The design studio as experiment: the speculation of urban futures

Graduate Landscape Architecture Program College of Architecture and Environmental Design Kent State University

Morphologies:

To explore the **various scales** and responsibilities of landscape architecture and articulate critical elements of infrastructures, systems, and urban forms.



landscape architecture and create a foundation for design and professional awareness

Fall Studio 1 - Gardens History+Theory Plants+Planted Form

Spring Studio 2 – Neighborhoods

Ecological Systems Design Visuals

> Year 1 groundwork

Fall **Studio 3 - Systems** Site Engineering **Construction Methods**

Spring Studio 4 – Urban Form **Research Methods Professional Practice**

Year 2

morphologies

Capstone Studio 1 (or multi-disciplinary studio-1) Cognate 1 Cognate 2

Capstone Studio 2 (or multi-disciplinary studio-2) Cognate 3 Cognate 4 Year 3

experimentation

Fall

Spring

Experimentation: Inquiry into an approach that integrates design elements, theory, history, technical knowledge, and life experiences into a comprehensive design strategy



Cleveland Campus





W.25th Rapid Stop Ohio City



West Side Market Ohio City



Great Lakes Brewing Company Ohio City



Monroe Street Cemetery Ohio City



The Velvet Tango Room Duck Island

Scranton Habitat Restoration

Cuyahoga River

12

The Red Line Greenway Ohlo City



Studio 1/Walworth Run - context



The Fairmont Creamery Tremont



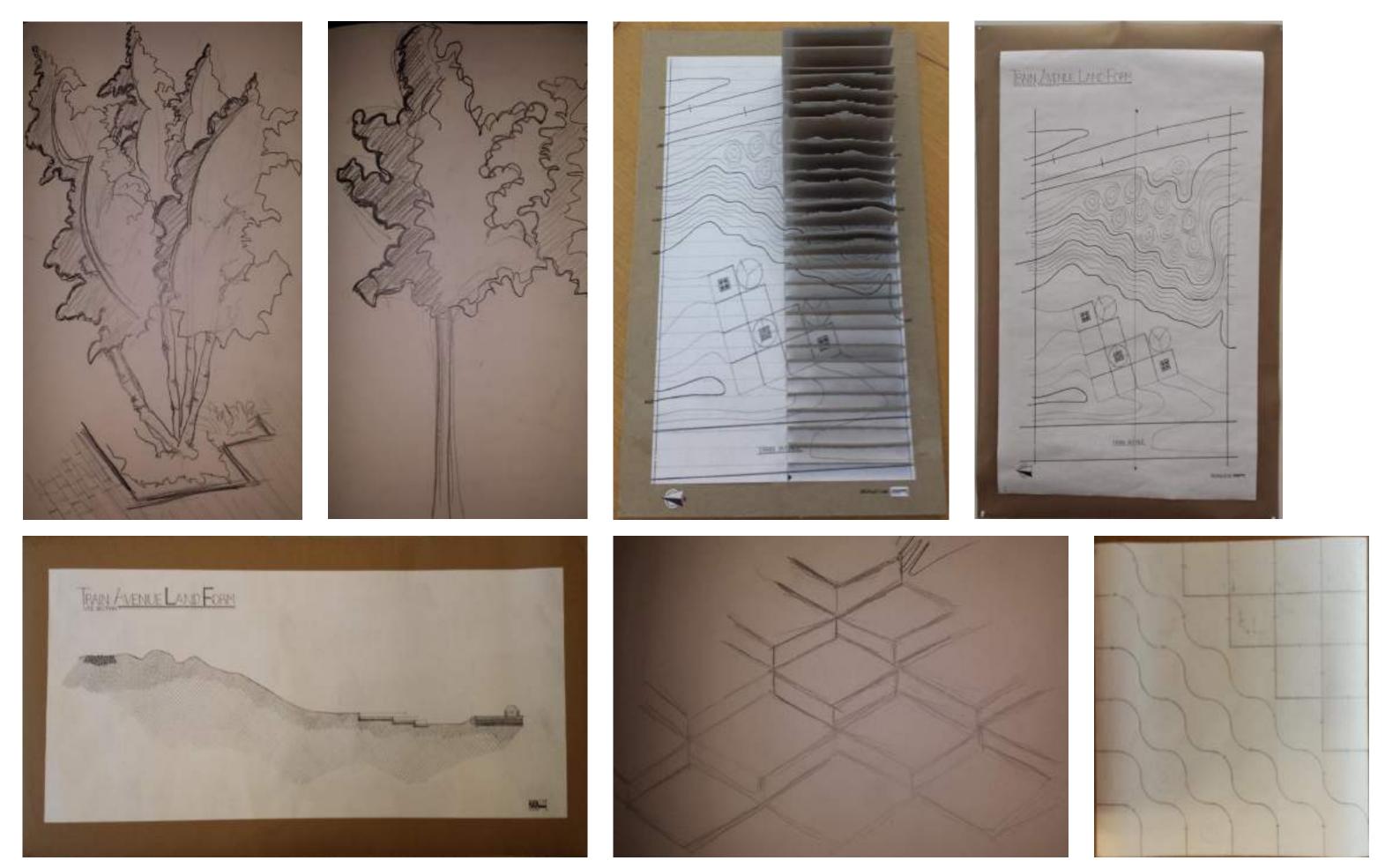
St. Theodosius Tremont



Lincoln Park Tremont



Tremont TapHouse Tremont



Studio 1/Walworth Run – sketches and concept iterations



Studio 1/Walworth Run – concept development



Studio 2/Warren Vacancy – a community fragmented





aging of existing infrastructure.

The Garden District is a neighborhood in close prov- Vacancy is at an all-time high, with more soon to follow. As These non-productive landscapes are a burden imity to downtown Warren, Ohio. The housing stock homes are foreclosed upon, many of them result in abanconsists of early 20th century structures whose con- donded structures, causing dangerous conditions to the struction coincided with the industrial success of the surrounding community. Trumbull Neighboorhood Parttown. As the manufacturing industries continue to dinership has been working to stabilize these communities minish, economic forces have driven community mem- through incentive programs and if necessary, demolition . bers elsewhere in search of opportunity. This trend has of uninhabitable homes. These demolitions typically result need for a more efficient and beautiful means to worsened with the increase of urban sprawl and the in lawn monocultures that require regular maintenance.

socially, ecologically and economically. The cost of maintaining these empty lots has fallen largely on the city and ultimately the taxpayers. The culmination of these issues, along with dependency on chemicals and mowing has called attention to the manage the issues of vacancy.





Vacancy Mopping of the Garden District



Studio 2/Warren Vacancy – a community reconnecting

Experimental Ecolom

The encountry of Lars in 1919, out privite the apportanity to inc posallo wootogical improvement coperimental week, particulary at experimental ways, particulary in the possibility of appropring ver-care hot hormone mere available The revealed on incorporates land art and style biograp measure to improve the vacanthill.







Proximity Priority Zone

lacined while widow of deventions, this zone plays a pivotal role in connecting the neighborhood to Warrero ginal onto the down town shite to and he Malane's floor Terrord all tion of this lat is enhanced using nal forcing and blore



Solidify Streetscape

This early has a higher con-certarition of houses. The in-vitalization of this lot uses the Manchétion Money, cervite froz durichted houses to salidate the disent adapt. A nover cog-used and messed related by respect out loss by the

Contant Research and Research Chambins



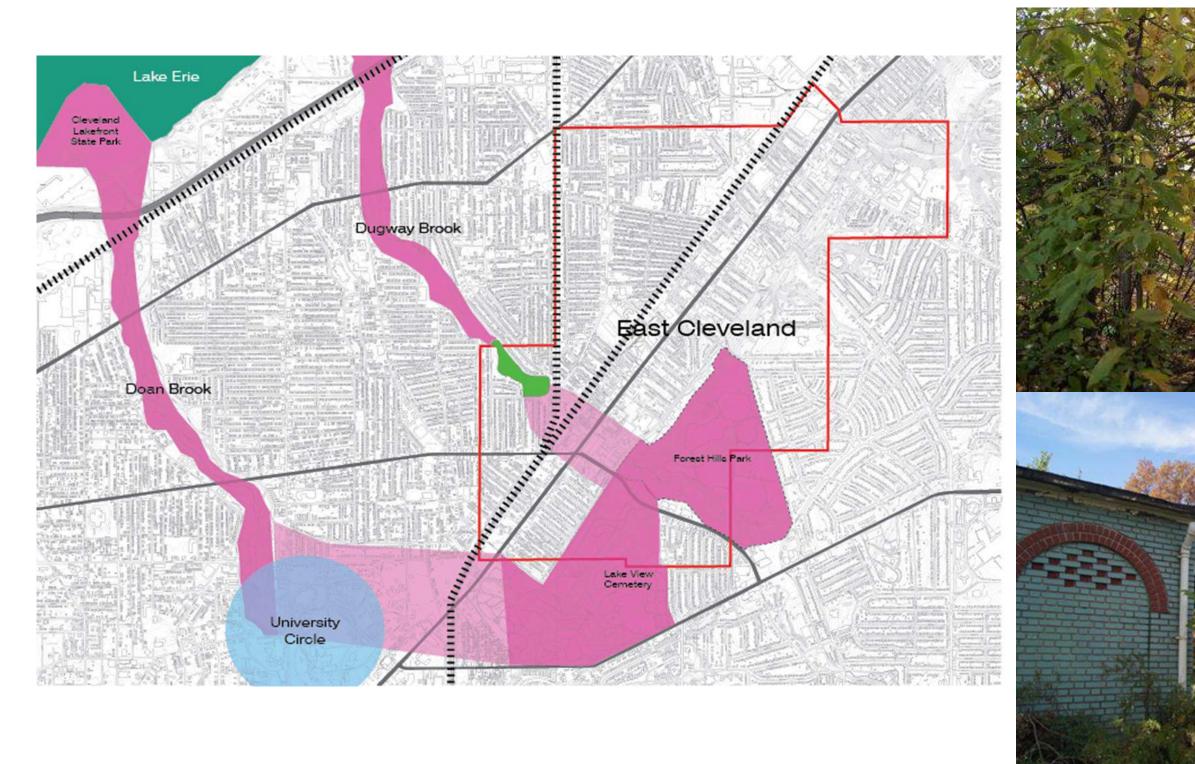






scatted adjacent to the saming Western Re re timeway, Nevaluationed rationalist condution patterns in the Sander District. This ampound uses materials and associat atternst is under to make this a year most draw. While access is improved, anythering properties benefit from ecological fulffering and haighting skills activity





Studio 2/Pattison Park– current conditions





EXISTING SITE

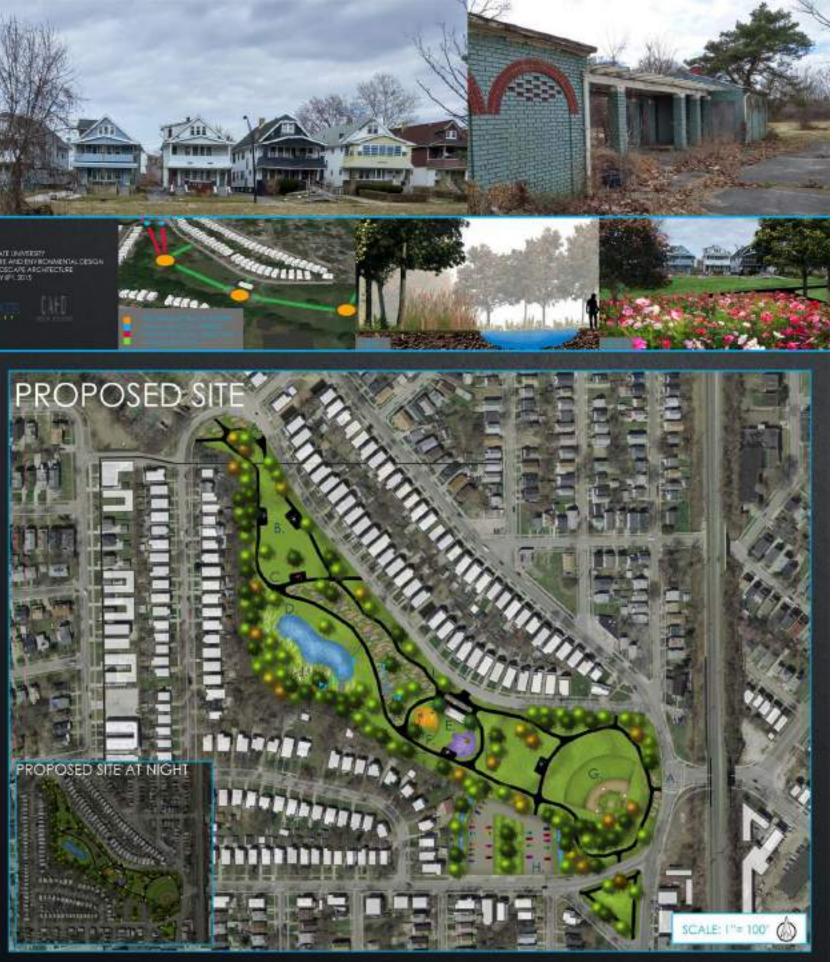
PATTISON PARK



PATTSON PARK IS A STAPLE THAT PROVIDES INTERACTION AND A SENSE OF PLACE WITHIN THE NEIGHBORING COMMUNITIES, WITH PATTISON PARK BEING IN BOTH EAST CLEVELAND, THIS GIVES THE PARK THE UNIQUE ABILITY TO CONNECT THE VO CITES, THE NEW PROPOSAL FOR PATTISON PARK EMPHASISES CONNECTIVITY HROUGH CONTINUOUS PHYSICAL INTERACTION (E.G. THE JOGGING PATH AND DUITDOOR EXERCISE STATIONS) AS WELL AS VISUAL CUES THROUGHOUT THE PARK (E.G. TREE CANOPY OPENINGS, SCENIC POND, NATVE WILD FLOWER PRESERVE, AND SUCCESSIONAL WILD GRASSES), THESE CONNECTIONS NOT ONLY CONNECT THE COMMUNITY WITH THE PARK BUT IT ALSO CONNECTS THE COMMUNITY WITH THE AREAS. NATURAL ECOSYSTEM

LEGEND

- ENTRANCE SIGNS
- OUTDOOR GYM JOGGING PATH
- SCENIC POND
- RESTROOM FACILITIES
- PLAYGROUND
- BASEBALL FIELD
- CONSOLIDATED PARKING
- NATIVE WILDFLOWER PRESERVE
- SUCCESSIONAL WILD GRASSES



Studio 2/Pattison Park– concept proposal

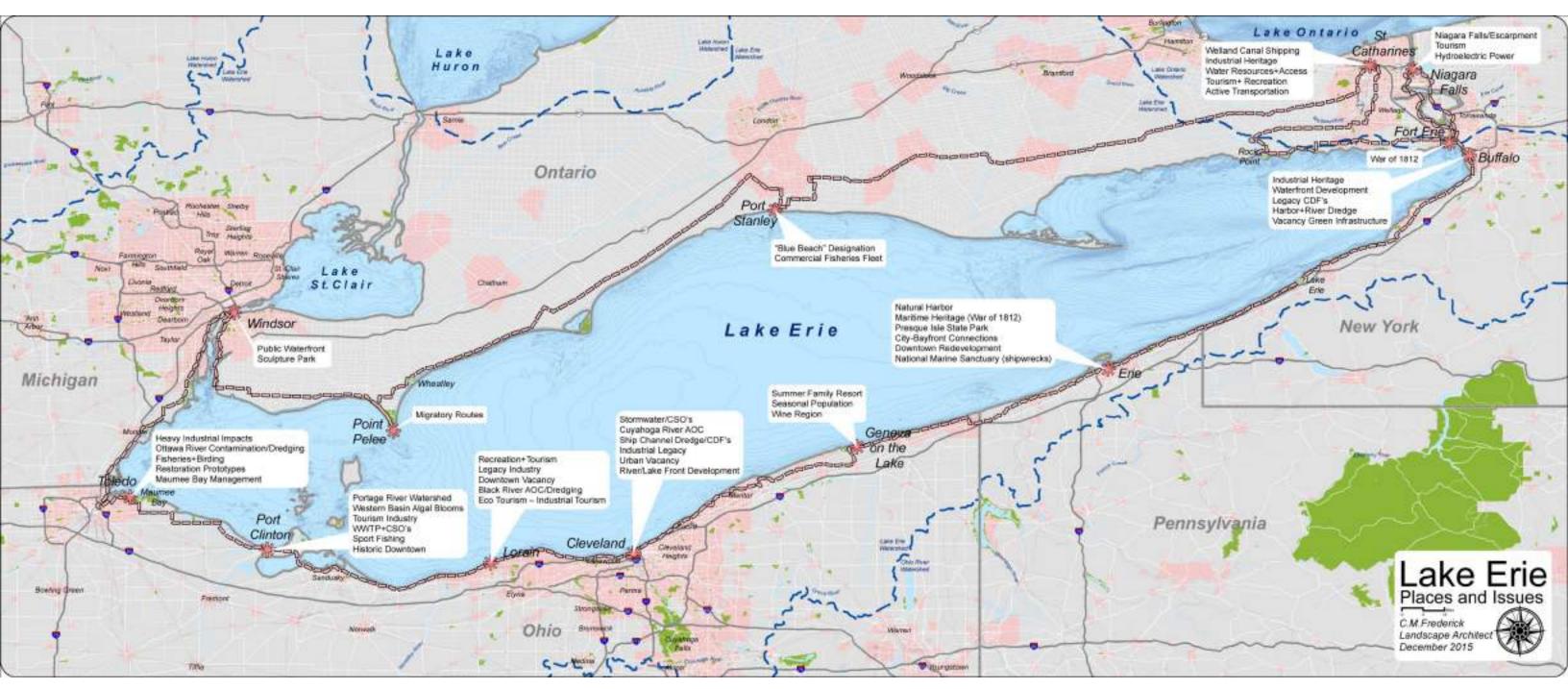




Studio 2/Pattison Park- a community comes together



Studio 2/Pattison Park– the past is the future



Studio 3/Systems+Infrastructure – Lake Erie/Cuyahoga Watershed







Camping











St. Catherines

Buffalo

Erie

Studio as experiment Noun: a test, trial, or tentative procedure; an act or operation for the purpose of **discovering** something unknown or of testing a principle, supposition, etc.

Verb: to try or test, especially in order to discover or prove something



Beginning of semester-hope springs eternal

Places/stakeholders

- Not in a lab or a controlled environment but the real (and most times) messy world
- Real places real people real issues, yet it can still result in the fantastic

Rules of engagement

- Client must understand that this is a studio and the studio is an **experiment** (sometimes a contract might be needed)
- Students must realize the issues of the client/place/program/context
- Client students professor must collaborate on the pragmatic teaching objectives as well as the serendipity of design process (sometimes it is purposeful and sometimes it just feels good)
- Client should be at a different place at the conclusion of the project

Studio 3 intent

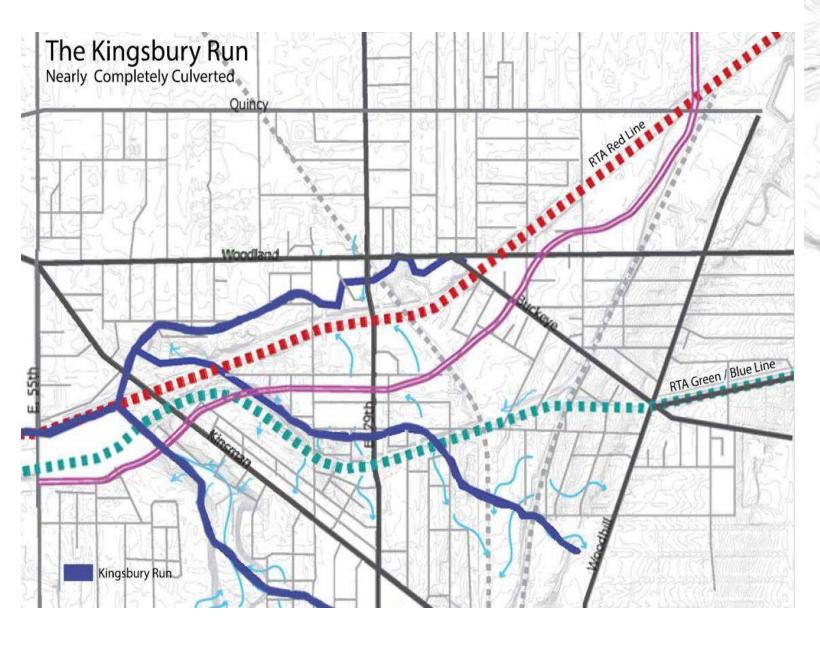
Water as system and framework for design with technical requirements – yet it is also magical (and the reason for life on the planet)

If there is magic on this planet, it is contained in water.

Loren Eisely, The immense Journey, 1957

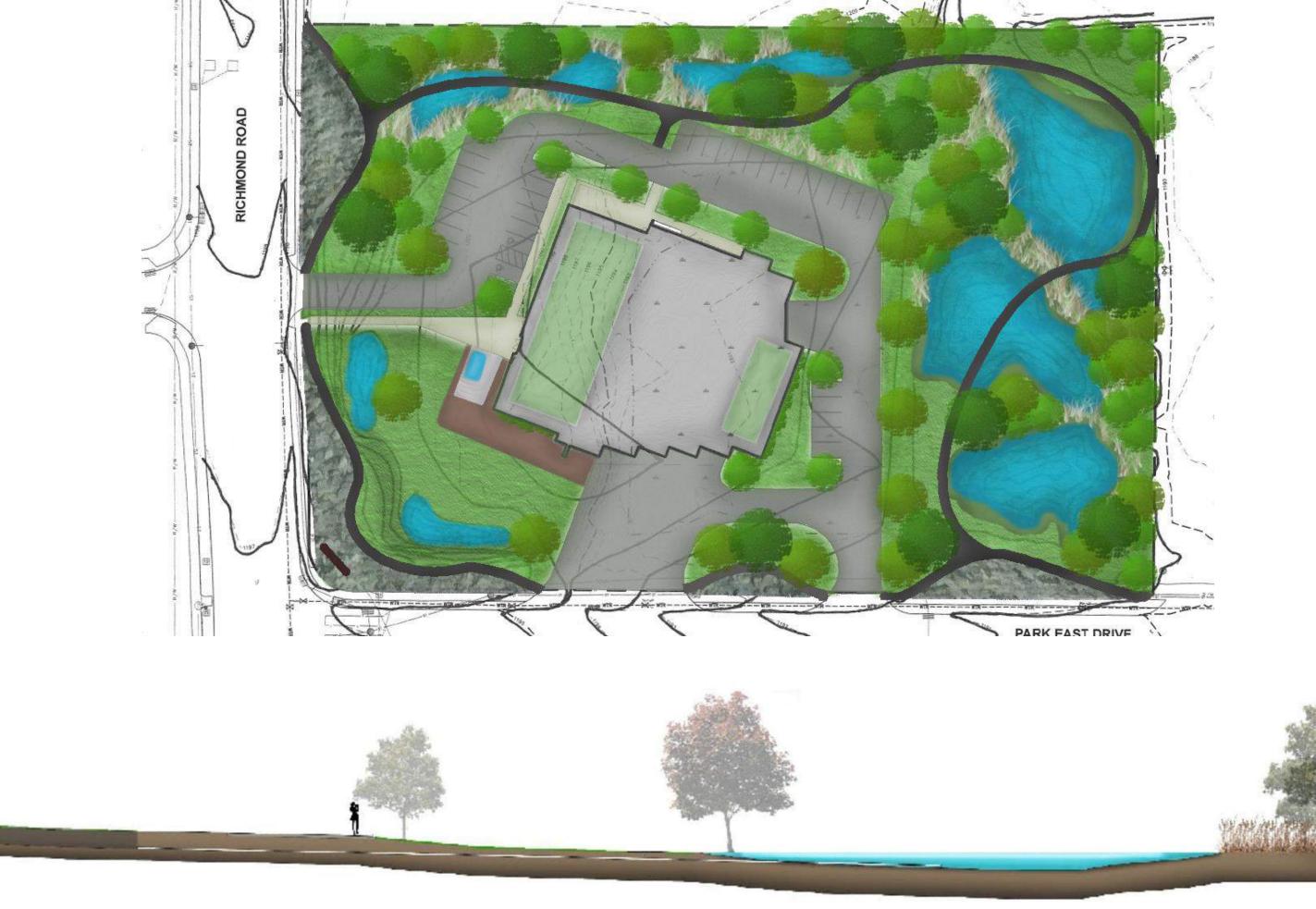
Technical Requirements

- Watershed delineation
- Land-cover mapping
- Plant community assessment
- Soils mapping
- Topography analysis
- Pre-development Q calculation
- Site grading
- Planting design
- Post-development Q calculation
- BMP/GI case studies

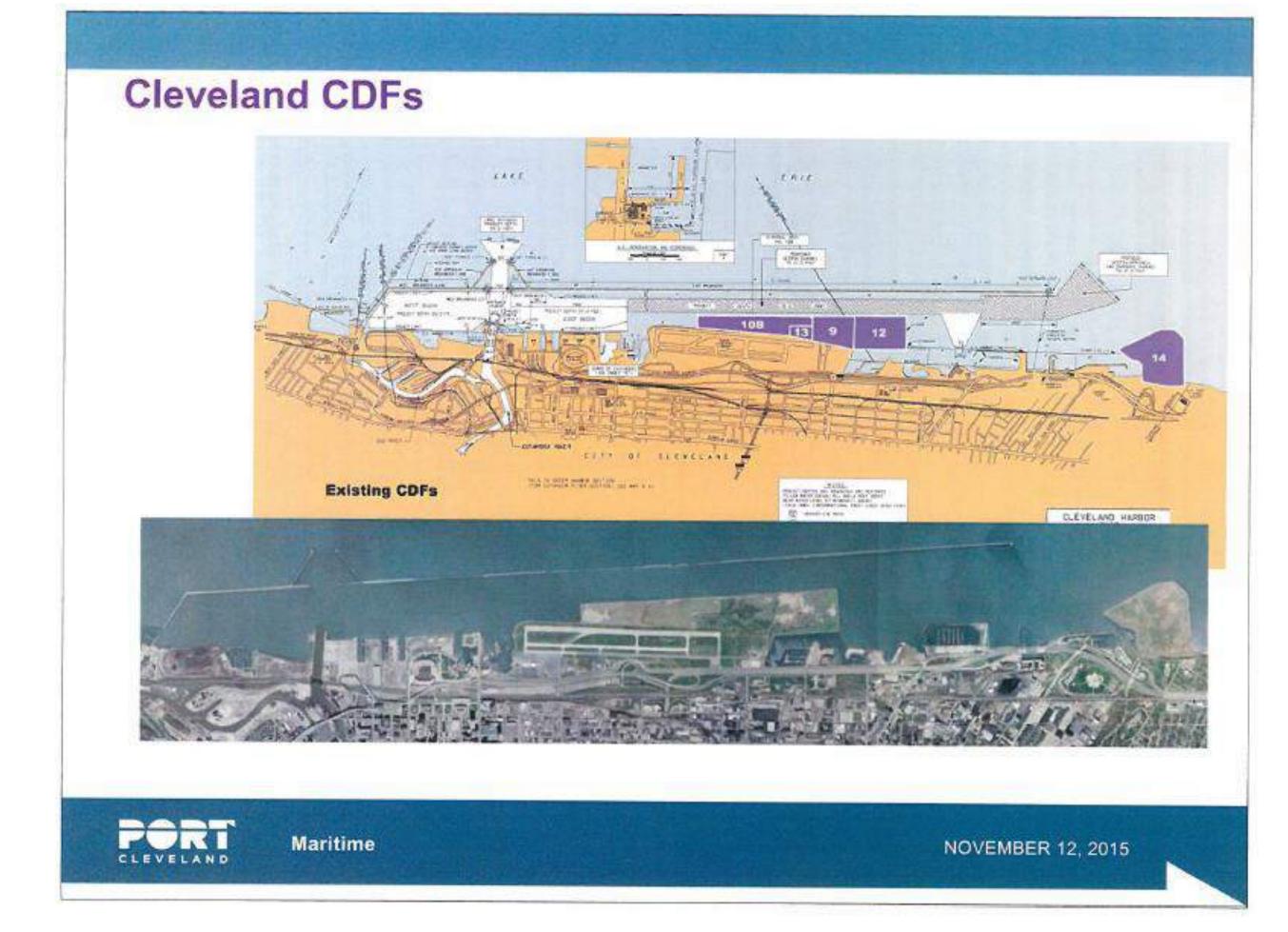




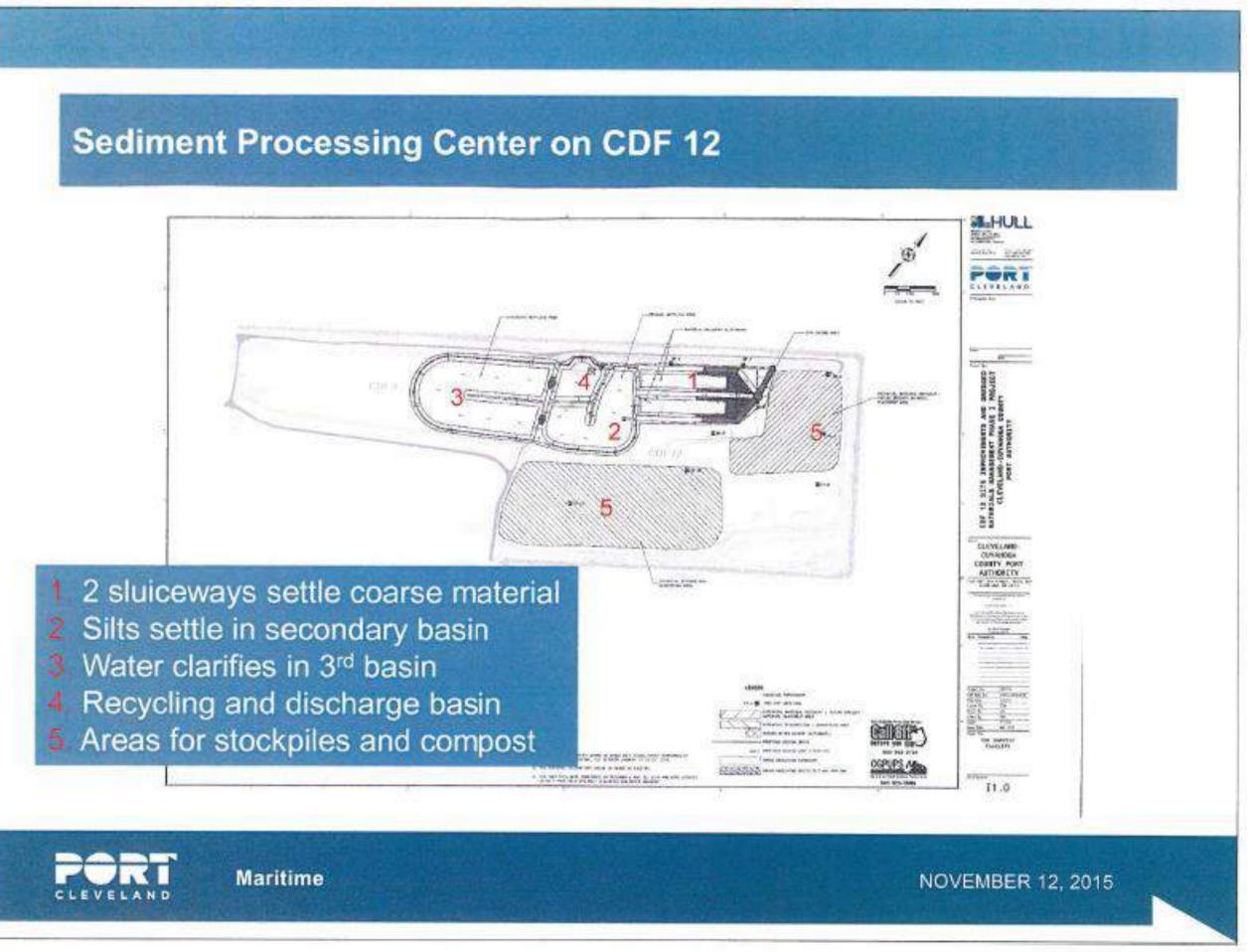
Studio 3/Kingsbury Run – "Restoration Corridor"



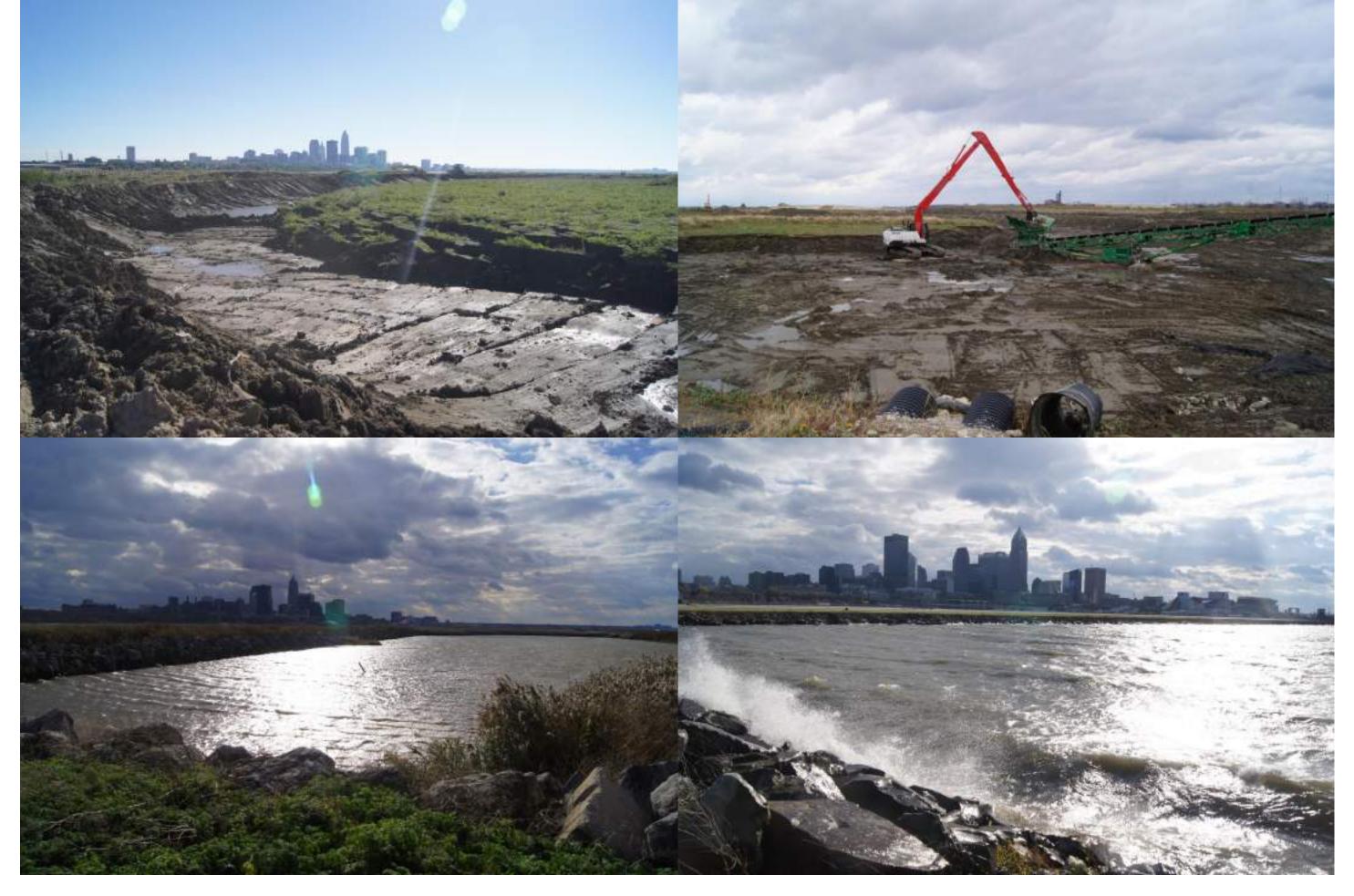
Studio 3/Beachwood Fire Station – the movement of water to organize a site



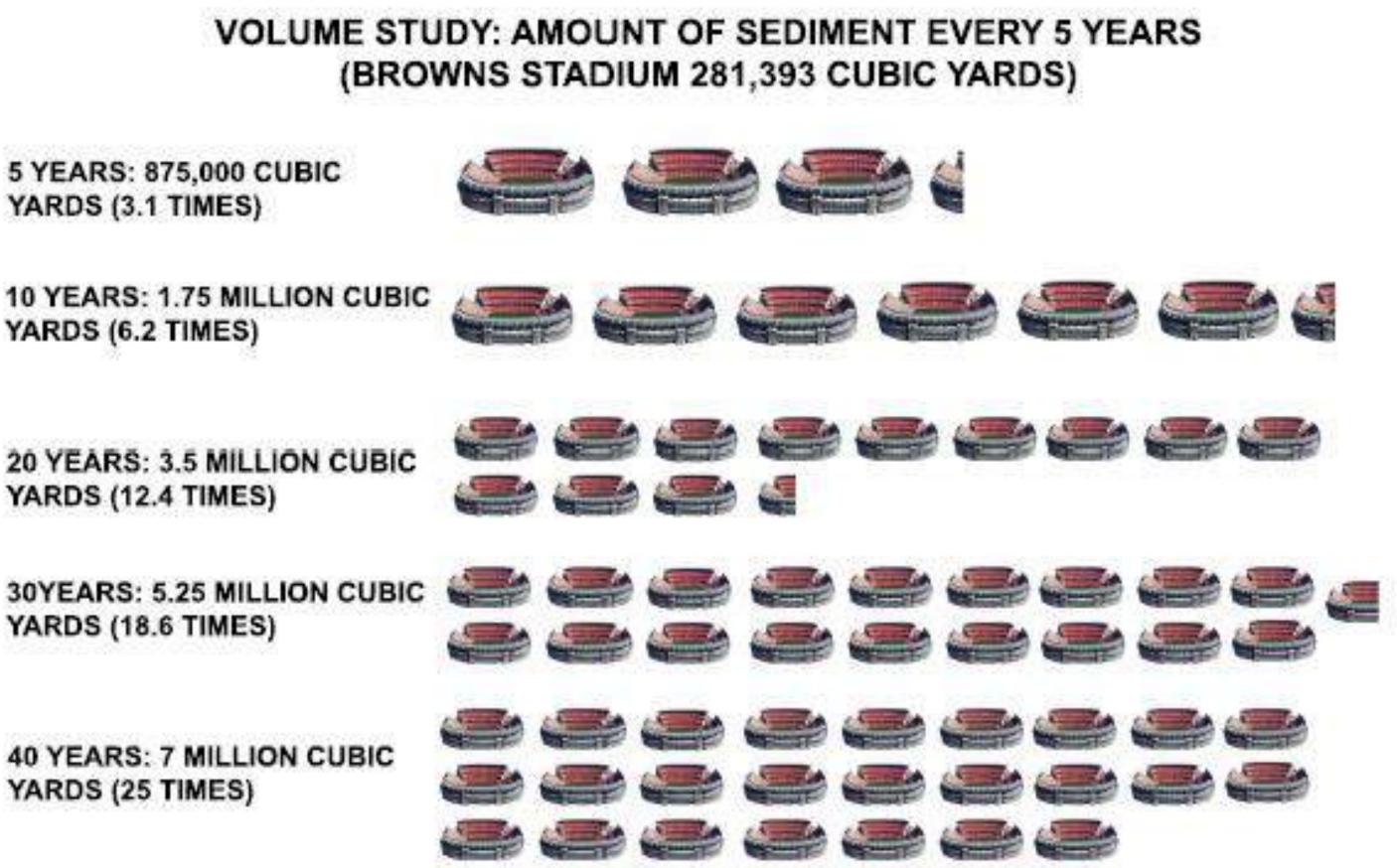
Studio 3/Port of Cleveland – the movement of sediment and creating open space



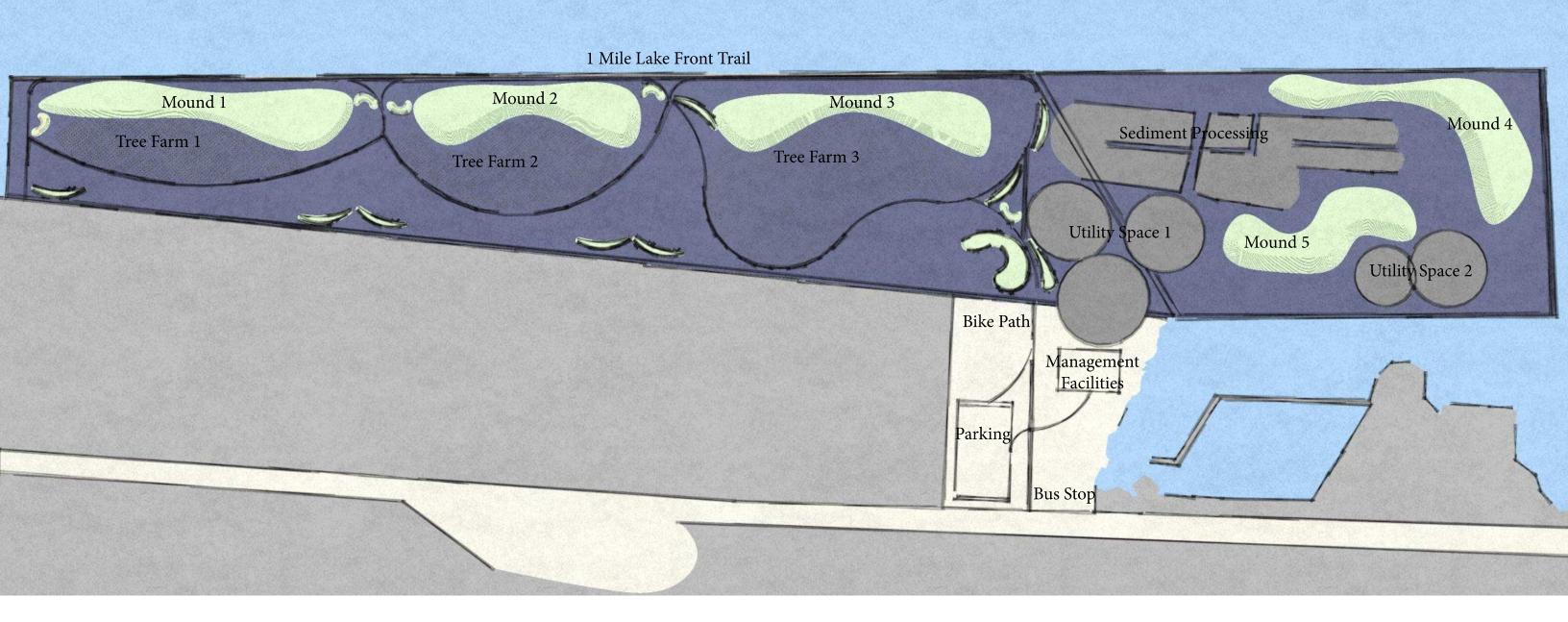
Sustainable Sediment Management



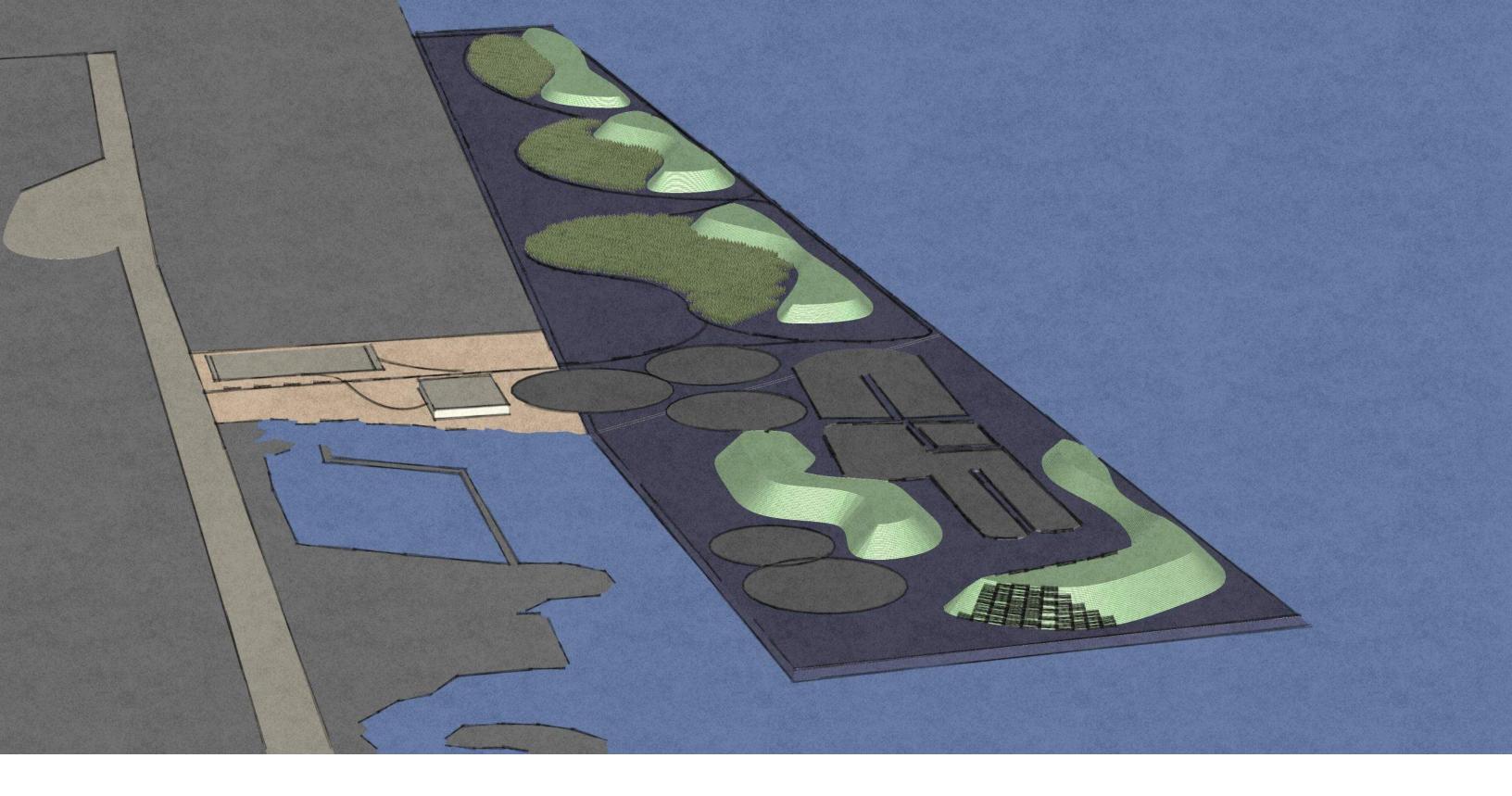
November 2015 – existing conditions



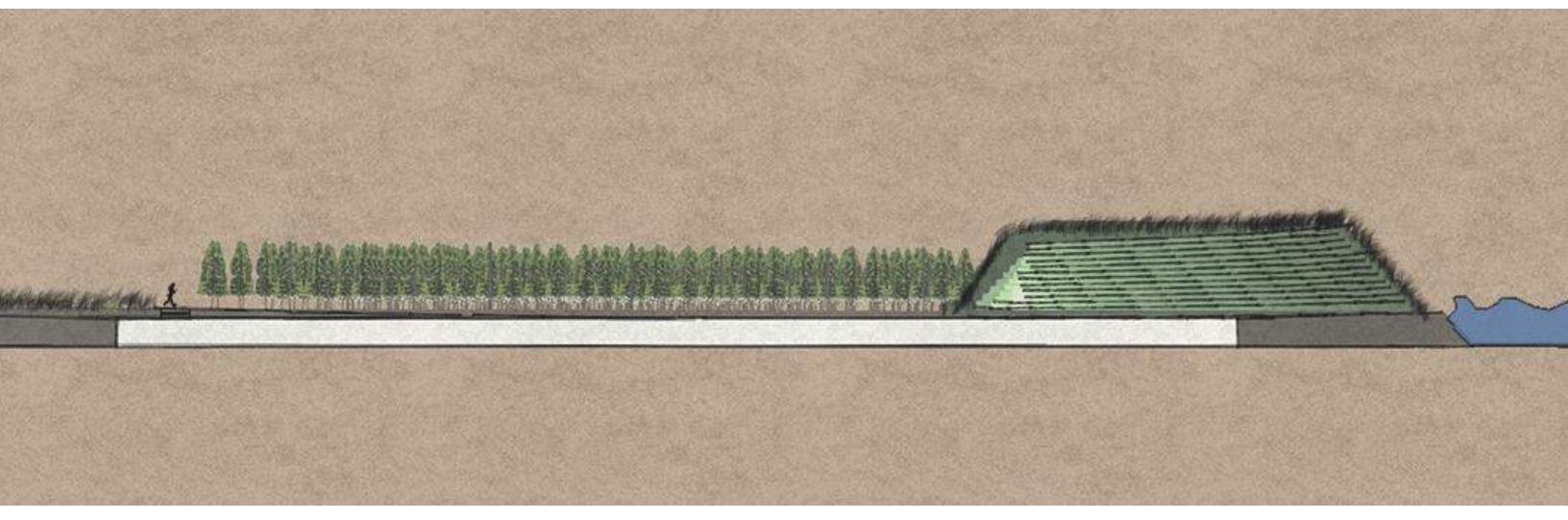
40 year lifespan – 250,000 CY/yr – 60 to 80, 000 CY to harvest

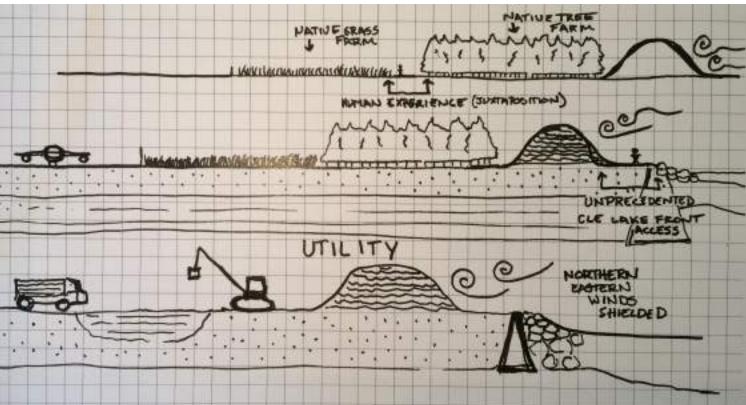


Lake Erie Sand Dunes



Dunes as protection for tree farm/future park vegetation



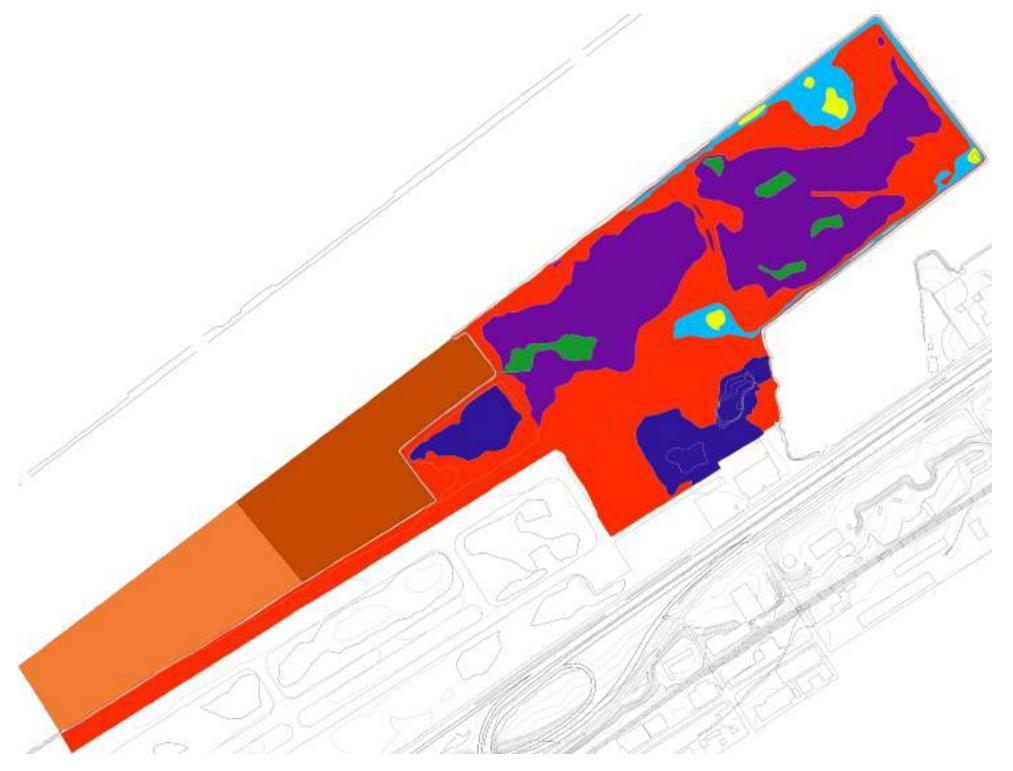


Section of tree farm and dunes/process diagram



Sediment layering- open space as ecological levels

SURFACE AREA / ECOREGION



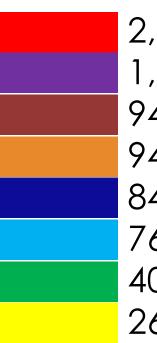
INTERIOR PLATEAU

ERIE DRIFT PLAINS

HURON/ERIE LAKE PLAIN

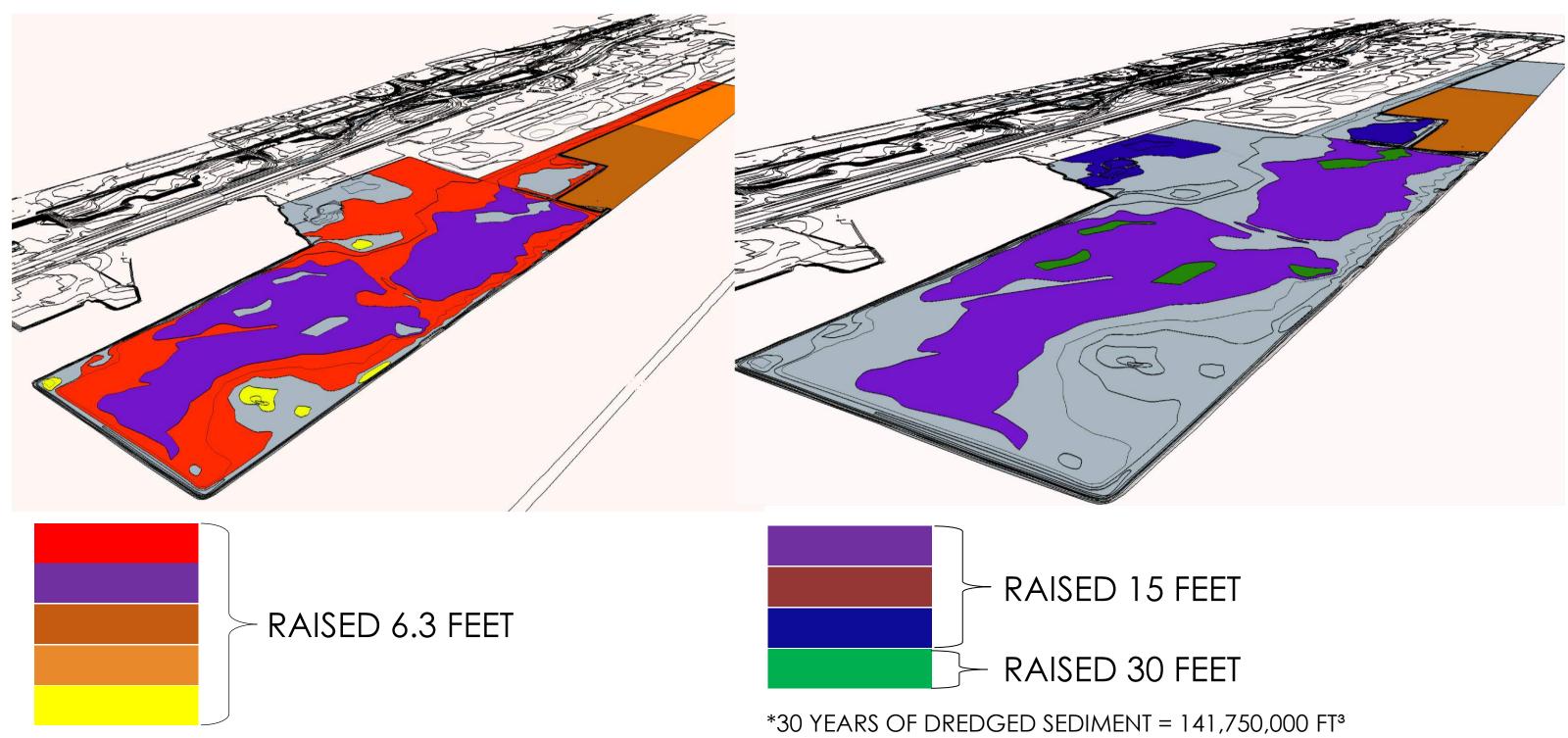






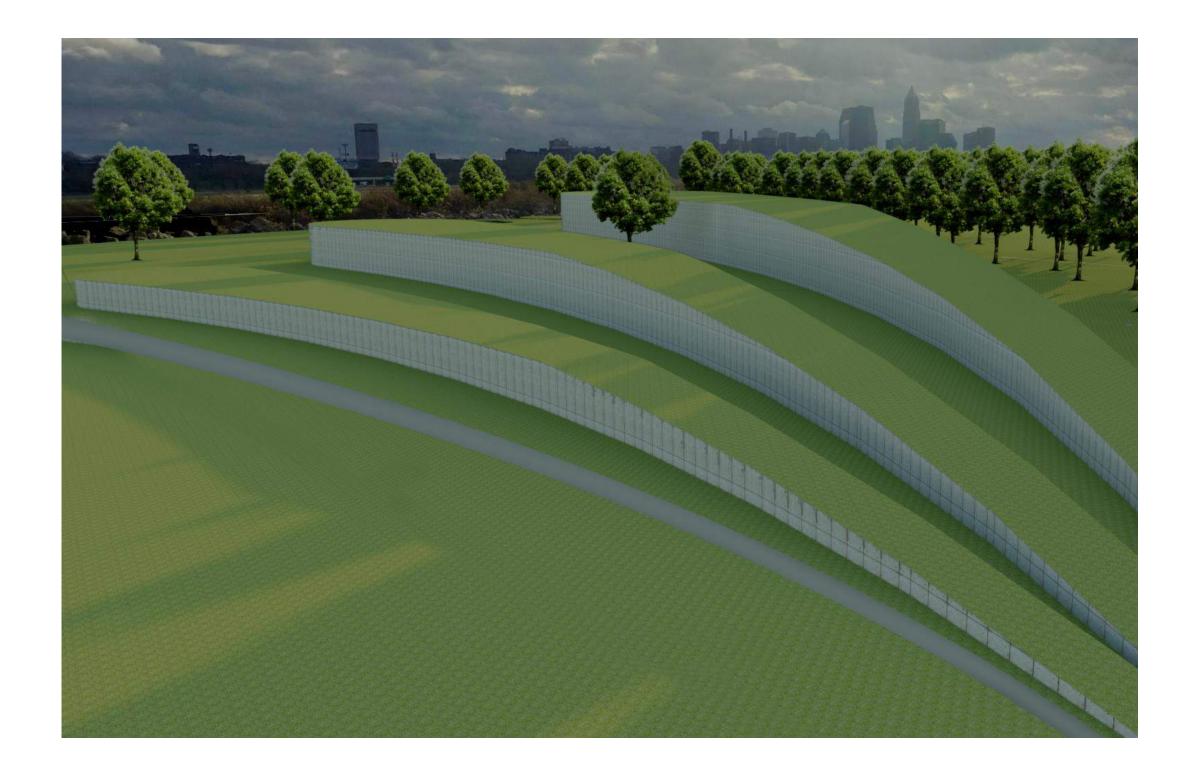
2,893.48 FT² 1,561.75 FT² 941.458 FT² 941.458 FT² 849.64 FT² 761.64FT² 406.31 FT² 264.64 FT²





*15 YEARS OF DREDGED SEDIMENT = 70,857,000 FT³

Ecological phasing management



Terrace structures

INTERIOR PLATEAUPRAIRIE



Bitternut Hickory Carya cordiformis



Bluestem Grass Andropogon gerardi



Rattlesnake Master Eryngium yuccifolium

ERIE DRIFT PLAINSFOREST



American Beech Fagus grandifolia



Red Maple Acer rubrum



Black Birch Betula lenta

HURON/ERIE LAKE PLAINBEACH



American Beachgrass Ammophila breviligulata



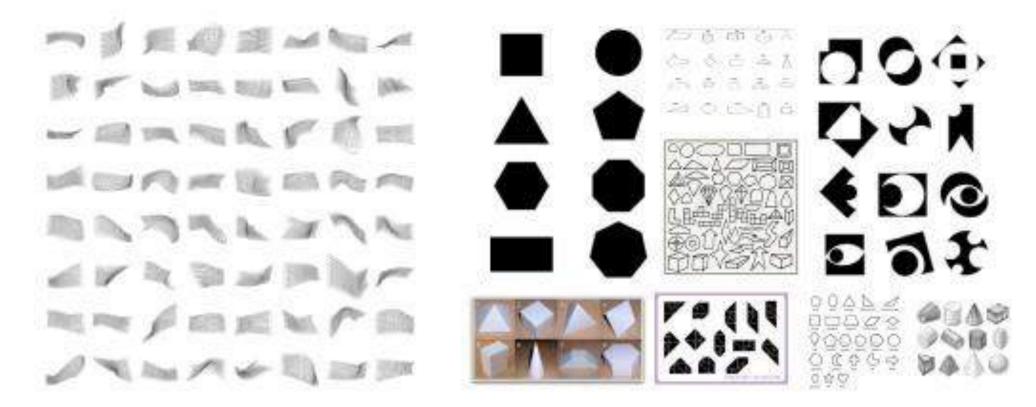
Silverweed Cinquefoil Argentina anserine



Spotted Horsemint Monarda punctata



"Another beautiful day in Cleveland"



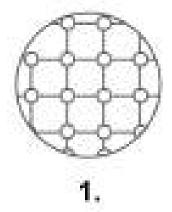


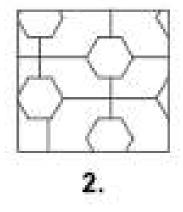
Landform texturing

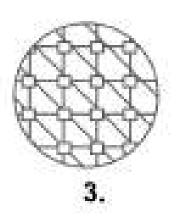
FORM/ TEXTURE STUDY

GEOMETRIC FORMS

- 1. CIRCLE WITH FORMAL TEXTURE (REPITION ACTIVITY)
- 2. SQUARE WITH INFORMAL TEXTURE (RYTHM ACTIVITY)
- 3. CIRCLE WITH FORMAL TEXTURE (DIRECTIONAL RELATION)
- 4. SQUARE WITH RADIATION TEXTURE (GROUP RELATION)

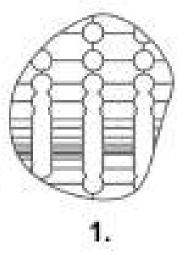


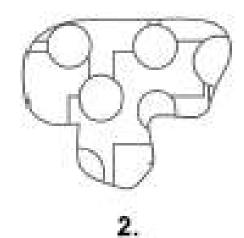


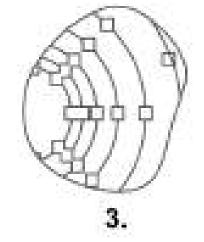


ORGANIC FORMS

- 1. ORGANIC FORM WITH GRADATION TEXTURE (GROUP RELATION)
- 2. ORGANIC FORM WITH INFORMAL TEXTURE (DIRECTIONAL ACTIVITY
- 3. ORGANIC FORM WITH RADIATION TEXTURE (DIRECTIONAL RELATION)
- 4. ORGANIC FORM WITH GRADATION TEXTURE (SPACE RELATION)

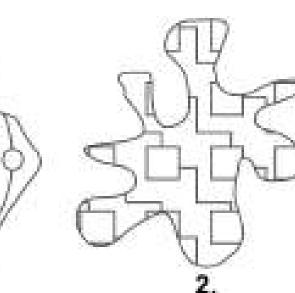


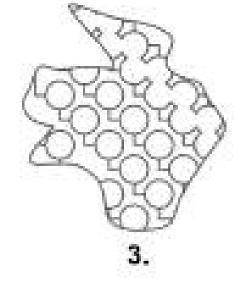




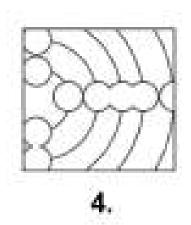
RANDOM FORMS

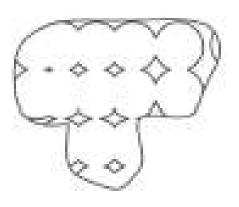
- 1. RANDOM FORM WITH RADIAL TEXTURE (BALANACED RELATION)
- 2. RANDOM FORM WITH INFORMAL TEXTURE (DIRECTIONAL RELATION)
- 3. RANDOM FORM WITH INFORMAL TEXTURE (DOMINANT RELATION)
- 4. RANDOM FORM WITH FORMAL TEXTURE (FREQUENCY ACTIVITY)



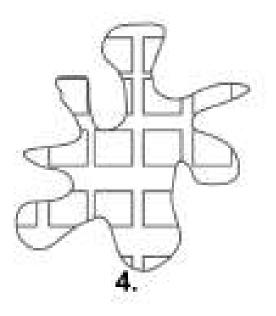


Conceptual studies

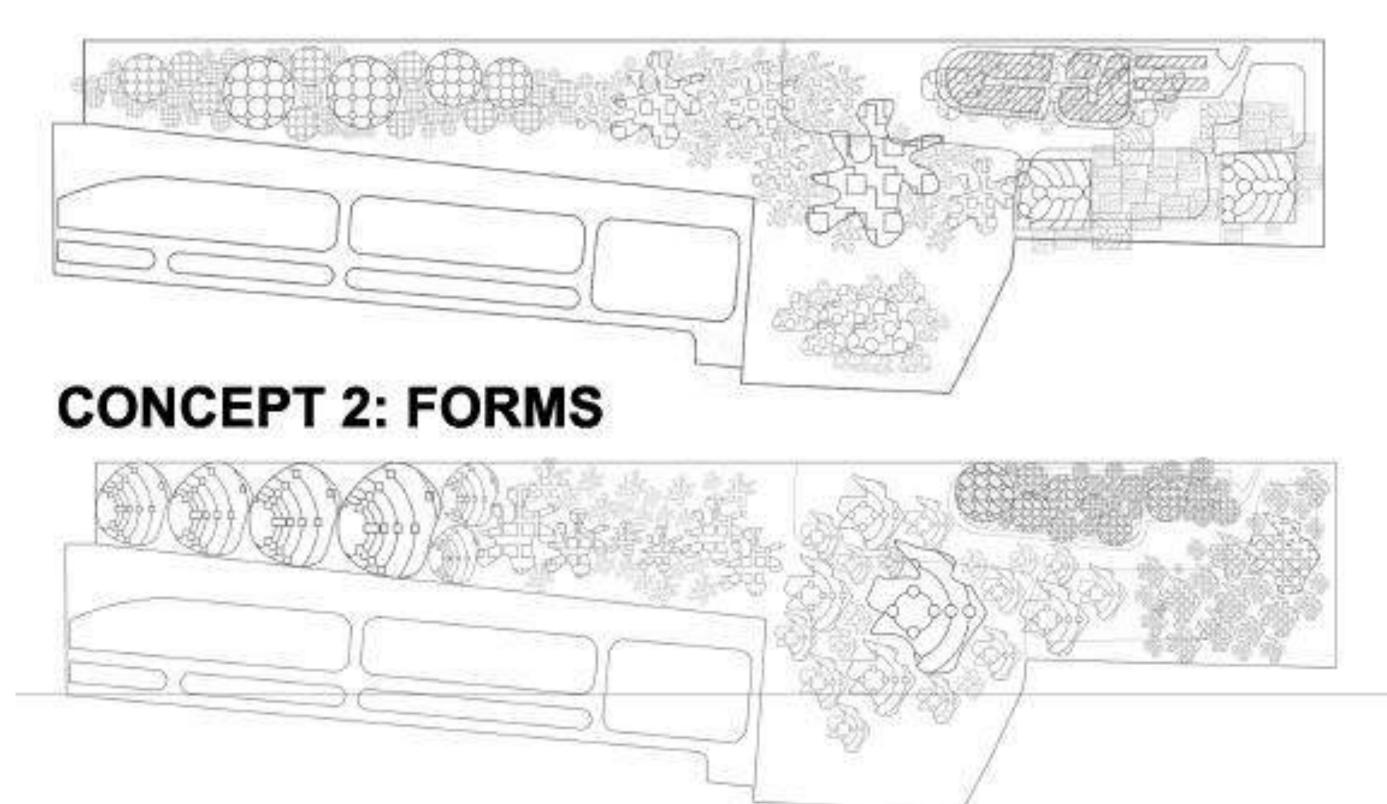






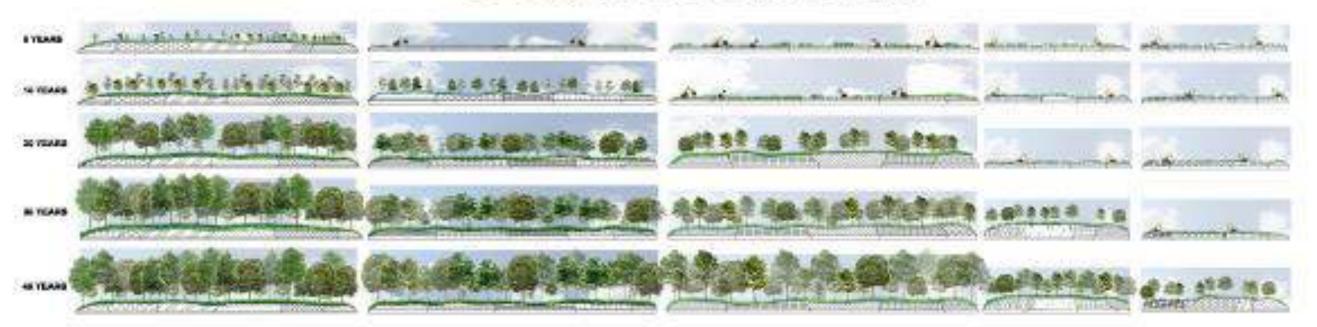


CONCEPT 1: FORMS

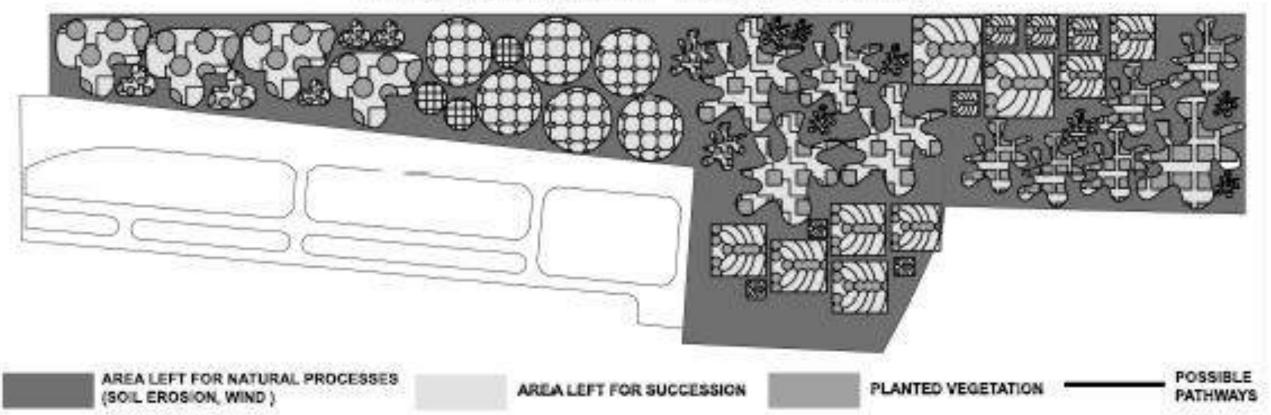


Concept development

SECTION CUTS IN YEARS



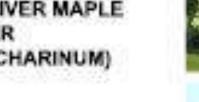
FORM CONCEPT MASTER PLAN



Master plan and phasing



1. SLIVER MAPLE (ACER SACCHARINUM)





2. OHIO BUCKEYE (AESCULUS GLABRA)



7. FRINGE TREE

(CHIONANTHUS

VIRGINICUS)

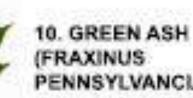
8. YELLOW WOOD (CLEDRASTRIS LUTEA)



3. SHADBLOW (AMELANCHIER CANADENSIS)



9. SPINDLE TREE (EUONYMUS ATROPURPUREUS)



11. AMERICAN HOLLY

(IIEX OPACA)

PENNSYLVANCIA)



hing For Personal States





Planting palette





14444



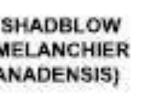




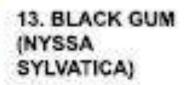
12. TUPLIP POPLAR (LIRIODENDRON TULIPFERA)

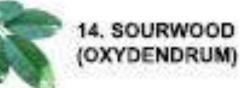


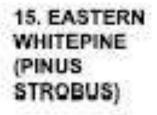


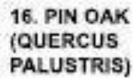




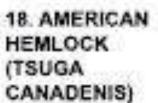
















End of semester-abandon hope, all ye who enter here Expectations/Time Frame/Follow-up