

An aerial photograph of a lush green field, possibly a golf course or park, with a winding path or fairway visible. The grass is a vibrant green, and the path is a slightly lighter shade, creating a meandering line across the landscape.

Alissa Paquette

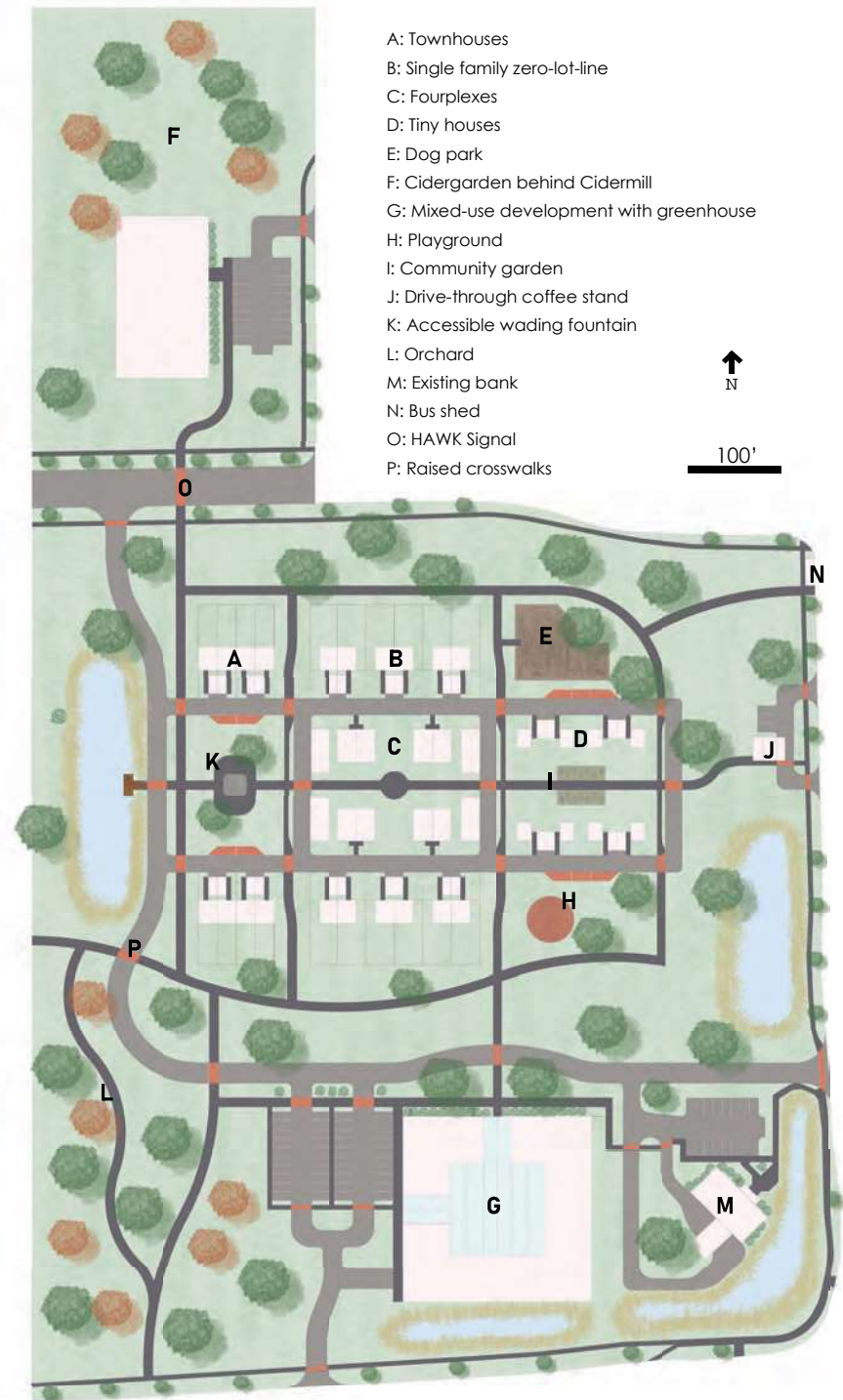
Landscape Architecture Portfolio

Sustainable Neighborhood Design

This redesign of an underutilized site offers various housing types, outdoor recreation, access to public transit, and walkable retail.

Left: Context map made with Google Earth and Illustrator

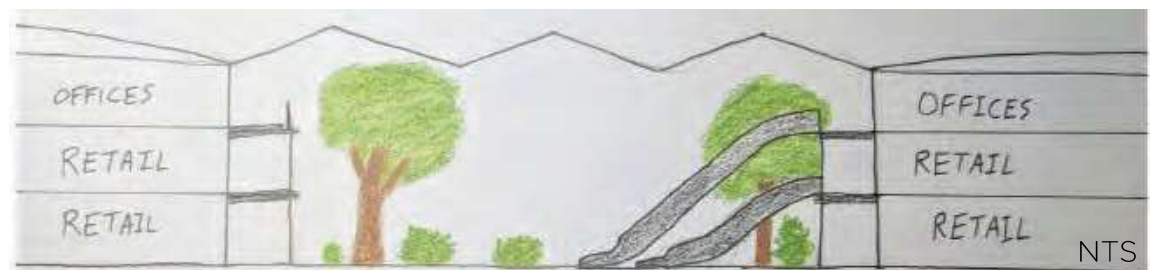
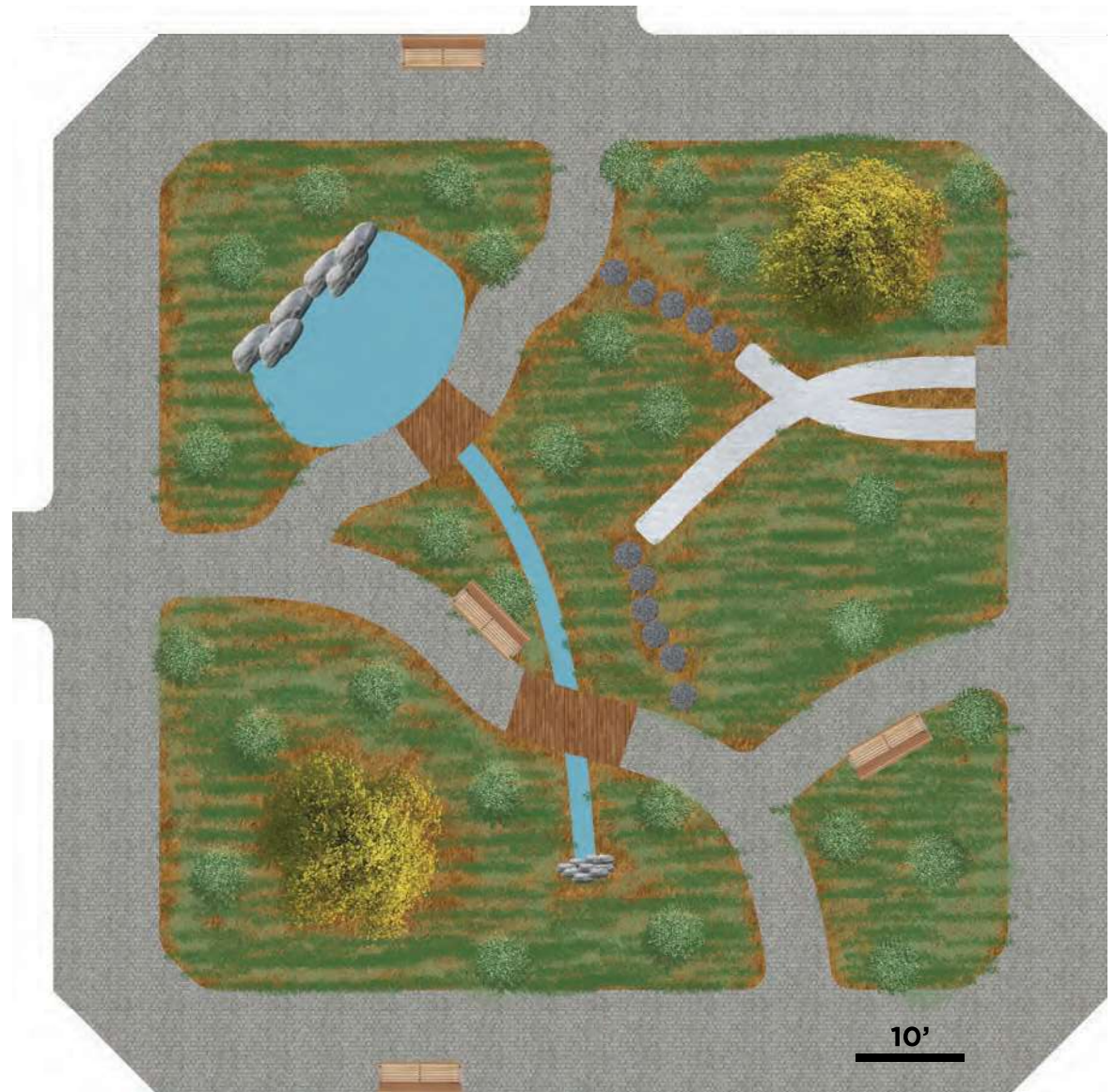
Right: Illustrative site plan made with CAD, Photoshop, and InDesign



Large Greenhouse

Top: Illustrative plan, made with CAD and Photoshop, of the greenhouse within the Sustainable Neighborhood Design. Surrounded by a three-storey mixed-use development, the ground level can be accessed via slide from the upper floors, where walkways course around it. A small stream leading to a fish pond provides relaxing sounds in this space that stays warm and green year-round.

Bottom: Rough sketch of a section view



Community-Oriented Housing

Made in Rhino and Photoshop

Top: Apartment complex built around a courtyard, with a community center, community garden, playground, and ample covered bicycle parking and pedestrian infrastructure

Bottom left: Honeycomb pollinator garden with fruit trees, flowering natives, and seating

Bottom right: Detail view of balcony made in Rhino



Credits:
Skalgubbar.se
Meye.dk
MrCutout.com
GrabCAD.com (pergolas)

Community-Oriented Housing

Made in Rhino and Photoshop

Top: A pathway courses around the grassy courtyard, providing residents with a place to play and relax away from cars. Trees and pergolas over benches give people the choice to sit in the shade or the sun.

Bottom: Section view, showing sidewalks and car areas on the other sides of the buildings



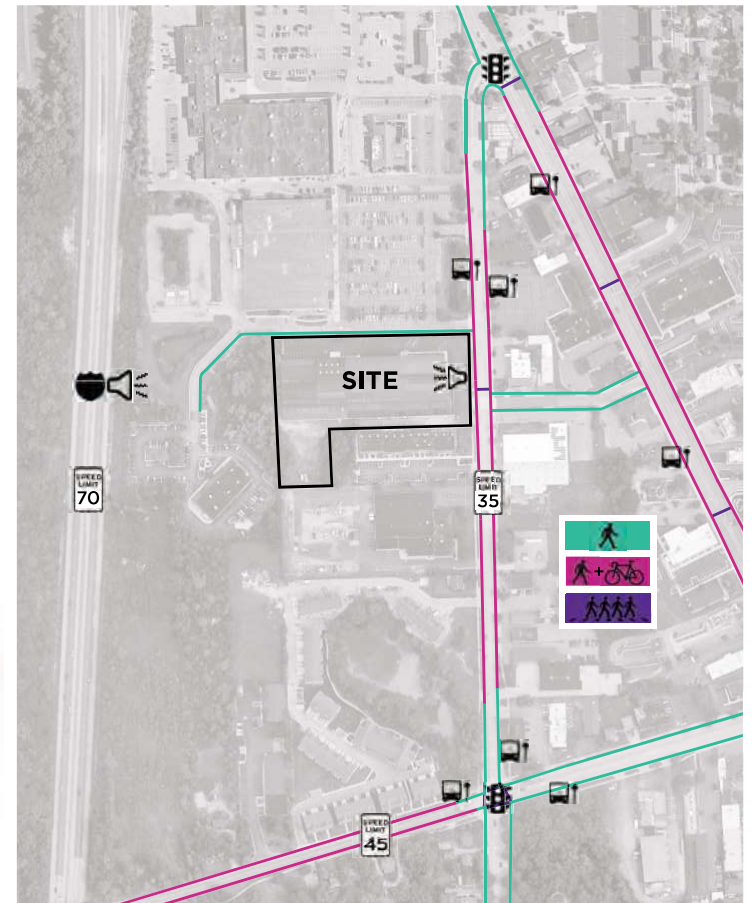
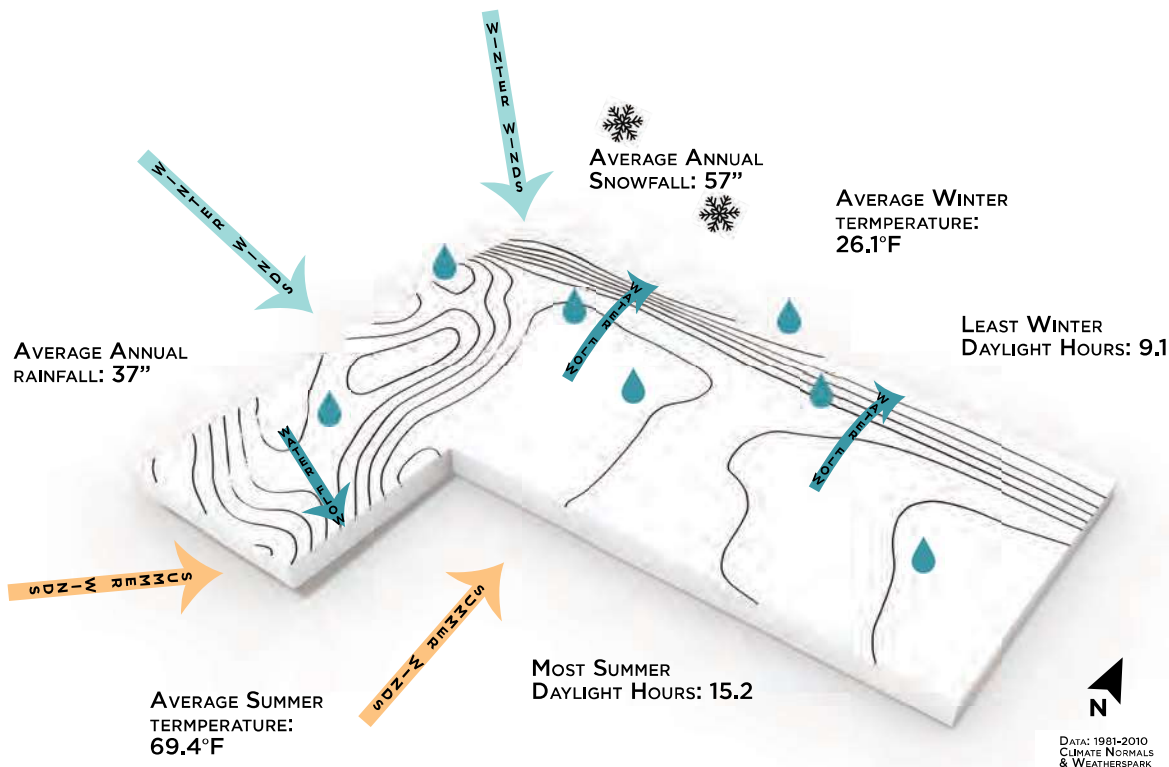
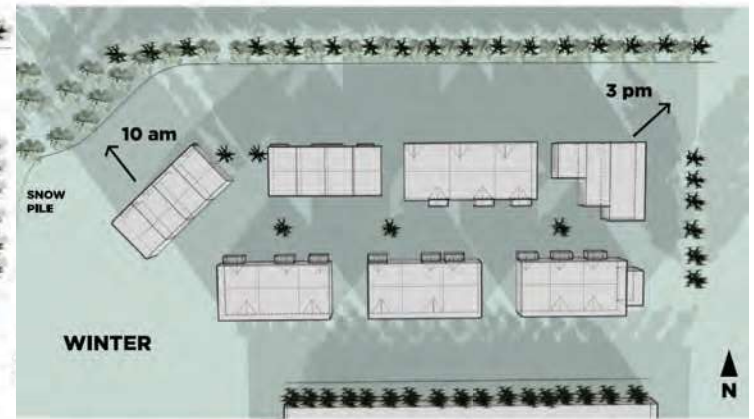
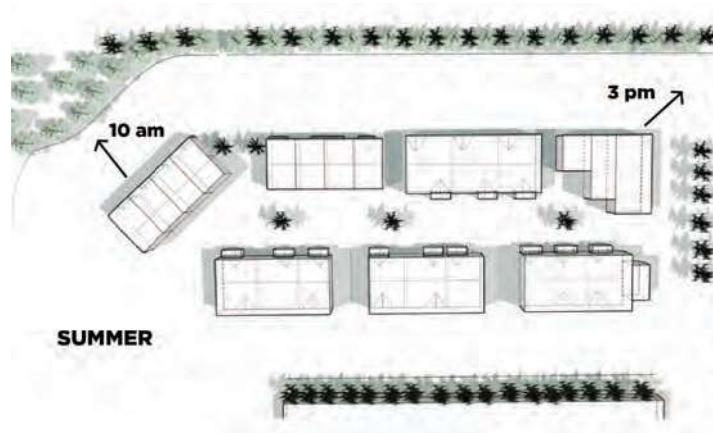
Credits:
Skalgubbar.se
Meye.dk
MrCutout.com
GrabCAD.com (pergolas)

Community-Oriented Housing: Site Analysis

Top: Sun and shade

Bottom left: Climate

Bottom right: Transportation

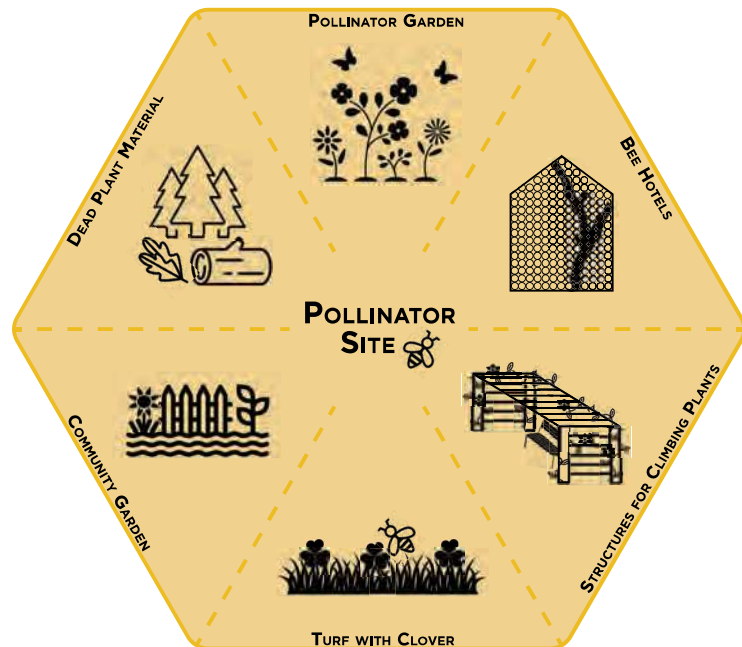
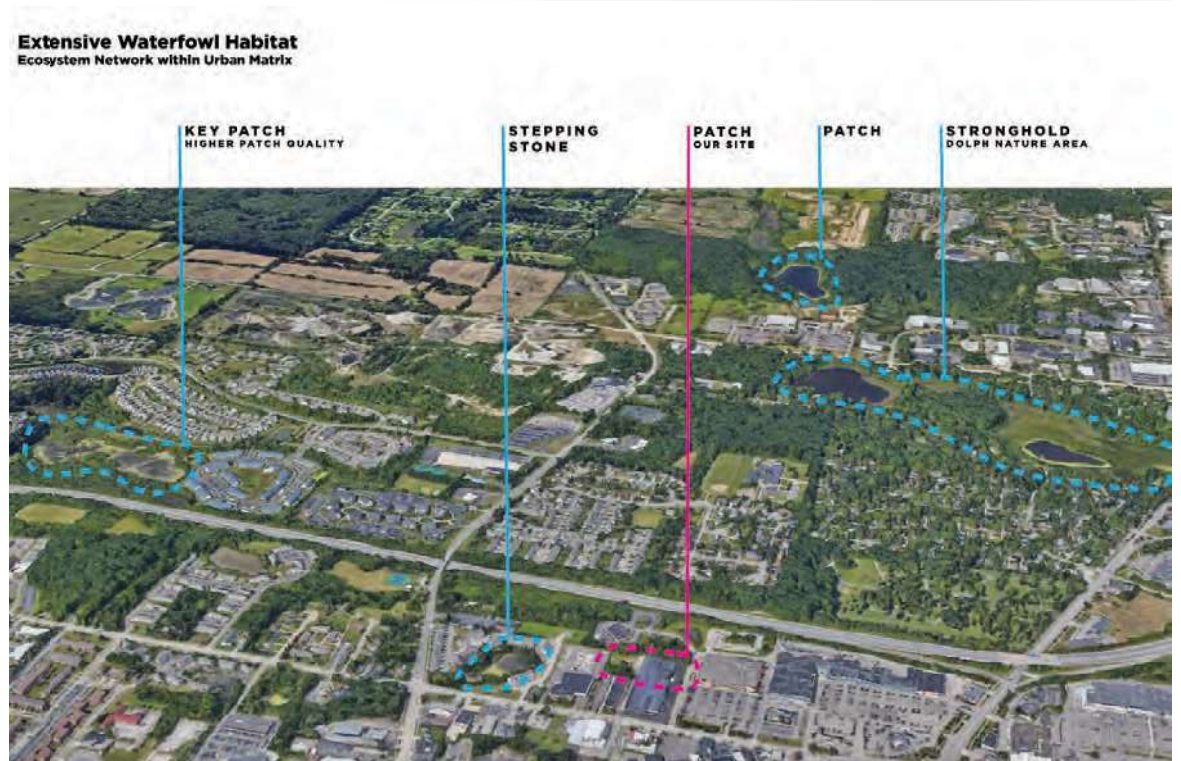
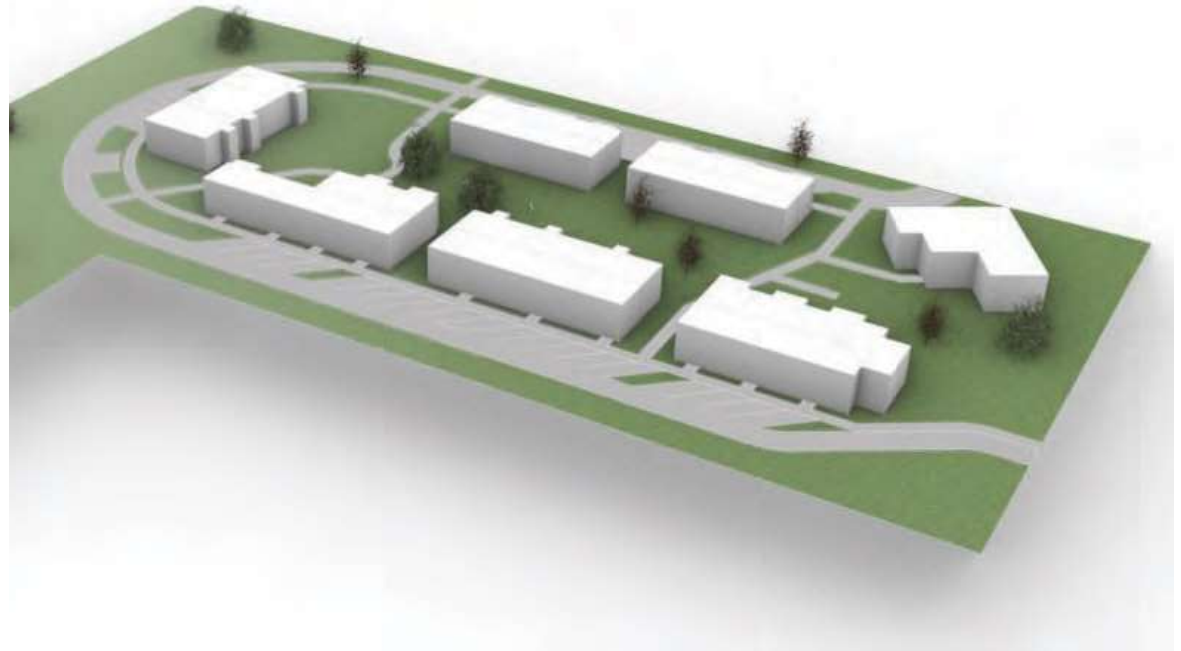


Community-Oriented Housing: Design Strategy & Initial Stages

Top: Simple Rhino model with imported CAD file

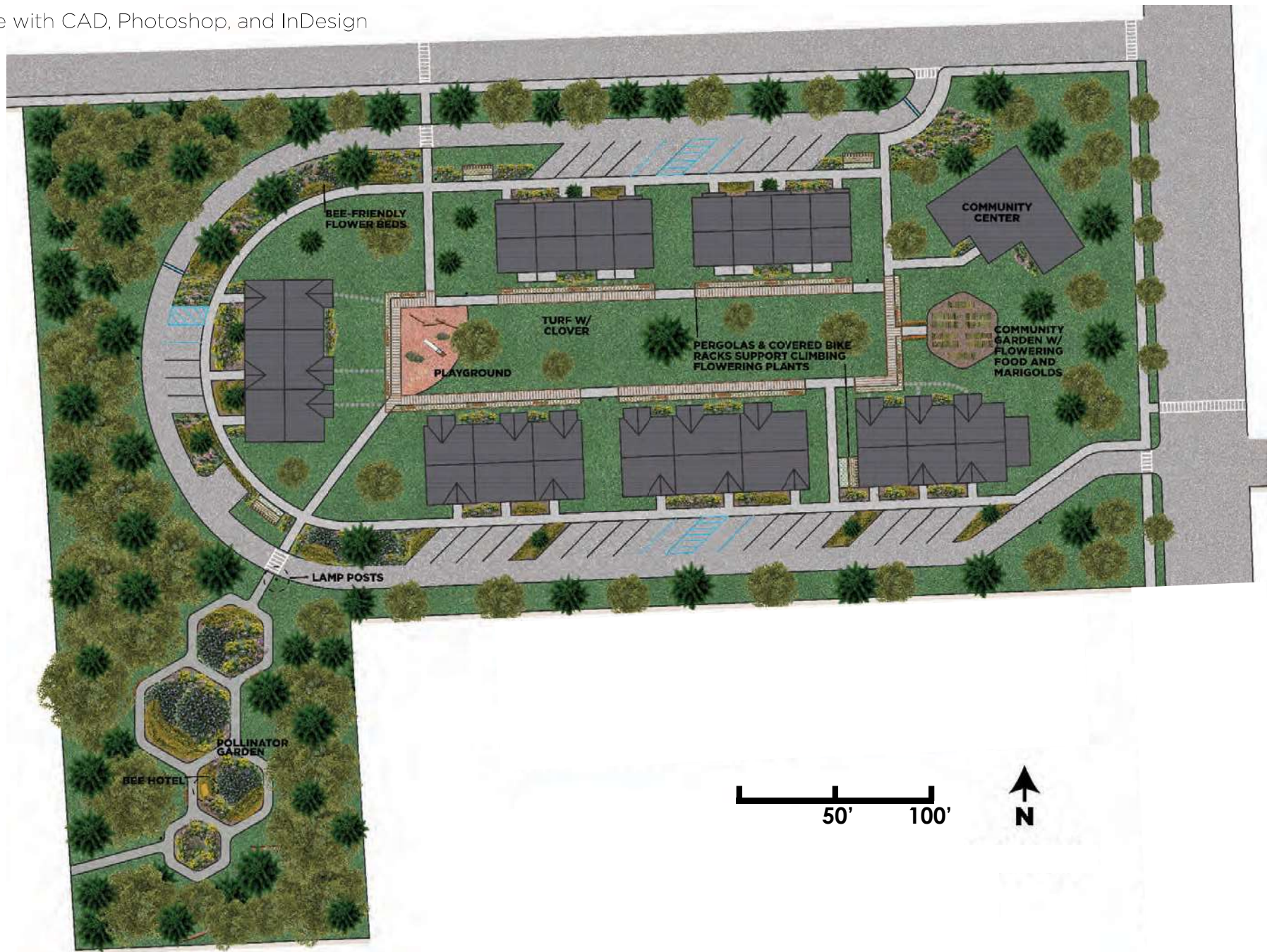
Bottom left: Design strategy

Bottom right: Nearby aquatic habitats supporting my first plan for a pond on-site. I decided to keep the existing trees instead.



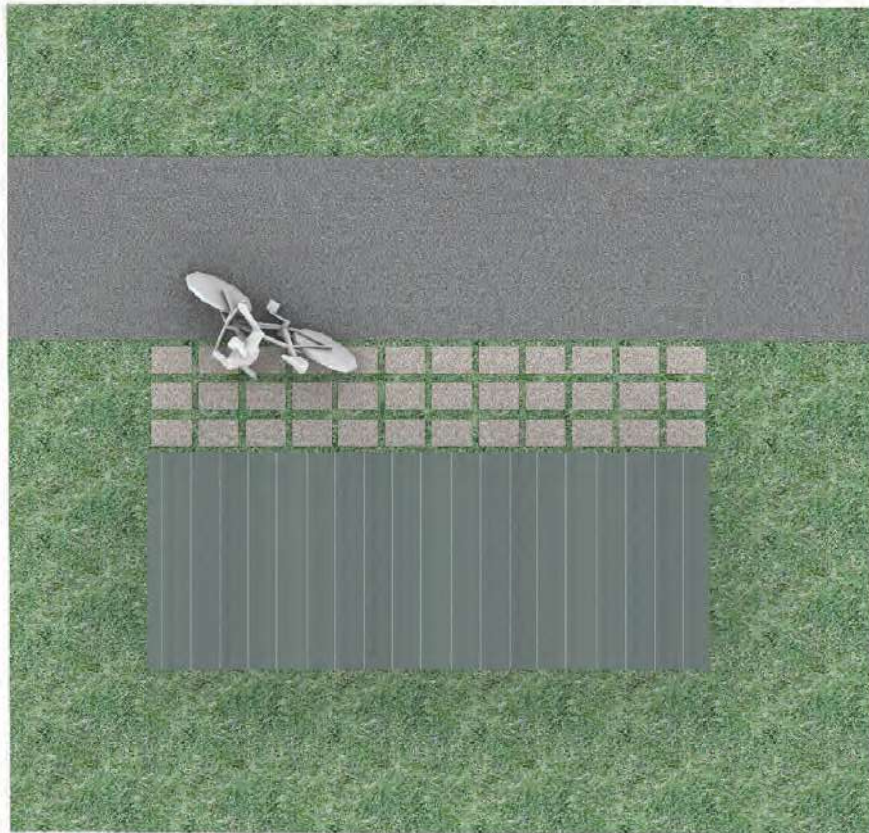
Community-Oriented Housing: Site Plan

Made with CAD, Photoshop, and InDesign



Covered Bike Parking

Made in Rhino. The horizontal wires provide support for climbing plants.



Topography

Made with SketchUp and Rhino

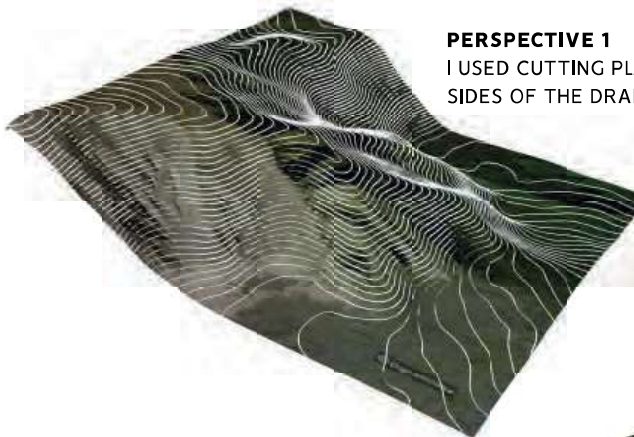
HALEAKALĀ NATIONAL PARK



AERIAL
FROM SKETCHUP



PLAN



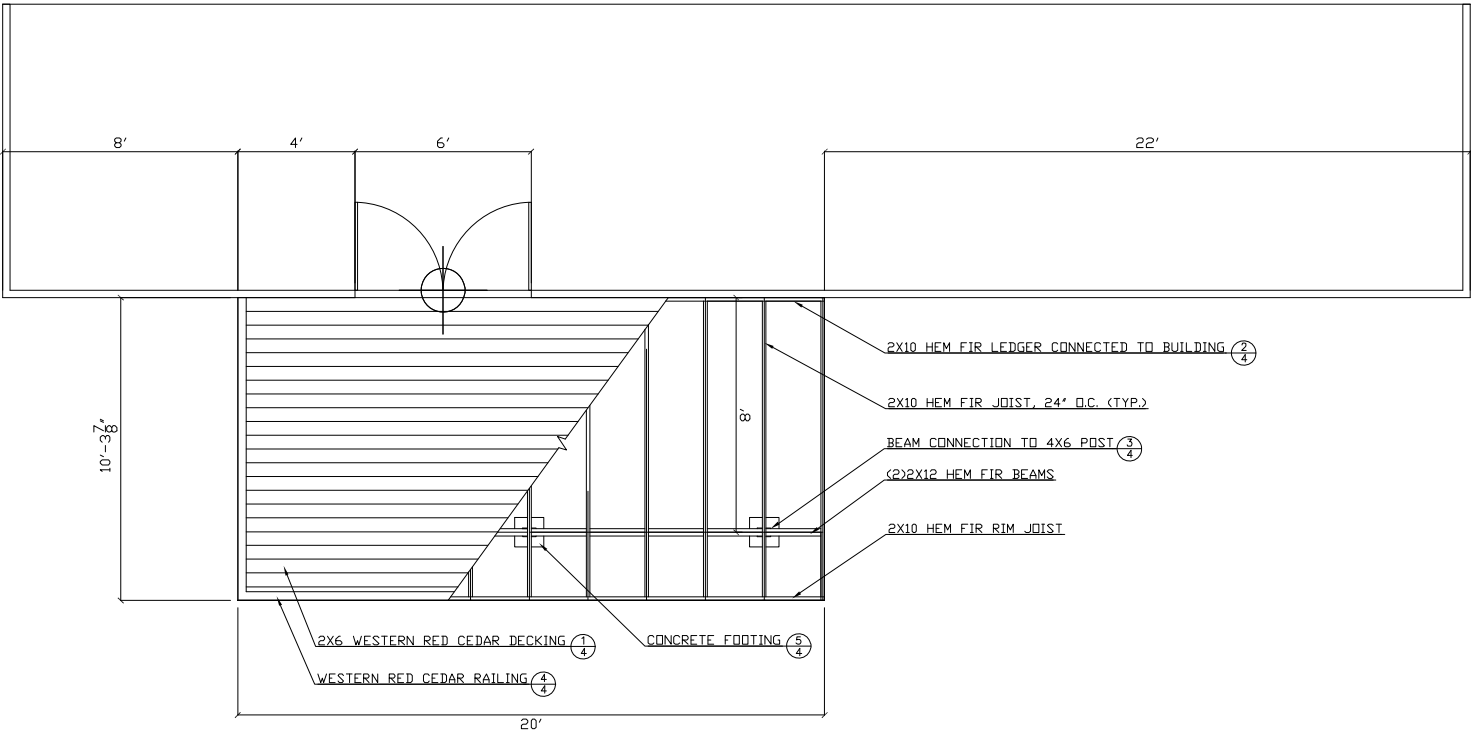
PERSPECTIVE 1
I USED CUTTING PLANES TO REMOVE THE
SIDES OF THE DRAPE SURFACE



PERSPECTIVE 2

Deck Design

Made in CAD



ALISSA
PAQUETTE

ENG 591-MATERIALS & METHODS
NOV. 9, 2021
ALISSAPAQUETTE@UMICH.EDU

PROJECT:
WOOD DECK AT BACK OF HOUSE
ANN ARBOR, MICHIGAN
PLAN

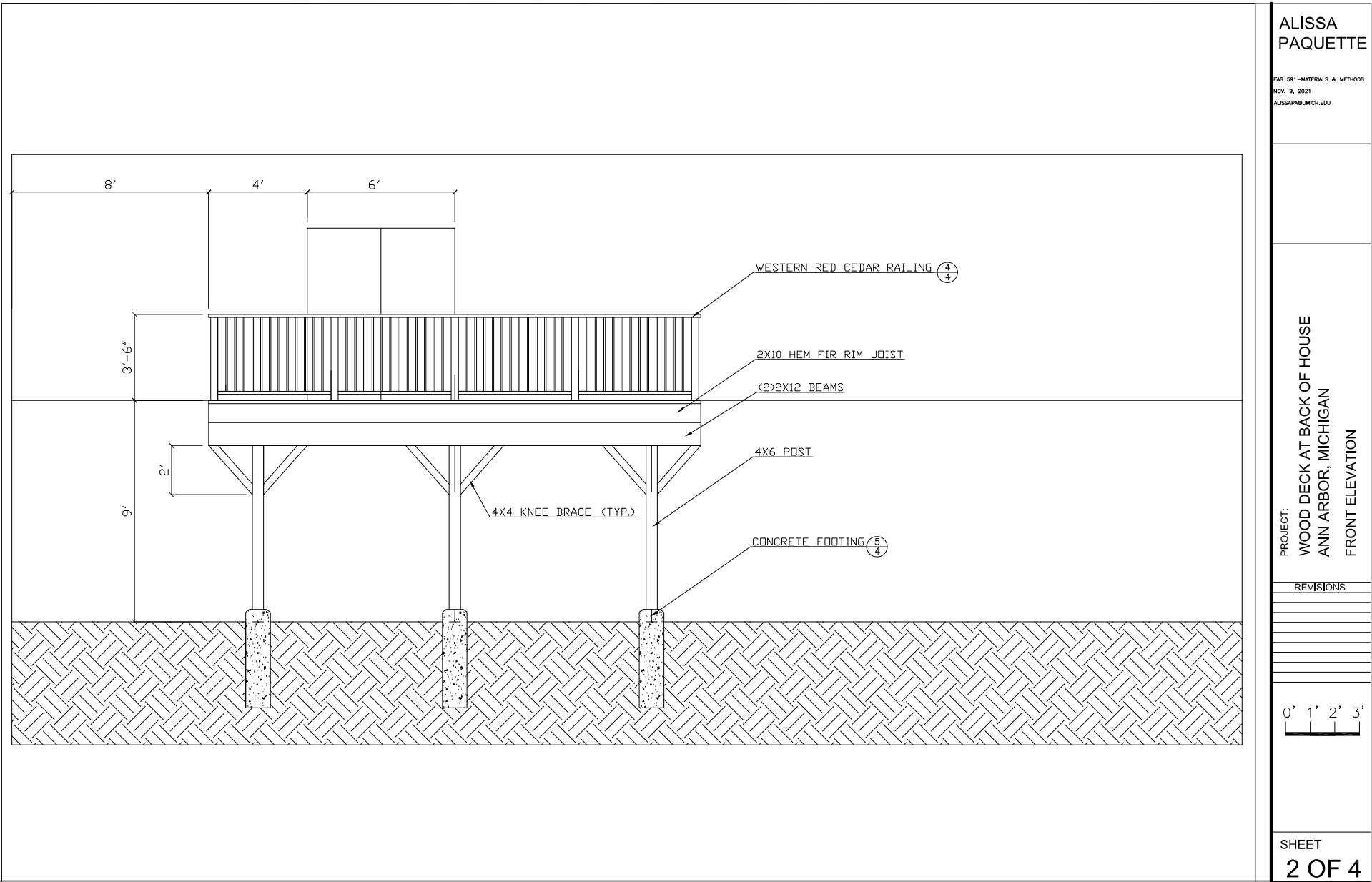
REVISIONS

0' 1' 2' 3'

SHEET
1 OF 4

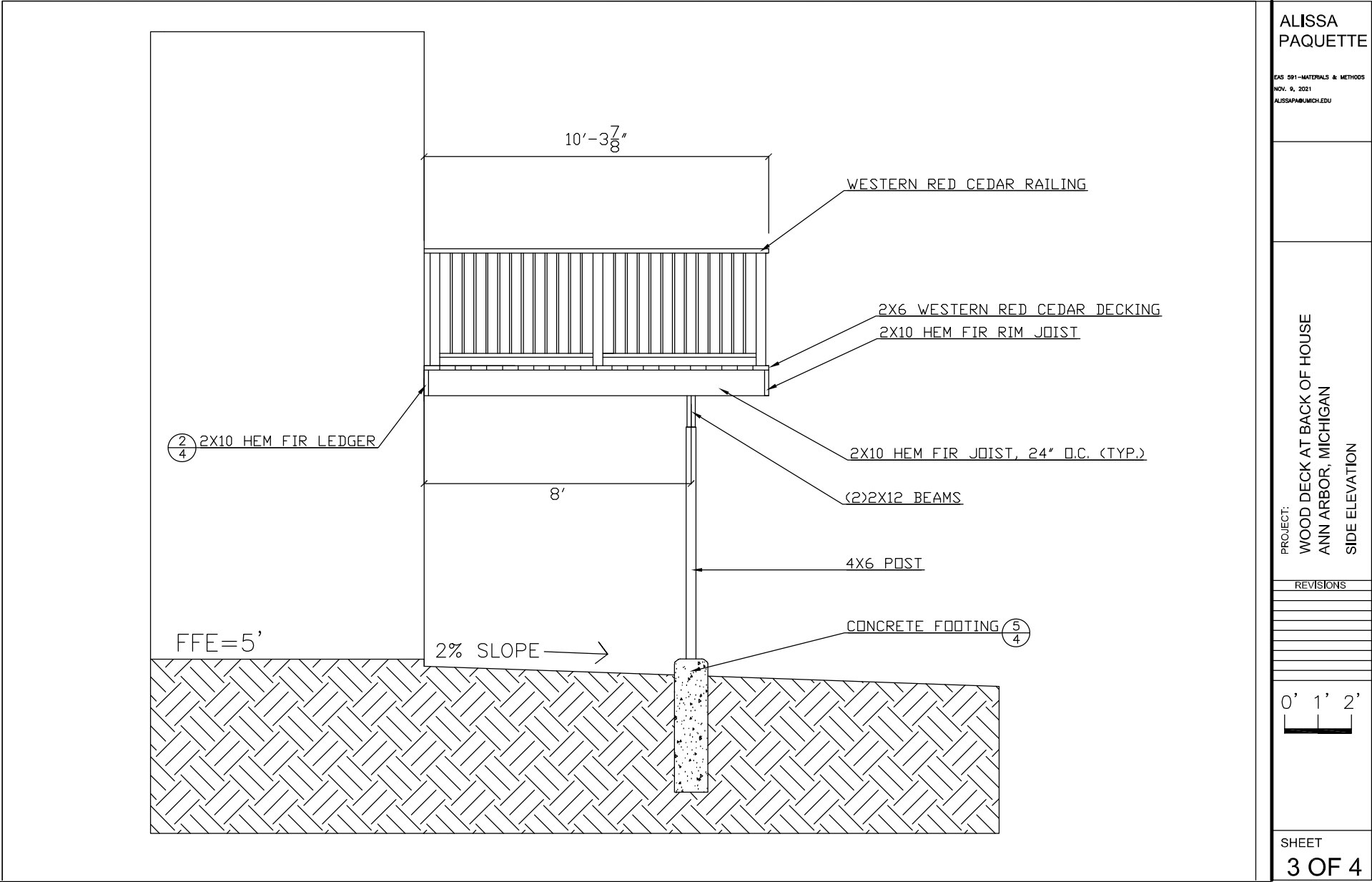
Deck Design

Made in CAD



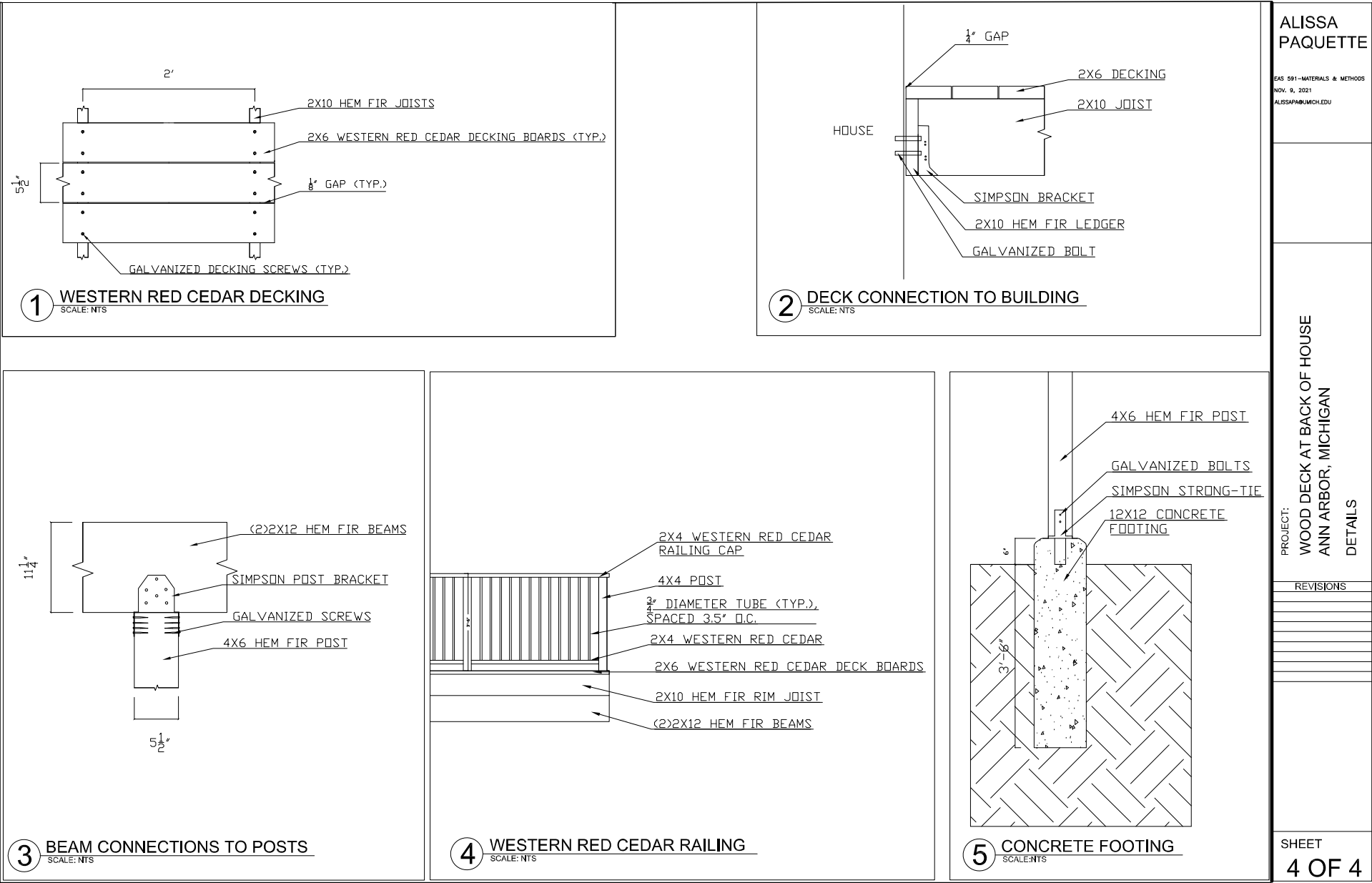
Deck Design

Made in CAD



Deck Design

Made in CAD



ALISSA
PAQUETTE

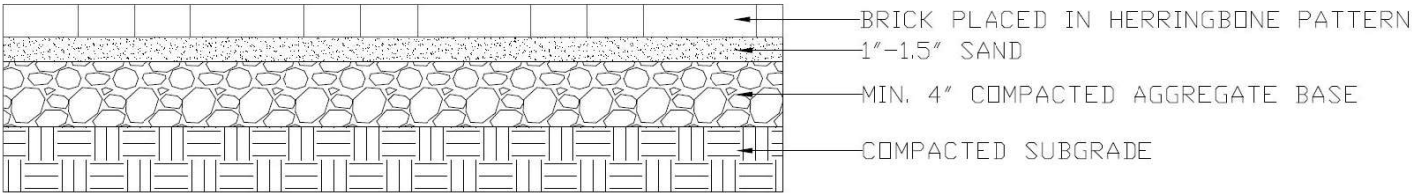
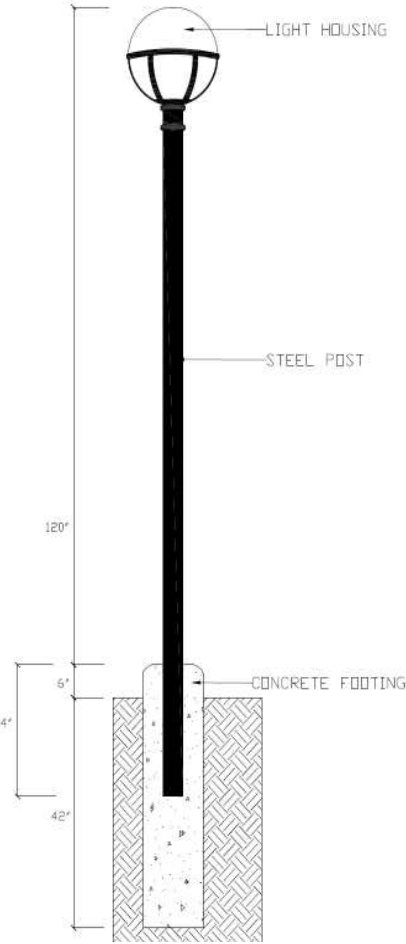
EAS 591-MATERIALS & METHODS
NOV. 9, 2021
ALISSA.PAQUETTE@UNMICH.EDU

PROJECT:
WOOD DECK AT BACK OF HOUSE
ANN ARBOR, MICHIGAN
DETAILS

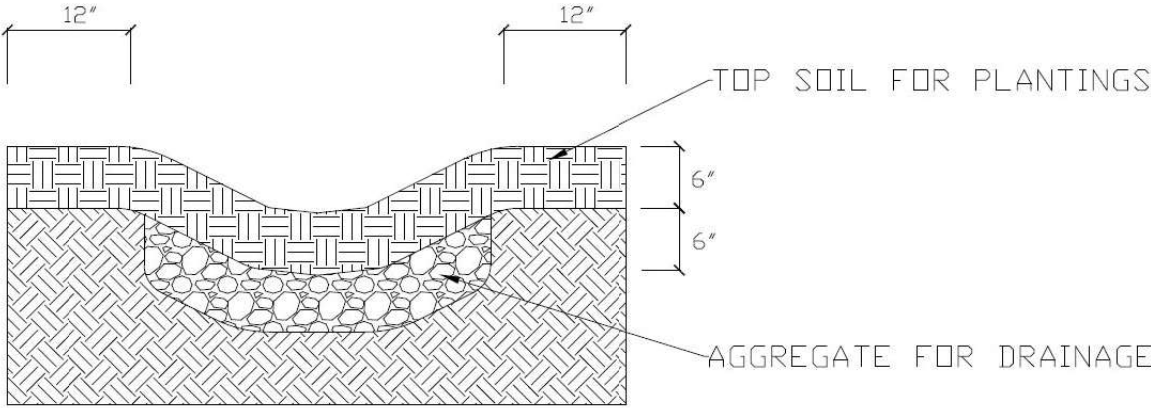
REVISIONS

More Details

Made in CAD



5
8 MORTARLESS BRICK PAVING
NTS

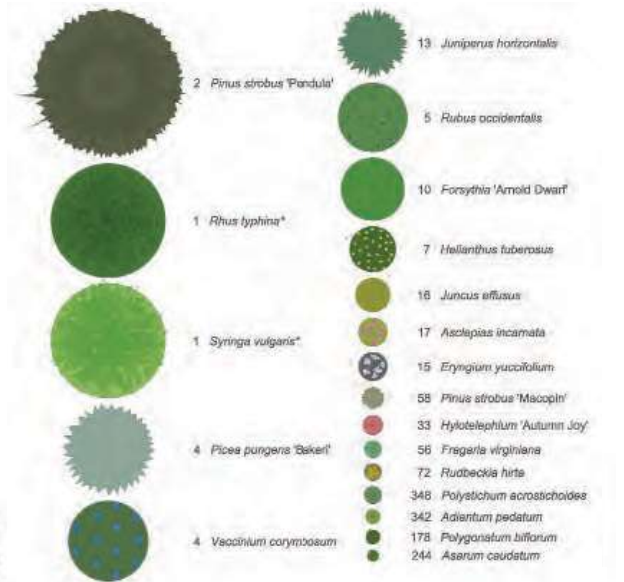


3
6 R.O.W. RAIN GARDEN
SCALE=NTS

Winter Interest Planting Design

Illustrative planting plan made in
CAD and Photoshop

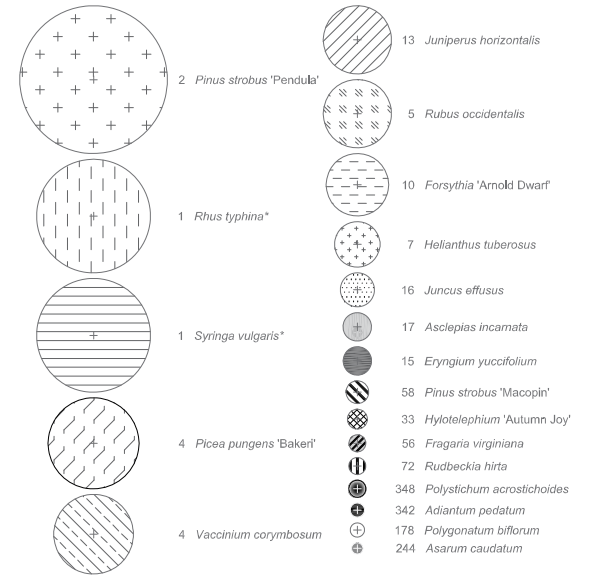
School for Environment & Sustainability
Dana Building UM Central Campus



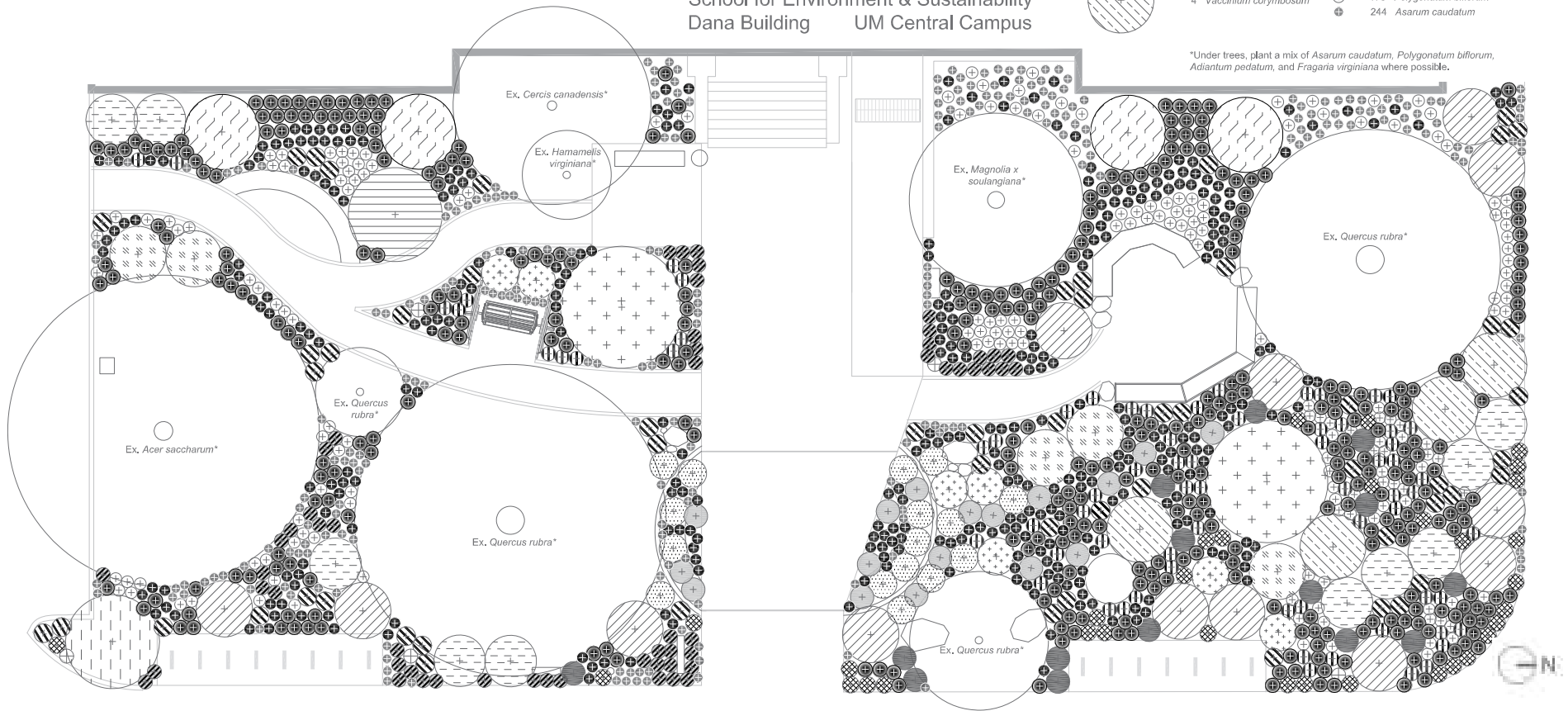
Winter Interest Planting Design

Variant of a technical planting plan,
made in CAD

School for Environment & Sustainability
Dana Building UM Central Campus



*Under trees, plant a mix of *Asarum caudatum*, *Polygonatum biflorum*, *Adiantum pedatum*, and *Fragaria virginiana* where possible.



Made in InDesign

Botanical Name	Common Name	Quantity	Winter interest?	Blooms?	Fruit?	Plant type	Typical height	Typical width	Sun Preference	Water preference
<i>Picea pungens</i> 'Bakeri'	Baker blue spruce	4	yes - evergreen	no	no	evergreen tree	12-20'	6-10'	full-shade	moist, well drained
<i>Polystichum acrostichoides</i>	Christmas fern	348	yes - evergreen	no	no	fern	1-2'	1-2'	Part shade to full shade	dry to medium
<i>Vaccinium corymbosum</i>	Highbush blueberry	4	yes - structural	yes, March-May	yes, June-Sept	deciduous shrub	8-15'	6-8'	Full sun to part shade	Medium to wet, well drained
<i>Juncus effusus</i>	Common rush	16	yes - evergreen	yes, June to August	no	rush	2-4'	2-4'	Full sun	wet
<i>Eryngium yuccifolium</i>	Rattlesnake master	15	yes - dries well	yes, July-Sept	no	herbacious perennial	4-5'	2-3'	full sun	dry to medium
<i>Polygonatum biflorum</i>	Solomon's seal	178	no	yes, April-May	no	herbacious perennial	1-3'	1-1.5'	Part shade to full shade	Medium to wet
<i>Rudbeckia hirta</i>	Black eyed Susan	72	no	yes, June-Sept	no	herbacious perennial	2-3'	1-2'	full sun	medium
<i>Juniperus horizontalis</i>	Creeping Juniper	13	yes - evergreen	no	no	groundcover	0.5-1.5'	6'	full sun	medium
<i>Fragaria virginiana</i>	Wild strawberry	56	no	yes, April-May	yes, May-June	groundcover	0.25-0.75'	1-2'	Full sun to part shade	medium
<i>Rubus occidentalis</i>	Black raspberry	5	yes - structural/vines	yes, May-June	yes, June-Aug	herbacious shrub	3-8'	4-8'	Full sun to part shade	dry to medium
<i>Asclepas incarnata</i>	Swamp milkweed	17	yes - dries well	yes - purplish pink in July-Aug, then fluffy pods Aug-Oct	no	herbacious perennial	3-4'	2-3'	full sun	medium to wet
<i>Adiantum pedatum</i>	Maidenhair fern	342	no	no	no	fern	1-2'	1-1.5'	Part shade to full shade	medium
<i>Helianthus tuberosus</i>	Jerusalem artichoke	7	no	yes, August-September	no	herbacious perennial	6-10'	3-5'	Full sun to part shade	Dry to medium
<i>Syringa vulgaris</i>	Common lilac	1	yes - structural	yes, May	no	deciduous shrub	12-16'	8-12'	Full sun	medium
<i>Hylotelephium 'Autumn Joy'</i>	Sedum x Autumn Joy	33	yes - dries well	yes, August-November	no	herbaceous perennial	1.5-2'	1.5-2'	Full sun	Dry to medium
<i>Pinus strobus</i> 'Pendula'	Weeping Eastern white pine	2	yes - evergreen	no	no	evergreen tree	15-20'	12-15'	full sun-part shade	Moist, well-drained soil
<i>Rhus typhina</i>	Staghorn sumac	1	yes - structural	yes, June-July, but flower dries and stays for a while	no	deciduous shrub	15'	20'	Full sun to part shade	dry to medium
<i>Forsythia 'Arnold Dwarf'</i>	Forsythia 'Arnold Dwarf'	10	yes - structural	yes, March-April	no	deciduous shrub	2-3'	4-7'	Full sun to part shade	medium
<i>Pinus strobus</i> 'Macopin'	Dwarf Eastern White Pine	58	yes - evergreen	no	no	evergreen shrub	1-3'	1-3'	Full sun to part shade	medium
<i>Asarum caudatum</i>	Wild ginger	244	yes - evergreen	yes, April to June	no	groundcover	0.25-0.5'	0.5-1.5'	Part shade to full shade	medium
Existing Plants	<i>Magnolia x soulangiana</i>	1	yes - structural	yes, April-May	no	deciduous tree				
	<i>Quercus rubra</i>	4	yes - structural	no	no	deciduous tree				
	<i>Acer saccharum</i>	1	yes - structural	no	no	deciduous tree				
	<i>Hamamelis virginiana</i>	1	yes - structural	yes, October-November	no	deciduous tree				
	<i>Cercis canadensis</i>	1	yes - structural	yes, March-April	no	deciduous tree				

Botanical Name	Common Name	January	February	March	April	May	June	July	August	September	October	November	December		
<i>Picea pungens</i> 'Bakeri'	Baker blue spruce	[Solid dark green bar]													
<i>Polystichum acrostichoides</i>	Christmas fern	[Solid dark green bar]													
<i>Vaccinium corymbosum</i>	Highbush blueberry	[Solid dark green bar]		[Solid dark green bar]					●	●	●	●	●	●	[Solid red bar]
<i>Juncus effusus</i>	Common rush	[Solid dark green bar]					[Solid orange bar]			[Solid dark green bar]					
<i>Eryngium yuccifolium</i>	Rattlesnake master	[Solid dark green bar]		[Solid dark green bar]			[Solid light purple bar]					[Solid dark green bar]			
<i>Polygonatum biflorum</i>	Solomon's seal	[Solid dark green bar]		[Solid light yellow bar]			[Solid dark green bar]								
<i>Rudbeckia hirta</i>	Black eyed Susan	[Solid dark green bar]		[Solid yellow bar]					[Solid dark green bar]						
<i>Juniperus horizontalis</i>	Creeping juniper	[Solid dark green bar]													
<i>Fragaria virginiana</i>	Wild strawberry	[Solid dark green bar]		[Solid light yellow bar]			●	●	●	[Solid dark green bar]					
<i>Rubus occidentalis</i>	Black raspberry	[Solid dark green bar]		[Solid dark green bar]			●	●	●	●	●	[Solid dark green bar]			
<i>Asclepias incarnata</i>	Swamp Milkweed	[Solid dark green bar]		[Solid dark green bar]				[Solid pink bar]			[Solid dark green bar]				
<i>Adiantum pedatum</i>	Maidenhair fern	[Solid dark green bar]													
<i>Helianthus tuberosus</i>	Jerusalem artichoke	[Solid dark green bar]		[Solid dark green bar]					[Solid yellow bar]			[Solid dark green bar]			
<i>Syringa vulgaris</i>	Common lilac	[Solid dark green bar]		[Solid light green bar]			[Solid light purple bar]		[Solid light green bar]						
<i>Hylotelephium telephium</i> 'Autumn Joy'	Sedum x Autumn Joy	[Solid dark green bar]		[Solid dark green bar]					[Solid pink bar]						
<i>Pinus strobus</i> 'Pendula'	Weeping Eastern white pine	[Solid dark grey bar]													
<i>Rhus typhina</i>	Staghorn sumac	[Solid dark green bar]		[Solid dark green bar]			[Solid red bar]			[Solid dark green bar]					
<i>Forsythia</i> 'Arnold Dwarf'	Forsythia 'Arnold Dwarf'	[Solid yellow bar]		[Solid dark green bar]											
<i>Pinus strobus</i> 'Macopin'	Dwarf Eastern white pine	[Solid dark grey bar]													
<i>*Magnolia x soulangiana</i>	Saucer Magnolia	[Solid dark green bar]		[Solid light yellow bar]			[Solid dark green bar]								
<i>*Quercus rubra</i>	Red oak	[Solid dark green bar]		[Solid dark green bar]					[Solid red bar]			[Solid dark green bar]			
<i>*Acer saccharum</i>	Sugar maple	[Solid dark green bar]		[Solid dark green bar]					[Solid orange bar]			[Solid dark green bar]			
<i>*Hamamelis virginiana</i>	Witch Hazel	[Solid dark green bar]		[Solid dark green bar]					[Solid yellow bar]			[Solid dark green bar]			
<i>*Cercis canadensis</i>	Redbud	[Solid pink bar]		[Solid light green bar]					[Solid dark green bar]			[Solid yellow bar]			
*Existing plants															
● Fruit															

Winter Interest Planting Design

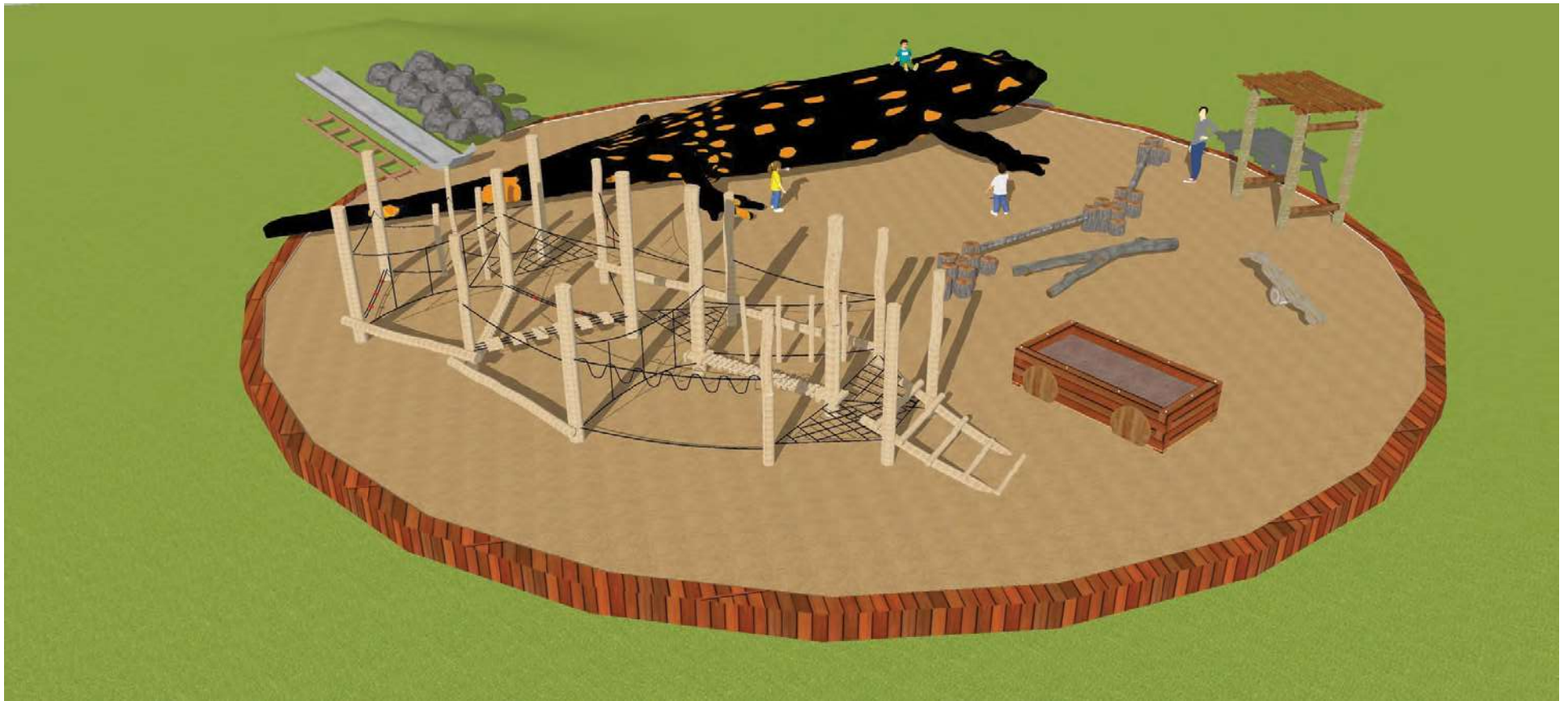
Summer and winter perspective
views made in Rhino and Photoshop



Credits:
MrCutout.com
GrabCAD.com

Playground Design Concept for Eberwhite Woods

This initial design concept was made in SketchUp with objects from 3D Warehouse. The wooden play structure calls to the presence of spotted salamanders on site.

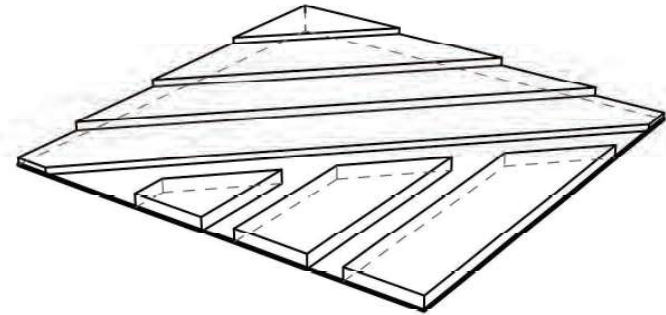
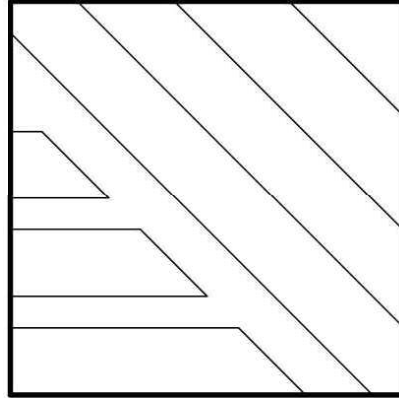


3D & Physical Modeling

Made with Rhino, Illustrator, and
sugar cookie dough

PLANAR SURFACE

MADE BY CREATING AND TRIMMING BOXES, AND RAISING THEM WITH GUMBALL



PLAN

TERRACED GARDENS OR AN AMPHITHEATER



SECTION 1

PERSPECTIVE



SECTION 2



MODEL VIEW 1

MADE WITH SUGAR COOKIE DOUGH



MODEL VIEW 2

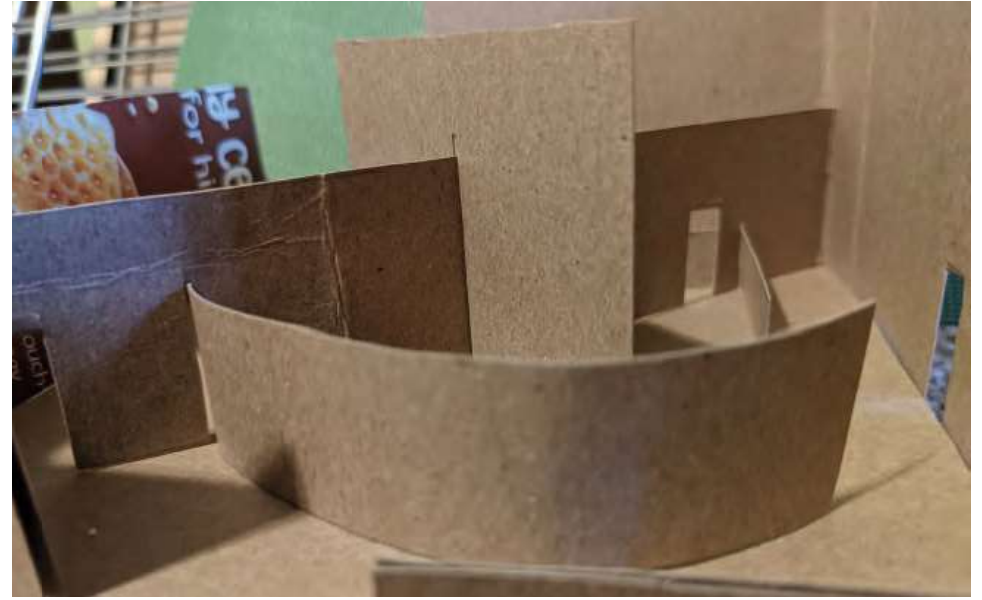
BUILT ON 4"X4" THIN CARDBOARD, WRAPPED IN PARCHMENT PAPER TO PREVENT STICKING

Plant Identification



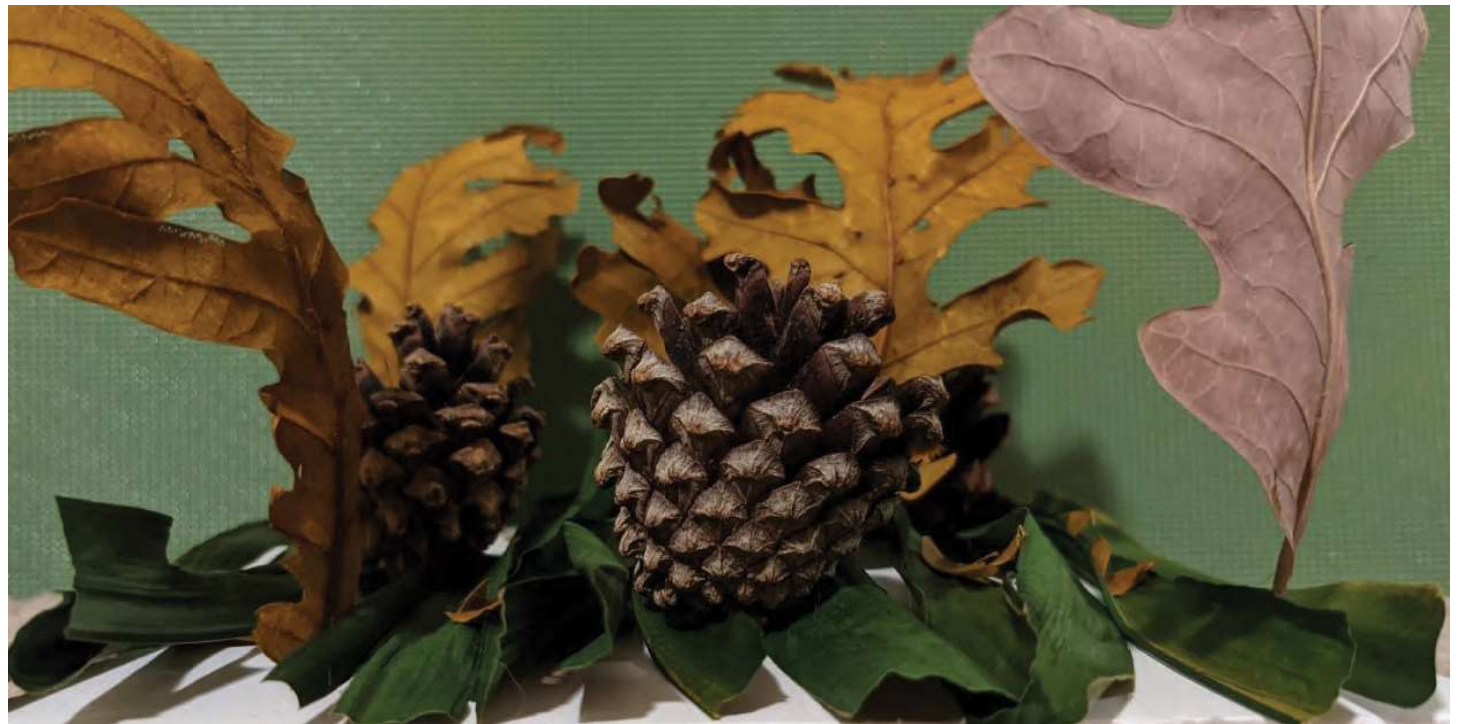
Physical Modeling

Practicing and experimenting with chipboard



Physical Modeling

Practicing and experimenting with plant materials



Sketching



Using Color



Drawing Prairie Species

