

Maryanne Corder Neighborhood Grant Application

Due Monday, April 22, 2019 at 5 pm—late or incomplete application will not be accepted.



Name of Association Rural Geneva NA # of households 445

Project Meyer Park Improvements location: 2727 S. Dorsey Ln

Name of primary project contact:

Alison Quinn RGNA Chair

Email: [REDACTED] Phone: [REDACTED]

Address (& city/state/zip) [REDACTED] Tempe, Az 85282

Name of authorizing individual (who can accept funds, sign contract - *if different than above*) _____

Address (& city/state/zip) _____

Email: _____ Phone: _____

1. Project description: Brief description of your grant project.

Meyer Park is at the center of 3 Neighborhood associations, multiple apartment homes, a school and mutil modal transportation routes. The 3 NA have a total household count of 1547. The focus of this grant is to make improvements by adding 2 ADA accessible picnic tables with BBQ and 20 shade trees. These improvements fall in line with the Alameda Character profile and in unison with Tempe's Urban Forest Shade Goals. We are working in conjunction with the Tempe Parks Department and their long term improvement plans. See attached plot map.

2. Project Budget

Expenses	Amount
1- 24 X 15 concrete slab	\$ 3810
2 picnic tables	\$2878
1 BBQ	\$300
20-24" box trees	\$5500
	\$
Match (HOA and Crime Free Multi-family Housing properties only) 25% of project total	\$
TOTAL EXPENSES:	\$12,488

3. Maintenance: Describe specifically how the association intends to maintain the project - if funded.

Due to the fact that our grant is specifically for Meyer Park, The City of Tempe will incorporate maintenance into the exisiting plan and investments into City Parks.

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4. Staff contacts Please check all staff that you have met with and/or contacted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Neighborhood Services staff (circle at least one):
Laura Kajfez, Erin Kirkpatrick, Elizabeth Thomas, Shauna Warner | <input type="checkbox"/> Parks/Playground: Dave McClure |
| <input checked="" type="checkbox"/> ADA Accessibility: Michele Stokes | <input type="checkbox"/> Signs: Dean Miller |
| <input type="checkbox"/> Art: Rebecca Rothman | <input type="checkbox"/> Traffic Calming: Steve Horstman |
| <input type="checkbox"/> Landscape//Lighting/Walls: Steve Abrahamson | <input type="checkbox"/> Water Conservation: Melissa Bomar |
| | <input type="checkbox"/> Other: _____ |

5. Narrative

Submit a narrative explaining what you hope to accomplish through this grant if approved and how the project meets the provided evaluation criteria.

Park improvements will aid in creating a destination, a hub or gathering space for the City of Tempe, surrounding Neighborhood Associations, apartment homes and school community.

A Great gathering place builds community by having a place for neighborhood gatherings such as GAIN night, Arts in the Park and other community ownership building opportunities. The placement of the picnic table adjacent to the basketball court will allow us to utilize the lights for such activities as GAIN night which over the last few years we have had attendance levels as high as 250 people.

The tree additions will add to the place making "city in the garden" concept as described in the Character Area narrative and will acualize the meaning of the word "Alameda" in and around Meyer Park. It also demonstrates our NA's support of the established city goals to add shade and grow our urban forest.

Park imporvements work with the future park plans for 2020.

A successful grant inspires and motivates residents to work together on other projcet ideas generated = success build success.

Mandatory attachments (all project types):

• Bids

- * Total project costs under \$5,000: attach a minimum of 2 bids for the work outlined in the grant, including sales tax. Bids must be from licensed, insured contractors. The amount requested must match a bid amount.
- * Total project costs over \$5,000: attach a minimum of 3 bids for the work outlined in the grant, including sales tax. Bids must be from licensed, insured contractors. The amount requested must match a bid amount.
- * If on city property, only one bid may be necessary if project is required to use city contractor.
- * Art projects on city property must use the pre-qualified public artist list. Projects on private property are also welcomed to use list.

• Visuals

Include current pictures of the project site and any other materials to illustrate what the completed project will look like.

• Community Engagement

Include copies of neighborhood meeting notices, postcards and/or newsletters demonstrating all residents were invited to participate.

• Completed Preliminary Site Plan Review submittal form (highlighted areas only)

The Project Description

This grant project will improve Meyer Park which is at the center of three NA Hughes Acres, Meyer Park and Rural Geneva with a household total of 1547. The focus of Meyer Park grant application is to improve the park by adding more shade trees to create a “placemaking hub” embracing the city Urban Forest/Shade goals. The additional picnic tables contribute to the community building as it gives families a place to gather.

This will create a gathering place that builds community. Park improvements will aid in creating a destination, an urban hub or gathering space for the City of Tempe, for surrounding NA, apartment homes and the school communities.

The improvements will create a gathering place for communities to meet and place for larger community building functions such as GAIN night or Arts in the Park.

The additional shade trees will help the city achieve its goals for shade and urban forest.

The trees will have an environmental impact such as much needed shade, water and/ or energy conservation. By adding the trees to Meyer Park, it will work with the Urban Forest Master plan to expand shade and urban cooling. Not only will the trees improve our environment it will also add to the aesthetics of the neighborhood. Chinese Elm and Chinese Pistache has interesting foliage and seasonal color. Live Oak trees also will have beautiful color change in the fall that will add to the beauty of our park.

The addition of the trees will have health advantages for our neighbors. A single large healthy tree can remove greater than 300 pounds of CO2 from the atmosphere every year. Shaded surfaces may be 20-45 degrees cooler, and evapotranspiration can reduce peak summer temperatures by 2-9 degrees. The stated community value can be translated to physical health, promote/ extend healthy behaviors via physical activity throughout the year given a hot desert climate; promotes the use of the Orbit given the park is on the route and promote a healthy community.

“The city Proposes a city-wide goal of 25% tree and shade canopy, In order to reach this aggressive, the City has identified 3 key-public spaces on which to focus the planting and maintenance of new trees over this time: parks and open space, streets and urban hubs are cores of commercial and civic activity that supports the 20 minutes city”

Per Urban Forest Plan, Meyer Park could be enhanced towards overall goal and individual census track goals.

Our grant project complements the proposed improvements planned by the city in 2020 and the Character area Principle of design and placemaking, and the City of Tempe Urban Forestry Master plan.

Because it is a park and works with the Urban Forest Plan, the City of Tempe will maintain the parks grounds.

This process for deciding the grant ideas was in collaboration with the residents in RGNA. We decided as a neighborhood to improve our park. This will not only benefit our neighborhood but the other 2 surrounding NA.



A - 24x15 concrete pad

2 picnic tables

1 - BBQ
* tree (24" dia)



April 19, 2019

Alison Quinn

[REDACTED]
Tempe, AZ 85282

RE: Meyer Park- Concrete and Tree Installation

Thank you for giving Artistic Land Management Inc. the opportunity to serve your landscaping needs. Below is our price to provide all labor, equipment, and supervision to perform the work listed below at Meyer Park in Tempe. Please call with any questions you may have at 480-821-4966.

Scope of Work

- Install 20-24 inch box trees around the park perimeter in selected locations
All trees will be double staked and tied into the existing irrigation
Price per tree = \$275.00

Total Price = \$5,500_{+tax}

- Install 1 - 24ft x 15ft concrete pad for a future park bench off existing sidewalk west of the basketball court.

Total Price = \$3,810.00_{+tax}

Respectfully,

Jose Hernandez



SOMERSET
LANDSCAPE
 A Yellowstone Landscape Company

Landscape Proposal

Date : 04/07/2019 Order# : 10656
 122 Customer : 6044 Meyer Park Community Association
 Job : 7182 Meyer Park Community Assoc. (E)
 Department : Saleperson #: 165

Billed To: Meyer Park Community Association
 2727 S Dorsey Ln
 Tempe AZ 85282

Project / Location 2727 S Dorsey Ln
 Tempe AZ 85282

Customer Order#:

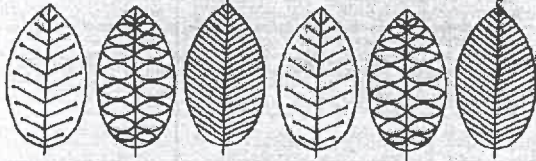
Somerset Landscape will supply all labor and materials as described in the SCOPE OF WORK.

Description	Quantity	Price	Ext Price
Concrete Installation Meyer Park			
Add a concre pad of 25 x 15	1.0000	3,400.000000	3,400.00
Plant diferent trees throughout park	20.0000	280.000000	5,600.00
conect to existing irrigation system to water new trees	16.0000	38.500000	616.00

Notes

NOTE: A service charge of 2.0% per month will be added to any unpaid balance exceeding 30 days past due. Purchaser agrees to pay any and all court costs, legal fees, and/or costs of third parties associated with the collection of payments that are over 30 days past due. (The finance charge is an annual percentage rate of 24%)

Quote Total 9,616.00
 Plus Applicable Taxes



**rural geneva
neighborhood
association**

Wednesday, February 27, 2019 | 6:00 pm
Tempe Public Library, 3500 S. Rural Road

Hello. Please plan to join fellow residents for an important meeting of our voluntary neighborhood association on **Feb. 27th**. We have a number of items to discuss:

- 1. Annual elections for Chair** (I am happy to continue serving in this role - additional nominations prior to or at the meeting are also welcome. Are there residents willing to serve in positions such as Co-Chair and Treasurer, we wish to add?)
- 2. Meyer Park improvements—2018-2019/current grant update.**
- 3. Our remaining account balance of about \$10,000 - let's discuss what we want to do with this money moving forward**
- 4. Project Ideas & discussion re: 2019-2020 Maryanne Corder Neighborhood Grant (Application deadline is April 20)**
- 5. Organizing and hosting a RGNA Spring Fling**
- 6. Police Department Crime Prevention Tips**
- 7. Other topics you would like to bring up**

*Vol Opp
RGNA
annual*

*BACKGROUND- In 1989, as a condition of zoning changes to the Tempe Elementary School District's property at Rural and Southern to allow the building of a grocery store, the Rural Geneva neighborhood was granted funds for neighborhood and community improvements. Some of those improvements in the 1990's included Meyer Park shade structures and volleyball courts and the installation of alley lighting in the neighborhood. The remaining funds have been used over the years to pay for the electricity costs of the alley lighting. The balance of the funds will soon be gone.

If you are not able to attend please email me at

[Redacted] I me c
back to you. Alison Quinn, Chair RGNA

Valy Park 25.

RE: Meyer Park Grant for 2019

Dave McClure <david_mcclure@tempe.gov>
To ALISON QUINN

3/18/2019 6:18 PM

Hi Alison,

If you can mark on a map where the new picnic table area and trees would be located. Also if there **will** be a sidewalk to the new concrete pad where those connections would be.

For the picnic tables please use \$1,439.12 each and for grill use \$300.00 each and this can be used for that part of the quote. For other contractors you can try ELS Landscape or AAA Landscape along with Somerset.

Please let me know if you need anything else.

Thank you,

Dave McClure, PLA CPSI

Landscape Architect

Public Works/Field Operations/Parks

City of Tempe

55 South Priest Drive Tempe, AZ 85281

Direct: 480.350.5221

Cell: 480.245.8525

Fax: 480.350.8166

From: ALISON QUINN

Sent: Monday, March 18, 2019 2:43 PM

To: McClure, Dave <David_McClure@tempe.gov>

Subject: Meyer Park Grant for 2019

Hi Dave,

We are again gathering information for the next grant cycle.

Our last grant included a double picnic table pad on the west side of the basketball court and trees along the northern border of the park. Since we were not awarded the full amount this was left of our last grant. So on this cycle I am proposing with the agreement of our RGNA neighbors to add the double picnic table and more trees. I would like your input and the cost again for the two tables and does the cost include the installation?

I have an email to Darin at Somerset for a bid for the 24X15 pad and to plant trees(the number of trees will depend on the cost of the pad and tables).

I have to get a second bid and wanted to know who you suggest I ask?

If we need to meet at the park to review the location please let me know. The deadline is 5 weeks away so the sooner the

better. Please let me know.

Alison Quinn

RGNA Chair

PS I am going solo on this grant we didnt have time to do a grant together with Meyer Park NA and Hughes ACres NA but

they both know what I am putting in my grant



Jana Lynn Granillo <meyerparktempe@gmail.com>

ADA Accessibility and Maryanne Corder Grant Inquiry

Stokes, Michele <Michele_Stokes@tempe.gov>

Fri, Apr 13, 2018 at 10:00 AM

To: Jana Lynn Granillo <[REDACTED]>

Cc: Alison Quinn <[REDACTED]>

Good morning Jana,

I received your call, thanks for the heads up!

The information provided to Alison Quinn includes what is needed per ADA:

- Wheelchair seating space (dimensions depend on the approach – side or front) at the end of benches and a picnic tables.
- Wheelchair clear space at grills
- Accessible routes to and around the seating areas and the amenities included in the scope of grant.

The plan review, with any revision, after approval, will ensure ADA compliance is achieved and access is included.

Your collaboration regarding inclusion is much appreciated.

Thanks,

Looking forward,

Michele Stokes

Tempe ADA Compliance Specialist

480-350-2704 (Captioned Phone)

31 E. 5th Street, Tempe, AZ 85281

www.Tempe.gov/ADA

Michele Stokes <michele_stokes@tempe.gov>

3/19/2018 4:59 PM

RE: RGNA grant info on Tables and Benches

To ALISON QUINN <[REDACTED]> Copy Dave McClure <david_mcclure@tempe.gov>

Good morning Alison,

See ADA regulations below. **Section 902, and 903** includes the specifications for dining surfaces and benches, which we also apply to outdoor areas.

Picnic tables fall under "dining surfaces." You can find these and more at www.ADA.gov

Note: there are other regulations on bench standards that are different (Outdoor Developed Areas, Architectural Barriers Act). However, they pertain to Federal property and parks, not city parks. (<https://www.access-board.gov/guidelines-and-standards/recreation-facilities/outdoor-developed-areas/a-summary-of-accessibility-standards-for-federal-outdoor-developed-areas/outdoor-constructed-features>).

Dave McClure can provide information regarding acceptable vendors who provide ADA compliant tables and benches.

CHAPTER 9: BUILT-IN ELEMENTS

902 Dining Surfaces and Work Surfaces

902.1 General. Dining surfaces and work surfaces shall comply with 902.2 and 902.3.

EXCEPTION: Dining surfaces and work surfaces for children's use shall be permitted to comply with 902.4.

Advisory 902.1 General. Dining surfaces include, but are not limited to, bars, **tables**, lunch counters, and booths. Examples of work surfaces include writing surfaces, study carrels, student laboratory stations, baby changing and other tables or fixtures for personal grooming, coupon counters, and where covered by the ABA scoping provisions, employee work stations.

902.2 Clear Floor or Ground Space. A clear floor space complying with 305 positioned for a forward approach shall be provided. Knee and toe clearance complying with **306** shall be provided.

306 Knee and Toe Clearance

306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

Advisory 306.1 General. Clearances are measured in relation to the usable clear floor space, not necessarily to the vertical support for an

element. When determining clearance under an object for required turning or maneuvering space, care should be taken to ensure the space is clear of any obstructions.

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

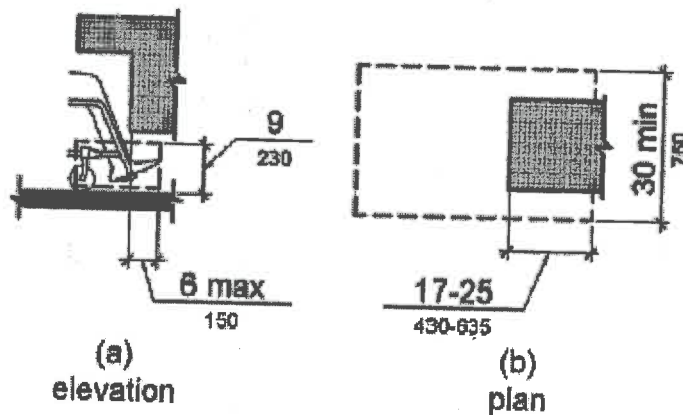


Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280

mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

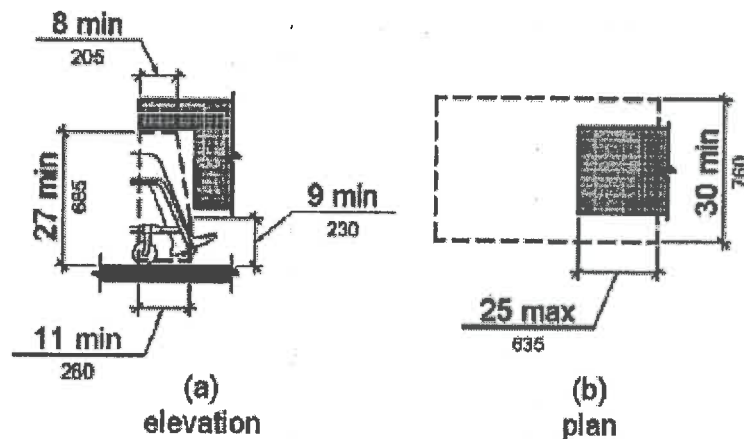


Figure 306.3 Knee Clearance

902.3 Height. The tops of dining surfaces and work surfaces shall be 28 inches (710 mm) minimum and 34 inches (865 mm) maximum above the finish floor or ground.

902.4 Dining Surfaces and Work Surfaces for Children's Use. Accessible dining surfaces and work surfaces for children's use shall comply with 902.4.

EXCEPTION: Dining surfaces and work surfaces that are used primarily by children 5 years and younger shall not be required to comply with 902.4 where a clear floor or ground space complying with 305 positioned for a parallel approach is provided.

902.4.1 Clear Floor or Ground Space. A clear floor space complying with **305** positioned for **forward approach** shall be provided. Knee and toe clearance to **305 Clear Floor or Ground Space**

902.4.2 Height. The tops of tables and counters shall be 26 inches (660 mm) minimum and 30 inches (760 mm) maximum above the finish floor or ground.

305.1 General. Clear floor or ground space shall comply with 305.

305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

305.3 Size. The clear floor or ground space shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

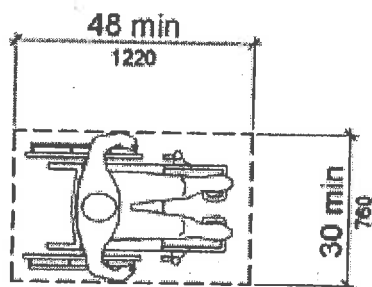


Figure 305.3 Clear Floor or Ground Space

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

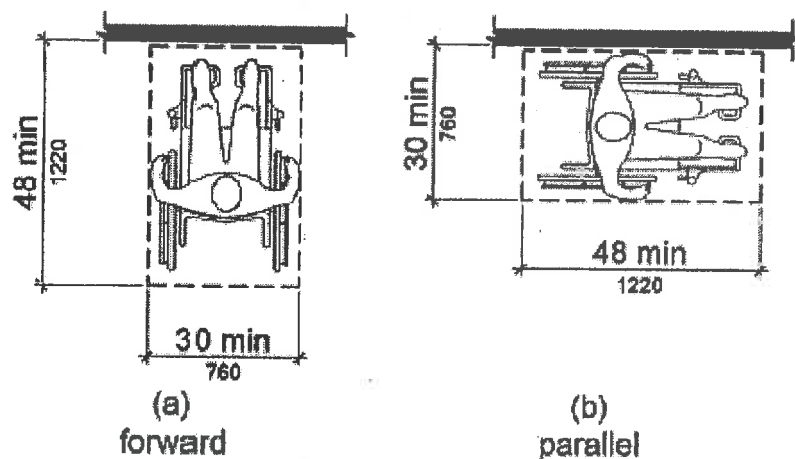


Figure 305.5 Position of Clear Floor or Ground Space

Complying with 306 shall be provided, except that knee clearance 24 inches (610 mm) minimum above the finish floor or ground shall be permitted.

305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.

305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

903 Benches

903.1 General. Benches shall comply with 903.

903.2 Clear Floor or Ground Space. Clear floor or ground space complying with 305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the bench.

903.3 Size. Benches shall have seats that are 42 inches (1065 mm) long minimum and 20 inches (510 mm) deep minimum and 24 inches (610 mm) deep maximum.

903.4 Back Support. The bench shall provide for back support or shall be affixed to a wall. Back support shall be 42 inches (1065 mm) long minimum and shall extend from a point 2 inches (51 mm) maximum above the seat surface to a point 18 inches (455 mm) minimum above the seat surface. Back support shall be 2 1/2 inches (64 mm) maximum from the rear edge of the seat measured horizontally.

Advisory 903.4 Back Support. To assist in transferring to the bench, consider providing grab bars on a wall adjacent to the bench, but not on the seat back. If provided, grab bars cannot obstruct transfer to the bench.

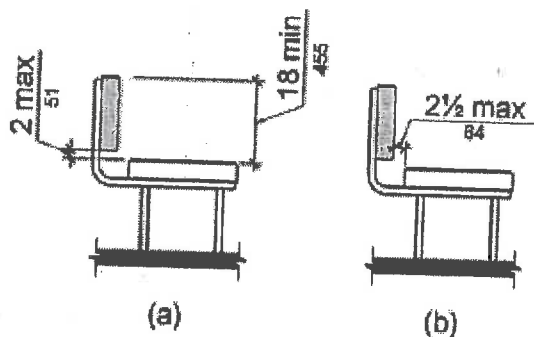


Figure 903.4 Bench Back Support

903.5 Height. The top of the bench seat surface shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the finish floor or ground.

903.6 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

903.7 Wet Locations. Where installed in wet locations, the surface of the seat shall be slip resistant and shall not accumulate water.

Hope this helps!

Thanks,

Looking forward,

Michele Stokes

Tempe ADA Compliance Specialist

480-350-2704 (Captioned Phone)

31 E. 5th Street, Tempe, AZ 85281

www.Tempe.gov/ADA

From: ALISON QUINN [mailto:████████████████████]
Sent: Monday, March 19, 2018 7:27 AM
To: Stokes, Michele <Michele_Stokes@tempe.gov>
Subject: RGNA grant info

Good morning Michele,

Thank you for taking the time to speak with me last week. If you could please send me the ADA requirements for park benches and picnic tables, that will help us with our grant application for improvements at Meyer Park. I am working with Hughes Acres and Meyer Park NA's and Jana has been in contact with Dave.

I am looking forward to working with you in the future.

Alison Quinn

Chair RGNA

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Tree Species Value

In collaboration with Tempe city staff, six drought tolerant species that represent a high prevalence in the existing stock were chosen for a more detailed i-Tree economic value analysis. This analysis illustrates the yearly economic benefits pertaining to energy, carbon reduction, stormwater management and aesthetic appeal at maturity. The six tree species detailed in the following graphic were chosen to give City of Tempe guidance when choosing species for expanding the urban forest. This list is not meant to be a recommendation, as the siting of individual trees is very location specific and should be based on a Right Tree, Right Place planting strategy.

Chinese Elm	\$296	Palo Verde	\$200
Mesquite	\$171	Desert Willow	\$84
Live Oak	\$180	Chinese Pistache	\$101

Additional analysis was done to evaluate the annual economic value of a tree at initial planting vs. the economic value at maturity. The analysis, detailed below in Table 4, assumes the following:

1. Freshly planted trees have a diameter at breast height (DBH) of 0-6 inches
2. Mature trees have a DBH of 12-18 inches. DBH, is a standard method of expressing the diameter of the trunk of a standing tree.

Species	0-6" DBH		12-18" DBH		0-6" DBH		12-18" DBH		0-6" DBH		12-18" DBH	
	0-6" DBH	12-18" DBH	0-6" DBH	12-18" DBH	0-6" DBH	12-18" DBH	0-6" DBH	12-18" DBH	0-6" DBH	12-18" DBH	0-6" DBH	12-18" DBH
Chinese Elm	5.72	37.97	0.19	1.11	2.17	22.45	1.16	9.14	73.75	225.17	\$82.98	\$295.84
Desert Willow	2.00	15.88	0.08	0.45	0.15	4.15	0.31	2.34	17.79	61.59	\$20.33	\$84.40
Live Oak	2.90	17.52	0.33	2.54	-1.72	-8.95	0.96	6.12	35.84	162.94	\$38.30	\$180.16
Mesquite	3.80	20.33	0.21	0.82	1.24	9.92	1.09	6.38	64.45	133.87	\$70.79	\$171.32
Palo Verde	4.27	24.34	0.15	1.10	1.28	12.43	1.09	6.75	41.68	155.42	\$48.46	\$200.05
Chinese Pistache	2.66	22.26	0.11	0.45	-0.11	5.51	0.57	5.00	43.04	67.52	\$46.27	\$100.74

Table 4: Tree Species Annual Value at DBH (source: i-Tree)

Scientific: Ulmus parvifolia
Common: Chinese elm (lacebark elm)
Family: Ulmaceae
Origin: China

Pronunciation: UL-mus par-vi-FO-le-a

Hardiness zones
Sunset 8,9, 12-24
USDA 6-11

Landscape Use: Residential shade tree, street tree, accent. Also, makes an excellent bonsai.

Form & Character: Upright, inverted vase with an open canopy and umbrella top spread, small branches are weeping especially if propagated from stem cutting. With training. It is duly noted that Chinese elm can have the quintessential inverted vase form that's ideal for trees in urban settings.

Growth Habit: Woody, semi-evergreen perennial tree, Moderate to fast to 40 to 60 feet with equal spread.

Foliage/texture: Small 1 to 3 inches long, elliptic to ovate leaves with serrate margins and an inequilaterally or cuneate base, alternate arrangement, 'bark' is shed in a 'puzzle-piece' fashion; medium fine texture.

Flowers & fruits: Flowers greenish yellow in late summer of year followed by single-winged samara that are greenish pink in late fall to winter.

Seasonal color: Brilliant, light green foliage in spring, sometimes yellowish-red fall to winter color from foliage during cooler falls and early cold winters. Stays evergreen though in coastal southern California.

Temperature: Hardy, but in Phoenix the foliage will become marginally necrotic in late summer and early fall due to summer heat stress.

Light: Full sun

Soil: Tolerant

Watering: To maintain vigor, irrigate regularly during spring, summer and early fall. Supplemental water also improves appearance.

Pruning: Needs to be vigorously trained and staked when young, especially if asexually propagated from cutting.

Propagation: Cutting or seed. Most locally available trees are cutting grown.

Disease and pests: Sometimes susceptible to Texas root rot, but resistance to Dutch elm disease. In addition, cultivars 'Drake', 'Truegreen' and 'Evergreen' are susceptible to canker disease (*Fusarium lateritium* and *Diplodia sp.*).

Additional comments: One of the best mesic shade trees for the lower Arizona desert landscapes, Chinese evergreen elm has the quintessential urban form. There are numerous cultivars such as:

'Allee'TM - also known as 'Emer II' or 'Emerald Vase', is a common cultivar with unusual bark fluting and high stress resistance to urban conditions.

'Brea' - has relatively large dark green leaves that gives the tree a lustrous, coarser texture.

'Cork Bark' - also know as 'Corticosa'; trunk has a corky bark.

'Drake' - has relatively smaller leaves yielding a finer overaell texture; not as cold hardy thus is best in southern climates.

'Dynasty' - is a National Arboretum selection with great orange-yellow fall color.

'Emerald I' - has a broadly rounded shape with orange, gray and brown bark.

'Emerald II' - is a stress tolerant cultivar tree with attractive mottled bark.

'Sempervirens' - is best for warm coastal climates of southern California and Florida; has a mostly evergreen habit.

'True Green' - has a evergreen, pendulous habit.

'Yatsubusa' - is a dwarf cultivar growing only 6 feet tall.

In the nursery and landscape trades Chinese elm is sometimes confused with with *U. pumila* (Siberian elm). Siberian elm flowers in spring, has a relatively stiff and rigid growth habit, weaker and more brittle wood, produces more litter, and has less glossy leaves than Chinese elm. Most experts outside of the upper Midwest and Plains states (where Chinese elm does not grow) consider Siberian elm to be a trash tree when compared to Chinese elm.

Scientific: Pistacia chinensis
Common: Chinese pistache
Family: Anacardiaceae
Origin: Midwestern China, Phillipines

Pronunciation: Pis-TA-cee-a chi-NEN-sis

Hardiness zones
Sunset 4-11, 12-15, 18-23
USDA 7-11

Landscape Use: Mesic shade tree for large residential and commercial landscapes, sometimes used as a lawn tree, fall color.

Form & Character: Umbrella top, coarse branch architecture, canopy outline is oval to rounded, mesic, wonderful especially in the fall.

Growth Habit: Woody, deciduous, perennial tree, moderately slow when young to moderate with age eventually reaching 30 to 35 feet high with a canopy spread 25 to 35 feet; under good conditions might grow to 50 feet in height with a 70 feet spread.

Foliage/texture: Alternate, compound even pinnate, about 10 inches long, 10 to 12 pairs of leaflets, each leaflet 2 to 4 inches long, 3/4 inch wide, terminal leaflets the shortest, lanceolate, short-stalked, acute or acuminate, mucronate to cuspidate, oblique, entire, glabrous at maturity, lustrous dark green; petiole is 1 to 4 inches long, fall and early winter foliage turns scarlet to sometimes yellow, foliage reappears in April; medium coarse texture.

Flowers & fruits: Dioecious, flowers in winter when deciduous, male flowers in compound 2 to 3 panicles, females flowers in 7 to 9 panicles, both greenish not showy; fruit on female tree a globose drupe turns bright red then blue in winter and early spring, loved by birds.

Seasonal color: Yellow to scarlet red late fall color of leaves one of most dependable in urban desert cities.

Temperature: Tolerant

Light: Full sun

Soil: Well drained deep fertile soils are best, avoid sites with shallow soils and caliche.

Watering: Apply regular, deep supplemental water.

Pruning: Elevate canopy base to desired height.

Propagation: Semi-soft wood cuttings

Disease and pests: Verticillium wilt is rare, phytophthora root rot is not. Resistant to chestnut blight.

Additional comments: Arguably Chinese pistache has the finest fall color of any tree taxon in Phoenix. It typically shows fall leaf color in December with new leaves emerging in late March to

early April. It also gives a rather dense shade. In summary, I think Chinese pistache is a wonderful broad-canopied deciduous tree with exquisite trunk bark characteristics and resounding fall color.

There are several newer cultivars and hybrids with subtle unique accent features. *P. chinensis* 'Sarah's Radiance', a wonderful shade tree with vibrant fall color, is a grafted selection whose rootstock is 'Red Push' pistache, a hybrid selection between *P. atlantica* and *P. integerrima*. 'Sarah's Radiance' is available locally at Mountain States Wholesale Nursery. *P. atlantica* and *P. lenticus* (small, evergreen dense canopy) are also much deserving of landscape use in the Phoenix area.