

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

BOOK #: \_\_\_\_\_

# Port Covington

**EAST WATERFRONT PARK**

**PRESENTATION TO THE URBAN  
DESIGN & ARCHITECTURE  
REVIEW PANEL**

March 3, 2016



# **EAST WATERFRONT PARK**

## Introduction

**CAROLINE PAFF**  
Sagamore Development  
Vice President

## **PRIOR ACTIONS**

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January 28, 2016

East Waterfront Park:  
Schematic Action: Recommend approval with comments

## **RELATED PROJECTS**

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June 25, 2015

301 East Cromwell Street - Sagamore Spirit Distillery:  
Final Action: Recommend approval with comments

January 7, 2016

Port Covington Masterplan:  
Introduction Action: Continued

January 28, 2016

Under Armour Masterplan:  
Introduction Action: Recommend approval with comments

February 18, 2016

Port Covington Masterplan: Hanover Street & West of Hanover  
Action: Continued

## URBAN DESIGN GOALS

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Create a sense of arrival and make it a destination.

Make strong connections between uses, ecology and people.

Induce multi-modal behaviors through great design and investment in the public realm.

Make it walkable.

Include multiple points of view to ensure diversity and plan resiliency.

Innovate.

**JANUARY 28, 2016 - SITE PLAN**



0 60' 120' 240' **SCALE: 1" = 120'-0"**



**The Ribbon Path: Explore options and clarify a strategy for the ribbon path and how it is expressed.**

**The Pier Park: Consider its connection to Whiskey and designing a shelter at the water taxi landing. Also, clarify the areas of the decayed pier the design will keep and distinguish these areas in the design.**

## PRESENTATION OVERVIEW

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**EXISTING CONDITIONS** - Addison Palmer, STV Incorporated

**ECOLOGICAL CONTEXT** - Chris Streb, Biohabitats

**LANDSCAPE** - Michael Blier, Landworks Studio Inc.



# **EAST WATERFRONT PARK**

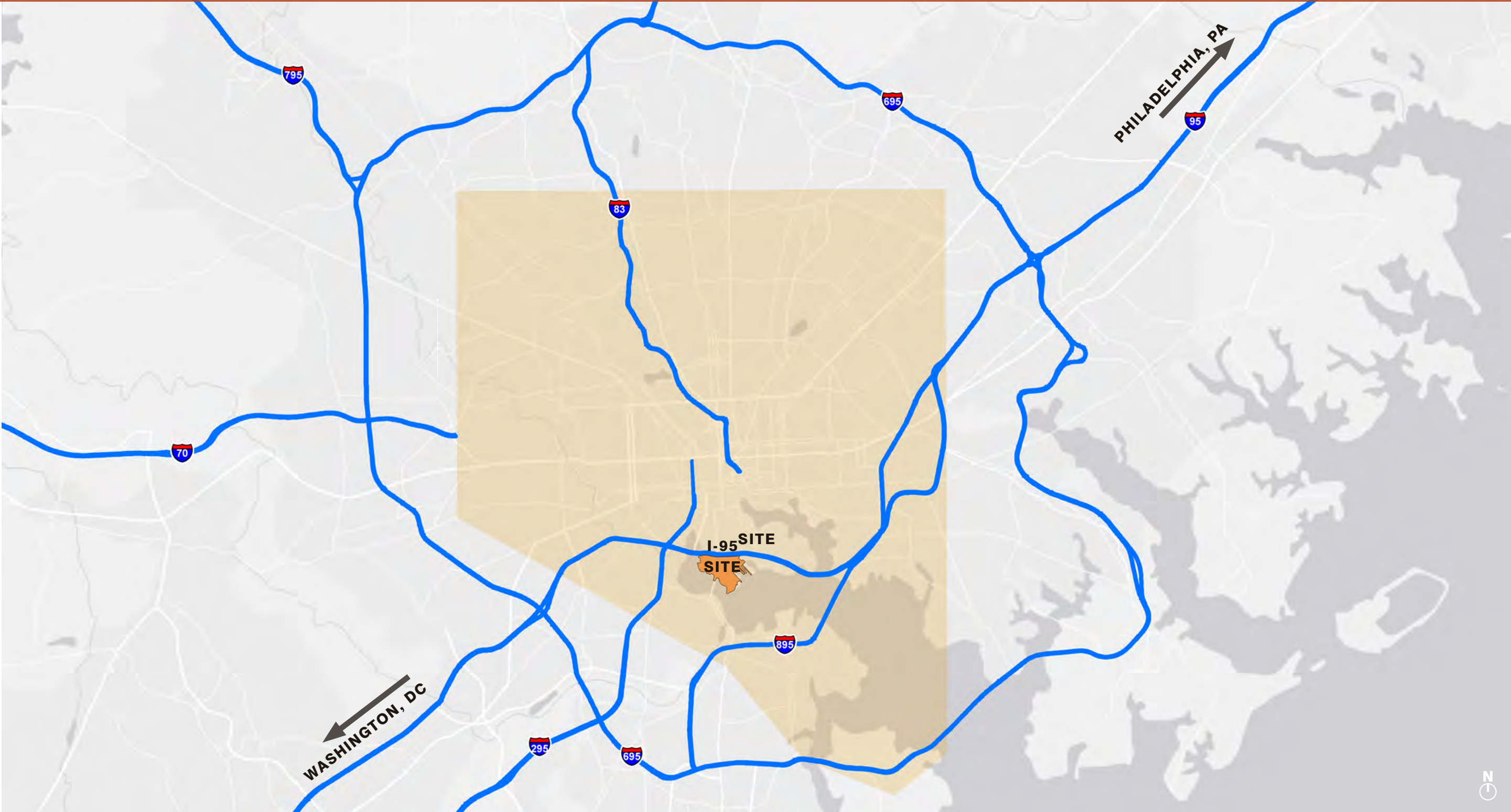
## Existing Conditions

ADDISON PALMER, RLA, LEED AP

STV Incorporated  
Regional Manager



# REGIONAL CONTEXT MAP



# EXISTING CONDITIONS



# ENVIRONMENTAL CONSTRAINTS



**LEGEND**

- I-95 Multi-Lane Highway
- CSX Railroad Tracks
- Hanover Street Commuter Route
- 1000-Foot Chesapeake Bay Critical Area
- 100-Foot Chesapeake Bay Critical Area Buffer
- 100-Year Floodplain
- Habitat Protection Area

# EXISTING SITE CONDITIONS



0 60 120 240 SCALE: 1" = 120'-0"

TODAY



## EXISTING CONDITIONS - AERIAL VIEWS





Port  
Covington

# **EAST WATERFRONT PARK** Ecological Context

CHRIS STREB PE, LEED AP

Biohabitats Inc.  
Ecological Engineer

# PORT COVINGTON ECOLOGICAL PRINCIPLES

## LOCALLY ATTUNED

- An inspiring, innovative & ecologically sustainable community shaped by the natural landscape and cultural context of the Chesapeake Bay.

## HIGH PERFORMANCE LANDSCAPE

- Ecologically adaptive, resilient and high performance urban community.

## CELEBRATING WATER

- Holds water as a precious resource to be conserved, restored and celebrated.

## COMMUNITY CATALYST

- Serves as a catalyst for community actions that promote ecological rejuvenation, health, and stewardship throughout the Middle Branch and Gwynns Falls watershed.

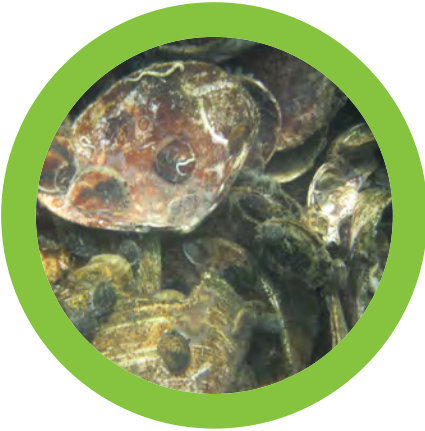
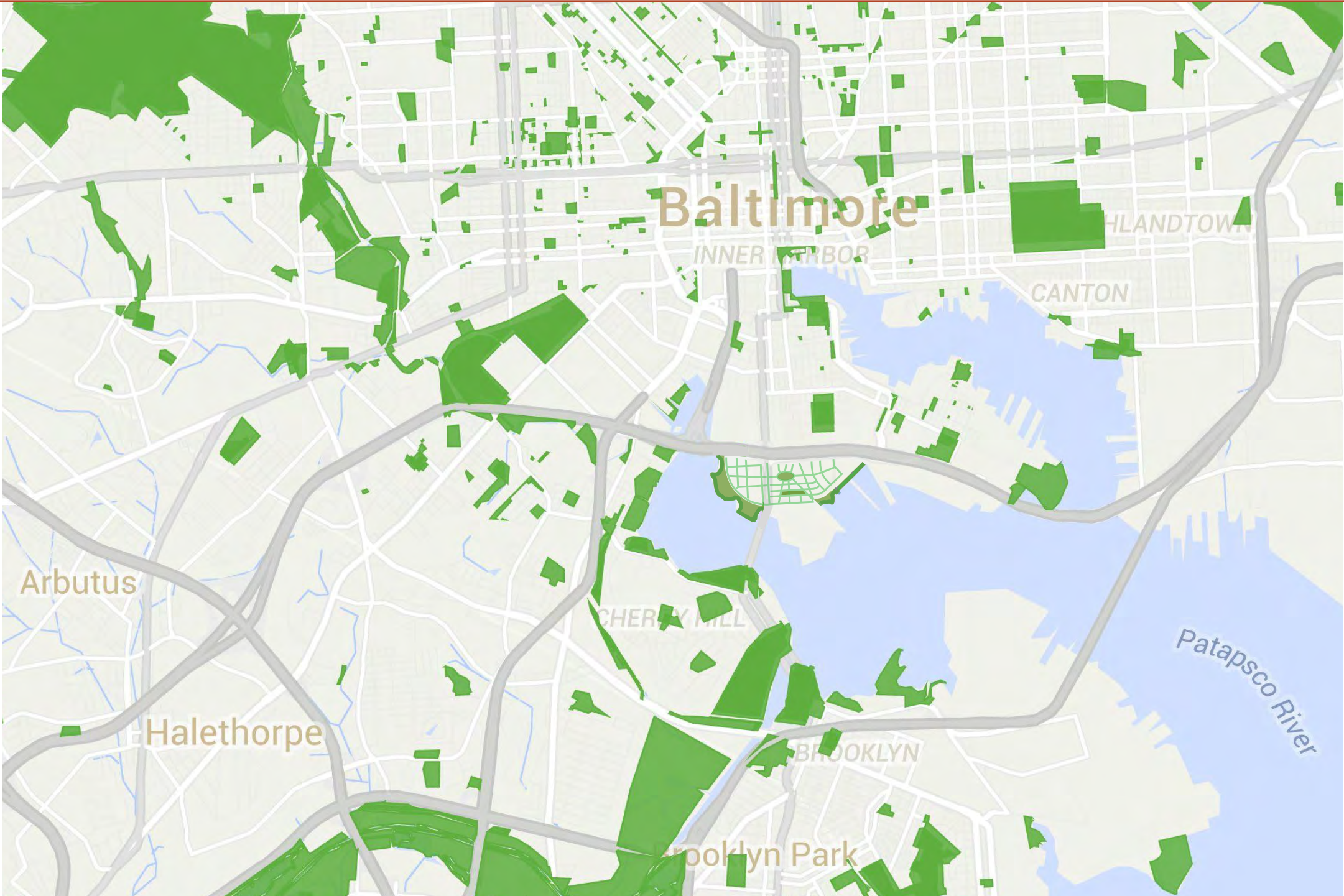
## AUTHENTICITY

- Honest portrayal of the cultural, historical and ecological characteristics intrinsic to the site.

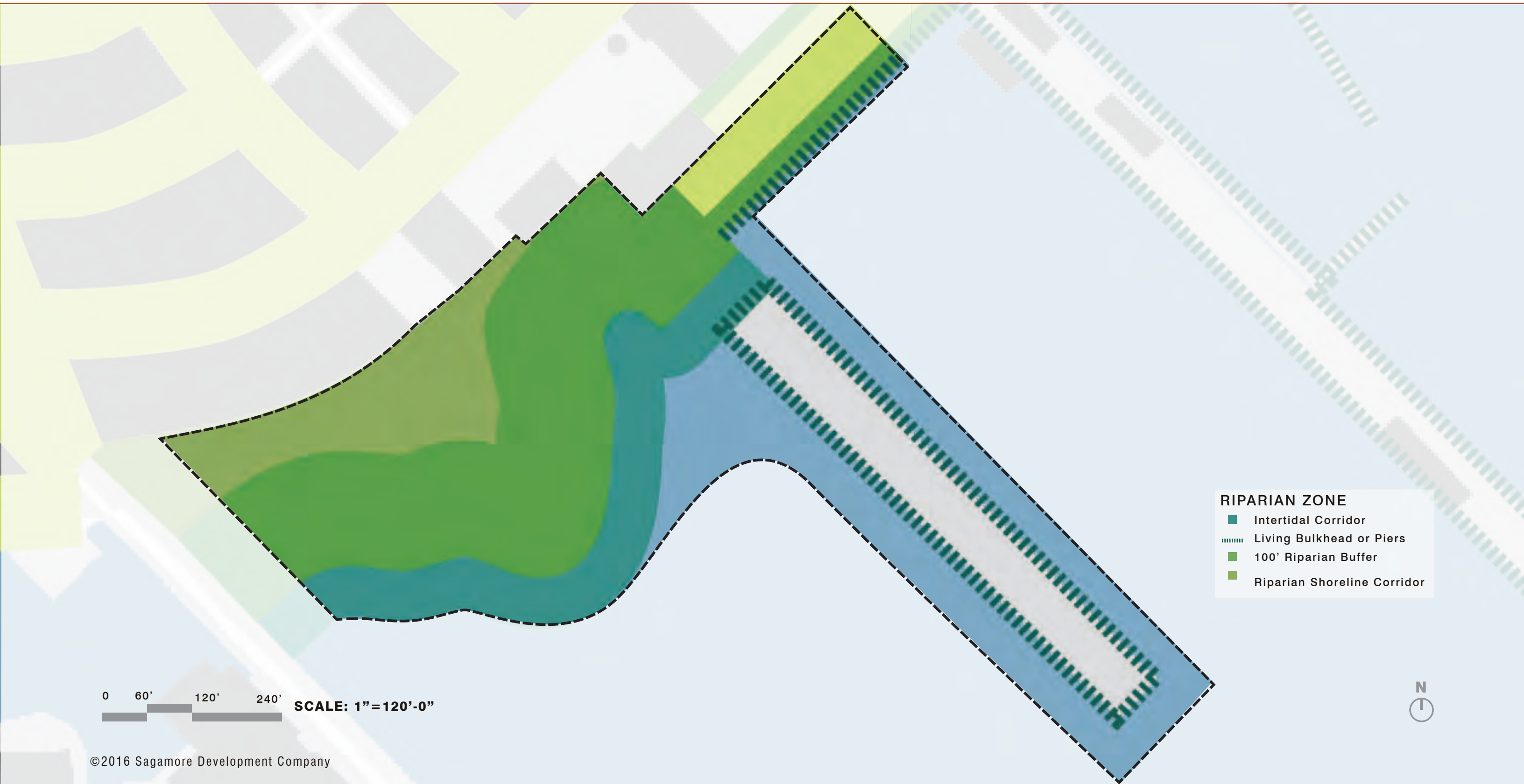




# GREATER BALTIMORE URBAN WILDERNESS



# EAST WATERFRONT PARK ECOZONES







**RIPARIAN ZONE**

- Intertidal Corridor
- Living Bulkhead or Piers
- 100' Riparian Buffer
- Riparian Shoreline Corridor

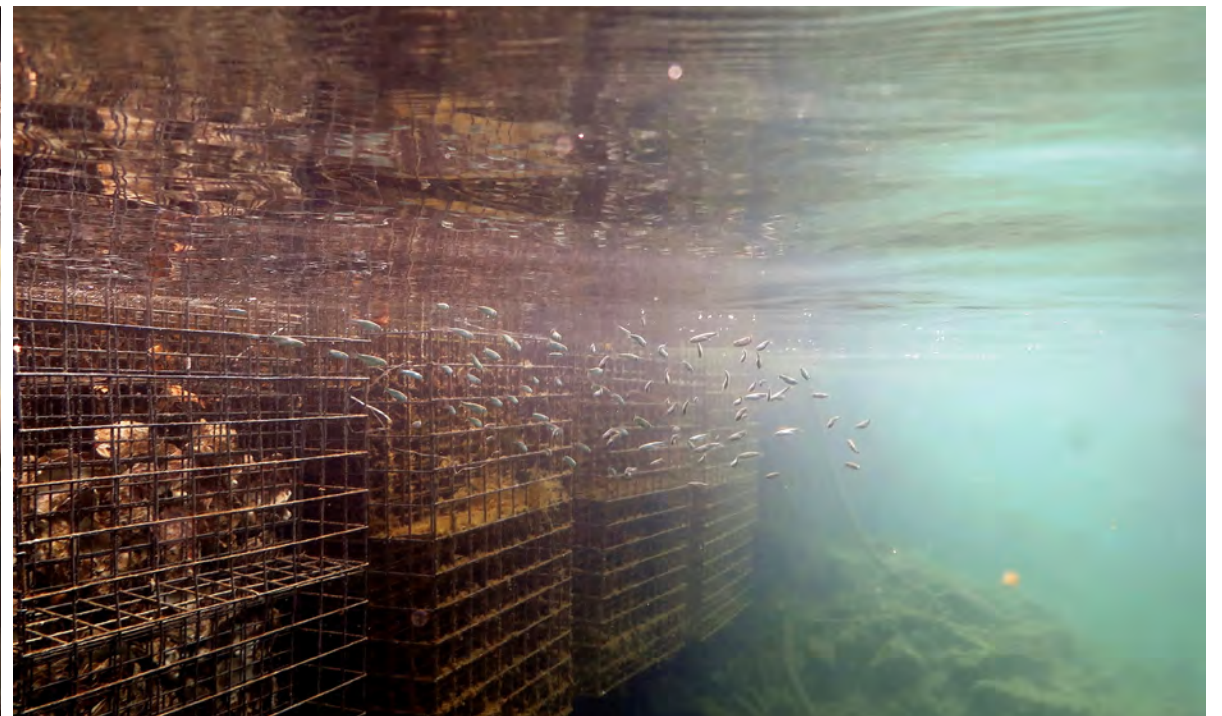
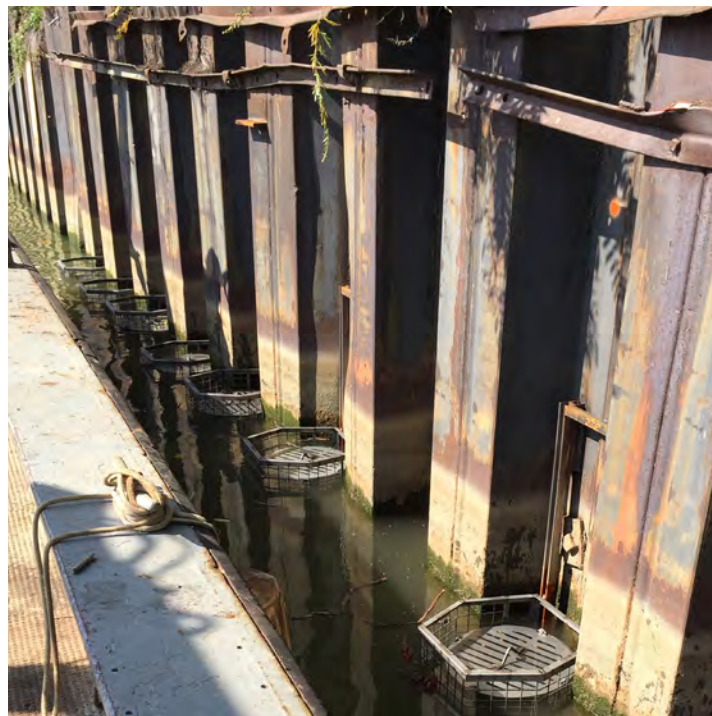
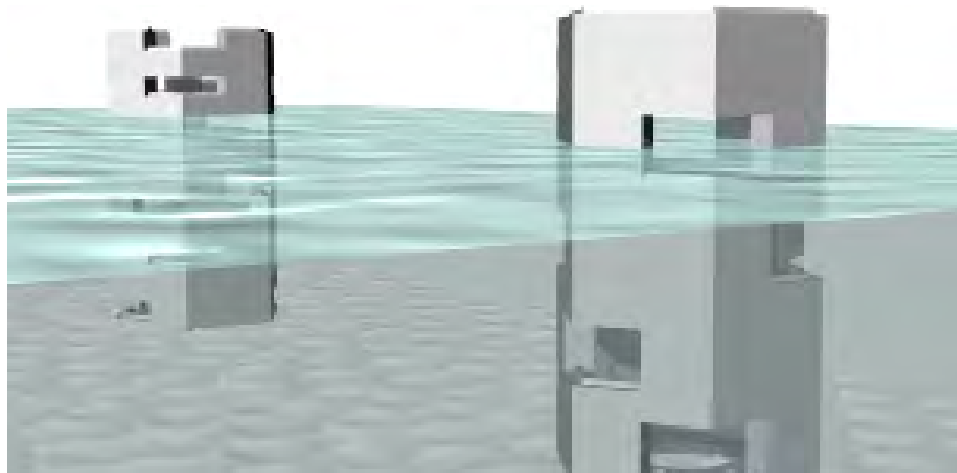
0 60' 120' 240' **SCALE: 1" = 120'-0"**



# ECOSYSTEM SERVICES - EAST PENINSULA PARK

	LANDSCAPE POSITION	METRICS
<b>PROVISIONING</b> 	COLLECT, STORE & MANAGE WATER	UPLAND / SHORELINE (Native plantings and BMPs)
	FOOD/ URBAN AG	UPLAND (Planter boxes, green roofs)
	POLLINATION	UPLAND / SHORELINE (Living Shoreline and native plantings)
<b>SUPPORTING</b> 	CYCLE NUTRIENTS/ WASTE	UPLAND (Compost)
	HABITAT	UPLAND / SHORELINE (Living shoreline/gardens)
	BUILD SOILS	UPLAND (Native planting zones/BMPs)
	INCREASE BIODIVERSITY	UPLAND / SHORELINE (Living shoreline /gardens)
<b>REGULATING</b> 	CONTROL FLOODING	SHORELINE (Living shoreline)
	EVAPOTRANSPIRATION	UPLAND / SHORELINE (Native plantings and BMPs)
	PROTECT SHORELINE (CRITICAL AREA BUFFER)	SHORELINE / UPLAND (Native plantings)
	DARK SKY COMPLIANCE	UPLAND / SHORELINE / BUILDINGS (Low intensity and timed lighting)
	URBAN HEAT ISLAND	UPLAND (increased tree canopy and native plantings)
	CARBON SEQUESTRATION	UPLAND / SHORELINE (increased tree canopy and native plantings)
	FILTER AIR AND WATER (SWM)	UPLAND / SHORELINE (BMPs)
	CONTROL PESTS/ INVASIVE SPECIES	UPLAND / SHORELINE (through habitat creation)
<b>CULTURAL</b> 	EDUCATION	UPLAND / SHORELINE (Signage, research, & outdoor classrooms)
	RESPITE	UPLAND / SHORELINE (Seating and trails)
	AESTHETICS	UPLAND / SHORELINE (Native plantings, tree canopy)
	RECREATION	UPLAND / SHORELINE (trails connections)
	JOBS	UPLAND / SHORELINE / BUILDINGS (open space maintenance)

# INNOVATION PLATFORM





Port  
Covington

**EAST WATERFRONT PARK**  
Landscape

**MICHAEL BLIER**  
Landworks Studio Inc.  
Principal

# EXISTING CONDITIONS



# JANUARY 28, 2016 – SITE PLAN



0 60' 120' 240' **SCALE: 1" = 120'-0"**



# SITE PLAN

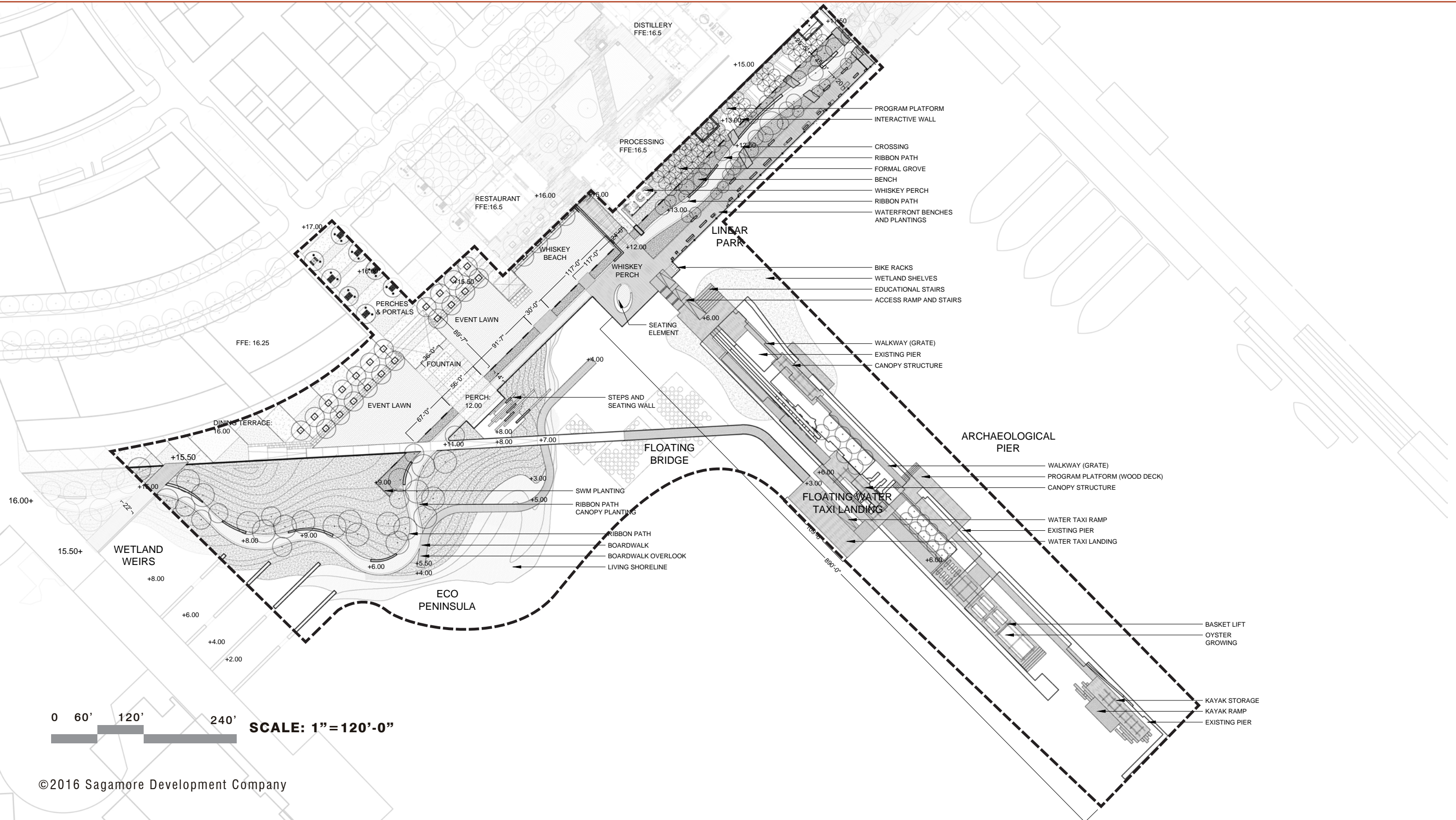




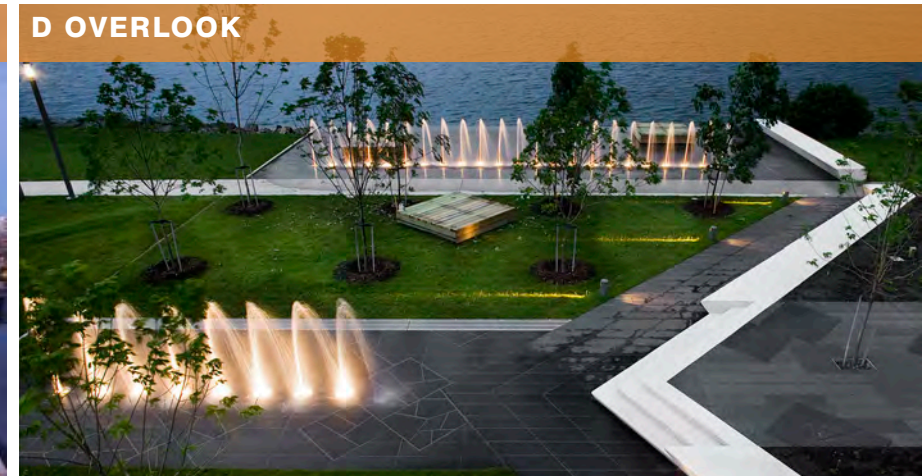
# SITE PLAN – TREES HIDDEN



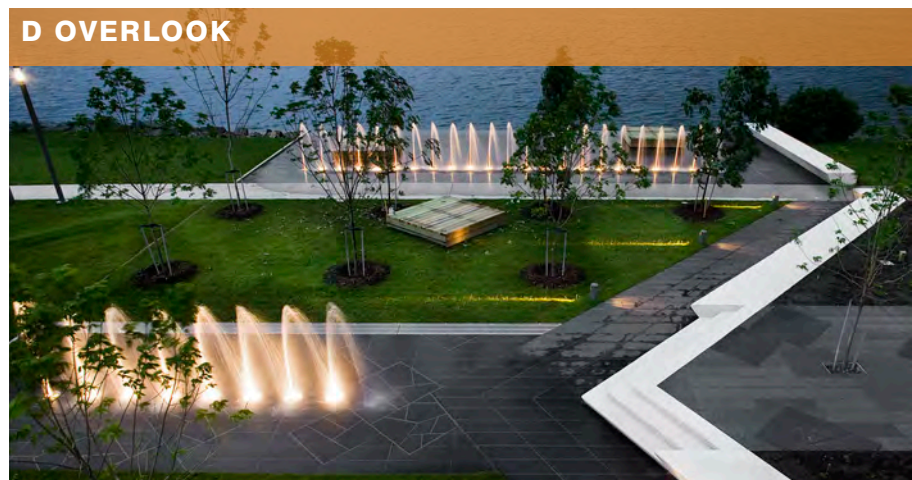
# SITE PLAN



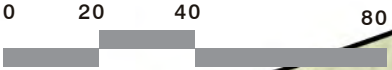
# JANUARY 28, 2016 – PERCHES & PORTALS SITE PLAN & PROGRAM



# PERCHES & PORTALS SITE PLAN & PROGRAM



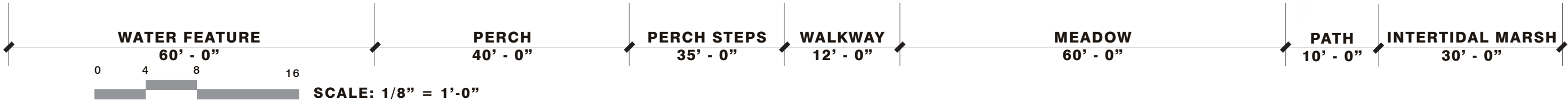
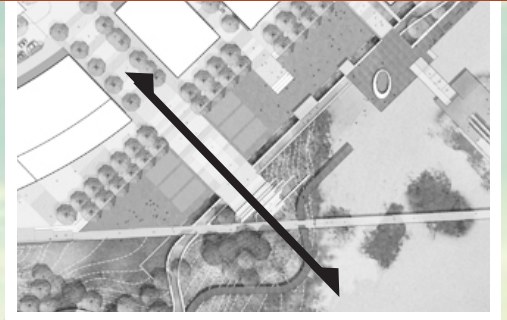
# URBAN PERCH PLAN



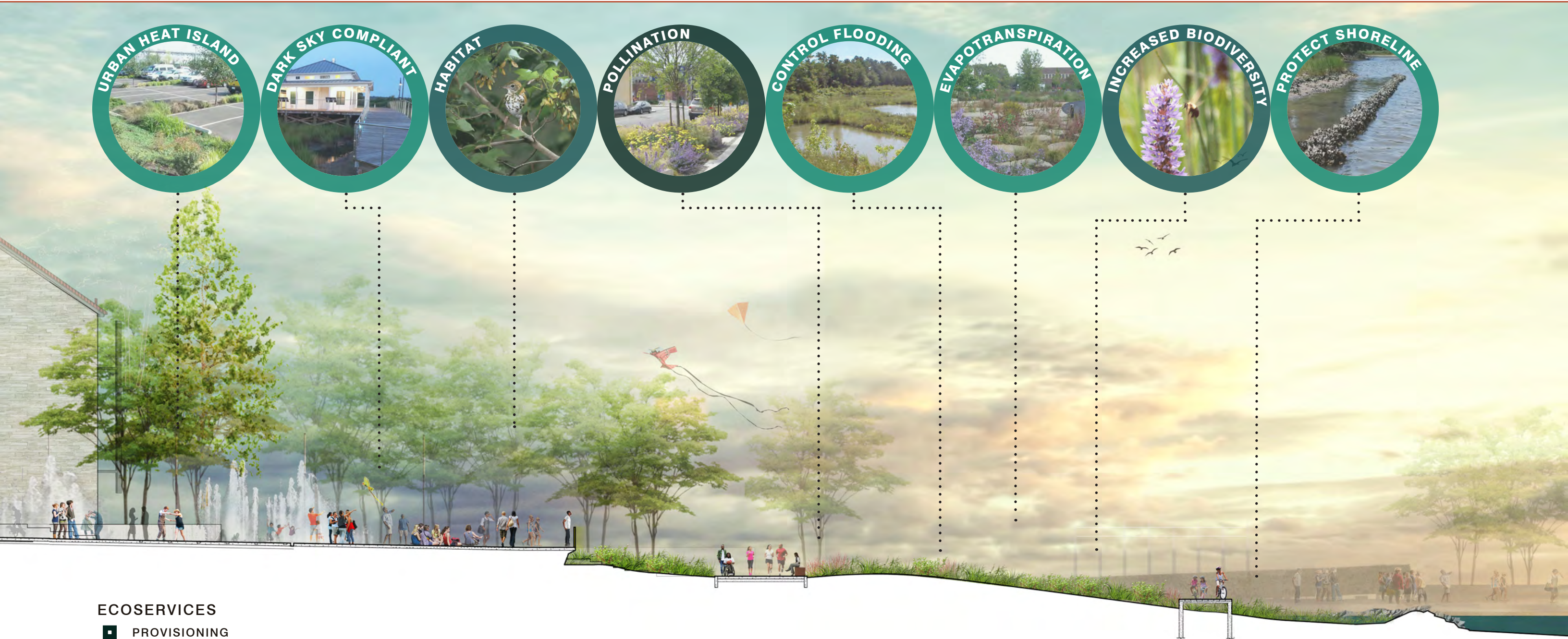
SCALE: 1" = 40'-0"



# URBAN PERCH SECTION



# ECOSYSTEM SERVICES – URBAN PERCH



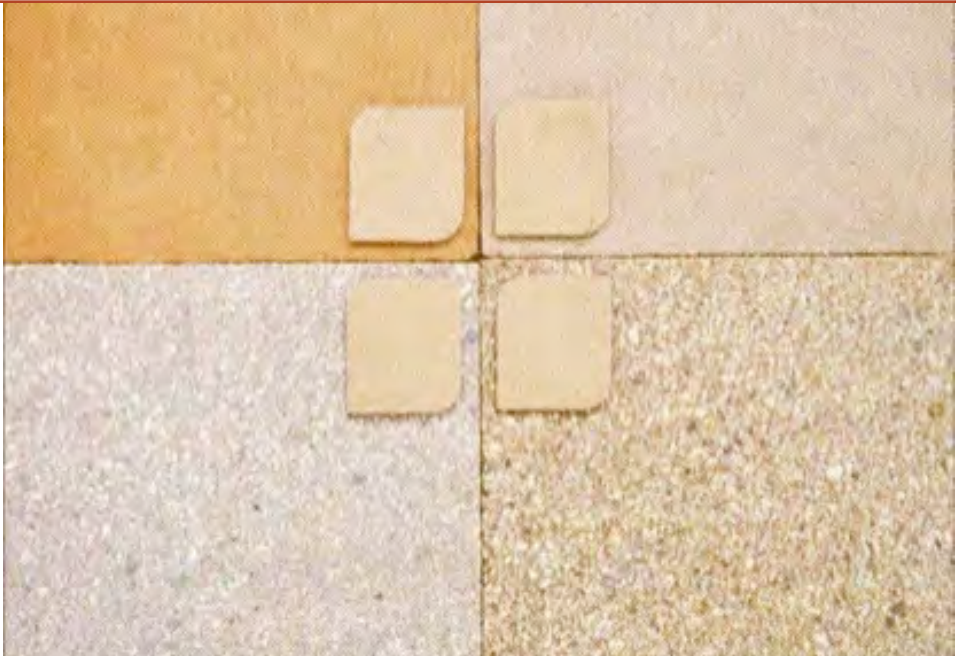
- ECOSERVICES**
- PROVISIONING
  - SUPPORTING
  - REGULATING

# PERCHES & PORTALS PERSPECTIVE





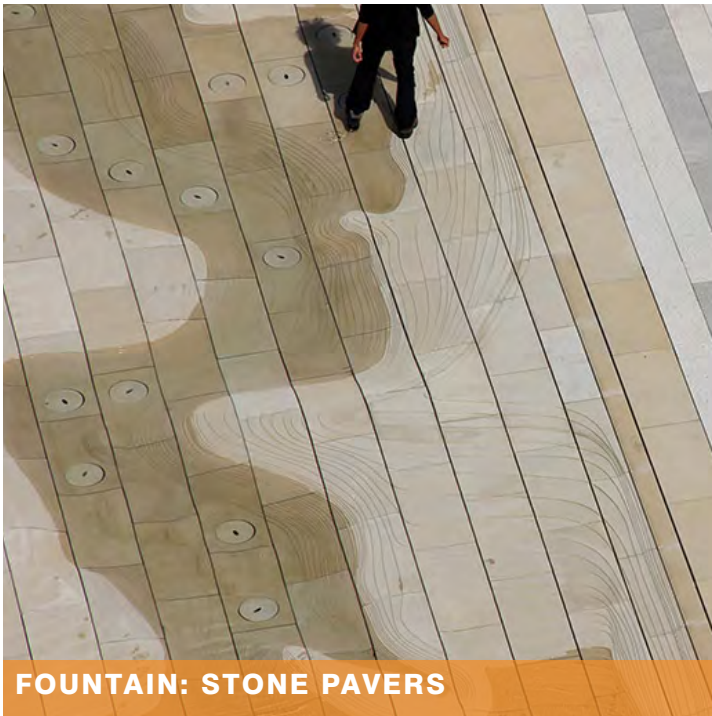
# PERCHES & PORTALS MATERIALS



DINING TERRACE: COLORED CONCRETE WITH EXPOSED AGGREGATE



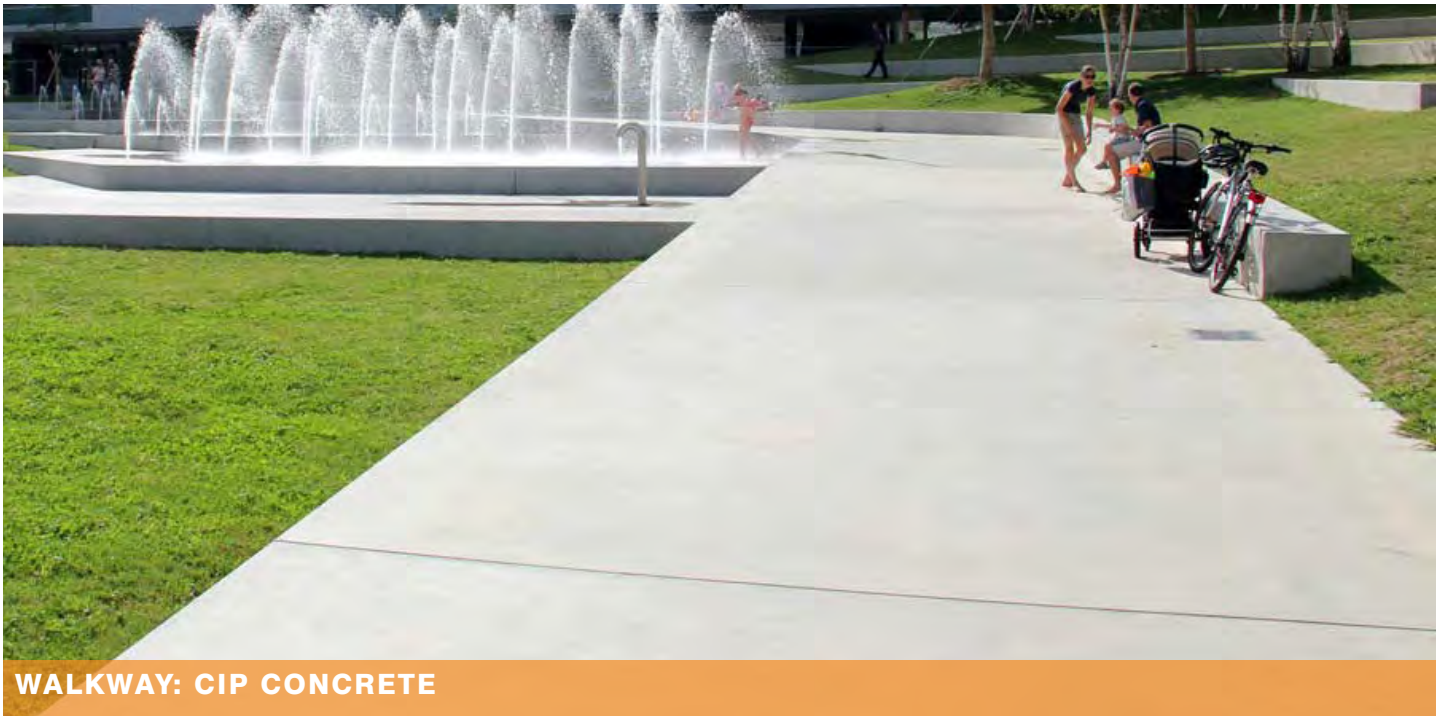
PERCHES: COLORED CONCRETE SANDBLAST FINISH, STEEL INLAYS



FOUNTAIN: STONE PAVERS



STAIRS: LIMESTONE BLOCK



WALKWAY: CIP CONCRETE

# JANUARY 28, 2016 – ECO PENINSULA SITE PLAN & PROGRAM



**A WATERFRONT WALK**



**B LIVING SHORELINE**



**C BOARDWALK**



**D BRIDGE CONNECTION**



# ECO PENINSULA SITE PLAN & PROGRAM



A WATERFRONT WALK



B LIVING SHORELINE



C BOARDWALK



D BRIDGE CONNECTION



# LIVING SHORELINE AND RIBBON PATH PLAN



# LIVING SHORELINE AND RIBBON PATH SECTION



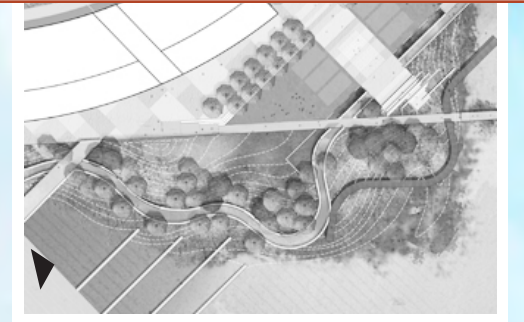
0 4 8 16  
SCALE: 1/8" = 1'-0"

# ECOSYSTEM SERVICES – ECO-PENINSULA



- ECOSERVICES**
- PROVISIONING
  - SUPPORTING
  - REGULATING

# LIVING SHORELINE AND RIBBON PATH PERSEPECTIVE



# ECO PENINSULA MATERIALS



**RIBBON PATH: CONCRETE EDGE, ASPHALT**



**BOARDWALK: IPE WOOD DECK**



**STAIRS: LIMESTONE AND WOOD BENCHES**



**STAIRS: LIMESTONE AND WOOD BENCHES**



**STAIRS: IPE WOOD DECK**



# JANUARY 28, 2016 – ARCHAEOLOGICAL PIER SITE PLAN & PROGRAM



**A CONSTRUCTED WETLAND**



**B WATER TAXI LANDING**



**C OYSTER INFRASTRUCTURE**



**D KAYAK LANDING**



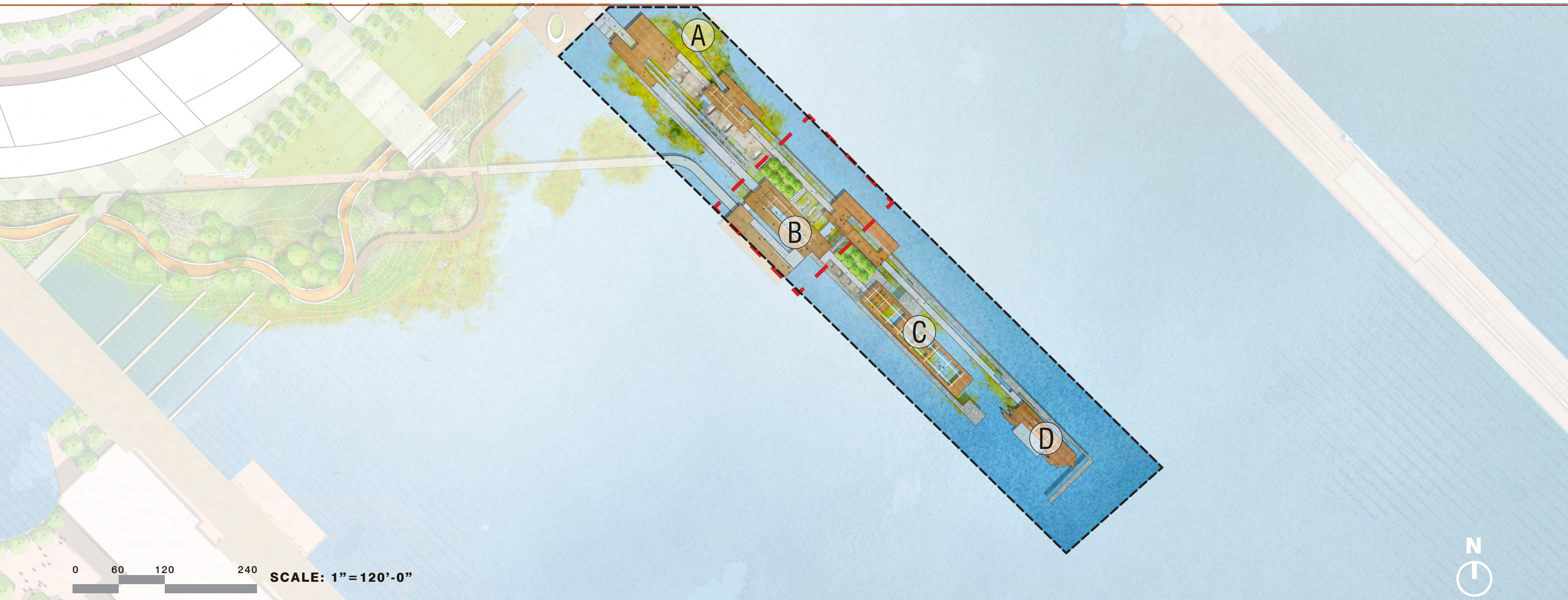
# EXISTING PIER



0 60 120 240 **SCALE: 1" = 120'-0"**



# ARCHAEOLOGICAL PIER SITE PLAN & PROGRAM



**A CONSTRUCTED WETLAND**



**B WATER TAXI LANDING**



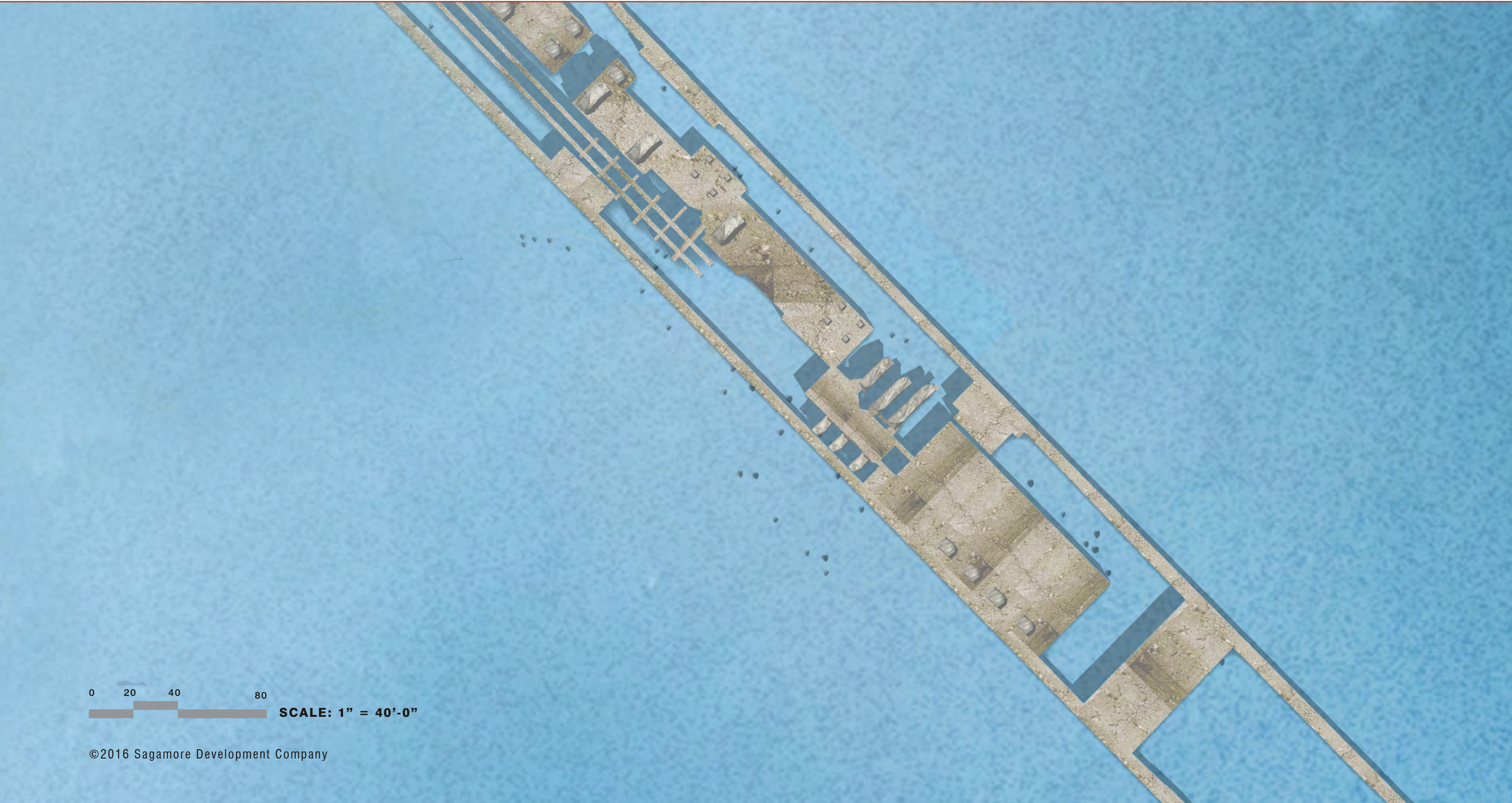
**C OYSTER INFRASTRUCTURE**



**D KAYAK LANDING**

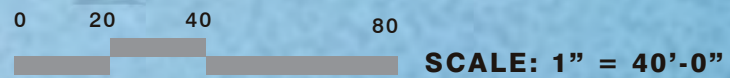
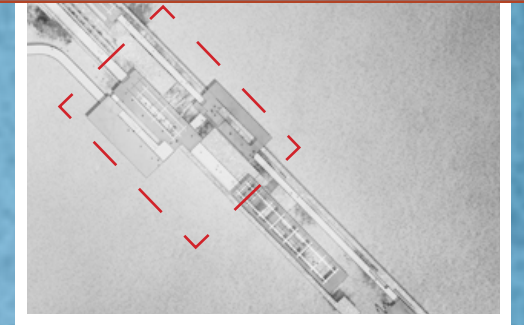


# ENLARGED EXISTING PIER

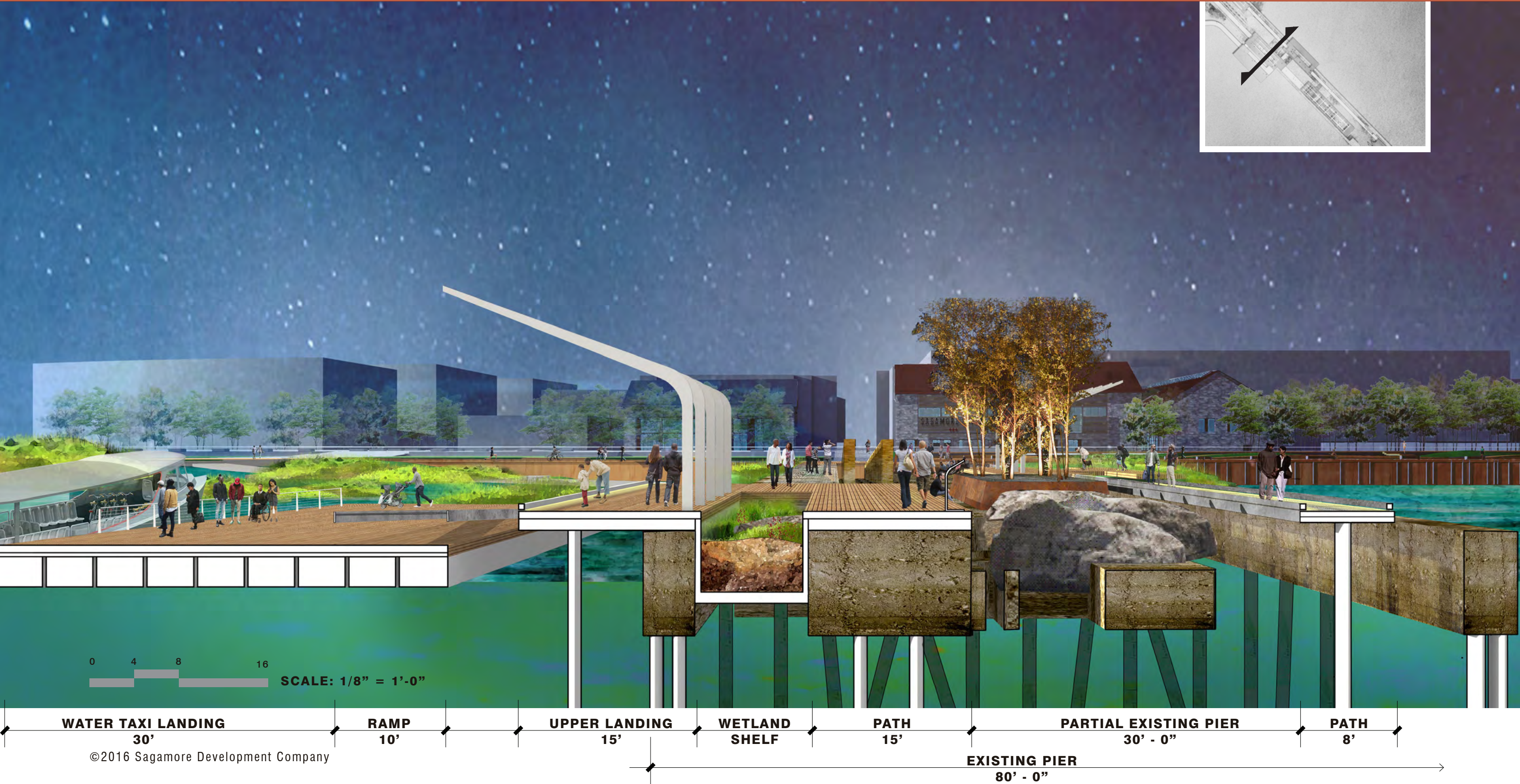
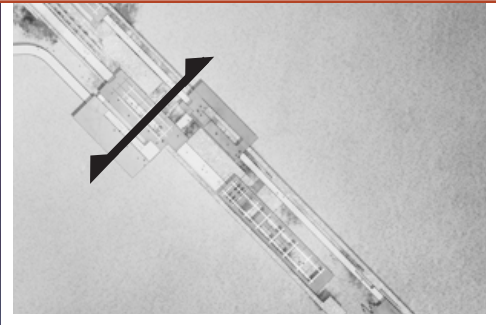


0 20 40 80  
SCALE: 1" = 40'-0"

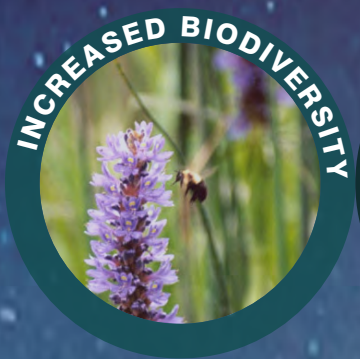
# ARCHAEOLOGICAL PIER PLAN



# ARCHAEOLOGICAL PIER SECTION



# ECOSYSTEM SERVICES - ARCHAEOLOGICAL PIER



- ECOSERVICES
- PROVISIONING
  - SUPPORTING
  - REGULATING

# ARCHAEOLOGICAL PIER PERSPECTIVE

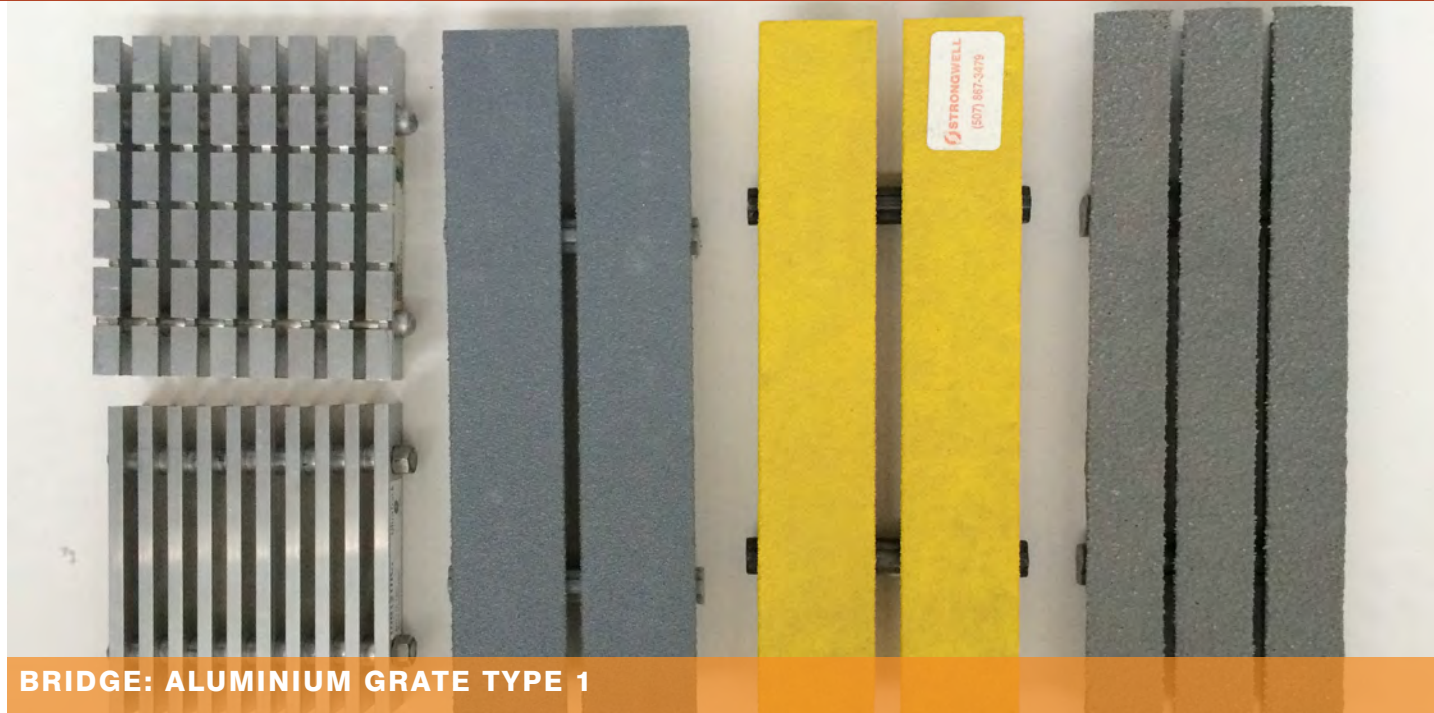




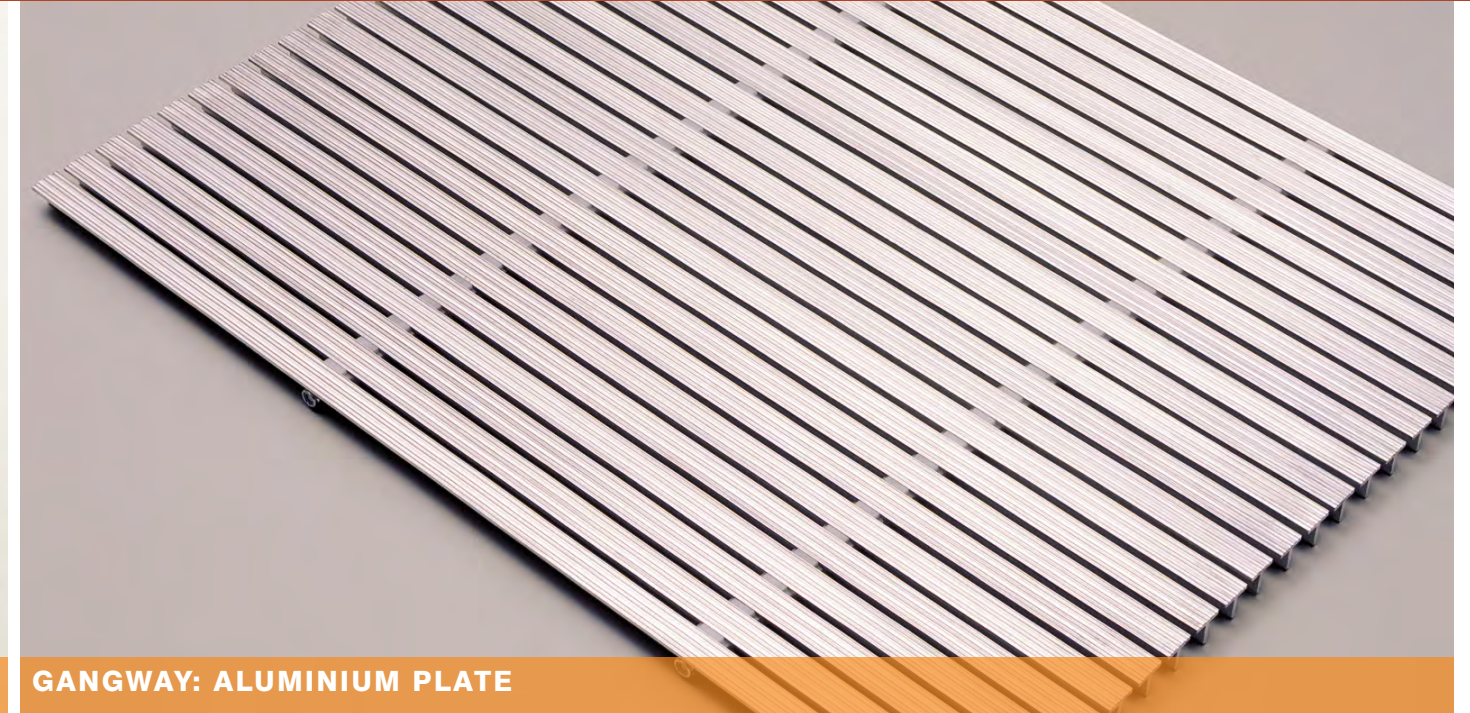
# ARCHAEOLOGICAL PIER PERSPECTIVE



# PIER MATERIALS



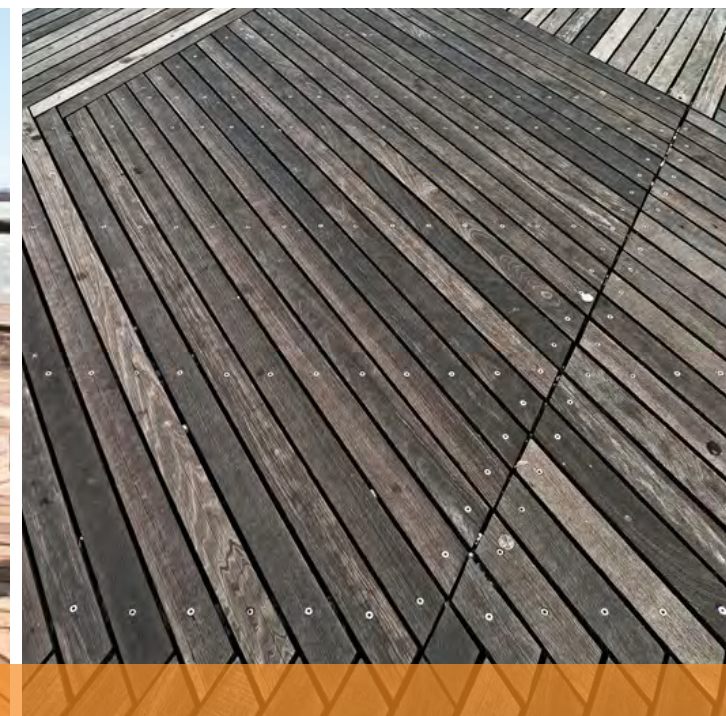
BRIDGE: ALUMINIUM GRATE TYPE 1



GANGWAY: ALUMINIUM PLATE



PLATFORMS: IPE WOOD DECK

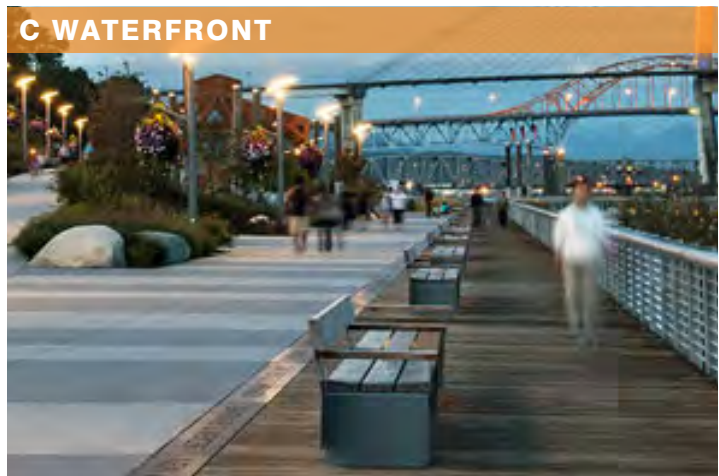


KAYAK LANDING: POLYGRATE

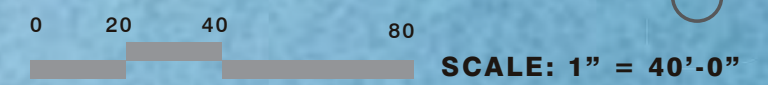
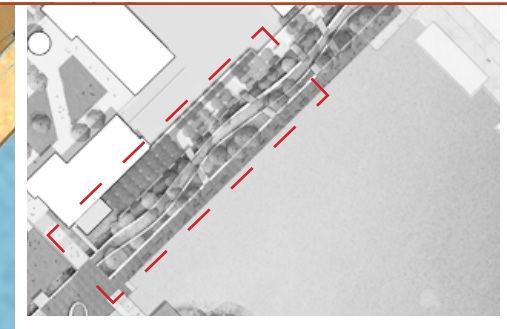
# JANUARY 18, 2016 – LINEAR PARK SITE PLAN & PROGRAM



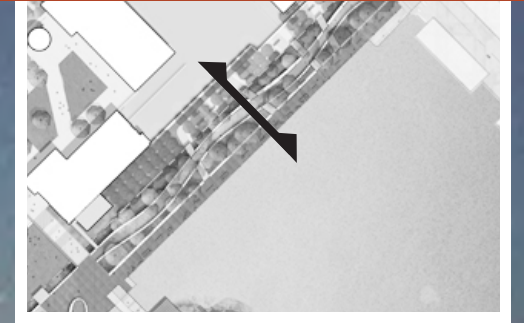
# LINEAR PARK SITE PLAN & PROGRAM



# LINEAR PARK



# LINEAR PARK SECTION



0 4 8 16  
SCALE: 1/8" = 1'-0"



# ECOSYSTEM SERVICES - LINEAR PARK



HABITAT

URBAN HEAT ISLAND

CONTROL FLOODING

COLLECT, STORE & MANAGE WATER

POLLINATION

DARK SKY COMPLIANT

PROTECT SHORELINE

INCREASED BIODIVERSITY

## ECOSERVICES

- PROVISIONING
- SUPPORTING
- REGULATING

# LINEAR PARK PERSPECTIVE





# LINEAR PARK MATERIALS



RIBBON PATH: CONCRETE EDGE, ASPHALT



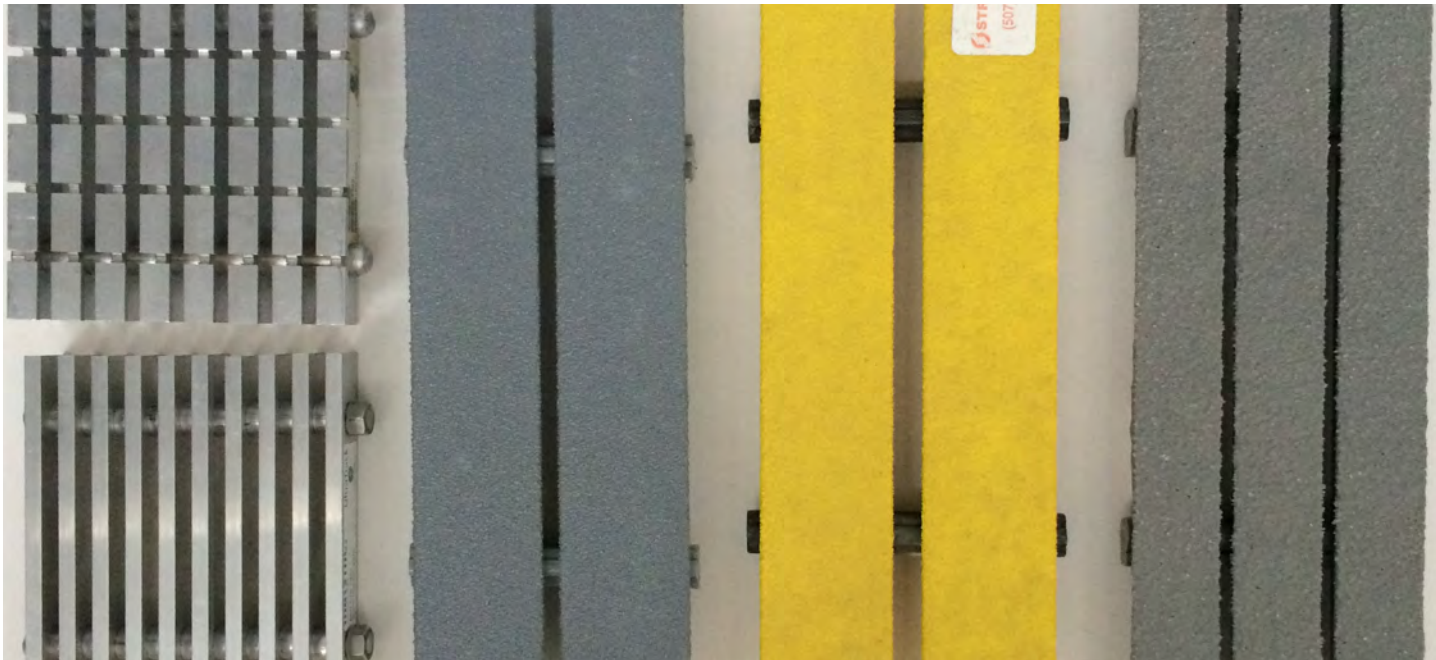
WATERFRONT WALKWAY: WOOD DECK TYPE 1



PLATFORM: WOOD DECK TYPE 2



PLATFORM: WOOD DECK TYPE 2

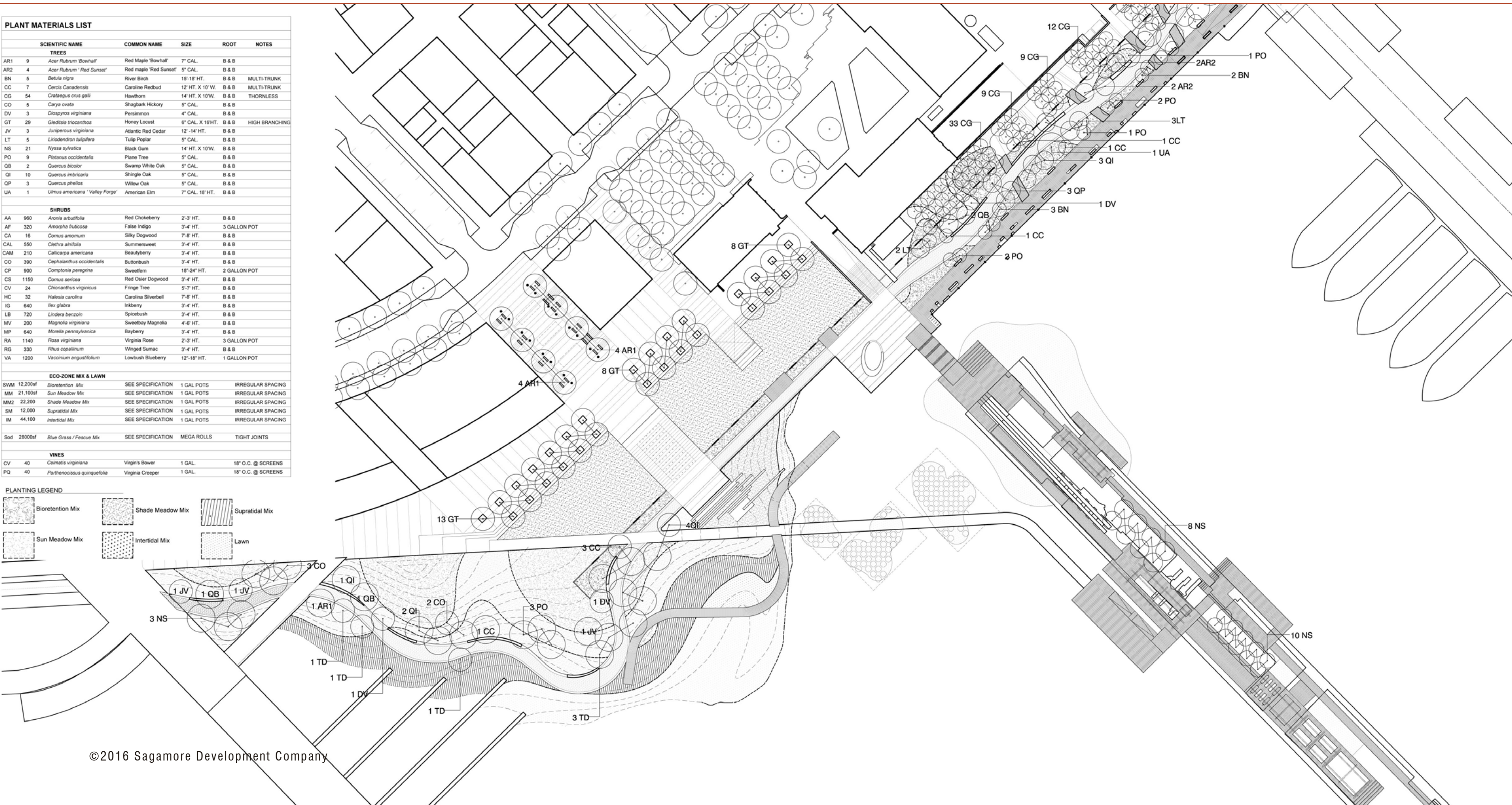


PATH: ALUMINIUM GRATE

# PLANTING PLAN

PLANT MATERIALS LIST				
SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT	NOTES
<b>TREES</b>				
AR1 9	<i>Acer Rubrum</i> 'Bowhall'	Red Maple 'Bowhall'	7" CAL.	B & B
AR2 4	<i>Acer Rubrum</i> 'Red Sunset'	Red maple 'Red Sunset'	5" CAL.	B & B
BN 5	<i>Betula nigra</i>	River Birch	15'-18" HT.	B & B MULTI-TRUNK
CC 7	<i>Cercis Canadensis</i>	Caroline Redbud	12" HT. X 10" W.	B & B MULTI-TRUNK
CG 54	<i>Crataegus orus galli</i>	Hawthorn	14" HT. X 10" W.	B & B THORNLESS
CO 5	<i>Carya ovata</i>	Shagbark Hickory	5" CAL.	B & B
DV 3	<i>Diospyros virginiana</i>	Persimmon	4" CAL.	B & B
GT 29	<i>Gleditsia triacanthos</i>	Honey Locust	6" CAL. X 16" HT.	B & B HIGH BRANCHING
JV 3	<i>Juniperus virginiana</i>	Atlantic Red Cedar	12"-14" HT.	B & B
LT 5	<i>Liriodendron tulipifera</i>	Tulip Poplar	5" CAL.	B & B
NS 21	<i>Nyssa sylvatica</i>	Black Gum	14" HT. X 10" W.	B & B
PO 9	<i>Platanus occidentalis</i>	Plane Tree	5" CAL.	B & B
QB 2	<i>Quercus bicolor</i>	Swamp White Oak	5" CAL.	B & B
QI 10	<i>Quercus imbricaria</i>	Shingle Oak	5" CAL.	B & B
QP 3	<i>Quercus phellos</i>	Willow Oak	5" CAL.	B & B
UA 1	<i>Ulmus americana</i> 'Valley Forge'	American Elm	7" CAL. 18" HT.	B & B
<b>SHRUBS</b>				
AA 960	<i>Aronia arbutifolia</i>	Red Chokeberry	2'-3" HT.	B & B
AF 320	<i>Amorpha fruticosa</i>	False Indigo	3'-4" HT.	3 GALLON POT
CA 16	<i>Cornus amomum</i>	Silky Dogwood	7'-8" HT.	B & B
CAL 550	<i>Clethra alnifolia</i>	Summersweet	3'-4" HT.	B & B
CAM 210	<i>Callicarpa americana</i>	Beautyberry	3'-4" HT.	B & B
CO 390	<i>Cephalanthus occidentalis</i>	Butterbush	3'-4" HT.	B & B
CP 900	<i>Comptonia peregrina</i>	Sweetfern	18"-24" HT.	2 GALLON POT
CS 1150	<i>Cornus sericea</i>	Red Osier Dogwood	3'-4" HT.	B & B
CV 24	<i>Chionanthus virginicus</i>	Fringe Tree	5'-7" HT.	B & B
HC 32	<i>Halesia carolina</i>	Carolina Silverbell	7'-8" HT.	B & B
IG 640	<i>Ilex glabra</i>	Inkberry	3'-4" HT.	B & B
LB 720	<i>Lindera benzoin</i>	Spicebush	3'-4" HT.	B & B
MV 200	<i>Magnolia virginiana</i>	Sweetbay Magnolia	4'-6" HT.	B & B
MP 640	<i>Morella pennsylvanica</i>	Bayberry	3'-4" HT.	B & B
RA 1140	<i>Rosa virginiana</i>	Virginia Rose	2'-3" HT.	3 GALLON POT
RG 330	<i>Rhus copallinum</i>	Winged Sumac	3'-4" HT.	B & B
VA 1200	<i>Vaccinium angustifolium</i>	Lowbush Blueberry	12"-18" HT.	1 GALLON POT
<b>ECO-ZONE MIX &amp; LAWN</b>				
SWM 12,200sf	Bioretention Mix	SEE SPECIFICATION	1 GAL POTS	IRREGULAR SPACING
MM 21,100sf	Sun Meadow Mix	SEE SPECIFICATION	1 GAL POTS	IRREGULAR SPACING
MM2 22,200	Shade Meadow Mix	SEE SPECIFICATION	1 GAL POTS	IRREGULAR SPACING
SM 12,000	Supratidal Mix	SEE SPECIFICATION	1 GAL POTS	IRREGULAR SPACING
IM 44,100	Intertidal Mix	SEE SPECIFICATION	1 GAL POTS	IRREGULAR SPACING
Sod 28000sf	Blue Grass / Fescue Mix	SEE SPECIFICATION	MEGA ROLLS	TIGHT JOINTS
<b>VINES</b>				
CV 40	<i>Celastrus virginiana</i>	Virgin's Bower	1 GAL.	18" O.C. @ SCREENS
PQ 40	<i>Parthenocissus quinquefolia</i>	Virginia Creeper	1 GAL.	18" O.C. @ SCREENS

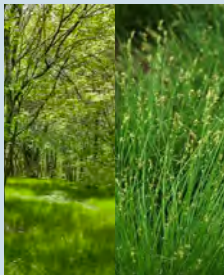
PLANTING LEGEND		



# UNDERSTORY PLANTING PLAN



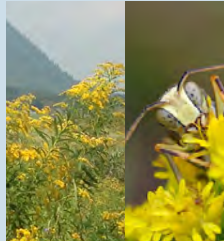
**WINGED SUMAC**  
 RHUS COPALLINUM  
 Height 7-15'  
 Spread 10-20'  
 Form Woody Shrub  
 Native Yes



**APPALACHIAN SEDGE**  
 CAREX APPALACIA  
 Height .5'  
 Spread 1'  
 Form Grass-like  
 Native Yes



**LITTLE BLUESTEM**  
 SCHIZACHYRIUM SCOPARIUM  
 Height 2-4'  
 Spread 1.5-2'  
 Form Grass  
 Native Yes



**LATE GOLDENROD**  
 SOLIDAGO CANADENSIS  
 Height 4-5'  
 Spread 4-5'  
 Form Perennial  
 Native Yes



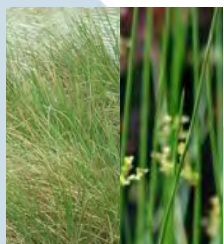
**LIZARD'S TAIL**  
 SOURUTUS CERNUUS  
 Height 1.5-4.5'  
 Spread 1-2'  
 Form Perennial  
 Native Yes



**THREE SQUARE BULRUSH**  
 SCIRPUS AMERICANUS  
 Height 2-4'  
 Spread 1-2'  
 Form Grass-like  
 Native Yes



**MARSH HIBISCUS**  
 HIBISCUS MOSCHEUTOS  
 Height 3-7'  
 Spread 2-4'  
 Form Perennial  
 Native Yes



**SOFT RUSH**  
 JUNCUS EFFUSUS  
 Height 1-2'  
 Spread 1'  
 Form Grass-like  
 Native Yes

**ECO ZONES UNDERSTORY**  
 ■ Intertidal Marsh  
 ■ Supratidal Wetland  
 ■ Shade Meadow  
 ■ Sunny Meadow  
 ■ Lawn

# CANOPY PLANTING PLAN

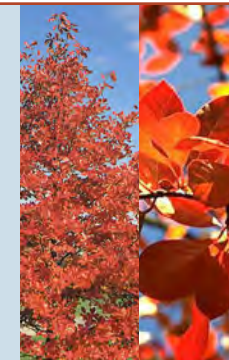


## ECO ZONES CANOPY

- Intertidal Marsh
- Supratidal Wetland
- Shade Meadow
- Sunny Meadow
- Lawn



**AMERICAN SYCAMORE**  
 PLATANUS OCCIDENTALIS  
 Height 75-100'  
 Spread 50-70'  
 Shape ▲  
 Root No Surface Roots  
 Flower N/A  
 Salt No  
 Pollution Yes



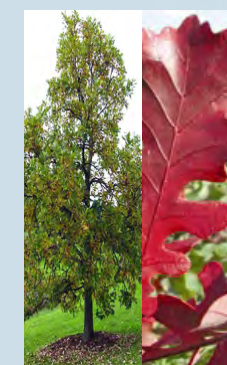
**BLACK GUM**  
 NYSSA SYLVATICA  
 Height 30-50'  
 Spread 20-30'  
 Shape ▲  
 Root No Surface Roots  
 Flower N/A  
 Salt No  
 Pollution No



**LOBLOLLY PINE**  
 PINUS TAEDA  
 Height 40-90'  
 Spread 20-40'  
 Shape ▲  
 Root No Surface Roots  
 Flower N/A  
 Salt No  
 Pollution Yes



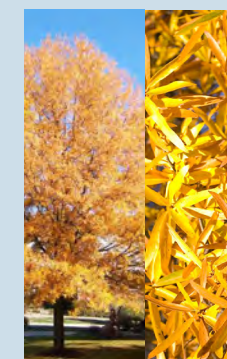
**SHINGLE OAK**  
 QUERCUS IMBRICARIA  
 Height 40-60'  
 Spread 40-60'  
 Shape ▲  
 Root No Surface Roots  
 Flower N/A  
 Salt Yes  
 Pollution Yes



**BUR OAK**  
 QUERCUS MACROCARPA  
 Height 60-90'  
 Spread 60-90'  
 Shape ▲  
 Root No Surface Roots  
 Flower N/A  
 Salt Yes  
 Pollution Yes



**EASTERN REDBUD**  
 CERCIS CANADENSIS  
 Height 15-30'  
 Spread 15-25'  
 Shape  
 Root No Surface Roots  
 Flower Purple  
 Salt Yes  
 Pollution Yes



**WILLOW OAK**  
 QUERCUS PHELLOS  
 Height 50-70'  
 Spread 40-60'  
 Shape ▲  
 Root No Surface Roots  
 Flower N/A  
 Salt Yes  
 Pollution Yes

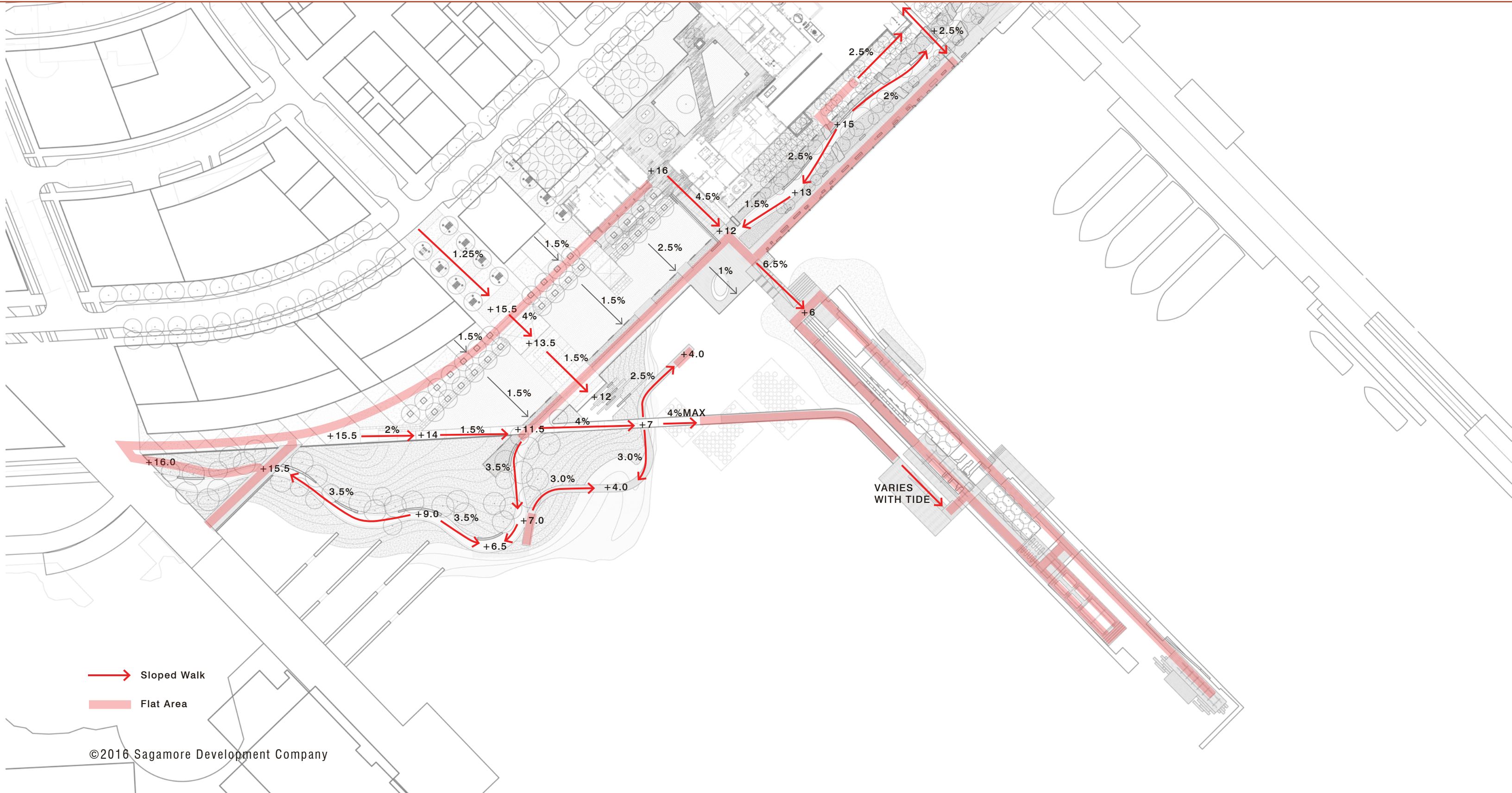


**BLACK LOCUST**  
 ROBINIA PSEUDOACACIA  
 Height 30-50'  
 Spread 20-35'  
 Shape ▼  
 Root No Surface Roots  
 Flower Tiny Yellow/Green  
 Salt Yes  
 Pollution Yes

# GRADING PLAN



# ADA ACCESSIBLE ROUTES



- Sloped Walk
- Flat Area

# SITE PLAN



0 60' 120' 240' SCALE: 1" = 120'-0"

# BIRDSEYE VIEW





## **NEXT STEPS**

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**Continued Final Design**

**Signage**

**Lighting**

**Next Great Baltimore Bench**

An architectural rendering of a waterfront park. The scene features a wooden walkway that leads from a grassy area in the foreground towards a body of water. On the left, there is a white, curved canopy structure supported by vertical posts. Several trees are planted along the walkway. People are shown walking and sitting on the wooden deck. In the background, a bridge spans across the water under a blue sky with birds. The overall atmosphere is bright and modern.

**WE ARE FROM THIS CITY.  
OF THIS CITY.**

**WE ARE GOING TO HELP CREATE  
SOMETHING GREAT IN THIS CITY.**

**— KEVIN PLANK**