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OFFICE OF THE PURCHASING AGENT

TOWN OF ARLINGTON 730 Massachusetts Avenue Arlington, MA 02476

Telephone (781) 316-3003 Fax (781) 316-3019

DATE: July 11, 2019

TO ALL BIDDERS

BID NO. 19-36

SUBJECT: Landscape Design Services/Whittemore Park

Revitalization Project, Phase 1

ADDENDUM NO. 1

TO WHOM IT MAY CONCERN:

With reference to the bid request relative to the above subject, please note the following:

ATTACHED WHITTEMORE PARK CONCEPTUAL PLAN.

ATTACHED WHITTEMORE PARK PHASE 1 AMENDED BUDGET.

ADDENDUM MUST BE ACKNOWLEDGED WITH BID SUBMISSION.

All other terms, conditions and specifications remain unchanged.

Very truly yours,

Town of Arlington

Domenic R. Lanzillotti Purchasing Officer

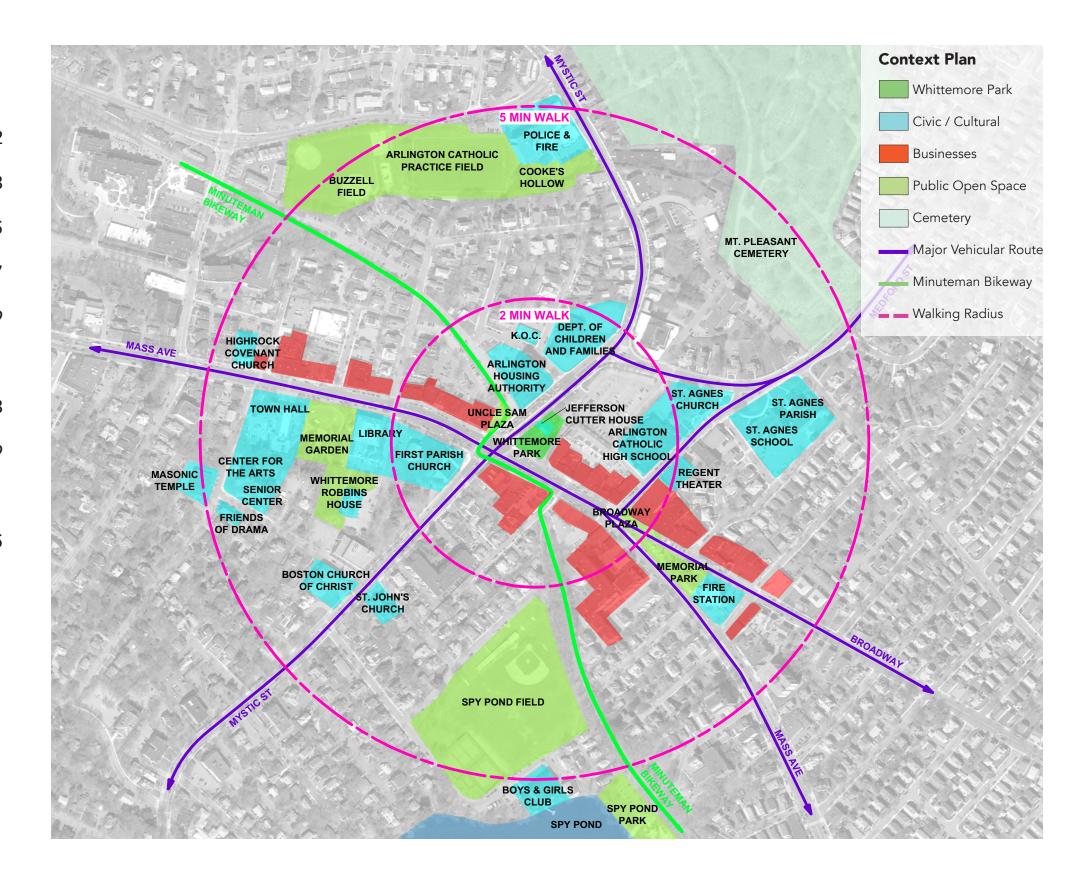
Cost EstimatePhase 1					
Site Prep & Demolition	Item	Quantity		Unit Price	Cost
	Strip and stockpile front lawn	9105	SF	\$2.00	\$18,210.00
	Remove brick paths in front lawn	2644		\$10.00	
	Remove granite curb around tracks	216		\$25.00	\$5,400.00
	Remove granite post and steel rail fence	374	LF	\$10.00	\$3,740.00
	Remove wood picket fence	130	LF	\$10.00	\$1,300.00
	Remove bench	6	EA	\$150.00	\$900.00
	Remove trash barrel	4	EA	\$100.00	\$400.00
	Remove post light	4	EA	\$800.00	\$3,200.00
	Remove wood signs	5	EA	\$100.00	\$500.00
	Remove electrical box	1	EA	\$800.00	\$800.00
	Remove and salvage memorial boulder	1	EA	\$3,800.00	\$3,800.00
	Tree pruning and root invigoration	1	LS	\$15,790.00	\$15,790.00
	Tree protection	1	LS	\$3,000.00	
	Rough grading	180	CY	\$35.00	\$6,300.00
	Survey	1	LS	\$9,500.00	
	Temporary barriers and protection	1	LS	\$11,500.00	
					\$110,780.00
New Work	Restore segment of rail corridor	1	LS	\$10,000.00	\$10,000.00
	Replace wooden rail ties	3	EA	\$900.00	\$2,700.00
	Replace ballast with stone dust	658	SF	\$7.00	\$4,606.00
	Prep planting beds	2962	SF	\$2.00	\$5,924.00
	Exposed aggregate concrete path	3039	SF	\$12.00	\$36,468.00
	Concrete seat wall	60	LF	\$690.00	
	Granite curb	153	LF	\$38.00	\$5,814.00
	Freestanding bench	6	EA	\$1,833.33	\$11,000.00
	Post light	7	EA	\$3,800.00	\$26,600.00
	Conduit for wiring and post lights	840	LF	\$38.00	\$31,920.00
	Temporary barriers and protection	1	LS	\$20,410.00	\$20,410.00
					\$196,842.00
Planting	Sod	5691	SF	\$300.00	\$17,073.00
	Groundcover, 4" pot	1834	EA	\$8.00	
	Shrubs, 3' height	112	EA	\$60.00	
	Tree, 4" caliper	5	EA	\$1,900.00	\$9,500.00
	Understory tree, 12-15' high	2	EA	\$1,800.00	
	Soil for sod	152	CY	\$60.00	
	Soil for groundcover	37	CY	\$60.00	\$2,220.00
	Soil for shrubs	224	CY	\$75.00	
	Soil for trees	28	CY	\$75.00	
	Irrigation expansion/modification		LS	\$5,050.00	\$5,050.00
					\$86,855.00
					\$394,477.00
Fees					
	10% Construction contingency				\$39,447.70
	15% General contractor/conditions				\$59,171.55
					\$493,096.25
	12% Design fee				\$59,171.55
TOTAL					\$552,267.80





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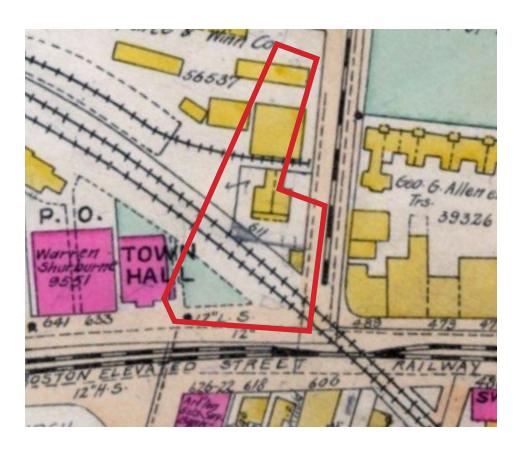
Site Context

Whittemore Park, located at the corner of Mass Ave and Mystic St, was initially created when the Jefferson Cutter House was moved to the site in 1989. The park also features a small section of railroad track, which is the remains of a railroad line built around 1846.

The Jefferson Cutter house was added to the National Register of Historic Places in 1992 for its "association with one of Arlington's founding families", and as a "distinguished example of early 19th-century domestic architecture." The nomination also made note of the rail tracks as a contributing resource, adding to the overall historic significance of the site.

Today the site occupies an important location at the crossroads of the town's central business district, seat of government, and in the heart of its cultural district. The park is currently used to host a number of community and art-related events throughout the year and the parking lot behind the site is used for the weekly Farmer's Market during the growing season.

The Jefferson Cutter House is home to the Cyrus Dallin Museum, the Cutter Gallery, and the Arlington Chamber of Commerce.



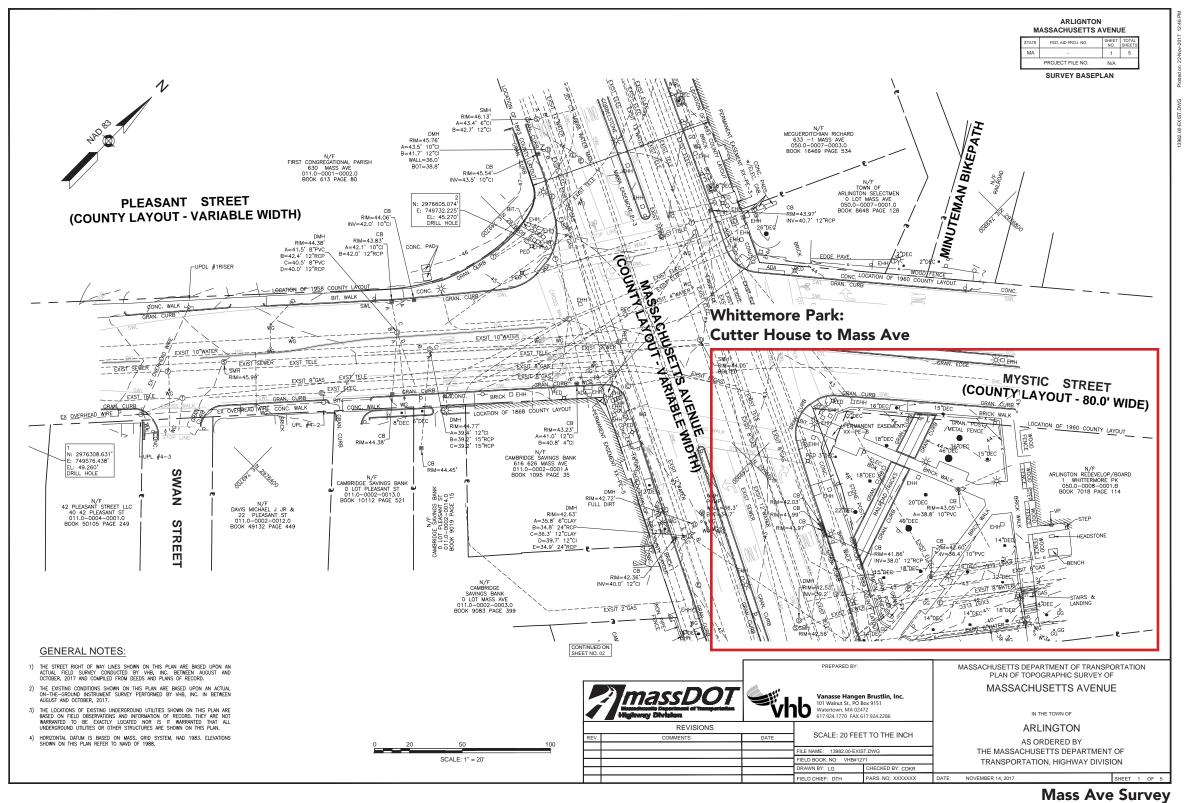




1875 → 1969 → 1989

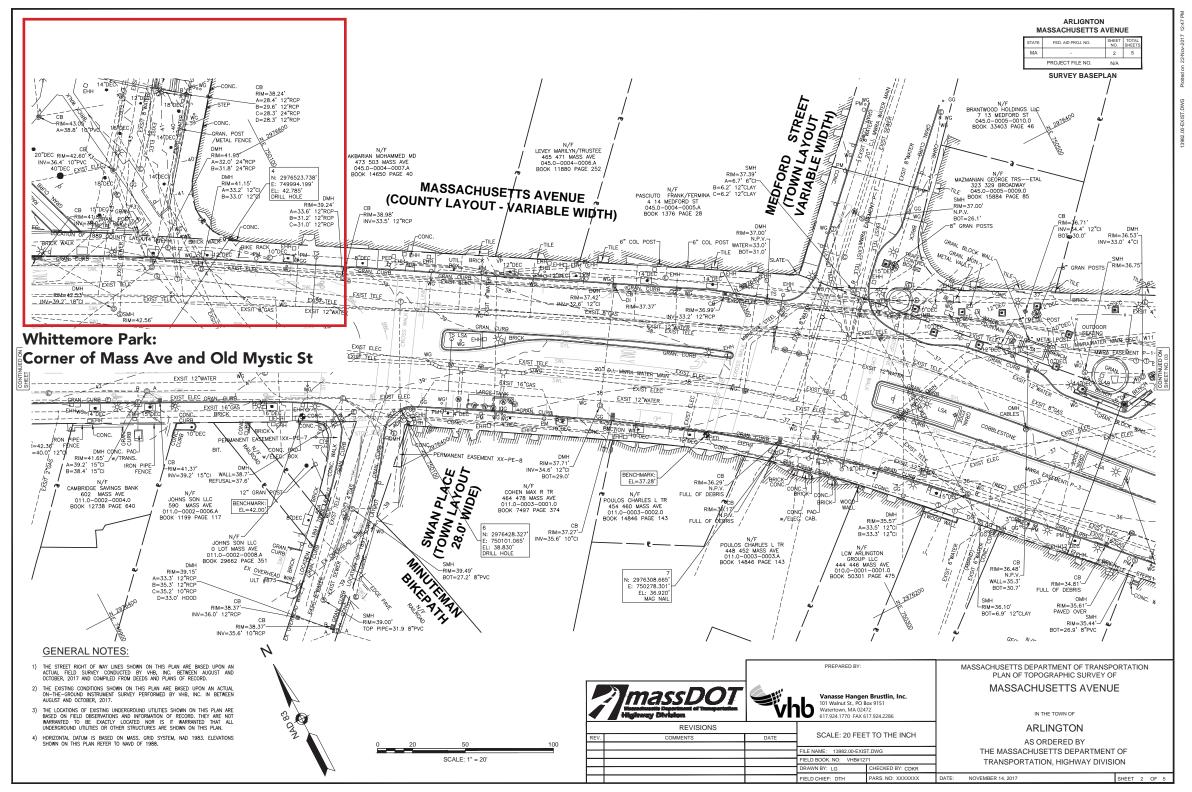
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Site Survey





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Mass Ave Survey

Existing Site Conditions

The most prominent feature in the park is the stretch of remnant railroad tracks comprised of metal rails, wood ties, and gravel surfacing in fair condition. The tracks are retained by granite curbs and sit below the level of the rest of the park. The park is surrounded by a granite pier and metal rail fence, which is in poor condition. The lawn throughout the site is in poor condition due to overuse and competition with over-mature trees. As a result, much of the site is exposed or eroding soil. The crossing brick paths are heaving and deteriorating in areas. The park is mostly flat but slopes down fairly sharply at the east corner, where the grade is held back by multiple retaining walls. The Cutter House is separated from the park by a wooden fence that is in poor condition. The sideyard gardens to the house are overgrown and provide little gathering opportunity.













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Existing Site Plan

С

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Site Analysis

Slope Diagram

Accessible Slope (0-5%)

Inaccessible Slope (5-10%)

Steep Slope (10-25%)

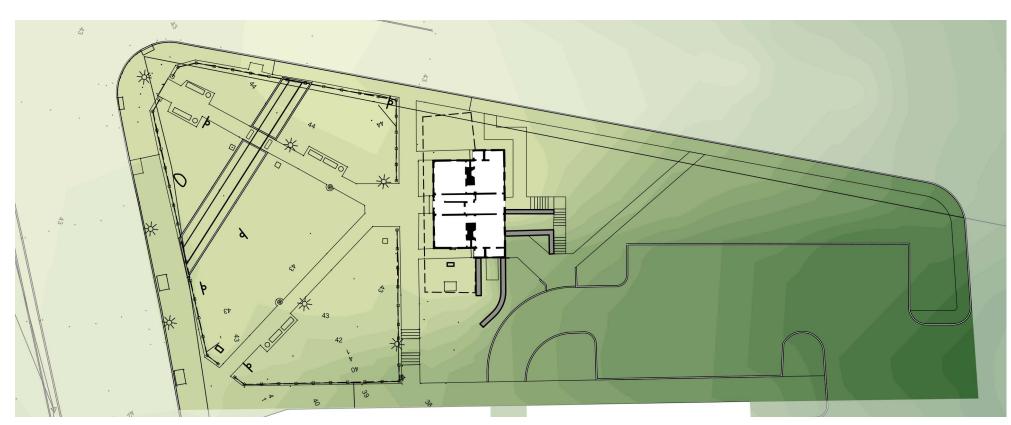
Very Steep Slope (>25%)



Elevation Diagram

Highest Point

Lowest Point





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Movement

Walking Route in Park

Walking Route with Accessibility Barriers •-----

Walking Route Outside Park

Bike Route

Gathering Space

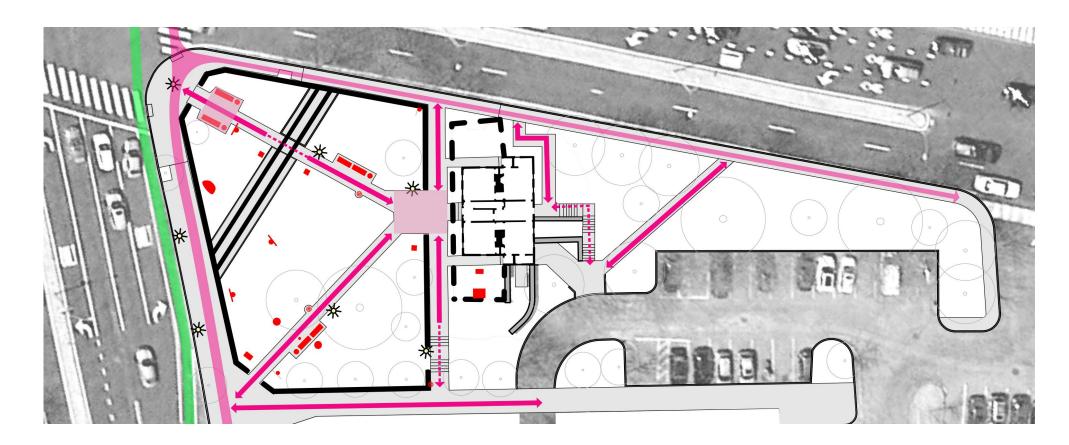
Barriers

Granite Post and Rail Fence ____

Wood Fence ___

Rail Tracks ____

Structures ____



Canopy Quality

Very Good

Good

Fair

Poor

Failing ____



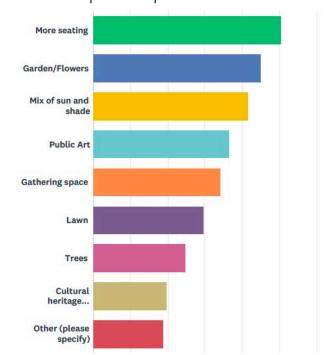


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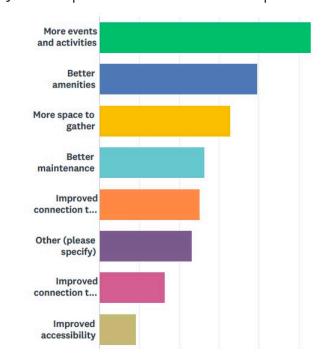
Public Process

The public was engaged at key milestones throughtout the conceptual design process. Both traditional public forums and non-traditional engagement events were used to gather information about the site and to solicit feedback on design options. The non-traditional engagemet included a drop-in style Open House where designers listened to residents discuss the existing site, an online opinion survey, and a Design Day where the designers and community met in Whittemore Park to walk through proposed options.

What amenities would you most like in the improved park?

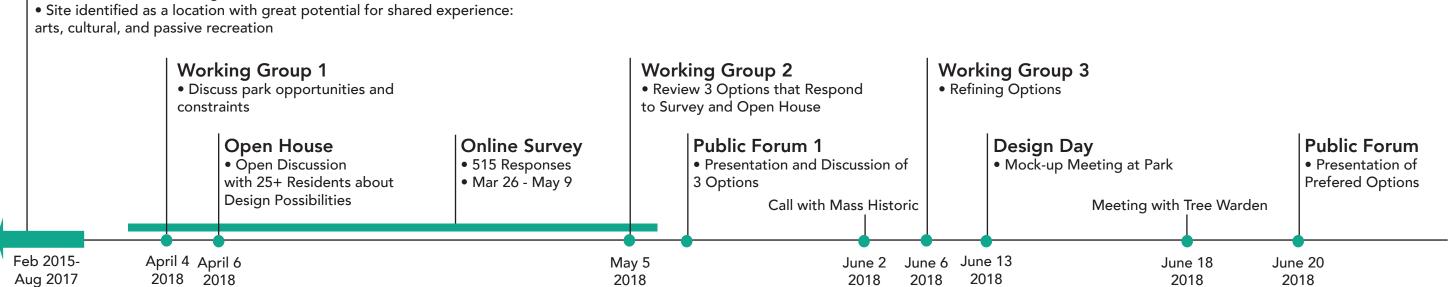


What improvements would encourage you to spend more time in the park?

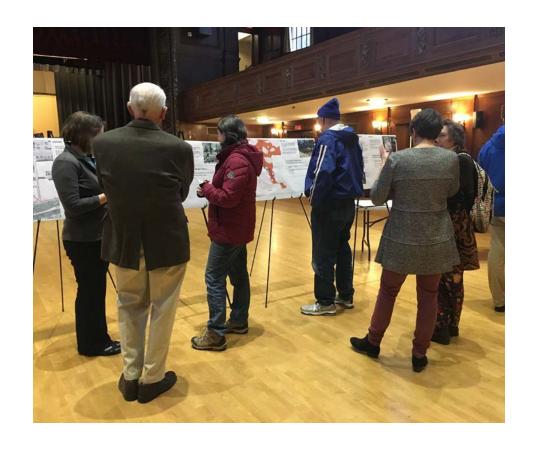




- Park identified as needing renovation







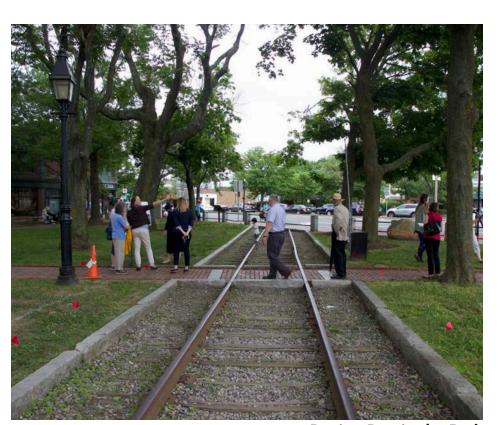




Open House





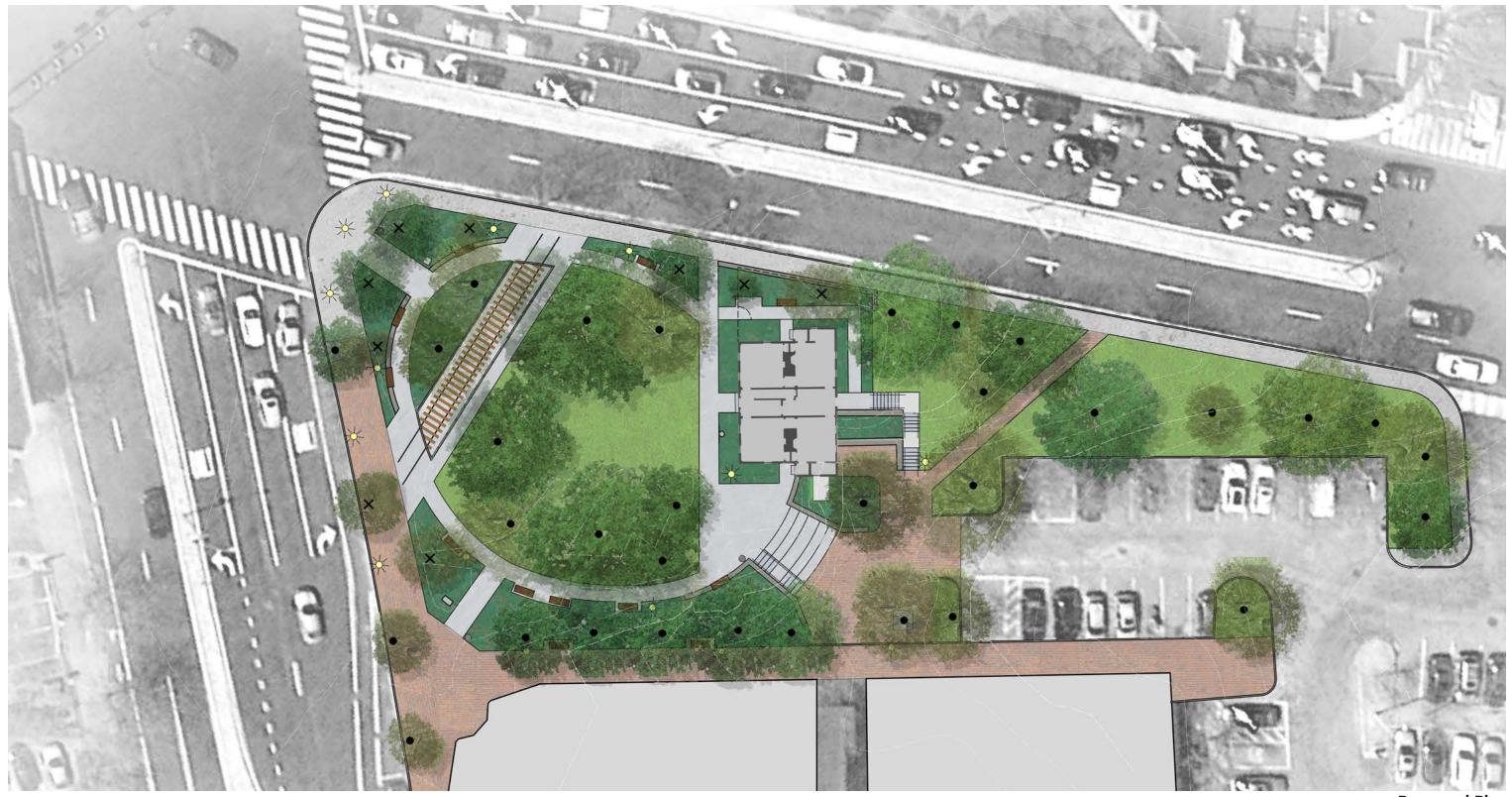


Design Day in the Park

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Proposed Plan



Proposed Plan



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The proposed plan involves replacing the brick crossing paths with a oval walking path around the perimeter. The grade along the southeast side of the park (adjacent to Old Mystic Street) would be regraded to extend the flat upper lawn area and to rationalize the slope, and a number of new benches would be placed around the perimeter path. The area outside this perimeter path would be planted with a combination of ground covers, shrubs, and new trees.

The plan proposes a new accesible path adjacent to the railroad tracks, combined with a raised granite curb, engraved with historic and interperative information. The center segment of the railroad tracks, currently covered by a brick path, would be uncovered, while segments of the railroad track at either end would be covered to allow for circulation around the perimeter. A new planting bed, incorporating two existing Norway maples, would be added adjacent to the tracks.

On the southeast side of the house, where the grade change is the most dramatic, we are proposing a set of ampitheater-style steps, linking two paved public spaces: an upper plaza adjacent to the house, and a lower plaza area where there is currently a right-of-way. This space would need to remain passable for cars, at least some of the time, so it would remain connected to the existing parking lot with either a short ramp or a mountable curb

The area along the northwest side of the Cutter House would be regraded to allow for an accessible sloped path to the rear door. This would require the creation of a low retaining wall along the edge of the Mystic Street sidewalk. The area surrounding this path would be planted as a memorial garden.

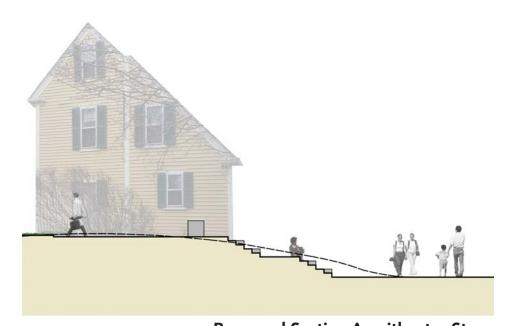
Nine trees would be removed around the park, and nine new trees would be planted. We would also be adding new post lights, trash barrels, and benches throughout the park.



Proposed Section-Rail Corridor



Proposed Section-Old Mystic St



Proposed Section-Ampitheater Steps



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Proposed Plan



Existing View



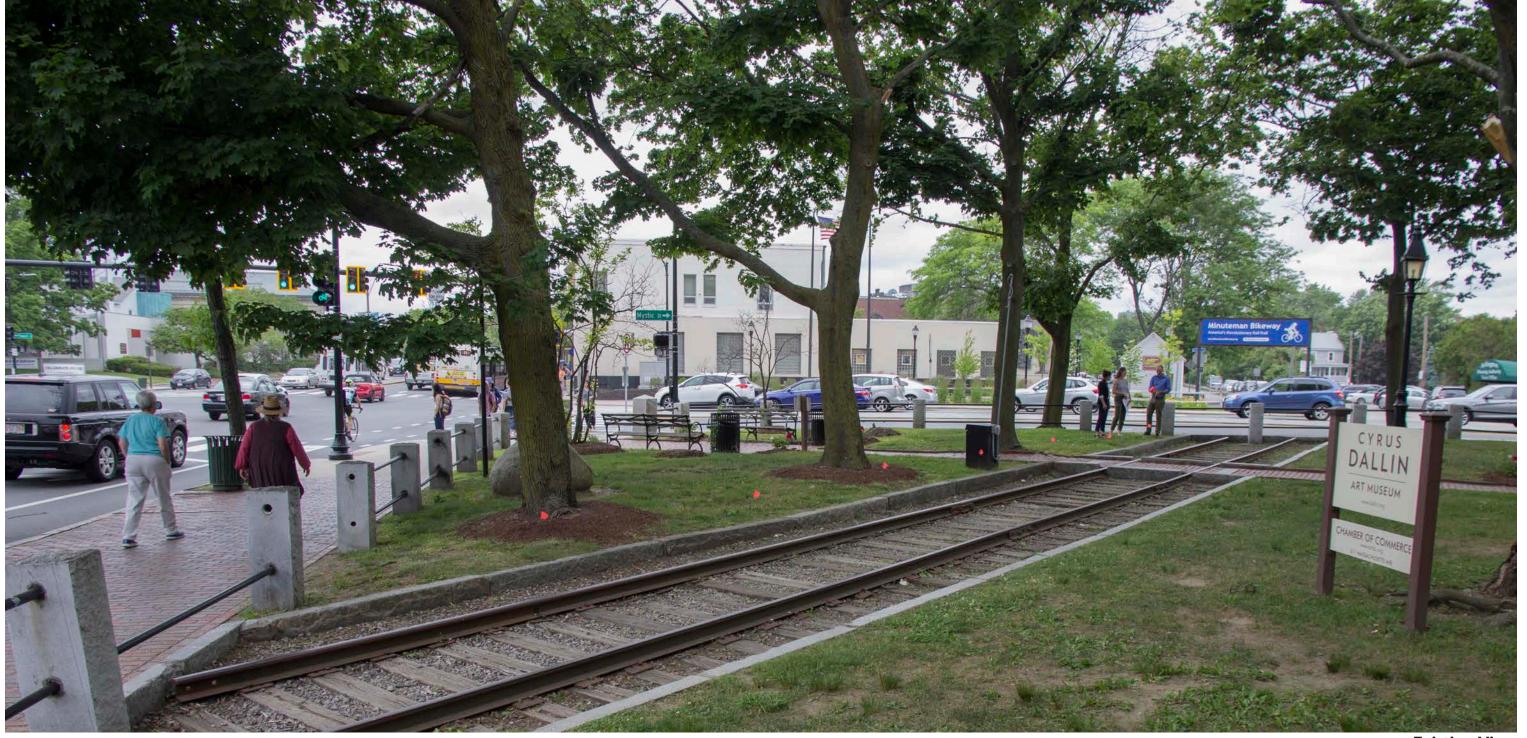
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Proposed Plan



Existing View



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Proposed View



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Proposed Plan



Existing View



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Proposed View

Proposed Plan

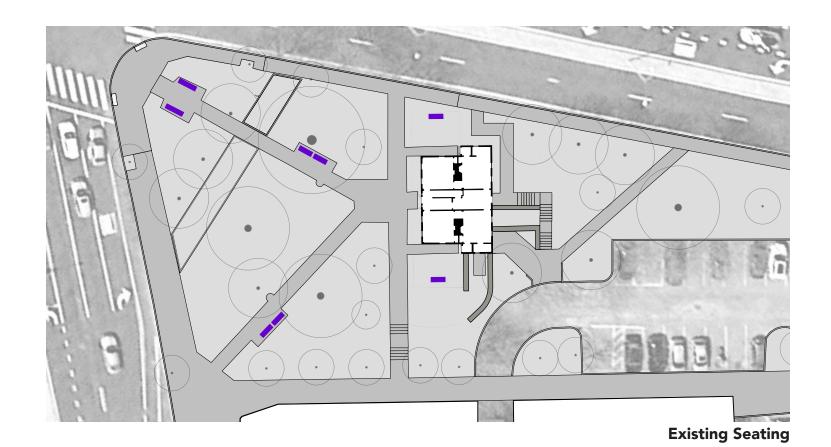
There are currently 8 wooden benches in the park located along the crossing paths and in the side gardens. Our plan proposes 8 new free-standing benches around the park perimeter along with three new seat walls with integral wooden benches. Additional movabale cafe tables or adirondack chairs could be placed in the central lawn for special events.

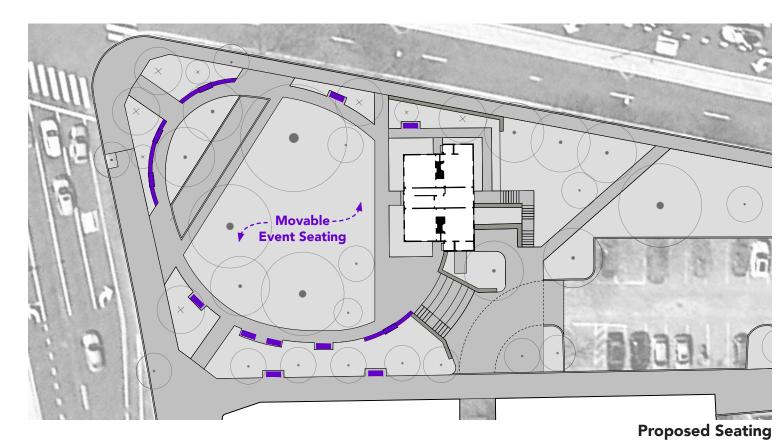


Precedent:Landscape Forms Neoliviano Bench



Precedent:Forms+Surfaces Knight Bench







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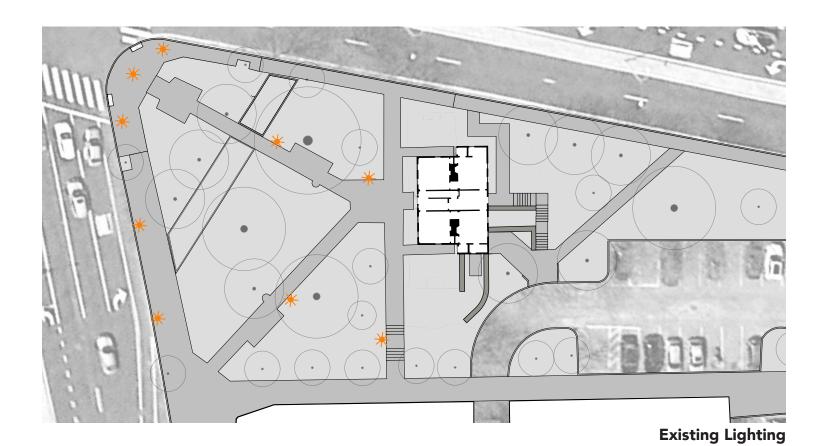
The park currently has four post lights located along crossing paths within the park. Our plan proposes six new lights along the perimeter path, as well as four lights along old Mystic Street and at the rear plaza. New lights would designed to reduce light pollution by reflecting light downwards, instead of shining out or upwards.

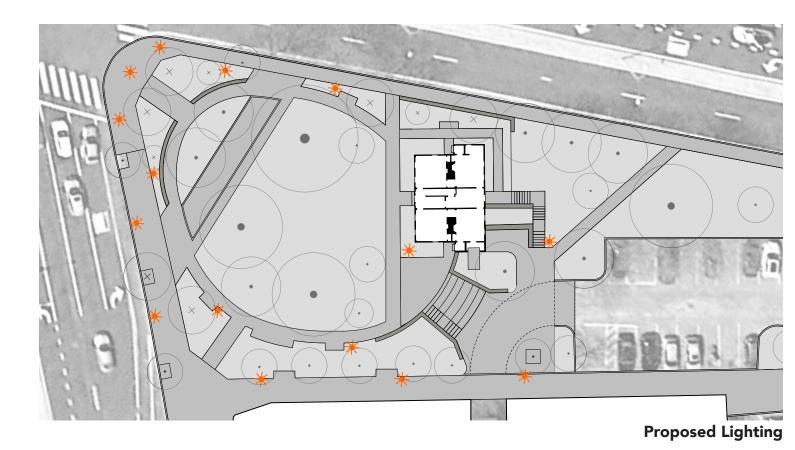


Precedent:Sternberg Euro Post Light



Precedent:Sternberg Solana Post Light







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Proposed Plan

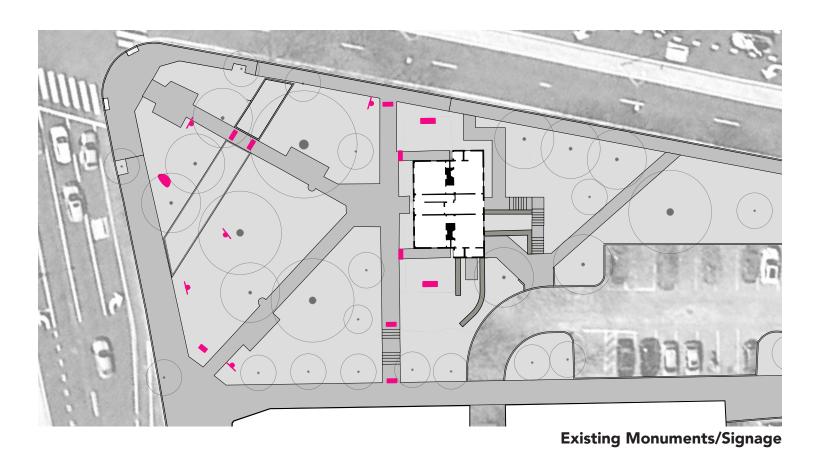
The park currently has a mixture of freestanding stone monuments, engraved stones set in pavement, and freestanding signs. Our plan proposes consolidating much of the interpretive signage into a single interpretive marker adjacent to the train tracks, while retaining the Samuel Whittemore stone in its current location.

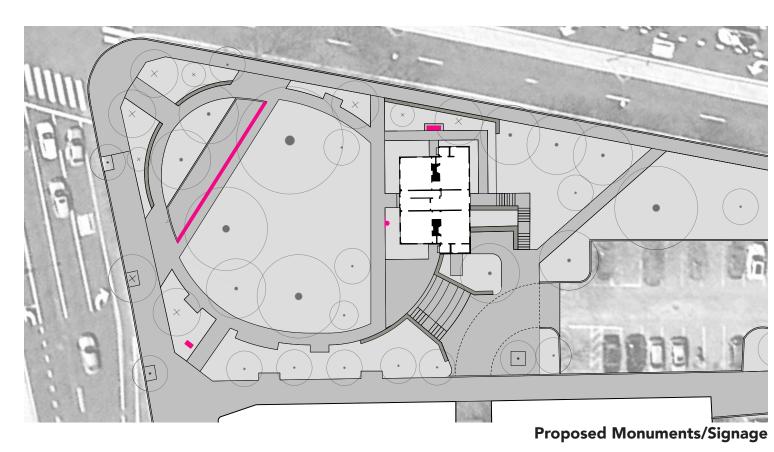


Precedent:South Boston Maritime Park
Boston, MA



Precedent:Korean War Veterans Memorial Washington, DC







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The park currently has a number of large, healthy canopy trees, as well as several damaged or over-mature trees, particularly along the rail tracks. Five of these trees have been slated for removal by the Arlington Tree Warden (one has been removed), and our plan calls for the removal of an additional two. We would then plant six new canopy trees and three new understory trees, all of New England native species well adapted to urban environments.







Potential Canopy Species: Tulip Poplar *Liriodendron tulipifera*





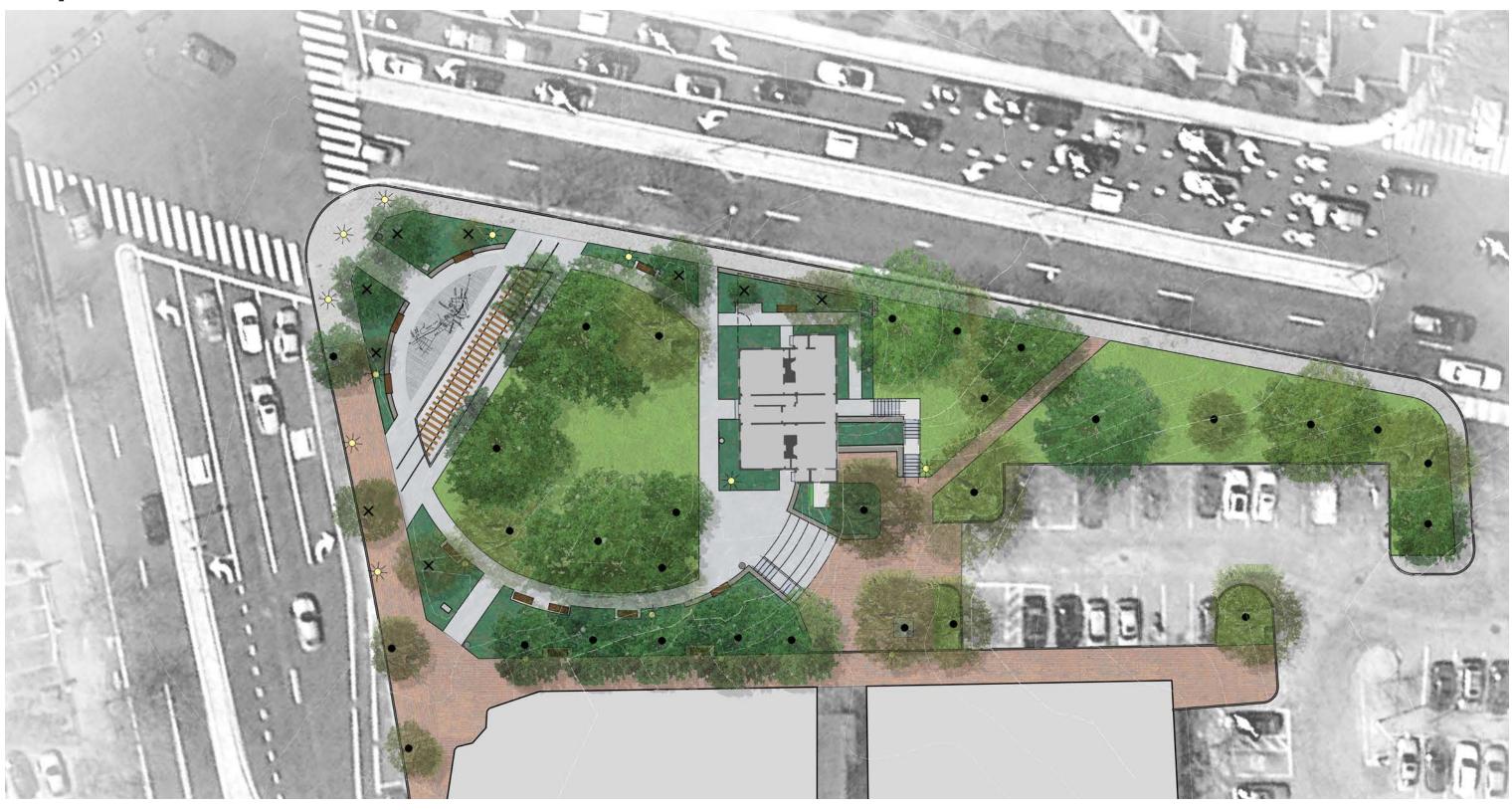
Potential Understory Species: Shadbush Amelanchier canadensis





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Proposed Plan-Variant





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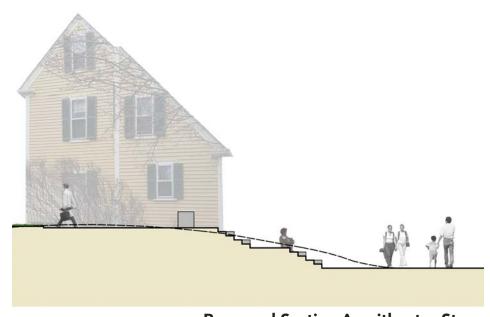
A variant to the proposed plan eliminates two additional trees on the Mass Ave side of the train tracks, and replaces their planting bed with a new pedestrian plaza. Instead of a raised curb engraved with historic information, this plaza would feature engraving directly in the plaza pavement, potentially including historic maps, timelines, or other information.







Proposed Section-Old Mystic St

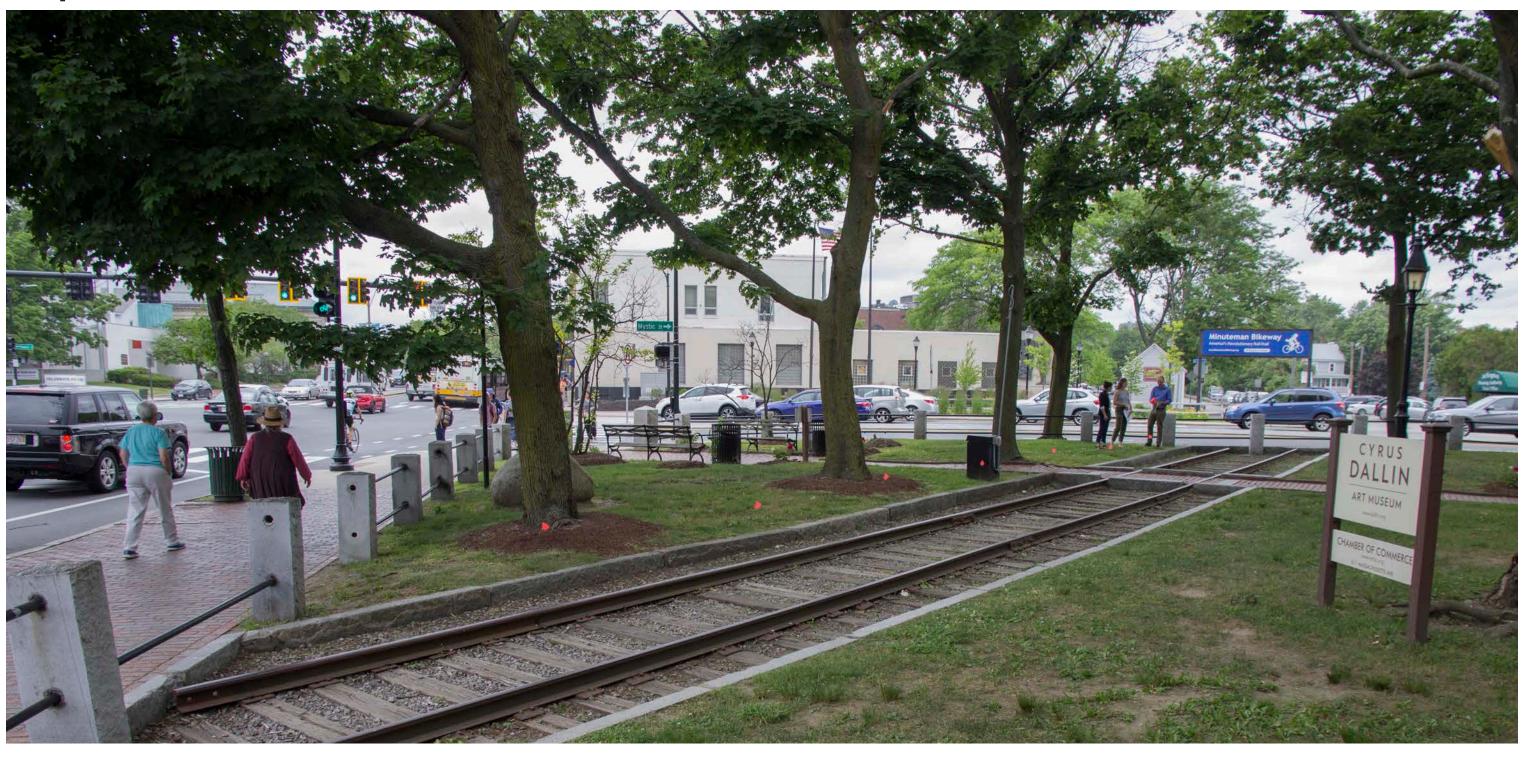


Proposed Section-Ampitheater Steps

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Proposed Plan-Variant





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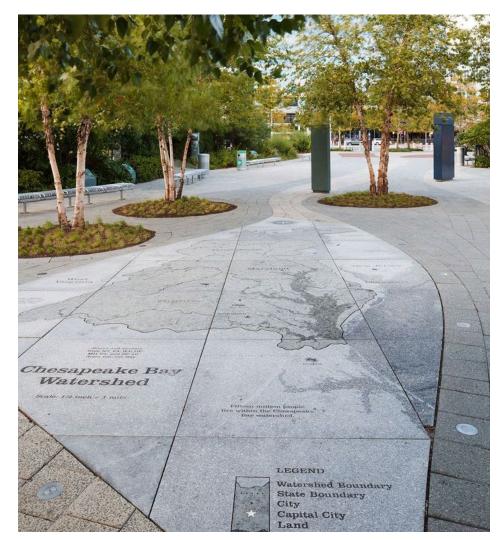




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Proposed Plan-Variant

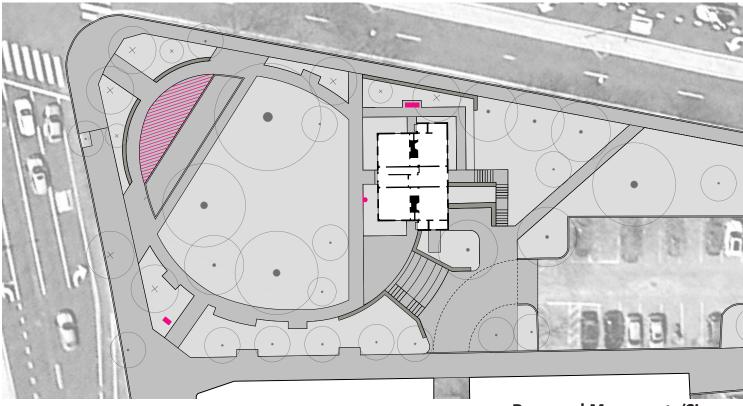
The new interpretive plaza would focus specifically on the historic development of Arlington and its rail history, and could potentially include a map of historic Arlington center, or a timeline of its development.



Precedent:National Aquarium
Baltimore, MD



Existing Monuments/Signage



Proposed Monuments/Signage



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Establishing the interpretive plaza would require removing an additional two Norway maples. To prevent overcrowding, no additional new trees would be planted, compared with the primary proposed plan.













Potential Understory Species: Shadbush Amelanchier canadensis



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Project Phasing and Construction Schedule

The proposed renovations to Whittemore Park could be executed all at once, or the project could be broken down into three distinct phases. Doing so would extend the duration of construction and add somewhat to the overall cost, but would allow portions of the park to remain open during constuction and permit renovations to proceed as partial funding becomes available.

The first phase would include renovations to the portion of the park in front of the Jefferson Cutter House, including the creation of a circuit path, removal of trees and new planting, renovations to the rail corridor, and improvements to the central lawn.







The second phase would include creating a new accessible path to the rear door of the Jefferson Cutter House, as well as improvements to the rear stairway. The existing side garden would be removed and would be replaced by a new garden, including a new granite retaining wall and wooden board fence.

The third phase includes the creation of a small gathering space at the side of the Jefferson Cutter House, new ampitheater-style steps, and the conversion of a portion of the existing right-of-way into a new pedestrian plaza.





Town of Arlington Whittemore Park Planning Project August 2018

Phase 3

Cost Estimate-Summary

Site Prep and Building Costs	Phase 1 Phase 2 Phase 3		\$404,517.00 \$124,272.00 \$424,269.00
			\$953,058.00
Markups	Design Contingency General Conditions Building Permit Escalation to Mid-Point Contractor's GC Fee	14% LS 1% 4.90% 5%	\$133,428.12 \$164,200.00 \$12,506.86 \$61,896.46 \$66,254.47
			\$1,391,343.91
Markups	Construction Contingency	5%	\$69,567.20
Total			\$1,460,911.10

	Item	Quantity	Unit	Unit Price	Cost
Add Alt 01: Interpretive Plaza	Less Planting Bed Concrete Unit Pavers Remove Trees Grind Stumps Markups and Contingencies	-557 557 2 2	SF SF EA EA	\$10.00 \$45.00 \$950.00 \$600.00 60%	\$(5,570.00) \$25,065.00 \$1,900.00 \$1,200.00 \$13,557.00
					\$36,152.00
Add Alt 02: Stone Seat Wall	Less Concrete Seat Wall Granite Seat Wall Markups and Contingencies	-60 60	LF LF	\$690.00 \$970.00 60%	\$(41,400.00) \$58,200.00 \$10,080.00
					\$26,880.00
Add Alt 03: Stone Retaining Wall	Less Concrete Retaining Wall Granite Seat Wall Markups and Contingencies	-85 85	LF LF	\$750.00 \$1,140.00 60%	\$(63,750.00) \$96,900.00 \$19,890.00
					\$53,040.00
Add Alt 04: Phased Construction	Premium for Phased Construction Markups and Contingencies	1	LS	\$142,958.70 60%	\$142,958.70 \$85,775.22
					\$228,733.92







Phase 1 Costs

	Item	Quantity	Unit	Unit Price	Cost %	6 of Tota
Site Prep and Demolition	Strip and Stockpile front Lawn Remove Brick Paths in Front Lawn Remove Granite Curb around Tracks Remove Granite Post and Steel Rail Fence Remove Wood Picket Fence Remove Trees Grind Stumps Remove Bench Remove Trash Barrel Remove Post Light Remove Wood Signs Remove Electrical Box Remove and Salvage Memorial Boulder Tree Work: Pruning and Root Invigoration Tree Protection Rough Grading Temporary Barriers and Protection	9,105 2,644 216	SF SF LF LF EA EA EA EA EA EA CY LS	\$2.00 \$10.00 \$25.00 \$10.00 \$10.00 \$800.00 \$150.00 \$100.00 \$800.00 \$100.00 \$800.00 \$3,800.00 \$3,800.00 \$35.00 \$11,500.00	\$18,210.00 \$26,440.00 \$5,400.00 \$3,740.00 \$1,300.00 \$4,800.00 \$900.00 \$400.00 \$3,200.00 \$500.00 \$800.00 \$3,800.00 \$15,790.00 \$3,000.00 \$11,500.00	
					\$109,680.00	11.51%
New Work	Restore Segment of Rail Corridor Replace Wooden Rail Ties Replace Ballast with Stone Dust Prep Planting Beds Exposed Aggregate Concrete Path Concrete Seat Wall Granite Curb Wall-top Bench Free-Standing Bench Trash Barrel Post Light Flood Light Conduit and Wiring for Post Lights Temporary Barriers and Protection	1 3 658 2962 3039 60 153 3 6 3 7 2 840	LS EA SF SF LF LF EA EA EA EA LF LS	\$10,000.00 \$900.00 \$7.00 \$2.00 \$12.00 \$690.00 \$38.00 \$1,800.00 \$1,900.00 \$900.00 \$3,800.00 \$1,350.00 \$38.00 \$20,400.00	\$10,000.00 \$2,700.00 \$4,606.00 \$5,924.00 \$36,468.00 \$41,400.00 \$5,814.00 \$5,400.00 \$11,400.00 \$2,700.00 \$2,700.00 \$31,920.00 \$20,400.00	
					\$208,032.00	21.83%
Planting	Sod Groundcover, 4" Pot Shrubs, 3' Height Tree, 4" Caliper Understory Tree, 12-15' High Soil for Sod Soil for Groundcover Soil for Shrubs Soil for Trees Irrigation Expansion/Modification	5691 1,834 112 5 2 152 37 224 28	SF EA EA EA CY CY CY CY LS	\$3.00 \$8.00 \$60.00 \$1,900.00 \$1,800.00 \$60.00 \$60.00 \$75.00 \$75.00 \$5,000.00	\$17,073.00 \$14,672.00 \$6,720.00 \$9,500.00 \$3,600.00 \$9,120.00 \$2,220.00 \$16,800.00 \$2,100.00 \$5,000.00	
					\$86,805.00	9.11%
	Pha	se 1 Subt	total		\$404,517	42.44%





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Phase 2 Costs

Site Prep and Demolition

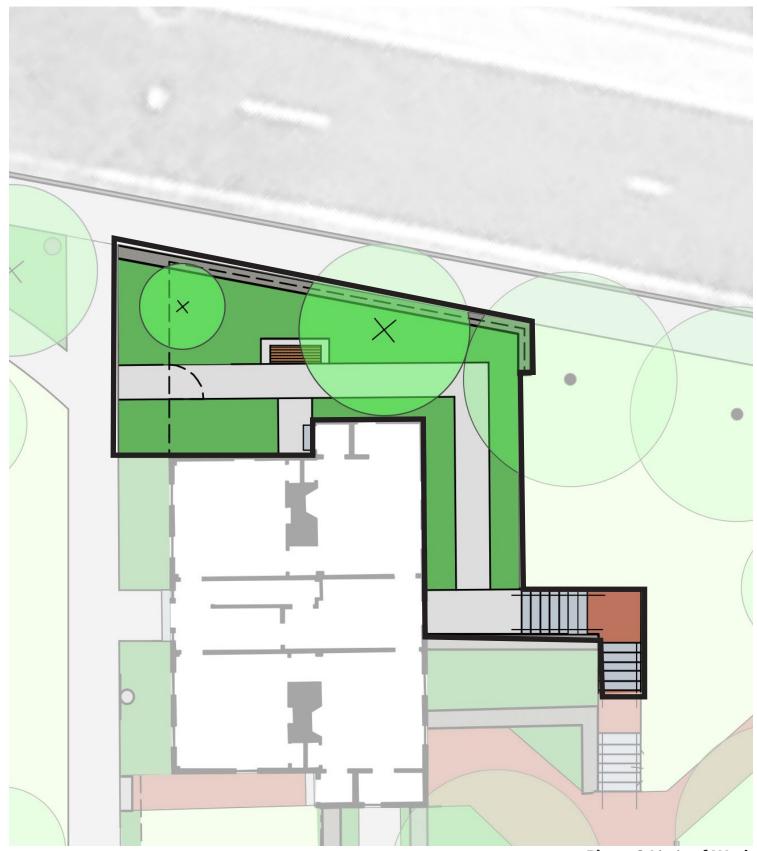
New Work

Planting

Item	Quantity	Unit	Unit Price	Cost	% of Total
Strip and Stockpile NW Garden Remove Brick Path Remove Shrubs Remove Stairs, Salvage Granite Steps Remove Bench Tree Protection Tree Work:Pruning and Root Invigoration Rough Grading Temporary Barriers and Protection	271 340 884 78 1 1 1 40	SF SF SF EA EA LS CY LS	\$2.00 \$15.00 \$3.00 \$150.00 \$150.00 \$200.00 \$1,315.00 \$35.00 \$5,100.00	\$542.00 \$5,100.00 \$2,652.00 \$11,700.00 \$150.00 \$200.00 \$1,315.00 \$1,400.00 \$5,100.00	
Exposed Aggregate Concrete Path Prep Planting Beds Fence, 4' Wood Board Fence, Gate Granite Stairs Concrete Bedding for Granite Stair Work Handrail at Granite Stair Brick Landing Salvaged Granite Retaining Wall Free-Standing Bench	344 998 70 1 68 1 16 63 55	SF SF LF EA SF LS LF SF LF	\$12.00 \$2.00 \$150.00 \$900.00 \$300.00 \$4,250.00 \$190.00 \$65.00 \$300.00 \$1,900.00	\$28,159.00 \$4,128.00 \$1,996.00 \$10,500.00 \$900.00 \$20,400.00 \$4,250.00 \$3,040.00 \$4,095.00 \$16,500.00 \$1,900.00	
Sign Temprary Barriers and Protection	1	EA LS	\$400.00 \$10,300.00	\$400.00 \$10,300.00 \$78,409.00	
Groundcover, 4" Pot Perennials Tree, 4" Caliper Understory Tree, 12-15' High Soil for Perennials Soil for Trees Irrigation Expansion/Modification	183 163 1 1 30 8	EA EA EA CY CY LS	\$8.00 \$30.00 \$1,900.00 \$1,800.00 \$75.00 \$75.00 \$4,800.00	\$1,464.00 \$4,890.00 \$1,900.00 \$1,800.00 \$2,250.00 \$600.00 \$4,800.00	

\$17,704.00 1.86%

Phase 2 Subtotal \$124,272 13.04%



Phase 2 Limit of Work



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Phase 3 Costs

Site	Prep	and
D	emoli	tion

	Item	Quantity	Unit	Unit Price	Cost	% of Total
Cita Duan and	Strip and Stockpile SE Garden	264	SF	\$2.00	\$528.00	
Site Prep and	Remove Perennials and Shrubs	928	SF	\$1.00	\$928.00	
Demolition	Remove Stairs, Salvage Granite Steps	111	SF	\$50.00	\$5,550.00	
	Remove Field Stone Retaining Wall	96	SF	\$50.00	\$4,800.00	
	Remove Granite Curb	116	LF	\$20.00	\$2,320.00	
	Remove Asphalt Paving	976	SF	\$5.00	\$4,880.00	
	Remove Brick Paving	416	SF	\$10.00	\$4,160.00	
	Strip and Stockpile SE of House	624	SF	\$2.00	\$1,248.00	
	Tree Protection	1	LS	\$1,500.00	\$1,500.00	
	Tree Work: Pruning and Root Invigoration	1	LS	\$7,895.00	\$7,895.00	
	Rough Grading	175	CY	\$35.00	\$6,125.00	
	Temporary Barriers and Protection	1	LS	\$4,900.00	\$4,900.00	
					\$44,834.00	4.70%
New Work	Concrete Unit Pavers					
	Concrete Ampitheater Steps	443	SF	\$55.00	\$24,365.00	
	Granite Stairs	306	SF	\$250.00	\$76,500.00	
	Handrails and Granite Stairs	95	SF	\$150.00	\$14,250.00	
	Brick Paving on Asphalt	80	LF	\$190.00	\$15,200.00	
	Prep Planting Bed	1700	SF	\$55.00	\$93,500.00	
	Flush Granite Curb	902	SF	\$2.00	\$1,804.00	
	Brick Car Ramp on Asphalt	15	LF	\$38.00	\$570.00	
	Concrete Retaining Wall	165	SF	\$70.00	\$11,550.00	
	Wall-Mount Bench	85	ĹF	\$750.00	\$63,750.00	
	Free-Standing Bench	1	EA	\$1,800.00	\$1,800.00	
	Trash Barrel	1	EA	\$1,900.00	\$1,900.00	
	Tree Grate	2	EA	\$900.00	\$1,800.00	
	Post Light	1	EA	\$3,800.00	\$3,800.00	
	Conduit and Wiring for Post Lights	3	EA	\$3,800.00	\$11,400.00	
	Temprary Barriers and Protection	360	LF	\$38.00	\$13,680.00	
	p.s., bullion and recount	1	LS	\$27,400.00	\$27,400.00	
					\$363,269.00	38.12%

Planting

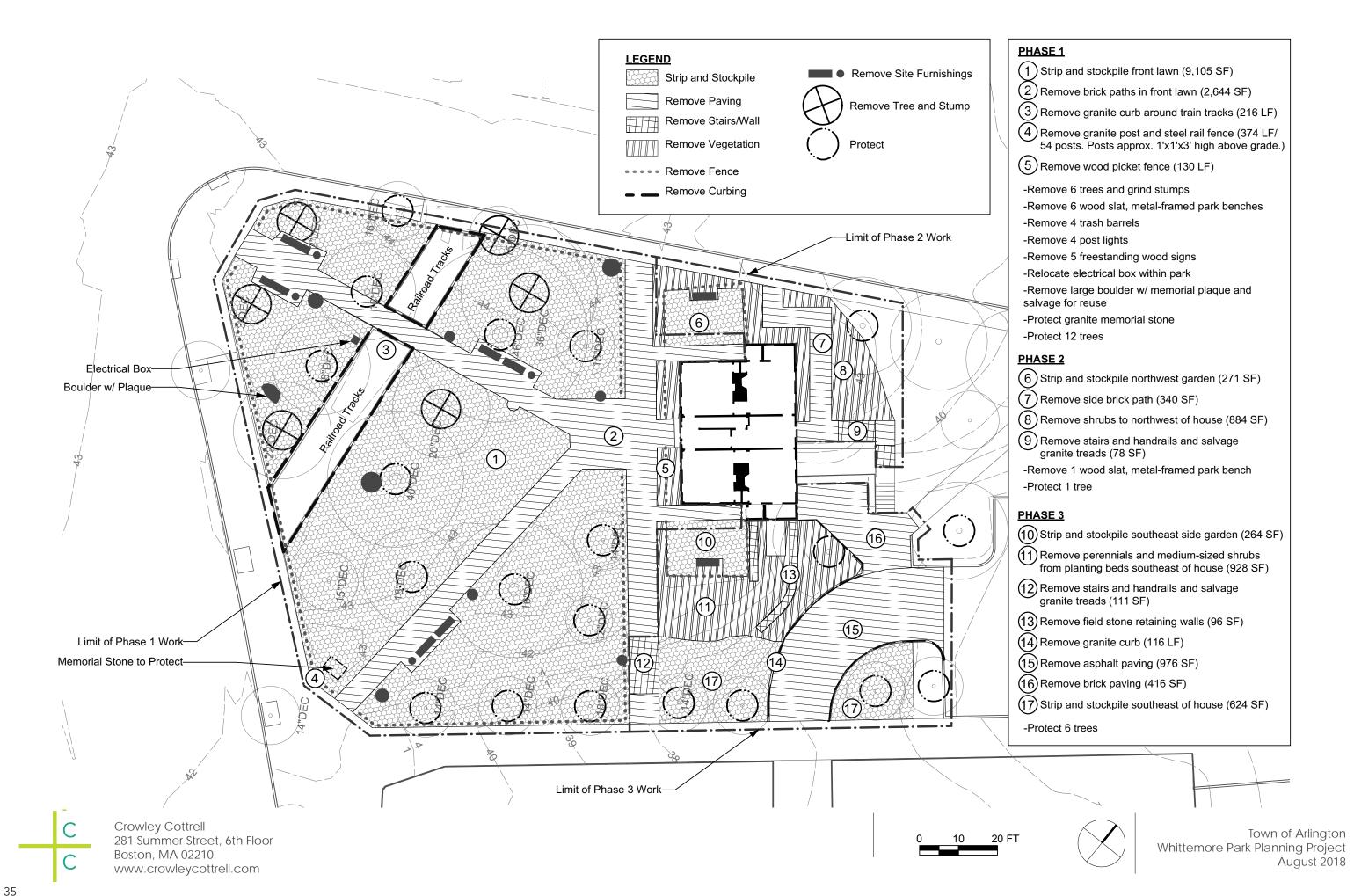
				\$16,166,00	1 70%
	1	LS	\$4,300.00	\$4,300.00	
Irrigation Expansion/Modification	58	CY	\$75.00	\$4,350.00	
Soil for Shrubs	11	CY	\$60.00	\$660.00	
Soil for Groundcover	5	CY	\$60.00	\$300.00	
Soil for Sod	29	EA	\$60.00	\$1,740.00	
Shrubs	545	EA	\$8.00	\$4,360.00	
Groundcover, 4" Pot	152	SF	\$3.00	\$456.00	
Sod				\$363,269.00	38.12%

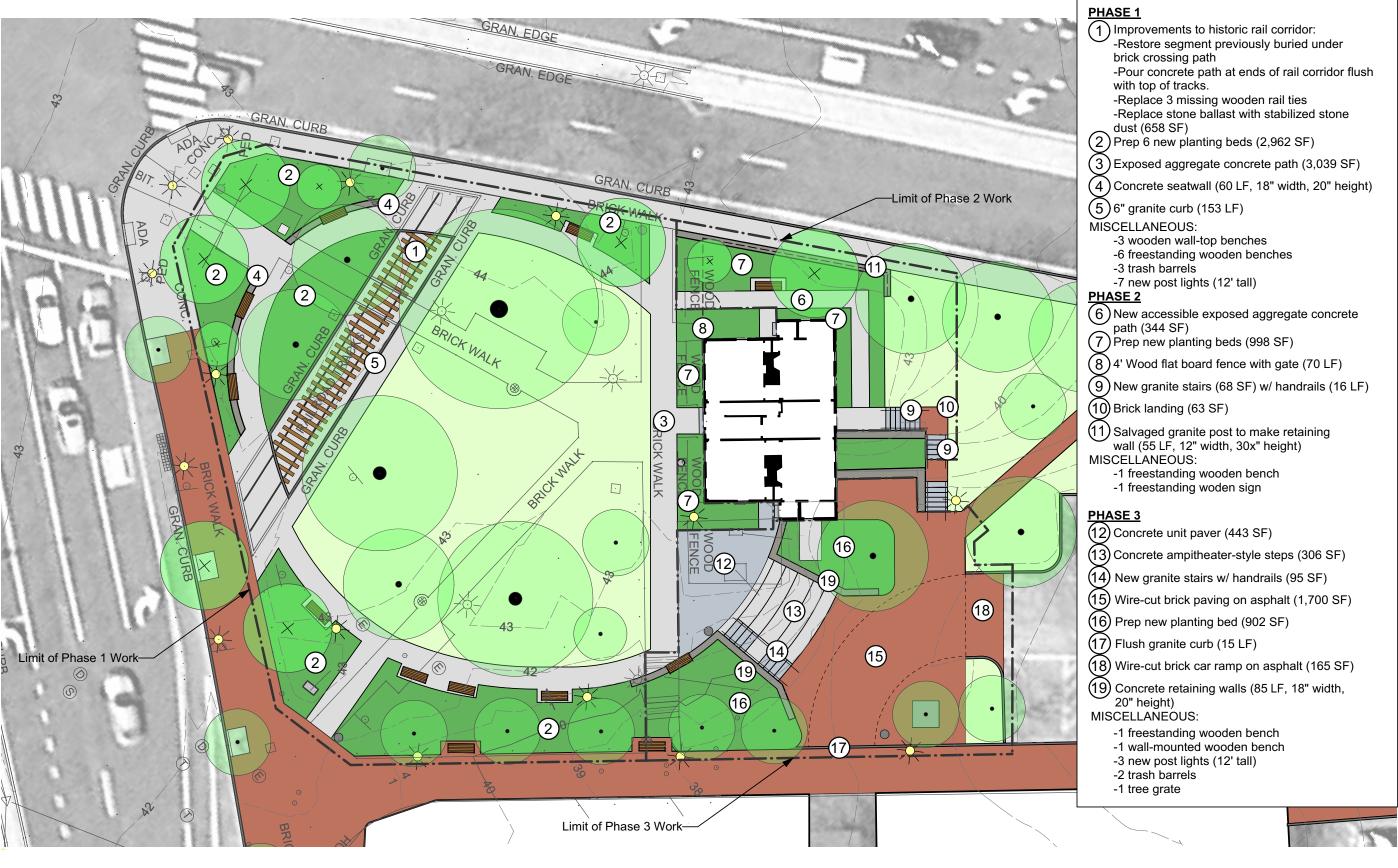
Phase 3 Subtotal \$424,269 44.52%



Phase 3 Limit of Work

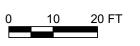
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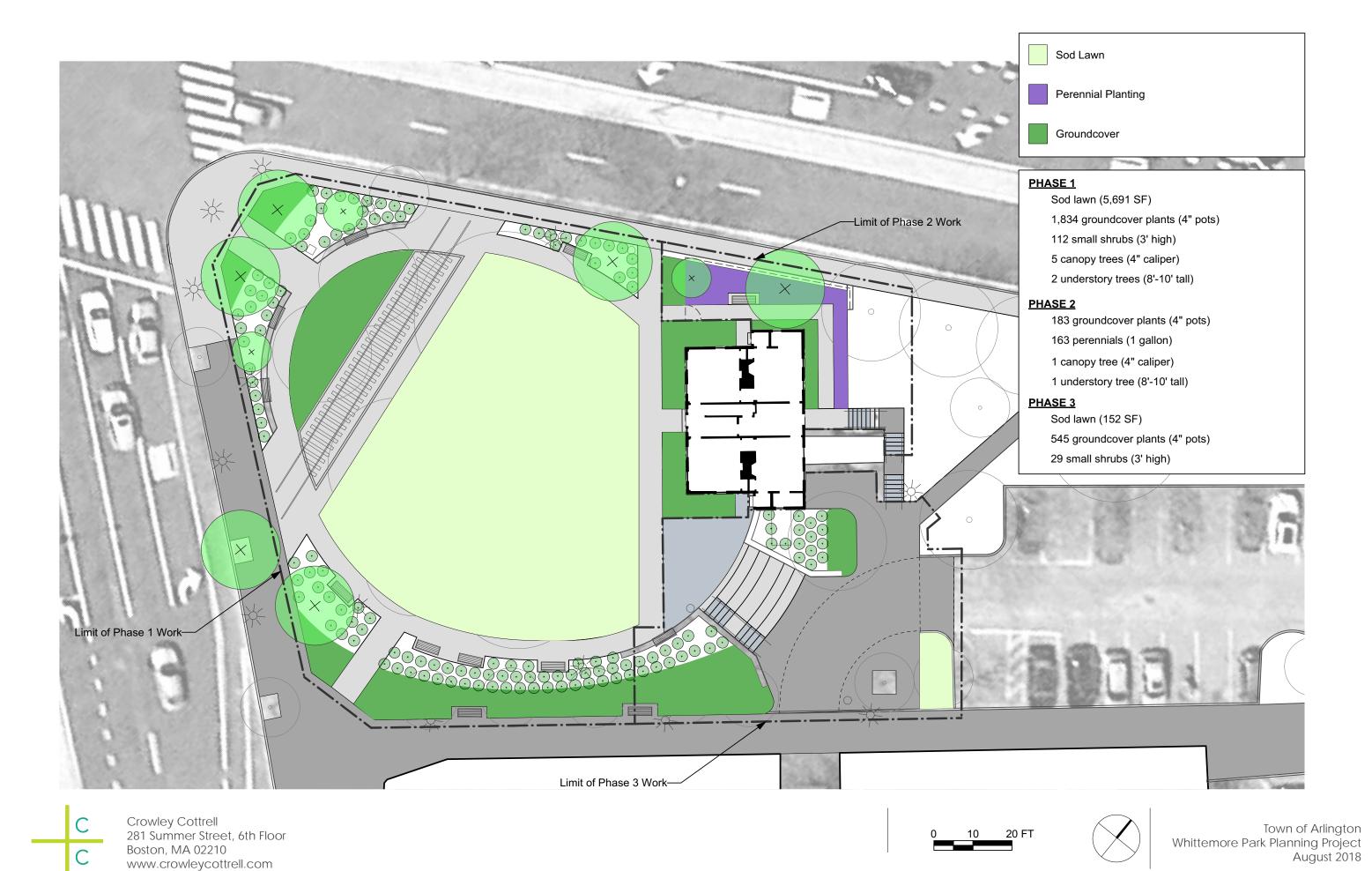


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