

2019

Capital Improvement Program



City of Ankeny, Iowa
Calendar Year 2019-2023

2019-2023

CAPITAL IMPROVEMENT PROGRAM

INTRODUCTION

The capital improvement program serves as a guide for the provision of public improvements and outlines the timing and financing of projects for a five-year period. The capital budget is a significant portion of the fiscal year 2020 budget. It includes the costs associated with the 2019 capital projects, the first year of the 2019-2023 Capital Improvement Program.

The capital improvement program identifies capital needs, establishes priorities and identifies secured and potential funding sources. Key resources used in formulating the capital improvement program include *The Ankeny Plan 2040*, as well as professional studies of facilities, transportation, utilities and drainage needs.

The capital improvement program neither appropriates funds nor authorizes projects. The city council must act to initiate projects. Proceedings to initiate capital improvement projects are presented to the council when sources of funding are available and the project is set for design and/or construction.

Annually, staff performs an extensive evaluation of capital project requirements, updates the adopted capital improvement program document, incorporates recommended changes, and submits the revised program to the city council for consideration, modification, and adoption as a part of the annual budget process.

During the preparation of the recommended capital improvement program, city staff employs judgment to identify which projects can be accomplished within a given year and within the city's financial constraints. As would be expected, project expenditures and revenue estimates for the earlier years are more precise than the later years.

FISCAL OVERVIEW

The 2019-2023 Capital Improvement Program reflects a \$7,415,766 decrease in project expenditures over last year's program. An increase in the streets and water towers/storage categories is being offset by a decrease in the municipal buildings category. The largest projects in the streets category includes the NE Delaware Avenue Reconstruction from NE 5th Street to NE 18th Street and the West 1st Street Widening and Improvements – Phase 1. The Future NW Water Tower is the largest project in the water towers/storage category. The significant decrease in the municipal buildings category is related to the Fire Station No. 3 and Ankeny Kirkendall Public Library projects programmed in 2018.

GOALS

The City Council's goals provide policy guidance for the evaluation of capital improvement projects. These goals include:

- High performing city organization: financially sound, providing service value;
- Responsible growth and revitalization;
- Preservation of Ankeny's hometown feel; and
- Ankeny as a successful business center

In addition to these goals, *The Ankeny Plan 2040* serves as the basis for many of the city's policy decisions related to a wide range of issues including capital projects. *The Ankeny Plan 2040* community goals related to the 2019-2023 Capital Improvement Program include:

1. Provide infrastructure investments that correspond to the community's growth potential;
2. Ensure that development within Ankeny and on Ankeny's periphery demonstrates environmental responsibility and adheres to the city's long-term growth goals;
3. Assure that the transportation system is adequate to meeting future demands; and
4. Encourage the development of an interconnected system of parks, trails and civic parkways and maintain a high level of service for recreational facilities as new neighborhoods emerge.

PROCESS

The capital improvement program process includes the submittal of request forms that gather information about capital projects including information on the department, project type and purpose, funding sources, underlying studies, and reasons for the project's timing. This information is combined with other factors such as relevance to city council goals, method of financing and whether or not it is a new or replacement project.

The projects are then evaluated based on the information provided on the forms. The following criteria may be considered when evaluating capital projects:

- Meets legal mandates
- Reduces hazards and improves public safety
- Advances a council goal or priority
- Improves efficiency
- Maintains standards of service
- Supports economic development
- Improves services and convenience
- Affordability
- Improves the quality of life or aesthetic values

These criteria are used as general guidelines that help determine priorities among the capital project requests. Projects are then evaluated and presented to the city council for consideration based on priorities and financial guidelines.

Since the 2019 capital improvement projects will become part of the adopted 2020 budget, the emphasis in the capital improvement process is on the 2019 capital program. The projects for the remaining four years of the program become part of the city's long-term financial program. Although not an official part of the capital improvement program, an overall summary is included that contains an additional five years of high priority projects.

PROGRAM OVERVIEW

For 2019-2023, the capital improvement program totals \$135,507,233. Of this total, 44% is identified for transportation projects, 33% for municipal utilities (water, sewer and storm water) projects, 9% for municipal buildings, 6% for Prairie Trail projects, 5% for sidewalks and trails and 3% for parks.

Capital budget requirements for 2019 total \$42,951,900. Capital spending authorizations by project category for the upcoming year include:

Bridge/Box Culvert	\$1,810,000	4.22%
Prairie Trail	8,655,000	20.15%
Municipal Buildings	5,180,000	12.06%
Parks	640,000	1.49%
Sewer	3,457,000	8.05%
Sidewalks/Trails	2,140,000	4.98%
Storm Water	1,525,000	3.55%
Streets	13,387,900	31.17%
Traffic Control	1,320,000	3.07%
Water	4,387,000	10.21%
Water Towers/Storage	450,000	1.05%

For additional information see the Category Summary and Project by Category reports in Section 3 of the capital improvement program.

FINANCIAL PLAN

The program represents a concerted effort to ensure that needed capital projects are in place in a timely manner to accommodate growth and development. Staff has worked to mitigate the impact that debt service requirements have on the debt service levy by careful review of the need for the projects and timing of these projects.

The financial plan presents a diversified approach to funding the 2019-2023 Capital Improvement Program with 68% coming from sources other than property taxes. The plan focuses on finding revenue sources

from outside the community to lessen the burden on taxpayers and aggressively seeks partnerships for enhancing the city's infrastructure. The capital improvement program financial plan relies on regular general obligation debt with substantial reinvestment in infrastructure. Typically, any infrastructure reinvestment, such as street rehabilitation, is funded primarily by property taxes from the debt service levy.

Below is a summary of the funding sources for the 2019-2023 Capital Improvement Program.

Funding Source	Revenue (\$)	% of Revenue
Property Taxes	\$43,932,999	32%
Grants and Intergovernmental	13,298,500	10%
Tax Increment Financing	15,334,000	11%
Municipal Utilities Revenues	40,773,234	30%
Miscellaneous Revenues	22,168,500	17%
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Total	\$135,507,233	100%

For additional information see the Funding Source Summary and Projects by Funding Source reports in Section 3 of the capital improvement program.

PROPERTY TAXES

Property taxes, specifically those collected through the city's debt service levy, are the largest source of revenue for the capital improvement program representing \$43,932,999, or 32%, of the overall financial plan. Property tax revenue is used to make principal and interest payments on general obligation debt issued by the city to pay for infrastructure projects.

There are six types of general obligation debt issued by the city with all types backed by the full faith and credit of the city's taxing authority:

1. Regular general obligation debt—debt service levy
2. Water-abated general obligation debt—reimbursement received from water fund
3. Sewer-abated general obligation debt—reimbursement received from sewer fund
4. Storm water-abated general obligation debt—reimbursement received from storm water fund
5. Tax increment financing (TIF)-abated general obligation debt—reimbursement received from tax increment financing fund
6. Referendum approved general obligation debt—additional debt service levy authority for capital projects approved by a vote of a super-majority of voters.

GRANTS AND INTERGOVERNMENTAL

Each year staff looks for opportunities outside of the normal funding mechanisms (property taxes and utility rates) to assist with the construction of infrastructure projects. These opportunities can include awards of federal and state grants, regional resources, or assistance from other governments. The proposed capital improvement program financial plan identifies \$13,298,500 to be received from grant awards or intergovernmental assistance, representing 10% of all revenue sources. The projects most dependent upon grants and intergovernmental support are the West 1st Street Widening and Improvements – Phase 1 and the High Trestle Trail Extension from SW Ordinance Road to SE Oralabor Road. Staff has secured \$3.03 million from the Des Moines Area Metropolitan Planning Organization (MPO) and Iowa Department of Transportation (DOT) for the West 1st Street Widening and Improvements – Phase 1 and \$1.4 million from the Des Moines Area MPO, Iowa Department of Natural Resources (DNR), and Iowa DOT for the High Trestle Trail Extension from SW Ordinance Road to SE Oralabor Road.

For 2019, staff has secured \$3,925,000 in participation from the Des Moines Area MPO, Iowa DNR and Iowa DOT for various bridge, trail and street projects. An additional \$652,500 is anticipated from the Federal Emergency Management Agency (FEMA) for flood repair projects that resulted from the June 30, 2018, flash flooding event.

TAX INCREMENT FINANCING

Of the five funding sources, \$15,334,000, or 11%, of general obligation debt is being financed through TIF abatements. Projects planned for construction in 2019 include SW Des Moines Street from SW Prairie Trail Parkway to SW Magazine Road, SW Des Moines Street from SW Magazine Road to SW 11th Street, and SE Creekview Drive Drainage and Paving Improvements. Design is planned in 2019 for West 1st Street Widening and Improvements – Phase 1 and SE Hulsizer Road Realignment, with construction to follow in 2020.

MUNICIPAL UTILITIES

The municipal utilities (water, sewer, and storm water) help support numerous infrastructure projects to ensure each utility can adequately provide service to Ankeny's utility customers. Resources from the utility funds make up \$40,773,234, or 30%, of the capital improvement program financial plan.

Projects within the annual utility programs for 2019 include:

- SE Eastlawn Area utility improvements;
- Sanitary sewer spot repairs, manhole repairs and slip lining; and
- Storm water repair projects – Sawgrass Park Dam Flood Repair, North Creek Slope and Channel Flood Repair, West 1st Street Bridge over Rock Creek Flood Repair, Triangle Detention Basin Outlet Modification, and Magazine Road Storm Sewer Improvements.

Major utility projects planned for 2019 include the SE Magazine Road Water Main Improvements, Irvinedale Drive Transmission Main – Phase 1, SW Water Tower Interior Repaint, Deer Creek Trunk Sewer, Tradition Park Detention Basin Flood Repair, North Creek Channel Flood Repair, and Westwinds Channel Flood Repair.

MISCELLANEOUS REVENUES

The financial plan includes contributions from miscellaneous sources totaling \$22,168,500, or 17%, of the 2019-2023 Capital Improvement Program. This includes Ankeny Community Foundation contributions, capital project fund cash balances, capital reserve fund cash balances, civic trust fund contributions, general fund cash balances, hotel/motel tax fund revenues, park dedication fund cash balances, private contributions, and road use tax fund revenues. Capital project fund cash balances, capital reserve fund cash balances, private contributions, and road use tax fund revenues total \$20.54 million or 93% of miscellaneous revenues. These funding sources will primarily be used for facility and street improvements.

CONCLUSION

This document represents the culmination of a systematic process employed by the city council and staff to develop a five-year program of infrastructure projects critical to the growth of the Ankeny community.

Projects proposed for completion from 2019 through 2023 will sustain existing infrastructure and support the expansion of new economic development opportunities. It is noted, however, that a significant number of projects will need to be considered in the future. With this in mind, the capital improvement program represents a balanced approach, making prudent investments while targeting construction in areas essential to sustaining Ankeny's commitment to attracting businesses, managing growth, and expanding the quality of life.

Section 1

2019-2023 Capital Improvement Program

2019 CIP Projects by Funding Source

Project	Project #	2019	General Obligation Bonds				Revenue Bonds		Miscellaneous						
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Ankeny Community Foundation	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$350,000	\$300,000							\$50,000					
Annual Sidewalk/Trail Construction Program	SDW-00-001	\$600,000								\$300,000			\$300,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$1,032,000								\$1,032,000					
Annual Storm Water Replacement Program	STM-00-001	\$370,000							\$112,500	\$257,500					
Annual PCC Street Patching Program	STR-00-001	\$877,000	\$777,000							\$100,000					
Annual Asphalt Street Resurfacing Program	STR-00-002	\$225,000	\$150,000							\$75,000					
Annual Pavement Preservation Program	STR-00-003	\$250,000	\$250,000												
Annual Street Replacement Program	STR-00-004	\$725,000								\$200,000			\$525,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$1,320,000	\$660,000							\$100,000			\$500,000		\$60,000
Annual Water Main Replacement Program	WTM-00-001	\$527,000								\$527,000					
Library and Former Library Renovation	BLD-16-001	\$4,700,000				\$4,700,000									
Park Maintenance Facility Renovations	BLD-18-001	\$80,000												\$80,000	
Community Entrance Signs	BLD-18-002	\$30,000									\$30,000				
Senior Center	BLD-18-003	\$350,000												\$350,000	
Art Center Foundation Repairs	BLD-19-001	\$20,000												\$20,000	
NE Delaware Avenue Pedestrian Bridge and Sidewalk Connection	BRG-14-002	\$220,000	\$220,000												
NE 54th Street Bridge Replacement and Trail Connection	BRG-15-001	\$1,550,000	\$150,000						\$1,400,000						
NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	\$40,000								\$40,000					
SW Des Moines Street - SW Prairie Trail Parkway to SW Magazine Road	COR-16-004	\$4,730,000			\$4,730,000										
SW State Street Median Study	COR-18-002	\$25,000											\$25,000		
SW Des Moines Street - SW Magazine Road to SW 11th Street	COR-19-001	\$3,900,000			\$3,900,000										
Ankeny Market & Pavilion	PRK-13-001	\$50,000										\$50,000			
Older Parks Renovation Plan	PRK-17-003	\$200,000								\$200,000					
Des Moines Street Corridor Parks Master Plan	PRK-19-001	\$40,000													\$40,000
High Trestle Trail Extension - SW Ordnance Road to SE Oralabor Road	SDW-16-001	\$1,540,000	\$1,040,000						\$500,000						
Deer Creek Trunk Sewer	SNS-17-001	\$2,425,000								\$2,425,000					
Wildflower Detention Basin Improvements	STM-18-002	\$75,000		\$75,000											
Tradition Park Detention Basin Flood Repair	STM-19-001	\$470,000		\$235,000					\$235,000						
North Creek Channel Flood Repair	STM-19-002	\$210,000		\$105,000					\$105,000						
Westwinds Channel Flood Repair	STM-19-003	\$400,000		\$200,000					\$200,000						
SE Creekview Drive Drainage and Paving Improvements	STR-05-003	\$1,025,000			\$1,025,000										
East 1st Street and I-35 Interchange Reconstruction	STR-11-004	\$1,110,900	\$469,666				\$641,234								
South Ankeny Boulevard and SE Shurfine Drive/SW Prairie Trail Parkway Intersection Improvements	STR-16-001	\$3,700,000	\$2,700,000				\$150,000		\$850,000						
NW 18th Street Extension - NW Weigel Drive to NW Abbie Drive	STR-16-002	\$50,000	\$50,000												
West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$650,000			\$650,000										
South Ankeny Boulevard and SW Oralabor Road Safety Studies	STR-18-006	\$45,000											\$45,000		
SE Hulsizer Road Realignment	STR-18-007	\$325,000			\$325,000										
SW Oralabor Road and DMACC Boulevard Intersection Improvements	STR-18-008	\$900,000	\$200,000						\$500,000						\$200,000
Ankeny Boulevard and 1st Street Landscaping Improvements	STR-19-001	\$75,000									\$75,000				
SE Four Mile Drive Asphalt Overlay	STR-19-002	\$275,000											\$275,000		
North Ankeny Boulevard and Georgetown Boulevard Intersection Improvements	STR-19-003	\$560,000	\$260,000						\$175,000						\$125,000
SW State Street Paving Improvements	STR-19-005	\$75,000	\$75,000												
South Ankeny Boulevard and Magazine Road Safety Improvements	STR-19-007	\$10,000	\$10,000												
SE Crosswinds Drive/SE 77th Street Improvements	STR-19-008	\$2,510,000							\$500,000						\$2,010,000
SE Magazine Road Water Main Improvements	WTM-17-003	\$555,000					\$555,000								
Irvinedale Drive Transmission Main - Phase 1	WTM-17-004	\$2,800,000					\$2,800,000								
NW State Street Water Main Improvements - Phase 1	WTM-17-005	\$125,000					\$125,000								
Irvinedale Drive Transmission Main - Phase 2	WTM-17-006	\$255,000					\$255,000								
NW Irvinedale Drive Water Main Improvements	WTM-19-004	\$125,000					\$125,000								
SW Water Tower Interior Repaint	WTT-19-001	\$450,000					\$450,000								
		\$42,951,900	\$7,311,666	\$615,000	\$10,630,000	\$4,700,000	\$5,101,234	\$0	\$4,577,500	\$5,306,500	\$105,000	\$50,000	\$1,670,000	\$450,000	\$2,435,000

2019 Bond Issue Project Costs	\$23,256,666
Additional Project Costs	\$0
Cost of Issuance	\$343,334
Projected 2019 Bond Issue Total	\$23,600,000

2019-2023 Capital Improvement Program

2020 CIP Projects by Funding Source

Project	Project #	2020	General Obligation Bonds				Revenue Bonds		Miscellaneous						
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Ankeny Community Foundation	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$350,000	\$300,000							\$50,000					
Annual Sidewalk/Trail Construction Program	SDW-00-001	\$450,000	\$325,000										\$125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$779,000								\$779,000					
Annual Storm Water Replacement Program	STM-00-001	\$250,000								\$250,000					
Annual PCC Street Patching Program	STR-00-001	\$874,000	\$874,000												
Annual Asphalt Street Resurfacing Program	STR-00-002	\$150,000	\$150,000												
Annual Pavement Preservation Program	STR-00-003	\$250,000	\$250,000												
Annual Street Replacement Program	STR-00-004	\$1,670,000	\$500,000										\$1,170,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$400,000	\$400,000												
Annual Water Main Replacement Program	WTM-00-001	\$649,000								\$649,000					
Park Maintenance Facility Renovations	BLD-18-001	\$625,000												\$625,000	
Community Entrance Signs	BLD-18-002	\$40,000									\$40,000				
Senior Center	BLD-18-003	\$4,750,000							\$2,000,000					\$1,750,000	\$1,000,000
HVAC Replacement - City Hall	BLD-18-004	\$500,000												\$500,000	
Art Center Foundation Repairs	BLD-19-001	\$125,000												\$125,000	
NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	\$935,000								\$935,000					
Prairie Ridge Sports Complex - Drainage Improvements	PRK-14-002	\$80,000	\$80,000												
Prairie Ridge Sports Complex - Tee Ball Field	PRK-17-001	\$154,000	\$154,000												
Older Parks Renovation Plan	PRK-17-003	\$229,000								\$229,000					
High Trestle Trail Trailhead and Parking Lot	PRK-18-001	\$130,000	\$130,000												
Hawkeye Park Tennis Courts Replacement	PRK-18-003	\$760,000												\$760,000	
High Trestle Trail Extension - SW Ordnance Road to SE Oralabor Road	SDW-16-001	\$120,000	\$120,000												
NW Elm Lane Pipe Replacement	SNS-19-001	\$75,000								\$75,000					
Saylor Creek Tributary Channel Improvements	STM-17-001	\$150,000		\$150,000											
Wildflower Detention Basin Improvements	STM-18-002	\$275,000		\$275,000											
East 1st Street and I-35 Interchange Reconstruction	STR-11-004	\$1,066,666	\$966,666				\$100,000								
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	\$100,000	\$100,000												
NW 18th Street Extension - NW Weigel Drive to NW Abbie Drive	STR-16-002	\$360,000	\$360,000												
West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$3,125,000			\$1,245,000				\$1,880,000						
North Ankeny Boulevard Landscaping and Median Improvements	STR-18-001	\$480,000	\$240,000								\$240,000				
South Ankeny Boulevard and SW Oralabor Road Safety Studies	STR-18-006	\$25,000											\$25,000		
SE Hulsizer Road Realignment	STR-18-007	\$2,125,000			\$1,484,000				\$641,000						
SW State Street Paving Improvements	STR-19-005	\$1,075,000	\$1,075,000												
South Ankeny Boulevard and Magazine Road Safety Improvements	STR-19-007	\$55,000	\$55,000												
SE Crosswinds Drive/SE 77th Street Improvements	STR-19-008	\$2,390,000													\$2,390,000
Irvinedale Drive Transmission Main - Phase 2	WTM-17-006	\$2,745,000					\$2,745,000								
Irvinedale Drive Transmission Main - Phase 3	WTM-17-007	\$125,000					\$125,000								
NW Irvinedale Drive Water Main Improvements - Trestle Ridge Estates to NW 36th Street	WTM-19-002	\$100,000					\$100,000								
		\$28,541,666	\$6,079,666	\$425,000	\$2,729,000	\$0	\$3,070,000	\$0	\$4,521,000	\$2,967,000	\$280,000	\$0	\$1,320,000	\$3,760,000	\$3,390,000

2020 Bond Issue Project Costs	\$9,233,666
Additional Project Costs	\$2,050,334
Cost of Issuance	\$196,000
Projected 2020 Bond Issue Total	\$11,480,000

2019-2023 Capital Improvement Program

2021 CIP Projects by Funding Source

Project	Project #	2021	General Obligation Bonds				Revenue Bonds		Miscellaneous						
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Ankeny Community Foundation	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$350,000	\$300,000							\$50,000					
Annual Sidewalk/Trail Construction Program	SDW-00-001	\$400,000	\$275,000										\$125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$875,000								\$875,000					
Annual Storm Water Replacement Program	STM-00-001	\$250,000								\$250,000					
Annual PCC Street Patching Program	STR-00-001	\$970,000	\$970,000												
Annual Asphalt Street Resurfacing Program	STR-00-002	\$150,000	\$150,000												
Annual Pavement Preservation Program	STR-00-003	\$250,000	\$250,000												
Annual Street Replacement Program	STR-00-004	\$1,135,000	\$500,000										\$635,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$425,000	\$425,000												
Annual Water Main Replacement Program	WTM-00-001	\$825,000								\$825,000					
Park Maintenance Facility Renovations	BLD-18-001	\$625,000												\$625,000	
Community Entrance Signs	BLD-18-002	\$60,000									\$60,000				
Older Parks Renovation Plan	PRK-17-003	\$85,000								\$85,000					
High Trestle Trail Extension - SW Ordnanace Road to SE Oralabor Road	SDW-16-001	\$1,300,000	\$400,000						\$900,000						
Otter Creek Trunk Sewer - Phase 3	SNS-11-001	\$275,000								\$275,000					
Saylor Creek Tributary Channel Improvements	STM-17-001	\$650,000		\$650,000											
East 1st Street and I-35 Interchange Reconstruction	STR-11-004	\$666,667	\$666,667												
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	\$325,000	\$325,000												
NW 18th Street Extension - NW Weigel Drive to NW Abbie Drive	STR-16-002	\$3,700,000	\$3,700,000												
West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$3,125,000			\$1,975,000				\$1,150,000						
North Ankeny Boulevard Landscaping and Median Improvements	STR-18-001	\$420,000	\$210,000								\$210,000				
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	\$50,000	\$50,000												
NW 18th Street Extension - NW Abbie Drive to Iowa Highway 415	STR-18-004	\$100,000	\$100,000												
Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005	\$25,000	\$25,000												
South Ankeny Boulevard and Magazine Road Safety Improvements	STR-19-007	\$280,000	\$155,000						\$125,000						
High Trestle Trail Transmission Main	WTM-17-001	\$275,000					\$275,000								
Irvinedale Drive Transmission Main - Phase 3	WTM-17-007	\$1,375,000					\$1,375,000								
Purchase Capacity in Saylorville Feeder Main	WTM-17-008	\$800,000					\$800,000								
NW Tower Transmission Main	WTM-17-009	\$50,000					\$50,000								
Aquifer Storage and Recovery #1 Replacement	WTT-17-002	\$250,000					\$250,000								
		\$20,066,667	\$8,501,667	\$650,000	\$1,975,000	\$0	\$2,750,000	\$0	\$2,175,000	\$2,360,000	\$270,000	\$0	\$760,000	\$625,000	\$0

2021 Bond Issue Project Costs	\$11,126,667
Additional Project Costs	\$0
Cost of Issuance	\$193,333
Projected 2021 Bond Issue Total	\$11,320,000

2019-2023 Capital Improvement Program

2022 CIP Projects by Funding Source

Project	Project #	2022	General Obligation Bonds				Revenue Bonds		Miscellaneous						
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Ankeny Community Foundation	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$350,000	\$300,000							\$50,000					
Annual Sidewalk/Trail Construction Program	SDW-00-001	\$400,000	\$275,000										\$125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$860,000								\$860,000					
Annual Storm Water Replacement Program	STM-00-001	\$250,000								\$250,000					
Annual PCC Street Patching Program	STR-00-001	\$955,000	\$955,000												
Annual Asphalt Street Resurfacing Program	STR-00-002	\$150,000	\$150,000												
Annual Pavement Preservation Program	STR-00-003	\$250,000	\$250,000												
Annual Street Replacement Program	STR-00-004	\$710,000	\$500,000										\$210,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$425,000	\$425,000												
Annual Water Main Replacement Program	WTM-00-001	\$585,000								\$585,000					
Community Entrance Signs	BLD-18-002	\$60,000									\$60,000				
Oralabor Gateway Trail - SW State Street Overpass	SDW-19-001	\$210,000	\$210,000												
Otter Creek Trunk Sewer - Phase 3	SNS-11-001	\$1,475,000								\$1,475,000					
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	\$155,000								\$155,000					
Sawgrass Park Dam Improvements	STM-19-004	\$100,000		\$100,000											
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	\$4,925,000	\$4,925,000												
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	\$265,000	\$265,000												
NW 36th Street and NW Ash Drive Interim Improvements	STR-18-002	\$50,000	\$50,000												
Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005	\$100,000	\$100,000												
High Trestle Trail Transmission Main	WTM-17-001	\$3,225,000					\$3,225,000								
NW Tower Transmission Main	WTM-17-009	\$575,000					\$575,000								
South Ankeny Boulevard Transmission Main	WTM-18-001	\$160,000					\$160,000								
Aquifer Storage and Recovery #1 Replacement	WTT-17-002	\$3,750,000					\$3,750,000								
Future NW Water Tower	WTT-19-002	\$250,000					\$250,000								
		\$20,235,000	\$8,405,000	\$100,000	\$0	\$0	\$7,960,000	\$0	\$0	\$3,375,000	\$60,000	\$0	\$335,000	\$0	\$0

2022 Bond Issue Project Costs	\$8,505,000
Additional Project Costs	\$65,000
Cost of Issuance	\$165,000
Projected 2022 Bond Issue Total	\$8,735,000

2019-2023 Capital Improvement Program

2023 CIP Projects by Funding Source

Project	Project #	2023	General Obligation Bonds				Revenue Bonds		Miscellaneous						
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Ankeny Community Foundation	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$350,000	\$300,000							\$50,000					
Annual Sidewalk/Trail Construction Program	SDW-00-001	\$400,000	\$275,000										\$125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$785,000								\$785,000					
Annual Storm Water Replacement Program	STM-00-001	\$250,000								\$250,000					
Annual PCC Street Patching Program	STR-00-001	\$880,000	\$880,000												
Annual Asphalt Street Resurfacing Program	STR-00-002	\$150,000	\$150,000												
Annual Pavement Preservation Program	STR-00-003	\$250,000	\$250,000												
Annual Street Replacement Program	STR-00-004	\$550,000	\$500,000										\$50,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$425,000	\$425,000												
Annual Water Main Replacement Program	WTM-00-001	\$510,000								\$510,000					
Community Entrance Signs	BLD-18-002	\$60,000									\$60,000				
Oralabor Gateway Trail - SW State Street Overpass	SDW-19-001	\$1,390,000	\$940,000						\$450,000						
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	\$845,000								\$845,000					
Sawgrass Park Dam Improvements	STM-19-004	\$355,000		\$355,000											
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	\$4,800,000	\$3,300,000						\$1,500,000						
NW 36th Street and NW Ash Drive Interim Improvements	STR-18-002	\$525,000	\$525,000												
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	\$300,000	\$300,000												
NW 18th Street Extension - NW Abbie Drive to Iowa Highway 415	STR-18-004	\$630,000	\$630,000												
Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005	\$300,000	\$300,000												
NW 36th Street - NW Weigel Drive to NW Irvinedale Drive Asphalt Overlay	STR-19-004	\$60,000	\$60,000												
SW Oralabor Road and SW Edgewood Lane Intersection Improvements	STR-19-006	\$175,000	\$100,000						\$75,000						
South Ankeny Boulevard Transmission Main	WTM-18-001	\$1,840,000					\$1,840,000								
South Ankeny Boulevard Water Main Improvements - SW Ordnance Road to SE 3rd Street	WTM-19-001	\$90,000					\$90,000								
NW State Street Water Main Improvements - Phase 2	WTM-19-003	\$42,000					\$42,000								
Future NW Water Tower	WTT-19-002	\$7,750,000					\$7,750,000								
		\$23,712,000	\$8,935,000	\$355,000	\$0	\$0	\$9,722,000	\$0	\$2,025,000	\$2,440,000	\$60,000	\$0	\$175,000	\$0	\$0

2023 Bond Issue Project Costs	\$9,290,000
Additional Project Costs	\$0
Cost of Issuance	\$170,000
Projected 2023 Bond Issue Total	\$9,460,000

[illegible]

Projected
2019

Projected
2021

Projected
2022

Projected
2023

<u>Annual Sidewalk/Trail Construction Program</u>	<u>Projected 2018</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>
Beginning Cash Balance	\$ 171,177	\$ 471,862	\$ 171,862	\$ 171,862	\$ 171,862	\$ 171,862
<u>Transfers In</u>						
General Obligation Bonds	\$ 305,000		\$ 325,000	\$ 275,000	\$ 275,000	\$ 275,000
Transfer from Road Use Tax Fund	\$ 325,000	\$ 300,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000
Total Transfers In	\$ 630,000	\$ 300,000	\$ 450,000	\$ 400,000	\$ 400,000	\$ 400,000
<u>Project Expenditures</u>						
Sidewalk Oversizing	\$ 50,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
Sidewalk and Pedestrian Ramp Gaps	\$ 12,450	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
ADA Compliance	\$ 73,910	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000
Woodland Reserve Permanent Public Trail Easement	\$ 27,450					
W First Street 8' Sidewalk Upgrade - Phase 2 (Linden Street to College Avenue)	\$ 7,851					
W First Street 8' Sidewalk Upgrade - Phase 3 (State Street to NW Elementary)	\$ 97,539					
NE Frisk Drive Sidewalk Connection	\$ 60,114					
SE Magazine Road 8' Sidewalk Upgrade - Phase 3 (Trilein Drive to Delaware Avenue)		\$ 240,000				
SE Delaware Avenue Sidewalk Connection		\$ 60,000	\$ 150,000			
Sidewalk/Trail Construction (TBD)				\$ 100,000	\$ 100,000	\$ 100,000
Total Project Expenditures	\$ 329,315	\$ 600,000	\$ 450,000	\$ 400,000	\$ 400,000	\$ 400,000
Remaining Cash Balance	\$ 471,862	\$ 171,862	\$ 171,862	\$ 171,862	\$ 171,862	\$ 171,862

<u>Annual Sanitary Sewer Replacement Program</u>	<u>Projected 2018</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>
Beginning Cash Balance	\$ 2,782,916	\$ 2,158,867	\$ 1,626,867	\$ 1,347,867	\$ 972,867	\$ 612,867
<u>Transfers In</u>						
Transfer from Sewer Fund	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Close Project Fund - Hidden Creek Trunk Sewer	\$ 120,859					
Total Transfers In	\$ 620,859	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
<u>Project Expenditures</u>						
Sanitary Sewer Oversizing	\$ 41,235	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Sanitary Sewer Spot Repairs, Manhole Repairs & Slip Lining	\$ 216,714	\$ 575,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000
SW Southlawn Area Utility Improvements	\$ 15,612					
SE Eastlawn Area Utility Improvements	\$ 371,346	\$ 402,000	\$ 374,000			
NW Northlawn Area Utility Improvements		\$ 25,000	\$ 50,000	\$ 520,000	\$ 505,000	\$ 430,000
Total Project Expenditures	\$ 644,907	\$ 1,032,000	\$ 779,000	\$ 875,000	\$ 860,000	\$ 785,000
Transfers Out - SE Delaware Bank Stabilization	\$ 325,000					
Transfers Out - Sanitary Sewer Study and Master Plan	\$ 225,000					
Transfers Out - NW Irvinedale Drive Corridor Improvements	\$ 50,000					
Remaining Cash Balance	\$ 2,158,867	\$ 1,626,867	\$ 1,347,867	\$ 972,867	\$ 612,867	\$ 327,867

<u>Annual Storm Water Replacement Program</u>	<u>Projected 2018</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>
Beginning Cash Balance	\$ 799,411	\$ 335,003	\$ 327,503	\$ 327,503	\$ 327,503	\$ 327,503
<u>Transfers In</u>						
Transfer from Storm Water Fund	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Close Project Fund - Tributary A to Four Mile Creek	\$ 120,819					
Federal Emergency Management Agency (FEMA)	\$ 91,178	\$ 112,500				
Total Transfers In	\$ 461,997	\$ 362,500	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
<u>Project Expenditures</u>						
Storm Water Detention Basin Management Projects	\$ 10,000					
Storm Water Conservation Design Features within City Property	\$ 4,375	\$ 10,000				
SE Cortina Drive Area Improvements - Design Concept	\$ 388					
Oralabor Road Culvert Removal - Design & Construct	\$ 17,006					
Prairie Trail Bioswales Rehabilitation - Design & Construct	\$ 16,620					
North Prairie Bend Basin Repair - Design & Construct	\$ 37,382					
High Trestle Trail Clear & Grub & RCB Culvert Removal - Design & Construct	\$ 15,575					
SW 2nd Street & SW Flynn Drive Intersection Improvements - Design & Construct	\$ 92,704					
Tradition Park Detention Basin, NW 18th Street Box Culvert & NE 36th Street Box Culvert - Fence Repairs	\$ 3,336					
Diamond Hills Greenway - Debris Removal	\$ 4,400					
Sawgrass Park Dam Emergency Repair - Design	\$ 15,000					
North Creek Slope and Channel Emergency Repair - Design	\$ 24,700					
Michael Park - Emergency Repair	\$ 21,000					
Creekside Development - Emergency Repair	\$ 12,050					
North Creek Slope and Channel - Emergency Repair	\$ 24,571					
Tradition Park Detention Basin - Emergency Repair	\$ 77,300					
Sawgrass Park Dam Flood Repair - Construct		\$ 100,000				
North Creek Slope and Channel Flood Repair - Construct		\$ 100,000				
West First Street Bridge over Rock Creek Flood Repair - Construct		\$ 25,000				
Triangle Detention Basin Outlet Modification - Design & Construct		\$ 85,000				
Magazine Road Storm Sewer Improvements - Design & Construct		\$ 50,000				
Storm Water Projects (TBD)			\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Total Project Expenditures	\$ 376,405	\$ 370,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Transfers Out - SE Peterson Drive & SE Trilein Drive Storm Sewer Improvements	\$ 550,000					
Remaining Cash Balance	\$ 335,003	\$ 327,503	\$ 327,503	\$ 327,503	\$ 327,503	\$ 327,503

<u>Annual PCC Street Patching Program</u>	<u>Projected 2018</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>
Beginning Cash Balance	\$ 151,791	\$ 284,583	\$ 184,583	\$ 184,583	\$ 184,583	\$ 184,583
<u>Transfers In</u>						
General Obligation Bonds	\$ 760,000	\$ 777,000	\$ 874,000	\$ 970,000	\$ 955,000	\$ 880,000
Pavement Thickness Deficiency Payments	\$ 42,513					
Total Transfers In	\$ 802,513	\$ 777,000	\$ 874,000	\$ 970,000	\$ 955,000	\$ 880,000
<u>Project Expenditures</u>						
SW Southlawn Area Utility Improvements	\$ 15,612					
SE Eastlawn Area Utility Improvements	\$ 371,351	\$ 402,000	\$ 374,000			
NW Northlawn Area Utility Improvements		\$ 25,000	\$ 50,000	\$ 520,000	\$ 505,000	\$ 430,000
Full-Depth Street Patches and Intake Replacements	\$ 282,758	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000
Total Project Expenditures	\$ 669,721	\$ 877,000	\$ 874,000	\$ 970,000	\$ 955,000	\$ 880,000
Remaining Cash Balance	<u>\$ 284,583</u>	<u>\$ 184,583</u>	<u>\$ 184,583</u>	<u>\$ 184,583</u>	<u>\$ 184,583</u>	<u>\$ 184,583</u>

<u>Annual Asphalt Street Resurfacing Program</u>	<u>Projected 2018</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>
Beginning Cash Balance	\$ 99,348	\$ 194,364	\$ 119,364	\$ 119,364	\$ 119,364	\$ 119,364
<u>Transfers In</u>						
General Obligation Bonds	\$ 154,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Total Transfers In	\$ 154,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
<u>Project Expenditures</u>						
SW Weigel Drive - NW Polk City Drive to SW Camden Drive	\$ 33,216					
NE Four Mile Drive/NE 29th Street - NE 36th Street to NE 54th Street	\$ 25,769					
NW Weigel Drive - West 1st Street to NW 5th Street		\$ 140,000				
NW 8th Street - NW Polk City Drive/Iowa Highway 415 to NW Cypress Drive		\$ 55,000				
Asphalt Street Resurfacing (TBD)		\$ 30,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Total Project Expenditures	\$ 58,984	\$ 225,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Remaining Cash Balance	\$ 194,364	\$ 119,364	\$ 119,364	\$ 119,364	\$ 119,364	\$ 119,364

Annual Pavement Preservation Program

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Annual Street Replacement Program

	<u>Projected</u> <u>2018</u>	<u>Projected</u> <u>2019</u>	<u>Projected</u> <u>2020</u>	<u>Projected</u> <u>2021</u>	<u>Projected</u> <u>2022</u>	<u>Projected</u> <u>2023</u>
Beginning Cash Balance	\$ 333,500	\$ 403,952	\$ 203,952	\$ 203,952	\$ 203,952	\$ 203,952
Transfers In						
General Obligation Bonds			\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Transfer from Road Use Tax Fund	\$ 300,000	\$ 525,000	\$ 1,170,000	\$ 635,000	\$ 210,000	\$ 50,000
Total Transfers In	\$ 300,000	\$ 525,000	\$ 1,670,000	\$ 1,135,000	\$ 710,000	\$ 550,000
Project Expenditures						
NW Prairie Ridge Drive - from just west of NW Ash Drive to 900 feet west	\$ 229,548					
NW 9th Street - NW Irvinedale Drive to NW Park Lane - Construct		\$ 625,000				
SE 8th Street - SE Oak Drive to SE Sharon Drive - Design		\$ 100,000				
SE 8th Street - SE Oak Drive to SE Sharon Drive - Construct & Inspection			\$ 925,000			
NW 9th Street - NW Park Lane to NW Cedarwood Drive - Construct			\$ 625,000			
SE 8th Street - South Ankeny Boulevard to SE Oak Drive - Design			\$ 120,000			
SE 8th Street - South Ankeny Boulevard to SE Oak Drive - Construct & Inspection				\$ 1,095,000		
SE Peachtree Drive - SE Oralabor Road to SE Aster Court - Design				\$ 40,000		
SE Peachtree Drive - SE Oralabor Road to SE Aster Court - Construct & Inspection					\$ 385,000	
SE 8th Street - SE Rio Circle to SE Wanda Drive - Construct					\$ 325,000	
NW 5th Street - NW Greenwood to NW Applewood Street - Construct						\$ 550,000
Total Project Expenditures	\$ 229,548	\$ 725,000	\$ 1,670,000	\$ 1,135,000	\$ 710,000	\$ 550,000
Remaining Cash Balance	\$ 403,952	\$ 203,952	\$ 203,952	\$ 203,952	\$ 203,952	\$ 203,952

<u>Annual Traffic Signal Improvement Program</u>	<u>Projected 2018</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>
Beginning Cash Balance	\$ 311,259	\$ 276,249	\$ 176,249	\$ 176,249	\$ 176,249	\$ 176,249
<u>Transfers In</u>						
General Obligation Bonds	\$ 290,000	\$ 660,000	\$ 400,000	\$ 425,000	\$ 425,000	\$ 425,000
Iowa Department of Transportation - USTEP	\$ 272,785					
Polk County - Cost Share	\$ 97,400					
Ankeny Community School District - Cost Share		\$ 60,000				
Transfer from Road Use Tax Fund		\$ 500,000				
Total Transfers In	\$ 660,185	\$ 1,220,000	\$ 400,000	\$ 425,000	\$ 425,000	\$ 425,000
<u>Project Expenditures</u>						
SW State Street & SW White Birch Drive Signal	\$ 16,393					
West 1st Street & Highway 415 Signal	\$ 328,743					
Interstate 35 & SE Corporate Woods Drive SB Ramp Signal	\$ 259,959					
NE Delaware Avenue & NE 18th Street Pedestrian Signal Modifications	\$ 26,300	\$ 35,000				
SW State Street & SW Prairie Trail Parkway Signal and Intersection Improvements	\$ 63,800	\$ 950,000				
Fiber Optic Conduit Connection between New Library & Police Station		\$ 125,000				
South Ankeny Boulevard Fiber Optic Relocation between SE Lorenz Drive and SE 8th Street		\$ 160,000				
NE 18th Street & NE Trilein Drive Signal		\$ 50,000	\$ 350,000			
Traffic Signal, Beacon & Fiber Optic Projects (TBD)			\$ 50,000	\$ 425,000	\$ 425,000	\$ 425,000
Total Project Expenditures	\$ 695,195	\$ 1,320,000	\$ 400,000	\$ 425,000	\$ 425,000	\$ 425,000
Remaining Cash Balance	\$ 276,249	\$ 176,249	\$ 176,249	\$ 176,249	\$ 176,249	\$ 176,249

<u>Annual Water Main Extension/Replacement Program</u>	<u>Projected 2018</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>
Beginning Cash Balance	\$ 921,492	\$ 807,733	\$ 780,733	\$ 631,733	\$ 306,733	\$ 221,733
Transfers In						
Transfer from Water Fund	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Close Project Fund - East 1st Street Rural Water Main Extension	\$ 21,768					
Close Project Fund - SE Four Mile Drive Water Main Extension	\$ 62,500					
Close Project Fund - SW Irvinedale Drive Feeder Main	\$ 175,000					
Close Project Fund - NW 18th Street Water Main Extension	\$ 18,775					
Total Transfers In	\$ 778,043	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Project Expenditures						
Water Main Oversizing	\$ 67,581	\$ 100,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000
SW Southlawn Area Utility Improvements	\$ 15,612					
NW Irvinedale Drive 12" Water Main Connection	\$ 27,689					
SW 3rd Street (Maple to Scott) Water Main Improvements	\$ 409,339					
SE Eastlawn Area Utility Improvements	\$ 371,580	\$ 402,000	\$ 374,000			
NW Northlawn Area Utility Improvements		\$ 25,000	\$ 50,000	\$ 520,000	\$ 505,000	\$ 430,000
SE 8th Street (Sharon to Ankeny Boulevard) Water Main Improvements			\$ 145,000	\$ 225,000		
Total Project Expenditures	\$ 891,802	\$ 527,000	\$ 649,000	\$ 825,000	\$ 585,000	\$ 510,000
Remaining Cash Balance	\$ 807,733	\$ 780,733	\$ 631,733	\$ 306,733	\$ 221,733	\$ 211,733

		2019-2028 Capital Improvement Program Overall Project Listing with 10-Year Horizon Projects												
Map I.D.		Proposed Projects	Project No.	2019	2020	2021	2022	2023	High Priority Projects					Project Cost
									2024	2025	2026	2027	2028	
ANNUAL PROGRAMS														
1	A	Annual Park Development Program	PRK-00-002	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$500,000	\$500,000	\$550,000	\$550,000	\$550,000	\$4,400,000
2	B	Annual Sidewalk/Trail Construction Program	SDW-00-001	\$600,000	\$450,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$4,250,000
3	C	Annual Sanitary Sewer Replacement Program	SNS-00-001	\$1,032,000	\$779,000	\$875,000	\$860,000	\$785,000	\$700,000	\$750,000	\$750,000	\$750,000	\$800,000	\$8,081,000
4		Annual Storm Water Replacement Program	STM-00-001	\$370,000	\$250,000	\$250,000	\$250,000	\$250,000	\$300,000	\$300,000	\$350,000	\$350,000	\$350,000	\$3,020,000
3	C	Annual PCC Street Patching Program	STR-00-001	\$877,000	\$874,000	\$970,000	\$955,000	\$880,000	\$800,000	\$850,000	\$850,000	\$850,000	\$850,000	\$8,756,000
5		Annual Asphalt Street Resurfacing Program	STR-00-002	\$225,000	\$150,000	\$150,000	\$150,000	\$150,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,825,000
		Annual Pavement Preservation Program	STR-00-003	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$200,000	\$250,000	\$250,000	\$250,000	\$250,000	\$2,450,000
6	D	Annual Street Replacement Program	STR-00-004	\$725,000	\$1,670,000	\$1,135,000	\$710,000	\$550,000	\$650,000	\$650,000	\$700,000	\$700,000	\$700,000	\$8,190,000
7	E	Annual Traffic Signal Improvement Program	TRF-00-001	\$1,320,000	\$400,000	\$425,000	\$425,000	\$425,000	\$400,000	\$500,000	\$500,000	\$500,000	\$500,000	\$5,395,000
3	C, F	Annual Water Main Replacement Program	WTM-00-001	\$527,000	\$649,000	\$825,000	\$585,000	\$510,000	\$600,000	\$700,000	\$700,000	\$700,000	\$700,000	\$6,496,000
BUILDINGS														
8		Library and Former Library Renovation	BLD-16-001	\$4,700,000										\$4,700,000
	G	Senior Center	BLD-18-003	\$350,000	\$4,750,000									\$5,100,000
		Community Entrance Signs	BLD-18-002	\$30,000	\$40,000	\$60,000	\$60,000	\$60,000	\$60,000					\$310,000
9	H	Park Maintenance Facility Renovations	BLD-18-001	\$80,000	\$625,000	\$625,000								\$1,330,000
		Art Center Foundation Repairs	BLD-19-001	\$20,000	\$125,000									\$145,000
	I	HVAC Replacement - City Hall	BLD-18-004		\$500,000									\$500,000
		Fire Station No. 4	Buildings						\$400,000	\$500,000	\$5,000,000			\$5,900,000
		Wastewater Treatment Facilities Demolition	Buildings										\$800,000	\$800,000
BRIDGES														
10		NE Delaware Avenue Pedestrian Bridge and Sidewalk Connection	BRG-14-002	\$220,000										\$220,000
	J	NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	\$40,000	\$935,000									\$975,000
11		NE 54th Street Bridge Replacement and Trail Connection	BRG-15-001	\$1,550,000										\$1,550,000
		NE 18th Street Improvements and I-35 Overpass Bridge	Bridges						\$900,000	\$900,000	\$5,500,000	\$3,000,000		\$10,300,000
		SW Oralabor Road and Ankeny Boulevard Regional Trail Overpass	Bridges							\$100,000	\$1,500,000			\$1,600,000
		Corporate Woods Drive Railroad Overpass	Bridges								\$750,000	\$8,500,000		\$9,250,000
		SW Oralabor Road Pedestrian Overpass at White Birch Drive	Bridges									\$120,000	\$1,600,000	\$1,720,000
PARKS														
12		Ankeny Market & Pavilion	PRK-13-001	\$50,000										\$50,000
		Des Moines Street Corridor Parks Master Plan	PRK-19-001	\$40,000										\$40,000
13	K	Older Parks Renovation Plan	PRK-17-003	\$200,000	\$229,000	\$85,000								\$514,000
	L	Prairie Ridge Sports Complex - Drainage Improvements	PRK-14-002		\$80,000									\$80,000
	M	Hawkeye Park Tennis Courts Replacement	PRK-18-003		\$760,000									\$760,000
	N	Prairie Ridge Sports Complex - Tee Ball Field	PRK-17-001		\$154,000									\$154,000
	O	High Trestle Trail Trailhead and Parking Lot	PRK-18-001		\$130,000									\$130,000
		Miracle Park Concession Stand Access Road	Parks						\$75,000					\$75,000
		SW Des Moines Street Corridor Park Improvements	Parks							\$750,000			\$750,000	\$1,500,000
		Chautauqua Park Development	Parks							\$250,000	\$2,750,000	\$250,000	\$3,000,000	\$6,250,000
		Watercrest Community Park Expansion	Parks								\$200,000	\$2,000,000		\$2,200,000
SANITARY SEWERS														
14		Deer Creek Trunk Sewer	SNS-17-001	\$2,425,000										\$2,425,000
	P	NW Elm Lane Pipe Replacement	SNS-19-001		\$75,000									\$75,000
		Otter Creek Trunk Sewer - Phase 3	SNS-11-001			\$275,000	\$1,475,000							\$1,750,000
		Otter Creek Trunk Sewer - Phase 4	SNS-12-001				\$155,000	\$845,000						\$1,000,000
		Briarwood Sanitary Sewer Upsizing/Replacement	Sewer						\$1,500,000					\$1,500,000
		Central Area Sewer System Upsizing	Sewer							\$2,000,000				\$2,000,000

		2019-2028 Capital Improvement Program Overall Project Listing with 10-Year Horizon Projects												
Map I.D.	Proposed Projects		Project No.	2019	2020	2021	2022	2023	High Priority Projects					Project Cost
									2024	2025	2026	2027	2028	
SIDEWALKS/TRAILS														
15		High Trestle Trail Extension - SW Ordnance Road to SE Oralabor Road	SDW-16-001	\$1,540,000	\$120,000	\$1,300,000								\$2,960,000
		Oralabor Gateway Trail - SW State Street Overpass	SDW-19-001				\$210,000	\$1,390,000						\$1,600,000
		Hidden Creek Trail Extension - NW 5th Street to High Trestle Trail	Trails						\$90,000	\$900,000				\$990,000
		Four Mile Creek Trail - NE 47th Street to NE 54th Street	Trails						\$50,000	\$500,000				\$550,000
STORM WATER														
16		Tradition Park Detention Basin Flood Repair	STM-19-001	\$470,000										\$470,000
17		North Creek Channel Flood Repair	STM-19-002	\$210,000										\$210,000
18		Westwinds Channel Flood Repair	STM-19-003	\$400,000										\$400,000
	Q	Wildflower Detention Basin Improvements	STM-18-002	\$75,000	\$275,000									\$350,000
		Saylor Creek Tributary Channel Improvements	STM-17-001		\$150,000	\$650,000								\$800,000
		Sawgrass Park Dam Improvements	STM-19-004				\$100,000	\$355,000						\$455,000
STREETS														
19		SE Creekview Drive Drainage and Paving Improvements	STR-05-003	\$1,025,000										\$1,025,000
20		Ankeny Boulevard and 1st Street Landscaping Improvements	STR-19-001	\$75,000										\$75,000
21		SE Four Mile Drive Asphalt Overlay	STR-19-002	\$275,000										\$275,000
22		North Ankeny Boulevard and Georgetown Boulevard Intersection Improvements	STR-19-003	\$560,000										\$560,000
23		South Ankeny Boulevard and SE Shurfine Drive/SW Prairie Trail Parkway Intersection Improvements	STR-16-001	\$3,700,000										\$3,700,000
24		SW Oralabor Road and DMACC Boulevard Intersection Improvements	STR-18-008	\$900,000										\$900,000
		South Ankeny Boulevard and SW Oralabor Road Safety Studies	STR-18-006	\$45,000	\$25,000									\$70,000
	R	SE Hulsizer Road Realignment	STR-18-007	\$325,000	\$2,125,000									\$2,450,000
	S	SW State Street Paving Improvements	STR-19-005	\$75,000	\$1,075,000									\$1,150,000
25	T	SE Crosswinds Drive/SE 77th Street Improvements	STR-19-008	\$2,510,000	\$2,390,000									\$4,900,000
		South Ankeny Boulevard and Magazine Road Safety Improvements	STR-19-007	\$10,000	\$55,000	\$280,000								\$345,000
26	U	East 1st Street and I-35 Interchange Reconstruction	STR-11-004	\$1,110,900	\$1,066,666	\$666,667								\$2,844,233
	V	West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$650,000	\$3,125,000	\$3,125,000								\$6,900,000
		NW 18th Street Extension - NW Weigel Drive to NW Abbie Drive	STR-16-002	\$50,000	\$360,000	\$3,700,000								\$4,110,000
	W	North Ankeny Boulevard Landscaping and Median Improvements	STR-18-001		\$480,000	\$420,000								\$900,000
		NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006		\$100,000	\$325,000	\$4,925,000	\$4,800,000						\$10,150,000
		Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005			\$25,000	\$100,000	\$300,000	\$300,000					\$725,000
		NW 18th Street Extension - NW Abbie Drive to Iowa Highway 415	STR-18-004			\$100,000		\$630,000	\$5,500,000					\$6,230,000
		NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003			\$50,000		\$300,000	\$3,150,000					\$3,500,000
		SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003				\$265,000		\$2,400,000					\$2,665,000
		NW 36th Street and NW Ash Drive Interim Improvements	STR-18-002				\$50,000	\$525,000						\$575,000
		NW 36th Street - NW Weigel Drive to NW Irvinedale Drive Asphalt Overlay	STR-19-004					\$60,000	\$875,000					\$935,000
		SW Oralabor Road and SW Edgewood Lane Intersection Improvements	STR-19-006					\$175,000						\$175,000
		West 1st Street Widening & Improvements - Phase 2	Streets						\$400,000	\$2,000,000	\$3,000,000			\$5,400,000
		NE Delaware Avenue Reconstruction - NE 18th Street to NE 36th Street	Streets						\$500,000	\$3,500,000	\$4,000,000			\$8,000,000
		NW 36th Street Widening - NW Ash Drive to Ankeny Boulevard	Streets						\$100,000	\$1,300,000				\$1,400,000
		NW State Street Extension - NW 36th Street to NW Irvinedale Drive	Streets								\$600,000	\$6,000,000	\$6,000,000	\$12,600,000
		East 1st Street Widening - NE Frisk Drive to NE Four Mile Drive	Streets								\$750,000	\$6,000,000		\$6,750,000
		NW 36th Street Reconstruction - NW Weigel Drive to NW Irvinedale Drive	Streets									\$900,000	\$7,000,000	\$7,900,000

		2019-2028 Capital Improvement Program Overall Project Listing with 10-Year Horizon Projects												
Map I.D.		Proposed Projects	Project No.	2019	2020	2021	2022	2023	High Priority Projects					Project Cost
									2024	2025	2026	2027	2028	
WATER														
27		SE Magazine Road Water Main Improvements	WTM-17-003	\$555,000										\$555,000
28		NW Irvinedale Drive Water Main Improvements	WTM-19-004	\$125,000										\$125,000
29		NW State Street Water Main Improvements - Phase 1	WTM-17-005	\$125,000										\$125,000
30		SW Water Tower Interior Repaint	WTT-19-001	\$450,000										\$450,000
31		Irvinedale Drive Transmission Main - Phase 1	WTM-17-004	\$2,800,000										\$2,800,000
	X	Irvinedale Drive Transmission Main - Phase 2	WTM-17-006	\$255,000	\$2,745,000									\$3,000,000
		Irvinedale Drive Transmission Main - Phase 3	WTM-17-007		\$125,000	\$1,375,000								\$1,500,000
	Y	NW Irvinedale Drive Water Main Improvements - Trestle Ridge Estates to NW 36th Street	WTM-19-002		\$100,000									\$100,000
		Purchase Capacity in Saylorville Feeder Main	WTM-17-008			\$800,000								\$800,000
		NW Tower Transmission Main	WTM-17-009			\$50,000	\$575,000							\$625,000
		High Trestle Trail Transmission Main	WTM-17-001			\$275,000	\$3,225,000							\$3,500,000
		Aquifer Storage and Recovery #1 Replacement	WTT-17-002			\$250,000	\$3,750,000							\$4,000,000
		South Ankeny Boulevard Transmission Main	WTM-18-001				\$160,000	\$1,840,000						\$2,000,000
		Future NW Water Tower	WTT-19-002				\$250,000	\$7,750,000						\$8,000,000
		South Ankeny Boulevard Water Main Improvements - SW Ordnance Road to SE 3rd Street	WTM-19-001					\$90,000	\$1,010,000					\$1,100,000
		NW State Street Water Main Improvements - Phase 2	WTM-19-003					\$42,000	\$658,000					\$700,000
		NW State Street Distribution Main - NW 18th Street to NW 22nd Street	Water						\$50,000	\$350,000				\$400,000
		NW State Street Distribution Main - NW 1st Street to NW 9th Street	Water						\$80,000	\$770,000				\$850,000
		South Ankeny Boulevard Transmission Main - High Trestle Trail to SE 3rd Street	Water							\$140,000	\$1,310,000			\$1,450,000
		Irvinedale Water Tower - Inspection and Repairs	Water									\$300,000		\$300,000
PRAIRIE TRAIL														
PT Map		SW Des Moines Street - SW Prairie Trail Parkway to SW Magazine Road	COR-16-004	\$4,730,000										\$4,730,000
		SW State Street Median Study	COR-18-002	\$25,000										\$25,000
PT Map		SW Des Moines Street Extension - SW Magazine Road to SW 11th Street	COR-19-001	\$3,900,000										\$3,900,000
			Year Totals	\$42,951,900	\$28,541,666	\$20,066,667	\$20,235,000	\$23,712,000	\$22,848,000	\$19,060,000	\$30,610,000	\$32,320,000	\$24,450,000	\$264,795,233

Section 2

City of Ankeny, Iowa
Financial Planning for Capital Projects
Projection of Tax Levies & Tax Rate Impact

EXHIBIT 1

Projected Debt Service Levy Impact	
Tax Impact for FY 19-20:	(\$0.25)
Tax Impact for FY 20-21:	
Tax Impact for FY 21-22:	
Tax Impact for FY 22-23:	

FY20 Pre-Levy => 3,267,834

									PROJECTED GENERAL OBLIGATION DEBT												
									Par	\$12,190,000	\$8,270,000	\$8,650,000	\$8,625,000	\$9,090,000							
								Proceeds	\$12,011,666	\$8,130,000	\$8,501,667	\$8,470,000	\$8,935,000	Estimated				Total	Surplus/ (Deficit)	Ending Fund Balance	
Fiscal Year	Total Tax Valuation	Growth	Taxes Levied	Debt Levy	Utility/ TIF Abatement	Misc Income	Property Tax Backfill	Total Resources	Existing GO Debt	2019 CIP-Taxes	2020 CIP-Taxes	2021 CIP-Taxes	2022 CIP-Taxes	2023 CIP-Taxes	Future GO Bonds	Bond Fees	Other Uses				Total Uses
2014 - 2015	2,441,629,335	5.1%	10,499,005	\$4.3000	7,579,227	10,973	172,081	18,261,286	18,292,763							6,500	4,276	18,303,539	(42,254)	3,606,767	
2015 - 2016	2,611,859,821	7.0%	11,100,404	\$4.2500	8,646,720	11,509	370,494	20,129,128	20,807,512							6,750	(6,982)	20,807,280	(678,153)	2,928,614	
2016 - 2017	2,897,767,321	10.9%	12,315,511	\$4.2500	8,945,811	10,898	372,182	21,644,402	21,641,816							7,000	(4,299)	21,644,516	(114)	2,928,500	
2017 - 2018	3,117,104,836	7.6%	12,935,985	\$4.1500	9,021,835	11,510	373,393	22,342,723	23,123,605							7,000	(8,348)	23,122,257	(779,534)	2,148,966	
2018 - 2019	3,531,530,661	13.3%	13,243,241	\$3.7500	7,801,688	99,000	356,064	21,499,993	21,801,317							7,100		21,808,417	(308,424)	1,840,542	
2019 - 2020	3,842,245,193	8.8%	13,447,858	\$3.5000	7,759,587	129,000	335,351	21,671,796	18,396,263	3,449,856						7,700		21,853,819	(182,022)	1,658,520	
2020 - 2021	3,917,771,290	2.0%	13,712,200	\$3.5000	7,725,770	129,000	318,583	21,885,552	16,759,719	2,097,725	3,024,603					8,300		21,890,347	(4,795)	1,653,725	
2021 - 2022	4,096,941,412	4.6%	14,339,295	\$3.5000	7,109,837	129,000	302,654	21,880,786	14,570,131	1,198,925	1,693,369	4,410,683				8,300		21,881,408	(622)	1,653,103	
2022 - 2023	4,085,094,059	(0.3%)	14,297,829	\$3.5000	7,086,610	129,000	287,521	21,800,960	14,557,744	1,198,325	626,744	2,321,738	3,089,057			8,300		21,801,907	(947)	1,652,157	
2023 - 2024	4,242,090,121	3.8%	14,847,315	\$3.5000	6,974,722	129,000	273,145	22,224,183	14,676,769	1,186,325	627,831	386,788	1,548,769	3,789,980		8,300		22,224,761	(578)	1,651,578	
2024 - 2025	4,246,893,630	0.1%	14,864,128	\$3.5000	5,597,661	129,000	259,488	20,850,277	13,034,694	1,193,325	628,069	384,638	723,919	2,077,219	2,800,532	8,300		20,850,695	(418)	1,651,160	
2025 - 2026	4,372,196,449	3.0%	15,302,688	\$3.5000	5,183,180	129,000	246,513	20,861,381	12,382,050	1,183,525	627,456	387,038	725,406	876,719	4,671,591	8,300		20,862,085	(704)	1,650,456	

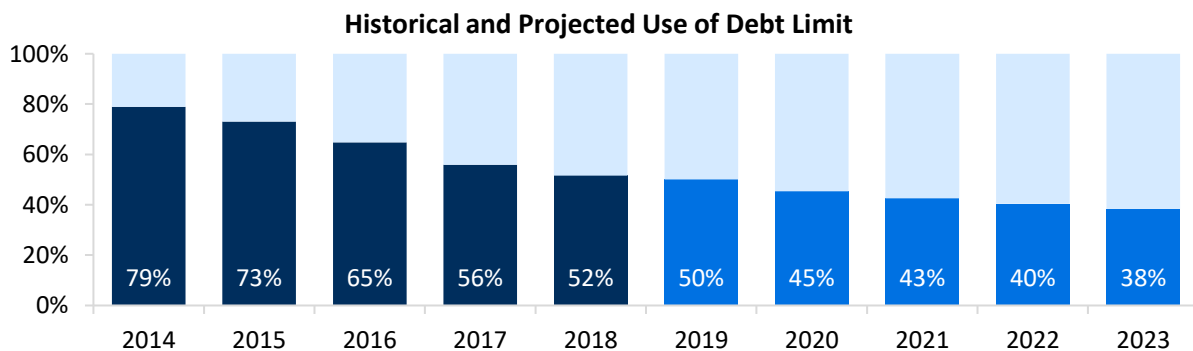
Debt Limit Projection

Based on Constitutional Limit:
5% of Assessed Valuation

Outstanding Debt			
	Issue Date	Maturity Date	Outstanding Debt
	05/15/10	06/01/21	\$ 1,905,000
	05/15/11	06/01/26	5,120,000
	05/30/12	06/01/27	7,340,000
	05/30/13	06/01/28	13,610,000
	05/30/13	06/01/28	9,610,000
	05/29/14	06/01/29	11,680,000
	05/29/14	06/01/29	9,480,000
	12/22/14	06/01/28	16,360,000
	05/28/15	06/01/25	4,985,000
	05/28/15	06/01/24	240,000
	03/31/16	06/01/28	10,315,000
	05/25/16	06/01/26	8,175,000
	05/31/17	06/01/27	8,740,000
	05/30/18	06/01/28	17,970,000
	Rebate & Lease Agreements		9,892,687
	Total Outstanding Debt		\$ 135,422,687

Projected Debt					
Bond Year	Debt Addition	Debt Reduction	Change in Rebates	Net Change	Projected Outstanding Debt
2019	\$ 23,600,000	\$ 17,205,000	\$ -	\$ 6,395,000	\$ 141,817,687
2020	11,480,000	14,535,000	(1,259,059)	(4,314,059)	137,503,628
2021	11,320,000	13,415,000	(1,257,548)	(3,352,548)	134,151,080
2022	8,735,000	11,715,000	(730,982)	(3,710,982)	130,440,098
2023	9,460,000	12,185,000	(655,412)	(3,380,412)	127,059,686

Calculation of Legal Debt Limit					
FY	Assessed Value	Debt Limit Value (5%)	Projected Outstanding Debt	Unused Debt Limit	% of Debt Limit Used
2019	\$ 5,659,720,457	\$ 282,986,023	\$ 141,817,687	\$ 141,168,336	50%
2020	6,065,361,932	303,268,097	137,503,628	165,764,469	45%
2021	6,307,690,821	315,384,541	134,151,080	181,233,461	43%
2022	6,462,046,760	323,102,338	130,440,098	192,662,240	40%
2023	6,620,920,232	331,046,012	127,059,686	203,986,326	38%



Section 3

City of Ankeny, Iowa
2019 - 2023 Capital Improvement Program
2019 thru 2023

CATEGORY SUMMARY

Category	2019	2020	2021	2022	2023	Total
Bridge/Box Culvert	1,810,000	935,000				2,745,000
Corridor Development	8,655,000					8,655,000
Municipal Buildings	5,180,000	6,040,000	685,000	60,000	60,000	12,025,000
Park Facilities	640,000	1,703,000	435,000	350,000	350,000	3,478,000
Sanitary Sewers	3,457,000	854,000	1,150,000	2,490,000	1,630,000	9,581,000
Sidewalks/Trails	2,140,000	570,000	1,700,000	610,000	1,790,000	6,810,000
Storm Water	1,525,000	675,000	900,000	350,000	605,000	4,055,000
Streets and Alleys	13,387,900	13,745,666	11,196,667	7,405,000	8,620,000	54,355,233
Traffic Control	1,320,000	400,000	425,000	425,000	425,000	2,995,000
Water Mains	4,387,000	3,619,000	3,325,000	4,545,000	2,482,000	18,358,000
Water Towers/Storage	450,000		250,000	4,000,000	7,750,000	12,450,000
TOTAL	42,951,900	28,541,666	20,066,667	20,235,000	23,712,000	135,507,233

City of Ankeny, Iowa
2019 - 2023 Capital Improvement Program
2019 thru 2023

PROJECTS BY CATEGORY

Category	Project #	2019	2020	2021	2022	2023	Total
Bridge/Box Culvert							
NE Delaware Avenue Pedestrian Bridge and Sidewalk	BRG-14-002	220,000					220,000
NE 54th Street Bridge Replacement and Trail	BRG-15-001	1,550,000					1,550,000
NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	40,000	935,000				975,000
Bridge/Box Culvert Total		1,810,000	935,000				2,745,000
Corridor Development							
SW Des Moines Street-Prairie Trail to Magazine	COR-16-004	4,730,000					4,730,000
SW State Street Median Study	COR-18-002	25,000					25,000
SW Des Moines Street-Magazine to 11th	COR-19-001	3,900,000					3,900,000
Corridor Development Total		8,655,000					8,655,000
Municipal Buildings							
Library and Former Library Renovation	BLD-16-001	4,700,000					4,700,000
Park Maintenance Facility Renovation	BLD-18-001	80,000	625,000	625,000			1,330,000
Community Entrance Signs	BLD-18-002	30,000	40,000	60,000	60,000	60,000	250,000
Senior Center	BLD-18-003	350,000	4,750,000				5,100,000
HVAC Replacement-City Hall	BLD-18-004		500,000				500,000
Art Center Foundation Repairs	BLD-19-001	20,000	125,000				145,000
Municipal Buildings Total		5,180,000	6,040,000	685,000	60,000	60,000	12,025,000
Park Facilities							
Annual Park Development Program	PRK-00-002	350,000	350,000	350,000	350,000	350,000	1,750,000
Ankeny Market & Pavilion	PRK-13-001	50,000					50,000
Prairie Ridge Sports Complex-Drainage Improvements	PRK-14-002		80,000				80,000
Prairie Ridge Sports Complex-Tee Ball Field	PRK-17-001		154,000				154,000
Older Parks Renovation Plan	PRK-17-003	200,000	229,000	85,000			514,000
High Trestle Trail Trailhead and Parking Lot	PRK-18-001		130,000				130,000
Hawkeye Park Tennis Courts Replacement	PRK-18-003		760,000				760,000
Des Moines Street Corridor Parks Master Plan	PRK-19-001	40,000					40,000
Park Facilities Total		640,000	1,703,000	435,000	350,000	350,000	3,478,000
Sanitary Sewers							
Annual Sanitary Sewer Replacement Program	SNS-00-001	1,032,000	779,000	875,000	860,000	785,000	4,331,000
Otter Creek Trunk Sewer-Phase 3	SNS-11-001			275,000	1,475,000		1,750,000
Otter Creek Trunk Sewer-Phase 4	SNS-12-001				155,000	845,000	1,000,000
Deer Creek Trunk Sewer	SNS-17-001	2,425,000					2,425,000
NW Elm Lane Pipe Replacement	SNS-19-001		75,000				75,000
Sanitary Sewers Total		3,457,000	854,000	1,150,000	2,490,000	1,630,000	9,581,000

Category	Project #	2019	2020	2021	2022	2023	Total
Sidewalks/Trails							
Annual Sidewalk/Trail Construction Program	SDW-00-001	600,000	450,000	400,000	400,000	400,000	2,250,000
High Trestle Trail Extension-Ordinance to Oralabor	SDW-16-001	1,540,000	120,000	1,300,000			2,960,000
Oralabor Gateway Trail-SW State Street Overpass	SDW-19-001				210,000	1,390,000	1,600,000
Sidewalks/Trails Total		2,140,000	570,000	1,700,000	610,000	1,790,000	6,810,000
Storm Water							
Annual Storm Water Replacement Program	STM-00-001	370,000	250,000	250,000	250,000	250,000	1,370,000
Saylor Creek Tributary Channel Improvements	STM-17-001		150,000	650,000			800,000
Wildflower Detention Basin Improvements	STM-18-002	75,000	275,000				350,000
Tradition Park Detention Basin Flood Repair	STM-19-001	470,000					470,000
North Creek Channel Flood Repair	STM-19-002	210,000					210,000
Westwinds Channel Flood Repair	STM-19-003	400,000					400,000
Sawgrass Park Dam Improvements	STM-19-004				100,000	355,000	455,000
Storm Water Total		1,525,000	675,000	900,000	350,000	605,000	4,055,000
Streets and Alleys							
Annual PCC Street Patching Program	STR-00-001	877,000	874,000	970,000	955,000	880,000	4,556,000
Annual Asphalt Street Resurfacing Program	STR-00-002	225,000	150,000	150,000	150,000	150,000	825,000
Annual Pavement Preservation Program	STR-00-003	250,000	250,000	250,000	250,000	250,000	1,250,000
Annual Street Replacement Program	STR-00-004	725,000	1,670,000	1,135,000	710,000	550,000	4,790,000
SE Creekview Drive Drainage and Paving Improvement	STR-05-003	1,025,000					1,025,000
E 1st Street and I-35 Interchange Reconstruction	STR-11-004	1,110,900	1,066,666	666,667			2,844,233
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006		100,000	325,000	4,925,000	4,800,000	10,150,000
S Ankeny Blvd and SE Shurfine Dr Intersection	STR-16-001	3,700,000					3,700,000
NW 18th Street Extension-Weigel to Abbie	STR-16-002	50,000	360,000	3,700,000			4,110,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003				265,000		265,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	650,000	3,125,000	3,125,000			6,900,000
North Ankeny Boulevard Landscaping Improvements	STR-18-001		480,000	420,000			900,000
NW 36th St and NW Ash Dr Interim Improvements	STR-18-002				50,000	525,000	575,000
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003			50,000		300,000	350,000
NW 18th Street Extension-Abbie to Highway 415	STR-18-004			100,000		630,000	730,000
Prairie Ridge Sports Complex-Parking Lot Access	STR-18-005			25,000	100,000	300,000	425,000
S Ankeny Blvd and SW Oralabor Rd Safety Studies	STR-18-006	45,000	25,000				70,000
SE Hulsizer Road Realignment	STR-18-007	325,000	2,125,000				2,450,000
SW Oralabor Road and DMACC Intersection	STR-18-008	900,000					900,000
Ankeny Blvd and 1st St Landscaping Improvements	STR-19-001	75,000					75,000
SE Four Mile Drive Asphalt Overlay	STR-19-002	275,000					275,000
North Ankeny Blvd and Georgetown Blvd Intersection	STR-19-003	560,000					560,000
NW 36th St-Weigel to Irvinedale Asphalt Overlay	STR-19-004					60,000	60,000
SW State Street Paving Improvements	STR-19-005	75,000	1,075,000				1,150,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006					175,000	175,000
South Ankeny Blvd and Magazine Rd Safety Imprv	STR-19-007	10,000	55,000	280,000			345,000
SE Crosswinds Drive/SE 77th Street Imprv	STR-19-008	2,510,000	2,390,000				4,900,000
Streets and Alleys Total		13,387,900	13,745,666	11,196,667	7,405,000	8,620,000	54,355,233
Traffic Control							
Annual Traffic Signal Improvement Program	TRF-00-001	1,320,000	400,000	425,000	425,000	425,000	2,995,000
Traffic Control Total		1,320,000	400,000	425,000	425,000	425,000	2,995,000
Water Mains							
Annual Water Main Replacement Program	WTM-00-001	527,000	649,000	825,000	585,000	510,000	3,096,000
High Trestle Trail Transmission Main	WTM-17-001			275,000	3,225,000		3,500,000

Category	Project #	2019	2020	2021	2022	2023	Total
SE Magazine Road Water Main Improvements	WTM-17-003	555,000					555,000
Irvinedale Drive Transmission Main-Phase 1	WTM-17-004	2,800,000					2,800,000
NW State Street Water Main Improvements-Phase 1	WTM-17-005	125,000					125,000
Irvinedale Drive Transmission Main-Phase 2	WTM-17-006	255,000	2,745,000				3,000,000
Irvinedale Drive Transmission Main-Phase 3	WTM-17-007		125,000	1,375,000			1,500,000
Purchase Capacity in Saylorville Feeder Main	WTM-17-008			800,000			800,000
NW Tower Transmission Main	WTM-17-009			50,000	575,000		625,000
South Ankeny Boulevard Transmission Main	WTM-18-001				160,000	1,840,000	2,000,000
S Ankeny Blvd Water Main-Ordinance to SE 3rd St	WTM-19-001					90,000	90,000
NW Irvinedale Dr Water Main-Trestle to 36th	WTM-19-002		100,000				100,000
NW State Street Water Main Improvements-Phase 2	WTM-19-003					42,000	42,000
NW Irvinedale Drive Water Main Improvements	WTM-19-004	125,000					125,000
Water Mains Total		4,387,000	3,619,000	3,325,000	4,545,000	2,482,000	18,358,000
Water Towers/Storage							
Aquifer Storage and Recovery #1 Replacement	WTT-17-002			250,000	3,750,000		4,000,000
SW Water Tower Interior Repaint	WTT-19-001	450,000					450,000
Future NW Water Tower	WTT-19-002				250,000	7,750,000	8,000,000
Water Towers/Storage Total		450,000		250,000	4,000,000	7,750,000	12,450,000
GRAND TOTAL		42,951,900	28,541,666	20,066,667	20,235,000	23,712,000	135,507,233

City of Ankeny, Iowa
2019 - 2023 Capital Improvement Program
2019 thru 2023

PROJECTS BY YEAR

Project Name	Department	Project #	Project Cost
2019			
Library and Former Library Renovation	Administration	BLD-16-001	4,700,000
Community Entrance Signs	Administration	BLD-18-002	30,000
Senior Center	Administration	BLD-18-003	350,000
Art Center Foundation Repairs	Administration	BLD-19-001	20,000
Park Maintenance Facility Renovation	Parks and Recreation	BLD-18-001	80,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
Ankeny Market & Pavilion	Parks and Recreation	PRK-13-001	50,000
Older Parks Renovation Plan	Parks and Recreation	PRK-17-003	200,000
Des Moines Street Corridor Parks Master Plan	Parks and Recreation	PRK-19-001	40,000
NE Delaware Avenue Pedestrian Bridge and Sidewalk	Public Works	BRG-14-002	220,000
NE 54th Street Bridge Replacement and Trail	Public Works	BRG-15-001	1,550,000
NE Four Mile Drive RCB Culvert for Deer Creek	Public Works	BRG-17-001	40,000
SW Des Moines Street-Prairie Trail to Magazine	Public Works	COR-16-004	4,730,000
SW State Street Median Study	Public Works	COR-18-002	25,000
SW Des Moines Street-Magazine to 11th	Public Works	COR-19-001	3,900,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	600,000
High Trestle Trail Extension-Ordinance to Oralabor	Public Works	SDW-16-001	1,540,000
Annual PCC Street Patching Program	Public Works	STR-00-001	877,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	225,000
Annual Pavement Preservation Program	Public Works	STR-00-003	250,000
Annual Street Replacement Program	Public Works	STR-00-004	725,000
SE Creekview Drive Drainage and Paving Improvement	Public Works	STR-05-003	1,025,000
E 1st Street and I-35 Interchange Reconstruction	Public Works	STR-11-004	1,110,900
S Ankeny Blvd and SE Shurfine Dr Intersection	Public Works	STR-16-001	3,700,000
NW 18th Street Extension-Weigel to Abbie	Public Works	STR-16-002	50,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	650,000
S Ankeny Blvd and SW Oralabor Rd Safety Studies	Public Works	STR-18-006	45,000
SE Hulsizer Road Realignment	Public Works	STR-18-007	325,000
SW Oralabor Road and DMACC Intersection	Public Works	STR-18-008	900,000
Ankeny Blvd and 1st St Landscaping Improvements	Public Works	STR-19-001	75,000
SE Four Mile Drive Asphalt Overlay	Public Works	STR-19-002	275,000
North Ankeny Blvd and Georgetown Blvd Intersection	Public Works	STR-19-003	560,000
SW State Street Paving Improvements	Public Works	STR-19-005	75,000
South Ankeny Blvd and Magazine Rd Safety Imprv	Public Works	STR-19-007	10,000
SE Crosswinds Drive/SE 77th Street Imprv	Public Works	STR-19-008	2,510,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	1,320,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	1,032,000
Deer Creek Trunk Sewer	Sewer Utility	SNS-17-001	2,425,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	370,000
Wildflower Detention Basin Improvements	Storm Water Utility	STM-18-002	75,000
Tradition Park Detention Basin Flood Repair	Storm Water Utility	STM-19-001	470,000
North Creek Channel Flood Repair	Storm Water Utility	STM-19-002	210,000
Westwinds Channel Flood Repair	Storm Water Utility	STM-19-003	400,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	527,000

Project Name	Department	Project #	Project Cost
SE Magazine Road Water Main Improvements	Water Utility	WTM-17-003	555,000
Irvinedale Drive Transmission Main-Phase 1	Water Utility	WTM-17-004	2,800,000
NW State Street Water Main Improvements-Phase 1	Water Utility	WTM-17-005	125,000
Irvinedale Drive Transmission Main-Phase 2	Water Utility	WTM-17-006	255,000
NW Irvinedale Drive Water Main Improvements	Water Utility	WTM-19-004	125,000
SW Water Tower Interior Repaint	Water Utility	WTT-19-001	450,000
Total for 2019			42,951,900

2020

Community Entrance Signs	Administration	BLD-18-002	40,000
Senior Center	Administration	BLD-18-003	4,750,000
HVAC Replacement-City Hall	Administration	BLD-18-004	500,000
Art Center Foundation Repairs	Administration	BLD-19-001	125,000
Park Maintenance Facility Renovation	Parks and Recreation	BLD-18-001	625,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
Prairie Ridge Sports Complex-Drainage Improvements	Parks and Recreation	PRK-14-002	80,000
Prairie Ridge Sports Complex-Tee Ball Field	Parks and Recreation	PRK-17-001	154,000
Older Parks Renovation Plan	Parks and Recreation	PRK-17-003	229,000
High Trestle Trail Trailhead and Parking Lot	Parks and Recreation	PRK-18-001	130,000
Hawkeye Park Tennis Courts Replacement	Parks and Recreation	PRK-18-003	760,000
NE Four Mile Drive RCB Culvert for Deer Creek	Public Works	BRG-17-001	935,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	450,000
High Trestle Trail Extension-Ordinance to Oralabor	Public Works	SDW-16-001	120,000
Annual PCC Street Patching Program	Public Works	STR-00-001	874,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	250,000
Annual Street Replacement Program	Public Works	STR-00-004	1,670,000
E 1st Street and I-35 Interchange Reconstruction	Public Works	STR-11-004	1,066,666
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	100,000
NW 18th Street Extension-Weigel to Abbie	Public Works	STR-16-002	360,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	3,125,000
North Ankeny Boulevard Landscaping Improvements	Public Works	STR-18-001	480,000
S Ankeny Blvd and SW Oralabor Rd Safety Studies	Public Works	STR-18-006	25,000
SE Hulsizer Road Realignment	Public Works	STR-18-007	2,125,000
SW State Street Paving Improvements	Public Works	STR-19-005	1,075,000
South Ankeny Blvd and Magazine Rd Safety Imprv	Public Works	STR-19-007	55,000
SE Crosswinds Drive/SE 77th Street Imprv	Public Works	STR-19-008	2,390,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	400,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	779,000
NW Elm Lane Pipe Replacement	Sewer Utility	SNS-19-001	75,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Saylor Creek Tributary Channel Improvements	Storm Water Utility	STM-17-001	150,000
Wildflower Detention Basin Improvements	Storm Water Utility	STM-18-002	275,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	649,000
Irvinedale Drive Transmission Main-Phase 2	Water Utility	WTM-17-006	2,745,000
Irvinedale Drive Transmission Main-Phase 3	Water Utility	WTM-17-007	125,000
NW Irvinedale Dr Water Main-Trestle to 36th	Water Utility	WTM-19-002	100,000
Total for 2020			28,541,666

2021

Community Entrance Signs	Administration	BLD-18-002	60,000
Park Maintenance Facility Renovation	Parks and Recreation	BLD-18-001	625,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
Older Parks Renovation Plan	Parks and Recreation	PRK-17-003	85,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	400,000

Project Name	Department	Project #	Project Cost
High Trestle Trail Extension-Ordnance to Oralabor	Public Works	SDW-16-001	1,300,000
Annual PCC Street Patching Program	Public Works	STR-00-001	970,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	250,000
Annual Street Replacement Program	Public Works	STR-00-004	1,135,000
E 1st Street and I-35 Interchange Reconstruction	Public Works	STR-11-004	666,667
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	325,000
NW 18th Street Extension-Weigel to Abbie	Public Works	STR-16-002	3,700,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	3,125,000
North Ankeny Boulevard Landscaping Improvements	Public Works	STR-18-001	420,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	50,000
NW 18th Street Extension-Abbie to Highway 415	Public Works	STR-18-004	100,000
Prairie Ridge Sports Complex-Parking Lot Access	Public Works	STR-18-005	25,000
South Ankeny Blvd and Magazine Rd Safety Imprv	Public Works	STR-19-007	280,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	425,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	875,000
Otter Creek Trunk Sewer-Phase 3	Sewer Utility	SNS-11-001	275,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Saylor Creek Tributary Channel Improvements	Storm Water Utility	STM-17-001	650,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	825,000
High Trestle Trail Transmission Main	Water Utility	WTM-17-001	275,000
Irvinedale Drive Transmission Main-Phase 3	Water Utility	WTM-17-007	1,375,000
Purchase Capacity in Saylorville Feeder Main	Water Utility	WTM-17-008	800,000
NW Tower Transmission Main	Water Utility	WTM-17-009	50,000
Aquifer Storage and Recovery #1 Replacement	Water Utility	WTT-17-002	250,000
Total for 2021			20,066,667

2022

Community Entrance Signs	Administration	BLD-18-002	60,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	400,000
Oralabor Gateway Trail-SW State Street Overpass	Public Works	SDW-19-001	210,000
Annual PCC Street Patching Program	Public Works	STR-00-001	955,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	250,000
Annual Street Replacement Program	Public Works	STR-00-004	710,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	4,925,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	Public Works	STR-16-003	265,000
NW 36th St and NW Ash Dr Interim Improvements	Public Works	STR-18-002	50,000
Prairie Ridge Sports Complex-Parking Lot Access	Public Works	STR-18-005	100,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	425,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	860,000
Otter Creek Trunk Sewer-Phase 3	Sewer Utility	SNS-11-001	1,475,000
Otter Creek Trunk Sewer-Phase 4	Sewer Utility	SNS-12-001	155,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Sawgrass Park Dam Improvements	Storm Water Utility	STM-19-004	100,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	585,000
High Trestle Trail Transmission Main	Water Utility	WTM-17-001	3,225,000
NW Tower Transmission Main	Water Utility	WTM-17-009	575,000
South Ankeny Boulevard Transmission Main	Water Utility	WTM-18-001	160,000
Aquifer Storage and Recovery #1 Replacement	Water Utility	WTT-17-002	3,750,000
Future NW Water Tower	Water Utility	WTT-19-002	250,000
Total for 2022			20,235,000

2023

Project Name	Department	Project #	Project Cost
Community Entrance Signs	Administration	BLD-18-002	60,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	400,000
Oralabor Gateway Trail-SW State Street Overpass	Public Works	SDW-19-001	1,390,000
Annual PCC Street Patching Program	Public Works	STR-00-001	880,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	250,000
Annual Street Replacement Program	Public Works	STR-00-004	550,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	4,800,000
NW 36th St and NW Ash Dr Interim Improvements	Public Works	STR-18-002	525,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	300,000
NW 18th Street Extension-Abbie to Highway 415	Public Works	STR-18-004	630,000
Prairie Ridge Sports Complex-Parking Lot Access	Public Works	STR-18-005	300,000
NW 36th St-Weigel to Irvinedale Asphalt Overlay	Public Works	STR-19-004	60,000
SW Oralabor Rd and SW Edgewood Ln Intersection	Public Works	STR-19-006	175,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	425,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	785,000
Otter Creek Trunk Sewer-Phase 4	Sewer Utility	SNS-12-001	845,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Sawgrass Park Dam Improvements	Storm Water Utility	STM-19-004	355,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	510,000
South Ankeny Boulevard Transmission Main	Water Utility	WTM-18-001	1,840,000
S Ankeny Blvd Water Main-Ordinance to SE 3rd St	Water Utility	WTM-19-001	90,000
NW State Street Water Main Improvements-Phase 2	Water Utility	WTM-19-003	42,000
Future NW Water Tower	Water Utility	WTT-19-002	7,750,000
Total for 2023			23,712,000
GRAND TOTAL			135,507,233

City of Ankeny, Iowa
2019 - 2023 Capital Improvement Program
2019 thru 2023

FUNDING SOURCE SUMMARY

Source	2019	2020	2021	2022	2023	Total
Ankeny Community Foundation	50,000					50,000
Capital Project Fund	2,856,500	1,363,000	700,000	445,000	295,000	5,659,500
Capital Reserve Fund	450,000	3,760,000	625,000			4,835,000
Civic Trust Fund	40,000					40,000
County Contributions		2,000,000				2,000,000
FHWA/IDOT Grants	3,325,000	1,141,000	325,000		75,000	4,866,000
G.O. Bonds	7,311,666	6,079,666	8,501,667	8,405,000	8,935,000	39,232,999
G.O. Bonds - Referendum	4,700,000					4,700,000
G.O. Bonds - Storm Water Abated	615,000	425,000	650,000	100,000	355,000	2,145,000
G.O. Bonds - TIF Abated	10,630,000	2,729,000	1,975,000			15,334,000
General Fund	200,000	229,000	85,000			514,000
Hotel/Motel Tax Fund	105,000	280,000	270,000	60,000	60,000	775,000
IDNR/REAP Grants	200,000					200,000
MPO/STBG Grants	400,000	1,380,000	1,850,000		1,950,000	5,580,000
Other Grants	652,500					652,500
Park Dedication Fund	50,000	50,000	50,000	50,000	50,000	250,000
Private Contributions	2,395,000	3,390,000				5,785,000
Road Use Tax Fund	1,670,000	1,320,000	760,000	335,000	175,000	4,260,000
Sewer Fund	1,450,000	575,000	775,000	2,130,000	1,345,000	6,275,000
Storm Water Fund	250,000	250,000	250,000	250,000	250,000	1,250,000
Water Fund	500,000	500,000	500,000	500,000	500,000	2,500,000
Water Revenue Bonds	5,101,234	3,070,000	2,750,000	7,960,000	9,722,000	28,603,234
GRAND TOTAL	42,951,900	28,541,666	20,066,667	20,235,000	23,712,000	135,507,233

City of Ankeny, Iowa
2019 - 2023 Capital Improvement Program
 2019 thru 2023

PROJECTS BY FUNDING SOURCE

Source	Project #	2019	2020	2021	2022	2023	Total
Ankeny Community Foundation							
Ankeny Market & Pavilion	PRK-13-001	50,000					50,000
Ankeny Community Foundation Total		50,000					50,000
Capital Project Fund							
NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	40,000	935,000				975,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	300,000					300,000
Annual Sanitary Sewer Replacement Program	SNS-00-001	532,000	279,000	375,000	360,000	285,000	1,831,000
Deer Creek Trunk Sewer	SNS-17-001	1,475,000					1,475,000
Annual Storm Water Replacement Program	STM-00-001	7,500					7,500
Annual PCC Street Patching Program	STR-00-001	100,000					100,000
Annual Asphalt Street Resurfacing Program	STR-00-002	75,000					75,000
Annual Street Replacement Program	STR-00-004	200,000					200,000
Annual Traffic Signal Improvement Program	TRF-00-001	100,000					100,000
Annual Water Main Replacement Program	WTM-00-001	27,000	149,000	325,000	85,000	10,000	596,000
Capital Project Fund Total		2,856,500	1,363,000	700,000	445,000	295,000	5,659,500
Capital Reserve Fund							
Park Maintenance Facility Renovation	BLD-18-001	80,000	625,000	625,000			1,330,000
Senior Center	BLD-18-003	350,000	1,750,000				2,100,000
HVAC Replacement-City Hall	BLD-18-004		500,000				500,000
Art Center Foundation Repairs	BLD-19-001	20,000	125,000				145,000
Hawkeye Park Tennis Courts Replacement	PRK-18-003		760,000				760,000
Capital Reserve Fund Total		450,000	3,760,000	625,000			4,835,000
Civic Trust Fund							
Des Moines Street Corridor Parks Master Plan	PRK-19-001	40,000					40,000
Civic Trust Fund Total		40,000					40,000
County Contributions							
Senior Center	BLD-18-003		2,000,000				2,000,000
County Contributions Total			2,000,000				2,000,000
FHWA/IDOT Grants							
NE 54th Street Bridge Replacement and Trail	BRG-15-001	1,000,000					1,000,000
High Trestle Trail Extension-Ordinance to Oralabor	SDW-16-001	300,000		200,000			500,000
S Ankeny Blvd and SE Shurfine Dr Intersection	STR-16-001	850,000					850,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004		500,000				500,000

Source	Project #	2019	2020	2021	2022	2023	Total
SE Hulsizer Road Realignment	STR-18-007		641,000				641,000
SW Oralabor Road and DMACC Intersection	STR-18-008	500,000					500,000
North Ankeny Blvd and Georgetown Blvd Intersection	STR-19-003	175,000					175,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006					75,000	75,000
South Ankeny Blvd and Magazine Rd Safety Imprv	STR-19-007			125,000			125,000
SE Crosswinds Drive/SE 77th Street Imprv	STR-19-008	500,000					500,000
FHWA/IDOT Grants Total		3,325,000	1,141,000	325,000		75,000	4,866,000

G.O. Bonds

NE Delaware Avenue Pedestrian Bridge and Sidewalk	BRG-14-002	220,000					220,000
NE 54th Street Bridge Replacement and Trail	BRG-15-001	150,000					150,000
Annual Park Development Program	PRK-00-002	300,000	300,000	300,000	300,000	300,000	1,500,000
Prairie Ridge Sports Complex-Drainage Improvements	PRK-14-002		80,000				80,000
Prairie Ridge Sports Complex-Tee Ball Field	PRK-17-001		154,000				154,000
High Trestle Trail Trailhead and Parking Lot	PRK-18-001		130,000				130,000
Annual Sidewalk/Trail Construction Program	SDW-00-001		325,000	275,000	275,000	275,000	1,150,000
High Trestle Trail Extension-Ordinance to Oralabor	SDW-16-001	1,040,000	120,000	400,000			1,560,000
Oralabor Gateway Trail-SW State Street Overpass	SDW-19-001				210,000	940,000	1,150,000
Annual PCC Street Patching Program	STR-00-001	777,000	874,000	970,000	955,000	880,000	4,456,000
Annual Asphalt Street Resurfacing Program	STR-00-002	150,000	150,000	150,000	150,000	150,000	750,000
Annual Pavement Preservation Program	STR-00-003	250,000	250,000	250,000	250,000	250,000	1,250,000
Annual Street Replacement Program	STR-00-004		500,000	500,000	500,000	500,000	2,000,000
E 1st Street and I-35 Interchange Reconstruction	STR-11-004	469,666	966,666	666,667			2,102,999
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006		100,000	325,000	4,925,000	3,300,000	8,650,000
S Ankeny Blvd and SE Shurfine Dr Intersection	STR-16-001	2,700,000					2,700,000
NW 18th Street Extension-Weigel to Abbie	STR-16-002	50,000	360,000	3,700,000			4,110,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003				265,000		265,000
North Ankeny Boulevard Landscaping Improvements	STR-18-001		240,000	210,000			450,000
NW 36th St and NW Ash Dr Interim Improvements	STR-18-002				50,000	525,000	575,000
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003			50,000		300,000	350,000
NW 18th Street Extension-Abbie to Highway 415	STR-18-004			100,000		630,000	730,000
Prairie Ridge Sports Complex-Parking Lot Access	STR-18-005			25,000	100,000	300,000	425,000
SW Oralabor Road and DMACC Intersection	STR-18-008	200,000					200,000
North Ankeny Blvd and Georgetown Blvd Intersection	STR-19-003	260,000					260,000
NW 36th St-Weigel to Irvinedale Asphalt Overlay	STR-19-004					60,000	60,000
SW State Street Paving Improvements	STR-19-005	75,000	1,075,000				1,150,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006					100,000	100,000
South Ankeny Blvd and Magazine Rd Safety Imprv	STR-19-007	10,000	55,000	155,000			220,000
Annual Traffic Signal Improvement Program	TRF-00-001	660,000	400,000	425,000	425,000	425,000	2,335,000
G.O. Bonds Total		7,311,666	6,079,666	8,501,667	8,405,000	8,935,000	39,232,999

G.O. Bonds - Referendum

Library and Former Library Renovation	BLD-16-001	4,700,000					4,700,000
G.O. Bonds - Referendum Total		4,700,000					4,700,000

G.O. Bonds - Storm Water Abated

Saylor Creek Tributary Channel Improvements	STM-17-001		150,000	650,000			800,000
Wildflower Detention Basin Improvements	STM-18-002	75,000	275,000				350,000
Tradition Park Detention Basin Flood Repair	STM-19-001	235,000					235,000
North Creek Channel Flood Repair	STM-19-002	105,000					105,000
Westwinds Channel Flood Repair	STM-19-003	200,000					200,000

Source	Project #	2019	2020	2021	2022	2023	Total
Sawgrass Park Dam Improvements	STM-19-004				100,000	355,000	455,000
G.O. Bonds - Storm Water Abated Total		615,000	425,000	650,000	100,000	355,000	2,145,000
G.O. Bonds - TIF Abated							
SW Des Moines Street-Prairie Trail to Magazine	COR-16-004	4,730,000					4,730,000
SW Des Moines Street-Magazine to 11th	COR-19-001	3,900,000					3,900,000
SE Creekview Drive Drainage and Paving Improvement	STR-05-003	1,025,000					1,025,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	650,000	1,245,000	1,975,000			3,870,000
SE Hulsizer Road Realignment	STR-18-007	325,000	1,484,000				1,809,000
G.O. Bonds - TIF Abated Total		10,630,000	2,729,000	1,975,000			15,334,000
General Fund							
Older Parks Renovation Plan	PRK-17-003	200,000	229,000	85,000			514,000
General Fund Total		200,000	229,000	85,000			514,000
Hotel/Motel Tax Fund							
Community Entrance Signs	BLD-18-002	30,000	40,000	60,000	60,000	60,000	250,000
North Ankeny Boulevard Landscaping Improvements	STR-18-001		240,000	210,000			450,000
Ankeny Blvd and 1st St Landscaping Improvements	STR-19-001	75,000					75,000
Hotel/Motel Tax Fund Total		105,000	280,000	270,000	60,000	60,000	775,000
IDNR/REAP Grants							
High Trestle Trail Extension-Ordnance to Oralabor	SDW-16-001	200,000					200,000
IDNR/REAP Grants Total		200,000					200,000
MPO/STBG Grants							
NE 54th Street Bridge Replacement and Trail	BRG-15-001	400,000					400,000
High Trestle Trail Extension-Ordnance to Oralabor	SDW-16-001			700,000			700,000
Oralabor Gateway Trail-SW State Street Overpass	SDW-19-001				450,000		450,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006				1,500,000		1,500,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004		1,380,000	1,150,000			2,530,000
MPO/STBG Grants Total		400,000	1,380,000	1,850,000		1,950,000	5,580,000
Other Grants							
Annual Storm Water Replacement Program	STM-00-001	112,500					112,500
Tradition Park Detention Basin Flood Repair	STM-19-001	235,000					235,000
North Creek Channel Flood Repair	STM-19-002	105,000					105,000
Westwinds Channel Flood Repair	STM-19-003	200,000					200,000
Other Grants Total		652,500					652,500
Park Dedication Fund							
Annual Park Development Program	PRK-00-002	50,000	50,000	50,000	50,000	50,000	250,000
Park Dedication Fund Total		50,000	50,000	50,000	50,000	50,000	250,000

Source	Project #	2019	2020	2021	2022	2023	Total
Private Contributions							
Senior Center	BLD-18-003		1,000,000				1,000,000
SW Oralabor Road and DMACC Intersection	STR-18-008	200,000					200,000
North Ankeny Blvd and Georgetown Blvd Intersection	STR-19-003	125,000					125,000
SE Crosswinds Drive/SE 77th Street Imprv	STR-19-008	2,010,000	2,390,000				4,400,000
Annual Traffic Signal Improvement Program	TRF-00-001	60,000					60,000
Private Contributions Total		2,395,000	3,390,000				5,785,000
Road Use Tax Fund							
SW State Street Median Study	COR-18-002	25,000					25,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	300,000	125,000	125,000	125,000	125,000	800,000
Annual Street Replacement Program	STR-00-004	525,000	1,170,000	635,000	210,000	50,000	2,590,000
S Ankeny Blvd and SW Oralabor Rd Safety Studies	STR-18-006	45,000	25,000				70,000
SE Four Mile Drive Asphalt Overlay	STR-19-002	275,000					275,000
Annual Traffic Signal Improvement Program	TRF-00-001	500,000					500,000
Road Use Tax Fund Total		1,670,000	1,320,000	760,000	335,000	175,000	4,260,000
Sewer Fund							
Annual Sanitary Sewer Replacement Program	SNS-00-001	500,000	500,000	500,000	500,000	500,000	2,500,000
Otter Creek Trunk Sewer-Phase 3	SNS-11-001			275,000	1,475,000		1,750,000
Otter Creek Trunk Sewer-Phase 4	SNS-12-001				155,000	845,000	1,000,000
Deer Creek Trunk Sewer	SNS-17-001	950,000					950,000
NW Elm Lane Pipe Replacement	SNS-19-001		75,000				75,000
Sewer Fund Total		1,450,000	575,000	775,000	2,130,000	1,345,000	6,275,000
Storm Water Fund							
Annual Storm Water Replacement Program	STM-00-001	250,000	250,000	250,000	250,000	250,000	1,250,000
Storm Water Fund Total		250,000	250,000	250,000	250,000	250,000	1,250,000
Water Fund							
Annual Water Main Replacement Program	WTM-00-001	500,000	500,000	500,000	500,000	500,000	2,500,000
Water Fund Total		500,000	500,000	500,000	500,000	500,000	2,500,000
Water Revenue Bonds							
E 1st Street and I-35 Interchange Reconstruction	STR-11-004	641,234	100,000				741,234
S Ankeny Blvd and SE Shurfine Dr Intersection	STR-16-001	150,000					150,000
High Trestle Trail Transmission Main	WTM-17-001			275,000	3,225,000		3,500,000
SE Magazine Road Water Main Improvements	WTM-17-003	555,000					555,000
Irvinedale Drive Transmission Main-Phase 1	WTM-17-004	2,800,000					2,800,000
NW State Street Water Main Improvements-Phase 1	WTM-17-005	125,000					125,000
Irvinedale Drive Transmission Main-Phase 2	WTM-17-006	255,000	2,745,000				3,000,000
Irvinedale Drive Transmission Main-Phase 3	WTM-17-007		125,000	1,375,000			1,500,000
Purchase Capacity in Saylorville Feeder Main	WTM-17-008			800,000			800,000
NW Tower Transmission Main	WTM-17-009			50,000	575,000		625,000
South Ankeny Boulevard Transmission Main	WTM-18-001				160,000	1,840,000	2,000,000
S Ankeny Blvd Water Main-Ordinance to SE 3rd St	WTM-19-001					90,000	90,000
NW Irvinedale Dr Water Main-Trestle to 36th	WTM-19-002		100,000				100,000

Source	Project #	2019	2020	2021	2022	2023	Total
NW State Street Water Main Improvements-Phase 2	WTM-19-003					42,000	42,000
NW Irvinedale Drive Water Main Improvements	WTM-19-004	125,000					125,000
Aquifer Storage and Recovery #1 Replacement	WTT-17-002			250,000	3,750,000		4,000,000
SW Water Tower Interior Repaint	WTT-19-001	450,000					450,000
Future NW Water Tower	WTT-19-002				250,000	7,750,000	8,000,000
Water Revenue Bonds Total		5,101,234	3,070,000	2,750,000	7,960,000	9,722,000	28,603,234
GRAND TOTAL		42,951,900	28,541,666	20,066,667	20,235,000	23,712,000	135,507,233

Section 4

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Administration
Contact Assistant City Manager
Type New Construction
Useful Life 40 years
Category Municipal Buildings

Project # BLD-16-001

Project Name Library and Former Library Renovation

Description

The Ankeny Kirkendall Public Library is currently under construction. The focus of this project moving forward is the repurposing of the existing library into the new Ankeny Public Services Building. The 26,000 SF facility will be remodeled into an office facility that will house the Planning and Building, Public Works, Municipal Utilities, and Parks and Recreation departments. A new parking lot and building façade is contemplated, along with drainage improvements and HVAC updates.

Justification

The existing Public Services Building carries a significant lease payment, which is not practical for long-term occupancy. The building is at maximum capacity for the four departments that occupy it. City staff recently completed the RFP process for the architectural services needed for this remodeling project and SVPA Architects was chosen to complete the project.

Expenditures	2019	2020	2021	2022	2023	Total
Architect	361,200					361,200
Construction Costs	4,020,000					4,020,000
Furniture, Fixtures & Equipment	318,800					318,800
Total	4,700,000					4,700,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds - Referendum	4,700,000					4,700,000
Total	4,700,000					4,700,000

Budget Impact/Other

Operating impacts will be determined during final design of the project. Anticipated operating costs include utilities, insurance, cleaning services, and maintenance/upkeep of the facility. Placeholder amounts are included at this time.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs			6,000	6,000	6,000	18,000
Utilities			12,000	12,000	12,000	36,000
Total			18,000	18,000	18,000	54,000

2019 - 2023 Capital Improvement Program

City of Ankeny, Iowa

2019 *thru* 2023

Department Administration

Contact Assistant City Manager

Project # BLD-16-001

Project Name Library and Former Library Renovation



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Parks and Recreation
Contact Assistant City Manager
Type Improvement
Useful Life 20 years
Category Municipal Buildings

Project # BLD-18-001
Project Name Park Maintenance Facility Renovation

Description

Renovate and expand the current Park Maintenance Facility.

Justification

The current Park Maintenance Facility, located at 210 NW Ash Drive, serves the entire park system. These facilities have provided accommodation for the past fifty-two years. As Ankeny continues to grow and additional parks, facilities, parking lots, trail and park amenities are brought into the system, this maintenance facility will need to be improved to stay in step with the growth.

The current facility has been included in various City facility assessments with options that included moving the facility to the old Wastewater Treatment Plant or current Public Works locations, but the overall construction costs have been prohibitive. Based on the facility's centrally located position within the City, current site services and its proximity to community and regional trail connections, department staff is recommending expanding the current building to better accommodate Ankeny's growth and needed space requirements.

The current Parks & Facilities Plan outlines an economical approach to expanding the facility at its current site with identified immediate needs and potential long term needs. With the vacation of the Godwin building on SW Des Moines Street and the demolition of the storage buildings on SW 3rd Street, the vast majority of the Parks Division's equipment has been dispersed and/or now needs to be stored outside. Many inefficiencies and problematic conditions are created by having our equipment presently scattered throughout the City at the old Wastewater Plant, beneath the west water tower and sitting outside in the elements year-round.

The estimated project costs include renovating the current office spaces and adjoining an 80'x50' addition on the west end of the facility that would accommodate our current and future support vehicles. Phase I work includes renovating the office area, break room, restrooms (42'x50') and running new sanitary and water services. Phase II includes the 80'x50' metal building addition, storm water management, new doors and parking lot improvements.

Expenditures	2019	2020	2021	2022	2023	Total
Architect	80,000					80,000
Engineering-Construction Services		25,000	25,000			50,000
Construction Costs		600,000	600,000			1,200,000
Total	80,000	625,000	625,000			1,330,000

Funding Sources	2019	2020	2021	2022	2023	Total
Capital Reserve Fund	80,000	625,000	625,000			1,330,000
Total	80,000	625,000	625,000			1,330,000

Budget Impact/Other

Maintenance and operating costs for Phase I will be insignificant as this phase of construction will be renovations, which will ultimately include some overall cost savings with improved energy efficiencies. The building addition for Phase II will result in additional operating and maintenance costs beginning in fiscal year 2022 and is estimated at \$8,600 annually.

Budget Items	2019	2020	2021	2022	2023	Total
Utilities				8,600	8,600	17,200
Total				8,600	8,600	17,200

City of Ankeny, Iowa

2019 *thru* 2023

Department Parks and Recreation

Contact Assistant City Manager

Project # **BLD-18-001**

Project Name	Park Maintenance Facility Renovation
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2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Administration
Contact Assistant City Manager
Type New Construction
Useful Life 40 years
Category Municipal Buildings

Project # BLD-18-002
Project Name Community Entrance Signs

Description

The two large welcome signs along Interstate 35 were constructed in 2018. Additional smaller signs are planned for future construction. Assuming 8 smaller signs are constructed:

- Landscaping around the two interstate signs will be completed in 2019.
- A feasibility study with final council approval of sign locations will be completed in 2019.
- Property acquisitions/permits will be obtained in 2020.
- Engineering and bidding for the smaller signs will be completed in 2020.
- Three signs will be completed in 2021.
- Three signs will be completed in 2022.

Justification

The installation of welcome signs was identified by the city council as a priority during strategic planning sessions. As a first phase of meeting this objective, the two large scale Interstate 35 signs were built, and additional smaller-scale signs are planned for future consideration pending council authorization. These smaller signs will be placed at the corporate limits on some of the state highways and county collector routes. These signs will showcase and promote our successful city.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	2,000	20,000				22,000
Construction Costs	20,000		60,000	60,000	60,000	200,000
Land/ROW Acquisition		20,000				20,000
Planning Study	8,000					8,000
Total	30,000	40,000	60,000	60,000	60,000	250,000

Funding Sources	2019	2020	2021	2022	2023	Total
Hotel/Motel Tax Fund	30,000	40,000	60,000	60,000	60,000	250,000
Total	30,000	40,000	60,000	60,000	60,000	250,000

Budget Impact/Other

After completion, the two large interstate signs will require electric service and a minor amount of landscaping maintenance each year. The other eight signs will require minor landscaping maintenance each year.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs	150	300	1,000	1,000	1,000	3,450
Utilities	300	300	300	300	300	1,500
Total	450	600	1,300	1,300	1,300	4,950

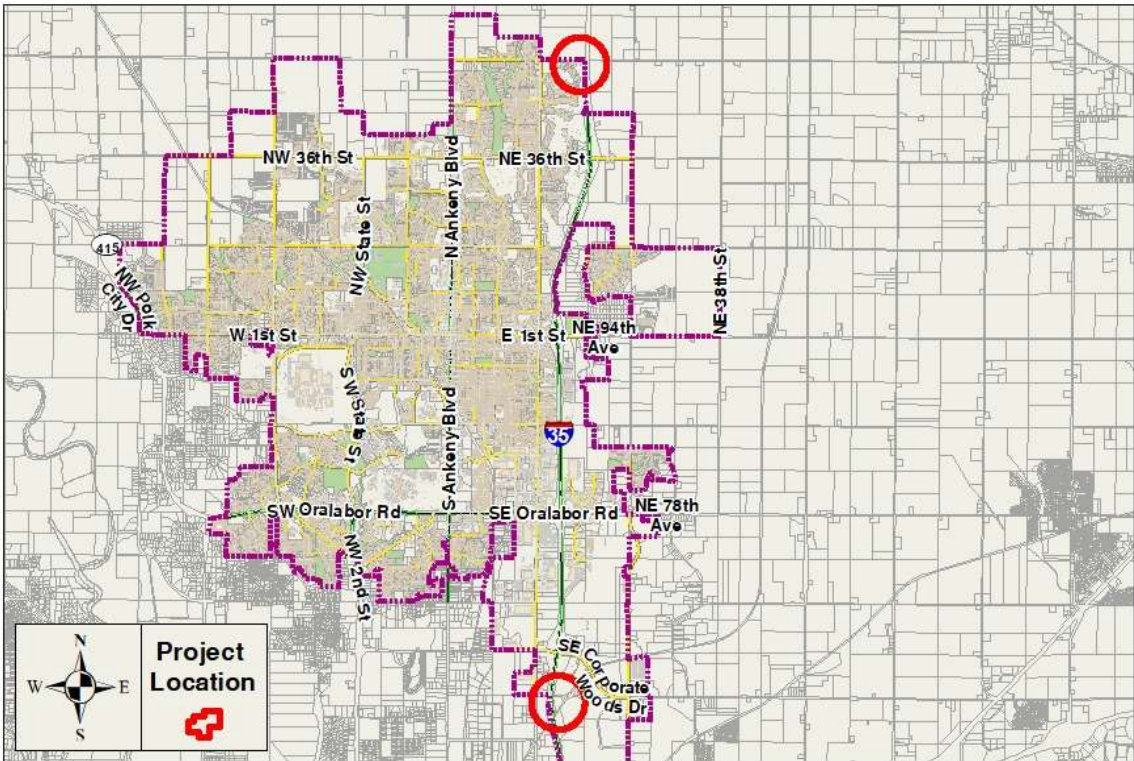
2019 - 2023 Capital Improvement Program

2019 thru 2023

City of Ankeny, Iowa

Department Administration
Contact Assistant City Manager

Project #	BLD-18-002
Project Name	Community Entrance Signs



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Type New Construction

Useful Life 40 years

Category Municipal Buildings

Project # BLD-18-003

Project Name Senior Center

Description

Proposed construction of a 10,000 SF senior center building within Ankeny. The proposed building would include facilities for serving senior citizens of the community. Anticipated uses include congregate meals by Polk County, meeting rooms and space for senior citizen programs and activities. The facility could provide an opportunity for rentals to the general public for events when typical senior activities aren't being held. Improvements include construction of the building, parking lot, entrance, sidewalks, landscaping, lighting and associated improvements. Land acquisition may be needed or park facilities (tennis courts, playground) may need to be mitigated depending on the site that is chosen for the facility.

Justification

There is a recognized need to serve the aging population of the City of Ankeny and surrounding areas of Polk County. Outside funding for this project is tentatively secured. Costs are conceptual at this time and formal agreements for the funding assistance will need to be negotiated and approved.

Expenditures	2019	2020	2021	2022	2023	Total
Architect	350,000	100,000				450,000
Construction Costs		4,350,000				4,350,000
Furniture, Fixtures & Equipment		300,000				300,000
Total	350,000	4,750,000				5,100,000

Funding Sources	2019	2020	2021	2022	2023	Total
Capital Reserve Fund	350,000	1,750,000				2,100,000
County Contributions		2,000,000				2,000,000
Private Contributions		1,000,000				1,000,000
Total	350,000	4,750,000				5,100,000

Budget Impact/Other

Operating impacts will be determined during preliminary design of the project. Anticipated operating costs include utilities, insurance, cleaning services, and maintenance/upkeep of the facility. Placeholder amounts are included at this time.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs			6,000	6,000	6,000	18,000
Utilities			12,000	12,000	12,000	36,000
Total			18,000	18,000	18,000	54,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Project # BLD-18-003

Project Name Senior Center



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Type Maintenance

Useful Life 40 years

Category Municipal Buildings

Project # BLD-18-004

Project Name HVAC Replacement-City Hall

Description

Replacement of the heating and cooling system within Ankeny City Hall as part of a refurbishing of the building. Other improvements to City Hall will include carpet replacement, painting of all interior walls, exterior grading to eliminate drainage problems along the north side of the building, and other updates. The council chambers will be vacated in the near future, with this space targeted for repurposing as additional office space. However, the remodeling of the chambers is not included in this project scope.

Justification

The Facilities Needs Study as completed by OPN Architects found that the 11,300 SF City Hall building is in generally fair to good condition, given its age. The building was constructed in 1975 and converted to City Hall in 1997. It was expanded in 2006. The current heat pump/cooling tower system is outdated, and is prone to recurring maintenance expenses. It does not adequately heat and cool the building in extreme weather months. There have been many repairs needed in recent history to keep the HVAC system operating.

Expenditures	2019	2020	2021	2022	2023	Total
Architect		25,000				25,000
Construction Costs		100,000				100,000
Other Costs		375,000				375,000
Total		500,000				500,000

Funding Sources	2019	2020	2021	2022	2023	Total
Capital Reserve Fund		500,000				500,000
Total		500,000				500,000

Budget Impact/Other

A new, efficient HVAC system can be expected to reduce the annual maintenance and utility costs when compared to the current outdated inefficient system. While there will be a net reduction in expenses to heat and cool City Hall, as well as a reduction in the recurring maintenance costs, the net costs are shown as zero to be conservative.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Project # BLD-18-004

Project Name HVAC Replacement-City Hall



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Administration
Contact Assistant City Manager
Type Improvement
Useful Life 20 years
Category Municipal Buildings

Project # BLD-19-001
Project Name Art Center Foundation Repairs

Description

Repairs to the lower level of the Art Center building to address the serious water infiltration issues. The scope of the project is indeterminate at this time but anticipated improvements include repairing or replacing the perimeter footing drain tile, sealing the basement wall(s), redirecting drainage pipes within the basement, reconstructing sump pits, repairing damaged electrical equipment, regrading the area to the north of the building, installing a new outlet storm line, and installing a storm lift station.

Justification

The building is owned by the City of Ankeny and the Art Center is anticipated to occupy the building for the foreseeable future. The basement level of the building has water ponding on the floor during medium and heavy rain events. An inspection of the existing sump/drainage system showed that the system is in disrepair and cannot be easily fixed. The Art Center holds regular classes in the basement and improvements are warranted due to health issues.

Expenditures	2019	2020	2021	2022	2023	Total
Consultant	20,000					20,000
Construction Costs		125,000				125,000
Total	20,000	125,000				145,000
Funding Sources	2019	2020	2021	2022	2023	Total
Capital Reserve Fund	20,000	125,000				145,000
Total	20,000	125,000				145,000

Budget Impact/Other

The proposed improvements should not change the amount of maintenance/upkeep that the building requires. A more efficient drainage system should reduce utility billing, but the quantity of reduction is not measurable or viewed as substantial.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Project # BLD-19-001

Project Name Art Center Foundation Repairs



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Bridge/Box Culvert

Project # BRG-14-002

Project Name NE Delaware Avenue Pedestrian Bridge and Sidewalk

Description

This project includes constructing a pre-engineered steel truss pedestrian bridge to span Four Mile Creek and an 8 ft wide sidewalk on the west side of NE Delaware Avenue with associated grading and culvert improvements. The project limits are from NE 18th Street north to approximately 150 feet north of NE 24th Court. The pedestrian bridge will be a free-standing structure located immediately west of the existing NE Delaware Avenue bridge over Four Mile Creek. This project also includes the acquisition of permanent and temporary easements on two parcels. The project will be constructed in two phases with Phase 1 being the pedestrian bridge in 2018 and Phase 2 being the 8 ft sidewalk connections in 2019.

Justification

The pedestrian bridge and 8-ft. sidewalk will connect the existing sidewalks north and south of Four Mile Creek. It will also provide students with walking access to Northeast Elementary School from the neighborhoods north of NE 18th Street. The improvements associated with this project were identified in the 2009 Safe Routes to School Study and further refined in the 2017 NE Delaware Avenue Trail Connection Study. A federal TAP grant in the amount \$150,000 is being used to help fund the Phase 1 project. The Phase 2 project will be funded locally.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Construction Services	20,000					20,000
Construction Costs	200,000					200,000
Total	220,000					220,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds	220,000					220,000
Total	220,000					220,000

Budget Impact/Other

In the long-term, the new pedestrian bridge and additional sidewalk will add annual maintenance costs for the City's Parks & Recreation and Public Works departments.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		250	250	250	250	1,000
Total		250	250	250	250	1,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

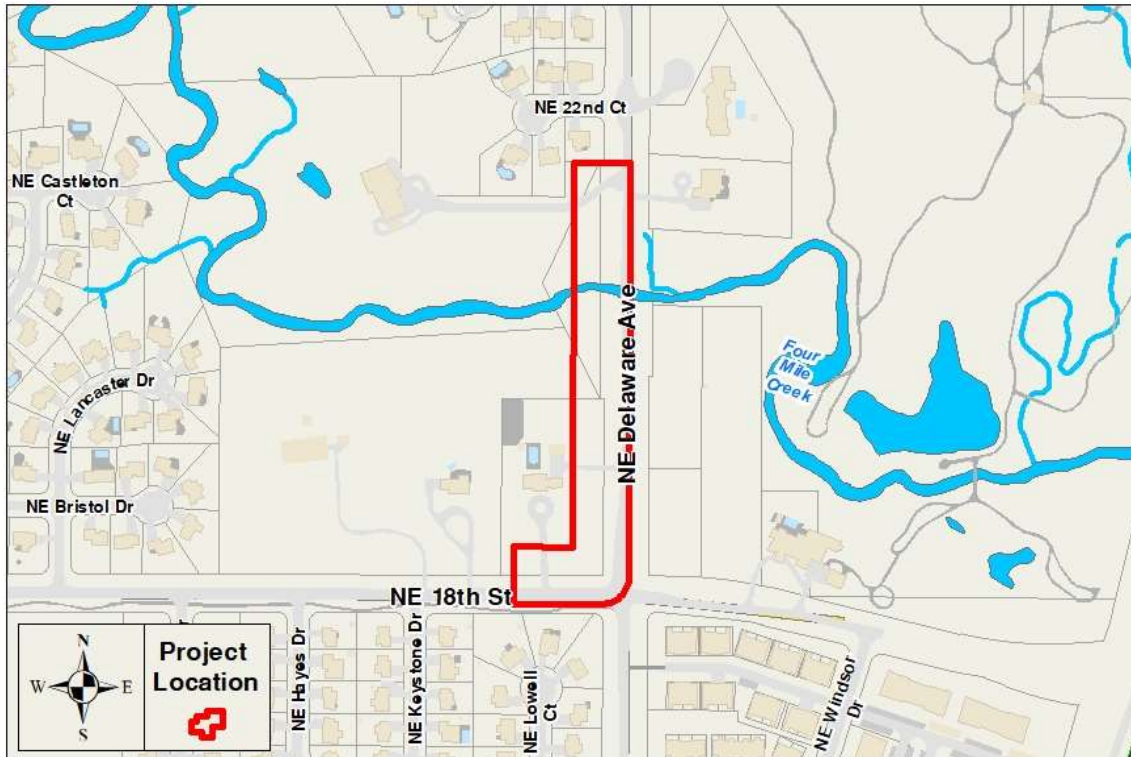
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # BRG-14-002

Project Name NE Delaware Avenue Pedestrian Bridge and Sidewalk



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Replacement

Useful Life 40 years

Category Bridge/Box Culvert

Project # BRG-15-001

Project Name NE 54th Street Bridge Replacement and Trail

Description

Replace existing bridge on NE 54th Street over the east branch of Four Mile Creek, approximately 400 feet west of NE Briarwood Drive. The new bridge will include sufficient width to allow for a 5-ft. sidewalk on the north side and 10-ft. sidewalk on the south side. The project will also include minor reconstruction of NE 54th Street between NE Hillcrest Drive and NE Briarwood Drive to accommodate the bridge replacement, along with new 8-ft. and 5-ft. sidewalk connections to the existing sidewalks along NE 54th Street. The proposed schedule is a January 2019 bid letting through the Iowa DOT and construction beginning in the spring of 2019.

Justification

The 2017 inspection report for this bridge gave it a low service rating (13 out of 100) and recommended replacing the bridge in approximately 2 years. In early 2017, the City Council approved the posting of a weight restriction on the existing bridge and an additional weight restriction was posted following the June 30, 2018, extreme flash flooding event. Also, a pedestrian crossing of the waterway is needed at this location to provide connectivity in the City's sidewalk/trail system and to provide better access to the various residential developments in this area of the City. The City has received \$1,000,000 in Highway Bridge Program (HBP) funding from the Iowa DOT and \$400,000 in Surface Transportation Block Grant (STBG) funding from the Des Moines Area MPO. The HBP and STBG funding will be used for the project's construction phase.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Construction Services	200,000					200,000
Construction Costs	1,350,000					1,350,000
Total	1,550,000					1,550,000
Funding Sources	2019	2020	2021	2022	2023	Total
FHWA/IDOT Grants	1,000,000					1,000,000
G.O. Bonds	150,000					150,000
MPO/STBG Grants	400,000					400,000
Total	1,550,000					1,550,000

Budget Impact/Other

The new bridge and added 8-ft. sidewalk will have a negligible impact on the City's maintenance costs. The bridge will be added to the Annual Bridge Inspection Program for monitoring purposes.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # BRG-15-001

Project Name NE 54th Street Bridge Replacement and Trail



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Bridge/Box Culvert

Project # BRG-17-001

Project Name NE Four Mile Drive RCB Culvert for Deer Creek

Description

New reinforced concrete box (RCB) culvert to accommodate future NE Four Mile Drive extension across Deer Creek. The preliminary culvert sizing is a twin, 12 feet (width) x 8 feet (height) x 184 feet (length). Stream mitigation will likely be required with the project.

Justification

The purpose of the project is to construct a new RCB culvert to convey flow from Deer Creek under the future NE Four Mile Drive extension to East 1st Street. The new RCB culvert will support development east of NE Four Mile Drive, between NE 18th Street and East 1st Street, and the NE Four Mile Drive extension will improve traffic mobility east of Interstate 35. Previously, the developer in the area had requested this RCB culvert project be designed in 2017 and constructed in 2018; however, the development has progressed slower than anticipated.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	40,000					40,000
Engineering-Construction Services		85,000				85,000
Construction Costs		850,000				850,000
Total	40,000	935,000				975,000
Funding Sources	2019	2020	2021	2022	2023	Total
Capital Project Fund	40,000	935,000				975,000
Total	40,000	935,000				975,000

Budget Impact/Other

The new RCB culvert will have a negligible impact on the City's maintenance costs. The RCB culvert will be added to the Annual Bridge Inspection Program for monitoring purposes.

City of Ankeny, Iowa

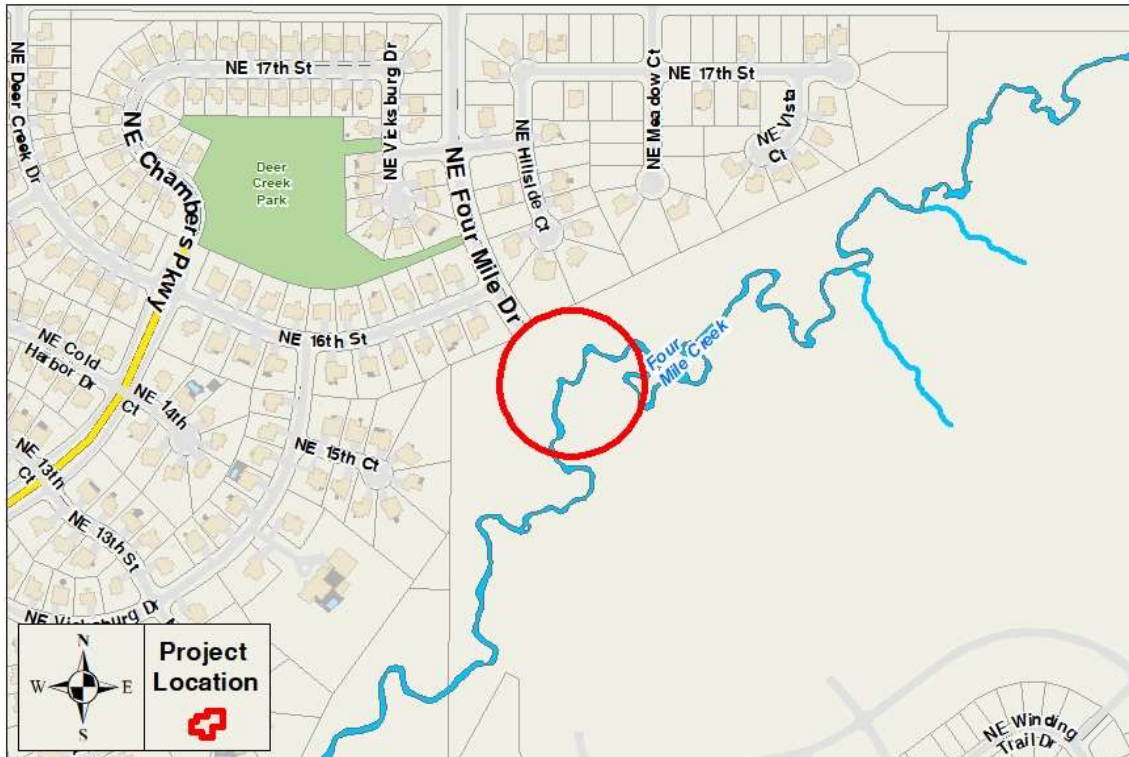
2019 *thru* 2023

Department Public Works

Contact City Engineer

Project # **BRG-17-001**

Project Name NE Four Mile Drive RCB Culvert for Deer Creek



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Corridor Development

Project # COR-16-004

Project Name SW Des Moines Street-Prairie Trail to Magazine

Description

This project includes the construction of SW Des Moines Street from the existing two intersections with SW Magazine Road to the existing intersection with SW Prairie Trail Parkway. This project also includes engineering design and construction services, associated paving and utility improvements, and constructing the water quality basins and wetlands within the SW Des Moines Street loop.

Justification

The justification for this project is to support the current and planned development in this portion of Prairie Trail. This project will improve the traffic flow in the area by connecting residential, commercial and institutional areas to the major collector streets. This project will also support the additional traffic in the area following the construction of the planned elementary school along SW Prairie Trail Parkway.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	260,000					260,000
Construction Costs	4,275,000					4,275,000
Street Lighting	195,000					195,000
Total	4,730,000					4,730,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds - TIF Abated	4,730,000					4,730,000
Total	4,730,000					4,730,000

Budget Impact/Other

The additional public street pavement and 8-ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, the additional pavement, City-owned street lights, sanitary sewer, storm sewer, and water main will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new street lights will result in additional electric power costs for the City.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		2,000	2,000	2,000	2,000	8,000
Utilities		4,000	4,000	4,000	4,000	16,000
Total		6,000	6,000	6,000	6,000	24,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # COR-16-004

Project Name SW Des Moines Street-Prairie Trail to Magazine



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Corridor Development

Project # COR-18-002

Project Name SW State Street Median Study

Description

Complete a concept study, develop concept alternative(s), and prepare a conceptual opinion of probable cost for potential modifications to the existing medians on SW State Street, between SW Prairie Trail Parkway and SW Vintage Parkway.

Justification

The purpose of the project is to determine whether traffic mobility can be improved on SW State Street, between SW Prairie Trail Parkway and SW Vintage Parkway, by making geometric modifications to the existing medians. The existing lane widths on SW State Street are narrower than the preferred width recommended by the Statewide Urban Design and Specifications (SUDAS) Design Manual for an arterial street carrying high traffic volumes. If the study shows geometric modifications to the medians would be beneficial, Public Works staff will consider programming the design and construction phases for future years.

Expenditures	2019	2020	2021	2022	2023	Total
Consultant	25,000					25,000
Total	25,000					25,000

Funding Sources	2019	2020	2021	2022	2023	Total
Road Use Tax Fund	25,000					25,000
Total	25,000					25,000

Budget Impact/Other

This project is a study and no construction is being programmed at this time, therefore no operating impact is expected.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # COR-18-002

Project Name SW State Street Median Study



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Corridor Development

Project # COR-19-001

Project Name SW Des Moines Street-Magazine to 11th

Description

This project includes the construction of SW Des Moines Street from the existing intersection with SW Magazine Road to a few existing and future intersections with SW 11th Street. This project also includes engineering design and construction services, associated paving and utility improvements, and constructing the water quality basins and wetlands within the SW Des Moines Street loop.

Justification

The justification for this project is to support the current and planned development in this portion of Prairie Trail. This project will improve the traffic flow in the area by connecting residential, commercial and institutional areas to the major collector streets. This project will also support the additional traffic in the area from the existing middle and high school buildings.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	500,000					500,000
Construction Costs	3,250,000					3,250,000
Street Lighting	150,000					150,000
Total	3,900,000					3,900,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds - TIF Abated	3,900,000					3,900,000
Total	3,900,000					3,900,000

Budget Impact/Other

The additional public street pavement and 8-ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, the additional pavement, City-owned street lights, sanitary sewer, storm sewer, and water main will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new street lights will result in additional electric power costs for the City.

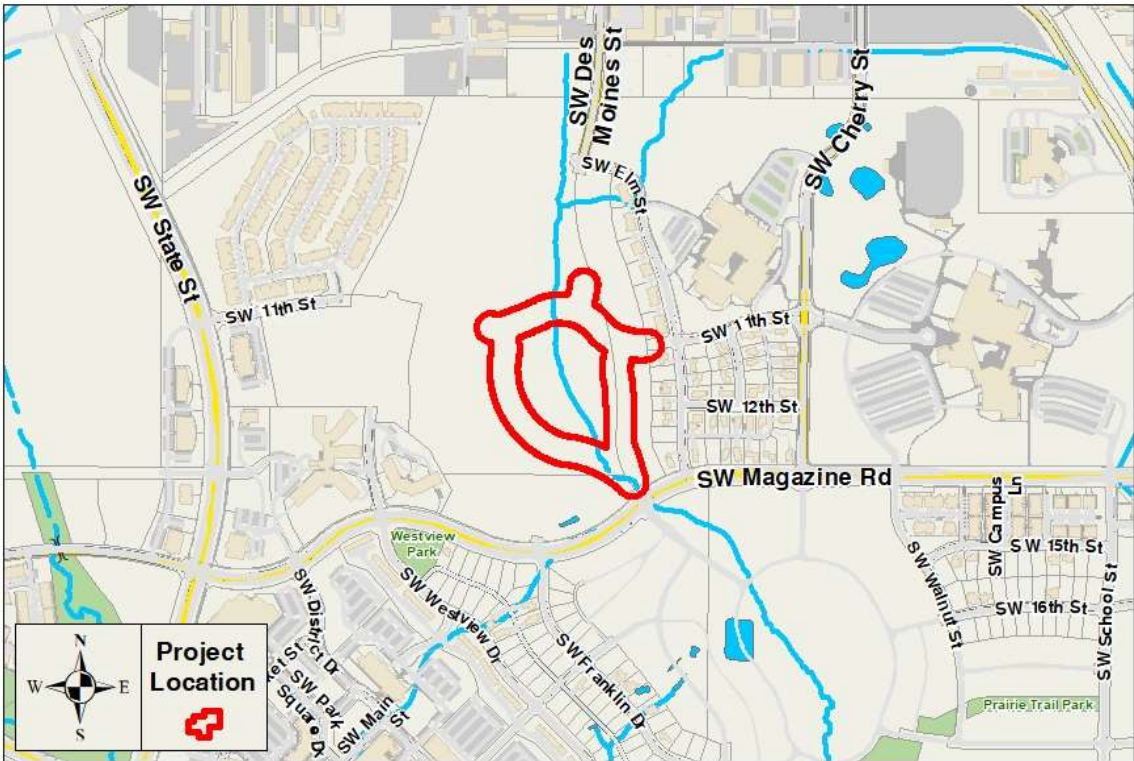
Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		1,500	1,500	1,500	1,500	6,000
Utilities		3,000	3,000	3,000	3,000	12,000
Total		4,500	4,500	4,500	4,500	18,000

2019 - 2023 Capital Improvement Program
City of Ankeny, Iowa

2019 thru 2023

Department Public Works
Contact City Engineer

Project #	COR-19-001
Project Name	SW Des Moines Street-Magazine to 11th



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-00-002

Project Name Annual Park Development Program

Type Improvement

Useful Life 20 years

Category Park Facilities

Description

The Annual Park Development Program consists of improvements to existing park facilities or construction of new parks. Improvements include such amenities as shelters, play structures, picnic amenities, landscaping, etc.

Justification

2018

- Hawkeye Park Pond Improvements
 - Dredging
 - Outlet Structure
 - Trail Realignment
 - Fishing Pier
- White Birch Park Shelter
- Otter Creek Park Swings

2020

- Otter Creek Park Ball Diamond Installation
- Georgetown Park Shelter
- Centennial Park Development Phase I: master plan, storm water drainage and turf improvements

2021

- Centennial Park Development Phase II: playground, parking lot, trail loop, shelter, etc.

2022-2023

- Other projects TBD based on park dedication, development funding and pace of development

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs	350,000	350,000	350,000	350,000	350,000	1,750,000
Total	350,000	350,000	350,000	350,000	350,000	1,750,000
Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds	300,000	300,000	300,000	300,000	300,000	1,500,000
Park Dedication Fund	50,000	50,000	50,000	50,000	50,000	250,000
Total	350,000	350,000	350,000	350,000	350,000	1,750,000

Budget Impact/Other

The renovations planned for the Hawkeye Fishing Pond will increase operating and maintenance costs by a negligible amount.

City of Ankeny, Iowa

2019 *thru* 2023

Department Parks and Recreation

Contact Parks and Recreation Director

Type New Construction

Useful Life 40 years

Category Park Facilities

Project # **PRK-13-001**

Project Name **Ankeny Market & Pavilion**

Description

The Ankeny Market & Pavilions project consists of the following amenities: Farmer's Market Pavilion, Trailhead, Restroom Facility, Trail, Plaza, and Gateway Entry Features. The Ankeny Market & Pavilion will serve as the home of the Ankeny Farmer's Market and the trailhead facility for the High Trestle Trail.

Justification

The \$2 million dollar project was funded primarily through private donations and grants. Remaining projects for the site include some turf restoration, additional seating and landscaping.

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs	50,000					50,000
Total	50,000					50,000

Funding Sources	2019	2020	2021	2022	2023	Total
Ankeny Community Foundation	50,000					50,000
Total	50,000					50,000

Budget Impact/Other

Operation and maintenance costs of the Ankeny Market & Pavilion site will average around \$8,000 annually.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs	6,500	6,500	6,500	6,500	6,500	32,500
Utilities	1,500	1,500	1,500	1,500	1,500	7,500
Total	8,000	8,000	8,000	8,000	8,000	40,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

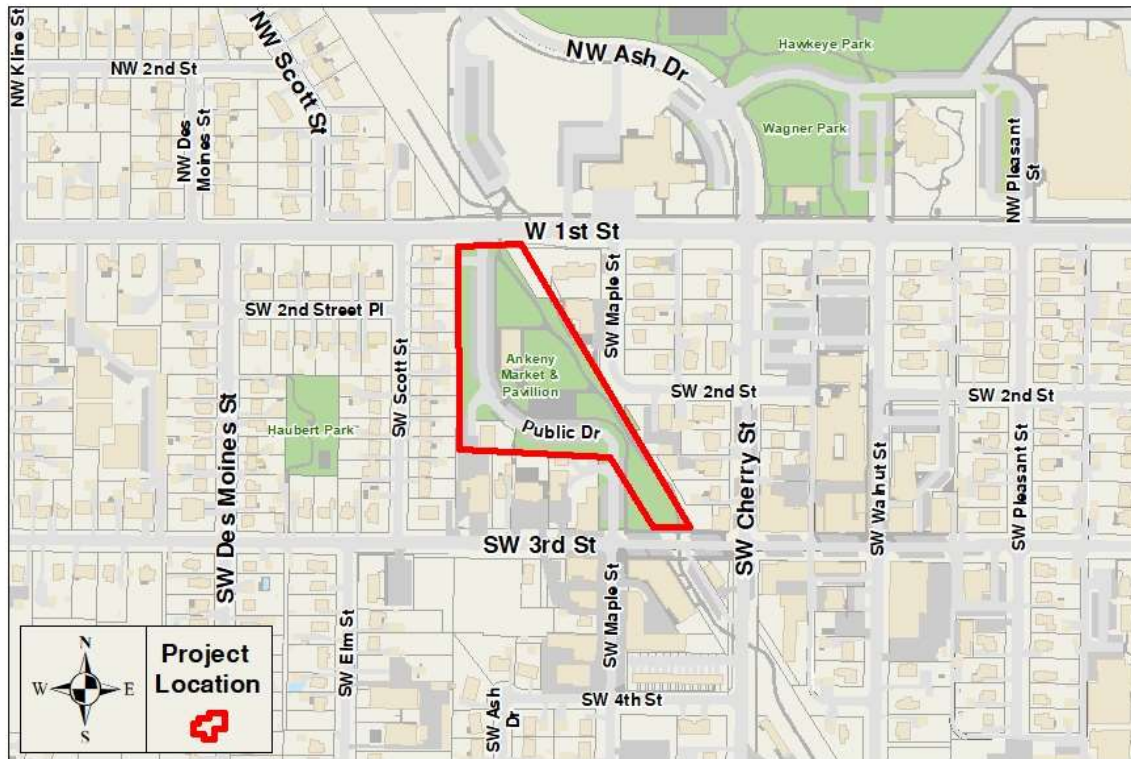
City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-13-001

Project Name Ankeny Market & Pavilion



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Parks and Recreation
Contact Parks and Recreation Director
Type Improvement
Useful Life 20 years
Category Park Facilities

Project # PRK-14-002
Project Name Prairie Ridge Sports Complex-Drainage Improvements

Description

Prairie Ridge Sports Complex Soccer Fields are in need of subsurface drainage and grading work. Platform drainage has been completed on fields #31, #34, & #36. Platform #32 is next in line for renovation and is currently in the poorest condition. This has been a phased approach with renovating and re-establishing safe and durable playing surfaces.

Justification

There are no subsurface drainage lines on field #32 at the Complex. While some surface drainage does exist, due to the level of play and duration of seasonal usage, subsurface tiling is needed so that the fields can drain optimally. Platform #32 is in need of re-crowning and subsurface drainage. This eliminates low spots, standing water and also gets water off the playing surface in a more expedited manner. With play increasing every year and the fields being used extensively March through mid-November, the work would be done after the fall soccer season and not utilized until the fall of 2021. Specific details regarding the temporary movement of games and practices would occur with the Iowa Rush Soccer Club as the platform would be unplayable for the better part of the spring season. Department Staff will be doing as much work internally as possible to help as a cost savings. This work will include earthwork, seeding and resetting of the irrigation heads, a total estimated savings of \$10,000 per field.

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs		80,000				80,000
Total		80,000				80,000
Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds		80,000				80,000
Total		80,000				80,000

Budget Impact/Other

The reconstruction of platform #32 will increase operating and maintenance costs by a negligible amount as this is a renovation project and the fields already exist and are currently being utilized.

City of Ankeny, Iowa

2019 *thru* 2023

Department Parks and Recreation

Contact Parks and Recreation Director

Project # **PRK-14-002**

Project Name **Prairie Ridge Sports Complex-Drainage Improvements**



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Type Improvement

Useful Life 20 years

Category Park Facilities

Project # PRK-17-001

Project Name Prairie Ridge Sports Complex-Tee Ball Field

Description

Add an additional tee ball field to the Prairie Ridge Sports Complex.

Justification

This improvement would add a fifth tee ball field to the Prairie Ridge Sports Complex and locate it near the intersection of NW Prairie Ridge Drive and NW State Street.

There are currently four tee ball fields at the Prairie Ridge Sports Complex. With the growth of the Ankeny Little League and an increase in younger participation numbers, an additional tee ball field at the complex would help alleviate some of the current congestion. Little League's season runs from mid-April through June. Currently, with the large number of participants in the lower levels (utilizing tee ball fields #12-15) Little League needs to schedule games on fields #1-4 (baseball fields) that typically would utilize a tee ball field with a skinned infield. Adding one more tee ball field means 15 pre-little league games a week that won't need to be scheduled on fields #1-4. Over a 9 week season that's 135 games that would save on the wear-and-tear of the turf infields and relocate the games adjacent to the other four tee ball fields at the complex.

Expenditures	2019	2020	2021	2022	2023	Total
Architect		18,000				18,000
Construction Costs		136,000				136,000
Total		154,000				154,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds		154,000				154,000
Total		154,000				154,000

Budget Impact/Other

The construction of an additional tee ball field will increase operating and maintenance costs by \$2,500 annually.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		2,500	2,500	2,500	2,500	10,000
Total		2,500	2,500	2,500	2,500	10,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

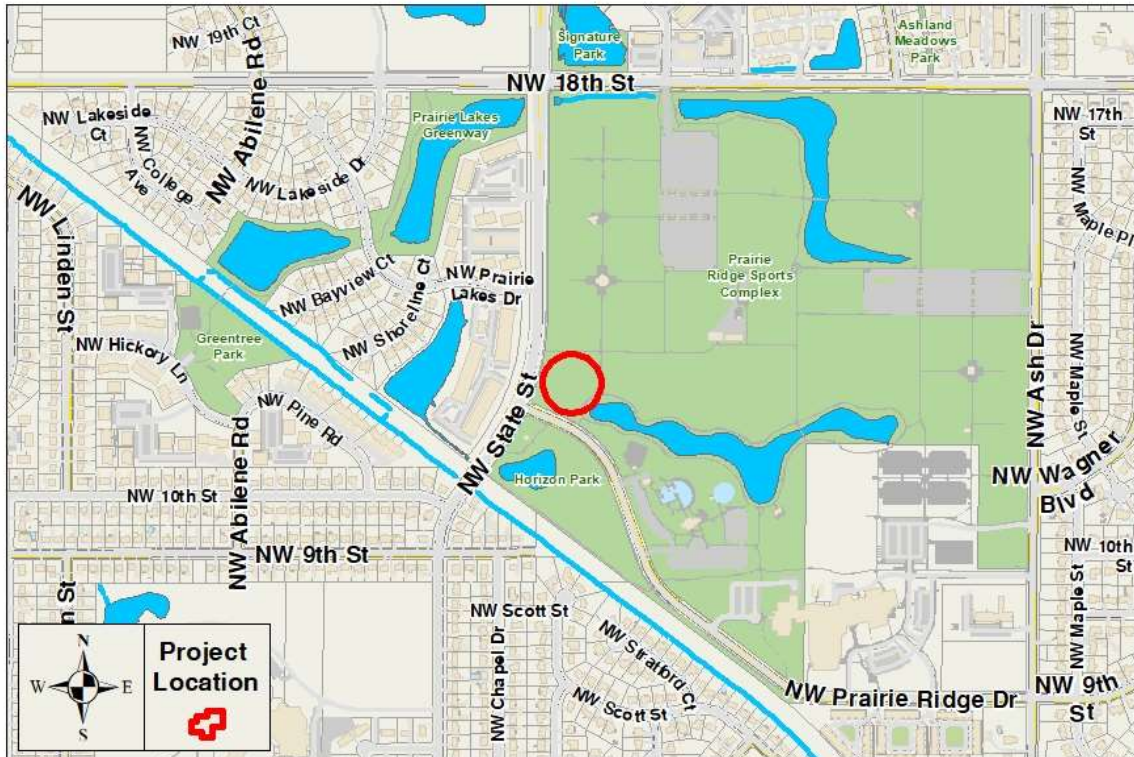
City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-17-001

Project Name Prairie Ridge Sports Complex-Tee Ball Field



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-17-003

Project Name Older Parks Renovation Plan

Type Improvement

Useful Life 20 years

Category Park Facilities

Description

As part of the 2016-17 Strategic Plan, Department Staff was tasked with taking an inventory and assessing current community parks that were deemed “older” and in need of potential improvements. Fourteen parks were evaluated and evaluation criteria was developed to help staff recommend and prioritize each park improvement. Some improvements are as simple as replacing benches and grills, to as extensive as parking lot overlays and replacement of basketball courts.

The Older Parks Condition and Renovation Plan was adopted by City Council in 2016.

The recommendations associated with each of the Park Assessments were prioritized to provide the basis of the Capital Improvements. These recommendations are based on the inventory and assessment of each park and facility, findings from the inspection process and on an understanding of the funding opportunities that may be appropriate for future projects.

Justification

2019 Renovation Projects Include: ☐

- Replace trail at Crestbruck Park - \$200,000

2020 Renovation Projects Include:

- Replace interior east trail at Village Park - \$65,000
- Resurface parking lot at Heritage Park - \$99,000
- Overlay parking lot at Sunset Park - \$15,000
- Sunset Park ball diamond renovations - \$25,000
- Sunrise Park ball diamond renovations - \$25,000

2021 Renovation Projects Include:

- Add pedestrian trail loop at Wildflower Park - \$60,000
- Add shelter at Wildflower Park - \$25,000

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs	200,000	229,000	85,000			514,000
Total	200,000	229,000	85,000			514,000
Funding Sources	2019	2020	2021	2022	2023	Total
General Fund	200,000	229,000	85,000			514,000
Total	200,000	229,000	85,000			514,000

Budget Impact/Other

The planned 2019 replacement of Crestbruck Park’s trail will not increase operating and maintenance costs because it is replacing the current trail.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

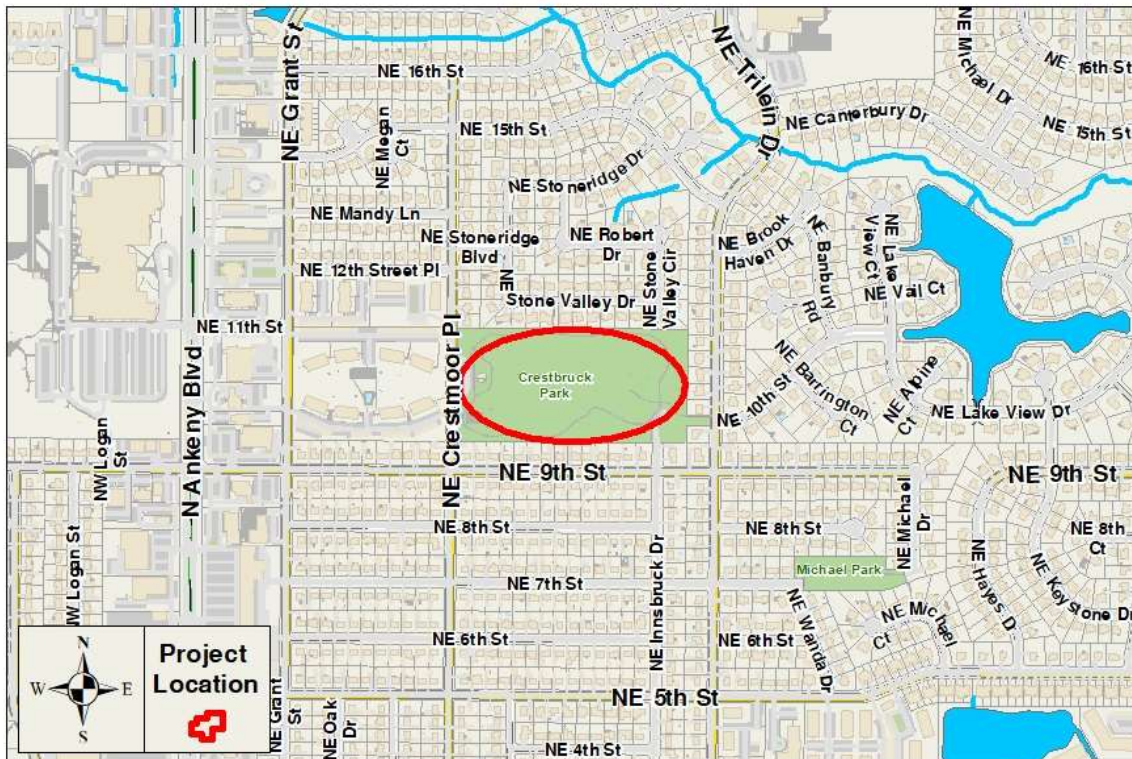
City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-17-003

Project Name Older Parks Renovation Plan



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Parks and Recreation
Contact Parks and Recreation Director
Type New Construction
Useful Life 40 years
Category Park Facilities

Project # PRK-18-001
Project Name High Trestle Trail Trailhead and Parking Lot

Description

The High Trestle Trail trailhead and parking lot is to be constructed on the south side of the High Trestle Trail just east of NW Irvinedale Drive. Improvements include a 20-stall lot, driveway, connection to the trail, and associated improvements.

Justification

This project is part of the required 6(f) conversion process to replace current parkland that was repurposed near the Otter Creek Golf Course for the construction of Fire Station No. 3. An additional access point for the High Trestle Trail will be a great amenity for the northwest part of Ankeny and will provide opportunities for physical fitness and help drive bike tourism. The parking lot, bike repair station, hydration station and trail access will be located at 2055 NW Irvinedale Drive, adjacent to the future NW Booster Station. The parking lot and trail access will provide neighboring residents and trail users a much needed feature in the NW part of Ankeny. This project will fulfill the 6(f) conversion requirements approved by the Iowa DNR Budget & Finance Bureau.

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs		130,000				130,000
Total		130,000				130,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds		130,000				130,000
Total		130,000				130,000

Budget Impact/Other

The trailhead/parking lot construction will increase operating and maintenance costs by a negligible amount. Maintenance hours have been included for the cleaning/clearing of the parking lot and the minimal mowing that will occur.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		1,500	1,500	1,500	1,500	6,000
Total		1,500	1,500	1,500	1,500	6,000

2019 - 2023 Capital Improvement Program

City of Ankeny, Iowa

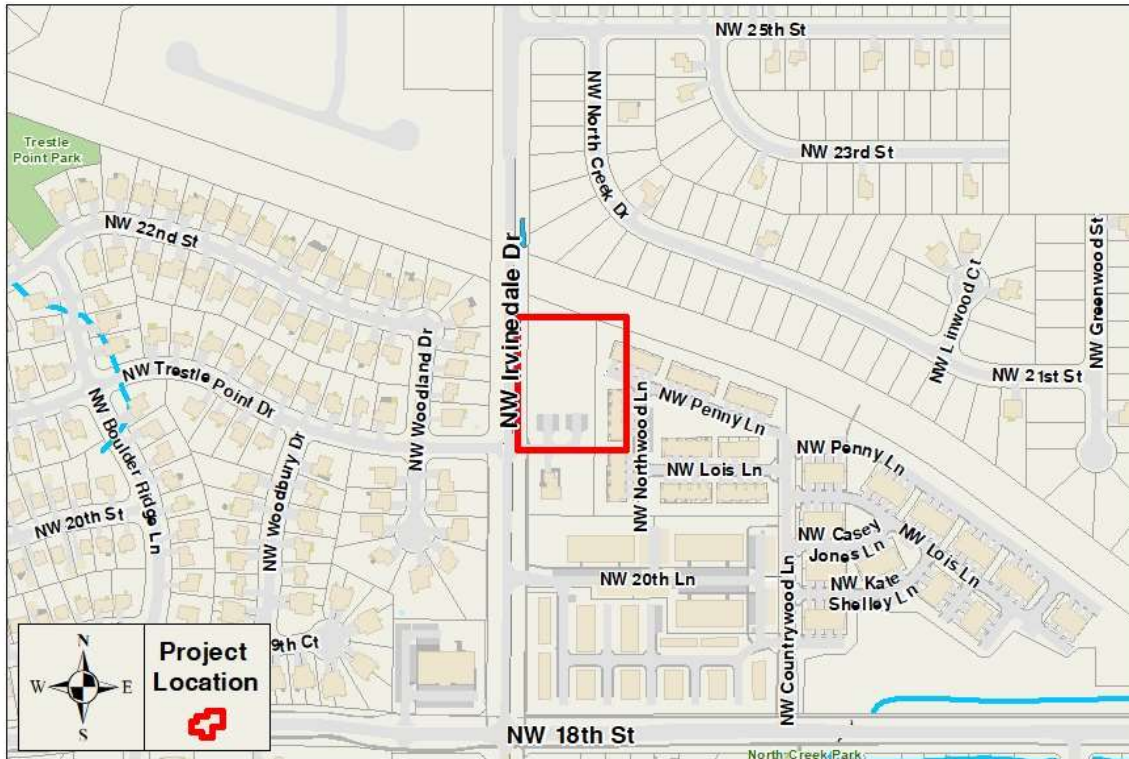
2019 *thru* 2023

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-18-001

Project Name High Trestle Trail Trailhead and Parking Lot



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Type Replacement

Useful Life 40 years

Category Park Facilities

Project # PRK-18-003

Project Name Hawkeye Park Tennis Courts Replacement

Description

The City is currently undertaking a site study by Shive-Hattery to determine the most feasible location for a new senior center for Ankeny. One of the four sites being contemplated for the center is within Hawkeye Park. Preliminary indications show that a new center within the park would require the removal of the existing six tennis courts. This request includes the construction of six new tennis courts that would replace the six existing courts within Hawkeye Park. Improvements include grading, drainage work, specialty court surfacing, nets, fencing, lighting, and associated improvements. A location for the six new courts has yet to be determined, pending verification of the need to relocate the courts.

Justification

Our tennis courts are utilized heavily by the school district for team play and practice as well as by the public for recreation. The six courts in Hawkeye Park are used regularly for practices by the district and by residents. If these courts were to be eliminated by the proposed building construction, replacement courts would be needed to maintain the level of service for the tennis playing community.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design		75,000				75,000
Construction Costs		550,000				550,000
Street Lighting		135,000				135,000
Total		760,000				760,000

Funding Sources	2019	2020	2021	2022	2023	Total
Capital Reserve Fund		760,000				760,000
Total		760,000				760,000

Budget Impact/Other

Since this project would replace the six existing courts, there would only be a minimal change in operating expenses. The expenses are expected to be reduced over the current expenses due to the new condition of the courts. Assume zero impact.

2019 - 2023 Capital Improvement Program

City of Ankeny, Iowa

2019 *thru* 2023

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-18-003

Project Name Hawkeye Park Tennis Courts Replacement



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Parks and Recreation
Contact Parks and Recreation Director
Type New Construction
Useful Life 40 years
Category Park Facilities

Project #	PRK-19-001
Project Name	Des Moines Street Corridor Parks Master Plan

Description
Des Moines Street Corridor Parks Master Planning

Justification
Scope includes all tasks to prepare the Parks Master Plan for 29 park acres through the Des Moines Street corridor, located in Prairie Trail. Public Works and DRA Properties are in the final stages of designing and constructing street segments on the east side of the Prairie Trail Development. Within the designated area there are approximately 29 acres of future parkland that will be impacted with the street projects. Staff believes that coordinating and designing the projects concurrently are critical to ensuring that the future greenways represent the community’s vision, are environmentally sound and create outstanding recreation opportunities. This project may qualify for the Civic Trust Fund.

Expenditures	2019	2020	2021	2022	2023	Total
Architect	40,000					40,000
Total	40,000					40,000

Funding Sources	2019	2020	2021	2022	2023	Total
Civic Trust Fund	40,000					40,000
Total	40,000					40,000

Budget Impact/Other
None

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-19-001

Project Name Des Moines Street Corridor Parks Master Plan



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Sidewalks/Trails

Project # SDW-00-001

Project Name Annual Sidewalk/Trail Construction Program

Description

This program includes constructing pedestrian improvements adjacent to City streets:

- Development sidewalk oversizing, 2019 to 2023 - \$100,000/year (previous development agreements)
- Sidewalk and pedestrian ramp gaps along City property & major streets, 2019 to 2023 - \$20,000/year (design), \$125,000/year (construction)
- ADA Compliance Program, 2019 to 2023 - \$125,000/year (construction)
- SE Magazine Road 8-ft. sidewalk upgrade – Phase 3 (Trilein Drive to Delaware Avenue), 2019 - \$240,000 (construction)
- SE Delaware Avenue Sidewalk Connection (along Miller & Mill Pond properties), 2019 - \$60,000 (design and right-of-way); 2020 - \$135,000 (construction), \$15,000 (inspection)

Justification

The purpose of this program is to bring existing pedestrian ramps into ADA compliance and provide new sections of recreational trails and sidewalks adjacent to the City's arterial and collector streets in order to promote non-motorized travel and a corresponding healthier lifestyle in Ankeny. These projects are often completed in conjunction with the Parks & Recreation Department to maximize the connectivity of the overall trail system. The SE Delaware Avenue sidewalk connection and sidewalk and pedestrian ramp gaps along City property are proposed to be designed by a consultant due to engineering staff workload.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	45,000	35,000	20,000	20,000	20,000	140,000
Construction Costs	520,000	415,000	380,000	380,000	380,000	2,075,000
Land/ROW Acquisition	35,000					35,000
Total	600,000	450,000	400,000	400,000	400,000	2,250,000

Funding Sources	2019	2020	2021	2022	2023	Total
Capital Project Fund	300,000					300,000
G.O. Bonds		325,000	275,000	275,000	275,000	1,150,000
Road Use Tax Fund	300,000	125,000	125,000	125,000	125,000	800,000
Total	600,000	450,000	400,000	400,000	400,000	2,250,000

Budget Impact/Other

Upgrading existing pedestrian ramps and bringing them into ADA compliance may reduce the number of complaints City staff follow up with regarding noncompliant or hazardous ramps. The additional 8-ft. sidewalks will increase maintenance costs for the City due to the additional winter maintenance that will be required. However, having a more connected 8-ft. sidewalk system should make winter maintenance operations more efficient.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs	700	1,400	2,100	2,800	3,500	10,500
Total	700	1,400	2,100	2,800	3,500	10,500

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Sidewalks/Trails

Project # SDW-16-001

Project Name High Trestle Trail Extension-Ordnance to Oralabor

Description

The construction of 1.65 miles of 10' PCC recreation trail along the High Trestle Trail corridor from the trail's current terminus at SW Ordnance Road, ultimately connecting directly to the Oralabor Gateway Trail/Gay Lea Wilson Trail located just south of SE Oralabor Road.

Justification

The extension of the trail is proposed in two phases. The first phase is to extend the trail from its current terminus at Ordnance Road southeast to Magazine Road where it will connect to 8' community trail. This segment would include a grade separated crossing (specifically a tunnel) where the trail ROW intersects Highway 69. Staff has reviewed the project with the Iowa DOT for cost sharing opportunities, and the Iowa DOT will provide \$300,000 in funding. Phase II will consist of the trail's extension from SE Magazine Road to a direct connection with the Gay Lea Wilson Trail located on the south side of SE Oralabor Road/IA Highway 160. Phase II will include a grade separated crossing (specifically an overpass) to navigate trail users over the high traffic volumes experienced on SE Oralabor/IA Highway 160. Staff will be working with the Iowa DOT and Des Moines Area MPO to obtain as much external funding as possible for Phase II. Currently \$700,000 has been secured in external funding for Phase II through the Des Moines Area MPO Transportation Alternatives Program.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design		120,000				120,000
Engineering-Construction Services	110,000		100,000			210,000
Construction Costs	1,400,000		1,200,000			2,600,000
Land/ROW Acquisition	30,000					30,000
Total	1,540,000	120,000	1,300,000			2,960,000

Funding Sources	2019	2020	2021	2022	2023	Total
FHWA/IDOT Grants	300,000		200,000			500,000
G.O. Bonds	1,040,000	120,000	400,000			1,560,000
IDNR/REAP Grants	200,000					200,000
MPO/STBG Grants			700,000			700,000
Total	1,540,000	120,000	1,300,000			2,960,000

Budget Impact/Other

The addition of the trail extension will increase operating and maintenance costs by \$1,650 annually.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		650	650	1,650	1,650	4,600
Total		650	650	1,650	1,650	4,600

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

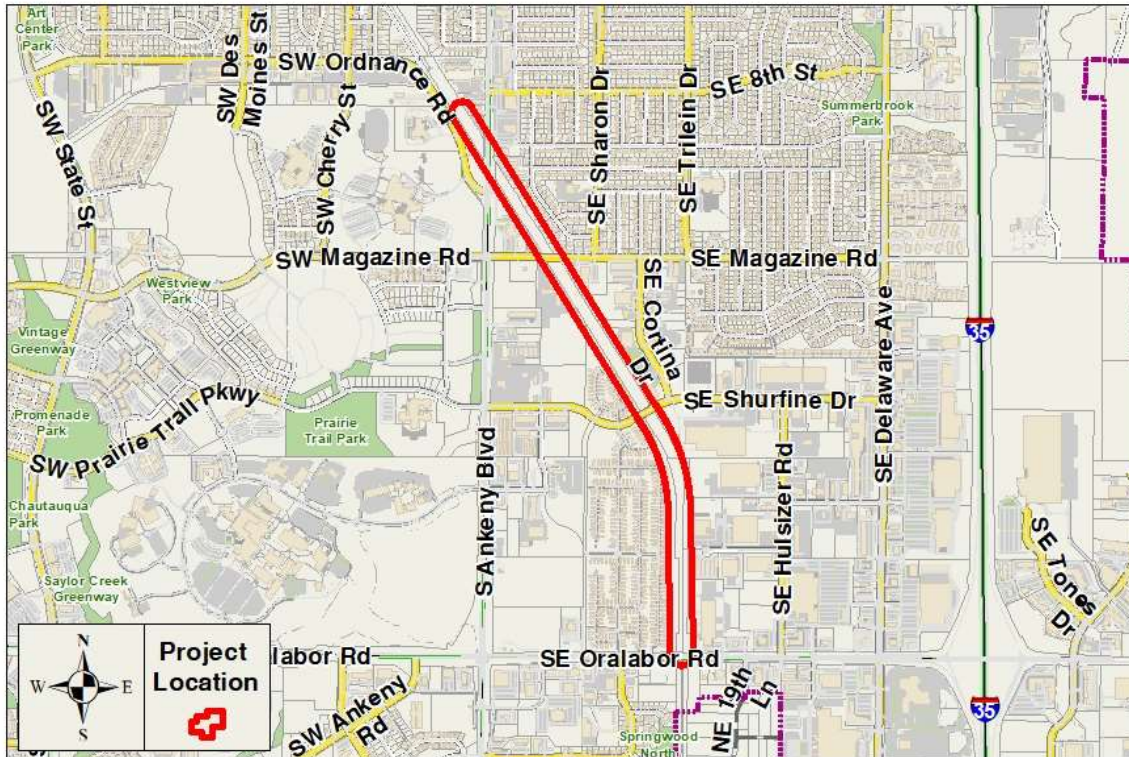
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # SDW-16-001

Project Name High Trestle Trail Extension-Ordnance to Oralabor



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works
Contact Assistant City Manager
Type New Construction
Useful Life 40 years
Category Sidewalks/Trails

Project # SDW-19-001
Project Name Oralabor Gateway Trail-SW State Street Overpass

Description

Construction of an elevated overpass structure to provide a separated-grade crossing for the Oralabor Gateway Trail at the intersection of SW State Street and SW Oralabor Road. The overpass will span the south leg of the intersection. Partial funding for the project is anticipated from the federal TAP program, but funding has not been secured at this time.

Justification

The Oralabor Gateway Trail is a regional trail connection between the Neal Smith Trail system (to the west) and the Gay Lea Wilson Trail system (to the east). The trail is a 10' wide PCC trail that runs along the south side of SE/SW Oralabor Road across the south side of Ankeny. This trail is very popular with recreational users and commuters. The current at-grade crossing of SW State Street is overly wide due to the rural environment and granular shoulders on SW State Street. This street approach and the intersection as a whole carries extremely large traffic volumes. This includes a high number of right-turning vehicles. This results in an at-grade trail crossing that is difficult to maneuver and has a high chance of accidents between vehicles and pedestrians. The overpass at this location would eliminate this situation.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design				160,000		160,000
Engineering-Construction Services					140,000	140,000
Construction Costs					1,250,000	1,250,000
Land/ROW Acquisition				50,000		50,000
Total				210,000	1,390,000	1,600,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds				210,000	940,000	1,150,000
MPO/STBG Grants					450,000	450,000
Total				210,000	1,390,000	1,600,000

Budget Impact/Other

After completion, the new concrete overpass structure should not need to be lit, but will require a minor amount of maintenance each year.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs					500	500
Total					500	500

City of Ankeny, Iowa

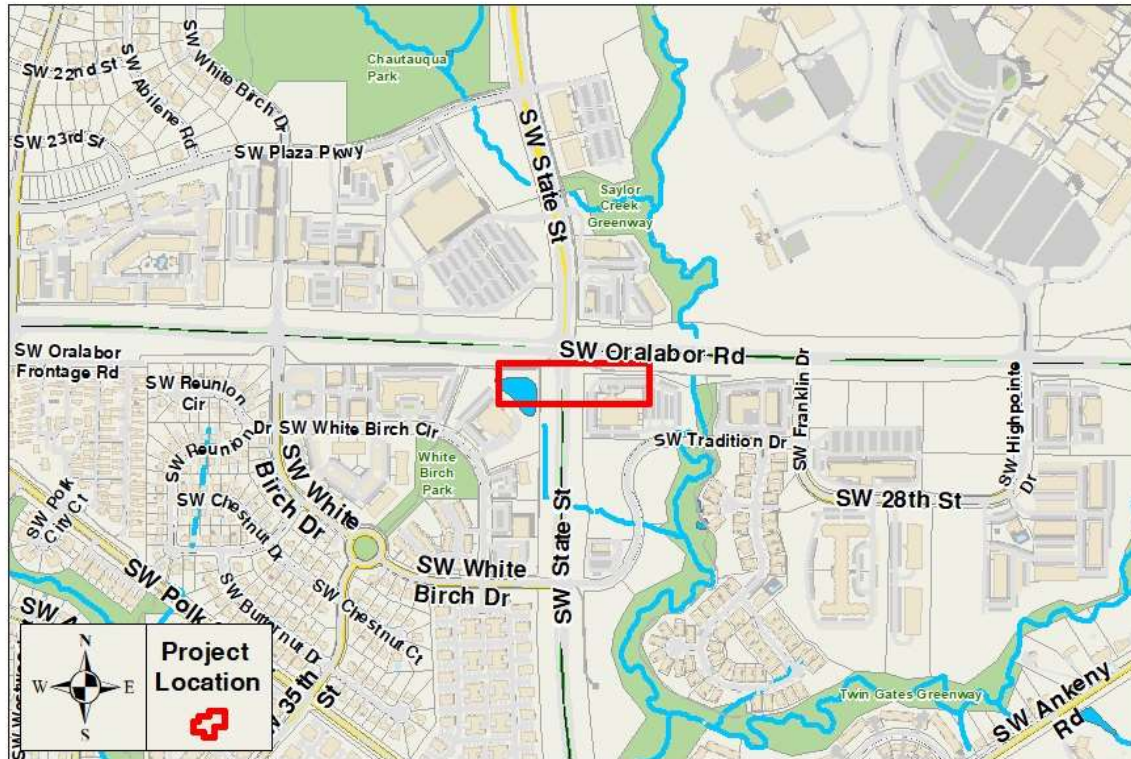
2019 *thru* 2023

Department Public Works

Contact Assistant City Manager

Project # **SDW-19-001**

Project Name **Oralabor Gateway Trail-SW State Street Overpass**



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Type Improvement

Useful Life 40 years

Category Sanitary Sewers

Project # SNS-00-001

Project Name Annual Sanitary Sewer Replacement Program

Description

Annual allocation of capital improvement funds for repair and replacement of sanitary sewers and structures. Specific projects for 2019 to 2023 include:

- ☐ CIPP sanitary sewer lining: \$500,000 in 2019 and \$250,000/year thereafter
- ☐ Manhole major adjustments/repairs: 2019 to 2023 - \$25,000/year
- ☐ Sanitary sewer spot repairs: 2019 to 2023 - \$50,000/year
- ☐ Development sanitary sewer oversizing: 2019 - 2023 - \$30,000/year
- ☐ 1/3 SE Eastlawn Area Utility Improvements (2 phases): 2019 – \$42,000 (engineering) \$360,000 (construction); 2020 – \$14,000 (engineering) \$360,000 (construction)
- ☐ 1/3 NW Northlawn Area Utility Improvements (4 phases): 2019 - \$25,000 (survey and drainage analysis); 2020 - \$50,000 (engineering); 2021 - \$60,000 (engineering) \$460,000 (construction); 2022 - \$55,000 (engineering) \$450,000 (construction); 2023 - \$50,000 (engineering) \$380,000 (construction); 2024 - \$20,000 (engineering) \$370,000 (construction)

Justification

The City's sanitary sewer system is routinely inspected and monitored by Municipal Utilities staff in order to assess the condition of the infrastructure and identify any portions that may need to be repaired or replaced. Municipal Utilities staff has determined the projects in this program by visual inspection of the sanitary sewer system, including manholes and pipes and from investigations following resident complaints. The projects in this program are justified by the need to maintain a functional sanitary sewer system, reduce Inflow and Infiltration (I&I), reduce long-term maintenance issues and address resident complaints. This is a significant increase in the request for Cured in Place Pipe (CIPP) sanitary sewer lining annually as we have approximately 230,000 LF of vitrified clay pipe (VCP) within our system and even at the newly requested rate it will take 20 years to get all of our VCP lined to prolong the useful life of these sanitary sewer mains versus the 50 years it will take at our current rate to complete the same project. CIPP lining reduces approximately 20% of the I&I in the line segment it is installed in and it also prevents root intrusion within City mains, which is a major contributor to sewer backups and service calls. This CIPP lining however, does not prevent I&I or root issues within private lines or services.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	67,000	64,000	60,000	55,000	50,000	296,000
Construction Costs	965,000	715,000	815,000	805,000	735,000	4,035,000
Total	1,032,000	779,000	875,000	860,000	785,000	4,331,000

Funding Sources	2019	2020	2021	2022	2023	Total
Capital Project Fund	532,000	279,000	375,000	360,000	285,000	1,831,000
Sewer Fund	500,000	500,000	500,000	500,000	500,000	2,500,000
Total	1,032,000	779,000	875,000	860,000	785,000	4,331,000

Budget Impact/Other

The operating impact for this project will provide a cost savings due to the replacement of old and deteriorating sanitary sewer with new PVC mains, relined mains and repaired broken pipes. This will reduce the I&I and lower our WRA flow. These areas will be placed on our routine pipe cleaning and inspection programs at the end of the maintenance bond, reducing our maintenance cost for that period. The number of Sanitary Sewer Overflows (SSO) and basement back-ups that Municipal Utilities staff will have to respond to should be reduced in the near term, with the upgraded infrastructure.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs	23,000	23,500	24,000	245,000	25,000	340,500
Utilities	200	200	200	200	200	1,000
Total	23,200	23,700	24,200	245,200	25,200	341,500

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Sanitary Sewers

Project # SNS-11-001
Project Name Otter Creek Trunk Sewer-Phase 3

Description

Install approximately 2,700 LF of 24" diameter and 2,500 LF of 18" diameter trunk sewer from the end of the existing Otter Creek Truck Sewer – Phase 2 on the east side of Interstate 35, extended east to NE Four Mile Drive and south along NE Four Mile Drive to NE 36th Street.

Justification

The Otter Creek Trunk Sewer – Phase 3 initially started at the interstate and extended north to NE 54th Street. The revised project scope goes south instead of north to provide sewer service to land near NE 36th Street, as that area may experience development pressures first.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design			95,000			95,000
Engineering-Construction Services				95,000		95,000
Construction Costs				1,380,000		1,380,000
Land/ROW Acquisition			180,000			180,000
Total			275,000	1,475,000		1,750,000

Funding Sources	2019	2020	2021	2022	2023	Total
Sewer Fund			275,000	1,475,000		1,750,000
Total			275,000	1,475,000		1,750,000

Budget Impact/Other

Since this is new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However being large diameter trunk sewer, this would have a lower frequency of maintenance and it would likely be hired out as we do not have equipment to televise this size of active sewer. There will be staff time to review the initial construction inspection report and field inspections during construction for a total of approximately 80 hours. There will also be 50 hours to review the construction plans and field questions during the design phase.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs			3,800	4,800		8,600
Total			3,800	4,800		8,600

2019 - 2023 Capital Improvement Program

City of Ankeny, Iowa

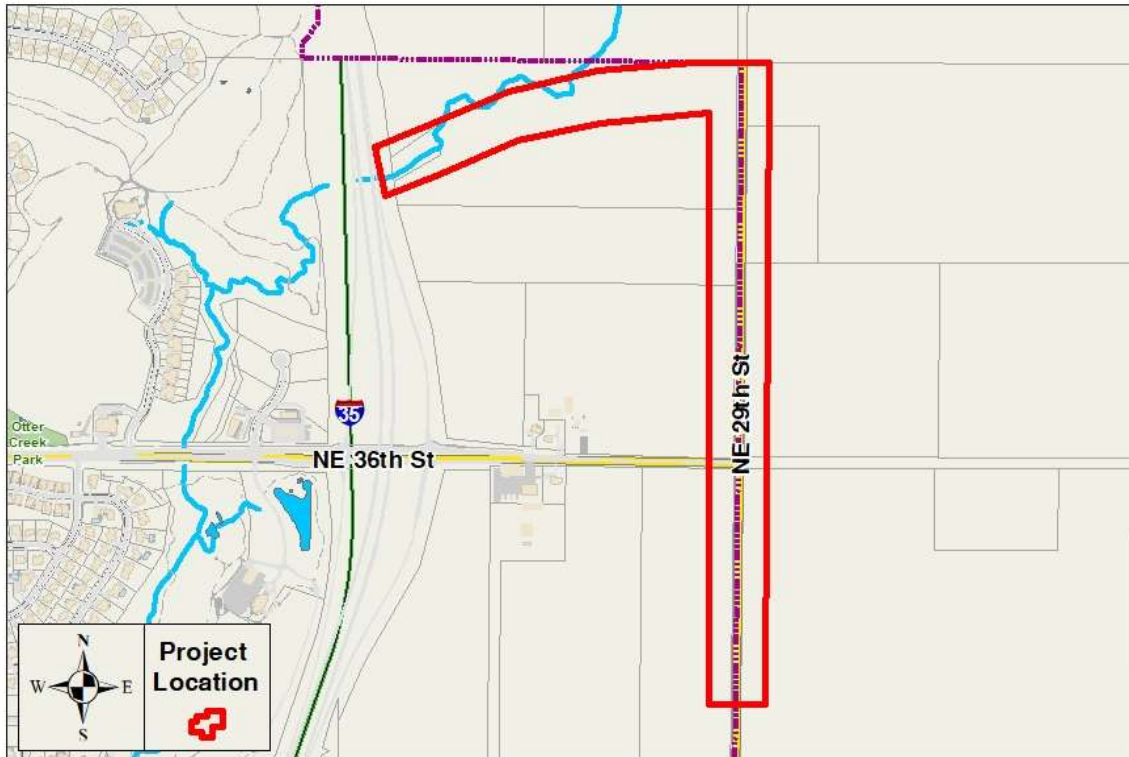
2019 *thru* 2023

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-11-001

Project Name Otter Creek Trunk Sewer-Phase 3



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Sanitary Sewers

Project # SNS-12-001
Project Name Otter Creek Trunk Sewer-Phase 4

Description

Install approximately 3,300 LF of 24" diameter sanitary trunk sewer from the north end of Otter Creek Trunk Sewer – Phase 3 north to NE 54th Street along NE Four Mile Drive.

Justification

The previous Phase 4 project extended from NE 54th Street to NE 126th Avenue. The revised Phase 4 project is south of NE 54th Street. The timing of this project will depend upon development in the area of the NE 36th Street interchange.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design				55,000		55,000
Engineering-Construction Services					55,000	55,000
Construction Costs					790,000	790,000
Land/ROW Acquisition				100,000		100,000
Total				155,000	845,000	1,000,000
Funding Sources	2019	2020	2021	2022	2023	Total
Sewer Fund				155,000	845,000	1,000,000
Total				155,000	845,000	1,000,000

Budget Impact/Other

Since this is new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However being large diameter trunk sewer, this would have a lower frequency of maintenance and it would likely be hired out as we do not have equipment to televise this size of active sewer. There will be staff time to review the initial construction inspection report and field inspections during construction for a total of approximately 60 hours. There will also be 40 hours to review the construction plans and field questions during the design phase.

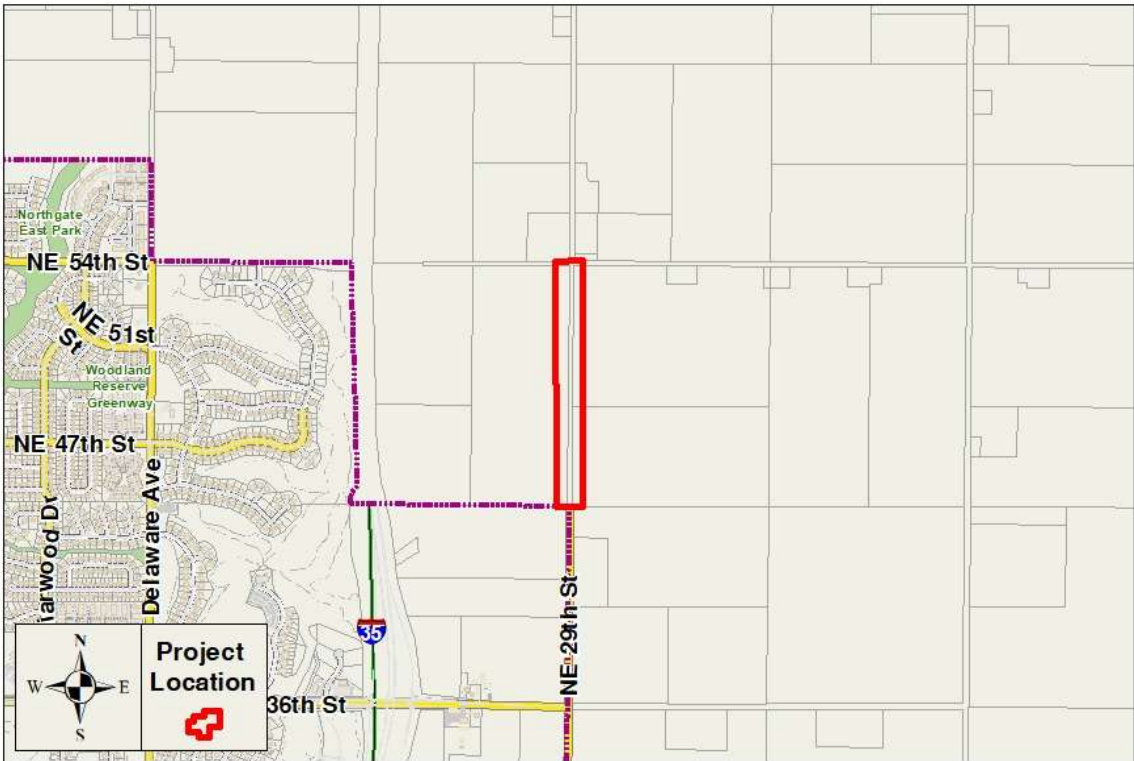
Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs				3,000	4,000	7,000
Total				3,000	4,000	7,000

2019 - 2023 Capital Improvement Program
City of Ankeny, Iowa

2019 *thru* 2023

Department Sewer Utility
Contact Municipal Utilities Director

Project #	SNS-12-001
Project Name	Otter Creek Trunk Sewer-Phase 4



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Sanitary Sewers

Project # SNS-17-001
Project Name Deer Creek Trunk Sewer

Description

Install approximately 3,600 LF of 30" trunk sanitary sewer from the end of Deer Creek Trunk Sanitary Sewer – Phase 4, which was previously installed by the developer, on the south side of Deer Creek extended northeast to the south side of NE 18th Street/NE 102nd Avenue (County).

Justification

The purpose of this project is to extend sanitary sewer service from the current Deer Creek Estates development north and east in order to serve properties north of NE 18th Street and east of NE Four Mile Drive. This trunk sanitary sewer extension is necessary to install sewer in advance of adjacent land development, the NE Four Mile Drive box culvert, and the future connection of NE Four Mile Drive across Deer Creek. The easements/land cost could be significantly less than what is shown, pending negotiations with the adjacent property owner (Deer Creek LLC).

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	190,000					190,000
Construction Costs	2,095,000					2,095,000
Land/ROW Acquisition	140,000					140,000
Total	2,425,000					2,425,000

Funding Sources	2019	2020	2021	2022	2023	Total
Capital Project Fund	1,475,000					1,475,000
Sewer Fund	950,000					950,000
Total	2,425,000					2,425,000

Budget Impact/Other

Since this is new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However being large diameter trunk sewer, this would have a lower frequency of maintenance and it would likely be hired out as we do not have equipment to televise this size of active sewer. There will be staff time to review the initial construction inspection report and field inspections during construction for a total of approximately 120 hours. There will also be 40 hours to review the construction plans and field questions during the design phase.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs	13,000					13,000
Total	13,000					13,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

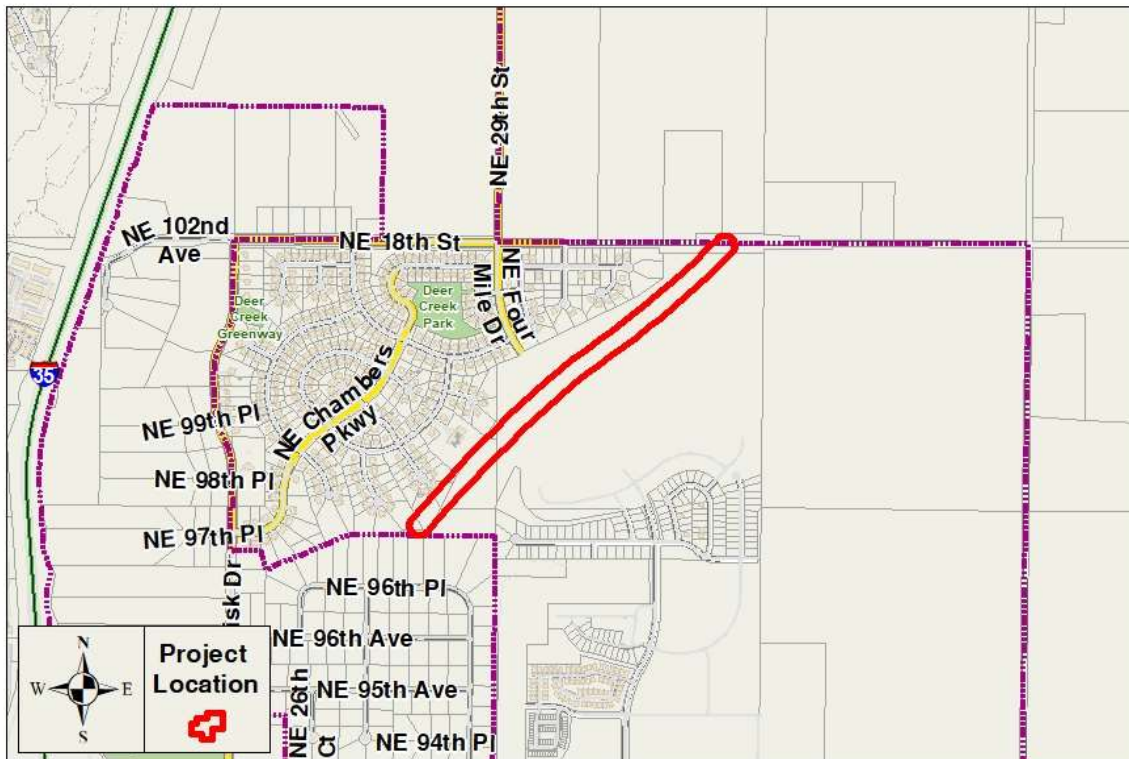
City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-17-001

Project Name Deer Creek Trunk Sewer



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type Improvement
Useful Life 40 years
Category Sanitary Sewers

Project #	SNS-19-001
Project Name	NW Elm Lane Pipe Replacement

Description
Replacement/upsizing of an existing 8" diameter sanitary sewer to a 10" diameter pipe, located at the intersection of NW Elm Lane and NW 18th Street.

Justification
The purpose of this project is to eliminate a bottleneck and sag within the sanitary sewer system which has been problematic in the past. This project will help eliminate potential basement backups, and surcharging of the upstream public system. The overall length of this pipe run is 500 LF. Since most of the pipe would have to be exposed to fix the existing sag, it was determined that replacing the entire pipe with a 10" diameter pipe would be most feasible.

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs		75,000				75,000
Total		75,000				75,000
Funding Sources	2019	2020	2021	2022	2023	Total
Sewer Fund		75,000				75,000
Total		75,000				75,000

Budget Impact/Other
This segment of sanitary sewer has a history of problems, which has caused Sanitary Sewer Overflows (SSO's) in 2006 and 2018 which caused damage to seven homes. This line will be on the "hot list" requiring cleaning twice per year until it is repaired. Cleaning and maintenance presents a challenge due to the depth (26'-40'). Additionally, the manhole access location in the middle of NE 18th Street creates an unsafe working condition for staff. Once repaired, initial maintenance by staff including televising and field inspection will be necessary. Anticipating that this fix will help relieve this segment of sewer, approximately 12 staff hours (for maintenance) will be reduced annually.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-19-001

Project Name NW Elm Lane Pipe Replacement



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-00-001

Project Name Annual Storm Water Replacement Program

Description

Annual allocation of capital improvement funds for repair and replacement of storm sewer, structures, channels, etc. Specific projects, listed in order of priority, for 2019 include:

Sawgrass Park Dam Flood Repairs, construct - \$100,000
Tributary to North Creek Channel Flood Repairs, construct - \$100,000
West 1st Street Bridge Over Rock Creek Flood Repairs, construct - \$25,000
Triangle Storm Water Detention Basin Outlet Modifications, design and construct - \$85,000
Magazine Road Storm Sewer Improvements, construct - \$50,000
Storm Water Conservation Design Features within City Property - \$10,000

Justification

The purpose of the majority of the projects is to repair areas that were damaged during the June 30, 2018, extreme flash flooding event. The Sawgrass Park Dam Flood Repairs will remove existing trees and repair the embankment on the downslope side of the existing dam which eroded when it was overtopped. The Tributary to North Creek Channel Flood Repairs will restore a streambank that eroded and exposed an existing sanitary sewer line. The West 1st Street Bridge over Rock Creek Flood Repairs will repair scouring at the bridge abutment and eroded slopes adjacent to the bridge. The Triangle Storm Water Detention Basin Outlet Modifications project will modify the basin outlet structure to limit clogging and clear the downstream channel to improve storm water flow. The Magazine Road Storm Sewer Improvements will improve storm water conveyance in the SE Cortina Drive area. Storm water conservation design projects will be added on City property to provide water quality improvements and serve as a demonstration for residents.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	20,000					20,000
Construction Costs	350,000	250,000	250,000	250,000	250,000	1,350,000
Total	370,000	250,000	250,000	250,000	250,000	1,370,000

Funding Sources	2019	2020	2021	2022	2023	Total
Capital Project Fund	7,500					7,500
Other Grants	112,500					112,500
Storm Water Fund	250,000	250,000	250,000	250,000	250,000	1,250,000
Total	370,000	250,000	250,000	250,000	250,000	1,370,000

Budget Impact/Other

Repairing and improving the storm water management system will reduce the annual maintenance costs for the City because the Public Works Department will not have to continue regularly addressing the maintenance issues caused by deficiencies in the storm water management system.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		-2,000	-4,000	-6,000	-8,000	-20,000
Total		-2,000	-4,000	-6,000	-8,000	-20,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-17-001

Project Name Saylor Creek Tributary Channel Improvements

Description

Improvements to address safety, capacity, functionality, sedimentation, erosion, and associated issues within the Saylor Creek Tributary Channel downstream of the Tradition Park Storm Water Detention Basins. The improvements may include reshaping the channel to establish stable slopes, reconnection to the floodplain, addressing diminished flow capacity; providing toe protection; repairing significant sloughing concerns behind the SW Twin Gates Drive residences; and establishing native/wetland plantings.

Justification

The purpose of this project is to stabilize the channel, re-establish flow capacity, and remediate significant erosion issues which have caused safety concerns. The project costs are shown for the concept plan and design work to be completed in 2020 with construction of the project scheduled in 2021.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design		150,000				150,000
Engineering-Construction Services			50,000			50,000
Construction Costs			600,000			600,000
Total		150,000	650,000			800,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds - Storm Water Abated		150,000	650,000			800,000
Total		150,000	650,000			800,000

Budget Impact/Other

Improving the channel will reduce the annual maintenance costs for the City because the Public Works Department will not have to do spot repairs within the existing channel.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs				-1,000	-1,000	-2,000
Total				-1,000	-1,000	-2,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Project # STM-17-001

Project Name Saylor Creek Tributary Channel Improvements



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-18-002

Project Name Wildflower Detention Basin Improvements

Description

Improvements to address functionality, safety, sedimentation, and associated issues with the Wildflower Detention Basin. The improvements may include dredging; expanding the basin's storage capacity; replacing the outlet structure with a staged outlet control structure; and reinforcing the dam embankment to reduce downstream risks.

Justification

The project will improve the functionality of the basin by replacing the structure which will decrease the frequency in which storm water overtops the emergency overflow. Increasing the water depth and basin footprint will also decrease the overtopping frequency. Improving the detention basin will improve the overall functionality of the City's storm water management system. These improvements will also decrease the quantity of storm water that gets on to private residential property and increase the aesthetics of the basin and surrounding area.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	75,000					75,000
Construction Costs		275,000				275,000
Total	75,000	275,000				350,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds - Storm Water	75,000	275,000				350,000
Abated						
Total	75,000	275,000				350,000

Budget Impact/Other

Improving the detention basin will reduce the annual maintenance costs for the City because the Public Works and Parks & Recreation departments will not have to regularly clear and repair the existing outlet structure and remove invasive vegetation.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs			-500	-500	-500	-1,500
Total			-500	-500	-500	-1,500

2019 - 2023 Capital Improvement Program
City of Ankeny, Iowa

2019 thru 2023

Department Storm Water Utility
Contact City Engineer

Project #	STM-18-002
Project Name	Wildflower Detention Basin Improvements



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-19-001

Project Name Tradition Park Detention Basin Flood Repair

Description

Permanent repairs to severely eroded channel and sideslopes between the Reinforced Concrete Box (RCB) culvert south of SW Tradition Drive and the north Tradition Park Storm Water Detention Basin. The repairs may involve realignment of the RCB culvert outlet; sheet pile retaining wall; channel and sideslope re-shaping and stabilization; and remediation of significant erosion issues.

Justification

The purpose of the project is to permanently repair areas that were severely damaged due to the June 30, 2018, extreme flash flooding event and address related safety concerns. Temporary repairs to the damaged areas were completed in July of 2018.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	90,000					90,000
Construction Costs	380,000					380,000
Total	470,000					470,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds - Storm Water	235,000					235,000
Abated						
Other Grants	235,000					235,000
Total	470,000					470,000

Budget Impact/Other

Repairing the storm water management system will reduce the annual maintenance costs for the City because the Public Works Department will not have to do spot repairs to the channel, sideslopes, and around the RCB culvert.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		-1,000	-1,000	-1,000	-1,000	-4,000
Total		-1,000	-1,000	-1,000	-1,000	-4,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Project # STM-19-001

Project Name Tradition Park Detention Basin Flood Repair



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-19-002

Project Name North Creek Channel Flood Repair

Description

Permanent repairs to severely eroded channel and sideslopes along North Creek on the west side of NW Irvinedale Drive. The repairs may involve sheet pile retaining wall; channel and sideslope stabilization and reinforcement; and remediation of significant erosion issues.

Justification

The purpose of the project is to permanently repair areas that were severely damaged due to the June 30, 2018, extreme flash flooding event and address related safety concerns. Temporary repairs to the damaged areas were completed in July of 2018.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	40,000					40,000
Construction Costs	170,000					170,000
Total	210,000					210,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds - Storm Water Abated	105,000					105,000
Other Grants	105,000					105,000
Total	210,000					210,000

Budget Impact/Other

Repairing the storm water management system will reduce the annual maintenance costs for the City because the Public Works Department will not have to do spot repairs within the existing channel.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		-1,000	-1,000	-1,000	-1,000	-4,000
Total		-1,000	-1,000	-1,000	-1,000	-4,000

2019 - 2023 Capital Improvement Program

City of Ankeny, Iowa

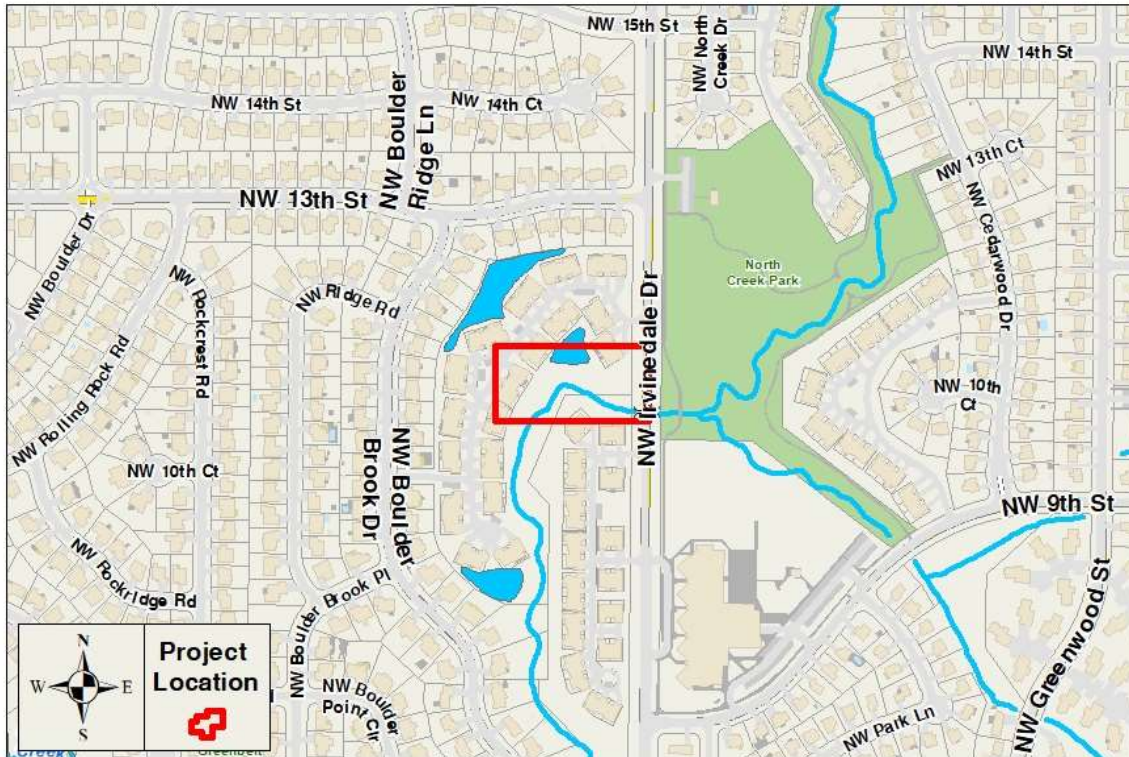
2019 *thru* 2023

Department Storm Water Utility

Contact City Engineer

Project # STM-19-002

Project Name North Creek Channel Flood Repair



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-19-003

Project Name Westwinds Channel Flood Repair

Description

Permanent repairs to eroded channel and sideslopes along the waterway on the far west side of the Westwinds development. The repairs may involve constructing toe reinforcement berms; installing a sheet pile weir; and placing new rock revetment.

Justification

The purpose of the project is to permanently repair areas that were severely damaged due to the June 30, 2018, extreme flash flooding event by stabilizing the channel and remediating significant erosion issues which have caused safety concerns.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	70,000					70,000
Construction Costs	330,000					330,000
Total	400,000					400,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds - Storm Water Abated	200,000					200,000
Other Grants	200,000					200,000
Total	400,000					400,000

Budget Impact/Other

Repairing the storm water management system will reduce the annual maintenance costs for the City because the Public Works Department will not have to do spot repairs to the channel and sideslopes.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		-1,000	-1,000	-1,000	-1,000	-4,000
Total		-1,000	-1,000	-1,000	-1,000	-4,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

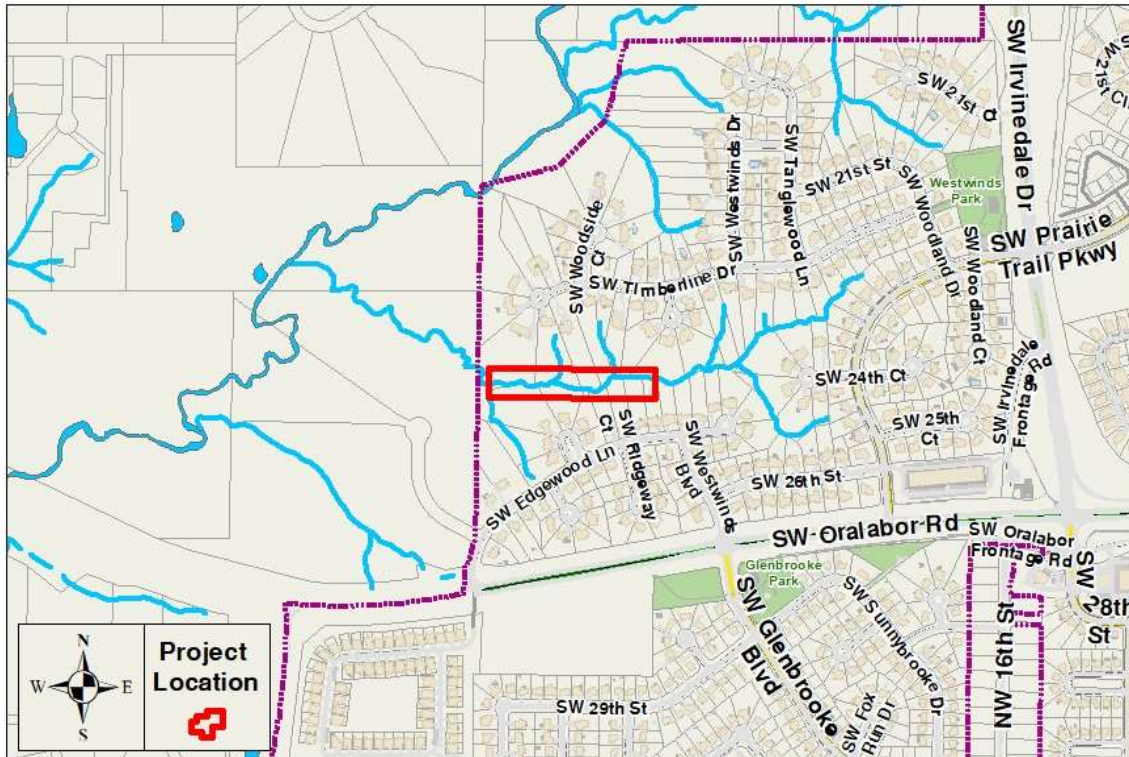
City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Project # STM-19-003

Project Name Westwinds Channel Flood Repair



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-19-004

Project Name Sawgrass Park Dam Improvements

Description

Improvements to address functionality, safety, and associated issues with the Sawgrass Park Dam. The improvements will likely include grading, outlet structure modification, and slope armoring to reduce downstream risks.

Justification

The Sawgrass Park Dam was identified as deficient by the Iowa DNR in 2018 because the dam does not meet the Iowa DNR's current design criteria. Due to the dam's age, it likely did not need a permit when it was originally constructed. This project will improve the functionality of the upstream storm water detention basin by modifying the size of the outlet structure opening and providing a more efficient emergency outlet. The downslope of the dam will be hard-armored to protect from slope failure if overtopping occurs in the future. These improvements will allow the dam to be in compliance with current Iowa DNR standards for dams.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design				100,000		100,000
Engineering-Construction Services					25,000	25,000
Construction Costs					330,000	330,000
Total				100,000	355,000	455,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds - Storm Water Abated				100,000	355,000	455,000
Total				100,000	355,000	455,000

Budget Impact/Other

Improving the dam and the basin's outlet infrastructure will reduce the annual maintenance costs for the City because the Public Works and Parks & Recreation departments should not have to repair the dam's slope and the basin's outlet infrastructure.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

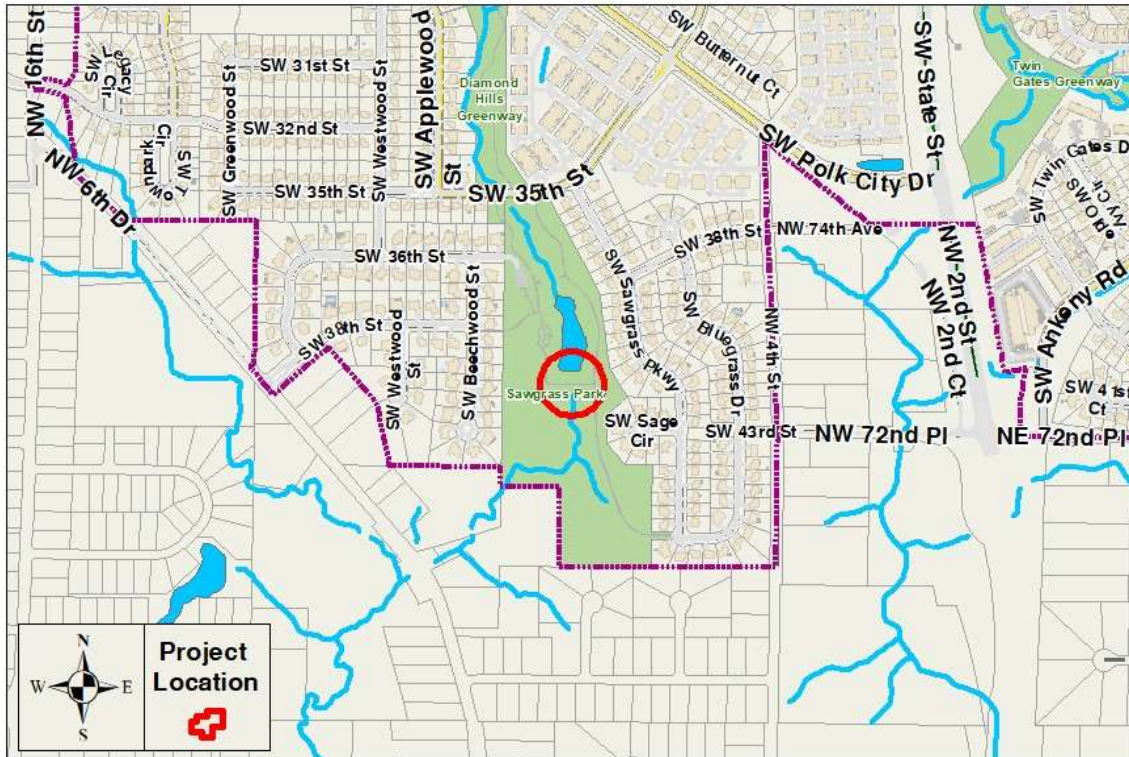
City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Project # STM-19-004

Project Name Sawgrass Park Dam Improvements



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

Useful Life 20 years

Category Streets and Alleys

Project # STR-00-001

Project Name Annual PCC Street Patching Program

Description

This program includes individual PCC street patches and associated intake top and curb ramp repairs throughout Ankeny. The patching projects that are bid annually from this program are designed and inspected in-house by Engineering Division staff. Patch locations are chosen based on field conditions (rider comfort and pavement defects). Specific large-scale utility projects are also partially funded through this program. These include:

- I/3 SE East Lawn Area Utility Improvements (2 phases): 2019 - \$42,000 (engineering) \$360,000 (construction); 2020 - \$14,000 (engineering) \$360,000 (construction)
- I/3 NW North Lawn Area Utility Improvements (4 phases): 2019 - \$25,000 (survey + drainage analysis); 2020 - \$50,000 (design); 2021 - \$60,000 (engineering) \$460,000 (construction); 2022 - \$55,000 (engineering) \$450,000 (construction); 2023 - \$50,000 (engineering) \$380,000 (construction); 2024 - \$20,000 (engineering) \$370,000 (construction)

Justification

The Annual PCC Street Patching Program addresses the most critical, spot location street defects within the City's street system. It is important to maintain the older streets as they deteriorate over time in order to extend their useful life. The size of the street patching project will vary annually based upon available funds remaining after accounting for the 1/3 cost-sharing on the large-scale utility and pavement replacement projects, but is assumed to be a constant \$450,000 per year for the next five years in the table below with approximately \$150,000 allocated to arterials, \$150,000 to collectors, and \$150,000 to locals.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	67,000	64,000	60,000	55,000	50,000	296,000
Construction Costs	810,000	810,000	910,000	900,000	830,000	4,260,000
Total	877,000	874,000	970,000	955,000	880,000	4,556,000

Funding Sources	2019	2020	2021	2022	2023	Total
Capital Project Fund	100,000					100,000
G.O. Bonds	777,000	874,000	970,000	955,000	880,000	4,456,000
Total	877,000	874,000	970,000	955,000	880,000	4,556,000

Budget Impact/Other

The utility and pavement improvement projects will replace existing sanitary sewers, water mains, and pavement infrastructure and add new storm sewer infrastructure which will reduce annual maintenance costs for the City's Public Works and Municipal Utilities departments. The street patching will extend the service life of existing concrete streets and reduce annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavements.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs	-12,000	-24,000	-36,000	-48,000	-60,000	-180,000
Total	-12,000	-24,000	-36,000	-48,000	-60,000	-180,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project # STR-00-002

Project Name Annual Asphalt Street Resurfacing Program

Description

The Annual Asphalt Street Resurfacing Program generally has focused on the HMA overlay of old County rural roadways that are now within the City of Ankeny corporate limits. These projects are typically designed and construction administered in-house by Engineering Division staff. Specific projects for 2019 include:

- NW Weigel Drive, West 1st Street to NW 5th Street, HMA reclamation or overlay = \$140,000
- NW 8th Street, NW Polk City Drive/IA Highway 415 to NW Cypress Avenue, HMA overlay = \$55,000
- Spot locations as needed for HMA repair & overlay on streets & alleys = \$30,000

Potential future projects: SW Ordinance Road HMA overlay & shoulder inlay from SW State Street to South Ankeny Boulevard (5 phases); SW Railroad Avenue HMA paving of gravel street; SW Ankeny Road from State to Oralabor - HMA overlay or diamond grinding; NW 5th Street HMA overlay, Weigel to Irvinedale; SE Four Mile Drive HMA overlay, Oralabor to Magazine (possible cost share with Polk County); public alleyways between SW Cherry Street and Walnut Street, from West 1st Street & SW 3rd Street, HMA overlay.

Justification

Significant progress has been made on overlaying existing asphalt rural roadways along the exterior of the City limits. Engineering Division staff has identified potential projects within the center of the City that could benefit from the annual HMA program by eliminating existing gravel streets & shoulders, including SW Ordinance Road from SW State Street to South Ankeny Boulevard (HMA overlay & HMA shoulder inlay with HMA driveways) and SW Railroad Avenue from SW Ordinance Road to SW Walnut Street (full-depth HMA conversion of existing gravel street).

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs	225,000	150,000	150,000	150,000	150,000	825,000
Total	225,000	150,000	150,000	150,000	150,000	825,000
Funding Sources	2019	2020	2021	2022	2023	Total
Capital Project Fund	75,000					75,000
G.O. Bonds	150,000	150,000	150,000	150,000	150,000	750,000
Total	225,000	150,000	150,000	150,000	150,000	825,000

Budget Impact/Other

This program will extend the service life of existing asphalt streets and reduce annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavements.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs	-2,000	-4,000	-6,000	-8,000	-10,000	-30,000
Total	-2,000	-4,000	-6,000	-8,000	-10,000	-30,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

Useful Life 20 years

Category Streets and Alleys

Project # STR-00-003

Project Name Annual Pavement Preservation Program

Description

The annual pavement preservation program addresses the need for routine, preventative maintenance of the existing concrete streets within Ankeny. The pavement preservation work consists of: (1) cleaning, sawing, and sealing existing joints and cracks, and/or (2) partial depth repair of deteriorated concrete adjacent to joints.

Justification

This program is very important in extending the useful life and improving the aesthetics of the City's concrete streets. Public Works - Engineering Division staff will complete the design and administer construction for this program. Due to the rapidly growing amount of pavement infrastructure within the City and the continued aging of the pavement infrastructure, Public Works is requesting the annual allocation for this program be increased to \$250,000 in future years. The additional funding would allow for additional streets, particularly those that are approximately 15 to 20 years old, to receive pavement preservation treatments. It is anticipated that \$125,000 of the funding would be used for pavement joint and crack sealing, and \$125,000 of the funding would be used for partial depth repair of deteriorated concrete adjacent to joints. These two preventative measures are the primary and most economical means of extending the useful life of the City's streets, thereby reducing the need for more expensive methods such as full depth patching and complete reconstruction.

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs	250,000	250,000	250,000	250,000	250,000	1,250,000
Total	250,000	250,000	250,000	250,000	250,000	1,250,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds	250,000	250,000	250,000	250,000	250,000	1,250,000
Total	250,000	250,000	250,000	250,000	250,000	1,250,000

Budget Impact/Other

This program will extend the service life of existing concrete streets and reduce annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavements.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs	-2,000	-4,000	-6,000	-8,000	-10,000	-30,000
Total	-2,000	-4,000	-6,000	-8,000	-10,000	-30,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-00-004

Project Name Annual Street Replacement Program

Description

Full-depth pavement removal and replacement of streets determined to be in poor to very poor condition as rated by the Pavement Condition Index (PCI). Primary focus has been on collector streets as identified in the 2008 Pavement Management Study. However, there is also a definite need to reconstruct residential streets. Projects generally include pavement replacement along with minor utility replacements, including some under-sized or deteriorated water main replacement when below street improvements.

- 2019: NW 9th Street, NW Irvinedale Drive to NW Park Lane - \$625,000 (construct); SE 8th Street, SE Oak Drive to SE Sharon Drive - \$100,000 (design)
- 2020: NW 9th Street, NW Park Lane to NW Cedarwood Drive - \$625,000 (construct); SE 8th Street, SE Oak Drive to SE Sharon Drive - \$925,000 (construct + inspection); SE 8th Street, South Ankeny Boulevard to SE Oak Drive - \$120,000 (design)
- 2021: SE 8th Street, South Ankeny Boulevard to SE Oak Drive - \$1,095,000 (construct + inspection); SE 8th Street, SE Rio Circle to SE Wanda Drive - \$325,000 (construct); SE Peachtree Drive, SE Oralabor Road to SE Aster Court - \$40,000 (design)
- 2022: NW 5th Street, NW Greenwood Street to Applewood Street - \$550,000 (construct); SE Peachtree Drive, SE Oralabor Road to SE Aster Court - \$385,000 (construct + inspection)
- 2023: TBD

Justification

The older sections of Ankeny have streets that are deteriorating at an advanced rate. Many of these interior streets are generally the same age, with serious cracks, spalls, joint failures, poor subgrade, etc. Public Works has the above locations and numerous additional streets targeted for replacement. The engineering design and construction inspection associated with this program will be primarily completed by in-house Engineering Division staff with a few of the projects targeted for an engineering consultant to complete the professional services.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	100,000	220,000				320,000
Construction Costs	625,000	1,450,000	1,135,000	710,000	550,000	4,470,000
Total	725,000	1,670,000	1,135,000	710,000	550,000	4,790,000

Funding Sources	2019	2020	2021	2022	2023	Total
Capital Project Fund	200,000					200,000
G.O. Bonds		500,000	500,000	500,000	500,000	2,000,000
Road Use Tax Fund	525,000	1,170,000	635,000	210,000	50,000	2,590,000
Total	725,000	1,670,000	1,135,000	710,000	550,000	4,790,000

Budget Impact/Other

This program will reduce the annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavements. The proposed water main replacement will reduce annual maintenance costs for the City because the Municipal Utilities Department will not have to repair existing water pipes and appurtenances.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs	-2,000	-4,500	-9,500	-14,500	-18,500	-49,000
Total	-2,000	-4,500	-9,500	-14,500	-18,500	-49,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-05-003

Project Name SE Creekview Drive Drainage and Paving Improvement

Description

Culvert replacements, Hot Mix Asphalt (HMA) paving and associated roadway improvements on SE Creekview Drive, which is an existing gravel road, from 700 feet south of East 1st Street to 4,000 feet south of East 1st Street. The typical rural section would be 26 feet wide asphalt pavement with 4 feet wide gravel shoulders. Prior to the planned HMA paving and roadway improvements in 2019, a separate project in 2018 replaced several large deteriorated pipe culverts under the road and upgraded the existing 8" water main to 12" diameter.

Justification

The existing gravel surface on this industrial service road requires substantial maintenance. Local businesses along the road have approached the City in the past several years requesting to have the existing road converted to a paved surface. In addition, the existing drainage structures under the road were a maintenance issue and required replacement. Upgrading the existing water main addressed the water hammer issues present at the local businesses. The Preliminary Assessment Schedule has been completed and indicates that a total of approximately \$475,000 can be assessed to the adjacent property owners for the HMA paving and roadway improvements project in 2019.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Construction Services	75,000					75,000
Construction Costs	950,000					950,000
Total	1,025,000					1,025,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds - TIF Abated	1,025,000					1,025,000
Total	1,025,000					1,025,000

Budget Impact/Other

Replacing the existing gravel road, deteriorated pipe culverts, and 8" water main will reduce annual maintenance costs for the City because the Public Works and Municipal Utilities departments will not have to regularly maintain the existing gravel, poor culverts, or undersized water main.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs	-1,500	-15,000	-15,000	-15,000	-15,000	-61,500
Total	-1,500	-15,000	-15,000	-15,000	-15,000	-61,500

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

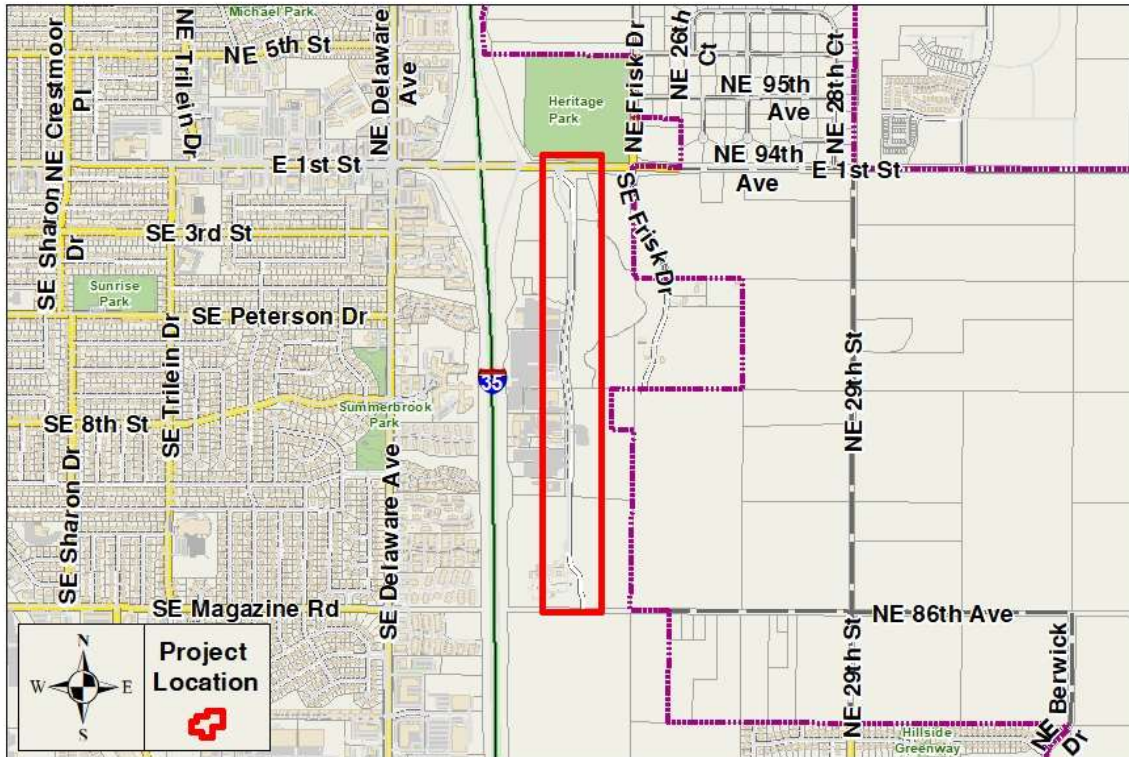
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-05-003

Project Name SE Creekview Drive Drainage and Paving Improvement



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-11-004

Project Name E 1st Street and I-35 Interchange Reconstruction

Description

Reconstruction of the East 1st Street and Interstate 35 interchange into a diverging diamond and the widening of Interstate 35 to a 6-lane section between East 1st Street and NE 36th Street. The Iowa DOT will be funding the majority of the costs associated with the interchange reconstruction and interstate widening. Construction will occur in multiple phases in 2018, 2019, and 2020.

Justification

The Iowa DOT and the City of Ankeny have agreed that the City will fund \$2 million of the approximately \$60 million construction project, payable in three equal installments in FFY 2019, 2020, and 2021. In addition, the City will be responsible for the Division 2 items which include a 16-inch diameter water transmission main along East 1st Street in 2019, as recommended by the Water Storage and Distribution System Study and Master Plan; a joint utility trench that will encase the fiber optic conduit along East 1st Street in 2020; and street lighting along East 1st Street in 2020. The Iowa DOT acquired property from the City during 2016 for the project and will credit the City \$197,000 towards the amount owed by the City to the Iowa DOT. This amount has been deducted from the City's 2019 construction cost. The design services were previously budgeted for and are currently in-progress; however, the consultant has completed additional design work for City-related items including the water main, joint utility trench, trail and underdeck lighting, and permanent signing on East 1st Street. These additional design costs are shown in 2019.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Construction Services	85,000					85,000
Construction Costs	1,025,900	866,666	666,667			2,559,233
Street Lighting		200,000				200,000
Total	1,110,900	1,066,666	666,667			2,844,233

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds	469,666	966,666	666,667			2,102,999
Water Revenue Bonds	641,234	100,000				741,234
Total	1,110,900	1,066,666	666,667			2,844,233

Budget Impact/Other

The reconstruction of the existing diamond interchange into a new diverging diamond interchange will result in a net increase to the number of traffic signals at this location. The reconstruction of East 1st Street will result in an increase to the lane miles and will add annual maintenance costs for the City's Public Works Department. Only the East 1st Street portion of the interchange is the City's responsibility to maintain; the ramps and the additional lane widening along Interstate 35 are the Iowa DOT's responsibility. The additional water main infrastructure will add annual maintenance costs for the City's Municipal Utilities Department in the long term. The additional traffic signals, fiber optic, and street lights will result in additional electric power costs for the City.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs			2,500	2,500	2,500	7,500
Utilities			5,500	5,500	5,500	16,500
Total			8,000	8,000	8,000	24,000

City of Ankeny, Iowa

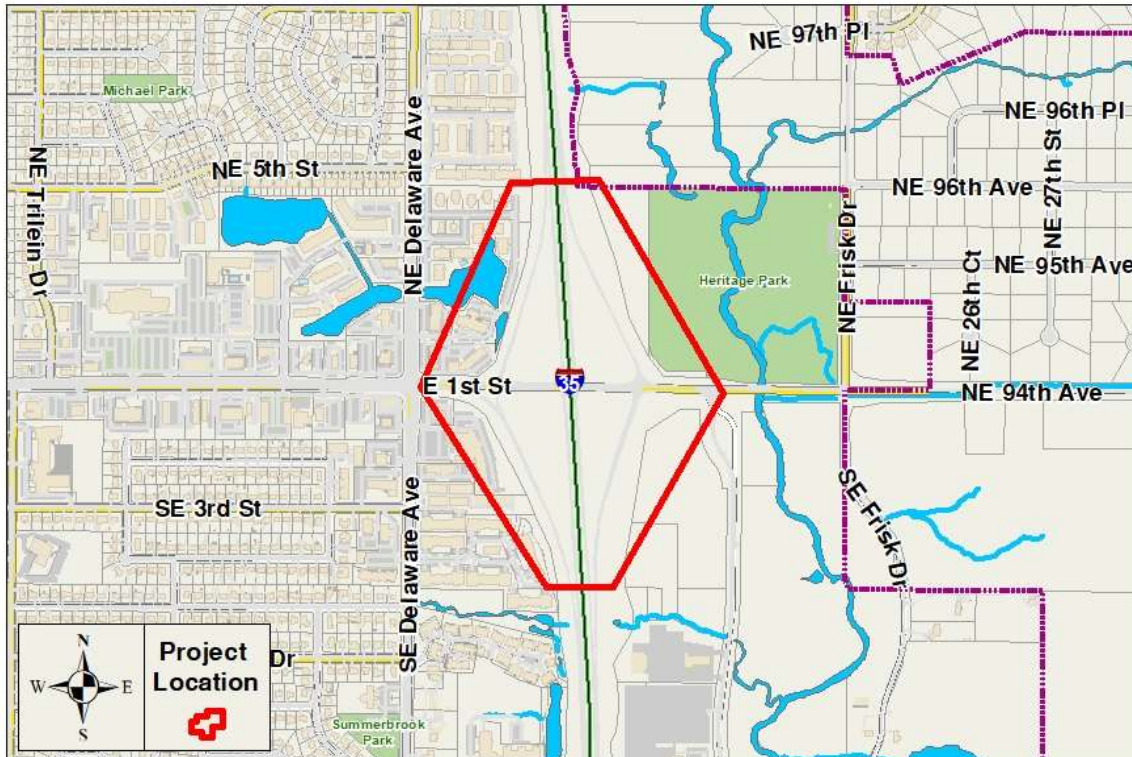
2019 *thru* 2023

Department Public Works

Contact City Engineer

Project # **STR-11-004**

Project Name E 1st Street and I-35 Interchange Reconstruction



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project # STR-14-006

Project Name NE Delaware Avenue Reconstruction-5th to 18th

Description

Reconstruction of NE Delaware Avenue from a two-lane rural roadway to a four-lane divided urban street with left turn lanes at the intersections from NE 5th Street to NE 18th Street. The project also includes a new permanent traffic signal at the NE Delaware Avenue and NE 18th Street intersection, fiber optic interconnect from the new traffic signal at NE 18th Street south to East 1st Street, and upsizing the existing reinforced concrete box culvert to a triple 12 feet x 8 feet RCB.

Justification

This project is being planned for 2022 (Phase 1) and 2023 (Phase 2) construction. The traffic study by Snyder & Associates in 2013 did not show a need to widen this street based on then-current traffic volumes. However, having this street widened will allow for better traffic mobility as the City continues to grow. The study also recommended major improvements to the NE Delaware Avenue and NE 18th Street intersection.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design		100,000	225,000			325,000
Engineering-Construction Services				500,000	275,000	775,000
Construction Costs				4,175,000	4,450,000	8,625,000
Street Lighting				100,000	75,000	175,000
Land/ROW Acquisition			100,000	150,000		250,000
Total		100,000	325,000	4,925,000	4,800,000	10,150,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds		100,000	325,000	4,925,000	3,300,000	8,650,000
MPO/STBG Grants					1,500,000	1,500,000
Total		100,000	325,000	4,925,000	4,800,000	10,150,000

Budget Impact/Other

The additional public street pavement and 8-ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, replacing the existing street will reduce annual maintenance costs for the City because the Public Works Department will not have to do patching and crack & joint sealing on the existing pavement. The traffic signal, fiber optic interconnect, and public utility infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new street lights will result in additional electric power costs for the City.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs					2,000	2,000
Utilities					2,000	2,000
Total					4,000	4,000

City of Ankeny, Iowa

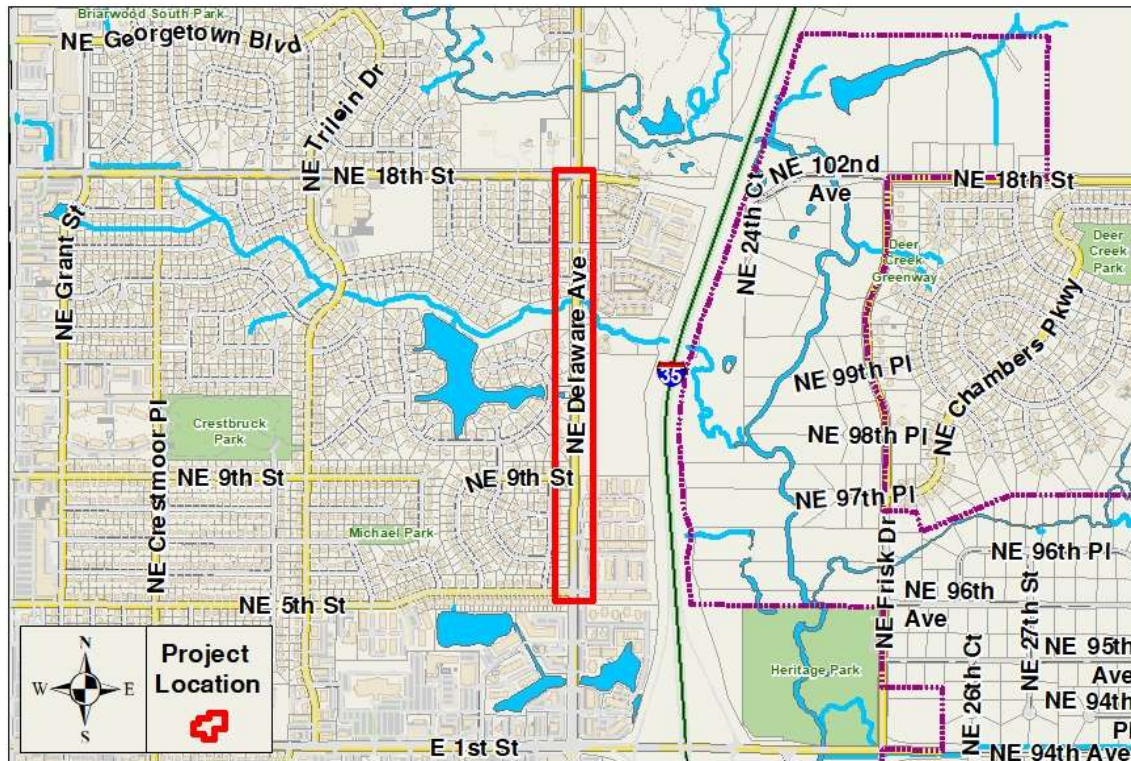
2019 *thru* 2023

Department Public Works

Contact City Engineer

Project # **STR-14-006**

Project Name NE Delaware Avenue Reconstruction-5th to 18th



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-16-001

Project Name S Ankeny Blvd and SE Shurfine Dr Intersection

Description

Reconstruction of the South Ankeny Boulevard (U.S. Highway 69) and SE Shurfine Drive/SW Prairie Trail Parkway intersection to provide dedicated left turn lanes and right turn lanes in all directions. Traffic signal improvements will also be required to accommodate the dedicated turn lanes. A 10" water main connection is needed for looping purposes and a casing pipe is needed for connection to a future 24" diameter transmission main.

Justification

This project will improve traffic capacity and mobility at the South Ankeny Boulevard (U.S. Highway 69) and SE Shurfine Drive/SW Prairie Trail Parkway intersection by providing dedicated left turn lanes and right turn lanes in all directions. This intersection is currently a tee intersection, but will be reconstructed into a four-legged intersection to support the connection of SW Prairie Trail Parkway from the west. It is anticipated that the intersection improvements would be constructed in 2019 and be completed in advance of the proposed opening of Ankeny Schools Elementary #11 in August 2020. The casing pipe is included to provide a conduit underneath SW Prairie Trail Parkway for a future 24" diameter transmission main along the west side of South Ankeny Boulevard, in accordance with the recommendations from the 2016 Water Storage and Distribution System Study and Master Plan. The Iowa DOT will contribute a total of \$850,000 in U-STEP and 3R funding for the project's construction.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	225,000					225,000
Construction Costs	3,250,000					3,250,000
Street Lighting	100,000					100,000
Land/ROW Acquisition	125,000					125,000
Total	3,700,000					3,700,000

Funding Sources	2019	2020	2021	2022	2023	Total
FHWA/IDOT Grants	850,000					850,000
G.O. Bonds	2,700,000					2,700,000
Water Revenue Bonds	150,000					150,000
Total	3,700,000					3,700,000

Budget Impact/Other

The additional public street pavement and 8-ft. sidewalk on SW Prairie Trail Parkway will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, the additional pavement, storm sewer and water main infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new street lights will result in additional electric power costs for the City. The Iowa DOT maintains South Ankeny Boulevard (U.S. Highway 69).

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		500	500	500	500	2,000
Utilities		2,200	2,200	2,200	2,200	8,800
Total		2,700	2,700	2,700	2,700	10,800

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-16-001

Project Name S Ankeny Blvd and SE Shurfine Dr Intersection



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Streets and Alleys

Project # STR-16-002

Project Name NW 18th Street Extension-Weigel to Abbie

Description

Extension of NW 18th Street from NW Weigel Drive west approximately 2,800 LF to NW Abbie Drive. The current gravel road with rural ditch section will be replaced with a 31 ft. wide concrete street with curb and gutter. The project will also include 8 ft. wide sidewalk on the south side, sanitary sewer, storm sewer, water main, street lighting, fiber optic cable in conduit, landscaping/street trees and signing.

Justification

This street extension will improve traffic mobility and support the current and anticipated future development in the northwest quadrant of Ankeny. In the future after this project is completed, the plan is to extend NW 18th Street from NW Abbie Drive west to IA Highway 415.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	50,000	300,000				350,000
Engineering-Construction Services			260,000			260,000
Construction Costs			3,440,000			3,440,000
Land/ROW Acquisition		60,000				60,000
Total	50,000	360,000	3,700,000			4,110,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds	50,000	360,000	3,700,000			4,110,000
Total	50,000	360,000	3,700,000			4,110,000

Budget Impact/Other

Replacing the existing gravel street with a new concrete street will reduce annual maintenance costs for the City because the Public Works Department will not have to regularly maintain the existing gravel for drivability and drainage reasons. The added 8 ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance that will be required. In the long-term, the additional sanitary sewer, storm sewer, and water main infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new street lights will result in additional electric power costs for the City.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs				-9,000	-9,000	-18,000
Utilities				2,000	2,000	4,000
Total				-7,000	-7,000	-14,000

2019 - 2023 Capital Improvement Program

City of Ankeny, Iowa

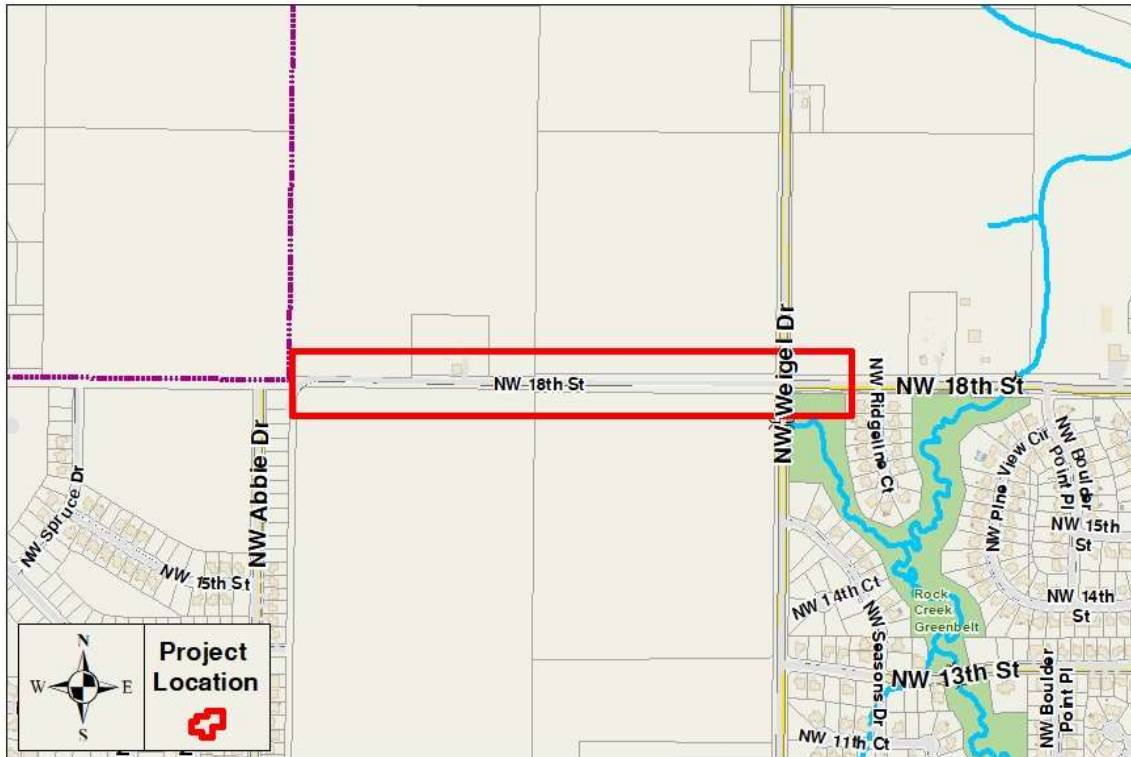
2019 *thru* 2023

Department Public Works

Contact City Engineer

Project # STR-16-002

Project Name NW 18th Street Extension-Weigel to Abbie



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-16-003

Project Name SW Oralabor Rd and SW Irvinedale Dr Intersection

Description

This project includes reconstructing the SW Oralabor Road/IA Highway 415 and SW Irvinedale Drive intersection. This project includes a traffic study, surveying and engineering design in 2022 and construction and engineering construction services in 2024. The majority of the construction associated with this project is paving and traffic signal improvements. Since SW Oralabor Road/IA Highway 415 is a joint jurisdictional roadway, the proposed improvements would need to be coordinated with the Iowa DOT.

Justification

The purpose of the project is to improve traffic mobility and safety at this intersection of arterial streets. This project will replace the aging traffic signal equipment and modify the configuration of the traffic lanes to achieve better traffic operations and mobility and improve safety at the intersection.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design				215,000		215,000
Survey/Preliminary Analysis				50,000		50,000
Total				265,000		265,000
Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds				265,000		265,000
Total				265,000		265,000

Budget Impact/Other

Since this is for the traffic study, survey and design phases and no construction is being programmed at this time, there is not an operating impact in the near term. In the long-term, the City's maintenance costs should not increase because no additional traffic lanes on SW Irvinedale Drive at the intersection are anticipated, and the pavement and traffic signal infrastructure will be improved. The Iowa DOT maintains SW Oralabor Road/IA Highway 415.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-16-003

Project Name SW Oralabor Rd and SW Irvinedale Dr Intersection



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-16-004

Project Name West 1st Street Widening and Improvements-Phase 1

Description

Reconstruction of West 1st Street from just east of SW Scott Street to just east of SW Logan Street. The existing four-lane street will be removed and replaced with a five-lane street that includes a center two-way left turn lane. Additional improvements include public utility improvements, replacement of the traffic signals at the NW Ash Drive/SW Cherry Street and School Street intersections, a DART bus station turn-out lane, and an 8 ft. wide sidewalk/trail along the north side of the street.

Justification

This project is considered the first of two phases that will reconstruct West 1st Street from just east of State Street to just west of Ankeny Boulevard. The current undivided four-lane street is inefficient and unsafe, as left turning vehicles block the inside through traffic lanes. This results in traffic backups and increased accident potential along the corridor. West 1st Street carries heavy daily traffic and the pavement requires regular patching and will approach the end of its useful life by 2020. It is anticipated that the project's construction will be completed over the course of two years due to the overall duration needed to reconstruct an urban arterial and the time constraints necessitated by maintaining traffic flowing in the vicinity of Parkview Middle School. The project is planned for 2020 and 2021 construction, with the survey and concept design occurring in late 2018 and the preliminary and final design occurring in 2019. Federal STBG funding in the amount of \$2,530,000 has already been obtained through the Des Moines Area MPO. In addition, the City has applied for TSIP funding and ICAAP funding.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	600,000					600,000
Engineering-Construction Services		225,000	225,000			450,000
Construction Costs		2,850,000	2,850,000			5,700,000
Street Lighting		50,000	50,000			100,000
Land/ROW Acquisition	50,000					50,000
Total	650,000	3,125,000	3,125,000			6,900,000

Funding Sources	2019	2020	2021	2022	2023	Total
FHWA/IDOT Grants		500,000				500,000
G.O. Bonds - TIF Abated	650,000	1,245,000	1,975,000			3,870,000
MPO/STBG Grants		1,380,000	1,150,000			2,530,000
Total	650,000	3,125,000	3,125,000			6,900,000

Budget Impact/Other

The additional public street pavement will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the mid-term and long-term, replacing the existing street and existing traffic signals will reduce annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavement or maintain outdated traffic signal equipment. The new street lights will result in additional electric power costs for the City.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs			350	700	700	1,750
Utilities			1,200	2,400	2,400	6,000
Total			1,550	3,100	3,100	7,750

City of Ankeny, Iowa

2019 *thru* 2023

Department Public Works

Contact City Engineer

Project # **STR-16-004**

Project Name West 1st Street Widening and Improvements-Phase 1



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project # STR-18-001

Project Name North Ankeny Boulevard Landscaping Improvements

Description

Removing existing landscaping in the medians on North Ankeny Boulevard/U.S. Highway 69 from north of 1st Street to 18th Street and replace with turfgrass and low maintenance landscaping and plantings. The proposed locations include the intersections with 5th Street, 9th Street, 11th Street and 18th Street. Also, the medians at the 18th Street intersection will be modified to improve left-turn drivers' sightline to on-coming opposing traffic. North Ankeny Boulevard/U.S. Highway 69 is a joint jurisdictional street, so the proposed improvements will be coordinated with the Iowa DOT.

Justification

An action item for Public Works from the 2016 Strategic Planning process was to develop concepts for improving the landscaping in the City's rights-of-way and medians. The purpose of this project is to improve the landscaping, sustainability, aesthetics, and safety within the public right-of-way of North Ankeny Boulevard. The existing landscaping in the medians is in poor condition, visually unappealing, and is difficult to maintain. The proposed landscaping improvements concept and associated costs were presented to the City Council at a work session on 10/16/17. The proposed concept has also been reviewed with the Iowa DOT, and they were accepting of the landscape improvements. Median modifications at 18th Street will also be coordinated with the Iowa DOT.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design		130,000				130,000
Engineering-Construction Services			20,000			20,000
Construction Costs		350,000	400,000			750,000
Total		480,000	420,000			900,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds		240,000	210,000			450,000
Hotel/Motel Tax Fund		240,000	210,000			450,000
Total		480,000	420,000			900,000

Budget Impact/Other

The existing landscaping in the medians is difficult to maintain, and the proposed landscaping is low maintenance; therefore, the additional maintenance cost for Operations Division staff is considered negligible. The proposed landscaping will result in additional maintenance costs due to mowing the new turfgrass areas in the medians and normal maintenance of the new irrigation system. Irrigating the landscaped medians and intersection corners will result in additional water usage by the City during the spring and summer months. There is no operating impact associated with modifying the existing medians for improved driver sightlines to on-coming traffic.

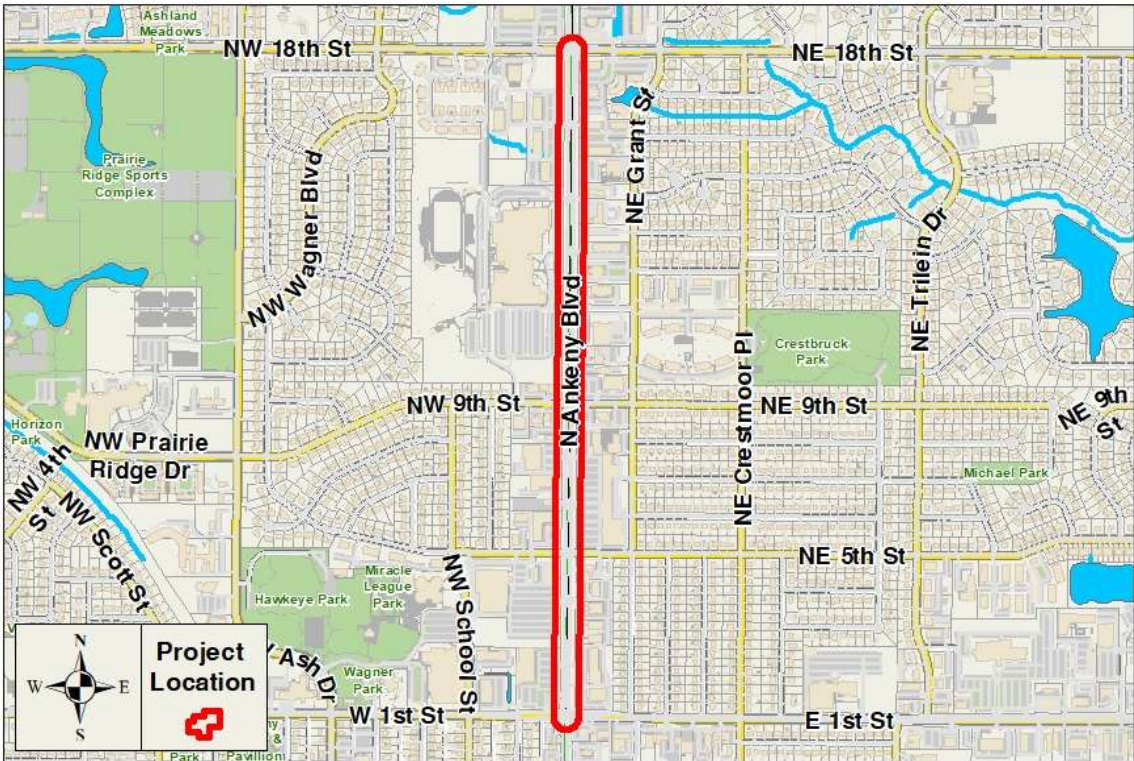
Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs			750	1,500	1,500	3,750
Utilities			500	1,000	1,000	2,500
Total			1,250	2,500	2,500	6,250

2019 - 2023 Capital Improvement Program
City of Ankeny, Iowa

2019 *thru* 2023

Department Public Works
Contact City Engineer

Project #	STR-18-001
Project Name	North Ankeny Boulevard Landscaping Improvements



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project # STR-18-002

Project Name NW 36th St and NW Ash Dr Interim Improvements

Description

Interim improvements at the intersection of NW 36th Street and NW Ash Drive to include the installation of a traffic signal on span wires and the widening of NW 36th Street to accommodate dedicated left turn lanes.

Justification

The continued growth on the City's northwest side, specifically at the Piper Properties development located south of NW 36th Street between NW Ash Drive and North Ankeny Boulevard, will likely require a traffic signal at the NW 36th Street and NW Ash Drive intersection along with dedicated left turn lanes on NW 36th Street within the next five years. The proposed project is considered an interim improvement until the NW 36th Street corridor is widened to a four-lane divided arterial street and a permanent traffic signal is installed.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design				50,000		50,000
Engineering-Construction Services					50,000	50,000
Construction Costs					475,000	475,000
Total				50,000	525,000	575,000
Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds				50,000	525,000	575,000
Total				50,000	525,000	575,000

Budget Impact/Other

The additional public street pavement will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, the additional pavement and traffic signal infrastructure will add annual maintenance costs for the City's Public Works Department. Also, the new traffic signal will result in additional electric power costs to the City.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

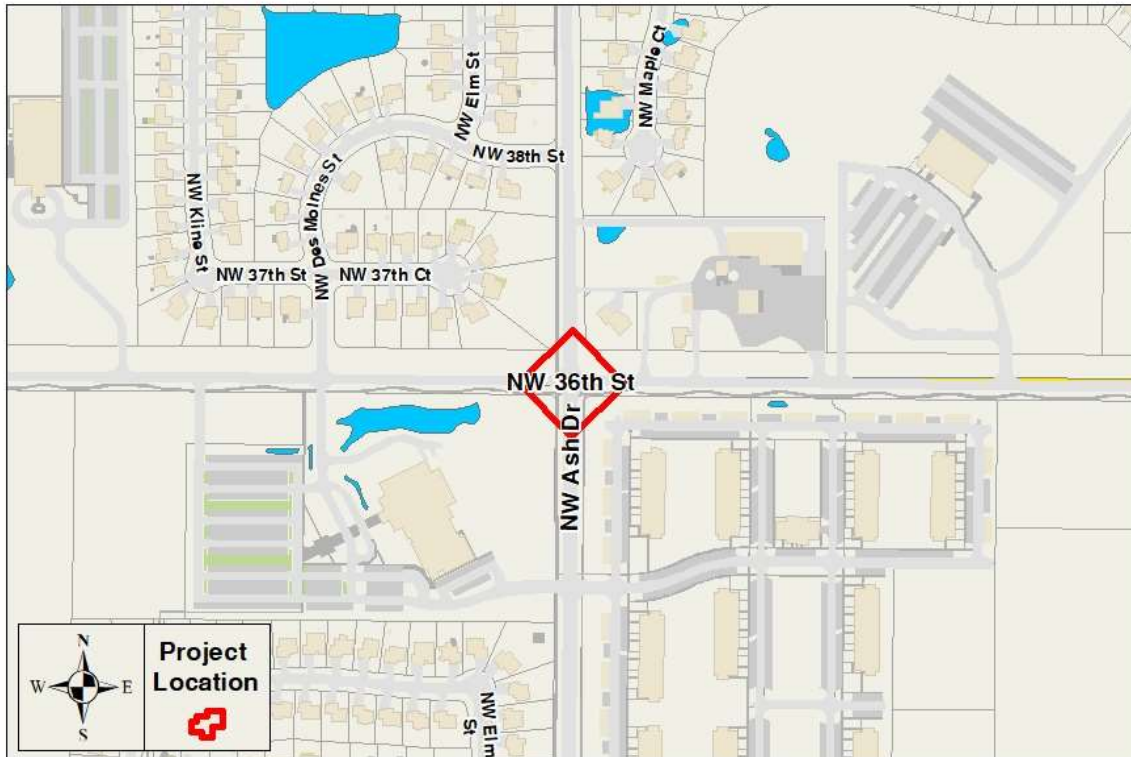
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-18-002

Project Name NW 36th St and NW Ash Dr Interim Improvements



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-18-003

Project Name NW 36th St Reconstruction-Irvinedale to Abilene

Description

The reconstruction of NW 36th Street, an existing two-lane rural roadway, from just east of NW Irvinedale Drive to NW Abilene Road. The project includes the removal of the existing asphalt roadway and construction of a two-lane PCC urban street. Storm sewer improvements are included. Sanitary sewer and water main are assumed to be constructed with pending future development along the corridor in advance of the roadway reconstruction. Reconstruction and traffic signalization of the NW 36th Street and NW Irvinedale Drive intersection is not included with this project.

Justification

It is anticipated that traffic volumes will drive the need to reconstruct NW 36th Street from NW Irvinedale Drive to NW Abilene Road within the next five years. This segment of NW 36th Street received an asphalt overlay in 2015; however, traffic is expected to continue to increase due to Rock Creek Elementary and adjacent current and future development, which will likely advance the deterioration of the existing asphalt rural roadway. Design is planned for 2022 with construction planned for 2023. It is anticipated that the topographic survey and base mapping would be completed in Fall 2021 in order to maintain the project schedule.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design					275,000	275,000
Land/ROW Acquisition					25,000	25,000
Survey/Preliminary Analysis			50,000			50,000
Total			50,000		300,000	350,000
Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds			50,000		300,000	350,000
Total			50,000		300,000	350,000

Budget Impact/Other

The additional public street pavement and 8-ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, replacing the existing asphalt roadway with a concrete street will reduce annual maintenance costs for the City because the Public Works Department will not have to do pavement preservation on the existing asphalt. The additional storm sewer infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments, and the new street lights will result in additional electric power costs to the City.

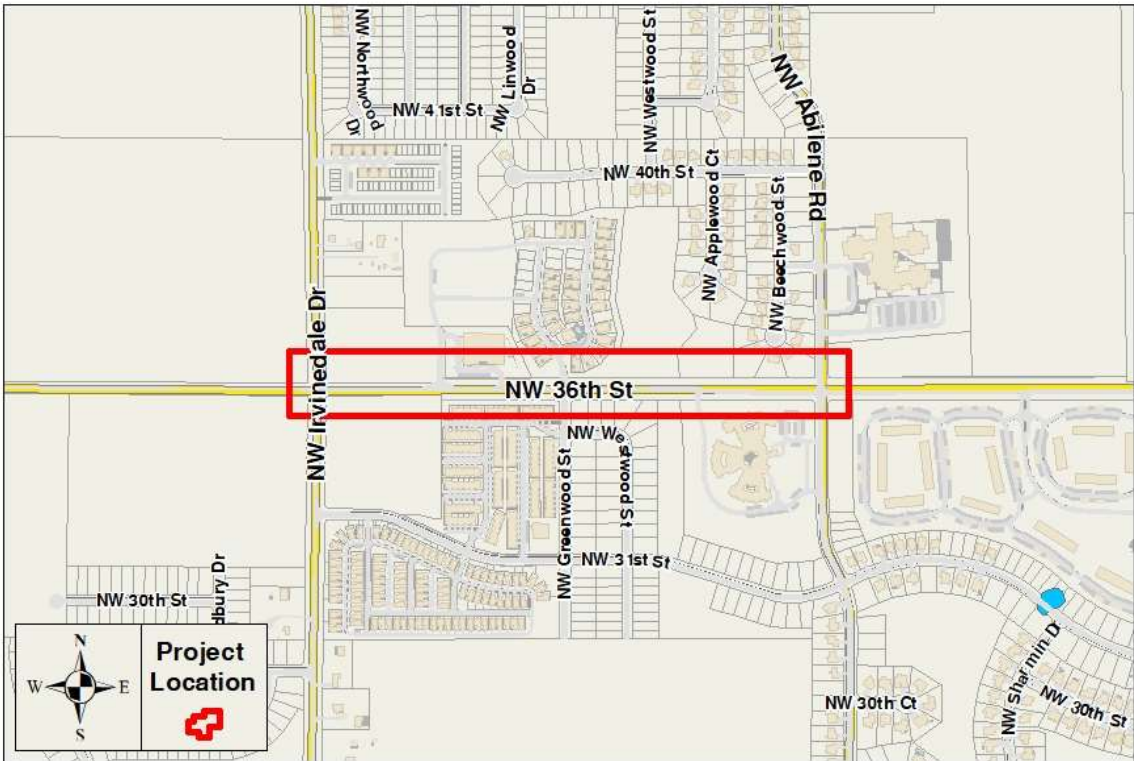
2019 - 2023 Capital Improvement Program

2019 thru 2023

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

Project #	STR-18-003
Project Name	NW 36th St Reconstruction-Irvinedale to Abilene



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Streets and Alleys

Project # STR-18-004

Project Name NW 18th Street Extension-Abbie to Highway 415

Description

Extension of NW 18th Street from NW Abbie Drive west approximately 3,700 LF to IA Highway 415. This new roadway alignment will connect the proposed extension of NW 18th Street from NW Weigel Drive to NW Abbie Drive west to IA Highway 415. It is proposed to be a 31-ft. wide concrete street with curb and gutter. The project will also include 8-ft. wide sidewalk on the south side, sanitary sewer, storm sewer, water main, street lighting, fiber optic and conduit, landscaping/street trees, and signing.

Justification

This street extension will improve traffic mobility and support the current and anticipated future development in the northwest quadrant of Ankeny. The west portion of this project, where it ties into IA Highway 415, is currently outside the existing City limits.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design					500,000	500,000
Land/ROW Acquisition					130,000	130,000
Survey/Preliminary Analysis			100,000			100,000
Total			100,000		630,000	730,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds			100,000		630,000	730,000
Total			100,000		630,000	730,000

Budget Impact/Other

The added public street pavement and 8-ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, the additional sanitary sewer, storm sewer, and water main infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new street lights will result in additional electric power costs for the City.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

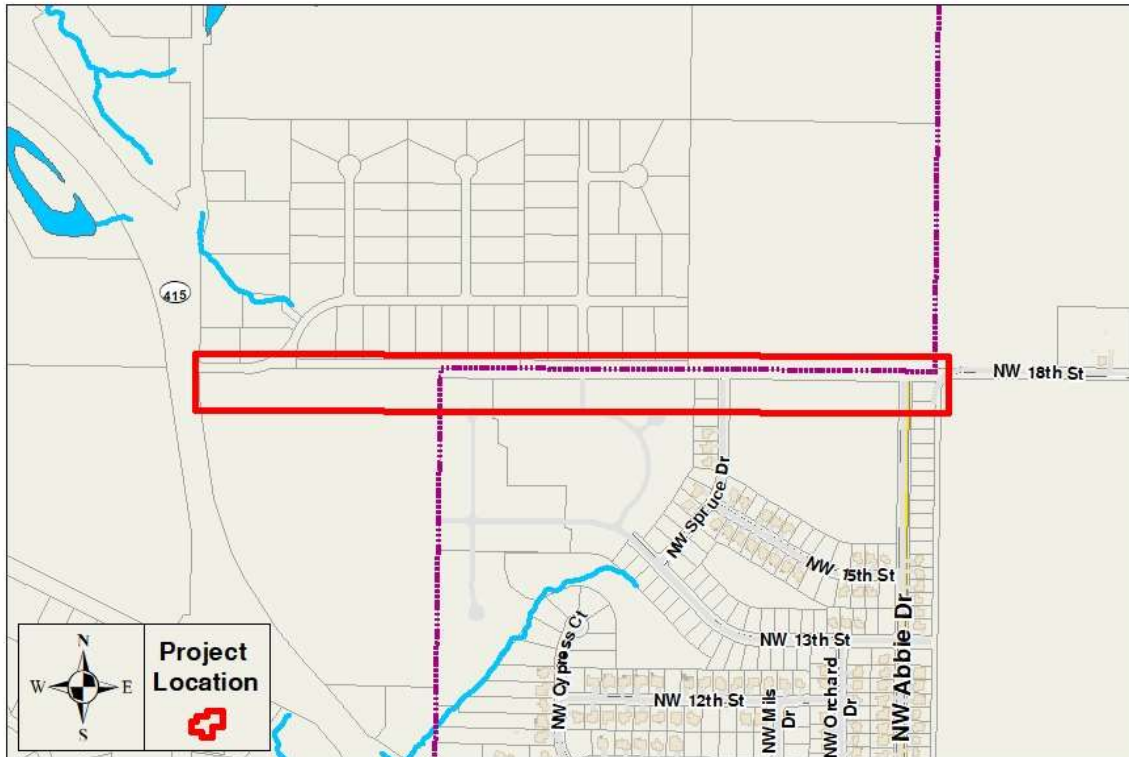
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-18-004

Project Name NW 18th Street Extension-Abbie to Highway 415



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-18-005

Project Name Prairie Ridge Sports Complex-Parking Lot Access

Description

Complete a concept study, design and construction of access improvements to the existing parking lot in the north part of the Prairie Ridge Sports Complex (PRSC). The parking lot has approximately 700 spaces but only one access along NW 18th Street.

Justification

The purpose of the project is to improve mobility for ingress and egress traffic using the existing parking lot in the north part of the PRSC. In particular, egress traffic has a difficult time efficiently exiting the parking lot because of the high traffic volumes in the parking lot and on NW 18th Street and due to the lack of a secondary access. This can also be a safety concern during severe weather events. Given the high usage of the PRSC, having an additional access for the north parking lot, specifically to another major street (e.g. NW State Street or NW Ash Drive), would be beneficial. An order of magnitude construction cost opinion for the access improvements is approximately \$600,000. It is anticipated that one-half of the project's construction would be completed in 2023 and the other one-half in 2024. The design and construction cost opinions would be updated during the concept study phase.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design				100,000		100,000
Construction Costs					300,000	300,000
Planning Study			25,000			25,000
Total			25,000	100,000	300,000	425,000
Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds			25,000	100,000	300,000	425,000
Total			25,000	100,000	300,000	425,000

Budget Impact/Other

Since the construction would not be completed within the 5-year CIP timeframe, there is not an operating impact in the near term. In the long-term, the additional pavement will add maintenance costs for the City's Parks & Recreation department.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

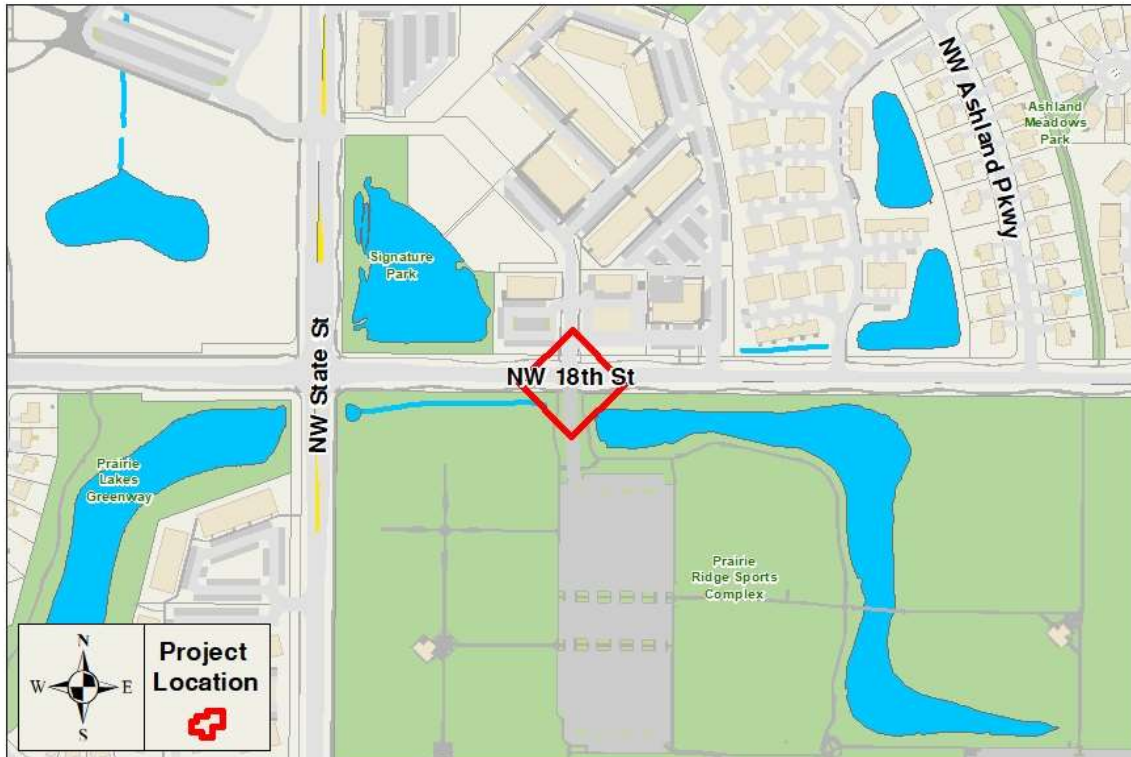
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-18-005

Project Name Prairie Ridge Sports Complex-Parking Lot Access



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 10 years

Category Streets and Alleys

Project # STR-18-006

Project Name S Ankeny Blvd and SW Oralabor Rd Safety Studies

Description

Complete traffic safety and concept studies, develop concept alternative(s), and prepare a conceptual opinion of probable cost for potential geometric and/or traffic signal improvements at the following intersections: 1) South Ankeny Boulevard and SE 3rd Street; 2) SW Oralabor Road and SW State Street; and 3) South Ankeny Boulevard and Oralabor Road. The intent is to study intersections #1 and #2 in 2019 and #3 in 2020.

Justification

The purpose of the project is to determine whether traffic safety can be improved at the three intersections. In the Iowa DOT's recent Statewide Intersection Improvement Candidate Location (SICL) list, the South Ankeny Boulevard and SE Magazine Road (#8), South Ankeny Boulevard and SE 3rd Street (#10), SW Oralabor Road and SW State Street (#12), and South Ankeny Boulevard and Oralabor Road (#27) intersections are all ranked very high. A safety study for the South Ankeny Boulevard and SE Magazine Road intersection was completed in 2018. The SICL list is based upon crash severity, crash rate, and crash frequency. Traffic volumes will continue to increase at these intersections due to the rapid population growth and on-going development occurring in Ankeny. If the studies show geometric and/or traffic signal improvements would be beneficial for improving safety at the intersections, Public Works staff will consider programming the design and construction phases for future years.

Expenditures	2019	2020	2021	2022	2023	Total
Consultant	45,000	25,000				70,000
Total	45,000	25,000				70,000
Funding Sources	2019	2020	2021	2022	2023	Total
Road Use Tax Fund	45,000	25,000				70,000
Total	45,000	25,000				70,000

Budget Impact/Other

Since these are studies and no construction is being programmed at this time, there is no operating impact.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-18-007

Project Name SE Hulsizer Road Realignment

Description

Realign SE Hulsizer Road from SE Oralabor Road north to approximately 400 ft. south of SE Dalbey Drive. The new street would be located between the Perkins and Olive Garden restaurants, and it would connect with SE Oralabor Road, directly across from NE 19th Lane. The proposed project includes public utility improvements, new sidewalks, and adding a traffic signal at the realigned SE Hulsizer Road/NE 19th Lane and SE Oralabor Road intersection. Since SE Oralabor Road/IA Highway 160 is a joint jurisdictional street, the proposed intersection improvements would need to be coordinated with the Iowa DOT.

Justification

The purpose of the project is to improve traffic mobility and safety for vehicles (including semi-trailer trucks) that use SE Hulsizer Road and its intersection with SE Oralabor Road. Connecting SE Hulsizer Road to SE Oralabor Road directly across from NE 19th Lane will provide adequate spacing from the adjacent signalized intersections so that a traffic signal could be added at the new intersection. The street realignment would also provide for more economic development opportunities for the properties and businesses north of SE Oralabor Road and west of SE Hulsizer Road. The City's Economic Development Department has submitted a Revitalize Iowa's Sound Economy (RISE) funding application to the Iowa DOT for the project.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	175,000					175,000
Engineering-Construction Services		175,000				175,000
Construction Costs		1,950,000				1,950,000
Land/ROW Acquisition	150,000					150,000
Total	325,000	2,125,000				2,450,000

Funding Sources	2019	2020	2021	2022	2023	Total
FHWA/IDOT Grants		641,000				641,000
G.O. Bonds - TIF Abated	325,000	1,484,000				1,809,000
Total	325,000	2,125,000				2,450,000

Budget Impact/Other

The added public street pavement and 8 ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, the additional pavement, sanitary sewer, storm sewer, water main, and traffic signal infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new street lights and traffic signal will result in additional electric power costs for the City.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs			700	700	700	2,100
Utilities			1,500	1,500	1,500	4,500
Total			2,200	2,200	2,200	6,600

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-18-007

Project Name SE Hulsizer Road Realignment



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-18-008

Project Name SW Oralabor Road and DMACC Intersection

Description

Pavement widening, median, pedestrian ramp, pavement marking, and traffic signal modifications at the SW Oralabor Road/IA Highway 160 and DMACC Boulevard/SW Highpointe Drive intersection to allow for dual left turn lanes on eastbound SW Oralabor Road at the intersection. The project is being led by DMACC and the Iowa DOT, since SW Oralabor Road/IA Highway 160 is a joint jurisdictional roadway.

Justification

The purpose of the project is to improve mobility and reduce delays for eastbound traffic on SW Oralabor Road at the DMACC Boulevard intersection. The project is a high priority for DMACC and the Iowa DOT, and they plan to construct the improvements in 2019. In the spring of 2018, the City, Iowa DOT and DMACC entered into a cost-sharing agreement for the project where the Iowa DOT will contribute \$500,000; the City will contribute 50% of the remaining cost up to \$200,000 maximum; and DMACC will fund the remaining cost. The City's reimbursement of its portion of the project cost will occur no earlier than July 1, 2020.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	75,000					75,000
Construction Costs	825,000					825,000
Total	900,000					900,000
Funding Sources	2019	2020	2021	2022	2023	Total
FHWA/IDOT Grants	500,000					500,000
G.O. Bonds	200,000					200,000
Private Contributions	200,000					200,000
Total	900,000					900,000

Budget Impact/Other

The City's maintenance costs should not change because no additional traffic lanes will be added on DMACC Boulevard or SW Highpointe Drive. Also, the City's electric power cost should not change because the existing traffic signal will be modified only. The Iowa DOT maintains SW Oralabor Road/IA Highway 160.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-18-008

Project Name SW Orallabor Road and DMACC Intersection



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-19-001

Project Name Ankeny Blvd and 1st St Landscaping Improvements

Description

New landscaping and irrigation at each corner of the Ankeny Boulevard and 1st Street intersection and within the raised medians on 1st Street to the west and east of the intersection.

Justification

The landscaping project is a separate project from the Ankeny Boulevard and 1st Street intersection improvements project completed in 2018. The landscaping will complement the colored and decorative concrete and raised planting beds previously constructed with the intersection improvements project. The aesthetics are designed to match the future landscaping improvements plan that is proposed for North Ankeny Boulevard, between 1st Street and 18th Street.

Expenditures	2019	2020	2021	2022	2023	Total
Architect	5,000					5,000
Construction Costs	70,000					70,000
Total	75,000					75,000

Funding Sources	2019	2020	2021	2022	2023	Total
Hotel/Motel Tax Fund	75,000					75,000
Total	75,000					75,000

Budget Impact/Other

Since the existing landscaping in the medians was difficult to maintain and the new landscaping is low maintenance, the additional landscaping maintenance costs is considered negligible. The new landscaping will result in additional maintenance costs due to normal maintenance of the new irrigation system. Irrigating the landscaped medians and intersection corners will result in additional water usage by the City during the spring and summer months.

Budget Items	2019	2020	2021	2022	2023	Total
Utilities	200	200	200	200	200	1,000
Total	200	200	200	200	200	1,000

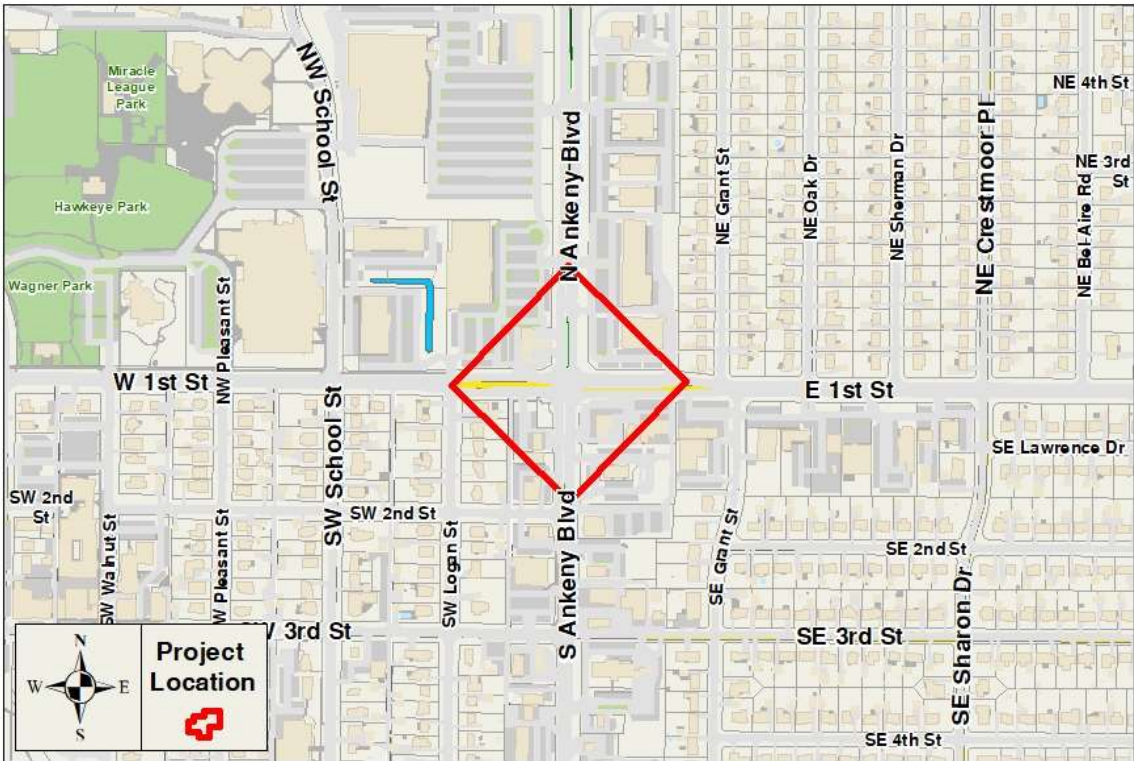
2019 - 2023 Capital Improvement Program

2019 thru 2023

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

Project #	STR-19-001
Project Name	Ankeny Blvd and 1st St Landscaping Improvements



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

Useful Life 20 years

Category Streets and Alleys

Project # STR-19-002

Project Name SE Four Mile Drive Asphalt Overlay

Description

Hot Mix Asphalt (HMA) overlay of SE Four Mile Drive/County NE 29th Street from approximately 0.25-mile south of SE 90th Street north to approximately 0.7-mile south of SE Oralabor Road.

Justification

The majority of this segment of SE Four Mile Drive/County NE 29th Street was last overlaid in 1997, and the existing pavement surface is in poor condition. Polk County Public Works is proposing to include the road in their 2019 Annual HMA Overlay Program, and they have asked the City to cost-share on the project, since it is a joint jurisdictional road. It is estimated that the City's portion of the construction cost would be approximately \$275,000. Polk County Public Works would be responsible for designing the project and the construction administration and inspection.

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs	275,000					275,000
Total	275,000					275,000

Funding Sources	2019	2020	2021	2022	2023	Total
Road Use Tax Fund	275,000					275,000
Total	275,000					275,000

Budget Impact/Other

The City is responsible for the routine maintenance on SE Four Mile Drive/County NE 29th Street from SE Corporate Woods Drive to SE Oralabor Road, and Polk County Public Works is responsible for the routine maintenance on SE Four Mile Drive/County NE 29th Street south of SE Corporate Woods Drive. The HMA overlay will extend the service life of the existing pavement and reduce annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavement.

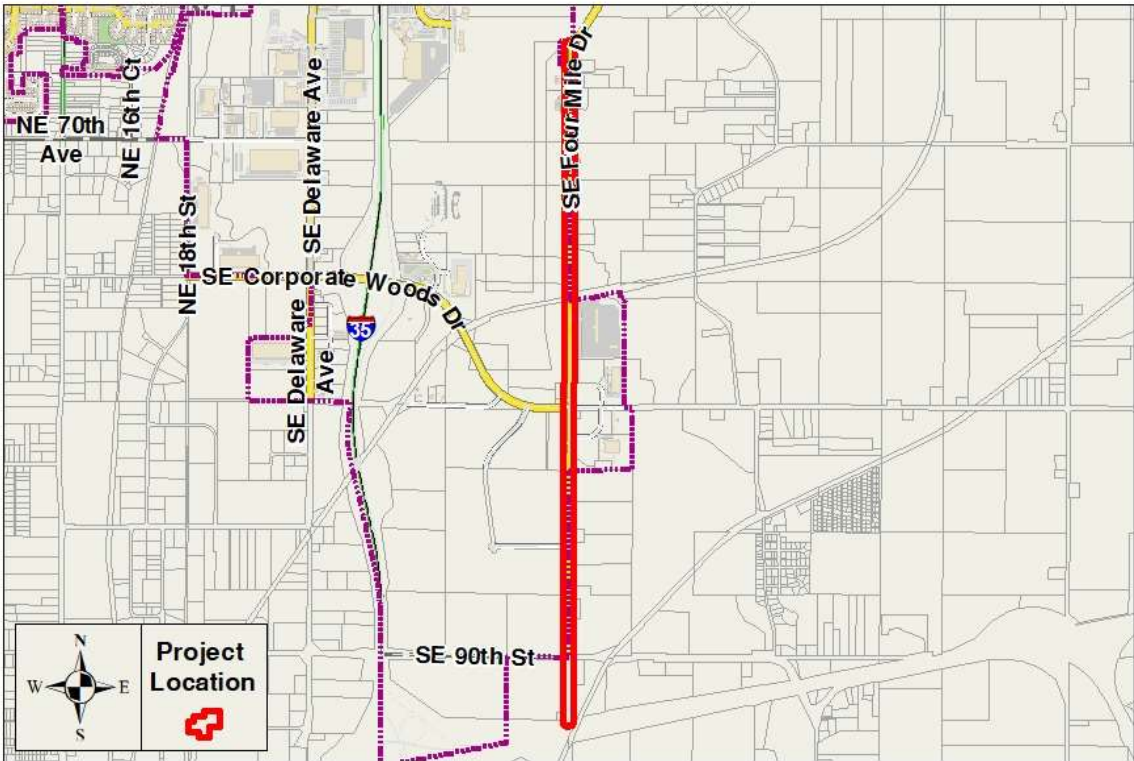
Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs		-5,000	-5,000	-5,000	-5,000	-20,000
Total		-5,000	-5,000	-5,000	-5,000	-20,000

2019 - 2023 Capital Improvement Program
City of Ankeny, Iowa

2019 *thru* 2023

Department Public Works
Contact City Engineer

Project #	STR-19-002
Project Name	SE Four Mile Drive Asphalt Overlay



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-19-003

Project Name North Ankeny Blvd and Georgetown Blvd Intersection

Description

The project involves adding a traffic signal, realignment of the westbound and eastbound approaches on NW-NE Georgetown Boulevard, and improvements to the pedestrian ramps at the North Ankeny Boulevard and NW-NE Georgetown Boulevard intersection.

Justification

The project will fulfill the City's commitment established in the Development Agreement with Aldi, Inc. in May of 2018, to construct a traffic signal at the intersection of North Ankeny Boulevard and NW-NE Georgetown Boulevard within approximately one year of the Aldi's store opening. Aldi, Inc. agreed to provide any right-of-way and/or easements needed for the project at no cost to the City and to reimburse the City for 50% of the traffic signal construction cost, to a maximum amount of \$125,000. North Ankeny Boulevard is also U.S. Highway 69, and the City has requested Urban-State Traffic Engineering Program (U-STEP) funding from the Iowa DOT for the project.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	30,000					30,000
Construction Costs	525,000					525,000
Land/ROW Acquisition	5,000					5,000
Total	560,000					560,000

Funding Sources	2019	2020	2021	2022	2023	Total
FHWA/IDOT Grants	175,000					175,000
G.O. Bonds	260,000					260,000
Private Contributions	125,000					125,000
Total	560,000					560,000

Budget Impact/Other

In the long-term, the additional traffic signal infrastructure will add annual maintenance costs for the City's Public Works Department. Industry standards recommend one FTE signal technician per 30-35 traffic signals, plus one FTE fiber optic technician per 100 devices. The new traffic signal will result in additional electric power costs for the City. The associated street and minor public utility improvements will replace or modify existing facilities and will have no operating impact.

Budget Items	2019	2020	2021	2022	2023	Total
Utilities		300	300	300	300	1,200
Total		300	300	300	300	1,200

City of Ankeny, Iowa

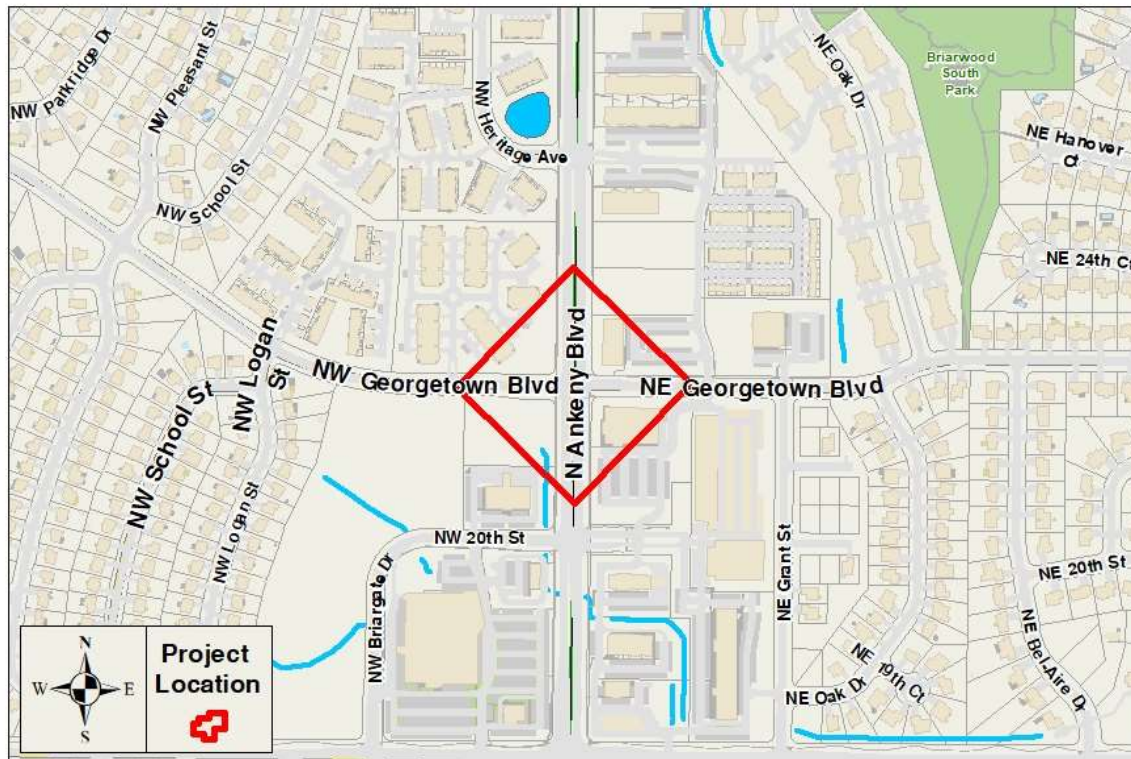
2019 *thru* 2023

Department Public Works

Contact City Engineer

Project # **STR-19-003**

Project Name North Ankeny Blvd and Georgetown Blvd Intersection



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

Useful Life 20 years

Category Streets and Alleys

Project # STR-19-004

Project Name NW 36th St-Weigel to Irvinedale Asphalt Overlay

Description

This project involves Hot Mix Asphalt (HMA) paving on NW 36th Street from NW Weigel Drive to NW Irvinedale Drive. NW 36th Street is an existing gravel roadway, and the proposed surface would be 26 feet wide and 8 inch thick HMA with 2 feet wide granular shoulders. This project also includes extending an existing box culvert and consultant engineering design and construction services.

Justification

This project will improve the driving surface of the existing gravel roadway, reduce the amount of dust coming off the roadway, reduce the maintenance associated with gravel roads and help support the existing and future development occurring in this area.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design					60,000	60,000
Total					60,000	60,000
Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds					60,000	60,000
Total					60,000	60,000

Budget Impact/Other

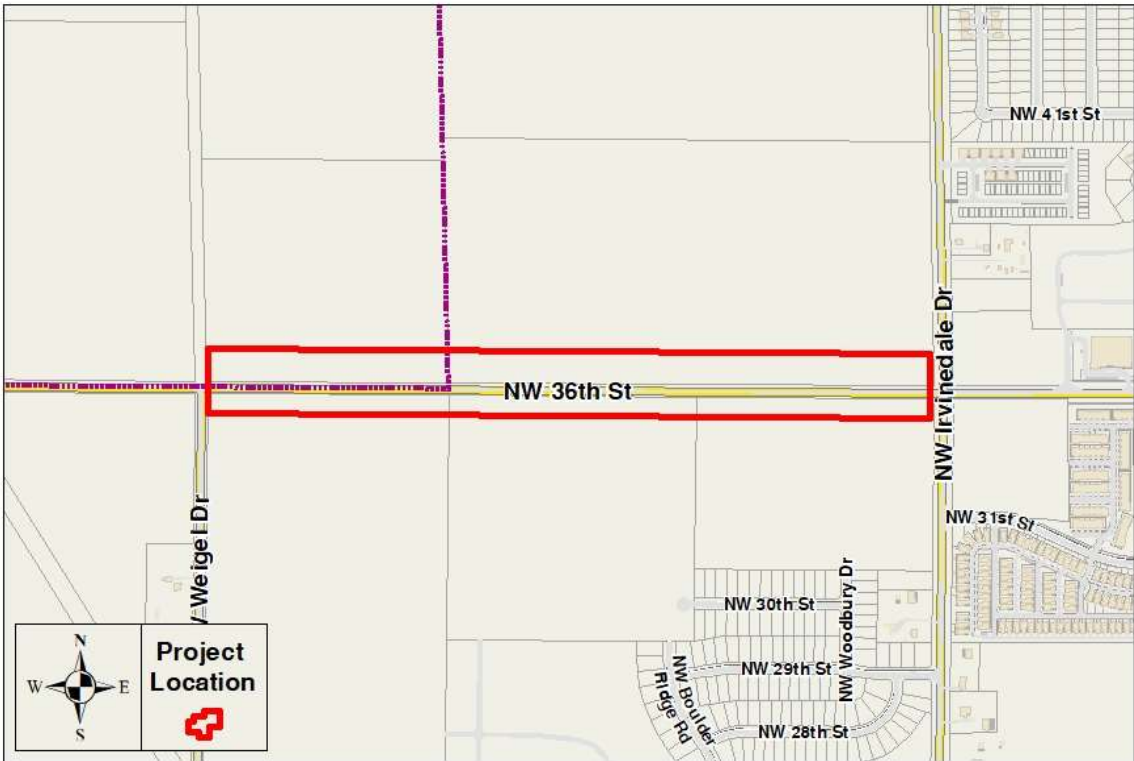
This project will reduce annual maintenance costs for the City because the Public Works Department will not have to regularly maintain the existing gravel roadway.

2019 - 2023 Capital Improvement Program
City of Ankeny, Iowa

2019 *thru* 2023

Department Public Works
Contact City Engineer

Project #	STR-19-004
Project Name	NW 36th St-Weigel to Irvinedale Asphalt Overlay



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

Useful Life 40 years

Category Streets and Alleys

Project # STR-19-005

Project Name SW State Street Paving Improvements

Description

This project includes the reconstruction and/or rehabilitation of the PCC pavement in the northbound lanes of SW State Street from just north of SW Ordinance Road to approximately 150 feet south of West First Street. This project includes removal and replacement of the existing pavement structure along with subgrade improvements. This project also includes consultant engineering design and construction services.

Justification

This segment of SW State Street is experiencing significant deterioration of the existing joints and pavement structure. It requires regular maintenance (primarily cold patching) by Public Works to maintain a drivable surface. The project's construction costs assume full depth removal and replacement of the existing pavement; however, there may be an opportunity to utilize pavement rehabilitation methods in some sections which could reduce the cost.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	75,000					75,000
Engineering-Construction Services		75,000				75,000
Construction Costs		1,000,000				1,000,000
Total	75,000	1,075,000				1,150,000

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bonds	75,000	1,075,000				1,150,000
Total	75,000	1,075,000				1,150,000

Budget Impact/Other

This project will reduce the annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavement

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs			-8,500	-8,500	-8,500	-25,500
Total			-8,500	-8,500	-8,500	-25,500

2019 - 2023 Capital Improvement Program

City of Ankeny, Iowa

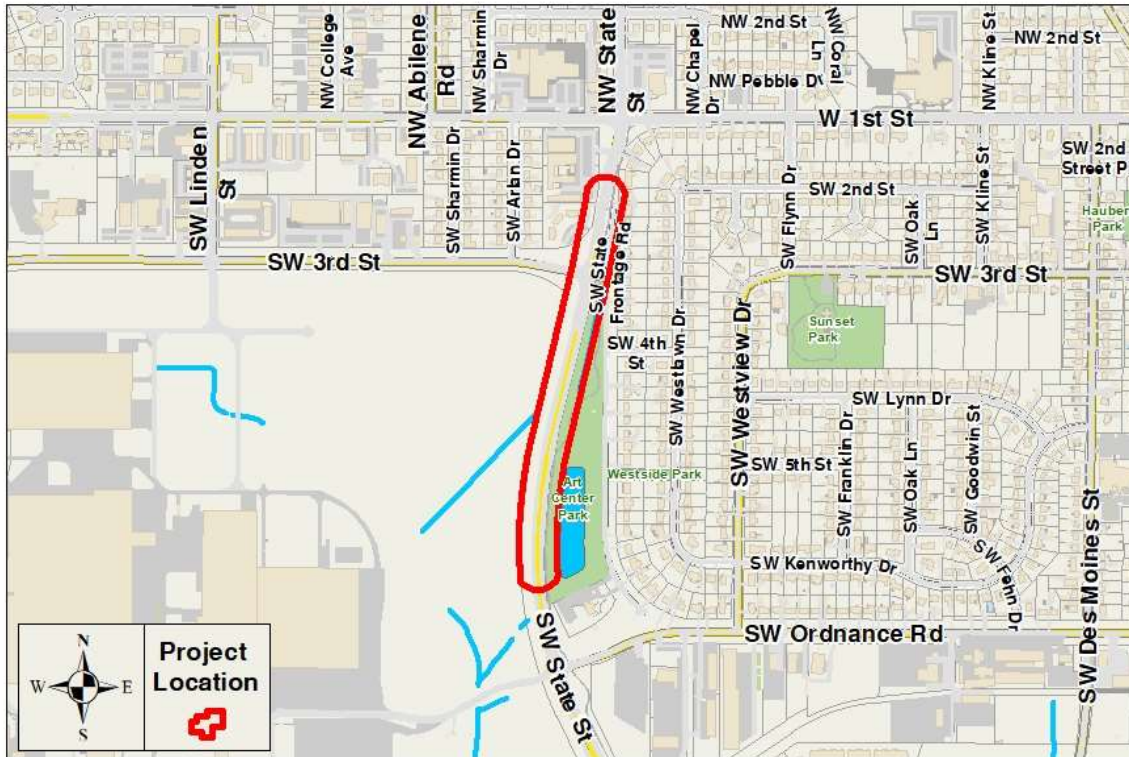
2019 *thru* 2023

Department Public Works

Contact City Engineer

Project # STR-19-005

Project Name SW State Street Paving Improvements



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works
Contact City Engineer
Type Improvement
Useful Life 40 years
Category Streets and Alleys

Project #	STR-19-006
Project Name	SW Oralabor Rd and SW Edgewood Ln Intersection

Description

Add eastbound and westbound left turn lanes on SW Oralabor Road at the SW Edgewood Lane intersection. Since SW Oralabor Road is also IA Highway 415, the project would be coordinated with the Iowa DOT.

Justification

The SW Oralabor Road/IA Highway 415 and SW Edgewood Lane intersection is the only intersection along SW Oralabor Road that does not have dedicated left turn lanes for westbound and eastbound traffic. Traffic volumes will likely continue to increase on SW Oralabor Road, so adding left turn lanes at this intersection should improve traffic safety and mobility. Iowa DOT supports the proposed project and said it would be eligible for U-STEP funding

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design					25,000	25,000
Construction Costs					150,000	150,000
Total					175,000	175,000

Funding Sources	2019	2020	2021	2022	2023	Total
FHWA/IDOT Grants					75,000	75,000
G.O. Bonds					100,000	100,000
Total					175,000	175,000

Budget Impact/Other

The Iowa DOT maintains SW Oralabor Road/IA Highway 415, so this project would not have an operating impact on the City.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

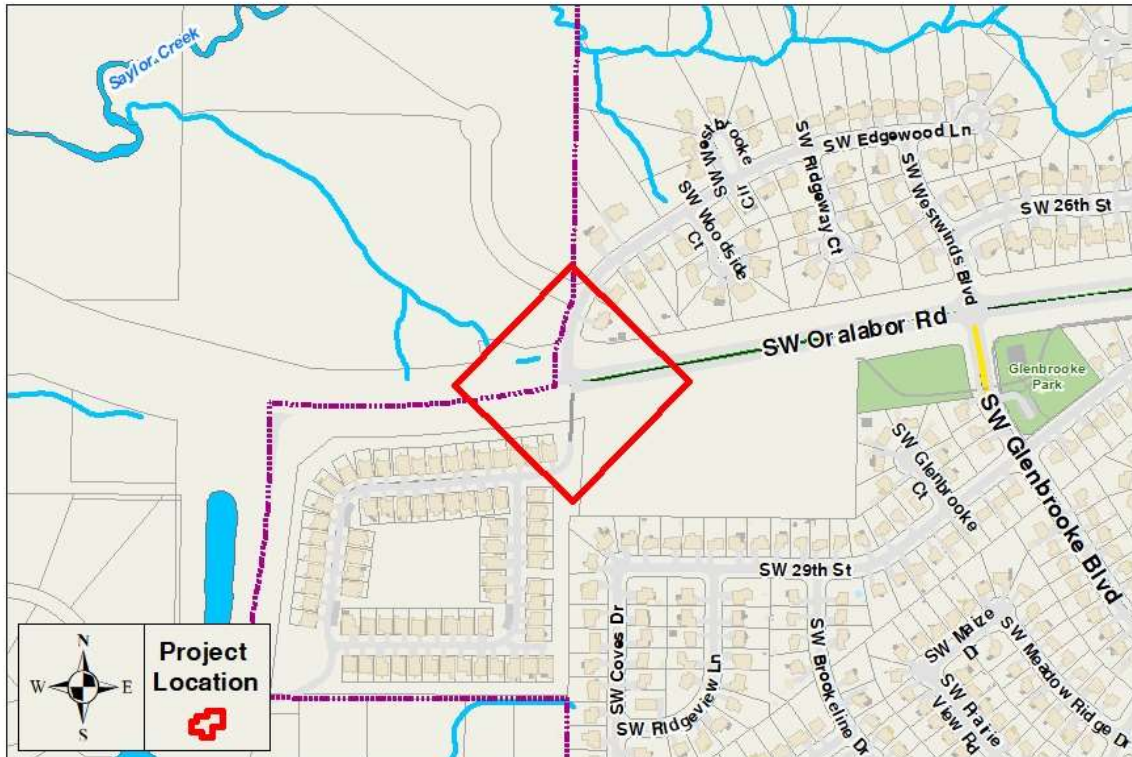
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-19-006

Project Name SW Oralabor Rd and SW Edgewood Ln Intersection



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-19-007

Project Name South Ankeny Blvd and Magazine Rd Safety Imprv

Description

The project will modify existing medians on South Ankeny Boulevard and Magazine Road to improve left-turning driver's sightline to on-coming opposing vehicles. The project also includes traffic signal and pedestrian ramp upgrades.

Justification

The South Ankeny Boulevard & Magazine Road intersection was listed in the most recent Iowa Department of Transportation (DOT) Top 200 Safety Improvement Location Candidates at #8. The 2018 safety study identified a correctable left-turn crash history and recommended modifications to three existing medians, with implementation of flashing yellow arrow (FYA) left-turn treatments and pedestrian ramp upgrades for ADA compliance. Since Ankeny Boulevard is also U.S. Highway 69, the proposed improvements will need to be coordinated with the Iowa DOT. Appropriate funding requests (e.g. Traffic Safety Improvement Program and Urban-State Traffic Engineering Program) will be submitted in 2019 for the project.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design		55,000				55,000
Engineering-Construction Services			30,000			30,000
Construction Costs			250,000			250,000
Survey/Preliminary Analysis	10,000					10,000
Total	10,000	55,000	280,000			345,000

Funding Sources	2019	2020	2021	2022	2023	Total
FHWA/IDOT Grants			125,000			125,000
G.O. Bonds	10,000	55,000	155,000			220,000
Total	10,000	55,000	280,000			345,000

Budget Impact/Other

The project will modify existing infrastructure, so the operating impact will be negligible.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

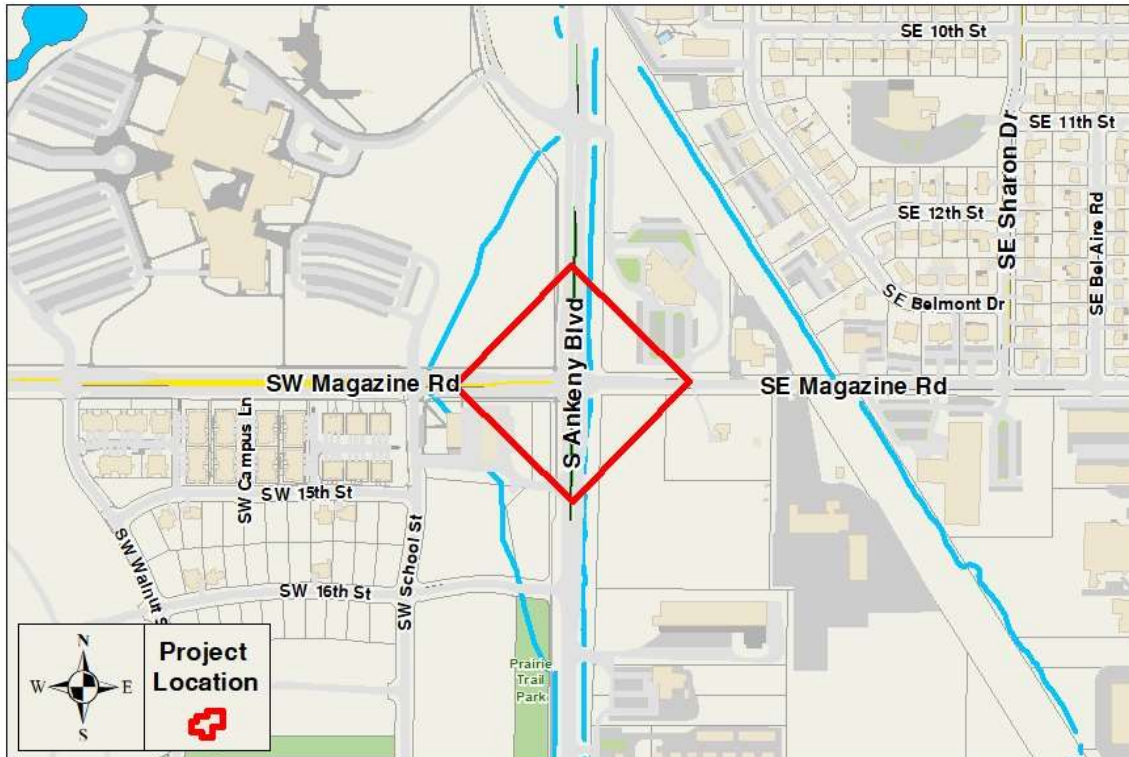
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-19-007

Project Name South Ankeny Blvd and Magazine Rd Safety Imprv



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Streets and Alleys

Project # STR-19-008

Project Name SE Crosswinds Drive/SE 77th Street Imprv

Description

Construction of two new streets within the Crosswinds Business Park. SE Crosswinds Drive will extend north from SE 90th Street (County NE 54th Avenue) approximately 3,400 feet. SE 77th Street will be extended west from its current terminus approximately 1,000 feet and will intersect with the proposed SE Crosswinds Drive. Proposed improvements include two-lane PCC curb-and-gutter paving, storm sewers, sanitary sewers, water mains, sidewalks, entrances, street lights, landscaping, surface restoration and associated roadway construction.

Justification

These street projects are being proposed at this time to support and facilitate at least two new warehouse/manufacturing developments within the Crosswinds Business Park. The tax base and new jobs generated by these developments will be substantial. These street projects will be constructed in coordination with the adjacent developments, with a portion of the street project costs anticipated to be funded by an Iowa DOT RISE grant.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	378,000					378,000
Engineering-Construction Services		360,000				360,000
Construction Costs	2,132,000	2,030,000				4,162,000
Total	2,510,000	2,390,000				4,900,000

Funding Sources	2019	2020	2021	2022	2023	Total
FHWA/IDOT Grants	500,000					500,000
Private Contributions	2,010,000	2,390,000				4,400,000
Total	2,510,000	2,390,000				4,900,000

Budget Impact/Other

After completion, the added streets and utilities will be the responsibility of the City to maintain. The annual maintenance costs will be the responsibility of the Public Works and Municipal Utilities departments. The additional street lights along the roadways will also be an additional City expense annually.

Budget Items	2019	2020	2021	2022	2023	Total
Maintenance Costs	1,000	2,500	2,500	2,500	2,500	11,000
Utilities	150	300	300	300	300	1,350
Total	1,150	2,800	2,800	2,800	2,800	12,350

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-19-008

Project Name SE Crosswinds Drive/SE 77th Street Imprv



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 20 years

Category Traffic Control

Project # TRF-00-001

Project Name Annual Traffic Signal Improvement Program

Description

Proposed Locations of New Traffic Signals:

2019 – NE Delaware Avenue & NE 18th Street Pedestrian Signal Modifications - \$35,000 (construct)
 2019 – Fiber Optic Conduit Connection between New Library and Police Station - \$125,000 (construct)
 2019 – SW State Street & SW Prairie Trail Parkway Traffic Signal and Intersection Improvements - \$900,000 (construct) and \$50,000 (inspection)
 2019 – South Ankeny Boulevard Fiber Optic Relocation between SE Lorenz Drive and SE 8th Street - \$160,000 (construct; cost share with Ankeny Schools)
 2019 to 2020 – NE 18th Street & NE Trilein Drive - \$50,000 (design) in 2019 and \$350,000 (construct) in 2020
 2021 to 2023 – Traffic Signal, Beacon, and Fiber Optic Projects To Be Determined (\$425,000)

Potential Future Projects: SE Delaware Avenue & SE 8th Street; SW Ordinance Road & SW Cherry Street; SW Oralabor Road & SW Westwinds Boulevard/SW Glenbrooke Boulevard; SW State Street & SW Plaza Parkway; West 1st Street & NW/SW Linden Street; NE Delaware Avenue & NE 5th Street; Fiber Optic Conduit Connection along High Trestle Trail between South Ankeny Boulevard & SE Magazine Road; Fiber Optic Connection along SE Delaware Avenue from SE Magazine Road to East 1st Street; NW 36th Street & NW Ash Drive; NW 36th Street & NW State Street; NW 36th Street & NW Irvinedale Drive; High Trestle Trail crossing at NW State Street (HAWK or RRFB); High Trestle Trail crossing at NW Irvinedale Drive (HAWK or RRFB); NW 18th Street & Prairie Ridge Sports Complex Entrance; Additional Fiber Optic projects for Redundancy; SE Delaware Avenue & SE 54th Street (cost share with developer); North Ankeny Boulevard & NE 47th Street; SW Oralabor Road & SW College Avenue.

Justification

The City currently has 73 traffic signals, including flashing speed feedback beacons and pedestrian crossing signals. An effective and efficient traffic signal system improves traffic safety and mobility, reduces energy costs and enhances the quality of life for residents. The proposed locations of traffic signals shown above are reviewed annually and planning level costs are used. There is potential to obtain federal and/or state funding for signals proposed at intersections with state highways. It is assumed that 50% of the cost of the SW State Street & SW Prairie Trail Parkway Traffic Signal and Intersection Improvements project is Civic Trust Fund eligible.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	100,000	50,000	50,000	50,000	50,000	300,000
Construction Costs	1,220,000	350,000	375,000	375,000	375,000	2,695,000
Total	1,320,000	400,000	425,000	425,000	425,000	2,995,000

Funding Sources	2019	2020	2021	2022	2023	Total
Capital Project Fund	100,000					100,000
G.O. Bonds	660,000	400,000	425,000	425,000	425,000	2,335,000
Private Contributions	60,000					60,000
Road Use Tax Fund	500,000					500,000
Total	1,320,000	400,000	425,000	425,000	425,000	2,995,000

Budget Impact/Other

In the long-term, the additional traffic signal infrastructure will add annual maintenance costs for the City's Public Works Department. Industry standards recommend one FTE signal technician per 30-35 traffic signals, plus one FTE fiber optic technician per 100 devices. New traffic signals will result in additional electric power costs for the City.

Budget Items	2019	2020	2021	2022	2023	Total
Utilities	800	1,100	1,400	1,700	2,000	7,000
Total	800	1,100	1,400	1,700	2,000	7,000

City of Ankeny, Iowa

2019 *thru* 2023

Department	Water Utility
Contact	Municipal Utilities Director
Type	Improvement
Useful Life	40 years
Category	Water Mains

Project #	WTM-00-001
Project Name	Annual Water Main Replacement Program

Description

Annual allocation of capital improvement funds for repair and replacement of water utility infrastructure. Specific projects for 2019 to 2023 include the following:

- Development water main oversizing, 2019 to 2023 – \$80,000/year (except \$100,000 in 2019)
- I/3 SE Eastlawn Area Utility Improvements (2 phases): 2019 – \$42,000 (engineering) \$360,000 (construction); 2020 – \$14,000 (engineering) \$360,000 (construction)
- I/3 NW Northlawn Area Utility Improvements (4 phases): 2019 - \$25,000 (survey and drainage analysis); 2020 - \$50,000 (engineering); 2021 - \$60,000 (engineering) \$460,000 (construction); 2022 - \$55,000 (engineering) \$450,000 (construction); 2023 - \$50,000 (engineering) \$380,000 (construction); 2024 - \$20,000 (engineering) \$370,000 (construction)
- SE 8th Street (Sharon to Ankeny Boulevard) Water Main Improvements (2 phases), 2020 - \$145,000; 2021 \$225,000

Justification

The water main proposed for replacement are primarily 4" iron pipe prioritized based upon their history of water main breaks. They are inadequate for supplying fire flows based on industry and SUDAS standards and require additional O&M to maintain water quality. Municipal Utilities staff will be used for the design and construction observation whenever possible; however, the full reconstruction and utility replacement projects (SE Eastlawn, NW Northlawn, and SE 8th Street) anticipate the use of a consulting engineer for design.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	67,000	64,000	60,000	55,000	50,000	296,000
Construction Costs	460,000	585,000	765,000	530,000	460,000	2,800,000
Total	527,000	649,000	825,000	585,000	510,000	3,096,000
Funding Sources	2019	2020	2021	2022	2023	Total
Capital Project Fund	27,000	149,000	325,000	85,000	10,000	596,000
Water Fund	500,000	500,000	500,000	500,000	500,000	2,500,000
Total	527,000	649,000	825,000	585,000	510,000	3,096,000

Budget Impact/Other

The operating impact for this project will be negligible from the maintenance aspect due to the replacement of old and deteriorating water main with new PVC main. There will be staff hours during design and engineering for administration personnel, and field services personnel during construction. Researching old plans, field verifications, contract and plan reviews, operating valves, locating, and on-site observations. Water will be needed for testing, flushing, and filling the various mains.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs	10,000	10,000	10,000	10,000	10,000	50,000
Utilities	500	500	500	500	500	2,500
Total	10,500	10,500	10,500	10,500	10,500	52,500

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project # WTM-17-001

Project Name High Trestle Trail Transmission Main

Description

Install approximately 9,800 LF of 24" transmission water main along the High Trestle Trail and abandoned railroad grade from the Ash Water Tower north to NW 18th Street, and then west along NW 18th Street to NW Irvinedale Drive. This project will complete the 24" water main loop to the NW Booster Station.

Justification

The purpose of this project is to improve the performance and operation of our overall water system by allowing the Southwest and East pressure zones to be combined into one zone. This transmission main will allow the NW Booster Station to draw suction supply water from both water towers as needed. This will supply the booster station with adequate water for full build out of the area in the northwest quadrant of Ankeny.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design			275,000			275,000
Engineering-Construction Services				275,000		275,000
Construction Costs				2,950,000		2,950,000
Total			275,000	3,225,000		3,500,000

Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds			275,000	3,225,000		3,500,000
Total			275,000	3,225,000		3,500,000

Budget Impact/Other

This is a new transmission main, it is not a replacement. Based on the HDR model, we will no longer have to throttle flows from DMWW to fill or drain the SW Water Tower now that we will have a looped 24" transmission main. Both towers should operate as one and we will only have two pressure zones including the normal pressure we have always had and the boosted pressure in the northwest part of town. Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. Additionally 100 hours of staff time will be needed during design and engineering. It will take almost 1,150,000 gallons to fill and flush the new main.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs			9,000	6,000		15,000
Utilities				2,600		2,600
Total			9,000	8,600		17,600

City of Ankeny, Iowa

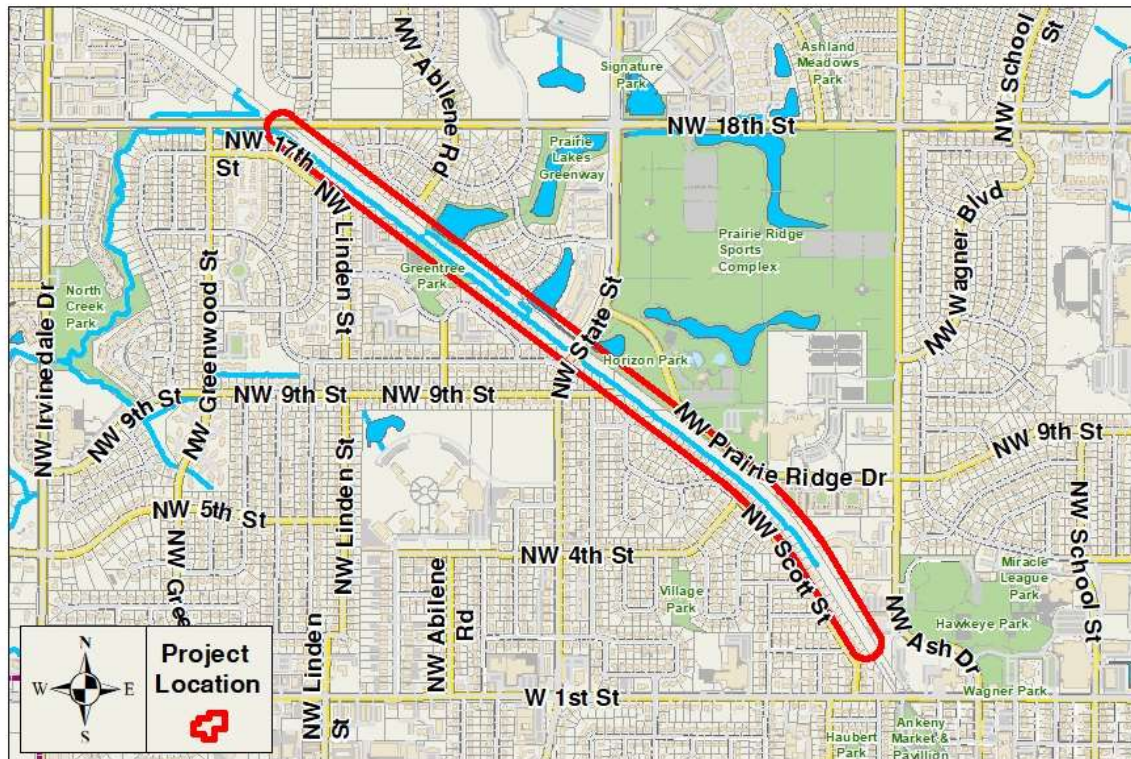
2019 *thru* 2023

Department Water Utility

Contact Municipal Utilities Director

Project # **WTM-17-001**

Project Name	High Trestle Trail Transmission Main
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2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project # WTM-17-003
Project Name SE Magazine Road Water Main Improvements

Description

Approximately 2,600 LF of 16" water main extension starting along SE Magazine Road from just east of South Ankeny Boulevard to RR ROW and then following RR ROW southeast for about 1,000 feet then east over to the existing 12" water running north/south. This project will eliminate a gap in the transmission/distribution water main in this area of the City. Trenchless construction will be used for this project to reduce disruption of existing driveways and other utilities in the area. This project is currently under design and will be constructed in 2019.

Justification

The purpose of this project is to provide looping for the City's East Water Pressure Zone. This project will also improve the fire flows within the area and ease the filling and discharging of water at the Magazine Pump Station and storage tank. Having a larger water main in this location will reduce the wear and tear of the pumps at the Magazine Pump Station.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Construction Services	65,000					65,000
Construction Costs	450,000					450,000
Land/ROW Acquisition	40,000					40,000
Total	555,000					555,000
Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds	555,000					555,000
Total	555,000					555,000

Budget Impact/Other

This project can reduce the frequency of maintenance of the pumps at the Magazine Pump Station as they will not have to work as hard to get water into our distribution system. Less friction loss in larger diameter pipes means pumps will not have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs due to lower amp draw. Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. It will also take about 136,000 gallons to fill and flush the new main.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs	6,000					6,000
Utilities	300					300
Total	6,300					6,300

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

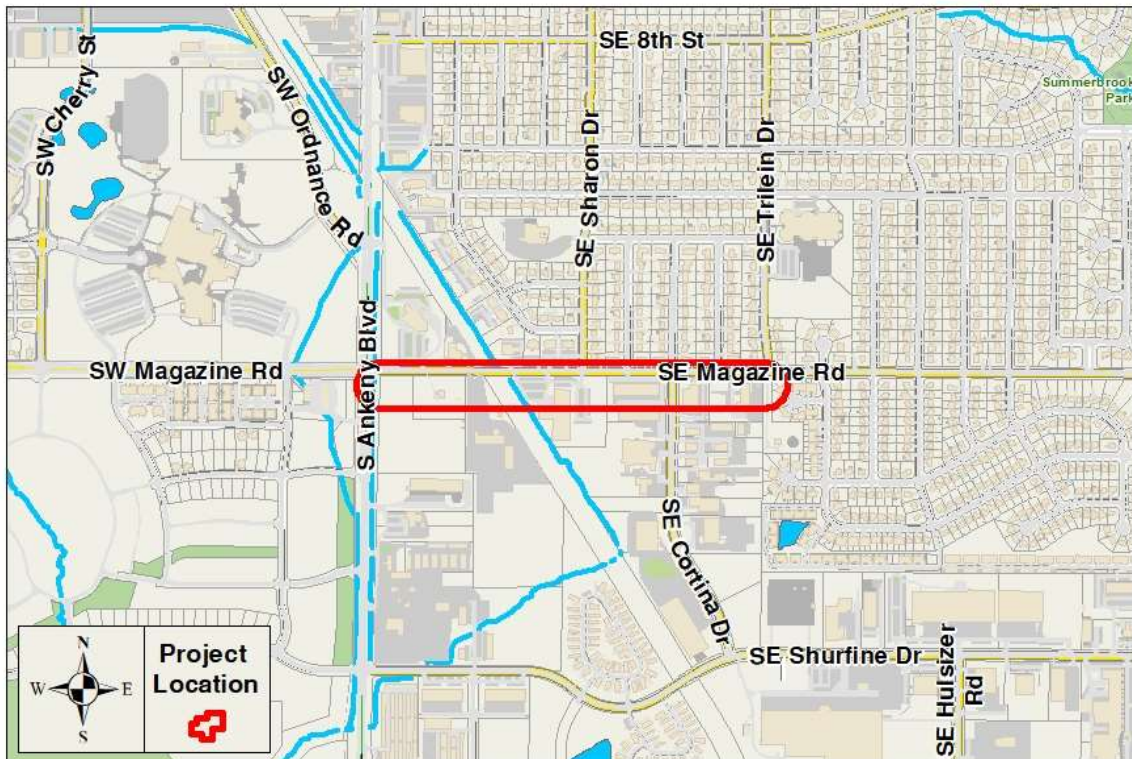
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-17-003

Project Name SE Magazine Road Water Main Improvements



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project # WTM-17-004
Project Name Irvinedale Drive Transmission Main-Phase 1

Description

Approximately 6,800 LF of 24" transmission water main along SW Oralabor Road and SW Irvinedale Drive to connect the existing 24" main at the SW Edgewood Lane and SW Oralabor Road intersection to the SW Water Tower. This project is currently being designed and will be constructed in 2019.

Justification

The purpose of this project is to increase water conveyance from the DMWW's Saylorville Water Treatment Plant north to the SW Water Tower. This is the first of three phases that will eventually connect to the NW Booster Station that will supply water to the entire northwest part of Ankeny.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Construction Services	200,000					200,000
Construction Costs	2,600,000					2,600,000
Total	2,800,000					2,800,000
Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds	2,800,000					2,800,000
Total	2,800,000					2,800,000

Budget Impact/Other

This is a new transmission main, it is not a replacement. The existing distribution mains will remain in service after this project is complete. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Because of the nature of a transmission main the water contained in them is almost constantly in motion, so the water quality should remain high. Less friction loss in larger pipes means pumps won't have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs because of less amp draw. Approximately 200 staff hours will be needed to fill and drain the tower, de-chlorinating, pressure testing, operating valves, and locating services. It will take almost 3,000,000 gallons to fill and flush the new main and fill SW Tower. Very close coordination between the contractor, City staff, and DMWW will be required to make the tower connection.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs	12,000					12,000
Utilities	7,000					7,000
Total	19,000					19,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

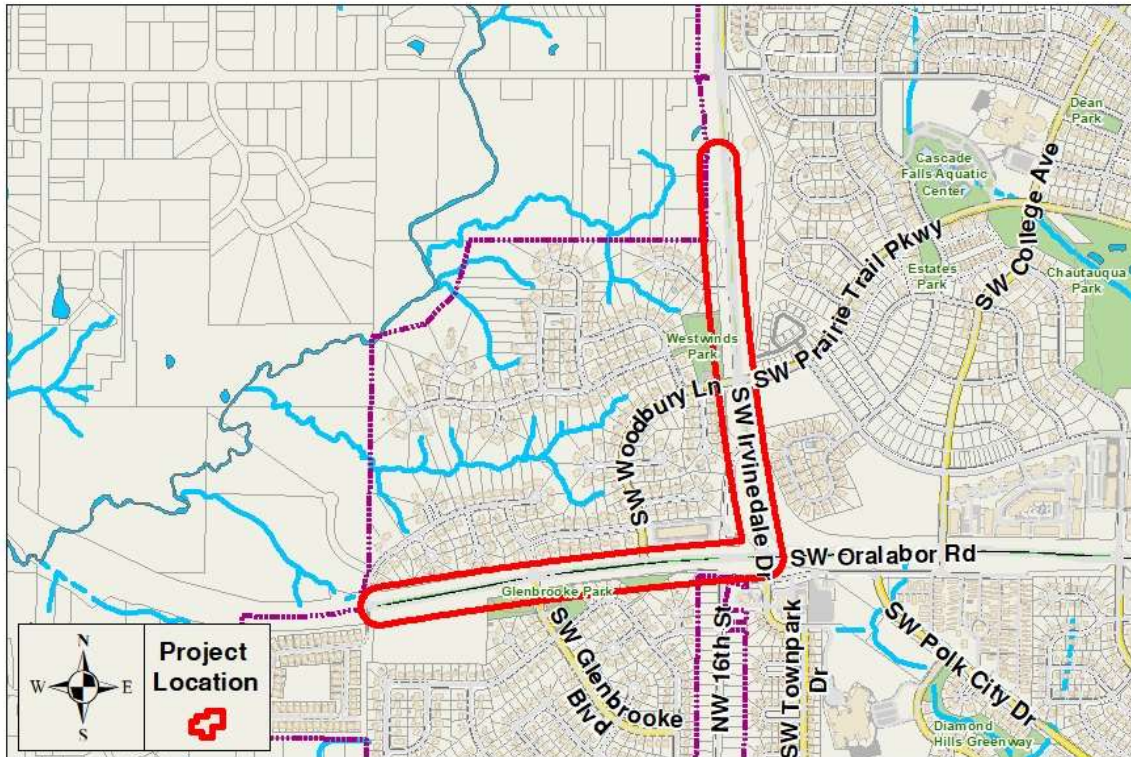
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-17-004

Project Name Irvinedale Drive Transmission Main-Phase 1



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Improvement
Useful Life 40 years
Category Water Mains

Project # WTM-17-005
Project Name NW State Street Water Main Improvements-Phase 1

Description

Install approximately 300 LF of 12" distribution water main on the west side of NW State Street from NW 9th Street to NW 10th Street. There is an existing 6" water main in this section that needs to be upsized.

Justification

The purpose of this project is to extend the 12" distribution water main along NW State Street south to NW 9th Street in order to remove a bottleneck during high water demand periods and improve fire flows northwest of this location.

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs	125,000					125,000
Total	125,000					125,000

Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds	125,000					125,000
Total	125,000					125,000

Budget Impact/Other

This project was included in the 2016 Water Study Master Plan and the operating impact will have negligible cost implications as it will mostly help the fire flows in the area. There will be approximately 50 hours of staff time during construction for de-chlorinating, pressure testing, operating valves, and locating services. It will also take about 9,000 gallons to fill and flush the new main.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs	3,000					3,000
Utilities	50					50
Total	3,050					3,050

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-17-005

Project Name NW State Street Water Main Improvements-Phase 1



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project # WTM-17-006
Project Name Irvinedale Drive Transmission Main-Phase 2

Description

Install approximately 8,000 LF of 24" transmission water main north along SW Irvinedale Drive from the SW Water Tower to approximately 500 feet north of West 1st Street, connecting both ends to existing 24" mains.

Justification

The purpose of this project is to increase water conveyance from the SW Water Tower north along SW Irvinedale Drive to West 1st Street. This is the second of three (3) phases that will eventually connect to the NW Booster Station that will supply water to the entire northwest part of Ankeny. The completion of this phase will improve the performance and operation of the overall water storage and distribution system to a point that we may be able to bypass the control valves at SW Oralabor Road and Franklin Drive and allow the East and Southwest pressure zones to operate as one.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	225,000					225,000
Engineering-Construction Services		225,000				225,000
Construction Costs		2,520,000				2,520,000
Land/ROW Acquisition	30,000					30,000
Total	255,000	2,745,000				3,000,000

Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds	255,000	2,745,000				3,000,000
Total	255,000	2,745,000				3,000,000

Budget Impact/Other

This is a new transmission main, it is not a replacement. The existing distribution mains will remain in service after this project is complete. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Because of the nature of a transmission main the water contained in them is almost constantly in motion, so the water quality should remain high. Less friction loss in larger pipes means pumps won't have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs because of less amp draw. Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. Additionally 100 hours of staff time will be needed during the design phase. It will take approximately 940,000 gallons to fill and flush the new main.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs	9,000	6,000				15,000
Utilities		2,200				2,200
Total	9,000	8,200				17,200

2019 - 2023 Capital Improvement Program

City of Ankeny, Iowa

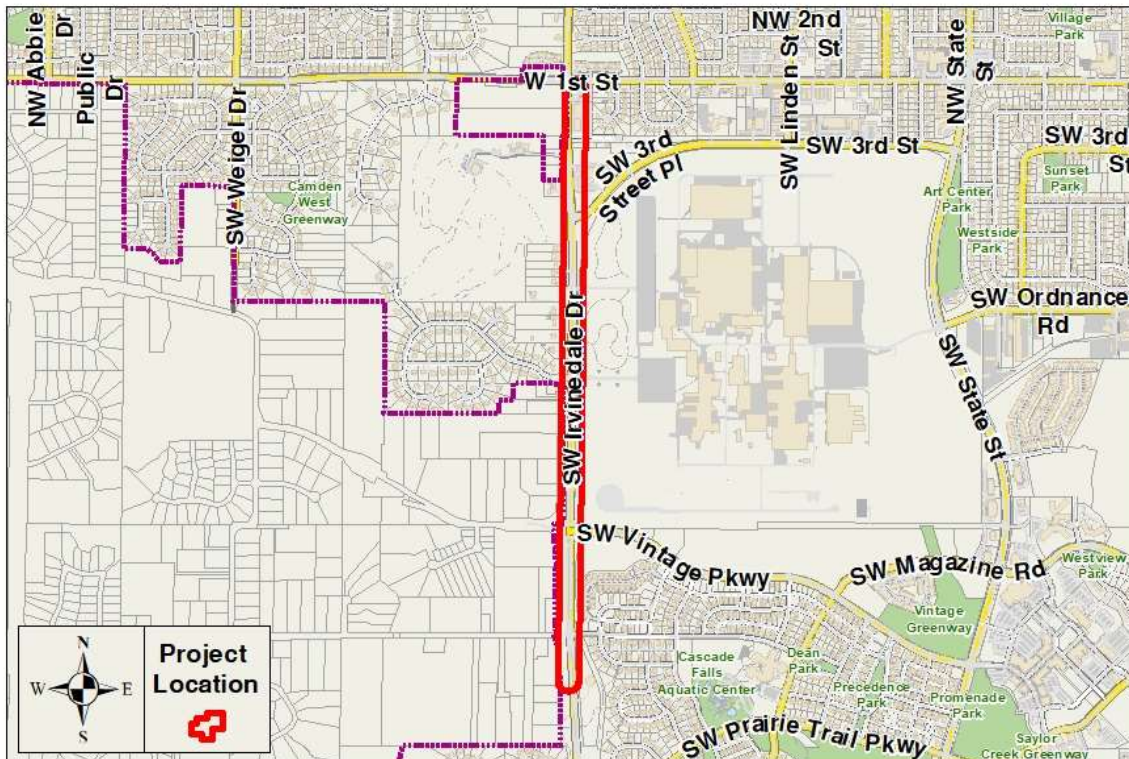
2019 *thru* 2023

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-17-006

Project Name Irvinedale Drive Transmission Main-Phase 2



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project # WTM-17-007
Project Name Irvinedale Drive Transmission Main-Phase 3

Description

Install approximately 3,200 LF of 24" transmission water main along NW Irvinedale Drive from NW 9th Street north to NW 18th Street, connecting both ends to existing 24" transmission mains.

Justification

The purpose of this project is to increase water conveyance from the SW Water Tower north along SW/NW Irvinedale Drive to the NW Booster Station. This is the third and final of three phases that connects the NW Booster Station to the water supply from DMWW Saylorville Water Treatment Plant. The completion of this phase will improve the performance and operation of the overall water system to a point that we will no longer need the DMWW connection at NW 5th Street and NW Weigel Drive.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design		125,000				125,000
Engineering-Construction Services			125,000			125,000
Construction Costs			1,250,000			1,250,000
Total		125,000	1,375,000			1,500,000

Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds		125,000	1,375,000			1,500,000
Total		125,000	1,375,000			1,500,000

Budget Impact/Other

This is a new transmission main, it is not a replacement. The existing distribution mains will remain in service after this project is complete. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Because of the nature of a transmission main the water contained in them is almost constantly in motion, so the water quality should remain high. Less friction loss in larger pipes means pumps won't have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs because of less amp draw. Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. Additionally 100 hours of staff time will be needed during design and engineering. It will take almost 380,000 gallons to fill and flush the new main.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs		9,000	6,000			15,000
Utilities			850			850
Total		9,000	6,850			15,850

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

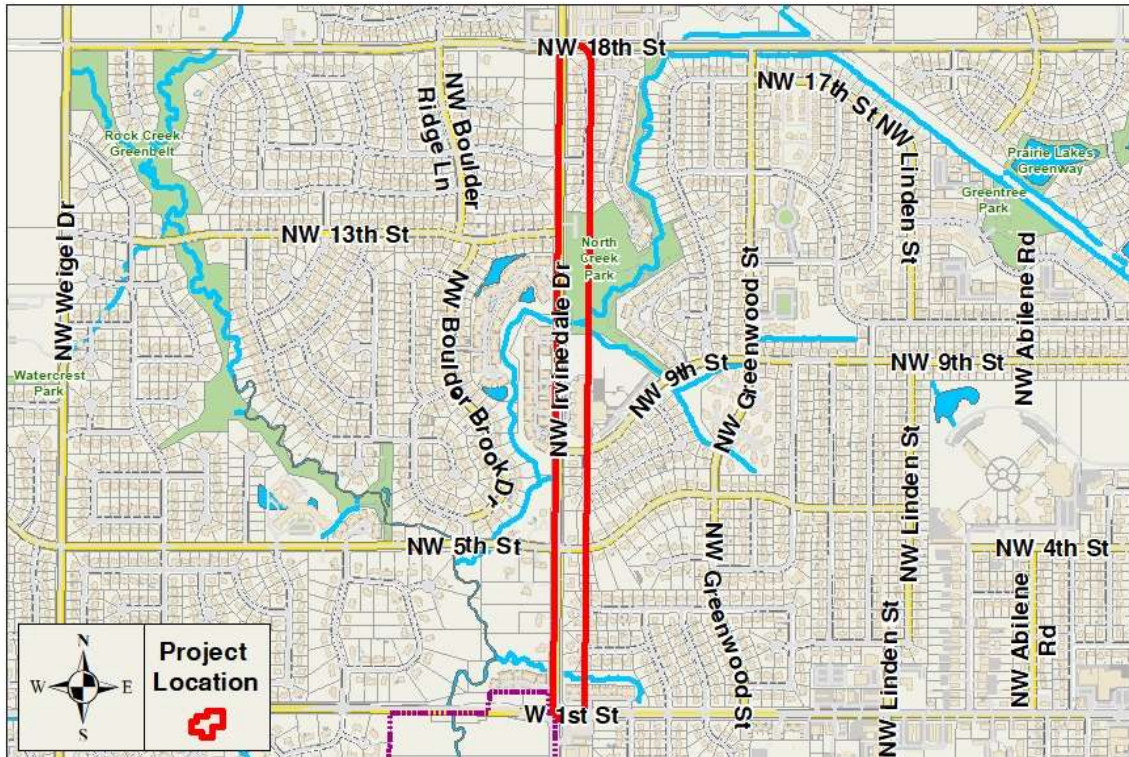
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-17-007

Project Name Irvinedale Drive Transmission Main-Phase 3



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Improvement
Useful Life 40 years
Category Water Mains

Project #	WTM-17-008
Project Name	Purchase Capacity in Saylorville Feeder Main

Description
Purchase the remaining capacity in the Saylorville Water Treatment Plant north feeder main, which is an existing 24” transmission main that extends north along NW 26th Street from NW 66th Avenue through our meter pit to SW Oralabor Road. This main will ultimately be extended north to the future NW Water Tower.

Justification
The purpose of this purchase is to provide additional transmission pipe capacity to support future water needs in the City. DMWW has requested that the City purchase the additional pipe capacity in 2018, so DMWW can use the revenue to construct a new feeder main to Polk City. The actual timing for purchasing the additional pipe capacity will need to be discussed further with DMWW and could be impacted through discussions of the regionalization of water.

Expenditures	2019	2020	2021	2022	2023	Total
Legal-General/Spec.			100,000			100,000
Assessment						
Other Costs			700,000			700,000
Total			800,000			800,000
Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds			800,000			800,000
Total			800,000			800,000

Budget Impact/Other
Additional source capacity for future growth and water demands. Since we are just purchasing additional capacity there are no expected costs for an operational impact.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project # WTM-17-009
Project Name NW Tower Transmission Main

Description

Complete the 24" transmission water main along NW Irvinedale Drive from the NW Booster Station to the future NW Water Tower site, located north of NW 36th Street. Several sections have been designed and installed by developers and cost shared ahead of this project being constructed.

Justification

The purpose of this project is to supply water to the future NW Water Tower. The end result is that the NW Pressure Zone will operate from the NW Tower elevation with a gradient of 1140 and not via pressure sensors at the booster station. This will provide more reliable water pressure and flow in that zone.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design			50,000			50,000
Engineering-Construction Services				50,000		50,000
Construction Costs				525,000		525,000
Total			50,000	575,000		625,000
Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds			50,000	575,000		625,000
Total			50,000	575,000		625,000

Budget Impact/Other

This is a new transmission main, it is not a replacement. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Less friction loss in larger pipes means pumps won't have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs because of less amp draw. Because this transmission main is going to have a large section of large diameter dead end, it will require more flushing until the tower is constructed and connected. Depending on how much of the main has been installed, staff hours will vary for de-chlorinating, pressure testing, operating valves, and locating services. Additionally, some amount of staff time will be needed during design and engineering. The amount of water to fill and flush the new main will also depend on how much pipe is in this phase.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

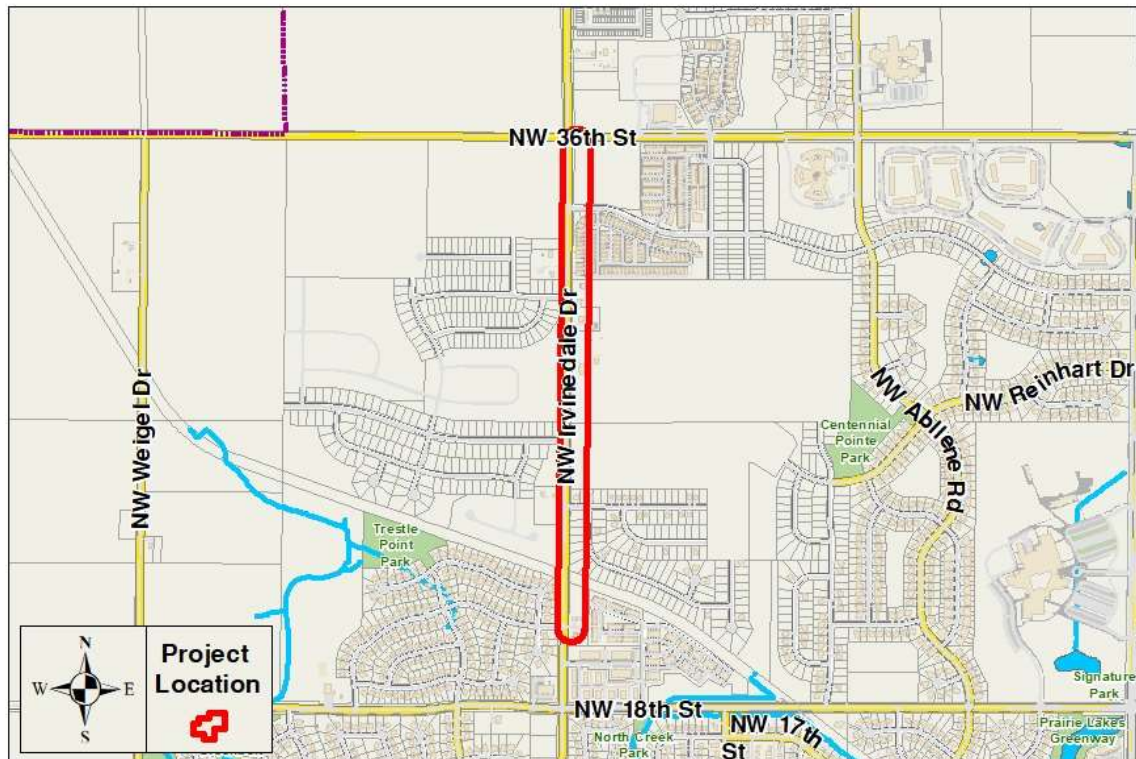
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-17-009

Project Name NW Tower Transmission Main



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 20 years
Category Water Mains

Project # WTM-18-001
Project Name South Ankeny Boulevard Transmission Main

Description

Install approximately 5,500 LF of 24" transmission main along South Ankeny Boulevard from SW Magazine Road south to SW Oralabor Road. This section of transmission main will complete the line from our Polk County meter pit to the Ash Tower.

Justification

This is the last section of 24" transmission main to loop both of our 24" connections to DMWW source water. This connects all of our water towers and the NW Booster station with redundant source water. This allows us to have non-interrupted source water if any of the pump stations or transmission mains are out of service.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design				160,000		160,000
Engineering-Construction Services					160,000	160,000
Construction Costs					1,680,000	1,680,000
Total				160,000	1,840,000	2,000,000

Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds				160,000	1,840,000	2,000,000
Total				160,000	1,840,000	2,000,000

Budget Impact/Other

This is a new transmission main, it is not a replacement. The existing distribution mains will remain in service after this project is complete. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Because of the nature of a transmission main the water contained in them is almost constantly in motion, so the water quality should remain high. Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. Additionally 100 hours of staff time will be needed during design and engineering. It will take almost 650,000 gallons to fill and flush the new main.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs				9,000	6,000	15,000
Utilities					1,500	1,500
Total				9,000	7,500	16,500

2019 - 2023 Capital Improvement Program

City of Ankeny, Iowa

2019 *thru* 2023

Department Water Utility
Contact Municipal Utilities Director

Project #	WTM-18-001
Project Name	South Ankeny Boulevard Transmission Main



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project # WTM-19-001
Project Name S Ankeny Blvd Water Main-Ordinance to SE 3rd St

Description

Install approximately 3,150 LF of 16" water main extension on South Ankeny Boulevard from just north of SW Ordinance Road to SE 3rd Street. This project will provide increased reliability within the transmission/distribution system within this area of the City. The project will utilize both open-cut and trenchless construction, in order to minimize disruption to the existing businesses along South Ankeny Boulevard.

Justification

Existing waterlines within the subject area have experienced frequent breaks due to age. Construction of this main will help maintain system pressure and reduce maintenance issues within the service area. Construction of this project will be in 2024 with an estimated cost of \$1,010,000.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design					90,000	90,000
Total					90,000	90,000

Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds					90,000	90,000
Total					90,000	90,000

Budget Impact/Other

This project can reduce the frequency of maintenance of the pumps at the Magazine Pump Station as they will not have to work as hard to get water into our distribution system. Less friction loss in larger diameter pipes means pumps will not have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs due to lower amp draw. Approximately 100 staff hours will be needed for staff review, and approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. Staff costs for plan review and construction will be approximately \$9,000 and \$6,000, respectively. It will also take about 165,000 gallons to fill and flush the new main at a cost of \$400. All of these costs will be incurred in 2024 during construction.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs					9,000	9,000
Total					9,000	9,000

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

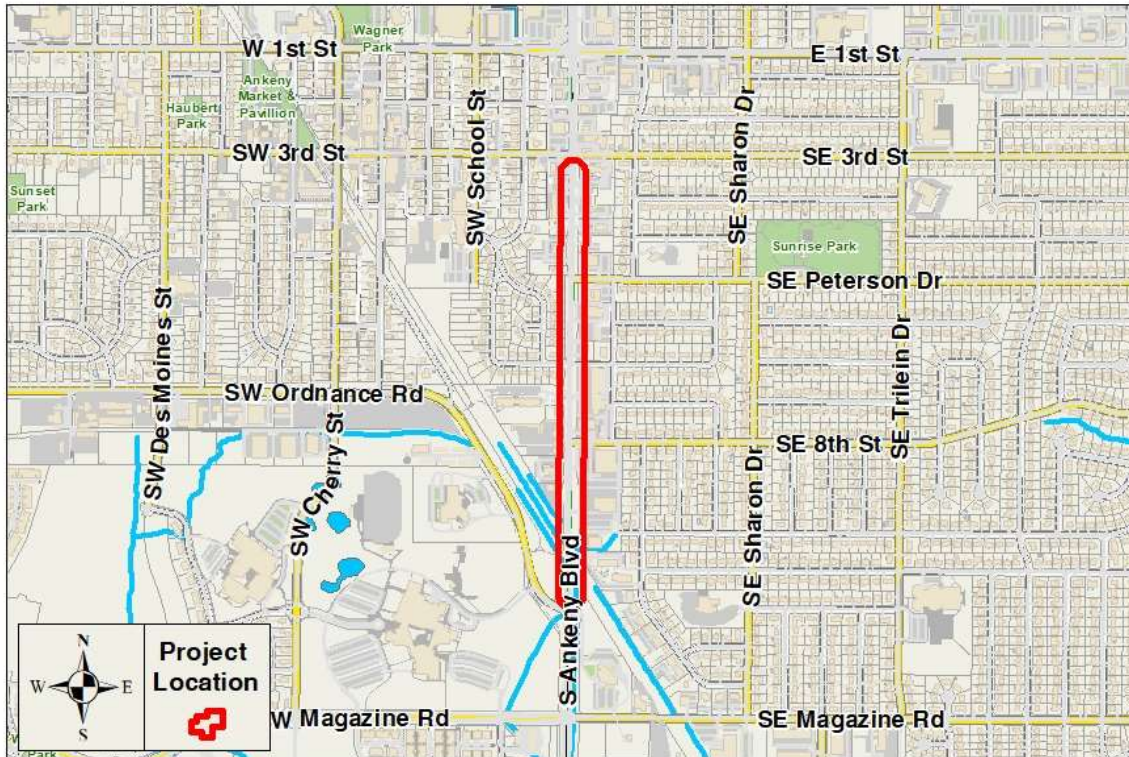
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-19-001

Project Name S Ankeny Blvd Water Main-Ordinance to SE 3rd St



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Improvement
Useful Life 40 years
Category Water Mains

Project # WTM-19-002
Project Name NW Irvinedale Dr Water Main-Trestle to 36th

Description

This project will include the installation of approximately 920 LF of 24" water main on the west side of NW Irvinedale Drive from the north plat line of Trestle Ridge Estates, Plat 3 to the south side of NW 36th Street.

Justification

This project will fund the cost share for oversizing water main with the future development between Trestle Ridge Estates, Plat 3 and NW 36th Street. The 24" water main was identified in the water study as a necessity for connection from the proposed Booster Station to a future water tower north of NW 36th Street to be constructed in 2022. There is a cost incurred by cost sharing this project with the developer, but the savings in the long run will outweigh the costs incurred now.

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs		100,000				100,000
Total		100,000				100,000

Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds		100,000				100,000
Total		100,000				100,000

Budget Impact/Other

Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. It will also need about 110,000 gallons of water to fill and flush the new main

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs		6,000				6,000
Utilities		250				250
Total		6,250				6,250

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

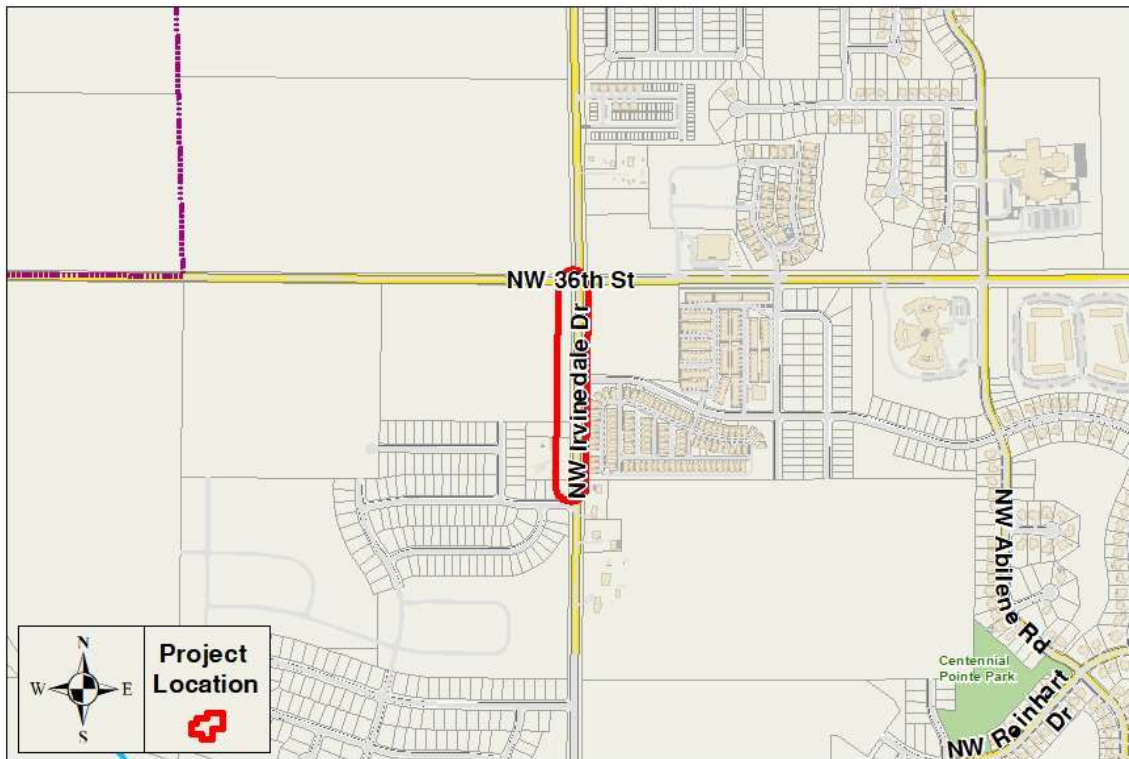
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-19-002

Project Name NW Irvinedale Dr Water Main-Trestle to 36th



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Improvement
Useful Life 40 years
Category Water Mains

Project #	WTM-19-003
Project Name	NW State Street Water Main Improvements-Phase 2

Description

Install approximately 2,500 LF of 12” distribution water main on the west side of NW State Street from West 1st Street to NW 9th Street. There is an existing 6” water main in this section that needs to be upsized.

Justification

The purpose of this project is to connect the 12” distribution water main along NW State Street from West 1st Street to NW 9th Street in order to remove a bottleneck during high water demand periods and improve fire flows northwest of this location. Construction of this water main would occur in 2024 with an estimate of \$658,000 including construction observation.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design					42,000	42,000
Total					42,000	42,000
Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds					42,000	42,000
Total					42,000	42,000

Budget Impact/Other

This project was included in the 2016 Water Study Master Plan and the operating impact will have negligible cost implications as it will mostly help the fire flows in the area. There will be approximately 50 hours of staff review time during design.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs					3,000	3,000
Total					3,000	3,000

2019 - 2023 Capital Improvement Program

2019 thru 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

Project #	WTM-19-003
Project Name	NW State Street Water Main Improvements-Phase 2



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Improvement
Useful Life 40 years
Category Water Mains

Project # WTM-19-004
Project Name NW Irvinedale Drive Water Main Improvements

Description

Installation of approximately 850 LF of 12" distribution water main on the east side of NW Irvinedale Drive from the north side of NW 36th Street to the existing 12" line at the southwest corner of Villas at Brinmore Estates Plat 1.

Justification

The purpose of this project is to connect the 12" distribution water main on the east side of Irvinedale in order to provide a looped water main system for the development north of NW 36th Street. This loop will minimize the number of residents and businesses impacted if there was a water main break. This project will also install a 24" x 12" cross for the future 24" transmission main to the NW Water Tower.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design	12,000					12,000
Construction Costs	111,000					111,000
Land/ROW Acquisition	2,000					2,000
Total	125,000					125,000

Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds	125,000					125,000
Total	125,000					125,000

Budget Impact/Other

This project was included in the 2016 Water Study Master Plan and the operating impact will have negligible cost implications as it will mostly help the fire flows in the area and provide a looped water main system. There will be approximately 50 hours of engineering staff review time during design and construction. There will be approximately 50 hours of staff time during construction for de-chlorinating, pressure testing, operating valves, and locating services. It will also take about 25,000 gallons to fill and flush the new main.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs	7,000					7,000
Utilities	100					100
Total	7,100					7,100

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

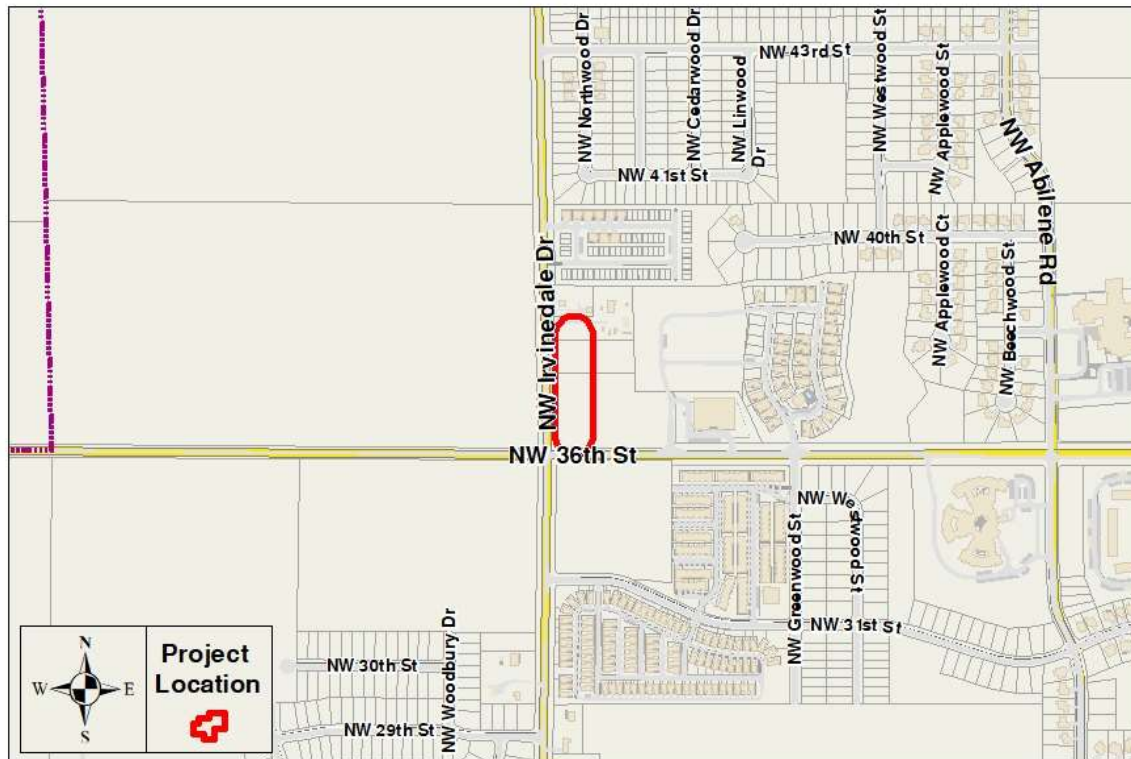
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-19-004

Project Name NW Irvinedale Drive Water Main Improvements



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Replacement
Useful Life 40 years
Category Water Towers/Storage

Project # WTT-17-002
Project Name Aquifer Storage and Recovery #1 Replacement

Description

Complete a siting study to determine alternatives and the preferred location for a new 1.5 MGD Aquifer Storage and Recovery (ASR) and associated water main for connecting it to the distribution system. The project will ultimately include land acquisition (if necessary), design and construction of the ASR and water main connection.

Justification

The purpose of this project is to replace the existing ASR #1 on SW Elm Street, because additional supply capacity is needed to meet high water demand periods and the existing ASR #1 is reaching the end of its useful life and it will take a few years of operation to get a recovery rate of 85% or better. This is another project that could be affected by the ongoing discussions of regionalization of water.

Expenditures	2019	2020	2021	2022	2023	Total
Consultant			250,000			250,000
Engineering-Design				250,000		250,000
Construction Costs				3,150,000		3,150,000
Land/ROW Acquisition				350,000		350,000
Total			250,000	3,750,000		4,000,000
Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds			250,000	3,750,000		4,000,000
Total			250,000	3,750,000		4,000,000

Budget Impact/Other

Since this is a replacement of an existing facility, the O&M cost should remain near current levels if not slightly less based on age of equipment. The siting study may require administrative staff time, working with the consultant on available parcels either City owned or ones available to purchase. The design phase will require staff review. Connecting to the existing water distribution system will require field staff to operate valves and coordinate testing of new mains. Until a site is chosen and we know how much main is being installed, we won't be able estimate financial impacts.

2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Maintenance
Useful Life 20 years
Category Water Towers/Storage

Project #	WTT-19-001
Project Name	SW Water Tower Interior Repaint

Description
We are having issues with paint peeling in sheets off of the interior of the SW Water Tower. We will be working with the contractor and consultant from the original project, but anticipate the necessity to repaint the interior of the water tower.

Justification
This project is needed to maintain the ability to provide safe and potable drinking water to Ankeny residents. Midco Diving & Marine Services completed their inspection of the SW Water Tower and reported the interior paint peeling off in sheets and settling at the bottom of the tank. We have made contact with HR Green and directed them to reach out to the original contractor to begin the process of determining what went wrong and what it will take to get it repainted.

Expenditures	2019	2020	2021	2022	2023	Total
Construction Costs	450,000					450,000
Total	450,000					450,000

Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds	450,000					450,000
Total	450,000					450,000

Budget Impact/Other
The operating impact will include staff time to coordinate with original consultant and contractor to get the interior surfaces of the SW Water Tower repainted. It will take approximately 100 hours of staff time to coordinate the operation of our distribution system while the tower is out of service. It will also take approximately 100 hours of time to negotiate the work. It is also estimated that 2,500,000 gallons of water will be used for flushing the tower.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs	15,000					15,000
Utilities	5,600					5,600
Total	20,600					20,600

2019 - 2023 Capital Improvement Program

City of Ankeny, Iowa

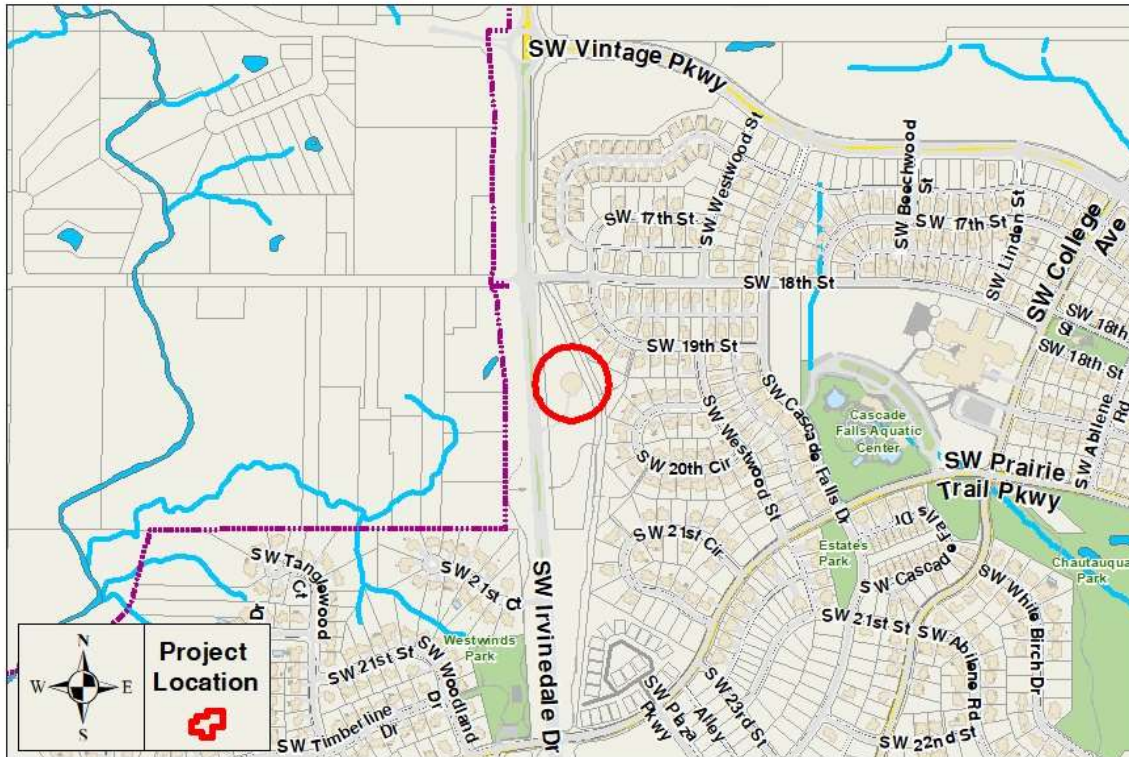
2019 *thru* 2023

Department Water Utility

Contact Municipal Utilities Director

Project # WTT-19-001

Project Name SW Water Tower Interior Repaint



2019 - 2023 Capital Improvement Program

2019 *thru* 2023

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Towers/Storage

Project # WTT-19-002
Project Name Future NW Water Tower

Description

Construct a new 2.25 million gallon water tower on the northwest side of the City to provide additional water storage and a more reliable water pressure and flow to the northwest side of the City.

Justification

The site for this future water tower, located just north of NW 36th Street on the east side of NW Irvinedale Drive, was selected and purchased in 2018. This project was originally going to be a joint venture with Polk City and DMWW, but this water tower will now just be for the City of Ankeny.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering-Design				250,000		250,000
Engineering-Construction Services					250,000	250,000
Construction Costs					7,500,000	7,500,000
Total				250,000	7,750,000	8,000,000

Funding Sources	2019	2020	2021	2022	2023	Total
Water Revenue Bonds				250,000	7,750,000	8,000,000
Total				250,000	7,750,000	8,000,000

Budget Impact/Other

This project will provide some savings in electricity and maintenance of the pumps at the NW Booster Station as they will not need to work as hard to maintain pressure within the northwest portion of the City as the tower will reduce fluctuation in pressure based on the elevation of the water in the tank versus the continuous change in pressure from the pumps. The design phase would require an approximately 100 hours of staff time for review. Field staff will be needed toward the completion of construction with the filling and flushing of mains and the new NW Water Tower. Operating valves and flushing the system then changing the booster station over to level control from pressure control would take approximately 150 hours and 6,000,000 gallons of water.

Budget Items	2019	2020	2021	2022	2023	Total
Personnel Costs				9,000	9,000	18,000
Utilities					15,000	15,000
Total				9,000	24,000	33,000

City of Ankeny, Iowa

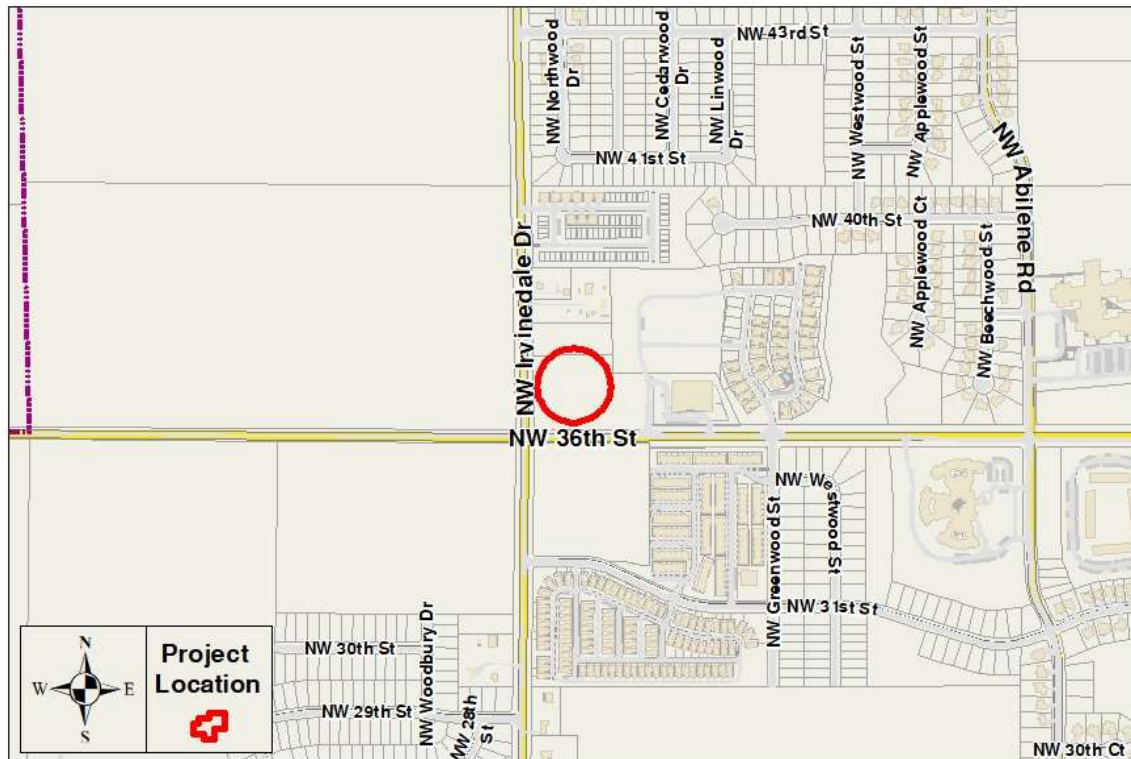
2019 *thru* 2023

Department Water Utility

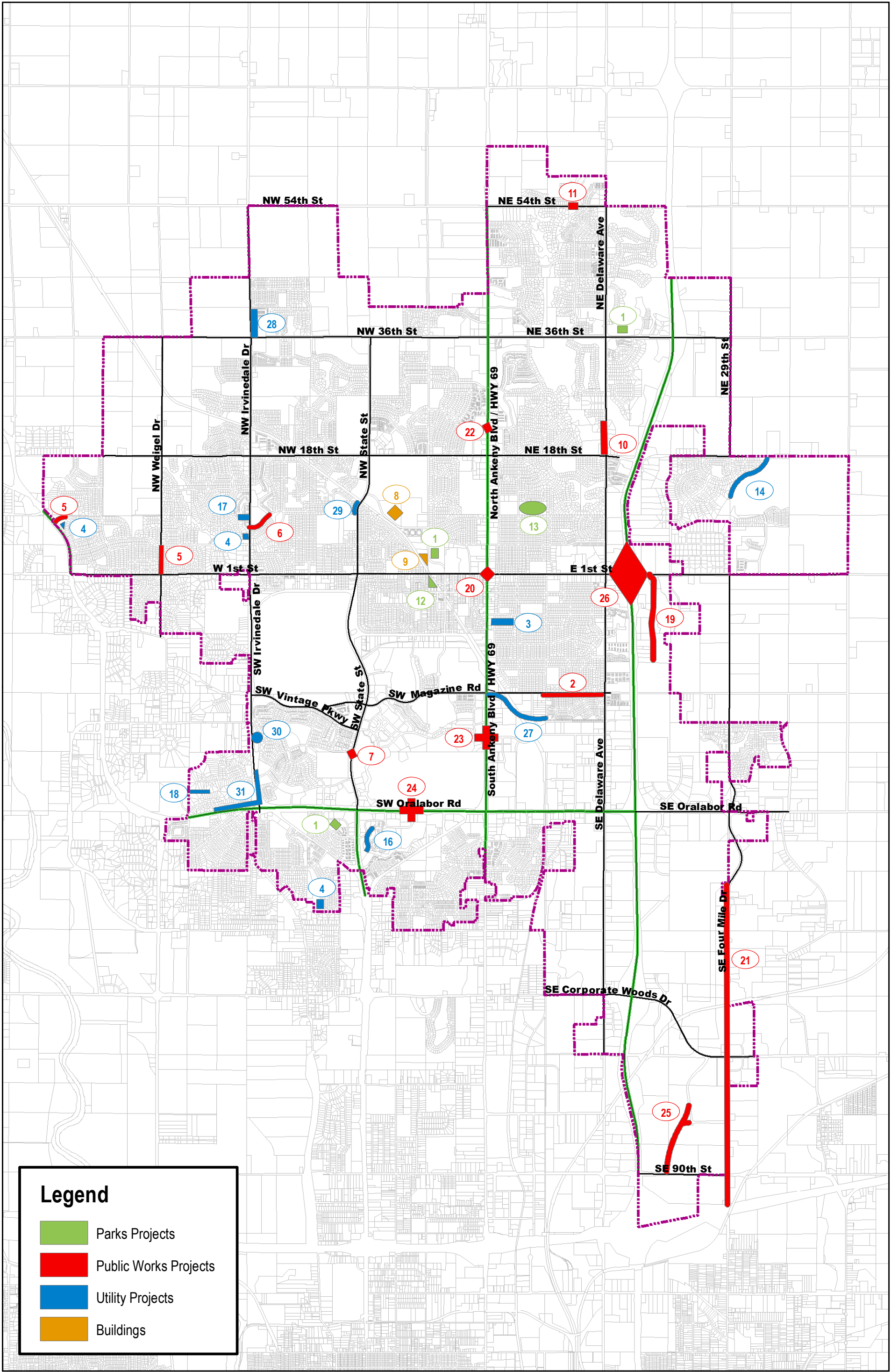
Contact Municipal Utilities Director

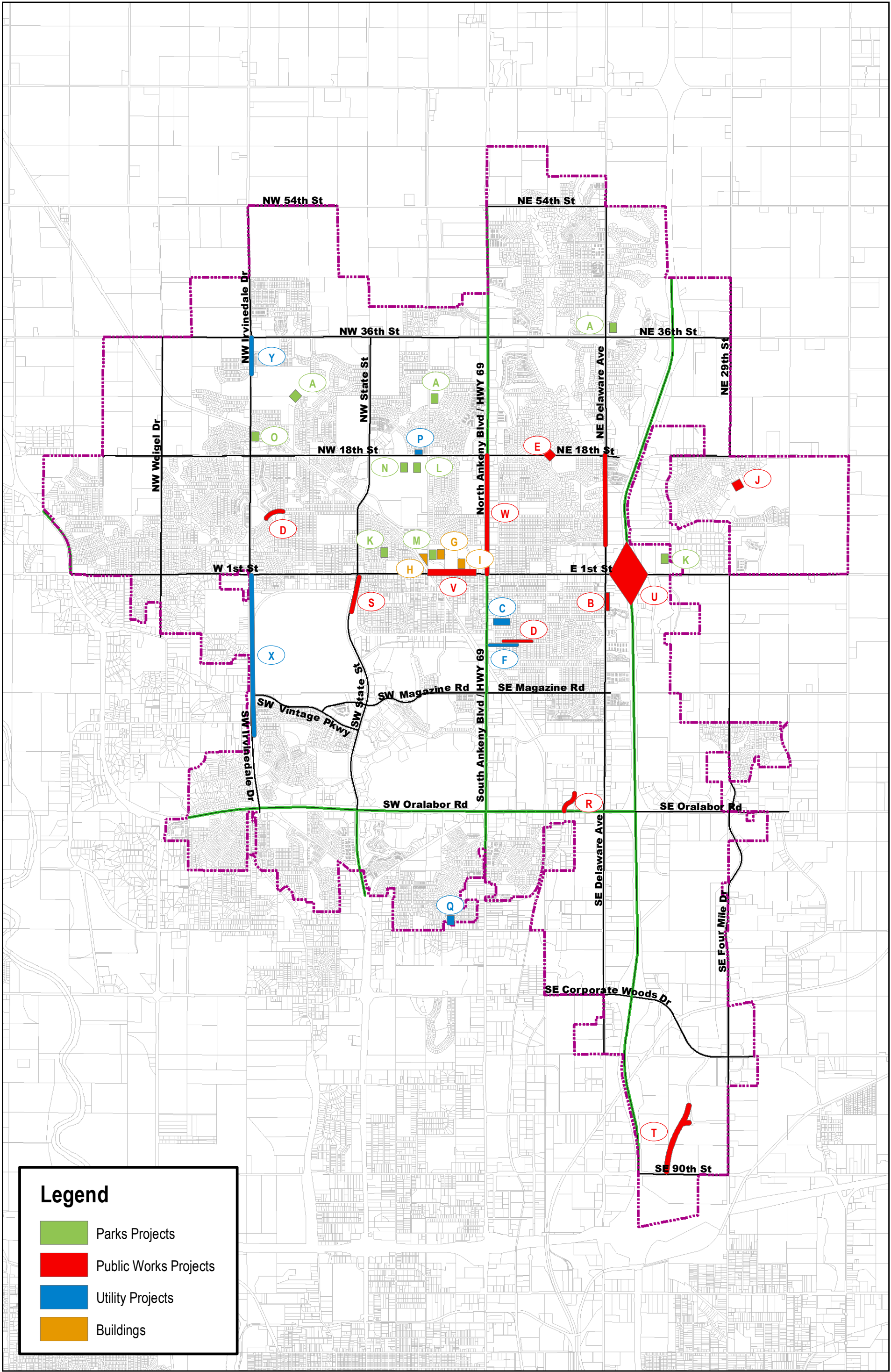
Project # **WTT-19-002**

Project Name **Future NW Water Tower**



Section 5







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