

CITY OF ANKENY, IOWA | CALENDAR YEARS 2020-2024



CAPITAL IMPROVEMENT PROGRAM 2020-2024

2020-2024

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 2021 budget. It includes the costs associated with the 2020 capital projects, the first year of the 2020-2024 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 2020-2024 Capital Improvement Program reflects a \$13,958,637 increase in project expenditures over last year's program. An increase in the storm water and streets categories is being offset by a decrease in the Prairie Trail category. The storm water category has grown as a result of the June 30, 2018 flash flooding event and the recently completed Ankeny Storm Water Management Study and Master Plan. The Tributary to Four Mile Creek Channel Stabilization is the largest project in the storm water category. The largest projects in the streets category include the NE Delaware Avenue Reconstruction from NE 5th Street to NE 18th Street and the West 1st Street Widening and Improvements – Phase 1. There are no Prairie Trail projects in the current five-year program.

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 2020-2024 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 2020 capital improvement projects will become part of the adopted 2021 budget, the emphasis in the capital improvement process is on the 2020 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 2020-2024, the capital improvement program totals \$149,465,870. Of this total, 44% is identified for transportation projects, 37% for municipal utilities (water, sewer and storm water) projects, 11% for municipal buildings, 4% for sidewalks and trails and 4% for parks.

Capital budget requirements for 2020 total \$39,211,203. Capital spending authorizations by project category for the upcoming year include:

Bridge/Box Culvert	\$935,000	2.38%
Municipal Buildings	11,237,700	28.66%
Parks	3,905,837	9.96%
Sewer	1,856,000	4.73%
Sidewalks/Trails	500,000	1.28%
Storm Water	1,335,000	3.41%
Streets	13,986,666	35.67%
Traffic Control	1,160,000	2.96%
Water	4,205,000	10.72%
Water Towers/Storage	90,000	0.23%

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 2020-2024 Capital Improvement Program with 69% 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 2020-2024 Capital Improvement Program.

Funding Source	Revenue (\$)	% of Revenue
Property Taxes	\$46,600,833	31%
Grants and Intergovernmental	13,511,446	9%
Tax Increment Financing	5,773,554	4%
Municipal Utilities Revenues	52,280,000	35%
Miscellaneous Revenues	31,300,037	21%
Total	\$149,465,870	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 second largest source of revenue for the capital improvement program representing \$46,600,833, or 31%, 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 \$13,511,446 to be received from grant

awards or intergovernmental assistance, representing 9% of all revenue sources. The projects most dependent upon grants and intergovernmental support are the Senior Community Center, West 1st Street Widening and Improvements – Phase 1 and the High Trestle Trail Extension from SE Magazine Road to SE Oralabor Road. Staff has secured \$3.50 million from Polk County for the Senior Community Center, \$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 \$700,000 from the Des Moines Area MPO for the High Trestle Trail Extension from SE Magazine Road to SE Oralabor Road.

For 2020, staff has secured \$5,446,446 in participation from the Iowa DOT and Polk County for various projects. An additional \$110,000 is anticipated from the Federal Emergency Management Agency (FEMA) for the North Creek Channel Flood Repair project that resulted from the June 30, 2018 flash flooding event.

TAX INCREMENT FINANCING

Of the five funding sources, \$5,773,554, or 4%, of general obligation debt is being financed through TIF abatements. The SE Hulsizer Road Realignment project is planned for construction in 2020. Final design and property acquisition for the West 1st Street Widening and Improvements – Phase 1 project is planned for 2020, with construction to follow in 2021 and 2022.

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 \$52,280,000, or 35%, of the capital improvement program financial plan.

Projects within the annual utility programs for 2020 include:

- SE Eastlawn Area utility improvements;
- Sanitary sewer spot repairs, manhole repairs and slip lining;
- Storm water repair projects – Saylor Creek Repairs and Stabilization, Triangle Detention Basin Outlet Modification, and Magazine Road Storm Water Improvements; and
- SE 8th Street from SE Oak Drive to SE Sharon Drive Water Main Improvements

Major utility projects planned for 2020 include the NW Northlawn Area Sanitary Sewer Improvements, Wildflower Detention Basin Improvements, North Creek Channel Flood Repair, SE Magazine Road Water Main Improvements and Irvinedale Drive Transmission Main – Phase 2.

MISCELLANEOUS REVENUES

The financial plan includes contributions from miscellaneous sources totaling \$31,300,037, or 21%, of the 2020-2024 Capital Improvement Program. This includes Ankeny Community Foundation contributions, capital project fund cash balances, capital reserve fund cash balances, general fund cash balances, hotel/motel tax fund revenues, park dedication fund cash balances, private contributions, road use tax fund revenues and special assessments. Capital project fund cash balances, capital reserve fund cash balances, private contributions, and road use tax fund revenues total \$28.67 million or 92% 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 2020 through 2024 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

2020-2024 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	\$910,000	\$550,000							\$360,000					
Annual Sidewalk/Trail Construction Program	SDW-00-001	\$350,000	\$100,000							\$125,000			\$125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$1,045,000								\$1,045,000					
Annual Storm Water Replacement Program	STM-00-001	\$275,000								\$275,000					
Annual PCC Street Patching Program	STR-00-001	\$940,000	\$940,000												
Annual Asphalt Street Resurfacing Program	STR-00-002	\$190,000	\$190,000												
Annual Pavement Preservation Program	STR-00-003	\$250,000	\$250,000												
Annual Street Replacement Program	STR-00-004	\$1,800,000	\$815,000										\$985,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$1,160,000	\$1,065,000						\$95,000						
Annual Water Main Replacement Program	WTM-00-001	\$690,000								\$690,000					
Ankeny Public Services Library Remodel	BLD-16-001	\$4,864,000								\$4,700,000				\$164,000	
Park Maintenance Facility Renovations	BLD-18-001	\$625,000												\$625,000	
Senior Community Center	BLD-18-003	\$4,876,000							\$3,500,000	\$350,000				\$1,026,000	
HVAC Replacement - City Hall	BLD-18-004	\$217,000								\$98,000				\$119,000	
Art Center Foundation Repairs	BLD-19-001	\$175,000												\$175,000	
City Hall Council Chambers Renovation	BLD-20-001	\$330,700												\$330,700	
Fire Station No. 4	BLD-20-002	\$150,000												\$150,000	
NE Four Mile Drive RCB Culvert - Deer Creek	BRG-17-001	\$935,000								\$935,000					
Ankeny Market & Pavilion	PRK-13-001	\$36,837										\$36,837			
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	\$245,000								\$245,000					
High Trestle Trail Trailhead and Parking Lot	PRK-18-001	\$325,000	\$325,000												
Dog Park Parking Lot Expansion	PRK-20-003	\$125,000	\$125,000												
Signature Park	PRK-20-006	\$1,850,000												\$1,850,000	
Ankeny Kirkendall Public Library Playground	PRK-20-007	\$180,000								\$180,000					
High Trestle Trail Extension - SE Magazine Road to SE Oralabor Road	SDW-16-001	\$150,000	\$150,000												
Sanitary Sewer Repairs	SNS-19-001	\$272,000								\$272,000					
SE 3rd Street Trunk Sewer Extension - SE Grant Street to SE Sharon Drive	SNS-20-002	\$104,000								\$104,000					
West Outfall Basin Sanitary Trunk Sewer Improvements	SNS-20-003	\$175,000								\$175,000					
NW Northlawn Area Sanitary Sewer Improvements	SNS-20-004	\$260,000								\$260,000					
Wildflower Detention Basin Improvements	STM-18-002	\$480,000		\$480,000											
North Creek Channel Flood Repair	STM-19-002	\$420,000		\$241,000					\$110,000	\$69,000					
SE 3rd Street Area Storm Sewer Improvements	STM-20-006	\$160,000		\$160,000											
East 1st Street and I-35 Interchange Reconstruction	STR-11-004	\$1,716,666	\$966,666				\$750,000								
NW 18th Street Extension - NW Weigel Drive to NW Spruce Drive	STR-16-002	\$460,000	\$460,000												
West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$410,000			\$410,000										
North Ankeny Boulevard Landscaping and Median Improvements	STR-18-001	\$100,000	\$50,000								\$50,000				
South Ankeny Boulevard and SW Oralabor Road Safety Studies	STR-18-006	\$30,000											\$30,000		
SE Hulsizer Road Realignment	STR-18-007	\$3,065,000			\$2,213,554				\$851,446						
SW State Street Reconstruction - SW Ordnance Road to West 1st Street (NB Lanes)	STR-19-005	\$1,275,000	\$1,275,000												
South Ankeny Boulevard and Magazine Road Safety Improvements	STR-19-007	\$60,000	\$60,000												
SE Crosswinds Drive/SE 77th Street Improvements	STR-19-008	\$2,820,000							\$1,000,000						\$1,820,000
West 1st Street Joint Utility Trench	STR-20-001	\$595,000	\$495,000												\$100,000
NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard	STR-20-005	\$40,000	\$40,000												
SE Delaware Avenue Widening	STR-20-006	\$15,000	\$15,000												
SE Delaware Avenue and SE Corporate Woods Drive Intersection Improvements	STR-20-007	\$60,000	\$60,000												
SW Oralabor Road and SW State Street Safety Improvements	STR-20-008	\$35,000	\$35,000												
West 1st Street Temporary Traffic Signals	STR-20-009	\$125,000	\$125,000												
SE Magazine Road Water Main Improvements	WTM-17-003	\$635,000								\$635,000					
Irvinedale Drive Transmission Main - Phase 2	WTM-17-006	\$2,500,000					\$2,500,000								
Irvinedale Drive Transmission Main - Phase 3	WTM-17-007	\$160,000								\$160,000					
NW Irvinedale Drive Water Main - Trestle Ridge Estates Plat 3 to NW 36th Street	WTM-19-002	\$100,000					\$100,000								
NW 36th Street Water Main - NW Irvinedale Drive to NW Weigel Drive and NW Weigel Drive Water Main - NW 36th Street to NW 18th Street	WTM-20-001	\$120,000								\$120,000					
SW Water Tower Interior Repaint	WTT-19-001	\$90,000								\$90,000					
		\$39,211,203	\$8,325,666	\$881,000	\$2,623,554	\$0	\$3,350,000	\$0	\$5,556,446	\$10,888,000	\$50,000	\$36,837	\$1,140,000	\$4,439,700	\$1,920,000

2020 Bond Issue Project Costs	\$11,830,220
Cost of Issuance	\$179,780
Projected 2020 Bond Issue Total	\$12,010,000

2020-2024 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	\$350,000	\$225,000										\$125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$720,000								\$720,000					
Annual Storm Water Replacement Program	STM-00-001	\$250,000								\$250,000					
Annual PCC Street Patching Program	STR-00-001	\$1,115,000	\$1,115,000												
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	\$1,450,000											\$1,450,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$895,000	\$895,000												
Annual Water Main Replacement Program	WTM-00-001	\$890,000								\$890,000					
Park Maintenance Facility Renovations	BLD-18-001	\$625,000												\$625,000	
Community Entrance Signs	BLD-18-002	\$45,000									\$45,000				
Senior Community Center	BLD-18-003	\$3,800,000												\$2,800,000	\$1,000,000
HVAC Replacement - City Hall	BLD-18-004	\$560,000												\$560,000	
Older Parks Renovation Plan	PRK-17-003	\$150,000								\$150,000					
High Trestle Trail Extension - SE Magazine Road to SE Oralabor Road	SDW-16-001	\$1,825,000	\$925,000						\$900,000						
SE 3rd Street Trunk Sewer Extension - SE Grant Street to SE Sharon Drive	SNS-20-002	\$1,296,000								\$1,296,000					
West Outfall Basin Sanitary Trunk Sewer Improvements	SNS-20-003	\$1,275,000								\$1,275,000					
High Trestle Trail Channel Stabilization - Phase 1	STM-20-002	\$160,000		\$160,000											
Tributary to Four Mile Creek Channel Stabilization - East of St. James Place	STM-20-004	\$25,000		\$25,000											
SE 3rd Street Area Storm Sewer Improvements	STM-20-006	\$760,000		\$360,000						\$400,000					
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	\$250,000	\$250,000												
NW 18th Street Extension - NW Weigel Drive to NW Spruce Drive	STR-16-002	\$4,000,000	\$2,886,000												\$1,114,000
West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$2,940,000			\$1,425,000				\$1,515,000						
North Ankeny Boulevard Landscaping and Median Improvements	STR-18-001	\$740,000	\$370,000								\$370,000				
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							\$150,000				\$130,000		
NW 26th Street Widening	STR-20-002	\$250,000	\$250,000												
NW 18th Street Reconstruction - NW Ash Drive to North Ankeny Boulevard	STR-20-004	\$200,000	\$200,000												
NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard	STR-20-005	\$275,000	\$275,000												
SE Delaware Avenue Widening	STR-20-006	\$75,000	\$75,000												
SE Delaware Avenue and SE Corporate Woods Drive Intersection Improvements	STR-20-007	\$540,000	\$540,000												
High Trestle Trail Transmission Main	WTM-17-001	\$250,000					\$250,000								
Irvinedale Drive Transmission Main - Phase 3	WTM-17-007	\$1,940,000					\$1,940,000								
NW 36th Street - NW Irvinedale Drive to NW Weigel Drive and NW Weigel Drive - NW 36th Street to NW 18th Street	WTM-20-001	\$1,355,000					\$1,355,000								
SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002	\$112,000					\$112,000								
Aquifer Storage and Recovery #1 Replacement	WTT-17-002	\$300,000					\$300,000								
		\$31,139,667	\$9,397,667	\$545,000	\$1,425,000	\$0	\$3,957,000	\$0	\$2,565,000	\$5,031,000	\$415,000	\$0	\$1,705,000	\$3,985,000	\$2,114,000

2021 Bond Issue Project Costs	\$11,367,667
Cost of Issuance	\$167,333
Projected 2021 Bond Issue Total	\$11,535,000

2020-2024 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	\$350,000	\$225,000										\$125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$1,155,000								\$1,155,000					
Annual Storm Water Replacement Program	STM-00-001	\$250,000								\$250,000					
Annual PCC Street Patching Program	STR-00-001	\$1,050,000	\$1,050,000												
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	\$950,000	\$740,000										\$210,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$485,000	\$485,000												
Annual Water Main Replacement Program	WTM-00-001	\$650,000								\$650,000					
Community Entrance Signs	BLD-18-002	\$80,000									\$80,000				
Hawkeye Park Sports Complex - Pickleball Courts	PRK-20-004	\$330,000	\$330,000												
Oralabor Gateway Trail - SW State Street Overpass	SDW-19-001	\$210,000	\$210,000												
Otter Creek Trunk Sewer - Phase 3	SNS-11-001	\$325,000								\$325,000					
Four Mile Creek Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	\$55,000		\$55,000											
High Trestle Trail Channel Stabilization - Phase 1	STM-20-002	\$1,190,000		\$1,190,000											
Tributary to Four Mile Creek Channel Stabilization - East of St. James Place	STM-20-004	\$280,000		\$280,000											
Westlawn Area Storm Sewer Improvements	STM-20-005	\$35,000		\$35,000											
SE 3rd Street Area Storm Sewer Improvements	STM-20-006	\$760,000		\$360,000						\$400,000					
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	\$725,000								\$725,000					
West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$3,240,000			\$1,725,000				\$1,515,000						
North Ankeny Boulevard Landscaping and Median Improvements	STR-18-001	\$215,000	\$107,500								\$107,500				
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	\$75,000	\$75,000												
Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005	\$100,000	\$100,000												
NW 36th Street and NW State Street Interim Improvements	STR-20-003	\$50,000	\$50,000												
NW 18th Street Reconstruction - NW Ash Drive to North Ankeny Boulevard	STR-20-004	\$1,675,000	\$1,675,000												
NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard	STR-20-005	\$2,600,000	\$2,600,000												
SE Delaware Avenue Widening	STR-20-006	\$650,000	\$650,000												
SW Oralabor Road and SW State Street Safety Improvements	STR-20-008	\$140,000	\$140,000												
High Trestle Trail Transmission Main	WTM-17-001	\$4,000,000					\$4,000,000								
South Ankeny Boulevard Transmission Main	WTM-18-001	\$165,000					\$165,000								
SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002	\$1,352,000					\$1,352,000								
Aquifer Storage and Recovery #1 Replacement	WTT-17-002	\$4,150,000					\$4,150,000								
Future NW Water Tower	WTT-19-002	\$300,000					\$300,000								
		\$28,342,000	\$9,137,500	\$1,920,000	\$1,725,000	\$0	\$9,967,000	\$0	\$1,515,000	\$3,555,000	\$187,500	\$0	\$335,000	\$0	\$0

2022 Bond Issue Project Costs	\$12,782,500
Cost of Issuance	\$187,500
Projected 2022 Bond Issue Total	\$12,970,000

2020-2024 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	\$350,000	\$225,000										\$125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$575,000								\$575,000					
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	\$1,000,000	\$950,000										\$50,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$450,000	\$450,000												
Annual Water Main Replacement Program	WTM-00-001	\$570,000								\$570,000					
Community Entrance Signs	BLD-18-002	\$80,000									\$80,000				
Hawkeye Park Sports Complex - Tennis Courts Renovation	PRK-18-003	\$700,000	\$700,000												
Oralabor Gateway Trail - SW State Street Overpass	SDW-19-001	\$1,540,000	\$940,000						\$600,000						
Otter Creek Trunk Sewer - Phase 3	SNS-11-001	\$1,600,000								\$1,600,000					
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	\$182,000								\$182,000					
Sawgrass Park Dam Improvements	STM-19-004	\$85,000		\$85,000											
Four Mile Creek Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	\$435,000		\$435,000											
High Trestle Trail Channel Stabilization - Phase 2	STM-20-003	\$20,000		\$20,000											
Tributary to Four Mile Creek Channel Stabilization - East of St. James Place	STM-20-004	\$2,280,000		\$1,880,000						\$400,000					
Westlawn Area Storm Sewer Improvements	STM-20-005	\$300,000		\$300,000											
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	\$3,975,000	\$1,475,000							\$2,500,000					
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	\$75,000	\$75,000												
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	\$425,000	\$425,000												
NW 18th Street Extension - NW Spruce Drive to Iowa Highway 415	STR-18-004	\$500,000	\$500,000												
Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005	\$600,000	\$600,000												
SW Oralabor Road and SW Edgewood Lane Intersection Improvements	STR-19-006	\$175,000	\$100,000						\$75,000						
NW 36th Street and NW State Street Interim Improvements	STR-20-003	\$490,000	\$490,000												
SW Oralabor Road and SW State Street Safety Improvements	STR-20-008	\$1,520,000	\$820,000						\$700,000						
South Ankeny Boulevard Transmission Main	WTM-18-001	\$2,010,000					\$2,010,000								
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	WTM-19-003	\$70,000					\$70,000								
Future NW Water Tower	WTT-19-002	\$6,803,000					\$6,803,000								
SE Delaware Ground Storage Tank Repaint	WTT-20-001	\$300,000					\$300,000								
		\$29,170,000	\$9,420,000	\$2,720,000	\$0	\$0	\$9,273,000	\$0	\$1,375,000	\$6,127,000	\$80,000	\$0	\$175,000	\$0	\$0

2023 Bond Issue Project Costs	\$12,140,000
Cost of Issuance	\$180,000
Projected 2023 Bond Issue Total	\$12,320,000

2020-2024 Capital Improvement Program

2024 CIP Projects by Funding Source

Project	Project #	2024	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	\$350,000	\$225,000										\$125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$1,025,000								\$1,025,000					
Annual Storm Water Replacement Program	STM-00-001	\$250,000								\$250,000					
Annual PCC Street Patching Program	STR-00-001	\$920,000	\$920,000												
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	\$1,000,000	\$450,000										\$550,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$450,000	\$450,000												
Annual Water Main Replacement Program	WTM-00-001	\$520,000								\$520,000					
SE Frisk Drive RCB Culvert	BRG-20-001	\$200,000	\$200,000												
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	\$918,000								\$918,000					
Four Mile Creek Trunk Sewer	SNS-20-001	\$140,000								\$140,000					
Sawgrass Park Dam Improvements	STM-19-004	\$405,000		\$405,000											
High Trestle Trail Channel Stabilization - Phase 2	STM-20-003	\$215,000		\$215,000											
Westlawn Area Storm Sewer Improvements	STM-20-005	\$1,625,000		\$1,225,000						\$400,000					
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	\$4,950,000	\$2,450,000						\$2,500,000						
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	\$250,000	\$250,000												
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	\$4,575,000	\$4,575,000												
NW 36th Street Asphalt Overlay - NW Weigel Drive to NW Irvinedale Drive	STR-19-004	\$100,000	\$100,000												
Purchase Capacity in Saylorville Feeder Main	WTM-17-008	\$710,000					\$710,000								
South Ankeny Boulevard Water Main Improvements - SW Ordnance Road to SE 3rd Street	WTM-19-001	\$970,000					\$970,000								
NW State Street Water Main Improvements - Phase 2	WTM-19-003	\$880,000					\$880,000								
SE Magazine Ground Storage Tank Repaint	WTT-20-002	\$400,000					\$400,000								
		\$21,603,000	\$10,320,000	\$1,845,000	\$0	\$0	\$2,960,000	\$0	\$2,500,000	\$3,303,000	\$0	\$0	\$675,000	\$0	\$0

2024 Bond Issue Project Costs	\$12,165,000
Cost of Issuance	\$180,000
Projected 2024 Bond Issue Total	\$12,345,000

<u>Annual Park Development Program</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>
Beginning Cash Balance	\$ 103,793	\$ 366,155	\$ 56,155	\$ 56,155	\$ 56,155	\$ 56,155
<u>Transfers In</u>						
General Obligation Bonds	\$ 300,000	\$ 550,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000
Park Dedication	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Memorial & Tribute Program	\$ 5,100					
Total Transfers In	\$ 355,100	\$ 600,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000
<u>Project Expenditures</u>						
Memorial & Tribute Program	\$ 8,845					
Deer Creek Park Development (Playground, Parking Lot, Trail Loop, Shelter & Basketball Court)	\$ 25,944					
Otter Creek Park Swings	\$ 12,000					
Hawkeye Park Pond Improvements (Outlet Structure, Dredging, Trail Realignment, Shore Stabilization & Fishing Pier)	\$ 45,948	\$ 560,000				
White Birch Park Shelter, Georgetown Park Shelter, Otter Creek Park Ball Diamond Installation and Centennial Park Development (Master Plan, Storm Water Drainage and Turf Improvements)		\$ 350,000				
NE Bellagio Park Development (Playground, Trail Connection & Shelter)			\$ 350,000			
Centennial Park Development (Playground, Parking Lot, Trail Loop & Shelter)				\$ 350,000		
Other Projects TBD (based on park dedication, development funding and pace of development)					\$ 350,000	\$ 350,000
Total Project Expenditures	\$ 92,737	\$ 910,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000
Remaining Cash Balance	\$ 366,155	\$ 56,155	\$ 56,155	\$ 56,155	\$ 56,155	\$ 56,155

<u>Annual Sidewalk/Trail Construction Program</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>
Beginning Cash Balance	\$ 484,484	\$ 253,755	\$ 128,755	\$ 128,755	\$ 128,755	\$ 128,755
<u>Transfers In</u>						
General Obligation Bonds		\$ 100,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000
Transfer from Road Use Tax Fund	\$ 300,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000
Total Transfers In	\$ 300,000	\$ 225,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000
<u>Project Expenditures</u>						
Sidewalk Oversizing	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
Sidewalk and Pedestrian Ramp Gaps		\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000
Pedestrian Ramp Improvements for ADA Compliance	\$ 115,060	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000
Sidewalk and Trail Panel Replacements		\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
2018 Surface Restoration	\$ 14,838					
2019 Surface Restoration	\$ 4,000					
NE Frisk Drive Sidewalk Connection	\$ 956					
SE Delaware Avenue & SE Magazine Road Retaining Wall Reconstruction	\$ 24,970					
SE Magazine Road 8' Sidewalk Upgrade - Phase 3 (SE Trilein Drive to SE Delaware Avenue)	\$ 295,906					
Total Project Expenditures	\$ 530,729	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000
Remaining Cash Balance	\$ 253,755	\$ 128,755	\$ 128,755	\$ 128,755	\$ 128,755	\$ 128,755

<u>Annual Sanitary Sewer Replacement Program</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>
Beginning Cash Balance	\$ 2,364,705	\$ 1,685,731	\$ 1,140,731	\$ 1,217,587	\$ 662,587	\$ 687,587
Transfers In						
Transfer from Sewer Fund	\$ 500,000	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000
Close Project Fund - SE Delaware Bank Stabilization	\$ 15,394					
Close Project Fund - Special Assessments			\$ 196,857			
Total Transfers In	\$ 515,394	\$ 500,000	\$ 796,857	\$ 600,000	\$ 600,000	\$ 600,000
Project Expenditures						
Sanitary Sewer Oversizing	\$ 2,715	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Sanitary Sewer Spot Repairs, Manhole Repairs & Slip Lining	\$ 729,408	\$ 575,000	\$ 75,000	\$ 575,000	\$ 75,000	\$ 575,000
SE Eastlawn Area Utility Improvements	\$ 429,712	\$ 390,000				
NW Northlawn Area Utility Improvements	\$ 32,533	\$ 50,000	\$ 615,000	\$ 550,000	\$ 470,000	\$ 420,000
Total Project Expenditures	\$ 1,194,368	\$ 1,045,000	\$ 720,000	\$ 1,155,000	\$ 575,000	\$ 1,025,000
Remaining Cash Balance	<u>\$ 1,685,731</u>	<u>\$ 1,140,731</u>	<u>\$ 1,217,587</u>	<u>\$ 662,587</u>	<u>\$ 687,587</u>	<u>\$ 262,587</u>

<u>Annual Storm Water Replacement Program</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>
Beginning Cash Balance	\$ 342,528	\$ 269,271	\$ 244,271	\$ 244,271	\$ 244,271	\$ 244,271
<u>Transfers In</u>						
Transfer from Storm Water Fund	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Federal Emergency Management Agency (FEMA)	\$ 80,143					
Special Assessment	\$ 171					
Total Transfers In	\$ 330,314	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
<u>Project Expenditures</u>						
SW 2nd Street & SW Flynn Drive Intersection Improvements - Design & Construct	\$ 96,949					
Tradition Park Detention Basin, NW 18th Street Box Culvert & NE 36th Street Box Culvert - Fence Repairs	\$ 3,336					
Sawgrass Park Dam Flood Repair - Design	\$ 9,250					
Sawgrass Park Dam Flood Repair - Construct	\$ 109,770					
North Creek Slope and Channel Flood Repair - Design	\$ 19,795					
North Creek Slope and Channel Flood Repair - Construct	\$ 128,172					
West First Street Bridge over Rock Creek Flood Repair - Construct	\$ 36,300					
Saylor Creek Repairs and Stabilization - Design & Construct		\$ 100,000				
Triangle Detention Basin Outlet Modification - Design & Construct		\$ 85,000				
Magazine Road Storm Sewer Improvements - Construct		\$ 50,000				
Storm Water Conservation Design Features within City Property		\$ 10,000				
Storm Water Projects (TBD)		\$ 30,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Total Project Expenditures	\$ 403,571	\$ 275,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
<u>Transfers Out - SE Peterson Drive & SE Trilein Drive Storm Sewer</u>						
Remaining Cash Balance	\$ 269,271	\$ 244,271	\$ 244,271	\$ 244,271	\$ 244,271	\$ 244,271

[illegible]

Projected
2020

Projected
2022

Projected
2023

Projected
2024

<u>Annual Asphalt Street Resurfacing Program</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>
Beginning Cash Balance	\$ 194,364	\$ 107,883	\$ 107,883	\$ 107,883	\$ 107,883	\$ 107,883
Transfers In						
General Obligation Bonds	\$ 150,000	\$ 190,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Total Transfers In	\$ 150,000	\$ 190,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Project Expenditures						
NW Weigel Drive - West 1st Street to NW 5th Street						
NW 8th Street - NW Polk City Drive to NW Cypress Avenue	\$ 151,481					
Full depth patches - Prairie Ridge Sports Complex north parking lot						
SW Railroad Drive - SW Ordnance Road to SW Walnut Street		\$ 140,000				
SE Oralabor Road - SE Four Mile Drive to City Limits		\$ 25,000				
Cost share for asphalt overlay of public streets related to private development projects		\$ 25,000				
Lakeside Center Parking Lot and Access Drive Overlay			\$ 150,000			
Asphalt Street Resurfacing (TBD)	\$ 30,000			\$ 150,000	\$ 150,000	\$ 150,000
Total Project Expenditures	\$ 181,481	\$ 190,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Transfers Out - SE Four Mile Drive Asphalt Overlay	\$ 55,000					
Remaining Cash Balance	\$ 107,883	\$ 107,883	\$ 107,883	\$ 107,883	\$ 107,883	\$ 107,883

	<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>	<u>Projected</u> <u>2024</u>
<u>Annual Pavement Preservation Program</u>						

Beginning Cash Balance	\$ 57,536	\$ 47,609	\$ 47,609	\$ 47,609	\$ 47,609	\$ 47,609
Transfers In						
General Obligation Bonds	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Total Transfers In	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Project Expenditures						
2019 Pavement Preservation Program	\$ 259,927					
2020 Pavement Preservation Program		\$ 250,000				
2021 Pavement Preservation Program			\$ 250,000			
2022 Pavement Preservation Program				\$ 250,000		
2023 Pavement Preservation Program					\$ 250,000	
2024 Pavement Preservation Program						\$ 250,000
Total Project Expenditures	\$ 259,927	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Remaining Cash Balance	\$ 47,609	\$ 47,609	\$ 47,609	\$ 47,609	\$ 47,609	\$ 47,609

Annual Street Replacement Program

[illegible]

<u>Annual Traffic Signal Improvement Program</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>
Beginning Cash Balance	\$ 266,827	\$ 120,934	\$ 120,934	\$ 120,934	\$ 120,934	\$ 120,934
<u>Transfers In</u>						
General Obligation Bonds	\$ 660,000	\$ 1,065,000	\$ 895,000	\$ 485,000	\$ 450,000	\$ 450,000
Transfer from Road Use Tax Fund	\$ 500,000					
Iowa Department of Transportation - USTEP	\$ 275,123					
Ankeny Community School District - Cost Share	\$ 60,000					
Iowa Department of Transportation - Cost Share		\$ 45,000				
Polk County - Cost Share		\$ 50,000				
Total Transfers In	\$ 1,495,123	\$ 1,160,000	\$ 895,000	\$ 485,000	\$ 450,000	\$ 450,000
<u>Project Expenditures</u>						
Signal Pole Replacement at South Ankeny Boulevard and SW Ordinance Road	\$ 22,509					
West 1st Street & Highway 415 Signal	\$ 8,518					
Interstate 35 & SE Corporate Woods Drive SB Ramp Signal	\$ 166,696					
NE Delaware Avenue & NE 18th Street Pedestrian Signal Modifications	\$ 55,862					
SW State Street & SW Prairie Trail Parkway Signal and Intersection Improvements	\$ 1,004,710					
Fiber Optic Relocation at SW State Street and SW Prairie Trail Parkway	\$ 57,637					
Fiber Optic Conduit Connection between New Library and Police Station	\$ 39,919					
South Ankeny Boulevard Fiber Optic Relocation between SE Lorenz Drive and South 3rd Street	\$ 232,164					
NE 18th Street & NE Trilein Drive Signal & Fiber Optic Upgrade	\$ 53,000	\$ 525,000				
East 1st Street Fiber Optic Upgrade		\$ 105,000				
North Ankeny Boulevard & NE 54th Street Signal		\$ 145,000				

<u>Annual Water Main Extension/Replacement Program</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>
Beginning Cash Balance	\$ 848,109	\$ 885,815	\$ 695,815	\$ 357,657	\$ 207,657	\$ 237,657
Transfers In						
Transfer from Water Fund	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 600,000	\$ 600,000
Close Project Fund - Special Assessments			\$ 51,842			
Total Transfers In	\$ 500,000	\$ 500,000	\$ 551,842	\$ 500,000	\$ 600,000	\$ 600,000
Project Expenditures						
Water Main Oversizing		\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
SW 3rd Street (Maple to Scott) Water Main Improvements	\$ 48					
SE Eastlawn Area Utility Improvements	\$ 429,712	\$ 390,000				
NW Northlawn Area Utility Improvements	\$ 32,533	\$ 50,000	\$ 615,000	\$ 550,000	\$ 470,000	\$ 420,000
SE 8th Street - SE Oak Drive to SE Sharon Drive Water Main Improvements		\$ 150,000				
SE 8th Street - South Ankeny Boulevard to SE Oak Drive Water Main Improvements			\$ 175,000			
Total Project Expenditures	\$ 462,293	\$ 690,000	\$ 890,000	\$ 650,000	\$ 570,000	\$ 520,000
Remaining Cash Balance	\$ 885,815	\$ 695,815	\$ 357,657	\$ 207,657	\$ 237,657	\$ 317,657

		2020-2024 Capital Improvement Program Overall Project Listing with 10-Year Horizon Projects												
Map I.D.		Proposed Projects	Project No.	2020	2021	2022	2023	2024	High Priority Projects					Project Cost
									2025	2026	2027	2028	2029	
ANNUAL PROGRAMS														
1	A	Annual Park Development Program	PRK-00-002	\$910,000	\$350,000	\$350,000	\$350,000	\$350,000	\$500,000	\$550,000	\$550,000	\$550,000	\$550,000	\$5,010,000
		Annual Sidewalk/Trail Construction Program	SDW-00-001	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$3,750,000
2	B	Annual Sanitary Sewer Replacement Program	SNS-00-001	\$1,045,000	\$720,000	\$1,155,000	\$575,000	\$1,025,000	\$750,000	\$750,000	\$750,000	\$800,000	\$800,000	\$8,370,000
3		Annual Storm Water Replacement Program	STM-00-001	\$275,000	\$250,000	\$250,000	\$250,000	\$250,000	\$300,000	\$350,000	\$350,000	\$350,000	\$350,000	\$2,975,000
		Annual PCC Street Patching Program	STR-00-001	\$940,000	\$1,115,000	\$1,050,000	\$970,000	\$920,000	\$850,000	\$850,000	\$850,000	\$850,000	\$850,000	\$9,245,000
4	C	Annual Asphalt Street Resurfacing Program	STR-00-002	\$190,000	\$150,000	\$150,000	\$150,000	\$150,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,790,000
		Annual Pavement Preservation Program	STR-00-003	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$2,500,000
5, 6	D	Annual Street Replacement Program	STR-00-004	\$1,800,000	\$1,450,000	\$950,000	\$1,000,000	\$1,000,000	\$850,000	\$850,000	\$850,000	\$850,000	\$850,000	\$10,450,000
7, 8	E	Annual Traffic Signal Improvement Program	TRF-00-001	\$1,160,000	\$895,000	\$485,000	\$450,000	\$450,000	\$500,000	\$500,000	\$600,000	\$600,000	\$600,000	\$6,240,000
9	F	Annual Water Main Replacement Program	WTM-00-001	\$690,000	\$890,000	\$650,000	\$570,000	\$520,000	\$700,000	\$700,000	\$750,000	\$750,000	\$750,000	\$6,970,000
BUILDINGS														
10		Ankeny Public Services Library Remodel	BLD-16-001	\$4,864,000										\$4,864,000
11		Art Center Foundation Repairs	BLD-19-001	\$175,000										\$175,000
12		City Hall Council Chambers Renovation	BLD-20-001	\$330,700										\$330,700
13		Fire Station No. 4	BLD-20-002	\$150,000					\$350,000	\$4,400,000				\$4,900,000
14	G	Senior Community Center	BLD-18-003	\$4,876,000	\$3,800,000									\$8,676,000
15	H	Park Maintenance Facility Renovations	BLD-18-001	\$625,000	\$625,000									\$1,250,000
	I	HVAC Replacement - City Hall	BLD-18-004	\$217,000	\$560,000									\$777,000
		Community Entrance Signs	BLD-18-002		\$45,000	\$80,000	\$80,000							\$205,000
		Wastewater Treatment Facilities Demolition	Buildings									\$800,000		\$800,000
BRIDGES														
16		NE Four Mile Drive RCB Culvert - Deer Creek	BRG-17-001	\$935,000										\$935,000
		SE Frisk Drive RCB Culvert	BRG-20-001					\$200,000						\$200,000
		NE 18th Street Improvements and I-35 Overpass Bridge	Bridge						\$100,000	\$900,000	\$5,500,000	\$4,000,000		\$10,500,000
		SW Oralabor Road and Ankeny Boulevard Regional Trail Overpass	Bridge								\$100,000	\$1,500,000		\$1,600,000
		Corporate Woods Drive Railroad Overpass	Bridge							\$750,000	\$4,000,000	\$5,000,000		\$9,750,000
		SW Oralabor Road Pedestrian Overpass at White Birch Drive	Bridge								\$120,000	\$120,000	\$1,600,000	\$1,840,000
PARKS														
		Ankeny Market & Pavilion	PRK-13-001	\$36,837										\$36,837
17		Prairie Ridge Sports Complex - Drainage Improvements	PRK-14-002	\$80,000										\$80,000
18		Signature Park	PRK-20-006	\$1,850,000						\$700,000	\$700,000	\$700,000	\$400,000	\$4,350,000
19		Dog Park Parking Lot Expansion	PRK-20-003	\$125,000										\$125,000
20		Prairie Ridge Sports Complex - Tee Ball Field	PRK-17-001	\$154,000										\$154,000
21		High Trestle Trail Trailhead and Parking Lot	PRK-18-001	\$325,000										\$325,000
22		Ankeny Kirkendall Public Library Playground	PRK-20-007	\$180,000										\$180,000
23	J	Older Parks Renovation Plan	PRK-17-003	\$245,000	\$150,000									\$395,000
		Hawkeye Sports Complex - Pickleball Courts	PRK-20-004			\$330,000								\$330,000
		Hawkeye Park Sports Complex - Tennis Courts Renovation	PRK-18-003				\$700,000							\$700,000
		Clover Ridge Trail	Parks						\$75,000					\$75,000
		Boulder Brook Trail Extension	Parks						\$195,000					\$195,000
		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						\$275,000	\$2,750,000	\$300,000	\$3,000,000		\$6,325,000
		Watercrest Community Park Expansion	Parks							\$200,000	\$2,000,000			\$2,200,000

2020-2024 Capital Improvement Program
Overall Project Listing with 10-Year Horizon Projects

Map I.D.		Proposed Projects	High Priority Projects										
			Project No.	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
SIDEWALKS/TRAILS													
	K	High Trestle Trail Extension - SE Magazine Road to SE Oralabor Road	SDW-16-001	\$150,000	\$1,825,000								\$1,975,000
		Oralabor Gateway Trail - SW State Street Overpass	SDW-19-001			\$210,000	\$1,540,000						\$1,750,000
		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
SANITARY SEWERS													
		Sanitary Sewer Repairs	SNS-19-001	\$272,000									\$272,000
24		NW Northlawn Area Sanitary Sewer Improvements	SNS-20-004	\$260,000									\$260,000
	L	West Outfall Basin Sanitary Trunk Sewer Improvements	SNS-20-003	\$175,000	\$1,275,000								\$1,450,000
	M	SE 3rd Street Trunk Sewer Extension - SE Grant Street to SE Sharon Drive	SNS-20-002	\$104,000	\$1,296,000								\$1,400,000
		Otter Creek Trunk Sewer - Phase 3	SNS-11-001			\$325,000	\$1,600,000						\$1,925,000
		Otter Creek Trunk Sewer - Phase 4	SNS-12-001				\$182,000	\$918,000					\$1,100,000
		North Four Mile Creek Trunk Sewer	SNS-20-001					\$140,000	\$1,595,000				\$1,735,000
		Briarwood Sanitary Sewer Upsizing/Replacement	Sewer						\$1,500,000				\$1,500,000
		Central Area Sewer System Upsizing	Sewer							\$2,000,000			\$2,000,000
STORM WATER													
25		North Creek Channel Flood Repairs	STM-19-002	\$420,000									\$420,000
26		Wildflower Detention Basin Improvements	STM-18-002	\$480,000									\$480,000
	N	SE 3rd Street Area Storm Sewer Improvements	STM-20-006	\$160,000	\$760,000	\$760,000							\$1,680,000
		High Trestle Trail Channel Stabilization - Phase 1	STM-20-002		\$160,000	\$1,190,000							\$1,350,000
		Tributary to Four Mile Creek Channel Stabilization - East of St. James Place	STM-20-004		\$25,000	\$280,000	\$2,280,000						\$2,585,000
		Four Mile Creek Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001			\$55,000	\$435,000						\$490,000
		Westlawn Area Storm Sewer Improvements	STM-20-005			\$35,000	\$300,000	\$1,625,000	\$1,625,000				\$3,585,000
		High Trestle Trail Channel Stabilization - Phase 2	STM-20-003				\$20,000	\$215,000	\$1,735,000				\$1,970,000
		Sawgrass Park Dam Improvements	STM-19-004				\$85,000	\$405,000					\$490,000
		Saylor Creek Tributary Channel Improvements	Storm						\$150,000	\$650,000			\$800,000
STREETS													
		South Ankeny Boulevard and SW Oralabor Road Safety Studies	STR-18-006	\$30,000									\$30,000
27		SE Hulsizer Road Realignment	STR-18-007	\$3,065,000									\$3,065,000
28		SW State Street Reconstruction - SW Ordnance Road to West 1st Street (NB Lanes)	STR-19-005	\$1,275,000									\$1,275,000
29		SE Crosswinds Drive/SE 77th Street Improvements	STR-19-008	\$2,820,000									\$2,820,000
30		West 1st Street Joint Utility Trench	STR-20-001	\$595,000									\$595,000
30		West 1st Street Temporary Traffic Signals	STR-20-009	\$125,000									\$125,000
	O	South Ankeny Boulevard and Magazine Road Safety Improvements	STR-19-007	\$60,000	\$280,000								\$340,000
31	P	East 1st Street and I-35 Interchange Reconstruction	STR-11-004	\$1,716,666	\$666,667								\$2,383,333
	Q	NW 18th Street Extension - NW Weigel Drive to NW Spruce Drive	STR-16-002	\$460,000	\$4,000,000								\$4,460,000
	R	SE Delaware Avenue and SE Corporate Woods Drive Intersection Improvements	STR-20-007	\$60,000	\$540,000								\$600,000
	S	West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$410,000	\$2,940,000	\$3,240,000							\$6,590,000
	T	North Ankeny Boulevard Landscaping and Median Improvements	STR-18-001	\$100,000	\$740,000	\$215,000							\$1,055,000
		NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard	STR-20-005	\$40,000	\$275,000	\$2,600,000							\$2,915,000
		SE Delaware Avenue Widening	STR-20-006	\$15,000	\$75,000	\$650,000							\$740,000
32		SW Oralabor Road and SW State Street Safety Improvements	STR-20-008	\$35,000		\$140,000	\$1,520,000						\$1,695,000
	U	NW 26th Street Widening	STR-20-002		\$250,000								\$250,000
		NW 18th Street Reconstruction - NW Ash Drive to North Ankeny Boulevard	STR-20-004		\$200,000	\$1,675,000							\$1,875,000
		NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006		\$250,000	\$725,000	\$3,975,000	\$4,950,000	\$125,000				\$10,025,000
		Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005		\$25,000	\$100,000	\$600,000						\$725,000

		2020-2024 Capital Improvement Program Overall Project Listing with 10-Year Horizon Projects												
Map I.D.	Proposed Projects		Project No.	2020	2021	2022	2023	2024	High Priority Projects					Project Cost
									2025	2026	2027	2028	2029	
		NW 36th Street and NW State Street Interim Improvements	STR-20-003			\$50,000	\$490,000							\$540,000
		NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003			\$75,000	\$425,000	\$4,575,000						\$5,075,000
		SW Oralabor Road and SW Edgewood Lane Intersection Improvements	STR-19-006				\$175,000							\$175,000
		NW 18th Street Extension - NW Spruce Drive to Iowa Highway 415	STR-18-004				\$500,000		\$3,225,000					\$3,725,000
		SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003				\$75,000	\$250,000	\$2,870,000					\$3,195,000
		NW 36th Street Asphalt Overlay - NW Weigel Drive to NW Irvinedale Drive	STR-19-004					\$100,000	\$975,000					\$1,075,000
		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 North Ankeny Boulevard	Streets						\$100,000	\$1,300,000				\$1,400,000
		NW State Street Extension 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									\$800,000	\$6,500,000	\$7,300,000
		NW 36th Street Reconstruction - NW Weigel Drive to NW Irvinedale Drive	Streets									\$900,000	\$7,000,000	\$7,900,000
WATER														
33		SE Magazine Road Water Main Improvements	WTM-17-003	\$635,000										\$635,000
34		SW Water Tower Interior Repaint	WTT-19-001	\$90,000										\$90,000
35		Irvinedale Drive Transmission Main - Phase 2	WTM-17-006	\$2,500,000										\$2,500,000
36		NW Irvinedale Drive Water Main - Trestle Ridge Estates Plat 3 to NW 36th Street	WTM-19-002	\$100,000										\$100,000
	V	Irvinedale Drive Transmission Main - Phase 3	WTM-17-007	\$160,000	\$1,940,000									\$2,100,000
	W	NW 36th Street Water Main - NW Irvinedale Drive to NW Weigel Drive and NW Weigel Drive Water Main - NW 36th Street to NW 18th Street	WTM-20-001	\$120,000	\$1,355,000									\$1,475,000
		High Trestle Trail Transmission Main	WTM-17-001		\$250,000	\$4,000,000								\$4,250,000
		Aquifer Storage and Recovery #1 Replacement	WTT-17-002		\$300,000	\$4,150,000								\$4,450,000
		SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002		\$112,000	\$1,352,000								\$1,464,000
		South Ankeny Boulevard Transmission Main	WTM-18-001			\$165,000	\$2,010,000							\$2,175,000
		Future NW Water Tower	WTT-19-002			\$300,000	\$6,803,000							\$7,103,000
		SE Delaware Ground Storage Tank Repaint	WTT-20-001				\$300,000							\$300,000
		South Ankeny Boulevard Water Main Improvements - SW Ordnance Road to SE 3rd Street	WTM-19-001				\$90,000	\$970,000						\$1,060,000
		NW State Street Water Main Improvements	WTM-19-003				\$70,000	\$880,000						\$950,000
		SE Magazine Ground Storage Tank Repaint	WTT-20-002					\$400,000						\$400,000
		Purchase Capacity in Saylorville Feeder Main	WTM-17-008					\$710,000						\$710,000
		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														
														\$0
			Year Totals	\$39,211,203	\$31,139,667	\$28,342,000	\$29,170,000	\$21,603,000	\$22,330,000	\$28,380,000	\$26,170,000	\$29,170,000	\$27,100,000	\$282,615,870

Section 2

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

EXHIBIT 1

FY21 Pre-Levy => 3,006,417

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

								Total Resources	Par Proceeds	\$8,450,000	\$9,540,000	\$9,270,000	\$9,555,000	\$10,470,000				Total Uses	Surplus/ (Deficit)	Ending Fund Balance	
Fiscal Year	Total Tax Valuation	Growth	Taxes Levied	Debt Levy	Utility/ TIF Abatement	Misc Income	Property Tax Backfill		Existing GO Debt	2020 CIP-Taxes	2021 CIP-Taxes	2022 CIP-Taxes	2023 CIP-Taxes	2024 CIP-Taxes	Estimated Future GO Bonds	Bond Fees	Other 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	118,225	355,273	21,518,427	21,801,317							7,100	(1,115)	21,807,302	(288,875)	1,860,091	
2019 - 2020	3,842,245,193	8.8%	13,447,858	\$3.5000	8,617,551	124,000	343,629	22,533,038	22,703,697							7,700		22,711,397	(178,359)	1,681,732	
2020 - 2021	4,177,177,183	8.7%	13,575,826	\$3.2500	9,033,801	124,000	328,077	23,061,704	20,088,619	3,005,817						8,300		23,102,735	(41,032)	1,640,701	
2021 - 2022	4,404,054,658	5.4%	14,313,178	\$3.2500	8,423,168	124,000	311,673	23,172,019	16,844,031	1,911,400	4,405,099					8,400		23,168,931	3,089	1,643,789	
2022 - 2023	4,467,546,854	1.4%	14,519,527	\$3.2500	8,397,641	124,000	296,089	23,337,258	16,828,144	824,200	2,335,213	3,351,361				8,400		23,347,317	(10,060)	1,633,730	
2023 - 2024	4,643,080,276	3.9%	15,090,011	\$3.2500	8,276,104	124,000	281,285	23,771,400	16,939,919	572,800	510,813	2,076,213	3,687,844			8,400		23,795,988	(24,588)	1,609,142	
2024 - 2025	4,625,907,632	(0.4%)	15,034,200	\$3.2500	6,907,243	124,000	267,221	22,332,663	15,301,844	575,400	511,013	695,888	2,265,831	3,079,394		8,400		22,437,769	(105,105)	1,504,036	
2025 - 2026	4,822,139,327	4.2%	15,671,953	\$3.2500	6,487,861	124,000	253,860	22,537,674	14,648,700	572,200	510,613	699,063	912,731	3,817,913	1,285,314	8,400		22,454,932	82,741	1,586,777	

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	\$ 1,290,000
05/15/11	06/01/26	3,640,000
05/30/12	06/01/27	6,595,000
05/30/13	06/01/28	12,425,000
05/30/13	06/01/28	8,755,000
05/29/14	06/01/29	10,790,000
05/29/14	06/01/29	9,175,000
12/22/14	06/01/28	15,250,000
05/28/15	06/01/25	4,350,000
05/28/15	06/01/24	245,000
03/31/16	06/01/28	7,410,000
05/25/16	06/01/26	6,070,000
05/31/17	06/01/27	7,740,000
05/30/18	06/01/28	14,835,000
05/28/19	06/01/29	20,740,000
Rebate & Lease Agreements		8,898,201
Total Outstanding Debt		\$ 138,208,201

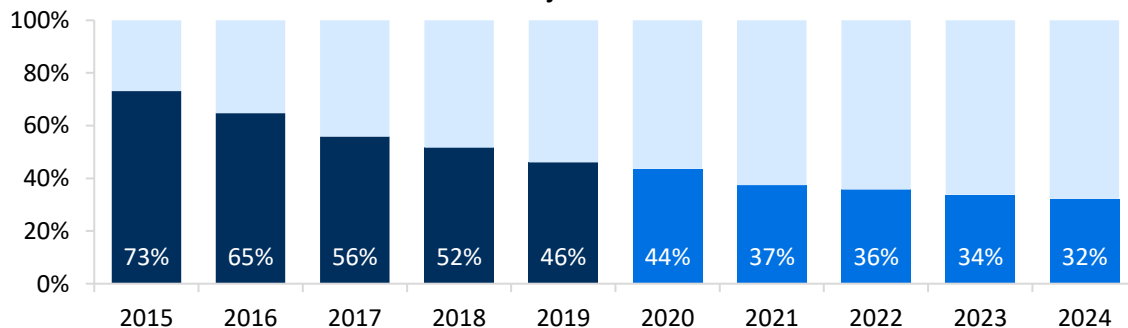
Projected Debt

Bond Year	Debt Addition	Debt Reduction	Change in Rebates	Net Change	Projected Outstanding Debt
2020	\$ 12,010,000	\$ 17,840,000	\$ -	\$ (5,830,000)	\$ 132,378,201
2021	11,535,000	15,915,000	(1,408,556)	(5,788,556)	126,589,645
2022	12,970,000	13,285,000	(682,716)	(997,716)	125,591,929
2023	12,320,000	13,830,000	(590,942)	(2,100,942)	123,490,987
2024	12,345,000	14,485,000	(731,207)	(2,871,207)	120,619,780

Calculation of Legal Debt Limit

FY	Assessed Value	Debt Limit Value (5%)	Projected Outstanding Debt	Unused Debt Limit	% of Debt Limit Used
2020	6,065,361,932	\$ 303,268,097	\$ 132,378,201	\$ 170,889,896	44%
2021	6,757,286,173	337,864,309	126,589,645	211,274,664	37%
2022	7,027,632,081	351,381,604	125,591,929	225,789,675	36%
2023	7,311,267,995	365,563,400	123,490,987	242,072,413	34%
2024	7,491,862,170	374,593,109	120,619,780	253,973,329	32%

Historical and Projected Use of Debt Limit



Section 3

City of Ankeny, Iowa
2020 - 2024 Capital Improvement Program
2020 thru 2024

CATEGORY SUMMARY

Category	2020	2021	2022	2023	2024	Total
Bridge/Box Culvert	935,000				200,000	1,135,000
Municipal Buildings	11,237,700	5,030,000	80,000	80,000		16,427,700
Park Facilities	3,905,837	500,000	680,000	1,050,000	350,000	6,485,837
Sanitary Sewers	1,856,000	3,291,000	1,480,000	2,357,000	2,083,000	11,067,000
Sidewalks/Trails	500,000	2,175,000	560,000	1,890,000	350,000	5,475,000
Storm Water	1,335,000	1,195,000	2,570,000	3,370,000	2,495,000	10,965,000
Streets and Alleys	13,986,666	13,206,667	11,870,000	10,130,000	12,195,000	61,388,333
Traffic Control	1,160,000	895,000	485,000	450,000	450,000	3,440,000
Water Mains	4,205,000	4,547,000	6,167,000	2,740,000	3,080,000	20,739,000
Water Towers/Storage	90,000	300,000	4,450,000	7,103,000	400,000	12,343,000
TOTAL	39,211,203	31,139,667	28,342,000	29,170,000	21,603,000	149,465,870

City of Ankeny, Iowa
2020 - 2024 Capital Improvement Program
2020 thru 2024

PROJECTS BY CATEGORY

Category	Project #	2020	2021	2022	2023	2024	Total
Bridge/Box Culvert							
NE Four Mile Drive RCB Culvert-Deer Creek	BRG-17-001	935,000					935,000
SE Frisk Drive RCB Culvert	BRG-20-001					200,000	200,000
Bridge/Box Culvert Total		935,000				200,000	1,135,000
Municipal Buildings							
Ankeny Public Services Library Remodel	BLD-16-001	4,864,000					4,864,000
Park Maintenance Facility Renovations	BLD-18-001	625,000	625,000				1,250,000
Community Entrance Signs	BLD-18-002		45,000	80,000	80,000		205,000
Senior Community Center	BLD-18-003	4,876,000	3,800,000				8,676,000
HVAC Replacement-City Hall	BLD-18-004	217,000	560,000				777,000
Art Center Foundation Repairs	BLD-19-001	175,000					175,000
City Hall Council Chambers Renovation	BLD-20-001	330,700					330,700
Fire Station No. 4	BLD-20-002	150,000					150,000
Municipal Buildings Total		11,237,700	5,030,000	80,000	80,000		16,427,700
Park Facilities							
Annual Park Development Program	PRK-00-002	910,000	350,000	350,000	350,000	350,000	2,310,000
Ankeny Market & Pavilion	PRK-13-001	36,837					36,837
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	245,000	150,000				395,000
High Trestle Trail Trailhead and Parking Lot	PRK-18-001	325,000					325,000
Hawkeye Park-Tennis Courts Renovation	PRK-18-003				700,000		700,000
Dog Park Parking Lot Expansion	PRK-20-003	125,000					125,000
Hawkeye Park-Pickleball Courts	PRK-20-004			330,000			330,000
Signature Park	PRK-20-006	1,850,000					1,850,000
Ankeny Kirkendall Public Library Playground	PRK-20-007	180,000					180,000
Park Facilities Total		3,905,837	500,000	680,000	1,050,000	350,000	6,485,837
Sanitary Sewers							
Annual Sanitary Sewer Replacement Program	SNS-00-001	1,045,000	720,000	1,155,000	575,000	1,025,000	4,520,000
Otter Creek Trunk Sewer-Phase 3	SNS-11-001			325,000	1,600,000		1,925,000
Otter Creek Trunk Sewer-Phase 4	SNS-12-001				182,000	918,000	1,100,000
Sanitary Sewer Repairs	SNS-19-001	272,000					272,000
Four Mile Creek Trunk Sewer	SNS-20-001					140,000	140,000
SE 3rd Street Trunk Sewer Extension	SNS-20-002	104,000	1,296,000				1,400,000
West Outfall Basin Sanitary Sewer Improvements	SNS-20-003	175,000	1,275,000				1,450,000
NW Northlawn Area Sanitary Sewer Improvements	SNS-20-004	260,000					260,000
Sanitary Sewers Total		1,856,000	3,291,000	1,480,000	2,357,000	2,083,000	11,067,000
Sidewalks/Trails							
Annual Sidewalk/Trail Construction Program	SDW-00-001	350,000	350,000	350,000	350,000	350,000	1,750,000

Category	Project #	2020	2021	2022	2023	2024	Total
High Trestle Trail Extension-Magazine to Oralabor	SDW-16-001	150,000	1,825,000				1,975,000
Oralabor Gateway Trail-SW State Street Overpass	SDW-19-001			210,000	1,540,000		1,750,000
Sidewalks/Trails Total		500,000	2,175,000	560,000	1,890,000	350,000	5,475,000
Storm Water							
Annual Storm Water Replacement Program	STM-00-001	275,000	250,000	250,000	250,000	250,000	1,275,000
Wildflower Detention Basin Improvements	STM-18-002	480,000					480,000
North Creek Channel Flood Repair	STM-19-002	420,000					420,000
Sawgrass Park Dam Improvements	STM-19-004				85,000	405,000	490,000
Four Mile Creek Channel Stabilization	STM-20-001			55,000	435,000		490,000
High Trestle Trail Channel Stabilization-Phase 1	STM-20-002		160,000	1,190,000			1,350,000
High Trestle Trail Channel Stabilization-Phase 2	STM-20-003				20,000	215,000	235,000
Tributary to Four Mile Creek Channel Stabilization	STM-20-004		25,000	280,000	2,280,000		2,585,000
Westlawn Area Storm Sewer Improvements	STM-20-005			35,000	300,000	1,625,000	1,960,000
SE 3rd Street Area Storm Sewer Improvements	STM-20-006	160,000	760,000	760,000			1,680,000
Storm Water Total		1,335,000	1,195,000	2,570,000	3,370,000	2,495,000	10,965,000
Streets and Alleys							
Annual PCC Street Patching Program	STR-00-001	940,000	1,115,000	1,050,000	970,000	920,000	4,995,000
Annual Asphalt Street Resurfacing Program	STR-00-002	190,000	150,000	150,000	150,000	150,000	790,000
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	1,800,000	1,450,000	950,000	1,000,000	1,000,000	6,200,000
E 1st Street and I-35 Interchange Reconstruction	STR-11-004	1,716,666	666,667				2,383,333
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006		250,000	725,000	3,975,000	4,950,000	9,900,000
NW 18th Street Extension-Weigel to Spruce	STR-16-002	460,000	4,000,000				4,460,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003				75,000	250,000	325,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	410,000	2,940,000	3,240,000			6,590,000
North Ankeny Boulevard Landscaping Improvements	STR-18-001	100,000	740,000	215,000			1,055,000
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003			75,000	425,000	4,575,000	5,075,000
NW 18th Street Extension-Spruce to Highway 415	STR-18-004				500,000		500,000
Prairie Ridge Sports Complex-Parking Lot Access	STR-18-005		25,000	100,000	600,000		725,000
S Ankeny Blvd and SW Oralabor Rd Safety Studies	STR-18-006	30,000					30,000
SE Hulsizer Road Realignment	STR-18-007	3,065,000					3,065,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	STR-19-004					100,000	100,000
SW State Street Reconstruction-Ordinance to 1st St	STR-19-005	1,275,000					1,275,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006				175,000		175,000
S Ankeny Blvd and Magazine Rd Safety Improvements	STR-19-007	60,000	280,000				340,000
SE Crosswinds Drive/SE 77th Street Improvements	STR-19-008	2,820,000					2,820,000
West 1st Street Joint Utility Trench	STR-20-001	595,000					595,000
NW 26th Street Widening	STR-20-002		250,000				250,000
NW 36th St and NW State St Interim Improvements	STR-20-003			50,000	490,000		540,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	STR-20-004		200,000	1,675,000			1,875,000
NW 36th Street Widening- Ash to Ankeny Blvd	STR-20-005	40,000	275,000	2,600,000			2,915,000
SE Delaware Avenue Widening	STR-20-006	15,000	75,000	650,000			740,000
SE Delaware Ave and SE Corp Woods Dr Intersection	STR-20-007	60,000	540,000				600,000
SW Oralabor Rd and SW State St Safety Improvements	STR-20-008	35,000		140,000	1,520,000		1,695,000
West 1st Street Temporary Traffic Signals	STR-20-009	125,000					125,000
Streets and Alleys Total		13,986,666	13,206,667	11,870,000	10,130,000	12,195,000	61,388,333
Traffic Control							
Annual Traffic Signal Improvement Program	TRF-00-001	1,160,000	895,000	485,000	450,000	450,000	3,440,000
Traffic Control Total		1,160,000	895,000	485,000	450,000	450,000	3,440,000

Category	Project #	2020	2021	2022	2023	2024	Total
Water Mains							
Annual Water Main Replacement Program	WTM-00-001	690,000	890,000	650,000	570,000	520,000	3,320,000
High Trestle Trail Transmission Main	WTM-17-001		250,000	4,000,000			4,250,000
SE Magazine Road Water Main Improvements	WTM-17-003	635,000					635,000
Irvinedale Drive Transmission Main-Phase 2	WTM-17-006	2,500,000					2,500,000
Irvinedale Drive Transmission Main-Phase 3	WTM-17-007	160,000	1,940,000				2,100,000
Purchase Capacity in Saylorville Feeder Main	WTM-17-008					710,000	710,000
South Ankeny Boulevard Transmission Main	WTM-18-001			165,000	2,010,000		2,175,000
South Ankeny Boulevard Water Main Improvements	WTM-19-001				90,000	970,000	1,060,000
NW Irvinedale Drive Water Main	WTM-19-002	100,000					100,000
NW State Street Water Main Improvements	WTM-19-003				70,000	880,000	950,000
NW 36th Street and NW Weigel Drive Water Main	WTM-20-001	120,000	1,355,000				1,475,000
SW Walnut Street and SW Ordinance Road Water Main	WTM-20-002		112,000	1,352,000			1,464,000
Water Mains Total		4,205,000	4,547,000	6,167,000	2,740,000	3,080,000	20,739,000
Water Towers/Storage							
Aquifer Storage and Recovery #1 Replacement	WTT-17-002		300,000	4,150,000			4,450,000
SW Water Tower Interior Repaint	WTT-19-001	90,000					90,000
Future NW Water Tower	WTT-19-002			300,000	6,803,000		7,103,000
SE Delaware Ground Storage Tank Repaint	WTT-20-001				300,000		300,000
SE Magazine Ground Storage Tank Repaint	WTT-20-002					400,000	400,000
Water Towers/Storage Total		90,000	300,000	4,450,000	7,103,000	400,000	12,343,000
GRAND TOTAL		39,211,203	31,139,667	28,342,000	29,170,000	21,603,000	149,465,870

City of Ankeny, Iowa
2020 - 2024 Capital Improvement Program
2020 thru 2024

PROJECTS BY YEAR

Project Name	Department	Project #	Project Cost
2020			
Ankeny Public Services Library Remodel	Administration	BLD-16-001	4,864,000
Senior Community Center	Administration	BLD-18-003	4,876,000
HVAC Replacement-City Hall	Administration	BLD-18-004	217,000
Art Center Foundation Repairs	Administration	BLD-19-001	175,000
City Hall Council Chambers Renovation	Administration	BLD-20-001	330,700
Fire Station No. 4	Administration	BLD-20-002	150,000
Park Maintenance Facility Renovations	Parks and Recreation	BLD-18-001	625,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	910,000
Ankeny Market & Pavilion	Parks and Recreation	PRK-13-001	36,837
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	245,000
High Trestle Trail Trailhead and Parking Lot	Parks and Recreation	PRK-18-001	325,000
Dog Park Parking Lot Expansion	Parks and Recreation	PRK-20-003	125,000
Signature Park	Parks and Recreation	PRK-20-006	1,850,000
Ankeny Kirkendall Public Library Playground	Parks and Recreation	PRK-20-007	180,000
NE Four Mile Drive RCB Culvert-Deer Creek	Public Works	BRG-17-001	935,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
High Trestle Trail Extension-Magazine to Oralabor	Public Works	SDW-16-001	150,000
Annual PCC Street Patching Program	Public Works	STR-00-001	940,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	190,000
Annual Pavement Preservation Program	Public Works	STR-00-003	250,000
Annual Street Replacement Program	Public Works	STR-00-004	1,800,000
E 1st Street and I-35 Interchange Reconstruction	Public Works	STR-11-004	1,716,666
NW 18th Street Extension-Weigel to Spruce	Public Works	STR-16-002	460,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	410,000
North Ankeny Boulevard Landscaping Improvements	Public Works	STR-18-001	100,000
S Ankeny Blvd and SW Oralabor Rd Safety Studies	Public Works	STR-18-006	30,000
SE Hulsizer Road Realignment	Public Works	STR-18-007	3,065,000
SW State Street Reconstruction-Ordnance to 1st St	Public Works	STR-19-005	1,275,000
S Ankeny Blvd and Magazine Rd Safety Improvements	Public Works	STR-19-007	60,000
SE Crosswinds Drive/SE 77th Street Improvements	Public Works	STR-19-008	2,820,000
West 1st Street Joint Utility Trench	Public Works	STR-20-001	595,000
NW 36th Street Widening- Ash to Ankeny Blvd	Public Works	STR-20-005	40,000
SE Delaware Avenue Widening	Public Works	STR-20-006	15,000
SE Delaware Ave and SE Corp Woods Dr Intersection	Public Works	STR-20-007	60,000
SW Oralabor Rd and SW State St Safety Improvements	Public Works	STR-20-008	35,000
West 1st Street Temporary Traffic Signals	Public Works	STR-20-009	125,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	1,160,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	1,045,000
Sanitary Sewer Repairs	Sewer Utility	SNS-19-001	272,000
SE 3rd Street Trunk Sewer Extension	Sewer Utility	SNS-20-002	104,000
West Outfall Basin Sanitary Sewer Improvements	Sewer Utility	SNS-20-003	175,000
NW Northlawn Area Sanitary Sewer Improvements	Sewer Utility	SNS-20-004	260,000

Project Name	Department	Project #	Project Cost
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	275,000
Wildflower Detention Basin Improvements	Storm Water Utility	STM-18-002	480,000
North Creek Channel Flood Repair	Storm Water Utility	STM-19-002	420,000
SE 3rd Street Area Storm Sewer Improvements	Storm Water Utility	STM-20-006	160,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	690,000
SE Magazine Road Water Main Improvements	Water Utility	WTM-17-003	635,000
Irvinedale Drive Transmission Main-Phase 2	Water Utility	WTM-17-006	2,500,000
Irvinedale Drive Transmission Main-Phase 3	Water Utility	WTM-17-007	160,000
NW Irvinedale Drive Water Main	Water Utility	WTM-19-002	100,000
NW 36th Street and NW Weigel Drive Water Main	Water Utility	WTM-20-001	120,000
SW Water Tower Interior Repaint	Water Utility	WTT-19-001	90,000
Total for 2020			39,211,203

2021

Community Entrance Signs	Administration	BLD-18-002	45,000
Senior Community Center	Administration	BLD-18-003	3,800,000
HVAC Replacement-City Hall	Administration	BLD-18-004	560,000
Park Maintenance Facility Renovations	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	150,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
High Trestle Trail Extension-Magazine to Oralabor	Public Works	SDW-16-001	1,825,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,115,000
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	1,450,000
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	250,000
NW 18th Street Extension-Weigel to Spruce	Public Works	STR-16-002	4,000,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	2,940,000
North Ankeny Boulevard Landscaping Improvements	Public Works	STR-18-001	740,000
Prairie Ridge Sports Complex-Parking Lot Access	Public Works	STR-18-005	25,000
S Ankeny Blvd and Magazine Rd Safety Improvements	Public Works	STR-19-007	280,000
NW 26th Street Widening	Public Works	STR-20-002	250,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	Public Works	STR-20-004	200,000
NW 36th Street Widening- Ash to Ankeny Blvd	Public Works	STR-20-005	275,000
SE Delaware Avenue Widening	Public Works	STR-20-006	75,000
SE Delaware Ave and SE Corp Woods Dr Intersection	Public Works	STR-20-007	540,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	895,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	720,000
SE 3rd Street Trunk Sewer Extension	Sewer Utility	SNS-20-002	1,296,000
West Outfall Basin Sanitary Sewer Improvements	Sewer Utility	SNS-20-003	1,275,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
High Trestle Trail Channel Stabilization-Phase 1	Storm Water Utility	STM-20-002	160,000
Tributary to Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-004	25,000
SE 3rd Street Area Storm Sewer Improvements	Storm Water Utility	STM-20-006	760,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	890,000
High Trestle Trail Transmission Main	Water Utility	WTM-17-001	250,000
Irvinedale Drive Transmission Main-Phase 3	Water Utility	WTM-17-007	1,940,000
NW 36th Street and NW Weigel Drive Water Main	Water Utility	WTM-20-001	1,355,000
SW Walnut Street and SW Ordinance Road Water Main	Water Utility	WTM-20-002	112,000
Aquifer Storage and Recovery #1 Replacement	Water Utility	WTT-17-002	300,000
Total for 2021			31,139,667

2022

Project Name	Department	Project #	Project Cost
Community Entrance Signs	Administration	BLD-18-002	80,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
Hawkeye Park-Pickleball Courts	Parks and Recreation	PRK-20-004	330,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
Oralabor Gateway Trail-SW State Street Overpass	Public Works	SDW-19-001	210,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,050,000
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	950,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	725,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	3,240,000
North Ankeny Boulevard Landscaping Improvements	Public Works	STR-18-001	215,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	75,000
Prairie Ridge Sports Complex-Parking Lot Access	Public Works	STR-18-005	100,000
NW 36th St and NW State St Interim Improvements	Public Works	STR-20-003	50,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	Public Works	STR-20-004	1,675,000
NW 36th Street Widening- Ash to Ankeny Blvd	Public Works	STR-20-005	2,600,000
SE Delaware Avenue Widening	Public Works	STR-20-006	650,000
SW Oralabor Rd and SW State St Safety Improvements	Public Works	STR-20-008	140,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	485,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	1,155,000
Otter Creek Trunk Sewer-Phase 3	Sewer Utility	SNS-11-001	325,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-001	55,000
High Trestle Trail Channel Stabilization-Phase 1	Storm Water Utility	STM-20-002	1,190,000
Tributary to Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-004	280,000
Westlawn Area Storm Sewer Improvements	Storm Water Utility	STM-20-005	35,000
SE 3rd Street Area Storm Sewer Improvements	Storm Water Utility	STM-20-006	760,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	650,000
High Trestle Trail Transmission Main	Water Utility	WTM-17-001	4,000,000
South Ankeny Boulevard Transmission Main	Water Utility	WTM-18-001	165,000
SW Walnut Street and SW Ordinance Road Water Main	Water Utility	WTM-20-002	1,352,000
Aquifer Storage and Recovery #1 Replacement	Water Utility	WTT-17-002	4,150,000
Future NW Water Tower	Water Utility	WTT-19-002	300,000
Total for 2022			28,342,000

2023

Community Entrance Signs	Administration	BLD-18-002	80,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
Hawkeye Park-Tennis Courts Renovation	Parks and Recreation	PRK-18-003	700,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
Oralabor Gateway Trail-SW State Street Overpass	Public Works	SDW-19-001	1,540,000
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	1,000,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	3,975,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	Public Works	STR-16-003	75,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	425,000
NW 18th Street Extension-Spruce to Highway 415	Public Works	STR-18-004	500,000
Prairie Ridge Sports Complex-Parking Lot Access	Public Works	STR-18-005	600,000
SW Oralabor Rd and SW Edgewood Ln Intersection	Public Works	STR-19-006	175,000
NW 36th St and NW State St Interim Improvements	Public Works	STR-20-003	490,000
SW Oralabor Rd and SW State St Safety Improvements	Public Works	STR-20-008	1,520,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	450,000

Project Name	Department	Project #	Project Cost
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	575,000
Otter Creek Trunk Sewer-Phase 3	Sewer Utility	SNS-11-001	1,600,000
Otter Creek Trunk Sewer-Phase 4	Sewer Utility	SNS-12-001	182,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Sawgrass Park Dam Improvements	Storm Water Utility	STM-19-004	85,000
Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-001	435,000
High Trestle Trail Channel Stabilization-Phase 2	Storm Water Utility	STM-20-003	20,000
Tributary to Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-004	2,280,000
Westlawn Area Storm Sewer Improvements	Storm Water Utility	STM-20-005	300,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	570,000
South Ankeny Boulevard Transmission Main	Water Utility	WTM-18-001	2,010,000
South Ankeny Boulevard Water Main Improvements	Water Utility	WTM-19-001	90,000
NW State Street Water Main Improvements	Water Utility	WTM-19-003	70,000
Future NW Water Tower	Water Utility	WTT-19-002	6,803,000
SE Delaware Ground Storage Tank Repaint	Water Utility	WTT-20-001	300,000
Total for 2023			29,170,000

2024

Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
SE Frisk Drive RCB Culvert	Public Works	BRG-20-001	200,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
Annual PCC Street Patching Program	Public Works	STR-00-001	920,000
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	1,000,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	4,950,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	Public Works	STR-16-003	250,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	4,575,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	Public Works	STR-19-004	100,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	450,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	1,025,000
Otter Creek Trunk Sewer-Phase 4	Sewer Utility	SNS-12-001	918,000
Four Mile Creek Trunk Sewer	Sewer Utility	SNS-20-001	140,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Sawgrass Park Dam Improvements	Storm Water Utility	STM-19-004	405,000
High Trestle Trail Channel Stabilization-Phase 2	Storm Water Utility	STM-20-003	215,000
Westlawn Area Storm Sewer Improvements	Storm Water Utility	STM-20-005	1,625,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	520,000
Purchase Capacity in Saylorville Feeder Main	Water Utility	WTM-17-008	710,000
South Ankeny Boulevard Water Main Improvements	Water Utility	WTM-19-001	970,000
NW State Street Water Main Improvements	Water Utility	WTM-19-003	880,000
SE Magazine Ground Storage Tank Repaint	Water Utility	WTT-20-002	400,000
Total for 2024			21,603,000

GRAND TOTAL

149,465,870

City of Ankeny, Iowa
2020 - 2024 Capital Improvement Program
2020 thru 2024

FUNDING SOURCE SUMMARY

Source	2020	2021	2022	2023	2024	Total
Ankeny Community Foundation	36,837					36,837
Capital Project Fund	8,434,000	510,000	1,430,000	2,500,000	425,000	13,299,000
Capital Reserve Fund	4,439,700	3,985,000				8,424,700
County Contributions	3,550,000					3,550,000
FHWA/IDOT Grants	1,896,446	400,000	250,000	775,000		3,321,446
G.O. Bonds	8,325,666	9,397,667	9,137,500	9,420,000	10,320,000	46,600,833
G.O. Bonds - Storm Water Abated	881,000	545,000	1,920,000	2,720,000	1,845,000	7,911,000
G.O. Bonds - TIF Abated	2,623,554	1,425,000	1,725,000			5,773,554
General Fund	343,000	150,000				493,000
Hotel/Motel Tax Fund	50,000	415,000	187,500	80,000		732,500
IDNR/REAP Grants		200,000				200,000
MPO/STBG Grants		1,965,000	1,265,000	600,000	2,500,000	6,330,000
Other Grants	110,000					110,000
Park Dedication Fund	50,000	50,000	50,000	50,000	50,000	250,000
Private Contributions	1,920,000	1,000,000				2,920,000
Road Use Tax Fund	1,140,000	1,705,000	335,000	175,000	675,000	4,030,000
Sewer Fund	1,311,000	3,171,000	925,000	2,357,000	1,658,000	9,422,000
Special Assessments		1,114,000				1,114,000
Storm Water Fund	250,000	650,000	650,000	650,000	650,000	2,850,000
Water Fund	500,000	500,000	500,000	570,000	520,000	2,590,000
Water Revenue Bonds	3,350,000	3,957,000	9,967,000	9,273,000	2,960,000	29,507,000
GRAND TOTAL	39,211,203	31,139,667	28,342,000	29,170,000	21,603,000	149,465,870

City of Ankeny, Iowa
2020 - 2024 Capital Improvement Program
 2020 thru 2024

PROJECTS BY FUNDING SOURCE

Source	Project #	2020	2021	2022	2023	2024	Total
Ankeny Community Foundation							
Ankeny Market & Pavilion	PRK-13-001	36,837					36,837
Ankeny Community Foundation Total		36,837					36,837
Capital Project Fund							
Ankeny Public Services Library Remodel	BLD-16-001	4,700,000					4,700,000
Senior Community Center	BLD-18-003	350,000					350,000
NE Four Mile Drive RCB Culvert-Deer Creek	BRG-17-001	935,000					935,000
Annual Park Development Program	PRK-00-002	310,000					310,000
Ankeny Kirkendall Public Library Playground	PRK-20-007	180,000					180,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	125,000					125,000
Annual Sanitary Sewer Replacement Program	SNS-00-001	545,000	120,000	555,000		425,000	1,645,000
Annual Storm Water Replacement Program	STM-00-001	25,000					25,000
North Creek Channel Flood Repair	STM-19-002	69,000					69,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006			725,000	2,500,000		3,225,000
Annual Water Main Replacement Program	WTM-00-001	190,000	390,000	150,000			730,000
SE Magazine Road Water Main Improvements	WTM-17-003	635,000					635,000
Irvinedale Drive Transmission Main-Phase 3	WTM-17-007	160,000					160,000
NW 36th Street and NW Weigel Drive Water Main	WTM-20-001	120,000					120,000
SW Water Tower Interior Repaint	WTT-19-001	90,000					90,000
Capital Project Fund Total		8,434,000	510,000	1,430,000	2,500,000	425,000	13,299,000
Capital Reserve Fund							
Ankeny Public Services Library Remodel	BLD-16-001	164,000					164,000
Park Maintenance Facility Renovations	BLD-18-001	625,000	625,000				1,250,000
Senior Community Center	BLD-18-003	1,026,000	2,800,000				3,826,000
HVAC Replacement-City Hall	BLD-18-004	119,000	560,000				679,000
Art Center Foundation Repairs	BLD-19-001	175,000					175,000
City Hall Council Chambers Renovation	BLD-20-001	330,700					330,700
Fire Station No. 4	BLD-20-002	150,000					150,000
Signature Park	PRK-20-006	1,850,000					1,850,000
Capital Reserve Fund Total		4,439,700	3,985,000				8,424,700
County Contributions							
Senior Community Center	BLD-18-003	3,500,000					3,500,000
Annual Traffic Signal Improvement Program	TRF-00-001	50,000					50,000
County Contributions Total		3,550,000					3,550,000
FHWA/IDOT Grants							
West 1st Street Widening and Improvements-Phase 1	STR-16-004		250,000	250,000			500,000

Source	Project #	2020	2021	2022	2023	2024	Total
SE Hulsizer Road Realignment	STR-18-007	851,446					851,446
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006				75,000		75,000
S Ankeny Blvd and Magazine Rd Safety Improvements	STR-19-007		150,000				150,000
SE Crosswinds Drive/SE 77th Street Improvements	STR-19-008	1,000,000					1,000,000
SW Oralabor Rd and SW State St Safety Improvements	STR-20-008				700,000		700,000
Annual Traffic Signal Improvement Program	TRF-00-001	45,000					45,000
FHWA/IDOT Grants Total		1,896,446	400,000	250,000	775,000		3,321,446

G.O. Bonds

SE Frisk Drive RCB Culvert	BRG-20-001					200,000	200,000
Annual Park Development Program	PRK-00-002	550,000	300,000	300,000	300,000	300,000	1,750,000
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	325,000					325,000
Hawkeye Park-Tennis Courts Renovation	PRK-18-003				700,000		700,000
Dog Park Parking Lot Expansion	PRK-20-003	125,000					125,000
Hawkeye Park-Pickleball Courts	PRK-20-004			330,000			330,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	100,000	225,000	225,000	225,000	225,000	1,000,000
High Trestle Trail Extension-Magazine to Oralabor	SDW-16-001	150,000	925,000				1,075,000
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	940,000	1,115,000	1,050,000	970,000	920,000	4,995,000
Annual Asphalt Street Resurfacing Program	STR-00-002	190,000	150,000	150,000	150,000	150,000	790,000
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	815,000		740,000	950,000	450,000	2,955,000
E 1st Street and I-35 Interchange Reconstruction	STR-11-004	966,666	666,667				1,633,333
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006		250,000		1,475,000	2,450,000	4,175,000
NW 18th Street Extension-Weigel to Spruce	STR-16-002	460,000	2,886,000				3,346,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003				75,000	250,000	325,000
North Ankeny Boulevard Landscaping Improvements	STR-18-001	50,000	370,000	107,500			527,500
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003			75,000	425,000	4,575,000	5,075,000
NW 18th Street Extension-Spruce to Highway 415	STR-18-004				500,000		500,000
Prairie Ridge Sports Complex-Parking Lot Access	STR-18-005		25,000	100,000	600,000		725,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	STR-19-004					100,000	100,000
SW State Street Reconstruction-Ordinance to 1st St	STR-19-005	1,275,000					1,275,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006				100,000		100,000
S Ankeny Blvd and Magazine Rd Safety Improvements	STR-19-007	60,000					60,000
West 1st Street Joint Utility Trench	STR-20-001	495,000					495,000
NW 26th Street Widening	STR-20-002		250,000				250,000
NW 36th St and NW State St Interim Improvements	STR-20-003			50,000	490,000		540,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	STR-20-004		200,000	1,675,000			1,875,000
NW 36th Street Widening- Ash to Ankeny Blvd	STR-20-005	40,000	275,000	2,600,000			2,915,000
SE Delaware Avenue Widening	STR-20-006	15,000	75,000	650,000			740,000
SE Delaware Ave and SE Corp Woods Dr Intersection	STR-20-007	60,000	540,000				600,000
SW Oralabor Rd and SW State St Safety Improvements	STR-20-008	35,000		140,000	820,000		995,000
West 1st Street Temporary Traffic Signals	STR-20-009	125,000					125,000
Annual Traffic Signal Improvement Program	TRF-00-001	1,065,000	895,000	485,000	450,000	450,000	3,345,000
G.O. Bonds Total		8,325,666	9,397,667	9,137,500	9,420,000	10,320,000	46,600,833

G.O. Bonds - Storm Water Abated

Wildflower Detention Basin Improvements	STM-18-002	480,000					480,000
North Creek Channel Flood Repair	STM-19-002	241,000					241,000
Sawgrass Park Dam Improvements	STM-19-004				85,000	405,000	490,000

Source	Project #	2020	2021	2022	2023	2024	Total
Four Mile Creek Channel Stabilization	STM-20-001			55,000	435,000		490,000
High Trestle Trail Channel Stabilization-Phase 1	STM-20-002		160,000	1,190,000			1,350,000
High Trestle Trail Channel Stabilization-Phase 2	STM-20-003				20,000	215,000	235,000
Tributary to Four Mile Creek Channel Stabilization	STM-20-004		25,000	280,000	1,880,000		2,185,000
Westlawn Area Storm Sewer Improvements	STM-20-005			35,000	300,000	1,225,000	1,560,000
SE 3rd Street Area Storm Sewer Improvements	STM-20-006	160,000	360,000	360,000			880,000
G.O. Bonds - Storm Water Abated Total		881,000	545,000	1,920,000	2,720,000	1,845,000	7,911,000

G.O. Bonds - TIF Abated

West 1st Street Widening and Improvements-Phase 1	STR-16-004	410,000	1,425,000	1,725,000	3,560,000
SE Hulsizer Road Realignment	STR-18-007	2,213,554			2,213,554
G.O. Bonds - TIF Abated Total		2,623,554	1,425,000	1,725,000	5,773,554

General Fund

HVAC Replacement-City Hall	BLD-18-004	98,000		98,000
Older Parks Renovation Plan	PRK-17-003	245,000	150,000	395,000
General Fund Total		343,000	150,000	493,000

Hotel/Motel Tax Fund

Community Entrance Signs	BLD-18-002	45,000	80,000	80,000	205,000
North Ankeny Boulevard Landscaping Improvements	STR-18-001	50,000	370,000	107,500	527,500
Hotel/Motel Tax Fund Total		50,000	415,000	187,500	732,500

IDNR/REAP Grants

High Trestle Trail Extension-Magazine to Oralabor	SDW-16-001	200,000	200,000
IDNR/REAP Grants Total		200,000	200,000

MPO/STBG Grants

High Trestle Trail Extension-Magazine to Oralabor	SDW-16-001	700,000				700,000
Oralabor Gateway Trail-SW State Street Overpass	SDW-19-001			600,000		600,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006				2,500,000	2,500,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	1,265,000	1,265,000			2,530,000
MPO/STBG Grants Total		1,965,000	1,265,000	600,000	2,500,000	6,330,000

Other Grants

North Creek Channel Flood Repair	STM-19-002	110,000	110,000
Other Grants Total		110,000	110,000

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

Private Contributions

Source	Project #	2020	2021	2022	2023	2024	Total
Senior Community Center	BLD-18-003		1,000,000				1,000,000
SE Crosswinds Drive/SE 77th Street Improvements	STR-19-008	1,820,000					1,820,000
West 1st Street Joint Utility Trench	STR-20-001	100,000					100,000
Private Contributions Total		1,920,000	1,000,000				2,920,000
Road Use Tax Fund							
Annual Sidewalk/Trail Construction Program	SDW-00-001	125,000	125,000	125,000	125,000	125,000	625,000
Annual Street Replacement Program	STR-00-004	985,000	1,450,000	210,000	50,000	550,000	3,245,000
S Ankeny Blvd and SW Oralabor Rd Safety Studies	STR-18-006	30,000					30,000
S Ankeny Blvd and Magazine Rd Safety Improvements	STR-19-007		130,000				130,000
Road Use Tax Fund Total		1,140,000	1,705,000	335,000	175,000	675,000	4,030,000
Sewer Fund							
Annual Sanitary Sewer Replacement Program	SNS-00-001	500,000	600,000	600,000	575,000	600,000	2,875,000
Otter Creek Trunk Sewer-Phase 3	SNS-11-001			325,000	1,600,000		1,925,000
Otter Creek Trunk Sewer-Phase 4	SNS-12-001				182,000	918,000	1,100,000
Sanitary Sewer Repairs	SNS-19-001	272,000					272,000
Four Mile Creek Trunk Sewer	SNS-20-001					140,000	140,000
SE 3rd Street Trunk Sewer Extension	SNS-20-002	104,000	1,296,000				1,400,000
West Outfall Basin Sanitary Sewer Improvements	SNS-20-003	175,000	1,275,000				1,450,000
NW Northlawn Area Sanitary Sewer Improvements	SNS-20-004	260,000					260,000
Sewer Fund Total		1,311,000	3,171,000	925,000	2,357,000	1,658,000	9,422,000
Special Assessments							
NW 18th Street Extension-Weigel to Spruce	STR-16-002		1,114,000				1,114,000
Special Assessments Total			1,114,000				1,114,000
Storm Water Fund							
Annual Storm Water Replacement Program	STM-00-001	250,000	250,000	250,000	250,000	250,000	1,250,000
Tributary to Four Mile Creek Channel Stabilization	STM-20-004				400,000		400,000
Westlawn Area Storm Sewer Improvements	STM-20-005					400,000	400,000
SE 3rd Street Area Storm Sewer Improvements	STM-20-006		400,000	400,000			800,000
Storm Water Fund Total		250,000	650,000	650,000	650,000	650,000	2,850,000
Water Fund							
Annual Water Main Replacement Program	WTM-00-001	500,000	500,000	500,000	570,000	520,000	2,590,000
Water Fund Total		500,000	500,000	500,000	570,000	520,000	2,590,000
Water Revenue Bonds							
E 1st Street and I-35 Interchange Reconstruction	STR-11-004	750,000					750,000
High Trestle Trail Transmission Main	WTM-17-001		250,000	4,000,000			4,250,000
Irvinedale Drive Transmission Main-Phase 2	WTM-17-006	2,500,000					2,500,000
Irvinedale Drive Transmission Main-Phase 3	WTM-17-007		1,940,000				1,940,000
Purchase Capacity in Saylorville Feeder Main	WTM-17-008					710,000	710,000
South Ankeny Boulevard Transmission Main	WTM-18-001			165,000	2,010,000		2,175,000
South Ankeny Boulevard Water Main Improvements	WTM-19-001				90,000	970,000	1,060,000

Source	Project #	2020	2021	2022	2023	2024	Total
NW Irvinedale Drive Water Main	WTM-19-002	100,000					100,000
NW State Street Water Main Improvements	WTM-19-003				70,000	880,000	950,000
NW 36th Street and NW Weigel Drive Water Main	WTM-20-001		1,355,000				1,355,000
SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002		112,000	1,352,000			1,464,000
Aquifer Storage and Recovery #1 Replacement	WTT-17-002		300,000	4,150,000			4,450,000
Future NW Water Tower	WTT-19-002			300,000	6,803,000		7,103,000
SE Delaware Ground Storage Tank Repaint	WTT-20-001				300,000		300,000
SE Magazine Ground Storage Tank Repaint	WTT-20-002					400,000	400,000
Water Revenue Bonds Total		3,350,000	3,957,000	9,967,000	9,273,000	2,960,000	29,507,000
GRAND TOTAL		39,211,203	31,139,667	28,342,000	29,170,000	21,603,000	149,465,870

Section 4

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	BLD-16-001
Project Name	Ankeny Public Services Library Remodel

Description

The Ankeny Kirkendall Public Library is nearly completed, and the renovation of the existing library into the new Ankeny Public Services Building is ready for construction. The 26,000 SF facility will be completely 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, turn lane and building entry improvements are included with the site improvements.

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. With the continued growth of Ankeny, more and better office facilities are a must.

Expenditures	2020	2021	2022	2023	2024	Total
Architect	374,000					374,000
Construction Costs	4,000,000					4,000,000
Furniture, Fixtures & Equipment	490,000					490,000
Total	4,864,000					4,864,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	4,700,000					4,700,000
Capital Reserve Fund	164,000					164,000
Total	4,864,000					4,864,000

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	2020	2021	2022	2023	2024	Total
Maintenance Costs		6,000	6,000	6,000	6,000	24,000
Utilities		12,000	12,000	12,000	12,000	48,000
Total		18,000	18,000	18,000	18,000	72,000

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Project # BLD-16-001

Project Name Ankeny Public Services Library Remodel



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 Renovations

Description
Renovate and expand the current Park Maintenance Facility.

Justification
<p>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-four 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. 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 facility to better accommodate Ankeny's growth and needed space requirements.</p> <p>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 current and future support vehicles. Phase I includes the 80'x50' metal building addition, new sanitary and water services, and storm water management. Phase II work includes renovating the office area, break room, restrooms, and parking lot.</p> <p>The City of Ankeny is currently in a Professional Services Agreement with ASK Studio in the amount of \$110,000 for the approved renovation project.</p>

Expenditures	2020	2021	2022	2023	2024	Total
Architect	25,000	25,000				50,000
Construction Costs	600,000	600,000				1,200,000
Total	625,000	625,000				1,250,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Reserve Fund	625,000	625,000				1,250,000
Total	625,000	625,000				1,250,000

Budget Impact/Other
Maintenance and operating costs for Phase I will be due to the new building addition. The costs for Phase II will be insignificant as this phase of construction will be renovations, which will ultimately include some overall cost savings with improved energy efficiencies.

Budget Items	2020	2021	2022	2023	2024	Total
Utilities		8,600				8,600
Total		8,600				8,600

City of Ankeny, Iowa

2020 *thru* 2024

Department Parks and Recreation

Contact Assistant City Manager

Project # **BLD-18-001**

Project Name	Park Maintenance Facility Renovations
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2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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. Landscaping around the two interstate signs was completed in 2019. Additional smaller signs are planned for future construction. Assuming 8 smaller signs are constructed:

- A feasibility study with final council approval of sign locations will need to be completed.
- Property acquisitions/permits will need to be obtained with Iowa DOT approvals.
- Four signs will be completed in each of two years after design, approvals and easement acquisitions as needed.

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	2020	2021	2022	2023	2024	Total
Engineering-Design		25,000				25,000
Construction Costs			80,000	80,000		160,000
Land/ROW Acquisition		20,000				20,000
Total		45,000	80,000	80,000		205,000

Funding Sources	2020	2021	2022	2023	2024	Total
Hotel/Motel Tax Fund		45,000	80,000	80,000		205,000
Total		45,000	80,000	80,000		205,000

Budget Impact/Other

The two large interstate signs 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	2020	2021	2022	2023	2024	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

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Project # BLD-18-002

Project Name Community Entrance Signs



city of
Ankeny

bringing it all together

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 Community Center

Description

Proposed construction of an 11,700 SF senior center within Ankeny. The proposed building will include facilities for serving senior citizens of the community. Anticipated uses include congregate meals by Polk County, providing an indoor walking facility, other recreation facilities, and meeting rooms. The project scope includes the construction of the building on the south side of NW Ash Drive next to Fire Station No. 1. The Park and Ride lot will be improved and utilized for this building.

The relocation of part of the geothermal field for Fire Station No. 1 will be completed before the main project commences.

Justification

There is a definite 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 from a local developer and Polk County. There is no similar facility within Ankeny, and the population of the citizenry continues to trend older.

Expenditures	2020	2021	2022	2023	2024	Total
Consultant	19,000					19,000
Architect	607,000					607,000
Construction Costs	4,250,000	3,500,000				7,750,000
Furniture, Fixtures & Equipment		300,000				300,000
Total	4,876,000	3,800,000				8,676,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	350,000					350,000
Capital Reserve Fund	1,026,000	2,800,000				3,826,000
County Contributions	3,500,000					3,500,000
Private Contributions		1,000,000				1,000,000
Total	4,876,000	3,800,000				8,676,000

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.

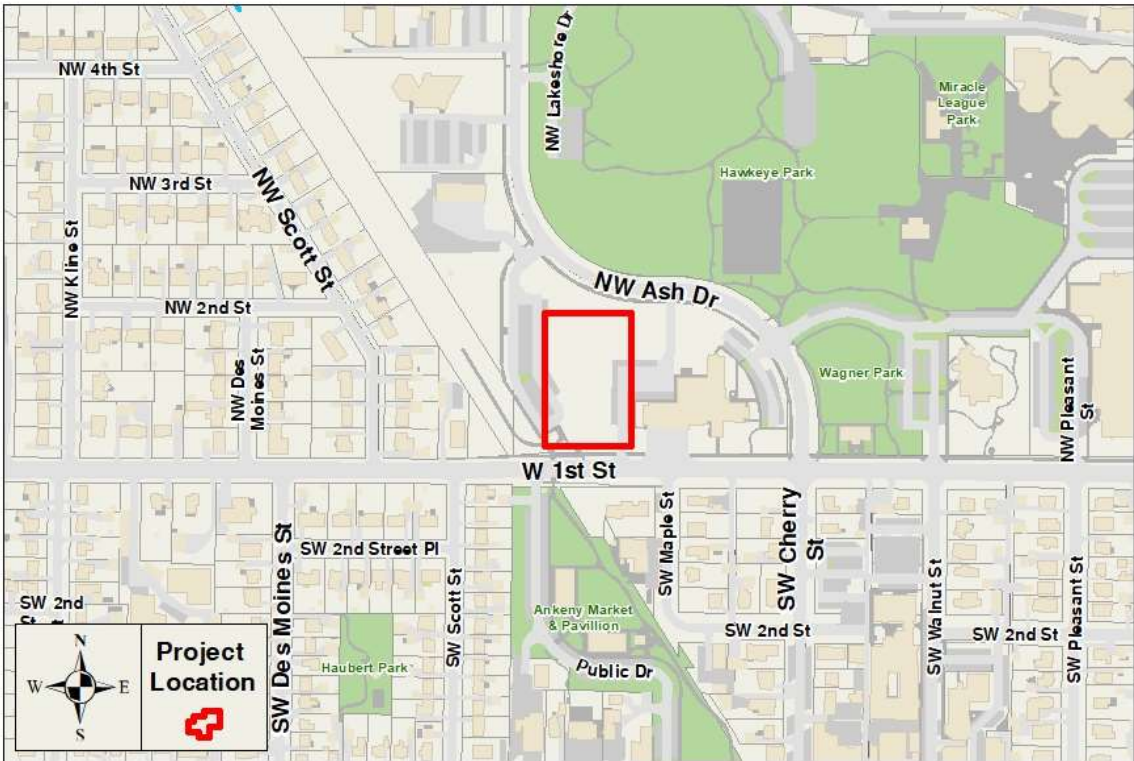
Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs		2,000	6,000	6,000	6,000	20,000
Utilities		4,000	12,000	12,000	12,000	40,000
Total		6,000	18,000	18,000	18,000	60,000

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 *thru* 2024

Department Administration
Contact Assistant City Manager

Project #	BLD-18-003
Project Name	Senior Community Center



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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	2020	2021	2022	2023	2024	Total
Consultant	27,000					27,000
Architect	25,000					25,000
Construction Costs	65,000	285,000				350,000
Vehicle/Equipment	100,000	275,000				375,000
Total	217,000	560,000				777,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Reserve Fund	119,000	560,000				679,000
General Fund	98,000					98,000
Total	217,000	560,000				777,000

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.

City of Ankeny, Iowa

2020 *thru* 2024

Department Administration

Contact Assistant City Manager

Project # **BLD-18-004**

Project Name HVAC Replacement-City Hall



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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

Interior and exterior improvements to fix the serious drainage issues at the Ankeny Art Center. Contemplated improvements include a new perimeter tile drain, new sump pumps, new interior footing drains and piping, and foundation work to eliminate the wet conditions and ponding in the basement of the facility.

Justification

City management has identified the need to make repairs to this city-owned facility that houses the Ankeny Art Center. The serious drainage issues pose a health hazard to the occupants of the building. Art classes are regularly held in the basement of the facility.

Expenditures	2020	2021	2022	2023	2024	Total
Construction Costs	150,000					150,000
Vehicle/Equipment	25,000					25,000
Total	175,000					175,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Reserve Fund	175,000					175,000
Total	175,000					175,000

Budget Impact/Other

The proposed improvements should not change the amount of maintenance/upkeep that the building requires.

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Administration
Contact Assistant City Manager

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	BLD-20-001
Project Name	City Hall Council Chambers Renovation

Description
Repurposing of the council chambers within City Hall after the council moves to the new chambers located within the new library. The chambers will be repurposed into the utility billing department. The lobby will be renovated and the chambers conference room will be enlarged. Improvements include three new reception desks, a new bathroom, relocation of the current reception area, new card access and detectors for exterior doors, work stations, security cameras throughout the building, FF&E, and associated improvements.

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 will be replaced as part of a separate project. The carpet and painted surfaces in the building are deteriorated and in need of updating.

Expenditures	2020	2021	2022	2023	2024	Total
Architect	30,700					30,700
Construction Costs	300,000					300,000
Total	330,700					330,700
Funding Sources	2020	2021	2022	2023	2024	Total
Capital Reserve Fund	330,700					330,700
Total	330,700					330,700

Budget Impact/Other
No impact expected.

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 *thru* 2024

Department Administration
Contact Assistant City Manager

Project #	BLD-20-001
Project Name	City Hall Council Chambers Renovation



2020 - 2024 Capital Improvement Program

2020 thru 2024

City of Ankeny, Iowa

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

Project #	BLD-20-002
Project Name	Fire Station No. 4

Description

Development of a fourth fire station in Ankeny. This station is targeted for the northwest quadrant of the City but a definite location has yet to be determined. The schedule at this time includes the property acquisition for the station in 2020 with design and construction starting in 2025. It is assumed that the design utilized for Stations No. 2 and No. 3 would be used on Station No. 4 as well.

Conceptual costs include:

\$150,000 for property acquisition, assuming 1.5-2 acres of open property can be acquired.
\$350,000 for architectural services within 5 years.
\$4,400,000 for construction within 5-6 years.

Justification

Ankeny continues to grow at a phenomenal rate with a large percentage of the growth occurring in the northwest quadrant of the City. As this growth continues, the travel times for emergency vehicles answering calls in this quadrant will increase to the point that a fourth station is needed here. With the opening of Fire Station No. 3 last year, the other three quadrants of the City now have good coverage and acceptable travel times for emergency calls.

Expenditures	2020	2021	2022	2023	2024	Total
Consultant	10,000					10,000
Land/ROW Acquisition	140,000					140,000
Total	150,000					150,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Reserve Fund	150,000					150,000
Total	150,000					150,000

Budget Impact/Other

Impacts will be determined when the station design commences.

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Project # BLD-20-002

Project Name Fire Station No. 4



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2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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-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	2020	2021	2022	2023	2024	Total
Engineering-Construction Services	85,000					85,000
Construction Costs	850,000					850,000
Total	935,000					935,000
Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	935,000					935,000
Total	935,000					935,000

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.

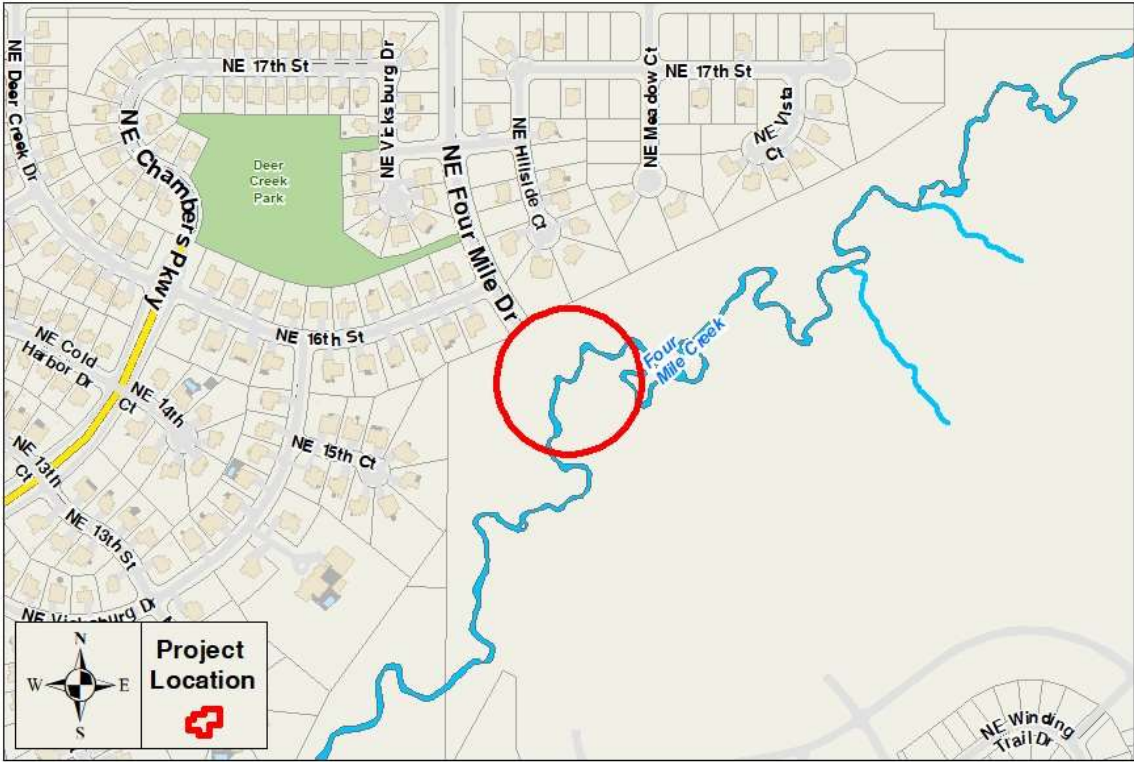
2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 thru 2024

Department Public Works
Contact City Engineer

Project #	BRG-17-001
Project Name	NE Four Mile Drive RCB Culvert-Deer Creek



2020 - 2024 Capital Improvement Program

2020 thru 2024

City of Ankeny, Iowa

Department Public Works
Contact City Engineer
Type New Construction
Useful Life 40 years
Category Bridge/Box Culvert

Project #	BRG-20-001
Project Name	SE Frisk Drive RCB Culvert

Description

This project will replace the existing bridge with a reinforced concrete box (RCB) culvert. The existing bridge is a single span 16’ arch bridge constructed of concrete and timber, and it is very old. The bridge is located south of East First Street on SE Frisk Drive, spanning a tributary stream to Four Mile Creek. This project includes engineering design, construction, and construction engineering services in 2024.

Justification

The 2018 Iowa Structure Inventory and Appraisal conducted by Calhoun-Burns & Associates recommended replacing the bridge within the next several years due to cracks, deterioration, and erosion. This project will replace the existing bridge with a reinforced concrete box (RCB) culvert. This project will include \$25,000 for design engineering, \$160,000 for construction, and \$15,000 for construction engineering services in 2024.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design					25,000	25,000
Engineering-Construction Services					15,000	15,000
Construction Costs					160,000	160,000
Total					200,000	200,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds					200,000	200,000
Total					200,000	200,000

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

2020 *thru* 2024

Department Public Works

Contact City Engineer

Project # **BRG-20-001**

Project Name SE Frisk Drive RCB Culvert



2020 - 2024 Capital Improvement Program

2020 thru 2024

City of Ankeny, Iowa

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

Project #	PRK-00-002
Project Name	Annual Park Development Program

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

2020

- Hawkeye Park Pond Improvements
 - Outlet Structure: \$35,000
 - Dredging, Trail Realignment, Shore Stabilization: \$350,000
 - Fishing Pier: \$175,000
- White Birch Park Shelter
- Georgetown Park Shelter
- Otter Creek Park Ball Diamond Installation
- Centennial Park Development - Phase I: master plan, storm water drainage and turf improvements

2021

- NE Bellagio Park Development: playground, trail connection, shelter, etc.

2022

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

2023-2024

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

Expenditures	2020	2021	2022	2023	2024	Total
Construction Costs	910,000	350,000	350,000	350,000	350,000	2,310,000
Total	910,000	350,000	350,000	350,000	350,000	2,310,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	310,000					310,000
G.O. Bonds	550,000	300,000	300,000	300,000	300,000	1,750,000
Park Dedication Fund	50,000	50,000	50,000	50,000	50,000	250,000
Total	910,000	350,000	350,000	350,000	350,000	2,310,000

Budget Impact/Other

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

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-00-002

Project Name Annual Park Development Program



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City of Ankeny, Iowa

2020 *thru* 2024

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

Justification

The \$2 million project was funded primarily through private donations and grants. Remaining projects for the site include the purchase of tables and chairs, fencing and additional seating.

Expenditures	2020	2021	2022	2023	2024	Total
Construction Costs	36,837					36,837
Total	36,837					36,837

Funding Sources	2020	2021	2022	2023	2024	Total
Ankeny Community Foundation	36,837					36,837
Total	36,837					36,837

Budget Impact/Other

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

Budget Items	2020	2021	2022	2023	2024	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

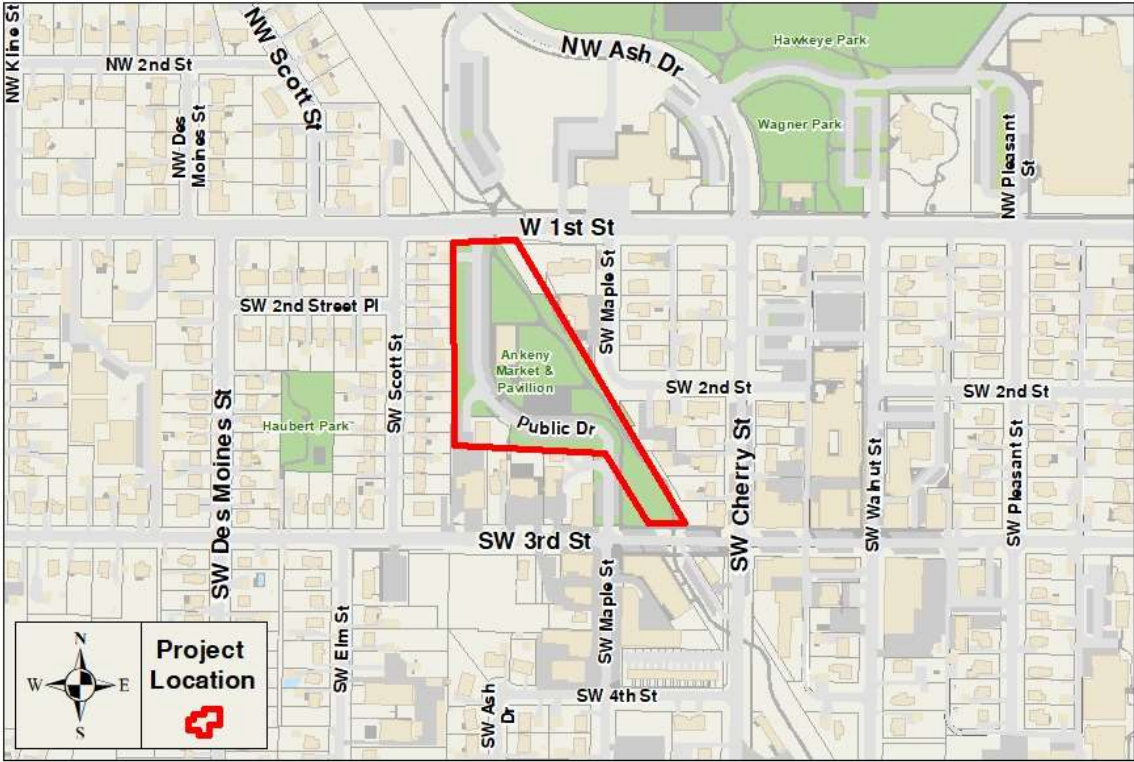
2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Parks and Recreation
Contact Parks and Recreation Director

Project #	PRK-13-001
Project Name	Ankeny Market & Pavilion



2020 - 2024 Capital Improvement Program

2020 thru 2024

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 and #36. Field #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 Prairie Ridge Sports 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. Field #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 save costs. This work will include earthwork, seeding and resetting of the irrigation heads, a total estimated savings of \$10,000 per field.

Expenditures	2020	2021	2022	2023	2024	Total
Construction Costs	80,000					80,000
Total	80,000					80,000
Funding Sources	2020	2021	2022	2023	2024	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.

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



City of Ankeny, Iowa

2020 *thru* 2024

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	2020	2021	2022	2023	2024	Total
Architect	18,000					18,000
Construction Costs	136,000					136,000
Total	154,000					154,000

Funding Sources	2020	2021	2022	2023	2024	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	2020	2021	2022	2023	2024	Total
Maintenance Costs	2,500	2,500	2,500	2,500	2,500	12,500
Total	2,500	2,500	2,500	2,500	2,500	12,500

City of Ankeny, Iowa

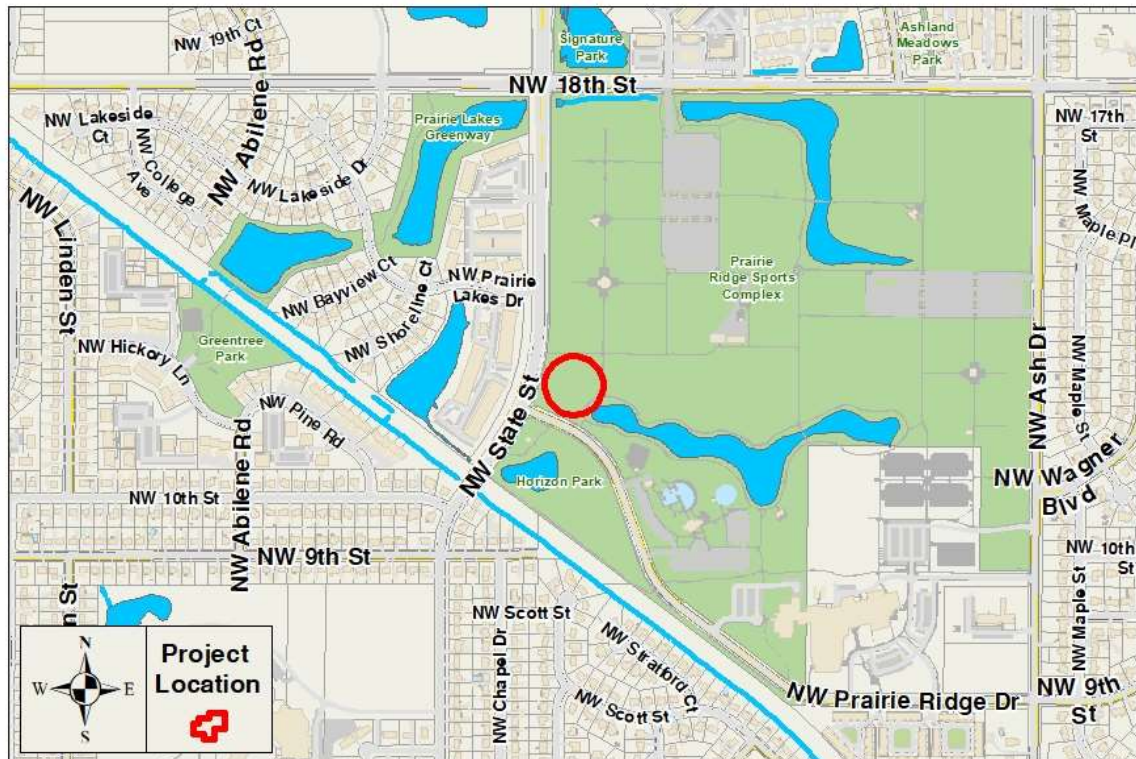
2020 *thru* 2024

Department Parks and Recreation

Contact Parks and Recreation Director

Project # **PRK-17-001**

Project Name **Prairie Ridge Sports Complex-Tee Ball Field**



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 were 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

2020 Renovation Projects Include:

- Resurface parking lot at Heritage Park - \$175,000 (contracted engineering)
- Overlay parking lot at Sunset Park □ \$20,000 (in-house engineering)
- Sunset Park ball diamond renovations - \$25,000 (in-house construction)
- Sunrise Park ball diamond renovations - \$25,000 (in-house construction)

2021 Renovation Projects Include:

- Replace interior east trail at Village Park - \$65,000 (in-house engineering)
- Add pedestrian trail loop at Wildflower - \$60,000 (in-house engineering)
- Add shelter at Wildflower Park □ \$25,000 (in-house engineering)

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	15,000					15,000
Construction Costs	230,000	150,000				380,000
Total	245,000	150,000				395,000

Funding Sources	2020	2021	2022	2023	2024	Total
General Fund	245,000	150,000				395,000
Total	245,000	150,000				395,000

Budget Impact/Other

The planned 2020 replacement projects will not increase operating and maintenance costs because they are replacing current amenities.

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-17-003

Project Name Older Parks Renovation Plan



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2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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
High Trestle Trail Trailhead and Parking Lot – NW Ankeny

Justification
This project is part of the required 6(f) conversion process to replace parkland that has been 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 Northwest Booster Station. The parking lot and trail access will provide neighboring residents and trail users a much needed feature in the northwest part of Ankeny. This project also incorporates completing the current trail gap along the east side of NW Irvinedale Drive both north and south of the High Trestle Trail. This project fulfills the 6(f) conversion requirements approved by the Iowa DNR Budget & Finance Bureau.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	30,000					30,000
Construction Costs	295,000					295,000
Total	325,000					325,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	325,000					325,000
Total	325,000					325,000

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	2020	2021	2022	2023	2024	Total
Maintenance Costs	1,500	1,500	1,500	1,500	1,500	7,500
Total	1,500	1,500	1,500	1,500	1,500	7,500

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

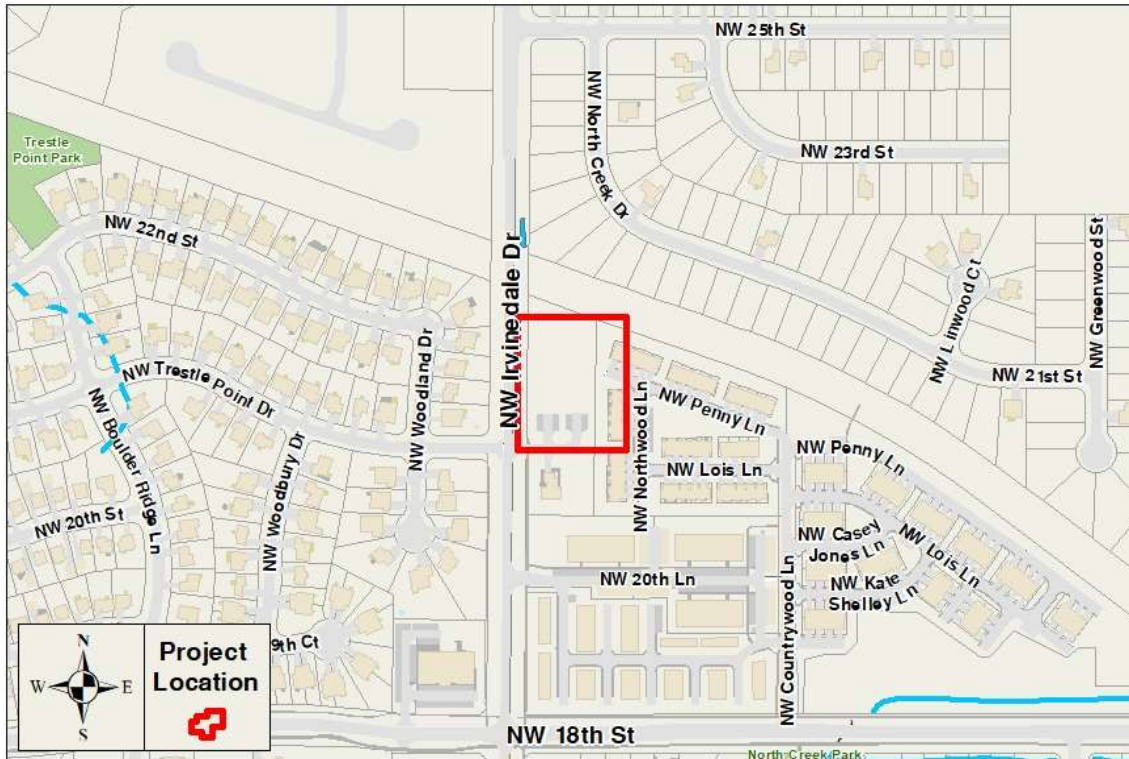
City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-18-001

Project Name High Trestle Trail Trailhead and Parking Lot



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	PRK-18-003
Project Name	Hawkeye Park-Tennis Courts Renovation

Description
Hawkeye Park Sports Complex Tennis Courts Renovation

Justification
<p>The playing surface on the Hawkeye Park Sports Complex tennis courts (six courts) are in fair condition. In 2008, the City contracted Tennis Surfaces of Iowa to provide a temporary playing surface instead of the traditional asphalt overlay (which was occurring every 5-7 years). This temporary surfacing material, attached to the subsurface asphalt with fiberglass, has done an adequate job providing a safe playing surface, but does not provide a true competitive tennis court surface. The Parks Department continues to receive many complaints on the alternate court surfacing currently in place. Additionally, with high school tennis in the spring taking precedence at the Prairie Ridge Sports Complex, the tennis community complains about the congestion and lack of quality courts available for the public to utilize. The proposed project would demo the existing playing surface and subsurface asphalt, provide a new rock subbase, 5” asphalt playing surface and new nets and posts. The new 5” asphalt depth would provide the community another sufficient tennis option and would prolong any needed repairs due to the surfaces freeze/thaw process.</p> <p>An alternate option to the complete renovation of the six courts would be to remove the current surface covering, repair any major cracks, do a 2” asphalt overly and install new nets and posts at an estimated cost of \$450,000. This option would require additional maintenance sooner than a complete surface reconstruction.</p>

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design				50,000		50,000
Construction Costs				650,000		650,000
Total				700,000		700,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds				700,000		700,000
Total				700,000		700,000

Budget Impact/Other
None, as this project renovates a current park amenity.

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-18-003

Project Name Hawkeye Park-Tennis Courts Renovation



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	PRK-20-003
Project Name	Dog Park Parking Lot Expansion

Description
Dog Park Parking Lot Expansion

Justification
As usage of the Dog Park continues to increase the current parking lot will need to expand to accommodate additional patrons. Currently, on busy days the parking lot reaches capacity and vehicles begin parking along SW Ankeny Road, creating safety concerns. The proposed project constructs an additional 20 stalls, thus nearly doubling the size of the current parking lot.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	12,000					12,000
Construction Costs	113,000					113,000
Total	125,000					125,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	125,000					125,000
Total	125,000					125,000

Budget Impact/Other
The operating impact will be minimal as Park staff already clear the current parking lot of snow. Re-striping will need to occur every three years.

Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs		500	500	500	500	2,000
Total		500	500	500	500	2,000

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-20-003

Project Name Dog Park Parking Lot Expansion



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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-20-004
Project Name	Hawkeye Park-Pickleball Courts

Description
Hawkeye Sports Complex – Pickleball Courts

Justification
Construct four outdoor pickleball courts at the Hawkeye Park Sports Complex. Pickleball has seen a 650% increase in the last six years, according to USA Pickleball Association. The biggest subset of that growth is not in the over-60 crowd, but in the younger demographic. Pickleball courts are routinely requested by Ankeny residents. Constructing outdoor permanent pickleball courts would meet a community need and provide opportunities for residents of all ages to participate in this popular growing sport. Currently, the Parks & Recreation Department offers pickleball leagues and tournaments utilizing temporary nets and courts. Both the leagues and tournaments continue to grow in popularity, with capacity limitations enforced due to available space. The addition of four permanent pickleball courts would allow for increased lessons, leagues and special events. The courts would be utilized by the community for free when not programmed, similar to area tennis courts.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design			30,000			30,000
Construction Costs			300,000			300,000
Total			330,000			330,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds			330,000			330,000
Total			330,000			330,000

Budget Impact/Other
The construction of four pickleball courts would have minimal operating impacts on the City.

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 *thru* 2024

Department Parks and Recreation
Contact Parks and Recreation Director

Project #	PRK-20-004
Project Name	Hawkeye Park-Pickleball Courts



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Parks and Recreation
Contact Assistant City Manager
Type Purchase
Useful Life 40 years
Category Park Facilities

Project #	PRK-20-006
Project Name	Signature Park

Description

Acquisition of 55-60 acres of undeveloped property located just to the east of Interstate 35 in the Deer Creek area for the development of a future second signature park for the City of Ankeny.

Justification

City management is exploring opportunities for acquiring property and ultimately developing a second signature park for the City. The Deer Creek area on the east side of the interstate has experienced robust growth recently. A park location in this area would have advantageous access to the interstate and would be spaced appropriately from the Prairie Ridge Sports Complex. This entry is a placeholder for the anticipated value of 55-60 acres should the opportunity to purchase land in this location present itself.

Expenditures	2020	2021	2022	2023	2024	Total
Land/ROW Acquisition	1,850,000					1,850,000
Total	1,850,000					1,850,000
Funding Sources	2020	2021	2022	2023	2024	Total
Capital Reserve Fund	1,850,000					1,850,000
Total	1,850,000					1,850,000

Budget Impact/Other

None at this time.

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Parks and Recreation

Contact Assistant City Manager

Project # PRK-20-006

Project Name Signature Park



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2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	PRK-20-007
Project Name	Ankeny Kirkendall Public Library Playground

Description
Construction of a small playground and related amenities at the new Ankeny Kirkendall Public Library location.

Justification
Community playgrounds offer a multitude of benefits that go far beyond aesthetics and giving kids something fun to do. They are the heart of a community and an indispensable gathering space that can benefit everyone. The available greenspace adjacent to the new Ankeny Kirkendall Public Library provides a great opportunity for a new playground where a captive audience of thousands of children will visit on an annual basis.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	20,000					20,000
Construction Costs	100,000					100,000
Vehicle/Equipment	60,000					60,000
Total	180,000					180,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	180,000					180,000
Total	180,000					180,000

Budget Impact/Other
None at this time.

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

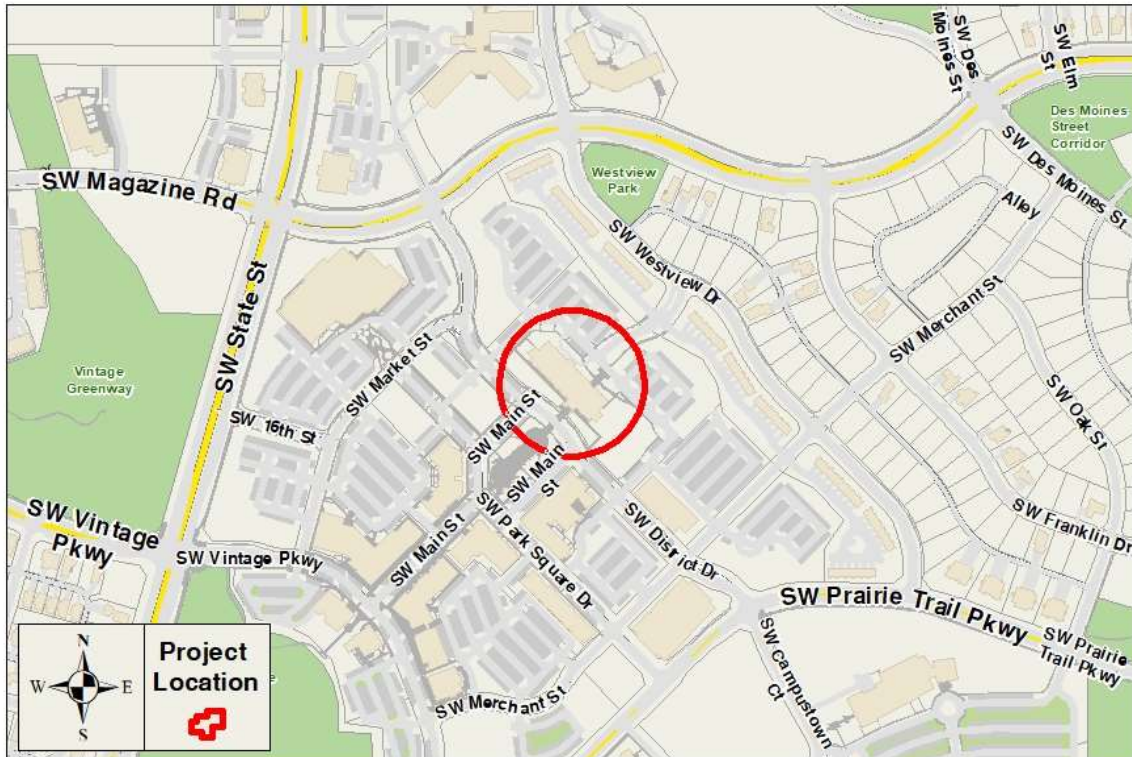
City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-20-007

Project Name Ankeny Kirkendall Public Library Playground



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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

<p>This program includes constructing pedestrian improvements adjacent to City streets:</p> <ul style="list-style-type: none">•Development sidewalk over-sizing, 2020 to 2024 - \$75,000/year (previous development agreements)•Sidewalk and pedestrian ramp gaps along City property & major streets, 2020 to 2024 - \$125,000/year (construction)•Pedestrian ramp improvements for ADA Compliance, 2020 to 2024 - \$125,000/year (construction)•8-ft. sidewalk and 10-ft. trail panel replacements, 2020 to 2024 - \$25,000/year (construction) <p>The projects that are constructed annually from this program are designed and inspected in-house by Public Works Engineering Division staff. Specific individual 8-ft. sidewalk and 10-ft. trail projects are typically designed by a consultant.</p>

Justification

<p>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 and sidewalk system.</p>
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Expenditures	2020	2021	2022	2023	2024	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	2020	2021	2022	2023	2024	Total
Capital Project Fund	125,000					125,000
G.O. Bonds	100,000	225,000	225,000	225,000	225,000	1,000,000
Road Use Tax Fund	125,000	125,000	125,000	125,000	125,000	625,000
Total	350,000	350,000	350,000	350,000	350,000	1,750,000

Budget Impact/Other

<p>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.</p>
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Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs	1,400	1,800	2,200	2,600	3,000	11,000
Total	1,400	1,800	2,200	2,600	3,000	11,000

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works

Contact City Engineer

Project # SDW-00-001

Project Name Annual Sidewalk/Trail Construction Program



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2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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-Magazine to Oralabor

Description

The construction of 1.65 miles of 10' PCC recreation trail along the High Trestle Trail corridor from SE Magazine Road to SE Oralabor Road. The project will include an overpass of SE Oralabor Road.

Justification

The extension of the trail is proposed in two phases. The trail is currently being extended from its current terminus at Ordnance Road southeast to Magazine Road. This segment includes a tunnel under Highway 69. The grading and utility work will be completed in 2019, and the tunnel trail construction is scheduled for 2020. The new project 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/Highway 160. The project will include a grade separated crossing (specifically an overpass) to navigate trail users over the high traffic volumes experienced on SE Oralabor Road/Highway 160. Staff will be working with the DOT and MPO to obtain as much external funding as possible for the project. Currently \$700,000 has been secured in external funding for the project through the Des Moines Area MPO Transportation Alternatives Program.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	150,000					150,000
Engineering-Construction Services		125,000				125,000
Construction Costs		1,700,000				1,700,000
Total	150,000	1,825,000				1,975,000

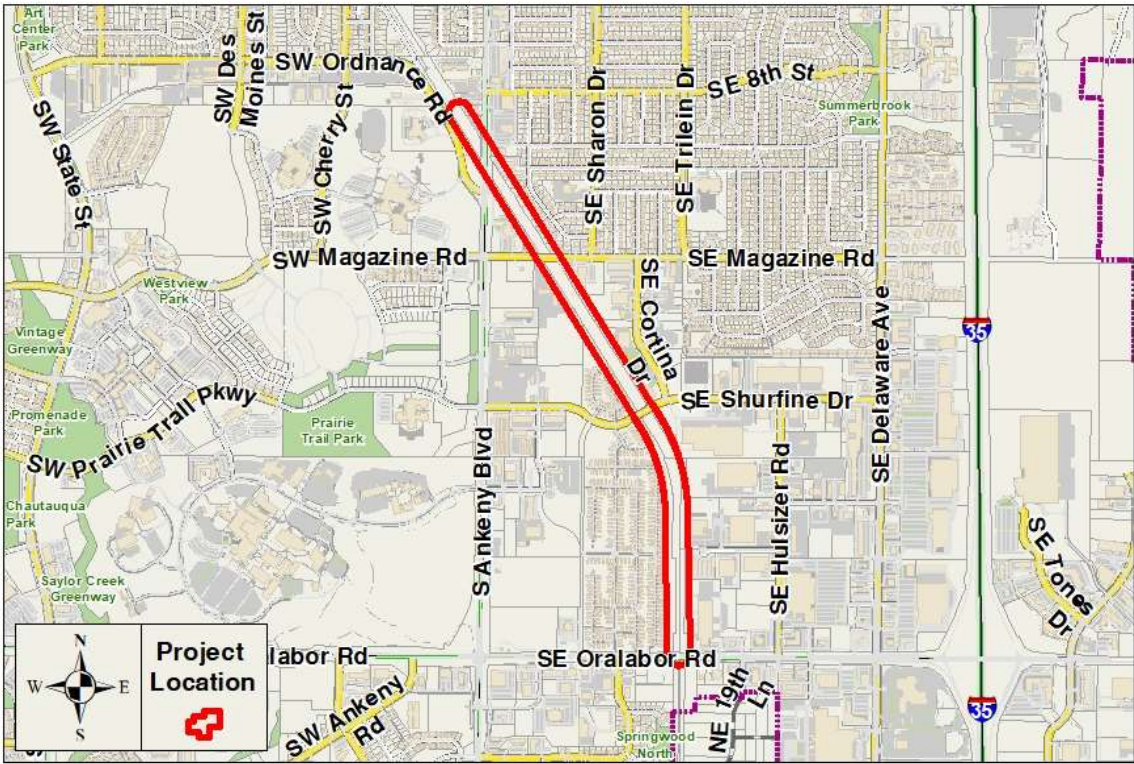
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	150,000	925,000				1,075,000
IDNR/REAP Grants		200,000				200,000
MPO/STBG Grants		700,000				700,000
Total	150,000	1,825,000				1,975,000

Budget Impact/Other

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

Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs	650	650	1,650	1,650	1,650	6,250
Total	650	650	1,650	1,650	1,650	6,250

Project #	SDW-16-001
Project Name	High Trestle Trail Extension-Magazine to Oralabor



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 overpass structure to provide a grade-separated crossing for the Oralabor Gateway Trail at the intersection of SW State Street and SW Oralabor Road. The proposed overpass will span the south leg of the intersection. The development of this project will need to be coordinated with the SW Oralabor Road and SW State Street Intersection Safety Improvements project.

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. The trail is very popular with recreational users and commuters. The current at-grade crossing at SW State Street is overly wide due to the rural environment and granular shoulders on SW State Street. The 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 higher probability of accidents between vehicles and pedestrians. The overpass at this location would eliminate this situation. To date, the project has received \$300,000 of STBG-TAP funding from the Des Moines Area MPO for construction in 2023. A 2024 request is currently being completed.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design			160,000			160,000
Engineering-Construction Services				140,000		140,000
Construction Costs				1,400,000		1,400,000
Land/ROW Acquisition			50,000			50,000
Total			210,000	1,540,000		1,750,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds			210,000	940,000		1,150,000
MPO/STBG Grants				600,000		600,000
Total			210,000	1,540,000		1,750,000

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.

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

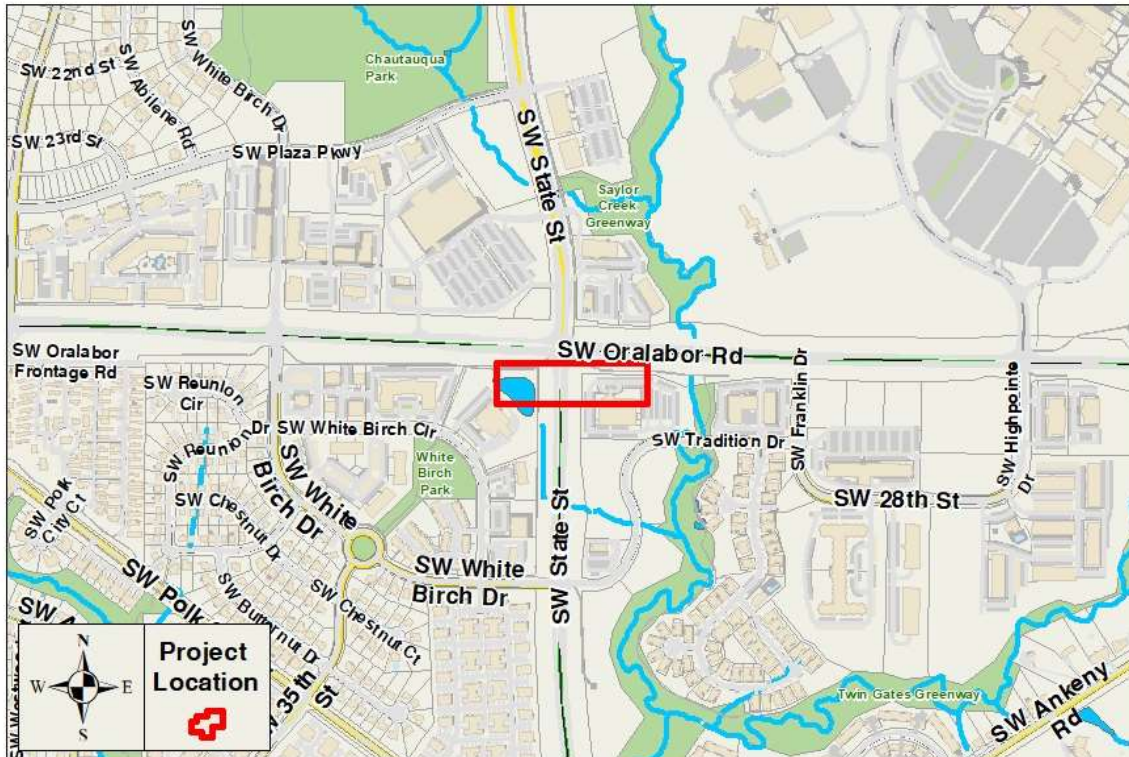
City of Ankeny, Iowa

Department Public Works

Contact Assistant City Manager

Project # SDW-19-001

Project Name Oralabor Gateway Trail-SW State Street Overpass



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 2020 to 2024 include:

- CIPP sanitary sewer lining: 2020, 2022 & 2024 - \$500,000
- Manhole major adjustments/repairs: 2020 to 2024 - \$25,000/year
- Sanitary sewer spot repairs: 2020 to 2024 - \$50,000/year
- Development sanitary sewer over-sizing: 2020 to 2024 - \$30,000/year
- I/3 SE Eastlawn Area Utility Improvements: 2020 - \$10,000 (engineering) \$380,000 (construction);
- I/3 NW Northlawn Area Utility Improvements (4 phases): 2020 - \$50,000 (engineering); 2021 - \$60,000 (engineering) \$555,000 (construction); 2022 - \$55,000 (engineering) \$495,000 (construction); 2023 - \$50,000 (engineering) \$420,000 (construction); 2024 - \$10,000 (engineering) \$410,000 (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, 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 lineal feet 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. CIPP lining reduces approximately 20% of the Inflow and Infiltration (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	2020	2021	2022	2023	2024	Total
Engineering-Design	60,000	60,000	55,000	50,000	10,000	235,000
Construction Costs	985,000	660,000	1,100,000	525,000	1,015,000	4,285,000
Total	1,045,000	720,000	1,155,000	575,000	1,025,000	4,520,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	545,000	120,000	555,000		425,000	1,645,000
Sewer Fund	500,000	600,000	600,000	575,000	600,000	2,875,000
Total	1,045,000	720,000	1,155,000	575,000	1,025,000	4,520,000

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 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. We will have staff time in reviewing sewer videos, locating services, jetting services, and field inspections. Additionally, there will be administrative time for planning and design work.

Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs	10,000	10,500	11,000	11,500	12,000	55,000
Total	10,000	10,500	11,000	11,500	12,000	55,000

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-00-001

Project Name Annual Sanitary Sewer Replacement Program



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2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 purpose of this project is to extend sanitary sewer service east and south to the area around NE 36th Street and NE Four Mile Drive.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design			145,000			145,000
Engineering-Construction Services				145,000		145,000
Construction Costs				1,455,000		1,455,000
Land/ROW Acquisition			180,000			180,000
Total			325,000	1,600,000		1,925,000
Funding Sources	2020	2021	2022	2023	2024	Total
Sewer Fund			325,000	1,600,000		1,925,000
Total			325,000	1,600,000		1,925,000

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.

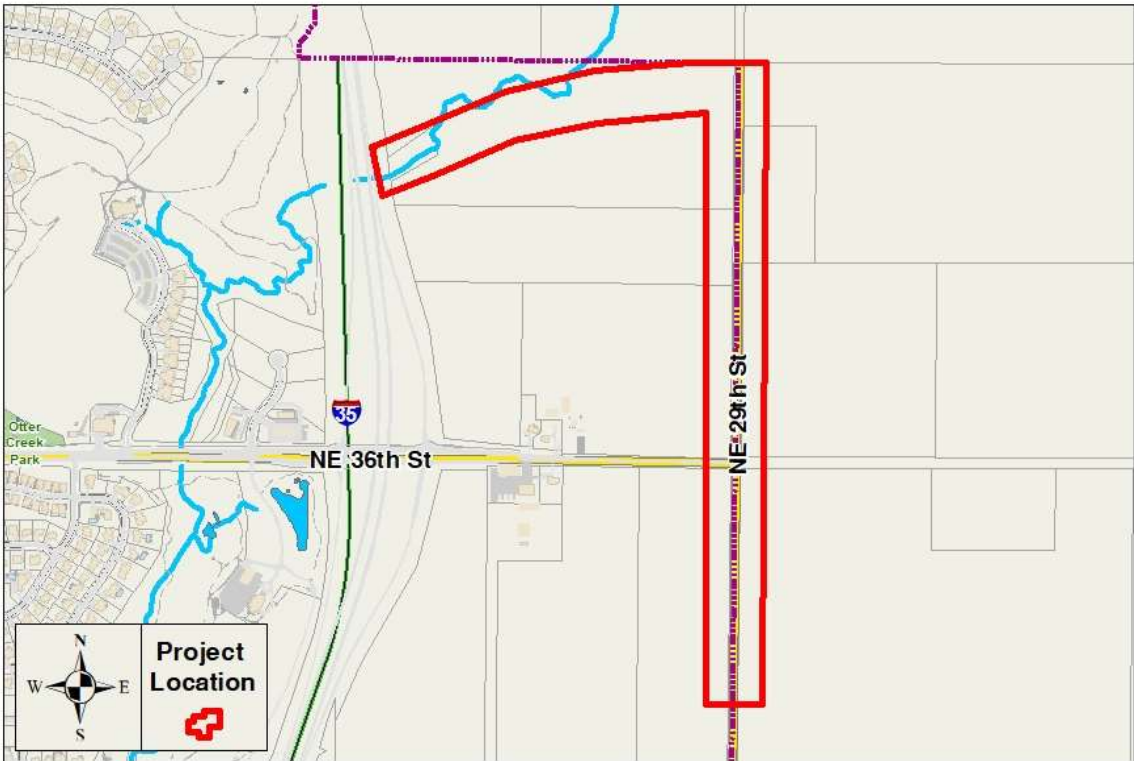
Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs			4,500	4,800		9,300
Total			4,500	4,800		9,300

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 thru 2024

Department Sewer Utility
Contact Municipal Utilities Director

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 purpose of this project is to extend sanitary sewer service north to the area around NE 54th Street and NE Four Mile Drive. The timing of this project will depend upon development in the area of the NE 36th Street interchange.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design				82,000		82,000
Engineering-Construction Services					82,000	82,000
Construction Costs					836,000	836,000
Land/ROW Acquisition				100,000		100,000
Total				182,000	918,000	1,100,000
Funding Sources	2020	2021	2022	2023	2024	Total
Sewer Fund				182,000	918,000	1,100,000
Total				182,000	918,000	1,100,000

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.

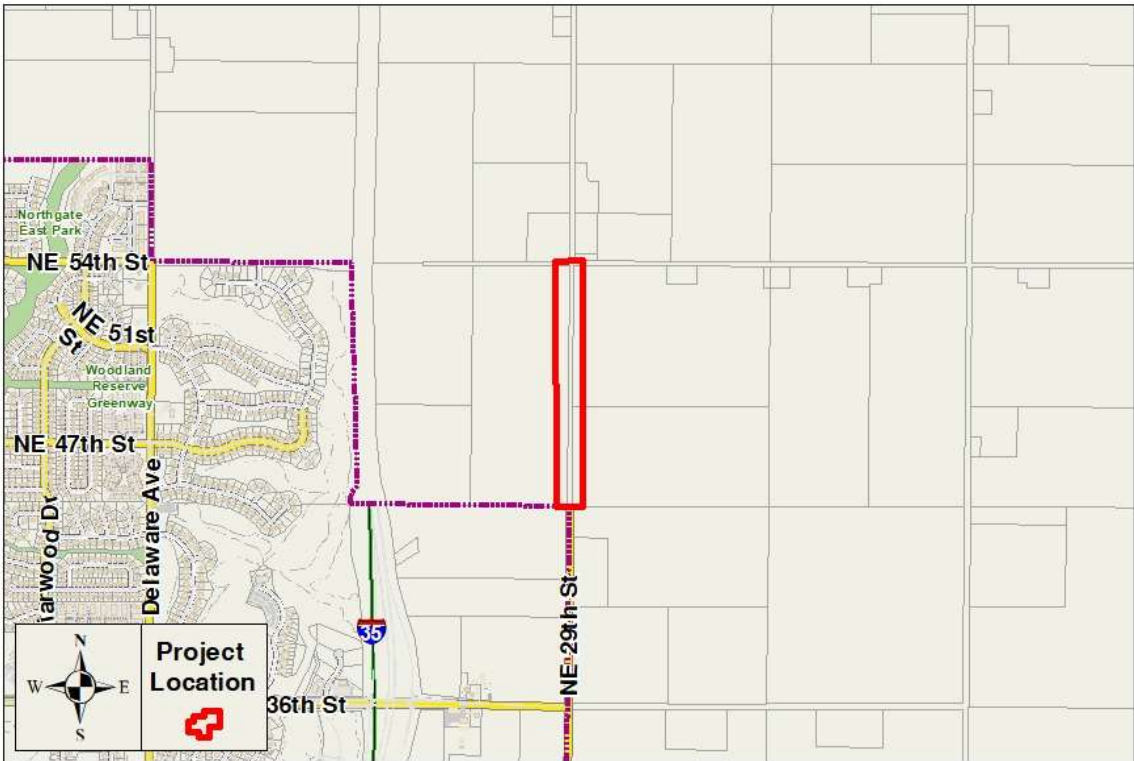
Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs				3,000	4,000	7,000
Total				3,000	4,000	7,000

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 *thru* 2024

Department Sewer Utility
Contact Municipal Utilities Director

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 Sanitary Sewer Repairs

Description

This project is a combination of three separate sanitary sewer projects with similar construction needs. The following are descriptions of all three:

Drop Connection Repair located on SW Arlan Drive between West 1st Street and SW 3rd Street consists of the replacement of a deteriorated drop structure into manhole 16I 43, along with incidental pipe repair.

NW Elm Lane/NW 18th Street Repair consists of pipe replacement/upsizing of an existing 8" diameter sanitary sewer to a 10" diameter pipe at the drop structure for manhole 13J 124, located at the intersection of NW Elm Lane and NW 18th Street.

SW State Street Sag Fix consists of the replacement of approximately 160 LF of sanitary sewer and two manholes, over existing pipe to eliminate a sag within the sanitary sewer system located just north of SW State Street and SW 9th Street Intersection.

Justification

The purpose of these projects is to eliminate areas that have been identified with known bottlenecks and/or sags within the sanitary sewer system that have been problematic in the past. This project will help eliminate potential basement backups, and surcharging of the upstream public system. Due to the intricate nature of these relatively small projects, construction costs are often elevated. By bidding all three projects together as one, the goal is to achieve significantly lower pricing than would be obtained individually.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	12,000					12,000
Construction Costs	260,000					260,000
Total	272,000					272,000
Funding Sources	2020	2021	2022	2023	2024	Total
Sewer Fund	272,000					272,000
Total	272,000					272,000

Budget Impact/Other

This segment of sanitary sewer located at NW Elm Lane/NW 18th Street 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. Anticipating that this fix will help relieve this segment of sewer, approximately 12 staff hours (for maintenance) will be reduced annually. The drop connection repair located on SW Arlan Drive was a segment that was previously scheduled for CIPP lining; however, due to the condition of the structure, lining of the pipe could not be achieved. This fix will provide the ability to line the pipe segment, and provide a more reliable segment of sewer. Additionally, the sag fix located at NW State Street/NW 9th Street has been in need of repair, and poses challenges from a cleaning and maintenance perspective. It is beneficial to repair this problematic area before it becomes an emergency repair.

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

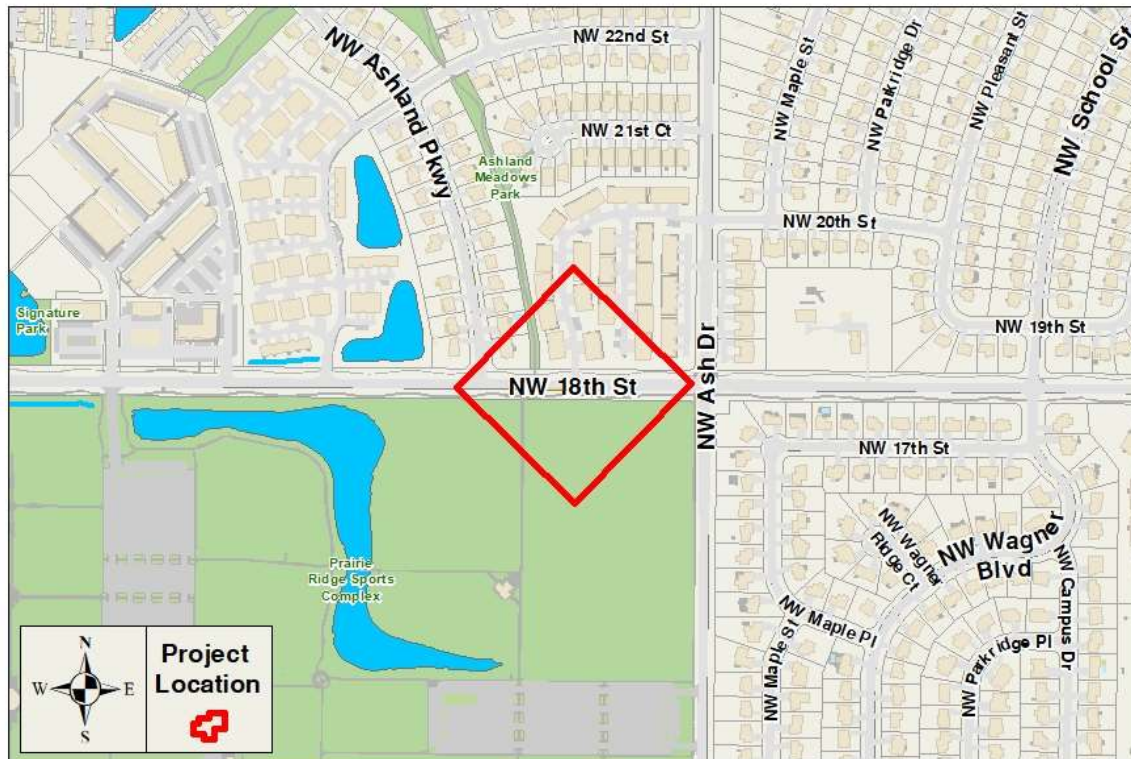
City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-19-001

Project Name Sanitary Sewer Repairs



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	SNS-20-001
Project Name	Four Mile Creek Trunk Sewer

Description
Install approximately 3,700 LF of 30" diameter sanitary trunk sewer from the existing 30" sanitary line at west side of Northgate Plat 3 on the north side of NE 54th Street to about 700' north of NE 62nd Street on the east side of North Ankeny Boulevard.

Justification
This project has become a need due to recent development and annexations north of NE 54th Street. This trunk line will serve a large portion of developable land north of 54th Street. The timing of this project will depend upon development on the property that was recently annexed north of Harvest Ridge Plat 1. The engineering cost is estimated to be \$140,000 and the construction cost is expected to be \$1,595,000 in 2025.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design					140,000	140,000
Total					140,000	140,000
Funding Sources	2020	2021	2022	2023	2024	Total
Sewer Fund					140,000	140,000
Total					140,000	140,000

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, which is expected to cost \$4,000 in 2025. There will also be 40 hours to review the construction plans and field questions during the design phase.

Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs					4,000	4,000
Total					4,000	4,000

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Sewer Utility
Contact Municipal Utilities Director

Project #	SNS-20-001
Project Name	Four Mile Creek Trunk Sewer



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	SNS-20-002
Project Name	SE 3rd Street Trunk Sewer Extension

Description

Installation of approximately 850 LF of 15” sanitary sewer along SE 3rd Street, between SE Grant Street and SE Sharon Drive. Additionally, the existing 4” water main within that same corridor will be replaced and upsized to 8” main. The project will utilize open cut construction, and a temporary water supply system will be utilized to keep the existing homes within the area in service.

Justification

This project is necessary as many residences within the subject area have experienced historical basement flooding issues. Additionally, data from the June 30, 2018 rain event showed that a significant number of homes within the subject area experienced basement backups, with excess of 24” of water in the basement. With the extensive amount of disturbance needed to complete this project, it becomes more cost effective to upsize/replace the existing water main at this time as well. The proposed project will need to be coordinated with the Storm Water Department’s proposed storm sewer improvements within this corridor.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	104,000					104,000
Engineering-Construction Services		104,000				104,000
Construction Costs		1,192,000				1,192,000
Total	104,000	1,296,000				1,400,000
Funding Sources	2020	2021	2022	2023	2024	Total
Sewer Fund	104,000	1,296,000				1,400,000
Total	104,000	1,296,000				1,400,000

Budget Impact/Other

It is anticipated that construction of this project should have an immediate benefit to the sanitary sewer within this area by increasing system capacity, and reducing the frequency of basement backups. This should result in a reduced need for inspection and maintenance. Upsizing of the water main will help to reduce friction losses within the distribution system, and provide better hydraulics to serve the demand within the area. It will take approximately 11,000 gallons to fill and flush the new water main.

Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs	10,000	3,000				13,000
Utilities		100				100
Total	10,000	3,100				13,100

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 *thru* 2024

Department Sewer Utility
Contact Municipal Utilities Director

Project #	SNS-20-002
Project Name	SE 3rd Street Trunk Sewer Extension



2020 - 2024 Capital Improvement Program

2020 thru 2024

City of Ankeny, Iowa

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

Project #	SNS-20-003
Project Name	West Outfall Basin Sanitary Sewer Improvements

Description

Install approximately 2,300 LF of 24” diameter sanitary trunk sewer from near the intersection of SW State Street and SW Plaza Parkway to an existing 24” trunk line crossing SW Oralabor Road.

Justification

The purpose of this project is to provide relief to a segment of sewer where a bottleneck exists due to an undersized downstream segment. A significant number of residents in upstream reaches have historically experienced basement backups as a result of the current design. Construction will include a stream crossing, along with easement acquisitions.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	105,000					105,000
Engineering-Construction Services		105,000				105,000
Construction Costs		1,170,000				1,170,000
Land/ROW Acquisition	70,000					70,000
Total	175,000	1,275,000				1,450,000
Funding Sources	2020	2021	2022	2023	2024	Total
Sewer Fund	175,000	1,275,000				1,450,000
Total	175,000	1,275,000				1,450,000

Budget Impact/Other

This trunk sewer is able to handle moderate rainfall events, however, for more significant events, the trunk sewer becomes one of the bottlenecks along this primary interceptor route. Installation of this new segment of 24” trunk will help to alleviate some of the upstream surcharging, help eliminate the loss of sewer capacity from upstream and downstream sections, and ultimately result in a reduction of basement backups. There will be approximately 150 hours of staff time required for plan review.

Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs	15,000					15,000
Total	15,000					15,000

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

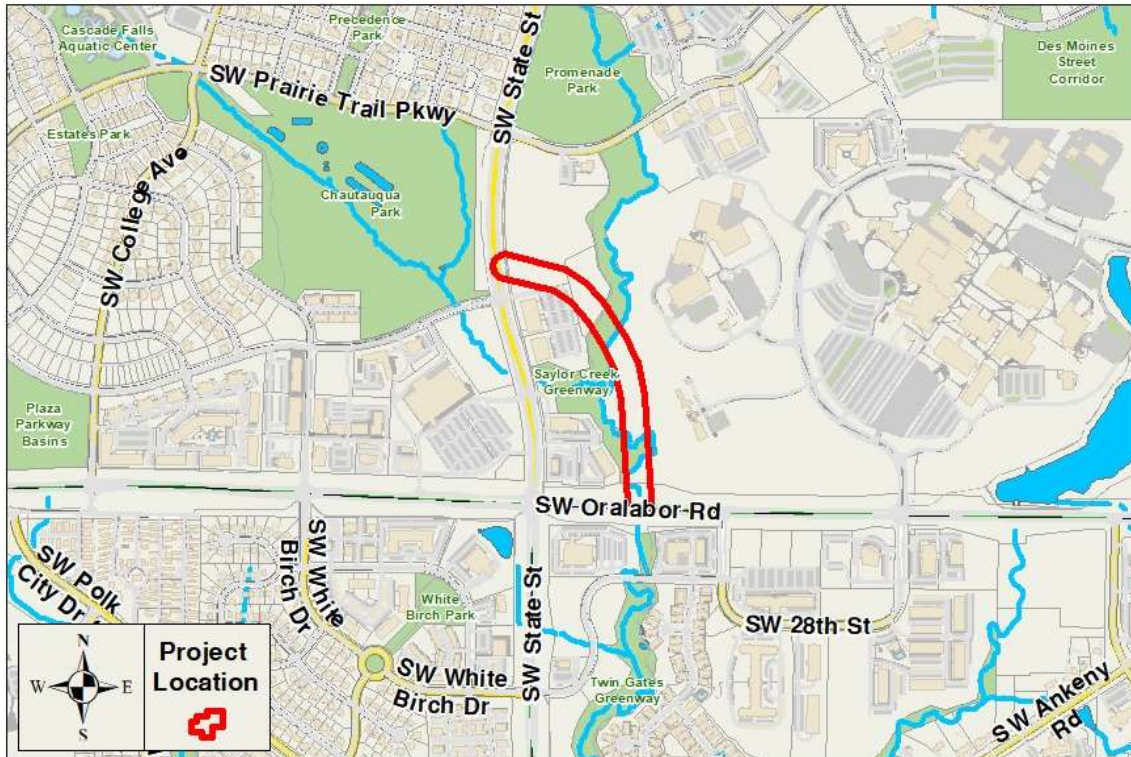
City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-20-003

Project Name West Outfall Basin Sanitary Sewer Improvements



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Sewer Utility
Contact City Engineer
Type Improvement
Useful Life 40 years
Category Sanitary Sewers

Project #	SNS-20-004
Project Name	NW Northlawn Area Sanitary Sewer Improvements

Description

Construct a new sanitary sewer located north of West First Street between Fire Station No. 1 and just west of the High Trestle Trail. The project will provide a new, deeper sanitary sewer for the future NW Northlawn Area Utility Improvements project.

Justification

The project will construct a deeper 8” diameter sanitary sewer to serve the future NW Northlawn Area Utility Improvements project. The project will be constructed in the spring of 2020 in advance of the West 1st Street Joint Utility Trench project and the West 1st Street Widening and Improvements – Phase 1 project. Construction staking for the project will be completed by the consultant and construction observation will be performed by Public Works – Engineering Division staff.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	10,000					10,000
Construction Costs	250,000					250,000
Total	260,000					260,000

Funding Sources	2020	2021	2022	2023	2024	Total
Sewer Fund	260,000					260,000
Total	260,000					260,000

Budget Impact/Other

The minimal length of additional sanitary sewer will have a negligible impact on the City’s maintenance costs. This new sanitary sewer will allow for new, deeper sanitary sewers to be installed in the NW Northlawn Area, which will reduce annual maintenance costs for the City’s Municipal Utilities Department in the future. Those reduced annual maintenance costs are contemplated on the Annual PCC Street Patching Program request form.

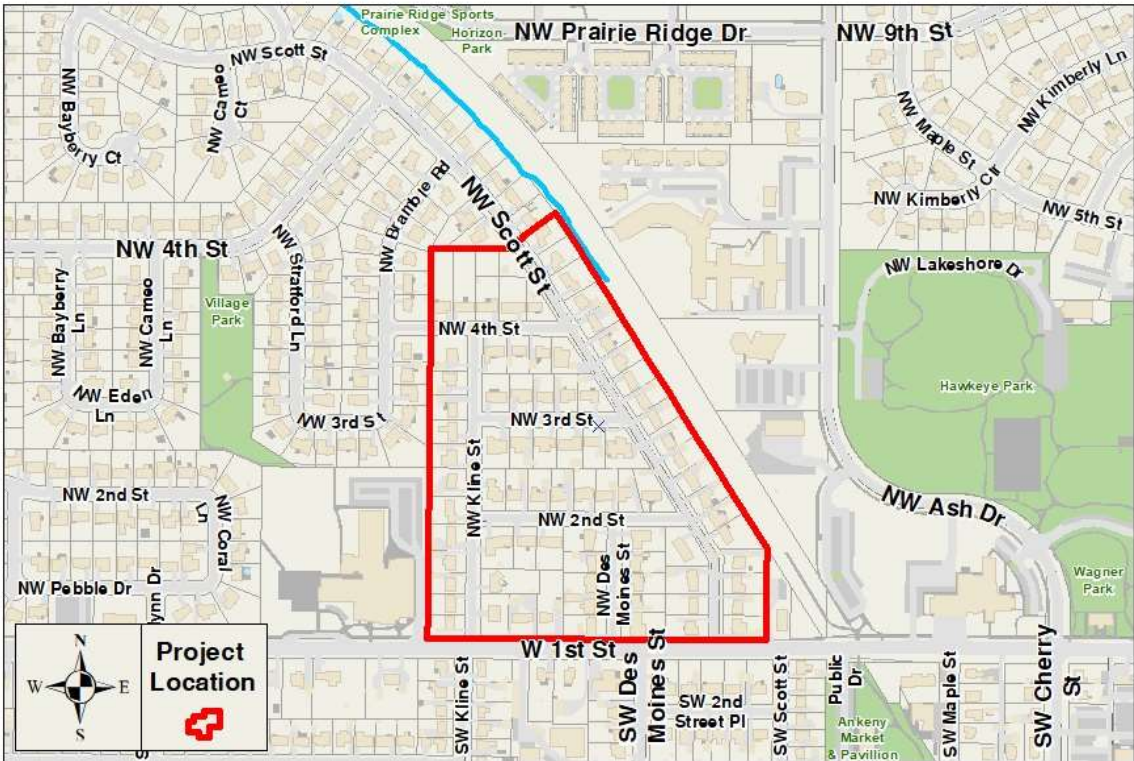
2020 - 2024 Capital Improvement Program

2020 thru 2024

City of Ankeny, Iowa

Department Sewer Utility
Contact City Engineer

Project #	SNS-20-004
Project Name	NW Northlawn Area Sanitary Sewer Improvements



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 2020 include:

Saylor Creek Repairs and Stabilization, design + construct - \$100,000

Triangle Storm Water Detention Basin Outlet Modifications, design + construct - \$85,000

Magazine Road Storm Sewer Improvements, construct - \$50,000

Storm Water Conservation Design Features within City Property - \$10,000

Minor Storm Water Management and Storm Sewer Improvements and Repairs (locations TBD) - \$30,000

Justification

The purpose of the projects is to repair or improve areas to manage storm water more effectively. The Saylor Creek Repairs and Stabilization project will repair an eroded streambank to protect a sanitary sewer manhole that is adjacent to the channel. 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. Throughout the year, additional locations for minor storm water management and storm sewer improvements and repairs will likely be identified and need to be addressed.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	40,000					40,000
Construction Costs	235,000	250,000	250,000	250,000	250,000	1,235,000
Total	275,000	250,000	250,000	250,000	250,000	1,275,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	25,000					25,000
Storm Water Fund	250,000	250,000	250,000	250,000	250,000	1,250,000
Total	275,000	250,000	250,000	250,000	250,000	1,275,000

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	2020	2021	2022	2023	2024	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

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Storm Water Utility

Contact City Engineer

Project # STM-00-001

Project Name Annual Storm Water Replacement Program



2020 - 2024 Capital Improvement Program

2020 thru 2024

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	2020	2021	2022	2023	2024	Total
Engineering-Design	40,000					40,000
Construction Costs	440,000					440,000
Total	480,000					480,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds - Storm Water	480,000					480,000
Abated						
Total	480,000					480,000

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	2020	2021	2022	2023	2024	Total
Maintenance Costs		-500	-500	-500	-500	-2,000
Total		-500	-500	-500	-500	-2,000

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 will involve a 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. The project was previously approved in the 2019 CIP; however, the original conceptual construction cost estimate did not sufficiently account for the scope of the repairs. After completing the preliminary and final design phases in 2019, the construction cost estimate has been updated accordingly, and the project's proposed construction schedule has been shifted to 2020.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Construction Services	30,000					30,000
Construction Costs	390,000					390,000
Total	420,000					420,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	69,000					69,000
G.O. Bonds - Storm Water Abated	241,000					241,000
Other Grants	110,000					110,000
Total	420,000					420,000

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	2020	2021	2022	2023	2024	Total
Maintenance Costs		-1,000	-1,000	-1,000	-1,000	-4,000
Total		-1,000	-1,000	-1,000	-1,000	-4,000

2020 - 2024 Capital Improvement Program

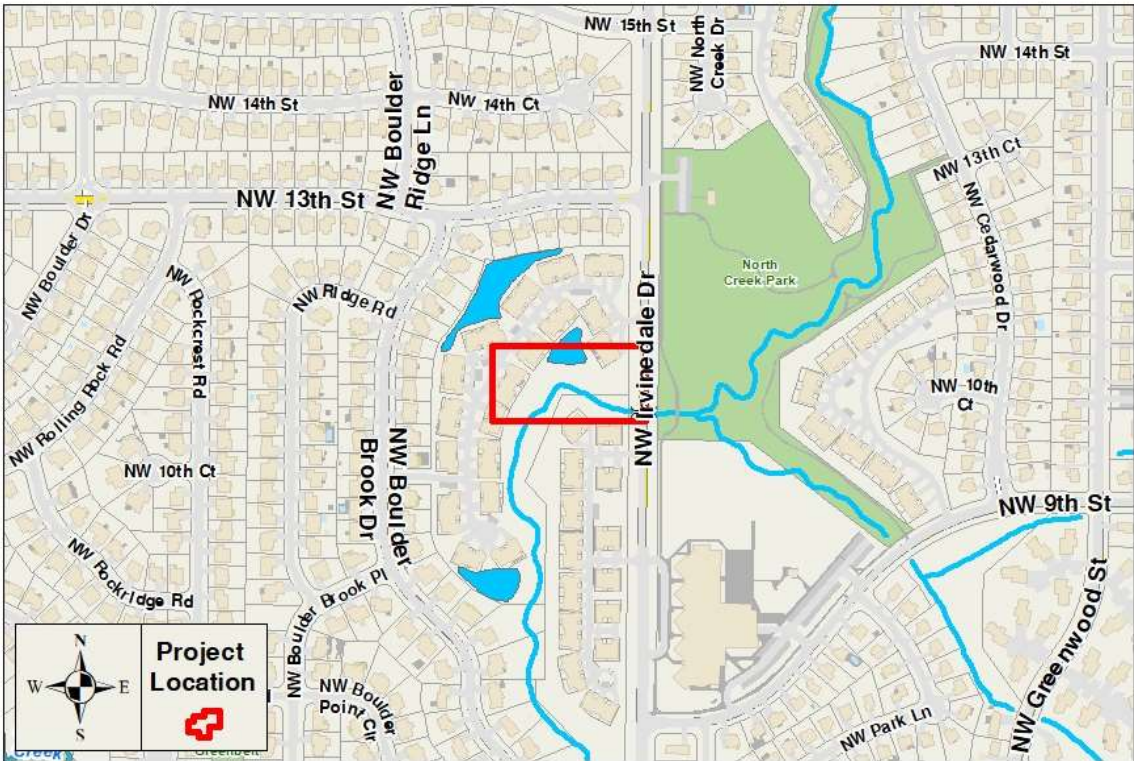
City of Ankeny, Iowa

2020 *thru* 2024

Department Storm Water Utility

Contact City Engineer

Project #	STM-19-002
Project Name	North Creek Channel Flood Repair



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 to install an emergency overflow, 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 overflow path. The downslope of the dam will likely 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 low hazard dams

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design				85,000		85,000
Engineering-Construction Services					25,000	25,000
Construction Costs					380,000	380,000
Total				85,000	405,000	490,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds - Storm Water Abated				85,000	405,000	490,000
Total				85,000	405,000	490,000

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.

City of Ankeny, Iowa

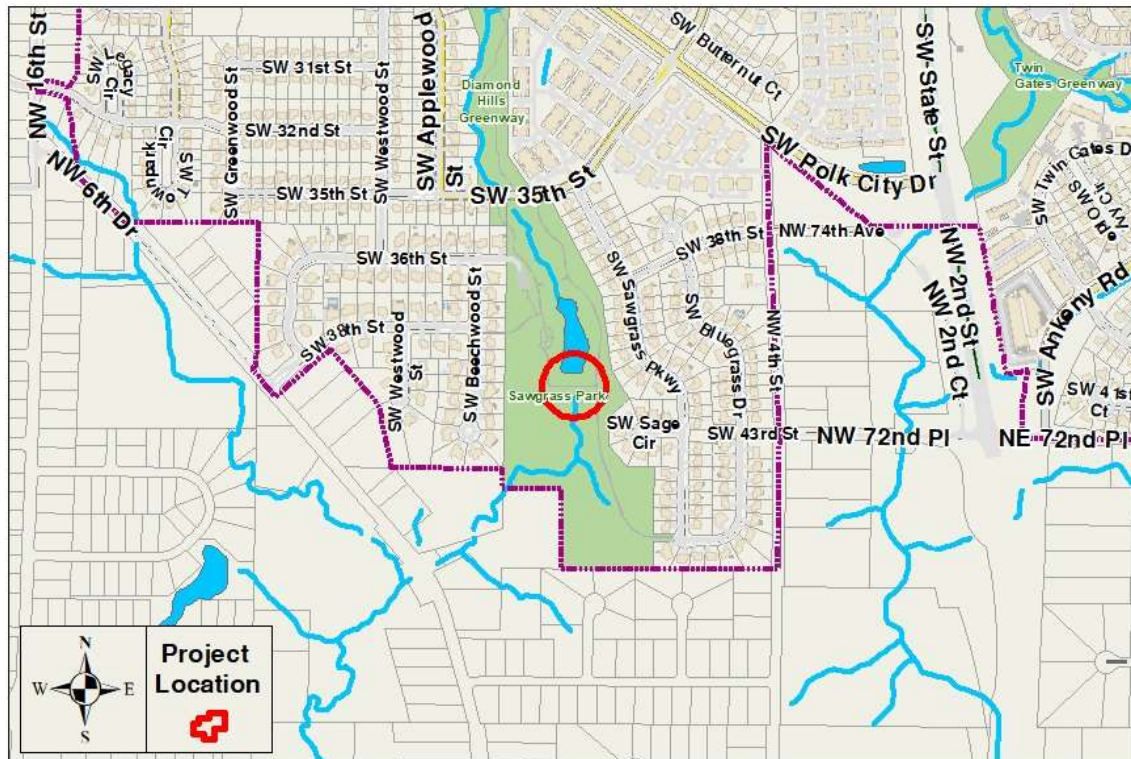
2020 *thru* 2024

Department Storm Water Utility

Contact City Engineer

Project # **STM-19-004**

Project Name	Sawgrass Park Dam Improvements
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2020 - 2024 Capital Improvement Program

2020 thru 2024

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer
Type Improvement
Useful Life 20 years
Category Storm Water

Project #	STM-20-001
Project Name	Four Mile Creek Channel Stabilization

Description

Improvements to address safety, capacity, functionality, sedimentation, erosion, and associated issues within Four Mile Creek between NE 47th and NE 54th Streets. The improvements may include clearing and grubbing to remove flow impediments and significant invasive tree growth, targeted reshaping of the channel to establish stable slopes, repairing a horseshoe bend at risk of eroding and causing a shortened flow path, and establishing native/wetland plantings.

Justification

The purpose of this project is to stabilize the channel, repair a horseshoe meander, and remove debris and invasive vegetation which have caused safety and functionality concerns. The project costs are shown for the survey, concept plan and design work to be completed in 2022 with construction of the project scheduled in 2023.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design			55,000			55,000
Engineering-Construction Services				35,000		35,000
Construction Costs				400,000		400,000
Total			55,000	435,000		490,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds - Storm Water Abated			55,000	435,000		490,000
Total			55,000	435,000		490,000

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 to protect infrastructure.

Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs					-700	-700
Total					-700	-700

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 *thru* 2024

Department Storm Water Utility
Contact City Engineer

Project #	STM-20-001
Project Name	Four Mile Creek Channel Stabilization



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-20-002

Project Name High Trestle Trail Channel Stabilization-Phase 1

Description

Improvements to address safety, capacity, functionality, sedimentation, erosion, and associated issues within the existing drainage channel on the west/south sides of the High Trestle Trail from north of West 1st Street to NW State Street. The improvements may include clearing and grubbing to remove flow impediments, reshaping the channel to establish stable slopes, addressing diminished flow capacity, providing toe protection, and establishing native/wetland plantings. Permanent drainage easements may need to be acquired in conjunction with this project.

Justification

The purpose of this project is to stabilize the channel, re-establish flow capacity, and remediate drainage and erosion issues which have caused safety and health concerns. The project costs are shown for the survey, concept plan and design work to be completed in 2021 with construction of the project scheduled in 2022.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design		160,000				160,000
Engineering-Construction Services			90,000			90,000
Construction Costs			1,100,000			1,100,000
Total		160,000	1,190,000			1,350,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds - Storm Water Abated		160,000	1,190,000			1,350,000
Total		160,000	1,190,000			1,350,000

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 and storm water will not be standing on or within public infrastructure.

Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs				-2,000	-2,000	-4,000
Total				-2,000	-2,000	-4,000

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer

Project #	STM-20-002
Project Name	High Trestle Trail Channel Stabilization-Phase 1



2020 - 2024 Capital Improvement Program

2020 thru 2024

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer
Type Improvement
Useful Life 20 years
Category Storm Water

Project #	STM-20-003
Project Name	High Trestle Trail Channel Stabilization-Phase 2

Description

Improvements to address safety, capacity, functionality, sedimentation, erosion, and associated issues within the existing drainage channel on the west/south sides of the High Trestle Trail between NW State Street and NW Greenwood Street. The improvements may include clearing and grubbing to remove flow impediments, reshaping the channel to establish stable slopes, addressing diminished flow capacity, providing toe protection, and establishing native/wetland plantings. Permanent drainage easements may need to be purchased in conjunction with this project

Justification

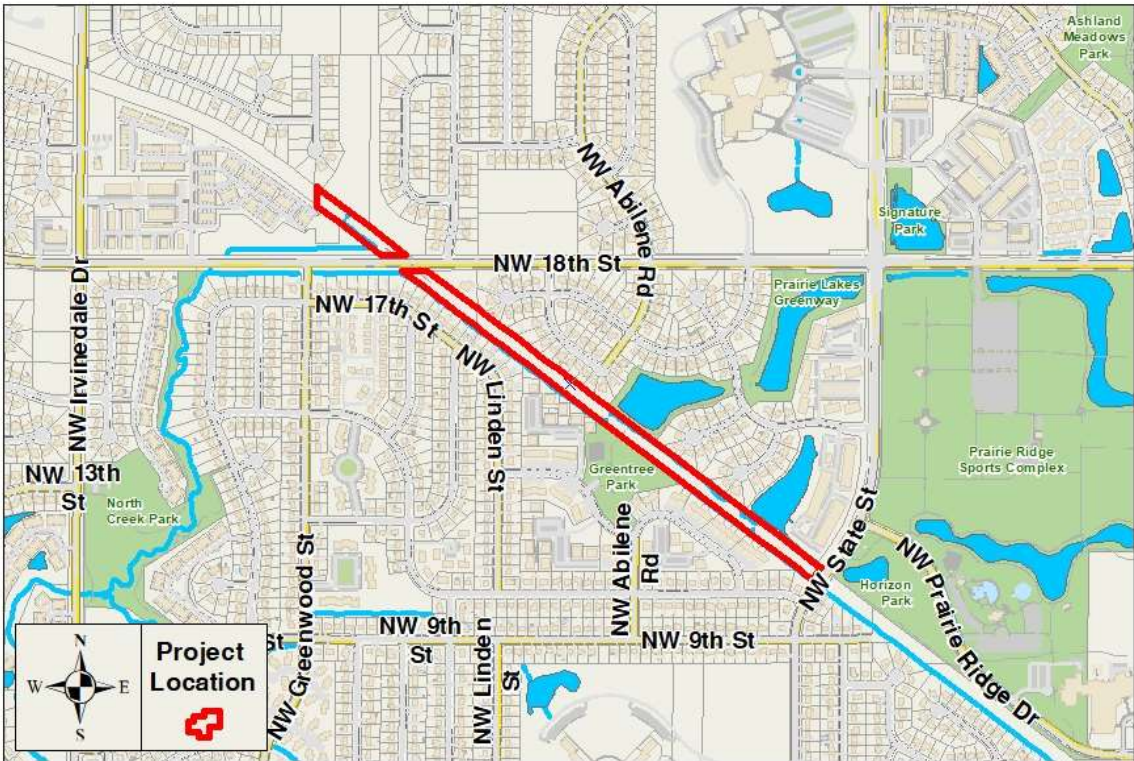
The purpose of this project is to stabilize the channel, re-establish flow capacity, and remediate drainage and erosion issues which have caused safety, health, and infrastructure concerns. The project costs are shown for the survey, concept plan and design work to be completed in 2023 and 2024 with construction of the project scheduled in 2025.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design					215,000	215,000
Survey/Preliminary Analysis				20,000		20,000
Total				20,000	215,000	235,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds - Storm Water				20,000	215,000	235,000
Abated						
Total				20,000	215,000	235,000

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 to protect infrastructure and storm water will not be standing on or within public infrastructure.

Project #	STM-20-003
Project Name	High Trestle Trail Channel Stabilization-Phase 2



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer
Type Improvement
Useful Life 20 years
Category Storm Water

Project #	STM-20-004
Project Name	Tributary to Four Mile Creek Channel Stabilization

Description

Improvements to address safety, capacity, functionality, sedimentation, erosion, and associated issues within the tributary to Four Mile Creek, east of St. James Place, between NE 54th and NE 47th Streets. The improvements may include clearing and grubbing to remove flow impediments, reshaping the channel to establish stable slopes, reconnection to the floodplain, reestablishing the channel bottom, providing toe protection, repairing gully erosion, repairing undermined outlet structures, repairing and modifying an existing storm water detention basin, and establishing native/wetland plantings. Permanent drainage easements may need to be purchased in conjunction with this project.

Justification

The purpose of this project is to stabilize the channel, repair gully erosion, repair and modify a storm water detention basin, and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the survey, concept plan and design work to be completed in 2021 and 2022 with construction of the project scheduled in 2023.

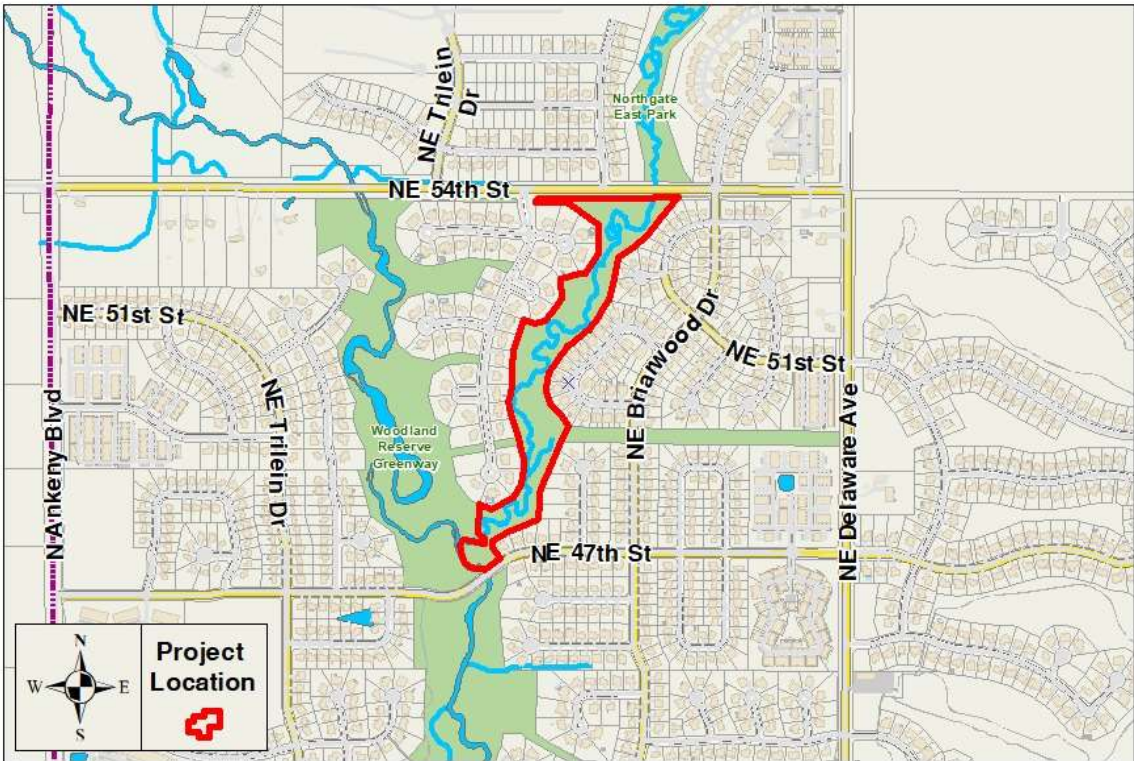
Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design		25,000	280,000			305,000
Engineering-Construction Services				180,000		180,000
Construction Costs				2,100,000		2,100,000
Total		25,000	280,000	2,280,000		2,585,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds - Storm Water Abated		25,000	280,000	1,880,000		2,185,000
Storm Water Fund				400,000		400,000
Total		25,000	280,000	2,280,000		2,585,000

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 repairs within the existing channel to protect infrastructure.

Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs					3,500	3,500
Total					3,500	3,500

Project #	STM-20-004
Project Name	Tributary to Four Mile Creek Channel Stabilization



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer
Type Improvement
Useful Life 40 years
Category Storm Water

Project #	STM-20-005
Project Name	Westlawn Area Storm Sewer Improvements

Description

Construction of storm sewer infrastructure improvements in underserved sections of the Westlawn area, which is located south of West 1st Street, north of SW Ordinance Road, and east of SW State Street. The proposed storm sewer improvements will include footing drain/sump collector lines, storm sewer pipes, intakes, utility accesses, and related pavement removal and replacement.

Justification

The purpose of the project is to address areas that lack storm sewer infrastructure or have known capacity issues within the existing storm sewer network. The June 30, 2018 extreme flash flooding event and other high intensity rainfall events in the past several years have demonstrated the need for adding storm sewer infrastructure in this low-lying area with poorly-drained soils. Adding sump collector lines and storm sewer will help reduce drainage issues and minor flooding on public and private properties. The project’s proposed schedule includes concept design in 2022, survey and design work in 2023, and construction of the project in 2024 and 2025.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design			35,000	300,000		335,000
Engineering-Construction Services					125,000	125,000
Construction Costs					1,500,000	1,500,000
Total			35,000	300,000	1,625,000	1,960,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds - Storm Water Abated			35,000	300,000	1,225,000	1,560,000
Storm Water Fund					400,000	400,000
Total			35,000	300,000	1,625,000	1,960,000

Budget Impact/Other

In the long term, adding new storm sewer infrastructure to the City’s storm water management system will reduce annual maintenance costs for the Public Works and Municipal Utilities departments and it should reduce the amount of Storm Water staff time needed to address drainage issues and concerns in this area of the City.

City of Ankeny, Iowa

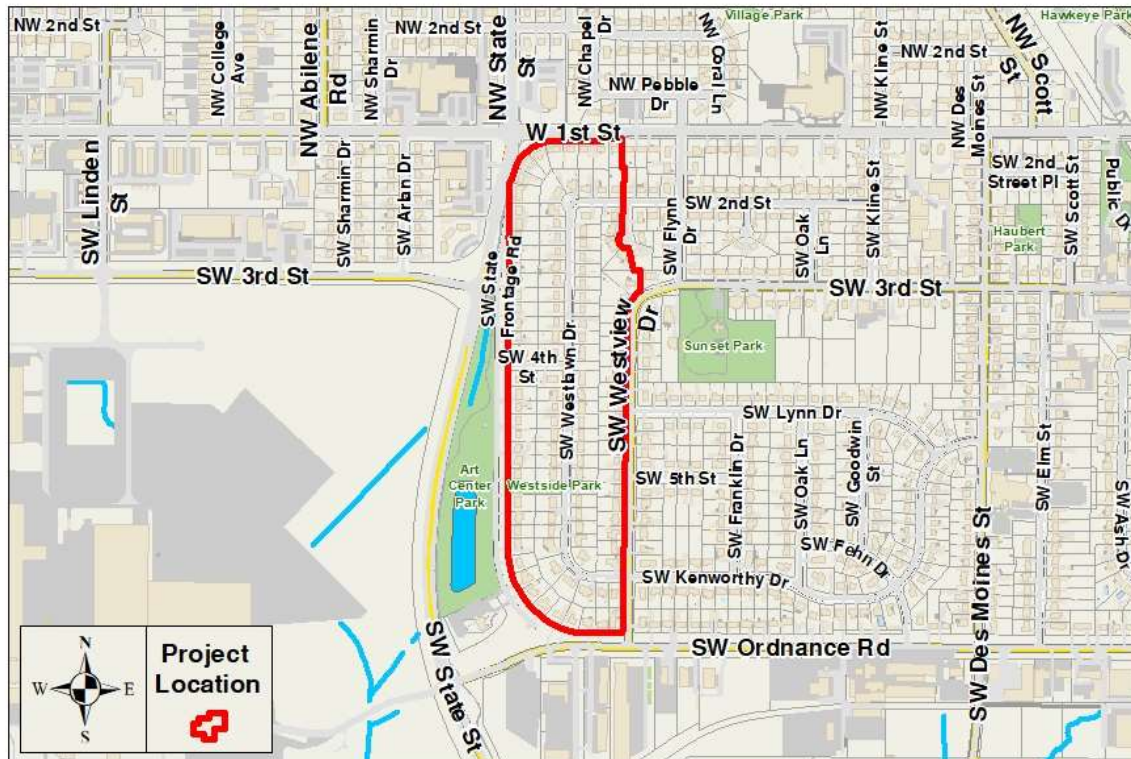
2020 *thru* 2024

Department Storm Water Utility

Contact City Engineer

Project # **STM-20-005**

Project Name Westlawn Area Storm Sewer Improvements



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Storm Water

Project # STM-20-006

Project Name SE 3rd Street Area Storm Sewer Improvements

Description

Construction of storm sewer infrastructure improvements in underserved sections of the SE 3rd Street area, which is located south of East 1st Street, north of SE Peterson Drive, east of South Ankeny Boulevard, and west of SE Trilein Drive. The proposed storm sewer infrastructure improvements will include footing drain/sump collector lines, storm sewer pipes, intakes, utility accesses, and related pavement removal and replacement.

Justification

The purpose of the project is to address areas that lack storm sewer infrastructure or have known capacity issues within the existing storm sewer network. The June 30, 2018 extreme flash flooding event and other high intensity rainfall events in the past several years have demonstrated the need for adding storm sewer infrastructure in this low-lying area with poorly-drained soils. Adding sump collector lines and storm sewer will help reduce drainage issues and minor flooding on public and private properties. The project's proposed schedule includes concept design, survey and design work in 2020 and construction of the project in 2021 and 2022. The proposed storm sewer improvements on SE 3rd Street will need to be coordinated with the Municipal Utilities Department's proposed SE 3rd Street Trunk Sewer Extension, between SE Grant Street and SE Sharon Drive.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	160,000					160,000
Engineering-Construction Services		60,000	60,000			120,000
Construction Costs		700,000	700,000			1,400,000
Total	160,000	760,000	760,000			1,680,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds - Storm Water Abated	160,000	360,000	360,000			880,000
Storm Water Fund		400,000	400,000			800,000
Total	160,000	760,000	760,000			1,680,000

Budget Impact/Other

In the long term, adding new storm sewer infrastructure to the City's storm water management system will reduce annual maintenance costs for the Public Works and Municipal Utilities departments, and it should reduce the amount of Storm Water staff time needed to address drainage issues and concerns in this area of the City.

Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs			-1,000	-2,000	-2,000	-5,000
Personnel Costs			-500	-1,000	-1,000	-2,500
Total			-1,500	-3,000	-3,000	-7,500

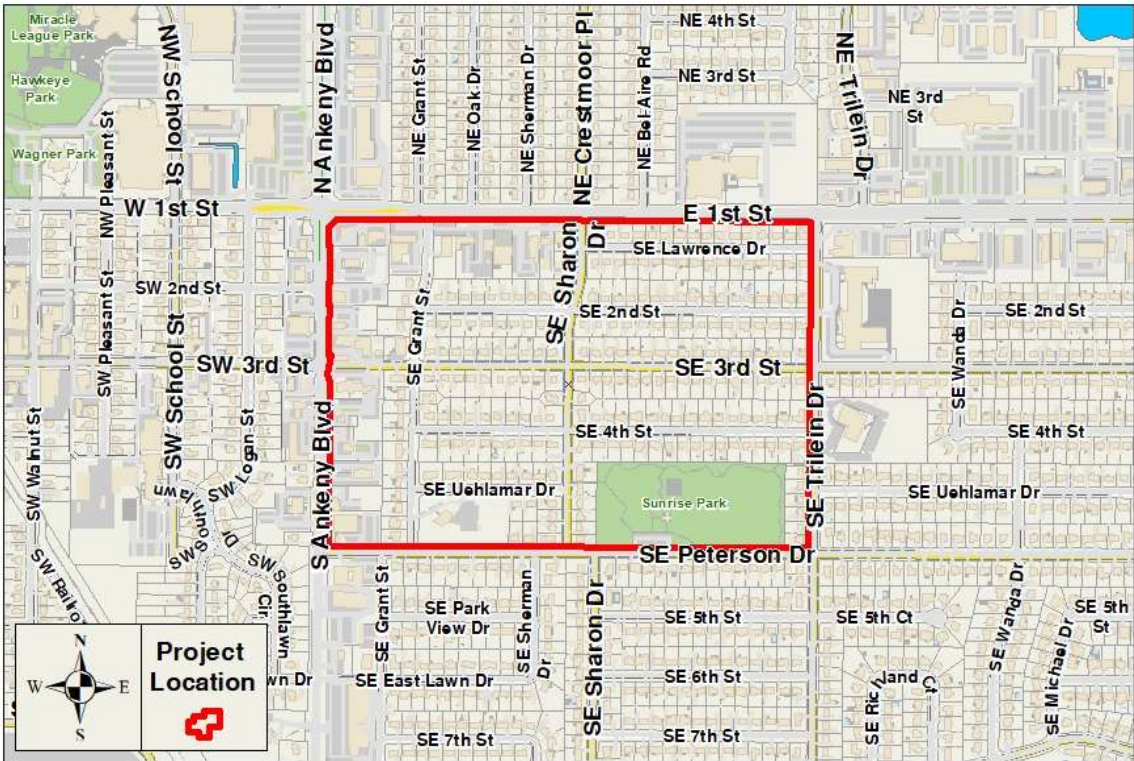
2020 - 2024 Capital Improvement Program

2020 thru 2024

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer

Project #	STM-20-006
Project Name	SE 3rd Street Area Storm Sewer Improvements



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 Public Works – Engineering Division staff. Patch locations are selected 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 (1 phase): 2020 - \$10,000 (engineering) and \$380,000 (construction)
- I/3 NW North Lawn Area Utility Improvements (4 phases): 2020 - \$50,000 (engineering); 2021 - \$60,000 (engineering) and \$555,000 (construction); 2022 - \$55,000 (engineering) and \$495,000 (construction); 2023 - \$50,000 (engineering) and \$420,000 (construction); 2024 - \$10,000 (engineering) and \$410,000 (construction)

Justification

The Annual PCC Street Patching Program addresses the most critical street defects. 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 \$500,000 per year for the next five years in the table below.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	60,000	60,000	55,000	50,000	10,000	235,000
Construction Costs	880,000	1,055,000	995,000	920,000	910,000	4,760,000
Total	940,000	1,115,000	1,050,000	970,000	920,000	4,995,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	940,000	1,115,000	1,050,000	970,000	920,000	4,995,000
Total	940,000	1,115,000	1,050,000	970,000	920,000	4,995,000

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	2020	2021	2022	2023	2024	Total
Maintenance Costs	-24,000	-36,000	-48,000	-60,000	-72,000	-240,000
Total	-24,000	-36,000	-48,000	-60,000	-72,000	-240,000

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works

Contact City Engineer

Project # STR-00-001

Project Name Annual PCC Street Patching Program



city of
Ankeny

bringing it all together

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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.

The specific asphalt projects for 2020 include:

- SW Railroad Drive from SW Ordinance Road to SW Walnut Street, HMA resurfacing of existing gravel street (\$140,000)
- SE Oralabor Road/County NE 78th Avenue, from SE Four Mile Drive east ~1,500 ft. to City limits, HMA overlay (\$25,000 cost share with Polk County)
- Cost sharing for HMA overlay of public streets related to private development projects (\$25,000)

Potential future projects:

- Lakeside Center Parking Lot and Access Drive – HMA overlay
- SE Corporate Woods Drive/County NE 66th Avenue, from SE Delaware Avenue west ~2,000 ft. to City limits, HMA overlay (\$50,000 cost share with Polk County)
- SW Ordinance Road from SW State Street to South Ankeny Boulevard – HMA overlay & shoulder inlay
- NW 5th Street from NW Weigel Drive to NW Irvinedale Drive – HMA overlay or slurry level
- SW Ankeny Road from SW State Street to SW Oralabor Road – HMA overlay or diamond grinding
- Public alleyways between SW Cherry Street and SW Walnut Street, from West 1st Street to SW 3rd Street, HMA overlay

Justification

Significant progress has been made on overlaying asphalt rural roadways along the exterior of the City. Public Works staff has identified potential projects in the interior of the City that could benefit from the annual HMA program by eliminating existing gravel streets and shoulders.

Expenditures	2020	2021	2022	2023	2024	Total
Construction Costs	190,000	150,000	150,000	150,000	150,000	790,000
Total	190,000	150,000	150,000	150,000	150,000	790,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	190,000	150,000	150,000	150,000	150,000	790,000
Total	190,000	150,000	150,000	150,000	150,000	790,000

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	2020	2021	2022	2023	2024	Total
Maintenance Costs	-4,000	-6,000	-8,000	-10,000	-12,000	-40,000
Total	-4,000	-6,000	-8,000	-10,000	-12,000	-40,000

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-00-002

Project Name Annual Asphalt Street Resurfacing Program



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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.

2020: The pavement preservation work consists of cleaning, sawing, and sealing existing joints and cracks.

2021-2024: 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. In 2020, the allocation will be used for joint and crack sealing, while in future years, it will be used for joint and crack sealing, partial depth repair, or a combination of these two measures. These 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	2020	2021	2022	2023	2024	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	2020	2021	2022	2023	2024	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	2020	2021	2022	2023	2024	Total
Maintenance Costs	-4,000	-5,000	-7,000	-8,000	-10,000	-34,000
Total	-4,000	-5,000	-7,000	-8,000	-10,000	-34,000

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works

Contact City Engineer

Project # STR-00-003

Project Name Annual Pavement Preservation Program



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2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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). The 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.

- 2020: NW 9th Street, NW Park Lane to NW Cedarwood Drive - \$650,000 (construct); SE 8th Street, SE Oak Drive to SE Sharon Drive - \$1,025,000 (construct + inspection); SE 8th Street, South Ankeny Boulevard to SE Oak Drive - \$125,000 (design)
- 2021: SE 8th Street, South Ankeny Boulevard to SE Oak Drive - \$1,050,000 (construct + inspection); SE Peachtree Drive, SE Oralabor Road to SE Aster Court - \$400,000 (construct)
- 2022: SE 8th Street, SE Rio Circle to SE Wanda Drive - \$375,000 (construct); NW 5th Street, NW Greenwood Street to NW Applewood Street - \$575,000 (construct);
- 2023-2024: TBD (proposed at \$1,000,000 each year)

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. The estimated construction cost for the SE 8th Street, SE Oak Drive to SE Sharon Drive, project in 2020 includes \$150,000 of water utility-related work; and the estimated construction cost for the SE 8th Street, South Ankeny Boulevard to SE Oak Drive, project in 2021 includes \$175,000 of water utility-related work.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	200,000	75,000				275,000
Construction Costs	1,600,000	1,375,000	950,000	1,000,000	1,000,000	5,925,000
Total	1,800,000	1,450,000	950,000	1,000,000	1,000,000	6,200,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	815,000		740,000	950,000	450,000	2,955,000
Road Use Tax Fund	985,000	1,450,000	210,000	50,000	550,000	3,245,000
Total	1,800,000	1,450,000	950,000	1,000,000	1,000,000	6,200,000

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	2020	2021	2022	2023	2024	Total
Maintenance Costs	-4,500	-9,750	-15,000	-19,000	-23,000	-71,250
Total	-4,500	-9,750	-15,000	-19,000	-23,000	-71,250

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works

Contact City Engineer

Project # STR-00-004

Project Name Annual Street Replacement Program



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2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 of the third and final phase of this multi-year project will occur in 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 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 and 2020, 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 actual water transmission main construction costs in 2019 were higher than originally estimated, so the additional water main cost has been included in the 2020 construction costs. The design services were previously budgeted for and have been completed. The Iowa DOT is responsible for the construction administration and observation services.

Expenditures	2020	2021	2022	2023	2024	Total
Construction Costs	1,516,666	666,667				2,183,333
Street Lighting	200,000					200,000
Total	1,716,666	666,667				2,383,333

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	966,666	666,667				1,633,333
Water Revenue Bonds	750,000					750,000
Total	1,716,666	666,667				2,383,333

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	2020	2021	2022	2023	2024	Total
Maintenance Costs		2,500	2,500	2,500	2,500	10,000
Utilities		5,500	5,500	5,500	5,500	22,000
Total		8,000	8,000	8,000	8,000	32,000

City of Ankeny, Iowa

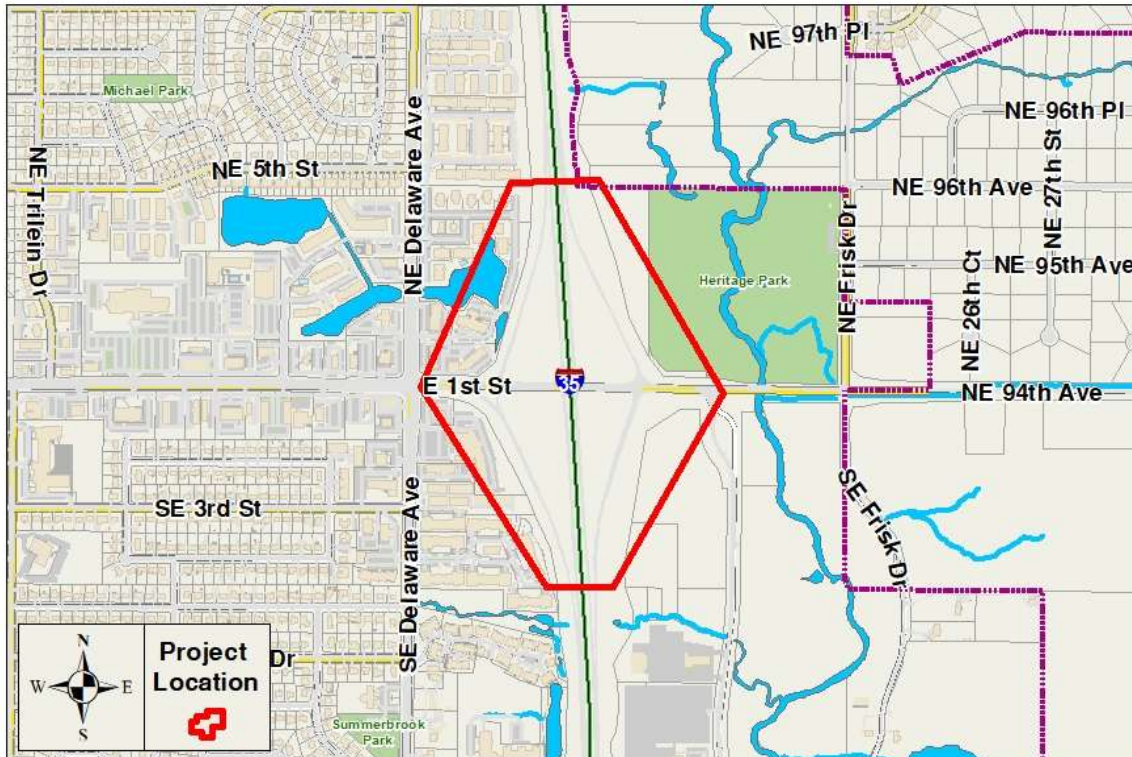
2020 *thru* 2024

Department Public Works

Contact City Engineer

Project # **STR-11-004**

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 new permanent traffic signals at the NE Delaware Avenue and NE 5th Street and NE 18th Street intersections, fiber optic interconnect from East 1st Street to NE 18th Street, and removal of the existing reinforced concrete box (RCB) culvert and replacement with a triple 12 feet x 8 feet RCB culvert for Tributary A.

Justification

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. 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 of this length. The project is planned for 2023 and 2024 construction, with the survey and preliminary design in 2021, the right-of-way and easement acquisitions and final design in 2022, and landscaping improvements in 2025. Federal STBG-Swap funding in the amount of \$1,000,000 has been obtained through the Des Moines Area MPO. Additional STBG-Swap funding estimated at \$1,500,000 is anticipated to be obtained through the MPO in the next funding application cycle.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design		250,000	650,000			900,000
Engineering-Construction Services				250,000	325,000	575,000
Construction Costs				3,625,000	4,550,000	8,175,000
Street Lighting				100,000	75,000	175,000
Land/ROW Acquisition			75,000			75,000
Total		250,000	725,000	3,975,000	4,950,000	9,900,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund			725,000	2,500,000		3,225,000
G.O. Bonds		250,000		1,475,000	2,450,000	4,175,000
MPO/STBG Grants					2,500,000	2,500,000
Total		250,000	725,000	3,975,000	4,950,000	9,900,000

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, 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 traffic signal and street lights will result in additional electric power costs for the City.

Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs					1,500	1,500
Utilities					2,500	2,500
Total					4,000	4,000

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

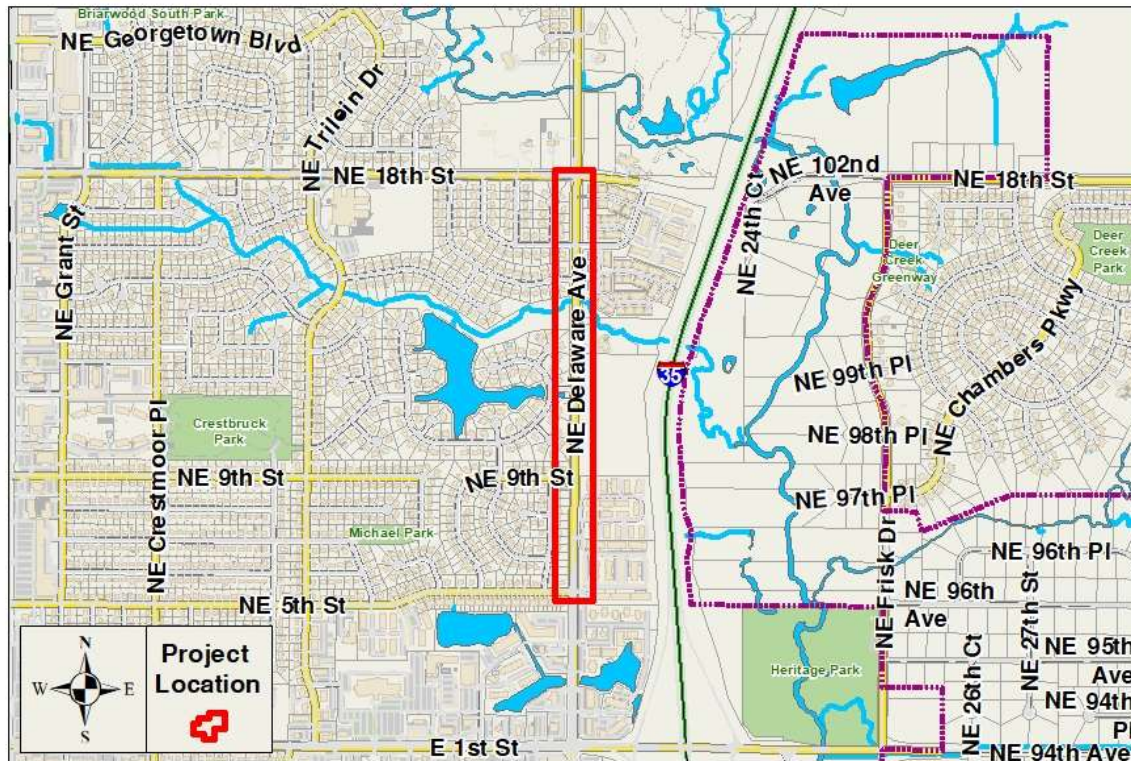
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-14-006

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 Spruce

Description

Extension of NW 18th Street from NW Weigel Drive west approximately 3,800 LF to NW Spruce Drive. The current gravel road with rural ditch section will be replaced with a 31-ft. wide concrete street with curb and gutter, along with a 37-ft. wide section for left turn lanes at intersections. The project will also include 8-ft. wide sidewalk on the south side, sanitary sewer, storm sewer, water main, street lighting, fiber optic 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 Spruce Drive west to IA Highway 415.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	400,000					400,000
Engineering-Construction Services		275,000				275,000
Construction Costs		3,600,000				3,600,000
Street Lighting		125,000				125,000
Land/ROW Acquisition	60,000					60,000
Total	460,000	4,000,000				4,460,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	460,000	2,886,000				3,346,000
Special Assessments		1,114,000				1,114,000
Total	460,000	4,000,000				4,460,000

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	2020	2021	2022	2023	2024	Total
Maintenance Costs			-12,500	-12,500	-12,500	-37,500
Utilities			2,500	2,500	2,500	7,500
Total			-10,000	-10,000	-10,000	-30,000

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

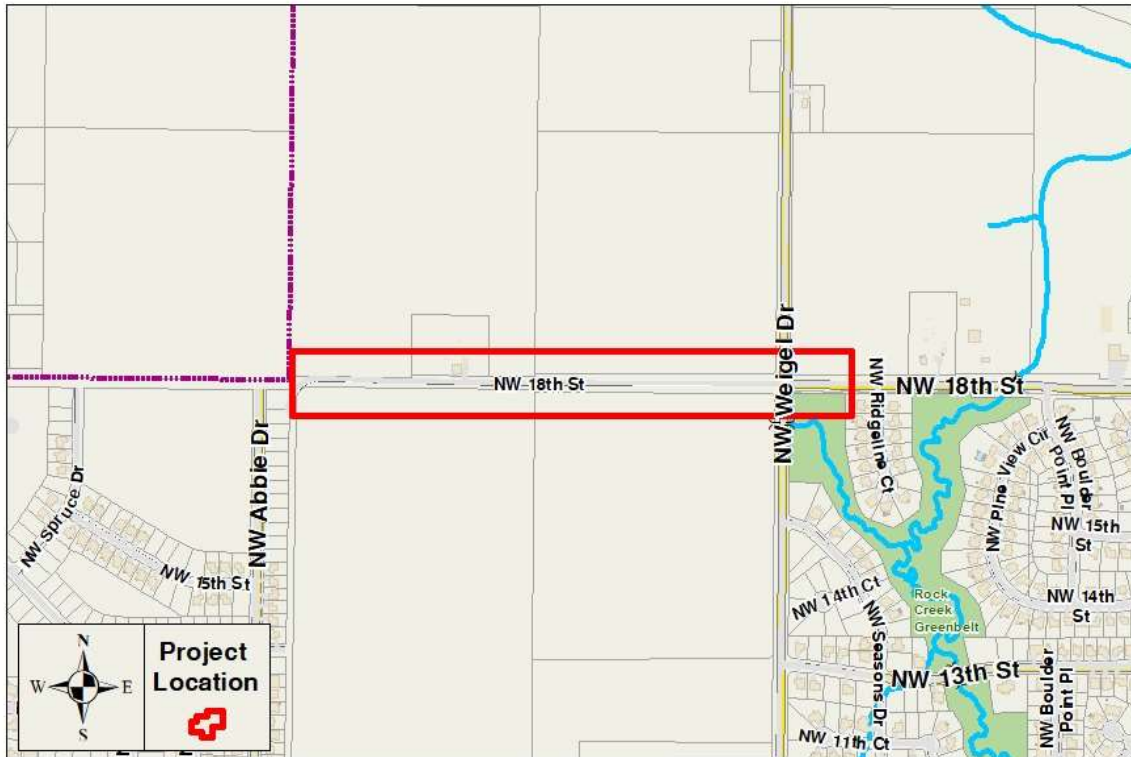
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-16-002

Project Name NW 18th Street Extension-Weigel to Spruce



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 and surveying in 2023, engineering design in 2024, and construction and engineering construction services in 2025. 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. An order of magnitude construction cost opinion for the intersection improvements is approximately \$2,870,000.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design					250,000	250,000
Survey/Preliminary Analysis				75,000		75,000
Total				75,000	250,000	325,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds				75,000	250,000	325,000
Total				75,000	250,000	325,000

Budget Impact/Other

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.

City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works

Contact City Engineer

Project # **STR-16-003**

Project Name SW Oralabor Rd and SW Irvinedale Dr Intersection



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 NW/SW State Street to just west of N/S 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 flow in the vicinity of Parkview Middle School. The project is planned for 2021 and 2022 construction, with the final design and property acquisition occurring in 2020. Federal STBG-Swap funding in the amount of \$2,530,000 has been obtained through the Des Moines Area MPO. In addition, TSIP funding in the amount of \$500,000 has been obtained through the Iowa DOT.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	250,000					250,000
Engineering-Construction Services		300,000	300,000			600,000
Construction Costs		2,575,000	2,875,000			5,450,000
Street Lighting		65,000	65,000			130,000
Land/ROW Acquisition	160,000					160,000
Total	410,000	2,940,000	3,240,000			6,590,000

Funding Sources	2020	2021	2022	2023	2024	Total
FHWA/IDOT Grants		250,000	250,000			500,000
G.O. Bonds - TIF Abated	410,000	1,425,000	1,725,000			3,560,000
MPO/STBG Grants		1,265,000	1,265,000			2,530,000
Total	410,000	2,940,000	3,240,000			6,590,000

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	2020	2021	2022	2023	2024	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

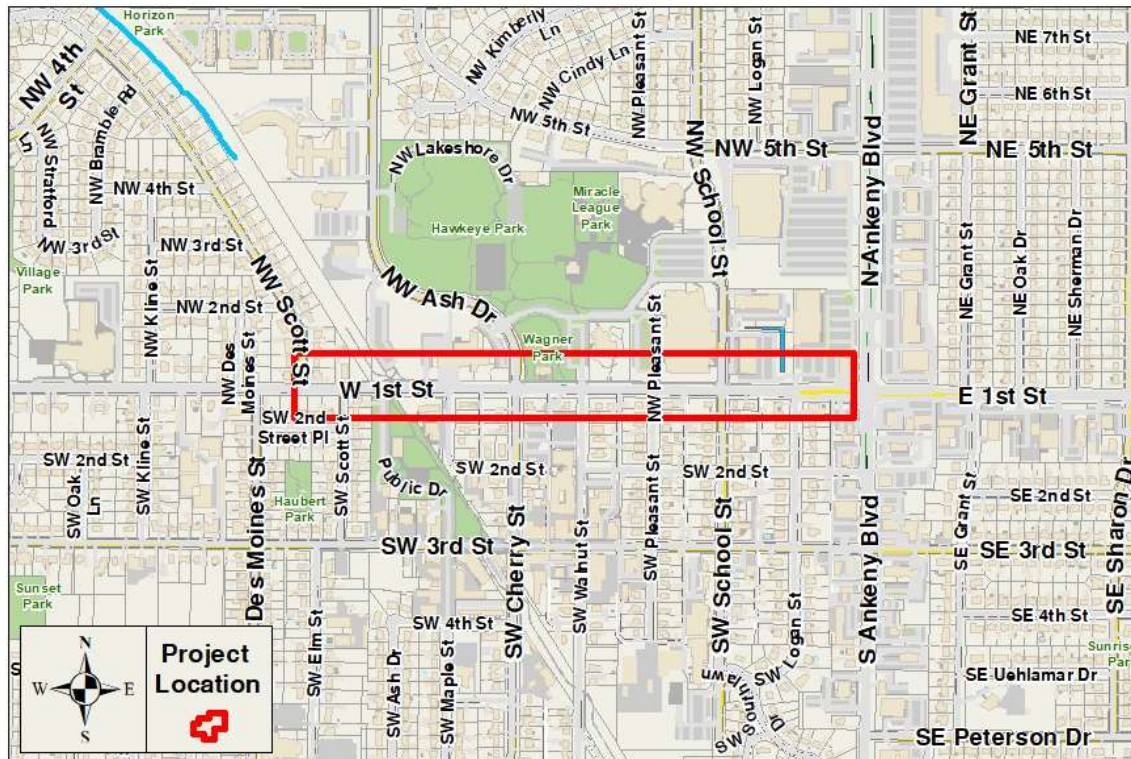
2020 *thru* 2024

Department Public Works

Contact City Engineer

Project # **STR-16-004**

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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/US 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' sightlines to on-coming opposing traffic. North Ankeny Boulevard/US 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 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 Iowa DOT. The proposed schedule assumes the median and intersection paving and streetscaping improvements would be constructed in 2021, and the landscaping and irrigation improvements would be constructed in 2022.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	100,000					100,000
Engineering-Construction Services		65,000	15,000			80,000
Construction Costs		675,000	200,000			875,000
Total	100,000	740,000	215,000			1,055,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	50,000	370,000	107,500			527,500
Hotel/Motel Tax Fund	50,000	370,000	107,500			527,500
Total	100,000	740,000	215,000			1,055,000

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 Public Work Operations Division staff is considered negligible. The proposed landscaping will result in additional maintenance costs due to mowing the new turfgrass areas 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	2020	2021	2022	2023	2024	Total
Maintenance Costs			1,500	1,500	1,500	4,500
Utilities			500	1,000	1,000	2,500
Total			2,000	2,500	2,500	7,000

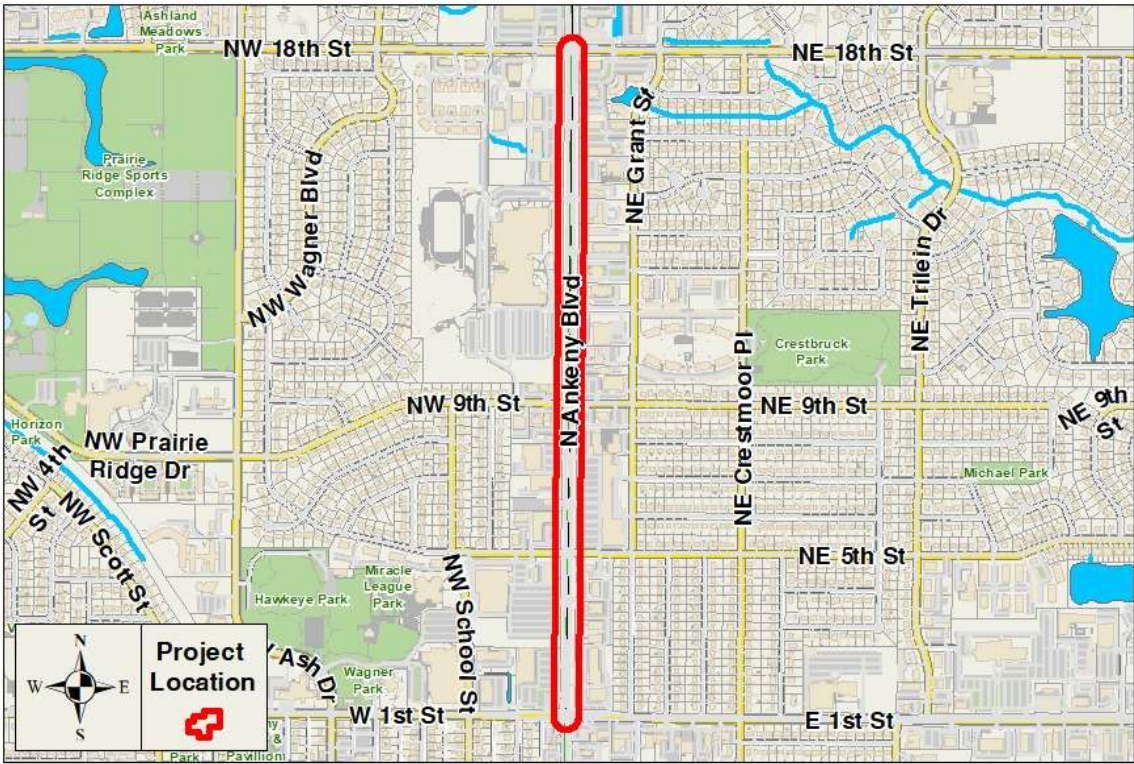
2020 - 2024 Capital Improvement Program

2020 thru 2024

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 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 that will serve as the eastbound lanes when this future four-lane divided street is constructed. Storm sewer improvements to accommodate the future four-lane divided street are also included. Sanitary sewer and water main are assumed to be constructed with pending future development along the corridor in advance of the roadway reconstruction. Also included in this project is the reconstruction and traffic signalization of the NW 36th Street and NW Irvinedale Drive intersection as well as adding turn lanes to the north, south, and west legs of the intersection. The east leg of the intersection will be widened to set up the future four-lane divided street with a left turn lane.

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 2023 with construction planned for 2024. It is anticipated that the topographic survey and base mapping would be completed in Fall 2022 in order to maintain the project schedule.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design				400,000		400,000
Engineering-Construction Services					325,000	325,000
Construction Costs					4,100,000	4,100,000
Street Lighting					150,000	150,000
Land/ROW Acquisition				25,000		25,000
Survey/Preliminary Analysis			75,000			75,000
Total			75,000	425,000	4,575,000	5,075,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds			75,000	425,000	4,575,000	5,075,000
Total			75,000	425,000	4,575,000	5,075,000

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 traffic signal and street lights will result in additional electric power costs to the City.

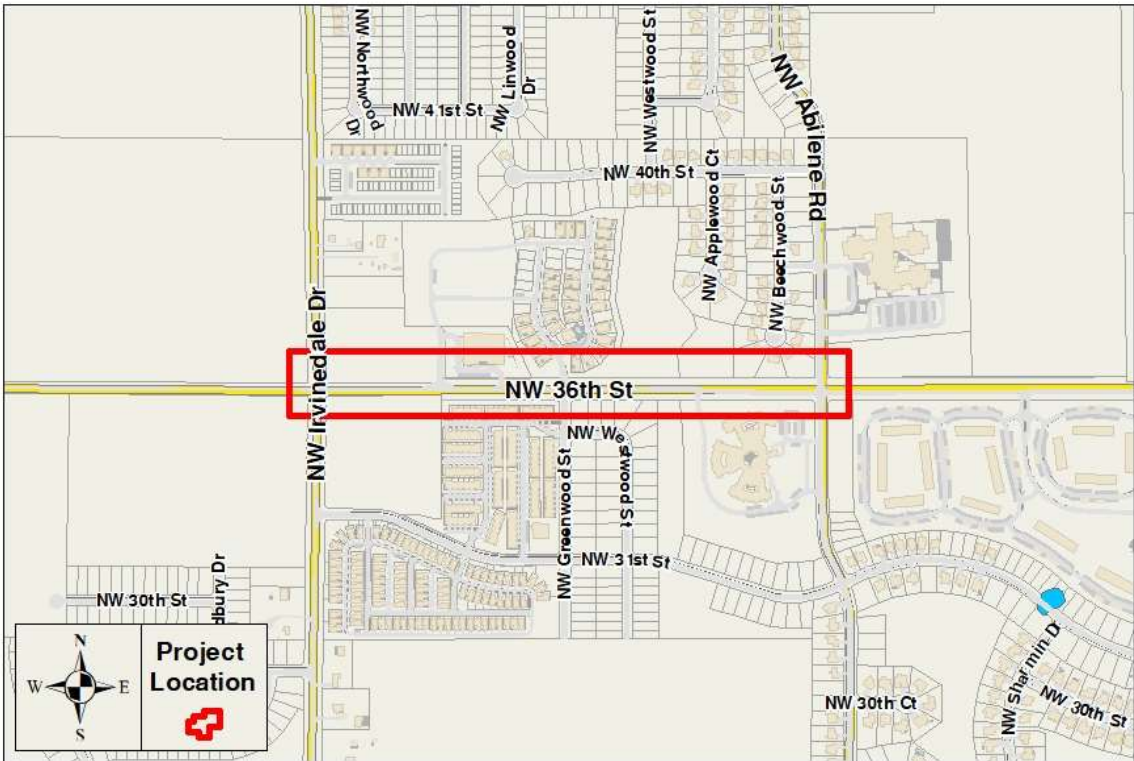
2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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-Spruce to Highway 415

Description

Extension of NW 18th Street from NW Spruce Drive west approximately 2,700 LF to IA Highway 415. This new roadway alignment will connect the proposed extension of NW 18th Street from NW Weigel Drive to NW Spruce 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, 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	2020	2021	2022	2023	2024	Total
Engineering-Design				375,000		375,000
Land/ROW Acquisition				125,000		125,000
Total				500,000		500,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds				500,000		500,000
Total				500,000		500,000

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.

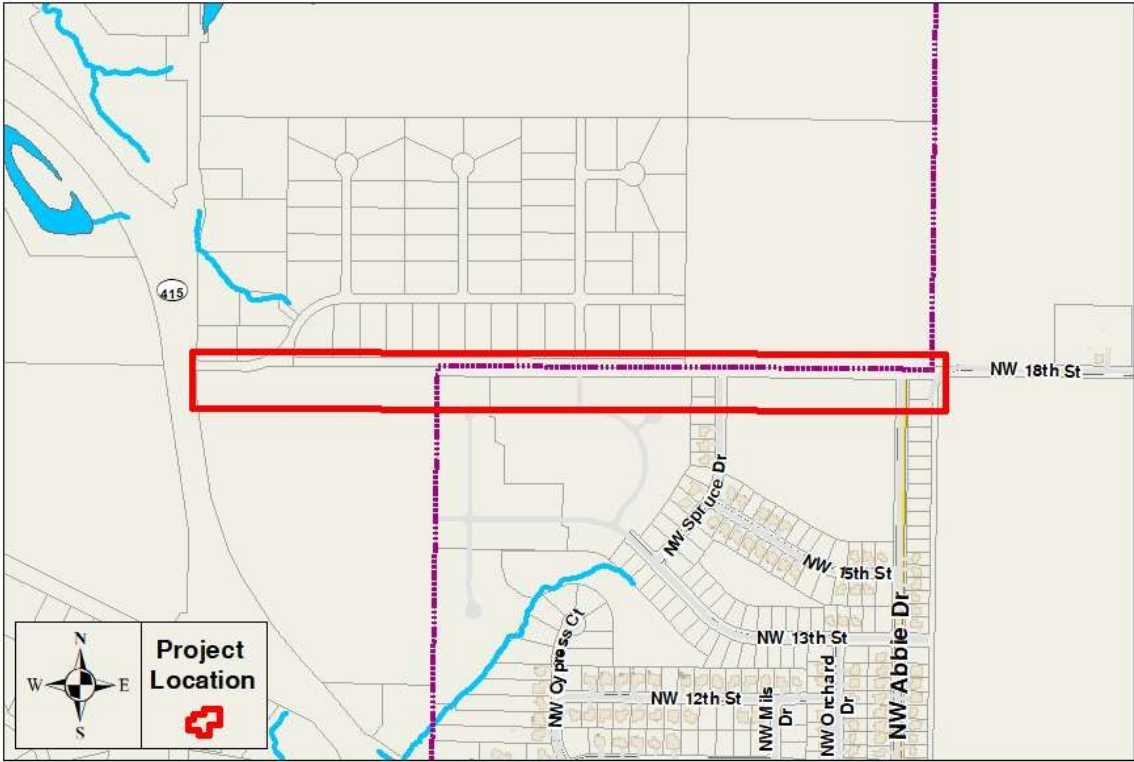
2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

Project #	STR-18-004
Project Name	NW 18th Street Extension-Spruce to Highway 415



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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

This project will improve mobility for ingress and egress traffic using the parking lot in the north part of the PRSC. In particular, egress traffic has a difficult time 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 for the access improvements is approximately \$600,000. The design and construction cost opinions would be updated during the concept study phase.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design			100,000			100,000
Construction Costs				600,000		600,000
Planning Study		25,000				25,000
Total		25,000	100,000	600,000		725,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds		25,000	100,000	600,000		725,000
Total		25,000	100,000	600,000		725,000

Budget Impact/Other

In the long-term, the additional pavement will add minimal maintenance costs for the City's Parks & Recreation department.

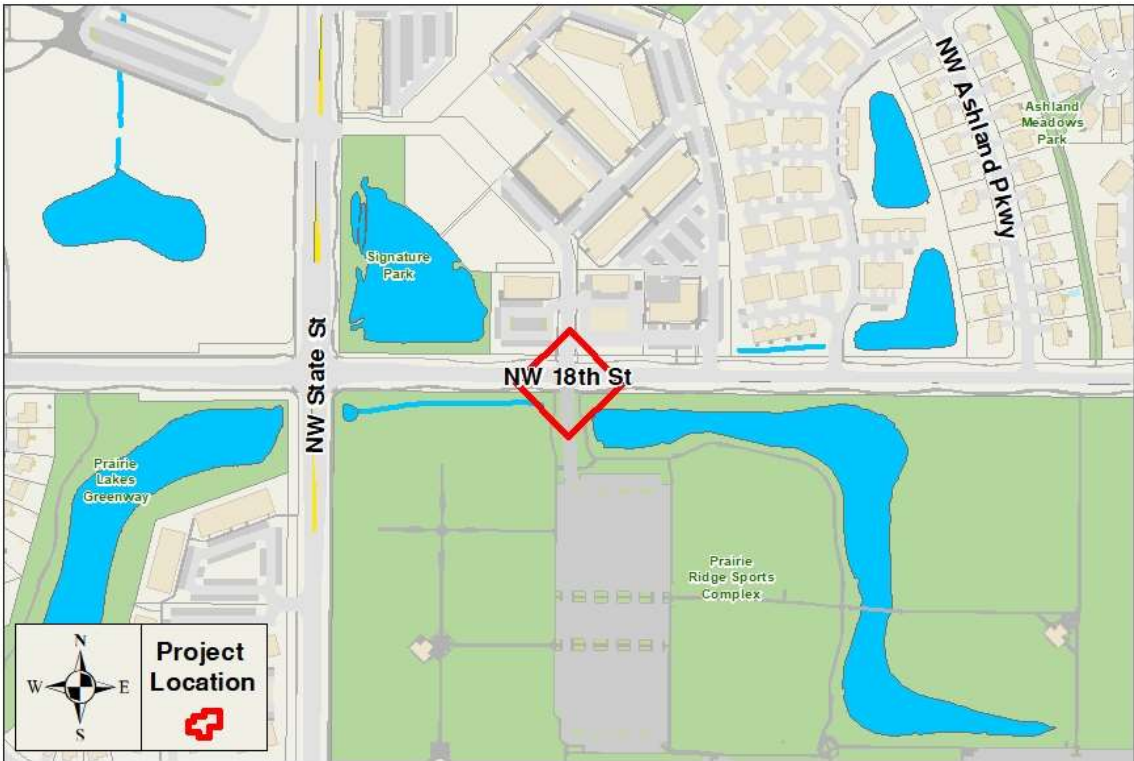
2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

Project #	STR-18-005
Project Name	Prairie Ridge Sports Complex-Parking Lot Access



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 study, develop concept alternative(s), and prepare a conceptual opinion of probable cost for potential geometric and/or traffic signal improvements at the South Ankeny Boulevard and SW Oralabor Road intersection.

Justification

The purpose of the project is to identify effective safety improvements on the South Ankeny Boulevard and SW Oralabor Road corridors. In the Iowa DOT's 2018 and 2019 Statewide Improvement Candidate Location (SICL) lists, several intersections on these corridors ranked very high. The SICL list is based upon crash severity, crash rate, and crash frequency. Without targeted safety improvements, increased traffic volumes due to the rapid population growth and on-going development are likely to result in increased crash experience. The City completed intersection safety studies for South Ankeny Boulevard and Magazine Road (#8 in 2018 SICL) and SW Oralabor Road and SW State Street (#6 in 2019 SICL), and safety improvement projects have been programmed for those two intersections. Iowa DOT has undertaken a safety study of US Highway 69 that includes South Ankeny Boulevard and SE 3rd Street (#9 in 2019 SICL). The final intersection safety study, South Ankeny Boulevard/US Highway 69 and Oralabor Road/IA Highway 160 (#27 in 2018 SICL), will be completed in 2020. If the study shows geometric and/or traffic signal improvements would be beneficial for improving safety at the intersection, Public Works staff will coordinate with Iowa DOT to consider programming the design and construction phases for future years.

Expenditures	2020	2021	2022	2023	2024	Total
Consultant	30,000					30,000
Total	30,000					30,000

Funding Sources	2020	2021	2022	2023	2024	Total
Road Use Tax Fund	30,000					30,000
Total	30,000					30,000

Budget Impact/Other

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

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-18-006

Project Name S Ankeny Blvd and SW Oralabor Rd Safety Studies



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 support safe and efficient movement within the commercial and industrial area accessed via SE Hulsizer Road, by providing a signalized intersection with SE Oralabor Road. Realigning the street to the NE 19th Lane intersection will allow appropriate spacing of traffic signals to support traffic flow on SE Oralabor Road/IA Highway 160. The street realignment will also provide additional economic development opportunities for the businesses north of SE Oralabor Road and west of SE Hulsizer Road. The City received a Revitalize Iowa's Sound Economy (RISE) grant from Iowa DOT for the project, and has applied for Urban-State Traffic Engineering Program (U-STEP) funding.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Construction Services	200,000					200,000
Construction Costs	2,500,000					2,500,000
Vehicle/Equipment	75,000					75,000
Land/ROW Acquisition	290,000					290,000
Total	3,065,000					3,065,000

Funding Sources	2020	2021	2022	2023	2024	Total
FHWA/IDOT Grants	851,446					851,446
G.O. Bonds - TIF Abated	2,213,554					2,213,554
Total	3,065,000					3,065,000

Budget Impact/Other

The added 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, 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.

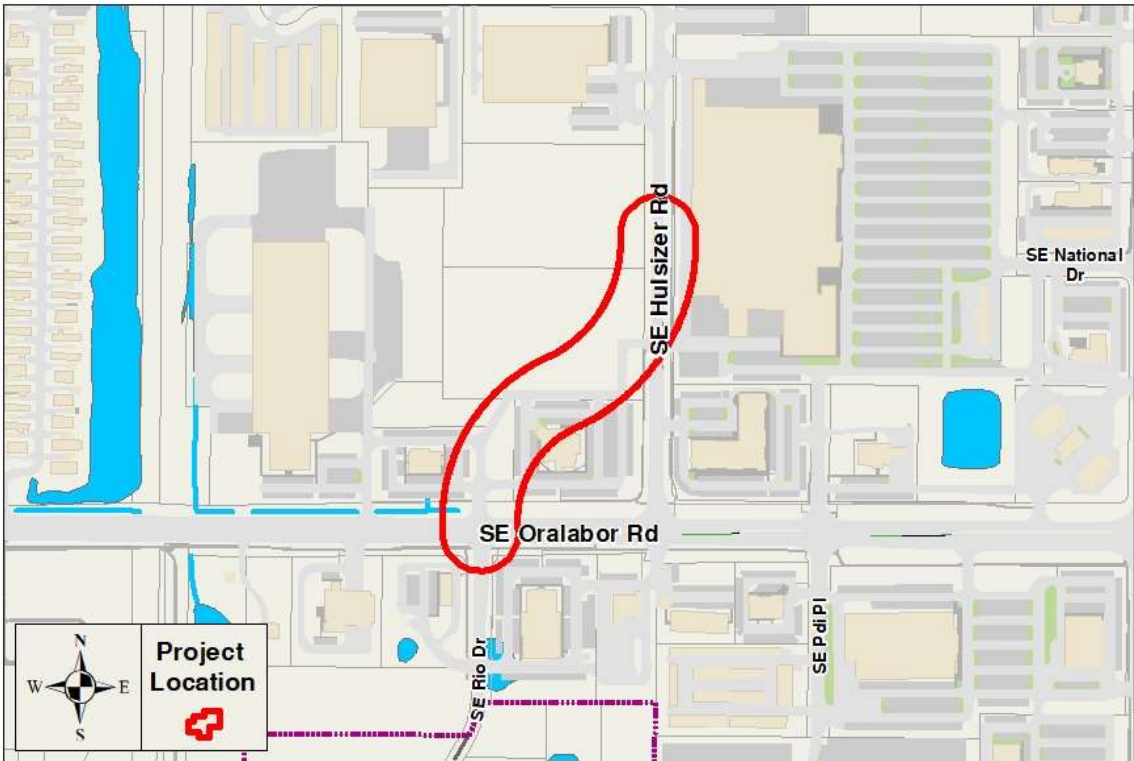
Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs		900	900	900	900	3,600
Utilities		1,500	1,500	1,500	1,500	6,000
Total		2,400	2,400	2,400	2,400	9,600

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works
Contact City Engineer

Project #	STR-18-007
Project Name	SE Hulsizer Road Realignment



2020 - 2024 Capital Improvement Program

2020 thru 2024

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 Asphalt Overlay-Weigel to Irvinedale

Description

This project involves Hot Mix Asphalt (HMA) resurfacing 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 ft. wide and 8” thick HMA with 2 ft. wide granular shoulders. This project also includes extending an existing reinforced concrete 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	2020	2021	2022	2023	2024	Total
Engineering-Design					100,000	100,000
Total					100,000	100,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds					100,000	100,000
Total					100,000	100,000

Budget Impact/Other

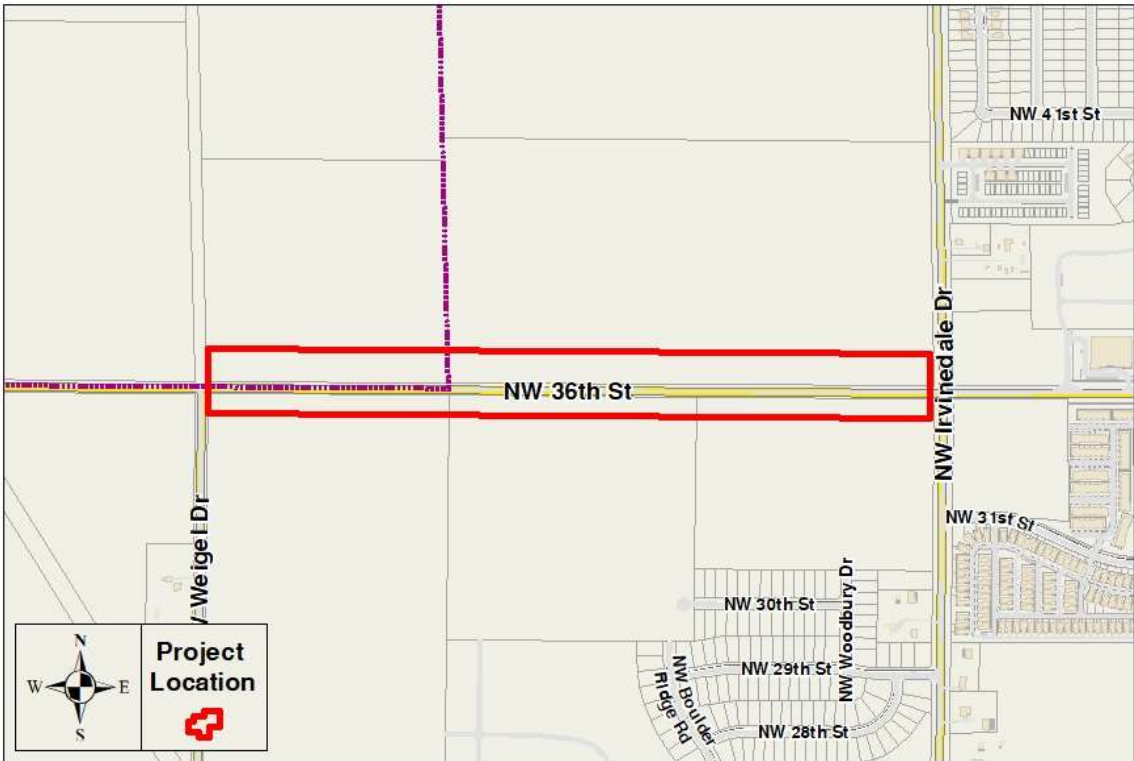
This project will reduce annual maintenance costs for the City because the Public Works Department will not have to regularly maintain the existing gravel roadway.

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works
Contact City Engineer

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



2020 - 2024 Capital Improvement Program

2020 thru 2024

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 Reconstruction-Ordnance to 1st St

Description

This project includes the reconstruction of the PCC pavement in the northbound lanes of SW State Street from just north of SW Ordnance Road to approximately 150 feet south of West 1st Street. This project includes removal and replacement of the existing pavement structure along with subgrade and subbase improvements. This project also includes consultant construction engineering 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 the Public Works – Operations Division to maintain a drivable street surface. The project’s construction costs assume full depth removal and replacement of the existing pavement structure.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Construction Services	125,000					125,000
Construction Costs	1,150,000					1,150,000
Total	1,275,000					1,275,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	1,275,000					1,275,000
Total	1,275,000					1,275,000

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	2020	2021	2022	2023	2024	Total
Maintenance Costs		-8,500	-8,500	-8,500	-8,500	-34,000
Total		-8,500	-8,500	-8,500	-8,500	-34,000

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works
Contact City Engineer

Project #	STR-19-005
Project Name	SW State Street Reconstruction-Ordinance to 1st St



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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	2020	2021	2022	2023	2024	Total
Engineering-Design				25,000		25,000
Construction Costs				150,000		150,000
Total				175,000		175,000

Funding Sources	2020	2021	2022	2023	2024	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.

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

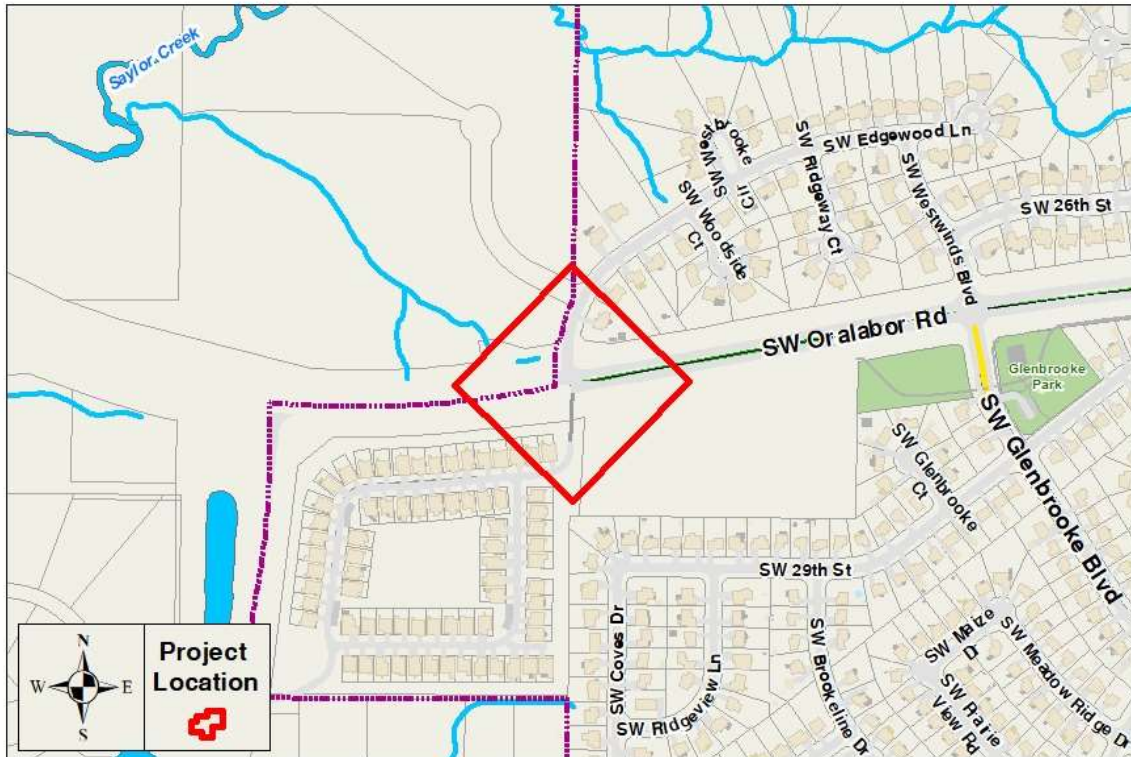
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-19-006

Project Name SW Orallabor Rd and SW Edgewood Ln Intersection



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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	S Ankeny Blvd and Magazine Rd Safety Improvements

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 and Magazine Road intersection was listed in the 2018 Iowa Department of Transportation (DOT)'s Top 200 Safety Improvement Location Candidates at #8. The City's 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. Ankeny Boulevard is also US Highway 69, so the proposed improvements will be coordinated with the Iowa DOT. Traffic Safety Improvement Program (TSIP) funding application was submitted in 2019 and an Urban-State Traffic Engineering Program (U-STEP) request will also be submitted.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	60,000					60,000
Engineering-Construction Services		30,000				30,000
Construction Costs		250,000				250,000
Total	60,000	280,000				340,000

Funding Sources	2020	2021	2022	2023	2024	Total
FHWA/IDOT Grants		150,000				150,000
G.O. Bonds	60,000					60,000
Road Use Tax Fund		130,000				130,000
Total	60,000	280,000				340,000

Budget Impact/Other

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

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-19-007

Project Name S Ankeny Blvd and Magazine Rd Safety Improvements



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 Improvements

Description

Construction of a new street and addition of a turn lane within the Crosswinds Business Park. SE Crosswinds Drive will extend north from SE 90th Street (County NE 54th Avenue) to SE 77th Street that will be constructed with Phase 1. A northbound left turn lane for SE Crosswinds Drive will be constructed on SE 90th Street. 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

Phase 2 is proposed at this time to continue 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 to be funded by an Iowa DOT RISE grant.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Construction Services	287,000					287,000
Construction Costs	2,533,000					2,533,000
Total	2,820,000					2,820,000
Funding Sources	2020	2021	2022	2023	2024	Total
FHWA/IDOT Grants	1,000,000					1,000,000
Private Contributions	1,820,000					1,820,000
Total	2,820,000					2,820,000

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	2020	2021	2022	2023	2024	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

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

Project #	STR-19-008
Project Name	SE Crosswinds Drive/SE 77th Street Improvements



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project #	STR-20-001
Project Name	West 1st Street Joint Utility Trench

Description

Construction of a joint utility trench along West 1st Street between Scott Street and Logan Street, and upgrading of the City’s fiber optic network to State Street for additional capacity and redundancy. The project will relocate and consolidate public and private utility infrastructure in advance of the West 1st Street Widening and Improvements project and associated Mid-American Energy project to relocate electric distribution lines from overhead to underground.

Justification

The project will construct a joint utility trench in 2020 to relocate public and private utilities in advance of the West 1st Street Widening and Improvements project, which is scheduled for construction in 2021 and 2022, thereby maintaining essential communication and power services to the residents, businesses, schools, and City facilities during the street reconstruction. Partial cost-sharing with the Ankeny Community School District is anticipated on the project, similar to the South Ankeny Boulevard Fiber Optic Relocation project in 2019.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Construction Services	60,000					60,000
Construction Costs	500,000					500,000
Land/ROW Acquisition	35,000					35,000
Total	595,000					595,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	495,000					495,000
Private Contributions	100,000					100,000
Total	595,000					595,000

Budget Impact/Other

The project will reduce the annual maintenance costs for the City because the Public Works Department will have to do less maintenance on the City’s fiber optic line along West 1st Street.

City of Ankeny, Iowa

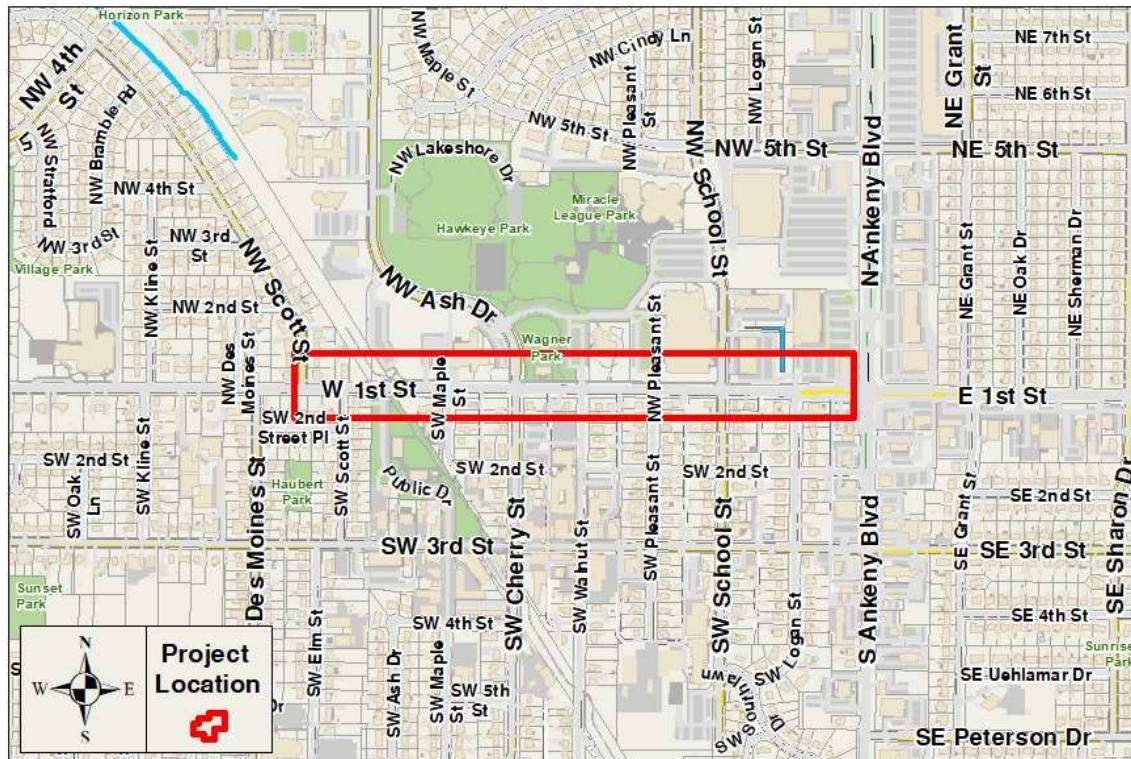
2020 *thru* 2024

Department Public Works

Contact City Engineer

Project # **STR-20-001**

Project Name West 1st Street Joint Utility Trench



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	STR-20-002
Project Name	NW 26th Street Widening

Description
Hot Mix Asphalt (HMA) widening of NW 26th Street to four lanes from just north of County NE 66th Avenue to just south of IA Highway 415/SW Oralabor Road.

Justification
Polk County is planning to widen NW 26th Street to four lanes from just north of County NE 66th Avenue to just south of IA Highway 415/SW Oralabor Road in 2021. The east one-half of the north approximately 700 feet of NW 26th Street is within the City, so Polk County will be requesting reimbursement from the City for the improvements in this area. Only the City’s cost-share amount is shown in the estimated construction costs.

Expenditures	2020	2021	2022	2023	2024	Total
Construction Costs		250,000				250,000
Total		250,000				250,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds		250,000				250,000
Total		250,000				250,000

Budget Impact/Other
Polk County provides the routine maintenance for the small portion of NW 26th Street that is within the City’s limits, so this project would not have an operating impact on the City

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works

Contact City Engineer

Project #	STR-20-002
Project Name	NW 26th Street Widening



2020 - 2024 Capital Improvement Program

2020 thru 2024

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project #	STR-20-003
Project Name	NW 36th St and NW State St Interim Improvements

Description

Interim improvements at the intersection of NW 36th Street and NW State Street 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 will likely require a traffic signal at the NW 36th Street and NW State Street 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 in this area and a permanent traffic signal is installed at the intersection.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design			50,000			50,000
Engineering-Construction Services				40,000		40,000
Construction Costs				450,000		450,000
Total			50,000	490,000		540,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds			50,000	490,000		540,000
Total			50,000	490,000		540,000

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.

Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs					400	400
Utilities					300	300
Total					700	700

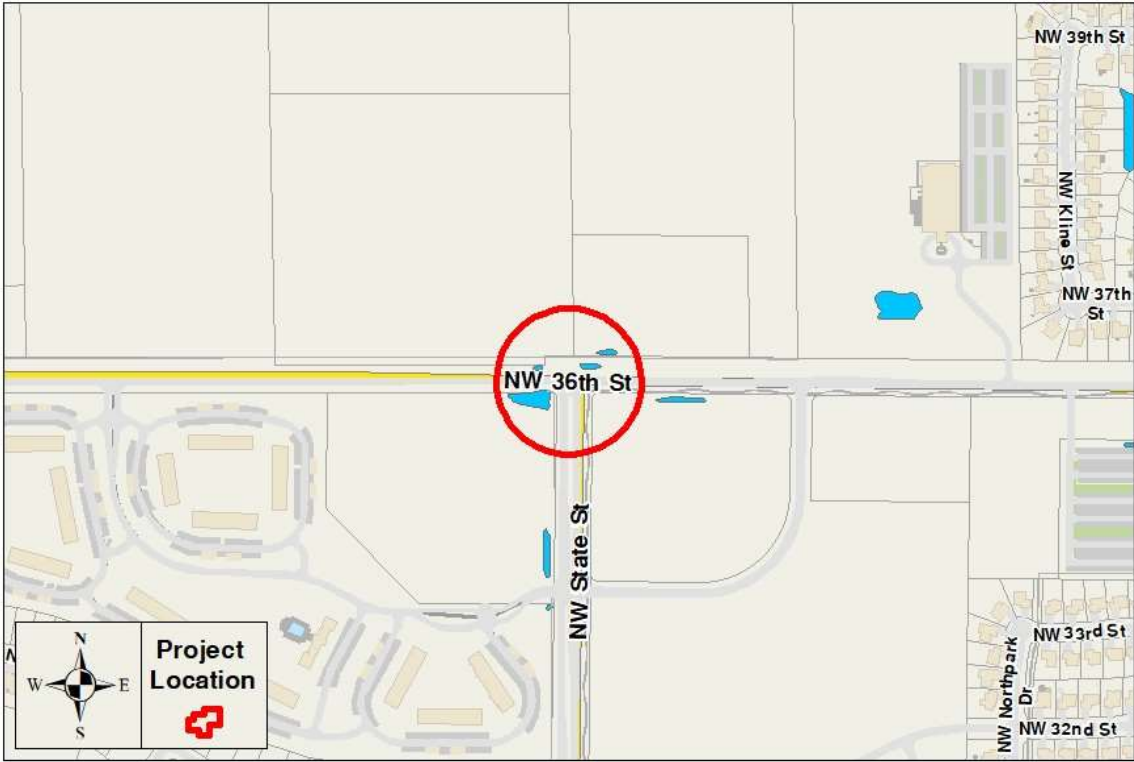
2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

Project #	STR-20-003
Project Name	NW 36th St and NW State St Interim Improvements



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	STR-20-004
Project Name	NW 18th Street Reconstruction-Ash to Ankeny Blvd

Description

This project includes the reconstruction of the PCC pavement on NW 18th Street from just east of NW Ash Drive to approximately 250 feet west of North Ankeny Boulevard. This project includes removing subgrade and adding modified subbase and longitudinal subdrains along with new pavement markings and pedestrian ramp improvements along the corridor. This project also includes consultant engineering survey, design, and construction services.

Justification

This segment of NW 18th Street is experiencing significant deterioration of the existing joints and pavement structure. It requires regular maintenance (primarily cold patching) by the Public Works – Operations Division to maintain a drivable street surface. The project’s construction costs assume full depth removal and replacement of the existing pavement structure.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design		200,000				200,000
Engineering-Construction Services			125,000			125,000
Construction Costs			1,550,000			1,550,000
Total		200,000	1,675,000			1,875,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds		200,000	1,675,000			1,875,000
Total		200,000	1,675,000			1,875,000

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	2020	2021	2022	2023	2024	Total
Maintenance Costs				-7,000	-7,000	-14,000
Total				-7,000	-7,000	-14,000

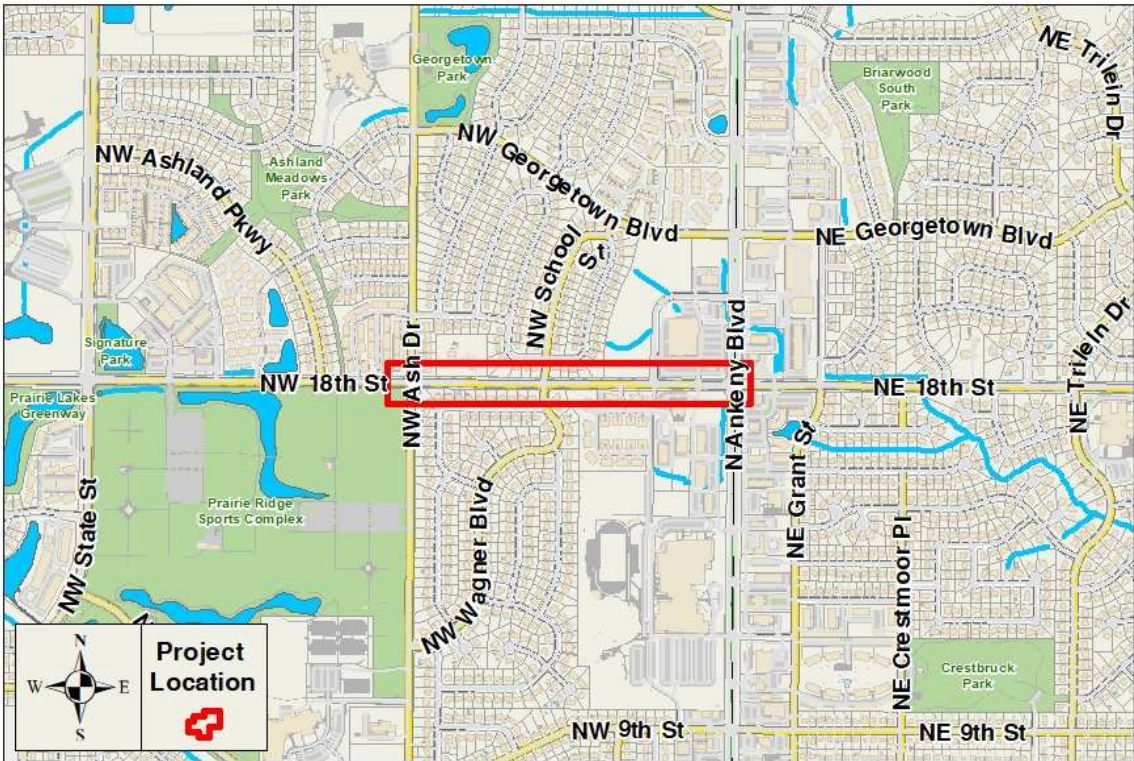
2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

Project #	STR-20-004
Project Name	NW 18th Street Reconstruction-Ash to Ankeny Blvd



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-20-005

Project Name NW 36th Street Widening-Ash to Ankeny Blvd

Description

This is the first phase of multiple phases to widen NW 36th Street, between North Ankeny Boulevard and NW Irvinedale Drive, from two lanes to four lanes with medians, dedicated left turn lanes and traffic signals at the major intersections. For Phase 1, NW 36th Street will be widened to four lanes between North Ankeny Boulevard and NW Ash Drive with left turn lanes at the major intersections, including NW Ash Drive. The project will also include adding a traffic signal at the NW Ash Drive intersection.

Justification

Traffic volumes on NW 36th Street have increased rapidly during the past few years, especially between NW Ash Drive and North Ankeny Boulevard, where traffic volumes increased by ~22% from 2018 to 2019. This has resulted in decreased traffic operations along this segment of NW 36th Street. The current two-lane, undivided street has traffic mobility and safety issues because left turning vehicles block the through traffic lanes. This results in traffic backups and increased accident potential along the corridor. Traffic volumes on NW 36th Street are expected to continue increasing in the future with the on-going development in the northwest part of the City, so an increase in traffic capacity, mobility, and safety will likely occur if improvements are not made during the next few years.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	40,000	250,000				290,000
Engineering-Construction Services			200,000			200,000
Construction Costs			2,400,000			2,400,000
Land/ROW Acquisition		25,000				25,000
Total	40,000	275,000	2,600,000			2,915,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	40,000	275,000	2,600,000			2,915,000
Total	40,000	275,000	2,600,000			2,915,000

Budget Impact/Other

The added 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 traffic signal infrastructure will add annual maintenance costs for the City's Public Works Department. The new traffic signal will result in additional electric power costs for the City.

Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs				2,000	2,000	4,000
Utilities				300	300	600
Total				2,300	2,300	4,600

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

Project #	STR-20-005
Project Name	NW 36th Street Widening-Ash to Ankeny Blvd



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works
Contact City Engineer
Type Improvement
Useful Life 20 years
Category Streets and Alleys

Project #	STR-20-006
Project Name	SE Delaware Avenue Widening

Description

This project involves pavement widening to add a lane on the west side of SE Delaware Avenue from the City limits north ~1,600 feet to where the existing asphalt street becomes concrete. The widening would create a three-lane section with a center two-way left turn lane (TWLTL). The project also includes milling the existing asphalt surface and Hot Mix Asphalt overlay to provide a uniform driving surface.

Justification

This project will improve traffic mobility, safety, and pavement conditions in a developing industrial area. In 2022, Polk County is planning to widen County NE 22nd Street/SE Delaware Avenue to a three-lane section with a center TWLTL and HMA overlay from County NE 54th Avenue north to the City limits and the south limits of the City’s proposed project. Based on initial discussions with Polk County Public Works, it may be possible to include the City’s project plans with Polk County’s project for economy of scale and to better coordinate construction staging and traffic control between the two projects.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	15,000	75,000				90,000
Engineering-Construction Services			50,000			50,000
Construction Costs			600,000			600,000
Total	15,000	75,000	650,000			740,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	15,000	75,000	650,000			740,000
Total	15,000	75,000	650,000			740,000

Budget Impact/Other

In the long term, the additional public street pavement on SE Delaware Avenue will increase maintenance costs for the City’s Public Works Department due to the additional winter maintenance and street sweeping that will be required.

Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs				500	500	1,000
Total				500	500	1,000

City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works

Contact City Engineer

Project # **STR-20-006**

Project Name	SE Delaware Avenue Widening
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2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-20-007
Project Name SE Delaware Ave and SE Corp Woods Dr Intersection

Description

The project will widen SE Delaware Avenue to provide a second thru-lane and a right-turn lane for northbound traffic, and widen SE Corporate Woods Drive to provide two eastbound lanes between SE Delaware Avenue and the I-35 and SE Corporate Woods Drive Interchange southbound on-ramp. The southbound left-turn lane on SE Delaware Avenue will also be re-stripped to provide dual turn lanes.

Justification

This project will relieve traffic congestion at the intersection and support the growth of commercial and industrial development along SE Delaware Avenue. The 2018 IOR identified an ultimate build-out for I-35 and SE Corporate Woods Interchange ramp modifications, which have not yet been programmed by the Iowa DOT, and further capacity improvements on SE Corporate Woods Drive, which are likely to be development-driven. This project serves immediate and interim traffic demands prior to those improvements. The street construction will primarily be in the southeast quadrant of the intersection, with striping and signage changes on the north leg, and relocation and/or replacement of two traffic signal poles.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	60,000					60,000
Engineering-Construction Services		40,000				40,000
Construction Costs		500,000				500,000
Total	60,000	540,000				600,000

Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	60,000	540,000				600,000
Total	60,000	540,000				600,000

Budget Impact/Other

The added public street pavement will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. All other infrastructure modifications replace existing facilities, with negligible maintenance or operating impacts.

Budget Items	2020	2021	2022	2023	2024	Total
Utilities			300	300	300	900
Total			300	300	300	900

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

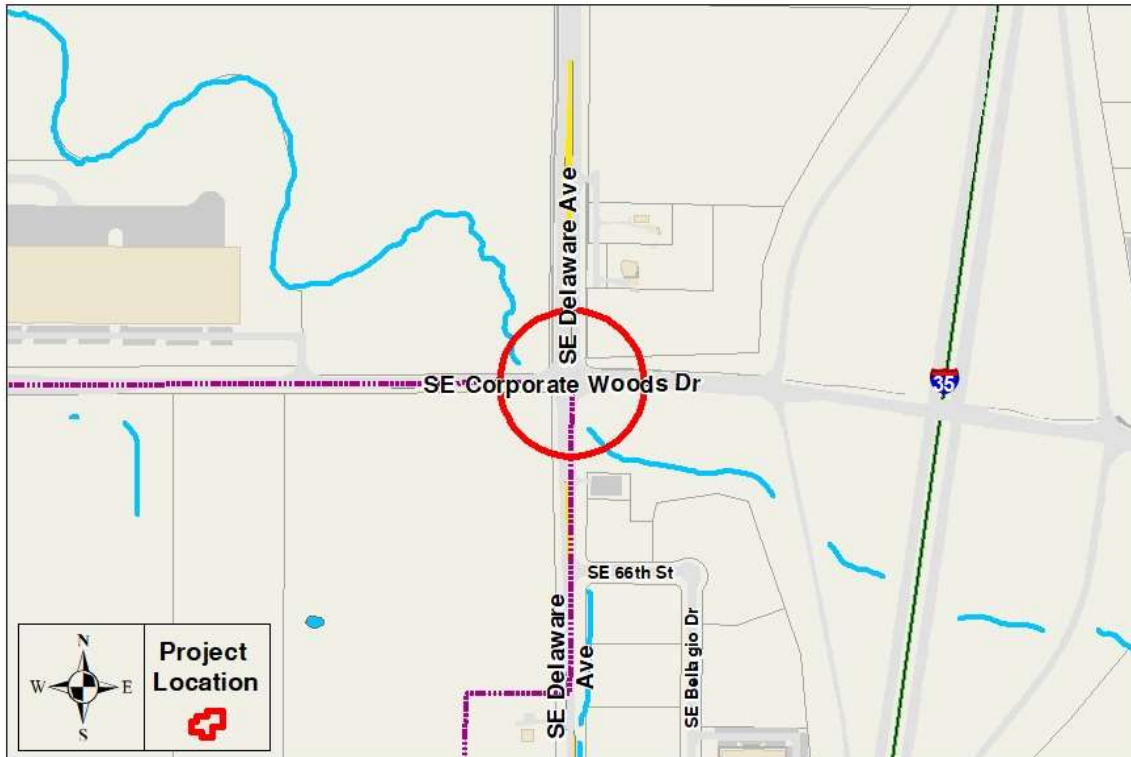
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-20-007

Project Name SE Delaware Ave and SE Corp Woods Dr Intersection



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project #	STR-20-008
Project Name	SW Oralabor Rd and SW State St Safety Improvements

Description

The proposed short-term project in 2020 will add traffic signal heads to allow for right-turn overlap and improve signal visibility. The proposed long-term project will widen all legs of the intersection to provide right-turn lanes and dual left-turn lanes on all approaches. The project also includes traffic signal and pedestrian ramp upgrades.

Justification

The SW Oralabor Road and SW State Street intersection was listed in the 2019 Iowa Department of Transportation (DOT)’s Top 200 Safety Improvement Location Candidates at #6. The City’s safety study found that the intersection is operating over capacity during peak periods, and identified a pattern of correctable congestion-related crashes. The long-term project will address the safety issues by providing additional capacity. The ultimate intersection configuration will include a right-turn lane, two thru-lanes and dual left-turn lanes on all approaches. These roads are joint jurisdiction with Iowa DOT as IA Highways 415 and 160, and Iowa DOT has reviewed the study and concurs with the recommendations. Funding applications will be made to Iowa’s Clean Air Attainment Program (ICAAP), Traffic Safety Improvement Program (TSIP) and Urban-State Traffic Engineering Program (U-STEP) during 2020.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	15,000		140,000			155,000
Engineering-Construction Services				120,000		120,000
Construction Costs	20,000			1,400,000		1,420,000
Total	35,000		140,000	1,520,000		1,695,000

Funding Sources	2020	2021	2022	2023	2024	Total
FHWA/IDOT Grants				700,000		700,000
G.O. Bonds	35,000		140,000	820,000		995,000
Total	35,000		140,000	1,520,000		1,695,000

Budget Impact/Other

The additional public street pavement on SW State Street, at the intersection’s north approach, will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. The Iowa DOT maintains IA Highways 415 and 160, so they would be responsible for maintaining the additional public street pavement at the intersection’s south, west and east approaches.

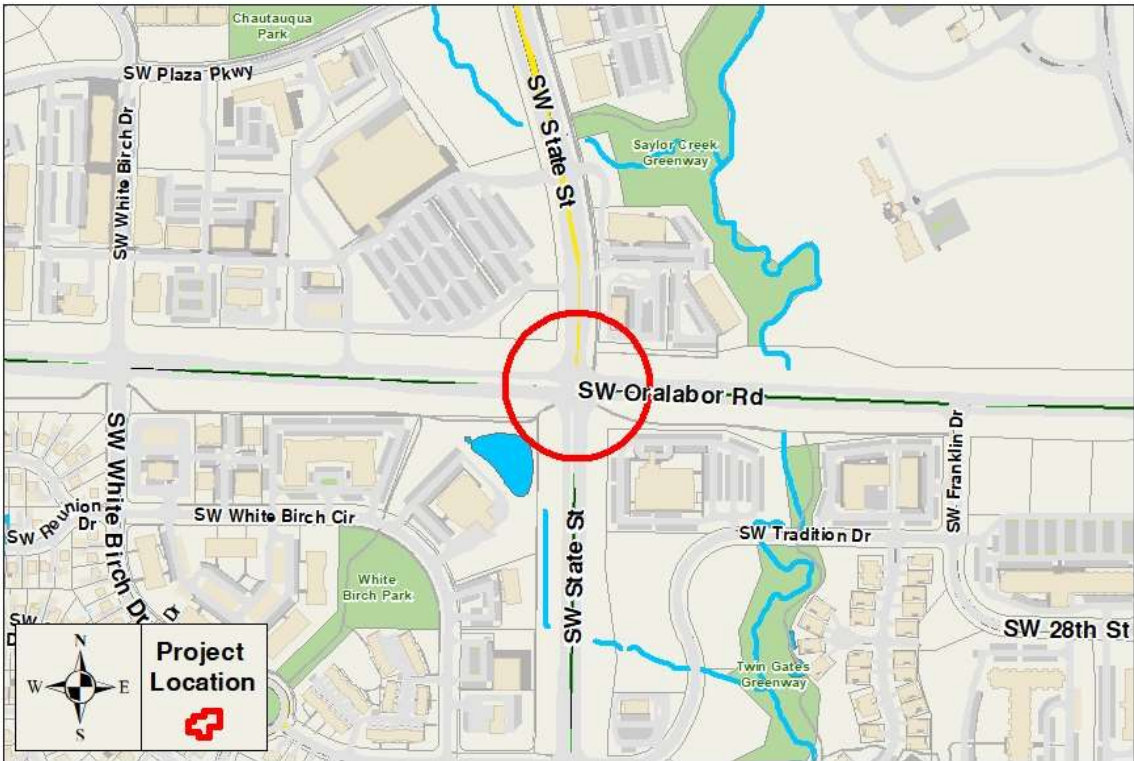
Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs					250	250
Total					250	250

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works
Contact City Engineer

Project #	STR-20-008
Project Name	SW Oralabor Rd and SW State St Safety Improvements



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 10 years

Category Streets and Alleys

Project # STR-20-009

Project Name West 1st Street Temporary Traffic Signals

Description

Construction of temporary span-wire traffic signals at the West 1st Street intersections with School Street and with SW Cherry Street/NW Ash Drive, and removal of the existing traffic signal infrastructure. This project will be completed in advance of the West 1st Street Widening and Improvements - Phase 1 project.

Justification

To provide the earliest possible start date for the West 1st Street Widening and Improvements - Phase 1 project, which is scheduled for construction in 2021 and 2022, this project will remove the existing traffic signals at West 1st Street and School Street and at West 1st Street and SW Cherry Street/NW Ash Drive, and construct temporary span-wire traffic signals supported by wood poles placed outside the construction limits. The existing cabinets and controllers will be replaced with new equipment that will also serve the final permanent installations.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	15,000					15,000
Construction Costs	110,000					110,000
Total	125,000					125,000
Funding Sources	2020	2021	2022	2023	2024	Total
G.O. Bonds	125,000					125,000
Total	125,000					125,000

Budget Impact/Other

The project will replace existing infrastructure, so any change in operating or maintenance costs will be negligible.

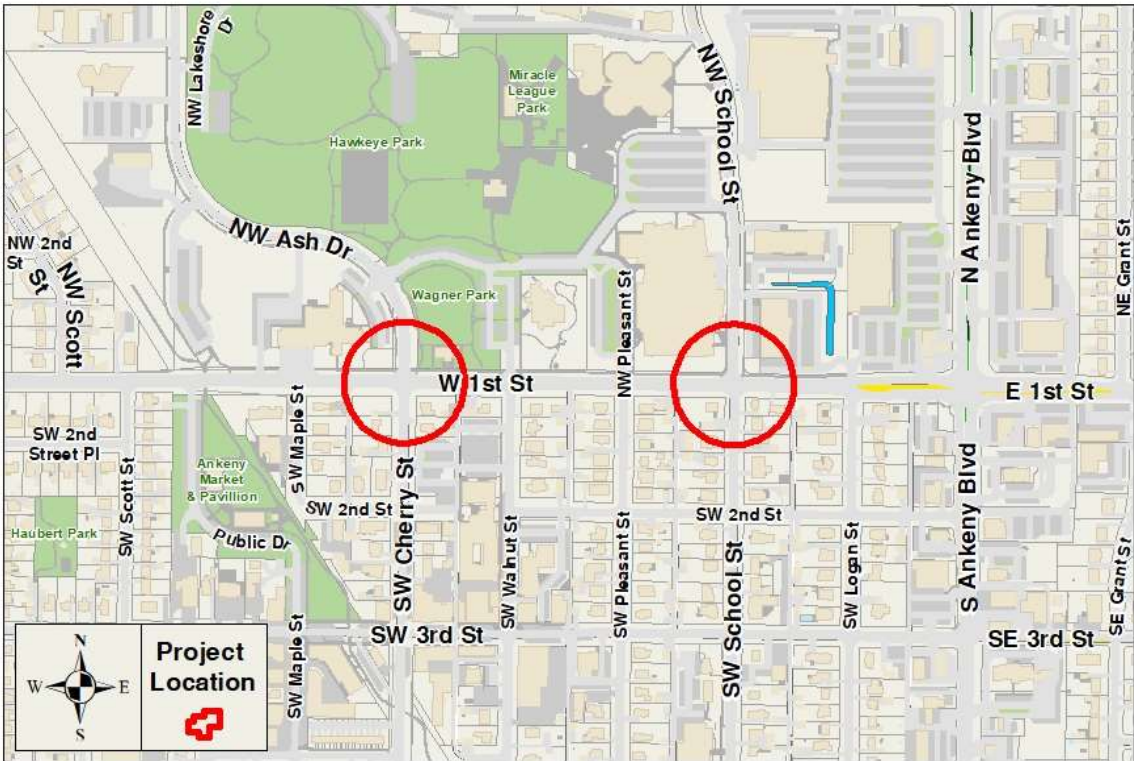
2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Public Works
Contact City Engineer

Project #	STR-20-009
Project Name	West 1st Street Temporary Traffic Signals



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 & Fiber Optic Upgrades:

2020 – NE 18th Street & NE Trilein Drive (traffic signal & fiber optic upgrade) - \$480,000 (construction) and \$45,000 (inspection)
2020 – East 1st Street Fiber Optic Upgrade - \$15,000 (design) and \$90,000 (construction)
2020 – North Ankeny Boulevard & NE 54th Street/County NE 118th Avenue (traffic signal) - \$15,000 (design) and \$130,000 (construction); cost share with Iowa DOT (\$45,000), Polk County (\$50,000), and City (\$50,000)
2020 – SE Delaware Avenue & SE 8th Street (left-turn lanes, traffic signal & fiber optic connection) - \$105,000 (design)
2020 – Fiber Optic Upgrade to New Public Services Building (PSB) - \$95,000 (construction)
2020 – High Trestle Trail crossing at NW State Street (RRFB or HAWK & fiber optic connection) - \$25,000 (design) and \$160,000 (construction)

2021 – SE Delaware Avenue & SE 8th Street (left-turn lanes for traffic signal) - \$650,000 (construction) and \$60,000 (inspection)
2021 – North Ankeny Boulevard Fiber Optic Upgrade from 1st Street to 18th Street - \$20,000 (design), \$150,000 (construction) and \$15,000 (inspection)

2022 – SE Delaware Avenue & SE 8th Street (traffic signal & fiber optic connection) - \$475,000 (construction) and \$10,000 (inspection)

2023 & 2024 – Traffic signal, beacon and fiber optic projects, to be determined - \$450,000

Potential Future Projects: SW Ordinance Road & SW Cherry Street; SW Oralabor Road & SW Westwinds Boulevard/SW Glenbrooke Boulevard; SE Quadrant Fiber Optic Upgrade; SW State Street & SW Plaza Parkway; West 1st Street & NW/SW Linden Street; NE Delaware Avenue & NE 5th Street; SW Quadrant Fiber Optic Upgrade; NW 36th Street & NW Ash Drive; NW 36th Street & NW State Street; NW 36th Street & NW Irvinedale Drive; 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; North Ankeny Boulevard & NW Reinhart Drive/NE 28th Street; South Ankeny Boulevard & SW Springfield Drive/SE 33rd Street; North Ankeny Boulevard & NE 47th Street; East 1st Street & Frisk Drive; SW Oralabor Road & SW College Avenue.

Potential future projects with developer cost share: East 1st Street & SE Four Mile Drive; East 1st Street & NE Four Mile Drive; NW 36th Street & Kwik Star access; SE Oralabor Road & Oralabor Plaza; SE Delaware Avenue & SE 54th Street.

Justification

In 2019, the City activated its 75th electronic traffic control device, including 9 speed zone or emergency beacons, 1 pedestrian beacon and 65 traffic signals. An effective and efficient traffic signal system improves traffic safety and mobility, reduces energy costs and enhances the quality of life for residents. Also, a robust and dependable communication system is key to management of the street network. The proposed locations of traffic signals and fiber optic upgrades 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.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	255,000	95,000	40,000	50,000	50,000	490,000
Construction Costs	885,000	800,000	445,000	400,000	400,000	2,930,000
Planning Estimate	20,000					20,000
Total	1,160,000	895,000	485,000	450,000	450,000	3,440,000
Funding Sources	2020	2021	2022	2023	2024	Total
County Contributions	50,000					50,000
FHWA/IDOT Grants	45,000					45,000
G.O. Bonds	1,065,000	895,000	485,000	450,000	450,000	3,345,000
Total	1,160,000	895,000	485,000	450,000	450,000	3,440,000

Budget Impact/Other

In the long-term, additional traffic signal infrastructure will add annual maintenance costs for the City's Public Works Department. Industry

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

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	2020	2021	2022	2023	2024	Total
Utilities	1,100	2,000	2,600	2,900	3,500	12,100
Total	1,100	2,000	2,600	2,900	3,500	12,100

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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 2020 to 2024 include the following:

- Development water main over-sizing: 2020 to 2024 – \$100,000/year
- I/3 SE Eastlawn Area Utility Improvements: 2020 – \$10,000 (engineering) \$380,000 (construction);
- I/3 NW Northlawn Area Utility Improvements (4 phases): 2020 - \$50,000 (engineering); 2021 - \$60,000 (engineering) \$555,000 (construction); 2022 - \$55,000 (engineering) \$495,000 (construction); 2023 - \$50,000 (engineering) \$420,000 (construction); 2024 - \$10,000 (engineering) \$410,000 (construction)
- SE 8th Street (SE Sharon Drive to South Ankeny Boulevard) Water Main Improvements (2 phases), 2020 - \$150,000; 2021 \$175,000

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. Engineering 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. The water main oversizing has increased due to the use of 16” main that will be cost shared for several upcoming projects.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	60,000	60,000	55,000	50,000	10,000	235,000
Construction Costs	630,000	830,000	595,000	520,000	510,000	3,085,000
Total	690,000	890,000	650,000	570,000	520,000	3,320,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	190,000	390,000	150,000			730,000
Water Fund	500,000	500,000	500,000	570,000	520,000	2,590,000
Total	690,000	890,000	650,000	570,000	520,000	3,320,000

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	2020	2021	2022	2023	2024	Total
Personnel Costs	10,000	10,500	11,000	11,500	12,000	55,000
Utilities	400	400	400	400	400	2,000
Total	10,400	10,900	11,400	11,900	12,400	57,000

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-00-001

Project Name Annual Water Main Replacement Program



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Ankeny

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2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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

This project will 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	2020	2021	2022	2023	2024	Total
Engineering-Design		250,000				250,000
Engineering-Construction Services			250,000			250,000
Construction Costs			3,750,000			3,750,000
Total		250,000	4,000,000			4,250,000
Funding Sources	2020	2021	2022	2023	2024	Total
Water Revenue Bonds		250,000	4,000,000			4,250,000
Total		250,000	4,000,000			4,250,000

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 city 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	2020	2021	2022	2023	2024	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

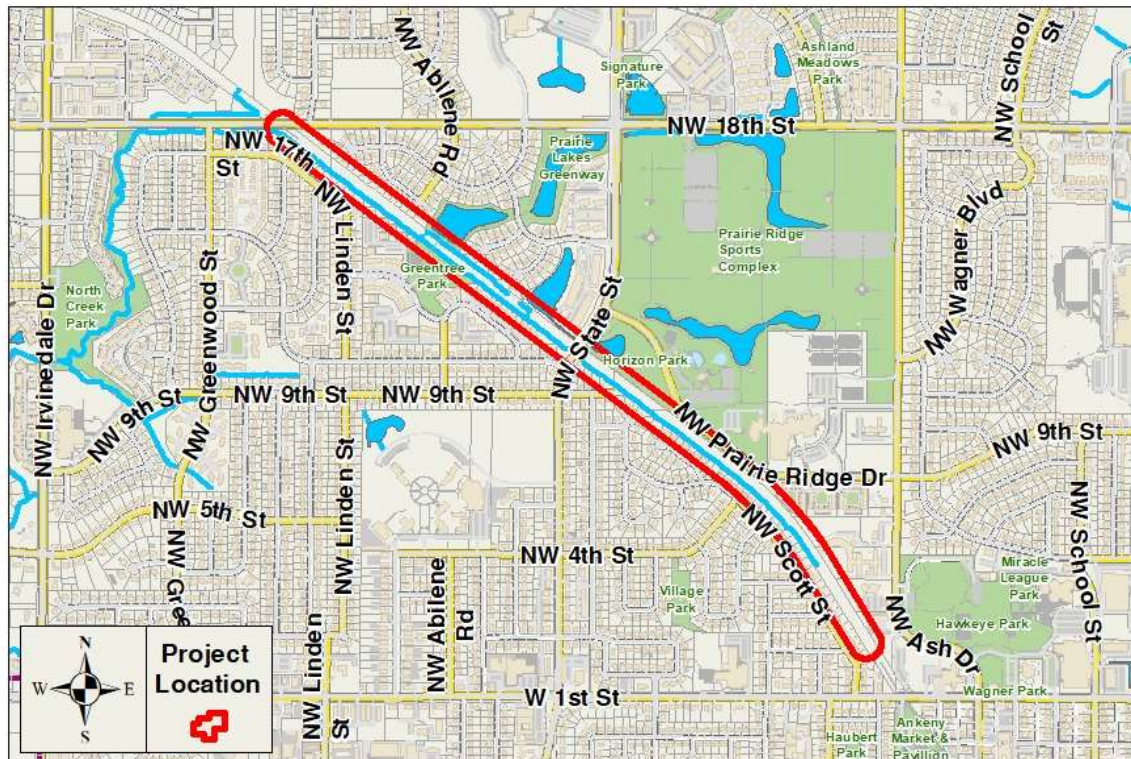
2020 *thru* 2024

Department Water Utility

Contact Municipal Utilities Director

Project # **WTM-17-001**

Project Name High Trestle Trail Transmission Main



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 main running north/south. This project will eliminate a gap in the transmission/distribution water main in this area of the City. The use of trenchless construction for the water main will be used to reduce disruption of existing streets and other utilities. This project is currently under design and will be constructed in 2020.

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	2020	2021	2022	2023	2024	Total
Engineering-Construction Services	60,000					60,000
Construction Costs	525,000					525,000
Land/ROW Acquisition	50,000					50,000
Total	635,000					635,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	635,000					635,000
Total	635,000					635,000

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.

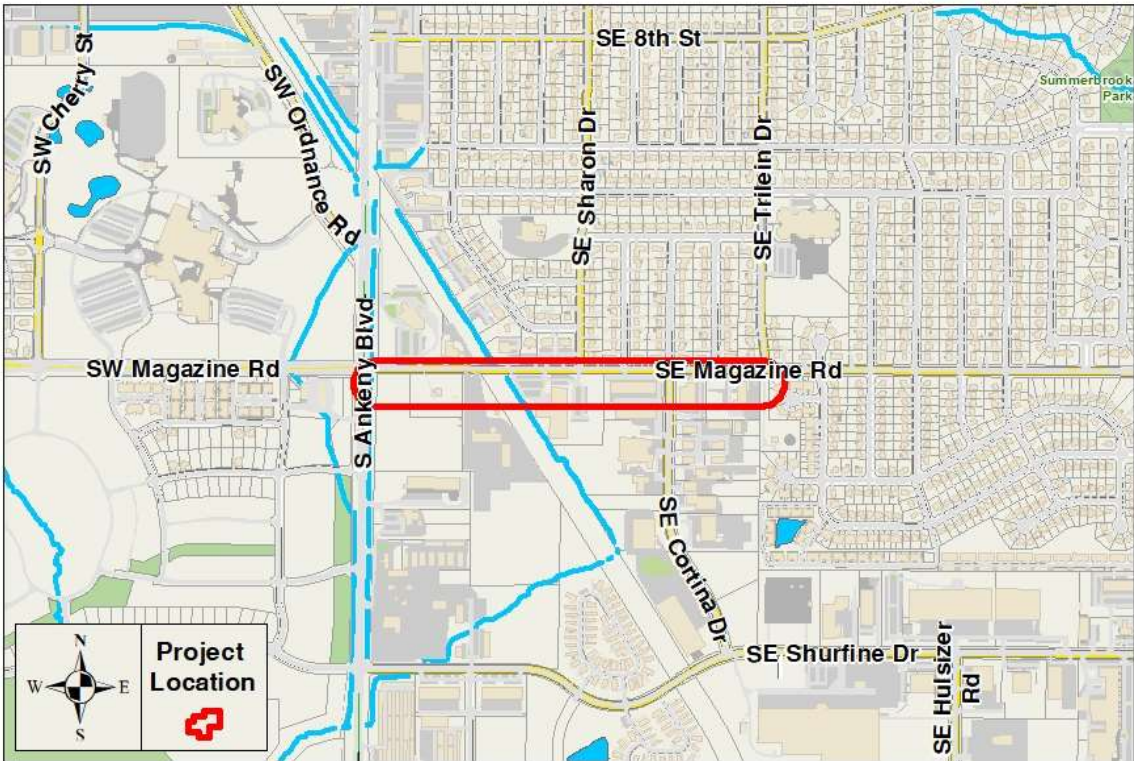
Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs	6,000					6,000
Utilities	300					300
Total	6,300					6,300

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 *thru* 2024

Department Water Utility
Contact Municipal Utilities Director

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 7,900 LF of 24" transmission water main along the west side of SW Irvinedale Drive from the SW Water Tower to approximately 500 feet north of West 1st Street. There will be approximately 4,000 LF of directionally drilled main to limit the impact to the existing neighborhood. Connecting both ends to existing 24" mains. Construction is planned for 2020, as this project has been designed.

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 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 once we reach the NW Booster Station with Phase 3.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Construction Services	200,000					200,000
Construction Costs	2,300,000					2,300,000
Total	2,500,000					2,500,000
Funding Sources	2020	2021	2022	2023	2024	Total
Water Revenue Bonds	2,500,000					2,500,000
Total	2,500,000					2,500,000

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 the design phase. It will take approximately 940,000 gallons to fill and flush the new main.

Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs	6,000					6,000
Utilities	2,200					2,200
Total	8,200					8,200

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Water Utility
Contact Municipal Utilities Director

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 4,700 LF of 24" transmission water main along NW Irvinedale Drive from NW 9th Street north to NW 18th Street and from just north of Trestle Ridge Estates Plat 3 to the future NW Water Tower site. This first year will be designing, engineering, easement acquisition, and administration with construction to follow in 2021.

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 and from the NW Booster Station to the future NW Water Tower. The south section of this project 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 storage and distribution system. The north section of this project will result in the Northwest Pressure Zone operating from the NW Tower elevation with a gradient of 1,140 and not via pressure sensors at the NW Booster Station. This will provide more reliable water pressure and flow in that zone.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	160,000					160,000
Engineering-Construction Services		160,000				160,000
Construction Costs		1,780,000				1,780,000
Total	160,000	1,940,000				2,100,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	160,000					160,000
Water Revenue Bonds		1,940,000				1,940,000
Total	160,000	1,940,000				2,100,000

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 150 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. Additionally 150 hours of staff time will be needed during design and engineering. It will take almost 560,000 gallons to fill and flush the new main.

Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs	14,000	9,000				23,000
Utilities		1,250				1,250
Total	14,000	10,250				24,250

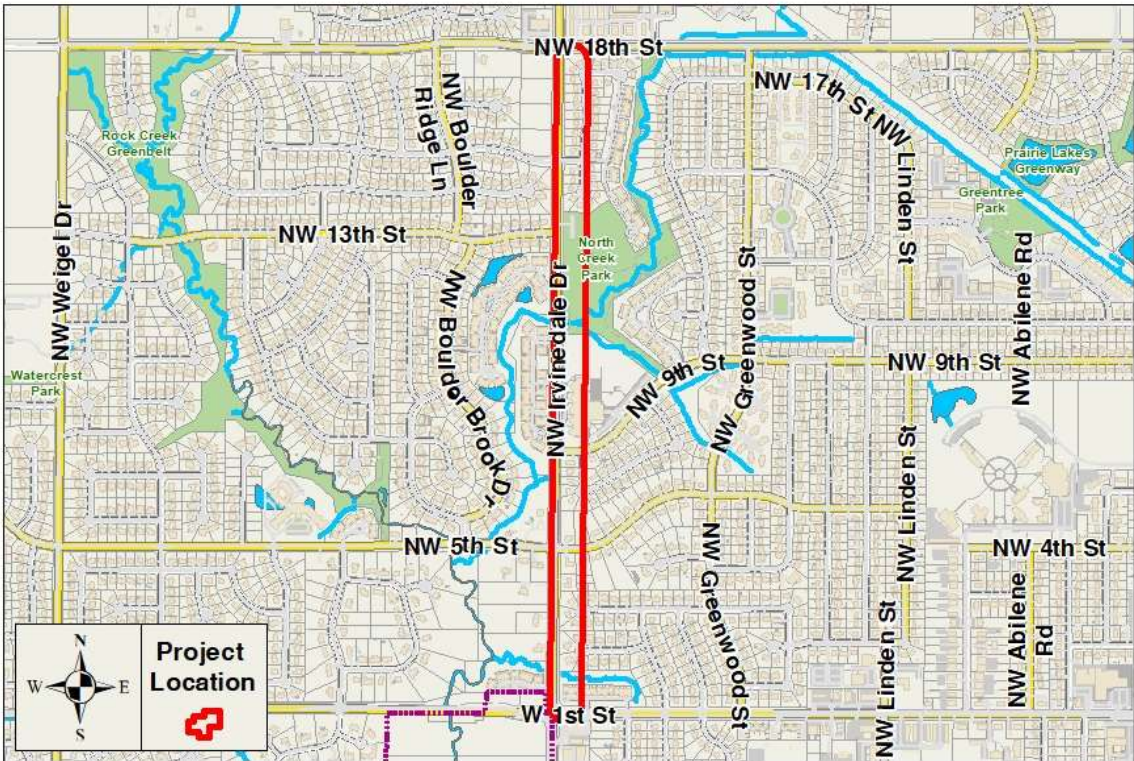
2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Water Utility
Contact Municipal Utilities Director

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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, 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	2020	2021	2022	2023	2024	Total
Legal-General/Spec. Assessment					10,000	10,000
Other Costs					700,000	700,000
Total					710,000	710,000
Funding Sources	2020	2021	2022	2023	2024	Total
Water Revenue Bonds					710,000	710,000
Total					710,000	710,000

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.

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

2020 *thru* 2024

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-17-008

Project Name Purchase Capacity in Saylorville Feeder Main



city of
Ankeny

bringing it all together

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 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	2020	2021	2022	2023	2024	Total
Engineering-Design			165,000			165,000
Engineering-Construction Services				165,000		165,000
Construction Costs				1,845,000		1,845,000
Total			165,000	2,010,000		2,175,000

Funding Sources	2020	2021	2022	2023	2024	Total
Water Revenue Bonds			165,000	2,010,000		2,175,000
Total			165,000	2,010,000		2,175,000

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	2020	2021	2022	2023	2024	Total
Personnel Costs			9,000	6,000		15,000
Utilities				1,500		1,500
Total			9,000	7,500		16,500

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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	South Ankeny Boulevard Water Main Improvements

Description

Install approximately 3,150 LF of 16” water main extension along the east side of 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 transmission main will help maintain system pressure and reduce maintenance issues within the service area.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design				90,000		90,000
Engineering-Construction Services					90,000	90,000
Construction Costs					880,000	880,000
Total				90,000	970,000	1,060,000

Funding Sources	2020	2021	2022	2023	2024	Total
Water Revenue Bonds				90,000	970,000	1,060,000
Total				90,000	970,000	1,060,000

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. It will also take about 165,000 gallons to fill and flush the new main.

Budget Items	2020	2021	2022	2023	2024	Total
Maintenance Costs					400	400
Personnel Costs					16,000	16,000
Total					16,400	16,400

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

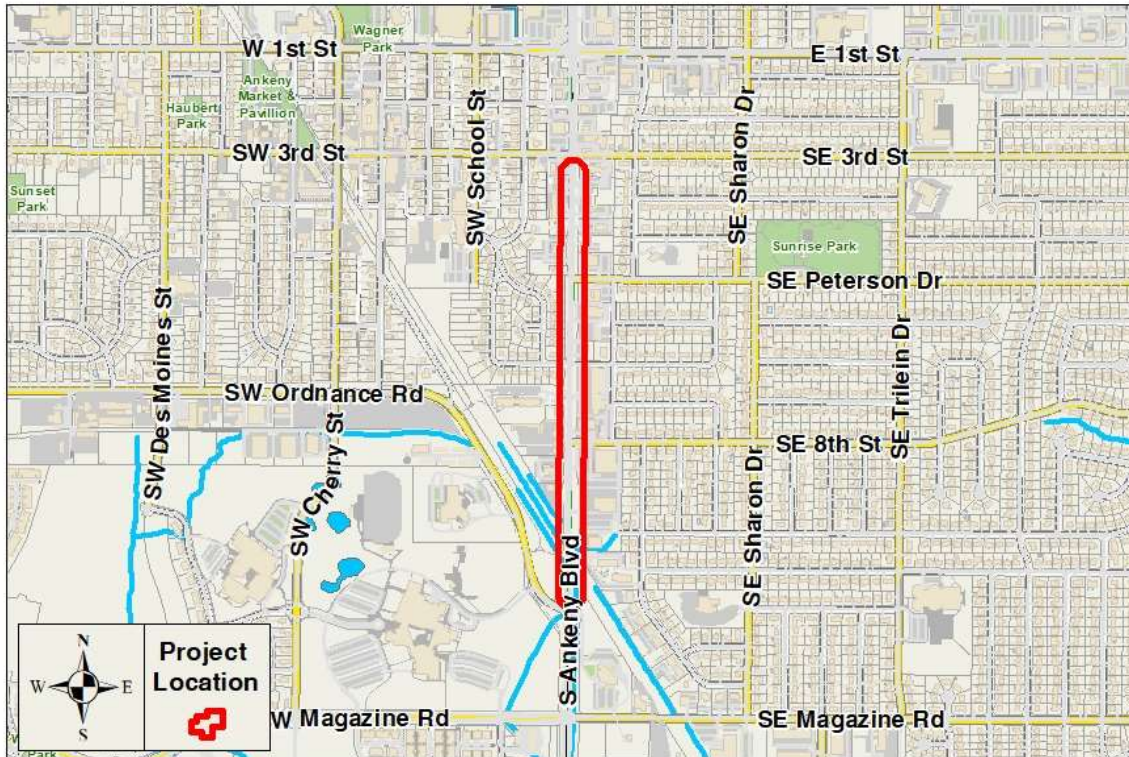
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-19-001

Project Name South Ankeny Boulevard Water Main Improvements



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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 Drive Water Main

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 NW 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	2020	2021	2022	2023	2024	Total
Construction Costs	100,000					100,000
Total	100,000					100,000

Funding Sources	2020	2021	2022	2023	2024	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	2020	2021	2022	2023	2024	Total
Personnel Costs		6,000				6,000
Utilities		250				250
Total		6,250				6,250

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

Project #	WTM-19-002
Project Name	NW Irvinedale Drive Water Main



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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

Description

Install approximately 2,800 LF of 12” distribution water main on the west side of NW State Street from West 1st 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 connect the 12” distribution water main along NW State Street from West 1st Street to NW 10th Street in order to remove a bottleneck during high water demand periods and improve fire flows northwest of this location.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design				70,000		70,000
Engineering-Construction Services					70,000	70,000
Construction Costs					810,000	810,000
Total				70,000	880,000	950,000
Funding Sources	2020	2021	2022	2023	2024	Total
Water Revenue Bonds				70,000	880,000	950,000
Total				70,000	880,000	950,000

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 75 hours of staff review time during design. There will be approximately 125 hours of staff time during construction for de-chlorinating, pressure testing, operating valves, and locating services. It will also take about 81,000 gallons to fill and flush the new main.

Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs				4,500	7,500	12,000
Utilities					250	250
Total				4,500	7,750	12,250

City of Ankeny, Iowa

2020 *thru* 2024

Department Water Utility

Contact Municipal Utilities Director

Project # **WTM-19-003**

Project Name NW State Street Water Main Improvements



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Water Utility

Contact

Type Unassigned

Useful Life

Category Water Mains

Project #	WTM-20-001
Project Name	NW 36th Street and NW Weigel Drive Water Main

Description

Install approximately 9,300 LF of 16” water main along NW 36th Street from NW Irvinedale Drive to NW Weigel Drive and along NW Weigel Drive from NW 36th Street to NW 18th Street. This first year will be designing, engineering, easement acquisition, and administration with construction to follow in 2021.

Justification

The purpose of this project is to add a redundant line for the boosted northwest pressure zone. Currently there is only one 12” main feeding this area. If there was any type of failure in the existing 12” main, major operational changes would be needed, and this area would no longer have boosted pressure.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design	120,000					120,000
Engineering-Construction Services		120,000				120,000
Construction Costs		1,235,000				1,235,000
Total	120,000	1,355,000				1,475,000
Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	120,000					120,000
Water Revenue Bonds		1,355,000				1,355,000
Total	120,000	1,355,000				1,475,000

Budget Impact/Other

This is an entirely new water main. 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 480,000 gallons to fill and flush the new main.

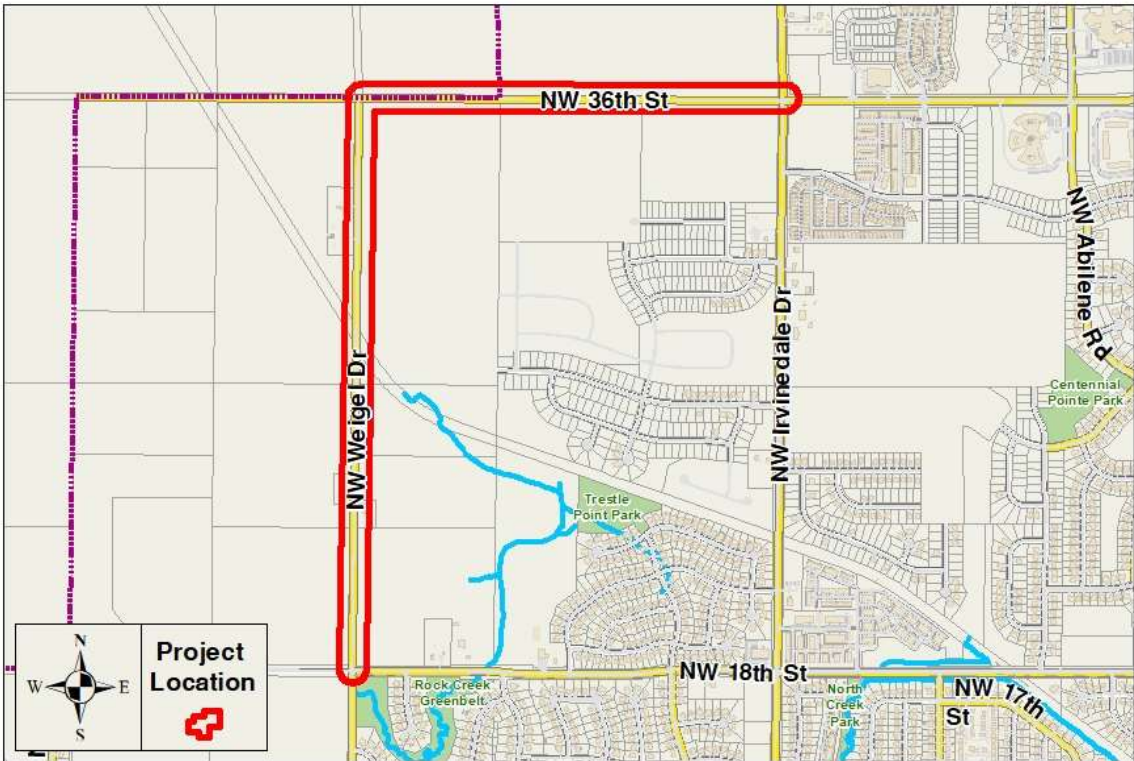
Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs	10,000	6,000				16,000
Total	10,000	6,000				16,000

2020 - 2024 Capital Improvement Program
City of Ankeny, Iowa

2020 *thru* 2024

Department Water Utility
Contact

Project #	WTM-20-001
Project Name	NW 36th Street and NW Weigel Drive Water Main



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	WTM-20-002
Project Name	SW Walnut Street and SW Ordnance Road Water Main

Description

Install approximately 3,600 LF of 8” water main along the west side of SW Walnut Street from SW 3rd Street to the north side of SW Ordnance Road, and along SW Ordnance Road from SW Cherry Street to an existing main adjacent to the police station. The project will provide increased reliability of the transmission/distribution system within this area, as the main will be upsized from 4” to 8”. The project will utilize open cut construction, and a temporary water supply system will be utilized to keep the existing homes within the area in service.

Justification

The existing 4” water main within the area is undersized by current standards. Installation of the larger waterline, along with connection to surrounding feeds provides a reliable looped system and helps to maintain better distribution system pressures within the area. Construction of the project is anticipated for 2022.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design		112,000				112,000
Engineering-Construction Services			112,000			112,000
Construction Costs			1,240,000			1,240,000
Total		112,000	1,352,000			1,464,000
Funding Sources	2020	2021	2022	2023	2024	Total
Water Revenue Bonds		112,000	1,352,000			1,464,000
Total		112,000	1,352,000			1,464,000

Budget Impact/Other

The operating impact will have negligible cost implications as it will primarily help the fire flows in the area. There will be approximately 100 hours of staff review time during design. There will be approximately 125 hours of staff time during construction for de-chlorinating, pressure testing, operating valves, and locating services. It will also take about 47,000 gallons to fill and flush the new main.

Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs			7,500			7,500
Utilities			150			150
Total			7,650			7,650

Project #	WTM-20-002
Project Name	SW Walnut Street and SW Ordinance Road Water Main



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

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	2020	2021	2022	2023	2024	Total
Consultant		300,000				300,000
Engineering-Construction Services			300,000			300,000
Construction Costs			3,500,000			3,500,000
Land/ROW Acquisition			350,000			350,000
Total		300,000	4,150,000			4,450,000
Funding Sources	2020	2021	2022	2023	2024	Total
Water Revenue Bonds		300,000	4,150,000			4,450,000
Total		300,000	4,150,000			4,450,000

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. Financial impacts will be estimated once a site is chosen and the amount of water main being installed is known.

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTT-17-002

Project Name Aquifer Storage and Recovery #1 Replacement



2020 - 2024 Capital Improvement Program

2020 thru 2024

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 have since drained the tower and had a full inspection completed to evaluate the integrity of the entire paint project from original construction. We are expecting a full written report from this inspection within a couple of weeks.

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 from above the water level and settling at the bottom of the tank. We were concerned of the status of the rest of the tower so we hired Dixon Engineering to evaluate the integrity of all of the paint on the interior of the tower. The initial word we received from their inspector was that 2 additional areas roughly 15 feet by 30 feet below the water surface were bubbling and only a matter of time before that paint started to peel as well. Based on this information and the recommendation of Dixon Engineering, it is proposed to repair and repaint just the areas affected in lieu of completing the entire interior of the tank. They expect this work could be completed within 3 to 4 weeks so our intention would be to keep the tank empty for this winter to have this work completed early this spring before our water demands increase. We would also need to have the tank drain valve replaced with this project.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Construction Services	20,000					20,000
Construction Costs	70,000					70,000
Total	90,000					90,000

Funding Sources	2020	2021	2022	2023	2024	Total
Capital Project Fund	90,000					90,000
Total	90,000					90,000

Budget Impact/Other

The operating impact will would be smaller at this time as the tank is currently out of service. It is estimated that 50 hours of staff time to review the plans and specifications. We would also save money in flushing out the water tower since it is already out of service.

Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs	5,000					5,000
Total	5,000					5,000

2020 - 2024 Capital Improvement Program

2020 *thru* 2024

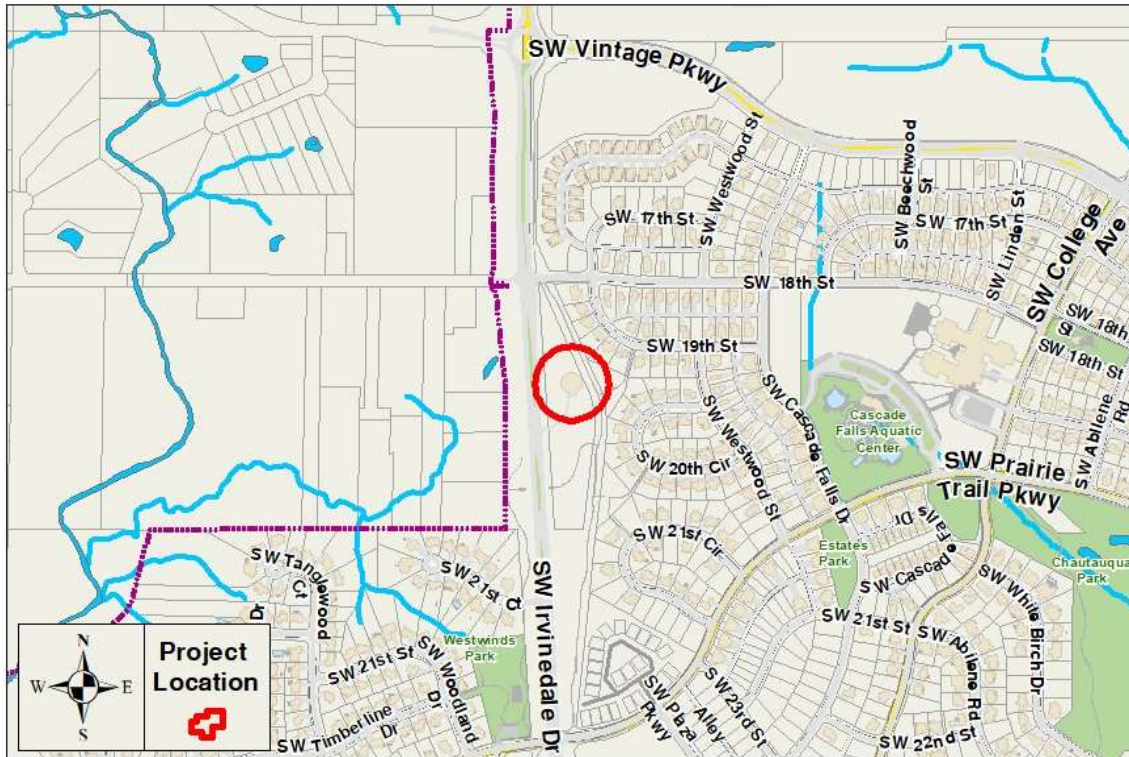
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTT-19-001

Project Name SW Water Tower Interior Repaint



2020 - 2024 Capital Improvement Program

2020 thru 2024

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	2020	2021	2022	2023	2024	Total
Engineering-Design			300,000			300,000
Engineering-Construction Services				300,000		300,000
Construction Costs				6,503,000		6,503,000
Total			300,000	6,803,000		7,103,000

Funding Sources	2020	2021	2022	2023	2024	Total
Water Revenue Bonds			300,000	6,803,000		7,103,000
Total			300,000	6,803,000		7,103,000

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	2020	2021	2022	2023	2024	Total
Personnel Costs			9,000	9,000		18,000
Utilities				15,000		15,000
Total			9,000	24,000		33,000

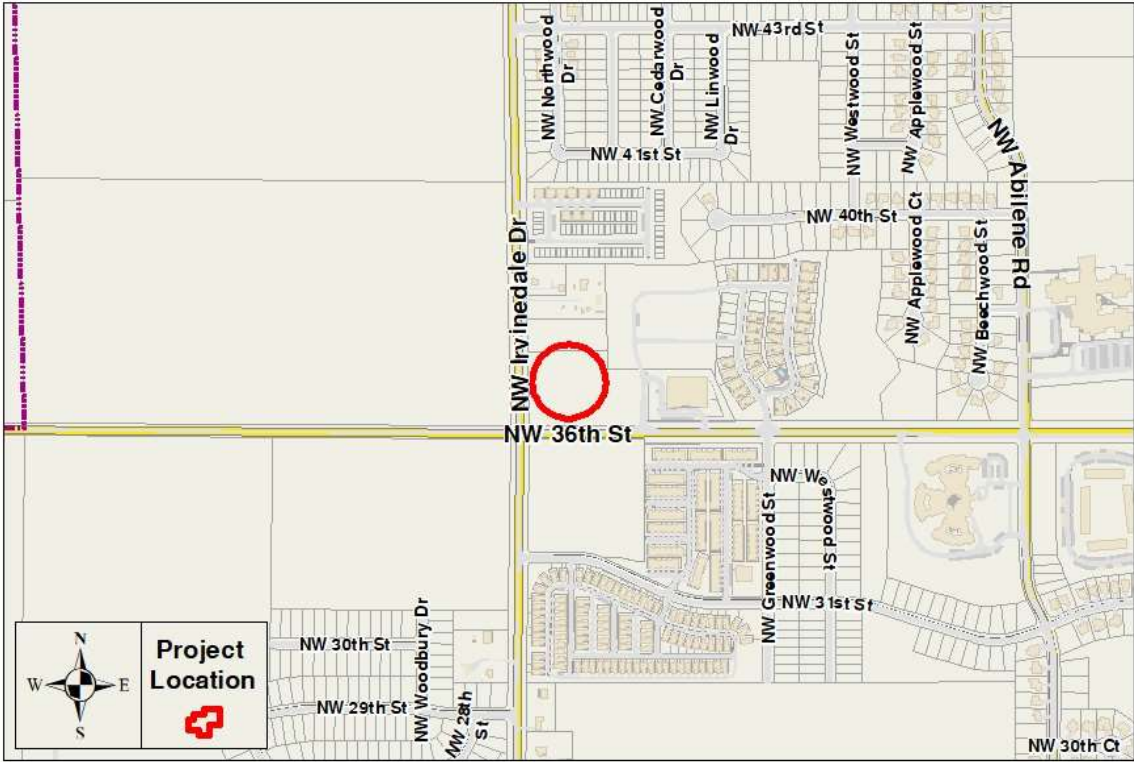
2020 - 2024 Capital Improvement Program

2020 thru 2024

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

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



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	WTT-20-001
Project Name	SE Delaware Ground Storage Tank Repaint

Description

This project is to repaint the interior and exterior of the SE Delaware Ground Storage Tank. The existing paint is starting to show signs of wear as the usefulness of the existing coating is breaking down. Typically one can expect painted surfaces to last in the 15-20 year range. This ground storage tank was last painted around the year 2000.

Justification

This project is needed to maintain the ability to provide safe and potable drinking water to Ankeny residents. Maguire Iron completed a review of our existing water storage infrastructure and made recommendations to recoat both the interior and exterior of the SE Delaware Ground Storage Tank. This tank is showing signs of streaking and spotting rust in areas on both surfaces. To overcoat this facility it would require a brush blast to rough up the existing surface to allow for a better bonding of new coating to existing coating.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design				20,000		20,000
Construction Costs				280,000		280,000
Total				300,000		300,000

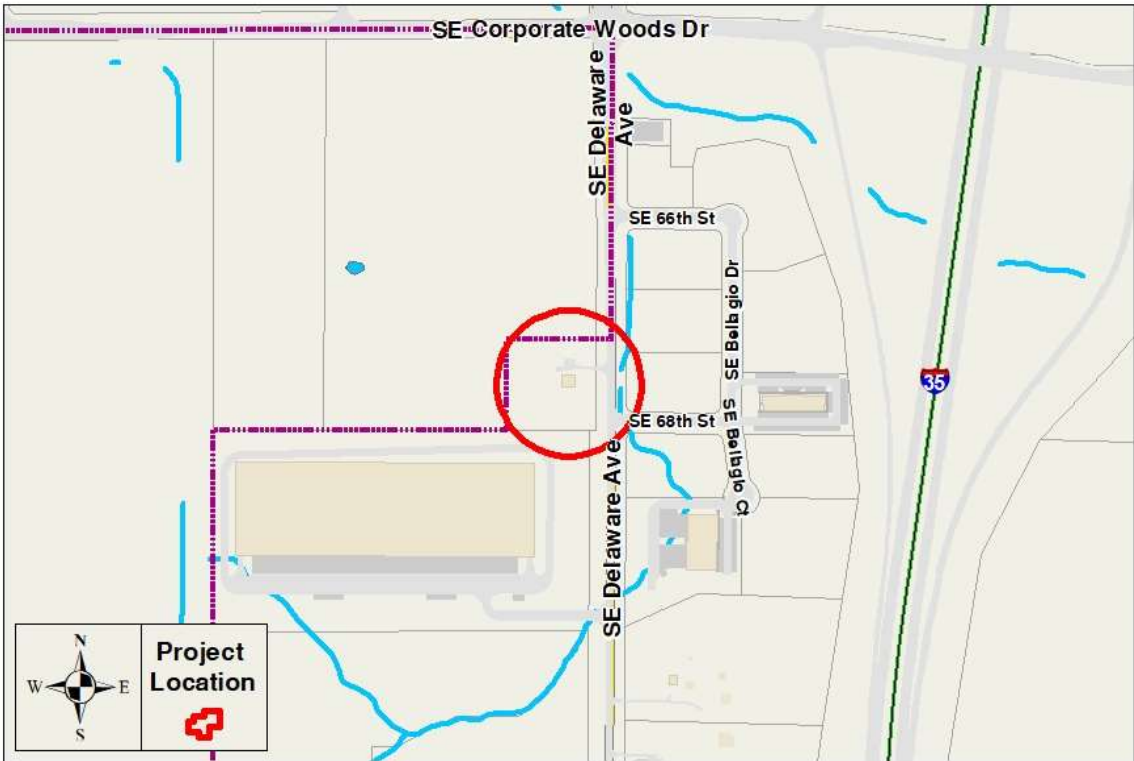
Funding Sources	2020	2021	2022	2023	2024	Total
Water Revenue Bonds				300,000		300,000
Total				300,000		300,000

Budget Impact/Other

The operating impact will include approximately 50 hours of staff time to isolate this facility and take it out of service and then reinstall service once painting is complete. It is estimated that 50 hours of staff time to review the plans and specifications. It would take approximately 500,000 gallons to flush out the existing tank.

Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs				8,000		8,000
Utilities				1,300		1,300
Total				9,300		9,300

Project #	WTT-20-001
Project Name	SE Delaware Ground Storage Tank Repaint



2020 - 2024 Capital Improvement Program

2020 *thru* 2024

City of Ankeny, Iowa

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

Project #	WTT-20-002
Project Name	SE Magazine Ground Storage Tank Repaint

Description

This project is to repaint the interior and exterior of the SE Magazine Ground Storage Tank. The existing paint is starting to show signs of wear as the usefulness of the existing coating is breaking down. Typically one can expect painted surfaces to last in the 15-20 year range. This ground storage tank was last painted around the year 2002.

Justification

This project is needed to maintain the ability to provide safe and potable drinking water to Ankeny residents. Maguire Iron completed a review of our existing water storage infrastructure and made recommendations to recoat both the interior and exterior of the SE Magazine Ground Storage Tank. This tank is showing signs of streaking and spotting rust in areas on both surfaces. To overcoat this facility it would require a brush blast to rough up the existing surface to allow for a better bonding of new coating to existing coating.

Expenditures	2020	2021	2022	2023	2024	Total
Engineering-Design					25,000	25,000
Construction Costs					375,000	375,000
Total					400,000	400,000

Funding Sources	2020	2021	2022	2023	2024	Total
Water Revenue Bonds					400,000	400,000
Total					400,000	400,000

Budget Impact/Other

The operating impact will include approximately 50 hours of staff time to isolate this facility and take it out of service and then reinstall service once painting is complete. It is estimated that 50 hours of staff time to review the plans and specifications. It would take approximately 1,000,000 gallons to flush out the existing tank.

Budget Items	2020	2021	2022	2023	2024	Total
Personnel Costs					8,000	8,000
Utilities					2,500	2,500
Total					10,500	10,500

2020 - 2024 Capital Improvement Program

City of Ankeny, Iowa

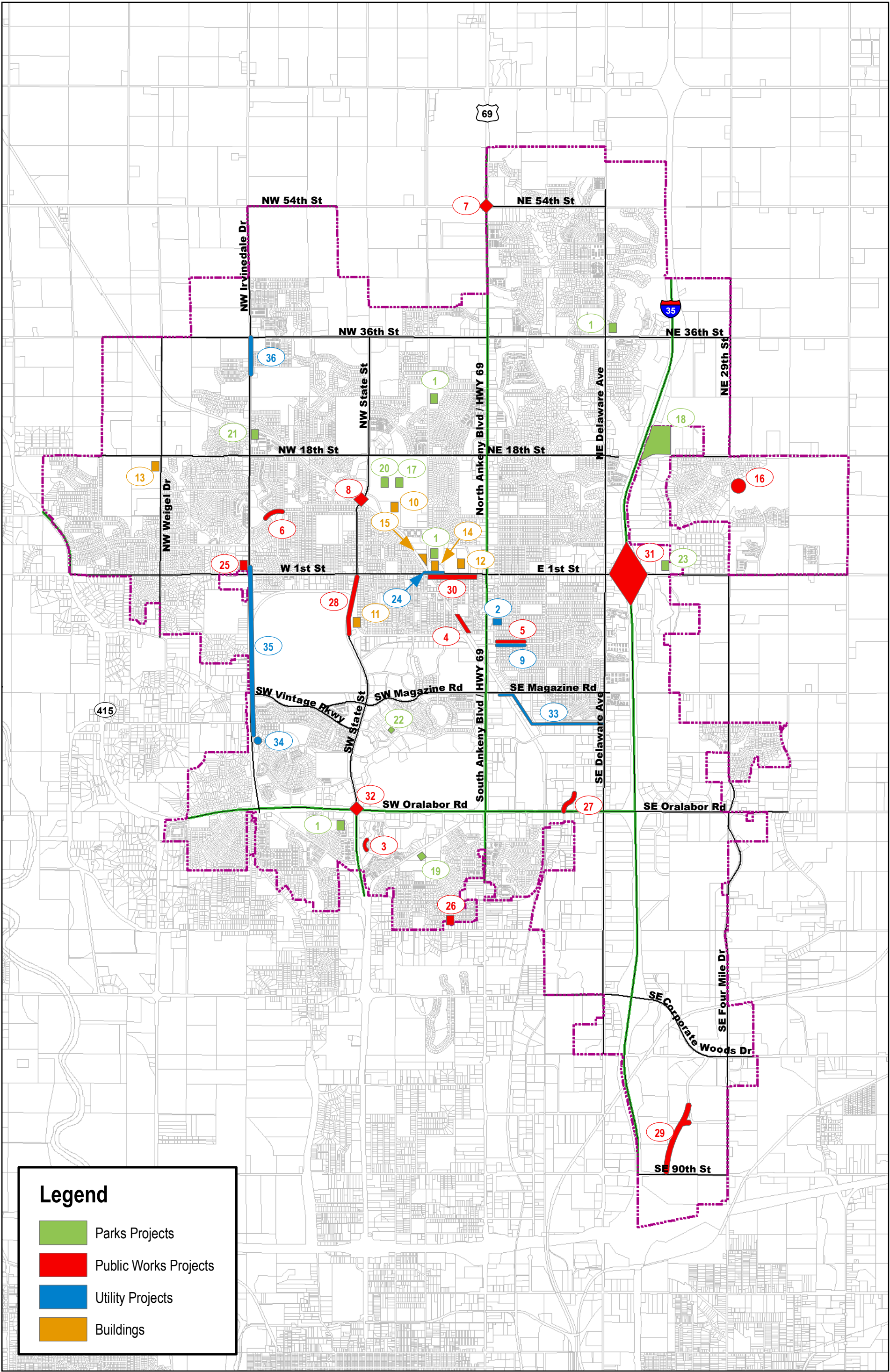
2020 *thru* 2024

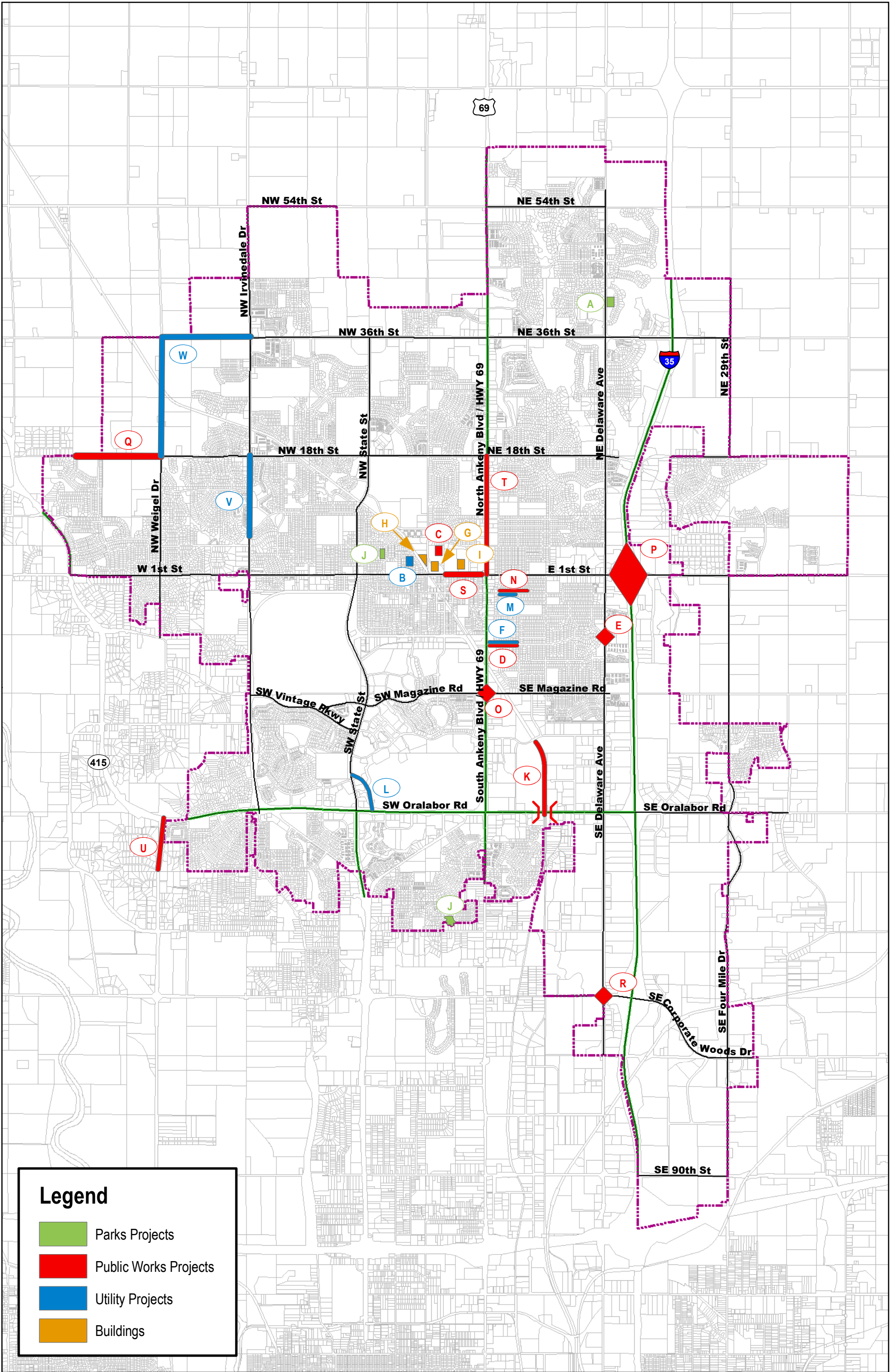
Department Water Utility
Contact Municipal Utilities Director

Project #	WTT-20-002
Project Name	SE Magazine Ground Storage Tank Repaint



Section 5





Legend

- Parks Projects
- Public Works Projects
- Utility Projects
- Buildings



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