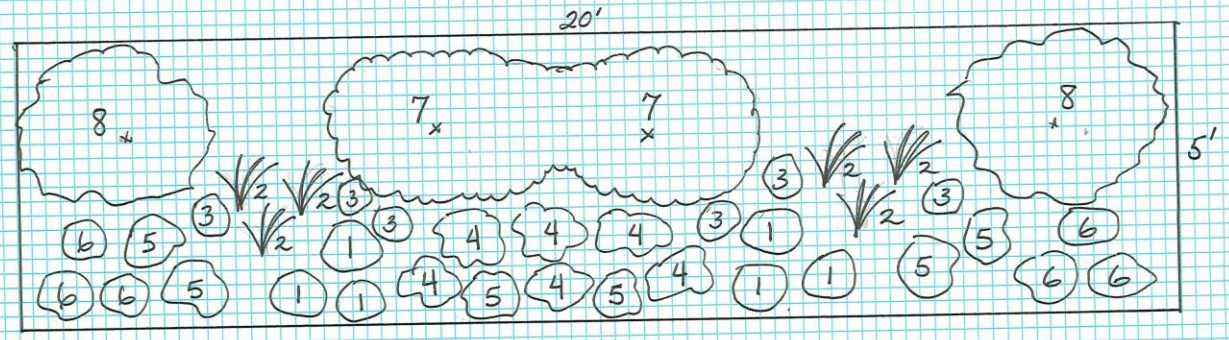
★ NOTE: THIS DESIGN CAN BE REPEATED OVER AND OVER ALONG ITS LENGTH FOR A LONG BORDER. OTHER SHRUBS CAN ALSO BE ADDED SUCH AS GLOSSY ABELIA, SWEET PEPPERBUSH AND LILAC.

Designed by:
Gretchen Ferrante

2005 NATURE CENTER OF CAPE MAY'S
SEASIDE GARDEN
SAMPLE DESIGN

VERSION 2
(STRAIGHT ROW FOR AGAINST A WALL, FENCE OR WALKWAY)

FILL IN WITH TALL ANNUALS SUCH AS MEXICAN SUNFLOWER OR COSMOS, CLEOME



KEY

1. Black-eyed Susan
2. coastal panicgrass
3. goldenrod
4. purple coneflower
5. blanketflower
6. sea lavendar
7. bayberry bush
8. beach plum

FILL IN SPACES WITH ANNUALS FOR THE FIRST FEW YEARS. SUGGESTED ANNUALS ARE:

- WAX BEGONIA
- MARIGOLDS
- BACHELOR'S BUTTONS
- COSMOS
- HELIOTROPE
- LANTANA
- NICOTIANA
- PORTULACA
- SALVIA

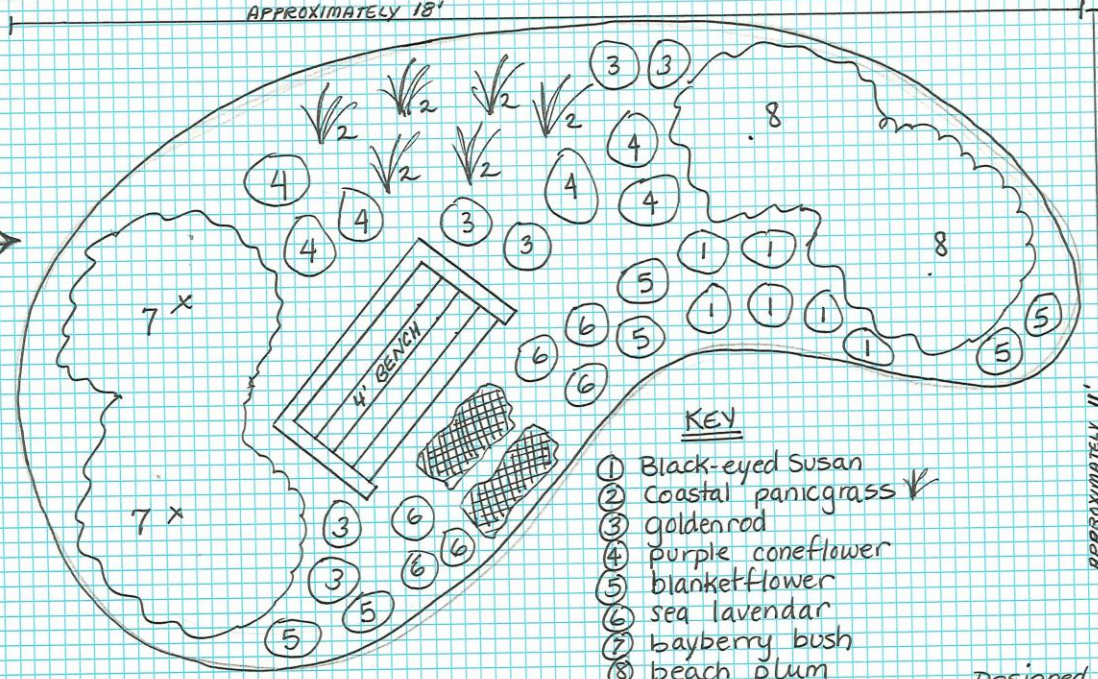
OTHER PERENNIALS:

- SEDUM 'AUTUMN JOY'
- RUSSIAN SAGE
- MONTAUK DAISY
- YARROW
- BUTTERFLY WEED
- BLANKET FLOWER

Designed by: Gretchen Ferrante

2005 NATURE CENTER OF CAPE MAY'S
SEASIDE GARDEN
SAMPLE DESIGN

VERSION 1
(ISLAND BED)



KEY

1. Black-eyed Susan
2. coastal panicgrass
3. goldenrod
4. purple coneflower
5. blanketflower
6. sea lavendar
7. bayberry bush
8. beach plum
- stepping stone

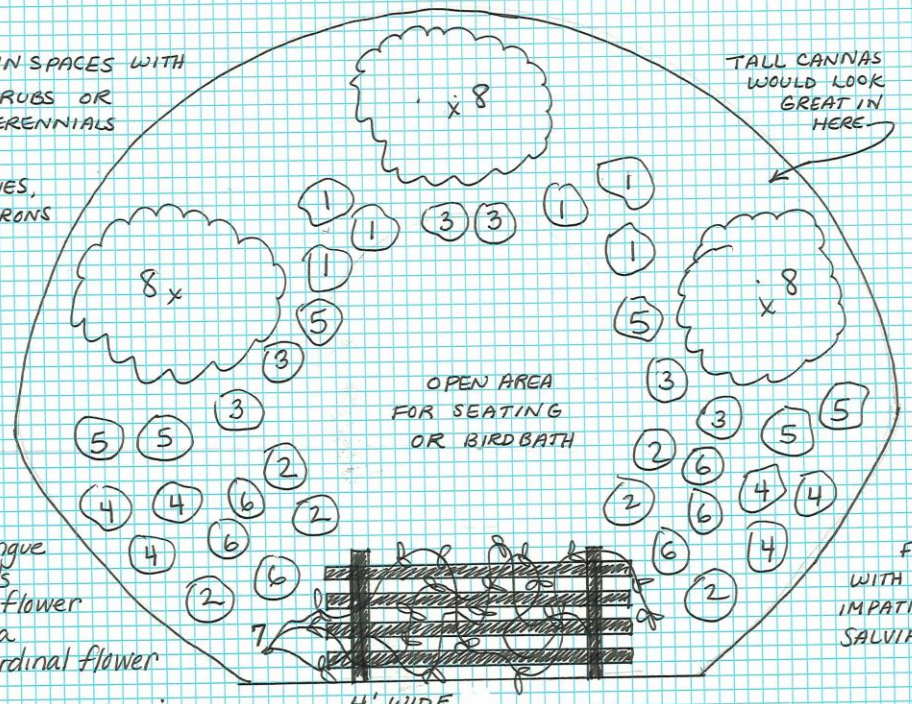
NOTE: MULCH BED WELL FOR WATER CONSERVATION. FILL IN BARE SPOTS WITH ANNUALS (SEE VERSION #2 FOR LIST OF SUGGESTED PLANTS)

Designed by: Gretchen Ferrante

NEW JERSEY AUDUBON SOCIETY

2005 NATURE CENTER OF CAPE MAY'S HUMMINGBIRD GARDEN SAMPLE PLAN

VERSION 1 (ISLAND BED)



KEY

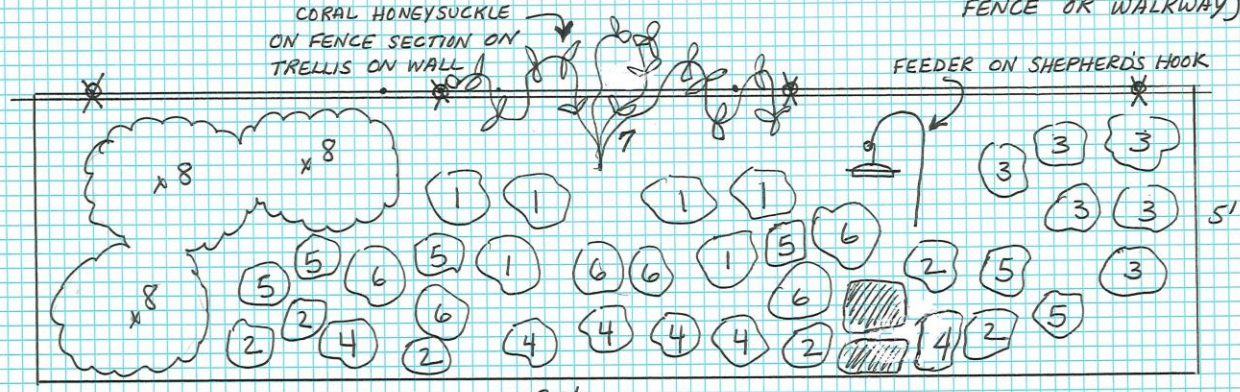
1. beard tongue
2. coral bells
3. cardinal flower
4. bergenia
5. blue cardinal flower
6. salvia
7. coral honeysuckle vine
8. sweet pepperbush

Designed by: Gretchen Ferrante

NEW JERSEY AUDUBON SOCIETY

2005 NATURE CENTER OF CAPE MAY'S HUMMINGBIRD GARDEN SAMPLE DESIGN

VERSION 2 (STRAIGHT ROW FOR ALONG A WALL, FENCE OR WALKWAY)



KEY

1. beard tongue
2. coral bells
3. cardinal flower
4. bergenia
5. blue cardinal flower
6. salvia
7. coral honeysuckle vine
8. sweet pepperbushes

stepping stones

NOTE: FILL IN SPACES WITH ANNUALS SUCH AS;

- BEGONIA
- IMPATIENS
- CANNAS
- FOUR O'CLOCKS
- NASTURTIUMS
- PETUNIAS
- RED SALVIA

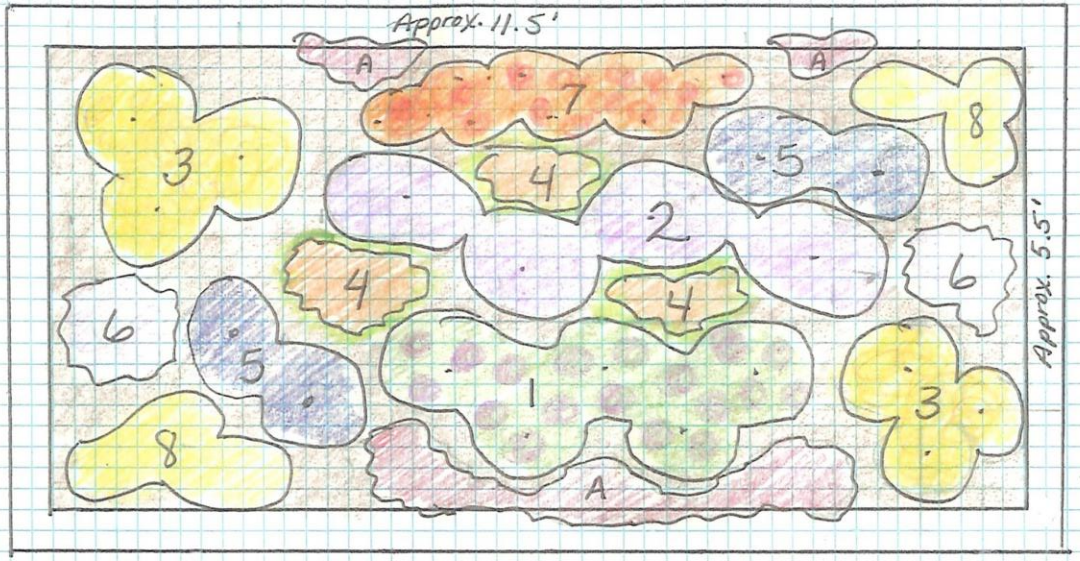
* FEEDER ON SHEPHERDS HOOK CAN BE REPLACED WITH A DIFFERENT SHRUB SUCH AS;

- GLOSSY ABELIA
- SWAMP AZALEA
- BUTTERFLY BUSH
- FLOWERING QUINCE

Designed by: Gretchen Ferrante

MINI-BUTTERFLY GARDEN DEMONSTRATION BED
(EMPHASIZING DROUGHT-TOLERANT PLANTS FOR WATER CONSERVATION)
LOCATED ON JACKSON ST. AT END OF BANDSTAND PARK

Plan designed by: Gretchen Perrotta
Sanctuary Director
Nature Center of Cape May
May 1, 2005



A = Annuals such as zinnia 'profusion'

TOTALS

37 PLANTS
(30 2 gal. perennials,
7 1 quart perennial

Additional supplies:
- compost
- mulch
- 3, 6 packs of annuals (zinnia

KEY

NUMBER	NAME	QUANTITY	SIZE	PRICE EA	TOTAL
1	Sedum 'Indian cheif'	5	2 gal.	5.65	28.25
2	Russian sage	4	2 gal.	5.65	22.6
3	Black-eyed Susan	6	2 gal.	5.65	33.9
4	Cannas - Rosemond Cole	3	2 gal.	5.65	16.95
5	Purple Coneflower	4	2 gal.	5.65	22.6
6	Guara - whirling butterflies	2	2 gal.	5.35	10.7
7	Blanketflower	7	1 quart	1.95	13.65
8	Coreopsis - Moonbeam	6	2 gal.	5.65	33.9

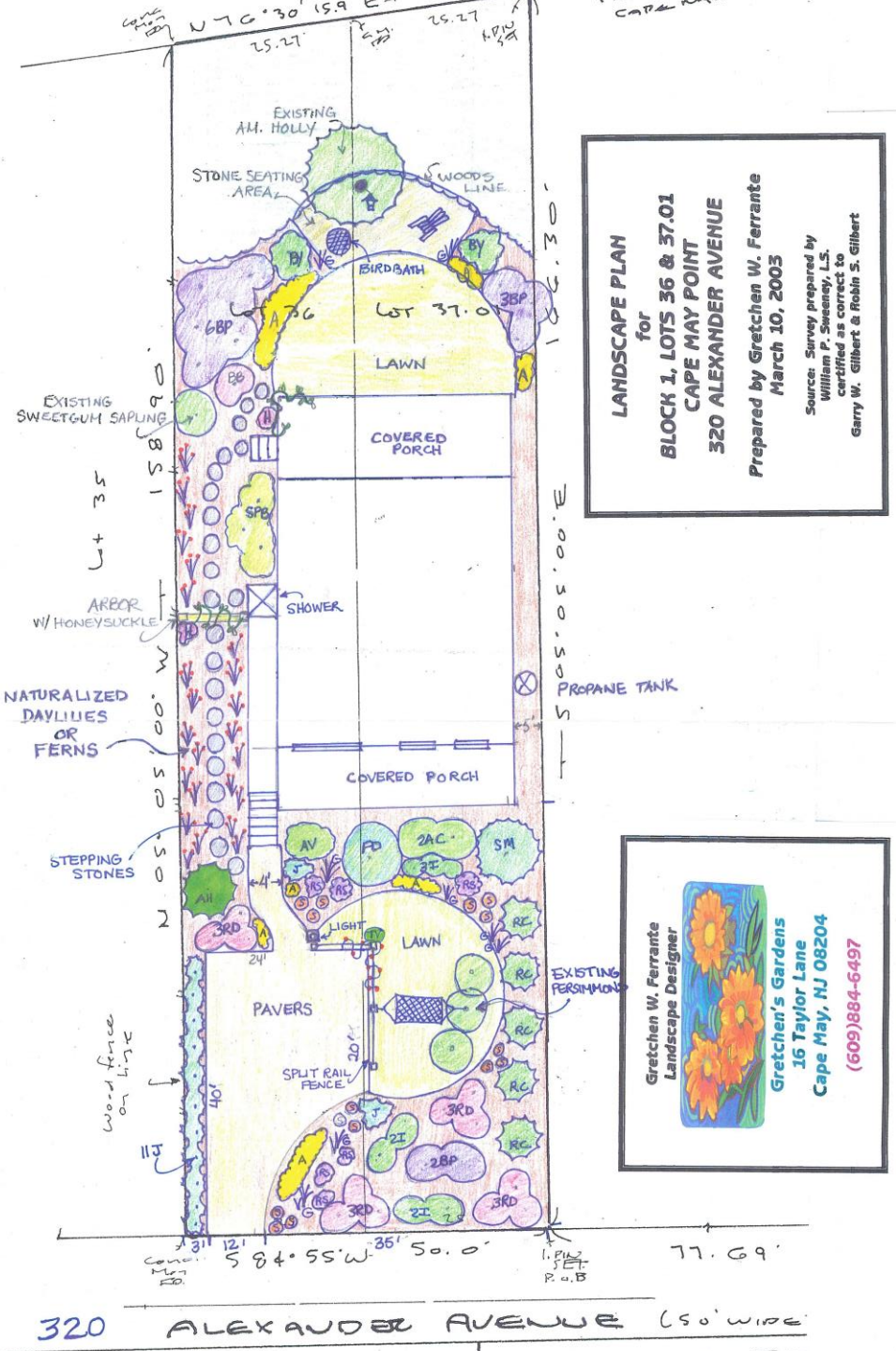


LANDSCAPE PLAN

FRIEDMAN RESIDENCE
412 CLAY STREET
CITY OF CAPE MAY
BLOCK 1061 LOT 64.03

Prepared by Gretchen W. Ferrante

Gretchen's Gardens
16 Taylor Lane
Cape May, NJ 08204
(609)884-6497

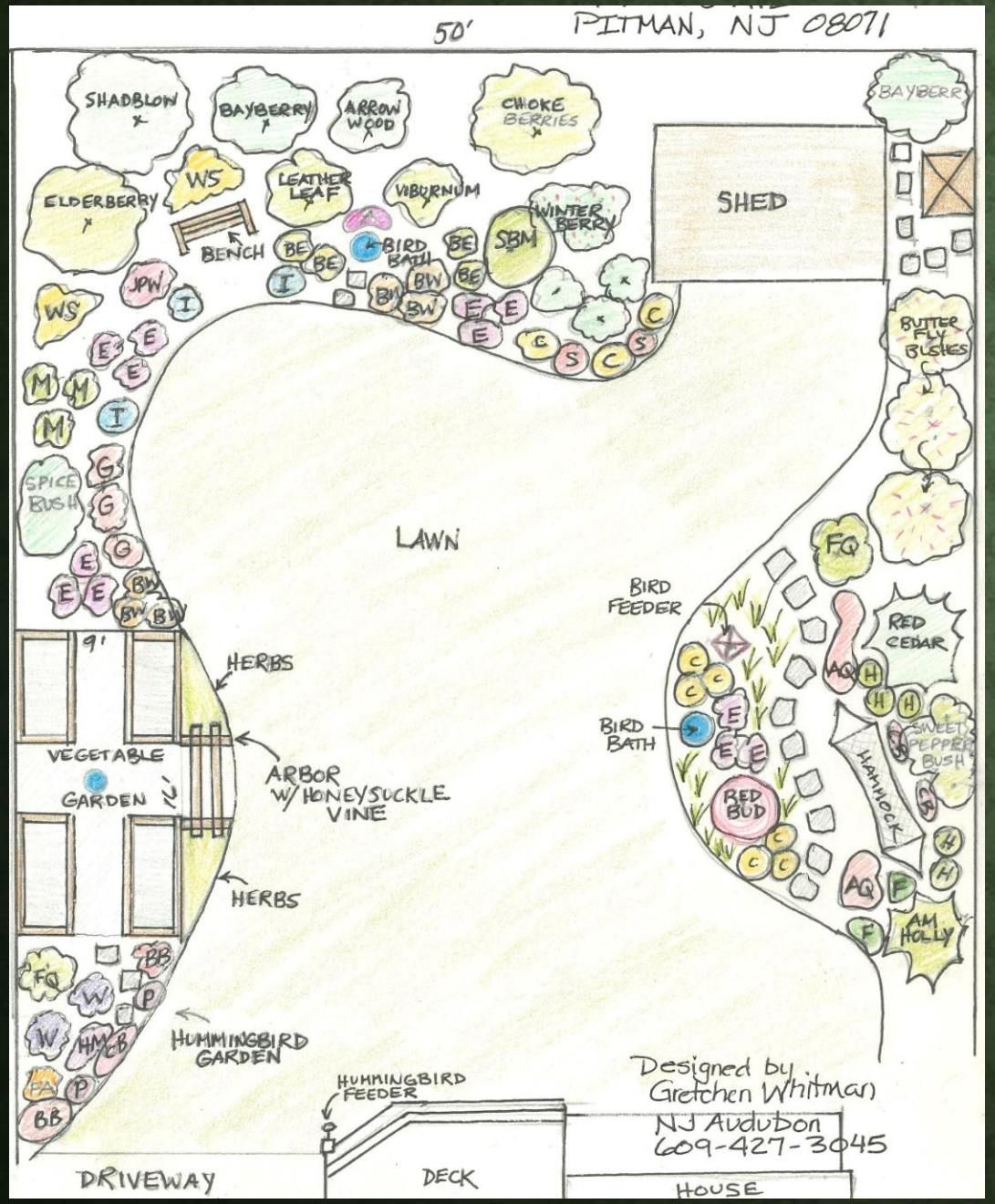


LANDSCAPE PLAN for BLOCK 1, LOTS 36 & 37.01 CAPE MAY POINT 320 ALEXANDER AVENUE

Prepared by Gretchen W. Ferrante
March 10, 2003

Source: Survey prepared by William P. Sweeney, L.S. certified as correct to Garry W. Gilbert & Robin S. Gilbert

Gretchen W. Ferrante
Landscape Designer
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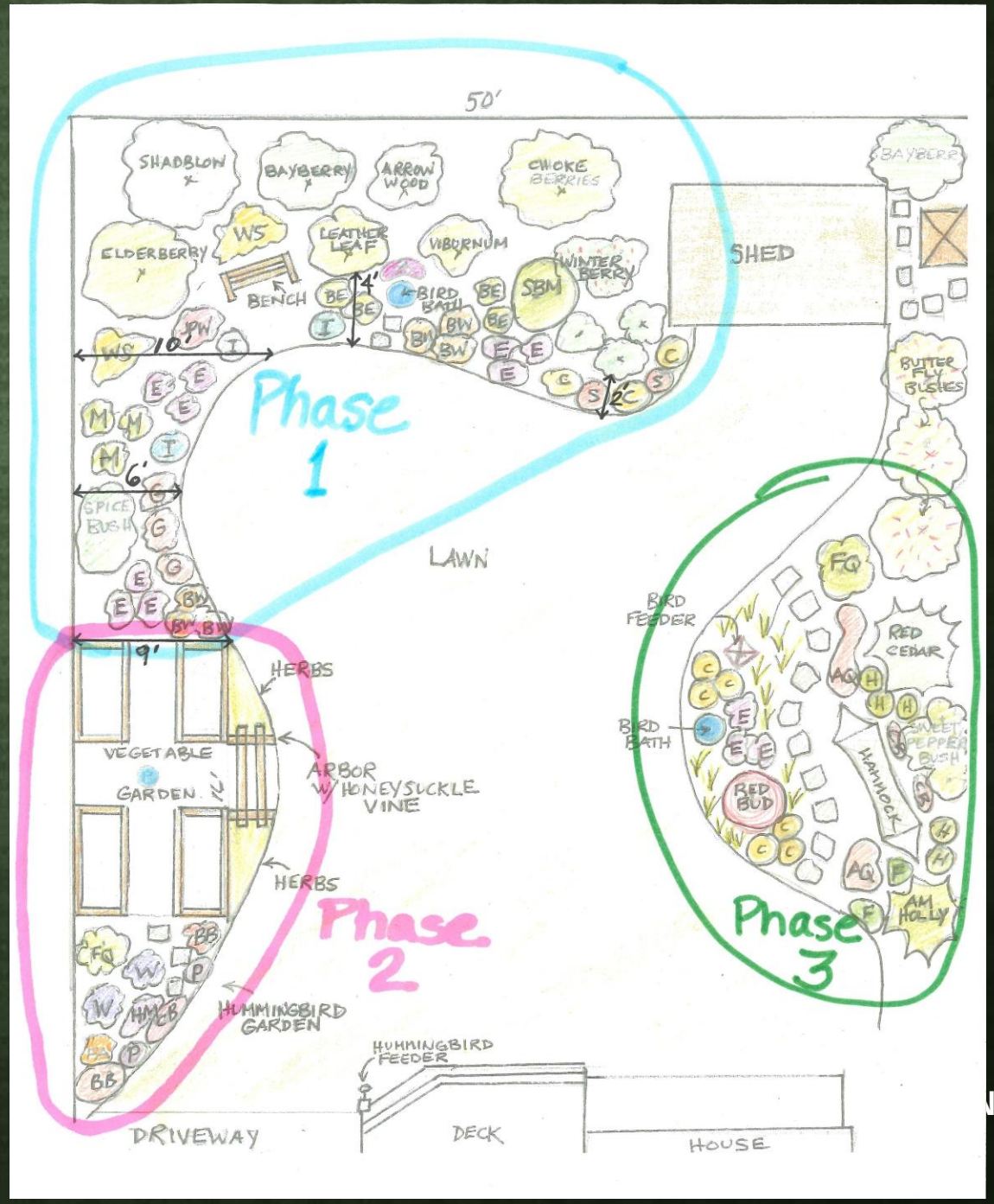


Do not be afraid of deep borders

HUTCHINSON GARDEN PLANT ID KEY

A	Asters (new England or New York Aster)
AQ	Aquilegia (Columbine(
BB	Bee Balm
BE	Black-eyed Susans
BW	Beutterflyweed
C	Coreopsis
CB	Coral Bells
E	Echinecea (purple coneflower)
F	Ferns
FA	Flaming Azalea
FQ	Flowering Quince
G	Gaillardia (blanketflower)
H	Hostsa
HM	Hummingbird Mint (Agastache)
I	Wild Blue Indigo
JPW	Joe Pye weed
M	Common Milkweed
P	Penstemon
S	Salvia or Sedums
SBM	Sweet Bay Magnolia
W	Weigela
WS	Woodland Sunflower
	Grasses - panicgrass, swtchgrass, indiangrass

Your backyard habitat landscape will evolve over time. You don't need to do it all at once.



JOIN ME ON SUNDAY, MAY 5TH AT THE NATURE CENTER OF CAPE MAY FOR A GARDEN TOUR, HANDS-ON HOW TO SESSION AND DESIGN CONSULTATION





TAKE THE ECO-PLEDGE

Pledge to adhere to NJAS' Ten Tips For Backyard Habitats:

1. Select wildlife food plants
2. Increase diversity
3. Reduce lawn areas
4. Plant natives
5. Provide water
6. Provide shelter
7. Love bugs - use less chemicals
8. Go wild
9. Reduce fall clean-up
10. Relax and enjoy

