







HANOVER STREET &

CAROLINE PAFF

Sagamore Development Vice President

PRIOR ACTIONS

January 7, 2016 Port Covington Masterplan:

Introduction Action: Continued

RELATED PROJECTS

June 25, 2015 301 East Cromwell Street - Sagamore Spirit Distillery:

Final Action: Recommend approval with comments

January 28, 2016 East Waterfront Park:

Schematic Action: Recommend approval with comments

January 28, 2016 Under Armour Masterplan:

Introduction Action: Recommend approval with comments

URBAN DESIGN GOALS

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 7, 2016 FRAMEWORK



JANUARY 7, 2016 PANEL COMMENTS

Balance public access and ecology to protect continuity of both.

Look at East-West connectivity using Cromwell and Hanover.

Strengthen each important axis with a receiver; use the parks to reinforce the focal points, vistas and connective elements.

Well-defined building types will create neighborhoods allowing for the spectrum of public to private experiences.

Break up some of the blocks on the edges of the plan.

Plan for transformation of spaces and uses.

Maintain visibility from the highway.

PRESENTATION OVERVIEW

EXISTING CONDITIONS - Addison Palmer, STV Incorporated

HANOVER STREET & WEST END DISTRICTS - David Manfredi, Elkus Manfredi Architects

ECOLOGICAL CONTEXT - Chris Streb, Biohabitats

CONCEPT LANDSCAPE PLAN - Michael Blier, Landworks Studio Inc.

MULTI-MODAL APPROACH - Barbara Mosier, STV Incorporated RJ Eldridge, Toole Design Group



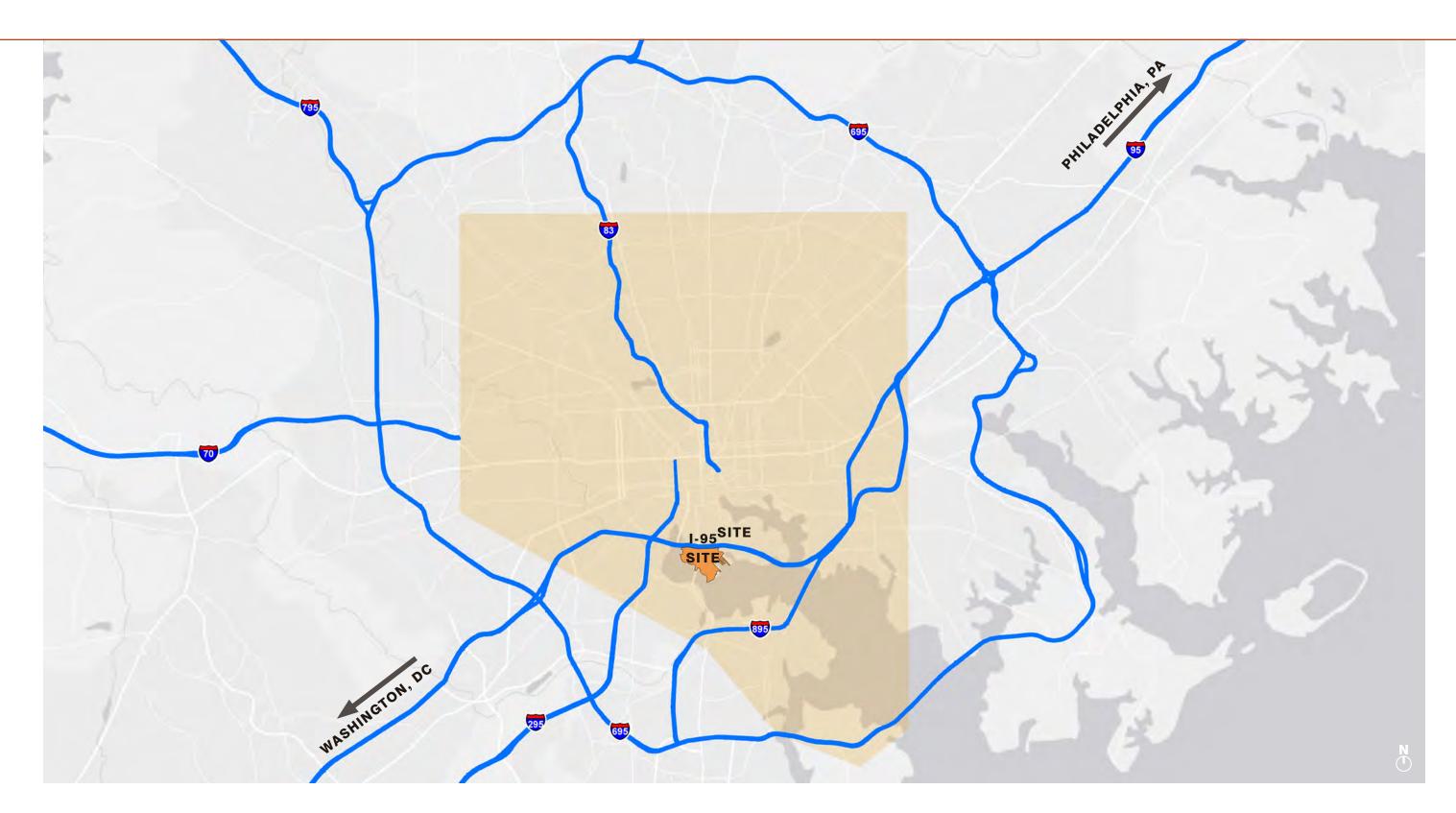


HANOVER STREET &

ADDISON PALMER, RLA, LEED AP

STV Incorporated Regional Manager

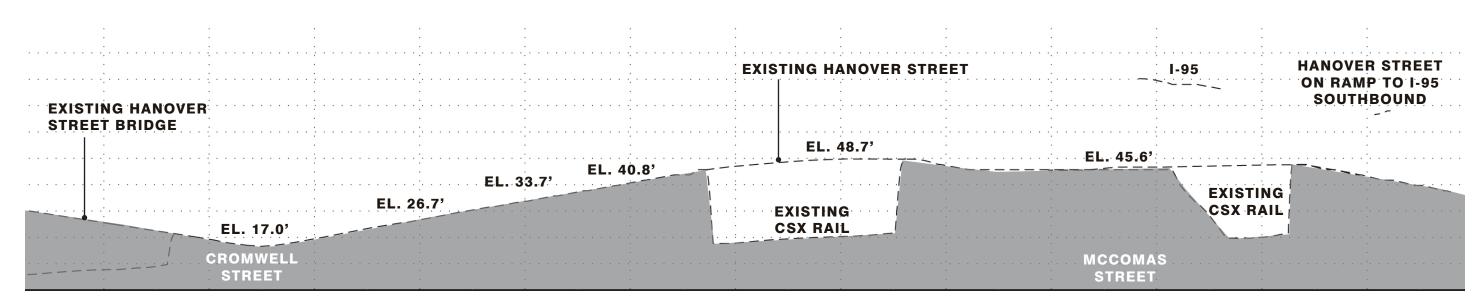
REGIONAL CONTEXT MAP



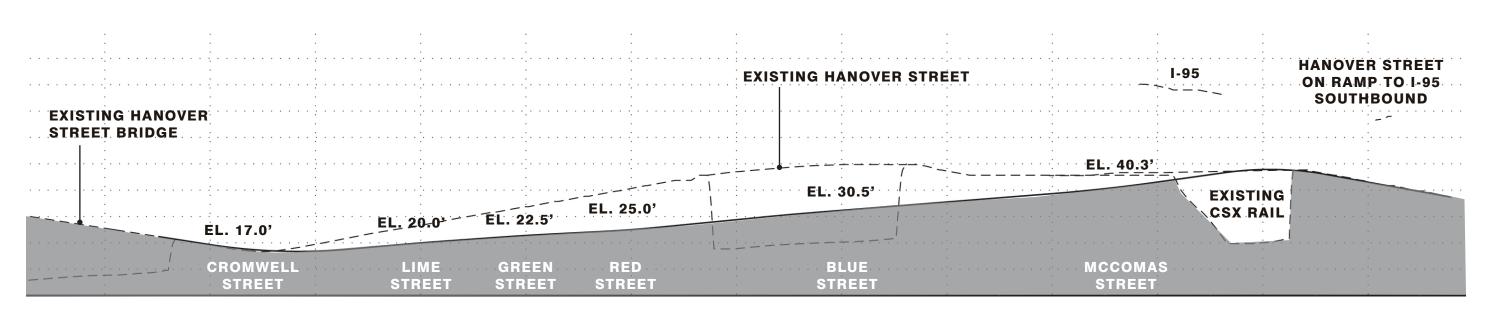
EXISTING CONDITIONS



HANOVER STREET EXISTING & PROPOSED PROFILES



EXISTING HANOVER STREET PROFILE



PROPOSED HANOVER STREET PROFILE

ENVIRONMENTAL CONSTRAINTS SOUTH BALTIMORE SWANN PARK SCHUSTER CONCRETE SPRING GARDEN SWING BRIDGE SOUTH BALTIMORE LOCUST POINT SUN AFP CITY SAGAMORE GARAGE SPIRITS CROMWELL STREET WEST COVINGTON LEGEND NICK'S **PARK** FISH I-95 Multi-Lane WINANS COVE HOUSE Highway CSX Railroad Tracks Hanover Street Commuter Route 1000-Foot Chesapeake Bay Critical Area 100-Foot Chesapeake Bay Critical Area Buffer \$ 16.31 + 162 - 5149 \$ 16.31 + 162 - 5149 100-Year Floodplain **Habitat Protection Area** MIDDLE BRANCE OF THE PATAPSED ©2016 Sagamore Development Company

ENVIRONMENTAL CONSTRAINTS I-95 NB OFF **SWANN** PARK SCHUSTER CONCRETE SPRING GARDEN SWING BRIDGE **BALTIMORE** SUN CITY GARAGE LEGEND I-95 Multi-Lane Highway CSX Railroad Tracks CROMWELL STREET **Hanover Street** Commuter Route 1000-Foot Chesapeake Bay Critical Area 100-Foot Chesapeake Bay Critical Area Buffer WEST COVINGTON 100-Year Floodplain **PARK Habitat Protection Area** NICK'S FISH HOUSE ©2016 Sagamore Development Company

SITE CHARACTER: WATER



SITE CHARACTER: PARK SYSTEM



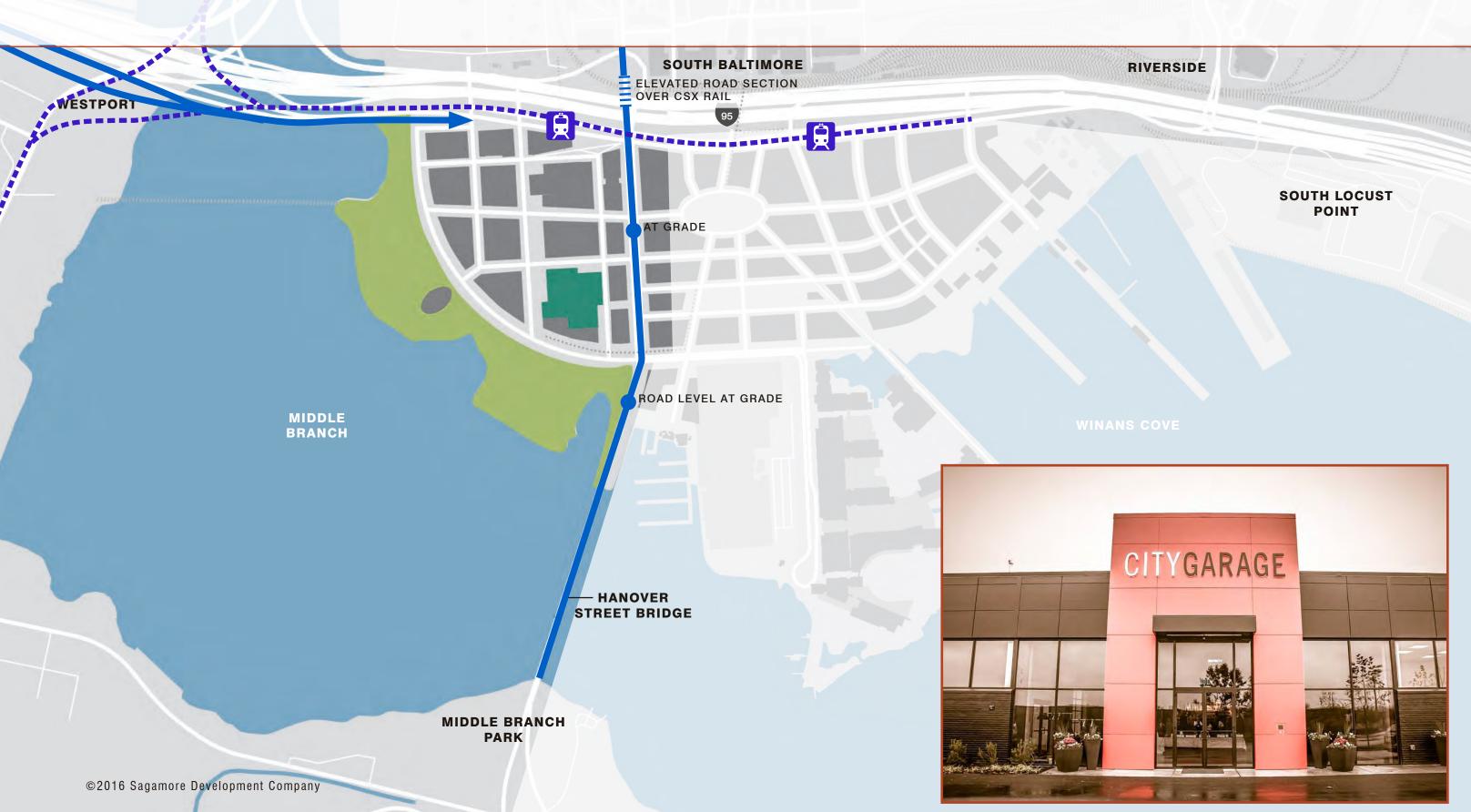
SITE CHARACTER: HANOVER STREET



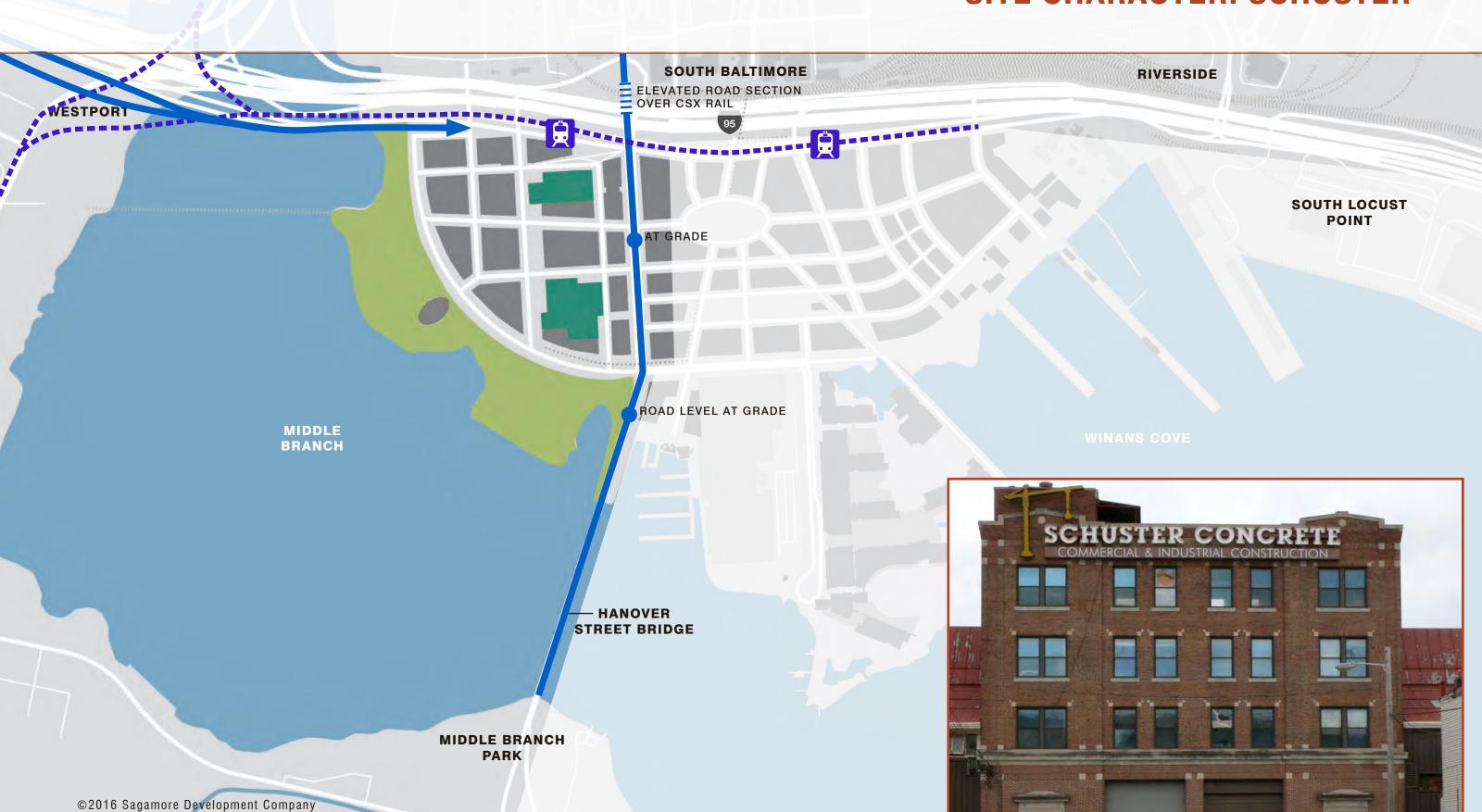
SITE CHARACTER: HIGHWAY AND LIGHT RAIL



SITE CHARACTER: CITY GARAGE



SITE CHARACTER: SCHUSTER





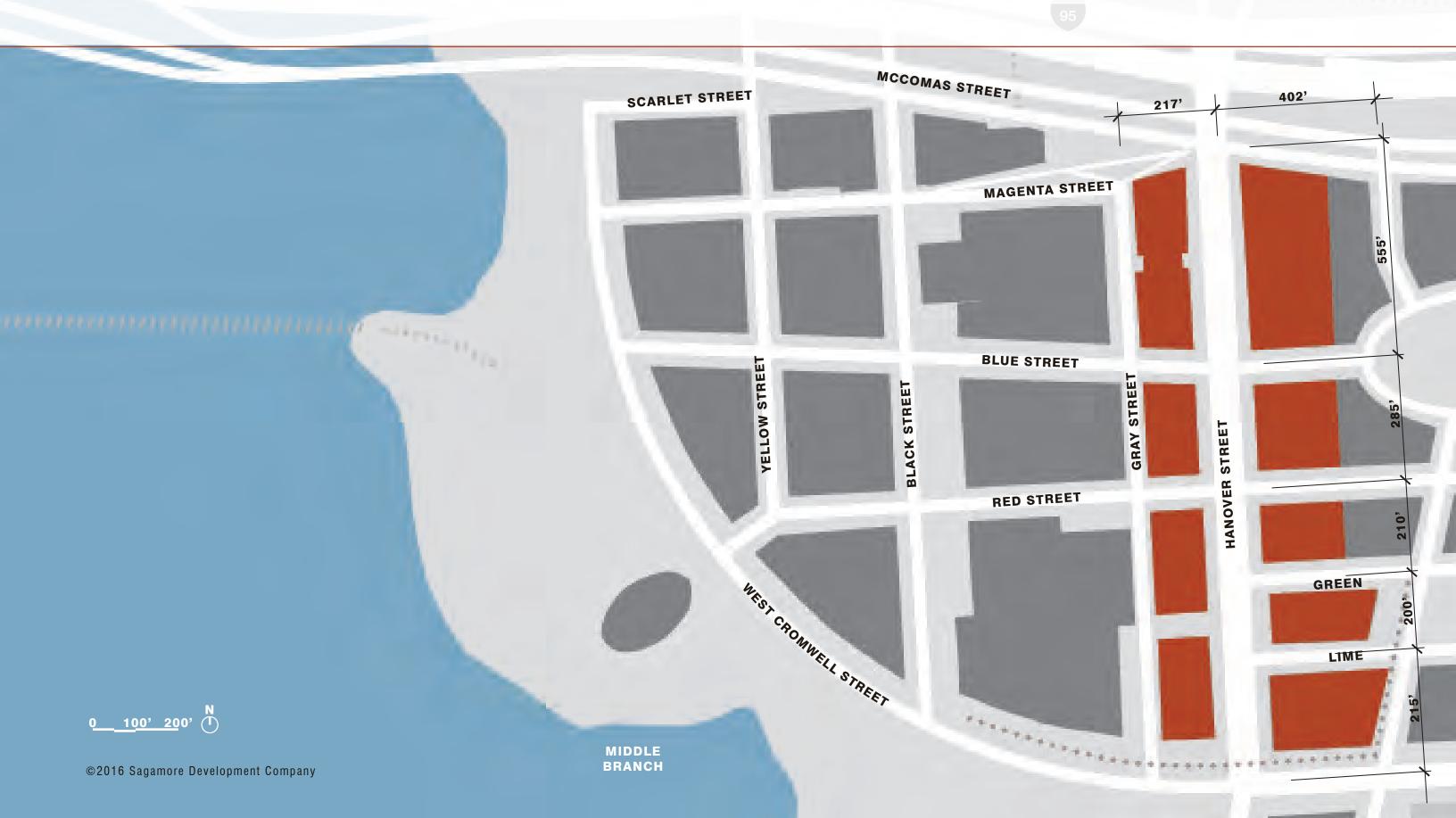


HANOVER STREET &

DAVID MANFREDI FAIA, LEED AP

Elkus Manfredi Architects Principal

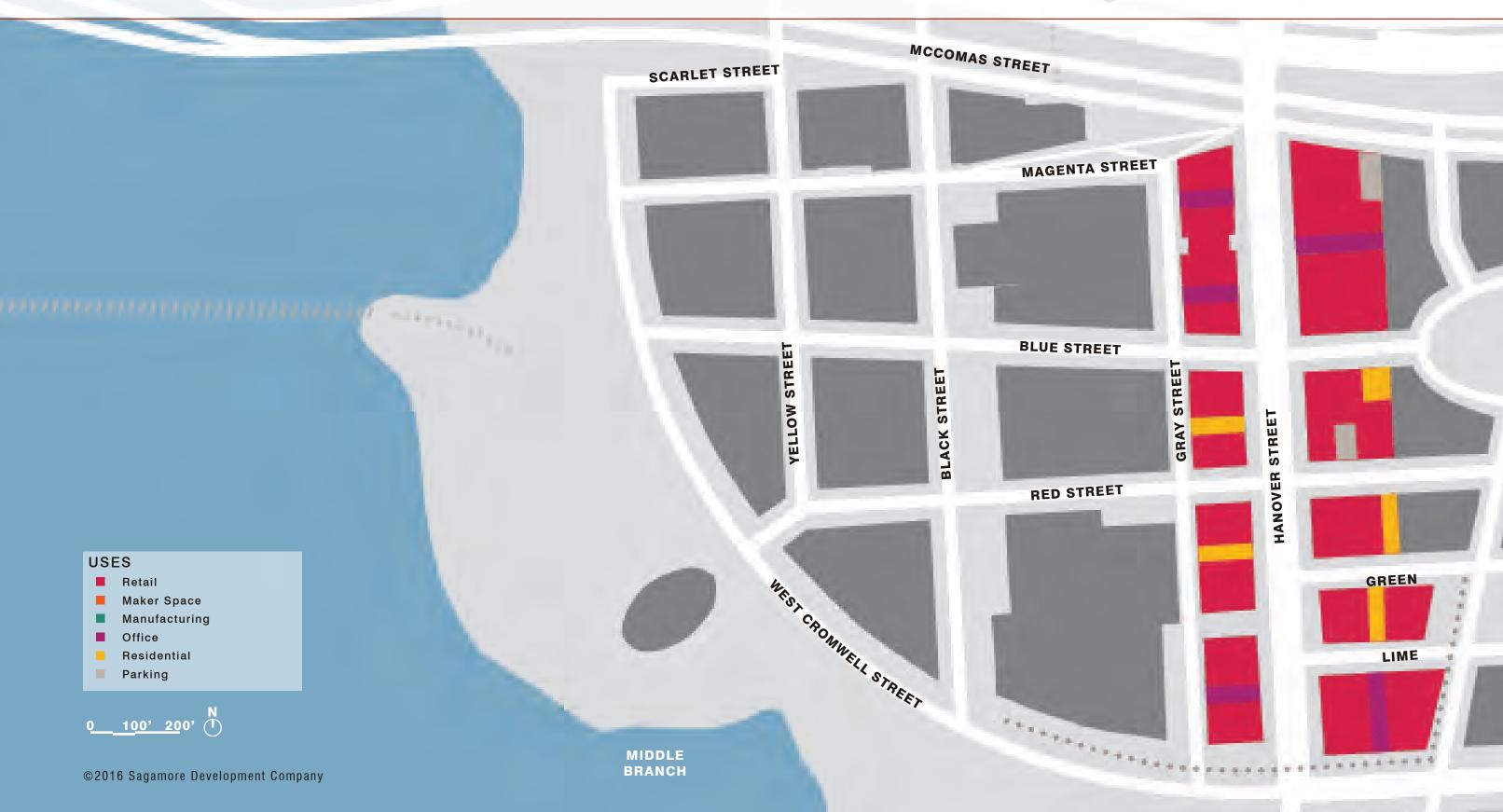




LOWER LEVEL PARKING



GROUND LEVEL USES

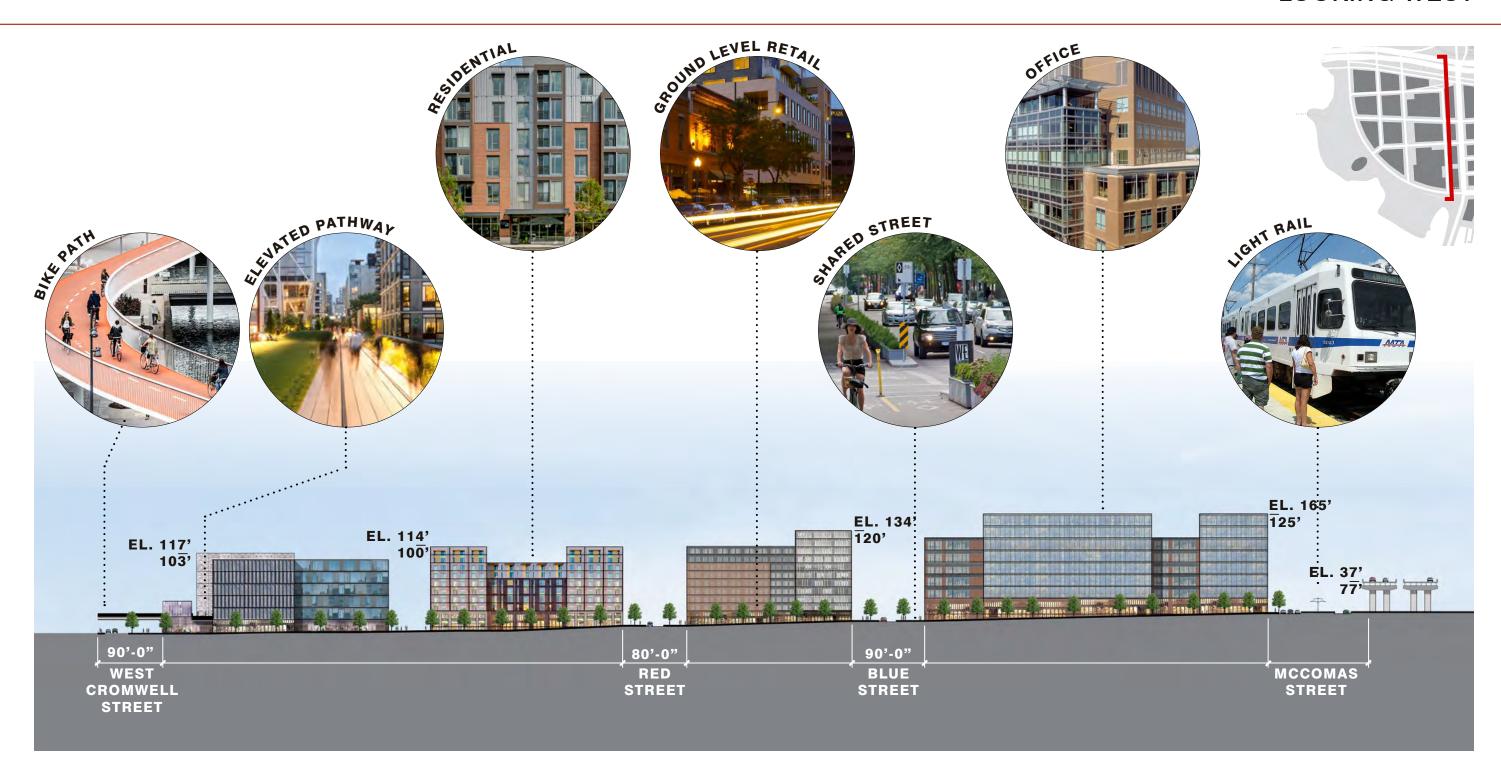


UPPER LEVEL USES



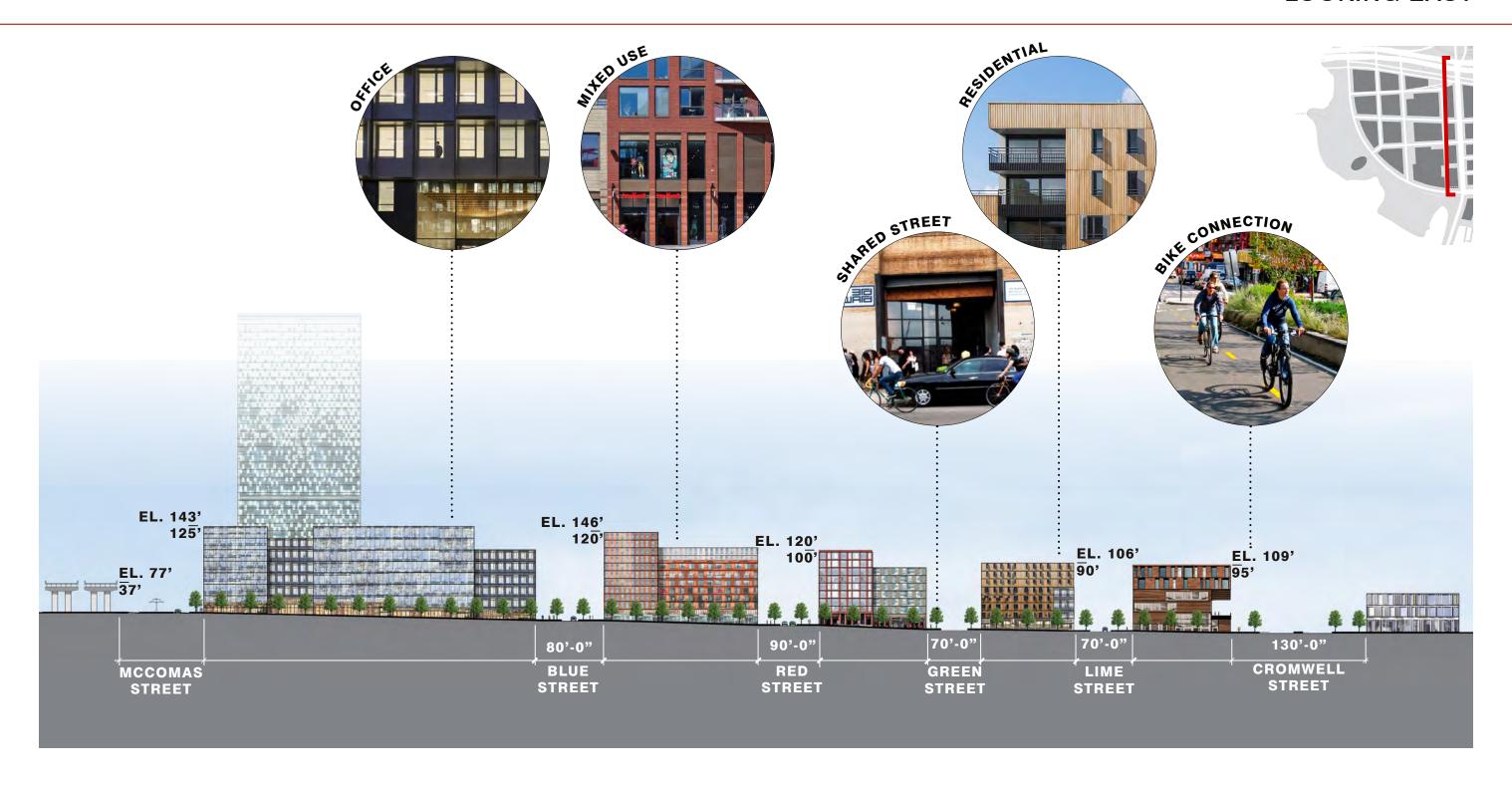
HANOVER STREET SECTION

LOOKING WEST



HANOVER STREET SECTION

LOOKING EAST



AERIAL VIEW FROM THE WEST



AERIAL VIEW FROM THE SOUTH

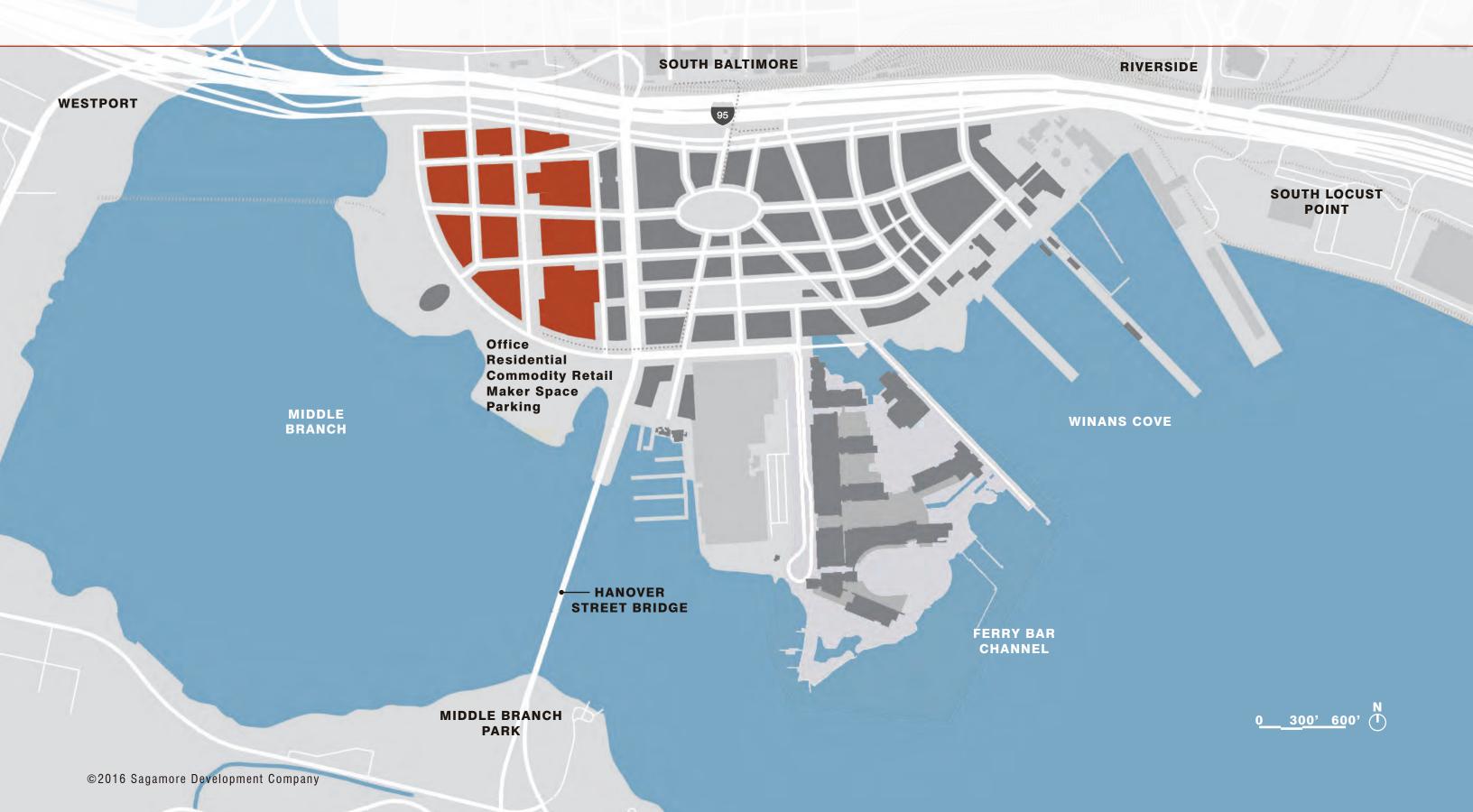


HANOVER STREET LOOKING NORTH



HANOVER STREET LOOKING SOUTH







GROUND LEVEL USES

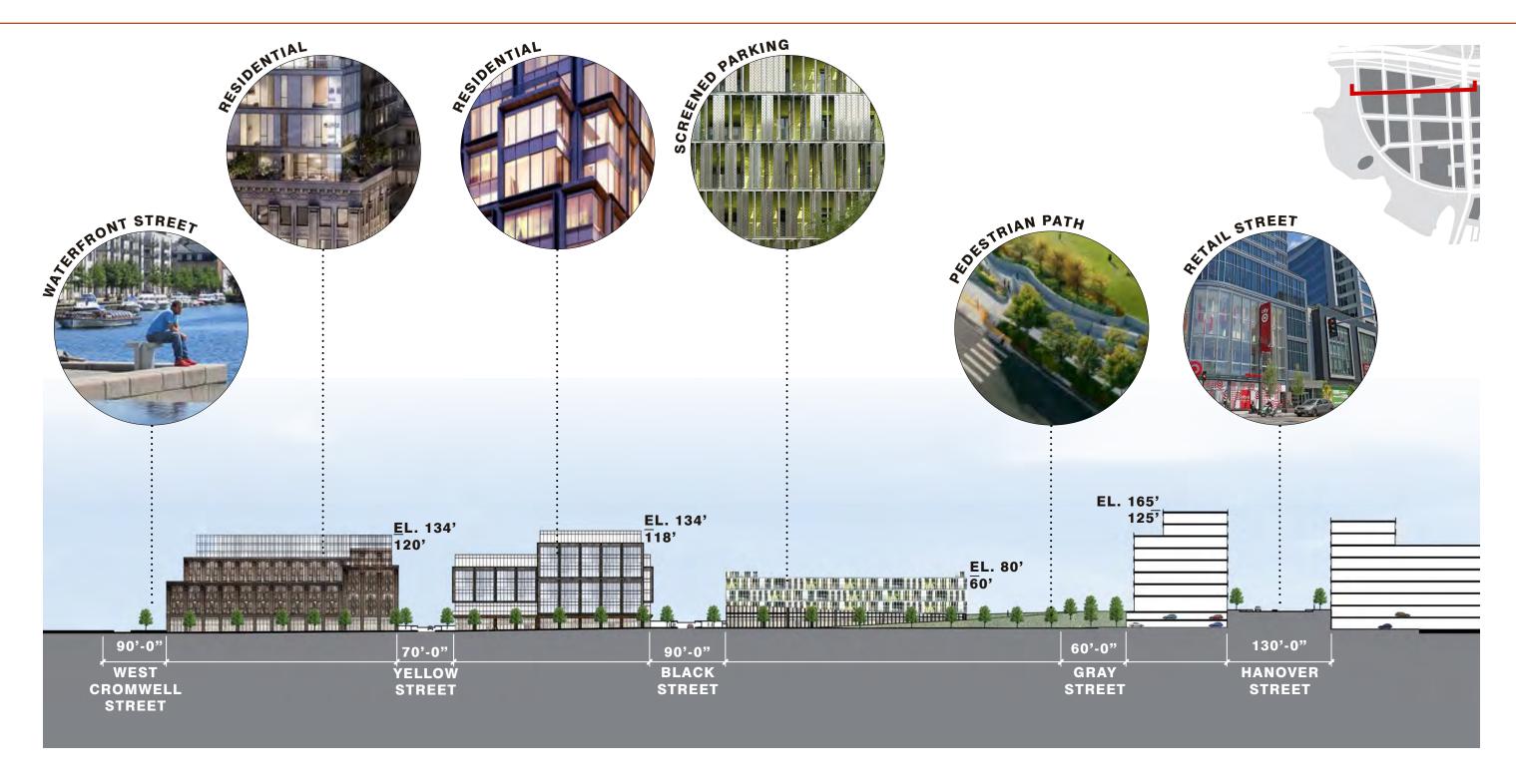


UPPER LEVEL USES



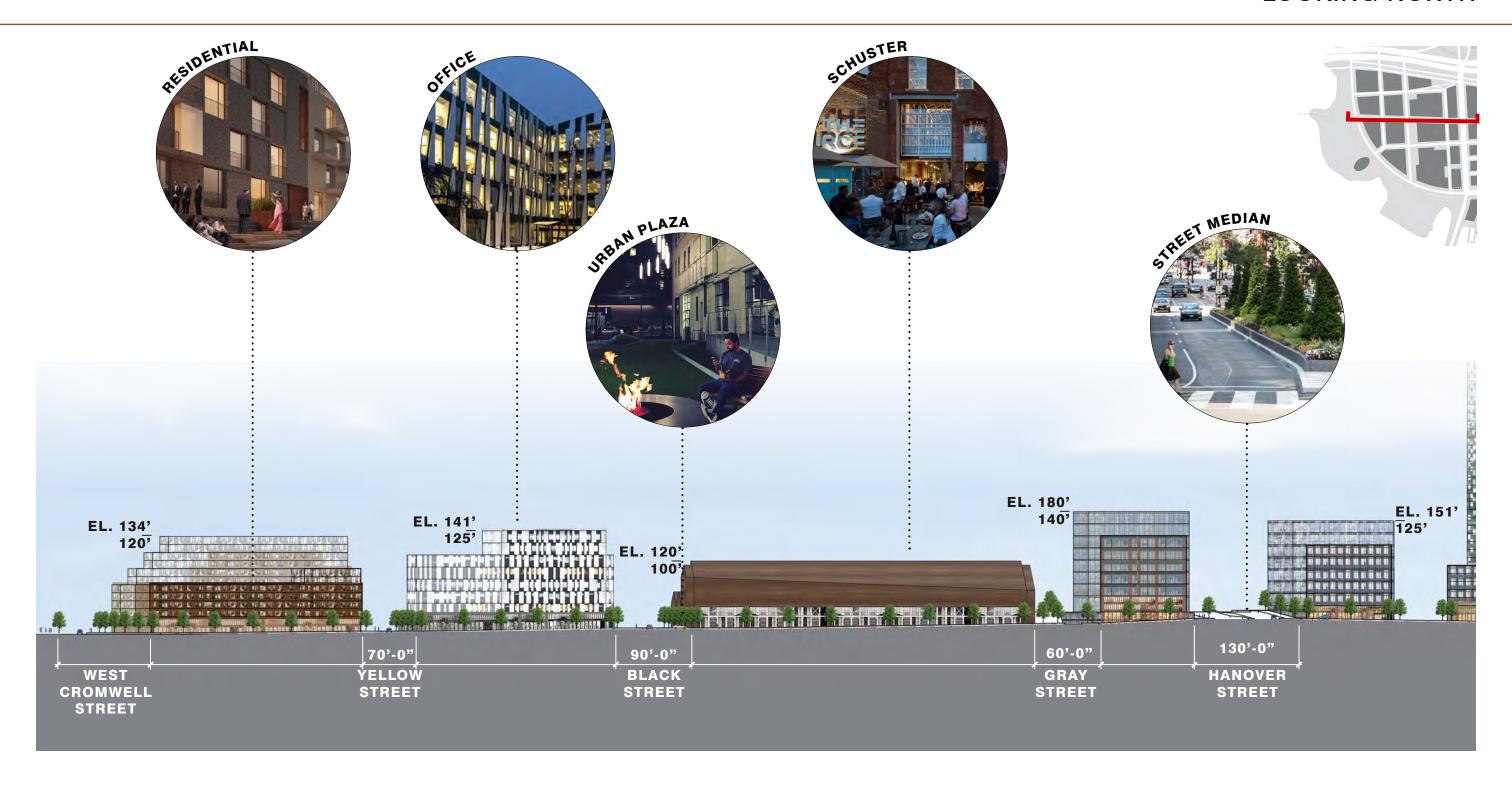
MAGENTA STREET SECTION

LOOKING NORTH



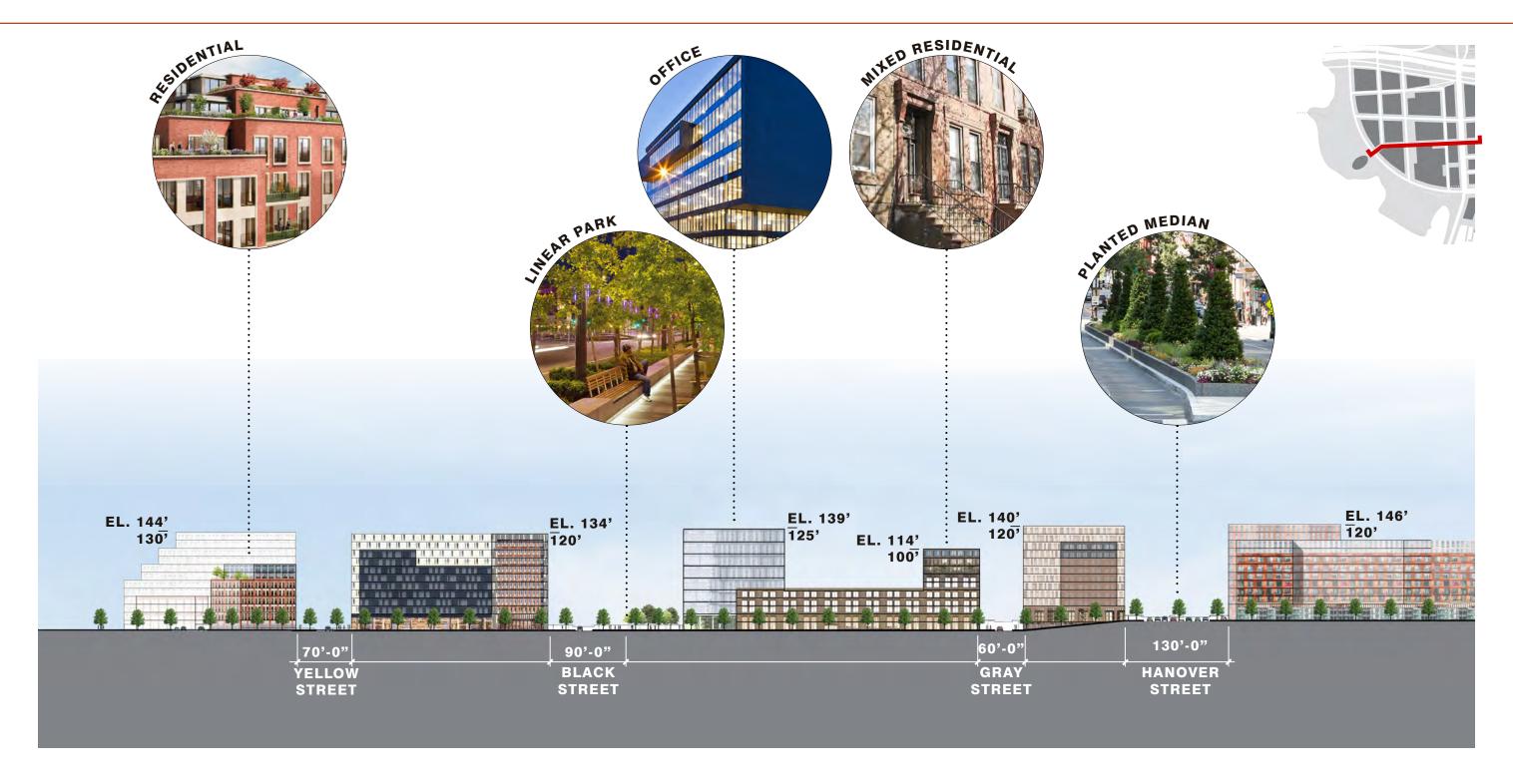
BLUE STREET SECTION

LOOKING NORTH



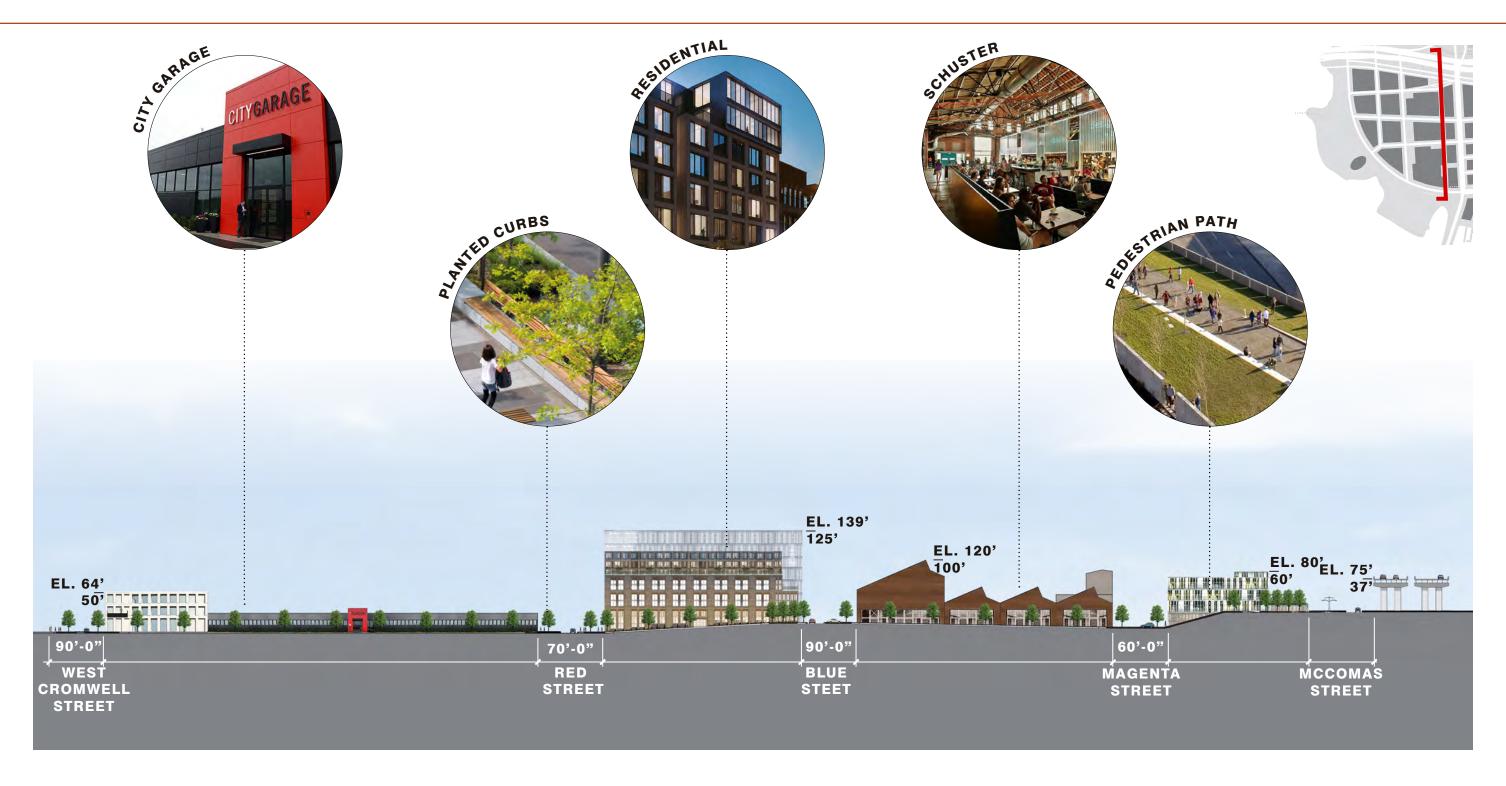
RED STREET SECTION

LOOKING NORTH



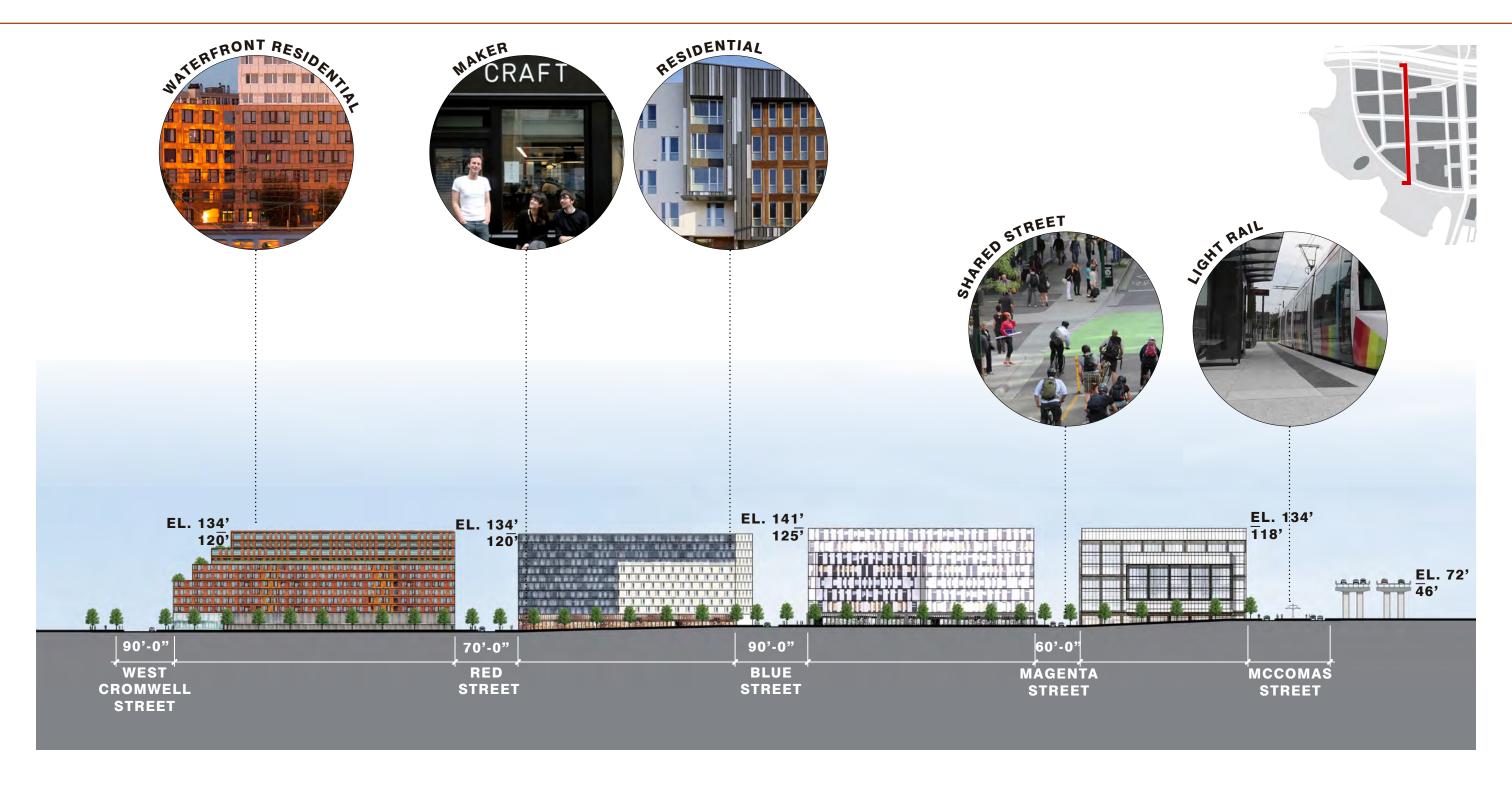
GRAY STREET SECTION

LOOKING WEST



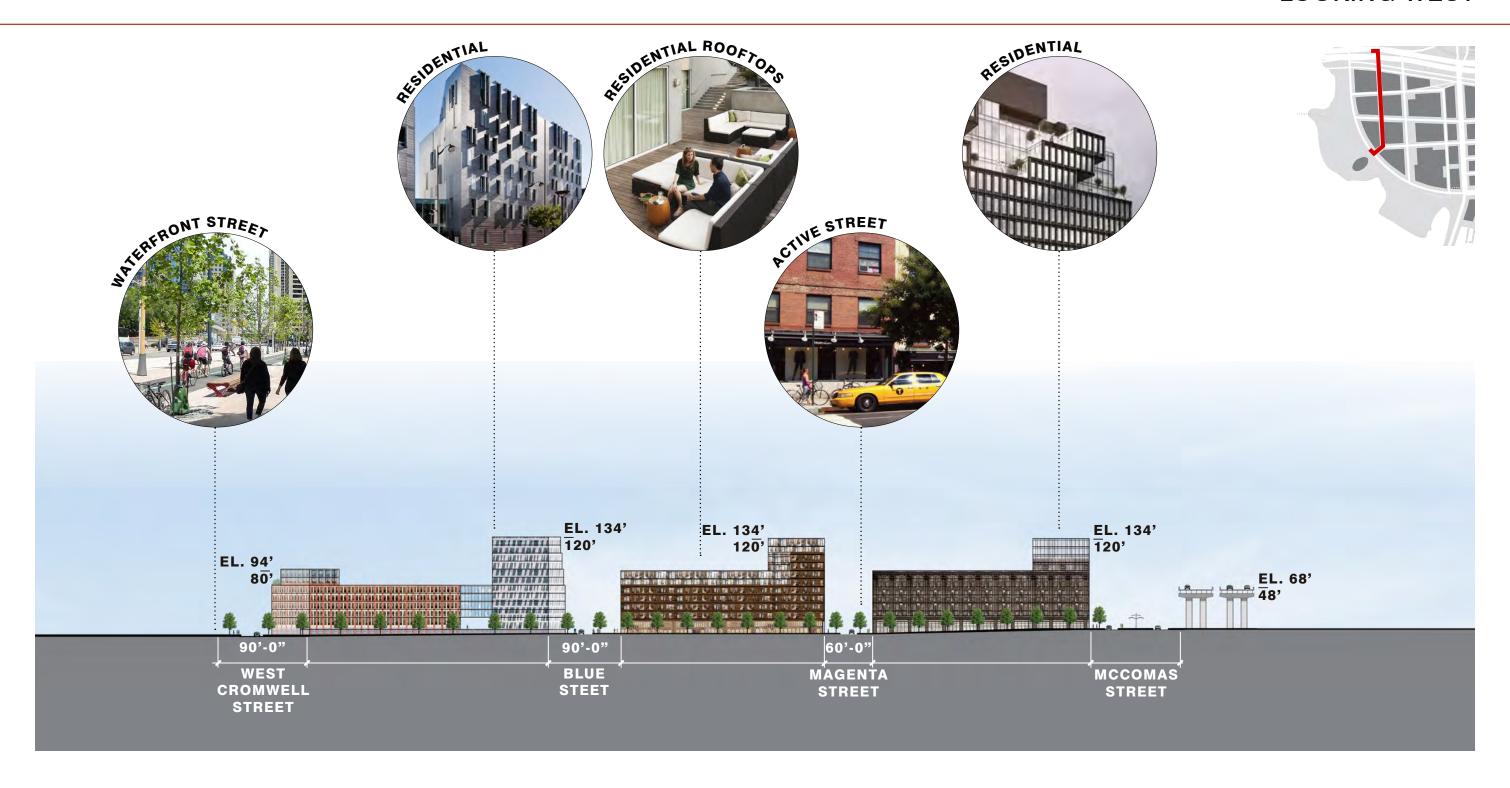
BLACK STREET SECTION

LOOKING WEST

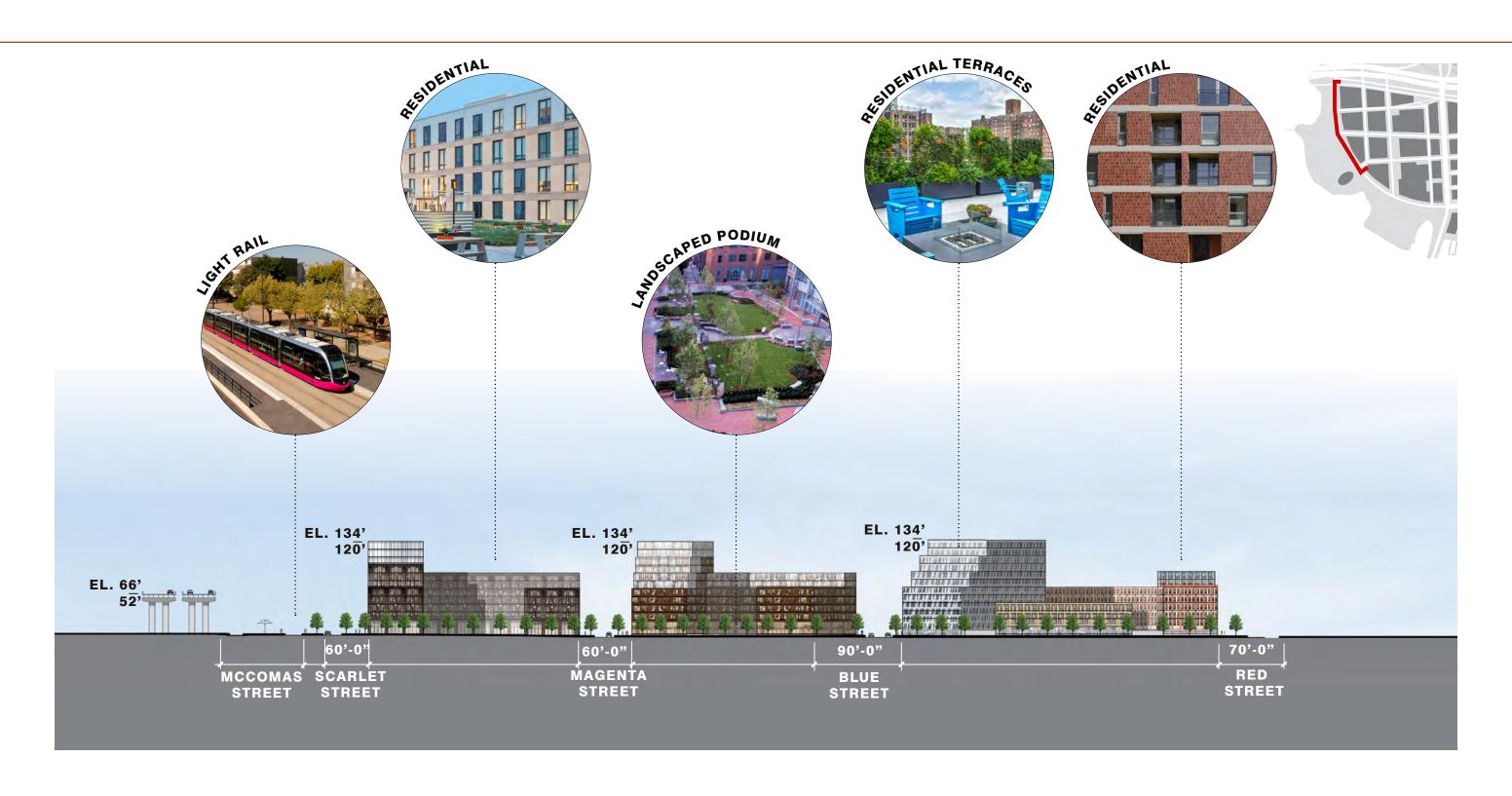


YELLOW STREET SECTION

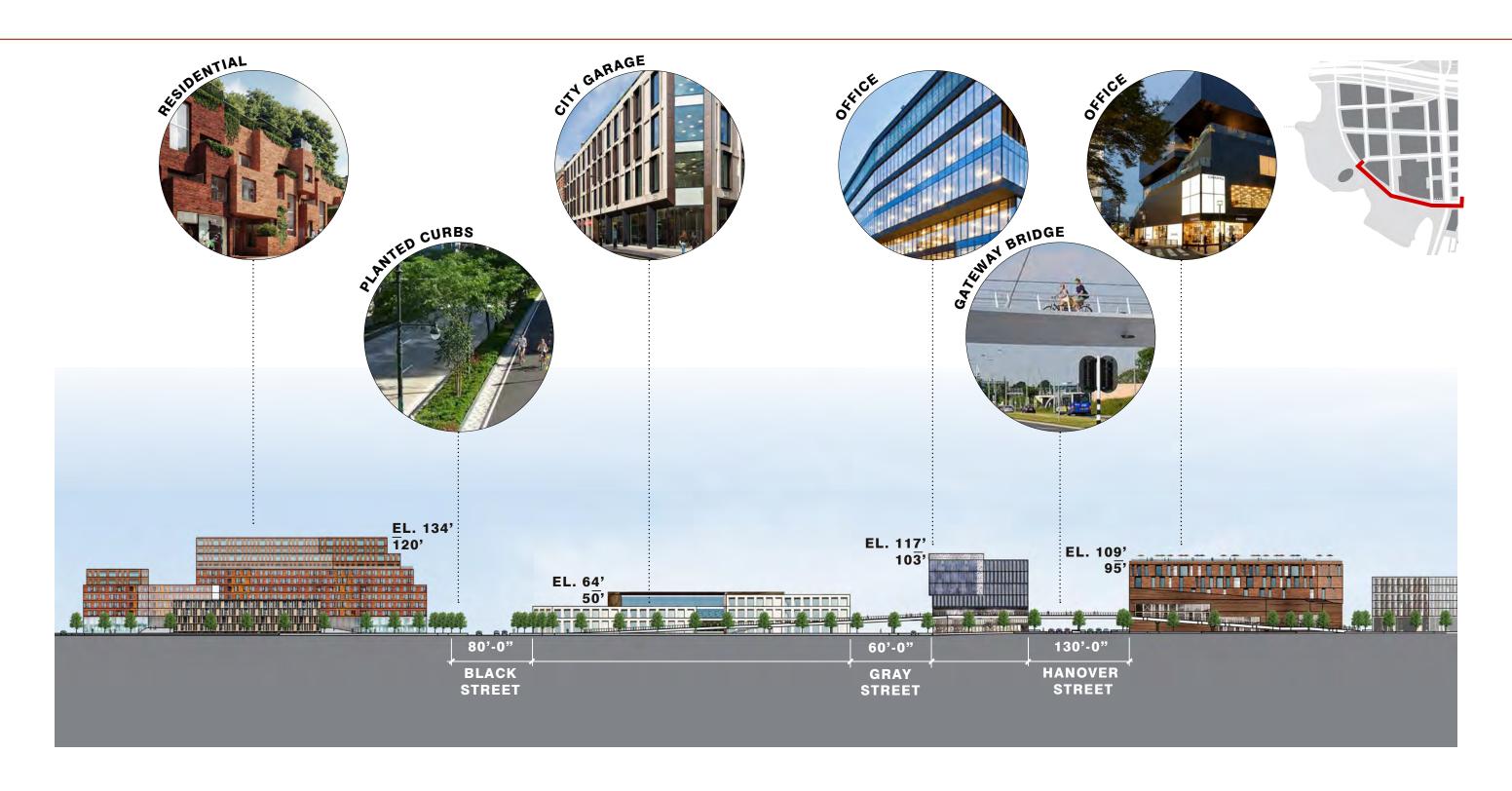
LOOKING WEST



WEST CROMWELL STREET SECTION (NORTH)



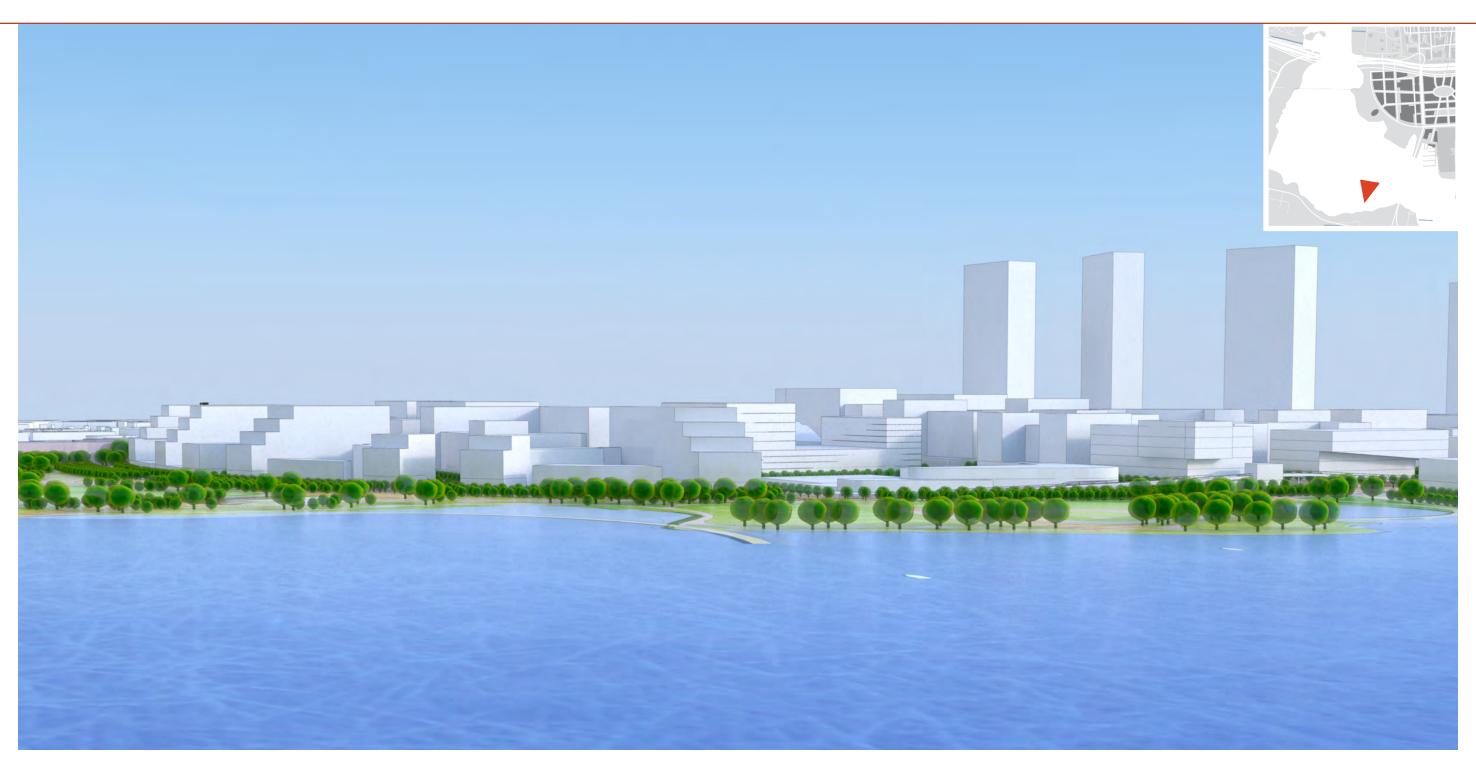
WEST CROMWELL STREET SECTION (SOUTH)



AERIAL VIEW FROM THE SOUTH



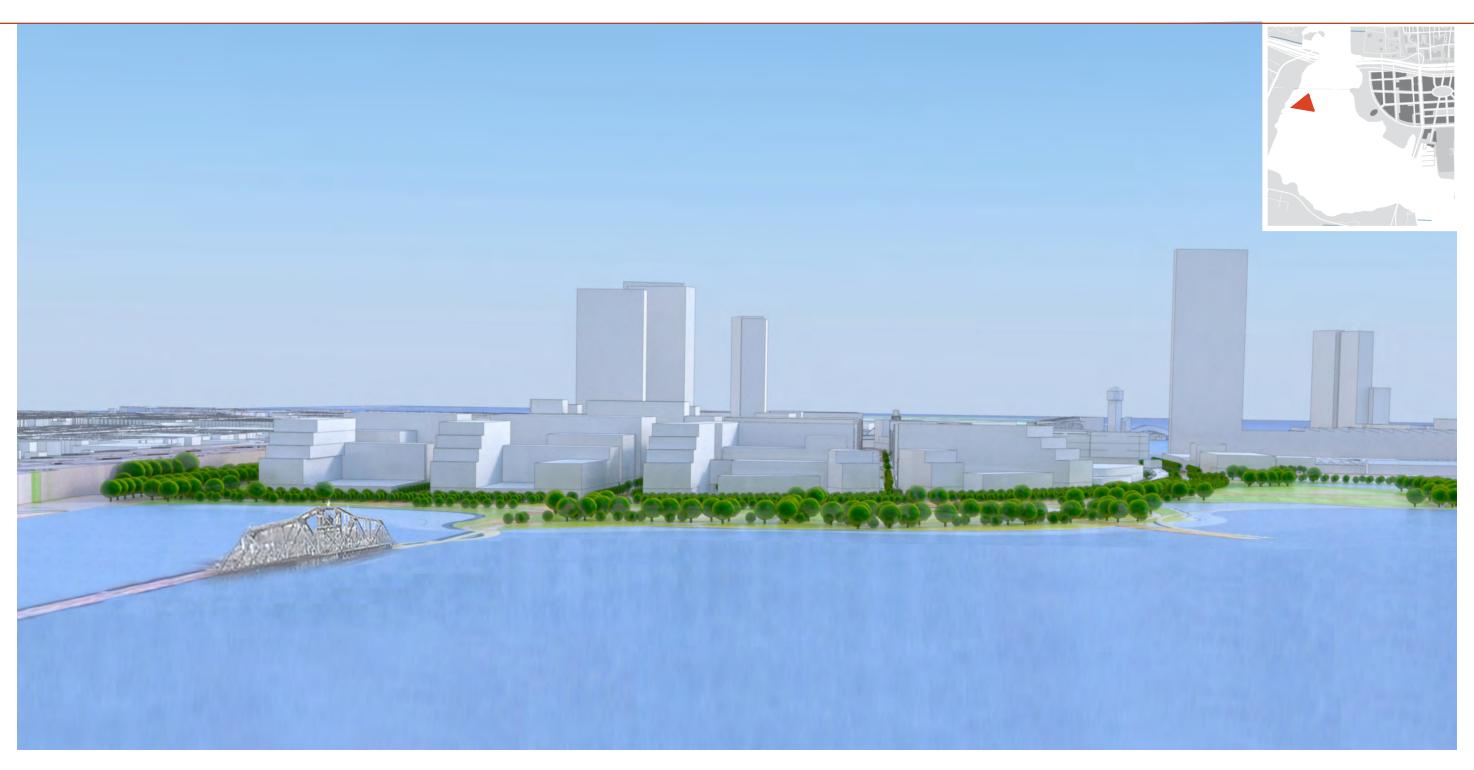
VIEW FROM THE CHERRY HILL



AERIAL VIEW FROM SOUTHWEST



VIEW FROM THE WESTPORT



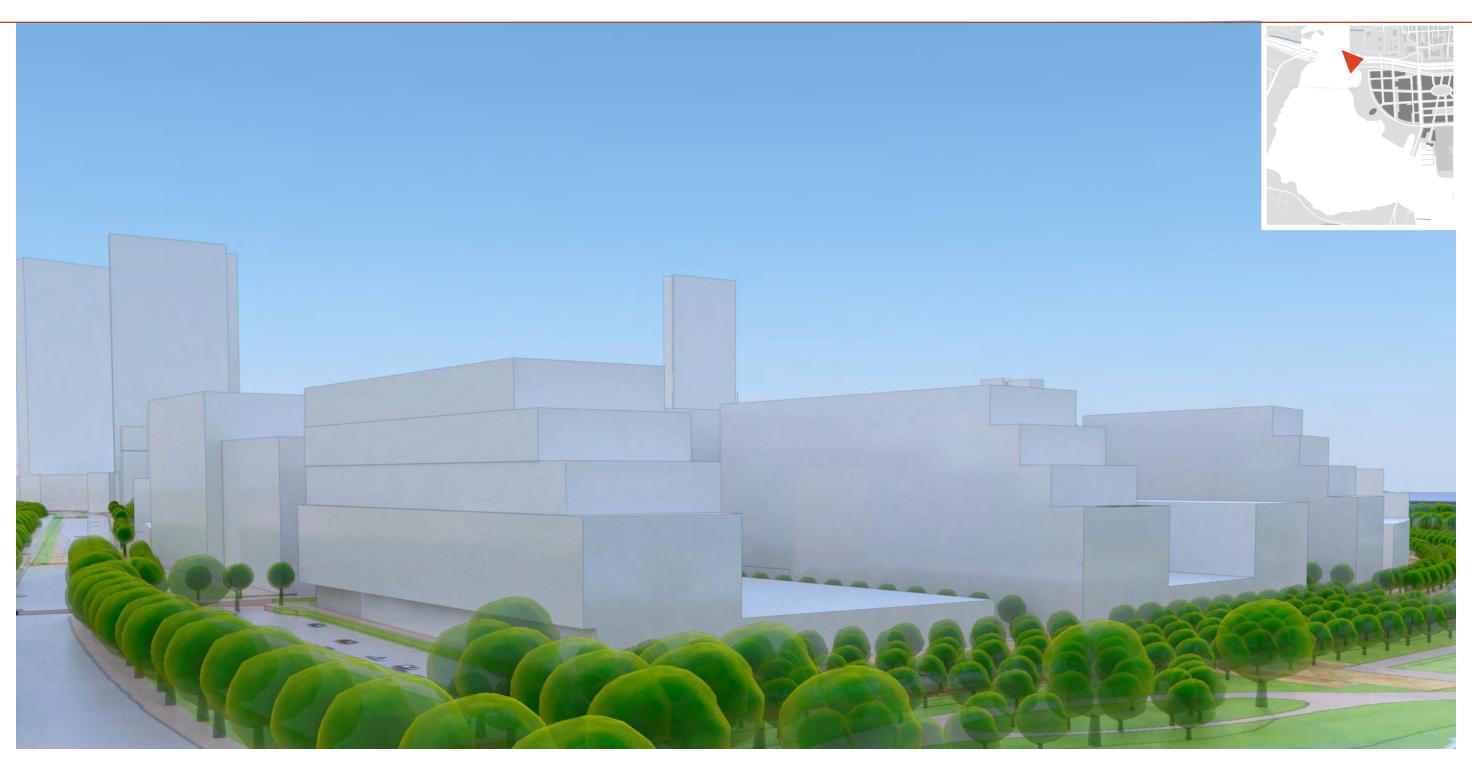
AERIAL VIEW FROM THE WEST



AERIAL VIEW FROM NORTHEAST



VIEW FROM I-95



AERIAL VIEW FROM THE NORTH



AERIAL VIEW LOOKING SOUTHWEST



VIEW LOOKING WEST ON BLUE STREET







HANOVER STREET &

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

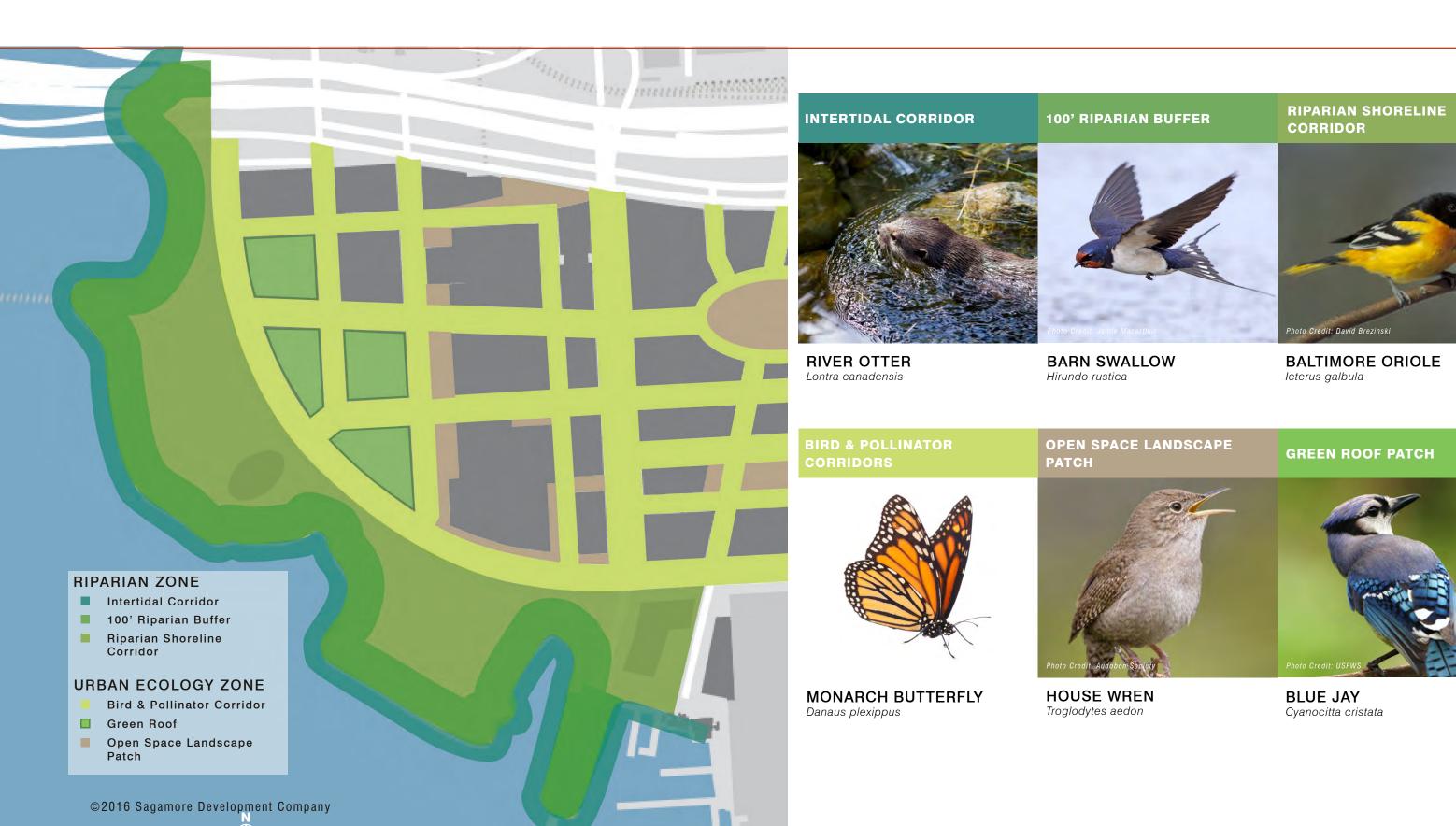
• Serves as a catalyst for community actions that promote ecological rejuvenation, health, and stewardship throughout the Middle Branch and Gwynns Falls watershed.



ECOSYSTEM ZONE DIAGRAM



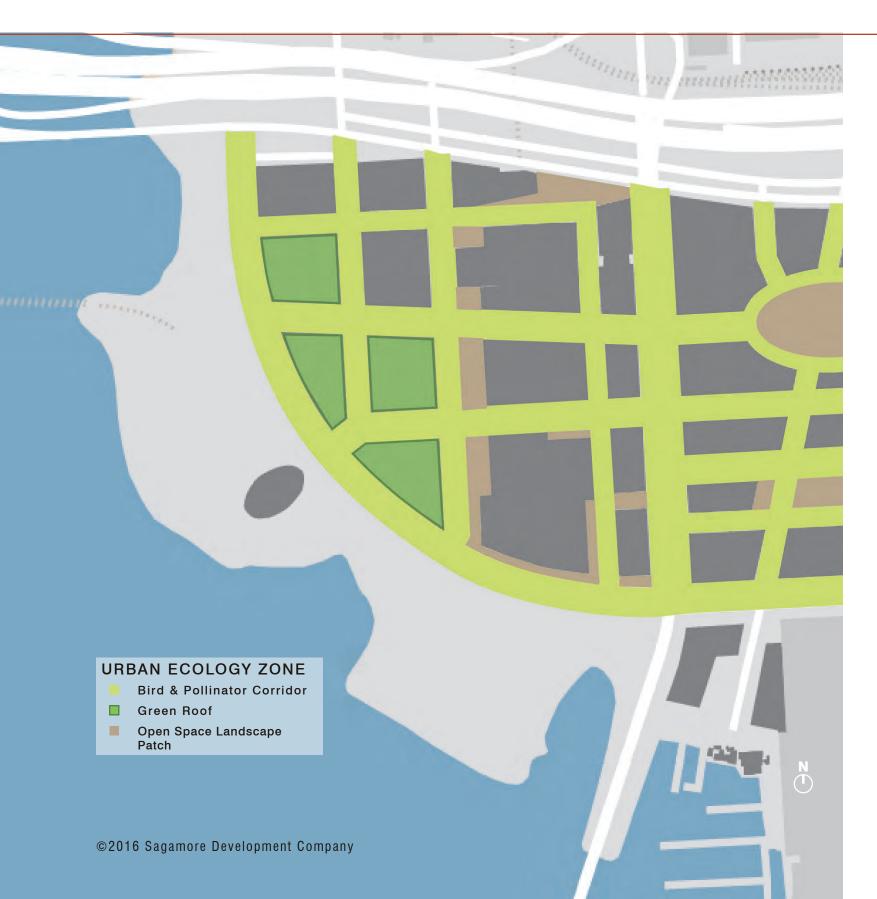
SPECIES BY ECOSYSTEM ZONE



ECOSYSTEM SERVICES - HANOVER STREET AND WEST END DISTRICT

	LANDSCAPE POSITION	METRICS
COLLECT & STORE WATER (SWM)	LIDI AND ARINI DINGS	Volume of water captured vs volume used vs volume conveyed to storm drain
COLLECT & STORE WATER (SWIII)	UPLAND / BUILDINGS	volume of water captured vs volume used vs volume conveyed to storm drain
FOOD/ URBAN AG	UPLAND / BUILDINGS	Calories or lbs. grown on or near site vs imported, pre and post
POLLINATION	UPLAND / SHORELINE	Pollinator surveys, pre and post; square feet of flowering plantings, pre and post
CYCLE NUTRIENTS	UPLAND	Lbs. of nutrients imported/generated/exported; lbs sequestered on site; offsets
HABITAT	UPLAND / SHORELINE	QHEI, types of habitat, species counts by habitat pre and post
BUILD SOILS	UPLAND	Cubic feet of amended soils, annual soil tests
INCREASE BIODIVERSITY	UPLAND / SHORELINE / BUILDINGS	Species counts by habitat (plant and wildlife) , pre and post
CONTROL FLOODING	SHORELINE	NOAA/ FEMA models - expected vs adapted; living shoreline sq ft
EVAPOTRANSPIRATION	UPLAND / SHORELINE	itree analysis and output; volume of water captured on roofs versus released
PROTECT SHORELINE (CRITICAL AREA BUFFER)	SHORELINE / UPLAND	Buffer width managed for habitat; QHEI; erosion measures pre and post
DARK SKY COMPLIANCE	UPLAND / SHORELINE / BUILDINGS	Pre and post measures, reduction versus typical comparable; monitor wildlife
URBAN HEAT ISLAND	UPLAND / BUILDINGS	Annual/seasonal avg temps; albedo (pre and post); %IC vs %PC
CARBON SEQUESTRATION	UPLAND / SHORELINE	Annual metric tons carbon generated vs sequestered offsets from trees
FILTER AIR AND WATER (SWM)	UPLAND / SHORELINE / BUILDINGS	itree analysis and output monitor water quality in stormwater practices
EDUCATION	UPLAND / SHORELINE / BUILDINGS	Long term monitoring, number of educational programs (bio-blitzs) or annual student visits
RESPITE	UPLAND / SHORELINE	Site user surveys; perception of opportunities, daily use
AESTHETICS	UPLAND / SHORELINE / BUILDINGS	Monumented photo sites, change over time; survey of user's perceptions of landscapes
RECREATION	UPLAND / SHORELINE	Survey of pre-/post-constrction user numbers, events held; monitoring of sensitive species
JOBS	UPLAND / SHORLINE / BUILDINGS	Jobs created: landscape maintenance, monitoring; annual & seasonal

ECOSYSTEM SERVICES - URBAN ECOLOGY ZONE



PROVISIONING

SUPPORTING



FILTER AIR AND WATER

- STORMWATER MANAGEMENT
- STORE WATER FOR ONSITE REUSE

CYCLE NUTRIENTS/WASTE

- URBAN AGRICULTURE
- COMPOSTING PLANT MATERIAL AND FOOD WASTE
- BUILD SOILS

REGULATING

URBAN HEAT ISLAND

- REDUCE IMPERVIOUS COVER THROUGH GREEN ROOFS AND NATIVE VEGETATION
- PLANTS PROVIDE SHADE AND DECREASE OVERALL TEMPERATURES

CULTURAL



AESTHETICS

- NATIVE SYSTEM AS PHYSICAL CONTEXT FOR REDEVELOPMENT
- NATIVE PLANT PALETTE FOR MIDDLE RIVER
- LIVING SHORELINE RESTORATION

ECOSYSTEM SERVICES - RIPARIAN ECOLOGY ZONE



PROVISIONING



POLLINATION

- SPECIES HOST BALTIMORE CHECKERSPOT & MONARCH BUTTERFLY
- RESPONDING TO NATIVE PLANT PALETTE, BIODIVERSITY
- PRODUCTIVE LANDSCAPES

INCREASE BIODIVERSITY

- PROMOTING ECORESILIENCY
- NATIVE HABITAT INTEGRATED INTO LANDSCAPE DESIGN
- SHORELINE RESTORATION

REGULATING



EVAPOTRANSPIRATION- MANAGING STORMWATER THROUGH VEGETATED PRACTICES, TREE CANOPY, HEALTHY SOILS, & WATERBODIES

CULTURAL

SUPPORTING



RECREATION

- BIRDING & FISHING
- MIX OF ACTIVE AND PASSIVE OPPORTUNITIES
- ACCESS TO PUBLIC OPEN SPACE WITH CONTEXT-RESPONSIVE ACTIVITIES
- RESPITE WITHIN URBAN CONTEXT





HANOVER STREET &

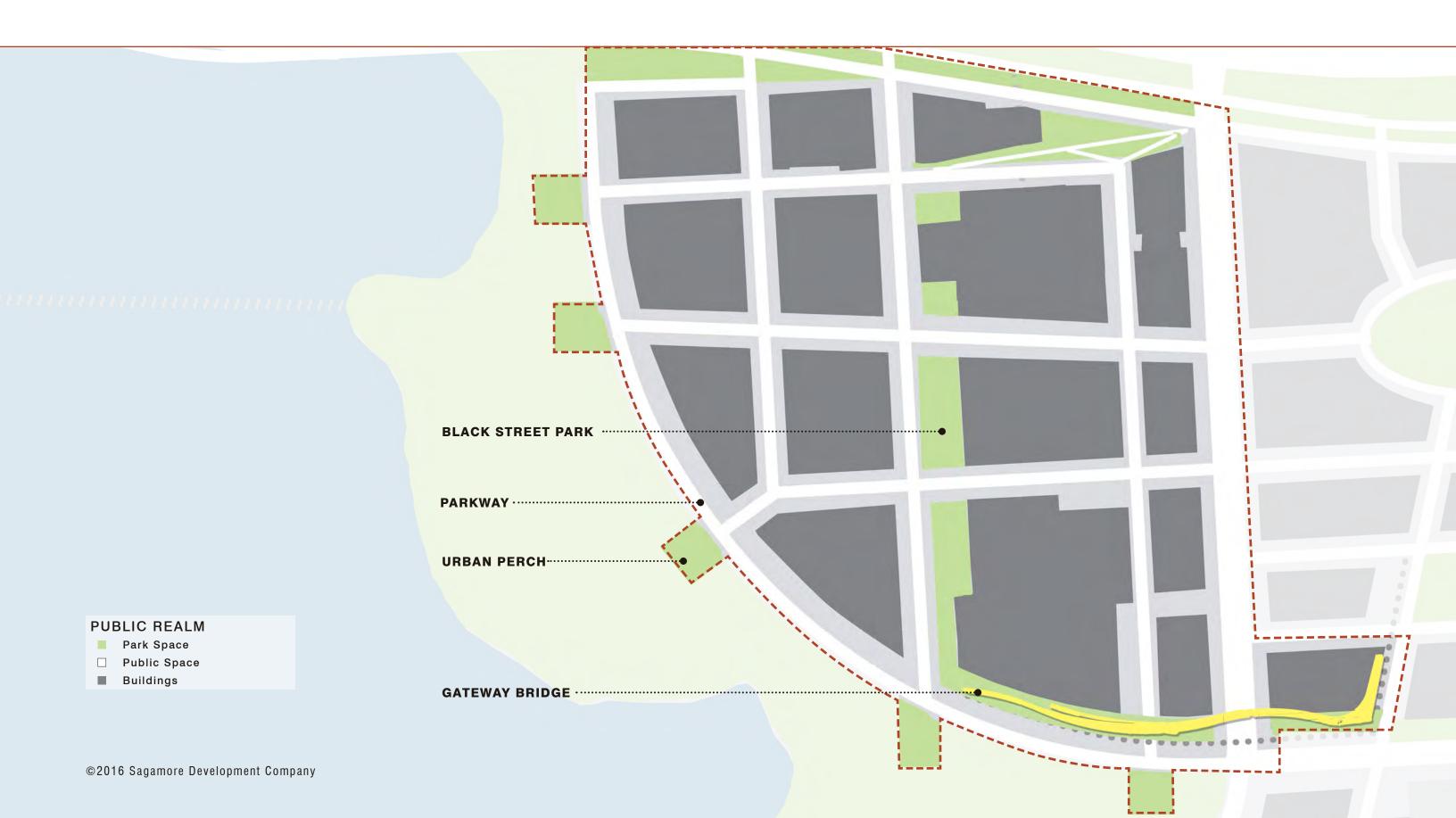
MICHAEL BLIER Landworks Studio Inc.

Principal

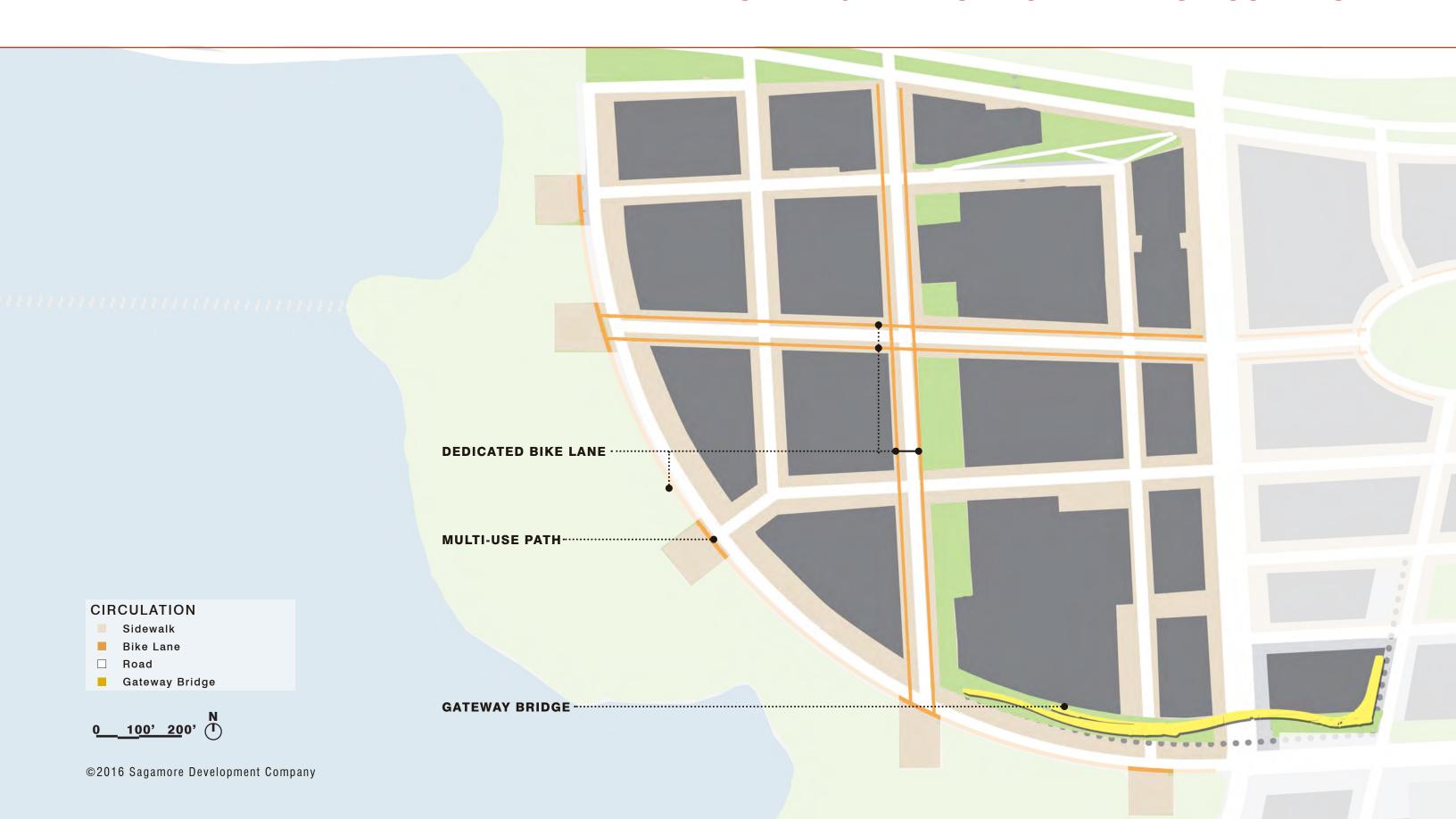
OPEN SPACE FRAMEWORK



BUILDING THE PUBLIC REALM: OPEN SPACE



BUILDING THE PUBLIC REALM: CIRCULATION



BUILDING THE PUBLIC REALM: NEIGHBORHOOD CONNECTIONS



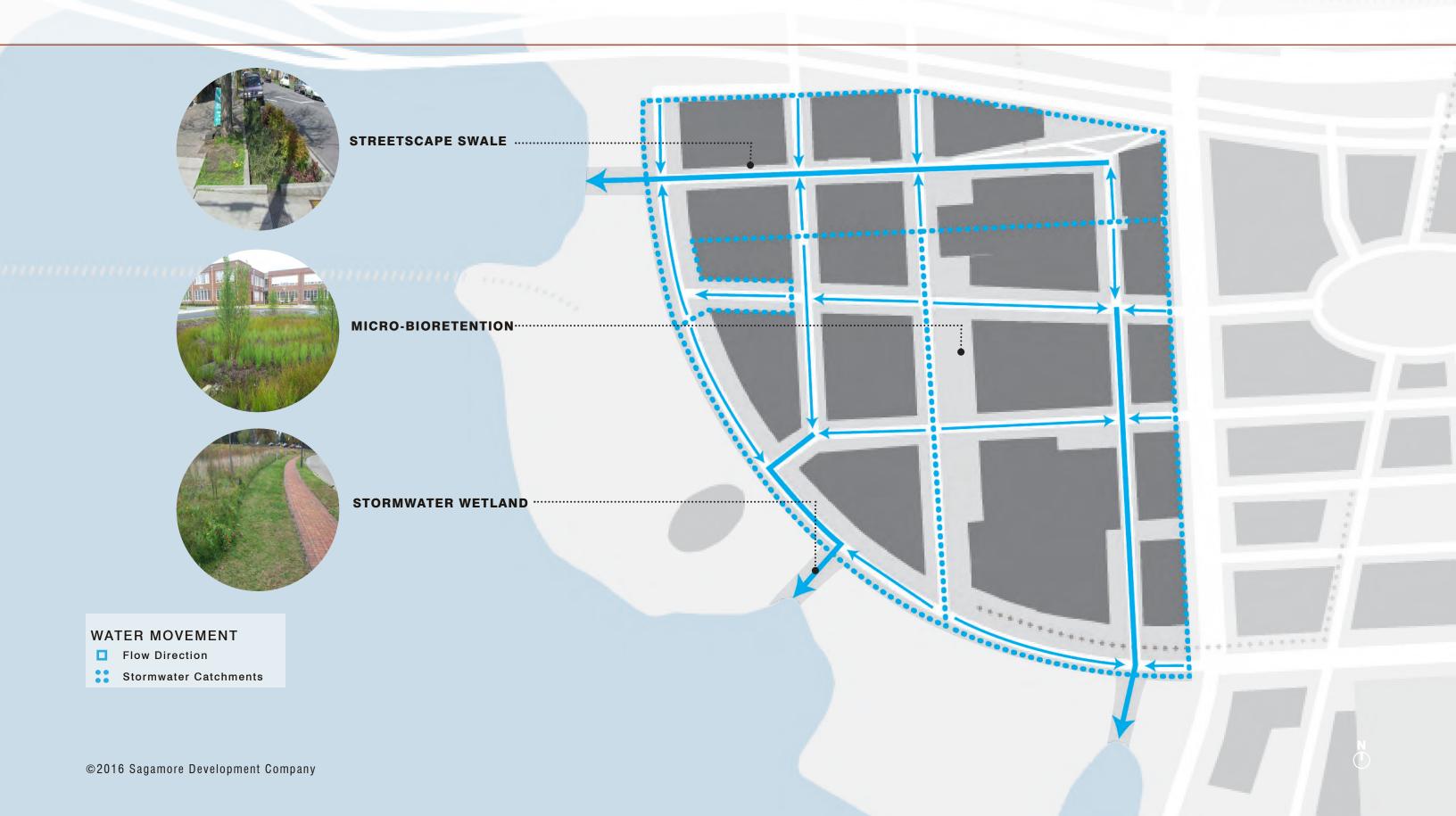
BUILDING THE PUBLIC REALM: STREET CHARACTER



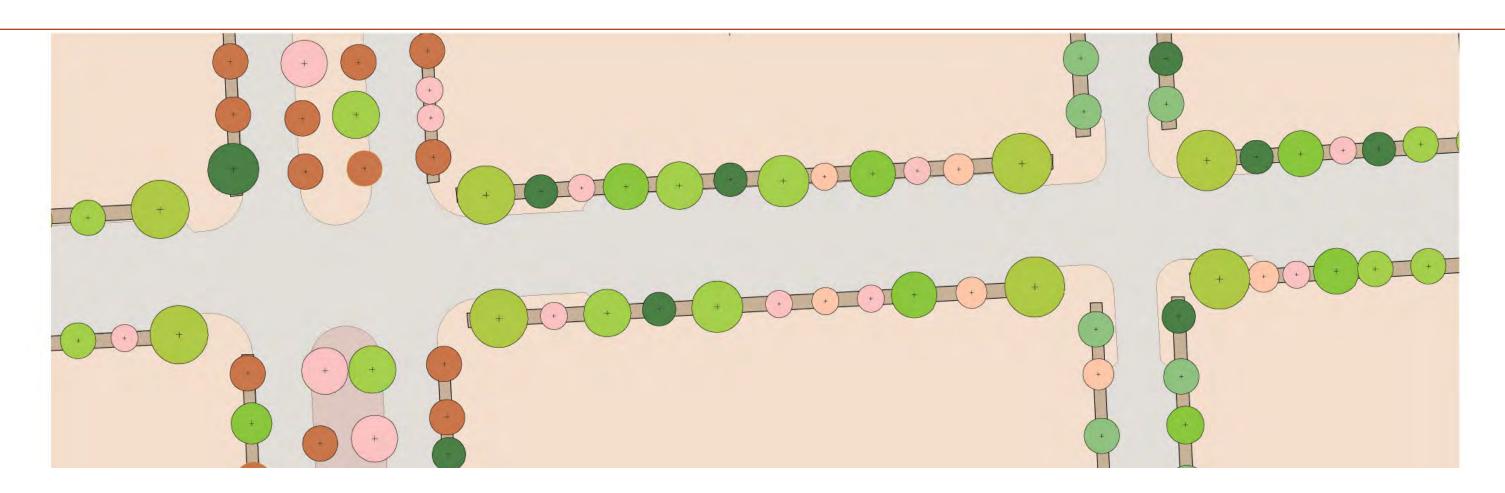
BUILDING THE PUBLIC REALM: MAKING PLACE



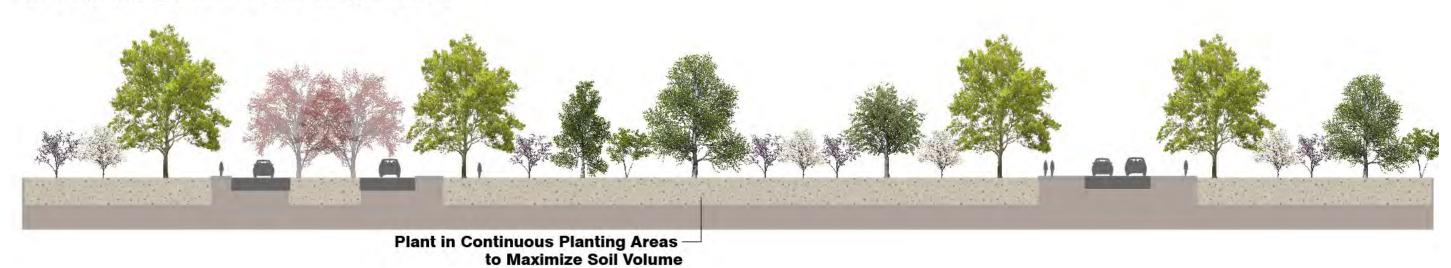
BUILDING THE PUBLIC REALM: WATER MOVEMENT



BUILDING THE PUBLIC REALM: RESILIENT STREET CORRIDOR



Plant Many Species on Each Street, Avoid Monocultures, and Vary Planting Distances Based on Species Sizes



BUILDING AN OPEN SPACE SYSTEM: UNDERSTORY PLANTING



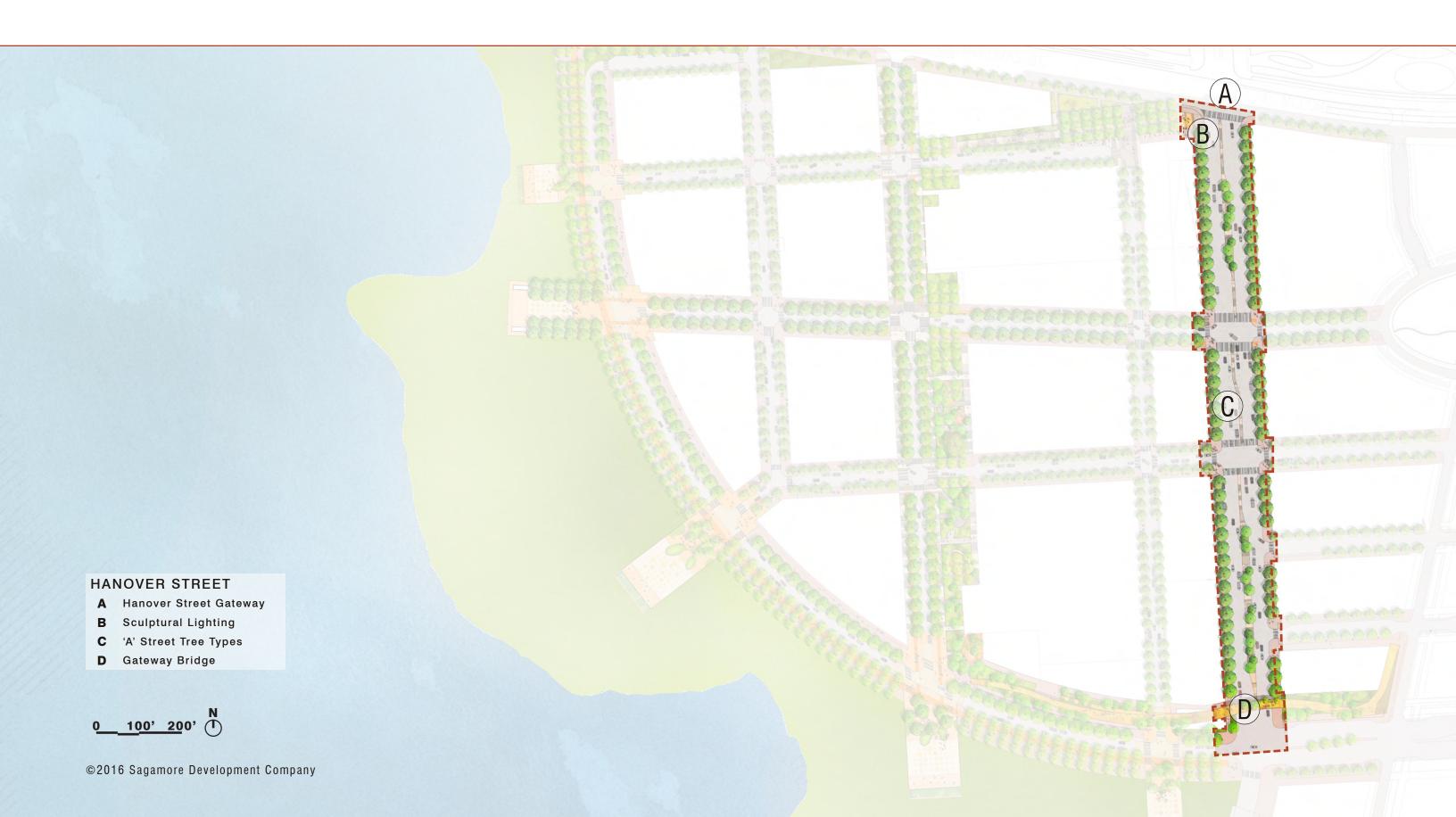
BUILDING AN OPEN SPACE SYSTEM: TREE PLANTING



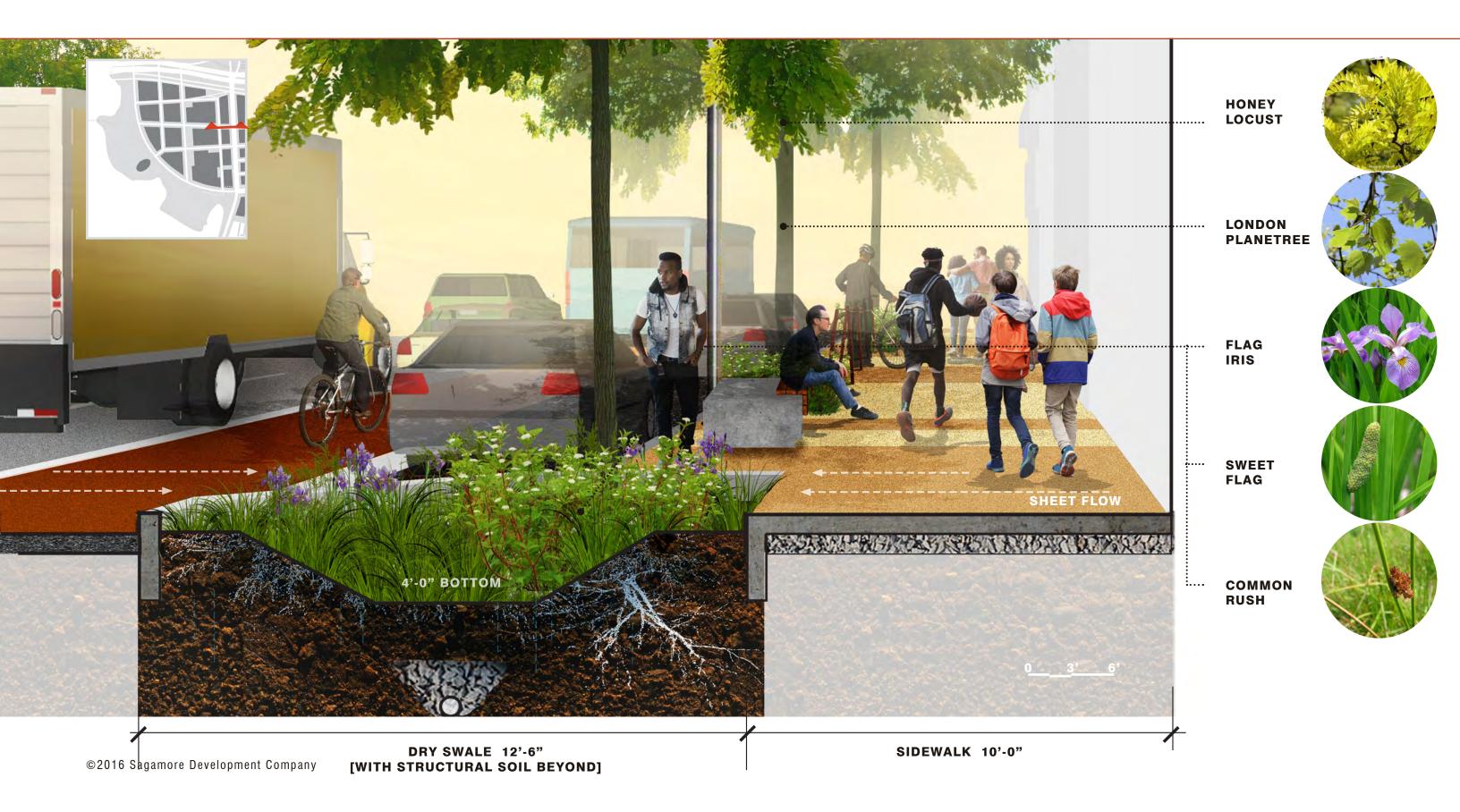
PUBLIC REALM CONCEPT PLAN



HANOVER STREET DISTRICT PLAN



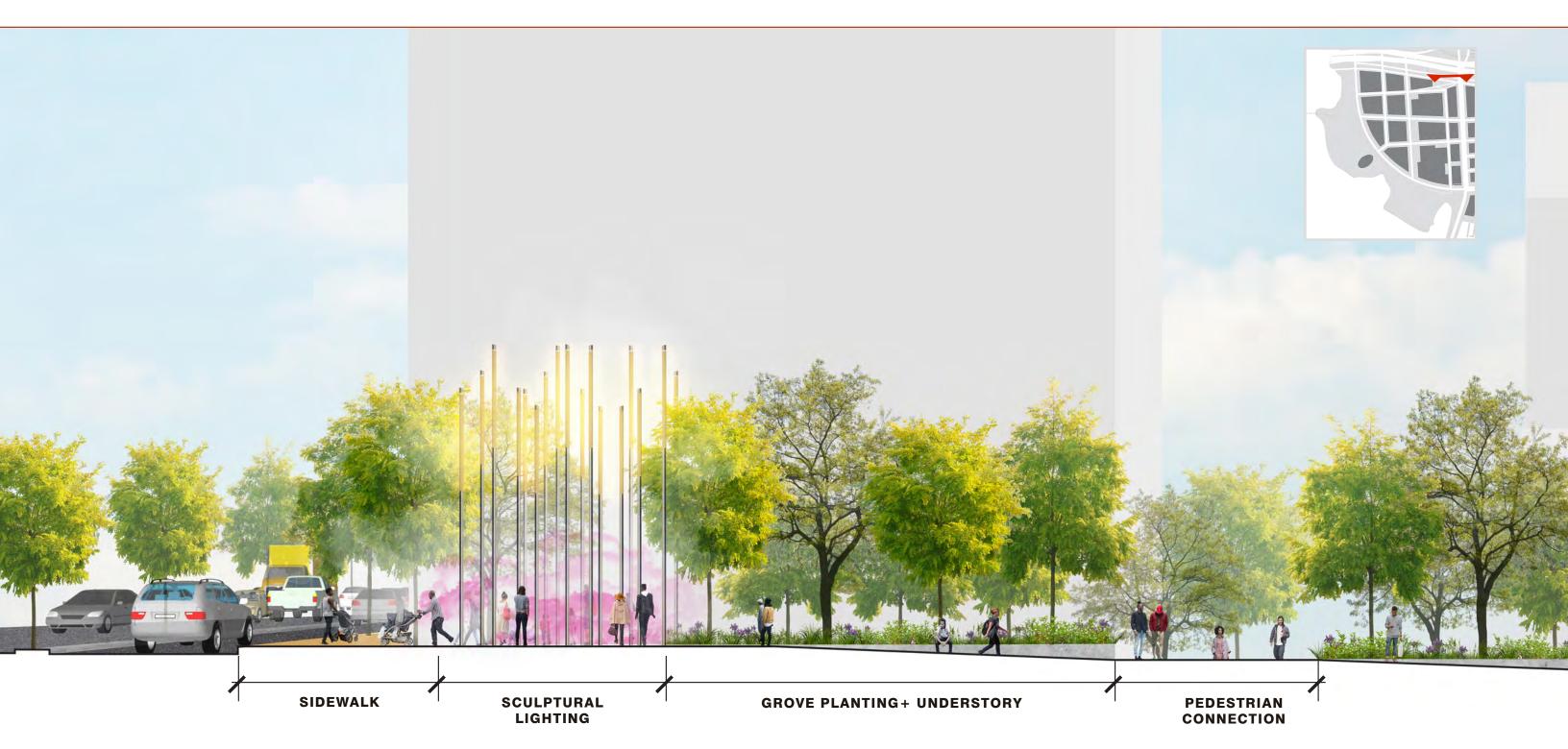
HANOVER STREET DISTRICT STREETSCAPE



HANOVER STREET DISTRICT GATEWAY - PLAN



HANOVER STREET DISTRICT GATEWAY SECTION



<u>0 8' 1</u>6'

HANOVER STREET DISTRICT GATEWAY BRIDGE



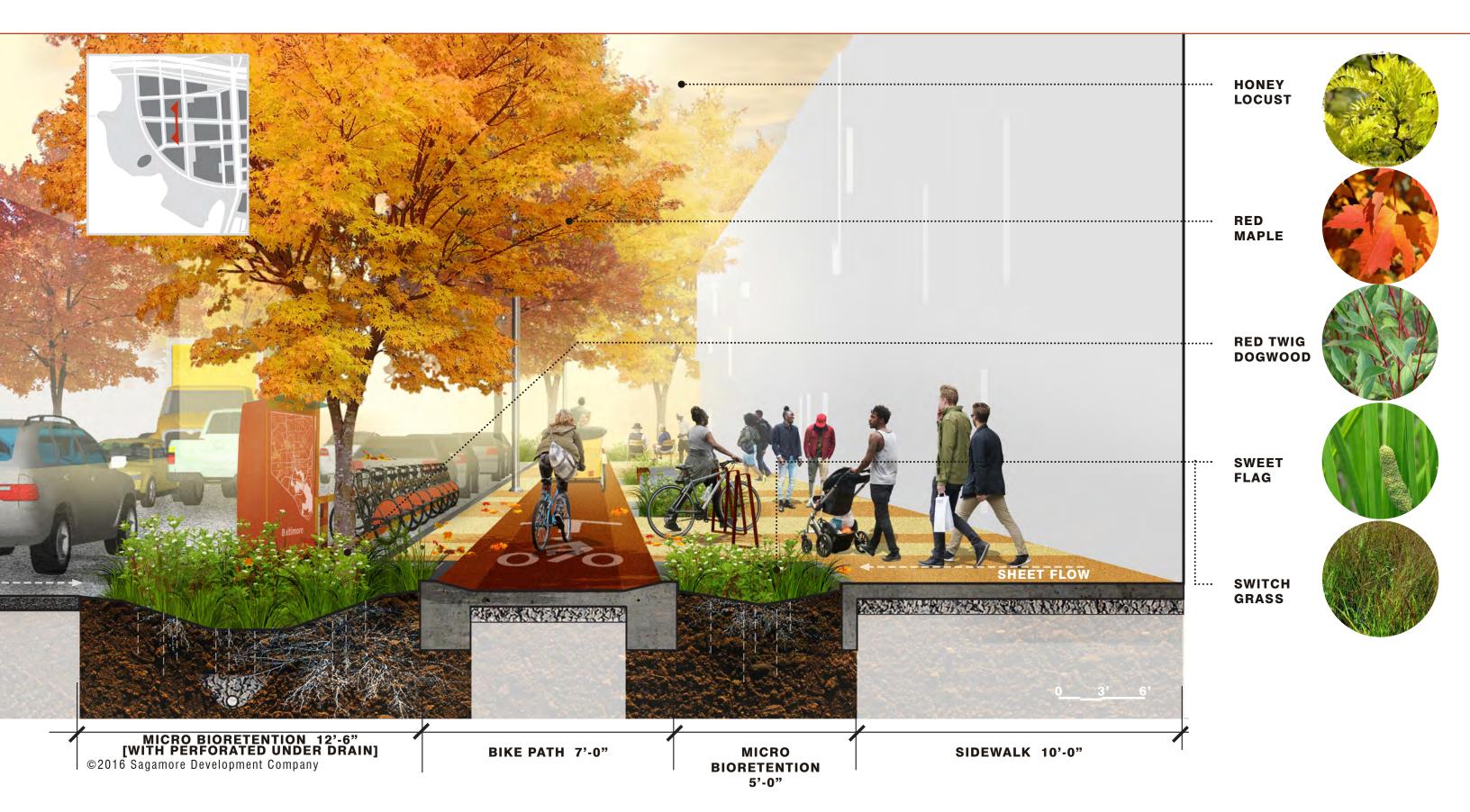
HANOVER STREET DISTRICT GATEWAY BRIDGE VIEW



WEST END DISTRICT PLAN



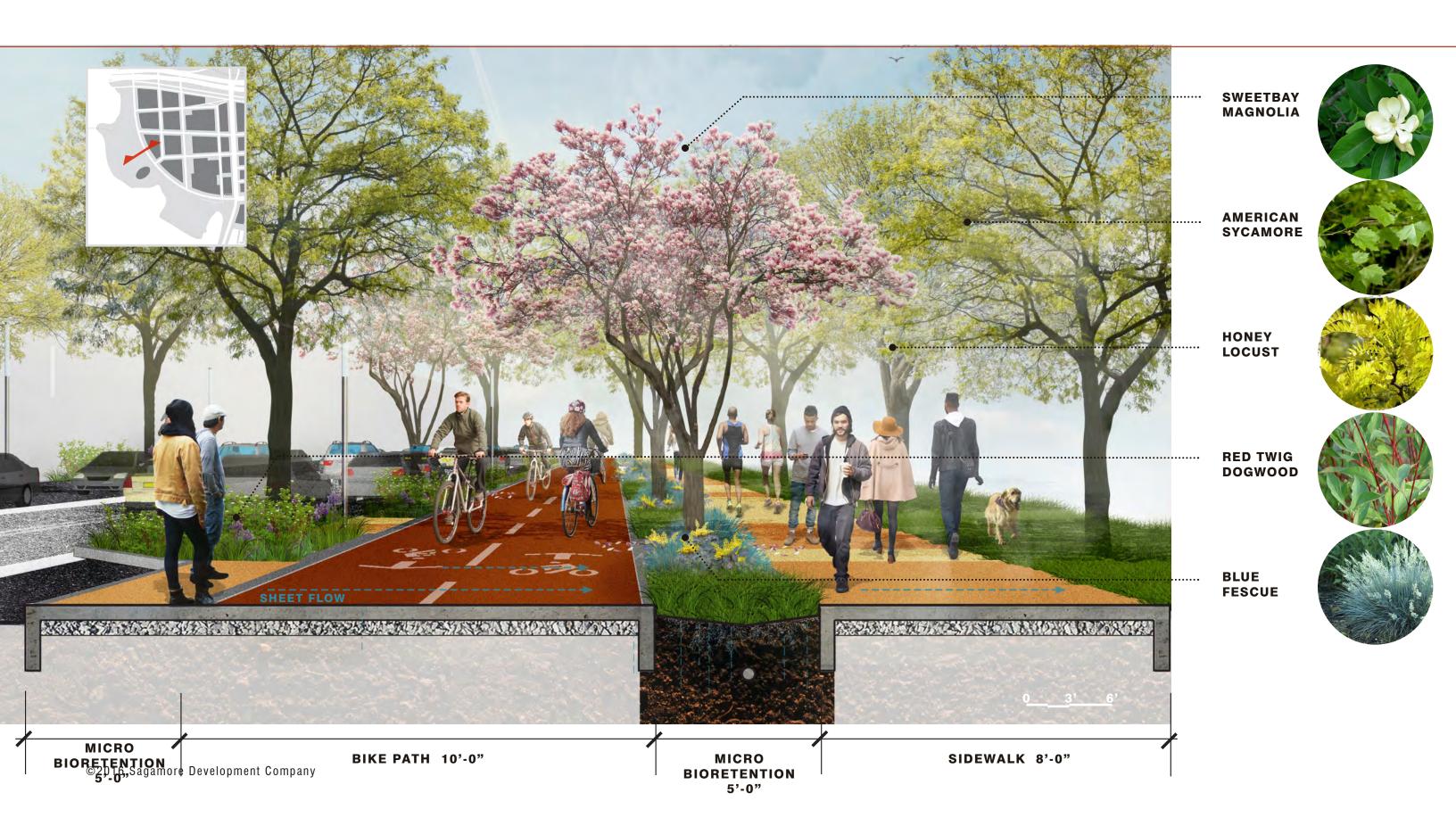
WEST END DISTRICT STREET 'A' SECTION



WEST END DISTRICT STREET 'B' SECTION



WEST END DISTRICT WEST CROMWELL STREET SECTION



WEST END DISTRICT SWING BRIDGE PERCH PLAN



WEST END DISTRICT SWING BRIDGE PERCH SECTION



WEST END DISTRICT WEST CROMWELL INTERSECTION



WEST END DISTRICT WEST CROMWELL INTERSECTION



WEST END DISTRICT BLACK STREET PLAN



WEST END DISTRICT BLACK STREET SUMMER







HANOVER STREET &

BARBARA MOSIER PE, PTOE

STV Inc. Traffic Engineer

RJ ELDRIDGE

Toole Design Group Chief Operating Officer

BICYCLE AND PEDESTRIAN NETWORK



BICYCLE AND PEDESTRIAN NETWORK MCCOMAS STREET SCARLET STREET MAGENTA STREET. - Blue Street -YELLOW STREET ₫ Ø GRAY STREET STREET RED STREET. HANOV LEGEND WEST CROMWELL STREET GREEN Shared Use Path **Protected Bicycle Lane Network** ••• Street Sidewalk Bicycle and Pedestrian Bridge Bike Share Station 0 100' 200' N MIDDLE **BRANCH** ©2016 Sagamore Development Company

TRANSIT CIRCULATION



TRANSIT CIRCULATION



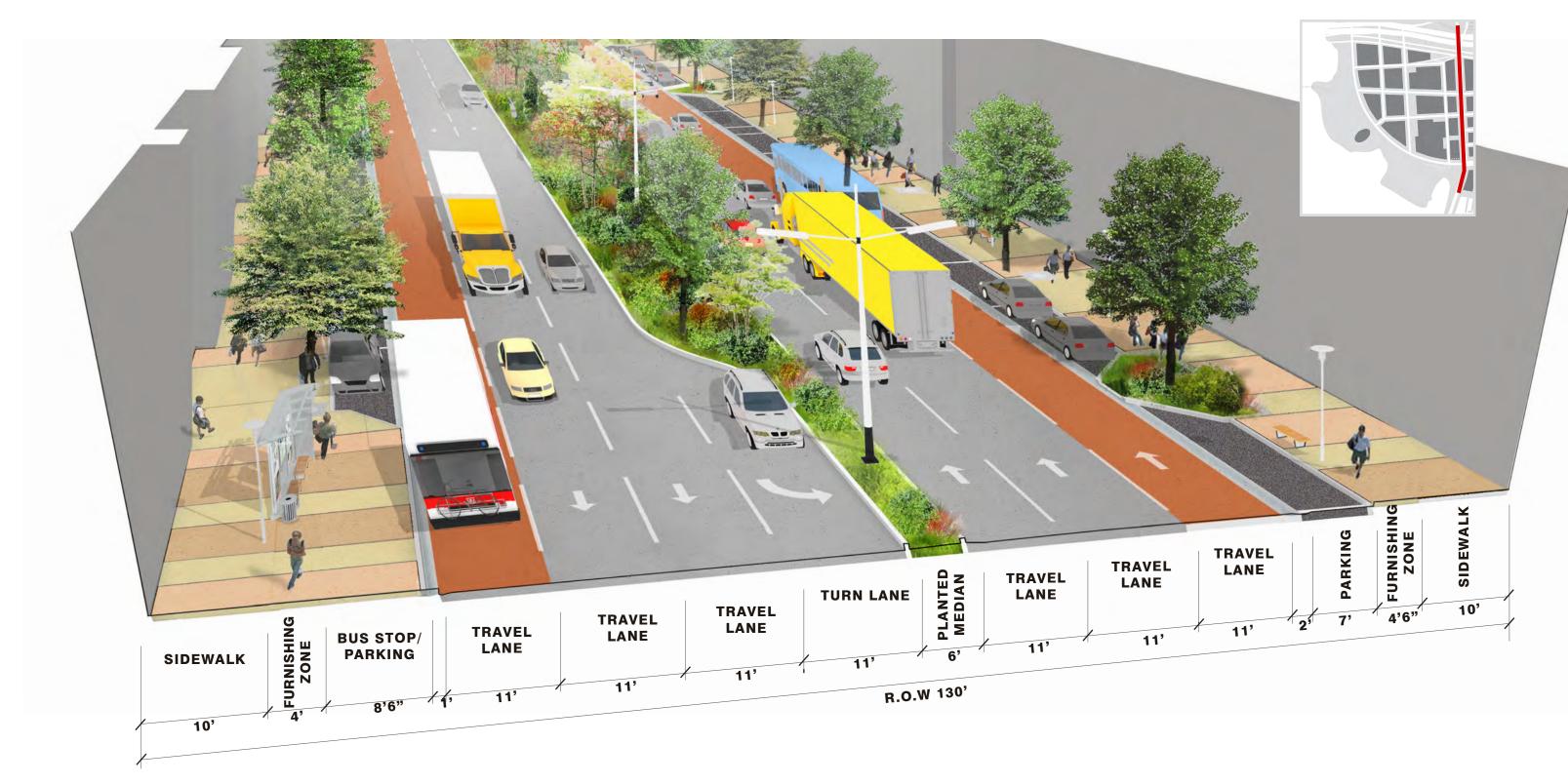
STREET TYPOLOGIES



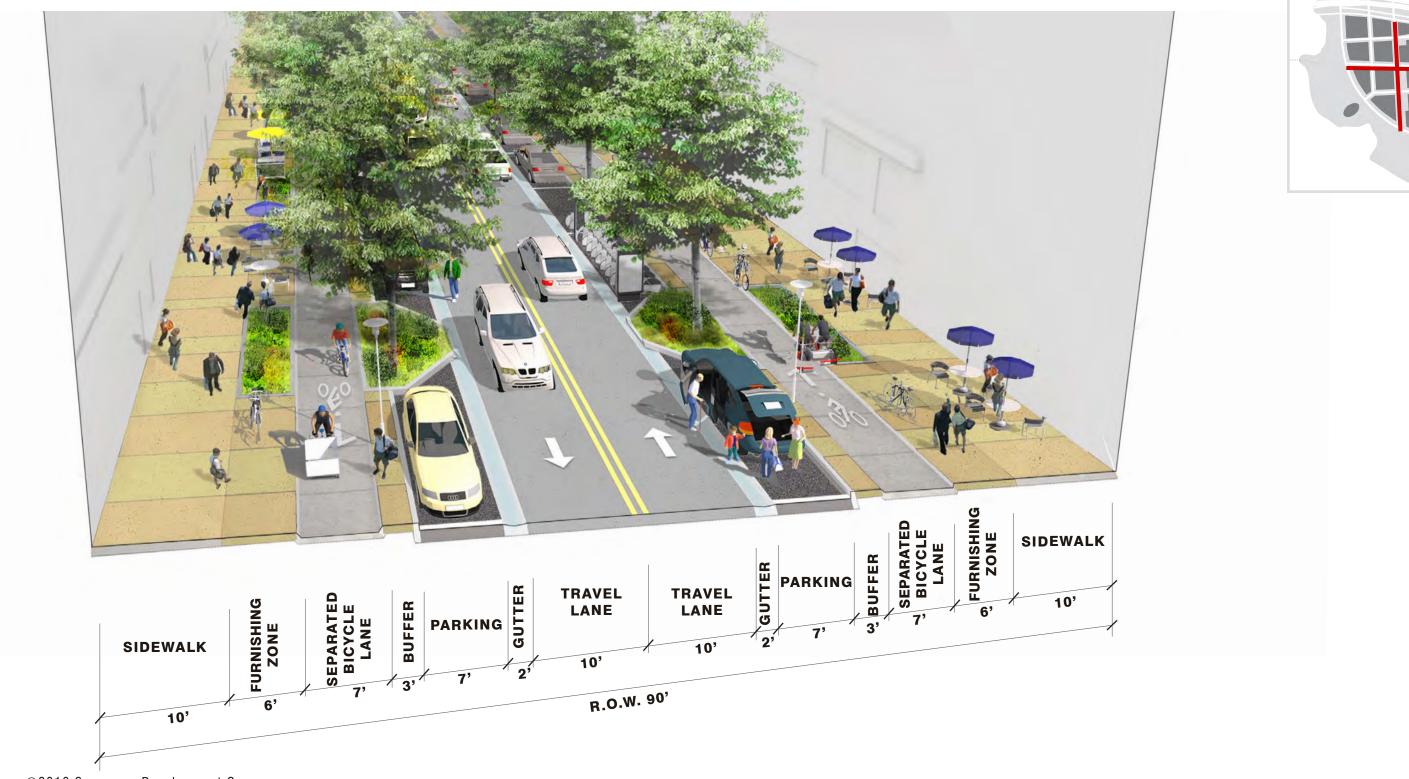
STREET TYPOLOGIES



HANOVER STREET

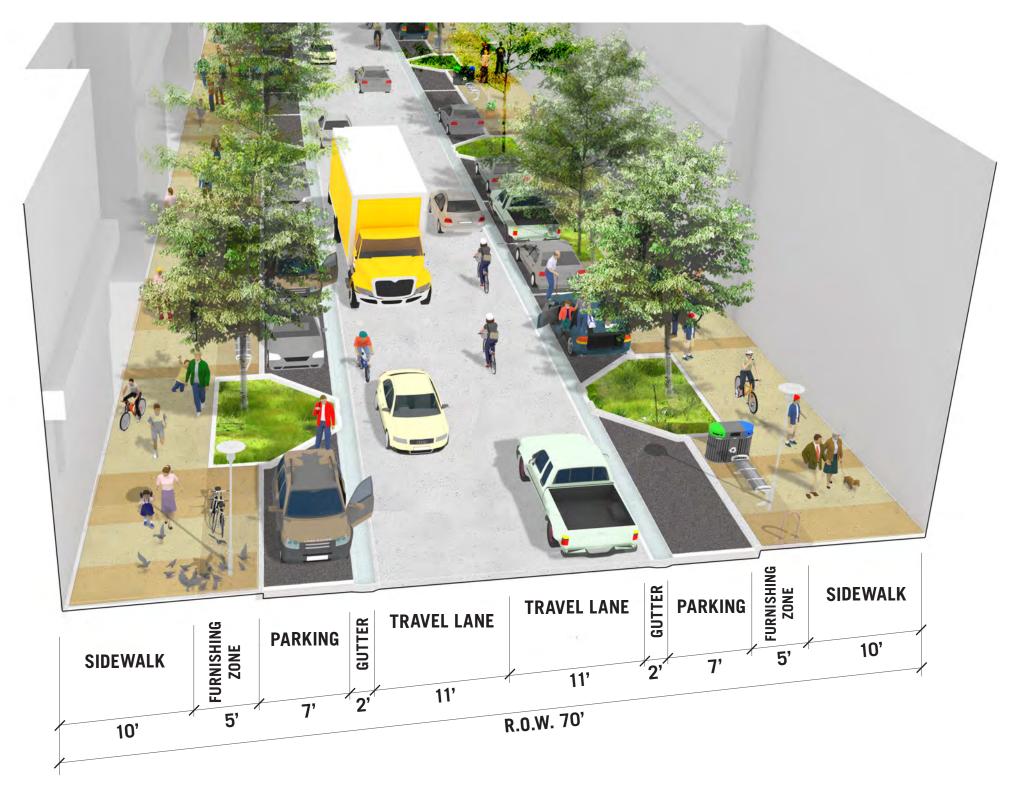


A STREET



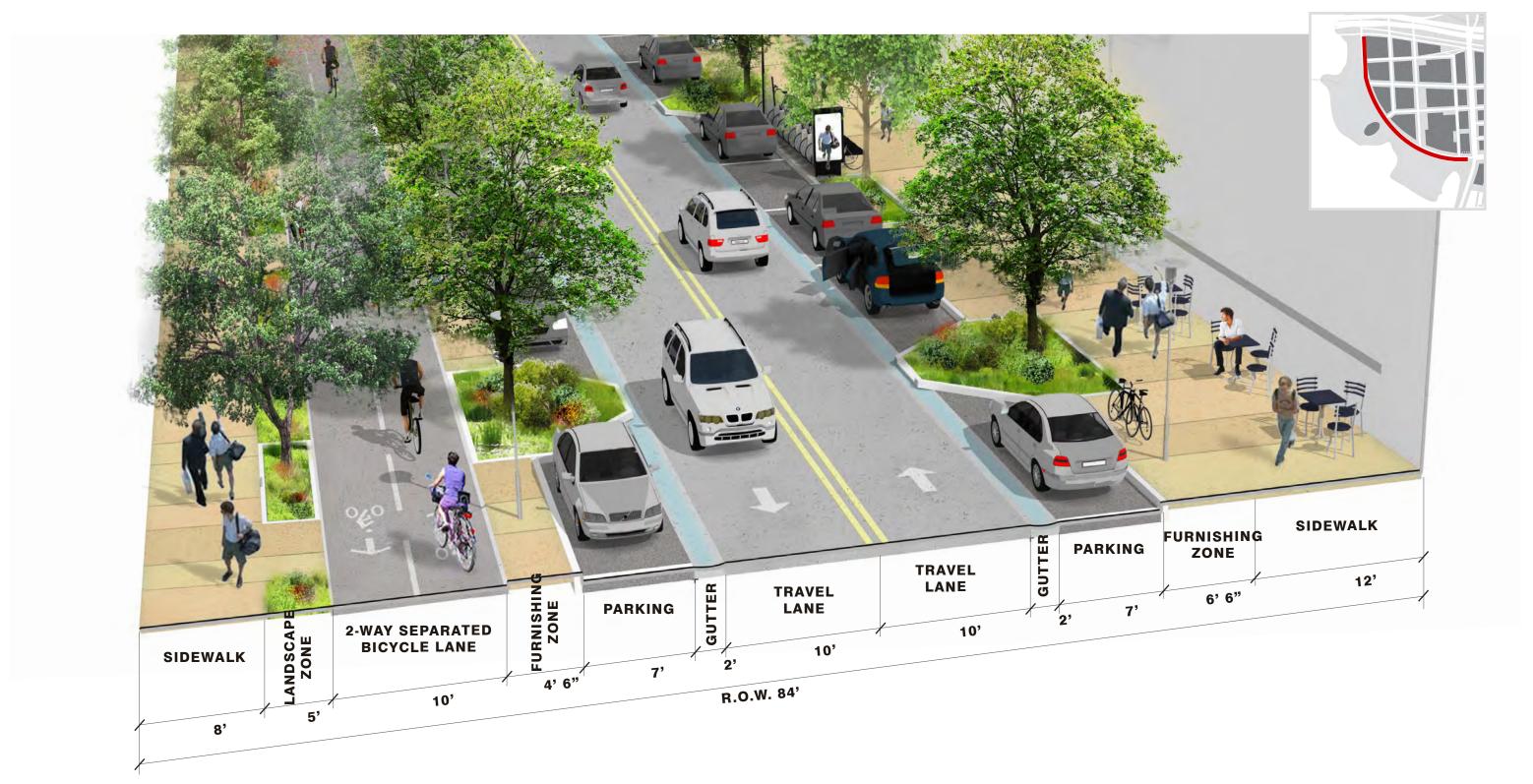
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B STREET

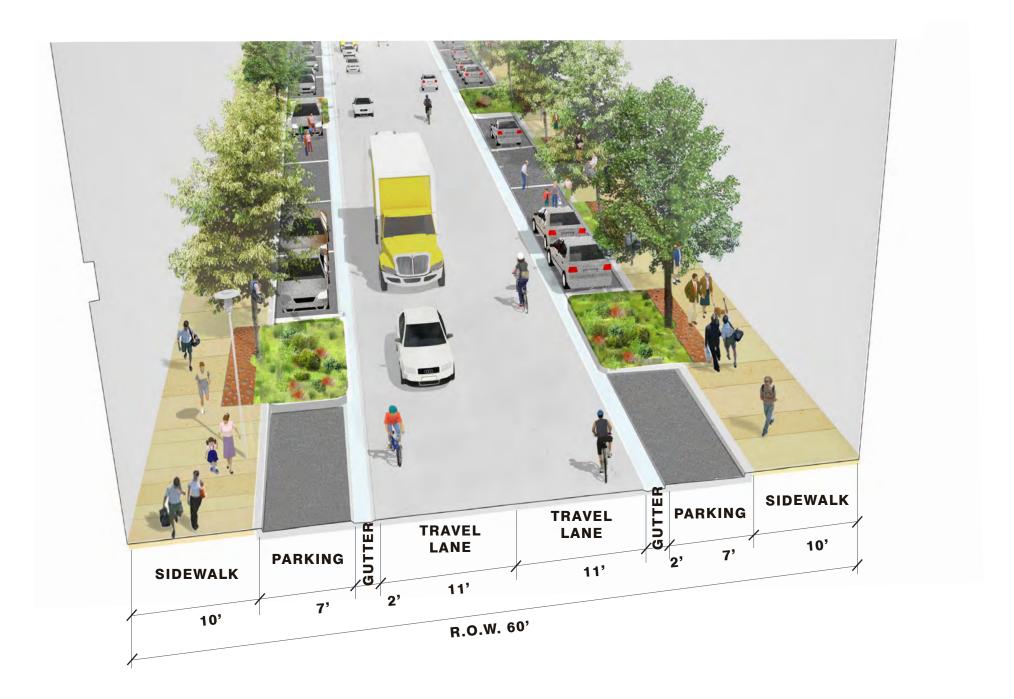


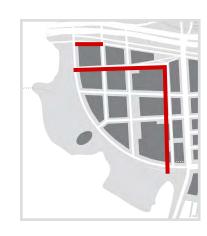


WEST CROMWELL STREET

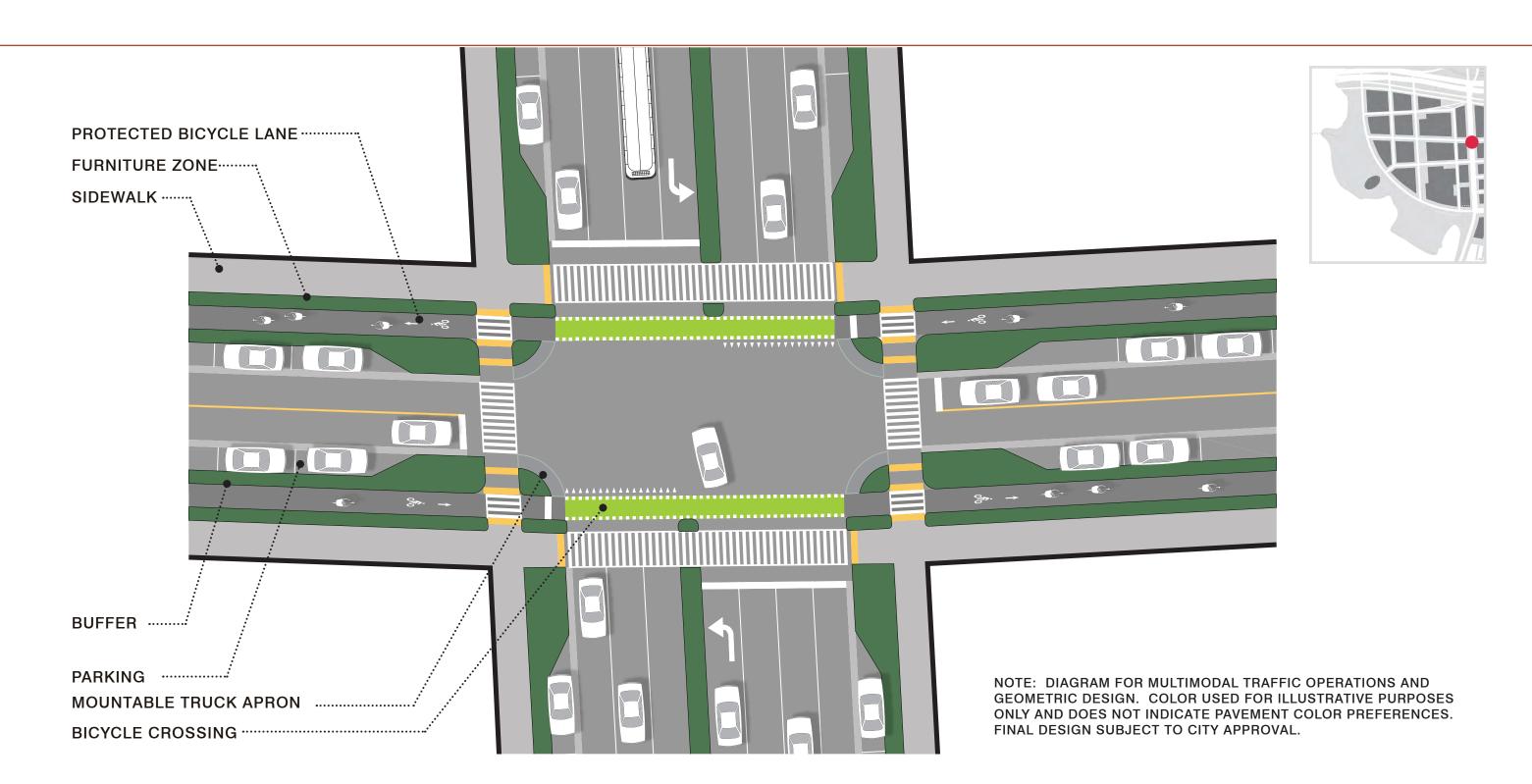


NARROW STREET

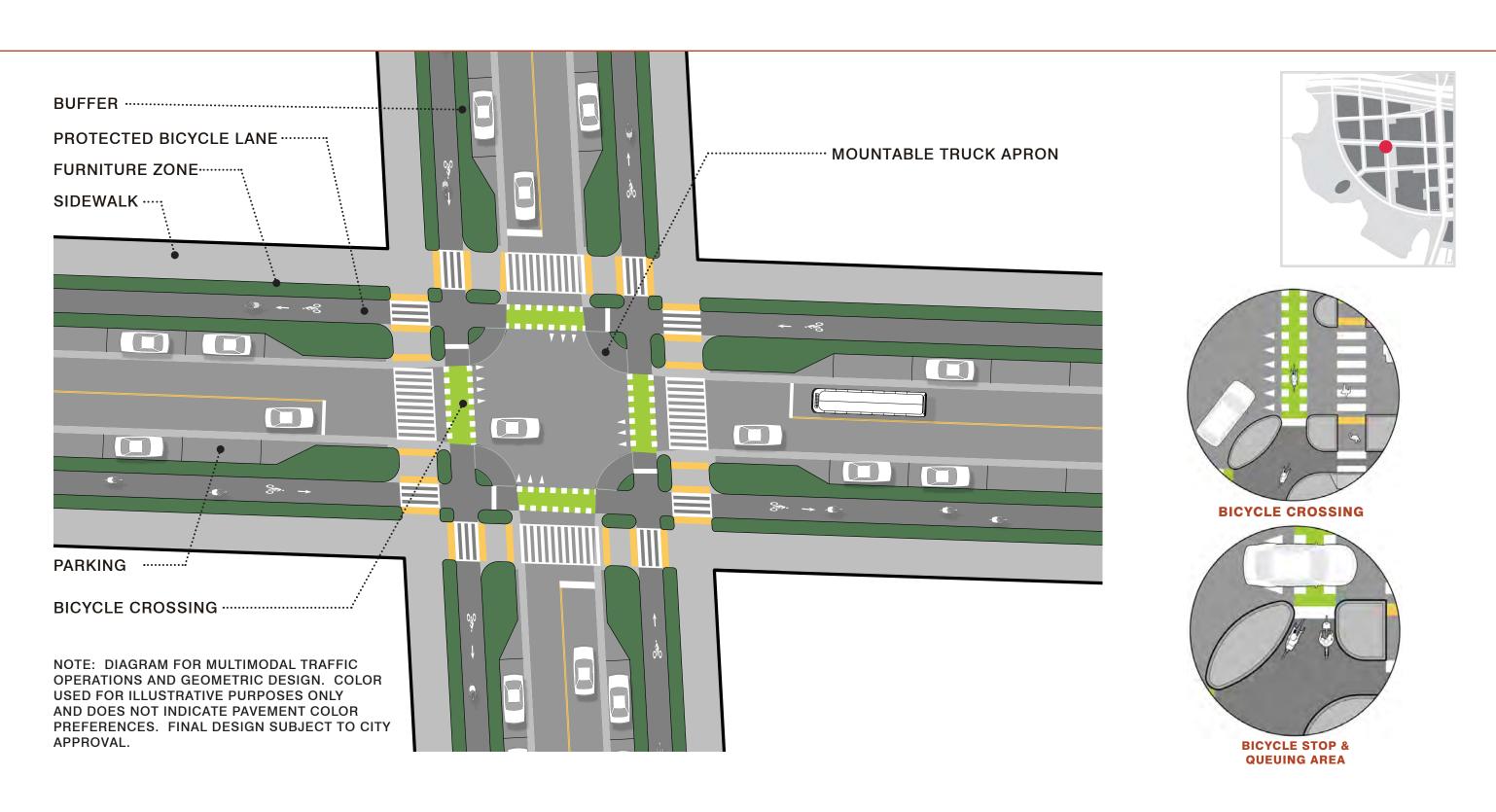




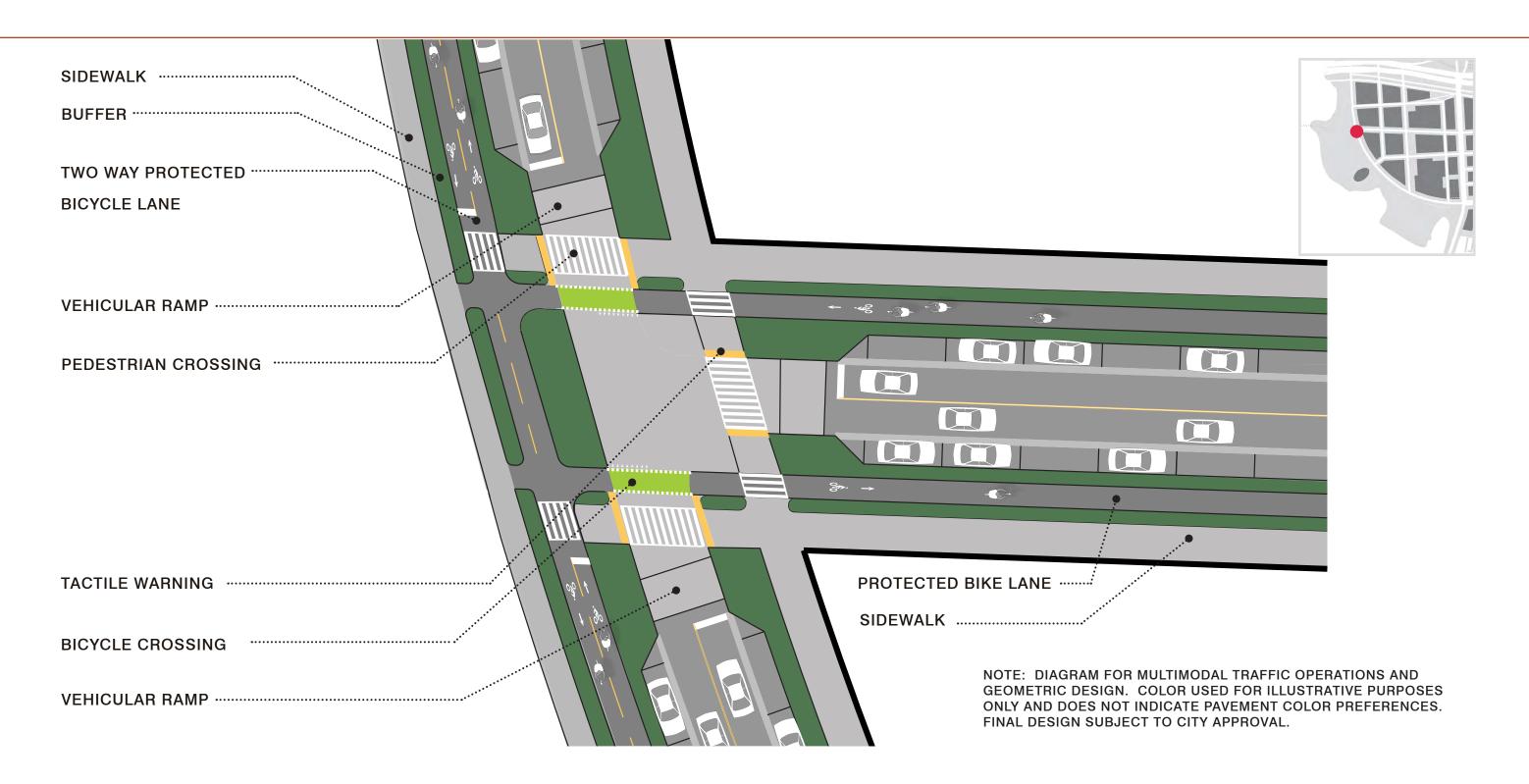
BLUE STREET AND HANOVER INTERSECTION



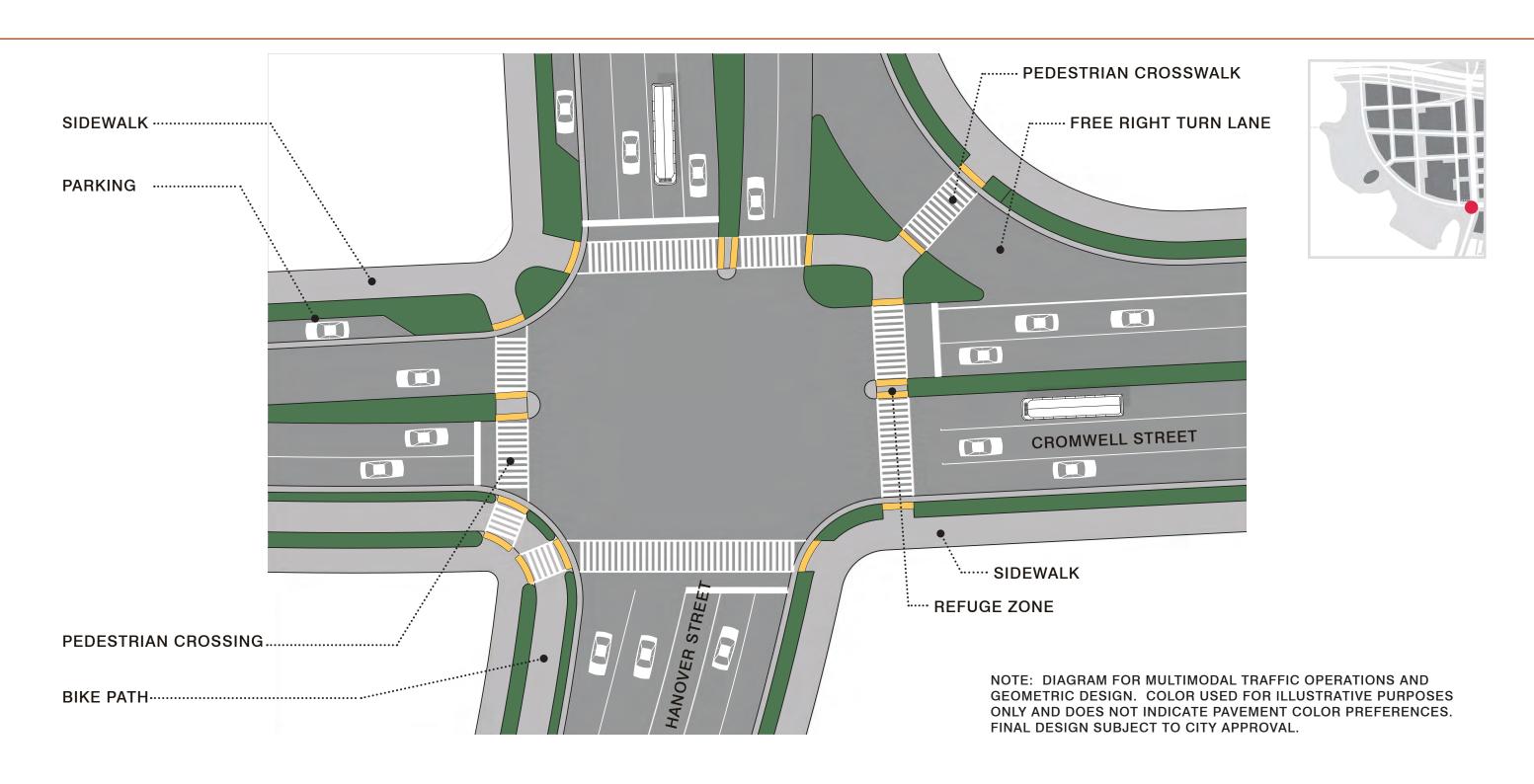
PROTECTED BIKE LANE INTERSECTION



BLUE STREET AND WEST CROMWELL INTERSECTION



HANOVER STREET AND CROMWELL INTERSECTION







THE NEXT GREAT BALTIMORE BENCH



FEBRUARY 29, 2016

www.promotionandarts.org







NEXT STEPS

Address panel comments

Continued District and Gateway Reviews

Phasing Plan

Comprehensive Plan

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

