



ALPINE CITY COUNCIL MEETING AGENDA

NOTICE is hereby given that the **CITY COUNCIL** of Alpine City, Utah will hold a Public Meeting on **Tuesday, November 13, 2018 at 6:00 pm** at Alpine City Hall, 20 North Main, Alpine, Utah as follows:

- 6:00 PM**
- I. CALL MEETING TO ORDER** *Council Members may participate electronically by phone.
 - II. ADJOURN TO EXECUTIVE SESSION:** Discuss litigation.
- 7:30 PM**
- III. RETURN TO OPEN MEETING**
 - A. Roll Call:** Mayor Troy Stout
 - B. Prayer:** Carla Merrill
 - C. Pledge of Allegiance:** By invitation
 - IV. CONSENT CALENDAR**
 - A. Minutes of the City Council Meeting of October 23, 2018**
 - B. Final Payment Request – Granite Construction, 2018 Overlay Project - \$186,991.05**
 - C. Final Payment Request – Stapp Construction, Waterline Project - \$15,074.92**
 - D. SCI Payment – PI Meter Install #1 Phase 2 - \$246,116.50**
 - E. SCI Payment – PI Meter Install #2 Phase 1 - \$41,111.25**
 - F. Bond Release #5 -North Point View, Plat C - \$40,956.40**
 - V. PUBLIC COMMENT**
 - VI. REPORTS and PRESENTATIONS**
 - A. RCV – Ranked Candidate Voting**
 - B. Code Enforcement Report – Ted Stillman**
 - C. Financial Report – Shane Sorensen**
 - D. Pressurized Irrigation Annual Use Report**
 - VII. ACTION/DISCUSSION ITEMS**
 - A. 2019 Annual Meeting Schedule.** The City Council will consider approving the proposed meeting schedule for 2019.
 - B. Electric Car Charging Station Grant.** The City Council will consider applying for a grant to install a car charging station in Alpine.
 - C. Tree Guidelines.** The City Council will consider adopting tree guidelines for Alpine to prevent damage to sidewalks, etc.
 - VIII. STAFF REPORTS**
 - IX. COUNCIL COMMUNICATION**
 - X. EXECUTIVE SESSION:** Discuss litigation, property acquisition or the professional character, conduct or competency of personnel.

ADJOURN

Mayor Troy Stout
November 9, 2018

THE PUBLIC IS INVITED TO PARTICIPATE IN ALL CITY COUNCIL MEETINGS. If you need a special accommodation to participate, please call the City Recorder's Office at (801) 756-6347 x 4.
CERTIFICATE OF POSTING. The undersigned duly appointed recorder does hereby certify that the above agenda notice was on the bulletin board located inside City Hall at 20 North Main and sent by e-mail to The Daily Herald located in Provo, UT, a local newspaper circulated in Alpine, UT. This agenda is also available on our web site at www.alpinecity.org and on the Utah Public Meeting Notices website at www.utah.gov/pmn/index.html

PUBLIC MEETING AND PUBLIC HEARING ETIQUETTE

Please remember all public meetings and public hearings are now recorded.

- All comments **must** be recognized by the Chairperson and addressed through the microphone.
- When speaking to the Planning Commission/City Council, please stand, speak slowly and clearly into the microphone, and state your name and address for the recorded record.
- Be respectful to others and refrain from disruptions during the meeting. Please refrain from conversation with others in the audience as the microphones are very sensitive and can pick up whispers in the back of the room.
- Keep comments constructive and not disruptive.
- Avoid verbal approval or dissatisfaction of the ongoing discussion (i.e., booing or applauding).
- Exhibits (photos, petitions, etc.) given to the City become the property of the City.
- Please silence all cellular phones, beepers, pagers or other noise making devices.
- Be considerate of others who wish to speak by limiting your comments to a reasonable length, and avoiding repetition of what has already been said. Individuals may be limited to two minutes and group representatives may be limited to five minutes.
- Refrain from congregating near the doors or in the lobby area outside the council room to talk as it can be very noisy and disruptive. If you must carry on conversation in this area, please be as quiet as possible. (The doors must remain open during a public meeting/hearing.)

Public Hearing vs. Public Meeting

If the meeting is a **public hearing**, the public may participate during that time and may present opinions and evidence for the issue for which the hearing is being held. In a public hearing there may be some restrictions on participation such as time limits.

Anyone can observe a **public meeting**, but there is no right to speak or be heard there - the public participates in presenting opinions and evidence at the pleasure of the body conducting the meeting.

ALPINE CITY COUNCIL MEETING
Alpine City Hall, 20 N. Main, Alpine, UT
October 23, 2018

I. CALL MEETING TO ORDER: The meeting was called to order at 7:00 pm by Mayor Troy Stout. The following were present and constituted a quorum:

A. Roll Call

Mayor Troy Stout

Councilmembers: Jason Thelin, Carla Merrill, Lon Lott, Ramon Beck

Councilmembers not present: Kimberly Bryant

Staff: Shane Sorensen, Charmayne Warnock, David Church, Austin Roy, Chief Brian Gwilliam

Others: Kelly Palmer, Dale Buxton – Bank of American Fork, Stephan Neelman, Gale Rudolph, Mike Russon, Heidi Ainge, Paul Kroff, Breezy Anson, Rob Burgess, Cori Russon, Mike Russon, Sherrie Mehl, Will Jones

B. Prayer:

Troy Stout

C. Pledge of Allegiance:

Lon Lott

II. CONSENT CALENDAR

A. Minutes of the City Council meeting of October 9, 2018

MOTION: Lon Lott moved to approve consent calendar. Carla Merrill seconded. Ayes: 3 Nays: 0. Ramon Beck was not present at the time of the motion.

Ayes

Jason Thelin
 Carla Merrill
 Lon Lott

Nays

None

III. PUBLIC COMMENT

Sherrie Mehl – 149 N. 300 E. Ms. Mehl said she had a statement she wanted to make about Alpine Days which she read to the Council. Basically, her statement was that while she appreciates all the time and work that goes into Alpine Days, she wishes it would return to a more hometown type celebration that it was a few years ago. The statement is included at the end of the minutes.

IV. REPORTS and PRESENTATIONS

A. Financial Report: Shane Sorensen presented the financial report. He said the sale tax revenue typically lagged and there were some items under seasonal parks employees and the PI fund that needed to be corrected. Expenses for the PI meter replacements were incurred earlier but the reimbursement grant was not received until recently. They had just received the first reimbursement check of \$330,000 but it was not reflected in the current finance report. The reimbursement would bring it back into balance. He said everything else was in line for where it should be for that time of year.

V. ACTION/DISCUSSION ITEMS

A. Setback Exception Request – Gateway Historic & Business Commercial Zone – Bank of American Fork: Mayor Stout said they would move this item down farther on the agenda until Ramon Beck could participate.

B. The Ridge at Alpine Subdivision, Phase I – Final – Paul Kroff: Austin Roy said Phase I consisted of 9 lots ranging in size from 0.46 acre to 3.15 acres on approximately 133.68 acres. They were proposing 123.74 acres of private open space within that acreage. The project was a PRD located in the CR-40,000 zone, which allowed varying lot sizes. The developer had not requested increased density.

The Planning Commission had reviewed the subdivision and made a motion to recommend approval, but their motion did not pass. They had three ayes and two nays. According to Alpine City ordinance and state code, a quorum of aye votes was required for a motion to pass. A quorum for Alpine City's Planning Commission, which has seven members, would be four.

City Planner, Austin Roy, reviewed the issues with the proposed subdivision.

1. The first issue that needed to be resolved was the variable speed pump that was required for the development. Shane Sorensen said city staff was still trying to decide what would work best.
2. A secondary access would be required for Phase I. The fire chief had approved a temporary connection from Elk Ridge Lane to Grove Drive as the secondary access, which would need to be maintained and have an all-weather surface. Shane Sorensen said part of the road was paved and the rest was gravel. David Church said that since it was temporary and not a dedicated road, the developer would need to maintain it and it would need to remain open and accessible. Paul Kroff said it would not be gated. David Church said the Annexation Agreement required dedication of the right-of-way for the secondary access in the first phase.
3. There had been a question about the elevation of lot 72 in relation to Deer Crest Court in Heritage Hills. Austin Roy said lot 72 had an elevation of 5340 feet which was about 100 feet higher than Deer Crest Court which was 5230 feet. He said the Planning and Zoning staff had an issue with lot 72 which did not meet the scenic intent and clustering requirements for a PRD.
4. The trail head was located at the beginning of the road up to lot 72 and was adjacent to another building lot. There would need to be some kind of screening between the trailhead parking lot and the adjacent lots. A park was planned in another phase which would also need screening between it and adjacent lots.
5. Lot 70 had double frontage but could be accessed only from the culdesac.
6. There were a number of engineering issues. Austin Roy said most of the redlines had been addressed.
7. The Grant residence would need to be demolished along with the sewer/septic system. Proper documentation would need to be provided.
8. The developer would need to meet the water policy with Alpine Irrigation water shares.
9. The developer would need to provide cost estimates for offsite improvements and provide funds to the City to cover the cost of the future improvements on Grove Drive.
10. The retaining wall on lot 72 did not meet current engineering standards and would need to be addressed. Staff determined it was not structurally sound and would need to come down. There were already erosion problems with it.
11. Trail alignment.

Discussion on trails

Paul Kroff said they had gone out and flagged the trails and determined that the proposed trail was not going to work. The biggest challenge was the steepness of the ground. A different alignment was proposed which was more moderate and could be a two-way trail. It would be closer to some of the lots but there was a lot of scrub oak which could provide some privacy.

Breezy Anson from the Trail Committee was invited to present information from the trail committee. He reviewed his experience of walking the trails and showed on the map where the trails would be located. There was a lengthy discussion about the trails and what the Council would and would not accept. The City needed a letter from the trail committee signing off on the trail alignment in the subdivision.

Troy Stout said the trail committee had determined that the trail through the conservation easement wasn't very usable and was willing abandon it in exchange for getting what they wanted on other trails. David Church said they would need to amend the conservation easement to reflect that, and it should be included in the motion.

Shane Sorensen noted that trail easements needed to be shown on the plat as 20 feet wide rather than 10 feet, and deeded in fee simple to the City.

Discussion on private open space

Jason Thelin asked if the Council could change the terms of the private open space agreement later on if they needed to. David Church it could be done only with the cooperation of the entity that owned it, which would most likely be the HOA.

The attorney for the Ridge at Alpine said the HOA would be obligated to enter into covenants for the private open space that would be similar to the covenants in the conservation easement.

Jason Thelin said he was concerned that if there was fencing in the private open space, it would interfere with the trail. He wanted to know how the open space would be used?

Paul Kroff said it was their intent that fences would be pulled in so they did not intersect the trails.

Jason Thelin said he didn't think it had been the Council's intent that the private open space could be used for grazing when they approved it as private. There followed a discussion about grazing rights in the private open space. Mr. Thelin questioned if other members of the HOA would be okay with one member using the open space for grazing. He said he felt that grazing, fencing, motorized vehicles, shooting and trapping should be prohibited in the private open space.

Discussion on lot 72

Lon Lott said lot 72 had always been a concern. It was discussed in the minutes of September 2016 when they got a new concept plan. The purpose of a PRD was to move larger lots up onto the hill in order to have less density higher up, and lots were to be clustered. He recalled Paul Kroff saying that if the development plan met the ordinance they had a right to build lot 72. Lon Lott said the lot concerned him. He didn't feel it met the intent of the PRD.

Austin Roy read the definition of a cluster. He said the interpretation by staff was that homes were to be kept together to keep the open space open.

Carla Merrill said she didn't like lot 72. She did not feel it was in line with the PRD or Open Space ordinances where the intent was to preserve the viewscapes and natural ridgelines. She said lot 72 destroyed all that.

Jason Thelin said he used to be opposed to lot 72 but believed they could work with it.

The attorney for the Ridge at Alpine said he did not believe Alpine City's ordinance had specific criteria to prohibit the lot. The ordinance stated that lots needed to be clustered, not the houses, and the lot itself was clustered with the other lots. If some aspect of an ordinance was unclear and went to court, it was interpreted in favor of the landowner. The area where the house would be located was identified as an area suitable for development.

Carla Merrill said she would be okay with lot 72 if the developer agreed to connect the trails. Paul Kroff said they would do that.

MOTION: Jason Thelin moved to approve the Final Plat of Phase I of The Ridge at Alpine with the following conditions:

1. Lot 72 be allowed as platted
2. Prior to recordation, the developer work with the Trail Committee to lay out an acceptable trail plan.
3. The center trail will be eliminated
4. The trails on the east and west will be included in the plan.
5. If any portion of the west trail is outside of subdivision boundaries, appropriate easements will be need to be obtained from those property owners.
6. The developer will build the trail connecting to the trail in the North Point subdivision
7. The Conservation Easement be amended to show abandonment of the trail in the Easement.
8. Comply with the conditions of the Development Agreement.
9. Use of the private open space will be restricted; motorized vehicles, shooting, trapping, and fences will be prohibited.

10. Record a Conservation Easement for the private open space.
11. The retaining wall along the driveway to lot 72 will be taken down and a new wall will be engineered and built to Alpine City standards.
12. Water and sewer easements be included on lot 72.
13. The variable speed pump will be built with Phase I.
14. The developer shall provide screening between the parking lots and residential areas.
15. The easement for the trails shall be shown as 20 feet instead of 10 feet.
16. Acquire an approved demolition permit for the demolition of the Grant house and septic system, and provide documentation.
17. Provide funds for the Grove Drive improvements.
18. Lot 70 will have no access from Elk Ridge Lane.
19. Provide alternate addresses for lots 68 and 69.
20. Lot 64 will have no access onto Elk Ridge Lane because of the detention pond.
21. Address all redlines on the plat and construction drawings.
22. Meet the water policy with Alpine Irrigation Company water shares.
23. Provide an engineer's cost estimate for all of Phase I construction items.
24. Easements for trails and ponds be shown on the plat.

Lon Lott seconded. Ayes: 3 Nays: 1 Motion passed. Lon Lott voted nay stating that he disagreed with the limitation on fencing.

Ayes

Jason Thelin
Ramon Beck
Carla Merrill

Nays

Lon Lott

Setback Exception Request - Bank of American Fork: Shane Sorensen said this item was voted on at the previous meeting of October 9th, but they were bringing it back because there had been some confusion about what was being asked for and what was approved. Since that time, the architect provided an updated drawing on the proposal, which was more clear.

Austin Roy said the bank was proposing to build a new building on the same site occupied by the old bank. The difference was that they were proposing to angle the building, which would improve the sight triangle on the corner of Main Street and 100 South, and also move the drive-through service farther back from the street which would also improve safety. The bank also wanted to keep the three parking spaces which were currently in the setback. They would need an exception to the setbacks and an exception for parking in the setback. He said the ordinance allowed the City Council to approve exceptions in the Gateway Historic zone if they found that the exceptions would better implement the design. The setbacks would be 10'2" on the north and 20'10" on the west as measured one foot behind the sidewalk.

Shane Sorensen said staff recommended approval of the exception to the setbacks and parking because they would improve safety.

Kelly Palmer, Branch Manager of the Alpine Branch of the Bank of American Fork, said they had debated whether or not to remodel the existing building or tear it down and build a new one. The advantage of building a new one was that they could address the safety issues associated with the sight triangle and the drive-throughs. If they simply remodeled, the problems would remain.

MOTION: Lon Lott moved to approve an exception to the setback requirements for the Bank of American Fork as shown on the drawing with a setback of 10'2" on the north and 20'10" on the west as measured one foot behind the sidewalk, and allow on exception for three parking spaces in the setback. Ramon Beck seconded. Ayes: 3 Nays: 0. Motion passed.

Ayes

Ramon Beck

Nays

Jason Thelin

Carla Merrill
Lon Lott

C. Sale of City Property – 0.43 acres at the corner of Canyon Crest Road and Ridge Drive. Shane Sorensen said this was an item the City had looked at earlier in the year. The Planning Commission held a public hearing on February 6, 2018 as required by ordinance. The City Council discussed the request at their meeting of February 27th and decided to request bids from neighboring property owners. There was only one bid, which was from Steve Neelman for \$27,500. Shane Sorensen said there would need to be a stipulation that the property could not be combined with other property to create a building lot. The property contained a storm drain easement which the buyer could relocate if he chose to. The City would retain the corner to preserve the sight triangle and as the location specified for temporary signs.

Jason Thelin asked if they City could keep a little more ground to increase the sight triangle. Mr. Neelman said he would be fine with that. It was suggested they include the storm drain box on the city property.

MOTION: Carla Merrill moved to approve the sale of the property located at the corner of Ridge Drive and Canyon Crest Road to Steve Neelman for \$27,500.00 but adjust the property line so it was south of the storm drain box. Ramon Beck seconded. Ayes: 4 Nays: 0.

<u>Ayes</u>	<u>Nays</u>
Jason Thelin	None
Ramon Beck	
Carla Merrill	
Lon Lott	

D. Ordinance No. 2018-09 Amending Article 4.6 of the Development code. Austin Roy said the proposed amendment dealt with the submission requirements for major subdivisions. Since many things were done electronically, they didn't need 12 copies of the subdivision plat. It also consolidated some text and updated the verbiage about SWPPP.

MOTION: Lon Lott moved to approved Ordinance No. 2018-09 Amending Article 4.6 of the Alpine City Development Code. Ramon Beck seconded. Ayes: 4 Nays: 0. Motion passed.

<u>Ayes</u>	<u>Nays</u>
Jason Thelin	None
Ramon Beck	
Carla Merrill	
Lon Lott	

E. Ordinance No. 2018-10 Amending Section 4.7.4.11 of the Alpine City Development - Curb Radii. The proposed amendment defined a specific minimum radius for property lines and back of curb intersections based on industry standards. Shane Sorensen said the City had always used those standards. This was just a clarification.

MOTION: Ramon Beck moved to approve Ordinance No. 2018-10 amending Section 4.7.4.11 of the Alpine city Development Code. Lon Lott seconded. Ayes: 4 Nays: 0. Motion passed.

<u>Ayes</u>	<u>Nays</u>
Jason Thelin	None
Ramon Beck	
Carla Merrill	
Lon Lott	

F. Trail Master Plan: Mayor Stout said they had discussed alignment of the trails earlier in the discussion on the Ridge at Alpine subdivision. Those trails should be reflected on the Trail Master Plan map.

MOTION: Carla Merrill moved to approve the Trail Master Plan with the following changes:

1. Delete the center trail
2. Add the connecting trail from Alpine Cove over to the Lehi Connection.
3. Show a north/south connector from the pond to the north of the Cove Trail.

Lon Lott seconded. Ayes: 4 Nays: 0. Motion passed.

<u>Ayes</u>	<u>Nays</u>
Jason Thelin	None
Ramon Beck	
Carla Merrill	
Lon Lott	

VI. STAFF REPORTS

Charmayne Warnock said she had emailed the Council the information about Ranked Candidate Voting (RCV) which was a proposal by some state legislators that would allow cities with nonpartisan municipal elections to eliminate the need for a primary election by having a ballot where all the candidates were listed and voters could rank them according to preference. She asked if the Council was interested hearing a presentation on RCV. They indicated they were.

Shane Sorensen said that at the last meeting, Mayor Stout had asked staff to find out how many members of the various soccer teams were actually from Alpine in order to decide how many soccer fields they needed. Shane Sorensen said the North Utah County soccer league had 239 players from Alpine. The USC had 67 from Alpine. SURF had 70 members from Alpine and were expecting another 10 to 15 players. La Roca didn't not use the Smooth Canyon fields. He did not have numbers from the past to see how it was trending.

VII. COUNCIL COMMUNICATION

Troy Stout said he just wanted to point out another sports related item. Chase Hansen at Lone Peak High School was doing really well. He would be one to watch in the future.

VIII. EXECUTIVE SESSION

MOTION: Lon Lott moved to go to executive session for the purpose of discussing litigation. Ramon Beck seconded. Ayes: 4 Nays: 0. Motion passed.

<u>Ayes</u>	<u>Nays</u>
Jason Thelin	None
Ramon Beck	
Carla Merrill	
Lon Lott	

The Council returned to open session at 10:20 pm

MOTION: Lon Lott moved to adjourn. Ramon Beck seconded. Ayes: 4 Nays: 0. Motion passed.

The meeting was adjourned at 10:20 pm.

ALPINE DAYS CITY PRESENTATION 23 OCT 2018

My husband and I moved into Alpine on Friday, August 9th, 2002. The week ending the annual Alpine Day festivities. The following morning, Saturday, August 10th, a hometown parade lined the main street and proceeded to Alpine Elementary. We thought the city was celebrating because we moved in.

Legacy park was filled with games, displays, food, music and fun for all. The residents of Alpine City mingled, entertained, shared and rejoiced in rubbing shoulders, spending time together and lifting one another. An event unlike any city I'd ever known. Over the years we came to treasure the annual gathering and heritage of this great City of Alpine and it's people. In a very short time we felt like it was HOME.

My employment, at the time, required my working Saturday. I longed for the day when that would change, That I could become more involved with this heart warming event. Twelve years passed and that day arrived. To my disappointment Alpine Days was no longer the special gathering I had come to adore. Suddenly it turned into a fiasco of food trucks, carnival gear, outside entertainment and crowds of unknown faces. The first year it changed I took my grandkids to the Carnival on Friday night. What my grandkids wanted most was to do the Bungie Jump. The line was long so I suggested I stand in line for them while they eat and try a few other things. I stood in line for 2 hours. When i got to the front they told me it was closing down. I pleaded with them to close the line and finish those that had waited so long. They agreed to do a few, at least. I don't know how many walked away disappointed. And I certainly didn't enjoy the evening with my family as I had planned. The Foam Party sponsored by the Fire Department was one of the scariest things I have experienced. Little children were being lost in the crowd, sliding and falling to the ground, being trampled by other kids. I couldn't believe the Fire Department would sponsor such an event. We always depict them as service individuals who protect us.

Then advertising and publicity has created chaos for our hometown. In my commute to work I heard it advertised on the radio. I saw it on the internet in a couple of places and read an article in the Daily Herald. Is it the intent of our City to bring others from all communities that we endanger our small town security.

Boisterous sounds now fill the air. I did not recognize even one artist scheduled to perform. Because Alpine does not have an enclosed outdoor stage the sound echos from mountain to mountain and even the feedback monitors don't help the performers and they sing off key and not with the music. It's so excruciating that our grandkids plug their ears inside our home and beg us to turn it off.

Now our streets and parks are loitered with trash, overwhelming crowds and stress to the max during Alpine Days. Creating many extra man hours for our city to clean up and repair. Outsiders now use our parks for yearly recreation making it harder for Alpine residents to use them. Currently, many seek for refuge during the Alpine celebration and plan events away from home to survive this tragic and dramatic change to our community.

We must find a way to regain our peace, love, strength, courage, decency and safety for one another. Alpine residents should be on showcase during our City Celebration. Games, entertainment, food, talent and atmosphere must return to the responsibility and fulfillment of this people. The local residents.

The amazing talents and gifts obtained by years of hard work and dedication on behalf of the residents of this community could once again fill the stages and provide nourishment and support for our community. An annual talent show could determine the governing acts for the Friday Night and Saturday Stage Entertainment. Or perhaps local groups could be scheduled to entertain in Legacy park on the Monday nights during the summer. This year there was very little to no entertainment scheduled. It was a letdown. Then we could have the community vote and the most popular groups could be on stage during the Friday and Saturday night Alpine Days Carnival. Just a thought.

To summarize, local residents could share nourishing food and home baked items at every booth. Our Youth could provide games and activities to build their entrepreneur spirit and provide funds for their yearly activities and events. These are not my ideas. They are the way it used to be done. The traditions of Alpine Days. No One has the right to change that!

We must return to the simple joy of living together, supporting and strengthening one another as the Great Residents of Alpine Utah. This community is unique. Let us bring our BEST forward and turn this around, remembering who we are.

FINAL PAYMENT REQUEST

Name of Contractor:		Granite Construction	
Name of Owner:		Alpine City	
Date of Completion:		Amount of Contract:	Dates of Estimate:
Original: 15-Oct-18	Original:	\$185,090.40	From: 7-Sep-18
Revised:	Revised:	\$186,991.05	To: 15-Oct-18
Description of Job: Alpine City - 2018 Overlay Project			
Original Contract Amount			
Amount	This Period	Total To Date	
Amount Earned	\$186,991.05	\$186,991.05	
Amount Retained	\$0.00	\$0.00	
Retainage Paid	\$0.00	\$0.00	
Previous Payments		\$186,991.05	
Amount Due	\$186,991.05	\$0.00	
Days Remaining	0 of 83	Percent Time Used:	100.0%
Estimated Percentage of Job Completed		100%	
Contractor's Construction Progress IS on schedule			

I hereby certify that I have carefully inspected the work and as a result of my inspection and to the best of my knowledge and belief, the quantities shown in this estimate are correct and have not been on previous estimates and the work has been performed in accordance with the Contract Documents

Recommended by: Alpine City Engineering Dept.

Date: 10/29/2018


Shane L. Sorensen, P.E.
Public Works Director

Accepted by: Granite Construction

Date: _____

Granite Construction

Approved By: Alpine City

Date: _____

Troy Stout
Mayor

Project Owner: Alpine City
 Project: Alpine City - 2018 Overlay Project
 Contractor: Granite Construction

Date: 3-Oct-14

Original Contract Amount: \$185,090.40
 Revised Contract Amount:

Item	Description	Quantity	Units	Unit Price	Amount	Final Payest		Total Billing		Percent Complete
						Quantity this Month	Earnings this Month	Quantity to Date	Earnings to Date	
BID SCHEDULE										
1	Mobilization (not to exceed 5%)	1	LS	\$ 8,680.00	\$ 8,680.00	1	\$8,680.00	1	\$8,680.00	100.0%
2	Lane Levelling (more or less quantity)	80	Ton	\$ 62.00	\$ 4,960.00	30	\$1,860.00	30	\$1,860.00	37.5%
3	Full Width Rotomilling	30,272	SF	\$ 0.25	\$ 7,568.00	41,794	\$10,448.50	41,794	\$10,448.50	138.1%
4	Reconstruct/Regrade Full Width Pavement Section	12,048	SF	\$ 1.30	\$ 15,662.40	12,704	\$16,515.20	12,704	\$16,515.20	105.4%
5	2" Trench Patch	3,700	SF	\$ 1.25	\$ 4,625.00	2,875	\$3,593.75	2,875	\$3,593.75	77.7%
6	2-inch Asphalt Overlay (including edge milling and traffic control)	159,550	SF	\$ 0.90	\$ 143,595.00	162,104	\$145,893.60	162,104	\$145,893.60	101.6%
Total Bid/Contract					\$185,090.40					
Partial Payment Sub-Total							\$186,991.05		\$186,991.05	
Additive Alternates										
Change Orders										
	Change Order Sub-Total				\$0.00		\$0.00		\$0.00	
	Total Revised				\$185,090.40		\$186,991.05		\$186,991.05	
	5% Retainage				-					
	Add Retainage									
	Total				\$185,090.40		\$186,991.05		\$186,991.05	

**PAYMENT ESTIMATE
FINAL**

Name of Contractor: ***Stapp Construction***

Name of Owner: ***Alpine City***

Date of Completion:

Original: 5-May-18

Revised: 5-May-18

Amount of Contract:

Original: \$213,297.00

Revised: \$260,878.80

Dates of Estimate:

From: 1-Jun-18

To: 31-Oct-18

Description of Job: ***Alpine Water Line Replacement***

Amount	This Period	Total To Date
Amount Earned	\$2,280.00	\$258,178.40
Retainage Being Held	\$114.00	\$12,908.92
Retainage Being Released	\$12,908.92	\$12,908.92
Previous Payments		\$243,103.48
Amount Due	\$15,074.92	\$15,074.92

Contractor's Construction Progress is behind schedule

I hereby certify that I have coordinated with the city inspector who has inspected the work and as a result of such inspection and to the best of my knowledge and belief, the quantities shown in this estimate are correct and have not been shown on previous estimates and the work has been performed in accordance with the Contract Documents.

Recommended by Horrocks Engineers

Date: 11/1/2018



Jason Judd P.E.

Project Engineer

Accepted by: **Stapp Construction**

Date: 11/2/2018



Russell Kidd

Controller

Approved By: **Alpine City**

Date: 11-6-18



Jed Muhlestein

City Engineer

Budget Code _____ Staff Initial _____

PROJECT: **Alpine Water Line Replacement**

PAY PERIOD:

4

Oct-18

ITEM NO.	NATURE OF WORK	CONTRACT ITEMS				QUANTITY		EARNINGS	
		Qty	Units	Unit Price	Bid Amt.	This Month	To Date	This Month	To Date
1	Mobilization	1.00	LS	\$20,300.00	\$20,300.00	0.00	1.00		\$20,300.00
2	Traffic Control	1.00	LS	\$5,000.00	\$5,000.00	0.00	1.00		\$5,000.00
3	8 Inch DIP Water Line	1590.00	LF	\$36.60	\$58,194.00	0.00	1590.00		\$58,194.00
4	Remove Fire Hydrant	4.00	EA	\$720.00	\$2,880.00	0.00	4.00		\$2,880.00
5	New Fire Hydrant	5.00	EA	\$5,100.00	\$25,500.00	0.00	5.00		\$25,500.00
6	6" Concrete Fire Hydrant Pad	5.00	EA	\$416.00	\$2,080.00	0.00	5.00		\$2,080.00
7	Remove and Install Water Service Connection	15.00	EA	\$1,595.00	\$23,925.00	0.00	15.00		\$23,925.00
8	Remove, Move, and Install Water Service Connection	9.00	EA	\$1,920.00	\$17,280.00	0.00	9.00		\$17,280.00
9	Remove Water Valve Cover	3.00	EA	\$235.00	\$705.00	0.00	3.00		\$705.00
10	8" Gate Valve	7.00	EA	\$1,990.00	\$13,930.00	0.00	7.00		\$13,930.00
11	8" Tee	2.00	EA	\$2,775.00	\$5,550.00	0.00	2.00		\$5,550.00
12	8" 22.5° Bend	3.00	EA	\$760.00	\$2,280.00	0.00	3.00		\$2,280.00
13	6" x 8" 90° Bend	2.00	EA	\$965.00	\$1,930.00	0.00	2.00		\$1,930.00
14	Hot Tap	1.00	EA	\$1,590.00	\$1,590.00	0.00	1.00		\$1,590.00
15	Cut and Cap Water Line	5.00	EA	\$340.00	\$1,700.00	0.00	5.00		\$1,700.00
16	2" Stabilization Rock	18.00	CY	\$76.00	\$1,368.00	0.00	0.00		\$0.00
17	Import Backfill	50.00	CY	\$48.00	\$2,400.00	0.00	0.00		\$0.00
18	Untreated Base Course	200.00	CY	\$38.00	\$7,600.00	60.00	200.00	\$2,280.00	\$7,600.00
19	Hot Mix Asphalt (3 Inch)	7950.00	SF	\$2.30	\$18,285.00	0.00	8762.00		\$20,152.60
20	Curb and Gutter	20.00	LF	\$40.00	\$800.00	0.00	0.00		\$0.00
Subtotal					\$213,297.00			\$2,280.00	\$210,596.60

	Stockpile Payment								
	Stockpile Deduction								
	Change Order #1 - Pioneer Water Line	1.00	LS	\$33,598.20	\$33,598.20	0.00	1.00		\$33,598.20
	Change Order #2 - Patterson Lane Asphalt	1.00	LS	\$13,983.60	\$13,983.60	0.00	1.00		\$13,983.60
						0.00	1.00		\$0.00
						0.00	0.00		\$0.00
									\$0.00

Total**\$260,878.80**

TOTAL	\$2,280.00	\$258,178.40
AMOUNT RETAINED	\$114.00	\$12,908.92
RETAINAGE RELEASED	\$12,908.92	\$12,908.92
PREVIOUS RETAINAGE		\$12,794.92
PREVIOUS PAYMENTS		\$243,103.48
AMOUNT DUE	\$15,074.92	\$15,074.92

**PARTIAL PAYMENT ESTIMATE
NO. 1**


Name of Contractor: <i>Craig F. Sorensen Construction</i>		
Name of Owner: <i>Alpine City</i>		
Date of Completion:	Amount of Contract:	Dates of Estimate:
Original: 15-Oct-18	Original: \$296,115.00	From: 1-Sep-18
Revised:	Revised: \$296,115.00	To: 7-Nov-18
Description of Job: <i>Pressurized Irrigation Meters Installation Phase II</i>		
Amount	This Period	Total To Date
Amount Earned	\$259,070.00	\$259,070.00
Retainage Being Held	\$12,953.50	\$12,953.50
Retainage Being Released	\$0.00	\$0.00
Previous Payments		\$0.00
Amount Due	\$246,116.50	\$246,116.50

Contractor's Construction Progress is **ON SCHEDULE**

I hereby certify that I have carefully inspected the work and as a result of my inspection and to the best of my knowledge and belief, the quantities shown in this estimate are correct and have not been shown on previous estimates and the work has been performed in accordance with the Contract Documents.

Recommended by Horrocks Engineers

Date: 11/7/2018


Kasey B. Chesnut, P.E.
Project Manager

Accepted by: **Craig F. Sorensen Construction**

Date: 11/7/18

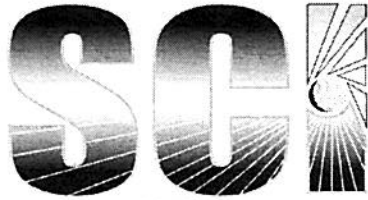

Project Manager

Approved By: **Alpine City**

Date: _____

Troy Stout
Mayor

Budget Code _____ Staff Initial _____



Sorensen Companies, Inc.

REMIT TO:
918 South 2000 West
Syracuse, Utah 84075
Phone: (801) 773-4390, Fax: (801) 773-1575

TO:

ALPINE CITY

20 NORTH MAIN
ALPINE, UT 84004

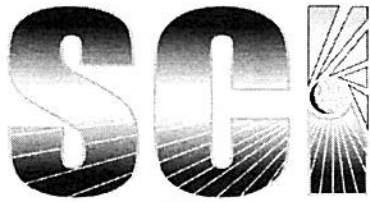
SCI Job No: 8KNWL00008
Project: ALPINE PHASE 2
PRESSURIZED IRRIGATION METERS
INSTALLATION PHASE 2
ALPINE, UT 84004

Invoice:S74692A
Invoice Date: 11/7/2018
Terms:Net 30
ALPINE
Purchase Order:

Application No: 1
For Questions on Quantities
Contact:
Thank you for your business

PARTIAL

1) Original Contract Sum.....	311,615.00
2) Change Orders	0.00
3) Contract Sum	311,615.00
4) Completed to Date	259,070.00
5) Retainage	12,953.50
6) Total Earned less Retainage	246,116.50
7) Previous Billings.....	0.00
8) Current Payment Due	246,116.50
9) Sales Tax.....	0.00
10) Total Due	246,116.50



Sorensen Companies, Inc.

REMIT TO:
918 South 2000 West
Syracuse, Utah 84075
Phone: (801) 773-4390, Fax: (801) 773-1575

Item No.	Description	Unit Price	Scheduled Amounts		Completed Units		Total Completed to Date		Due This Request	Retainage	
			Quantity	Total Cost	Previous	This Period	Qty	Cost			
1-#2	MOBILIZATION	6700.00	1	LS	6,700.00	0	1	1	6,700.00	6,700.00	335.00
2-#2	CAT1 INSTAL 1"RES WAT METER&APPURTETENT ITEMS COMP	350.00	300	EA	105,000.00	0	496	496	173,600.00	173,600.00	8,680.00
3-#2	CAT2 INSTAL 1"RES WAT METER&APPRURTENT ITEMS COMP	375.00	150	EA	56,250.00	0	47	47	17,625.00	17,625.00	881.25
4-#2	CAT3 INSTAL 1" RES WAT METER&APPRURTENT ITEMS COMP	260.00	79	EA	20,540.00	0	0	0	0.00	0.00	0.00
5-#2	CAT4 INSTAL 1" RES WAT METER&APPRURTENT ITEMS COM	355.00	50	EA	17,750.00	0	0	0	0.00	0.00	0.00
6-#2	INSTL NEW 1.5" WAT MET&APP ITEMS, COMP/LANDS/COMER	970.00	1	EA	970.00	0	0	0	0.00	0.00	0.00
7-#2	INSTAL NEW2"WAT,MET&APP/ITEMS,COMP/LAN DS/COMERCIAL	795.00	16	EA	12,720.00	0	0	0	0.00	0.00	0.00
8-#2	RESTROATION OF NEW WAT/MER.APPR.ITEMS/IN LAWN	110.00	443	EA	48,730.00	0	484	484	53,240.00	53,240.00	2,662.00
9-#2	RESTORATION NEW WAT/MET&APP.ITEM,IN/CONCRETE	310.00	125	EA	38,750.00	0	1	1	310.00	310.00	15.50
10-#2	RESTORATION NEW WAT/MET&APP.ITEM,IN/LANDSCAPE	155.00	25	EA	3,875.00	0	27	27	4,185.00	4,185.00	209.25
11-#2	RESTORATION NEW WAT/MET&APP.ITEM,UNIMPROVED	110.00	3	EA	330.00	0	31	31	3,410.00	3,410.00	170.50
					311,615.00				259,070.00	259,070.00	12,953.50

Invoice Total: 259,070.00
Less Retention: 12,953.50
Total Amount Due: 246,116.50

**PARTIAL PAYMENT ESTIMATE
NO. 2**


Name of Contractor: <i>Craig F. Sorensen Construction</i>		
Name of Owner: <i>Alpine City</i>		
Date of Completion:	Amount of Contract:	Dates of Estimate:
Original: 15-Oct-18	Original: \$230,745.00	From: 1-Sep-18
Revised:	Revised: \$230,745.00	To: 30-Sep-18
Description of Job: <i>Pressurized Irrigation Meters Installation Phase I</i>		
Amount	This Period	Total To Date
Amount Earned	\$43,275.00	\$202,890.00
Retainage Being Held	\$2,163.75	\$2,163.75
Retainage Being Released	\$0.00	\$0.00
Previous Payments		\$159,615.00
Amount Due	\$41,111.25	\$41,111.25

Contractor's Construction Progress is **ON SCHEDULE**

I hereby certify that I have carefully inspected the work and as a result of my inspection and to the best of my knowledge and belief, the quantities shown in this estimate are correct and have not been shown on previous estimates and the work has been performed in accordance with the Contract Documents.


Recommended by Horrocks Engineers

Date: 11/7/2018


Kasey B. Chesnut, P.E.
Project Manager

Accepted by: **Craig F. Sorensen Construction**

Date: 11/7/18

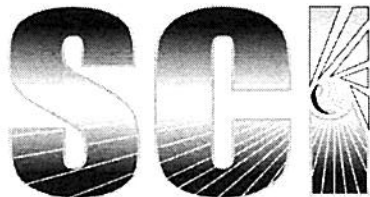

Project Manager

Approved By: **Alpine City**

Date: _____

Troy Stout
Mayor

Budget Code _____ Staff Initial _____



Sorensen Companies, Inc.

REMIT TO:
918 South 2000 West
Syracuse, Utah 84075
Phone: (801) 773-4390, Fax: (801) 773-1575

TO:

ALPINE CITY

20 NORTH MAIN
ALPINE, UT 84004

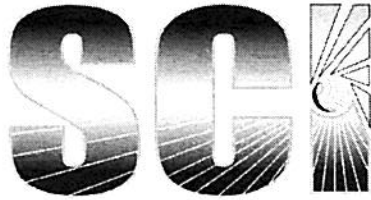
SCI Job No: 8KNWL00007
Project: ALPINE PHASE 1
PRESSURIZED IRRIGATION METERS
INSTALLATION PHASE 1
ALPINE, UT 84004

Invoice: S74691
Invoice Date: 10/3/2018
Terms: Net 30
ALPINE
Purchase Order:

Application No: 2
For Questions on Quantities
Contact: KELLY.NIELSEN@GOSCI.COM
Thank you for your business

PARTIAL

1) Original Contract Sum.....	230,745.00
2) Change Orders	0.00
3) Contract Sum	230,745.00
4) Completed to Date	202,890.00
5) Retainage	10,144.50
6) Total Earned less Retainage	192,745.50
7) Previous Billings.....	151,634.25
8) Current Payment Due	41,111.25
9) Sales Tax.....	0.00
10) Total Due	41,111.25



Screensen Companies, Inc.

REMIT TO:
918 South 2000 West
Syracuse, Utah 84075
Phone: (801) 773-4390, Fax: (801) 773-1575

Item No.	Description	Unit Price	Scheduled Amounts		Completed Units		Total Completed to Date		Due This Request	Retainage	
			Quantity	Total Cost	Previous	This Period	Qty	Cost			
1	MOBILIZATION	5500.00	1	LS	5,500.00	0.5	0.5	1	5,500.00	2,750.00	137.50
2	CAT1 INSTAL 1"RES WAT METER&APPURTETENT ITEMS COMP	350.00	243	EA	85,050.00	244	70	314	109,900.00	24,500.00	1,225.00
3	CAT2 INSTAL 1"RES WAT METER&APPRURTENT ITEMS COMP	375.00	120	EA	45,000.00	87	14	101	37,875.00	5,250.00	262.50
4	CAT3 INSTAL 1" RES WAT METER&APPRURTENT ITEMS COMP	260.00	60	EA	15,600.00	0	0	0	0.00	0.00	0.00
5	CAT4 INSTAL 1" RES WAT METER&APPRURTENT ITEMS COM	355.00	40	EA	14,200.00	0	0	0	0.00	0.00	0.00
6	INSTL NEW 1.5" WAT MET&APP ITEMS, COMP/LANDS/COMER	970.00	3	EA	2,910.00	0	1	1	970.00	970.00	48.50
7	INSTAL NEW2"WAT,MET&APP/ITEMS,COMP/LAN DS/COMERCIAL	795.00	4	EA	3,180.00	0	0	0	0.00	0.00	0.00
8	RESTROATION OF NEW WAT/MER,APPR,ITEMS/IN LAWN	110.00	359	EA	39,490.00	263	58	321	35,310.00	6,380.00	319.00
9	RESTORANTION NEW METE/APP,ITEMS,IN LANDSCAPE	155.00	75	EA	11,625.00	54	15	69	10,695.00	2,325.00	116.25
10	RESTORATION NEW WAT/MET&APP,ITEM,IN/CONCRETE	310.00	25	EA	7,750.00	0	0	0	0.00	0.00	0.00
11	RESTORATION NEW WAT/MET&APP,ITEM,UNIMPROVED	110.00	4	EA	440.00	14	10	24	2,640.00	1,100.00	55.00
					230,745.00				202,890.00	43,275.00	2,163.75

Invoice Total: 43,275.00
Less Retention: 2,163.75
Total Amount Due: 41,111.25

ALPINE CITY
ESCROW BOND RELEASE FORM
Release No. 5

Thru Period Ending: Oct 31, 2018

North Point View Plat C
Location: East View Lane

BOND HOLDER

Description	Quantity	Units		Unit Price		Total Cost	% Completed This Period**	% Completed To Date**	Total This Period
SWPPP									
Stabilized Construction Entrance	1	LS	@	\$	3,200.00	\$ 3,200.00	0.0%	95.0%	\$ -
Silt Fence	750	LF	@	\$	2.50	\$ 1,875.00	0.0%	95.0%	\$ -
Curb Inlet Protection	8	EACH	@	\$	250.00	\$ 2,000.00	0.0%	95.0%	\$ -
Toilet Rental	4	EACH	@	\$	100.00	\$ 400.00	0.0%	0.0%	\$ -
Toilet Pad Install	1	EACH	@	\$	250.00	\$ 250.00	0.0%	0.0%	\$ -
Concrete Washout	1	EACH	@	\$	500.00	\$ 500.00	0.0%	0.0%	\$ -
MOBILIZATION & EARTH WORK									
Mobilization	1	LS	@	\$	10,000.00	\$ 10,000.00	0.0%	95.0%	\$ -
Clear & Grub ROW	18500	SF	@	\$	0.15	\$ 2,775.00	0.0%	95.0%	\$ -
Site Cut/Fill	1200	CY	@	\$	3.50	\$ 4,200.00	0.0%	95.0%	\$ -
Remove existing fence	265	LF	@	\$	5.00	\$ 1,325.00	0.0%	95.0%	\$ -
Remove asphalt in cul-de-sac	5930	SF	@	\$	1.10	\$ 6,523.00	0.0%	95.0%	\$ -
Tree Removal	1	LS	@	\$	6,500.00	\$ 6,500.00	0.0%	95.0%	\$ -
SANITARY SEWER									
Extend 8" PVC Sewer	1	LS	@	\$	1,500.00	\$ 1,500.00	0.0%	95.0%	\$ -
4" Nose-on PVC Sewer Lateral	1	EACH	@	\$	1,300.00	\$ 1,300.00	0.0%	95.0%	\$ -
Import Trench Backfill	100	TON	@	\$	14.00	\$ 1,400.00	0.0%	95.0%	\$ -
STORM DRAIN									
Connect to existing manhole	1	EACH	@	\$	2,500.00	\$ 2,500.00	0.0%	95.0%	\$ -
15" RCP Storm Drain	104	LF	@	\$	45.00	\$ 4,680.00	0.0%	95.0%	\$ -
30" RCP Storm Drain	339	LF	@	\$	80.00	\$ 27,120.00	0.0%	95.0%	\$ -
Combo Box	2	EACH	@	\$	4,650.00	\$ 9,300.00	0.0%	95.0%	\$ -
Curb Inlet Box	2	EACH	@	\$	2,750.00	\$ 5,500.00	0.0%	95.0%	\$ -
Clean Out Box	3	EACH	@	\$	3,500.00	\$ 10,500.00	0.0%	95.0%	\$ -
30" Flared End Section	1	EACH	@	\$	1,850.00	\$ 1,850.00	0.0%	95.0%	\$ -
Storm Drain Pond	1	LS	@	\$	3,450.00	\$ 3,450.00	0.0%	0.0%	\$ -
Import Trench Backfill	300	TON	@	\$	14.00	\$ 4,200.00	0.0%	95.0%	\$ -
CULINARY WATER									
Connect to Existing 8" CW Waterline	2	EACH	@	\$	1,800.00	\$ 3,600.00	0.0%	95.0%	\$ -
8" PVC C900 SD518 Culinary Water Main	285	LF	@	\$	28.00	\$ 7,980.00	0.0%	95.0%	\$ -
8" CW Gate Valve	2	EACH	@	\$	1,850.00	\$ 3,700.00	0.0%	95.0%	\$ -
8" CW Tee	1	EACH	@	\$	950.00	\$ 950.00	0.0%	95.0%	\$ -
8" CW Bend or Fitting	2	EACH	@	\$	850.00	\$ 1,700.00	0.0%	95.0%	\$ -
10" PVC C900 SDR18 Culinary Water Main	55	LF	@	\$	33.00	\$ 1,815.00	0.0%	95.0%	\$ -
10" CW Gate Valve	1	EACH	@	\$	2,685.00	\$ 2,685.00	0.0%	95.0%	\$ -
10" CW Bend or Fitting	1	EACH	@	\$	1,150.00	\$ 1,150.00	0.0%	95.0%	\$ -
Fire Hydrant Assebly w/ Valve	1	EACH	@	\$	5,850.00	\$ 5,850.00	0.0%	95.0%	\$ -
1" Poly Culinary Water Services	2	EACH	@	\$	1,350.00	\$ 2,700.00	0.0%	95.0%	\$ -
CW Temp Blowoff	1	EACH	@	\$	1,250.00	\$ 1,250.00	0.0%	95.0%	\$ -
Import Trench Backfill	325	TON	@	\$	14.00	\$ 4,550.00	0.0%	95.0%	\$ -
PRESSURIZED IRRIGATION SYSTEM									
Connect to existing 4" PI Waterline	2	EACH	@	\$	1,500.00	\$ 3,000.00	0.0%	95.0%	\$ -
4" PVC C900 SDR18 Pressurized Irrigation	315	LF	@	\$	26.00	\$ 8,190.00	0.0%	95.0%	\$ -
4" PI Gate Valve	3	EACH	@	\$	1,650.00	\$ 4,950.00	0.0%	95.0%	\$ -
4" PI Tee	1	EACH	@	\$	750.00	\$ 750.00	0.0%	95.0%	\$ -
4" PI Bend or Fitting	2	EACH	@	\$	650.00	\$ 1,300.00	0.0%	95.0%	\$ -
1" Poly PI Water Services	2	EACH	@	\$	1,550.00	\$ 3,100.00	0.0%	95.0%	\$ -
PI Temp Blowoff	1	EACH	@	\$	1,250.00	\$ 1,250.00	0.0%	95.0%	\$ -
Import Trench Backfill	260	TON	@	\$	14.00	\$ 3,640.00	0.0%	95.0%	\$ -
ROADWAY IMPROVEMENTS									
Remove and Replace Asphalt - Utilities	300	SF	@	\$	8.50	\$ 2,550.00	0.0%	95.0%	\$ -
Rough Grade Native Sub-Grade	18500	SF	@	\$	0.15	\$ 2,775.00	0.0%	95.0%	\$ -
24" Curb and Gutter Prep (6" Road Base)	566	LF	@	\$	3.50	\$ 1,981.00	95.0%	95.0%	\$ 1,881.95
24" Curb and Gutter	566	LF	@	\$	16.00	\$ 9,056.00	95.0%	95.0%	\$ 8,603.20
8" Road Base	9500	SF	@	\$	0.95	\$ 9,025.00	95.0%	95.0%	\$ 8,573.75
3" HMA Paving	9500	SF	@	\$	1.60	\$ 15,200.00	95.0%	95.0%	\$ 14,440.00
Sidewalk Prep (6" Road Base)	2170	SF	@	\$	0.85	\$ 1,844.50	0.0%	0.0%	\$ -
Concrete Sidewalk (4' Wide x 4" Thick)	2170	SF	@	\$	3.75	\$ 8,137.50	0.0%	0.0%	\$ -
ADA Ramp	2	EACH	@	\$	1,250.00	\$ 2,500.00	0.0%	0.0%	\$ -
Concrete Valve Collars	7	EACH	@	\$	400.00	\$ 2,800.00	95.0%	95.0%	\$ 2,660.00
Concrete Manhole Collars	5	EACH	@	\$	500.00	\$ 2,500.00	95.0%	95.0%	\$ 2,375.00
Adjust Existing Manhole to Grade and Concrete Collar	3	EACH	@	\$	850.00	\$ 2,550.00	95.0%	95.0%	\$ 2,422.50
BASE BID TOTAL						\$ 237,877.00	Previously Released: \$		168,798.85
10% Warranty Amount						\$ 23,787.70			
TOTAL BOND AMOUNT						\$ 261,664.70	This Release: \$		40,956.40
Total Released to Date						\$ 209,755.25			
TOTAL BOND REMAINING						\$ 51,909.45			

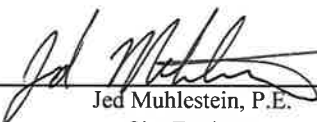
At the discretion of the city, up to 95% of the Base Bid Total may be released as partial payments and 100% of the Base Bid Total will be released at final inspection. The 10% Warranty Amount will be held for the one year warranty period.

Marcus Watkins
Developer

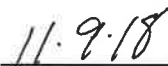
Date

Troy Stout
Mayor

Date



Jed Muhlestein, P.E.
City Engineer



Date

City Council
(by Charmayne Warnock - City Recorder)

Date

HB 35:
*Municipal
Alternate
Voting Methods
Pilot Program*

- Creates a pilot program (beginning 1/1/2019) to permit a municipality to conduct nonpartisan races using instant runoff voting (ranked choice voting)
- Establishes opt in process
- Establishes requirements and procedures, including counting of votes, recounts, resolution of ties, and canvassing
- Provides a sunset date (1/1/2026)

About HB 35

Bi-partisan bill

- Bill Sponsor: Representative Marc Roberts
- Floor Sponsor: Senator Howard Stephenson
- Co-Sponsors: P. Arent, R. Chavez-Houck, J. Fawson, B. Greene, B. King, A. Robertson, M. Winder

Overwhelming support in both chambers

- House: 64-2-9 passed 2/20/2018
- Senate: 22-0-7 passed 3/8/2018
- House concurs w/Senate amendment 67-3-5 on 3/8/2018

Benefits

- **Greater voter engagement** – issues become the focus; voters become more informed; voters only have to go to the polls once
- **More civil campaigns** – Candidates seek to be first choice, but if not then second choice
- **Cost savings** – Save taxpayers' dollars by eliminating cost of an entire election; candidates only campaign for one election






How It Works: Ballot Example

- Single-winner and Multi-winner contests are presented in the same ballot format.
- Voters rank their choices in order of preference.
- Visual and written instructions voters better understand the ballot.

Instructions to Voters: Ranked Choice Voting

- Rank candidates in order of your choice. You may rank as many or as few candidates as you choose.
- Your 2nd, 3rd, and other choices will not count against your 1st choice. They will only be considered if your 1st choice does not win.
- Fill in the oval: In the 1st column for your first (1st) choice.
In the 2nd column for your second (2nd) choice.
In the 3rd column for your third (3rd) choice, and so on.
- To vote for a Write-in candidate, fill in the oval of the column of your choice and write in the name below "Write-in."
- To have your vote count, do not erase or cross out your choice. If you make a mistake, ask for a new ballot.

Fill in the oval completely. No more than 1 oval in a column. No more than 1 oval for a candidate.


U.S. Senator Statewide							Rep. to Congress District 1						
	1st Choice	2nd Choice	3rd Choice	4th Choice	5th Choice	6th Choice		1st Choice	2nd Choice	3rd Choice	4th Choice	5th Choice	6th Choice
Rank up to 6 candidates. Mark no more than 1 oval in each column.							Rank up to 6 candidates. Mark no more than 1 oval in each column.						
Crane, Ichabod City Party	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Duck, Daisy City Party	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lantern, Jack O. City Party	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Duck, Donald City Party	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Patch, Pumpkin City Party	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Goof, Goofy City Party	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stein, Frank N. City Party	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mouse, Mickey City Party	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ween, Hal O. City Party	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mouse, Minnie City Party	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Write-in _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Write-in _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How It Works

- Candidates are ranked according to the voter's preference.
- If a candidate receives more than 50% of the first choice votes, the candidate is elected.
- If not, lowest vote getter is eliminated and their voters' ballots are counted for their next choice.
- Same process for At-Large seats.

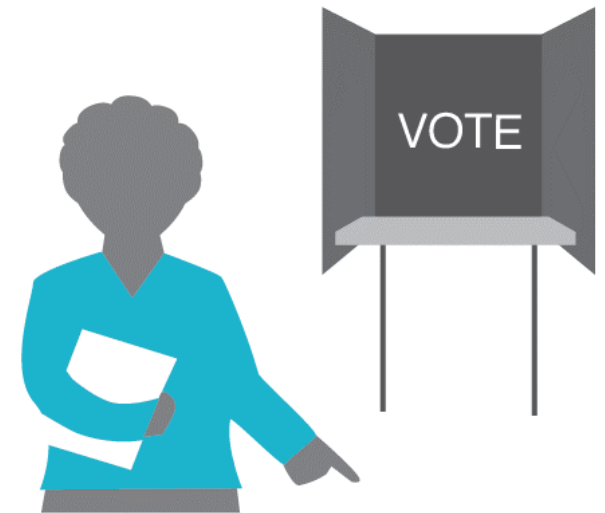
Please fill in no more than one oval per column and no more than one oval per candidate.

For Mayor 4 Year Term (Rank candidates in order of your choice)	1st Choice	2nd Choice	3rd Choice	4th Choice	5th Choice
Washington, George	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Jefferson, Thomas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hamilton, Alexander	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adams, Abigail	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>



Implementing RCV

- RCV ready equipment
 - Recommended system, ES&S, used in Maine (June 2018)
 - Other systems have RCV capability
 - Legacy equipment with cast vote records can be tabulated with third-party software
 - May require additional module (small, one-time cost)
- Complements vote-by-mail
 - RCV yields issue oriented campaigns; voters have more time to review
 - Proven through use for military and overseas citizens



Implementing RCV

- Eliminates Primary Elections
 - Significant cost savings
 - Some allocation for voter education
- Voter education campaigns can be scaled to meet the municipality
 - Water bill inserts
 - Civic club presentations
 - Social media
 - Partner with other organizations
 - League of Women Voters

MINNEAPOLIS
Your City. Your Vote.
vote.minneapolismn.gov

WHAT'S ON THE BALLOT?

- **Mayor**
Approves local laws and appoints new members to city agencies and boards.
- **City Council member**
Represents city wards and neighborhoods, and passes local laws.
- **Park and Recreation Board members**
In charge of city parks and recreation programs.
- **Board of Estimate and Taxation members**
Set property tax rates residents pay for city services.

2017 KEY DATES

- Sep 22** **Vote early**
Vote by mail or in-person
September 22 to November 6.
- Oct 17** **Register to vote**
Register by October 17 to save time on Election Day.
- Nov 7** **Election Day**
Voting open 7 a.m. to 8 p.m.

HOW TO VOTE

- In this election you can rank up to 3 candidates in order of your choice.
- You can choose just 1 candidate if you don't have a 2nd or 3rd choice.
- Your 2nd and 3rd choices do not count against your 1st choice. They only count if your 1st choice does not win.

1st choice	2nd choice	3rd choice
<input type="radio"/> Lucy	<input type="radio"/> Lucy	<input type="radio"/> Lucy
<input type="radio"/> Zac	<input type="radio"/> Zac	<input type="radio"/> Zac
<input type="radio"/> Omar	<input type="radio"/> Omar	<input type="radio"/> Omar
<input type="radio"/> Asha	<input type="radio"/> Asha	<input type="radio"/> Asha

HOW IS MY BALLOT COUNTED?

1 Election officials count 1st choice votes. If a candidate gets over 50%, they win. If not, the ranked-choice counting begins in step 2.

Step 1
No candidate has over 50% of the 1st choice votes. Counting continues in step 2.

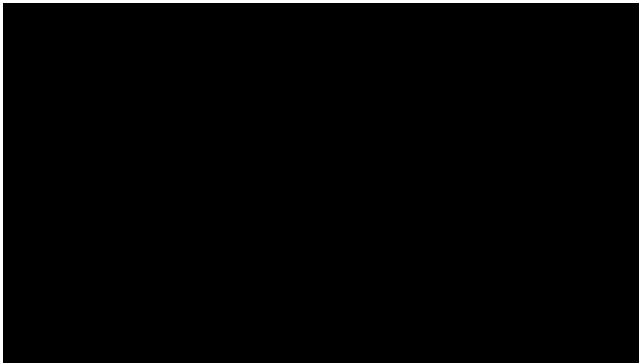
2 The candidate with the fewest votes is eliminated. Those votes transfer to each voter's next choice candidate. If a candidate now has over 50% of the vote, they win.

Step 2
Zac's votes transfer to his voters' next choice candidates. Lucy is now the winner.

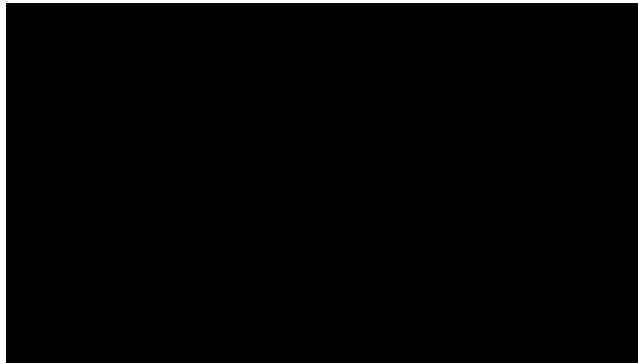
3 If necessary, the process in step 2 repeats until a candidate wins. In each round, the candidate with the fewest votes is eliminated. Only then are votes transferred to each voter's next choice of candidate (if any).

Implementing RCV

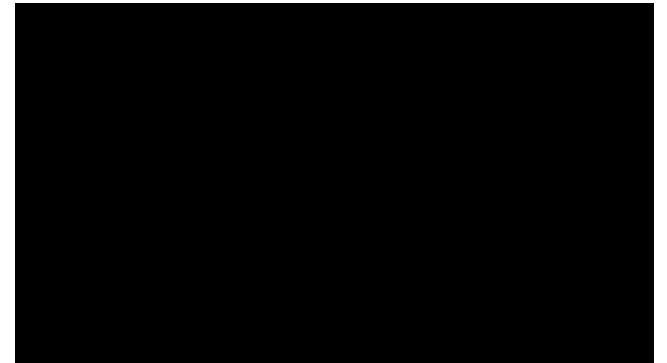
Sample voter education videos



Maine



Minneapolis



Santa Fe

Next Steps

- Provide notice to Lt. Governor's Office
 - Before January 1 of odd-numbered year
 - State intent to participate and election year
 - Signed by election officer of municipality stating the municipality has the resources and capability necessary



Contact Us

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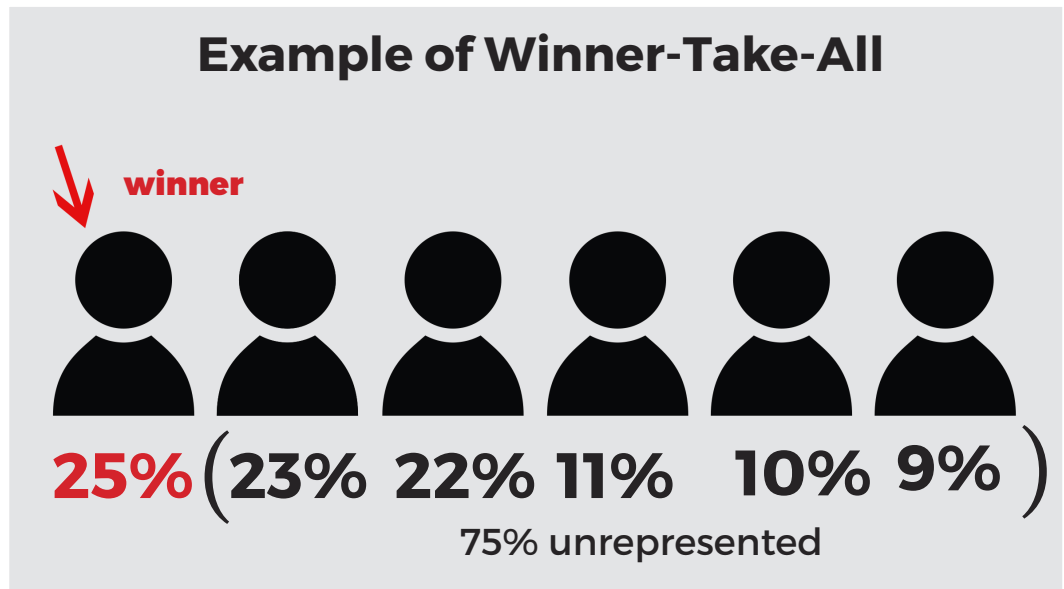
stanlockhartutah@gmail.com

Improving Local Elections with Ranked Choice Voting

American democracy is based on the principle of majority rule. However, under our “winner-take-all” system, electoral races with more than two candidates often elect politicians with less than a majority. Why? When voters can only choose one candidate, it “splits the vote” between candidates with similar platforms. This also occurs when there are three or more strong candidates, and voters are put at a disadvantage because if they vote for that candidate that they truly prefer, they risk helping elect the candidate they like the least.

Ranked Choice Voting

In an RCV election, voters can rank as many or as few candidates as they want in order of choice. All 1st choices are counted, and if no candidate has received a majority in the first round, the candidate with the fewest votes is eliminated. If a voter's 1st choice candidate is eliminated, their vote instantly goes to their next choice. The process continues until there is a candidate with a majority of the votes cast, who is declared the winner.



The winner received only 25% of the vote, leaving the remaining 75% unrepresented.

- **Preserves Majority Rule:** When RCV is used in single-winner districts, only candidates who receive at least 50%+1 of voter support will win. Depending upon how it's adopted, this can even be achieved while eliminating runoffs and/or primaries, saving localities significant money.
- **More Choices, More Voices:** When voters have the power to rank their ballot, candidates can run without worrying about splitting the vote and being labeled a “spoiler”. If one's preferred candidate is eliminated, their second choice is still counted, and so on until a winner is selected, reducing “wasted” votes.
- **Civil and Issue-focused Campaigns:** RCV changes incentives for candidates. Instead of distancing themselves from their opponents, alienating their opponents' supporters, candidates can try to secure 2nd and 3rd choice votes by finding common ground with supporters of their opponents.

Ranked Choice Voting: It's Common Sense

Ranked Choice Voting (RCV) is a nonpartisan electoral reform that gives voters the freedom to rank candidates in order of choice. In single-winner races, all first-choice votes are counted, and if a candidate has a majority, they win. However, if no candidate has a majority, the candidate with the least number of votes is eliminated and those voters have their ballot count instantly for their next choice. This process continues until a candidate receives a majority of the votes and is declared the winner. RCV ensures that American elections are **fair**, **fiscally responsible**, and **accountable to the people**.

Fair

Our current “winner-take-all” election system allows candidates to be elected into office without receiving a majority of the vote. In 2013, Republican Ken Cuccinelli lost the Virginia race for governor to Democrat Terry McAuliffe, 45.2% to 47.8%. Libertarian candidate Robert Sarvis received 6.5% of the vote. With RCV, Sarvis would have been eliminated and his voters’ 2nd choices would have been used instead. Thus, RCV protects the integrity of American elections by requiring a majority of the vote to win.

Fiscally Responsible

Runoff elections are costly and inefficient because they split one election into two. This often results in low voter turnout and a waste of taxpayer money. RCV consolidates voter preference onto one ballot, eliminating the need for a separate runoff. This reform saves voters’ time, money, and energy.

Accountable

In our current system, politicians can ignore large swaths of the electorate because they can win without a majority. In contrast, RCV requires politicians to have broad appeal to reach voters that are not in their immediate base. RCV elections are often more civil and candidates run more issue-based campaigns to receive voters’ second-choice votes. In other words, politicians must now be accountable to the majority of the population in order to maintain office.



“Instant runoff voting will lead to good government because voters will elect leaders who have the support of a majority. Elected leaders will be more likely to listen to all and cities will be able to enjoy big tax savings and keep majority rule.”
- Sen. John McCain

Support from Elected Republicans

In 2017 alone, 18 Republican state legislators across nine states sponsored legislation that would have implemented RCV. Currently, Alabama, Louisiana, South Carolina, Mississippi, and Arkansas use RCV for military and overseas voters. In 2016, 15 former Republican Maine state legislators and the former Maine Republican Party Chair, Mark Ellis, all endorsed the Maine RCV initiative which won statewide.

ALPINE CITY CORPORATION
COMBINED CASH INVESTMENT
OCTOBER 31, 2018

COMBINED CASH ACCOUNTS

01-1111	CASH IN BANK, AMERICAN FORK	(	91,705.25)
01-1112	XPRESS BILL PAY		1,896.55
01-1131	PETTY CASH		1,000.00
01-1154	SAVINGS PTIF #158		15,267,059.67
	TOTAL COMBINED CASH		15,178,250.97
01-1190	CASH - ALLOCATION TO OTHER FUN	(	15,178,250.97)
	TOTAL GENERAL FUND CASH		.00

CASH ALLOCATION RECONCILIATION

10	ALLOCATION TO GENERAL FUND		1,424,510.61
11	ALLOCATION TO CLASS C ROADS		884,193.91
15	ALLOCATION TO RECREATION IMPACT FEES		710,102.99
16	ALLOCATION TO STREET IMPACT FEES		261,051.26
45	ALLOCATION TO CAPITAL IMPROVEMENTS FUND		3,475,177.14
51	ALLOCATION TO WATER FUND		2,451,655.65
52	ALLOCATION TO SEWER FUND		2,192,594.04
55	ALLOCATION TO PRESSURIZED IRRIGATION FUND		1,708,574.51
56	ALLOCATION TO STORM DRAIN FUND		603,914.02
70	ALLOCATION TO TRUST AND AGENCY FUND		175,841.18
71	ALLOCATION TO CEMETERY PERPETUAL CARE FUND		611,429.49
81	ALLOCATION TO WATER IMPACT FEES		314,937.43
82	ALLOCATION TO SEWER IMPACT FEES		64,566.88
85	ALLOCATION TO PI IMPACT FEES		131,140.33
86	ALLOCATION TO STORM DRAIN IMPACT FEES		168,561.53
	TOTAL ALLOCATIONS TO OTHER FUNDS		15,178,250.97
	ALLOCATION FROM COMBINED CASH FUND - 01-1190	(	15,178,250.97)
	ZERO PROOF IF ALLOCATIONS BALANCE		.00

ALPINE CITY CORPORATION

BALANCE SHEET

OCTOBER 31, 2018

GENERAL FUND

ASSETS

10-1190	CASH - ALLOCATION TO OTHER FUN	1,424,510.61	
10-1309	DEFERRED PROPERTY TAXES REC	1,259,956.68	
10-1311	ACCOUNTS RECEIVABLE	55,240.09	
10-1341	ACCRUED TAXES & FEE RECEIVABLE	17,546.11	
	TOTAL ASSETS		2,757,253.49

LIABILITIES AND EQUITYLIABILITIES

10-2131	ACCOUNTS PAYABLE	88.98	
10-2211	WAGES PAYABLE	8,584.30	
10-2221	FICA PAYABLE	(6,226.60)	
10-2222	FEDERAL WITHHOLDING PAYABLE	(1,960.18)	
10-2223	STATE WITHHOLDING PAYABLE	(1,698.12)	
10-2225	ULGT PAYABLE	(6,081.91)	
10-2227	RETIREMENT PAYABLE EMPLOYEES	(7,604.19)	
10-2229	WORKERS COMP PAYABLE	4,801.29	
10-2400	UNEARNED REVENUE	1,259,956.00	
10-2500	PENDING LAWSUIT	1,456,000.00	
	TOTAL LIABILITIES		2,705,859.57

FUND EQUITY

	UNAPPROPRIATED FUND BALANCE:		
10-2980	BALANCE BEGINNING OF YEAR	566,946.65	
	REVENUE OVER EXPENDITURES - YTD	(515,552.73)	
	BALANCE - CURRENT DATE	51,393.92	
	TOTAL FUND EQUITY		51,393.92
	TOTAL LIABILITIES AND EQUITY		2,757,253.49

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

GENERAL FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
<u>TAXES</u>					
10-31-10 CURRENT YEAR GENERAL PROPERTY	1,500.47	11,512.36	1,300,000.00	1,288,487.64	.9
10-31-20 REDEMPTION TAXES	842.51	3,280.45	140,000.00	136,719.55	2.3
10-31-30 GENERAL SALES AND USE TAXES	112,961.43	233,972.68	1,200,000.00	966,027.32	19.5
10-31-31 MOTOR VEHICLE TAXES	8,413.46	29,494.76	106,000.00	76,505.24	27.8
10-31-40 FRANCHISE FEES	50,082.67	167,121.90	650,000.00	482,878.10	25.7
10-31-90 PENALTIES & INT. ON DELINQUENT	26.12	100.11	6,000.00	5,899.89	1.7
TOTAL TAXES	173,826.66	445,482.26	3,402,000.00	2,956,517.74	13.1
<u>LICENSES AND PERMITS</u>					
10-32-10 BUSINESS LICENSES AND PERMITS	275.00	1,490.00	22,000.00	20,510.00	6.8
10-32-20 PLAN CHECK FEES	12,688.95	67,591.15	160,000.00	92,408.85	42.2
10-32-21 BUILDING PERMITS	20,864.05	119,692.23	300,000.00	180,307.77	39.9
10-32-22 BUILDING PERMIT ASSESSMENT	204.26	1,155.85	2,500.00	1,344.15	46.2
TOTAL LICENSES AND PERMITS	34,032.26	189,929.23	484,500.00	294,570.77	39.2
<u>INTERGOVERNMENTAL REVENUE</u>					
10-33-42 MUNICIPAL RECREATION GRANT	.00	.00	5,400.00	5,400.00	.0
TOTAL INTERGOVERNMENTAL REVENUE	.00	.00	5,400.00	5,400.00	.0
<u>CHARGES FOR SERVICES</u>					
10-34-13 ZONING AND SUBDIVISION FEES	250.00	2,970.00	15,000.00	12,030.00	19.8
10-34-14 ANNEXATIONS APPLICATIONS	.00	.00	500.00	500.00	.0
10-34-15 SALE OF MAPS AND PUBLICATIONS	.00	60.00	50.00	(10.00)	120.0
10-34-22 PUBLIC SAFETY DISTRICT RENTAL	.00	38,516.00	38,516.00	.00	100.0
10-34-40 WASTE COLLECTION SALES	49,135.55	196,363.44	505,000.00	308,636.56	38.9
10-34-69 YOUTH COUNCIL	.00	49.25	.00	(49.25)	.0
10-34-81 SALE OF CEMETERY LOTS	985.00	2,216.25	7,500.00	5,283.75	29.6
10-34-83 BURIAL FEES	5,250.00	18,750.00	43,500.00	24,750.00	43.1
TOTAL CHARGES FOR SERVICES	55,620.55	258,924.94	610,066.00	351,141.06	42.4
<u>FINES AND FORFEITURES</u>					
10-35-10 TRAFFIC FINES	.00	18,686.80	45,000.00	26,313.20	41.5
10-35-15 OTHER FINES	3,691.52	10,684.33	10,000.00	(684.33)	106.8
10-35-16 TRAFFIC SCHOOL	.00	.00	500.00	500.00	.0
TOTAL FINES AND FORFEITURES	3,691.52	29,371.13	55,500.00	26,128.87	52.9

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

GENERAL FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
<u>RENTS AND OTHER REVENUE</u>					
10-36-20 RENTS AND CONCESSIONS	4,195.00	10,530.00	58,000.00	47,470.00	18.2
TOTAL RENTS AND OTHER REVENUE	4,195.00	10,530.00	58,000.00	47,470.00	18.2
<u>INTEREST AND MISC REVENUE</u>					
10-38-10 INTEREST EARNINGS	33,686.02	134,475.65	40,000.00	(94,475.65)	336.2
10-38-17 ALPINE DAYS REVENUE	40.00	70,980.11	75,000.00	4,019.89	94.6
10-38-18 RODEO REVENUE	.00	22,549.00	20,000.00	(2,549.00)	112.8
10-38-50 BICENTENNIAL BOOKS	.00	40.00	500.00	460.00	8.0
10-38-90 SUNDRY REVENUES	899.60	12,765.01	25,000.00	12,234.99	51.1
TOTAL INTEREST AND MISC REVENUE	34,625.62	240,809.77	160,500.00	(80,309.77)	150.0
<u>TRANSFERS AND CONTRIBUTIONS</u>					
10-39-10 FUND BALANCE APPROPRIATION	.00	.00	386,539.00	386,539.00	.0
10-39-20 CONTRIBUTION FOR PARAMEDIC	2,635.39	10,508.37	30,000.00	19,491.63	35.0
TOTAL TRANSFERS AND CONTRIBUTIONS	2,635.39	10,508.37	416,539.00	406,030.63	2.5
TOTAL FUND REVENUE	308,627.00	1,185,555.70	5,192,505.00	4,006,949.30	22.8

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

GENERAL FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>ADMINISTRATION</u>					
10-41-11 SALARIES & WAGES	14,616.15	57,909.15	221,750.00	163,840.85	26.1
10-41-13 EMPLOYEE BENEFITS	6,543.89	26,147.34	94,350.00	68,202.66	27.7
10-41-14 OVERTIME WAGES	.00	.00	1,500.00	1,500.00	.0
10-41-21 BOOKS, SUBSCRIPTIONS & MEMBERS	522.61	2,208.81	18,000.00	15,791.19	12.3
10-41-22 PUBLIC NOTICES	84.85	291.01	4,500.00	4,208.99	6.5
10-41-23 TRAVEL	63.22	130.80	2,500.00	2,369.20	5.2
10-41-24 OFFICE SUPPLIES & POSTAGE	1,288.77	3,903.95	20,000.00	16,096.05	19.5
10-41-25 EQUIPMENT - SUPPLIES & MAINTEN	43.80	175.20	1,500.00	1,324.80	11.7
10-41-28 TELEPHONE	487.93	1,509.64	4,500.00	2,990.36	33.6
10-41-30 PROFESSIONAL SERVICES	5.00	957.50	30,000.00	29,042.50	3.2
10-41-33 EDUCATION	.00	.00	150.00	150.00	.0
10-41-46 COUNCIL DISCRETIONARY FUND	1,946.78	3,330.95	15,000.00	11,669.05	22.2
10-41-47 MAYOR DISCRETIONARY FUND	79.00	357.00	8,000.00	7,643.00	4.5
10-41-51 INSURANCE	(117.08)	8,723.55	10,200.00	1,476.45	85.5
10-41-63 OTHER SERVICES	.00	.00	500.00	500.00	.0
10-41-64 OTHER EXPENSES	37.00	2,740.99	4,000.00	1,259.01	68.5
TOTAL ADMINISTRATION	25,601.92	108,385.89	436,450.00	328,064.11	24.8
<u>COURT</u>					
10-42-24 OFFICE EXPENSE & POSTAGE	4,657.12	17,502.67	25,000.00	7,497.33	70.0
10-42-31 PROFESSIONAL SERVICES	3,455.89	10,756.58	40,000.00	29,243.42	26.9
10-42-40 WITNESS FEES	.00	.00	200.00	200.00	.0
10-42-46 VICTIM REPARATION ASSESSMENT	1,503.87	6,716.10	20,000.00	13,283.90	33.6
TOTAL COURT	9,616.88	34,975.35	85,200.00	50,224.65	41.1
<u>TREASURER</u>					
10-43-11 SALARIES & WAGES	988.80	3,985.20	12,900.00	8,914.80	30.9
10-43-13 EMPLOYEE BENEFITS	811.20	3,243.17	9,800.00	6,556.83	33.1
10-43-21 BOOKS, SUBSCRIPTIONS & MEMBERS	99.00	297.00	500.00	203.00	59.4
10-43-23 TRAVEL	39.79	39.79	500.00	460.21	8.0
10-43-24 OFFICE SUPPLIES & POSTAGE	.00	.00	750.00	750.00	.0
10-43-31 PROFESSIONAL & TECHNICAL	200.00	1,450.00	3,600.00	2,150.00	40.3
10-43-33 EDUCATION	.00	.00	500.00	500.00	.0
10-43-34 ACCOUNTING SERVICES/AUDIT	6,100.00	9,400.00	11,000.00	1,600.00	85.5
TOTAL TREASURER	8,238.79	18,415.16	39,550.00	21,134.84	46.6
<u>ELECTIONS</u>					
10-50-24 OFFICE EXPENSE, SUPPLIES & POS	.00	.00	500.00	500.00	.0
TOTAL ELECTIONS	.00	.00	500.00	500.00	.0

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

GENERAL FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>GOVERNMENT BUILDINGS</u>					
10-52-26 BUILDING SUPPLIES	193.75	487.75	4,000.00	3,512.25	12.2
10-52-27 UTILITIES	767.81	2,983.08	22,000.00	19,016.92	13.6
10-52-51 INSURANCE	(117.08)	8,723.55	2,400.00	(6,323.55)	363.5
10-52-63 OTHER SERVICES	888.00	3,070.50	20,000.00	16,929.50	15.4
10-52-72 CAPITAL OUTLAY BUILDINGS	.00	.00	45,000.00	45,000.00	.0
TOTAL GOVERNMENT BUILDINGS	1,732.48	15,264.88	93,400.00	78,135.12	16.3
<u>EMERGENCY SERVICES</u>					
10-57-61 POLICE-PROFESSIONAL SERVICE	92,131.90	460,659.50	1,105,583.00	644,923.50	41.7
10-57-63 FIRE-PROFESSIONAL SERVICE	66,762.69	333,813.45	807,286.00	473,472.55	41.4
10-57-72 ADMINISTRATION	6,119.65	30,598.25	73,436.00	42,837.75	41.7
TOTAL EMERGENCY SERVICES	165,014.24	825,071.20	1,986,305.00	1,161,233.80	41.5
<u>BUILDING INSPECTION</u>					
10-58-11 SALARIES & WAGES	2,194.75	7,636.25	36,700.00	29,063.75	20.8
10-58-13 EMPLOYEE BENEFITS	1,383.65	5,460.59	17,600.00	12,139.41	31.0
10-58-14 OVERTIME WAGES	.00	.00	2,000.00	2,000.00	.0
10-58-21 BOOKS, SUBSCRIPTIONS & MEMBERS	.00	.00	500.00	500.00	.0
10-58-24 OFFICE SUPPLIES & POSTAGE	.00	67.50	700.00	632.50	9.6
10-58-28 TELEPHONE	118.62	414.46	2,000.00	1,585.54	20.7
10-58-29 CONTRACT/BUILDING INSPECTOR	7,506.00	22,913.50	90,000.00	67,086.50	25.5
10-58-51 INSURANCE & SURETY BONDS	(117.15)	8,723.57	10,000.00	1,276.43	87.2
10-58-65 BUILDING PERMIT SURCHARGE	840.04	840.04	2,500.00	1,659.96	33.6
TOTAL BUILDING INSPECTION	11,925.91	46,055.91	162,000.00	115,944.09	28.4
<u>PLANNING & ZONING</u>					
10-59-11 SALARIES & WAGES	9,194.51	31,620.85	98,250.00	66,629.15	32.2
10-59-13 EMPLOYEE BENEFITS	4,568.81	17,987.63	59,250.00	41,262.37	30.4
10-59-14 OVERTIME WAGES	180.73	897.91	1,000.00	102.09	89.8
10-59-21 BOOKS, SUBSCRIPTIONS & MEMBERS	.00	.00	2,200.00	2,200.00	.0
10-59-23 TRAVEL	61.91	160.55	1,500.00	1,339.45	10.7
10-59-24 OFFICE SUPPLIES & POSTAGE	101.52	189.12	3,000.00	2,810.88	6.3
10-59-30 PROFESSIONAL SERVICES	5,105.50	5,993.50	46,000.00	40,006.50	13.0
10-59-31 LEGAL SERVICES FOR SUBDIVIS	.00	.00	2,000.00	2,000.00	.0
10-59-34 EDUCATION	.00	252.00	750.00	498.00	33.6
TOTAL PLANNING & ZONING	19,212.98	57,101.56	213,950.00	156,848.44	26.7

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

GENERAL FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>STREETS</u>					
10-60-11 SALARIES & WAGES	7,479.36	30,053.72	71,250.00	41,196.28	42.2
10-60-13 EMPLOYEE BENEFITS	4,920.24	19,411.70	60,000.00	40,588.30	32.4
10-60-14 OVERTIME WAGES	776.86	3,269.86	11,000.00	7,730.14	29.7
10-60-23 TRAVEL	.00	296.00	1,000.00	704.00	29.6
10-60-24 OFFICE SUPPLIES & POSTAGE	.00	.00	750.00	750.00	.0
10-60-25 EQUIPMENT-SUPPLIES & MAINTENAN	905.06	3,776.05	32,000.00	28,223.95	11.8
10-60-26 STREET SUPPLIES AND MAINTENANC	2,141.29	18,921.28	70,000.00	51,078.72	27.0
10-60-27 UTILITIES	26.38	147.63	500.00	352.37	29.5
10-60-28 TELEPHONE	105.44	305.88	900.00	594.12	34.0
10-60-29 POWER - STREET LIGHTS	4,134.73	16,513.70	50,000.00	33,486.30	33.0
10-60-51 INSURANCE (	117.08)	8,723.55	11,950.00	3,226.45	73.0
10-60-63 OTHER SERVICES	.00	.00	12,000.00	12,000.00	.0
10-60-64 OTHER EXPENSES	7,883.98	8,119.95	3,500.00	(4,619.95)	232.0
10-60-73 CAPITAL OUTLAY-OTHER THAN BUIL	.00	.00	200,000.00	200,000.00	.0
10-60-74 CAPITAL OUTLAY - EQUIPMENT	.00	52,649.33	74,000.00	21,350.67	71.2
TOTAL STREETS	28,256.26	162,188.65	598,850.00	436,661.35	27.1
<u>PARKS & RECREATION</u>					
10-70-11 SALARIES & WAGES	2,965.90	25,712.10	44,650.00	18,937.90	57.6
10-70-12 WAGES TEMPORARY EMPLOYEES	2,240.50	2,240.50	27,500.00	25,259.50	8.2
10-70-13 EMPLOYEE BENEFITS	2,400.35	10,523.48	28,900.00	18,376.52	36.4
10-70-14 OVERTIME WAGES	.00	1,062.54	1,200.00	137.46	88.6
10-70-23 TRAVEL	.00	.00	1,000.00	1,000.00	.0
10-70-24 OFFICE SUPPLIES & POSTAGE	42.64	840.68	2,200.00	1,359.32	38.2
10-70-25 EQUIPMENT-SUPPLIES & MAINTENAN	735.74	4,496.64	25,000.00	20,503.36	18.0
10-70-26 BUILDING AND GROUNDS SUPPLIES	5,015.69	13,509.09	26,500.00	12,990.91	51.0
10-70-27 UTILITIES	697.84	3,724.64	3,500.00	(224.64)	106.4
10-70-28 TELEPHONE	97.94	275.88	850.00	574.12	32.5
10-70-51 INSURANCE & SURETY BONDS (	117.08)	8,723.55	10,500.00	1,776.45	83.1
10-70-59 DEER POPULATION CONTROL	.00	.00	40,000.00	40,000.00	.0
10-70-60 RODEO	1,522.06	29,446.67	25,000.00	(4,446.67)	117.8
10-70-64 OTHER EXPENSES	5,064.24	7,145.68	16,500.00	9,354.32	43.3
10-70-65 ALPINE DAYS	7,669.49	111,238.79	134,450.00	23,211.21	82.7
10-70-67 MOYLE PARK	377.85	2,036.39	9,000.00	6,963.61	22.6
10-70-68 LIBRARY	1,320.00	5,272.00	11,000.00	5,728.00	47.9
10-70-69 YOUTH COUNCIL	218.63	1,589.85	5,500.00	3,910.15	28.9
10-70-70 BOOK MOBILE	.00	.00	13,200.00	13,200.00	.0
10-70-71 TRAILS	.00	.00	5,000.00	5,000.00	.0
TOTAL PARKS & RECREATION	30,251.79	227,838.48	431,450.00	203,611.52	52.8

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

GENERAL FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>CEMETERY</u>					
10-77-11 SALARIES & WAGES	3,538.40	26,284.60	44,650.00	18,365.40	58.9
10-77-12 WAGES TEMPORARY EMPLOYEE	1,668.00	1,668.00	27,500.00	25,832.00	6.1
10-77-13 EMPLOYEE BENEFITS	2,400.31	10,523.24	28,900.00	18,376.76	36.4
10-77-14 OVERTIME WAGES	.00	1,062.49	2,000.00	937.51	53.1
10-77-23 TRAVEL	.00	.00	500.00	500.00	.0
10-77-24 OFFICE SUPPLIES & POSTAGE	.00	.00	500.00	500.00	.0
10-77-25 EQUIPMENT-SUPPLIES & MAINTENAN	743.07	2,345.30	15,000.00	12,654.70	15.6
10-77-26 BUILDING AND GROUNDS	823.21	2,532.60	15,000.00	12,467.40	16.9
10-77-28 TELEPHONE	40.00	160.00	850.00	690.00	18.8
10-77-51 INSURANCE & SURETY BONDS	(117.08)	8,723.55	10,000.00	1,276.45	87.2
10-77-63 OTHER SERVICES	16.16	92.71	12,000.00	11,907.29	.8
TOTAL CEMETERY	9,112.07	53,392.49	156,900.00	103,507.51	34.0
<u>GARBAGE</u>					
10-82-11 SALARIES & WAGES	4,304.63	17,222.35	58,000.00	40,777.65	29.7
10-82-13 EMPLOYEE BENEFITS	3,237.93	13,159.90	40,250.00	27,090.10	32.7
10-82-14 OVERTIME WAGES	603.26	2,547.58	.00	(2,547.58)	.0
10-82-24 OFFICE SUPPLIES & POSTAGE	346.48	1,039.21	3,600.00	2,560.79	28.9
10-82-28 TELEPHONE	27.50	110.00	.00	(110.00)	.0
10-82-31 PROFESSIONAL & TECHNICAL	200.00	1,450.00	3,600.00	2,150.00	40.3
10-82-34 TECHNOLOGY UPDATE	333.78	1,121.37	5,000.00	3,878.63	22.4
10-82-61 TIPPING FEES	.00	22,755.25	110,000.00	87,244.75	20.7
10-82-62 WASTE PICKUP CONTRACT	36,213.43	88,481.91	250,000.00	161,518.09	35.4
10-82-64 OTHER EXPENSES	232.55	888.20	1,500.00	611.80	59.2
TOTAL GARBAGE	45,499.56	148,775.77	471,950.00	323,174.23	31.5
<u>MISCELLANEOUS</u>					
10-99-25 TECHNOLOGY UPGRADE	1,716.60	3,583.09	11,000.00	7,416.91	32.6
10-99-80 TRANSFER TO CAPITAL IMP FUND	.00	.00	500,000.00	500,000.00	.0
10-99-82 EMERGENCY PREP	60.00	60.00	5,000.00	4,940.00	1.2
TOTAL MISCELLANEOUS	1,776.60	3,643.09	516,000.00	512,356.91	.7
TOTAL FUND EXPENDITURES	356,239.48	1,701,108.43	5,192,505.00	3,491,396.57	32.8
NET REVENUE OVER EXPENDITURES	(47,612.48)	(515,552.73)	.00	515,552.73	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

CLASS C ROADS

<u>ASSETS</u>			
11-1190	CASH - ALLOCATION FROM GENERAL	884,193.91	
	TOTAL ASSETS		884,193.91
<u>LIABILITIES AND EQUITY</u>			
<u>FUND EQUITY</u>			
UNAPPROPRIATED FUND BALANCE:			
11-2980	BALANCE BEGINNING OF YEAR	910,666.06	
	REVENUE OVER EXPENDITURES - YTD	(26,472.15)	
	BALANCE - CURRENT DATE	884,193.91	
	TOTAL FUND EQUITY		884,193.91
	TOTAL LIABILITIES AND EQUITY		884,193.91

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

CLASS C ROADS

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
11-33-56 B&C ROAD FUND ALLOTMENT	.00	68,449.36	400,000.00	331,550.64	17.1
TOTAL SOURCE 33	.00	68,449.36	400,000.00	331,550.64	17.1
<u>TRANSFERS AND CONTRIBUTIONS</u>					
11-39-10 FUND BALANCE APPROPRIATION	.00	.00	250,000.00	250,000.00	.0
TOTAL TRANSFERS AND CONTRIBUTIONS	.00	.00	250,000.00	250,000.00	.0
TOTAL FUND REVENUE	.00	68,449.36	650,000.00	581,550.64	10.5

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

CLASS C ROADS

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
11-60-70 CLASS C ROAD FUND	77,334.01	94,921.51	650,000.00	555,078.49	14.6
TOTAL DEPARTMENT 60	77,334.01	94,921.51	650,000.00	555,078.49	14.6
TOTAL FUND EXPENDITURES	77,334.01	94,921.51	650,000.00	555,078.49	14.6
NET REVENUE OVER EXPENDITURES	(77,334.01)	(26,472.15)	.00	26,472.15	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

RECREATION IMPACT FEES

<u>ASSETS</u>			
15-1190	CASH - ALLOCATION FROM GENERAL	710,102.99	
	TOTAL ASSETS		710,102.99
<u>LIABILITIES AND EQUITY</u>			
<u>FUND EQUITY</u>			
15-2831	RESERVE-IMP RECREATION	571,085.62	
UNAPPROPRIATED FUND BALANCE:			
15-2980	BALANCE BEGINNING OF YEAR	133,641.37	
	REVENUE OVER EXPENDITURES - YTD	5,376.00	
	BALANCE - CURRENT DATE	139,017.37	
	TOTAL FUND EQUITY		710,102.99
	TOTAL LIABILITIES AND EQUITY		710,102.99

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

RECREATION IMPACT FEES

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
	<u>OPERATING REVENUES</u>					
15-37-31	RECREATION FACILITY FEES	.00	5,376.00	125,000.00	119,624.00	4.3
	TOTAL OPERATING REVENUES	.00	5,376.00	125,000.00	119,624.00	4.3
	<u>INTEREST AND MISC REVENUE</u>					
15-38-10	INTEREST EARNINGS	.00	.00	5,000.00	5,000.00	.0
	TOTAL INTEREST AND MISC REVENUE	.00	.00	5,000.00	5,000.00	.0
	TOTAL FUND REVENUE	.00	5,376.00	130,000.00	124,624.00	4.1

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

RECREATION IMPACT FEES

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>EXPENDITURES</u>					
15-40-31 PARK SYSTEM	.00	.00	130,000.00	130,000.00	.0
TOTAL EXPENDITURES	.00	.00	130,000.00	130,000.00	.0
TOTAL FUND EXPENDITURES	.00	.00	130,000.00	130,000.00	.0
NET REVENUE OVER EXPENDITURES	.00	5,376.00	.00	(5,376.00)	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

STREET IMPACT FEES

<u>ASSETS</u>			
16-1190	CASH - ALLOCATION FROM GENERAL	261,051.26	
	TOTAL ASSETS		261,051.26
<u>LIABILITIES AND EQUITY</u>			
<u>FUND EQUITY</u>			
UNAPPROPRIATED FUND BALANCE:			
16-2980	BALANCE BEGINNING OF YEAR	258,684.62	
	REVENUE OVER EXPENDITURES - YTD	2,366.64	
	BALANCE - CURRENT DATE	261,051.26	
	TOTAL FUND EQUITY		261,051.26
	TOTAL LIABILITIES AND EQUITY		261,051.26

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

STREET IMPACT FEES

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
<u>OPERATING REVENUES</u>					
16-37-21 STREETS & TRANSPORTATION FEES	.00	2,366.64	105,000.00	102,633.36	2.3
TOTAL OPERATING REVENUES	.00	2,366.64	105,000.00	102,633.36	2.3
TOTAL FUND REVENUE	.00	2,366.64	105,000.00	102,633.36	2.3

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

STREET IMPACT FEES

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>EXPENDITURES</u>					
16-40-21 STREET & TRANSPORT EXPENSES	.00	.00	105,000.00	105,000.00	.0
TOTAL EXPENDITURES	.00	.00	105,000.00	105,000.00	.0
TOTAL FUND EXPENDITURES	.00	.00	105,000.00	105,000.00	.0
NET REVENUE OVER EXPENDITURES	.00	2,366.64	.00	(2,366.64)	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

CAPITAL IMPROVEMENTS FUND

<u>ASSETS</u>			
45-1190	CASH - ALLOCATION TO OTHER FUN	3,475,177.14	
	TOTAL ASSETS		3,475,177.14
<u>LIABILITIES AND EQUITY</u>			
<u>LIABILITIES</u>			
45-2125	CEMETERY BOND-FLYNN PRODUCTION	1,000.00	
45-2138	PURPLE CHURCH MONUMENT	77.00	
45-2140	INFRA PROTECTION BONDS	854,819.09	
45-2147	OPEN SPACE BOND	79,500.00	
45-2150	RESTRICTED FOR ROADS	11,716.50	
45-2152	MOYLE PARK DONATIONS	5,212.00	
45-2155	DONATION/LAMBERT PARK	121,685.26	
	TOTAL LIABILITIES		1,074,009.85
<u>FUND EQUITY</u>			
UNAPPROPRIATED FUND BALANCE:			
45-2960	EQUIPMENT REPLACEMENT	151,529.36	
45-2970	RESTRICTED FOR ROADS	100,441.50	
45-2980	BALANCE BEGINNING OF YEAR	2,211,378.11	
	REVENUE OVER EXPENDITURES - YTD	(62,181.68)	
	BALANCE - CURRENT DATE	2,401,167.29	
	TOTAL FUND EQUITY		2,401,167.29
	TOTAL LIABILITIES AND EQUITY		3,475,177.14

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

CAPITAL IMPROVEMENTS FUND

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
	<u>INTEREST AND MISC REVENUE</u>					
45-38-10	INTEREST REVENUE	.00	.00	9,000.00	9,000.00	.0
45-38-17	MISCELLANEOUS REVENUE	.00	540.00	.00	(540.00)	.0
	TOTAL INTEREST AND MISC REVENUE	.00	540.00	9,000.00	8,460.00	6.0
	<u>TRANSFERS AND CONTRIBUTIONS</u>					
45-39-10	TRANSFER FROM GENERAL FUND	.00	.00	500,000.00	500,000.00	.0
45-39-11	CAPITOL IMPROVEMENTS FUND SURP	.00	.00	1,042,500.00	1,042,500.00	.0
	TOTAL TRANSFERS AND CONTRIBUTIONS	.00	.00	1,542,500.00	1,542,500.00	.0
	TOTAL FUND REVENUE	.00	540.00	1,551,500.00	1,550,960.00	.0

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

CAPITAL IMPROVEMENTS FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>EXPENDITURES</u>					
45-40-72 CAPITAL OUTLAY - OTHER	.00	62,721.68	1,142,000.00	1,079,278.32	5.5
45-40-73 CAPITAL OUTLAY BUILDINGS	.00	.00	375,000.00	375,000.00	.0
45-40-74 CAPITAL OUTLAY - EQUIPMENT	.00	.00	34,500.00	34,500.00	.0
TOTAL EXPENDITURES	.00	62,721.68	1,551,500.00	1,488,778.32	4.0
TOTAL FUND EXPENDITURES	.00	62,721.68	1,551,500.00	1,488,778.32	4.0
NET REVENUE OVER EXPENDITURES	.00	(62,181.68)	.00	62,181.68	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

WATER FUND

ASSETS

51-1190	CASH - ALLOCATION FROM GENERAL	2,451,655.65	
51-1311	WATER ACCOUNTS RECEIVABLE	65,700.26	
51-1314	ALLOWANCE FOR DOUBTFUL ACCOUNT	(1,758.43)	
51-1598	INVESTMENT IN WATER STOCK	73,400.00	
51-1610	DEFERRED OUTFLOWS-PENSIONS	52,554.00	
51-1611	LAND	219,000.00	
51-1621	BUILDING	169,102.63	
51-1622	ALLOWANCE FOR DEPRECIATION-BUI	(120,194.93)	
51-1631	IMPROVEMENTS OTHER THAN BUILDI	13,952,834.79	
51-1632	ALLOWANCE FOR DEPRECIATION-IMP	(4,814,967.10)	
51-1651	MACHINERY AND EQUIPMENT	716,608.43	
51-1652	ALLOWANCE FOR DEPR'N-MACH & EQ	(290,917.70)	
TOTAL ASSETS			12,473,017.60

LIABILITIES AND EQUITY

LIABILITIES

51-2151	UTILITY DEPOSIT	22,700.00	
51-2171	PROFESS & TECH SERVICES TBP	30,846.82	
51-2230	ST COMPENSATED ABSENCES	2,294.32	
51-2290	NET PENSION LIABILITY	58,908.00	
51-2410	DEFERRED INFLOWS-PENSIONS	42,032.00	
51-2530	LT COMPENSATED ABSENCES	383.00	
TOTAL LIABILITIES			157,164.14

FUND EQUITY

UNAPPROPRIATED FUND BALANCE:			
51-2980	BEGINNING OF YEAR	12,175,435.21	
	REVENUE OVER EXPENDITURES - YTD	140,418.25	
BALANCE - CURRENT DATE			12,315,853.46
TOTAL FUND EQUITY			12,315,853.46
TOTAL LIABILITIES AND EQUITY			12,473,017.60

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

WATER FUND

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
	<u>OPERATING REVENUES</u>					
51-37-11	METERED WATER SALES	51,408.79	266,406.18	600,000.00	333,593.82	44.4
51-37-12	OTHER WATER REVENUE	1,549.00	3,174.00	5,000.00	1,826.00	63.5
51-37-16	WATER CONNECTION FEE	1,270.00	4,930.00	5,000.00	70.00	98.6
51-37-17	PENALTIES	696.26	(1,527.38)	5,500.00	7,027.38	(27.8)
	TOTAL OPERATING REVENUES	54,924.05	272,982.80	615,500.00	342,517.20	44.4
	<u>INTEREST AND MISC REVENUE</u>					
51-38-10	INTEREST EARNINGS	.00	.00	21,000.00	21,000.00	.0
	TOTAL INTEREST AND MISC REVENUE	.00	.00	21,000.00	21,000.00	.0
	<u>TRANSFERS AND CONTRIBUTIONS</u>					
51-39-11	UNAPPROPRIATED FUND EQUITY	.00	.00	301,275.00	301,275.00	.0
	TOTAL TRANSFERS AND CONTRIBUTIONS	.00	.00	301,275.00	301,275.00	.0
	TOTAL FUND REVENUE	54,924.05	272,982.80	937,775.00	664,792.20	29.1

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

WATER FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>WATER EXPENDITURES</u>					
51-80-11 SALARIES & WAGES	9,845.29	39,767.93	146,000.00	106,232.07	27.2
51-80-13 EMPLOYEE BENEFITS	6,433.63	25,878.59	84,750.00	58,871.41	30.5
51-80-14 OVERTIME WAGES	776.86	3,269.86	11,000.00	7,730.14	29.7
51-80-21 BOOKS, SUBSCRIPTIONS & MEMBERS	.00	.00	2,500.00	2,500.00	.0
51-80-23 TRAVEL	8.50	313.22	3,000.00	2,686.78	10.4
51-80-24 OFFICE SUPPLIES & POS	1,779.66	3,709.26	13,000.00	9,290.74	28.5
51-80-25 EQUIPMENT-SUPPLIES & MAINTENAN	1,800.73	6,742.26	21,000.00	14,257.74	32.1
51-80-26 BUILDING AND GROUNDS SUPPLIES	8,100.55	12,165.93	15,000.00	2,834.07	81.1
51-80-27 UTILITIES	2,211.35	11,089.85	25,000.00	13,910.15	44.4
51-80-28 TELEPHONE	195.86	617.84	1,600.00	982.16	38.6
51-80-31 PROFESSIONAL & TECHNICAL SERVI	388.59	2,936.44	18,900.00	15,963.56	15.5
51-80-33 EDUCATION	130.00	130.00	1,000.00	870.00	13.0
51-80-34 TECHNOLOGY UPDATE	584.91	1,373.44	10,000.00	8,626.56	13.7
51-80-35 DEPRECIATION EXPENSE	.00	.00	255,000.00	255,000.00	.0
51-80-51 INSURANCE AND SURETY BONDS	(117.08)	8,723.55	10,900.00	2,176.45	80.0
51-80-62 MISCELLANEOUS SERVICES	111.60	423.15	1,500.00	1,076.85	28.2
51-80-63 OTHER EXPENSES	3,292.10	6,008.23	7,500.00	1,491.77	80.1
51-80-72 CAPITAL OUTLAY - BUILDINGS	.00	.00	50,000.00	50,000.00	.0
51-80-73 CAPITOL OUTLAY - IMPROVEMENTS	.00	7,915.00	250,000.00	242,085.00	3.2
51-80-74 CAPITAL OUTLAY - EQUIPMENT	.00	1,500.00	10,125.00	8,625.00	14.8
TOTAL WATER EXPENDITURES	35,542.55	132,564.55	937,775.00	805,210.45	14.1
TOTAL FUND EXPENDITURES	35,542.55	132,564.55	937,775.00	805,210.45	14.1
NET REVENUE OVER EXPENDITURES	19,381.50	140,418.25	.00	(140,418.25)	.0

ALPINE CITY CORPORATION

BALANCE SHEET

OCTOBER 31, 2018

SEWER FUND

ASSETS

52-1190	CASH - ALLOCATION TO OTHER FUN	2,192,594.04	
52-1312	SEWER ACCOUNTS RECEIVABLE	89,463.13	
52-1314	ALLOWANCE FOR DOUBTFUL ACCOUNT	(2,500.00)	
52-1610	DEFERRED OUTFLOWS-PENSIONS	48,497.00	
52-1611	LAND	21,072.00	
52-1621	BUILDING	45,971.00	
52-1622	ALLOWANCE FOR DEPRECIATION-BUI	(36,606.22)	
52-1631	IMPROVEMENTS OTHER THAN BUILDI	7,581,524.12	
52-1632	ALLOWANCE FOR DEPRECIATION-IMP	(2,646,620.80)	
52-1651	MACHINERY AND EQUIPMENT	243,264.93	
52-1652	ALLOWANCE FOR DEPR'N-MACH & EQ	(173,389.83)	
TOTAL ASSETS			7,363,269.37

LIABILITIES AND EQUITYLIABILITIES

52-2230	ST COMPENSATED ABSENCES	19,665.00	
52-2290	NET PENSION LIABILITY	54,359.83	
52-2300	TSSD CLEARING ACCOUNT	3,416.00	
52-2410	DEFERRED INFLOWS-PENSIONS	38,787.00	
52-2530	LT COMPENSATED ABSENCES	272.00	
TOTAL LIABILITIES			116,499.83

FUND EQUITY

UNAPPROPRIATED FUND BALANCE:			
52-2980	BALANCE BEGINNING OF YEAR	7,126,377.44	
	REVENUE OVER EXPENDITURES - YTD	120,392.10	
BALANCE - CURRENT DATE		7,246,769.54	
TOTAL FUND EQUITY			7,246,769.54
TOTAL LIABILITIES AND EQUITY			7,363,269.37

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

SEWER FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
<u>OPERATING REVENUES</u>					
52-37-11 SEWER SYSTEM USAGE SALES	83,198.31	338,051.45	1,025,000.00	686,948.55	33.0
52-37-12 OTHER REVENUE	.00	.00	10,000.00	10,000.00	.0
52-37-16 SEWER CONNECTION FEE	375.00	2,000.00	5,000.00	3,000.00	40.0
TOTAL OPERATING REVENUES	83,573.31	340,051.45	1,040,000.00	699,948.55	32.7
<u>INTEREST AND MISC REVENUE</u>					
52-38-10 INTEREST EARNINGS	.00	.00	12,000.00	12,000.00	.0
TOTAL INTEREST AND MISC REVENUE	.00	.00	12,000.00	12,000.00	.0
<u>TRANSFERS AND CONTRIBUTIONS</u>					
52-39-11 UNAPPROPRIATED FUND EQUITY	.00	.00	27,975.00	27,975.00	.0
TOTAL TRANSFERS AND CONTRIBUTIONS	.00	.00	27,975.00	27,975.00	.0
TOTAL FUND REVENUE	83,573.31	340,051.45	1,079,975.00	739,923.55	31.5

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

SEWER FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>SEWER EXPENDITURES</u>					
52-81-11 SALARIES & WAGES	9,845.29	39,767.93	132,000.00	92,232.07	30.1
52-81-13 EMPLOYEE BENEFITS	6,435.63	25,886.13	84,750.00	58,863.87	30.5
52-81-14 OVERTIME WAGES	776.86	3,269.86	10,000.00	6,730.14	32.7
52-81-23 TRAVEL	8.50	304.50	2,500.00	2,195.50	12.2
52-81-24 OFFICE SUPPLIES & POSTAGE	346.49	1,039.23	12,000.00	10,960.77	8.7
52-81-25 EQUIPMENT-SUPPLIES & MAINTENAN	.00	.00	5,000.00	5,000.00	.0
52-81-26 BUILDING AND GROUND SUPPLIES	4,543.44	6,229.78	11,600.00	5,370.22	53.7
52-81-27 UTILITIES	24.63	103.47	500.00	396.53	20.7
52-81-28 TELEPHONE	155.35	504.28	4,250.00	3,745.72	11.9
52-81-31 PROFESSIONAL & TECHNICAL	200.00	2,650.00	8,000.00	5,350.00	33.1
52-81-34 TECHNOLOGY UPDATE	584.91	1,373.44	.00	(1,373.44)	.0
52-81-35 DEPRECIATION EXPENSE	.00	.00	130,000.00	130,000.00	.0
52-81-62 TIMPANOGOS SPECIAL SERVICE DIS	41,588.20	127,986.75	598,250.00	470,263.25	21.4
52-81-64 OTHER EXPENSES	(44.68)	9,043.98	.00	(9,043.98)	.0
52-81-73 CAPITAL OUTLAY-IMPROVEMENTS	.00	.00	65,000.00	65,000.00	.0
52-81-74 CAPITAL OUTLAY - EQUIPMENT	.00	1,500.00	10,125.00	8,625.00	14.8
TOTAL SEWER EXPENDITURES	64,464.62	219,659.35	1,073,975.00	854,315.65	20.5
TOTAL FUND EXPENDITURES	64,464.62	219,659.35	1,073,975.00	854,315.65	20.5
NET REVENUE OVER EXPENDITURES	19,108.69	120,392.10	6,000.00	(114,392.10)	2006.5

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

PRESSURIZED IRRIGATION FUND

ASSETS

55-1190	CASH - ALLOCATION TO OTHER FUN	1,708,574.51	
55-1284	CASH - 2010 BOND FUND #418	1,008.72	
55-1311	ACCOUNTS RECEIVABLE	79,617.46	
55-1314	ALLOWANCE FOR DOUBTFUL ACCOUNT	(2,363.11)	
55-1610	DEFERRED OUTFLOWS-PENSIONS	33,432.00	
55-1631	PRESSURIZED IRRIGATION SYSTEM	11,204,790.03	
55-1632	ACCUMULATION DEPRECIATION-IMPR	(3,358,730.70)	
55-1651	MACHINERY AND EQUIPMENT	255,679.05	
55-1652	ALLOWANCE FOR DEPR'N-MACH & EQ	(152,326.60)	
55-1910	DEFERED AMOUNT ON REFUNDING	212,978.02	
TOTAL ASSETS			9,982,659.38

LIABILITIES AND EQUITY

LIABILITIES

55-2141	ACCRUED INTEREST PAYABLE	25,962.19	
55-2230	ST COMPENSATED ABSENCES	5,314.53	
55-2290	NET PENSION LIABILITY	37,474.00	
55-2410	DEFERRED INFLOWS-PENSIONS	26,738.00	
55-2511	CURRENT PORTION OF BONDS	365,000.00	
55-2531	BOND - 2010 WATER REFUNDING	2,875,000.00	
55-2540	LT COMPENSATED ABSENCES	883.00	
TOTAL LIABILITIES			3,336,371.72

FUND EQUITY

UNAPPROPRIATED FUND BALANCE:			
55-2980	BALANCE BEGINNING OF YEAR	7,379,128.32	
	REVENUE OVER EXPENDITURES - YTD	(732,840.66)	
BALANCE - CURRENT DATE		6,646,287.66	
TOTAL FUND EQUITY			6,646,287.66
TOTAL LIABILITIES AND EQUITY			9,982,659.38

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

PRESSURIZED IRRIGATION FUND

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
	<u>INTERGOVERNMENTAL REVENUE</u>					
55-33-20	PI IRRIGATION GRANT PROJECT	303,626.03	303,626.03	.00	(303,626.03)	.0
	TOTAL INTERGOVERNMENTAL REVENUE	303,626.03	303,626.03	.00	(303,626.03)	.0
	<u>OPERATING REVENUES</u>					
55-37-11	IRRIGATION WATER SALES	76,507.40	305,296.73	875,000.00	569,703.27	34.9
55-37-12	OTHER REVENUE	550.00	550.00	1,000.00	450.00	55.0
55-37-16	PRESSURIZED CONNECTION FEE	545.00	6,495.00	2,500.00	(3,995.00)	259.8
	TOTAL OPERATING REVENUES	77,602.40	312,341.73	878,500.00	566,158.27	35.6
	<u>INTEREST AND MISC REVENUE</u>					
55-38-10	INTEREST EARNINGS	890.49	1,009.14	14,000.00	12,990.86	7.2
	TOTAL INTEREST AND MISC REVENUE	890.49	1,009.14	14,000.00	12,990.86	7.2
	<u>TRANSFERS AND CONTRIBUTIONS</u>					
55-39-11	UNAPPROPRIATED FUND EQUITY	.00	.00	631,452.00	631,452.00	.0
	TOTAL TRANSFERS AND CONTRIBUTIONS	.00	.00	631,452.00	631,452.00	.0
	TOTAL FUND REVENUE	382,118.92	616,976.90	1,523,952.00	906,975.10	40.5

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

PRESSURIZED IRRIGATION FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>EXPENDITURES</u>					
55-40-11 SALARIES & WAGES, ADMINISTRATI	6,157.21	25,006.79	97,000.00	71,993.21	25.8
55-40-13 EMPLOYEE BENEFITS	3,888.75	15,680.06	56,250.00	40,569.94	27.9
55-40-14 OVERTIME WAGES	173.60	722.29	13,000.00	12,277.71	5.6
55-40-23 TRAVEL	8.50	304.50	1,200.00	895.50	25.4
55-40-25 EQUIPMENT - SUPPLIES & MAINTEN	3,116.36	8,511.23	65,000.00	56,488.77	13.1
55-40-26 BUILDING & GROUNDS SUPPLIES	152.04	5,605.87	5,000.00	(605.87)	112.1
55-40-27 UTILITIES	57,263.18	245,410.99	225,000.00	(20,410.99)	109.1
55-40-28 TELEPHONE	104.98	302.85	1,500.00	1,197.15	20.2
55-40-29 OFFICE SUPPLIES & POSTAGE	477.75	2,234.37	12,000.00	9,765.63	18.6
55-40-31 PROFESSIONAL & TECHNICAL SERVI	100.00	725.00	5,000.00	4,275.00	14.5
55-40-32 ENGINEER SERVICES	.00	153.00	10,000.00	9,847.00	1.5
55-40-33 TECHNOLOGY UPDATE	584.91	1,373.44	5,500.00	4,126.56	25.0
55-40-34 ANNUAL AUDIT - UTAH WATER	.00	.00	500.00	500.00	.0
55-40-35 DEPRECIATION EXPENSE	.00	.00	223,704.00	223,704.00	.0
55-40-51 INSURANCE & SURETY BONDS	(117.08)	8,723.55	20,000.00	11,276.45	43.6
55-40-62 MISCELLANEOUS SERVICES	643.47	855.29	3,000.00	2,144.71	28.5
55-40-63 OTHER EXPENSES	3,419.58	3,749.08	1,500.00	(2,249.08)	249.9
55-40-73 CAPITAL OUTLAY	.00	46,668.00	.00	(46,668.00)	.0
55-40-74 CAPITAL OUTLAY - EQUIPMENT	.00	1,500.00	10,125.00	8,625.00	14.8
55-40-75 IRRIGATION METER REPLACEMENT	121,315.22	563,366.87	300,000.00	(263,366.87)	187.8
55-40-79 AGENTS FEES	.00	.00	2,500.00	2,500.00	.0
55-40-80 TRUSTEE FEES	.00	2,000.00	2,000.00	.00	100.0
55-40-86 BOND PRINCIPAL #0352418	365,000.00	365,000.00	355,000.00	(10,000.00)	102.8
55-40-87 BOND INTEREST #0352418	51,924.38	51,924.38	109,173.00	57,248.62	47.6
TOTAL EXPENDITURES	614,212.85	1,349,817.56	1,523,952.00	174,134.44	88.6
TOTAL FUND EXPENDITURES	614,212.85	1,349,817.56	1,523,952.00	174,134.44	88.6
NET REVENUE OVER EXPENDITURES	(232,093.93)	(732,840.66)	.00	732,840.66	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

STORM DRAIN FUND

ASSETS

56-1190	CASH - ALLOCATION TO OTHER FUN	603,914.02	
56-1313	STORM DRAIN ACCTS RECEIVABLE	15,131.29	
56-1314	ALLOWANCE FOR DOUBTFUL ACCOUNT	(2,381.89)	
56-1610	DEFERRED OUTFLOWS-PENSIONS	13,052.00	
56-1611	LAND	216,055.23	
56-1631	STORM DRAIN IMPROVEMENTS	5,340,571.51	
56-1632	ALLOWANCE FOR DEPRECIATION	(1,205,981.29)	
	TOTAL ASSETS		4,980,360.87

LIABILITIES AND EQUITY

LIABILITIES

56-2230	ST COMPENSATED ABSENCES	7,688.00	
56-2290	NET PENSION LIABILITY	14,630.00	
56-2410	DEFERRED INFLOWS-PENSIONS	10,439.00	
56-2530	LT COMPENSATED ABSENCES	1,282.00	
	TOTAL LIABILITIES		34,039.00

FUND EQUITY

	UNAPPROPRIATED FUND BALANCE:		
56-2920	CONTRA IMPACT FEE	24,562.00	
56-2980	BALANCE BEGINNING OF YEAR	4,895,357.57	
	REVENUE OVER EXPENDITURES - YTD	26,402.30	
	BALANCE - CURRENT DATE	4,946,321.87	
	TOTAL FUND EQUITY		4,946,321.87
	TOTAL LIABILITIES AND EQUITY		4,980,360.87

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

STORM DRAIN FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
<u>OPERATING REVENUES</u>					
56-37-11 STORM DRAIN REVENUE	14,297.71	56,907.09	165,000.00	108,092.91	34.5
56-37-12 OTHER REVENUE	.00	.00	1,000.00	1,000.00	.0
56-37-13 SWPP FEE	600.00	4,500.00	10,000.00	5,500.00	45.0
TOTAL OPERATING REVENUES	14,897.71	61,407.09	176,000.00	114,592.91	34.9
<u>INTEREST AND MISC REVENUE</u>					
56-38-10 INTEREST EARNINGS	.00	.00	4,000.00	4,000.00	.0
TOTAL INTEREST AND MISC REVENUE	.00	.00	4,000.00	4,000.00	.0
<u>SOURCE 39</u>					
56-39-12 UNAPPROPRIATED FUND EQUITY	.00	.00	101,100.00	101,100.00	.0
TOTAL SOURCE 39	.00	.00	101,100.00	101,100.00	.0
TOTAL FUND REVENUE	14,897.71	61,407.09	281,100.00	219,692.91	21.9

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

STORM DRAIN FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>EXPENDITURES</u>					
56-40-11 SALARIES & WAGES, ADMINISTRATI	3,232.77	12,631.96	42,250.00	29,618.04	29.9
56-40-13 EMPLOYEE BENEFITS	2,169.29	8,581.50	26,250.00	17,668.50	32.7
56-40-20 PLANNING	.00	.00	500.00	500.00	.0
56-40-21 BOOKS, SUBSCRIPTIONS & MEMBERS	.00	.00	2,000.00	2,000.00	.0
56-40-23 TRAVEL	8.51	304.51	650.00	345.49	46.9
56-40-24 OFFICE SUPPLIES & POSTAGE	.00	.00	2,500.00	2,500.00	.0
56-40-26 BUILDING & GROUND SUPPLIES	.00	264.50	4,500.00	4,235.50	5.9
56-40-34 TECHNOLOGY UPDATE	584.91	1,373.44	5,000.00	3,626.56	27.5
56-40-35 DEPRECIATION EXPENSE	.00	.00	83,500.00	83,500.00	.0
56-40-51 INSURANCE	(117.08)	8,723.62	10,000.00	1,276.38	87.2
56-40-62 MISCELLANEOUS SERVICES	72.40	2,039.60	3,950.00	1,910.40	51.6
56-40-73 CAPITAL OUTLAY	.00	1,085.66	100,000.00	98,914.34	1.1
TOTAL EXPENDITURES	5,950.80	35,004.79	281,100.00	246,095.21	12.5
TOTAL FUND EXPENDITURES	5,950.80	35,004.79	281,100.00	246,095.21	12.5
NET REVENUE OVER EXPENDITURES	8,946.91	26,402.30	.00	(26,402.30)	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

TRUST AND AGENCY FUND

ASSETS

70-1190	CASH - ALLOCATION TO OTHER FUN	175,841.18	
	TOTAL ASSETS		175,841.18

LIABILITIES AND EQUITY

LIABILITIES

70-2422	CASH BOND TERRY PEARCE SITE	1,007.20	
70-2425	ESCROW BOND 1095 E WATKINS LN	880.00	
70-2430	ESCROW RIDGE DRIVE SIDEWALK	1,323.00	
70-2432	ESCROW 648 N PATTERSON LN C&G	2,400.00	
70-2445	CASH BOND FOR NORTH GROVE DR	11,866.20	
70-2446	BOND FOR BURGESS PL SIDEWALK	400.00	
70-2449	RED DEER CONSTRUCTION	6,312.00	
70-2450	PERRY/APPLE CREEK ACRES	84.00	
70-2451	ALPINE ACRES PLAT C C&G	2,240.00	
70-2453	CARL PACK STREET ESCROW	12,279.17	
70-2454	JOANN PACK STREET ESCROW	12,198.38	
70-2455	WAYNE PACK STREET ESCROW	12,198.38	
70-2456	LORRAINE WALZ STREET ESCROW	13,727.00	
70-2457	JONES SITE PLAN 253 N 200 E	547.00	
70-2458	VINTAGE PLACE B	845.00	
70-2538	WILLIS BECKSTEAD - WATER MAIN	280.61	
70-2544	DON ROGERS - FORT CANYON	1,291.31	
70-2545	DON ROGERS - FORT CANYON	12,918.62	
70-2572	BOND FOR JAMES MOYLE	3,010.00	
70-2579	BOND FOR RED PINE DRIVE	2,995.00	
70-2586	BOND FOR DAVID PEIRCE 600 S	904.00	
70-2591	BOND FOR RIVER MEADOWS OFC PK	4,012.50	
70-2599	BOND FOR 300 NORTH EXTENTION	10,586.00	
	TOTAL LIABILITIES		114,305.37

FUND EQUITY

70-2600	BOND FOR BECK PINES PLAT A	4,167.30	
70-2602	BOND FOR BECK PINES PLAT C	3,715.54	
70-2610	BOND FOR HERITAGE HILLS	10,800.00	
UNAPPROPRIATED FUND BALANCE:			
70-2980	BALANCE BEGINNING OF YEAR	42,852.97	
	BALANCE - CURRENT DATE	42,852.97	
	TOTAL FUND EQUITY		61,535.81
	TOTAL LIABILITIES AND EQUITY		175,841.18

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

TRUST AND AGENCY FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
<u>INTEREST AND MISC REVENUE</u>					
70-38-10 INTEREST REVENUE	.00	.00	1,000.00	1,000.00	.0
TOTAL INTEREST AND MISC REVENUE	.00	.00	1,000.00	1,000.00	.0
TOTAL FUND REVENUE	.00	.00	1,000.00	1,000.00	.0

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

TRUST AND AGENCY FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>EXPENDITURES</u>					
70-40-64 MISCELLANEOUS EXPENSES	.00	.00	1,000.00	1,000.00	.0
TOTAL EXPENDITURES	.00	.00	1,000.00	1,000.00	.0
TOTAL FUND EXPENDITURES	.00	.00	1,000.00	1,000.00	.0
NET REVENUE OVER EXPENDITURES	.00	.00	.00	.00	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

CEMETERY PERPETUAL CARE FUND

ASSETS

71-1190 CASH - ALLOCATION TO OTHER FUN

611,429.49

TOTAL ASSETS

611,429.49

LIABILITIES AND EQUITY

FUND EQUITY

UNAPPROPRIATED FUND BALANCE:

71-2980 BALANCE BEGINNING OF YEAR

614,030.74

REVENUE OVER EXPENDITURES - YTD

(2,601.25)

BALANCE - CURRENT DATE

611,429.49

TOTAL FUND EQUITY

611,429.49

TOTAL LIABILITIES AND EQUITY

611,429.49

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

CEMETERY PERPETUAL CARE FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
<u>INTERGOVERNMENTAL REVENUE</u>					
71-33-56 CEMETERY LOT PAYMENTS	2,955.00	6,648.75	13,000.00	6,351.25	51.1
71-33-58 UPRIGHT MONUMENT	75.00	600.00	2,500.00	1,900.00	24.0
TOTAL INTERGOVERNMENTAL REVENUE	3,030.00	7,248.75	15,500.00	8,251.25	46.8
<u>INTEREST AND MISC REVENUE</u>					
71-38-10 INTEREST REVENUE	.00	.00	2,500.00	2,500.00	.0
TOTAL INTEREST AND MISC REVENUE	.00	.00	2,500.00	2,500.00	.0
TOTAL FUND REVENUE	3,030.00	7,248.75	18,000.00	10,751.25	40.3

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

CEMETERY PERPETUAL CARE FUND

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>EXPENDITURES</u>					
71-40-64 OTHER EXPENSES	3,940.00	9,850.00	18,000.00	8,150.00	54.7
TOTAL EXPENDITURES	3,940.00	9,850.00	18,000.00	8,150.00	54.7
TOTAL FUND EXPENDITURES	3,940.00	9,850.00	18,000.00	8,150.00	54.7
NET REVENUE OVER EXPENDITURES	(910.00)	(2,601.25)	.00	2,601.25	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

WATER IMPACT FEES

<u>ASSETS</u>			
81-1190	CASH - ALLOCATION FROM GENERAL	314,937.43	
TOTAL ASSETS			314,937.43
<u>LIABILITIES AND EQUITY</u>			
<u>FUND EQUITY</u>			
UNAPPROPRIATED FUND BALANCE:			
81-2980	BALANCE BEGINNING OF YEAR	292,553.93	
	REVENUE OVER EXPENDITURES - YTD	22,383.50	
BALANCE - CURRENT DATE		314,937.43	
TOTAL FUND EQUITY			314,937.43
TOTAL LIABILITIES AND EQUITY			314,937.43

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

WATER IMPACT FEES

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
<u>OPERATING REVENUES</u>					
81-37-20 WATER IMPACT FEES	7,861.00	22,460.00	70,000.00	47,540.00	32.1
TOTAL OPERATING REVENUES	7,861.00	22,460.00	70,000.00	47,540.00	32.1
TOTAL FUND REVENUE	7,861.00	22,460.00	70,000.00	47,540.00	32.1

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

WATER IMPACT FEES

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>IMPACT FEE PROJECTS</u>					
81-80-70 CAPITAL OUTLAY - IMPACT FEE	.00	76.50	70,000.00	69,923.50	.1
TOTAL IMPACT FEE PROJECTS	.00	76.50	70,000.00	69,923.50	.1
TOTAL FUND EXPENDITURES	.00	76.50	70,000.00	69,923.50	.1
NET REVENUE OVER EXPENDITURES	7,861.00	22,383.50	.00	(22,383.50)	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

SEWER IMPACT FEES

<u>ASSETS</u>			
82-1190	CASH - ALLOCATION FROM GENERAL	64,566.88	
TOTAL ASSETS			64,566.88
<u>LIABILITIES AND EQUITY</u>			
<u>FUND EQUITY</u>			
UNAPPROPRIATED FUND BALANCE:			
82-2980	BALANCE BEGINNING OF YEAR	57,176.98	
	REVENUE OVER EXPENDITURES - YTD	7,389.90	
BALANCE - CURRENT DATE		64,566.88	
TOTAL FUND EQUITY			64,566.88
TOTAL LIABILITIES AND EQUITY			64,566.88

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

SEWER IMPACT FEES

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
<u>OPERATING REVENUES</u>					
82-37-20 SEWER IMPACT FEES	985.32	7,389.90	20,000.00	12,610.10	37.0
TOTAL OPERATING REVENUES	985.32	7,389.90	20,000.00	12,610.10	37.0
TOTAL FUND REVENUE	985.32	7,389.90	20,000.00	12,610.10	37.0

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

SEWER IMPACT FEES

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>IMPACT FEE PROJECTS</u>					
82-80-70 CAPITAL OUTLAY - IMPACT FEE	.00	.00	20,000.00	20,000.00	.0
TOTAL IMPACT FEE PROJECTS	.00	.00	20,000.00	20,000.00	.0
TOTAL FUND EXPENDITURES	.00	.00	20,000.00	20,000.00	.0
NET REVENUE OVER EXPENDITURES	985.32	7,389.90	.00	(7,389.90)	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

PI IMPACT FEES

<u>ASSETS</u>			
85-1190	CASH - ALLOCATION FROM GENERAL	131,140.33	
TOTAL ASSETS			131,140.33
<u>LIABILITIES AND EQUITY</u>			
<u>FUND EQUITY</u>			
UNAPPROPRIATED FUND BALANCE:			
85-2980	BALANCE BEGINNING OF YEAR	88,682.44	
	REVENUE OVER EXPENDITURES - YTD	42,457.89	
BALANCE - CURRENT DATE		131,140.33	
TOTAL FUND EQUITY			131,140.33
TOTAL LIABILITIES AND EQUITY			131,140.33

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

PI IMPACT FEES

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
<u>OPERATING REVENUES</u>					
85-37-20 PI IMPACT FEES	2,813.97	42,457.89	75,000.00	32,542.11	56.6
TOTAL OPERATING REVENUES	2,813.97	42,457.89	75,000.00	32,542.11	56.6
TOTAL FUND REVENUE	2,813.97	42,457.89	75,000.00	32,542.11	56.6

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

PI IMPACT FEES

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>IMPACT FEE PROJECTS</u>					
85-80-70 CAPITAL OUTLAY - IMPACT FEE	.00	.00	75,000.00	75,000.00	.0
TOTAL IMPACT FEE PROJECTS	.00	.00	75,000.00	75,000.00	.0
TOTAL FUND EXPENDITURES	.00	.00	75,000.00	75,000.00	.0
NET REVENUE OVER EXPENDITURES	2,813.97	42,457.89	.00	(42,457.89)	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

STORM DRAIN IMPACT FEES

ASSETS

86-1190 CASH - ALLOCATION FROM GENERAL

168,561.53

TOTAL ASSETS

168,561.53

LIABILITIES AND EQUITY

FUND EQUITY

UNAPPROPRIATED FUND BALANCE:

86-2920 CONTRA IMPACT FEE (24,562.00)

86-2980 BALANCE BEGINNING OF YEAR 252,113.53

REVENUE OVER EXPENDITURES - YTD (58,990.00)

BALANCE - CURRENT DATE

168,561.53

TOTAL FUND EQUITY

168,561.53

TOTAL LIABILITIES AND EQUITY

168,561.53

ALPINE CITY CORPORATION
REVENUES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

STORM DRAIN IMPACT FEES

		<u>PERIOD ACTUAL</u>	<u>YTD ACTUAL</u>	<u>BUDGET</u>	<u>UNEARNED</u>	<u>PCNT</u>
	<u>OPERATING REVENUES</u>					
86-37-20	STORM DRAIN IMPACT FEES	<u>.00</u>	<u>1,600.00</u>	<u>65,000.00</u>	<u>63,400.00</u>	<u>2.5</u>
	TOTAL OPERATING REVENUES	<u>.00</u>	<u>1,600.00</u>	<u>65,000.00</u>	<u>63,400.00</u>	<u>2.5</u>
	TOTAL FUND REVENUE	<u>.00</u>	<u>1,600.00</u>	<u>65,000.00</u>	<u>63,400.00</u>	<u>2.5</u>

ALPINE CITY CORPORATION
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 4 MONTHS ENDING OCTOBER 31, 2018

STORM DRAIN IMPACT FEES

	PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
<u>IMPACT FEE PROJECTS</u>					
86-80-70 CAPITAL OUTLAY - IMPACT FEE	60,590.00	60,590.00	65,000.00	4,410.00	93.2
TOTAL IMPACT FEE PROJECTS	60,590.00	60,590.00	65,000.00	4,410.00	93.2
TOTAL FUND EXPENDITURES	60,590.00	60,590.00	65,000.00	4,410.00	93.2
NET REVENUE OVER EXPENDITURES	(60,590.00)	(58,990.00)	.00	58,990.00	.0

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

FUND 91

ASSETS

91-1611	LAND	22,775,041.33	
91-1621	BUILDINGS	1,844,182.97	
91-1631	IMPROVEMENTS OTHER THAN BUILDI	36,499,484.30	
91-1641	OFFICE FURNITURE AND EQUIPMENT	176,900.00	
91-1651	MACHINERY AND EQUIPMENT	949,797.17	
91-1690	ACCUMULATED DEPRECIATION	(20,362,434.86)	
TOTAL ASSETS			41,882,970.91

LIABILITIES AND EQUITY

FUND EQUITY

UNAPPROPRIATED FUND BALANCE:			
91-2980	BEGINNING OF YEAR	38,150,052.63	
91-2985	ADDITIONS - CURRENT YEAR	3,732,918.28	
BALANCE - CURRENT DATE		41,882,970.91	
TOTAL FUND EQUITY			41,882,970.91
TOTAL LIABILITIES AND EQUITY			41,882,970.91

ALPINE CITY CORPORATION
BALANCE SHEET
OCTOBER 31, 2018

GENERAL LONG-TERM DEBT

ASSETS

95-1610	DEFERRED OUTFLOW PENSION	166,971.00	
95-1611	AMOUNT TO BE PROVIDED-GEN FUND	439,888.75	
	TOTAL ASSETS		606,859.75

LIABILITIES AND EQUITY

LIABILITIES

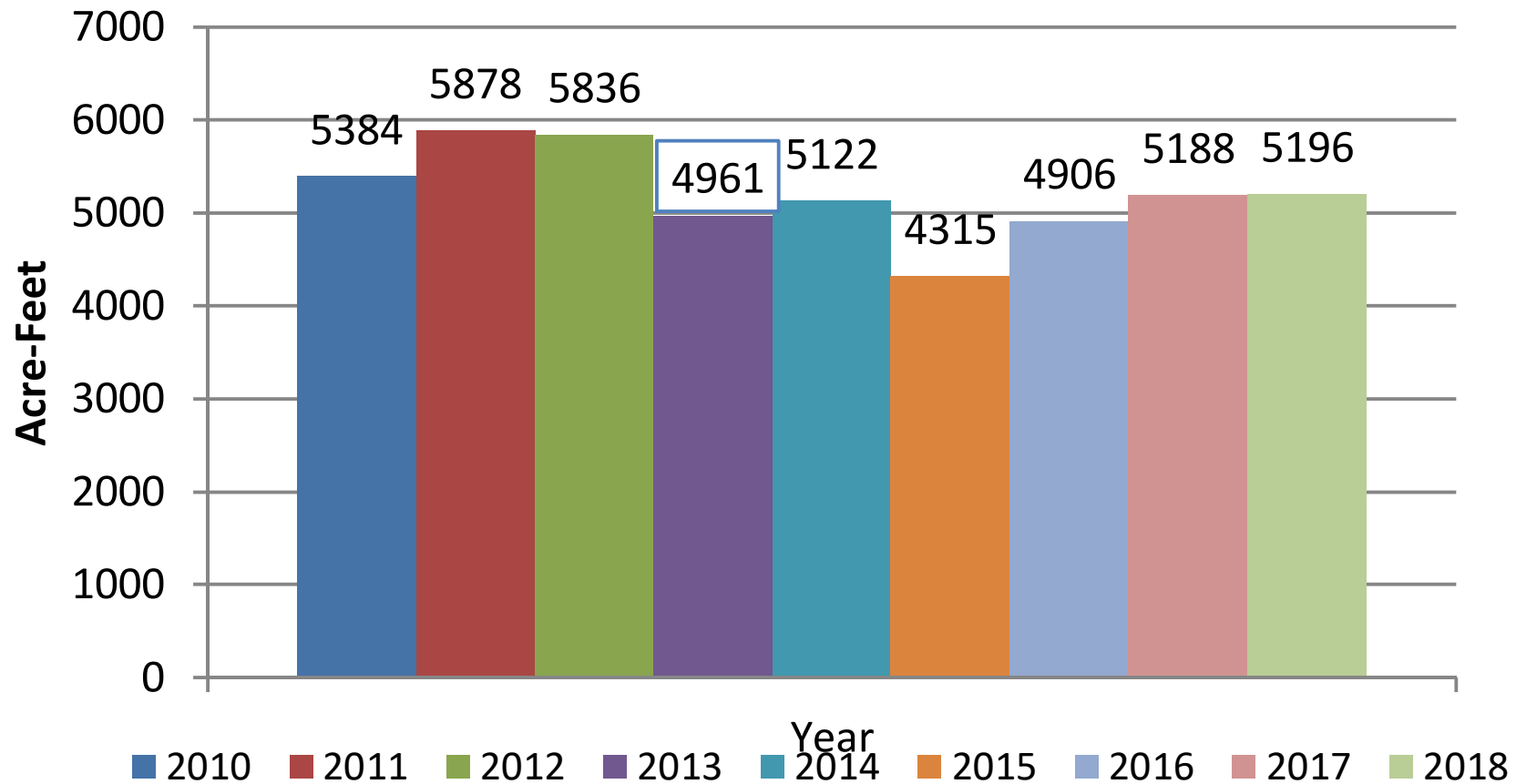
95-2090	SWEEPER LEASE	189,900.00	
95-2290	NET PENSION LIABILITY	187,159.00	
95-2410	DEFERRED INFLOWS PENSION	133,542.68	
	TOTAL LIABILITIES		510,601.68

FUND EQUITY

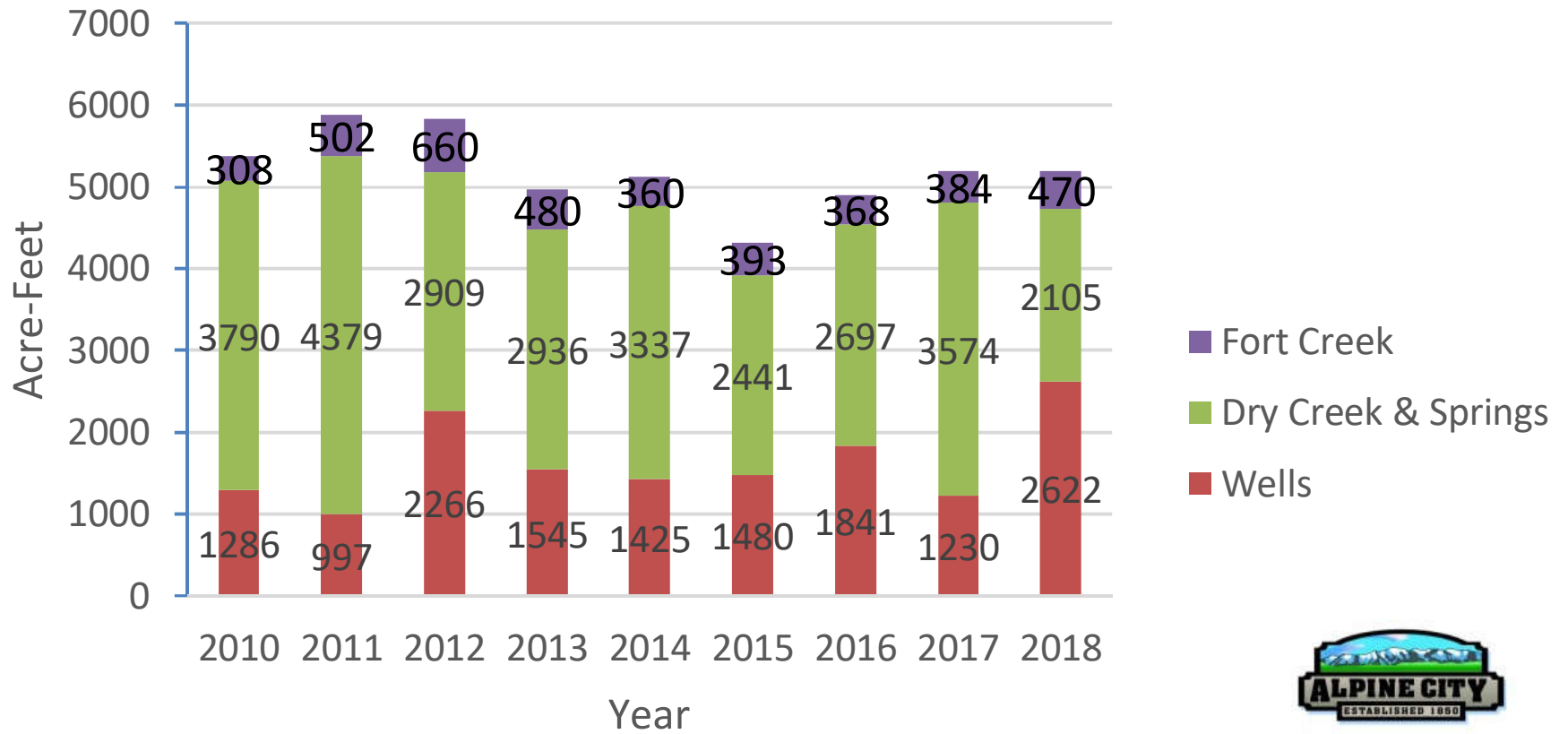
UNAPPROPRIATED FUND BALANCE:

95-2940	ACC COMP ABSENCES-CURRENT	84,584.35	
95-2950	ACC COMP ABSENCES	11,673.72	
	BALANCE - CURRENT DATE	96,258.07	
	TOTAL FUND EQUITY		96,258.07
	TOTAL LIABILITIES AND EQUITY		606,859.75

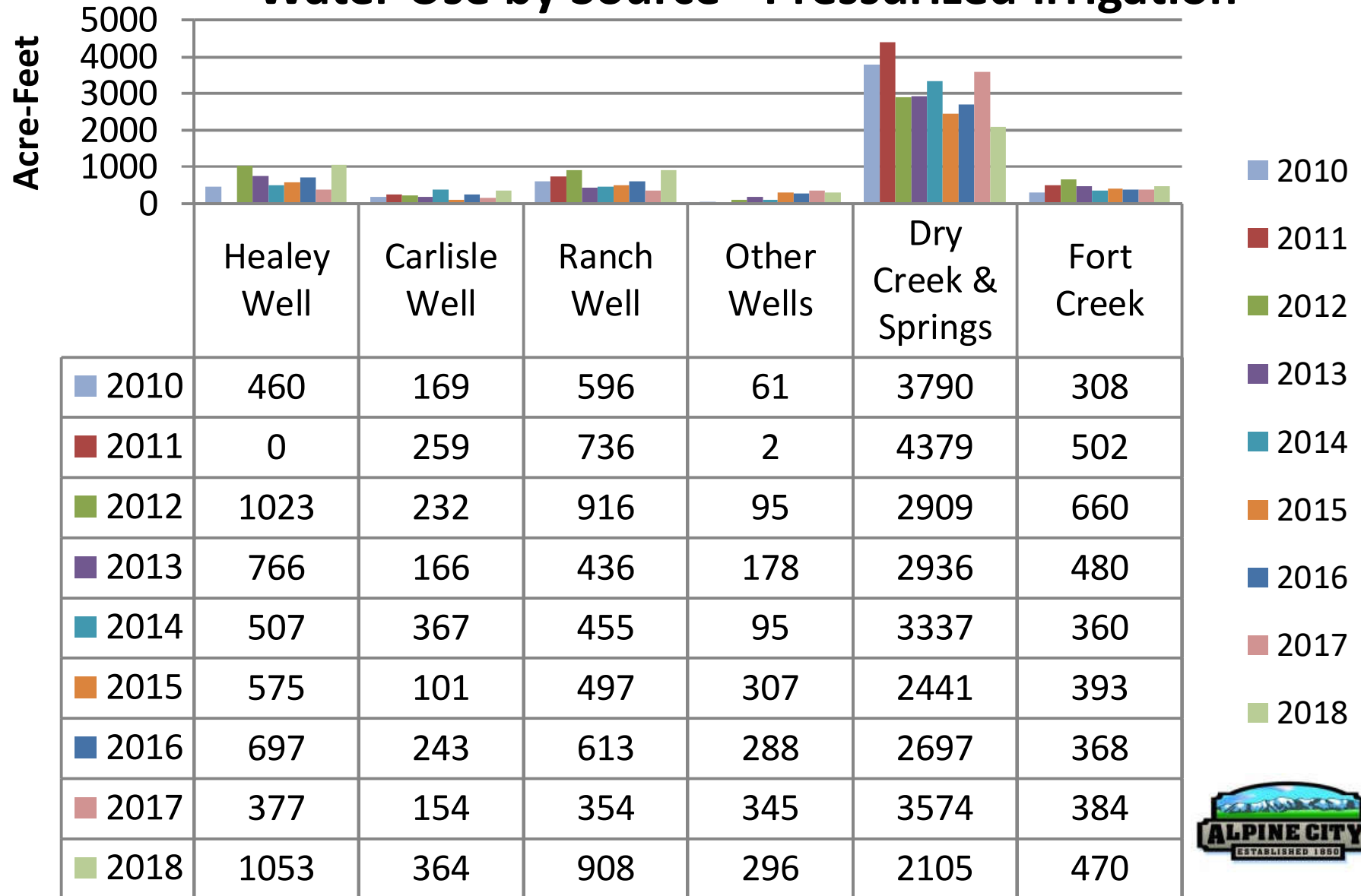
Total Water Use - Pressurized Irrigation



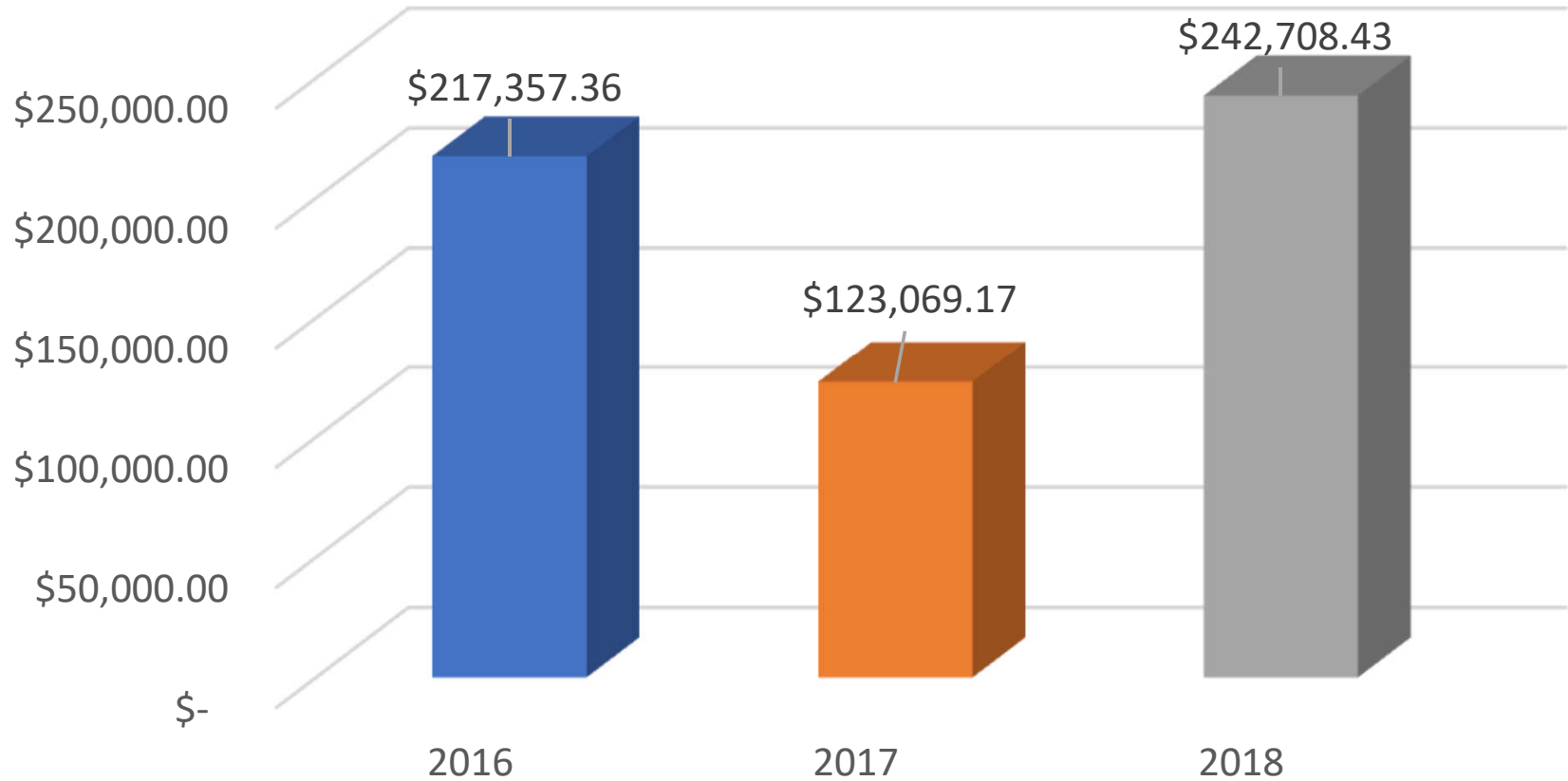
Water Use by Source - Pressurized Irrigation



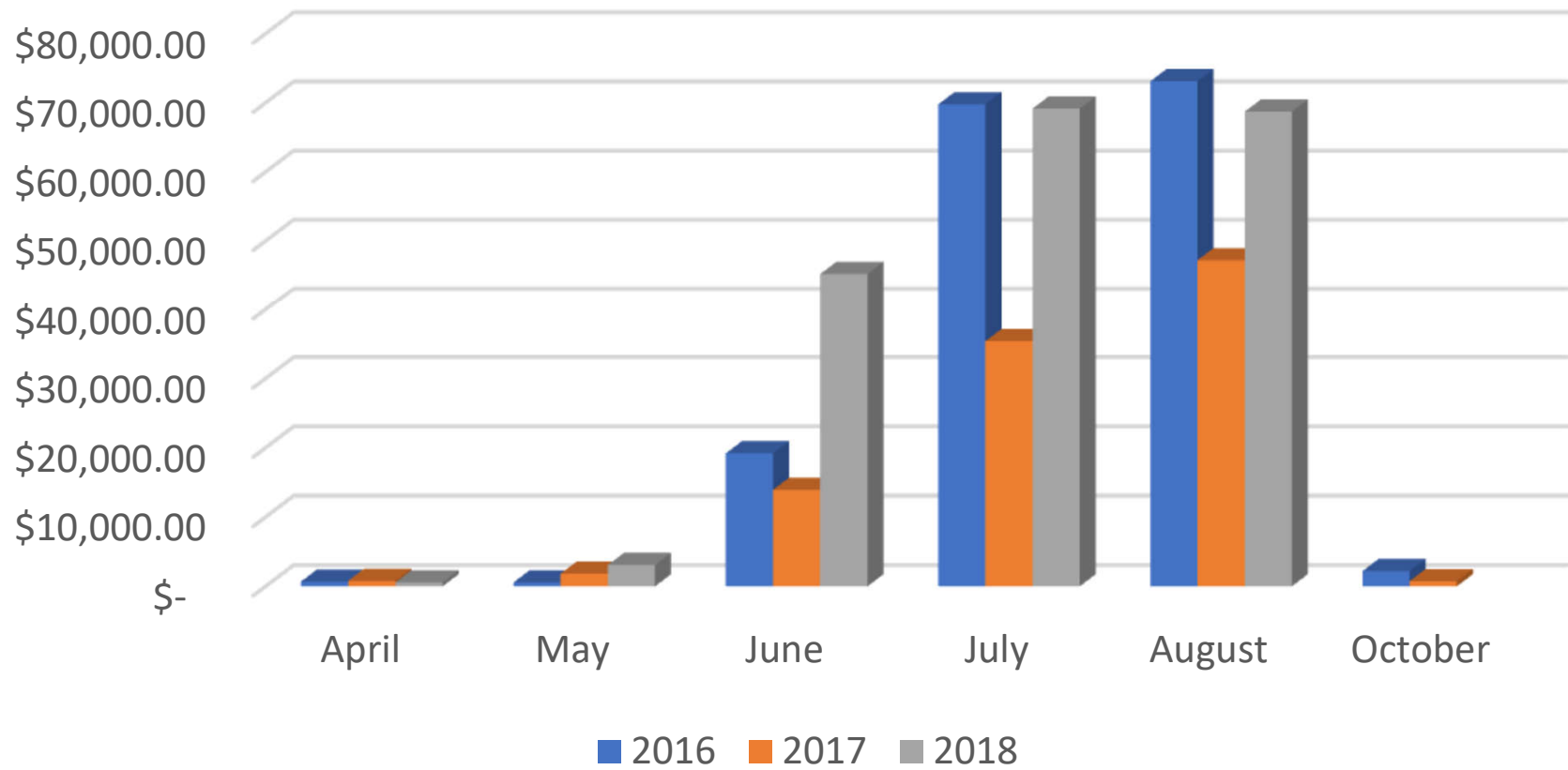
Water Use by Source - Pressurized Irrigation



Total Pumping Costs by Year



Pumping Costs by Month





**2019 ANNUAL MEETING SCHEDULE
FOR
ALPINE CITY, UTAH**

PLANNING COMMISSION MEETINGS for the 2019 calendar year are scheduled on the 1st and 3rd Tuesday of each month as follows unless otherwise indicated:

January 15	May 7	August 20
February 5	May 21	September 3
February 19	June 4	September 17
March 5	June 18	October 1
March 19	July 2	October 15
April 2	July 16	November 19
April 16	August 6	December 3

CITY COUNCIL MEETINGS for the 2019 calendar year are scheduled on the 2nd and 4th Tuesday of each month as follows unless otherwise indicated:

January 8	May 14	September 10
January 22	May 28	September 24
February 12	June 11	October 8
February 26	June 25	October 22
March 12	July 9	November 12
March 26	July 23	November 26
April 9	August 13	December 10
April 23	August 27	

All Planning Commission and City Council meetings will begin at 7:00 pm unless otherwise posted. Meetings are held at Alpine City Hall, 20 North Main, Alpine, Utah 84004.

Charmayne G. Warnock
City Recorder

THE PUBLIC IS INVITED TO ATTEND ALL PUBLIC CITY MEETINGS. If you need a special accommodation to participate in the meeting, please call the City Recorder's Office at 801-756-6347 ext. 4.

CERTIFICATION OF POSTING. The undersigned duly appointed recorder does hereby certify that the above agenda notice was posted in three public places within Alpine City limits. These public places being a bulletin board located inside City Hall at 20 North Main and located in the lobby of the Bank of American Fork, Alpine Branch, 133 S. Main, Alpine, UT; and the bulletin board located at The Junction, 400 S. Main, Alpine, UT. The above agenda notice was sent by e-mail to The Daily Herald located in Orem, UT and local newspapers circulated in Alpine, UT. This agenda is also available on the City's web site at www.alpinecity.org and on the Utah Public Meeting Notices website at www.utah.gov/pmn/index.html.

ALPINE CITY COUNCIL AGENDA

SUBJECT: Volkswagen Settlement – Grant Opportunity

FOR CONSIDERATION ON: 13 November 2018

PETITIONER: Staff

ACTION REQUESTED BY PETITIONER: Review possible funding opportunity for Electric Vehicle Supply Equipment.

BACKGROUND INFORMATION:

“The State of Utah is a beneficiary of over \$35 million from the Volkswagen (VW) Environmental Mitigation Trust, part of a settlement with VW for violations of the Clean Air Act (CAA).” The Utah Department of Environmental Quality is administering funding based on the settlement, with funding being broken down accordingly:

- 73.5% of funding for replacement/repowering of Class 4-8 Local Freight Trucks and Class 4-8 School Shuttle, or Transit Buses.
- 11% of funding for Light-Duty Zero Emission Vehicle Supply Equipment.
- 7% of funding for Diesel Emission Reduction Act (DERA) Option.
- 8.5% of funding for administrative costs.

Of the funding categories available, Alpine City may qualify for Light-Duty Zero Emission Vehicle Supply Equipment. In order to qualify for this funding an application would need to be submitted with the following information:

- Completed application with a proposed grant request (dollar amount).
- Cost-Share Commitment Letter.
- Site photos.
- Electric utility provider site evaluation.
- Site Approval Agreement.
- Vendor Bid (must include EVSE cost, installation cost, electrical system upgrades, operation and maintenance costs, and dates in which bid is valid).
- And Procurement Code Compliance.

Eligible equipment for funding includes Level 1, Level 2, and fast charging equipment. The equipment must be installed on government owned property that can feasibly support the proposed equipment. Up to 100% of the cost to purchase, install, and maintain EVSE will be covered if the equipment is made available to the public, and up to 60% of costs if equipment access is limited.

STAFF RECOMMENDATION:

Review and consider application for Electrical Vehicle Supply Equipment funding.

Utah's Selection of Eligible Mitigation Action Categories for NOx Mitigation

Utah's Selected Eligible Mitigation Action Categories With Focus on Government Fleets	
Eligible Mitigation Actions	Funding Percentages
Replacement or Repower of the Following:	
Class 8 Local Freight Trucks	73.5% (These categories are combined to optimize the VW Settlement. Final determinations will be based on projects received through the application process.)
Class 4-7 Local Freight Trucks	
Class 4-8 School, Shuttle, or Transit Buses	
Freight Switchers	0%
Airport Ground Support	0%
Forklifts > 8,000 lb. lift capacity (port handling equipment)	0%
Light-Duty Zero Emission Vehicle Supply Equipment	11%
Diesel Emission Reduction Act (DERA) Option	7%
Administrative Costs	8.5%
Total	100%

UDEQ's selection of EMA categories is based on the advisory committee's recommendations, public input, and UDEQ's goals:

- To achieve significant NOx reductions that work toward fully mitigating the excess lifetime NOx emissions from the non-compliant VW vehicles and contribute to the State's ongoing goal of reaching attainment of the NAAQS,
- To maximize the amount of emissions reductions for each dollar spent,
- To benefit areas in Utah that bear a disproportionate amount of the air pollution burden,
- To stimulate emerging vehicle technologies that result in long-term emissions benefits, and
- To provide economic and health benefits to the citizens of Utah.

73.5% for Class 4-8 Local Freight Trucks and School, Shuttle, and Transit Buses:

- Combining these categories allows for flexibility when selecting specific projects
- Represents half of the NOx emissions from on-road mobile sources in PM2.5 nonattainment areas
- Achieves NOx reductions from the top five most cost-effective EMA categories
- Targeting government-owned vehicles, allowing up to 50% funding, providing double benefit to taxpayers
- Providing higher incentive for all-electric

7% for the DERA Option:

- Allocates funding for other projects not limited to the EMA categories that are prescribed in the Trust (i.e. construction, agriculture, locomotives)
- Allows flexibility for funding NOx reduction projects that are relevant to fleet owners in Utah
- Provides an avenue for private fleet owners to participate
- Invests in a funding source that results in additional funding

11% for Light-Duty, Zero-Emissions-Vehicle Supply Equipment:

- - Recommended by advisory committee and received significant support from the public
 - Stimulates the deployment of emerging technologies that have long-term air quality benefits
 - Recognizes existing efforts statewide that provide various (and abundant) funding sources
 - Targets government-owned facilities, providing double benefits to taxpayers
 - Prioritizes facilities in nonattainment areas, near major transportation corridors, and allows public access

8.5% for Administrative Costs:

- Allowed up to 15%: Recognizes that effective implementation requires significant resources
- Recognizes that it's a long-term program
- Funds state resources without using taxpayer dollars



UTAH DEPARTMENT of
ENVIRONMENTAL QUALITY
**AIR
QUALITY**

VW Settlement



vw.utah.gov

Opportunities for Government Entities

Nearly 85% of the VW Settlement for Utah is allocated to government entities for:

- Replacing or repowering Class 4-8 local freight trucks
- Replacing or repowering Class 4-8 school buses, shuttle buses, or transit buses
- Purchasing, installing, and maintaining light-duty electric-vehicle supply equipment (EVSE)



Class 4-7 Local Freight Trucks

Class Four: 14,001 to 16,000 lbs.



City Delivery



Conventional Van



Landscape Utility



Large Walk In

Class Five: 16,001 to 19,500 lbs.



Bucket



City Delivery



Large Walk In

Class Six: 19,501 to 26,000 lbs.



Beverage



Rack



School Bus



Single Axle Van



Stake Body

Class Seven: 26,001 to 33,000 lbs.



City Transit Bus



Furniture



High Profile Semi



Home Fuel



Medium Semi Tractor



Refuse



Tow

Class 8 Local Freight Trucks

Class Eight: 33,001 lbs. & over



Cement Mixer



Dump



Fire Truck



Fuel



Heavy Semi Tractor



Refrigerated Van



Semi Sleeper



Tour Bus

Available Funding Amounts

Vehicle or Engine Replacements:

- Up to 50% of the cost for new diesel or alternative fuels
- Up to 55% for new vehicles or engines certified to the California Air Resources Board's (CARB) Optional Low-NO_x Standards
- Up to 65% for new all-electric replacement vehicles or engines
- Charging infrastructure may be included



Light-Duty, EVSE:

- Up to 100% of the cost to purchase, install, and maintain EVSEs available to the public at government-owned facilities
- Up to 60% of the cost to purchase, install, and maintain EVSEs available at a government workplace but not to the general public

Vehicle/Engine Replacement Projects

Minimum Requirements

- Vehicles/engines must be engine model years 1992-2006 and currently registered in the State of Utah.
- Vehicles/engines must be operable and have a minimum of three years remaining in their useful life at the time of replacement. Funding must be used to retire vehicles/engines sooner than they are regularly scheduled.
- Vehicles/engines being replaced must be scrapped or permanently disabled within 90 days of being replaced by drilling a three-inch-by-three-inch hole in the engine block and cutting the chassis rails on both sides.
- Replacement vehicles/engines must stay within the same vehicle class and operate in the same function and areas as the vehicle being replaced.



EVSE Projects

Minimum Requirements

- The facility where the light-duty EVSE is installed must be a government-owned property.
- Site evaluation must be conducted by electric utility provider and facility management agency showing that the project is feasible.



Criteria/Scoring

- **Cost-Per-Ton of NO_x Reductions: 50 points**
 - Vehicle/Engine Replacements
 - Vehicle Type
 - Engine Model Year
 - Annual Fuel Usage and Mileage
 - Remaining Useful Life
 - Amount of VW Settlement Funds Requested
 - EVSE
 - Usage (hours/day, days/year)
 - Charging Capacity (range-per-hour)
 - Amount of VW Settlement Funds Requested
- **Location: 30 points**
 - Priority given to non-attainment areas
- **Community Benefits: 20 points**

Application Information

- DAQ will begin accepting applications on Monday, October 1, 2018.
- Applications will be due by November 30, 2018.
- Incomplete applications and/or applications without required attachments will not be evaluated. Applications may not be revised or supplemental information provided after November 30, 2018.
- Successful applicants will have three years from the time of the award to complete projects.
- Future funding opportunities through the VW Settlement will depend on the number and amounts of successful projects that receive awards through this current funding opportunity.



Email Applications to vw@utah.gov

**Contacts: Lisa Burr: 801-536-4019, lburr@utah.gov
or**

Courtney Ehrlich: 801-536-4430, cehrlich@utah.gov

**For EVSE questions, contact
Mat Carlile: 801-536-4116, mcarlile@utah.gov**



UTAH DEPARTMENT of
ENVIRONMENTAL QUALITY
**AIR
QUALITY**

CT4000 Family

ChargePoint® Level 2 Commercial Charging Stations

The CT4000 family is the latest generation of ChargePoint commercial charging stations. Refined yet rugged, these stations set the industry standard for functionality and aesthetics.

The CT4000 full motion color LCD display instructs drivers and supports dynamic updates of custom branded videos and advertisements.

Intelligent power management options double the number of parking spaces served by allowing two charging ports to share a single circuit. Sites with single port EV stations can upgrade to dual port stations without requiring additional electrical services.

All CT4000 models offer one or two standard SAE J1772™ Level 2 charging ports with locking holsters, each port supplying up to 7.2kW. With this standard connector, ChargePoint level 2 stations can charge any EV.

Stations are available in bollard and wall mount configurations for easy installation anywhere. All stations are fully software upgradeable remotely over the air.

Stations come in both 6' and 8' tall models with 18' and 23' cords, respectively. With multiple options for size and cord reach, your station can service up to four parking spaces, reach all car models regardless of parking style or car sizes and increase the usability of your EV spots.

Driver Friendly User Interface

- + Instructional video shows how to use the station
- + Multi-language: English, French, Spanish
- + Touch button interface; works in rain, ice and with gloves
- + Backed by ChargePoint's world class 24/7 driver phone support

Easily Communicate with Your Drivers

Whether you're a retail establishment wanting to advertise your latest product, a workplace looking to communicate with employees or a municipality wanting to welcome visitors, ChargePoint's prominent LCD screen makes it easy to reach EV drivers:

- + Daylight readable, with auto brightness control
- + 640 X 480 resolution active matrix
- + Full motion 30fps video support
- + Upload up to 60 seconds of high quality video on a color LCD screen to individual stations as often as desired
- + Brand your charging stations to communicate with drivers
- + Instructional video in English, Spanish or French



Service Products and Support

ChargePoint offers world-class service products and support that help ensure quality of work, save time and money, protect your investment and enhance the productivity of your charging stations. From site planning to installation and setup, to ongoing care and management, when you choose ChargePoint, you're covered.

- + ChargePoint Configuration and Activation: customized setup and activation of your stations
- + ChargePoint Station Manager: ongoing and unlimited software tools to meet your changing needs
- + ChargePoint Assure: extended parts and labor warranty coverage for up to five additional years

Energy Measurement and Management

- + Real-time energy measurement
- + 15 minute interval recording
- + Time of Day (TOD) pricing
- + Load shed by percentage of running average or to fixed power output

Minimize Costs with Flexible Power Management Options

In the vast majority of applications, a full power configuration is the best choice for both station owners and drivers. However, when drivers are parked for a longer time, an intelligent, lower power output can save station owners considerable installation cost while still providing drivers a great charging experience. With flexible power options, station owners can meet the needs of drivers while lowering costs:

Power Select (Patent Pending)

- + Allows for a lower capacity (less than 40A) circuit to power each port
- + Cuts installation costs by reducing the cost or even avoiding the need to upgrade panels or transformers

Power Sharing

- + Dynamically share one 40A, 30A or 20A circuit between two parking spaces
- + Doubles the number of parking spots served while reducing installation and operating costs
- + Allows station owners to upgrade a single port station to dual port to serve more drivers with no electrical upgrade

Clean Cord Technology

- + Keep charging cords off the ground
- + Standard on all models
- + Ultra-reliable second-generation gravity operated mechanism
- + Flexible over entire -40°F to +122°F product temperature range

CT4000 stations come with 18' or 23' cords to increase the usability of your charging spots, on 6' and 8' tall models respectively.

Ultra-reliable second-generation gravity operated mechanism.

18' and 23' cords to reach all car models and serve more parking spaces.

World-class 24/7 driver phone support.

Instructional video shows how to use the station. Multi-language charging instructions, giving drivers the choice of English, French or Spanish.

Driver interaction is supported in any weather by five rugged, back-lit buttons with audio feedback.

Strong and rugged design materials built to withstand the elements.



CT4021

Dual-port bollard charging station with 18' charging cables. Standard *EV Charging Only* sign without optional custom branding.

Promote Your Brand and Business

Having your stations installed in a visible location makes a bold statement about your business' commitment to sustainability and shows that you care about your customers. ChargePoint CT4000 stations are built for customization so you can conveniently promote your brand as well. With custom signage and video you can:

- + Increase brand recognition
- + Attract EV drivers by making sure your stations are highly visible
- + Ensure EV charging installations are consistent with the look and feel of your brand
- + Differentiate your stations from standard ChargePoint stations to make them easily identifiable by your driver base



Easily customizable branding area.
All stations come with *EV Charging Only* sign, which can be replaced with your custom signage.

5.7" color LCD display for customizable video content.

Upload up to 60 seconds of high quality video to individual stations as often as desired.

Daylight readable with auto brightness control.

OPTIONAL:
Additional customizable branding areas.
All stations have standard extrusions to hold your custom signage.

Artwork templates and material specifications are conveniently downloadable from chargepoint.com

Branded CT4021
Shown with optional branding on bollard.
18' cords on 6' model.



Branded CT4025
Shown with optional branding on back.
23' cords on 8' model.

Bollard Charging Stations

CT4011



CT4021



CT4025



Wall Mount Charging Stations

CT4013



CT4023






CT4027



Learn More

To learn more about ChargePoint's CT4000 Family:

-  Visit chargepoint.com/ct4000
-  Call +1.408.705.1992
-  Email sales@chargepoint.com




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Listed by Underwriters Laboratories Inc. 

Volkswagen Settlement

Introduction

The State of Utah is a beneficiary of over \$35 million from the Volkswagen (VW) Environmental Mitigation Trust, part of a settlement with VW for violations of the Clean Air Act (CAA). The Governor has designated the Utah Department of Environmental Quality (DEQ) as the lead agency to administer this funding, including the development of an Environmental Mitigation Plan (EMP). The EMP will provide a high-level overview of which eligible vehicle/equipment categories the State of Utah will fund through the settlement to reduce the excess nitrogen oxide (NOx) emissions from the VW, Audi, and Porsche vehicles that were not in compliance with the CAA. DEQ will use this website to communicate with the public on EMP development.

Statement from the Utah Department of Environmental Quality's Executive Director, Alan Matheson

“... Much of the area along the Wasatch Front has been reclassified by the Environmental Protection Agency (EPA) from moderate to serious nonattainment for 24-hour particulate matter (PM) 2.5 ... Therefore it is important that the use of this funding results in significant and measurable reductions of NOx emissions (precursor emissions to PM) and supports activities that will have long-term air quality benefits ...”

Background

Volkswagen (VW) has admitted to secretly installing illegal software on:

- Approximately 500,000 vehicles, engine model years 2009-2015, with 2.0-liter (<https://www.epa.gov/sites/production/files/2016-10/documents/amended20literpartial-cd.pdf>) diesel engines
- Approximately 80,000 vehicles, engine model years 2009-2016, with 3.0-liter (<https://www.epa.gov/sites/production/files/2016-12/documents/30literpartialconsentdecree.pdf>) diesel engines

The software “cheats” engine certification and emissions testing by producing results that comply with federal law during testing, but emit up to 40 times the allowable emissions of nitrogen oxides (NOx) under normal driving conditions.

To settle these violations, VW agreed to pay \$15.7 billion. The settlement (<https://www.epa.gov/sites/production/files/2016-10/documents/amended20literpartial-cd.pdf>) has three components:

- Buyback or emission control modifications on at least 85 percent of the affected vehicles (<https://www.vwcourtsettlement.com/en/>).
 - \$10.8 billion
- Zero-Emission-Vehicle Investment (<https://www.vwcourtsettlement.com/en/docs/DOJ/Approved%20Appendix%20C.pdf>)

- \$2 billion to promote the use of zero-emission vehicles and infrastructure
- Environmental Mitigation Trust
(<https://www.vwcourtsettlement.com/en/docs/DOJ/Approved%20Appendix%20D.pdf>)
 - \$2.9 billion intended for NOx reduction projects to compensate for the excess NOx emissions from the 2.0-liter and 3.0-liter subject vehicles

Impact in Utah

UDEQ estimates the lifetime NOx emitted by the non-compliant vehicles to be between 351-1,556 tons of NOx over the span of time they were operating in Utah. Approximately 70 percent of the affected vehicles are registered in the seven counties designated as nonattainment of the National Ambient Air Quality Standards for PM2.5 (Box Elder, Cache, Davis, Salt Lake, Tooele, Utah, and Weber).

- NOx emissions inventory data for the State's nonattainment areas (<https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2017-012048.pdf>).

Approximately 7,000 vehicles in Utah were affected by the cheat device on VW vehicles

- 2.0-liter diesel VW vehicles (engine-model years 2009-2015): 5,983 statewide
- 3.0-liter diesel VW, Audi, or Porsche vehicles (engine-model years 2009-2016): 1,030 statewide

Utah's total allocation from the settlement is \$35,177,506.

Utah's Selection of Eligible Mitigation Action Categories for NOx Mitigation

Utah's Selected Eligible Mitigation Action Categories With Focus on Government Fleets

Eligible Mitigation Actions	Funding Percentages
Replacement or Repower of the Following:	
Class 8 Local Freight Trucks	73.5% (These categories are combined to optimize the VW Settlement. Final determinations will be based on projects received through the application process.)
Class 4-7 Local Freight Trucks	
Class 4-8 School, Shuttle, or Transit Buses	
Freight Switchers	0%
Airport Ground Support	0%
Forklifts > 8,000 lb. lift capacity (port handling equipment)	0%
Light-Duty Zero Emission Vehicle Supply Equipment	11%
Diesel Emission Reduction Act (DERA) Option	7%

Administrative Costs	8.5%
Total	100%

Utah's Environmental Mitigation Plan

All VW funds will be used for public fleets, except for projects funded through the DERA category.

- Download the plan [_ \(https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-006822.pdf\)](https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-006822.pdf) (4.2 MB)

UDEQ's selection of EMA categories is based on the advisory committee's recommendations, public input, and UDEQ's goals:

- To achieve significant NOx reductions that work toward fully mitigating the excess lifetime NOx emissions from the non-compliant VW vehicles and contribute to the State's ongoing goal of reaching attainment of the NAAQS,
- To maximize the amount of emissions reductions for each dollar spent,
- To benefit areas in Utah that bear a disproportionate amount of the air pollution burden,
- To stimulate emerging vehicle technologies that result in long-term emissions benefits, and
- To provide economic and health benefits to the citizens of Utah.

73.5% for Class 4-8 Local Freight Trucks and School, Shuttle, and Transit Buses:

- Combining these categories allows for flexibility when selecting specific projects
- Represents half of the NOx emissions from on-road mobile sources in PM2.5 nonattainment areas
- Achieves NOx reductions from the top five most cost-effective EMA categories
- Targeting government-owned vehicles, allowing up to 50% funding, providing double benefit to taxpayers
- Providing higher incentive for all-electric

7% for the DERA Option:

- Allocates funding for other projects not limited to the EMA categories that are prescribed in the Trust (i.e. construction, agriculture, locomotives)
- Allows flexibility for funding NOx reduction projects that are relevant to fleet owners in Utah
- Provides an avenue for private fleet owners to participate
- Invests in a funding source that results in additional funding

11% for Light-Duty, Zero-Emissions-Vehicle Supply Equipment:

- Recommended by advisory committee and received significant support from the public
- Stimulates the deployment of emerging technologies that have long-term air quality benefits
- Recognizes existing efforts statewide that provide various (and abundant) funding sources
- Targets government-owned facilities, providing double benefits to taxpayers
- Prioritizes facilities in nonattainment areas, near major transportation corridors, and allows public access

8.5% for Administrative Costs:

- Allowed up to 15%: Recognizes that effective implementation requires significant resources
- Recognizes that it's a long-term program
- Funds state resources without using taxpayer dollars

DEQ's Cost-Per-Ton Analysis of Eligible Vehicles/Equipment Replacement Projects

Stakeholder & Public Input Process

Application Process for Government Entities

Application period is open from October 1, 2018, until November 30, 2018. Applications will not be evaluated prior to closing date and may not be revised or supplemental information provided after November 30, 2018.


- Vehicle/Engine Replacement Application [_\(https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-013425.pdf\)](https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-013425.pdf) (354 KB)
 - Fleet Description Form [_\(https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-013424.xlsx\)](https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-013424.xlsx) (712 KB)
- Light-Duty EVSE Application [_\(https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-013423.pdf\)](https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-013423.pdf) (172 KB)

Eligibility

Entities: Government entities as defined in Utah Code § 63G-7-102(4).

[_\(https://le.utah.gov/xcode/Title63G/Chapter7/63G-7-S102.html\)](https://le.utah.gov/xcode/Title63G/Chapter7/63G-7-S102.html), and federal government agencies.

Eligible Equipment (Application forms listed in next section)

- Vehicle or engine replacements of Class 4-8 local freight trucks, school buses, shuttle buses, and/or transit buses  (323 KB), engine model years 1992-2006*. VW funding is available for:
 - Up to 50% of the cost for new diesel or alternative fueled vehicles or engines
 - Up to 55% for new vehicles or engines certified to the California Air Resources Board's (CARB) Optional Low-NOx Standards
 - Up to 65% for new all-electric replacement vehicles or engines
 - Charging infrastructure may be included

***Note:** Engine model years 1992-2006 vehicles/engines must be operable with a minimum of three years remaining in their useful life.

- Light-duty, electric-vehicle supply equipment (EVSE), including Level 1, Level 2, and fast charging equipment. Funds may be used by government entities to purchase, install, and maintain eligible light-duty EVSE on government-owned property. VW funding is available for:

- Up to 100% of the cost to purchase, install, and maintain EVSEs available to the public at government-owned facilities
- Up to 60% of the cost to purchase, install, and maintain EVSEs available at a government workplace but not available to the general public

How to Apply

Email applications and supplemental documents to vw@utah.gov by November 30, 2018, at 5:00 p.m.






Required Submittals

Vehicle/Engine Replacement Projects

- Vehicle/Engine Replacement Application (<https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-013425.pdf>) (354 KB)
- Fleet Description Form (<https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-013424.xlsx>) (712 KB)
- A clear, legible photo of the engine label that captures the engine make, model, year, horsepower, displacement, serial number, and engine family name (<https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-013422.pdf>) (388 KB)
- A clear, legible photo of the vehicle identification number (VIN) plate that includes VIN and gross vehicle weight rating (GVWR) for each vehicle proposed for replacement or engine replacement (<https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-013422.pdf>) (388 KB)

Light-Duty EVSE Projects

- Light-Duty EVSE Application (<https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2018-013423.pdf>) (71 KB)
- **Cost-Share Commitment Letter:** If applicable, a cost-share commitment letter is required from each source of funding for the project. The letter must specify the budget year in which the cost-share funding will be available. The cost-share commitment letter shall be signed by an individual legally authorized to commit funds on behalf of the governmental entity. If the requesting organization is a school, a cost-share commitment letter must be signed by the district superintendent or college/university president.
- **Site Photos:** Photos of proposed project site and/or locations with captions. Provide a clear aerial image identifying the proposed location and distance from major traffic corridors and other businesses.
- **Electric Utility Provider Site Evaluation:** A signed and dated statement from the electric utility provider certifying that it has reviewed your EVSE project and there is sufficient electrical load to support the proposed charging equipment.
 - Rocky Mountain Power customers should contact Shawn Grant at 801-220-4196 or shawn.grant@pacificorp.com. Other customers should contact their electric utility provider.

- **Site Approval Agreement:** Documentation from the facility management agency that: 1) certifies an authorized representative is aware of the project and agrees that the project is feasible; 2) an electrical panel capacity review has been completed; 3) provides detail as to whether any system upgrades are necessary to support the proposed project, and if so, includes the required upgrades; and 4) will operate and maintain the EVSE for a minimum of 5 years.
- **Vendor Bid(s):** A formal bid prepared by a qualified vendor that includes, at a minimum, the EVSE cost, installation cost, electrical system upgrades, operation and maintenance (O and M) costs, and dates in which the bid is valid. The following vendors are currently on the State of Utah Approved Vendor List:
 - Lillypad EV LLC (Contract #AR2840) Keith Anderson 913-269-2453 email keith.anderson@lilypadev.com 
 - National Car Charging LLC (Contact #AR2841) Jim Burness 303-437-4947 email jburness@nationalcarcharging.com 
 - The Electric Highway Co (Contract #AR2839) Todd Ritter 801-881-7610 email toddr@electrichighwy.com 
 - Verdek LLC (Contract #AR2842) Kathy Pitts 720-663-1396 or Guy Mannino 203-401-6477 email kpitts@verdek.com 
 - Video Voice Data Communications (Contract #AR2843) Marc Sobelman 602-819-3505 email marc.sobelman@vvdcomm.net 
- **Procurement Code Compliance:** Documentation that the governmental entity obtained the submitted vendor bid, whether a State of Utah Approved Vendor or other vendor, in compliance with the Utah Procurement Code, Utah Code Title 63G, Chapter 6a, and any local procurement rules.

Updates

If you represent a public entity with a government-owned fleet, please sign up below to be notified about when the Request for Applications process opens.

Utah's Diesel-Emissions-Reduction Accomplishments

Utah has been making efforts to reduce emissions from heavy-duty diesel vehicles and equipment for nearly a decade, partnering with businesses, government entities, and other organizations to upgrade fleets with cleaner alternatives. The Volkswagen (VW) Settlement will assist DEQ in continuing these efforts.

- [Utah Clean Diesel Program](https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2017-012044.pdf) (<https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/vw-settlement/DAQ-2017-012044.pdf>)
- Governor Herbert has allocated \$7.87 million for the replacement of diesel school buses from a separate 2016 partial settlement for VW violations of unfair trade, deceptive acts, and consumer protection laws.

Other Resources

- [VW's Official Informational Website](https://www.vwcourtsettlement.com/en/) (<https://www.vwcourtsettlement.com/en/>)
- [VW's ZEV Investment](https://www.electrifyamerica.com/) (<https://www.electrifyamerica.com/>)

- VW's information about its investment in ZEV, per Appendix C of VW Settlement (<https://www.vwcourtsettlement.com/en/docs/DOJ/Approved%20Appendix%20C.pdf>)
- VW Information from Federal Trade Commission (<https://www.ftc.gov/enforcement/cases-proceedings/refunds/volkswagen-settlement>).
- Court Website (<http://www.cand.uscourts.gov/crb/vwmdl>). (access to key documents)
- EPA Volkswagen Clean Air Act Civil Settlement (<https://www.epa.gov/enforcement/volkswagen-clean-air-act-civil-settlement>).
- U.S. Department of Justice (<https://www.justice.gov/opa/pr/volkswagen-ag-agrees-plead-guilty-and-pay-43-billion-criminal-and-civil-penalties-six>) (criminal settlement)
- Utah Office of the Attorney General's VW Information (<https://attorneygeneral.utah.gov/featured-content/utah-ag-reyes-announces-state-federal-and-consumer-multi-billion-settlement-agreements-with-volkswagen>).

Contact


Lisa Burr 

Division of Air Quality
(801) 536-4000

Courtney Ehrlich 

Division of Air Quality
(801) 536-4430

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195 North 1950 West, Salt Lake City, UT 84116

 Office: (801) 536-4400

 Environmental Incidents (<https://deq.utah.gov/general/report-an-incident>): (801) 536-4123

State of Utah VW Settlement 2018 Electric Vehicle Charging Infrastructure Grant Application

Entity Name:			
Contact Person:			
Phone Number:	Office:	Cell:	
Address:	Street:		
	City:	State:	Zip Code:
Email:			
Requested Grant Amount:	\$		
Date Submitted:			

INTRODUCTION

The Utah Division of Air Quality (DAQ), a division within the Utah Department of Environmental Quality (DEQ), is soliciting applications from government entities¹ for light-duty, electric-vehicle supply equipment (EVSE) projects in an effort to mitigate the excess nitrogen oxides (NOx) emissions resulting from Volkswagen Companies'² (VW) admitted violations of the Clean Air Act.

HOW TO APPLY

Step 1: Complete this application and provide all supplemental documents listed on the supplemental document checklist. Please complete the application, answering all fields in the application form as thoroughly as possible. The application and supplemental material will assist DEQ in evaluating the project. DEQ may contact you for further information, so please provide current contact information. Incomplete applications will not be reviewed.

¹ "Governmental entity" means the state and its political subdivisions. "Political subdivision" means any county, city, town, school district, community reinvestment agency, special improvement or taxing district, local district, special service district, an entity created by an interlocal agreement adopted under [Title 11, Chapter 13, Interlocal Cooperation Act](#), or other governmental subdivision or public corporation.

² Volkswagen AG, Audi AG, Volkswagen Group of America, Inc., Volkswagen Group of America Chattanooga Operations, LLC, Dr. Ing. H.c. F. Porsche AG and Porsche Cars North America, Inc. (collectively "Volkswagen Companies").

Step 2: Submit the completed application form and required attachments via email to vw@utah.gov by 5:00 p.m. November 30, 2018.

Required Attachments:

- **Cost-Share Commitment Letter:** If applicable, a cost-share commitment letter is required from each source of funding for the project. The letter must specify the budget year in which the cost-share funding will be available. The cost-share commitment letter shall be signed by an individual legally authorized to commit funds on behalf of the governmental entity. If the requesting organization is a school, a cost-share commitment letter must be signed by the district superintendent or college/university president.
- **Site Photos:** Photos of proposed project site and/or locations with captions. Provide a clear aerial image identifying the proposed location and distance from major traffic corridors and other businesses.
- **Electric Utility Provider Site Evaluation:** A signed and dated statement from the electric utility provider certifying that it has reviewed your EVSE project and there is sufficient electrical load to support the proposed charging equipment³.
- **Site Approval Agreement:** Documentation from the facility management agency that: 1) certifies an authorized representative is aware of the project and agrees that the project is feasible; 2) an electrical panel capacity review has been completed; 3) provides detail as to whether any system upgrades are necessary to support the proposed project, and if so, includes the required upgrades; and 4) will operate and maintain the EVSE for a minimum of 5 years.
- **Vendor Bid(s):** A formal bid prepared by a qualified vendor that includes, at a minimum, the EVSE cost, installation cost, electrical system upgrades, operation and maintenance (O and M) costs, and dates in which the bid is valid. The following vendors are currently on the State of Utah Approved Vendor List:
 - Lillypad EV LLC (Contract #AR2840) Keith Anderson 913-269-2453 email keith.anderson@lilypadev.com
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 - Verdek LLC (Contract #AR2842) Kathy Pitts 720-663-1396 or Guy Mannino 203-401-6477 email kpitts@verdek.com
 - Video Voice Data Communications (Contract #AR2843) Marc Sobelman 602-819-3505 email marc.sobelman@vvdcomm.net
- **Procurement Code Compliance:** Documentation that the governmental entity obtained the submitted vendor bid, whether a State of Utah Approved Vendor or other vendor, in compliance with the Utah Procurement Code, Utah Code Title 63G, Chapter 6a, and any local procurement rules.

³ Rocky Mountain Power customers should contact Shawn Grant at 801-220-4196 or shawn.grant@pacificorp.com. Other customers should contact their electric utility provider.

Contact:

Questions about the funding award, the application, and the funding process should be directed to Mat Carlile at 801-536-4116 or vw@utah.gov.

ELIGIBILITY

Entities: Government entities¹ as defined in Utah Code § 63G-7-102(4) and federal government agencies.

Eligible Equipment: Light-duty EVSE including Level 1, Level 2, and fast charging equipment. Funds may be used by government entities to purchase, install, and maintain⁴ eligible light-duty EVSE on government-owned property.

Eligible Funding:

- Up to 100% of the cost to purchase, install, and maintain eligible light-duty, EVSE that will be available to the public at a government-owned property.
- Up to 60% of the cost to purchase, install, and maintain EVSE that is available at a workplace but not to the general public.

MINIMUM REQUIREMENTS

Each proposed project must meet the following minimum criteria:

- The facility where the light-duty EVSE is to be installed must be a government-owned property.
- Proposed projects must include proof that the electric utility provider and facility management agency has reviewed the project and determined that it is feasible to operate and maintain the proposed EVSE.

ADDITIONAL INFORMATION

- The DAQ may elect to partially fund projects.
- Successful applicants must agree to the terms of a separately executed VW Funding Agreement.
- Successful applicants will have up to three years after a VW Funding Agreement is executed to complete projects.

⁴ Maintenance costs can be included by purchasing an extended warranty through the EVSE manufacturer. VW funds may be used to purchase extended warranty coverage for up to five years.

CRITERIA/SCORING

Applications will be scored using the following criteria and point structure:

Cost-Per-Ton of NO_x Reductions: 50 points

The DAQ will calculate and evaluate costs-per-ton of NO_x reduced from EVSE projects by evaluating the EVSE's usage, charging capacity (range-per-hour), and the dollar amount of VW funds requested. This evaluation will account for how well the project is leveraged with other funding sources.

Location: 30 points

Projects will be evaluated based on the location of the proposed light-duty EVSE. Higher scores will be given for projects that benefit Utah's nonattainment areas.⁵ Proximity to businesses, major traffic corridors, and other existing or planned EVSE's will also be evaluated.

Community Benefits: 20 points

Other community benefits such as supporting large-scale, collaborative initiatives or emerging transportation solutions, and/or provide added environmental benefits will also be taken into consideration when evaluating projects.

⁵ Nonattainment designation is determined by the EPA when an area or areas within a state persistently exceed the National Ambient Air Quality Standards. The EPA has designated "nonattainment areas" for Particulate Matter having an aerodynamic diameter of 2.5 microns (µm) or less (PM_{2.5}) and ozone. The nonattainment areas in the State of Utah are Cache, portions of Box Elder, Davis, Duchesne, Salt Lake, portions of Tooele, Uintah, Utah, and portions of Weber counties.

Please provide an answer for each question. Incomplete applications will not be evaluated.

Project Summary

1) Provide a brief summary of the proposed EVSE project. Include a description of the location, goals, partners, how the project ties into the overall mission of your organization, and other relevant information about the project.

2) Provide a detailed timeline of the project from start to finish.

Cost per Ton NO_x Reductions (50 Points)

3) Fill out the table below for each proposed type of EVSE included in your project.

	Quantity	Hours/day	Days/year	Fee to users? (yes/no)
Level 1				
EVSE available to public (up to 100% funding)				
Workplace EVSE not available to public (up to 60% funding)				
Fleet EVSE not available to public (up to 60% funding)				
Level 2				
EVSE available to public (up to 100% funding)				
Workplace EVSE not available to public (up to 60% funding)				
Fleet EVSE not available to public (up to 60% funding)				
DC Fast Chargers				
Open to public (100% funding)				
Workplace not available to public (60% funding)				
Fleet EVSE not available to public (up to 60% funding)				
Totals				

4) If workplace EVSE is included in your project, how many EVs are currently at your proposed facility and what is your future demand?

5) Provide a description of how hours/day and future demand were determined.

6) What is the number of employees at the facility and the number of visitors on average per day?
Please enter average number in corresponding days.

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
# of employees at facility							
# of visitors							

7) Please explain how you determined number of visitors per day.

Location (30 points)

8) Provide the address of where the EVSE project will be installed:

Address _____

City _____ Zip _____

9) Please provide any relevant information regarding proximity to other traffic corridors, businesses, etc.

10) Why is this location chosen?

Community Benefits (20 points)

11) Is this project part of a large-scale, collaborative initiative? If so, please provide a description of the initiative and how this project promotes and/or enhances the initiative.

12) Please describe any added environmental and/or community benefits of the proposed project.

Additional Information:

Budget

13) Using the table below, please provide a detailed budget for the proposed project.

Project Component	Description	VW's Share (\$)	Entity's Share (\$)	Other sources (\$)	Total Cost (\$)
Equipment	Level 1 Public place, workplace, or fleet, available to public (up to 100%)				
	Level 1 Workplace, not available to public (up to 60%)				
	Level 1 Fleet, not available to public (up to 60%)				
	Level 2 Public place, workplace, or fleet, available to public (up to 100%)				
	Level 2 Workplace, not available to public (up to 60%)				
	Level 2 Fleet, not available to public (up to 60%)				
	DC Fast Chargers Public place, workplace, or fleet, available to public (up to 100%)				
	DC Fast Chargers Workplace, not available to public (up to 60%)				
	DC Fast ChargersFleet, not available to public (up to 60%)				

Installation (labor, equipment, etc.)				
Electrical System Upgrades (if applicable)				
Warranty (or maintenance)				
Other EVSE components (such as cloud service, please itemize)				
Engineering and design costs (not yet incurred)				
Real estate purchase or rent, if applicable				
Capital costs (e.g. construction of buildings, parking facilities, etc.)				
General maintenance (e.g. maintenance other than EV charging equipment)				
Other (please itemize)				
Totals				

Total Eligible Project Costs	Amount of VW Settlement Funding Requested	VW Settlement Funding Requested as % of Total Eligible Project Costs
\$	\$	%

Anticipated Additional Project Funding			
Source	Amount	% of total project	Secured or Pending
	\$	%	
	\$	%	
Describe the status and timeline for any 'pending' funding sources			
Click here to enter text.			

14) Describe the financial structure of the project. Include who will pay for and own the project, who will receive the financial benefits, and who will pay for maintenance and repairs.

15) Describe efforts to ensure that the proposed budget represents the maximum value for the cost of the project. Explain any significant price deviations from industry norms and whether you received multiple bids from competitive contractors.

16) Identify potential challenges and risks to completing the project within budget and your strategy for mitigating those risks.

17) What operations and maintenance (O&M) activities are required over the project life? Describe the long-term O&M plan, including sources of funding to implement the plan.

Certification

I certify as if I signed my name that, under penalty of perjury:

- i. I am duly authorized to request VW eligible funding, as described in this application, on behalf of the named governmental entity and to submit all necessary information and documentation requested;
- ii. that the information I provided in this application and accompanying documents is true and correct, to the best of my knowledge;
- iii. that the entity named in this application is a governmental entity as defined in Utah Code § 63G-7-102(4);
- iv. I acknowledge on behalf of the named entity the requirements and conditions specified in this application;
- v. I acknowledge on behalf of the named entity that approved projects must meet all eligibility requirements listed in the Utah VW Environmental Mitigation Plan;
- vi. I acknowledge on behalf of the named entity that in order for the requested EVSE to be funded, the named entity must provide all required information and pre-approved projects are not guaranteed reimbursement unless the entity complies with all terms specified in a separately executed VW Funding Agreement, including accordance with the approved work plan and specified timeline;
- vii. I acknowledge on behalf of the named entity that the approved EVSE must be completed within three years after executing the VW Funding Agreement in order to be reimbursed;
- viii. I acknowledge on behalf of the named entity that upon notification of award, an individual authorized to execute the VW Funding Agreement must sign and return the agreement within thirty (30) calendar days upon notification of an award and if the Agreement is not signed and timely returned, the DEQ may terminate the award;
- ix. I acknowledge on behalf of the named entity that data gathered by EVSE will be made available to DEQ; and
- x. I acknowledge that any and all costs incurred to complete this application and meet the terms of the VW Funding Agreement, are the responsibility of the named entity.

Applicant Name (print)

Applicant Signature

Date

Applicant Title

ALPINE CITY COUNCIL AGENDA

SUBJECT: Alpine City Tree Selection Guide Book

FOR CONSIDERATION ON: 13 November 2018

PETITIONER: Staff

ACTION REQUESTED BY PETITIONER: Review and approve Tree Selection Guide Book.

BACKGROUND INFORMATION:

Jeremy Ainsworth and the PKJ Design Group have prepared a tree selection guide for Alpine City that is intended help residents select trees that will comply with City standards.

Reasons that prompted the creation of the tree selection guide include:

- The City spends \$10,000-20,000 on sidewalk and curb repair each year.
- Sight-triangle violations and complaints are a consistent problem.
- Complaints from residents of trees hanging over and blocking sidewalks.
- Trees hanging over roadways blocking construction, fire, school and City vehicles.

Th tree selection guide is something that could easily be referenced on all building permits and on the City website as an online resource. The guide makes it easy for citizens to select the right tree for the correct location and avoid the issues that come from planting the wrong type of tree in the wrong location.

STAFF RECOMMENDATION:

Review and consider approving the proposed Tree Selection Guide Book.



TREE GUIDE

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TREE GUIDE



Why select the right tree?

The purpose of this Street Tree Selection Guide is to provide specialized information about each tree and their specific properties for different areas of use and planting around Alpine, Utah. Trees are a very important component to our city. Trees clean the air and cool the environment around our homes and businesses. Trees increase property values and provide a natural beauty in our city, which harbors a great quality of life for all of Alpine's residents.

Tips for Producing a Tree Healthy City

This Guide Book will help you answer some of these important questions;

Q: What is the use for the tree?

A: Aesthetics, Screening, Shade

Q: What is the character of the tree at maturity?

A: Height, Width, Shape

Q: What are the environmental conditions?

A: Full Sun, Partial Sun, Type of Soil

Q: What overhead and underground utilities are near planting location?

A: Power, Water, Sewer, Gas, Telephone, Fiber

Learn how to select the correct tree

The trees recommended in this guide are tolerant of local temperatures and have qualities to be a great tree.



"PLAN BEFORE YOU PLANT"

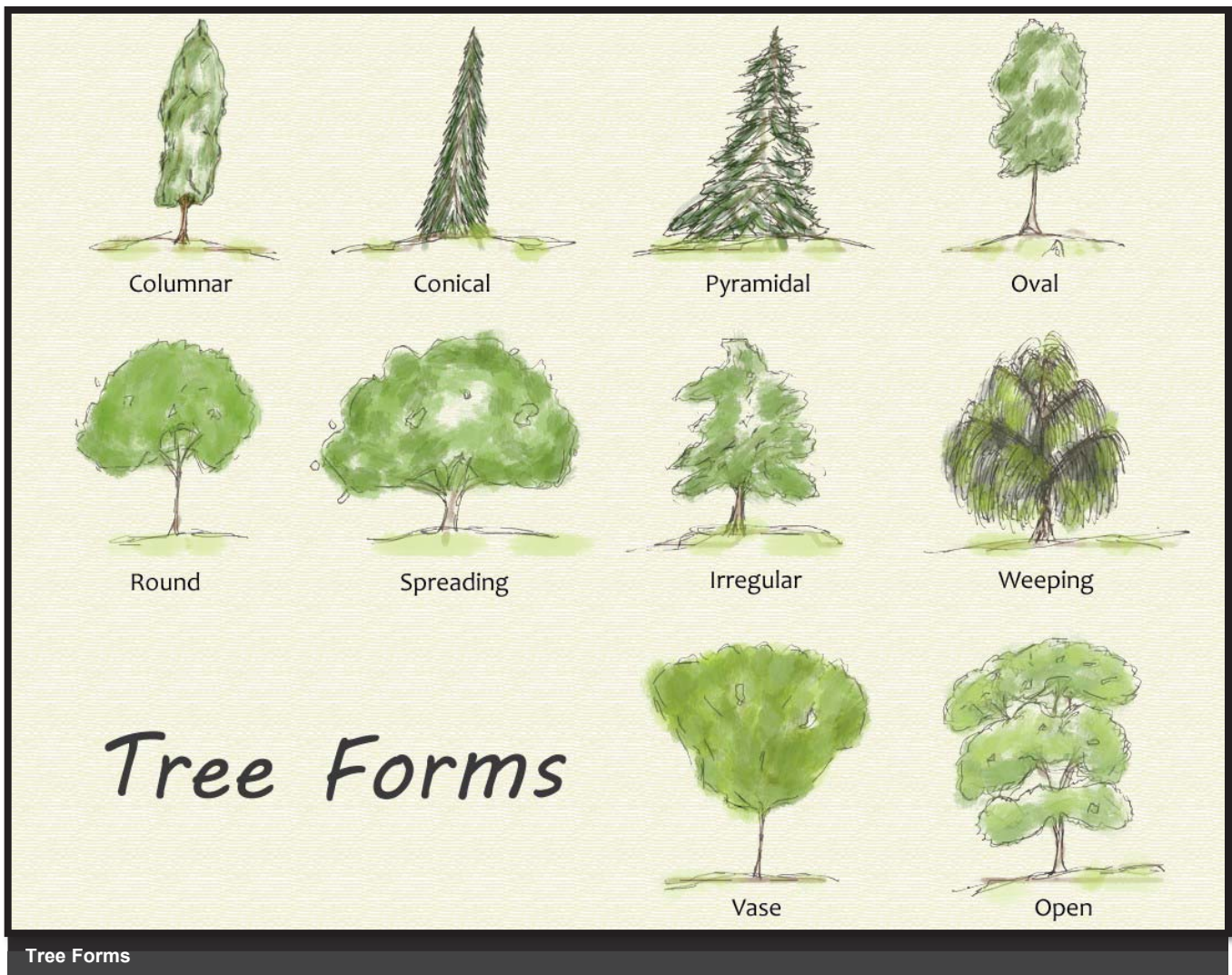
"Picking the right tree is essential to it's health and longevity. If a tree is not in the right soil, hardiness zone, or proper area for mature growth, the tree suffers. If severe pruning has to take place, stress to the tree happens, which can cause susceptibility to disease and death."

- PKJ Design Group, L.L.C

IN THIS GUIDE

- . Tree Forms and Class
- . Tree Planting Instructions
- . Tree List and Characteristics

TREE FORM / CLASS



Tree Forms

The tree forms pictured here are examples of tree shapes at maturity. It should give you a good idea of how the tree will look and help you plan its place in your landscape. These forms are referred to under the tree characteristics in this guide.

You will find specific heights, crown spreads and other tree characteristics found under the description of each tree.

How to Select a Tree

Shade trees are very different in growth and characteristics from one to another. Learning about a tree's shape, mature height, and spread will help in selecting the correct tree for the correct location.

No Cleanup

Most trees produce flowers, seeds and leaves that will drop during part of their natural life cycle. No tree is truly cleanup free, but this guide will help you choose ones that produce less than others.



Round Form

Conifers

Conifer trees provide year round greenery, screening, and serve as excellent wildlife sanctuaries. They generally should not be pruned and therefore need large growing areas away from buildings, sidewalks, and driveways. Space varies with species.



Pyramidal Form

Tree Class

Class I - Smaller trees which normally do not reach a large height or trunk diameter. They are ideal for planting beneath or near power lines and in parking strips that are at least 6 feet wide.

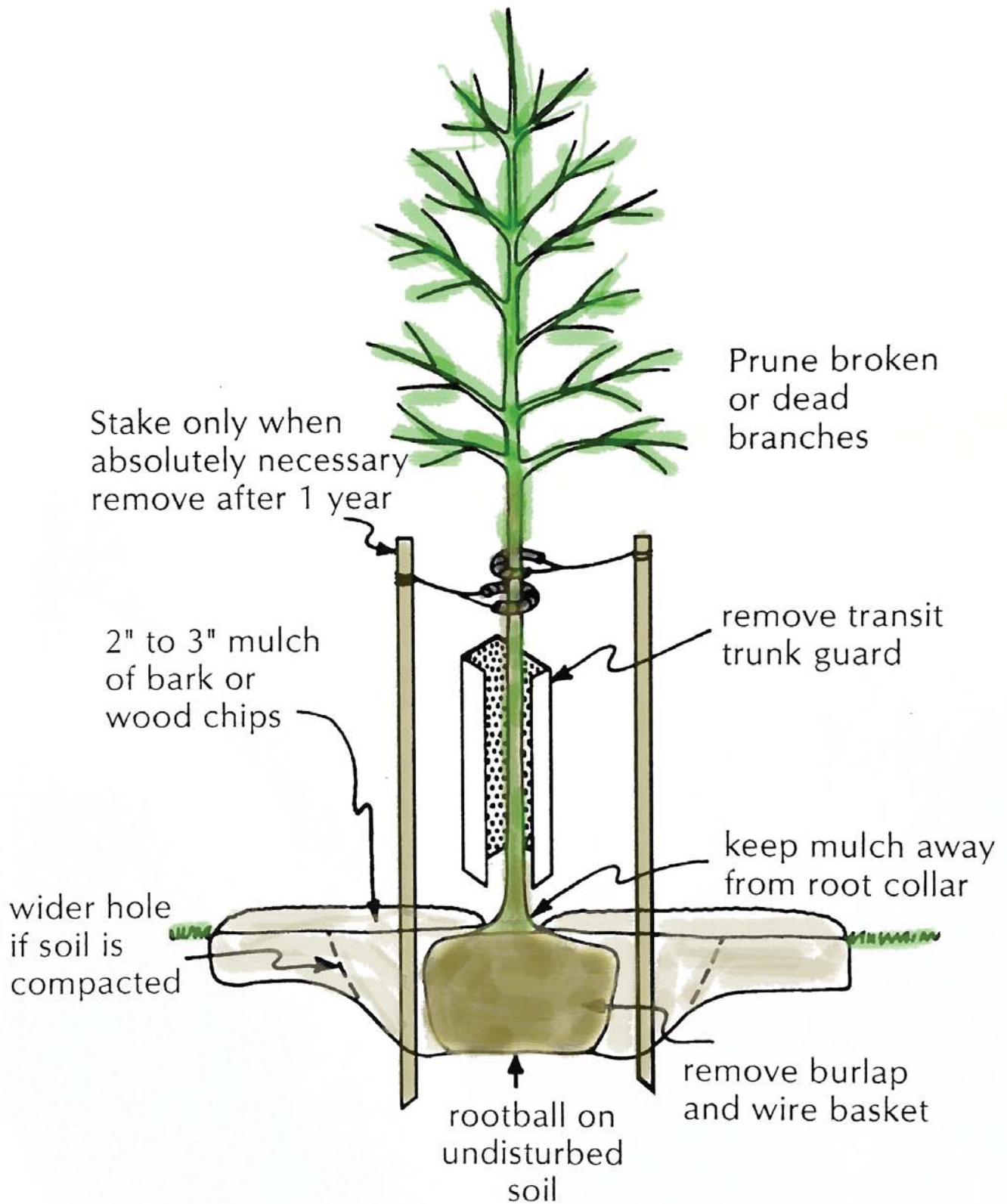
Class II - Medium sized trees that are valued for their aesthetic and shade contributions. These trees are not for planting under power lines or in parking strips that are less than 6 feet wide.

Class III - Large sized trees that are long-lived and have large heights and trunk diameters. These trees are not for planting under or near power lines or in parking strips that are less than 10 feet wide.



Tree Class

TREE PLANTING / MAINTAINING



Planting your tree correctly

1. Dig the planting hole at least twice the width of the root ball and only as deep as the root ball. Make sure the tree is planted too high not too low.
2. Remove a tree from a container, gently lay it down. Push on the sides and bottom of the container to break contact between the root ball and container. Hold the trunk near the surface of the soil and push/pull the container away from the root ball. Slide the container off the root ball. Do not pull on the trunk. If the root ball is too large for this process it may be necessary to cut the container off after the tree is placed in the planting site.
3. Prune circling or protruding roots and remove twine from canopy.
4. Handle the root ball with extreme care. Minimize as much as possible any crumbling, cracking, and splitting of the root ball.
5. After gently placing the tree in the hole, remove wire and burlap if the stability of the root ball allows. If not, remove only the top one or two rows of wire and an equal amount of burlap.
6. Use the soil removed from the hole to backfill. Minimize air pockets by removing soil clumps, rocks, sod, and folded burlap.
7. Deeply soak the hole and root ball.
8. Place two to three inches of mulch over the planting area. Avoid direct contact between the mulch and the trunk of the tree.
9. Check moisture content of the backfill and root ball weekly to determine how much and how often to water.

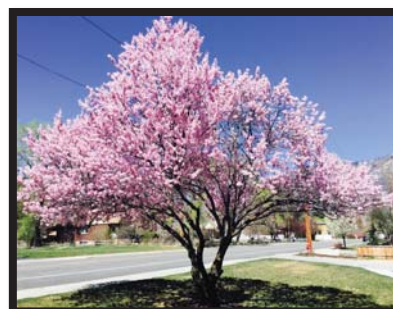
*Utah State University Extension Bulletin EC 460,
Selecting and Planting Landscape Trees is an excellent reference.*

Planting Location

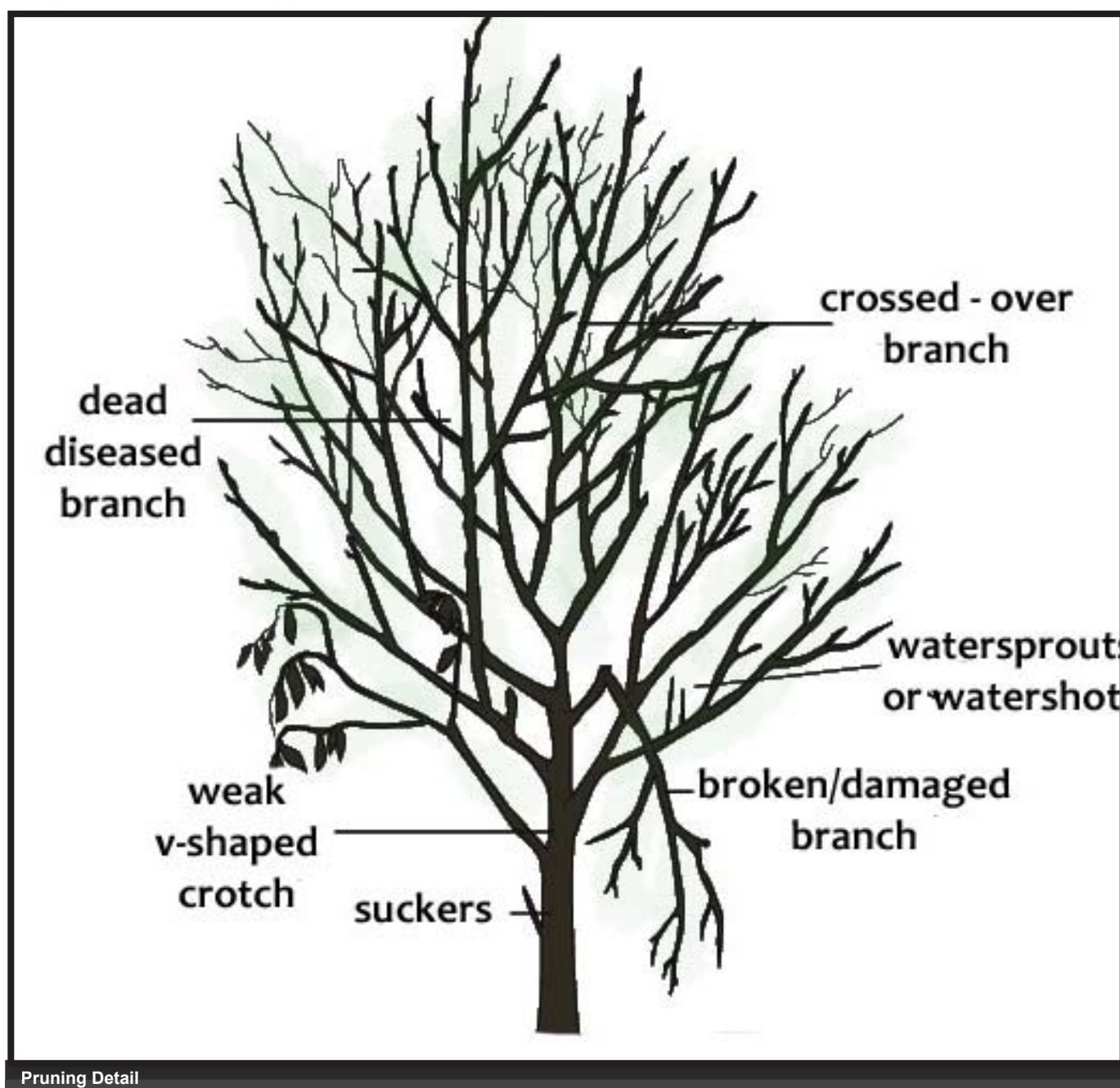
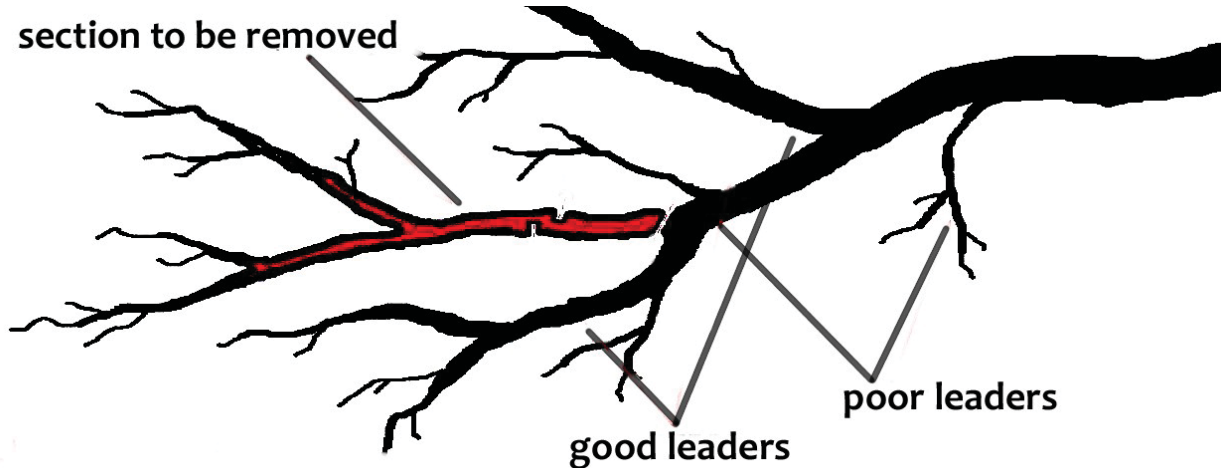
Before choosing the planting location, contact Blue Stakes (1-800-662-4111) for location of underground utilities.



Columnar Form



Spreading Form



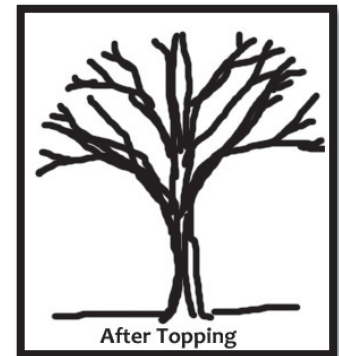
Pruning Detail

Maintaining Healthy Trees

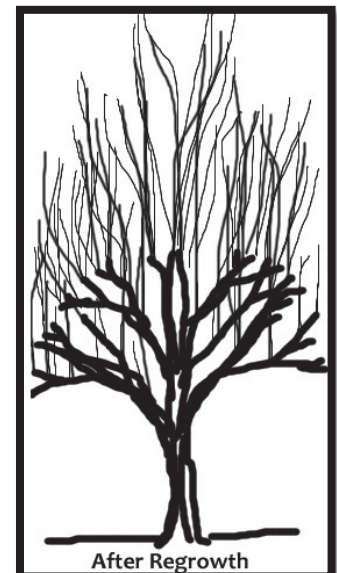
1. **Watering** - Watering the tree regularly during the first year is critical to its establishment. Apply about 1 1/2" of water per week at one time, rather than watering daily. Place a shallow pie pan under the tree canopy and water the area until 1 1/2" accumulates in the pan. Depending on the sprinkler system, it may take 1/2 hour to 3-4 hours. Water from spring to fall and more often during periods of drought.
2. **Mulching** - Mulching is a must! Mulch with wood chips to help retain soil moisture and reduce weeds. It also protects the tree from lawn mowers and weed trimmers. Mulch with 2"-3" of material at a 6' diameter. Keep mulch away from the tree trunk a few inches to avoid trunk rot. As mulch decomposes, it enriches the soil and provides organic matter and beneficial micro-organisms.
3. **Fertilizing** - Fertilizers are naturally or synthetically produced elements applied to the soil or foliage of plants to supply nutrients necessary for normal or accelerated growth. With the exception of nitrogen, fertilizing is usually not required unless a known deficiency exists.
4. **Pests** - Many pest problems occur as a result of improper watering, poor plant stock, or an inferior planting site. Trees that are poorly adapted to a particular site are usually the ones most affected by pests. Choosing the appropriate tree and planting it in an environment capable of sustaining good growth will significantly reduce many pest problems.
5. **Proper Pruning** - Pruning can ensure the tree grows to the size and shape you want. When performed correctly, it can also improve the structure of the tree. Before pruning any tree, make sure you know how to prune it without damaging the tree. Improper pruning can make the tree more susceptible to diseases and insects, weaken the tree, shorten the life of the tree, and take away from the aesthetics of the tree. Pruning near power lines or any other utility lines should be done by a certified professional.

Never Top Trees

Topping a tree is cutting back large tree limbs to stubs larger than three inches in diameter. It is the most hazardous pruning method available. When a tree is topped, it can lead to weakened limbs and even tree death.



These trees become eyesores in the landscape. It also causes the tree to grow many new limbs around the cuts that are made, these limbs grow rapidly and have weak attachments to the tree. These weak limbs often fall off causing property damage or personal injury or death.



TREE PLANTING LOCATIONS



Tree Planting GuideBook - Diagram A

(Tree Plantings Near Utility Poles)

Class III
Large Trees
70'Tall



45' min.

Class II
Medium Trees
50'Tall

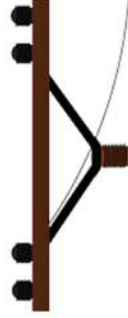


35' min.

Class I
Small Trees
30'Tall



15' min.







Tree Planting Guide Book - Diagram C (Maintaining Sight Lines)

Existing trees within the park strips need to be trimmed to maintain a 13.5' minimum clear zone height.

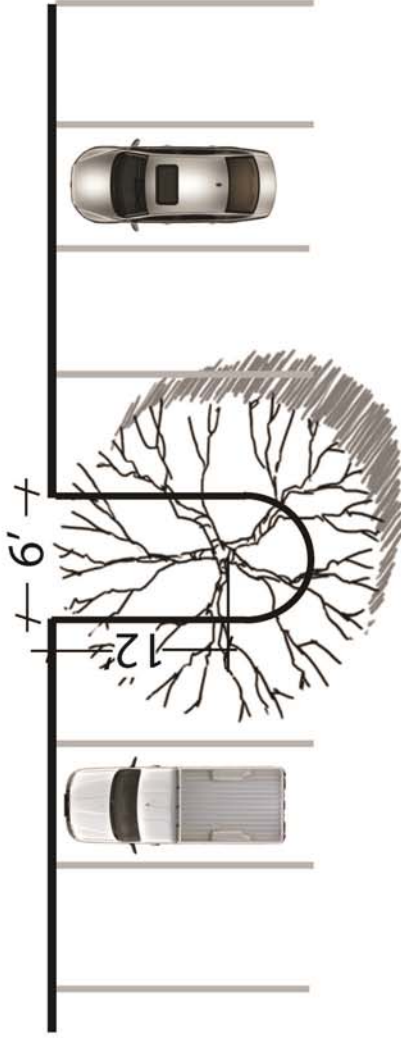


Tree branches shall be trimmed to a minimum height of 13.5' above the curb and gutter and a 8' minimum height above sidewalk.

Diagram C



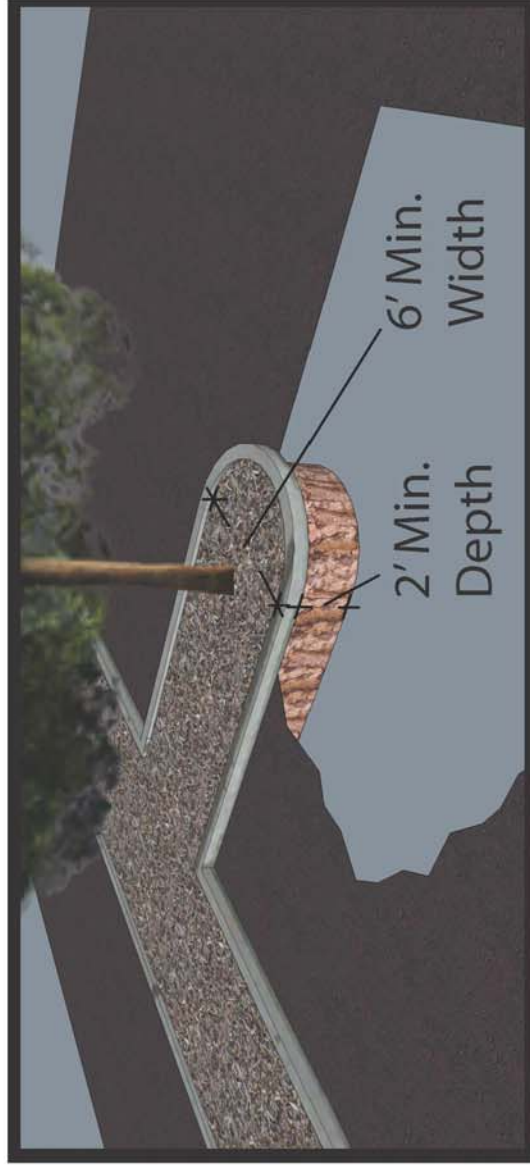
Tree Planting Guide Book - Diagram D (Parking Island Tree Placement)



Place tree in parking islands as shown above

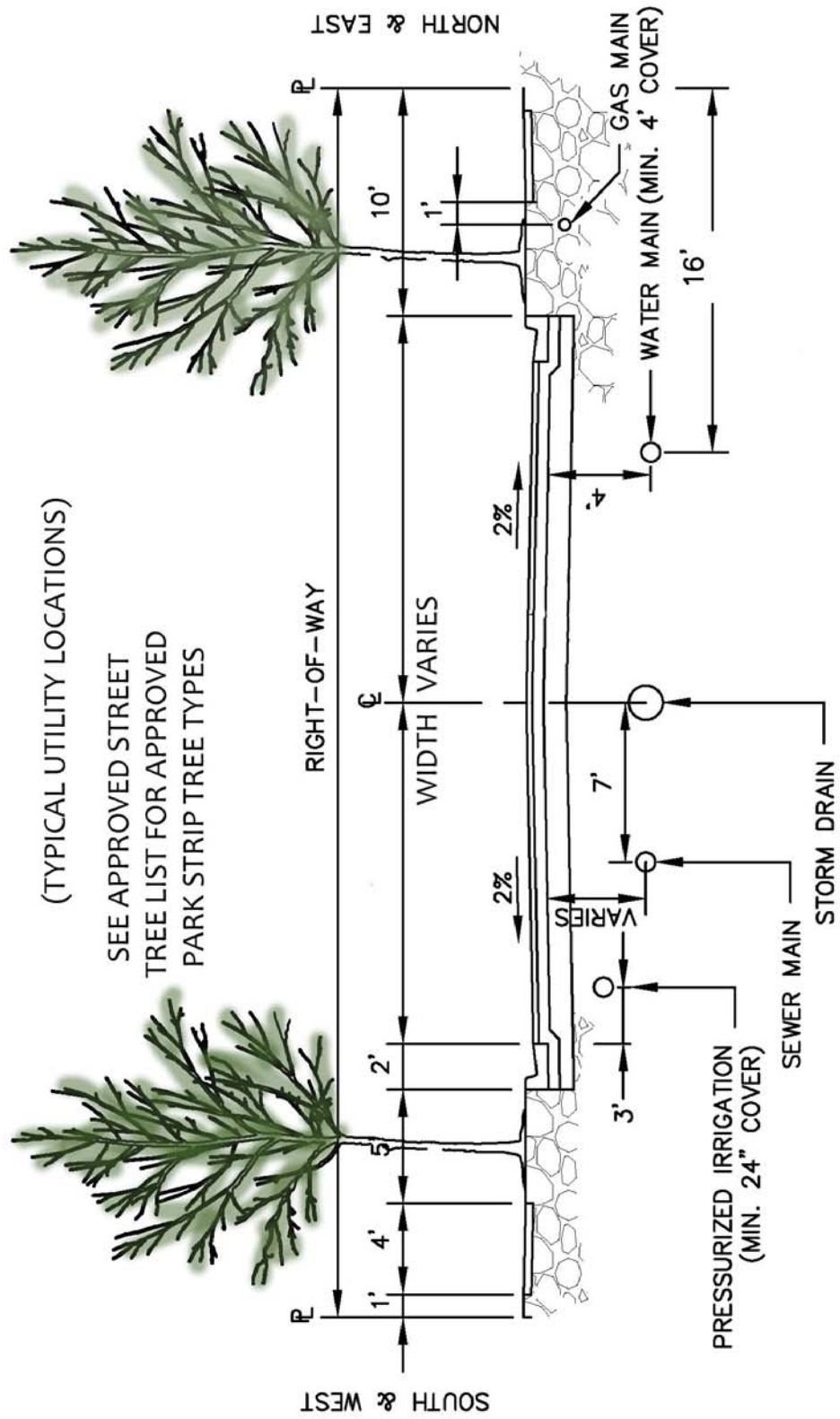


Tree Planting Guide Book - Diagram E (Minimum Parking Island Area)

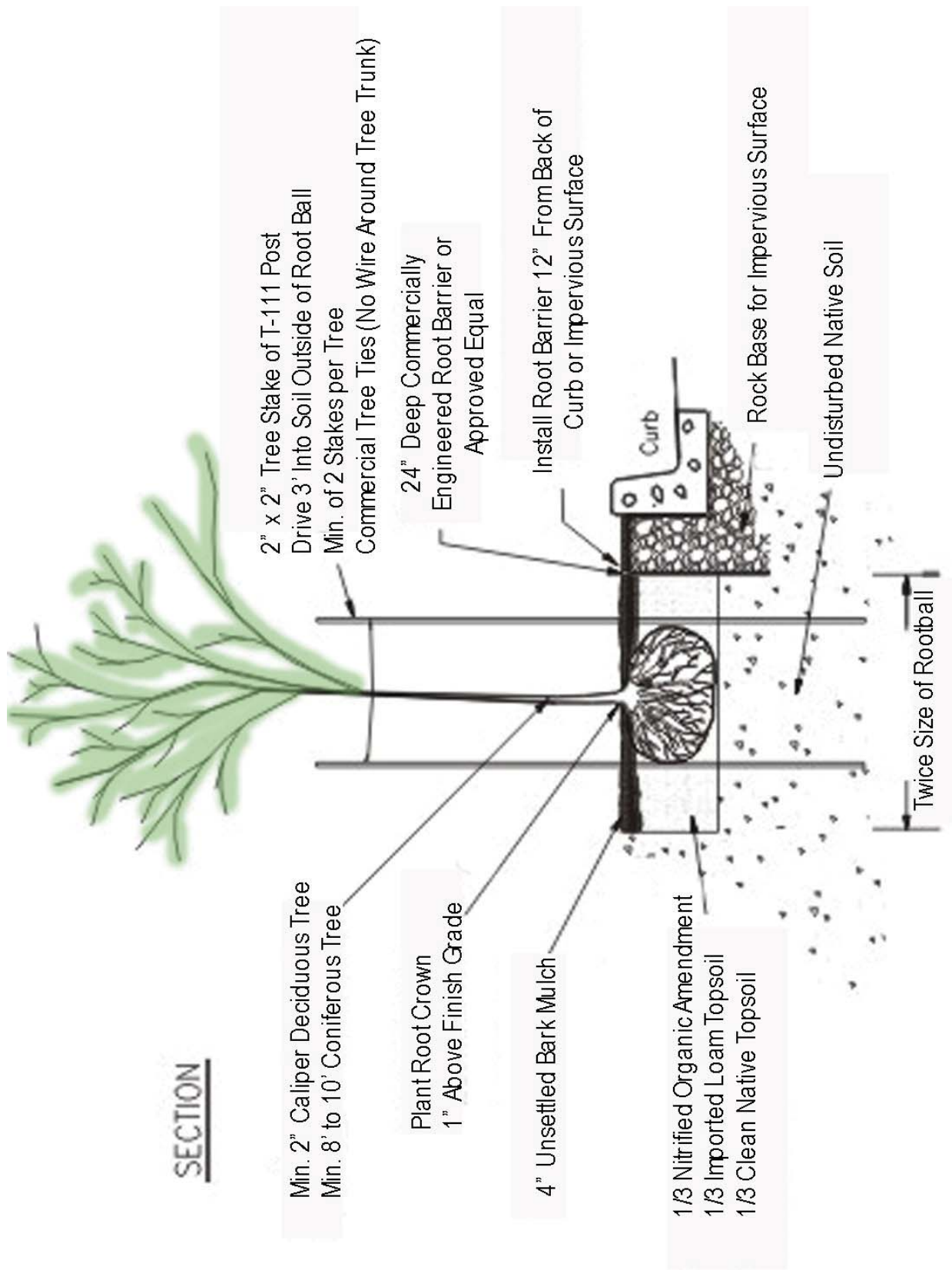


2' Minimum depth of soil
6' Minimum width of parking island

To ensure tree health within a parking island, a minimum amount of 120 sq. ft. surface area must be installed with each tree. Class I or Class II



SECTION



TREE CHARACTERISTICS

Symbol Legend



Solar Friendly

Trees that maximize the sun's rays year-round. Solar friendly trees provide shade during the summer and a large percentage of sunlight penetration during the winter.



Drought Tolerance

No tree can survive in permanently dry soil. Some tree species, however, are more tolerant of dry soil conditions than others.



Low Water



Moderate Water



Higher Water



Wildlife Friendly

Trees that attract wildlife.



Deer Resistant

Trees that tend to repel deer from eating them.



Street Tree

Trees that are appropriate to plant in the right-of-way along streets due to growth habit.



Utility Friendly

Trees that are appropriate due to growth habit and lower height to plant under utility lines.



Windbreaks

Trees that help screen and deflect winds

Symbol Legend

Tree Characteristics

Located at the side of each illustrated tree page there are boxes and symbols denoting additional information about that particular tree. These symbols are explained above.

Submittal Process

If you would like to discuss planting and placement of a tree that is not recommended in this guide book, please submit to the Planning Department the full name of the proposed tree with placement location on your property. It will then be under review on a case by case basis.

Drought Tolerance

Lower water demand does not mean a tree can survive in permanently dry soil. All trees prefer a somewhat moist soil for optimum health and maximum growth. To protect your investment, be sure to water trees regularly in hot, dry periods.














Irregular Form













CLASS I


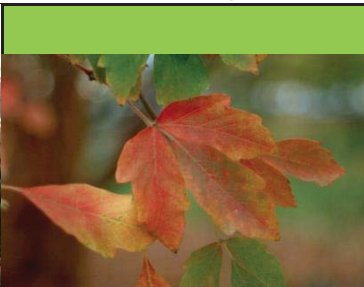



These trees are smaller trees which normally do not reach a large height or trunk diameter. They are ideal for planting beneath or near power lines and in parking strips that are at least five feet wide. Typical spacing between Class I trees is 30 to 40 feet .






Class I		Hedge Maple				
Acer Campestre						
 		Family	Aceraceae			
		Form	Broad, rounded			
		Size	35' Spread 35' Height			
		Fall Color	Yellow			
		Seed	Wings very wide spread			
		Flower	Insignificant			
Characteristics		Deciduous,very round crown and densely branched				
Growing Conditions		Zone: 5 to 8, medium moisture, well-drained soils in full sun to part shade.				
Growth Rate		Medium				
Disease and Pests		No serious insect or disease problems.				
Common Varieties		Carnival', 'Elegant', 'Elsrijk', 'Evenly Red', 'Field Maple', 'Jade Patina', 'Louisa Red Shine', 'Metro Gold', 'Nanum', 'Postelense', 'Pulverentum', 'Queen Elizabeth', 'Royal Ruby', 'Schichtel's Upright', 'St. Gregory', 'William Caldwell'.				
Where to See		Native to Europe, Africa, and western Asia				





Class I		Trident Maple				
Acer buergeranum						
			Family	Aceraceae		
			Form	Oval to rounded		
			Size	35' Spread 35' Height		
			Fall Color	Yellow, orange, red		
			Seed	Wings parallel; fall maturing.		
			Flower	Insignificant		
Characteristics		Deciduous, oval to rounded small tree				
Growing Conditions		Zones 5-9, Fairly drought resistant. Shade intolerant.				
Growth Rate		Low				
Disease and Pests		No serious insect or disease problems.				
Common Varieties						
Where to See		Native to China				





Class I		Amur Maple			
Acer ginnala					
			Family	Aceraceae	
			Form	Rounded	
			Size	20' Spread 20' Height	
			Fall Color	Yellow to red	
			Seed	2 parallel wings, 3/4" to 1" long	
			Flower	Yellow-white and fairly inconspicuous	
Characteristics		Deciduous,broad, rounded outline, typically multistemmed			
Growing Conditions		Zones 2-8, Moderately shade tolerant.			
Growth Rate		Medium			
Disease and Pests					
Common Varieties		Compactum', Durand Dwarf', 'Embers', 'Emerald Elf', 'Flame', 'Mandy', 'Red Fruit', 'Summer Splendor', var semenovii.			
Where to See		Native to central and northern China, Manchuria, and Japan			






Class I		Bigtooth Maple				
Acer grandidentatum						
			Family	Aceraceae		
			Form	Shrubby or tree-like		
			Size	25' Spread 15' Height		
			Fall Color	Bright orange-red to red		
			Seed	U-shaped, double-winged, wings spread slightly		
			Flower	Yellow, no petals, small, inconspicuous		
Characteristics		This is the common maple that gives Logan Canyon and other Utah foothill and mountain locations their outstanding fall color.				
Growing Conditions		Zones 4-7, Withstands high soil pH				
Growth Rate		Medium				
Disease and Pests						
Common Varieties		Rocky Mountain Glow'				
Where to See		Native from southern Idaho south to Mexico and east to Texas, including much of Utah in mountainous locations.				








Class I		Paperbark Maple				
Acer griseum						
			Family	Aceraceae		
			Form	Oval to oval-rounded		
			Size	25' Spread 30' Height		
			Fall Color	Red		
			Seed	1" to 1-1/2" long; pubescent; wings at 60 to		
			Flower	Insignificant		
Characteristics		Is a small, deciduous tree with slender upright branching. It is particularly noted for its exfoliating copper orange to cinnamon reddish/brown bark				
Growing Conditions		Zone 4 to 8, Easily grown in average, slightly acidic, medium moisture, well-drained soil				
Growth Rate		Low				
Disease and Pests		No serious insect or disease problems.				
Common Varieties		Cinnamon Flake', 'Gingerbread', 'Molly Fordham'				
Where to See		Native to China.				







Class I		Maple Tatarian					
Acer tataricum							
			Family	Aceraceae			
			Form	Shrubby or tree-like			
			Size	20' Spread 20' Height			
			Fall Color	Yellow or red			
				Seed	3/4" to 1" long; wings parallel;		
				Flower	Yellow-white or creamy		
Characteristics		Typically grows as a small, upright spreading tree. a substitute for Amur maple.					
Growing Conditions		Zone: 3 to 8, Drought resistant and fairly adaptable. Shade intolerant.					
Growth Rate							
Disease and Pests		Verticillium wilt, stem canker, leaf spots, tar spot and anthracnose may appear. Watch for aphids, borers, scale, leafhoppers, caterpillars and mites. Plants have escaped cultivation and naturalized by self-seeding in certain parts of the eastern U.S.					
Common Varieties		Rubrum'.					
Where to See		Native to southeastern Europe and western Asia					








Class I		Red Buckeye				
Aesculus Pavia						
			Family	Sapindaceae		
			Form	Rounded		
			Size	15' Spread 15' Height		
			Fall Color	Loses leaves early (late September)		
			Seed	Smooth, light brown, globular seed capsules		
			Flower	Showy narrow-tubular		
Characteristics		Deciduous clump-forming shrub or small tree with an irregular rounded crown.				
Growing Conditions		Zone: 4 to 8, well-drained soil in full sun to part shade				
Growth Rate		Average				
Disease and Pests		Leaf blotch can be a significant problem				
Common Varieties						
Where to See		North America				








Class I		Silk Tree				
Albizia julibrissin						
			Family	Fabaceae		
			Form	Vase shape		
			Size	50' Spread 40' Height		
			Fall Color	No notable fall color		
			Seed	Flat bean-like		
			Flower	Pink		
Characteristics	Small to medium sized, deciduous tree with a spreading, often umbrella-like crown					
Growing Conditions	Zone: 6 to 9, Tolerant of heat, dryness, high soil pH and salinity. Shade intolerant.					
Growth Rate	High					
Disease and Pests	Wilt is a serious problem in many areas. Also susceptible to mimosa web worm.					
Common Varieties	Charlotte', 'Durazz', 'E.H Wilson', 'Flame', 'Ishii Weeping', 'Merlot Majik', 'Summer Chocolate', 'Tryon', 'Union'.					
Where to See	Native from China to Iran, but heavily planted and naturalized in the southeastern U.S.					

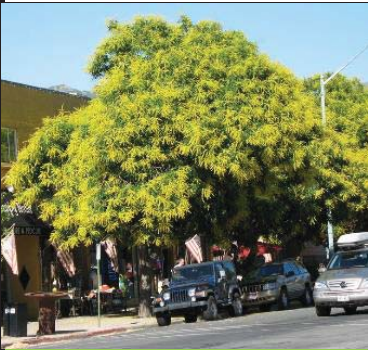





Class I		Eastern Redbud				
Cersis canadensis						
			Family	Fabaceae		
			Form	Rounded		
			Size	30' Spread 35' Height		
			Fall Color	Yellow		
			Seed	Brown, hard		
			Flower	Purple-pink, pea-like		
Characteristics	Is a deciduous, often multi-trunked understory tree. t is particularly noted for its stunning pea-like rose-purple flowers					
Growing Conditions	Zone: 4 to 8, medium moisture, well-drained soils in full sun to part shade.					
Growth Rate	Medium					
Disease and Pests	Canker can be a significant disease problem. Verticillium wilt, dieback, leaf spots, mildew and blights may also occur. Insect pests include Japanese beetles, tree hoppers, leaf hoppers, caterpillars, borers, webworms and scale.					
Common Varieties	Alba', 'Appalachian Red', 'Covey', 'Dwarf White', 'Flame', 'Forest Pansy', 'Northland Strain', 'Pinkbud', 'Royal White', 'Rubye Atkinson', 'Silver Cloud', 'Tennessee Pink', 'Traveller', 'Withers Pink Charm'.					
Where to See	Native to most of the eastern U.S. (not Utah)					








Class I		English Hawthorn				
Crataegus Laevigata						
			Family	Rosaceae		
			Form	Rounded		
			Size	20' Spread 20' Height		
			Fall Color	Yellow-orange to brown		
			Seed			
			Flower	Sometimes white, but often pink, or red		
Characteristics		It is a small, low-branching, deciduous tree that is noted for its profuse spring bloom.				
Growing Conditions		Zone: 4 to 7, Best grown in moist but well-drained soils in full sun.				
Growth Rate		Medium				
Disease and Pests		Susceptible to a large number of insect and disease problems				
Common Varieties		Autumn Glory', 'Crimson Cloud', 'Paul's Scarlet', 'Plena', 'Rosea', 'Rosea Flore Plena', var rubra.				
Where to See		Native to Europe and northern Africa				








Class I		Hawthorne Lavalle				
Crataegus LaVallei						
			Family	Rosaceae		
			Form	Small oval to rounded tree		
			Size	25' Spread 18' Height		
			Fall Color	Dark purple or brown		
			Seed			
			Flower	White		
Characteristics		Erect & less densely branched than other hawthorns. Flower has unpleasant smell				
Growing Conditions		Zones 4-8, well-drained soils in full sun				
Growth Rate		Medium				
Disease and Pests		Susceptible to cedar hawthorn rust and fireblight				
Common Varieties		'Lavalle'.				
Where to See						







Class I		Washington Hawthorn				
Crataegus phaenopyrum						
			Family	Rosaceae		
			Form	Rounded		
			Size	30' Spread 30' Height		
			Fall Color	Orange to red		
			Seed			
			Flower	White & bright orange-red when mature		
Characteristics		It is a small, low-branching, deciduous tree. Noted for its attractive flowers and foliage				
Growing Conditions		Zones 3-8, Best grown in moist but well-drained soils in full sun.				
Growth Rate		Medium				
Disease and Pests		Good resistance to cedar-apple rust. Fire blight, fungal leaf spots, powdery mildew, cankers and apple scab are occasional problems				
Common Varieties		Clark', 'Fastigiata', 'Manbeck Select', Princeton Sentry™, 'Vaughn'.				
Where to See		Native to much of the eastern U.S.				





Class I		Rose of Sharon Tree				
Hibiscus syriacus						
			Family	Malvaceae		
			Form	Vase		
			Size	15' Spread 15' Height		
			Fall Color	Green		
			Seed	Inconspicuous		
			Flower	Trumpet shaped		
Characteristics		Deciduous clump-forming shrub or small tree, tubular flowers appear in spring.				
Growing Conditions		Zone 5-9, Full Sun / Partial Shade, Moist and Well-drained soils.				
Growth Rate		Medium; a 13"-24" or less per year.				
Disease and Pests		Aphids, Japanese Beetle, Leaf Spots				
Common Varieties		Helene, Diana				
Where to See						








Class I		Goldenrain Tree				
Koelreuteria paniculata						
			Family	Sapindaceae		
			Form	Rounded		
			Size	40' Spread 40' Height		
			Fall Color	Yellow to orange		
			Seed	Black, hard, pea-like		
			Flower	Bright yellow		
Characteristics		Small, open-branching, irregularly-shaped, deciduous tree				
Growing Conditions		Zones 5-9, Easily grown in average, dry to medium, well-drained soil in full sun.				
Growth Rate		Medium				
Disease and Pests		Root rot, leaf spot and canker.				
Common Varieties		Fastigiata', 'September', Stadher's Hill'.				
Where to See		Native to China, Japan, and Korea				







Class I		Goldenchain Tree				
Laburnum x watereri						
			Family	Fabaceae		
			Form	Rounded		
			Size	30' Spread 30' Height		
			Fall Color	Unremarkable fall color		
			Seed	Poisonous		
			Flower	Bright yellow		
Characteristics		Is noted for its pendulous axillary racemes of yellow, wisteria-like flowers .				
Growing Conditions		Zones 5-7, grown in rich, medium moisture, well-drained soils in full sun to part shade.				
Growth Rate		Medium				
Disease and Pests		Twig blight is an infrequent but potentially serious disease. Canker and leaf spot are lesser disease problems. Watch for aphids and mealybugs.				
Common Varieties		Alford's Weeping', 'Aureum', 'Pendulum', Vossii'.				
Where to See		Central, southern, and eastern Europe				


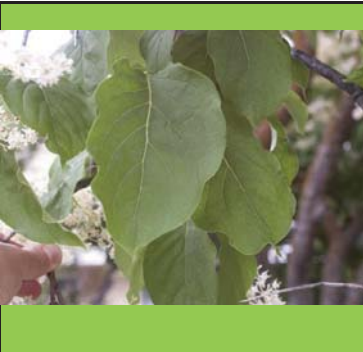




Class I		Flowering Crabapple				
Malus						
 		Family	Rosaceae			
		Form	Rounded			
		Size	20' Spread 20' Height			
		Fall Color				
		Seed				
		Flower	White, pink, red, or purplish			
Characteristics		Is a genus of about 35 species of deciduous trees				
Growing Conditions		Zone 4 to 8, grown in medium moisture, well-drained, acidic loams in full sun				
Growth Rate		Medium				
Disease and Pests		Scab, fire blight, rusts, leaf spot and powdery mildew. pests are of lesser concern and include tent caterpillars, aphids, Japanese beetles, borers and scale.				
Common Varieties		Numerous varieties.				
Where to See						

Class I		Flowering Plum			
Prunus cerasifera					
			Family	Rosaceae	
			Form	Rounded	
			Size	25' Spread 30' Height	
			Fall Color	No fall color	
			Seed	Round	
			Flower	Pink or white	
Characteristics	It only exists in cultivation except for the situations where it has escaped gardens				
Growing Conditions	Zones 5-8, medium moisture, well-drained loams in full sun to part shade.				
Growth Rate	Medium				
Disease and Pests	Susceptible to a large number of insect and disease pests				
Common Varieties	'Alfred', 'Atropurpurea', 'Clark Hill Redleaf', 'Festeri', 'Hessei', 'Hollywood', 'Krauter Vesuvius', 'Mt. St. Helens', 'Newport', 'Nigra', 'Purple Pony', 'Purpusii', 'Thundercloud', 'Vesuvius'.				
Where to See					

Class I		Flowering Cherry			
Prunus serrulata					
			Family	Rosaceae	
			Form	Vase-shaped to rounded	
			Size	25' Spread 25' Height	
			Fall Color	Bronze and red to undistinguished drab yellows	
			Seed		
			Flower	White to pink	
Characteristics		A medium sized tree, It features non-fragrant white flowers in spring			
Growing Conditions		Zones 5- 9, grown in moist, fertile, well-drained loams in full sun to part shade			
Growth Rate		Medium			
Disease and Pests		Susceptible to a large number of insect and disease pests			
Common Varieties		'Amanogawa', 'Autumnalis', 'Beni-Hoshi', 'Fugenzo', 'Kwanzan', 'Mt. Fuji', 'New Red', 'Ojochin', 'Okame', 'Prentice Dancer', 'Royal Burgundy', 'Shirofugen', 'Shogetsu', 'Ukon'.			
Where to See		Native to China, Japan, and Korea			







Class I		Chokecherry				
Prunus virginiana						
			Family	Rosaceae		
			Form	Irregular, oval-rounded		
			Size	20' Spread 30' Height		
			Fall Color	Golden yellow to orange		
			Seed			
			Flower	Small, white		
Characteristics		A small deciduous tree most frequently occurs on wooded slopes, bluffs and ravines				
Growing Conditions		Zones 2-6, Grow in average, dry to medium, well-drained loams in full sun to part shade.				
Growth Rate		Medium				
Disease and Pests		Susceptible to a large number of insect and disease pests.				
Common Varieties		Bailey Select', 'Boughen's Chokeless', 'Canada Red', "Copper Schubert", 'Mini Schubert', 'Purple Jewel', 'Robert', 'Schubert'.				
Where to See		Native to most of the continental U.S., including Utah, and to much of Canada.				







Class I		Callery Pear				
Pyrus calleryana						
			Family	Rosaceae		
			Form	Pyramidal to columnar		
			Size	25' Spread 30' Height		
			Fall Color	Orange, yellow, red, or purple		
			Seed			
			Flower	Showy, white; 1/2" to 1" in diameter		
Characteristics		Is an upright-branched ornamental tree. It is noted for its early profuse spring bloom				
Growing Conditions		Zones 5-9. Grown in humusy, well-drained loam with consistent moisture in full sun				
Growth Rate		Medium				
Disease and Pests		Susceptible to limb breakage or splitting from strong winds, snow or ice				
Common Varieties		Bradford'				
Where to See		Throughout the U.S.				







Class I		Japanese Lilac Tree				
Syringa reticulata						
			Family	Oleaceae		
			Form	Oval-rounded		
			Size	20' Spread 30' Height		
			Fall Color	Yellow to brown		
			Seed			
			Flower	White; held in 6" to 12" long heads		
Characteristics		Grows as a small tree or large shrub. It has showy, fragrant, creamy white flowers				
Growing Conditions		Zones 3-8 medium moisture, well-drained soil in full sun				
Growth Rate		Medium				
Disease and Pests		No serious insect or disease problems.				
Common Varieties		Chantilly Lace', 'China Gold', 'Ivory Silk', 'Regent', 'Summer Snow', var. mandschurica.				
Where to See		Northern China				







CLASS II







These trees are medium sized trees that are valued for their aesthetic and shade contributions. These trees are not for planting under power lines or in parking strips that are less than five feet wide. Typical spacing between Class II trees is 40 to 50 feet .







Class II		Bigtooth Maple			
Acer grandidentatum					
			Family	Aceraceae	
			Form	Broad	
			Size	30' Spread 30' height	
			Fall Color	Bright orange-red to red	
			Seed		
			Flower	Yellow, no petals, small, inconspicuous	
Characteristics		It is tolerant of our soil and climatic conditions, and even appears to withstand some drought when planted in the valleys			
Growing Conditions		Zones 4-7, Tolerant of our soil and climatic conditions, and even appears to withstand some drought when planted			
Growth Rate		Medium			
Disease and Pests					
Common Varieties		Rocky Mountain Glow			
Where to See		Native from southern Idaho south to Mexico and east to Texas, including much of Utah in mountainous locations.			







Class II	Norway Maple					
Acer Platanoides						
 		Family	Sapindaceae			
		Form	Broad			
		Size	50' Spread 50' Height			
		Fall Color	Uniform yellow			
		Seed	Paired seeds with horizontally spreading wings			
		Flower	Monoecious			
Characteristics	Deciduous, rounded crown, densely branched, often wider than tall when open grown					
Growing Conditions	Zone: 3 to 7					
Growth Rate	Medium					
Disease and Pests	No serious insect or disease problems. Susceptible to verticillium wilt which is usually fatal. Susceptible to verticillium wilt which is usually fatal.					
Common Varieties	Crimson King', 'Crimson Sentry', 'Drummondii' Globosum', 'Emerald Queen', 'Erectum', 'Princeton Gold', 'Schwedleri'					
Where to See	Northeastern Europe to Caucauses					







Class II		Sycamore Maple			
Acer pseudoplatanus					
			Family	Aceraceae	
			Form	Broad	
			Size	60' Spread 60' Height	
			Fall Color	Greenish yellow to vibrant scarlet to burgundy	
			Seed	Pairs of samaras (to 2" long) with the wings typically forming a 60 degree angle	
				Flower	Monoecious
Characteristics	Deciduous,pyramidal or elliptical when young, becomes more spreading with age, eventually developing a more or less rounded or oval outline				
Growing Conditions	Zone: 4 to 7				
Growth Rate	Medium 				
Disease and Pests	No serious insect or disease problems. Canker is the most significant potential disease problem.				
Common Varieties	'Atropurpureum', 'Brilliantissimum', 'Erectum', 'Erythrocarpum', 'Leopoldii', 'Prinz Handjery', f. variegatum, 'Worley'				
Where to See	Northwest/central Europe and western Asia				


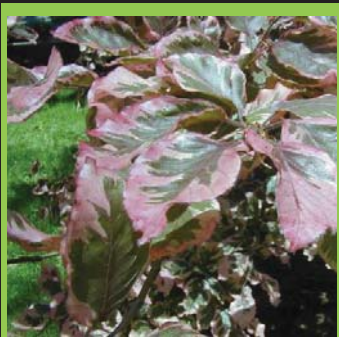






Class II		Red Maple				
Acer rubrum						
		   	Family	Aceraceae		
			Form	Broad		
			Size	50' Spread 70' Height		
			Fall Color	Orange-red foliage color		
			Seed			
			Flower	Showy		
Characteristics	Deciduous,pyramidal or elliptical when young, becomes more spreading with age, eventually developing a more or less rounded or oval outline					
Growing Conditions	Zones 3-9					
Growth Rate	Medium					
Disease and Pests	No serious insect or disease problems. Watch for aphids, leafhoppers, borers, scale and caterpillars. Verticillium wilt attacks the vascular system and can be fatal.					
Common Varieties	Armstrong', 'Armstrong Gold', 'Autumn Flame', 'Bowhall', 'Brandywine', 'Karpick', 'Northwood', 'October Glory', 'Red Skin', 'Red Sunset', 'Redpointe', 'Scarlet Sentinel'					
Where to See	Eastern North America from Quebec to Minnesota south to Florida and eastern Texas					







Class II		Autumn Blaze Maple				
Acer x freemanii						
 		Family	Aceraceae			
		Form	Broad			
		Size	40' Spread 55' Height			
		Fall Color	Greenish-yellow to red			
		Seed				
		Flower	Inflorescences in ball-like clusters			
Characteristics		A hybrid of red maple (A. rubrum) and silver maple (A. saccharinum). It is sometimes difficult to identify a Freeman hybrid because of the complexity of crosses and backcrosses that may occur.				
Growing Conditions		Zone: 3 to 8				
Growth Rate		High				
Disease and Pests		No serious insect or disease problems. Young plants susceptible to leafhoppers and scale. Borers.				
Common Varieties		Armstrong', 'Autumn Blaze', 'Autumn Fantasy', 'Celebration', 'Firefall', 'Marmo', 'Morgan', 'Scarlet Sentinel', 'Sienna Glen'				
Where to See						







Class II		European Alder			
Alnus glutinosa					
			Family	Betulaceae	
			Form	Broad	
			Size	40' Spread 60' Height	
			Fall Color	Reddish-brown (male), purple (female)	
			Seed		
			Flower	Monoecious; small male flowers, reddish-brown, in 2" to 4" long catkins; purplish female flowers inside an egg-shaped cone	
Characteristics		Small to medium-sized deciduous tree that is distinguished by its gummy young twigs and leaves and its obovate to rounded, glossy dark green leaves (to 4" long) with doubly toothed margins and blunt to sometimes notched apices			
Growing Conditions		Zones 3-7			
Growth Rate		High			
Disease and Pests		Canker is the most severe disease problem. Watch for aphids, leaf miner, tent caterpillars lace bugs and flea beetles.			
Common Varieties		'Aurea', 'Charles Howlett', 'Imperialis', 'Laciniata', 'Pyramidalis			
Where to See		Europe, Northern Africa, western Asia			








Class II		European Hornbeam				
Carpinus betulus						
 		Family	Betulaceae			
		Form	Broad			
		Size	40' Spread 60' Height			
		Fall Color	Yellow to yellow-green			
		Seed				
		Flower	Insignificant			
Characteristics		A deciduous, medium sized tree, somewhat pyramidal or oval when young, mature plants are broad and rounded				
Growing Conditions		Zones 4-8				
Growth Rate		Low				
Disease and Pests		No serious insect or disease problems.				
Common Varieties		'Asplenifolia', 'Brownstone', 'Columnaris', 'Columnaris Nana', 'Cornerstone', 'Emerald Avenue', 'Fastigiata', 'Franz Fontaine', 'Globosa', 'Pendula', 'Purpurea				
Where to See		Europe, Asia				







Class II		European Beech				
Fagus sylvatica						
			Family	Fagaceae		
			Form	Broad		
			Size	40' Spread 50' Height		
			Fall Color	Golden-yellow to reddish-orange		
			Seed			
			Flower	Monoecious. Flowers inconspicuous, in small groups		
Characteristics		Large deciduous tree,broad pyramidal shape, trunk is short and branches generally touch ground, slow growth rate				
Growing Conditions		Zone: 4 to 7				
Growth Rate		Low				
Disease and Pests		No serious insect or disease problems. Beech scale is an occasional problem. Watch for aphids, Japanese beetles and caterpillars. Distressed trees may be attacked by borers. Beech bark disease, canker and powdery mildew may occur.				
Common Varieties		Ansorgei', 'Asplenifolia', 'Atropunicea', 'Aurea Pendula', 'Black Swan', 'Cockleshell', 'Dawyck Gold', 'Dawyck Purple', 'Fastigiata', 'Franken', 'Mercedes', 'Pendula', 'Purple Fountain', 'Red Obelisk', 'Riversii', 'Rotundifolia', 'Tricolor'				
Where to See		Central Europe to Caucasus				







Class II		Tricolor Beech				
Fagus sylvatica						
			Family	Fagaceae		
			Form	Round		
			Size	20' Spread 30' Height		
			Fall Color	Bronze-gold		
			Seed			
			Flower	Monoecious yellowish green flowers bloom in April-May, the		
		Characteristics		A large deciduous tree typically growing to 50-60' (less frequently to 100') tall with a dense, upright-oval to rounded-spreading crown.		
Growing Conditions		Zone: 4 to 7				
Growth Rate						
Disease and Pests		No serious insect or disease problems. Beech scale is an occasional problem. Watch for aphids, Japanese beetles and caterpillars. Distressed trees may be attacked by borers. Beech bark disease, canker and powdery mildew may occur.				
Common Varieties						
Where to See		Woodlands in central and southern Europe				







Class II		Autumn Purple Ash				
Fraxinus americana 'Autumn Purple'						
			Family	Oleaceae		
			Form	Oval		
			Size	50' Spread 60' Height		
			Fall Color	Purple to yellow-purple		
			Seed			
			Flower	Dioecious; small and inconspicuous, arranged in conical clusters; appear in spring before the leaves expand.		
Characteristics		A large deciduous tree, shape is oval in youth, becoming more rounded with age, branches are distributed evenly in the crown				
Growing Conditions		Zones 3-9				
Growth Rate		Medium				
Disease and Pests		Emerald ash borer will typically kill an ash tree within 3-5 years after infestation. Once infestation occurs, it is very difficult to eradicate this pest which feeds under the bark and bores into wood. Potential disease problems include fungal leaf spots, powdery mildew, rust, anthracnose, cankers and ash yellows. General ash decline is also a concern. Brittle branches are susceptible to damage from high winds and snow/ice.				
Common Varieties		'Autumn Applause', 'Autumn Blaze', 'Champaign County', 'Chicago Regal', 'Elk Grove', 'Empire', 'Greenspire', 'Junginger', 'Manitou', 'Rosehill', 'Royal Purple', 'Skycole', 'Tures'				
Where to See		Eastern U.S				






Class II	Princeton Sentry' Ginkgo					
Ginkgo biloba						
 		Family	Ginkgoaceae			
		Form	Broad			
		Size	30' Spread 50' Height			
		Fall Color	Bright yellow			
		Seed				
		Flower	Dioecious. Green male flowers borne in 1" long catkins in spring; female flowers inconspicuous.			
Characteristics		Deciduous, a large tree, medium texture, rather coarse in , conical form when young, spreading lateral branches with agewinter				
Growing Conditions		Zone: 3 to 9				
Growth Rate		Medium				
Disease and Pests		No serious insect or disease problems. Usually slow growing, with initial growth being somewhat sparse.				
Common Varieties		Autumn Gold', Golden Colonnade', 'Halka', 'Jade Butterfly', 'Lakeview', 'Magyar', 'Pendula', 'Presidential Gold', 'Princeton Sentry', 'Saratoga', 'Troll', 'Tubifolia', 'Variegata'				
Where to See		China and Japan				






Class II		Honey Locust				
Gleditsia triacanthos var. inermis						
 		Family	Fabaceae			
		Form	Round			
		Size	80' Spread 80' Height			
		Fall Color	Greenish-yellow			
		Seed	Followed by long, twisted and flattened, dark purplish-brown seedpods			
		Flower	Showy			
Characteristics		A medium to large deciduous tree, spread is usually equal to height, branching is upright-spreading to arching or more or less horizontal, some trees become nearly flat-topped				
Growing Conditions		Zone: 3 to 8				
Growth Rate						
Disease and Pests		Susceptible to a large number of potential disease problems, including leaf spot, canker, witches' broom, powdery mildew and rust. Borers and webworms are common insect problems in some areas. Leaflets are too small to rake, which is good, but seed pods are unattractive on the tree and messy when they fall. Thorns on species plants can be just plain nasty.				
Common Varieties						
Where to See		Pennsylvania to Iowa south to Georgia and Texas				






Class II	Sweetgum				
Liquidamber styraciflua					
			Family	Altingiaceae	
			Form	Oval- Rounded	
			Size	65' Spread 75' Height	
			Fall Color	Yellow, orange, purple and red	
			Seed		
			Flower	Non-showy, monoecious, yellow-green	
Characteristics		Deciduous shade tree, Pyramidal when young, oblong to rounded when mature, usually maintains a single leader			
Growing Conditions		Zone: 5 to 9			
Growth Rate		Medium			
Disease and Pests		No serious insect or disease problems. Webworms, caterpillars, borers and scale may cause problems in some areas. Leaf spots, wood rot and bleeding necrosis may occur. Iron chlorosis may occur in alkaline soils.			
Common Varieties					
Where to See		Eastern United States, Mexico			


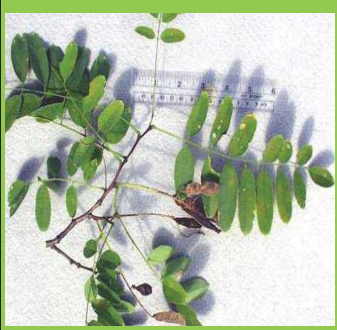




Class II		Dawn Redwood			
Metasequia glyptostroboides					
			Family	Cupressaceae	
			Form	Conical Shape	
			Size	25' Spread 100' Height	
			Fall Color	Unique pinkish tan to reddish bronze before dropping in the fall	
			Seed		
			Flower	Monoecious, producing oval, light brown female cones (3/4" long) and pendant globose male cones (1/2" long)	
Characteristics		A deciduous, coniferous , large tree, uniform conical habit, horizontal branching, growth rate is fast			
Growing Conditions		Zone: 4 to 8			
Growth Rate		High			
Disease and Pests		No serious insect or disease problems.			
Common Varieties					
Where to See		Central and western China			







Class II	White Mulberry				
Morus alba					
 		Family	Moraceae		
		Form	Broad		
		Size	50' Spread 50' Height		
		Fall Color	Unattractive yellow (sometimes green, yellow and brown)		
		Seed			
		Flower	Insignificant		
Characteristics	A deciduous, medium to large tree, dense, rounded tree, fast growing				
Growing Conditions	Zone: 4 to 8				
Growth Rate	High				
Disease and Pests	No serious insect or disease problems. Borers may be a problem particular in the South. Whiteflies mass on some trees. Bacterial blight may kill foliage/branches. Coral spot cankers may cause twig dieback. Bacterial leaf scorch, powdery mildew and root rot may also occur. Watch for scale, mites and mealybugs. Messy fruit may be a concern.				
Common Varieties	'Bellaire', 'Chaparral', 'Contorta', 'Fan-San', 'Fegyvernekiana', 'Fruitless', 'Hampton', 'Illinois Everbearing', 'Itoguwa', 'Lingan', 'Laciniata', 'Mapleleaf', 'Nuclear Blast', 'Pendula', 'Pyramidalis', 'Silk Hope', 'Stribling', var. tatarica, 'Urbana', 'Widman Mitchell'				
Where to See	China				







Class II		White Swamp Oak			
Quercus bicolor					
			Family	Fagaceae	
			Form	Round	
			Size	60' Spread 60' Height	
			Fall Color	Yellow, but sometimes reddish purple	
			Seed		
			Flower	Insignificant	
Characteristics		A medium-sized, deciduous tree, upright oval crown, open, moderate growth rate			
Growing Conditions		Zone: 3 to 8			
Growth Rate		Medium			
Disease and Pests		Generally a durable and long-lived tree, but is susceptible to a large number of potential diseases and insect pests, including anthracnose, canker, leaf spot, rust, blight, galls, caterpillars, borers, leaf miners, oak lace bug and oak mite. Chlorosis (yellowing of the leaves while the veins remain green) often occurs when soils are not properly acidic. Can be difficult to transplant and establish.			
Common Varieties					
Where to See		Northeastern North America			







Class II		Bur Oak			
Quercus macrocarpa					
			Family	Fagaceae	
			Form	Round	
			Size	80' Spread 80' Height	
			Fall Color	Yellowish-brown	
			Seed		
			Flower	Insignificant	
Characteristics		A large, deciduous tree, somewhat columnar in youth, broad crown with age, equal of greater spread at maturity, equal of greater spread at maturity			
Growing Conditions		Zone: 3 to 8			
Growth Rate					
Disease and Pests		Susceptible to a large number of diseases, including oak wilt, chestnut blight, shoestring root rot, anthracnose, oak leaf blister, cankers, leaf spots and powdery mildew. Potential insect pests include scale, oak skeletonizer, leaf miner, galls, oak lace bugs, borers, caterpillars and nut weevils. Notwithstanding the aforementioned, bur oak is generally considered to be a low-maintenance, long-lived tree.			
Common Varieties					
Where to See		Northern and central United States, southeastern Canada			








Class II	English Oak				
Quercus robur Fastigiata					
			Family	Fagaceae	
			Form	Round	
			Size	70' Spread 70' Height	
			Fall Color	Yellowish-green	
			Seed		
			Flower	Insignificant	
Characteristics		A large, deciduous tree, somewhat columnar in youth, broad crown with age, equal of greater spread at maturity, equal of greater spread at maturity			
Growing Conditions		Zone: 5 to 8			
Growth Rate		Average			
Disease and Pests		Powdery mildew can be significant, however, particularly in humid climates such as the St. Louis area. Oaks in general are susceptible to a large number of diseases, including oak wilt, chestnut blight, shoestring root rot, anthracnose, oak leaf blister, cankers, leaf spots and powdery mildew. Potential insect pests include scale, oak skeletonizer, leaf miner, galls, oak lace bugs, borers, caterpillars and nut weevils.			
Common Varieties					
Where to See		Europe, southwestern Asia			






Class II	Black Locust					
Robinia pseudoacacia						
			Family	Fabaceae		
			Form	Narrow oblong		
			Size	35' Spread 50' Height		
			Fall Color	Leaves drop a yellowish-green		
			Seed			
			Flower	Showy, Fragrant		
Characteristics		A medium-sized deciduous tree, an upright tree with a somewhat narrow crown that is widest near the top, branching is upright to irregular, many consider the branching to be unique and picturesque				
Growing Conditions		Zone: 3 to 8				
Growth Rate		Average				
Disease and Pests		A very easy-to-grow tree. It thrives in many difficult growing conditions. It is also sometimes considered to be somewhat weedy. Trees send out long underground root suckers that not only become a maintenance problem but also can disrupt nearby gardening areas. It is susceptible to locust borer (often fatal) and locust leaf miner (browns foliage). Other insect problems include caterpillars, weevils, scale and whiteflies. Possible disease problems include canker, powdery mildew, leaf spots, wood rots and verticillium wilt.				
Common Varieties						
Where to See		Eastern and central United States				

Class II	Idaho Locust				
Robinia xambigua 'idahoensis'					
 		Family	Fabaceae		
		Form	Round		
		Size	30' Spread 40' Height		
		Fall Color	Yellow, Green		
		Seed			
		Flower	Showy, red		
Characteristics	A graceful deciduous tree prized its gorgeous, pendulous, clusters of pink flowers and rugged constitution.				
Growing Conditions	Zone: 4 to 8				
Growth Rate	Fast				
Disease and Pests					
Common Varieties					
Where to See	North America and Mexico				

Class II		Japanese Pagoda Tree			
Sophora japonica					
		Family	Fabaceae		
		Form	Round		
		Size	75' Spread 75' Height		
		Fall Color	Greenish yellow		
		Seed			
		Flower	Showy		
Characteristics		A deciduous medium to large tree, spread equals height, rounded shape, branching is upright and spreading and eventually nearly arching over			
Growing Conditions		Zone: 4 to 8			
Growth Rate		Medium			
Disease and Pests		No serious insect or disease problems. Twig blight, verticillium wilt, canker, powdery mildew and rust may occur. Watch for leaf hoppers.			
Common Varieties					
Where to See		China and Korea			







Class II	Mountain Ash				
Sorbus americana					
		Family	Rosaceae		
		Form	Round		
		Size	25' Spread 30' Height		
		Fall Color	Yellow		
		Seed			
		Flower	Showy		
Characteristics	A small, deciduous, with an open rounded crown. It is noted for its attractive form, white spring flowers, serrate compound-pinnate leaves and bright orange-red fall fruit.				
Growing Conditions	Zone: 3 to 6				
Growth Rate					
Disease and Pests	Bacterial fireblight can be a severe problem, causing scorched leaves at the branch ends. Scab can cause significant defoliation. Cankers, crown gall, powdery mildew and rust may also occur. Insect visitors include borers, aphids, sawfly and scale. Stressed trees are generally more susceptible to attack from canker and borers.				
Common Varieties					
Where to See	Eastern North America				








Class II		Bald Cypress			
Taxodium distichum					
		Family	Cupressaceae		
		Form			
		Size	8' Spread 20' Height		
		Fall Color	Russet orange-red		
		Seed			
		Flower	Non-flowering		
Characteristics		A deciduous conifer, pyramidal to conical, especially when young, some older trees develop spreading, irregular, or almost flat-topped forms, some older trees develop spreading, irregular, or almost flat-topped forms			
Growing Conditions		Zone: 4 to 9			
Growth Rate		Medium			
Disease and Pests		Interesting landscape specimen or accent. Foundations, near patios or in small garden areas. Tolerates placement in moist soils or low spots.			
Common Varieties		Twig blight and rots may occur. Watch for spider mites.			
Where to See		Albany, Auckland, New Zealand			








Class II		American Elm			
Ulmus Americana					
		Family	Ulmaceae		
		Form	Broad-Rounded		
		Size	70' Spread 80' Height		
		Fall Color	Reddish-green		
		Seed			
		Flower	Insignificant		
Characteristics		Large, deciduous tree, narrow with numerous branches covering trunk, columnar, medium growth rate			
Growing Conditions		Zone: 2 to 9			
Growth Rate		Average			
Disease and Pests		A fatal fungal disease spread by airborne bark beetles, attacks the water-conducting tissue of the tree, resulting in wilting, defoliation and death. Phloem necrosis is a disease caused by a phytoplasma that attacks the food-conducting tissue of the tree, usually resulting in a loosening of the bark, wilting, defoliation and death. Wetwood is a bacterial disease that results in wilting and dieback. Various wilts, rots, cankers and leaf spots may also occur. Insect visitors include borers, leaf miner, beetles, mealy bugs, caterpillars and scale.			
Common Varieties					
Where to See		Eastern North America			







CLASS III








These trees are large sized trees that are long-lived and have large heights and trunk diameters. These trees are not for planting under or near power lines or in parking strips that are less than 10 feet wide. Typical spacing between Class III trees is 50 feet or more.








Class III		Black Maple					
Acer nigrum							
 		Family	Aceraceae				
		Form	round, pyramidal				
		Size	45' Spread 60' Height				
		Fall Color	Yellow to brownish yellow				
		Seed					
		Flower	Light yellow to white				
Characteristics		Is very similar in appearance to sugar maple. It is a large, deciduous tree with ascending branching					
Growing Conditions		Zones 4-8 Withstands high soil pH					
Growth Rate		Medium					
Disease and Pests							
Common Varieties		Commemoration', 'Legacy'.					
Where to See		North central and northeastern North American					








Class III		Common Horsechestnut				
Aesculus hippocasatanum						
			Family	Hippocastanaceae		
			Form	Upright oval-rounded		
			Size	65' Spread 75' Height		
			Fall Color	Yellow-brown		
			Seed	Shiny, brown		
			Flower	White to light yellow		
Characteristics		A medium to large deciduous tree				
Growing Conditions		Zones 3-7, grown in average, medium, well-drained soils in full sun to part shade.				
Growth Rate		Medium				
Disease and Pests		Leaf blotch, Powdery mildew, anthracnose, bagworms, Japanese beetles and borers				
Common Varieties		Baumanii'.				
Where to See						

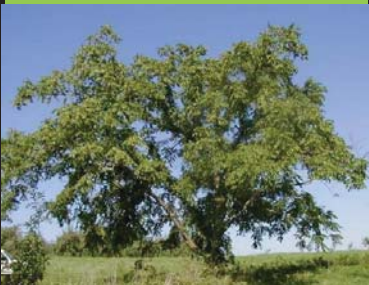







Class III		Avalanche Birch				
Betula x 'Avalzam'						
			Family	Betulaceae		
			Form	Oval		
			Size	30' Spread 50' Height		
			Fall Color	Yellow		
			Seed			
			Flower	Insignificant		
Characteristics	It has a low canopy with a typical clearance of 3 feet from the ground, and should not be planted underneath power lines. It grows at a fast rate					
Growing Conditions	Zones 2-8, This tree does best in full sun to partial shade.					
Growth Rate	Fast growing					
Disease and Pests	Has higher than average resistance to bronze birch borer					
Common Varieties						
Where to See						








Class III		Northern Catalpa				
Catalpa speciosa						
			Family	Bignoniaceae		
			Form	Open-rounded to narrow-oval		
			Size	50' Spread 70' Height		
			Fall Color	Yellow-brown		
			Seed	Winged		
			Flower	Trumpet-like; white with yellow and purple spots		
Characteristics		A large, but fairly narrow-crowned tree with beautiful white flowers and an interesting, though messy, fruit.				
Growing Conditions		Zones 4-9 tolerant of wet or dry and high pH soils				
Growth Rate		High				
Disease and Pests		Susceptible to verticillium wilt, leaf spots, mildew and twig blight				
Common Varieties		'Aurea', 'Koehnei', 'Nana', 'Pulverulenta', 'Purpurea', 'Variegata'.				
Where to See						







Class III		Hackberry				
Celtis occidentalis						
			Family	Cannabaceae		
			Form	Rounded		
			Size	60' Spread 60' Height		
			Fall Color	Yellow		
			Seed	Round, brown		
			Flower	Monoecious, greenish		
Characteristics		A medium to large sized deciduous tree. it typically occurs statewide in low woods along streams and in drier upland slopes				
Growing Conditions		Zones 2-9, Best grown in moist, organically rich, well-drained soils in full sun.				
Growth Rate		High				
Disease and Pests		Powdery mildew, leaf spot and root rot may occur. Watch for lacebugs and scale.				
Common Varieties		Chicagoland', 'Delta', 'Prairie Pride', 'Windy City'.				
Where to See		Central and northeastern North America				







Class III		American Beech			
Fagus grandifolia					
			Family	Fagaceae	
			Form	Upright-oval to rounded-spreading	
			Size	80' Spread 80' Height	
			Fall Color	Golden bronze	
			Seed	Triangular nuts enclosed by spiny bracts	
			Flower	Monoecious yellowish green	
Characteristics	It is a large deciduous tree, is a low-branched.				
Growing Conditions	Zones 3-9. Best grown in deep, rich, moist but well-drained soils in full sun to part shade.				
Growth Rate	Low				
Disease and Pests	No serious insect or disease problems. Beech scale is an occasional problem.				
Common Varieties	Cameron', 'Diamond Bark'.				
Where to See	Eastern North America				








Class III		Kentucky Coffee Tree				
Gymnocladus dioicus						
			Family	Fagaceae		
			Form	Oval		
			Size	55' Spread 80' Height		
			Fall Color	Yellow		
			Seed	Flattened reddish brown pods		
			Flower	Greenish white		
		Characteristics		Is a tall deciduous tree with rough, scaly gray-brown bark and large bipinnate compound leaves. Native Americans roasted the seeds for food.		
Growing Conditions		Zones 3-8. Best grown in moist, organically rich, well-drained soils in full sun.				
Growth Rate		Medium				
Disease and Pests		No serious insect or disease problems.				
Common Varieties		Espresso', 'Prairie Titan', 'Stately Manor'.				
Where to See		Central and eastern North America				








Class III		Butternut					
Juglans cinerea							
			Family	Juglandaceae			
			Form	Oval			
			Size	60' Spread 60' Height			
			Fall Color	Undistinguished yellow			
			Seed	Edible oval nuts encased in hairy indehiscent husks			
			Flower	Yellowish green monoecious			
Characteristics		Is not commonly grown as an ornamental but it is a valued native American tree that is unfortunately becoming increasingly rare in the wild					
Growing Conditions		Zones 3-7. Prefers moist, organically rich, well-drained soils in full sun. Intolerant of shade.					
Growth Rate		Medium					
Disease and Pests		Susceptible to butternut dieback or butternut canker (<i>Sirococcus clavigignenti-juglandacearum</i>), a fatal fungal disease that is devastating butternut trees in the wild.					
Common Varieties							
Where to See		Northeastern United States					

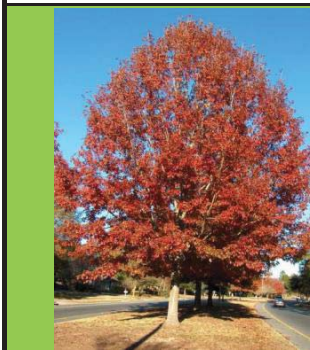






Class III		Tulip Tree				
Liriodendron tulipifera						
			Family	Magnoliaceae		
			Form	Pyramidal to broad conical		
			Size	50' Spread 90' Height		
			Fall Color	Nice yellow		
			Seed	Winged		
			Flower	Large, green-yellow		
Characteristics		Is a large, stately, deciduous tree, Wood is used inter alia for furniture, plywood, boatbuilding, paper pulp and general lumber				
Growing Conditions		Zones 4-9 Best grown in moist, organically rich, well-drained loams in full sun.				
Growth Rate		High				
Disease and Pests		Aphids and scale. Potential diseases include verticillium wilt, mold, mildew and canker.				
Common Varieties		Ardis', 'Arnold', 'Aureomarginatum', 'Compactum', 'Emerald City', 'Fastigiatum', 'Integrifolium', 'Mediopictum'.				
Where to See		Eastern North America				









Class III		Sycamore				
Platanus occidentalis						
			Family	Platanaceae		
			Form	Pyramidal to broad conical		
			Size	100' Spread 100' Height		
			Fall Color	Undistinguished yellow-brown		
			Seed			
			Flower	Yellowish and reddish.		
Characteristics		Regarded to be the most massive tree indigenous to eastern North America. It is a deciduous, usually single-trunk tree				
Growing Conditions		Zones 4-9, Easily grown in average, medium to wet, well-drained soils in full sun				
Growth Rate		High				
Disease and Pests		Sycamore anthracnose, Canker, leaf spot, powdery mildew, borers, scale, Japanese beetles, caterpillars and mites.				
Common Varieties		Howard'.				
Where to See		Southeastern United States				








Class III		London Planetree				
Platanus x acerfolia						
			Family	Platanaceae		
			Form	Pyramidal to broad conical		
			Size	75' Spread 100' Height		
			Fall Color	Yellow-brown		
			Seed			
			Flower	Yellowish and reddish.		
Characteristics		London planetree is a hybrid cross between American sycamore (P. occidentalis) and Oriental planetree (P. orientalis).				
Growing Conditions		Zones 4-9, Easily grown in average, medium to wet, well-drained soils in full sun				
Growth Rate		High				
Disease and Pests		Canker, leaf spot, powdery mildew, borers, scale, Japanese beetles, caterpillars and mites.				
Common Varieties		Bloodgood', 'Columbia', 'Liberty', 'Mirkovec', 'Yarwood'.				
Where to See						







Class III		Chinkapin Oak			
Quercus muhlenbergii					
			Family	Fagaceae	
			Form	Oval	
			Size	70' Spread 60' Height	
			Fall Color	Undistinguished shades of yellow and brown	
			Seed	Acorn	
			Flower	Yellowish-green	
Characteristics		Medium sized deciduous oak of the white oak group			
Growing Conditions		Zones 4-7, Easily grown in average, medium, well-drained soils in full sun.			
Growth Rate		Medium			
Disease and Pests		Oak wilt, chestnut blight, shoestring root rot, anthracnose, oak leaf blister, cankers, leaf spots, powdery mildew scale, oak skeletonizer, leaf miner, galls, oak lace bugs, borers, caterpillars and nut weevils			
Common Varieties					
Where to See		Eastern United States			








Class III	Northern Red Oak				
Quercus rubra					
 		Family	Fagaceae		
		Form	Irregular		
		Size	75' Spread 75' Height		
		Fall Color	Brownish-red		
		Seed	Acorn		
		Flower	Monoecious		
Characteristics	A medium sized, deciduous tree				
Growing Conditions	Zone 4 to 8 Easily grown in average, dry to medium moisture, acidic soil in full sun. Prefers fertile, sandy, finely-textured soils with good drainage.				
Growth Rate	Moderate-to-fast				
Disease and Pests	Oak wilt which is a systemic fungal disease that has no cure. Chlorosis				
Common Varieties	Aurea', 'Splendens'.				
Where to See	Eastern North America				






Class III		Shumard Oak				
Quercus shumardii						
 		Family	Fagaceae			
		Form	Pyramidal to broad			
		Size	40' Spread 60' Height			
		Fall Color	Deep red			
		Seed	Acorn			
		Flower	Insignificant			
Characteristics		Medium sized, deciduous tree of the red oak group				
Growing Conditions		Zone 5 to 9, grown in average, dry to medium moisture, acidic, well-drained soils in full sun				
Growth Rate		Moderately fast				
Disease and Pests		Anthracnose, canker, leaf spot, rust, blight, galls, caterpillars, borers, leaf miners, oak lace bug and oak mite				
Common Varieties						
Where to See		Southeastern United States				

Class III		American Linden				
Tilia americana						
			Family	Tiliaceae		
			Form	Conical		
			Size	55' Spread 35' Height		
			Fall Color	Green or yellowish		
			Seed			
			Flower	Light yellow		
Characteristics		Large shade tree, with nice, fragrant flowers and pleasing foliage.				
Growing Conditions		Zones 2-9 does well on soils with fairly high pH				
Growth Rate		Medium				
Disease and Pests		Free of most serious pests, though aphids can be a nuisance in some years.				
Common Varieties		Bailyard', 'Boulevard', 'Dakota' 'Douglas', 'Fastigiata', 'Lincoln', 'Redmond', 'Rosehill', 'Sentry', 'Wandell'.				
Where to See		Northern and Eastern U.S.				

Class III		Silver Lndon				
Tilia tomentosa						
			Family	Tiliaceae		
			Form	Conical		
			Size	50' Spread 70' Height		
			Fall Color	Yellow		
			Seed			
			Flower	Pale yellow		
Characteristics		This is a medium to large deciduous tree. When a tree is in full bloom, bees often visit in such abundant numbers that humming can be heard many feet from the tree				
Growing Conditions		Zone 4 to 7 Easily grown in average, dry to medium, well-drained soils in full sun to part shade.				
Growth Rate		Medium				
Disease and Pests		No serious insect or disease problems				
Common Varieties		Brabant', 'Erecta', Green Mountain®, 'Satin Shadow', 'Sterling'.				
Where to See		Southeast Europe to Asia Minor				


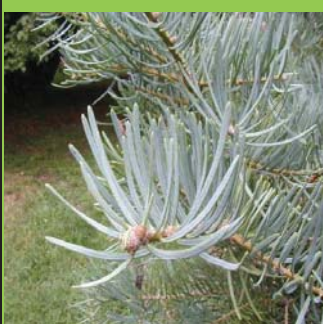



Class III		Lacebark Elm					
Ulmus parvifolia							
 		Family	Ulmaceae				
		Form	Rounded				
		Size	40' Spread 50' Height				
		Fall Color	Yellows or reddish-purples				
		Seed					
		Flower	Reddish-green				
Characteristics		A medium-sized deciduous tree, It is noted for its excellent foliage, multi-colored bark					
Growing Conditions		Zone 4 to 9 Grow in average, medium moisture, well-drained soils in full sun					
Growth Rate		Rapid					
Disease and Pests		Wilts, rots, cankers and leaf spots					
Common Varieties		'Burgundy', 'Caitlin', 'Central Park Splendor', 'Drake', 'Dynasty', 'Emerald Isle', 'Emerald Vase', 'Golden Ray', 'King's Choice', 'Ohio', 'Prairie Shade'.					
Where to See		China, Korea, Japan					






Class III		Japanese Zelkova					
Zelkova serrata							
			Family	Ulmaceae			
			Form	Vase-shaped			
			Size	80' Spread 80' Height			
			Fall Color	Yellow-orange to red-brown			
			Seed				
			Flower	Green			
Characteristics		A medium to large deciduous tree					
Growing Conditions		Zone 5 to 8 Easily grown in average, medium wet, well-drained soils in full sun					
Growth Rate		Rapid					
Disease and Pests		No serious insect or disease problems					
Common Varieties		'City Sprite', 'Goshiki', 'Green Vase', 'Halka', 'Musashino', 'Schmidtlow', 'Spring Grove', 'Variegata', 'Village Green'.					
Where to See		China, Japan, Korea, Russia, Taiwan					






Class III	Green Ash				
Fraxinus pennsylvanica					
 		Family	Oleaceae		
		Form	Rounded but usually irregular crown		
		Size	50' Spread 70' Height		
		Fall Color	Yellow		
		Seed			
		Flower	Small and inconspicuous, arranged in clusters; appear in spring as leaves expand.		
Characteristics		A medium to large, deciduous tree, oval, upright crown, fast growth rate			
Growing Conditions		Zone: 3 to 9			
Growth Rate		High			
Disease and Pests		Green ash trees are generally susceptible to a number of additional insect problems including ash borer, lilac borer, carpenter worm, oyster shell scale, leaf miners, fall webworms, ash sawflies and ash leaf curl aphid. Potential disease problems include fungal leaf spots, powdery mildew, rust, anthracnose, cankers and ash yellows. General ash decline is also a concern. Brittle branches are susceptible to damage from			
Common Varieties		'Jewell', 'Johnson', 'Kankakee', 'Kindred', 'King Richard', 'Lednaw', 'Leeds', 'Marshall's Seedless', 'Patmore', 'Rugby', 'Robinhood', Sherwood Glen™, 'Summit', Urbanite®, 'Wahpeton', 'Wandell'			
Where to See		Great Plains east, including southern Canada			







EVERGREEN






These trees are evergreen and hold their needles through the winter providing color through the cold months. These trees also provide wind breaks and great habitats for animals. Evergreen trees range in spread and height. Evergreen trees should not be planted in park strips or parking island areas.








Evergreen		White Fir			
Abies concolor					
			Family	Pinaceae	
			Form	Spire-like	
			Size	30' Spread 70' Height	
			Fall Color	No fall color (evergreen)	
			Seed		
			Flower	Non-flowering	
Characteristics		Evergreen tree, pyramidal in shape, holding a dense, formal shape well, even with age, slow to medium growth rate, easily transplanted, tolerant of most climates and city conditions			
Growing Conditions		Zone: 3 to 7			
Growth Rate		Medium			
Disease and Pests		No serious insect or disease problems. Insect pests include balsam woolly adelgid, bark beetles, spruce budworms, aphids, bagworms and scale. Spider mites may occur in hot conditions. Disease problems include root rot, needle rust and twig blight. Trees are generally intolerant of urban pollution. Broken branches often become sites for fungal infections. Strong winds may damage taller trees.			
Common Varieties					
Where to See		United States, Mexico			







Evergreen	California Incense cedar			
Calocedrus decurrens				
 		Family	Cupressaceae	
		Form	Round	
		Size	10' Spread 50' Height	
		Fall Color	No fall color (evergreen)	
		Seed		
		Flower	Non-flowering	
Characteristics	Is an aromatic evergreen conifer with upright branching that is narrow-columnar in youth but may broaden with age to conical sometimes with a rounded crown.			
Growing Conditions	Zone: 5 to 8			
Growth Rate	Low			
Disease and Pests	No serious insect or disease problems. Heart rot and rust may occur in some areas.			
Common Varieties				
Where to See	Western United States, Mexico			









Evergreen	Blue Atlas Cedar				
Cedrus atlantica glauca					
 		Family	Pinaceae		
		Form	Conical		
		Size	40' Spread 60' Height		
		Fall Color	No fall color (evergreen)		
		Seed			
		Flower	Non-flowering		
Characteristics		Evergreen needle conifer, pyramidal when young, flat-topped and spreading when mature, has stiff, horizontal main branching; branching somewhat sparse, especially when young, very interesting and picturesque habit as a mature tree			
Growing Conditions		Zone: 6 to 9			
Growth Rate		Low			
Disease and Pests		No serious insect or disease problems. Tip blight may occur. Heavy snow in winter can break branches.			
Common Varieties		'Argentea', 'Aurea', 'Compacta', 'Fastigiata', 'Glauc', 'Glauc Pendula', 'Horstmann', 'Horstmann Silberspitz', 'Pendula'			
Where to See		Atlas Mountains in Morocco and Algeria			









Evergreen	Chinese Juniper				
Juniperus chinensis					
 		Family	Cupressaceae		
		Form	Round		
		Size	20' Spread 50' Height		
		Fall Color	No fall color (evergreen)		
		Seed			
		Flower	Non-flowering		
Characteristics		Tree, shrub or groundcover, dependent on cultivar, species an erect, narrow, conical tree, 50' to 60' tall, varying in width, slow to medium growth			
Growing Conditions		Zone: 4 to 9			
Growth Rate		Medium			
Disease and Pests		No serious insect or disease problems. Junipers are generally susceptible to tip and needle blights. Cedar-apple rust and related rust diseases spend part of their life cycle on junipers. Root rot may occur, particularly in wet, poorly drained soils. Canker may attack bark or main stems. Occasional insect pests include aphids, bagworms, webworms and scale.			
Common Varieties		'Blue Point', 'Glauc', 'Gold Coast', 'Gold Star', 'Hetzii', 'Hetzii Columnaris', 'Hetzii Glauc', 'Iowa', 'Keteleen', 'Maney', 'Mint Julep', 'Mountbatten', 'Old Gold', 'Pfitzeriana', 'Pfitzeriana Aurea', 'Pfitzeriana Compacta', 'Pfitzeriana Glauc', 'Prostrata Variegata', 'Ramlosa', 'Robusta Green', 'San Jose', 'Saybrook Gold', 'Sea Green', 'Sea Spray', 'Spartan', 'Spearmint', 'Torulosa', var. sargentii, 'Variegata'			
Where to See		China, Japan, Mongolia and the Himalayas			






Evergreen	Rocky Mountain Juniper			
Juniperus osteosperma				
		Family	Cupressaceae	
		Form	Conical	
		Size	6' Spread 15' Height	
		Fall Color	No fall color (evergreen)	
		Seed		
		Flower	Non-flowering	
Characteristics	Narrow, conical shape, opening when mature, branches are somewhat vertical growing, slow to moderate growth rate, tolerant of most conditions , except wet soils			
Growing Conditions	Zone: 3 to 7			
Growth Rate	Medium			
Disease and Pests	No serious insect or disease problems. Junipers are generally susceptible to blights (dieback of stem tips), particularly in unusually rainy/wet springs. Phomopsis twig blight is of particular concern. Cedar-apple and related rust diseases spend part of their life cycle on junipers. Root rot may occur, particularly in wet, poorly drained soils. Occasional insect pests include aphids, bagworms, twig borers, webworms and scale. Watch for spider mites.			
Common Varieties	Blue Creeper', 'Blue Heaven', 'Blue Trail', 'Cologreen', 'Gray Gleam', 'Medora', 'Moonglow', 'Pathfinder', 'Skyrocket', 'Sutherland', 'Tolleson', 'Tolleson's Blue Weeping', 'Tolleson's Green Weeping', 'Welchii', 'Wichita Blue'			
Where to See	Western Great Plains throughout the Rocky Mountains and southwestern Canada, including Utah			

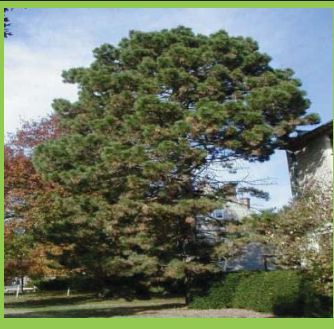







Evergreen	Eastern Red Cedar				
Juniperus virginiana					
		Family	Cupressaceae		
		Form	Conical		
		Size	25' Spread 65' Height		
		Fall Color	No fall color (evergreen)		
		Seed			
		Flower	Non-flowering		
Characteristics		Conical shape in youth, opening with age, moderate growth rate, susceptible to bagworm and cedar-apple rust			
Growing Conditions		Zone: 2 to 9			
Growth Rate		Medium			
Disease and Pests		A common problem for many different junipers, but this cultivar has good resistance. Susceptible to twig blight and scale. Watch for bagworms. Mites may occur.			
Common Varieties					
Where to See		Eastern North America			








Evergreen	European Larch				
Larix decidua					
			Family	Pinaceae	
			Form	Broad	
			Size	30' Spread 100' Height	
			Fall Color	No fall color (evergreen)	
			Seed		
			Flower	Non-flowering	
Characteristics		Deciduous conifer, pyramidal in habit with horizontal branches and weeping branchlets, becomes more irregular with age			
Growing Conditions		Zone: 2 to 6			
Growth Rate		High			
Disease and Pests		Potential insect pests include larch case-bearer, aphids, larch sawfly, tussock moth and Japanese beetle. Potential disease problems include needle cast, needle rust and canker.			
Common Varieties		Fastigiata', 'Pendula', 'Varied Directions'			
Where to See		Central and Southern Europe			









Evergreen		Colorado Spruce			
Picea pungens					
			Family	Pinaceae	
			Form	Broad	
			Size	20' Spread 60' Height	
			Fall Color	No fall color (evergreen)	
			Seed		
			Flower	Non-flowering	
Characteristics		Evergreen tree with horizontal, stiff branches, narrow, dense, conical shape, branches tend to go to the ground			
Growing Conditions		Zone: 2 to 7			
Growth Rate		Medium			
Disease and Pests		Susceptible to needle cast, canker and rust. Watch for aphids (particularly spruce gall aphids), scale, budworms and bagworms. Spider mite invasions can cause significant problems with new growth and overall tree health.			
Common Varieties					
Where to See		Southern Rocky Mountains			






Evergreen		Bristlecone Pine			
Pinus aristata					
 		Family	Pinaceae		
		Form	Conical		
		Size	20' Spread 20' Height		
		Fall Color	No fall color (evergreen)		
		Seed			
		Flower	Non-flowering		
Characteristics	Evergreen small tree,dwarf and irregular growth habit, dwarf and irregular growth habit, very slow growth rate, making mature height irrelevant				
Growing Conditions	Zone: 5-7				
Growth Rate	Low				
Disease and Pests					
Common Varieties	'Sherwood Compact'				
Where to See	mountainous areas in the interior West, including Utah				





Evergreen	Limber Pine				
Pinus flexilis					
 		Family	Pinaceae		
		Form	Conical		
		Size	40' Spread 60' Height		
		Fall Color	No fall color (evergreen)		
		Seed			
		Flower	Non-flowering		
Characteristics	Evergreen needle conifer, about half as wide as tall, dense, pyramidal when young, when mature, develops as flat-topped broad crown ascending				
Growing Conditions	Zone: 4 to 7				
Growth Rate	Low				
Disease and Pests	An adaptable, low-maintenance tree with few problems. It is susceptible to certain rots and blights, but its most dangerous enemy is white pine blister rust which is a bark disease that is usually fatal. Species of Ribes (e.g., currants and gooseberries) are the alternate host for white pine blister rust and should not be planted in areas where limber pines or white pines are under attack. White pine blister rust is not considered to be a problem in Missouri, however. Aphids, weevils, spider mites and scale are not uncommon insect visitors.				
Common Varieties	'Columnaris', 'Extra Blue', 'Glauca', 'Glauca Pendula', 'Glenmore Dwarf', 'Millcreek', 'Nana', 'Pendula', 'Vanderwolf's Pyramid'				
Where to See	Southwestern Canada to western United States				

Evergreen	Austrian Pine					
Pinus nigra						
 		Family	Pinaceae			
		Form	Round			
		Size	40' Spread 60' Height			
		Fall Color	No fall color (evergreen)			
		Seed				
		Flower	Non-flowering			
Characteristics	Evergreen needle conifer tree, medium to large size, pyramidal and dense when young, with age becoming flat-topped, with spreading branches and umbrella shape					
Growing Conditions	Zone: 4 to 7					
Growth Rate	Medium					
Disease and Pests	Its susceptibility to Sphaeropsis (Diplodia) tip blight, particularly in the midwest, is of such significance that planting it in the St. Louis area is not now recommended. Also susceptible to Dothistroma needle blight. Pine moth and pine wilt nematode may appear.					
Common Varieties	Arnold Sentinel', 'ENCI', 'Hornibrookiana', 'Pyramidalis'					
Where to See	Central and Southern Europe					

Evergreen	Ponderosa Pine				
Pinus ponderosa					
 		Family	Pinaceae		
		Form	Conical		
		Size	30' Spread 125' Height		
		Fall Color	No fall color (evergreen)		
		Seed			
		Flower	Non-flowering		
Characteristics		An evergreen tree, narrow, upright, oval form in youth opens up into an irregular crown, fine to medium texture			
Growing Conditions		Zone: 3 to 7			
Growth Rate		Medium			
Disease and Pests		These trees may struggle in the St. Louis area where hot summer, soils and general environmental conditions do not favor most pines. Root rots, needle blight and blister rust may occur. Bark beetle can cause significant damage.			
Common Varieties		'Canyon Ferry', 'Gumdrop', 'Hiwan', 'Little Joe', 'Marquerite', 'Mary Ann Heacock', 'Pendula', 'Tortuosa'			
Where to See		Western North America			

Evergreen		Scotch Pine			
Pinus sylvestris					
			Family	Pinaceae	
			Form	Conical	
				40' Spread 60' Height	
			Fall Color	No fall color (evergreen)	
			Seed		
			Flower	Non-flowering	
Characteristics		Evergreen tree, in youth has a conical shape, becoming a flat-topped, spreading tree with age, can be very attractive when mature, horizontal branching habit			
Growing Conditions		Zone: 2 to 7			
Growth Rate		Medium			
Disease and Pests		Sphaeropsis (Diplodia) tip blight can be a significant problem in some areas. Watch for pine wilt nematode. Sawflies, moths and scale may also appear.			
Common Varieties		Aurea', 'Beuvronensis', 'Fastigiata', 'Watereri'			
Where to See		Siberia to eastern Asia, Europe			

Evergreen	Douglas Fir				
Pseudotsuga mensiesii					
 		Family	Pinaceae		
		Form	Conical		
		Size	20' Spread 80' Height		
		Fall Color	No fall color (evergreen)		
		Seed			
		Flower	Non-flowering		
Characteristics	A large evergreen tree,in its native haunts it grows to 150' tall or more, horizontal branches with pendulous branchlets				
Growing Conditions	Zone: 4 to 6				
Growth Rate	Medium				
Disease and Pests	No serious insect or disease problems when grown in the proper environment.				
Common Varieties	'Aurea', 'Blue', 'Carnefix Weeping', 'Compact', 'Cross Selection', 'De Bunn', 'Emerald Twist', 'Fastigiata', 'Fletcheri', 'Graceful Grace', 'Hale', 'Hillside Gold', 'Hillside Pride', 'Jackson's Witch's Broom', 'Little Jon', 'Loggerhead', 'Pendula', 'Seattle Mountain', 'Shorty's Blue', 'Skyline', 'var. glauca', 'Waggin' Tails'				
Where to See	Southwestern British Columbia to western central California				

Evergreen	Giant Sequoia				
Sequoiadendron giganteum					
		Family	Cupressaceae		
		Form	Conical		
		Size	60' Spread 275' Height		
		Fall Color	No fall color (evergreen)		
		Seed			
		Flower	Non-flowering		
Characteristics		Most massive size of any tree in the world. It is an erect, single-trunk (often buttressed at the base), needled evergreen conifer			
Growing Conditions		Zone: 6 to 8			
Growth Rate		Medium			
Disease and Pests		No serious insect or disease problems. Dieback, blight and butt rot may occur.			
Common Varieties		Argentea', 'Aurea', 'Barabit's Requiem', 'Blauer Eichzwerg', 'Bultinck Yellow', 'Compacta', 'Glauca', 'Greenpeace', 'Hazel Smith', 'Little Stan', 'Moonie's Mini', 'Pendulum', 'Power Blue', 'Pygmaea', 'Von Martin'			
Where to See		Californina			

PARK STRIP TREES

Park Strip and Parking Lot Approved Trees:

Common Name

Japanese Zelkova 'Musashino'

Chanticleer Pear

Crimson Sunset Maple

Columnar Washington Hawthorn

Crimson Point Flower plum

Columnar English Oak

Columnar Sweetgum

Autumn Purple Ash

Washington Hawthorn

Tatarian Maple

Trident Maple

Hedge Maple

Golden Raintree

Paperbark Maple

Eastern Redbud

Bigtooth Maple

Norway Maple

Autumn Blaze Maple

Littleleaf Lindon

Common Hackberry

Autumn Purple Ash

COLUMNAR TREES

Columnar Trees:

Common Name

Japanese Zelkova 'Musashino'

Chanticleer Pear

Crimson Sunset Maple

Columnar Washington Hawthorn

Crimson Point Flower Plum

Columnar English Oak

Columnar Sweetgum

Columnar Colorado Blue Spruce

Columnar Norway Spruce

Weeping White Spruce

Skyrocket Juniper

Common Hackberry 'Delta'



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