



## Rose Roots Landscape Improvement Proposal 2021

West Side: A Rose Roots Community Garden/City of Arvada Partnership

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# Rose Roots Landscape Improvement Proposal 2021

West Side: A Rose Roots Community Garden/City of Arvada Partnership

## Purpose

- Provide weed and wind barriers around the perimeter of the Rose Roots Community Garden (Garden) to reduce weed mowing and maintenance needs
- Beautify open space city land surrounding the community garden for the community to enjoy while walking the local popular paved path between Five Parks Community and the Simms Street Community.

## Goals

- Complete the initial garden layout Master Plan (Appendix A) developed by the Community members and City of Arvada Partnership in a four-year phased approach detailed below and outlined here:
  - Phase One: West Side Trees (15 trees) Appendix A: West Side Concept Sketch 1.23.2021
  - Phase Two: South Side Trees (15 trees)
  - Phase Three: North Side Trees (15 trees)
  - Phase Four: East Side Trees (15 trees)
- Engage community in the planning and planting process through community meetings advertised on our website, Next Door, the City of Arvada website and publications, and other social media avenues (eg. Our garden Facebook and Instagram accounts).
- Partner with the City to have a Tree Dedication at the end of each phase honoring local leaders.
- Offer the opportunity to “Sponsor a Tree” to garden and community members. Offer recognition via our website, social media platforms and City of Arvada platforms.

## Background

The garden was established in 2011 by a local North West Arvada community group led by Gina Schley and John Chism in partnership with the City of Arvada who offered a \$270,000 grant and the land to build the 98 plots. The City also provided design services and the initial AutoCAD drawings included in Appendix A.

## Planned Orchards and Tree Wind Barrier

Orchards were planned to the East of the Garden in the City Master Plan, next to a llama farm and along the South side of the garden path while an Evergreen wind barrier was planned to the North side of the Garden, which borders a gravel space and several homes. There is a compacted area West of the Garden that is used for maintenance, compost deliveries, the portable toilet and is where several Evergreen trees donated by the city were planted and are thriving. Currently there are only a few trees on the 3.65-acre Agricultural lease.

The Master Plan layout developed by the City of Arvada appears to be approximately 75% complete, with an open play area to the East of the community garden and two shade structures, one within the gated garden plotted area, and the other to the South of the walking path, which many community members use for picnics. A community supported Agricultural plot offers CSA shares by new local managers to the south of the Garden bordering Alkire Street, and last year new greenhouses were installed. This group utilizes a farm stand on the east side of Alkire Street just to the south of the Garden.

## Red Barn Community Project

The building of the large Red Barn in 2016 on the Garden West Side, led by Theresa McKinney, and involved many local companies and gardeners who volunteered their services and labor to lay the foundation and put the barn up in 2016. The barn allows gardeners to store fresh produce in the refrigerator, share seeds and garden resources, share tools, and prep produce donations for local organizations in need.

## Pollinator Garden Legacy

A pollinator garden was completed in 2019 with an extensive labeled variety of local drought resistant species for the community to enjoy. The development and species selection were led by Rose Roots Gardener Jessie Standart, who mentored local gardeners as a Master Gardener herself. After her recent

passing, the garden continues to thrive as a beautiful legacy and gift to the community. Nicole McCrorie currently leads the maintenance and upkeep of the pollinator garden.

## Garden Community Outreach

Garden Membership Lead Kendra Eliason built and stocks a little Library for local community at the garden entrance, a reading Teepee, leads the painting maintenance of the East shed, and maintains, along with other gardeners, two children's play areas and a children's garden that the local community enjoys. There is a shared herb garden, rose garden, and a community picking patch. Garden Leaders Gary Williams and Jim Richards along with Karel Hemler, the Garden Treasurer, lead weekly garden improvement days where gardeners can fulfill their required 12 service hours. During these work days, chairs and tables are re-stained, weed cloth and crusher fines are put over community spaces between plots to keep weeds at bay, and hoses and plot borders are replaced. The Leadership and members of the garden operate as 100% volunteers and local community is invited to participate in Garden Open Houses, music days and potlucks at the garden, farm to table harvest events, Llama Love Days, and gardening and food preparation workshops. "Learning" and "Helping" Scholarships are offered to anyone in the community experiencing financial or other hardships, and Service Hours may be donated to other community garden members who are struggling to fulfill their hours in the interest of supporting community connection. Several garden plots are used exclusively to grow food donations for local community in need and it is our goal to develop as a Teaching Plot. The Garden participates in local community events, such as Garden Education Days at the Library, Garden Appreciation Day at Snooze Breakfast Eatery, and the 100 Years of Arvada Parks festival.

## Garden Statistics

- Garden Founded: 2011
- Total Plots: 98
- Raised ADA Plots: 10
- Storage Barns/Sheds: 2
- Pricing for Plots: \$75/15x15 ft plots, \$45/7.5 x 15 ft half plots, \$35/raised ADA plots
- Insurance and Community Trainings: Through Denver Urban Gardens (DUG), a portion of each garden plot fee goes to DUG.
- Produce Donations to date: Over 13,000 lbs.

## Proposed Plan

### Community Involvement

We would invite community to our virtual March garden meeting to share our Phase One plans and invite community input in the planning process. We would partner with the City to offer a Community Dedication at the end of each Phase to celebrate the approach of a Decade of Rose Roots Gardening in 2021 and all the local contributors who have supported this grassroots effort. We would welcome the opportunity to offer Farm to Table community fundraisers and educational programs in the newly landscaped space.

### Proposed Phased Landscape Improvement Program

#### *Phase One Spring 2021: West Side Trees*

Currently the Master Plan doesn't include a design for the West Side of the garden adjacent to Alkire Street, however due to the fact that the prevailing wind comes from the West and the open undeveloped lot is full of weeds, it is a priority area to landscape and add a wind barrier of trees. Two new Concept Sketches are provided for this West Side in Appendix A.

It is proposed that we add a loading service drive with a gate at the Alkire street entrance for delivery of gardening materials. Additionally, a gravel footpath will be added, starting from the current pathway to the South that begins at the parking lot. The new path, with a rose-covered entry archway, would lead to a circular sitting area for the community to enjoy the views. An "In Memorium Tribute Sculpture" for those we have lost could be placed here in this reflection area. The existing well could be preserved for historic purposes since the homesteaders last name on this site was Rose and this was presumably their well. We could build a mock Wishing Well over the current site and provide a plaque to share the history of the settlement of the area.

Trees from the City approved Plant List in Appendix C will be placed on a berm built up to shelter the East side of the sitting area and to help block the garden from weed spread. Shrubs and a variety of city approved ground covers will be used to keep back the weeds. We would aim to add berming to the South East section for added wind protection and habitat for local species. A gravel swath on the East side would separate the trees from the garden plots so they would not be shaded. It will also serve as a location for Farm-To-Table gatherings and fundraisers. A trellis with Hops to the North end of the gravel

area would create a partition for the Farm-to-Table area. Grape vines will be grown on the existing garden's West fence line to further reduce blowing weed germination.

Currently a Portable toilet is located in the North East corner of this parcel of land. The City has visited in recent months and noted the toilet will likely be relocated to allow for ADA access. Rose Roots Leaders have proposed moving it to the South East side of the Farm Stand on the south side of the walking path if that location is agreeable to our CSA neighbors. A large dumpster is delivered by the city to this location at the end of each gardening season, though it is often only half full so we could downsize and have the dumpster delivered to the parking lot. We also have compost, landscaping materials and crusher fines delivered to this land parcel so the loading service area would meet these needs.

It is unclear if the historic well in the center of the parcel has been capped. A bucket currently covers the well, so that would be addressed when we converted it to a mock Wishing Well.

#### *Phase Two Spring 2022: South Side Trees*

Phases Two, Three and Four would be contingent on the successful planting and establishment of the majority of the Phase One trees.

The Master Plan shows 15 trees planned for the South West side of the walking path and 20 trees planned for the South East Side of the walking path on either side paralleling the garden and on either side of the newly planted pollinator garden. Ideally, the trees would be planted in April by our gardeners concurrently with a City effort to install irrigation. A variety of tree Evergreen and deciduous tree types will be selected from a City approved list.

#### *Phase Three Spring 2023: East Side Trees*

The North side offers service access halfway between the plots. The 16 planned Evergreens were intended to provide a wind and weed barrier for the Northern border trending East West of the Garden. This would greatly benefit the productivity of the garden plots, reduce weeds and maintenance needs in the common areas, and offer privacy for the gardeners and neighbors.

#### *Phase Four Spring 2024: North Side Trees*

The trees on the East side of the Garden and on the Eastern border of the Llama Farm were planned in several North South Trending rows numbering 26 trees total. Fruiting trees have been discussed or flowering trees without fruit, and the tree varieties will be selected from the recommended City tree list.



As there is a play area and trails that would travel through the tree filled area, community would enjoy the shade and scenic recreational space offered, and the trees would provide more habitat for birds and local fauna.

### Phase One: West Side Budget Estimate

The Proposed Budget shown in Appendix B is presented in Four Phases starting in Spring 2021 and being completed in 2024.

The total estimated Budget for Phase One West Side Landscape Improvements is \$5,000 without including additional watering costs which would be estimated in conjunction with the City. If we went with Residential rates for water usage, the cost would be \$18.84 per 4,000 gallons. Assumptions are provided in the budget, and the conclusion is for 15 1" caliper trees, we would need about 266 gallons for the first year to get them established, so 4,000 gallons total (maybe less due to clay soils).

Additional options include soil inoculants coming to a total cost of \$1,125 for 15 new trees. Additionally a berm on the South East side would help with wind and weed control. Assumptions for a berm are provided. It is assumed we can move soil around on the site and create much of the berm or source top soil donations from the City, but if we were to pay for soil to create the berm, the cost is estimated to be \$4,655.

Implementation of Phases 2, 3 and 4 would be dependent on the success of Phase 1. The estimated totals shown in the budget include 4% inflation.

### Timeline: Phase One

- Wed Jan 20, 6:15 pm: Rose Roots Leadership Team planning meeting
- Thurs Jan 28, 2 pm: RR Leadership and City Brainstorming session
- February: Research and Planning (Checklist below)
- March 1, 6 pm: Rose Roots Meeting inviting Community Feedback, invite to Sponsor-a-Tree
- Early April 2021 (Date TBD): Work party to prepare top soil
- Late April 2021: Gardener Work Weekend. Dig Holes Sat, Plant Trees Sunday, concurrent with City installation of irrigation drip system extensions.

## Responsibilities Checklist

Below is a Checklist showing the overlapping Rose Roots and City responsibilities to achieve Phase One completion.

| Partnership Responsibilities Checklist  | Rose Roots | City |
|---|------------|------|
| Draft layout for West Side and review design  | x          | x    |
| Select Tree varieties and ground cover from City Plant Palette  | X          | X    |
| Price out Compost, mulch, trees, and equipment rental   | X          | X    |
| Schedule irrigation installation with City  | X          | X    |
| Select, plan and Schedule mulched shrub areas and native seed ground cover installation with City                                   | X          | X    |
| Overlay Master Plan maps with utility easements and be sure trees are not within 10' of wet utility lines                           | X          | X    |
| Advertise Community Meeting and invite to Sponsor-a-Tree  | X          | X    |
| Schedule Garden Tree Installation Work Day  | X          |      |
| Review City Water Wise Standards-LDC 6.5.2.H to be in compliance and use rain sensors, drip and programmable irrigation controller. | X          | X    |
| Review Drainage plans and including 1' contour intervals and drain structures with spot elevations expressing positive drainage.    | X          | X    |

## **Appendix A**

Masterplan Layout 2011

AutoCad Drawing Concept B

West Side Concept Sketch Jan 23, 2021

# MASTER PLAN

*“A Compelling Walking & Play Experience”*

## Design Overview

The final Master Plan reflects the public preference for a soft, naturalized park that emphasizes trails, open space, play fields and flowing expanses of native grass and meadow landscapes. Two artistic shade structures create focal points within the plan, allowing for gathering, events and naturalized boulder climbing/play.

## Plan Elements

- X OPEN PLAY FIELDS
- X NATURALIZED BOULDER SEATING AND PLAY AREAS
- X OPEN CANOPY SHELTER/OVERLOOK
- X WILDFLOWER MEADOW
- X ORNAMENTAL PLANTED BEDS
- X GRANITE (DG) TRAIL & CONCRETE WALK
- X NATIVE GRASSES AROUND PERIMETER
- X BERMING AROUND PERIMETER OF PARK IN NATIVE AREAS
- X CSA & COMMUNITY GARDEN BUFFERED FROM ALKIRE WITH FRUIT ORCHARDS



CITY OF ARVADA

For project inquiries, please contact the City of Arvada: Parks, Golf and Hospitality Services at 720.898.7400



EXIST. RESIDENCE

FUTURE ORCHARD

WOODEN WIRE FENCE

FLOW LINE

PHASE I - 10x15' COMMUNITY GARDEN PLOTS (± 60)

FUTURE SERVICE ALL-AGES

3MTR.

EVERGREEN TREE WIND SCREEN

5' 12' 15' 18' 24' 27'

5' 12' 15' 18' 24' 27'

5' 12' 15' 18' 24' 27'

5 MTR.

GARDEN PLOT EXPANSION

COMM. GARDEN STAGING/DISPLAY

MULCH AREA

EXIST. SIDEWALK

ORCHARD BUFFER

AG STAGING/DISPLAY AREA w/ DISPLAY PLOTS FOR TEACHING

1ST PHASE SHELTER FUTURE ENCLOSED SHED/PORCH

AG LEASE LIMIT APPROX. 3.65 AC.

ALPINE ST.

N

SERVICE ACCESS

PARKING

TRACTOR ACCESS

7' HEADWALL

WOODEN WIRE FENCE

FLOW LINE

CONCEPT 'B'

10' SPUT

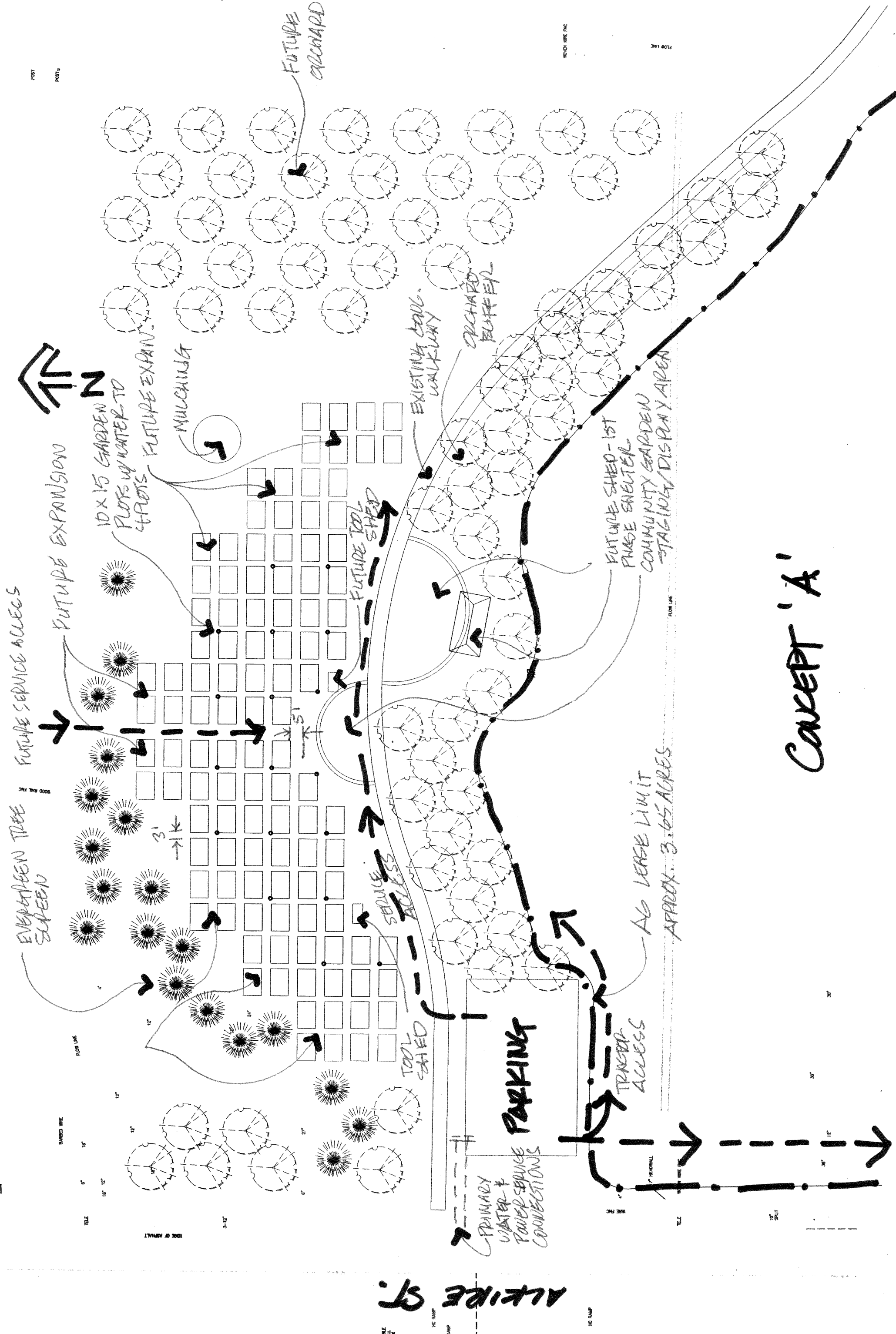
36'

21'

30'

30'

# EXISTING RESIDENCE

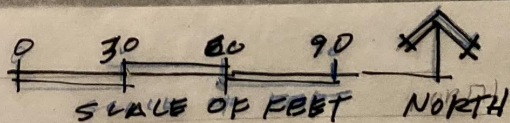


CONCEPT 'A'

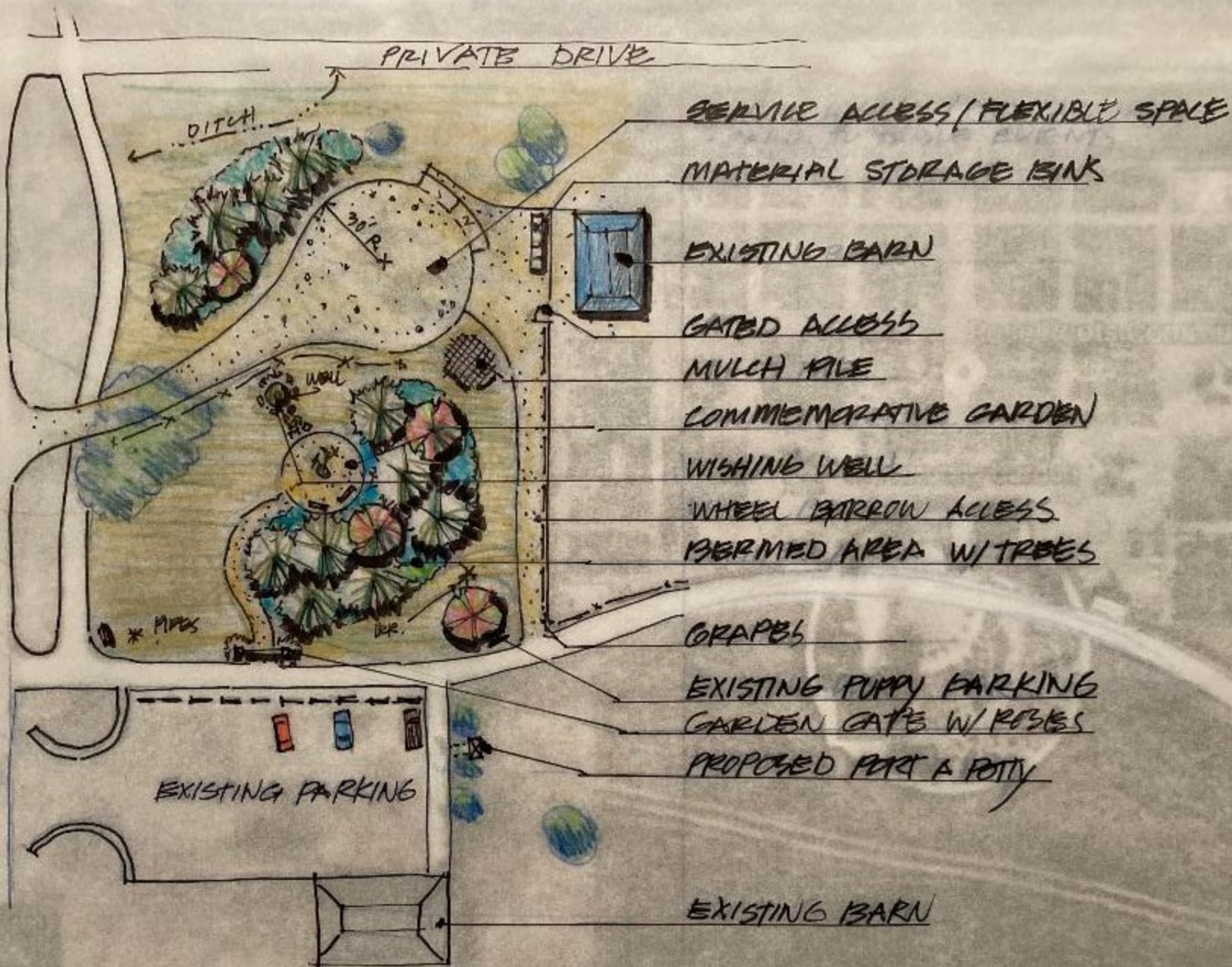
ALKIRE ST.



ROSE ROOTS GARDEN  
 WEST SIDE IMPROVEMENTS  
 CONCEPT SKETCH 1-23-2021

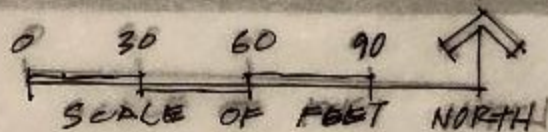


ALKIRE ST



# ROSE ROOTS GARDEN

WEST SIDE IMPROVEMENTS  
CONCEPT SKETCH - B 1-24-2024





## **Appendix B**

Proposed Budget in Four Phases 2021-2024

**Rose Roots Community Garden Phased Tree Planting Proposal 2021-2024**

Project Budget: (Cost estimates based on 2021 estimated Wholesale prices, adjusted annually for Phase 2 and 3, assume 4% inflation rate over prior year)

| <b>Trees*</b>   |                                 |                      |                |                  |                       |  |
|---|---------------------------------|----------------------|----------------|------------------|-----------------------|--|
|   | <b>Number of Trees (6-8 ft)</b> | <b>Cost Per Tree</b> | <b>Unit</b>    | <b>Unit Cost</b> | <b>Total Cost</b>     |  |
| Phase 1   | 15                              | \$ 150.00            | Each           | \$ 150.00        | \$ 2,250.00           |  |
| Phase 2   | 15                              | \$ 150.00            | Each           | \$ 150.00        | \$ 2,250.00           |  |
| Phase 3   | 15                              | \$ 150.00            | Each           | \$ 150.00        | \$ 2,250.00           |  |
| Phase 4   | 15                              | \$ 150.00            | Each           | \$ 150.00        | \$ 2,250.00           |  |
| <b>Amendments (City recommended will be used)</b>   |                                 |                      |                |                  |                       |  |
| <b>Compost (ordered in bulk)</b>  | <b>No of Trees</b>              | <b>Quantity</b>      | <b>Unit</b>    | <b>Unit Cost</b> | <b>Total Cost</b>     |  |
| Phase 1   | 15                              | 10                   | CY             | \$ 35.00         | \$525                 |  |
| Phase 1 staking materials   | 15                              | 10                   | Ea             | \$ 15.00         | \$225                 |  |
| Phase 2   | 15                              | 10                   | CY             | \$ 35.00         | \$525                 |  |
| Phase 2 staking materials   | 15                              | 10                   | Ea             | \$ 15.00         | \$225                 |  |
| Phase 3   | 15                              | 10                   | CY             | \$ 35.00         | \$525                 |  |
| Phase 3 staking materials   | 15                              | 10                   | Ea             | \$ 15.00         | \$225                 |  |
| Phase 4   | 15                              | 10                   | CY             | \$ 35.00         | \$525                 |  |
| Phase 4 staking materials   | 15                              | \$ 10.00             | Ea             | \$ 15.00         | \$225                 |  |
| <b>Mulch (shredded bark)</b>  |                                 |                      |                |                  |                       |  |
| Phase 1   | 15                              | 15                   | CY             | \$ 65.00         | \$975                 |  |
| Phase 2   | 15                              | 15                   | CY             | \$ 65.00         | \$975                 |  |
| Phase 3   | 15                              | 15                   | CY             | \$ 65.00         | \$975                 |  |
| Phase 4   | 15                              | 15                   | CY             | \$ 65.00         | \$975                 |  |
| <b>Irrigation (City Installed, drip for 2-3 years)**</b>                                    |                                 |                      |                |                  |                       |  |
|   |                                 | <b>Quantity</b>      | <b>Unit</b>    | <b>Unit cost</b> | <b>Total Cost</b>     |  |
| <b>Hose extensions*** (assume 200 feet per phase)</b>                                       |                                 |                      |                |                  |                       |  |
| Phase 1   |                                 | 200                  | LF             | \$ 1.00          | \$ 200.00             |  |
| Phase 2   |                                 | 200                  | LF             | \$ 1.00          | \$ 200.00             |  |
| Phase 3   |                                 | 200                  | LF             | \$ 1.00          | \$ 200.00             |  |
| Phase 4   |                                 | 200                  | LF             | \$ 1.00          | \$ 200.00             |  |
| <b>Bubblers (4 GPH bubblers per tree x 10 trees)</b>  |                                 |                      |                |                  |                       |  |
| Phase 1   |                                 | 40                   | per 4 bubblers | \$ 5.00          | \$ 200.00             |  |
| Phase 2   |                                 | 40                   | per 4 bubblers | \$ 5.00          | \$ 200.00             |  |
| Phase 3   |                                 | 40                   | per 4 bubblers | \$ 5.00          | \$ 200.00             |  |
| Phase 4   |                                 | 40                   | per 4 bubblers | \$ 5.00          | \$ 200.00             |  |
| <b>Installation Equipment Rental</b>  |                                 |                      |                |                  |                       |  |
| Backhoe (city loan)   |                                 |                      |                |                  | loan from City        |  |
| Irrigation Installation (City or Rose Roots if drip - assume 2 yrs to establish 6-8' trees) |                                 |                      |                |                  | City to estimate cost |  |
|   |                                 |                      |                |                  |                       |  |

| Labor  | Cost        | No of Plots | No of Hrs      | Total Hrs   | Total Cost       |             |                 |
|--|-------------|-------------|----------------|-------------|------------------|-------------|-----------------|
| Gardener Service Hours****                     | \$ -        | 98          | 6              | 588         |                  |             |                 |
| Hired Labor (if needed) Phase 1                | \$30        |             | 20             |             | \$600.00         |             |                 |
| Hired Labor (if needed) Phase 2                | \$30        |             | 20             |             | \$600.00         |             |                 |
| Hired Labor (if needed) Phase 3                | \$30        |             | 20             |             | \$600.00         |             |                 |
| Hired Labor (if needed) Phase 4                | \$30        |             | 20             |             | \$600.00         |             |                 |
| <b>Annual Maintenance (shared RR and City)</b> |             |             |                |             |                  |             |                 |
| Amendments                                     | No of Trees |             | Times per Year |             | Inflation (0.04) | Total Cost  | Inflation Added |
| Phase 1 Fertilizer                             | 15          |             | 2              |             |                  | \$ 25.00    |                 |
| Phase 2 Fertilizer                             | 15          |             | 2              |             |                  | \$ 25.00    |                 |
| Phase 3 fertilizer                             | 15          |             | 2              |             |                  | \$ 25.00    |                 |
| Phase 4 fertilizer                             | 15          |             | 2              |             |                  | \$ 25.00    |                 |
| <b>Sub Totals</b>                              |             |             |                |             |                  |             |                 |
| Phase 1  |             |             |                |             |                  | \$ 5,000.00 |                 |
| Phase 2  |             |             |                | \$3,750     | \$ 200.00        | \$ 5,000.00 | \$ 5,200.00     |
| Phase 3  |             |             |                | \$3,900     | \$ 208.00        | \$ 5,000.00 | \$ 5,408.00     |
| Phase 4  |             |             |                | \$ 4,775.00 | \$ 208.00        | \$ 5,000.00 | \$ 5,616.00     |

\*Trees varieties will be selected from the approved city list and will be a variety of Evergreen and flowering trees

\*\*Water useage costs based on City irrigation schedule

\*\*\*Hose extensions will be 1/2 inch polyethylene Tubing and will extend from existing City Water lines installed as a drip system, or as the City sees fit.

\*\*\*\*Gardeners will only be paid for labor if their annual service hours have been fulfilled and the task is physically demanding.

#### Additional Estimates

Soil Inoculents/Mychorriza: \$15/lb and blend 5 lbs per CY, per tree appx \$75.  $75 \times 15 = \$1,125$

Berm as wind break and drainage contour: Topsoil for the landscape berms. \$12-\$55/CY, Assume appx. \$35/CY

Plant 15 trees at appx. 15' on center, 200 LF berm x 12 ft width x 1.5 foot height=3600 CF/27 CF=133 CY x \$35 per CY=~~\$4,655~~

#### Water Cost Estimates (For a 1" caliper tree during first year)

Note: A 2" caliper tree takes twice as much water (Per CSU guidance)

1-2 gallons per inch trunk diameter for first two weeks

1-4 gallons every other day for 2 months

Weekly 2-4 gallons until established, figure 1 year for each inch caliper. Plan to install 1-2 inch caliper trees.

15-1" caliper trees would need about 266 gallons for the first year to get established, so 4,000 gallons total (maybe less due to clay soils)

Residential water in Arvada is 3.96 for first 1000 gallons and 4.96 for the additional 3,000 gallons, so roughly **\$18.84 per 4,000 gallons.**

## **Appendix C**

City of Arvada Plant List 9.1.2020

# CITY OF ARVADA PLANT LIST

Effective 9/1/2020

## PROHIBITED PLANTS

All plant listed listed as invasive/noxious by the Colorado Department of Agriculture shall not be planted within the city limits.

<https://www.colorado.gov/pacific/agconservation/noxious-weed-species#b>

## RECOMMENDED PLANT SPECIES

The following plants are recommended within the city. For new development, other plants species may be proposed as long as they have a proven track record of not being invasive within the Front Range. Xeric species preferred.

### TREES

#### Deciduous Canopy Trees

| Common Name             | Latin Name   | Mature Ht. | Xeric | Street Tree |
|-------------------------|--|------------|-------|-------------|
| Autumn Blaze Maple      | Acer x freemanii 'autumn blaze'                      | 40-50'     |       |             |
| Silver Maple            | Acer saccharinum                                     | 100'       |       |             |
| Bigtooth Maple          | Acer grandidentatum                                  | 20-30'     |       |             |
| Deborah Norway Maple    | Acer platanoides 'deborah'                           | 40-50'     |       |             |
| Northwood Maple         | Acer rubrum 'northwood'                              | 40-50'     |       |             |
| Red Sunset Maple        | Acer rubrum 'red sunset'                             | 40-50'     |       |             |
| River Birch             | Betula nigra   | 40-50'     |       |             |
| Western Catalpa         | Catalpa speciosa                                     | 40-60'     |       |             |
| Western Hackberry       | Celtis occidentalis                                  | 50-60'     | x     |             |
| Yellowwood              | Cladastrus kentukea                                  | 40'        |       |             |
| Imperial Honeylocust    | Gleditsia triacanthos inermis 'Imperial'             | 35'        | x     | x           |
| Shademaster Honeylocust | Gleditsia triacanthos inermis 'shademaster'          | 40-50'     | x     | x           |
| Skyline Honeylocust     | Gleditsia triacanthos inermis 'skyline'              | 40-50'     | x     | x           |
| Sunburst Honeylocust    | Gleditsia triacanthos inermis 'sunburst'             | 30-35'     | x     | x           |
| Kentucky Coffeetree     | Gymnocladus dioica                                   | 50-60'     | x     |             |
| Goldenrain Tree         | Koelreuteria paniculata                              | 20-30'     | x     |             |
| Redmond Linden          | Tilia americana 'redmond'                            | 40-50'     |       | x           |
| Greenspire Linden       | Tilia cordata 'greenspire'                           | 30-40'     |       | x           |
| White Oak               | Quercus alba   | 60-100'    | x     |             |
| Swamp White Oak         | Quercus bicolor                                      | 40-60'     | x     | x           |
| Scarlet Oak             | Quercus coccinea                                     | 50-80'     | x     |             |
| Bur Oak                 | Quercus macrocarpa                                   | 50-80'     | x     | x           |
| Chinkapin Oak           | Quercus muehlenbergii                                | 40-50'     | x     |             |
| Pin Oak                 | Quercus palustris                                    | 50-60'     | x     |             |
| English Oak             | Quercus robur  | 40-60'     | x     | x           |
| Red Oak                 | Quercus rubra  | 40-60'     | x     |             |
| Wavy Leaf / Scrub Oak   | Quercus undulata                                     | 20-30'     |       |             |
| Peachleaf Willow        | Salix amygdaloides                                   | 35-50'     |       |             |
| Frontier Elm            | Ulmus x 'Frontier' (U. carpinifolia x U. parvifolia) | 25'        |       |             |

#### Ornamental Trees

| Common Name                    | Latin Name                      | Mature Ht. | Xeric | Street Tree |
|--------------------------------|---------------------------------|------------|-------|-------------|
| Rocky Mountain Maple           | Acer glabrum                    | 10-20'     |       |             |
| Amur Maple                     | Acer ginnala 'flame'            | 15-20'     |       |             |
| Tartarian Maple                | Acer tataricum                  | 15-25'     | x     |             |
| Ohio Buckeye                   | Aesculus glabra                 | 35'        |       |             |
| Autumn Brilliance Serviceberry | Amelanchier 'autumn brilliance' | 20'        |       |             |
| Saskatoon Serviceberry         | Amelanchier alnifolia           | 6-12'      |       |             |
| Shadblow Serviceberry          | Amelanchier canadensis          | 15-25'     |       |             |
| Curl-leaf Mountain Mahogany    | Cercocarpus ledifolius          | 10-25'     | x     |             |

|                             |  |        |   |   |
|-----------------------------|--|--------|---|---|
| Russian Hawthorn            | <i>Crataegus ambigua</i>   | 15-25' | x |   |
| Thornless Cockspur Hawthorn | <i>Crataegus crus-galli inermis</i>  | 15-25' | x |   |
| Downy Hawthorn              | <i>Crataegus mollis</i>  | 20-25' | x |   |
| Washington Hawthorn         | <i>Crataegus phaenopyrum</i>   | 20-25' | x |   |
| Colorado Hawthorn           | <i>Crataegus succulenta</i>  | 20-25' | x |   |
| Toba Hawthorn               | <i>Crataegus x mordenensis 'Toba'</i>  | 15-20' | x |   |
| Winter King Hawthorn        | <i>Crataegus viridis 'Winter King'</i>   | 15-20' | x |   |
| Seven Son Flower            | <i>Heptacodium miconiodes</i>  | 15'    |   |   |
| Crabapple                   | <i>Malus species</i>   | varies |   |   |
| Edible Apple                | <i>Malus species &amp; cultivars (esp. Gala, Honeycrisp, Honeygold)</i>            | varies |   |   |
| Edible Cherry               | <i>Prunus avium &amp; varieties (esp. Lapins, Stella)</i>                          | varies |   |   |
| Edible Apricot              | <i>Prunus armeniaca</i>  | varies |   |   |
| Newport Plum                | <i>Prunus cerasifera 'newport'</i>   | 15-20' |   |   |
| Montmorency Cherry          | <i>Prunus cerasus 'montmorency'</i>  | 15-20' |   |   |
| Amur Chokecherry            | <i>Prunus mackii</i>   | 30'    | x |   |
| Mayday Tree                 | <i>Prunus padus</i>  | 20-30' |   |   |
| Edible Peach                | <i>Prunus persica varieties</i>  | varies |   |   |
| Edible Plum                 | <i>Prunus species &amp; cultivars (esp. Mt. Royal, Santa Rosa, Superior, Toka)</i> | varies |   |   |
| Princess Kay Plum           | <i>Prunus nigra 'Princess Kay'</i>   | 18'    |   |   |
| Canada Red Cherry           | <i>Prunus virginiana 'canada Red'</i>  | 20-30' |   |   |
| Edible Pear                 | <i>Pyrus / 'Summercrisp, P. x 'Bartlett'</i>                                       | 15'    |   |   |
| Autumn Blaze Pear           | <i>Pyrus calleryana 'Autumn Blaze'</i>   | 25-35' |   |   |
| Aristocrat Pear             | <i>Pyrus calleryana 'Aristocrat'</i>   | 20-30' |   | x |
| Chanticleer Pear            | <i>Pyrus calleryana 'Chanticleer'</i>  | 20-30' |   | x |
| Korean Sun Pear             | <i>Pyrus fauriei 'Korean Sun'</i>  | 10-12' |   | x |
| Ussurian Pear               | <i>Pyrus ussuriensis</i>   | 40-50' |   | x |
| New Mexico Locust           | <i>Robinia neomexicana</i>   | 10'    | x |   |
| Japanese Pagoda Tree        | <i>Sophora japonica</i>  | 40'    | x |   |
| Japanese Tree Lilac         | <i>Syringa reticulata</i>  | 15-25' |   |   |
| Yellowhorn                  | <i>Xanthoceras sorbifolium</i>   | 20'    |   |   |

### Evergreen Trees

| Common Name               | Latin Name                     | Mature Ht. | Xeric | Street Tree |
|---------------------------|--------------------------------|------------|-------|-------------|
| White Fir                 | <i>Abies concolor</i>          | 40-60'     |       |             |
| One Seed Juniper          | <i>Juniperus monosperma</i>    | 30-40'     | x     |             |
| Utah Juniper              | <i>Juniperus osteosperma</i>   | 15-20'     | x     |             |
| Rocky Mountain Juniper    | <i>Juniperus scopulorum</i>    | 20-30'     | x     |             |
| Colorado Spruce           | <i>Picea pungens</i>           | 40-80'     |       |             |
| Colorado Blue Spruce      | <i>Picea pungens 'Glauca'</i>  | 40-80'     |       |             |
| Colorado Spruce varieties | <i>Picea pungens varieties</i> | varies     |       |             |
| Pinon Pine                | <i>Pinus edulis</i>            | 20-30'     | x     |             |
| Bosnian Pine              | <i>Pinus leucodermis</i>       | 15-25'     |       |             |
| Singleleaf Pinion Pine    | <i>Pinus monophylla</i>        | 8-15'      | x     |             |
| Austrian Pine             | <i>Pinus nigra</i>             | 40-60'     | x     |             |
| Austrian Pine varieties   | <i>Pinus nigra varieties</i>   | varies     |       |             |
| Ponderosa Pine            | <i>Pinus ponderosa</i>         | 60-80'     |       |             |
| Southwestern White Pine   | <i>Pinus strobiformis</i>      | 60'        |       |             |
| Scotch Pine               | <i>Pinus sylvestris</i>        | 30-50'     |       |             |

## SHRUBS/ORNAMENTAL GRASSES

### Evergreen Shrubs

| Common Name                      | Latin Name                                  | Mature Ht. |
|----------------------------------|---|------------|
| Manzanita                        | Arctostaphylos x coloradensis and varieties | varies     |
| Curlleaf Mountain Mahogany       | Cercocarpus ledifolius                      | 10-20'     |
| Red Yucca                        | Hesperaloe parviflora                       | 3-4'       |
| Common Juniper and varieties     | Juniperus communis and varieties            | 1-3'       |
| Creeping Juniper and varieties   | Juniperus horizontalis and varieties        | 4" - 18"   |
| Green Mound Juniper              | Juniperus procumbens 'Green Mound'          | 6" - 12"   |
| Savin Juniper and varieties      | Juniperus sabina and varieties              | 12"-6'     |
| Rocky Mountain Juniper varieties | Juniperus scopulorum varieties              | 10'-20'    |
| Eastern Red Cedar varieties      | Juniperus virginiana 'Blue Arrow'           | 15'-20'    |
| Creeping Colorado Holly          | Mahonia repens                              | 12-18"     |
| Dwarf Alberta Spruce             | Pinus glauca 'Conica'                       | 5-7'       |
| Blue Globe Spruce                | Picea pungens 'Glauca Globosa'              | 3-4'       |
| Mesa Verde Spruce                | Picea pungens 'Mesa Verde'                  | 1-2'       |
| Mugo Pine                        | Pinus mugo                                  | 4-6'       |
| Mugo Pine varieties              | Pinus mugo varieties                        | varies     |
| Banana Yucca                     | Yucca baccata                               | 18-24"     |
| Adam's Needle                    | Yucca filamentosa                           | 2-3'       |
| Soapweed                         | Yucca glauca                                | 2-4'       |

### 3' Width Deciduous Shrubs

| Common Name                          | Latin Name   | Mature Ht.    |
|--------------------------------------|--|---------------|
| Leadplant                            | Amorpha canescens                                    | 4'            |
| Dwarf Leadplant                      | Amorpha nana   | 2'            |
| Black Chokeberry                     | Aronia melanocarpa                                   | 4-6'          |
| Fourwing Saltbush                    | Atriplex canescens                                   | 3-6'          |
| Barberry                             | Berberis thunbergii varieties                        | 1-2' / varies |
| Pygmy Peashrub                       | Caragana pygmaea / Caragana frutex 'Globosa'         | 3-4'          |
| Blue Mist Spirea                     | Caryopteris x clandonensis 'Blue Mist'               | 3-4'          |
| Little Leaf Mountain Mahogany        | Cercocarpus intricatus                               | 2-4'          |
| Dwarf Rabbitbrush                    | Chrysothamnus var.                                   | 2'            |
| Rabbit Brush                         | Chrysothamnus nauseosus                              | 3-4'          |
| Kelsey Dogwood                       | Cornus stolonifera 'kelseyi'                         | 2-3'          |
| Carol Mackie Daphne                  | Daphne x burkwoodii 'Carol Mackie'                   | 3-5'          |
| Mormon Tea                           | Ephedra viridis                                      | 2-3'          |
| Nana Burning Bush                    | Euonymus nanus                                       | 2'            |
| Lydia Woadwaxen                      | Genista 'Lydia'                                      | 2'            |
| Royal Gold Woadwaxen                 | Genista tinctoria 'Royal Gold'                       | 2'            |
| Lodense Privet                       | Ligustrum vulgare 'lodense'                          | 2-3'          |
| Clavey's Dwarf Honeysuckle           | Lonicera x xylostoeoides 'Clavey's Dwarf'            | 5-6'          |
| Dwarf Russian Sage                   | Perovskia atriplicifolia 'Little Spire'              | 2'            |
| Littleleaf Mockorange                | Philadelphus microphyllus                            | 4'            |
| Dwarf Minnesota Snowflake Mockorange | Philadelphus x viginalis 'Minnesota Dwarf Snowflake' | 3-4'          |
| Mountain Ninebark                    | Physocarpus monogynus                                | 3'            |
| Shrubby Cinquefoil                   | Potentilla fruticosa varieties                       | 2-3' /varies  |
| Dwarf Russian Almond                 | Prunus tenella                                       | 2-5'          |
| Alpine Currant                       | Ribes alpinum & varieties                            | 3-6'          |
| Gooseberry                           | Ribes uva-crispa 'Pixwell' / R. hirtellum 'Pixwell'  | 3-4'          |
| Red Lake Currant                     | Ribes rubrum / R. ativum 'Red Lake'                  | 4'            |
| Rose                                 | Rosa cultivars and varieties                         | varies        |
| Japanese Spirea varieties            | Spirea japonica varieties                            | varies        |
| Miss Kim Dwarf Lilac                 | Syringa patula 'miss kim'                            | 3-5'          |
| Blue Muffin Viburnum                 | Viburnum dentatus 'Christom' / 'Blue Muffin'         | 3-4'          |
| Weigela varieties                    | Weigela florida varieties                            | varies        |

### 5' Width Deciduous Shrubs

| Common Name                          | Latin Name                              | Mature Ht.    |
|--------------------------------------|---|---------------|
| Regent Serviceberry                  | Amelanchier alnifolia 'regent'          | 6-8'          |
| Brilliant Red Chokeberry             | Aronia arbutifolia 'brilliantissima'    | 6-8'          |
| Barberry                             | Berberis thunbergii varieties           | 4-6' / varies |
| Butterfly Bush varieties & cultivars | Buddleja davidii; Buddleja alternifolia | varies        |
| Mountain Lilac                       | Ceanothus fendleri                      | 3'            |
| Curl Leaf Mountain Mahogany          | Cercocarpus ledifolius                  | 8-10'         |
| Mountain Mahogany                    | Cercocarpus montanus                    | 8-10'         |
| Red Flowering Quince                 | Chaenomeles japonica 'rubra'            | 4-6'          |
| Fernbush                             | Chamaebatiaria millefolium              | 3-5'          |
| Cranberry Cotoneaster                | Cotoneaster apiculatus                  | 18-24'        |
| Coral Beauty Cotoneaster             | Cotoneaster dammeri 'coral beauty'      | 1-2'          |
| Cliffrose                            | Cowania mexicana                        | 3-12'         |
| Spanish Gold Broom                   | Cytisus purgans 'Spanish Gold'          | 2-4'          |
| Dwarf Burning Bush                   | Euonymus alatus 'compacta'              | 6-8'          |
| Apache Plume                         | Fallugia paradoxa                       | 3-6'          |
| Cliff fendlerbush                    | Fendlera rupicola                       | 5-6'          |
| Rock Spirea                          | Holodiscus dumosus                      | 3-6'          |
| Waxflower                            | Jamesia americana                       | 4-5'          |
| Beautybush                           | Kolkwitzia amabilis                     | 6-8'          |
| Cheyenne Privet                      | Ligustrum vulgare 'cheyenne'            | 6-8'          |
| Tiny Trumpet Honeysuckle             | Lonicera syriacantha 'wolfii'           | 3-4'          |
| Russian Sage                         | Perovskia atriplicifolia                | 4'            |
| Cheyenne Mockorange                  | Philadelphus lewisii 'Cheyenne'         | 6-7'          |
| Native Ninebark & varieties          | Physocarpus opulifolius & varieties     | varies        |
| Western Sand Cherry                  | Prunus besseyi                          | 4-6'          |
| Creeping Western Sand Cherry         | Prunus besseyi 'pawnee buttes'          | 15-18"        |
| Antelope Brush                       | Purshia tridentata                      | 6'            |
| Columnar Buckthorn                   | Rhamnus frangula 'columnaris'           | 8-12'         |
| Rocky Mountain Sumac                 | Rhus glabra cismontana                  | 6'            |
| Cutleaf Staghorn Sumac               | Rhus typhina 'Laciniata'                |               |
| Three Leaf Sumac                     | Rhus trilobata                          | 3-6'          |
| Golden Currant                       | Ribes aureum                            | 6'            |
| Squaw Currant / Wax Currant          | Ribes cereum                            |               |
| Rose                                 | Rosa cultivars and varieties            | varies        |
| Boulder Raspberry                    | Rubus deliciosus                        | 8'            |
| Elderberry                           | Sambucus nigra                          | 6'            |
| Snowberry                            | Symphoricarpos albus                    | 4-6'          |
| Red Coralberry                       | Symphoricarpos orbiculatus              |               |
| Mountain Snowberry                   | Symphoricarpos oreophilus               |               |
| Miss Kim Lilac                       | Syringa patula 'Miss Kim'               | 3-5'          |
| Koreanspice Viburnum                 | Viburnum carlesii                       | 6'            |
| Mohican Viburnum                     | Viburnum lantana 'Mohican'              | 6'            |
| Compact American Cranberrybush       | Viburnum trilobum varieties             | 4-5'          |
| Weigela varieties                    | Weigela florida varieties               | varies        |

### 7' Width Deciduous Shrubs

| Common Name               | Latin Name                        | Mature Ht. |
|---------------------------|-----------------------------------|------------|
| Dwarf Ginnala Maple       | Acer ginnala 'compacta'           | 6-8'       |
| False Indigo              | Amorpha fruticosa                 | 6-15'      |
| Saskatoon Serviceberry    | Amelanchier alnifolia             | 10'        |
| Utah Serviceberry         | Amelanchier utahensis             | 6-12'      |
| Tall Western Sage         | Artemisia tridentata              | 8'         |
| Siberian Peashrub         | Caragana arborescens              | 8-10'      |
| Royal Purple Smoke Tree   | Cotinus coggygia 'royal purple'   | 6-8'       |
| Red & Yellow Twig Dogwood | Cornus sericea                    | 8'         |
| Silverberry               | Elaeagnus commutata               | 6-12'      |
| Burning Bush              | Euonymus alatus                   | 8-12'      |
| New Mexican Privet        | Forestiera neomexicana            | 8-12'      |
| Northern Sun Forsythia    | Forsythia x 'Northern Sun'        | 6-8'       |
| Arnold's Red Honeysuckle  | Lonicera tartarica 'Arnold's Red' | 6-8'       |



|                          |  |                |
|--------------------------|--|----------------|
| Golden Ninebark          | Physocarpus opulifolius 'luteus'         | 6-8'           |
| American Plum            | Prunus americana                         | 10-20'         |
| Cistena Plum             | Prunus cistena                           | 6-8'           |
| Nanking Cherry           | Prunus tomentosa                         | 6-12'          |
| Native Chokecherry       | Prunus virginiana                        | 8-20'          |
| Gambel Oak               | Quercus gambellii                        | 4-20'          |
| Fragrant Sumac           | Rhus aromatica                           | 6-12'          |
| Gro-Lo Fragrant Sumac    | Rhus aromatica 'grow low'                | 2-3'           |
| Smooth Sumac             | Rhus glabra                              | 10'            |
| Staghorn Sumac           | Rhus typhina                             | 10'            |
| Rose                     | Rosa cultivars and varieties             | varies         |
| Woods Rose               | Rosa woodsii                             | 8'             |
| Swamp Rose               | Rosa Palustris                           | 8'             |
| Buffaloberry             | Shepherdia argentea                      | 8-15'          |
| Early Lilac              | Syringa x hyacinthiflora cultivars       | 6-12' / varies |
| Late Lilac               | Syringa x prestoniae cultivars           | 6-12' / varies |
| Common & French Lilacs   | Syringa vulgaris varieties               | 6-12' / varies |
| Judd / Fragrant Viburnum | Viburnum x juddii                        | 6-8'           |
| Alleghany Viburnum       | Viburnum x rhytidophylloides 'Alleghany' | 10'            |
| Burkwood Viburnum        | Viburnum burkwoodii                      | 10-12'         |
| Arrowwood Viburnum       | Viburnum dentatum                        | 6-10'          |
| Wayfaring Tree           | Viburnum lantana                         | 10-12'         |
| Nannyberry Viburnum      | Viburnum lentago                         | 8-15'          |
| American Cranberrybush   | Viburnum trilobum                        | 10'            |

**Ornamental Grasses (those with an asterick may be counted toward required shrub counts)**

| Common Name                       | Latin Name                                | Mature Ht. |
|-----------------------------------|---|------------|
| Big Bluestem Grass*               | Andropogon gerardii                       | 4-6'       |
| Blue Gramma Grass                 | Bouteloua gracilis                        | 1-2'       |
| Karl Forester Feather Reed Grass* | Calamagrostis arundinacea 'karl forester' | 4-5'       |
| Sea Urchin Blue Fescue            | Festuca ovina glauca 'sea urchin'         | 8"         |
| Blue Avena Grass*                 | Helictotrichon sempervirens               | 4'         |
| Japanese Blood Grass              | Imperata cylindrica 'red baron'           | 1-2'       |
| Maiden Hair Grass*                | Miscanthus sinensis 'gracillimus'         | 5-6'       |
| Yaku Jima Maiden Grass*           | Miscanthus sinensis 'yaku jima'           | 3-4'       |
| Variegated Moor Grass             | Molina caerulea variegata                 | 1-2'       |
| Northern Indian Rice Grass        | Oryzopsis hymenoides 'nezpar'             | 18"        |
| Switchgrass*                      | Panicum virgatum 'heavy metal'            | 3-4'       |
| Dwarf Fountain Grass              | Pennisetum alopecuroides 'hamelin'        | 1-2'       |
| Little Bunny Grass                | Pennisetum alopecuroides 'little bunny'   | 10-12"     |
| Ribbon Grass                      | Phalaris arundinacea 'picta'              | 2-3'       |
| Ruby Grass                        | Rhynchelytrum nerviglume                  | 2'         |
| Plume Grass*                      | Saccharum ravannae                        | 8-12'      |
| Little Bluestem Grass*            | Schizachyrium scoparium                   | 3-5'       |
| Indian Grass*                     | Sorghastrum nutans 'sioux blue'           | 5-7'       |

## PERENNIALS/GROUND COVERS

### Perennials

| Common Name                 | Latin Name                         | Mature Ht. |
|-----------------------------|------------------------------------|------------|
| Tall Gold Yarrow            | Achillea filipendula               | 36-48"     |
| Double Bubblemint           | Agastache cana                     | 24-36"     |
| Sunset Hyssop               | Agastache rupestris                | 24-36"     |
| Rocky Mountain Columbine    | Aquilegia caerulea                 | 18-24"     |
| Butterfly Weed              | Asclepias tuberosa                 | 18"        |
| False Spirea                | Astilbe sp.                        | 10-36"     |
| Dwarf Lavender Fall Aster   | Aster novi-belgii 'audrey'         | 18-24"     |
| Basket-of-Gold              | Aurina saxatilis 'gold ball'       | 8-12"      |
| Snowbank Boltonia           | Boltonia asteroides 'snowbank'     | 36-48"     |
| Poppy Mallow                | Callirhoe involucrata              | 4-12"      |
| Loddon Anna Bellflower      | Campanula lactiflora 'loddon anna' | 42-48"     |
| Blue Harebell               | Campanula rotundiflora 'olympica'  | 6-18"      |
| White Valerian              | Centranthus ruber 'albus'          | 24-36"     |
| Moonbeam Coreopsis          | Coreopsis verticillata 'moonbeam'  | 24-36"     |
| Pacific Giant Delphinium    | Delphinium ssp.                    | 48-60"     |
| Maiden Pinks                | Dianthus deltoides                 | 6-8"       |
| Bleeding Heart              | Dicentra spectabilis               | 24-36"     |
| Purple Coneflower           | Echinacea purpurea                 | 36"        |
| Globe Thistle               | Echinops ritro                     | 24-36"     |
| Cut-Leaf Daisy              | Erigeron compositus                | 4-6"       |
| Sulfur Buckwheat            | Eriogonum umbellatum               | 18-24"     |
| Joe Pye Weed                | Eupatorium sp.                     | 60-72"     |
| Dwarf Fleeceflower          | Fallopia japonica compacta         | 12-18"     |
| Native Blanket Flower       | Gaillardia aristata                | 18-24"     |
| Dazzler Blanket Flower      | Gaillardia 'dazzler'               | 24-36"     |
| Whirling Butterflies        | Gaura lindheimeri                  | 36-42"     |
| Dwarf Globularia            | Globularia hederacea               | 2-6"       |
| Sunrose                     | Helianthemum                       | 8-12"      |
| Daylily                     | Hemerocallis sp.                   | 36"        |
| Coral Bells                 | Heuchera sp.                       | 12"        |
| Butterfly Iris              | Iris spuria                        | 36-40"     |
| Deep Blue Lavender          | Lavandula angustifolia 'hidcote'   | 8-12"      |
| Shasta Daisy                | Leucanthemum x superbum 'alaska'   | 24-30"     |
| Gayfeather                  | Liatris sp.                        | 18-48"     |
| Yellow Flax                 | Linum flavum compactum             | 10-18"     |
| Blue Flax                   | Linum perenne                      | 12-24"     |
| Cardinal Flower             | Lobelia cardinalis                 | 36-48"     |
| Marshall's Delight Bee Balm | Monarda 'marshall's delight'       | 24-36"     |
| Red Monkeyflower            | Mumulus cardinalis                 | 48"        |
| Oxalis                      | Oxalis crassipes                   | 10"        |
| Lambert's Locoweed          | Oxytropis lambertii                | 8-12"      |
| Poppy                       | Papaver sp.                        | 24-36"     |
| Penstemon                   | Penstemon sp.                      | var.       |
| Purple Prairie Clover       | Petalostemon purpurea              | 18"        |
| Prairie Coneflower          | Ratibida columnifera 'mexican hat' | 15-24"     |
| Russian Sage                | Perovskia atriplicifolia           | 24-48"     |
| Gloriosa Daisy              | Rudbeckia hirta 'indian summer'    | 36-40"     |
| Salvia                      | Salvia sp.                         | varies     |
| Woolly Cotton               | Santolina chamaecyparissus         | 14"        |
| Lavender Cotton             | Santolina ericoides                | 8"         |
| Pincushion Flower           | Scabiosa sp.                       | varies     |
| Redbirds                    | Scrophulora macrantha              | 36-48"     |
| Sedum                       | Sedum telephium                    | 6-18"      |
| Mexican Catchfly            | Silene lancinata                   | 15"        |
| Dwarf Goldenrod             | Solidago sphacelata                | 15"        |
| Goldenrod                   | Solidago rugosa                    | 36"        |
| Hedgenettle, Lamb's Ears    | Stachys coccinea                   | 18"        |
| Prince's Plume              | Stanleya pinnata                   | 36-60"     |

|                      |                                   |        |
|----------------------|-----------------------------------|--------|
| Wherry's Foam Flower | Tiarella wherryi                  | 3-8"   |
| Spiderwort           | Tradescantia occidentalis         | 12-18" |
| Native Verbena       | Verbena bipinnatifida             | 3-6"   |
| Ironweed             | Veronia noveborascens             | 72"    |
| Red Fox Speedwell    | Veronica spicata 'red fox'        | 12-18" |
| Bowles Periwinkle    | Vinca minor 'bowles variety'      | 4-6"   |
| Hummingbird Flower   | Zauschneria californica latifolia | 18-24" |
| Blue Mint Bush       | Zizpohora clinopodioided          | 18"    |

### Groundcover

| Common Name                | Latin Name                          | Mature Ht. |
|----------------------------|-------------------------------------|------------|
| Carpet Bugle               | Ajuga reptans                       | 4-6"       |
| Pussytoes                  | Antennaria neglecta                 | 1-4"       |
| Rockcress                  | Arabis                              | 4-6"       |
| False Rockcress            | Aubrieta                            | 4-6"       |
| Snow in Summer             | Cerastium tomentosum                | 6-12"      |
| Bunchberry Dogwood         | Cornus canadensis                   | 3-8"       |
| Maiden Pink                | Dianthus deltoides                  | 6-8"       |
| Sulfur Flower              | Eriogonum umbellatum                | 8-12"      |
| Wild Strawberry            | Fragaria americana                  | 2-6"       |
| Candytuft                  | Iberis sempervirens                 | 8-12"      |
| White Nancy Nettle         | Lamium maculatum 'white nancy'      | 6-12"      |
| Moneywort                  | Lysimachia nummularia               | 2-4"       |
| Running Mat Phlox          | Phlox stolonifera 'sherwood purple' | 4-6"       |
| Emerald Pink Phlox         | Phlox subulata 'emerald pink'       | 4-6"       |
| Creeping Quinquefoil       | Potentilla neumanniana              | 3"         |
| Stonecrop                  | Sedum                               | 1-2'       |
| Pink Chintz Creeping Thyme | Thymus 'pink chintz'                | 1"         |
| Reiter Creeping Thyme      | Thymus 'reiter'                     | 3"         |
| Doone Valley Lemon Thyme   | Thymus citriodorus 'doone valley'   | 3"         |
| Turkish Veronica           | Veronica liwanensis                 | 1-2"       |
| Woolly Veronica            | Veronica pectinata                  | 1-2"       |
| Prostrate Veronica         | Veronica prostrata                  | 4-8"       |
| Tufted Pansy               | Viola cornuta                       | 6"         |