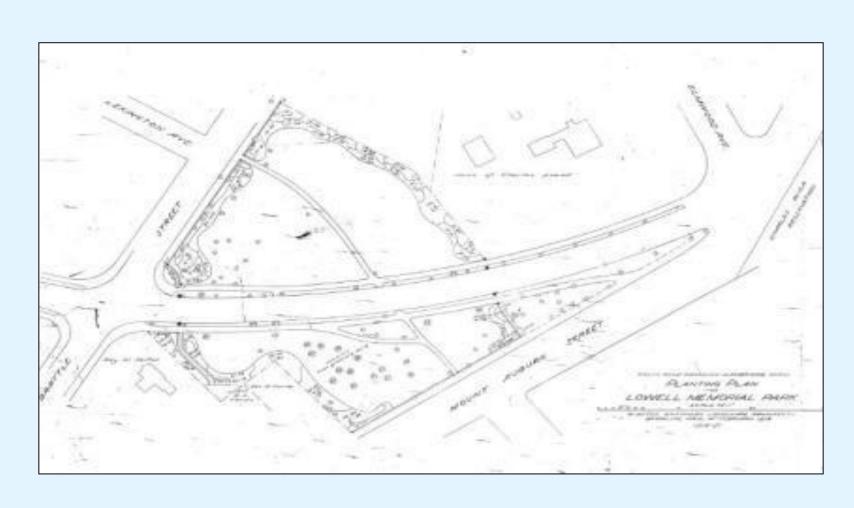
Lowell Memorial Park Historic Landscape Rehabilitation

Preliminary Design March 18, 2019









Commonwealth of Massachusetts

Governor

Charles D. Baker

Lt Governor

Karyn E. Polito

Energy and Environmental Secretary

Matthew A. Beaton

Department of Conservation and Recreation Commissioner

Leo Pierre Roy

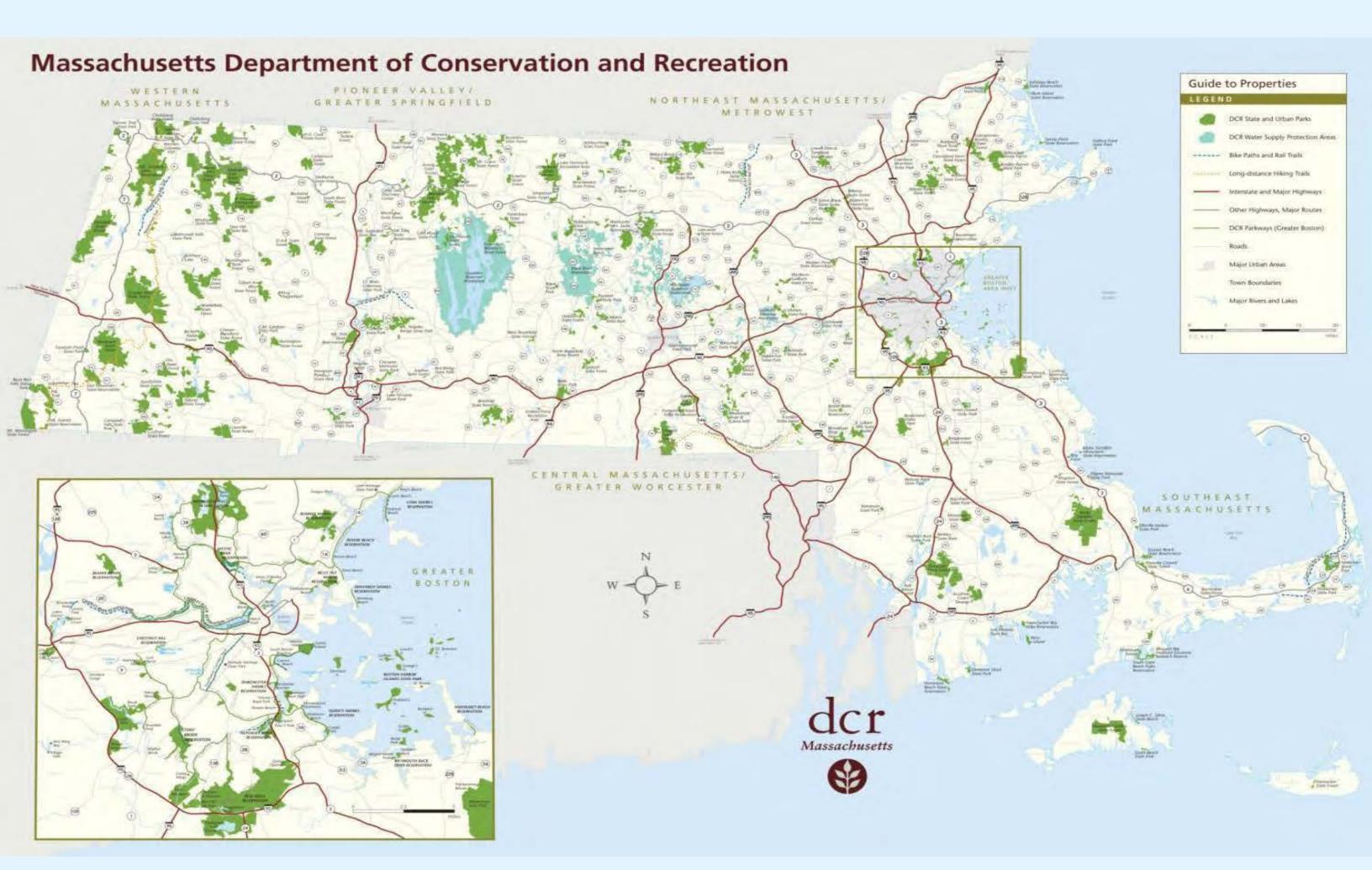
DCR Mission

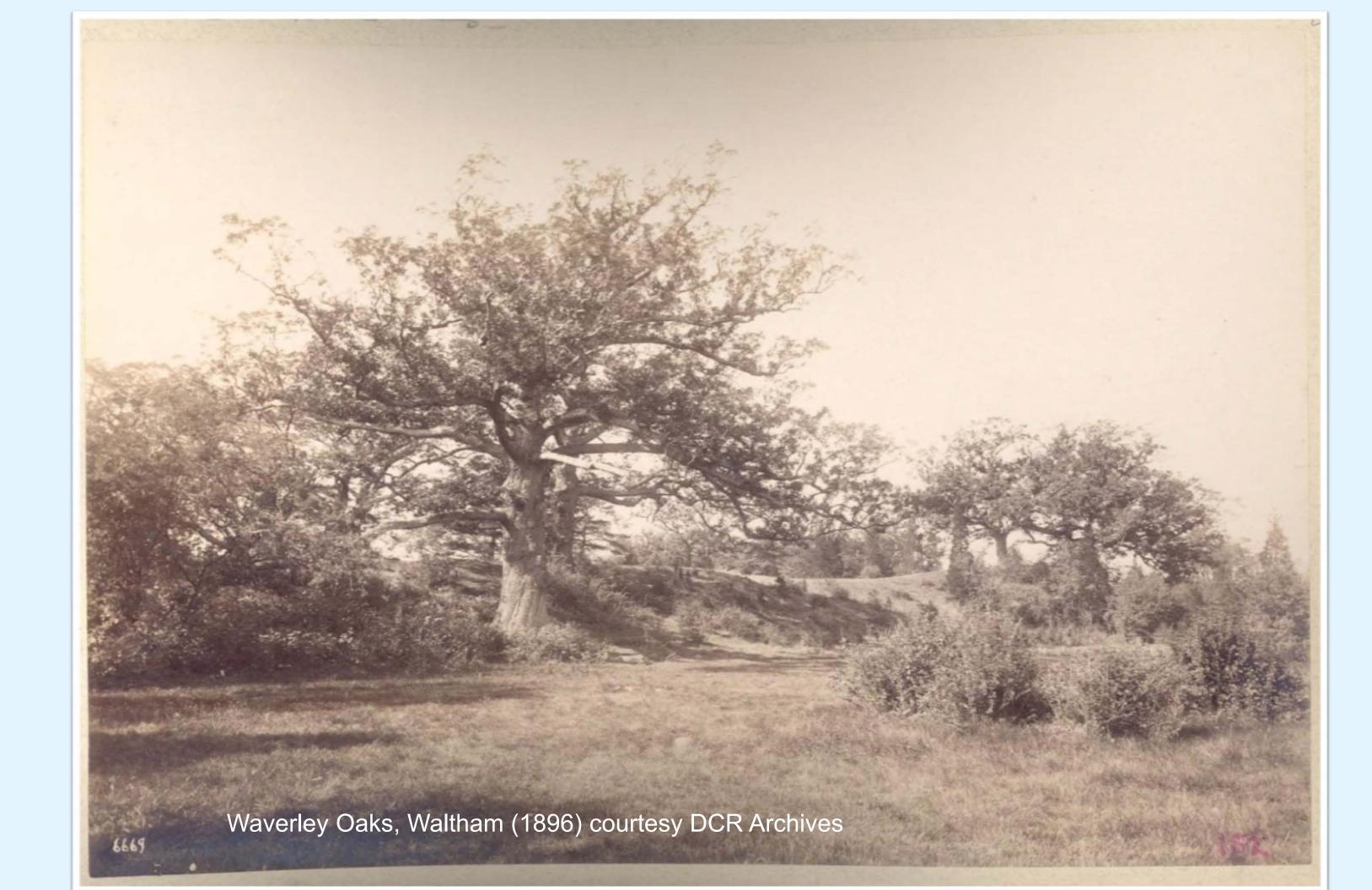
To protect, promote and enhance our common wealth of natural, cultural and recreational resources for the well-being of all.

Purpose of the Meeting

- Presentation of assessment and preliminary recommendations for landscape rehabilitation
- Review options for walls and pathways in Southern Section
- Hear public comments









Elmwood





Early Metropolitan Park

Olmsted Brothers design

Historic Site

Elmwood

- Oliver
- Gerry
- Lowell

National Historic Landmark



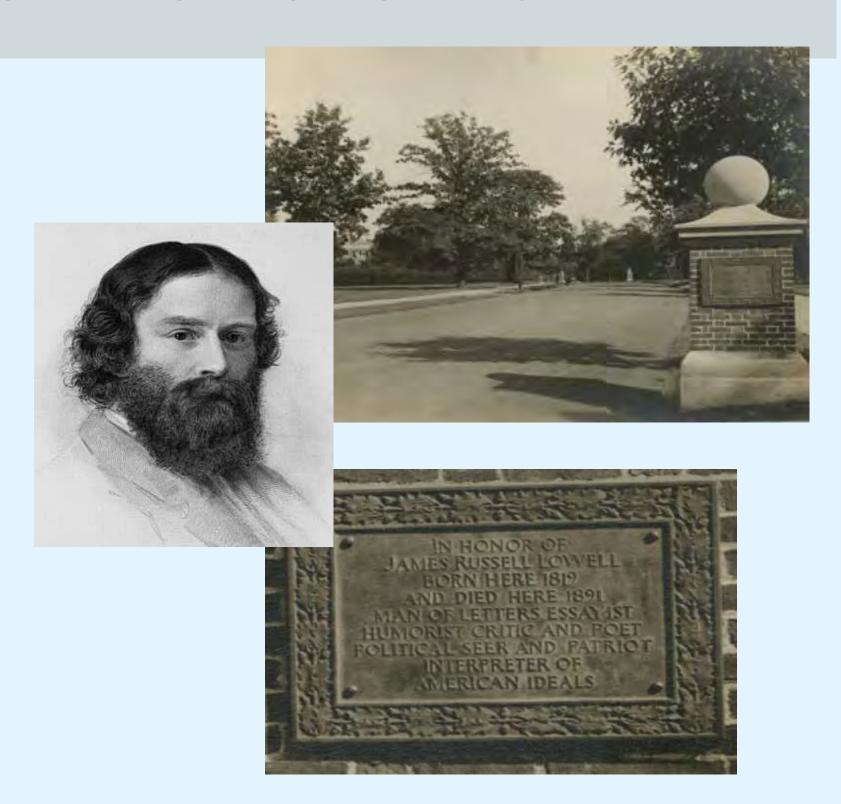




From 1877 City of Cambridge map, Franklin View Co. (Courtesy Norman B. Leventhal Map Center at the Boston Public Library)

Memorial to James Russell Lowell (1819-1891)

- Fireside Poet
- Abolitionist
- Ambassador

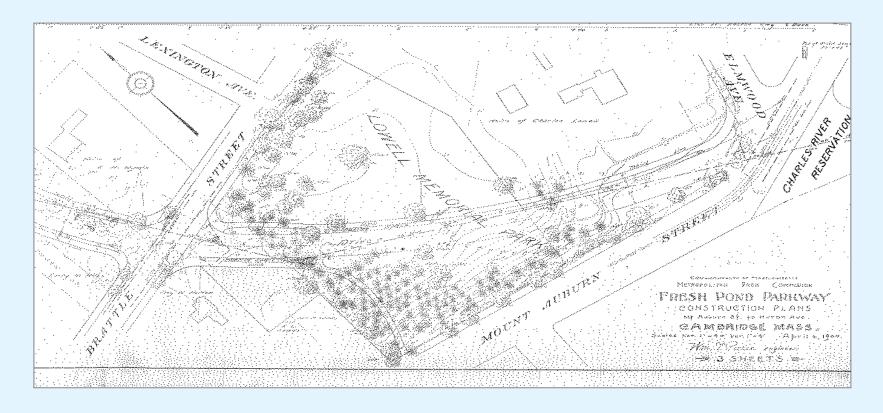


Part of Nation's First Regional Park System

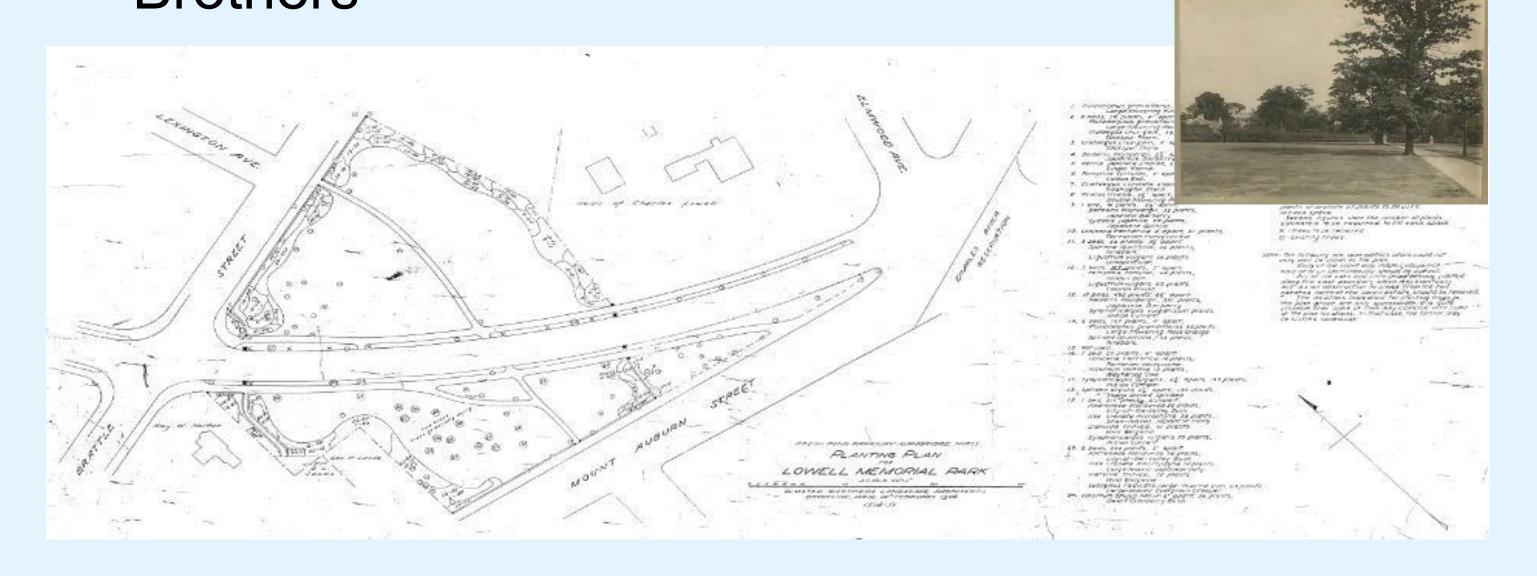
- Metropolitan Park
 System of Greater
 Boston
- National Register of Historic Places



1900 Atlas of Middlesex Co. (Courtesy of Cambridge Historical Commission)



Work of a noted designer – The Olmsted Brothers



Project Background

- 2012 DCR listening session
- 2014 Public Meeting
 - Cultural landscape Report
 - Wall Assessment
- 2015 Mt Auburn/Fresh Pond Parkway Traffic Study
- 2016 Wall Repairs in Big Lowell
- 2019 Partnership grant with City of Cambridge for Landscape Rehab Design (KZLA hired)





RECOMMENDATIONS 18 MARCH 2019



STUDIES

VIEWS

WALKWAYS

- ACCESSIBILITY
- SIDEWALKS

WALLS & PIERS

WALL ALIGNMENTS

VEGETATION

- 1906 OLMSTED PLANTING PLAN & PALETTE
- 1906 PLANTING VS. TODAY SPECIES & MASSING
- TREE REMOVALS
- TREE PLANTINGS
- SHRUB PLANTINGS
- INVASIVE SPECIES

SITE AMENITIES

MISCELLANEOUS SITE CONDITIONS











CIRCA 1910 IMAGE OF PARK & PARKWAY



2018 VIEW OF PARK & PARKWAY



BIG LOWELL FROM ACROSS THE PARKWAY



DEPT. OF CONSERVATION & RECREATION

LOWELL MEMORIAL PARK



LITTLE LOWELL FROM ACROSS THE PARKWAY

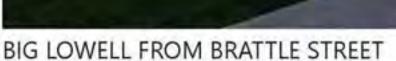
FROM AROUND PARK, INTO PARK

VIEWS

SUMMER 2018











BIG LOWELL FROM FRESH POND PARKWAY



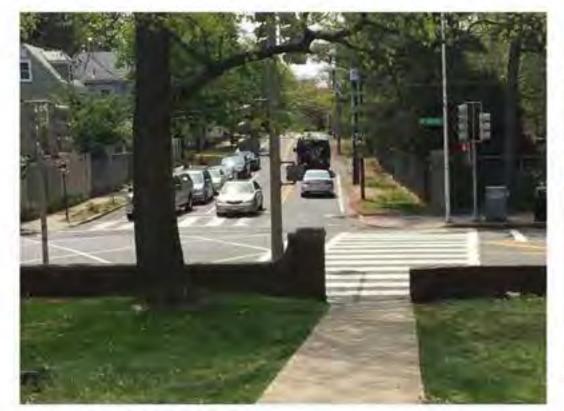
LITTLE LOWELL FROM FRESH POND PARKWAY



LITTLE LOWELL FROM FRESH POND PARKWAY NEAR MT. AUBURN ST





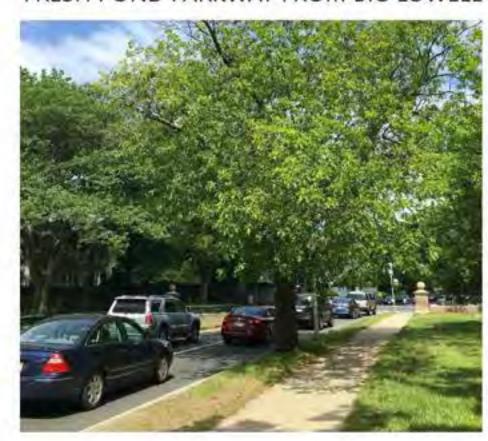


COOLIDGE STREET FROM LITTLE LOWELL

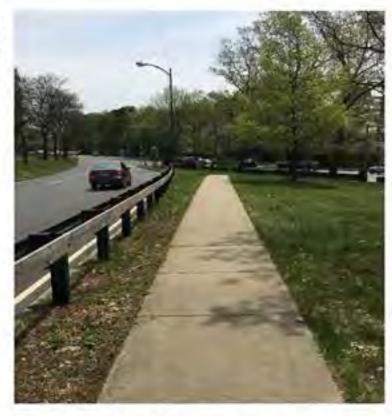


MOUNT AUBURN STREET FROM LITTLE LOWELL

FRESH POND PARKWAY FROM BIG LOWELL



FRESH POND PARKWAY LITTLE LOWELL





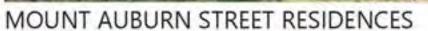


LOWELL MEMORIAL PARK

FROM PARK, OUT VIEWS













BRATTLE STREET RESIDENCES







BRATTLE STREET RESIDENCES

FROM PARK, OUT **VIEWS**

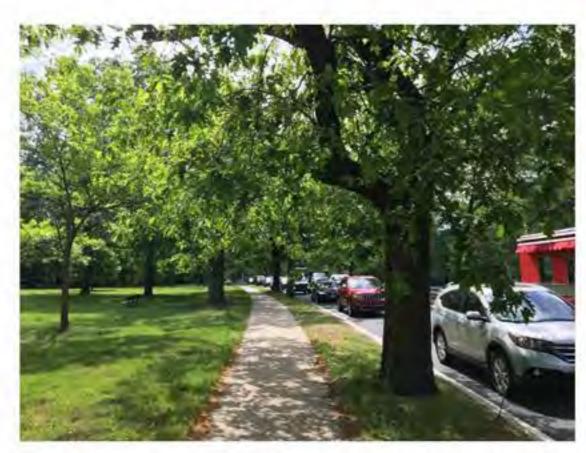








WALKWAY THROUGH BIG LOWELL



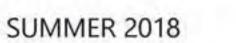




SIDEWALK ALONG FRESH POND PARKWAY

LOWELL MEMORIAL PARK









WALKWAY THROUGH LITTLE LOWELL



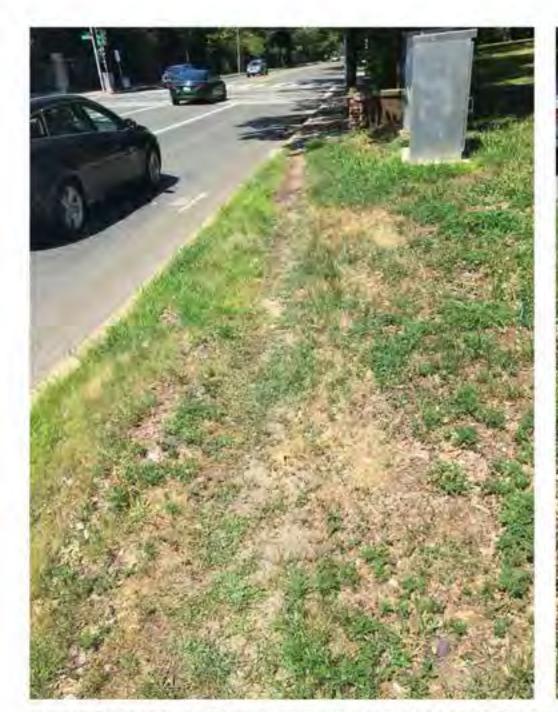
SIDEWALK CONDITIONS



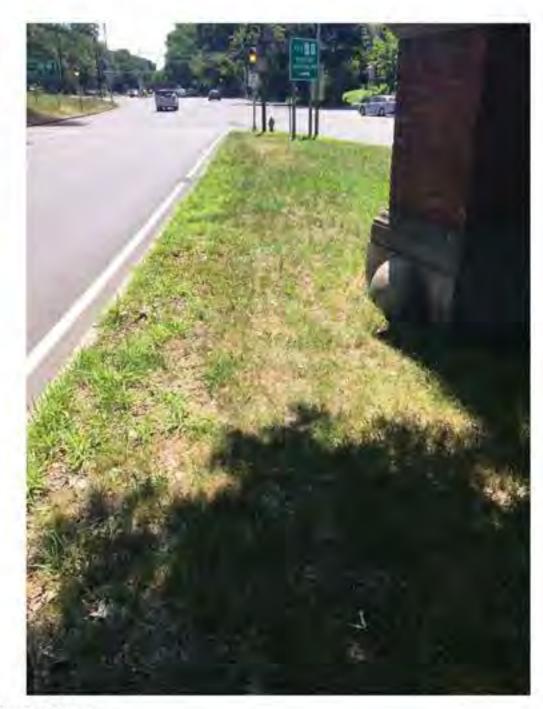
EX. CIRCULATION

SUMMER 2018





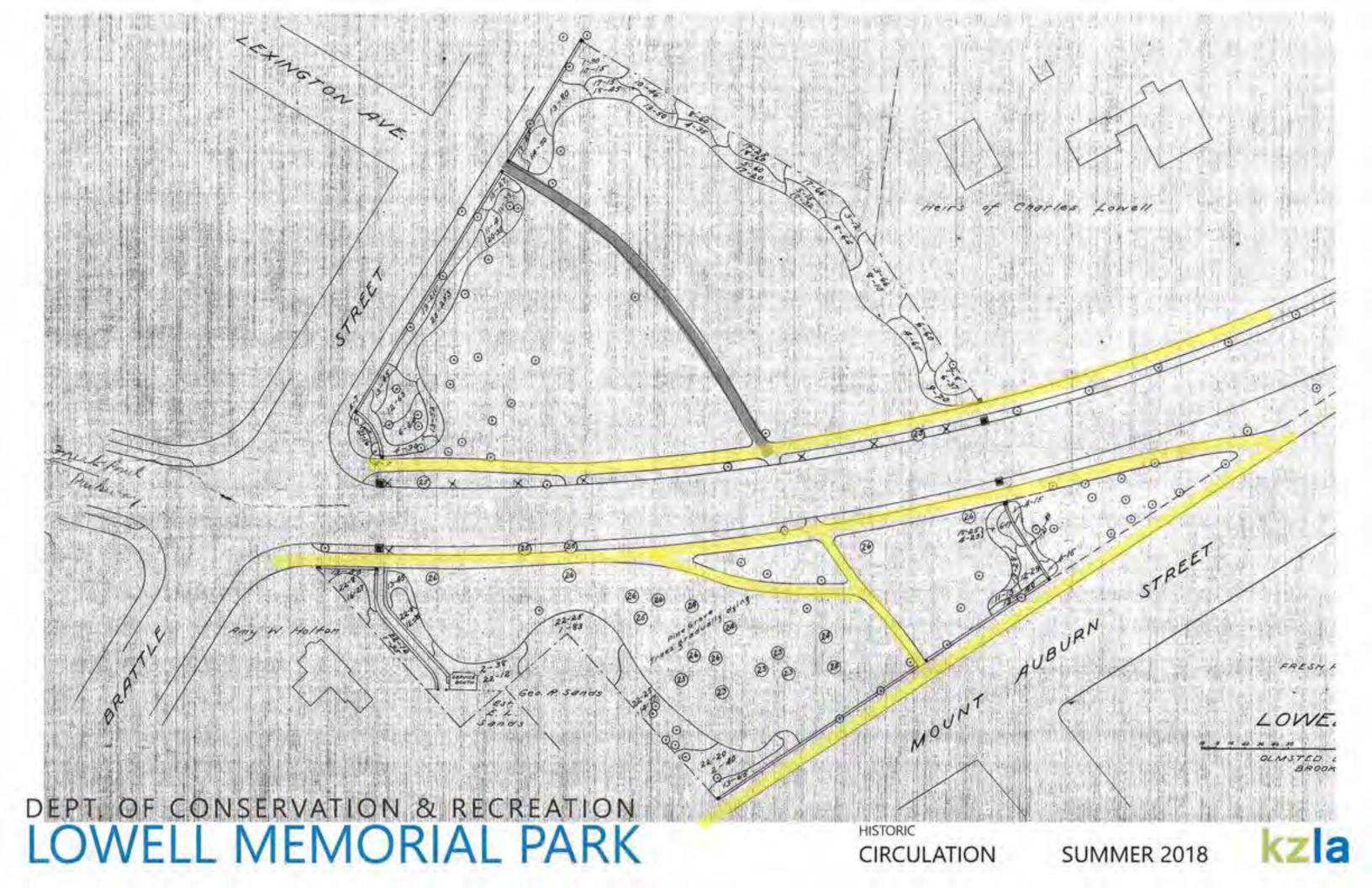




DESIRE LINES IN THE TURF AT THE TRIANGLE BETWEEN FRESH POND PARKWAY & MOUNT AUBURN STREET (NOTE THEY ARE MORE DISTINCT ALONG MOUNT AUBURN STREET FROM WHERE THE SIDEWALK ENDS AT THE PARK GATEWAY OUT TO THE PARKWAY)

DESIRE LINES









END PIER & CAPSTONES ABUTTING RESIDENCE ON MOUNT AUBURN STREET



CAST-IN-PLACE CAPSTONE REPLACEMENTS







WALL CONDITIONS: MORTAR LOSS, MISSING BRICKS, LOSS OF FLASHING, CRACKING, ETC.

WALL & PIERS SUMMER 2018









PIER/WALL TERMINATION AT FRESH POND PARKWAY NEAR BRATTLE STREET

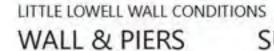
WALL
TERMINATION
AT BRATTLE
STREET/ FRESH
POND PARKWAY
INTERSECTION IN
LITTLE LOWELL











SUMMER 2018





PEDESTRIAN GATEWAY ON MOUNT AUBURN STREET





PIER/WALL TERMINATION AT FRESH POND PARKWAY IN LITTLE LOWELL

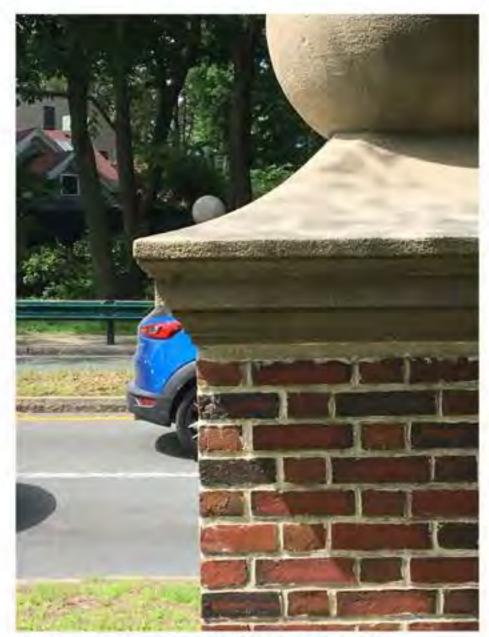






WALL & PIERS SUMMER 2018





MIS-ALIGNED PIERS AT WEST SIDE



VIEW OF LITTLE LOWELL EASTERN PIER FROM BIG LOWELL PIER



Stickney & Austin designed post and tablet c.1906. Enlargement at right (Courtesy DCR Archives)

IMAGES OF ORIGINAL PLAQUES FROM CLR





ENTRIES & PLAQUES WALL & PIERS



LEGEND



- · 48"-54" WIDE
- POOR CONDITION

CONCRETE:

- 60" WIDE
- FAIR CONDITION

CONCRETE:

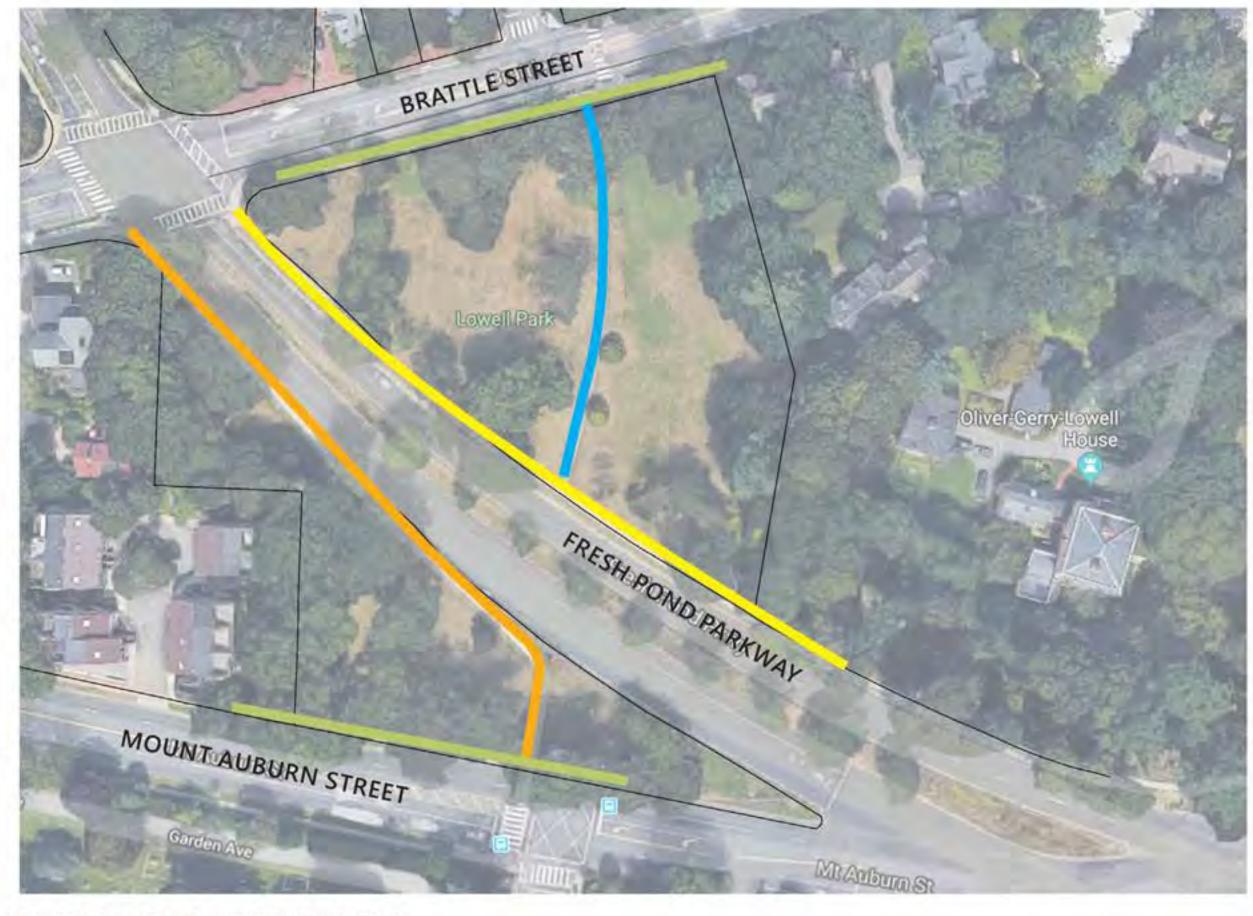
- 72" WIDE
- FAIR CONDITION

NON-DCR CONCRETE SIDEWALK:

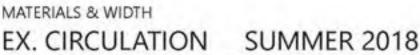
- · 50"-100" WIDE
- FAIR CONDITION

PAVEMENT CONDITIONS:

- GOOD = RELATIVELY NEW PAVEMENT WITH NO CRACKING, PATCHES, OR TRIPPING HAZARDS
- FAIR = LITTLE DELAMINATION (IF CONCRETE), LIMITED CRACKING OR PATCHES
- POOR = EVIDENCE OF HEAVING, CRACKING, AND/OR TRIPPING HAZARDS



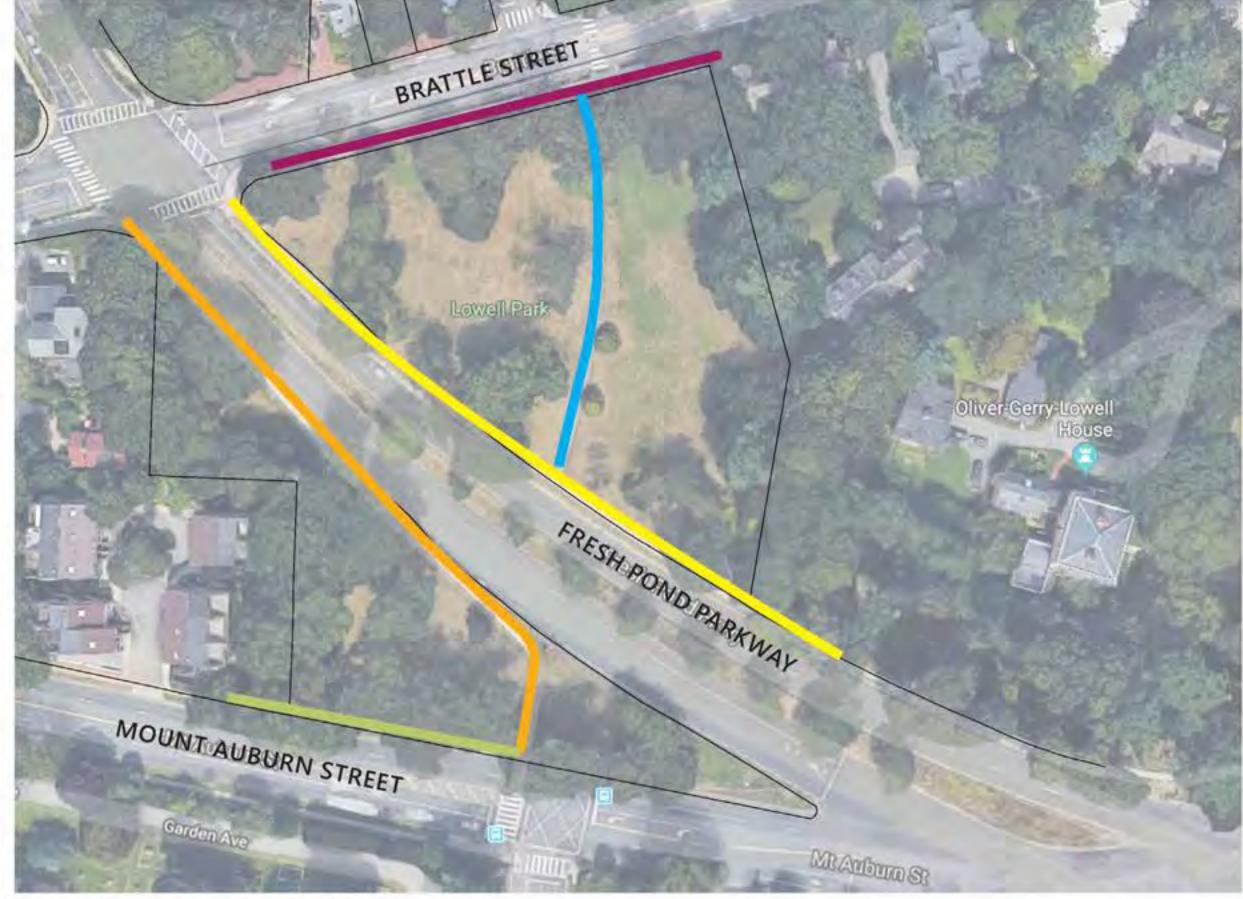






RECOMMENDATIONS

- BIG LOWELL
 INTERNAL PATHWAY:
 - WIDEN TO 60"
 - CONCRETE
 - BIG LOWELL PARKWAY SIDEWALK:
 - ENSURE CLEARANCE OF 72"
 - CONCRETE
 - PARKWAY SIDEWALK/
 INTERNAL PATHWAY:
 - ENSURE CLEARANCE OF 60"
 - CONCRETE
 - MOUNT AUBURN SIDEWALK:
 - CONSIDER EXTENDING TO PARKWAY (MASSDOT), OR SHORTEN
 - CONCRETE
- BRATTLE STREET SIDEWALK:
 - NO IMPROVEMENTS



LOWELL MEMORIAL PARK





ROAD SAFETY AUDIT & RECOMMENDATIONS BY MASSDOT (2016)

 Formalize third travel lane on Fresh Pond Parkway southbound near intersection with Mount Auburn Street

OR

- Reduce Fresh Pond Parkway southbound to two lanes & use gore striping to discourage travel in third lane
- Provide crosswalks across western leg of Mount Auburn Street & Fresh Pond Parkway at intersection with Gerry's Landing Road
- · Repair/reconstruct failing sidewalks



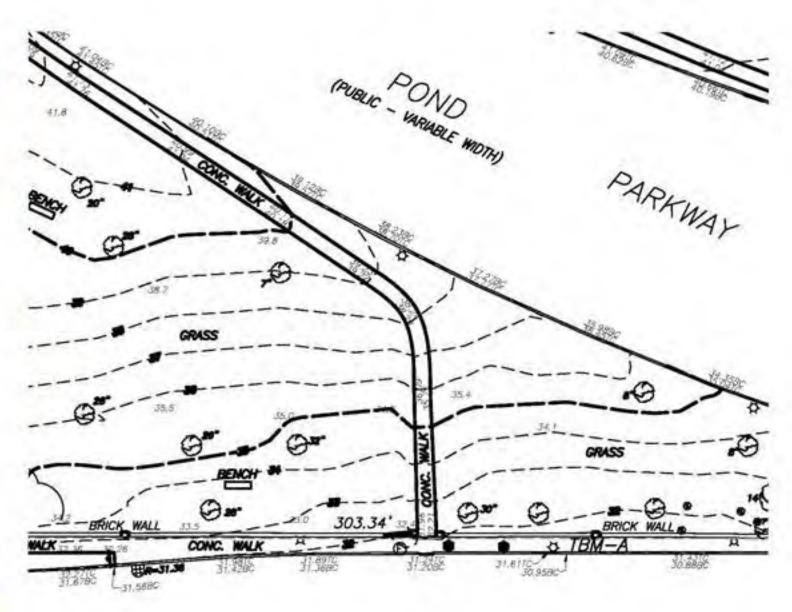






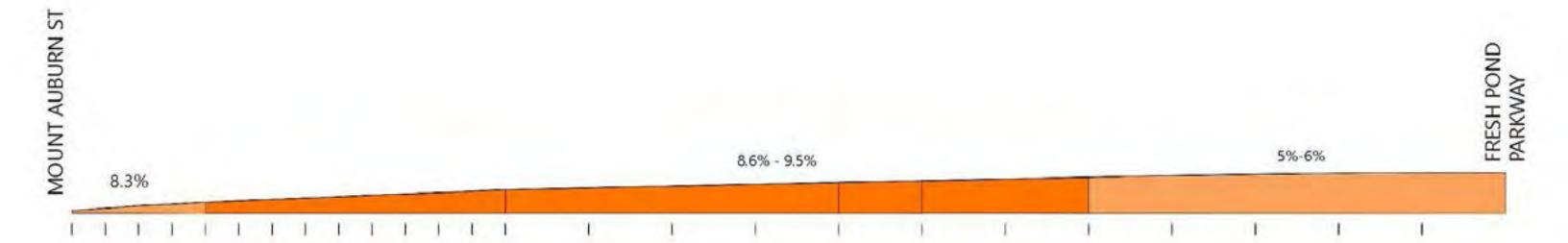


WALKWAY THROUGH LITTLE LOWELL



EXISTING CONDITIONS SURVEY





LEGEND

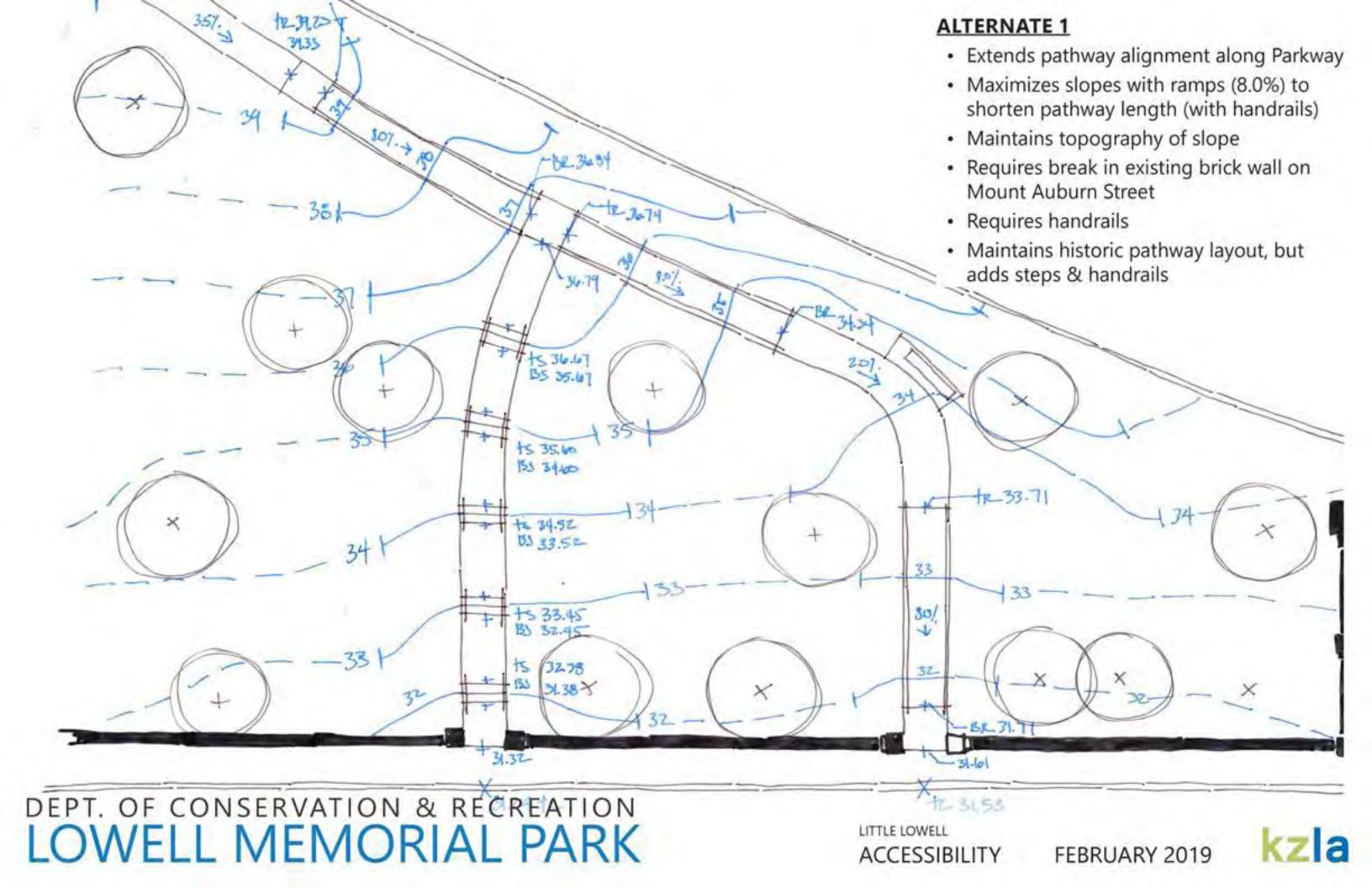
> 5.0% SEGMENTS (DOES NOT MEET ADAAG)

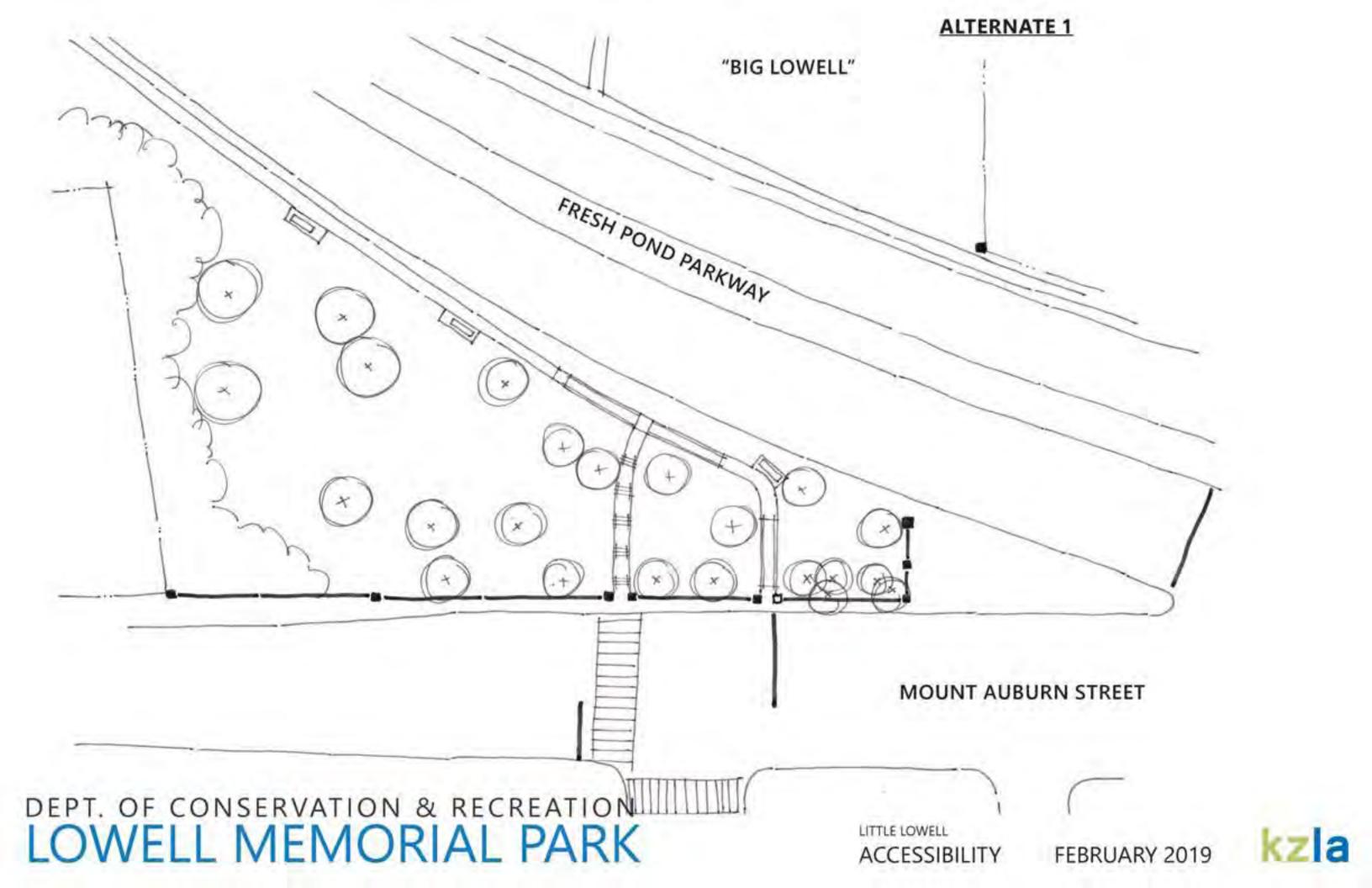


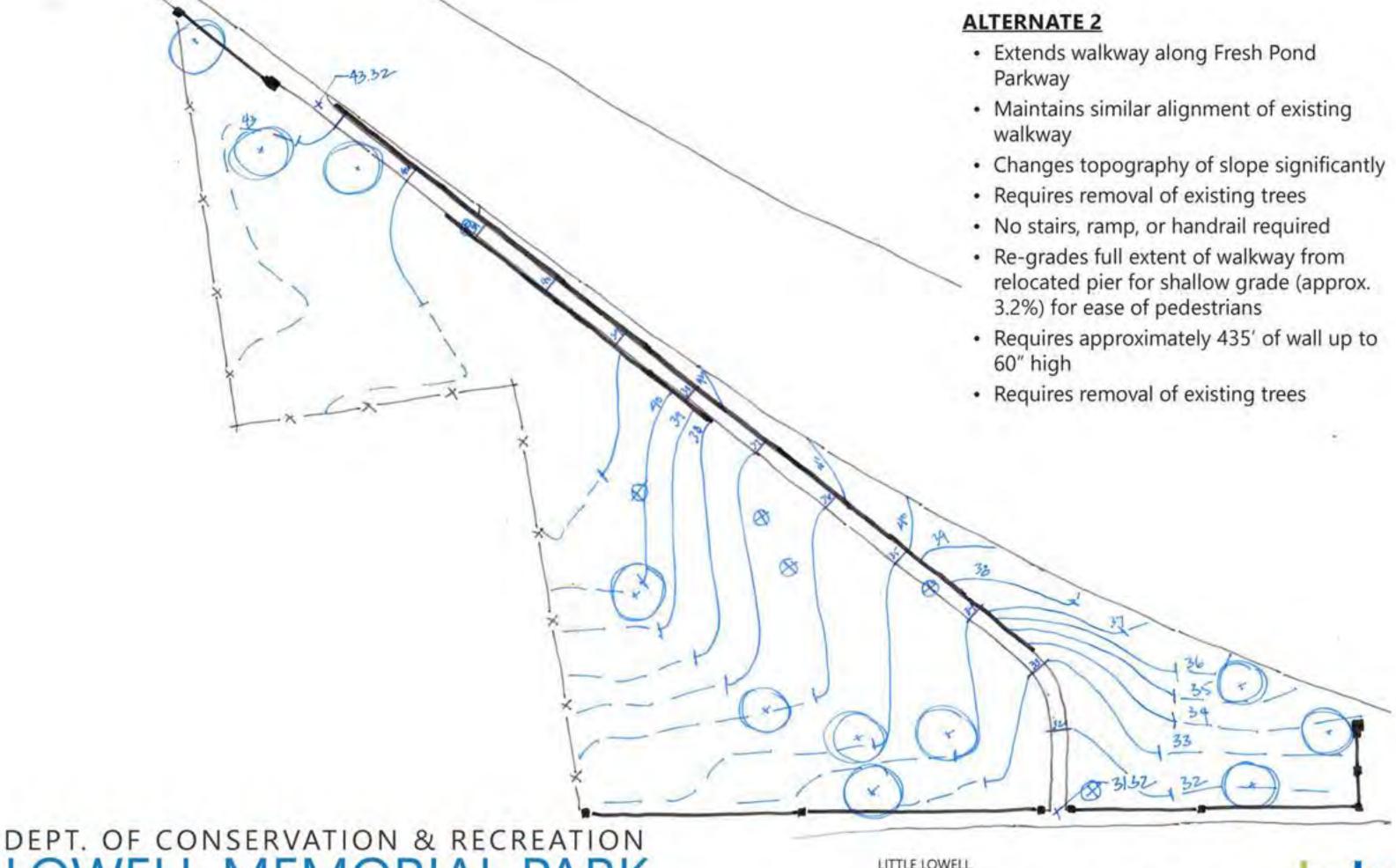
LOWELL MEMORIAL PARK

ACCESSIBILITY CIRCULATION



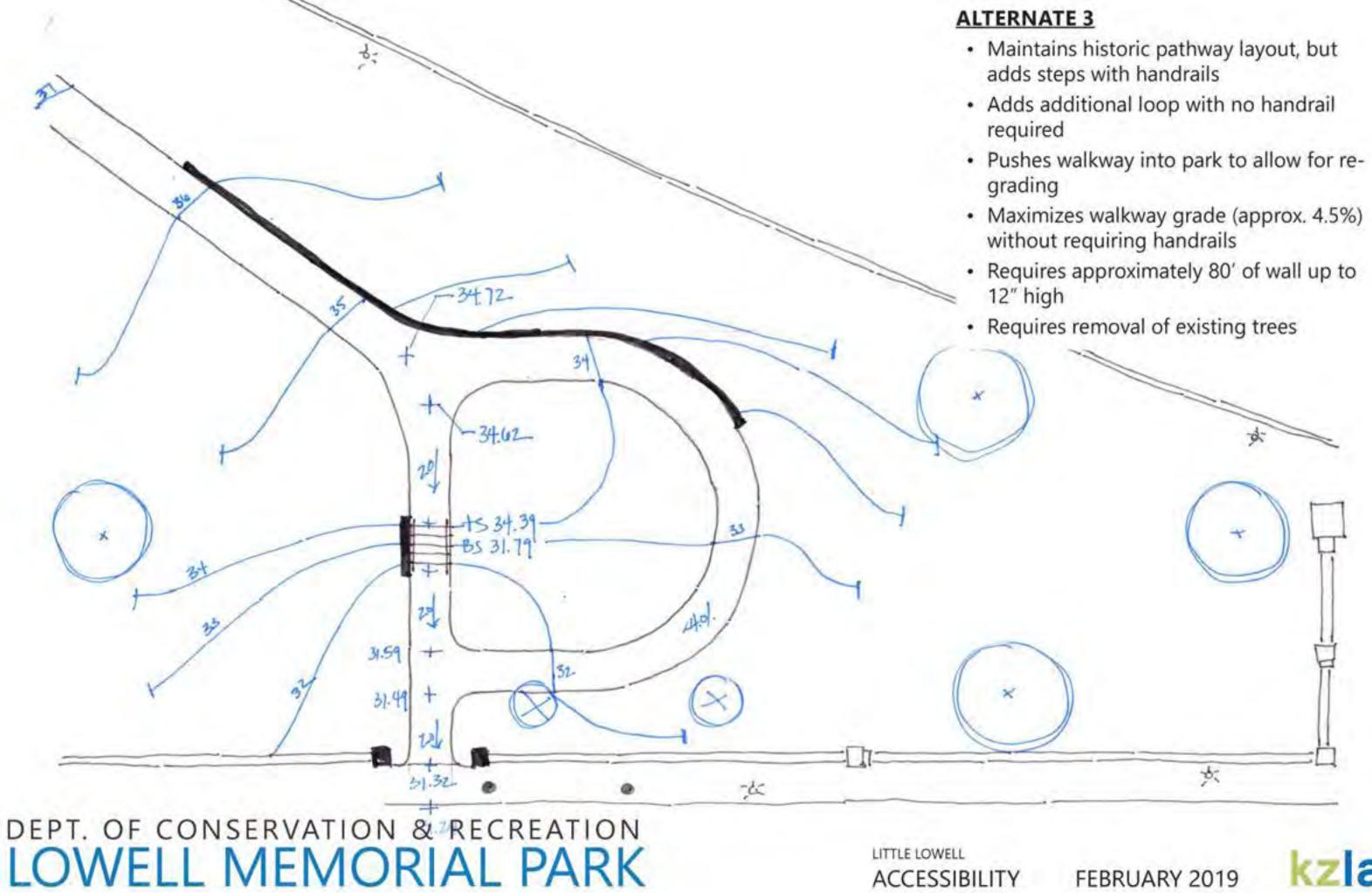


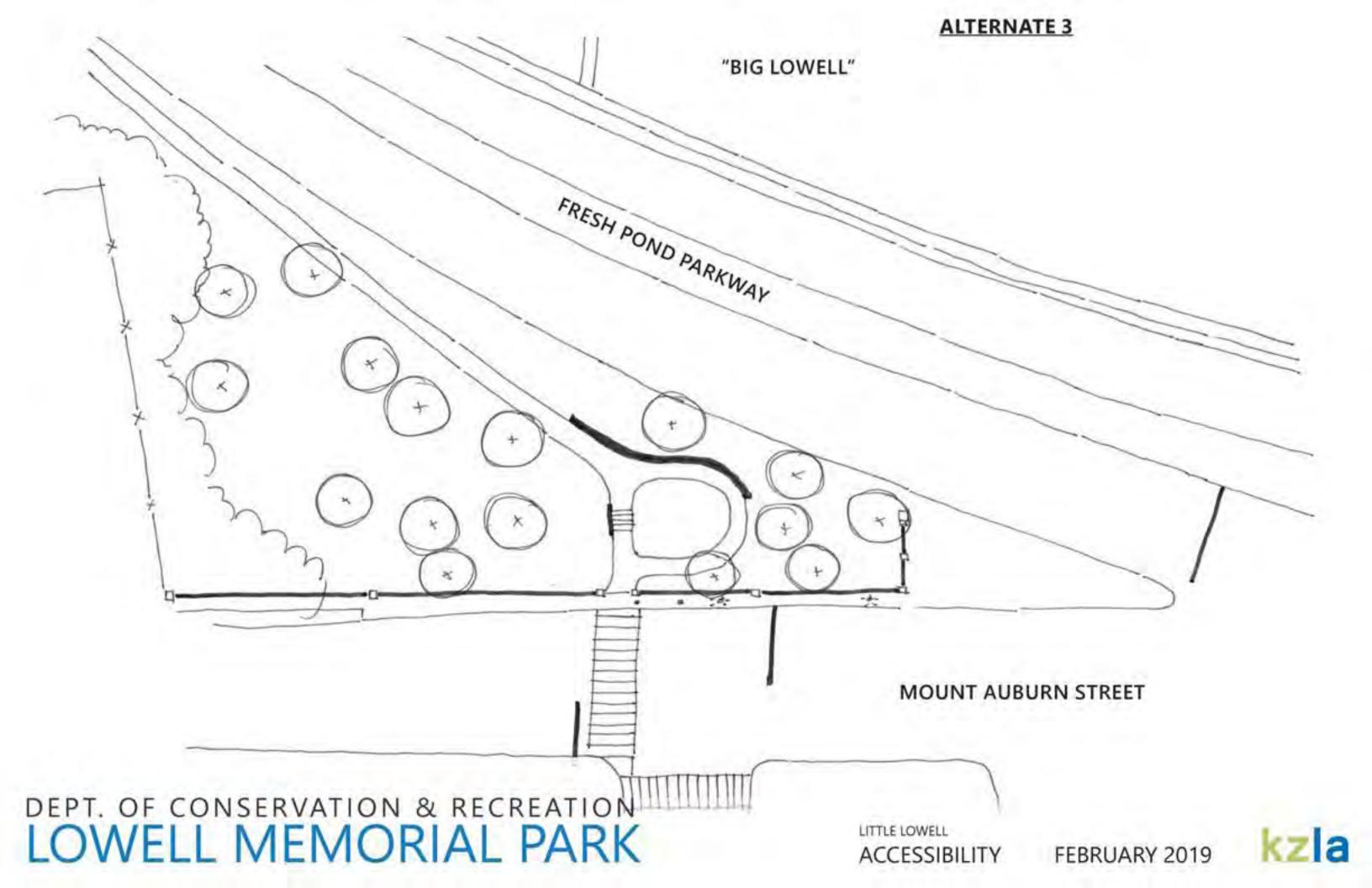


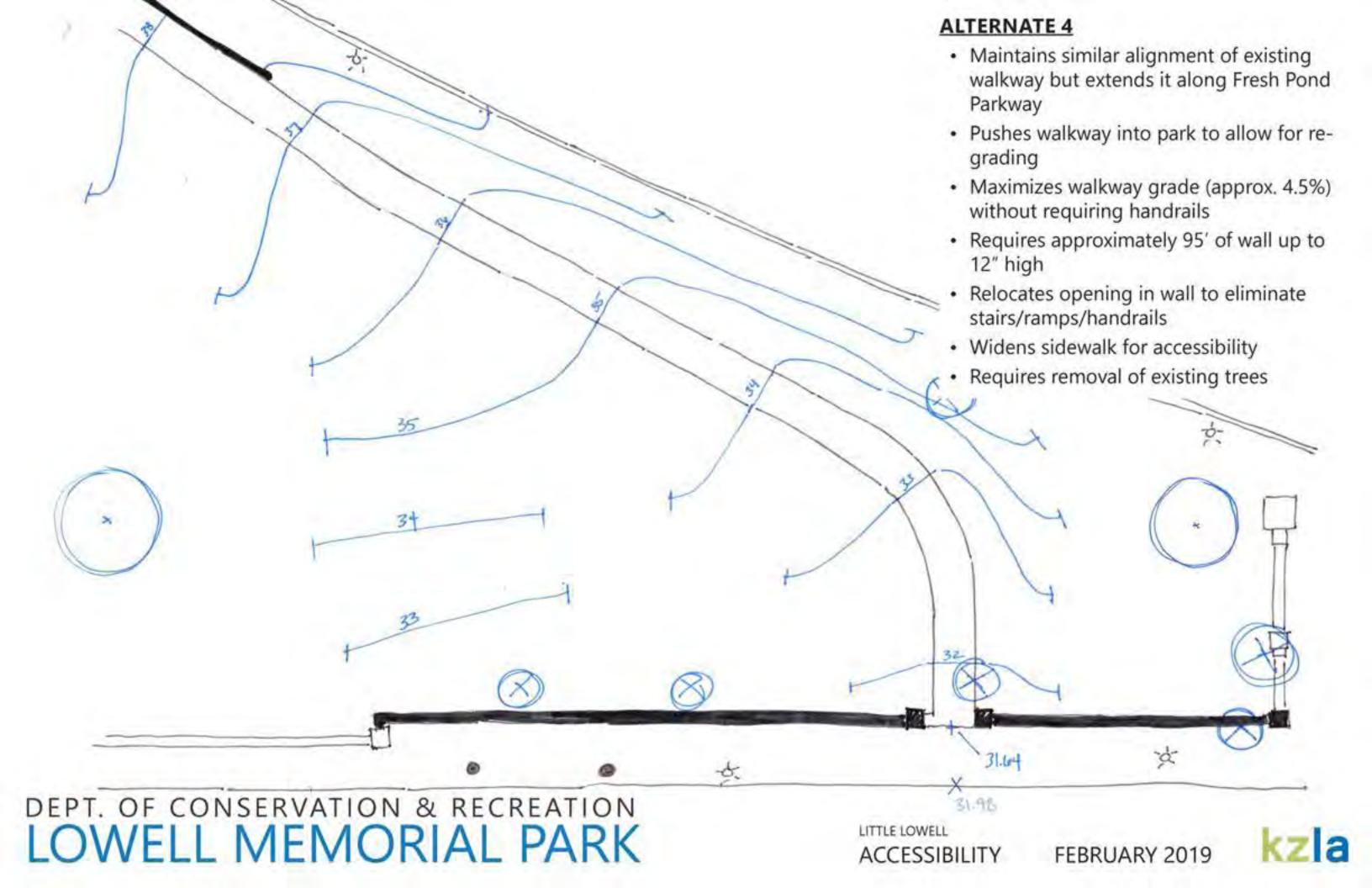


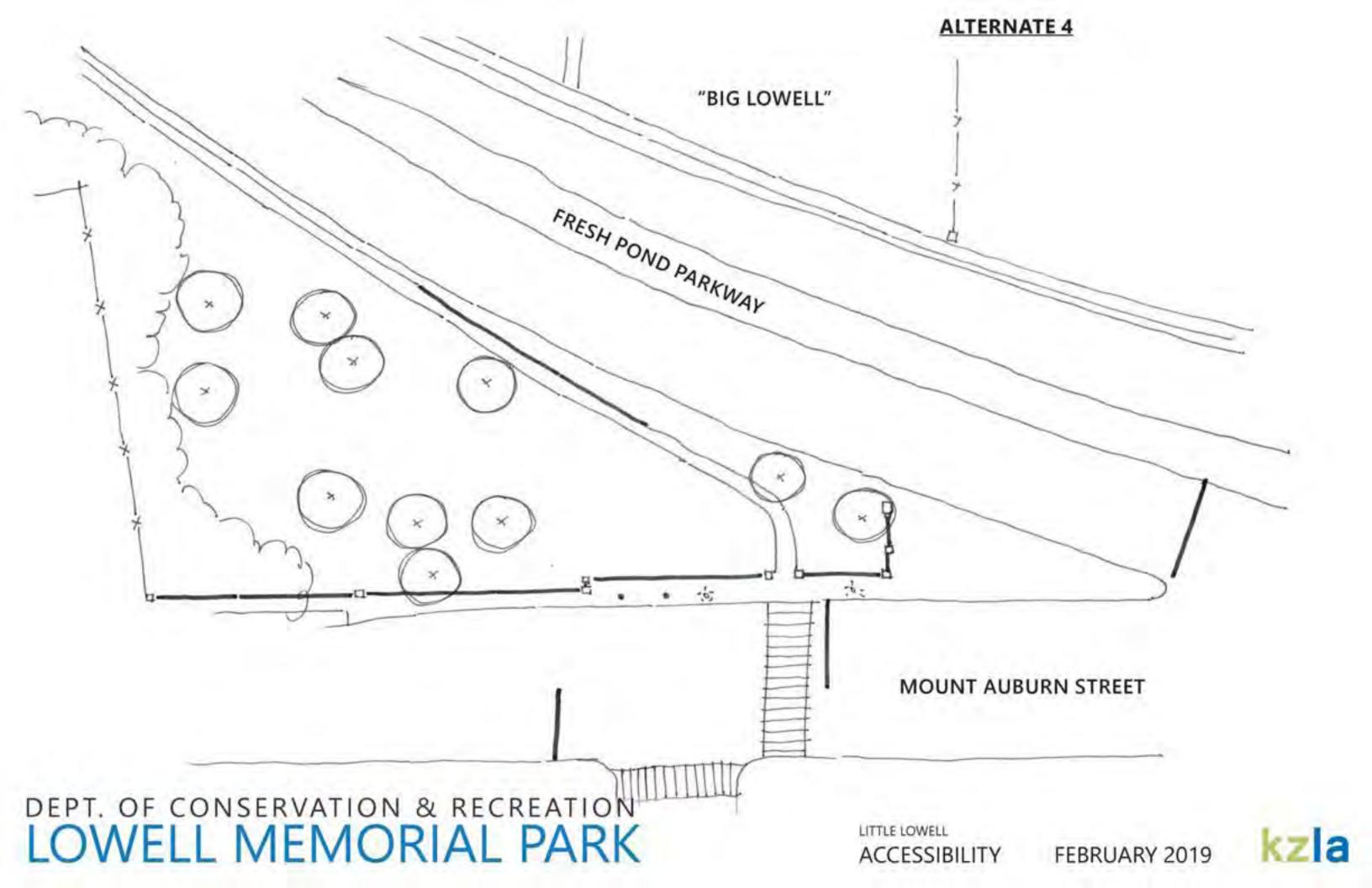
LITTLE LOWELL **ACCESSIBILITY**











BRICK WALL

BRICK PIER

RESTORED BRICK WALLS

RESTORED PIERS









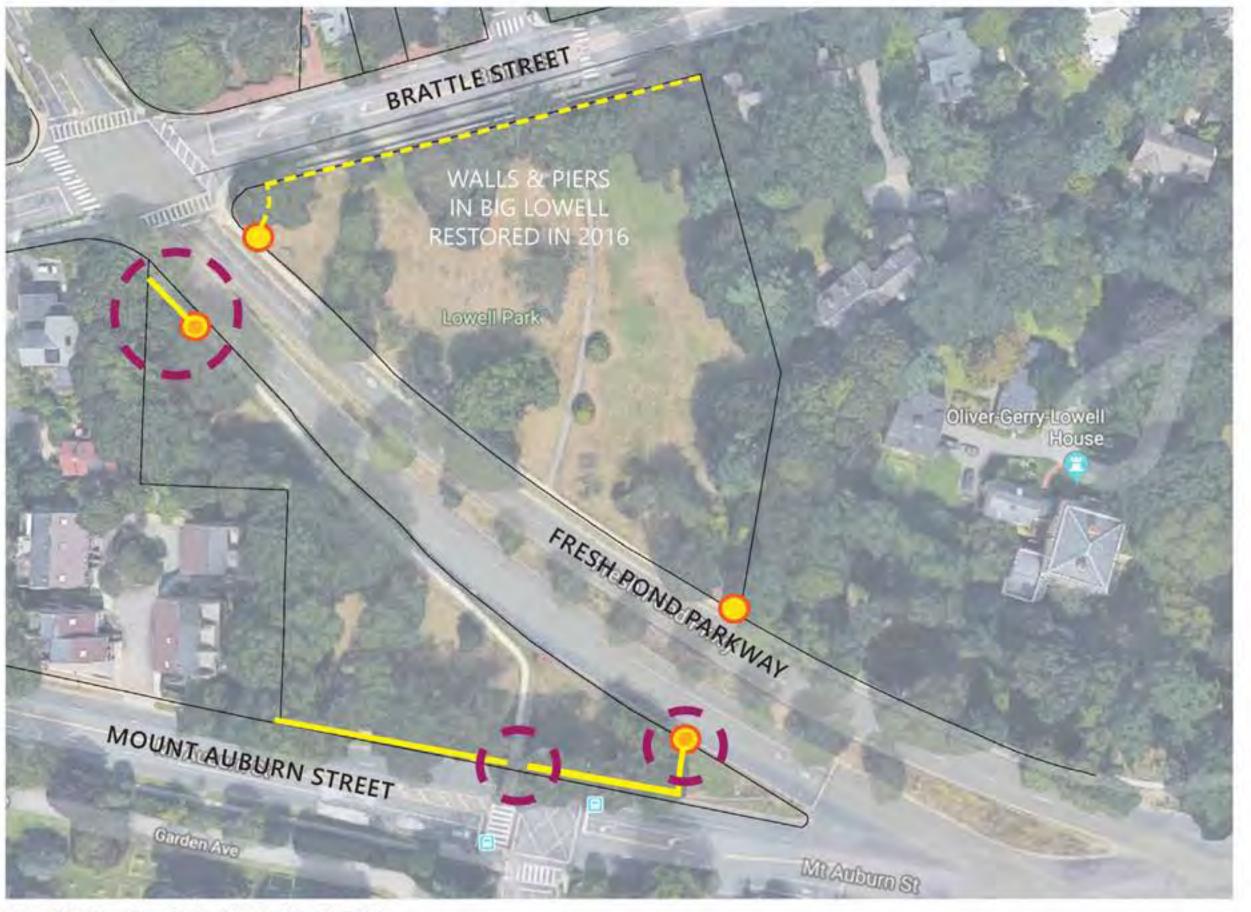
BRICK WALL

BRICK PIER

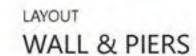
RESTORED BRICK WALLS

RESTORED PIERS

STUDY AREAS



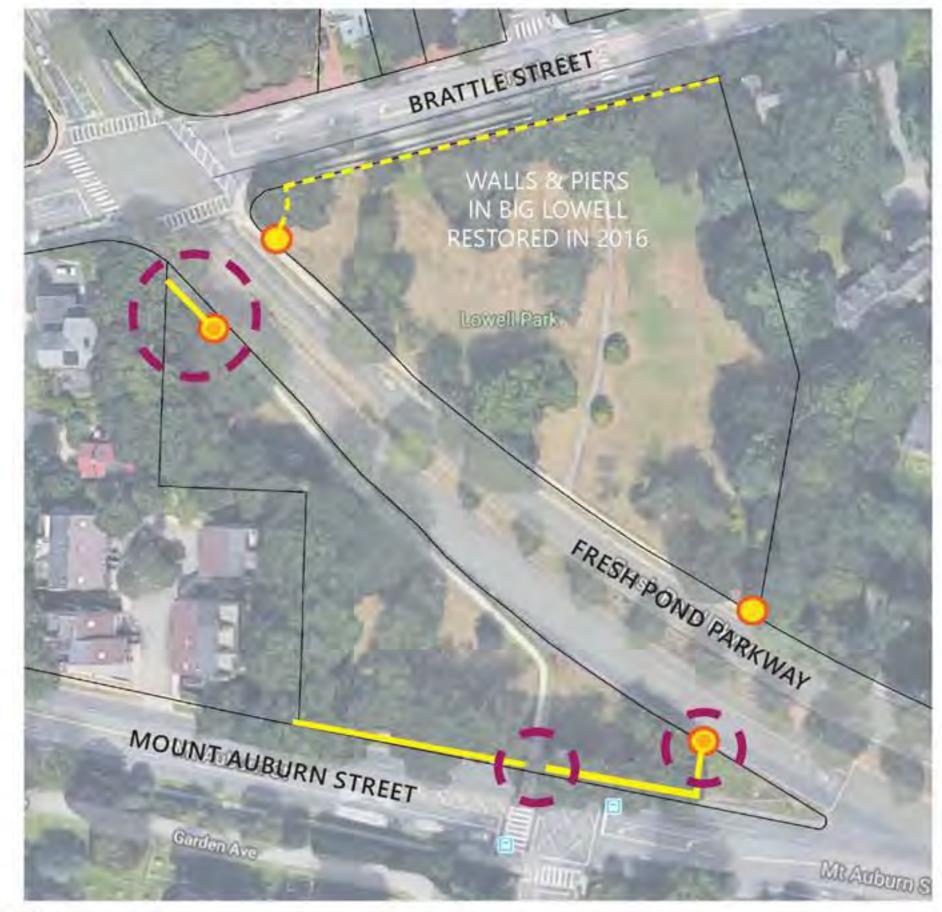






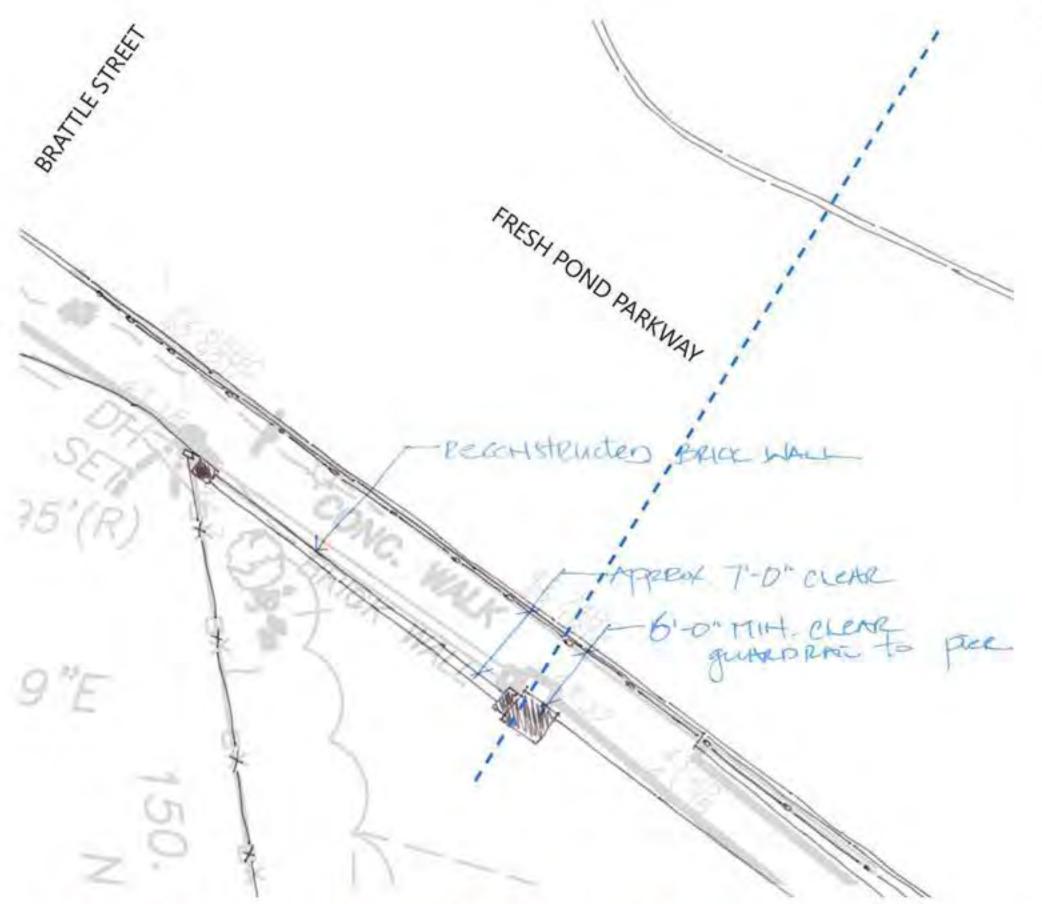
RECOMMENDATIONS FOR REPAIRS (2014)

- · Reset all limestone coping with dowels
- Replace missing limestone coping stones
- Remove, dispose & replace all flashing
- Replace missing brick
- Reconstruct severely cracked areas and displaced, dislodged & bulged wall segments
 - · Reuse original brick
- · Re-point the entire wall
- · Reset settled granite foundation stones
- · Rebuild wall at snapped headers (corners)
- Regrade soil around the wall where granite foundation stones are buried
- · Prune any vegetation touching the wall
- Fully clean entire wall to remove biological growth & any graffiti
- Install repair mortar in small spalls in coping stones









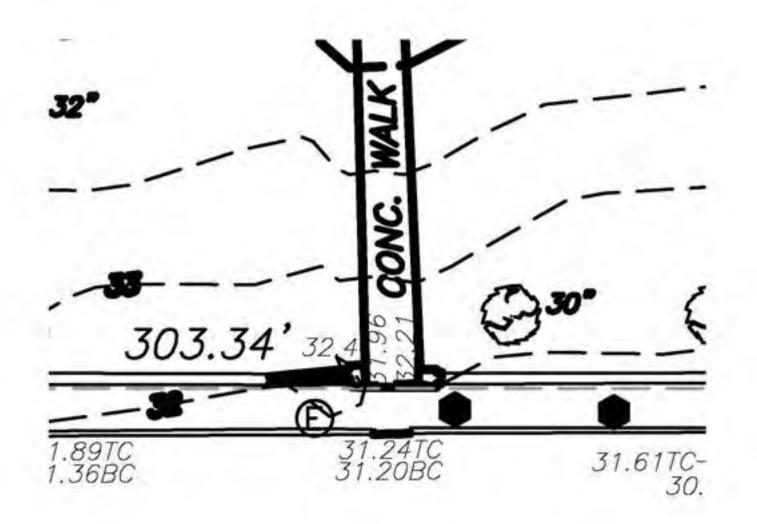
RECOMMENDATION

- Pushes wall and piers back to allow 6 feet clear at pier
- Realigns piers across Parkway
- Realigns wall segment parallel to Parkway
- · Shortens wall segment



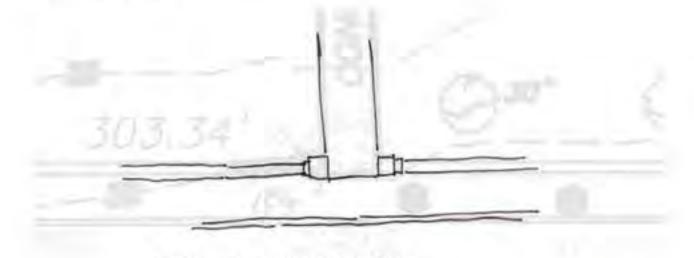








ALTERNATE 1



MOUNT AUBURN STREET

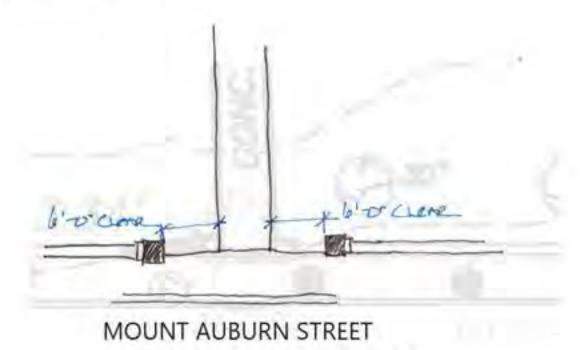
LOWELL MEMORIAL PARK

ALTERNATE 1

Reconstruct wall & piers in historic location



ALTERNATE 2



ALTERNATE 3



ALTERNATE 2

- · Reconstruct wall in historic location
- Offset piers by 6 feet on either side of pathway

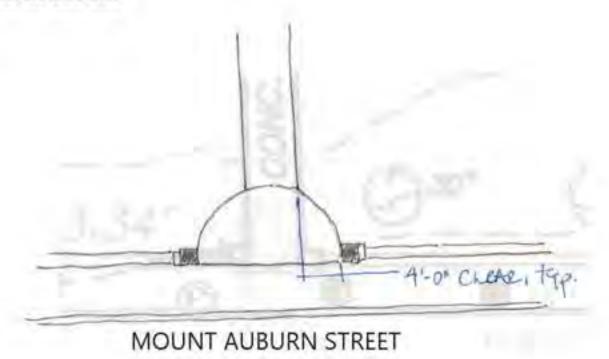
ALTERNATE 3

- · Reconstruct wall in historic location
- · Offset piers by 8 feet on either side of pathway
- Create new arced gateway (arc similar to Brattle Street/Parkway intersection of Big Lowell) with metal fence*

*May depend on preferred accessible walkway



ALTERNATE 4



ALTERNATE 4

- · Reconstruct wall in historic location
- Offset piers by 4 feet on either side of pathway
- · Create gateway space in hardscape

- ANCIENT MAPLE
- OAK
- NORWAY MAPLE
- ASH
- PINE
- HEMLOCK
- HOP HORNBEAM
- MISC. ORNAMENTAL

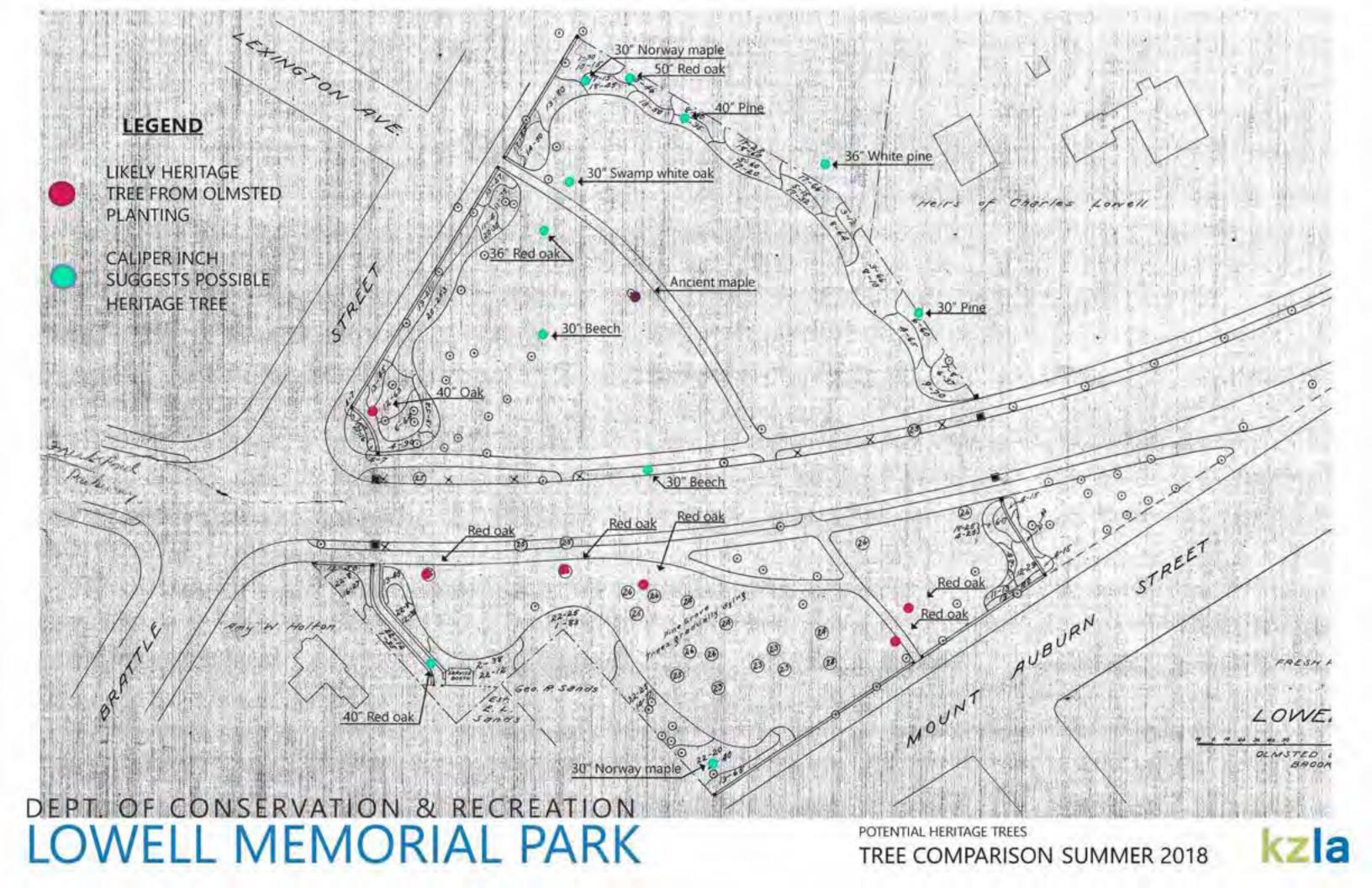














1906 Olmsted planting plan: tree & shrub massing

2018 Existing planting: tree & shrub massing

- TREE PLANTING
- SHRUB PLANTING





- DEAD, DYING, OR DAMAGED TREE
- OLMSTED BROTHERS PLAN
- TREES IN POOR LOCATION FOR PATHWAY RESTORATION
- TREES WITHIN 5 FEET OF WALLS
- TREE STUMPS TO BE REMOVED



LOWELL MEMORIAL PARK

PROPOSED REMOVAL
PLANTING

SUMMER 2018



EXISTING TREE

PROPOSED TREE



LOWELL MEMORIAL PARK

PROPOSED PLANTING

FEBRUARY 2019

OLMSTED TREES for BIG LOWELL

Crataegus crus-galli Cockspur hawthorn (3)

Crataegus phaenopyrum (C. cordata) Washington hawthorn (7)
 (Thornless)

Prunus triloba Double-flowering plum (8)

• Tilia x europaea (T. vulgaris) European linden (23)

ADDITIONAL TREES for BIG LOWELL

Quercus rubra Red oak: Street tree

OLMSTED TREES for LITTLE LOWELL

Crataegus crus-galli Cockspur hawthorn (2)

Pinus nigra (P. austriaca) Austrian pine (22)

Tilia x europaea (T. vulgaris) European linden (23)

Quercus rubra Red oak (26)

* Massachusetts listed invasive/prohibited plant species

ADDITIONAL TREES for LITTLE LOWELL

· Additional trees from DCR recommended list







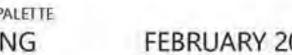
OLMSTED SHRUBS for BIG LOWELL

 Philadelphus grandiflorus 	Mock orange (1/2/14)
 Kerria japonica 	Japanese kerria (5)
 Chaenomeles japonica (Cydonia japonica) 	Flowering quince (9)
 Physocarpus opulifolius (Spiraea opulifolia) 	Ninebark (11/14)
 Symphoricarpos orbiculatus (S. vulgaris) 	Indian currant/Coralberry (13/17/19)
 Viburnum lantana 	Wayfaring tree (16)
 Spiraea x arguta 	Sharp-leaved spirea (18)
 Pieris floribunda (Andromeda floribunda) 	Lily-of-the-valley bush (19/20
 Diervilla trifida 	Bush honeysuckle (19/20)
 Ilex crenata 'Microphylla' 	Dwarf-leaved Japanese holly (19/20)
 Viburnum opulus 'Nana' 	Dwarf cranberry bush viburnum (21)
	 Kerria japonica Chaenomeles japonica (Cydonia japonica) Physocarpus opulifolius (Spiraea opulifolia) Symphoricarpos orbiculatus (S. vulgaris) Viburnum lantana Spiraea x arguta Pieris floribunda (Andromeda floribunda)

OLMSTED SHRUBS for LITTLE LOWELL

 Philadelphus grandiflorus 	Mock orange (1/2/14)
 Forsythia suspena var. fortunei (F. fortunei) 	Weeping forsythia (6/12)
 Physocarpus opulifolius (Spiraea opulifolia) 	Ninebark (11/14)
 Symphoricarpos orbiculatus (S. vulgaris) 	Indian currant/Coralberry (13)
 Viburnum lantana 	Wayfaring tree (16)
 Spiraea x arguta 	Sharp-leaved spirea (18)
 Viburnum opulus 'Nana' 	Dwarf cranberry bush

viburnum (21)





NORWAY MAPLES

KNOTWEED

BAMBOO

- ENGLISH IVY













WATER FOUNTAIN & VAULT



IN-PARK SITE LIGHTING



PARK RULES SIGNAGE

*Not to be replaced



SITE BENCH

SIGN

WATER FOUNTAIN

VAULT

STREET LIGHT

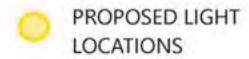
NEW STREET LIGHT

















SPRING CITY LIGHTING: PARK CENTRAL



STERNBERG LIGHTING: WARRENVILLE

LOWELL MEMORIAL PARK



SPRING CITY LIGHTING: RIVERSIDE



STERNBERG LIGHTING: AVENUE



IN-PARK SITE LIGHTING
SITE FURNISHINGS FEBRUARY 2019





DCR SHURCLIFF BENCH



VICTOR STANLEY: C-138



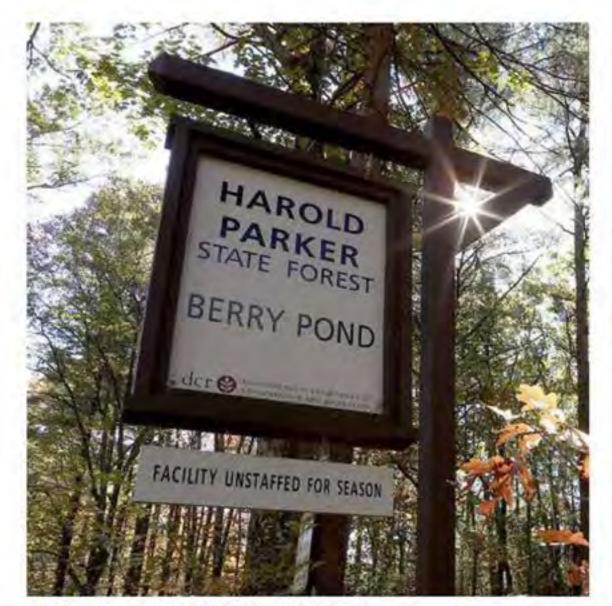
CANTERBURY DESIGNS: 1890 BENCH



LOWELL MEMORIAL PARK

SITE FURNISHINGS FEBRUARY 2019







SAMPLE DCR PARK SIGNAGE



INTERPRETIVE SIGNAGE

HISTORIC WALL **PLAQUES**



SIGNAGE





TURF ISSUES

REMOVE TURF & MULCH

STUMPS

DEPRESSIONS

★ BROKEN
PAVEMENT

TREE IN WALL

OLD LIGHT CONNECTION



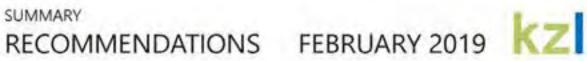


RECOMMENDATION

- Rebuild walls & piers in Little Lowell
- Recreate Little Lowell entry on Mount Auburn Street
- Improve pedestrian circulation in and around the park
 - Widen pathway through Big Lowell
 - Create universally accessible pathway through Little Lowell
- Re-establish Olmsted Brothers planting design throughout the park
 - Restore shrub border
 - Restore tree massing balance
 - Eliminate invasive & aggressive plant species
- New site lighting plan
- Update site amenities, including benches & signage
 - Restore historic plaques
- Rehabilitate turfgrass areas



SUMMARY



Questions & Answers

Additional Information

For more information: www.mass.gov/dcr/past-public-meetings

If you have comments or suggestions on this project:

Submit online: www.mass.gov/dcr/public-comment

Write: Department of Conservation and Recreation

Office of Public Outreach

251 Causeway Street, Suite 600

Boston, MA 02114

Deadline: April 2, 2019

Note: Public comments submitted to DCR may be posted on the DCR website in their entirety, and no information, including contact information, will be redacted.

If you wish to subscribe to a DCR general information or project-related listsery: contact DCR's Office of Community Relations at 617-626-4973 or Mass.Parks@state.ma.us.