2023 FIRST PRIZE

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Bel Air Forest

Application ID: LF-11342

The Narrative of Bel Air Forest:

The effects of the Black Butterfly have caused the massing of urban heat islands throughout Baltimore, establishing longterm effects on public and environmental health. Redlining has removed mass amounts of forest land within the city of Baltimore. What defines an urban forest? How can a forest be embodied within Baltimore? The narrative of Bel Air Forest establishes an Urban forest with the use of the cities forest program, spreading throughout the neighborhood from Old Town Mall. The urban forest challenges the existing grid by forming a new grid determined by a forest. Using the old commercial hub of Baltimore, Bel Air Forest provides a starting point for the reforestation of Baltimore.

Program for Bel Air Forest:

The Bel Air Forest program looks to restore Bel Air Market/ Old Town Mall alongside the city's goal of 40% canopy within Baltimore. Both elements would bring a pedestrian focus to the area, strengthening youth/community programs. The reforestation plan provides new job opportunities based around horticulture, agriculture, and forestry, expanding the existing forest over time. The job opportunities would include education-based programs, establishing a school within the area. The school would generate a research program that shows the effects of urban heat islands and reforestation within Baltimore. The school would be connected to a greenhouse and a community kitchen, working alongside the Baltimore Farmers Market.

History of Bel Air Market & Analysis of Old Town Mall



1818 1820s Two story row house The Bel Air Market was shops lined Gay Street, just constructed in 1818, having the area become north of Bel Air Market. the commercial center for Baltimore.



1869 Gay Street was mostly storefronts first-floor awnings that span the sidewalk.

1938 Businessmen formed a association, making improvements to Old parking. Town by widening Gay and Orleans street.

1883

1950 Interstate 83 finished A portion of the market construction, cutting was demolished for off the surrounding neighborhoods.

1964 The city banned open air vendors along the streets surrounding the Bel Air Market.

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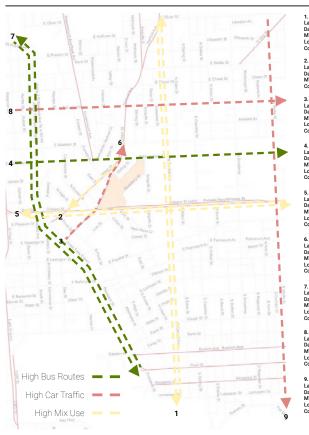
1970s Old Town Mall was created by closing Gay Street and building around pedestrian walkway.

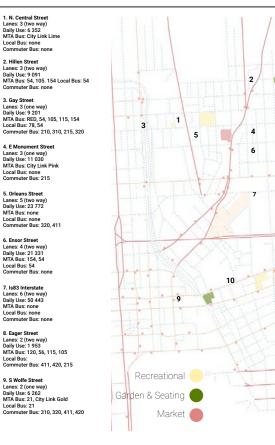
Today Today, the Farmers The Bel Air Market Market is located

under Interstate 83.

1990s

closed altogether.





1. Johnston Square Park 1.2 Hectares Recreational, linked to School Basketball Court & Square Mound 2. Caroline & Hoffman Park 0.43 Hectares Recreational Basketball & Tennis Court 3. Brentwood Village Playground 0.08 Hectares Recreational Kids Playground 4. Madison Square Park 1.75 Hectares Recreational Features: Baseball Diamond & Tree Line 5. Ambrose Kennedy Park

1.75 Hectares Recreational & Market Swimming Pool & Basketball Court

6. Eden & Eager Park 0.24 Hectares Recreational & Seating Basketball Court

7. Chick Webb Recreation Center & Pool 0.41 Hectares Recreational Basketball Court & Indoor Pool

8. Eager Park 2.1 Hectares Recreational & Open Space Kids Playground & Local Garder

9. Caroline & Hoffman Park 0.6 Hectares Seating & Gathering Space Shaded Area & Garden

10. Mckim Park 0.39 Hectares Recreational Basketball Court & Kids Playground

11. City Springs Park 1.75 Hectares Recreational & Gardening Features: Soccer Field & Community Garden

12. The Betty Hyatt Community Park

0.8 Hectares Recreational Kids Playground & Basketball Court With the commuter routes going around Old Town Mall, the buses are limited to 310, 320 routes. The lane use for the amount of people that pass through the space is too much, only having 23 772 on Orleans Street. With no MTA or local buses on Orleans street, it indicates high car traffic.

The largest greenspace is Eager Park and sits along N Wolfe Street. The park has no form of canopy, creating an undesirable space during the summer.

The greenspaces and schools connecting to Old Town Mall provide a halfway point for the surrounding area to meet. Without Old Town Mall, a void is created between the spaces, strengthening the spatial divide between the surrounding communities





Reforestation Plan:

The reforestation plan would impose 3 separate grids over Old Town Mall, creating a greater focus on pedestrian use. The different levels of canopy would reduce the vehicular use to one-lane, providing breathing room for both the forest and pedestrians. The forest canopy grid would use the existing dimensions for Baltimore reforestation plan, spacing trees 4.5 m apart. The second and third grid would create density and generate different spatial programs throughout the site.



Grid: Old Town Spread: 8 m Spacing: 4.5 m

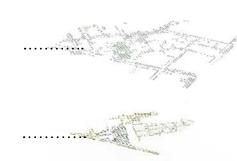


Mid-story Canopy

Grid: City Spread: 6 m Spacing: 2 m

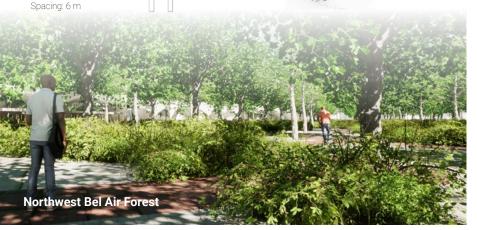
Underforest

Grid: Old Town Width: 1.5 m Spacing: None





Width: 2 m





and reforestation guide, working with the dimension of the gird.

Zone	Forest	Common Name	Latino Name	Spread (ft)	Mid-Story	Common Name	Latino Name	Spread (ft)
Streetscape		Pin Oak Red Maple River Birch	Quercus palustris Acer rubrum Betula nigra	(25-40) (25-35) (25-35)		Allegheny Serviceberry American Hornbeam Shangtung Maple	Amelanchier laevis Carpinus caroliniana Acer truncatum	(15 - 40) (20 - 30) (20 - 25)
Old Town Mall		Korean Evoda American Hornbeam	Tetradium danielli Carpinus caroliniana	(25 - 30) (20 - 35)		Japanese Tree Lilac	Syringa reticulata	(15 - 18)
Bel Air Pavilion		Willow Oak American Hophornbeam American Yellowwood Black Gum	Quercus phellos Ostrya virginiana Cladrastis kentukea Nyssa sylvatica	(30 - 40) (25 - 30) (25 - 35) (20 - 30)		Japanese Snowball Okame Cherry Flowering Purple Plum Sargent Cherry	Styrax japonicus Prunus x incamp Prunus censifera Prunus sargentii	(20 - 30) (15 - 20) (15 - 20) (15 - 20)
Bel Air Market		Bald Cypress	Taxodium distchum	(25)		Sweetbay Magnolia	Magnolia virginiana	(15-25)

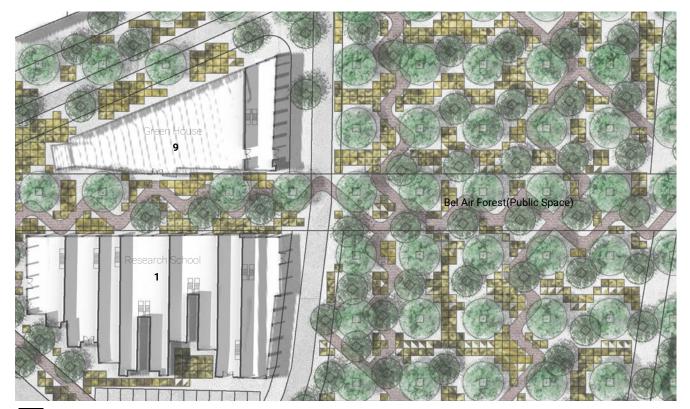
Reforestation Planting Plan

Building Set	Building Number	Floors	Building Use	Square Footage 54 ft ² 151 ft ² 108 ft ² 151 ft ² 140 ft ² 86 ft ² 140 ft ² 97 ft ² 118 ft ²	
1	1) 2) 3) 4-5) 6) 7) 8-9) 10) 11)	33344443	School / Research School / Research		
2	12) 13) 14) 15)	3 3 2 2	Library Apartments Apartments Coffee Shop / Apartments	215 ft² 226 ft² 86 ft² 215 ft²	
3	16) 17) 18-20) 21)	2 4 3 2	Restaurant / Apartments Apartments Apartments Restaurant / Apartments	151 ft² 151 ft² 151 ft² 151 ft² 172 ft²	
4	22) 23) 24) 25) 26)	2 6 5 4 2	Restaurant / Apartments Existing Apartments Apartments Restaurant / Apartments	75 ft² 753 ft² 75 ft² 75 ft² 65 ft²	
5	27) 28) 29) 30 - 38) 39)	54333	Grocery / Office Space Grocery / Office Space Coffee Shop / Office Space Local Shops / Office Space Local Shops / Office Space	419 ft² 409 ft² 86 ft² 32 ft² 43 ft²	
6	40) 411 422 43-44) 451 460 477 48-50) 51-53 51-53 551 560 557 588 599	2 2 3 3 2 2 3 3 2 2 3 4 4 3	Physical Health Care Facility Physical Health Care Facility Pharmacy Apartments / Local Shop Apartments / Local Shop	75 ft² 101 ft² 215 ft² 32 ft² 32 ft² 43 ft² 54 ft² 97 ft² 97 ft² 97 ft² 54 ft² 54 ft² 188 ft² 188 ft² 108 ft²	
7	60) 61) 62) 63) 64) 65) 66) 677 68) 69) 70) 71)	2 3 3 4 4 4 4 3 4 4 3 2	Restaurant / Apartments Local Shops / Apartments	86 ft ² 86 ft ² 129 ft ² 75 ft ² 75 ft ² 75 ft ² 75 ft ² 65 ft ² 65 ft ² 65 ft ² 215 ft ²	
8	72) 73) 74) 75) 76) 77)	2 3 4 3 3 3	Local Shops / Apartments Local Shops / Apartments Local Shops / Apartments Local Shops / Apartments Local Shops / Apartments Restaurant / Apartments	54 ft ² 215 ft ² 65 ft ² 65 ft ² 65 ft ² 269 ft ²	
9	78) 79)	3	Greenhouse Community Kitchen	517 ft² 248 ft²	

Old Town Mall Restoration:

The restoration of Old Town Mall would reintroduce the core form of the Bel Air Market The reintroduction of the built form from 1870, existing context, and the Reforestation grid; provided a sequenced spatial program, forming one identity. The spatial program was determined by the Reforestation grid, having the built form and use complementing the forest identity. For example, courtyards developed between buildings, allowed the forms facing into the space to become restaurants and coffee shops, utilizing the mid-story canopy as gathering spaces. Another example would be the corner of the site, creating an educational and research space that utilized the streetscape and open forest.



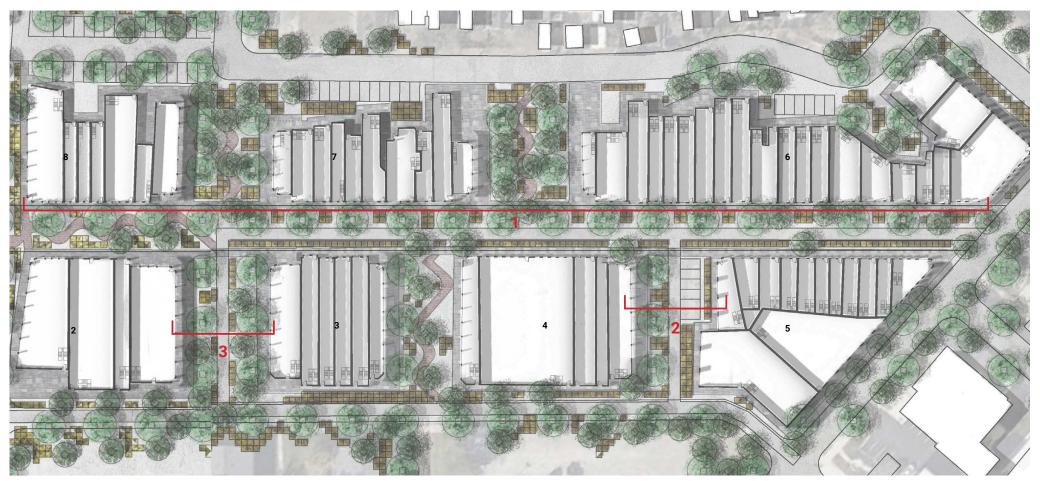


40ft

Old Town Mall School & Public Space



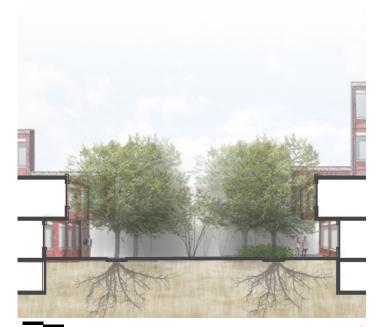
Old Town Mall Facade Articulation 1



Old Town Mall Residential & Commercial Space

40ft

Of



Courtyard Between Building Set 2 & 3 3



Courtyard Between Building Set 4 & 5 2

Courtyard Gathering Space View

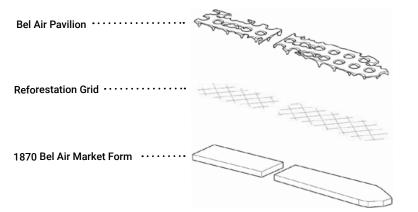


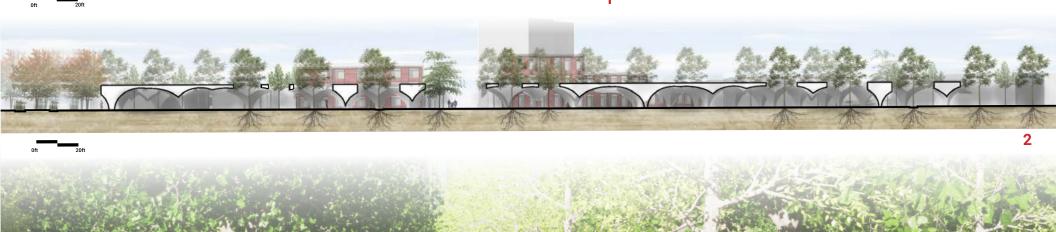
Bel Air Market Restoration:

Restoring Bel Air Market would place a pavilion onto the 1870 farmers market site. The structure would be influenced by the reforestation plan, integrating the grid into the form. The Bel Air Pavilion would look to strength the site lines, having the form carved out by the forest grid system. Th pavilion would provide space for the existing farmers market underneath the 83 Express Way and other events by the community.









Bel Air Forest View of Pavilion

Bel Air Pavilion Interior:

The interior of Bel Air Pavilion provides for numerous market stalls, creating a sense of enclosure from the surrounding Bel Air Forest. Rain runoff would feed into the roof using the water retention plan built into the columns, maintaining precipitation on warmer days. During the colder seasons, with the support of Bel Air Forest, the pavilion would provide protection from the winter winds. The pavilion when not in use from the markets provides a gathering space for other public interests such as concerts or public art displays.

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