

1.5. 5-YEAR CAPITAL PROJECT LIST

A. Water System

1. Replace existing Springs Tank with new 250,000 gallon buried concrete tank.

Existing tank is approximately 50 years old and is deteriorating. Repairs have been previously been made to several cracks, and there is currently some leakage from the tank.

2. Replace approximately 2,700 feet of existing waterline on Ash Creek Drive in association with roadway reconstruction.

The existing 8" waterline is several years old and beginning to require repairs. The roadway is proposed to be reconstructed and it is prudent to install a new 10" PVC waterline during construction.

3. Replace approximately 850 feet of waterlines on Pecan Avenue east of Toquerville Boulevard and west of Ash Creek Road in association with roadway reconstruction

The existing waterlines are 6". The roadways are proposed to be reconstructed and it is prudent to install a new 8" PVC waterline during construction.

4. Install approximately 18,000 feet of 16", 14", and 12" water transmission pipeline from Anderson Junction along the Bypass Highway to serve proposed development on the west side of the City.

New waterline will link to future distribution system waterlines installed by developers in the vicinity of the Bypass Highway. Provide pressure reducing controls, based on hydraulic analysis of combined systems.

5. Extend 8" waterline approximately 1,600 feet on Old Church Road from existing west end to new Bypass Highway.

New waterline will link to future distribution system waterlines installed by developers in the vicinity of the Bypass Highway. Provide pressure reducing station, based on hydraulic analysis of combined systems.

6. Replace approximately 4,000 feet of existing waterline on Cholla Drive in association with roadway reconstruction.

The existing waterline installed by developer has numerous deficiencies and has required frequent repairs. The roadway is proposed to be reconstructed and it is prudent to install a new 8" PVC waterline during construction.

7. Replace approximately 1,400 feet of existing waterline on Mountain Charm Road in association with roadway reconstruction.

The existing waterline installed by developer has numerous deficiencies and has required frequent repairs. The roadway is proposed to be reconstructed and it is prudent to install a new 8" PVC waterline during construction. Project will include a segment to loop to the waterline on Peachtree Drive.

B. Streets and Drainage

1. Widen existing bridge on Old Church Road.

Widen to Major Collector Road Standard with 50' travel way and combination curb/gutter and sidewalk on both sides. Roadway is programmed as a future Collector Road to tie to the Bypass Highway. Existing road has 23' travel way and is inadequate for future traffic load.

2. Extend Old Church Road

Existing Old Church Road will become a major collector road to connect the proposed bypass highway with the center of the City. The roadway will be extended from its current west end approximately 1,600 feet to its connection to the bypass highway using a Major Collector Road standard, and will include major drainage provisions.

3. Widen Old Church Road – Ash Creek Drive to current west end

Existing Old Church Road has a pavement width of 24 feet or less. The roadway will be widened to Major Collector Road Standard from the bridge across Ash Creek to the west end. Existing residences limit width from the bridge to Ash Creek Drive, but the pavement will be widened as much as practicable, depending on existing conditions, and parking restrictions applied.

4. Extend Sunset Drive to Bypass Highway

Sunset Drive will connect the west side residential area of the City to the proposed bypass highway. The roadway will be extended from its current west end approximately 2,500 feet to the bypass highway using a Collector Road Standard.

5. Extend South Westfield Road to Bypass Highway

South Westfield Road will connect the southern residential area of the City to the proposed bypass highway. The roadway will be extended from its current south end approximately 1,500 feet to the bypass highway using a Collector Road Standard.

6. Install pedestrian walkway on side of Westfield Road Bridge.

Existing pedestrian walkway is only delineated next to travel way, and is dangerous. Relocated walkway will be protected behind existing parapet. Westfield Road is programmed as a future Collector Road to tie to the Bypass Highway, and traffic volumes will increase significantly.

7. Reconstruct Ash Creek Drive

Ash Creek Drive pavement is deteriorating and requires considerable maintenance (crack sealing). Surface width is only 28'. The road has only side ditches for drainage between intersections. Reconstruction will be to Collector Standard with 45' surfacing, curb/gutters, and sidewalks.

8. Extend storm drain on Ash Creek Drive

Existing storm drain will be extended north from Pecan Avenue to Old Church Road. Inlet boxes will be constructed for new curb/gutter. Existing inlets will be modified as needed to conform to new curb/gutter.

9. Reconstruct the East segment of Pecan Avenue

Existing street has a single paved lane in poor condition, and has poor drainage. Reconstruction will provide a wider paved surface and drainage improvements.

10. Reconstruct the West segment of Pecan Avenue

Existing street is gravel surfaced only. Reconstruction will provide paved surface, combination curb/gutter and sidewalks.

11. Construct turning lane on SR-17 for Cholla Drive

Existing intersection has no provision for traffic to pass vehicles turning left from SR-17 onto Cholla Drive. SR-17 is relatively high speed and traffic must now stop behind left turning vehicles. Sight distance to intersection on SR-17 is limited.

12. Reconstruct Cholla Drive and adjacent cul-de-sac streets

Much of the existing pavement structure is deteriorated and the surfacing does not drain to curb/gutter system. Reconstruction will provide new pavement and replace existing curb/gutter. Minor drainage improvements will be provided.

13. Reconstruct South Ash Creek Drive, Berry Avenue, Pioneer Road, & Brainard Circle (Ash Creek Point)

Much of the existing pavement structure is deteriorated. Reconstruction will provide new pavement section and minor drainage improvements.

14. Reconstruct Mountain Charm Road

Much of the existing pavement structure is deteriorated. Reconstruction will provide new pavement section.

15. Realign Old Highway 91 at Anderson Junction

Existing intersection with SR-17 is close to the Interstate off ramp and is unsafe. Increased traffic will occur at this intersection with completion of the proposed Toquer Reservoir. Realignment will move the intersection approximately 1,000 feet east to a safer location.

16. Realign Anderson Junction Road / 7 C's Lane at Anderson Junction

Existing intersection with SR-17 is close to the Interstate off ramp and is unsafe. Realignment will combine the Anderson Junction Road and 7 C's Lane to move the intersection approximately 1,000 feet east to a safer location.

C. Parks and Trails

1. Construct improvements at City Center Park.

The City has recently made improvements to the bleacher area at the ball diamond. Programmed improvements include an amphitheater/stage house and other amenities that can be constructed as funding becomes available.

2. Construct improvements at Trail Ridge Park

Programmed improvements include a large pavilion, dog park, enlarged soccer field, and site beautification.

3. Construct improvements at Almond Heights Park

Programmed improvements include a small pavilion, restrooms, playground, parking area, and site beautification.

4. Construct paved trail along the new bypass highway.

Programmed trail is a 10' wide paved trail extending approximately 4.4 miles paralleling the new roadway.

5. Construct paved trail along Toquerville Boulevard and Hunter Lane

Programmed trail is a 10' wide paved trail extending approximately 1.3 miles along Toquerville Boulevard, Hunter Lane and down LaVerkin Creek to tie to existing trail at Trail Ridge Park.

6. Construct paved trail along SR-17

Programmed trail is a 10' wide paved trail extending approximately 2.7 miles paralleling SR-17 from Anderson Junction to the north end of the Toquerville core area.

7. Construct paved trail along Old Highway 91 (I-15 Frontage Road)

Programmed trail is a 10' wide paved trail extending approximately 1.8 miles along Old Highway 91 from Anderson Junction to the south City Boundary and tying to the future trail around Toquer Reservoir.

Toquerville City
Table 11: 5-Year Capital Projects List

PROJECT	DESCRIPTION	CONSTRUCTION	CONTINGENCY	ENGINEERING	TOTAL
Project 01 -- Springs Tank Replacement					
CW-01	Replace concrete water tank and appurtenant valves and piping	\$699,800	\$69,980	\$130,863 Project Total	\$900,643 \$900,643
Project 02 -- Bypass Highway Water Transmission Pipeline					
CW-02A	Install 10,000 feet of 16" pipe from Anderson Junction along SR-17 and Bypass Highway	\$603,200	\$60,320	\$112,798	\$776,318
CW-02B	Install 5,000 feet of 14" pipe along the Bypass Highway	\$279,900	\$27,990	\$52,341	\$360,231
CW-02C	Install 3,000 feet of 12" pipe along the Bypass Highway	\$153,300	\$15,330	\$28,667	\$197,297
	Project Total			\$193,826	\$1,333,847
Project 03 -- Ash Creek Drive					
CW-03	Replace 2,700 feet of existing 8" pipe including valves, hydrants, and appurtenances	\$186,600	\$18,660	\$34,894	\$240,154
ST-03	Reconstruct roadway to Collector Road standard with pavement, curb/gutter, and 5' sidewalk	\$696,025	\$69,603	\$130,157	\$895,784
SD-03	Extend storm drain to Old Church Road with inlet boxes and add modifications of existing inlet boxes	\$73,700	\$7,370	\$13,782	\$94,852
	Project Total			\$118,833	\$1,230,790
Project 04 -- Old Church Road					
CW-04	Install 1,600 feet of 8" pipe along new roadway	\$92,400	\$9,240	\$17,279	\$118,919
ST-04A	Widen existing bridge to Major Collector Road Standard	\$340,800	\$34,080	\$63,730	\$438,610
ST-04B	Widen existing roadway from Ash Creek Drive to existing west end to Major Collector Road Standard	\$357,950	\$35,795	\$66,937	\$460,682
ST-04C	Extend roadway 1,600 feet from existing west end to Bypass Highway using Major Collector Road Standard	\$443,100	\$44,310	\$82,860	\$570,270
	Project Total			\$168,906	\$1,588,480
Project 05 -- Sunset Drive					
ST-05	Extend roadway 2,500 feet from existing west end to Bypass highway using Collector Road Standard	\$672,475	\$67,248	\$125,753	\$865,475
	Project Total			\$125,753	\$865,475
Project 06 -- Westfield Road					
ST-06A	Extend roadway 1,500 feet from existing south end to Bypass Highway using Collector Road Standard	\$430,650	\$43,065	\$80,532	\$554,247
ST-06B	Add pedestrian walkway to south side of bridge parapet	\$42,625	\$4,263	\$7,971	\$54,858
	Project Total			\$88,503	\$609,105
Project 07 -- East Pecan Avenue					
CW-07	Replace existing waterline with 8" pipe including valves and fire hydrant	\$19,100	\$1,910	\$4,507	\$25,517
ST-07	Reconstruct roadway to 20' width with surface drainage improvements	\$49,200	\$4,920	\$9,200	\$63,320
	Project Total			\$14,127	\$88,837
Project 08 -- West Pecan Avenue					
CW-08	Replace existing waterline with 8" pipe including valves and fire hydrant	\$29,700	\$2,970	\$5,554	\$38,224
ST-08	Reconstruct roadway to Residential Standard with curb/gutter. Sidewalk on north side only	\$99,700	\$9,970	\$18,644	\$128,314
	Project Total			\$24,198	\$166,538
Project 09 -- Ash Creek Point Roads					
ST-09A	South Ash Creek Drive - Reconstruct existing pavement structure and minor drainage improvements	\$146,500	\$14,650	\$27,396	\$188,546
ST-09B	Berry Avenue - Reconstruct existing pavement structure and minor drainage improvements	\$47,200	\$4,720	\$8,826	\$60,746
ST-09C	Pioneer Road - Reconstruct existing pavement structure and minor drainage improvements (includes 16' wide spur)	\$82,000	\$8,200	\$15,334	\$105,534
ST-09D	Brainard Circle - Reconstruct existing pavement structure and minor drainage improvements	\$27,700	\$2,770	\$5,180	\$35,650
	Project Total			\$56,536	\$390,476
Project 10 -- Mountain Charm Road					
CW-10	Replace existing waterline with 8" pipe including valves and fire hydrant. Loop to Peachtree Drive	\$66,300	\$6,630	\$12,398	\$85,328
ST-10	Mountain Charm Road - Reconstruct existing pavement structure and minor drainage improvements	\$103,900	\$10,390	\$19,429	\$133,719
	Project Total			\$31,827	\$219,047
Project 11 -- Cholla Drive Turn Lane (SR-17)					
ST-11	Construct left turn lane (SB SR-17) and right turn lane (NB SR-17) onto Cholla Drive	\$71,475	\$7,148	\$13,366	\$91,988
	Project Total			\$13,366	\$91,988

Project 12 – Cholla Estates					
CW-12	Replace existing waterlines with 8" pipe including valves and fire hydrants on Cholla Drive and adjacent cul-de-sac streets				
ST-12A	Cholla Drive - Reconstruct existing pavement structure and curb/gutter. Minor drainage improvements	\$315,400	\$31,540	\$58,980	\$405,920
ST-12B	Cane Circle - Reconstruct existing pavement structure and curb/gutter. Minor drainage improvements	\$533,900	\$53,390	\$99,839	\$687,129
ST-12C	Staghorn Street - Reconstruct existing pavement structure and curb/gutter. Minor drainage improvements	\$67,720	\$6,772	\$12,664	\$87,156
ST-12D	Cholla Circle - Reconstruct existing pavement structure and curb/gutter. Minor drainage improvements	\$128,300	\$12,830	\$23,992	\$165,122
ST-12E	Ocotillo Circle - Reconstruct existing pavement structure and curb/gutter. Minor drainage improvements	\$51,680	\$5,168	\$9,664	\$66,512
ST-12F	Ramoso Circle - Reconstruct existing pavement structure and curb/gutter. Minor drainage improvements	\$47,480	\$4,748	\$8,879	\$61,107
		\$47,340	\$4,734	\$8,853	\$60,927
	Project 13 – Old Highway 91			Project Total	\$1,533,872
ST-13	Realign Old Highway 91 at Anderson Junction to move intersection with SR-17 1,000 feet east. Demolish old alignment.	\$276,200	\$27,620	\$51,649	\$355,469
	Project 14 – Anderson Junction Road & 7 C's Road			Project Total	\$355,469
ST-14	Realign Anderson Junction Road and 7 C's Road at Anderson Junction to move intersection with SR-17 1,000 feet east. Demolish old alignment.	\$336,100	\$33,610	\$62,851	\$432,561
	Project 15 – City Center Park			Project Total	\$432,561
PK-15A	City Center Park West Side Improvements	\$196,100	\$19,610	\$36,671	\$252,381
PK-15B	City Center Park East Side Improvements	\$1,219,000	\$121,900	\$227,953	\$1,568,853
	Project 16 – Trail Ridge Park			Project Total	\$1,821,234
PK-16	Construct site improvements for 4.23 acres to include infrastructure and amenities	\$429,300	\$42,930	\$80,279	\$552,509
	Project 17 – Almond Heights Park			Project Total	\$552,509
PK-17	Construct site improvements for .07 acres to include infrastructure and amenities	\$318,000	\$31,800	\$59,456	\$409,266
	Project 18 – Bypass Highway Trail			Project Total	\$409,266
TR-18	Construct paved trail improvements for 23,300 feet along the Bypass Highway	\$704,100	\$70,410	\$131,667	\$906,177
	Project 19 – Toquerville Boulevard / Hunter Lane Trail			Project Total	\$906,177
TR-19	Construct paved trail improvements for 6,700 feet along Toquerville Boulevard and Hunter Lane.	\$187,690	\$18,769	\$35,098	\$241,557
	Project 20 – SR-17 Trail			Project Total	\$241,557
TR-20	Construct paved trail improvements for 14,300 feet along SR-17 from Anderson Junction to Old Church Road	\$519,690	\$51,969	\$97,182	\$668,841
	Project 21 – Old Highway 91 (I-15 Frontage Road) Trail			Project Total	\$668,841
TR-21	Construct paved trail improvements for 9,900 feet along Old Highway 91 from Anderson Junction to south Toquerville boundary	\$313,470	\$31,347	\$58,619	\$403,436
	5-YEAR CAPITAL PROJECTS TOTAL COST			Project Total	\$403,436
					\$12,610,826

Toquerville City
Table 11: 5-Year Capital Projects List by Type of Project

PROJECT	DESCRIPTION	CONSTRUCTION	CONTINGENCY	ENGINEERING	TOTAL
WATER PROJECTS					
Project 01 -- Springs Tank Replacement					
CW-01	Replace concrete water tank and appurtenant valves and piping	\$699,800	\$69,980	\$130,863	\$900,643
Project 02 -- Bypass Highway Water Transmission Pipeline					
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Project 03 -- Ash Creek Drive					
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Project 07 -- East Pecan Avenue					
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Project 08 -- West Pecan Avenue					
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Project 10 -- Mountain Charm Road					
CW-10	Replace existing waterline with 8" pipe including valves and fire hydrant. Loop to Peschtrees Drive	\$66,300	\$6,630	\$12,398	\$85,328
Project 12 -- Cholla Estates					
CW-12	Replace existing waterlines with 8" pipe including valves and fire hydrants on Cholla Drive and adjacent cul-de-sac streets	\$315,400	\$31,540	\$58,980	\$405,920
				WATER PROJECTS TOTAL	\$3,148,551
STORM DRAIN PROJECTS					
Project 03 -- Ash Creek Drive					
SD-03	Extend storm drain to Old Church Road with inlet boxes and add modifications of existing inlet boxes	\$73,700	\$7,370	\$13,782	\$94,852
				STORM DRAIN PROJECTS TOTAL	\$94,852
STREET PROJECTS					
Project 03 -- Ash Creek Drive					
ST-03	Reconstruct roadway to Collector Road standard with pavement, curb/gutter, and 5' sidewalk	\$696,025	\$69,603	\$130,157	\$895,784
Project 04 -- Old Church Road					
ST-04A	Widen existing bridge to Major Collector Road Standard	\$340,800	\$34,080	\$63,730	\$438,610
ST-04B	Widen existing roadway from Ash Creek Drive to existing west end to Major Collector Road Standard	\$357,950	\$35,795	\$66,937	\$460,682
ST-04C	Extend roadway 1,600 feet from existing west end to Bypass Highway using Major Collector Road Standard	\$443,100	\$44,310	\$82,860	\$570,270
Project 05 -- Sunset Drive					
ST-05	Extend roadway 2,500 feet from existing west end to Bypass Highway using Collector Road Standard	\$672,475	\$67,248	\$125,753	\$865,475
Project 06 -- Westfield Road					
ST-06A	Extend roadway 1,500 feet from existing south end to Bypass Highway using Collector Road Standard	\$430,650	\$43,065	\$80,532	\$554,247
ST-06B	Add pedestrian walkway to south side of bridge parapet	\$42,625	\$4,263	\$7,971	\$54,858
Project 07 -- East Pecan Avenue					
ST-07	Reconstruct roadway to 20' width with surface drainage improvements	\$49,200	\$4,920	\$9,200	\$63,320
Project 08 -- West Pecan Avenue					
ST-08	Reconstruct roadway to Residential Standard with curb/gutter. Sidewalk on north side only	\$99,700	\$9,970	\$18,644	\$128,314

Project 09 – Ash Creek Point Roads					
ST-09A	South Ash Creek Drive - Reconstruct existing pavement structure and minor drainage improvements	\$146,500	\$14,650	\$27,396	\$188,546
ST-09B	Berry Avenue – Reconstruct existing pavement structure and minor drainage improvements	\$47,200	\$4,720	\$8,826	\$60,746
ST-09C	Pioneer Road – Reconstruct existing pavement structure and minor drainage improvements (includes 16' wide spur)	\$82,000	\$8,200	\$15,334	\$105,534
ST-09D	Brainard Circle – Reconstruct existing pavement structure and minor drainage improvements	\$27,700	\$2,770	\$5,180	\$35,650
Project 10 – Mountain Charm Road					
ST-10	Mountain Charm Road – Reconstruct existing pavement structure and minor drainage improvements	\$103,900	\$10,390	\$19,429	\$133,719
Project 11 – Cholla Drive Turn Lane (SR-17)					
ST-11	Construct left turn lane (SB SR-17) and right turn lane (NB SR-17) onto Cholla Drive	\$71,475	\$7,148	\$13,366	\$91,988
Project 12 – Cholla Estates					
ST-12A	Cholla Drive - Reconstruct existing pavement structure and curb/gutter. Minor drainage improvements	\$533,900	\$53,390	\$99,839	\$687,129
ST-12B	Cane Circle - Reconstruct existing pavement structure and curb/gutter. Minor drainage improvements	\$67,720	\$6,772	\$12,664	\$87,156
ST-12C	Staghorn Street - Reconstruct existing pavement structure and curb/gutter. Minor drainage improvements	\$128,300	\$12,830	\$23,992	\$165,122
ST-12D	Cholla Circle - Reconstruct existing pavement structure and curb/gutter. Minor drainage improvements	\$53,680	\$5,368	\$9,664	\$66,512
ST-12E	Ocotillo Circle - Reconstruct existing pavement structure and curb/gutter. Minor drainage improvements	\$47,480	\$4,748	\$8,879	\$61,107
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Project 13 – Old Highway 91					
ST-13	Realign Old Highway 91 at Anderson Junction to move intersection with SR-17 1,000 feet east. Demolish old alignment.	\$276,200	\$27,620	\$51,649	\$355,469
Project 14 – Anderson Junction Road & 7 C's Road					
ST-14	Realign Anderson Junction Road and 7 C's Road at Anderson Junction to move intersection with SR-17 1,000 feet east.	\$336,100	\$33,610	\$62,851	\$432,561
				STREET PROJECTS TOTAL	\$6,563,726
PARKS PROJECTS					
Project 15 – City Center Park					
PK-15A	City Center Park West Side Improvements	\$196,100	\$19,610	\$36,671	\$252,381
PK-15B	City Center Park East Side Improvements	\$1,219,000	\$121,900	\$227,953	\$1,568,853
Project 16 – Trail Ridge Park					
PK-16	Construct site improvements for 4.23 acres to include infrastructure and amenities	\$429,300	\$42,930	\$80,279	\$552,509
Project 17 – Almond Heights Park					
PK-17	Construct site improvements for .07 acres to include infrastructure and amenities	\$318,000	\$31,800	\$59,466	\$409,266
				PARKS PROJECTS TOTAL	\$2,783,009
TRAILS PROJECTS					
Project 18 – Bypass Highway Trail					
TR-18	Construct paved trail improvements for 23,300 feet along the Bypass Highway	\$704,100	\$70,410	\$131,667	\$906,177
Project 19 – Toquerville Boulevard / Hunter Lane Trail					
TR-19	Construct paved trail improvements for 6,700 feet along Toquerville Boulevard and Hunter Lane.	\$187,690	\$18,769	\$35,098	\$241,557
Project 20 – SR-17 Trail					
TR-20	Construct paved trail improvements for 14,300 feet along SR-17 from Anderson Junction to Old Church Road	\$519,690	\$51,969	\$97,182	\$668,841
Project 21 – Old Highway 91 (I-15 Frontage Road) Trail					
TR-21	Construct paved trail improvements for 9,900 feet along Old Highway 91 from Anderson Junction to south Toquerville boundary	\$313,470	\$31,347	\$58,619	\$403,436
				TRAIL PROJECTS TOTAL	\$2,220,011