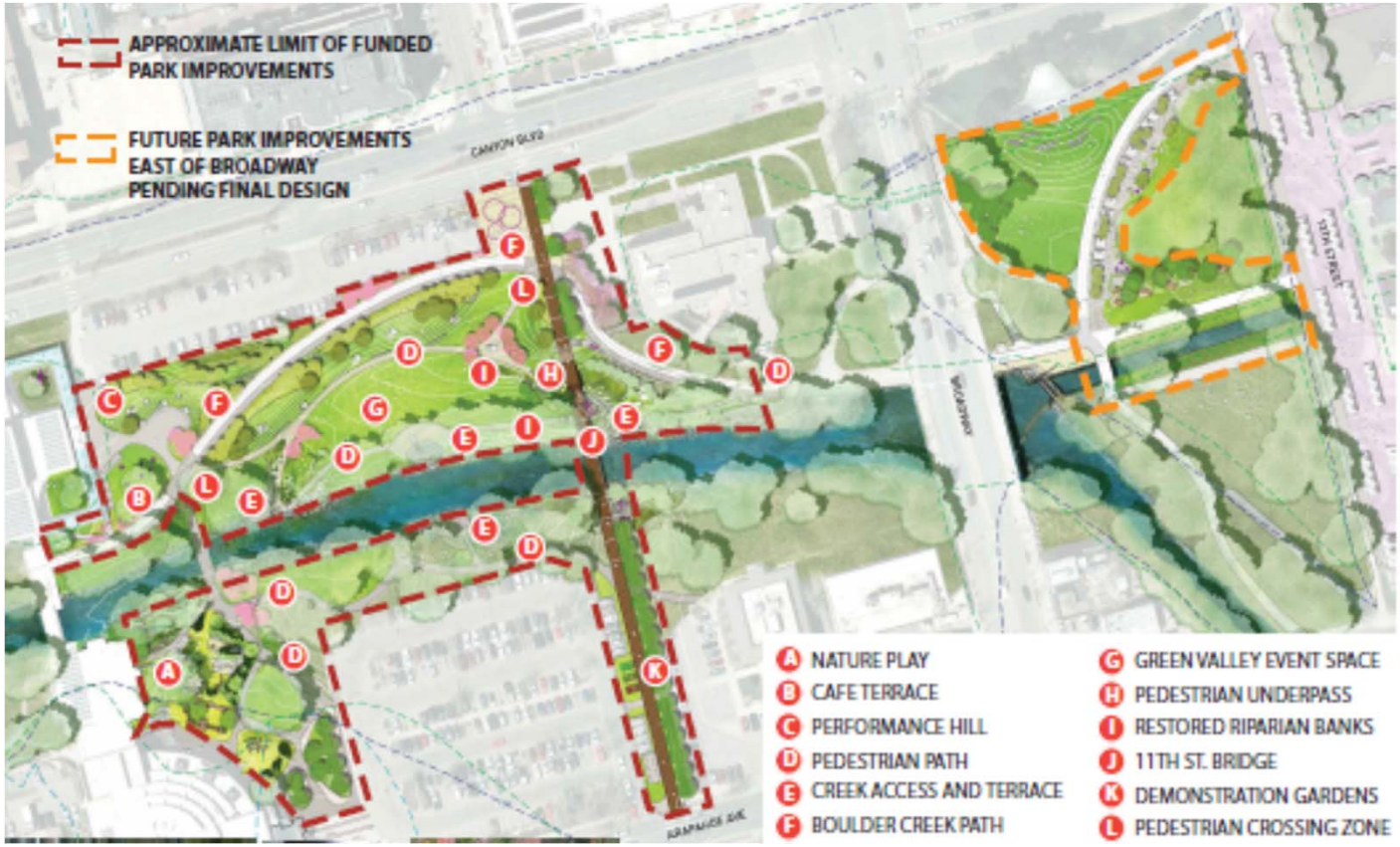
City Council Update
Aug. 16, 2016

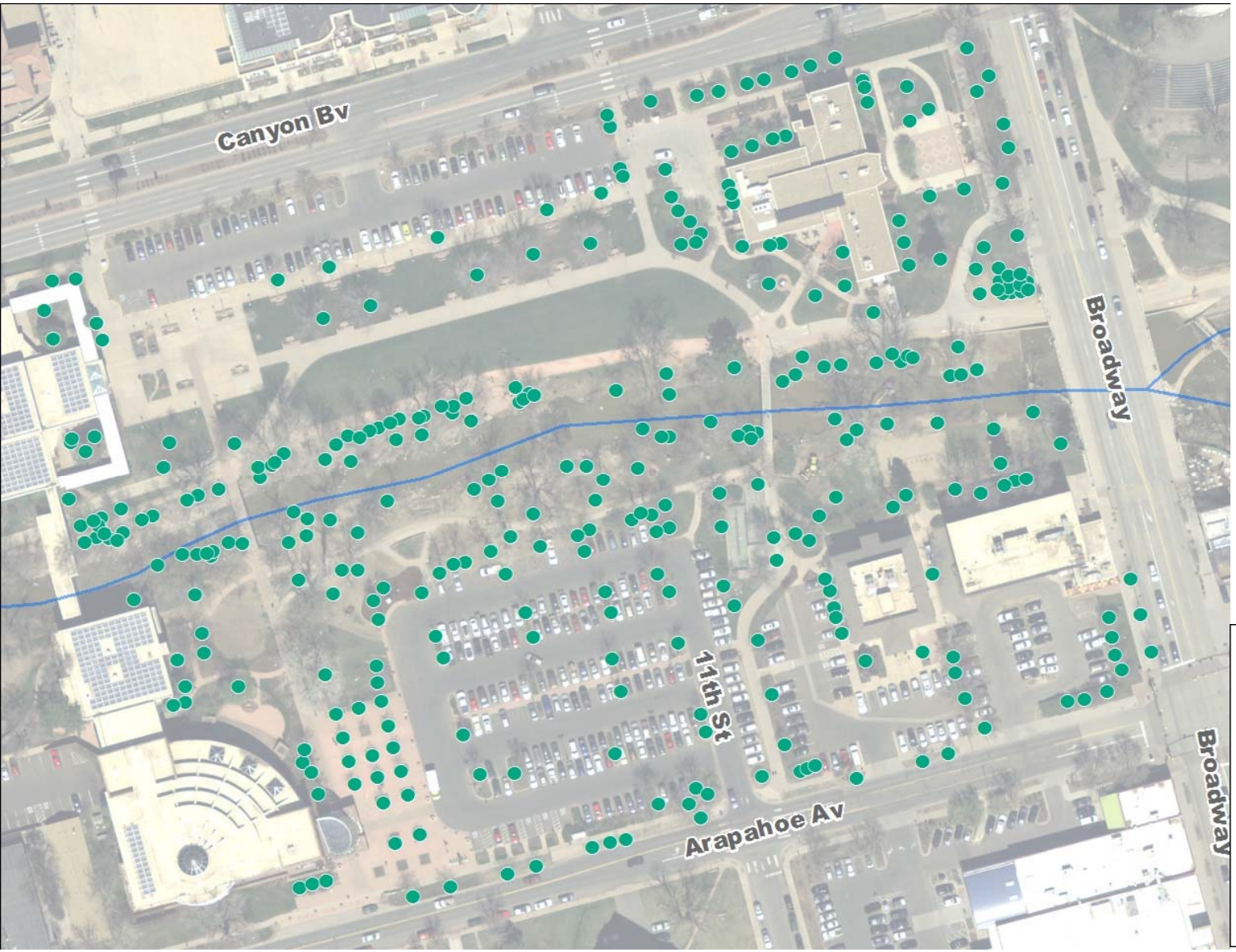
Phase 1 Construction Launch

Construction Launch: Staging & Access



BOULDER CIVIC AREA PARK DEVELOPMENT
PHASE 1 CONSTRUCTION PHASING AND LOGISTICS PLAN
September 2016

ATTACHMENT B

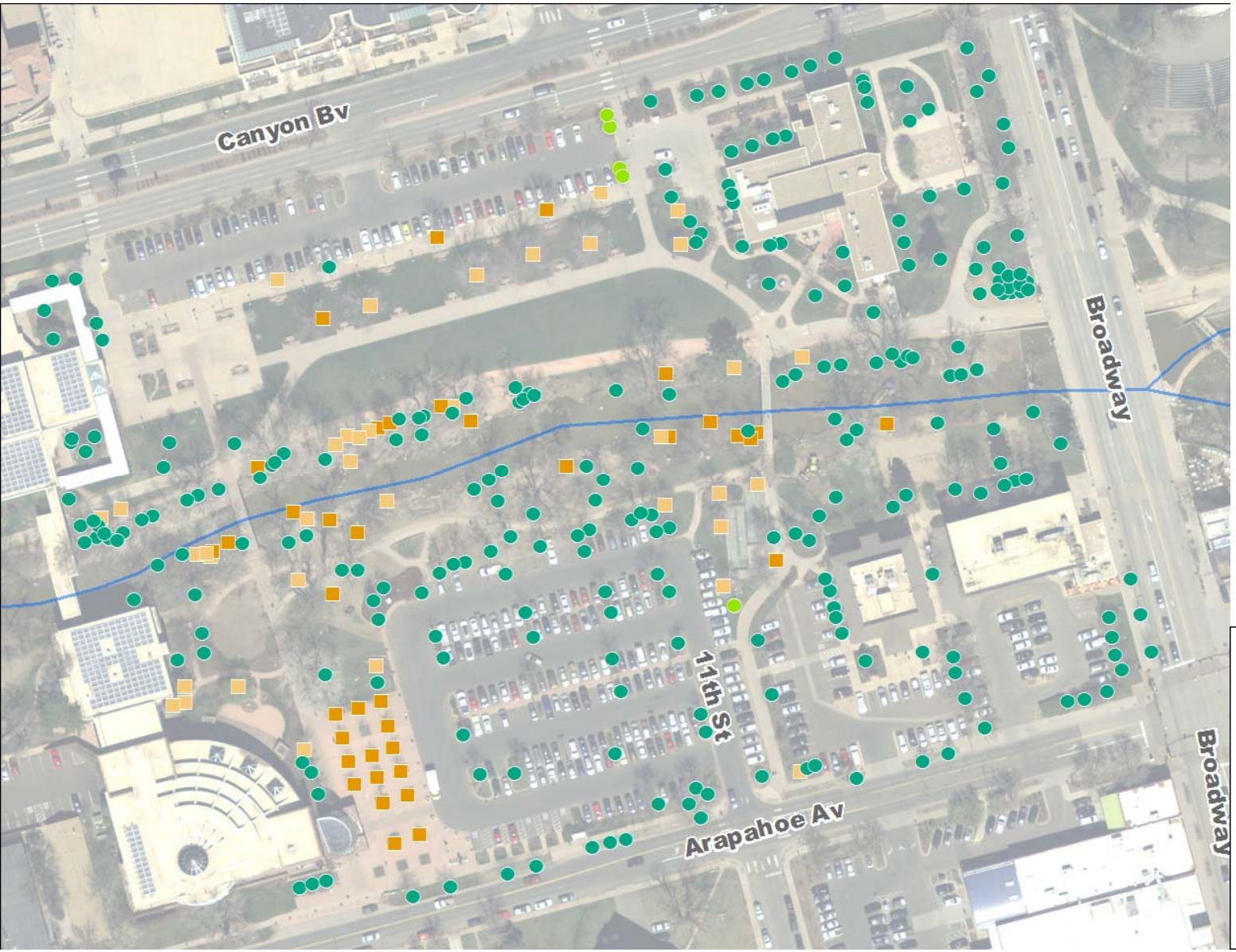


Construction Tree Impact

- **355 Trees in Phase 1 Construction Area**

Boulder Civic Area

- Existing Trees
- New Trees
- Trees to Transplant
- Tree Impact (Health)
- Tree Impact (Other)



Construction Tree Impact

- 355 Trees in Phase 1 Construction Area
- 98 Removals
  - 54 in Creek Buffer
  - 13 mature growth of which 8 are in poor health
- 257 Retained
  - 5 Relocations
  - 32 mature growth

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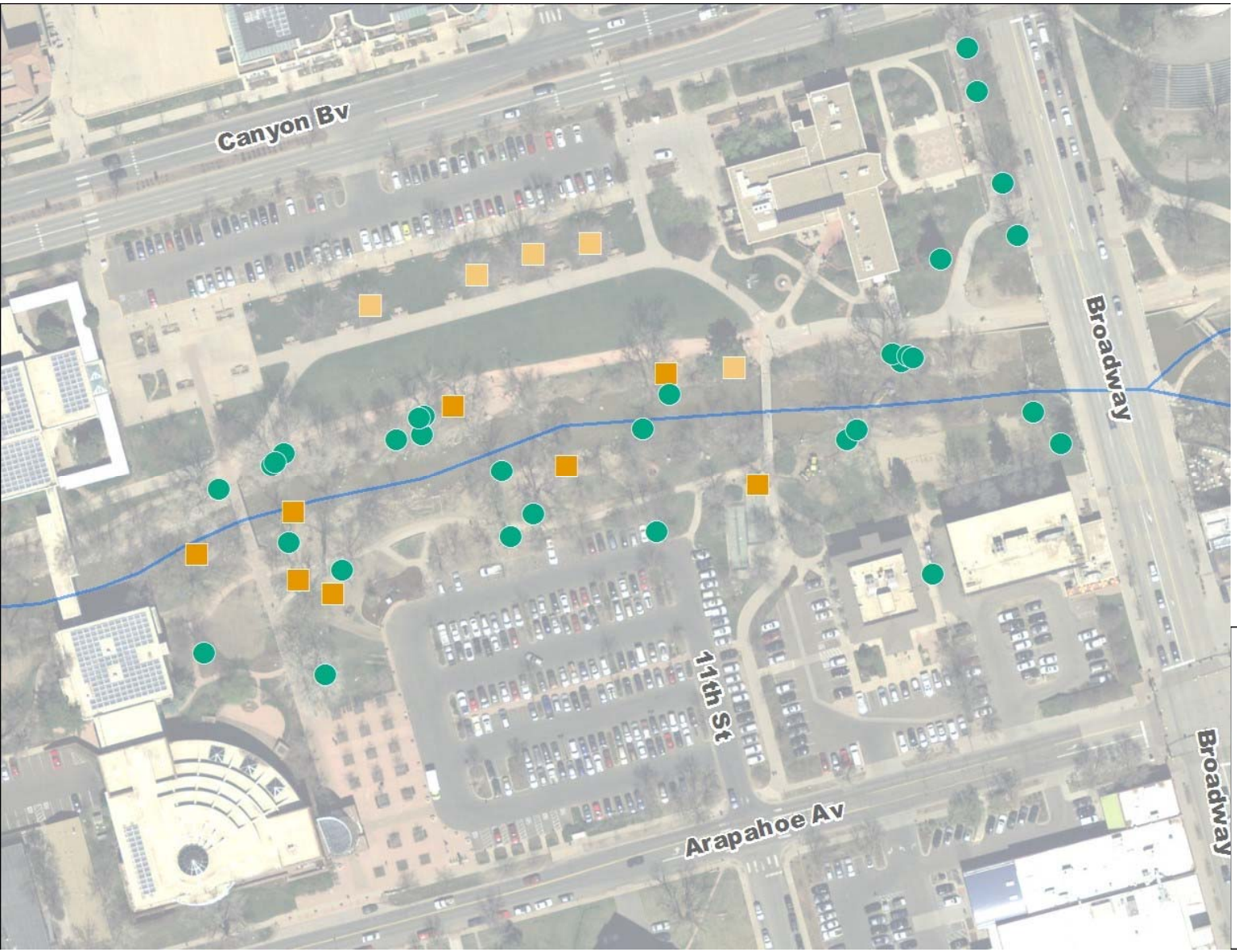

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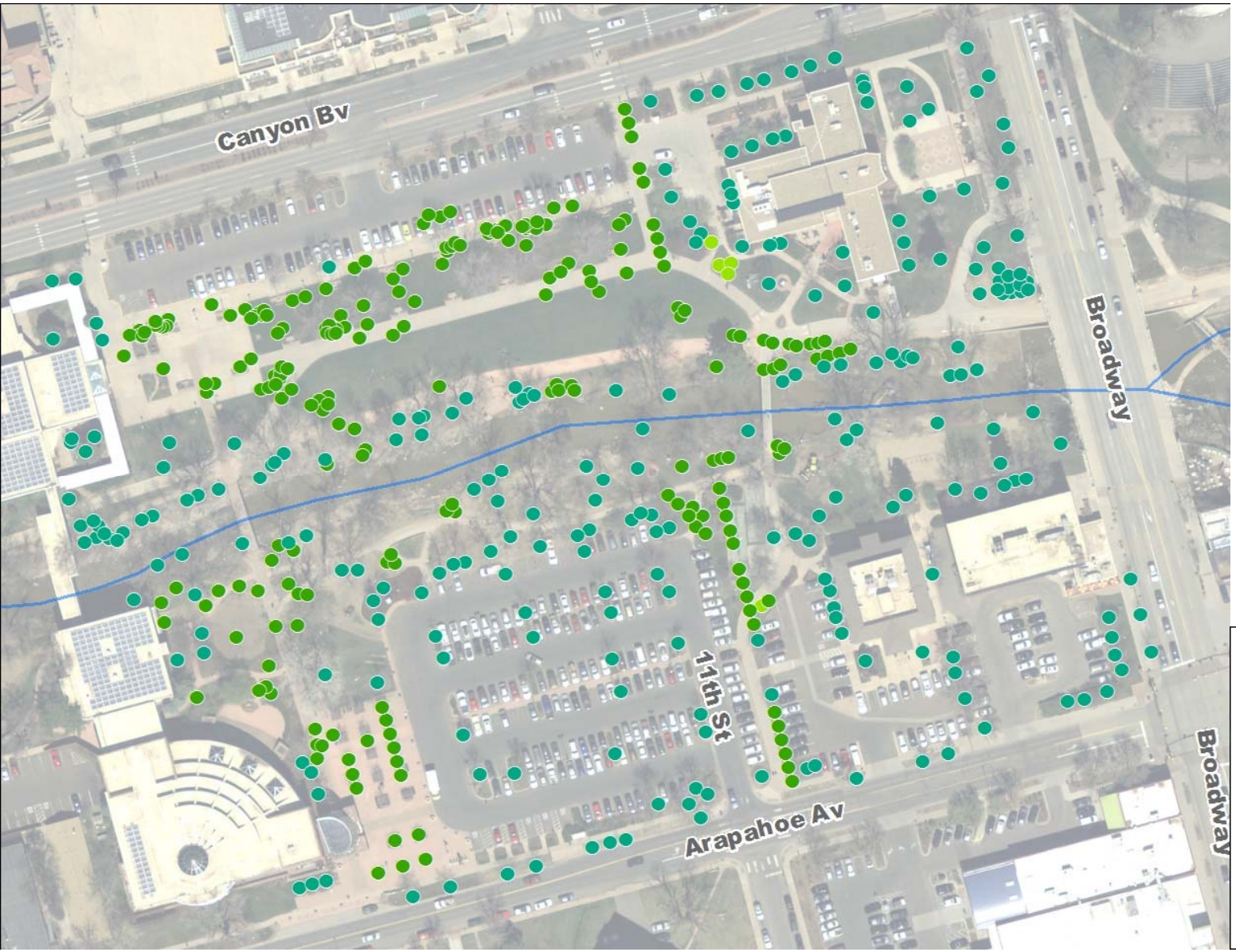

- **Net Increase of 154 trees**
- **2” caliper minimum**
- **23 species**
  - **Ex; Highland Park Bigtooth Maples, Ginkgo, Kentucky Coffee Trees, Russian Hawtorn, Lanceleaf Cottonwoods**
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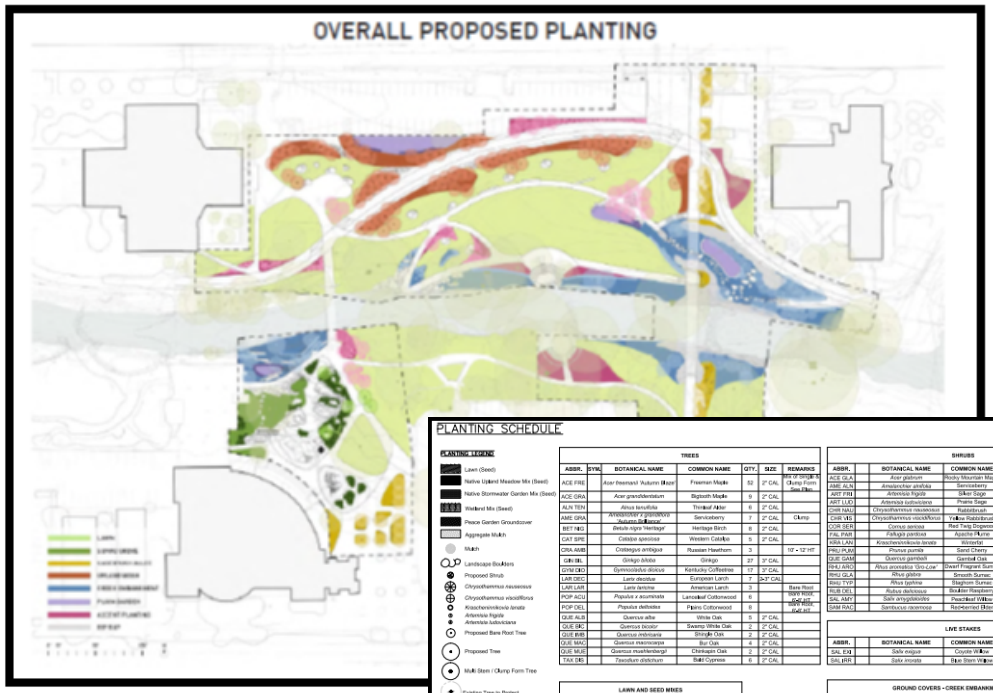

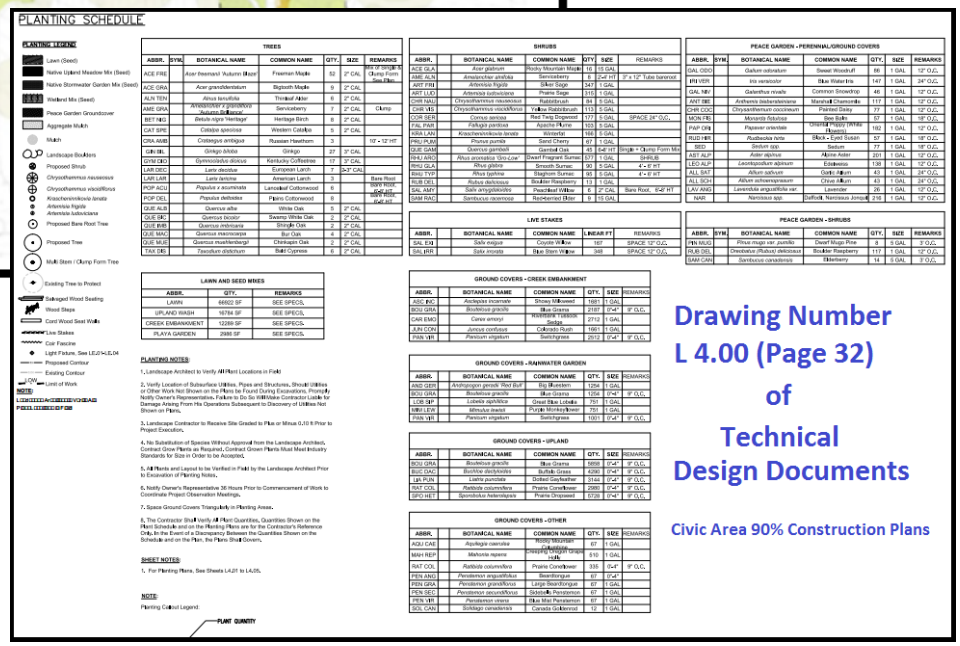

PLANTING SCHEDULE

PLANTING LEGEND

- Lawn (Seed)
- Native Upland Meadow Mix (Seed)
- Native Stormwater Garden Mix (Seed)
- Wetland Mix (Seed)
- Peace Garden Groundcover
- Aggregate Mulch
- Mulch
- Landscape Boulders
- Proposed Shrub
- Chrysothamnus nauseosus
- Chrysothamnus viscidiflorus
- Krascheninnikovia lanata
- Artemisia frigida
- Artemisia ludoviciana
- Proposed Bare Root Tree
- Proposed Tree
- Multi Stem / Clump Form Tree
- Existing Tree to Protect
- Salvaged Wood Seating
- Wood Steps
- Cord Wood Seat Walls
- Live Stakes
- Coir Fascine
- Light Fixture, See LE.01-LE.04
- Proposed Contour
- Existing Contour
- Limit of Work

NOTE:

TREES

ABBR.	SYM.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
ACE FRE		*Acer freemanii 'Autumn Blaze'*	Freeman Maple	52	2" CAL	Bare Root or Single or Clump Form See Plan
ACE GRA		*Acer grandidentatum*	Bigtooth Maple	9	2" CAL	
ALN TEN		*Alnus tenuifolia*	Thinleaf Alder	9	2" CAL	
AME GRA		*Amelanchier x grandiflora 'Autumn Brilliance'*	Serviceberry	7	2" CAL	Clump
BET NIG		*Betula nigra 'Heritage'*	Heritage Birch	8	2" CAL	
CAT SPE		*Catalpa speciosa*	Western Catalpa	5	2" CAL	
CRA AME		*Crataegus ambigua*	Russian Hawthorn	3		10' - 12' HT
GIN BIL		*Ginkgo biloba*	Ginkgo	27	3" CAL	
GYM CEO		*Gymnocladus dioicus*	Kentucky Coffeetree	17	3" CAL	
LAR DEC		*Larix decidua*	European Larch	7	6-7' CAL	
LAR LAR		*Larix laricina*	American Larch	3		Bare Root Bare Root 6'-8' HT
POP ACU		*Populus x acuminata*	Lanceleaf Cottonwood	6		6'-8' HT
POP DEL		*Populus deltoides*	Plains Cottonwood	8		
QUE ALB		*Quercus alba*	White Oak	5	2" CAL	
QUE BIC		*Quercus bicolor*	Swamp White Oak	2	2" CAL	
QUE IMB		*Quercus imbricaria*	Shingle Oak	2	2" CAL	
QUE MAC		*Quercus macrocarpa*	Bur Oak	4	2" CAL	
QUE MUE		*Quercus muehlenbergii*	Chinkapin Oak	2	2" CAL	
TAX DIS		*Taxodium distichum*	Bald Cypress	6	2" CAL	

SHRUBS

ABBR.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
ACE GLA	*Acer glabrum*	Rocky Mountain Maple	16	15 GAL	
AME ALN	*Amelanchier alnifolia*	Serviceberry	6	2'-4' HT	3" x 12" Tube balled
ART FRI	*Artemisia frigida*	Silver Sage	347	1 GAL	
ART LUD	*Artemisia ludoviciana*	Prairie Sage	310	1 GAL	
CHR NAU	*Chrysothamnus nauseosus*	Rabbitbrush	34	5 GAL	
CHR VIS	*Chrysothamnus viscidiflorus*	Yellow Rabbitbrush	113	5 GAL	
COR SER	*Cornus sericea*	Red Twig Dogwood	177	5 GAL	SPACE 24" O.C.
FAL PAR	*Fallugia paradoxa*	Apache Plume	103	5 GAL	
KRA LAN	*Krascheninnikovia lanata*	Winterfat	168	5 GAL	
PRU PUM	*Prunus pumila*	Sand Cherry	67	5 GAL	
QUE GAM	*Quercus gambelii*	Gambel Oak	45	5-6' HT	Single + Clump Form Mix
RHU ARO	*Rhus aromatica 'Gro-Low'*	Dwarf Fragrant Sumac	577	1 GAL	SHRUB
RHU GLA	*Rhus glabra*	Smooth Sumac	90	5 GAL	4' - 6' HT
RHU TYP	*Rhus typhina*	Staghorn Sumac	90	5 GAL	4' - 6' HT
RUB DEL	*Rubus deliciosus*	Boulder Raspberry	11	1 GAL	
SAL AMY	*Salix amygdaloides*	Peachleaf Willow	6	2" CAL	Bare Root, 6'-8' HT
SAM RAC	*Sambucus racemosa*	Redberried Elder	9	15 GAL	

LIVE STAKES

ABBR.	BOTANICAL NAME	COMMON NAME	LINEAR FT	REMARKS
SAL EXI	*Salix exigua*	Coyote Willow	167	SPACE 12" O.C.
SAL IRR	*Salix irrorata*	Blue Stem Willow	348	SPACE 12" O.C.

PEACE GARDEN - PERENNIAL/GROUND COVERS

ABBR.	SYM.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
GAL ODO		*Galium odoratum*	Sweet Woodruff	99	1 GAL	12" O.C.
IRI VER		*Iris versicolor*	Blue Water Iris	147	1 GAL	24" O.C.
GAL NIV		*Galanthus nivalis*	Common Snowdrop	46	1 GAL	12" O.C.
ANT BIE		*Anthemis tinctoria/biemiana*	Marshall Chamomile	117	1 GAL	12" O.C.
CHR COC		*Chrysanthemum coccineum*	Painted Daisy	77	1 GAL	12" O.C.
MON FIS		*Monarda fistulosa*	Bee Balm	67	1 GAL	18" O.C.
PAP ORI		*Papaver orientale*	Oriental Poppy (White Flowers)	160	1 GAL	12" O.C.
RUD HIR		*Rudbeckia hirta*	Black - Eyed Susan	57	1 GAL	18" O.C.
SED		*Sedum spp.*	Sedum	77	1 GAL	18" O.C.
AST ALP		*Aster alpinus*	Alpine Aster	201	1 GAL	12" O.C.
LEO ALP		*Leontopodium alpinum*	Edelweiss	138	1 GAL	12" O.C.
ALL SAT		*Allium sativum*	Garlic Allium	43	1 GAL	24" O.C.
ALL SCH		*Allium schoenoprasum*	Chive Allium	43	1 GAL	24" O.C.
LAV ANG		*Lavandula angustifolia var.*	Lavender	26	1 GAL	12" O.C.
NAR		*Narcissus spp.*	Daffodil, Narcissus Jonquil	216	1 GAL	12" O.C.

PEACE GARDEN - SHRUBS

ABBR.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
PIN MUG	*Pinus mugo var. pumilo*	Dwarf Mugo Pine	8	5 GAL	3' O.C.
RUB DEL	*Dasiphora (Rubus) deliciosus*	Boulder Raspberry	117	1 GAL	12" O.C.
SAM CAN	*Sambucus canadensis*	Elderberry	14	5 GAL	3' O.C.

LAWN AND SEED MIXES

ABBR.	QTY.	REMARKS
LAWN	66622 SF	SEE SPECS.
UPLAND WASH	16784 SF	SEE SPECS.
CREEK EMBANKMENT	12289 SF	SEE SPECS.
PLAYA GARDEN	3986 SF	SEE SPECS.

PLANTING NOTES:

1. Landscape Architect to Verify All Plant Locations in Field
2. Verify Location of Subsurface Utilities, Pipes and Structures. Should Utilities or Other Work Not Shown on the Plans be Found During Excavations, Promptly Notify Owner's Representative. Failure to Do So Will Make Contractor Liable for Damage Arising From His Operations Subsequent to Discovery of Utilities Not Shown on Plans.
3. Landscape Contractor to Receive Site Graded to Plus or Minus 0.10 ft Prior to Project Execution.
4. No Substitution of Species Without Approval from the Landscape Architect. Contract Grow Plants as Required. Contract Grown Plants Must Meet Industry Standards for Size in Order to be Accepted.
5. All Plants and Layout to be Verified in Field by the Landscape Architect Prior to Excavation of Planting Holes.
6. Notify Owner's Representative 36 Hours Prior to Commencement of Work to Coordinate Project Observation Meetings.
7. Space Ground Covers Transitionally in Planting Areas.
8. The Contractor Shall Verify All Plant Quantities. Quantities Shown on the Plant Schedule and on the Planting Plans are for the Contractor's Reference Only. In the Event of a Discrepancy Between the Quantities Shown on the Schedule and on the Plan, the Plans Shall Govern.

SHEET NOTES:

1. For Planting Plans, See Sheets L4.01 to L4.05.

NOTE:

Planting Callout Legend:

PLANT QUANTITY

GROUND COVERS - CREEK EMBANKMENT

ABBR.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
ASC EQ	*Asclepias incarnata*	Showy Milkweed	1681	1 GAL	
BOU GRA	*Bouteloua gracilis*	Blue Grama	2187	0"-4"	9" O.C.
CAR EMO	*Carex emoryi*	Huckleberry Tussock Sedge	2712	1 GAL	
JUN CON	*Juncus confusus*	Colorado Rush	1661	1 GAL	
PAN VIR	*Panicum virgatum*	Switchgrass	2012	0"-4"	9" O.C.

GROUND COVERS - RAINWATER GARDEN

ABBR.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
AND GER	*Andropogon gerardii 'Red Bull'*	Big Bluestem	1254	1 GAL	
BOU GRA	*Bouteloua gracilis*	Blue Grama	1254	0"-4"	9" O.C.
LOB SIP	*Lobelia siphilitica*	Great Blue Lobelia	751	1 GAL	
MIM LEW	*Mimulus lewisii*	Purple Monkeyflower	751	1 GAL	
PAN VIR	*Panicum virgatum*	Switchgrass	1051	0"-4"	9" O.C.

GROUND COVERS - UPLAND

ABBR.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
BOU GRA	*Bouteloua gracilis*	Blue Grama	5858	0"-4"	9" O.C.
BUC DAC	*Buchloe dactyloides*	Buffalo Grass	4290	0"-4"	9" O.C.
LIA PUN	*Liatris punctata*	Dotted Gayfeather	3144	0"-4"	9" O.C.
RAT COL	*Ratibida columnifera*	Prairie Coneflower	2985	0"-4"	9" O.C.
SPO HET	*Sporobolus heterolepis*	Prairie Dropseed	5728	0"-4"	9" O.C.

GROUND COVERS - OTHER

ABBR.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
AQU CAE	*Aquilegia caerulea*	Rocky Mountain Columbine	67	1 GAL	
MAH REP	*Mahonia repens*	Creeping Mahonia (Grape Holly)	510	1 GAL	
RAT COL	*Ratibida columnifera*	Prairie Coneflower	335	0"-4"	9" O.C.
PEN ANG	*Penstemon angustifolius*	Beardtongue	67	0"-4"	
PEN GRA	*Penstemon grandiflorus*	Large Beardtongue	67	1 GAL	
PEN SEC	*Penstemon secundiflorus*	Sidebells Penstemon	67	1 GAL	
PEN VIR	*Penstemon virens*	Blue Mist Penstemon	67	1 GAL	
SOL CAN	*Solidago canadensis*	Canada Goldenrod	12	1 GAL	

Drawing Number L 4.00 (Page 32) of Technical Design Documents

Civic Area 90% Construction Plans

- **Net Increase of 154 trees**
- **2" caliper minimum**
- **23 species**
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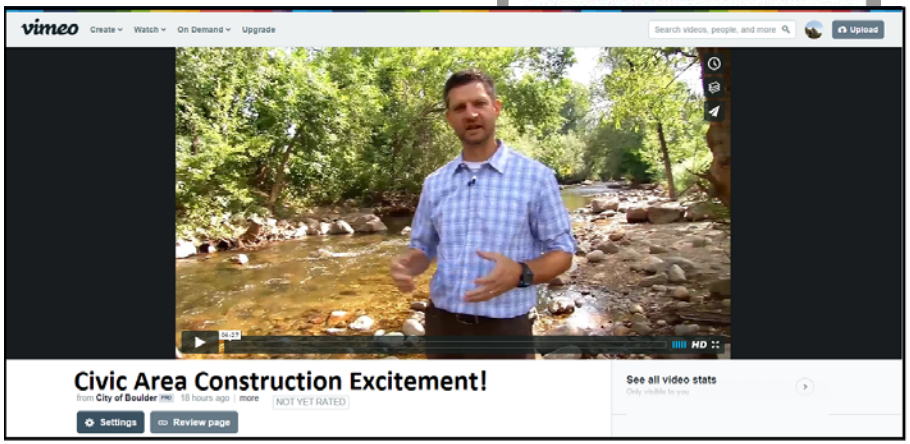
  - **Link to plantings on site**

Communications

- **Written Communications**
- **Boulder Channel 8**
- **Signage "Coming Soon"**
  - Lobbies
  - On-Line
  - In-Park
- **Regular Council and Community Updates**
- **Website and Social Media Posts**

http://bouldercolorado.gov/civic-area