

Country / City .....

United States, Morgantown

University / School .....

West Virginia University...

Academic year .....

2018

Title of the project .....

Philadelphia International Airport

Authors .....

Jake Bolen, Chandler Miller, Abigail Fisher





# PERFORMATIVE NATURE

Barcelona International Landscape Architecture Biennial

September 2018 **Barcelona**

SCHOOL PRIZE

X International Landscape Architecture Biennial

Máster d'Arquitectura del Paisatge -DUOT - UPC

ETSAB- Escola Tècnica Superior

d'Arquitectura de Barcelona

Avenida Diagonal, 649 piso 5

08028 Barcelona-Spain

## TECHNICAL DOSSIER

Title of the project ..... Philadelphia International Airport.....  
Authors ..... Jake Bolen, Abigail Fisher, Chandler Miller.....  
Title of the course ..... Landscape Architecture 451.: Capstone Experience.....  
Academic year ..... Spring 2018.....  
Teaching Staff ..... Instructor; Michael Hasenmyer, Project Advisor: Stefania Staniscia.....  
Department/Section/Program of belonging ..... Davis College of Agriculture, Natural Resources, and Design:.....  
..... Landscape Architecture.....  
University/School ..... West Virginia University.....

Written statement, short description of the project in English, no more than 250 words

..The Philadelphia International Airport landscape is 188 acres of barren, disturbed, under utilized land..The proposal for this landscape design was to transform the landscape and create an area for renewable energy.....

..First, designs were explored to create a rhythmic, theatrical landscape as users traveled through the system of highways that surround our site boundary..Once a consistent pattern was chosen, we used this system to implement program..elements throughout the design. Solar energy, biomass for renewable energy, and a tree nursery that contributes to.....

..green street initiatives throughout Philadelphia were all implemented.. After the implementation of main program....elements, it was realized that some spaces in the design could not successfully host certain programs. After realizing.....

..this, the third landscape category was established.. Inspired by Gilles Clement, this third landscape hosts elements in..the design such as wayfinding, designed plant community, wildlife mitigation, and public art in the landscape.....

..Since the landscape was previously disturbed, it was important to exhibit how it could once again be useful and.....productive. The project is successful in that it shows how landscapes can be inaccessible to humans, but still be.....

..very beneficial to them in terms of renewable energy production.....

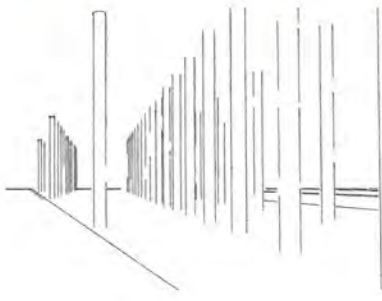
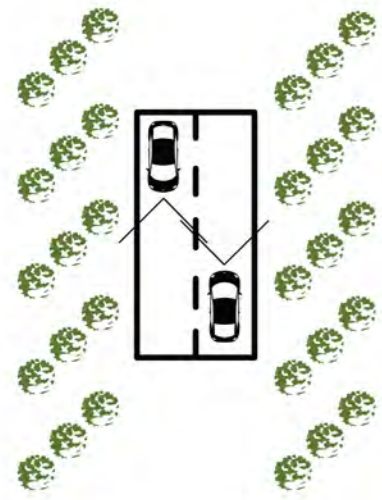
For further information

**Máster d'Arquitectura del Paisatge -DUOT - UPC**

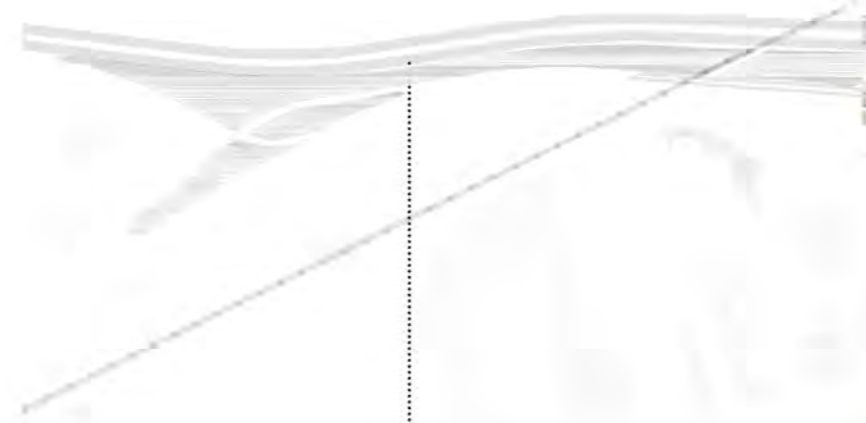
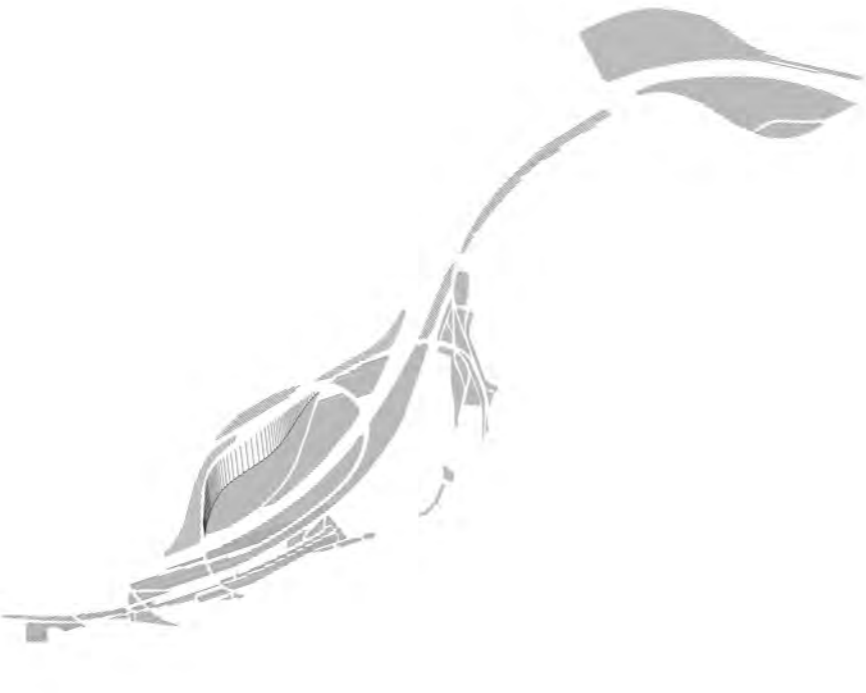
T: + 34 93 401 64 11 / +34 93 552 0842

Contact via email at: [biennial.paisatge@upc.edu](mailto:biennial.paisatge@upc.edu)

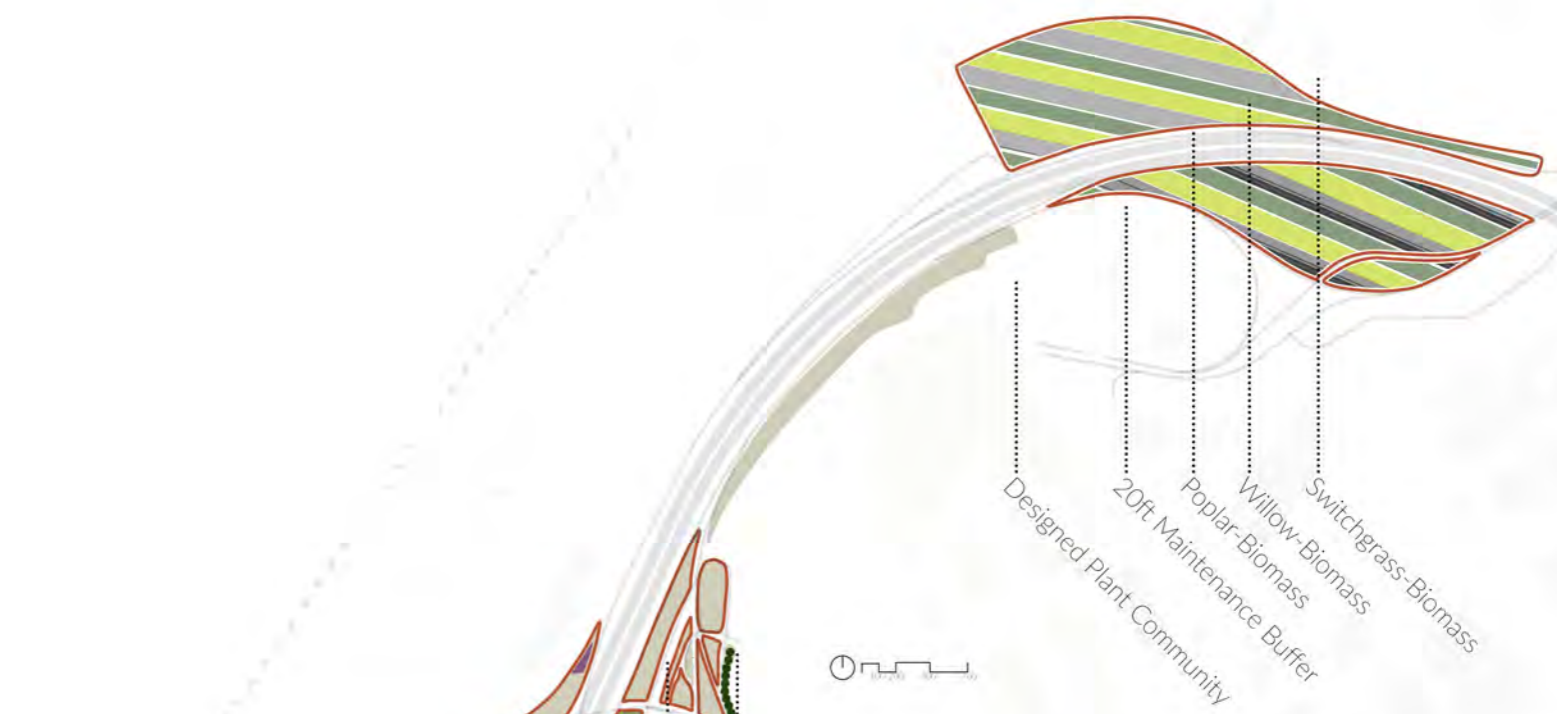
Consult the web page <http://landscape.coac.net/>



- Switchgrass
- Willow
- Poplar
- Designed Plant Community
- Solar Field
- Poplar
- Tree Nursery Trees
- Tree Nursery Structure
- Maintenance Entrance
- Wayfinding
- Maintenance Buffer



John Heinz Enhancement



Designed Plant Community  
 20ft Maintenance Buffer  
 Poplar-Biomass  
 Willow-Biomass  
 Switchgrass-Biomass

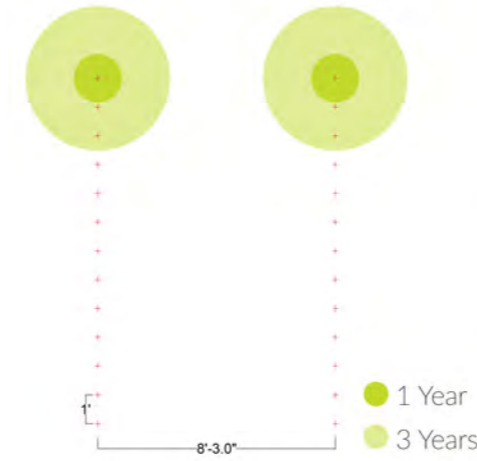
Septa Rail  
 Wayfinding Sculpture  
 Designed Plant Community  
 Wayfinding Color Link  
 Tree Nursery  
 Maintenance Entrance Point  
 Rhythmic Overhead Structures  
 Aspen/Hemlock Gateway  
 Land Art Centerpiece  
 Solar Field  
 20ft Maintenance Gateway  
 Wayfinding Sculpture  
 Tree Nursery  
 Wayfinding Sculpture  
 Designed Plant Community



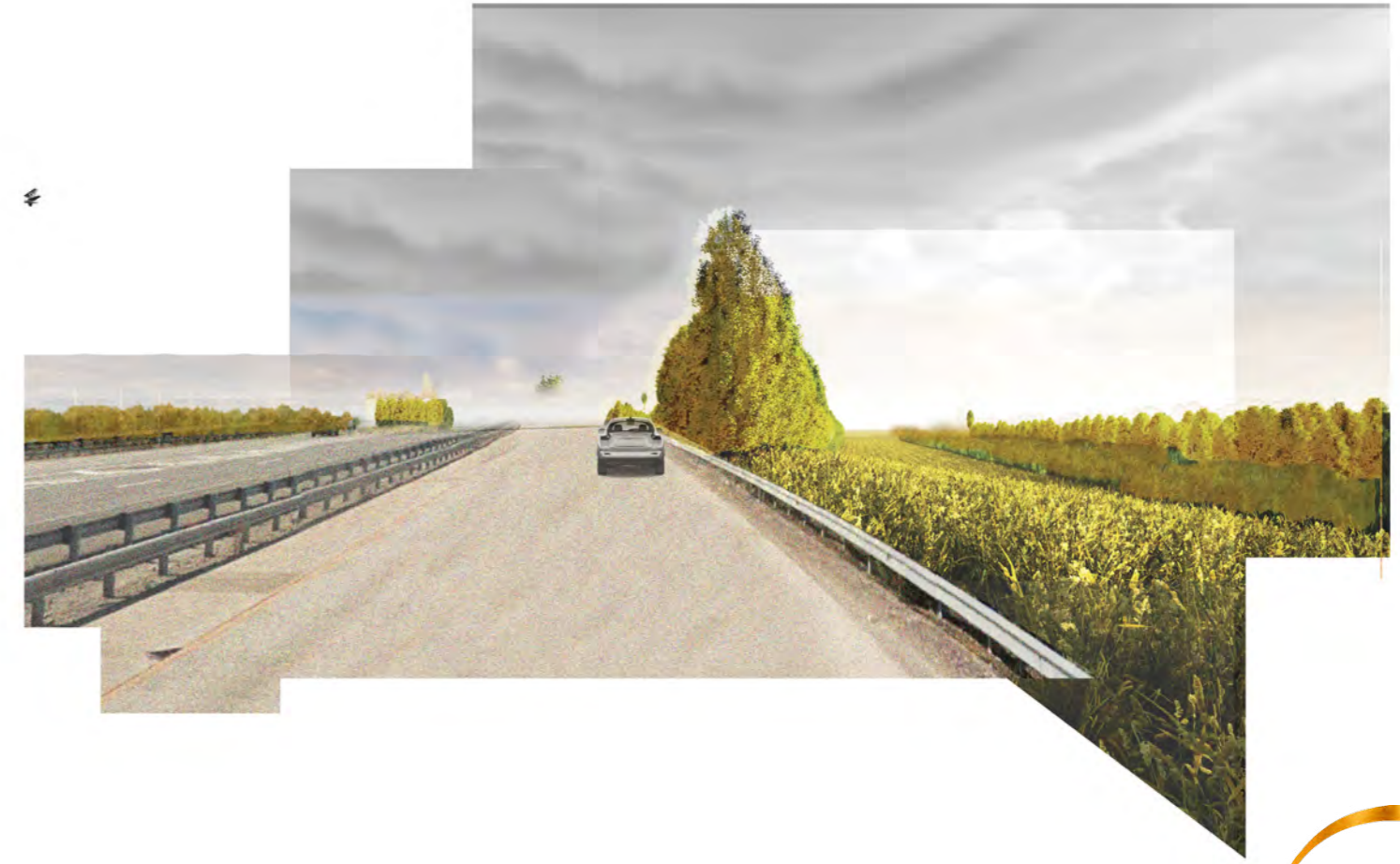
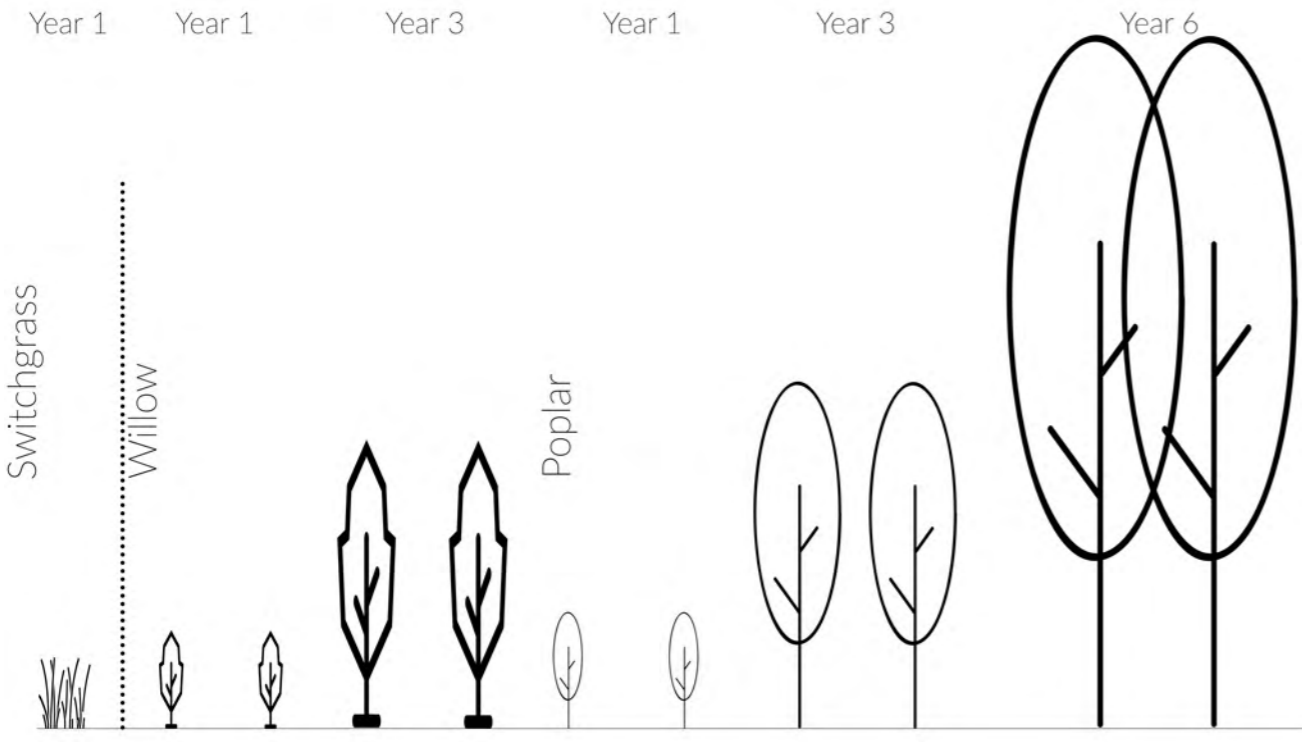
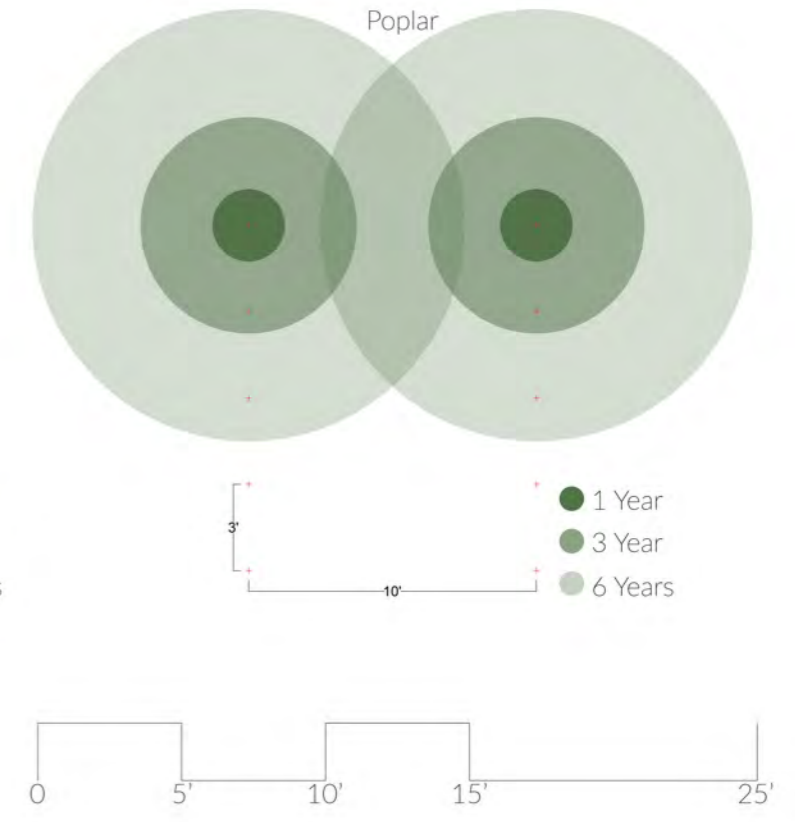
Switchgrass

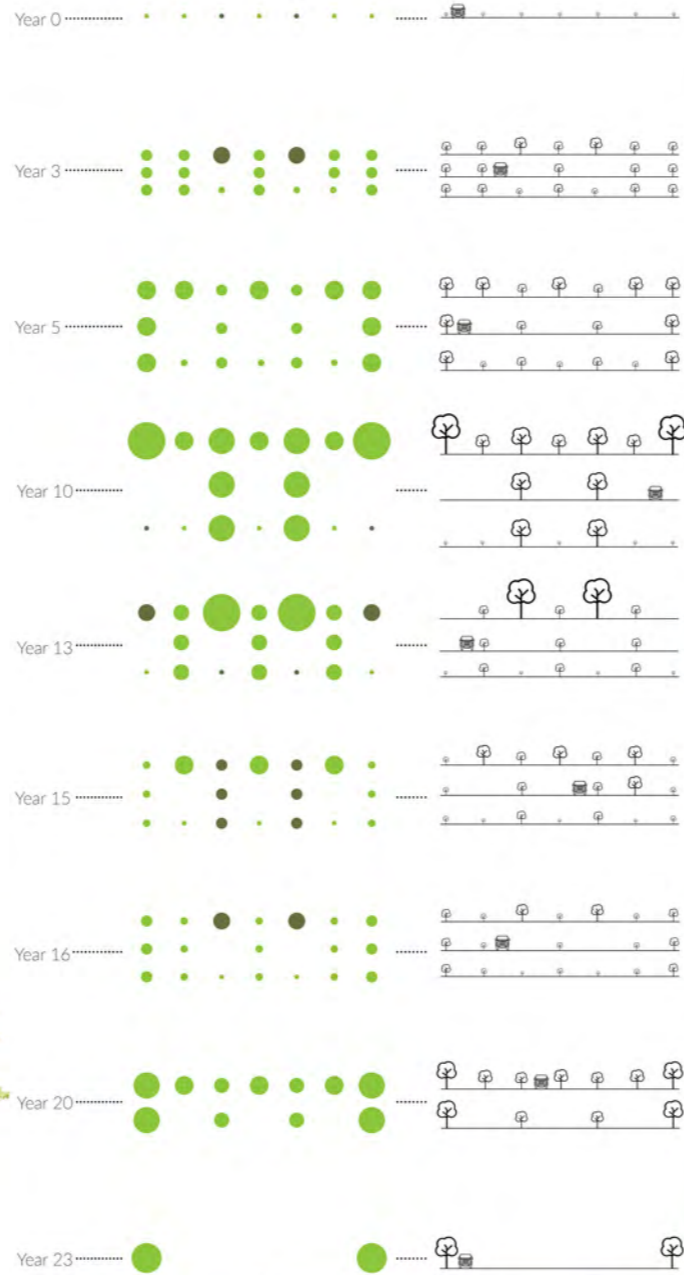
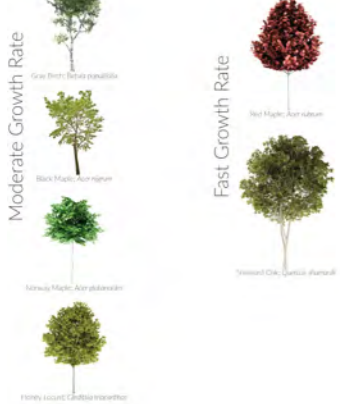
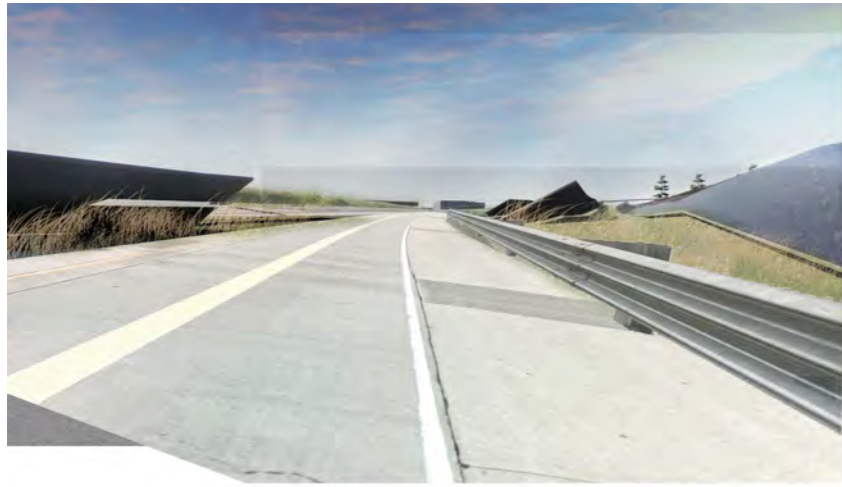


Willow



Poplar





The diagram to the left shows the methodology behind the planting design over the 20-year cycle. Trees are extracted and replanted based on growth rate. During this 20-year cycle, trees are extracted during years 3, 5, 10, 13, 15, 16, 20, and 23. After the 23rd year, trees are replanted and the cycle restarts itself. Each extraction year is broken up into 3 parts in the diagram, original tree plan, extracted tree plan, and replanted tree plan. A selection of trees was chosen for each category, "Moderate Growing Trees" and "Fast Growing Trees."

## Designed Plant Community

