



City of Grand Island

Tuesday, August 10, 2021

Council Session

Item E-1

Public Hearing on One and Six Year Street Improvement Plan

Council action will take place under Resolutions item I-2.

Staff Contact: John Collins, P.E. - Public Works Director

Capital Projects 2021/2022



John Collins, PE
City Engineer/Public Works Director

2021 Projects

- Stolley Park Rd Rehabilitation
- Annual Curb Ramp Project No. 2021-CR-1
- Webb Rd Paving Assessments
- Sycamore Underpass Rehabilitation
- Pavement Condition
- Five Points Intersection Improvements
- Old Potash Hwy; North Rd to Webb Rd
- US Hwy 30 Realignment (NDOT)
- Broadwell/UPRR Grade Separation
- Signal Timing
- North Rd; 13th St to Hwy 2
- North Rd; Old Potash Hwy to 13th St
- North Rd; Hwy 30 to Old Potash Hwy
- US Hwy 30 Bridges (NDOT)
- Custer Ave Rehabilitation
- Eddy St Underpass Rehabilitation
- Capital Ave; Moores Creek to North Rd
- Hwy 2; Cairo to Grand Island (NDOT)
- Bond Payment
- NW Flood Control Project
- Moores Creek Drain Extension
- N Broadwell Drainage
- N 80 Wetland Delineation
- Sidewalk Cost Share Program
- Capital Ave Drainage Improvements
- PVIP Drainage Dist. No. 2020-1
- Capital Heights Drainage
- Misc. Drainage Improvements
- US Hwy 30 Drainage (NDOT)

2021 Capital Improvement Projects

Funded by Gas Tax

<i>Project</i>	<i>2021 Budget</i>	<i>2021 Forecast</i>
Stolley Park Rd Rehabilitation	\$ -	\$ 500
Annual Curb Ramp Project (2021-CR-1)	\$ 155,000	\$ 155,000
Webb Rd Paving Assessments	\$ 120,000	\$ 120,000
Sycamore Underpass Rehab	\$ -	\$ 119,072
Pavement Condition	\$ -	\$ 2,821
Five Pts Intersection Improvements	\$ -	\$ 2,500
Old Potash Hwy; North Rd to Webb Rd	\$ 7,875,000	\$ 7,875,000
US Hwy 30 Realignment	\$ -	\$ 200
Broadwell /UPRR Grade Separation	\$ 124,000	\$ 184,041
Signal Timing	\$ -	\$ 1,230
North Rd; 13th St to Hwy 2	\$ 2,540,000	\$ 3,161,652
North Rd; Old Potash Hwy to 13th St	\$ 15,000	\$ 15,000
North Rd; US Hwy 30 to Old Potash Hwy	\$ 15,000	\$ 35,000
US Hwy 30 Bridges	\$ -	\$ 4,000
Custer Ave Rehabilitation	\$ 900,000	\$ 100,000
Eddy St Underpass Rehabilitation	\$ 900,000	\$ 80,000
Capital Ave; Moores Creek to North Rd	\$ 1,090,000	\$ 140,000
Hwy 2; Cairo to Grand Island	\$ -	\$ 500
Bond Payment	\$ -	\$ 237,485
	\$ 12,734,000	\$ 12,234,981

2021 Capital Improvement Projects Funded by General Fund

NW Flood Control Project	\$ 490,500	\$ 195,000
Moore's Creek Drain Extension; 2020-D-1	\$ 95,000	\$ 166,310
N Broadwell Drainage; 2018-D-1	\$ -	\$ 19,838
N 80 Wetland Delineation	\$ 150,000	\$ 10,000
Sidewalk Cost Share Program	\$ 25,000	\$ 25,000
Capital Ave Drainage Improvements; 2020-D-2	\$ 250,000	\$ 310,000
PVIP Drainage Dist No. 2020-1	\$ 200,000	\$ 200,000
Capital Heights Drainage	\$ 300,000	\$ -
Misc. Drainage Improvements	\$ 75,000	\$ -
Highway 30 Drainage (NDOT)	\$ -	\$ 583,198
	\$ 1,585,500	\$ 1,509,347

Summary of Capital Improvement Projects

<i>Project</i>	<i>2021 Budget</i>	<i>2021 Forecast</i>
Funded by Gas Tax	\$ 13,734,000	\$ 12,234,001
Funded by General Fund	\$ 1,585,500	\$ 1,509,347
	\$ 15,319,500	\$ 13,743,348

Proposed Capital Projects for 2021/2022

- Annual Curb Ramp Project No. 2022-CR-1
- Webb Rd Paving Assessments
- Pavement Condition Survey
- Five Points Intersection Improvements
- Old Potash Hwy; North Rd to Webb Rd
- Broadwell/ UPRR Grade Separation
- North Rd; 13th St to Hwy 2
- North Rd; Old Potash Hwy to 13th St
- North Rd; US Hwy 30 to Old Potash Hwy
- US Highway 30 Bridges (NDOT)
- Custer Ave; Old Potash Hwy to Faidley Ave
- Custer Ave; Faidley Ave to 13th St
- Eddy St Underpass Rehabilitation
- Capital Ave; Moores Creek to North Rd
- Hwy 2 Resurfacing (NDOT)
- Bond Payment
- Locust St; Koenig St to Fonner Park Rd
- Claude Rd (ROW)
- NW Flood Control Project
- Moores Creek Drain Extension- Water Tower/Park Culverts
- Moores Creek Detention Cell- Old Potash Hwy & North Rd
- N 80 Wetland Delineation
- Sidewalk Cost Share Program
- PVIP Drainage District No. 2020-1
- Brookline Drainage Improvements
- South St/ Henry St Drainage Improvements

Annual Curb Ramp Project No. 2022-CR-1

\$165,000

Required by the Federal American Disabilities Act (ADA) Regulations –installation program follows the previous year’s asphalt program and other priority corridors. Additional locations are added as funds allow.



Webb Road Paving Assessments (City share)

\$120,000

- ☛ The City portion of the Webb Road paving improvements under District No. 1260 were set at \$803,896.74
- ☛ Installments are set to be paid over the ten (10) year timeframe set by the Board of Equalization – 2022 is payment year seven (7)



Pavement Condition Survey

\$165,000

- Requirement to assess roadway pavement every three (3) years, at a minimum
- Assessment is used to determine roadways that become part of the annual maintenance project, as well as roadways that require more substantial work or rebuild
- Information also used for City's annual audit and for GASB 34



Five Points Intersection Improvements (NDOT)

\$50,000 / \$3,420,000



- Work will begin to acquire public right-of-way and finish design
- Letting scheduled Fall 2022 (subject to change)
- Federal funding cap increased to \$2,640,000

Old Potash Highway; North Road to Webb Rd

\$2,350,000/ \$15,735,000

Widening and reconfiguring Old Potash Highway from North Road to Webb Road, with improvements at intersections, and increased connectivity to roadway network



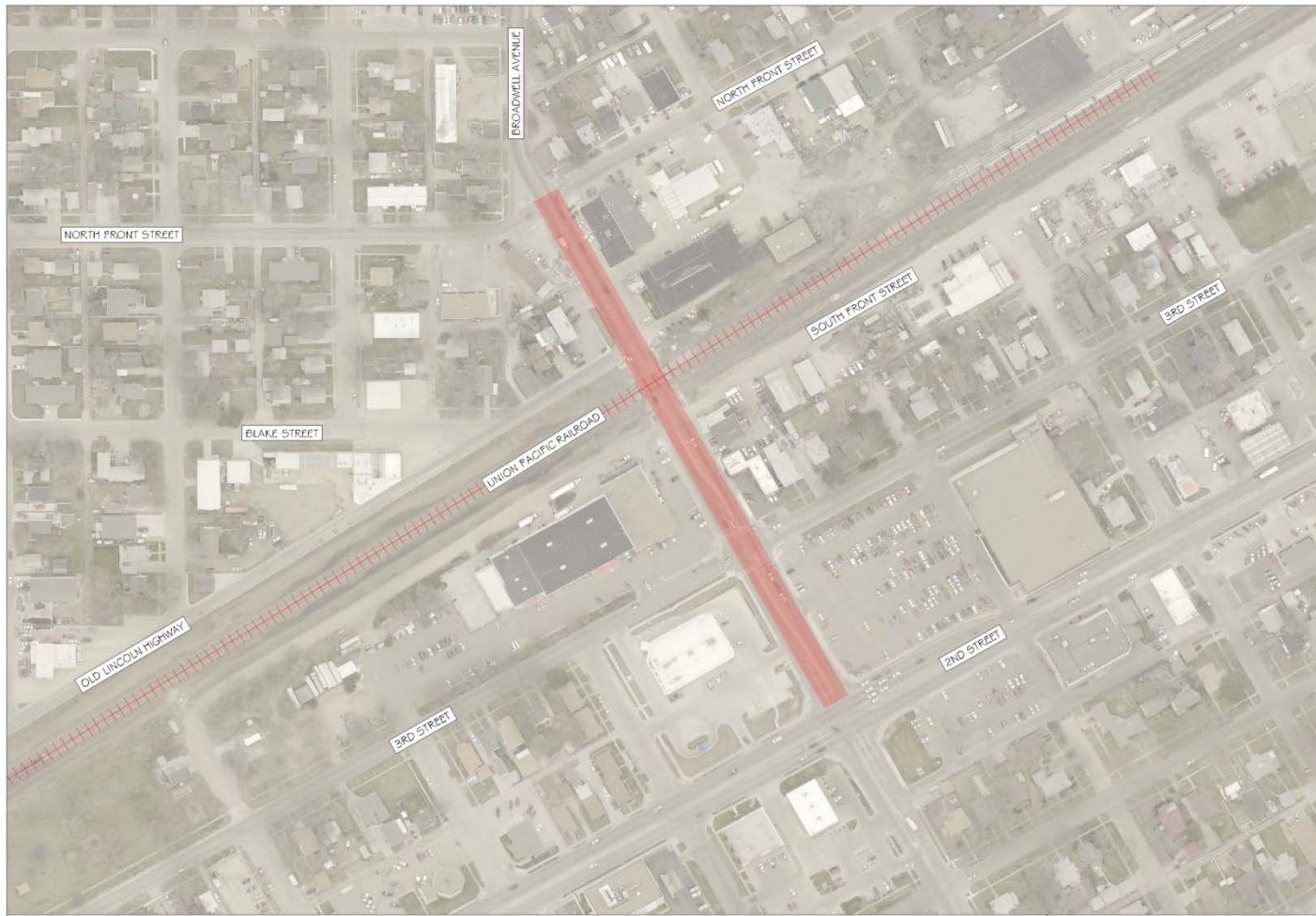


Broadwell/UPRR Grade Separation

\$70,000/ \$28,350,000

- Seeking grant opportunities:
Infrastructure for Rebuilding America (INFRA) and Rebuilding American Infrastructure with Sustainability and Equity (RAISE)
- Mitigate vehicle traffic conflicts with railroad crossing
- Anticipate 10 year process to acquire funds (began FY 2019)





UNION PACIFIC RAILROAD & BRODWELL AVENUE GRADE SEPARATION FEASIBILITY STUDY

2018 - 2019 CAPITAL IMPROVEMENT PROJECTS

North Road; 13th Street to Highway 2

\$2,000,000/ \$8,500,000

- Intersection of Highway 2 and North Rd to the intersection of 13th Street and North Rd
- Concrete curb and gutter with sidewalk, traffic control, and drainage
- Completion 2022



North Road; Old Potash Hwy to 13th Street

\$3,525,000/ \$4,595,296

- 13th Street to Old Potash Highway
- Concrete curb and gutter section with sidewalk, traffic control, and drainage



North Road; US Hwy 30 to Old Potash Hwy

\$25,000/ \$3,014,768

- Improvements from the intersection of Old Potash Highway and North Road to the intersection of Highway 30 and North Road
- Concrete curb and gutter with sidewalk, traffic control, and drainage
- ROW/Easement acquisitions FY 2022



US Highway 30 Bridges (NDOT)

\$230,000 (City share)/ \$5,616,785

- Repairing and milling existing roadway and resurfacing with asphalt
- Replacing approaches, remodeling abutments and wing walls, replacing or constructing median barrier, and sidewalk overlay, and other repairs
- Cost of work within City limits is estimated at \$1,842,000

Custer Avenue Rehabilitation

\$3,005,000/ \$4,200,000

- Full depth removal of the driving lanes
- Project will be constructed in 3 phases
- Phase I- Old Potash Hwy to Faidley Ave
- Phase II- Faidley Ave to 13th St
- Phase III- 13th St to Forrest St





Eddy Street Underpass Rehabilitation

\$1,300,000/ \$1,500,000

- Concrete patching, wall surface treatments, bird netting and other repairs
- Construction 2022 (anticipate lane closures, but not full closure)



Capital Avenue, Moores Creek to North Road

\$2,235,000/ \$2,375,000

- Widening west from the Moores Creek Drainway to North Road to match section to the east
- Concrete curb and gutter section with sidewalk, traffic control, and drainage



Highway 2 Resurfacing (NDOT)

(City share)\$1,200,000 / \$15,668,000

- Reconstructing from Cairo to Grand Island
- Removing and replacing pavement (including shoulders, median, and curb & gutter)with concrete
- Estimated cost within City limits: \$7,918,079; City share: \$1,878,894



Locust St; Koenig St to Fonner Park Rd

\$450,000 / \$6,783,520

- Full depth replacement of roadway
- Geometric/drainage improvements
- Design to start 2022

Claude Rd (ROW)

\$750,000

- Surrounding area is being developed
- ROW is necessary for corridor protection for future expansion of Claude Road north to State Street

Northwest Flood Control Project

\$35,000 / \$7,800,000

 Nearing completion.

Moores Creek Drain Extension- Water Tower/Park Culverts \$200,000/ \$245,000

Installation of drainage
culverts near Water Tower



Moores Creek Detention Cell- Old Potash Hwy & North Rd \$450,000

Detention cell to serve the
Old Potash Highway/North
Road area



N 80 Wetland Delineation

\$200,000 / \$1,700,000

- ❏ City owned wetland bank
- ❏ Detention cell to allow additional storage on the north end of town
- ❏ Improve drainage depths in Moores Creek within the City



Sidewalk Cost Share Program

\$25,000

- Ordinance No. 9764
- Repair displaced, broken, and/or ADA deficient sidewalks in the public ROW
- Construct sidewalk to fill in the network
- 5 applications received in FY21, with \$9,645.79 paid out



PVIP Drainage District No. 2020-1

\$250,000/ \$600,000

- Design and construction of drainage outlet in the Platte Valley Industrial Park area
- City portion of a partnership with Hall County, CPNRD & GIAEDC
- City cost will be recouped by assessment district



Brookline Drainage Improvements

\$350,000

Improve drainage along
Brookline Drive, East of
South Locust Street



South St/ Henry St Drainage Improvements

\$100,000

Improve intersection
drainage to stop
roadway washout



2022 Capital Improvement Projects Funded with Gas Tax Money & Sales Tax

Annual Curb Ramp Project (2022-CR-1)	\$ 165,000
Webb Rd Paving Assessments	\$ 120,000
Pavement Condition Survey	\$ 165,000
Five Points Intersection Improvements	\$ 50,000
Old Potash Hwy; North Rd to Webb Rd	\$ 2,350,000
Broadwell /UPRR Grade Separation	\$ 70,000
North Rd; 13th St to Hwy 2	\$ 2,000,000
North Rd; Old Potash Hwy to 13th St	\$ 3,525,000
North Rd; US Hwy 30 to Old Potash Hwy	\$ 25,000
US Highway 30 Bridges (NDOT)	\$ 230,000
Custer Ave; Old Potash Hwy to Faidley Ave	\$ 1,500,000
Custer Ave; Faidley Ave to 13th St	\$ 1,505,000
Eddy St Underpass Rehabilitation	\$ 1,300,000
Capital Ave; Moores Creek to North Rd	\$ 2,235,000
Hwy 2 Resurfacing (NDOT)	\$ 1,200,000
Bond Payment	\$ 1,708,850
Locust St; Koenig St to Fonner Park Rd	\$ 450,000
Claude Rd (ROW)	\$ 750,000
	\$ 19,248,850

2022 Capital Improvement Projects Funded by General Fund

NW Flood Control Project	\$ 35,000
Moores Creek Drain Extension Water Tower/Park Culverts	\$ 200,000
Moores Creek Detention Cell- Old Potash Hwy & North Rd	\$ 450,000
N 80 Wetland Delineation	\$ 200,000
Sidewalk Cost Share Program	\$ 25,000
PVIP Drainage District No. 2020-1	\$ 250,000
Brookline Drainage Improvements	\$ 350,000
South St/ Henry St Drainage Improvements	\$ 100,000
	\$ 1,610,000

2022 Capital Improvement Budget Summary

Funded by Gas Tax & Sales Tax	\$ 19,348,850
Funded by Sales Tax	\$ 1,610,000
	\$ 20,958,850

- *\$330,000 of capital dollars is mandated*
- *\$120,000 of capital dollars is funding Federal Aid projects*
- *\$1,430,000 of capital dollars is funding State projects*

2022 Funding Sources- 210 Fund

Balance Forward	\$ 10,511,416
State Gas Tax Fund	\$ 5,500,000
NDOT Buy Backs	\$ 986,731
1/2 Cent Sales Tax	\$ 7,429,500
Other Revenue	\$ 2,539,500
Bond	\$ -
Total Available Funding	\$ 26,967,147
210 Fund Capital Projects	\$ 19,348,850
210 Streets Expenses	\$ 4,911,588
210 Streets Non-Capital Projects	\$ 1,685,000
Total Expenses	\$ 25,945,438
Ending Cash Balance in 210 Fund	\$ 1,021,709

2022 Future Project Expenses

Project	2022	2023	2024	2025	2026
Annual Handicap Ramp	\$ 165,000	\$ 168,826	\$ 463,710	\$ 477,621	\$ -
Webb Rd Paving Assessments	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ -
Pavement Condition Survey	\$ 165,000	\$ -	\$ -	\$ -	\$ -
Five Points Intersection Improvements	\$ 50,000	\$ -	\$ -	\$ 179,108	\$ -
Old Potash Hwy; North Rd to Webb Rd	\$ 2,350,000	\$ -	\$ -	\$ -	\$ -
Broadwell /UPRR Grade Separation	\$ 70,000	\$ 563,000	\$ -	\$ -	\$ -
North Rd; 13th St to Hwy 2	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -
North Rd; Old Potash Hwy to 13th St	\$ 3,525,000	\$ 500,000	\$ -	\$ -	\$ -
North Rd; US Hwy 30 to Old Potash Hwy	\$ 25,000	\$ 2,650,000	\$ -	\$ -	\$ -
US Highway 30 Bridges (NDOT)	\$ 230,000	\$ 115,000	\$ -	\$ -	\$ -
Custer Ave; Old Potash Hwy to Faidley Ave	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -
Custer Ave; Faidley Ave to 13th St	\$ 1,505,000	\$ -	\$ -	\$ -	\$ -
Eddy St Underpass Rehabilitation	\$ 1,300,000	\$ -	\$ -	\$ -	\$ -
Capital Ave; Moores Creek to North Rd	\$ 2,235,000	\$ -	\$ -	\$ -	\$ -
Hwy 2 Resurfacing (NDOT)	\$ 1,200,000	\$ -	\$ -	\$ -	\$ -
Bond Payment	\$ 1,708,850	\$ 1,763,150	\$ 1,759,350	\$ 1,758,450	\$ 1,760,250
Locust St; Koenig St to Fonner Park Rd	\$ 450,000	\$ 450,204	\$ 2,898,185	\$ 2,985,131	\$ -
Claude Rd (ROW)	\$ 750,000	\$ -	\$ -	\$ -	\$ -
N 80 Wetland Delineation	\$ 200,000	\$ 1,490,000	\$ -	\$ -	\$ -
	\$ 19,548,850	\$ 7,820,180	\$ 5,241,245	\$ 5,520,310	\$ 1,760,250

Issues from COVID Response

- 🇺🇸 Inflation is running about 8%

- 🇺🇸 Timeline

 - 🇺🇸 Delays in shipping

 - 🇺🇸 Shortage of workers

2012-2020 Public Works CIP Projects

2012

Annual Asphalt Resurfacing Project
Annual Sidewalk Projects
Miscellaneous Safety Enhancements
Moores Creek Drain Extension- Faidley Avenue to Edna Drive; Drainage Project No. 2008-D-2
Storm Water Planning
DrainageDitch Concrete Liner
Highway 30- Grant to Greenwich; Project No. NH 30-4(103)
Contracted Concrete Repair
Aeration Basins Improvements
Sanitary Sewer Rehabilitation
Sanitary Sewer District No. 528; Wildwood Sub
Sanitary Sewer District No. 530T; Highway 281 to I-80

2013

ADA Accessible Sidewalk Curb Ramp Improvements
Annual Asphalt Resurfacing Program
Blaine Street Paving- Wildwood Drive to Schimmer Drive; Street Improvement Project No. 2012-P-2
Stagecoach Detention Cell Improvement; Project No. 2013-D-1
Stuhr Road Concrete Overlay
Contracted Concrete Repair

2014

ADA Accessible Sidewalk Curb Ramp Improvements
Annual Asphalt Resurfacing Project
Downtown Historical Lighting; Project No. ENH-40 (60)
Southwest Outfall Drainage- Central Community College to the Wood River; Project No. 2011-D-1
South Webb Road extending north from Stolley Park Road to Union Pacific Railroad Tracks; Street Improvement District No. 1260
Westgate Road extending from North Road to paved section of Westgate Road; Street Improvement District No. 1261
US Highway 30 Drainage Improvements; Project No. URB-30-4(158)
Federal Aid Resurfacing- Various Location; Project No. URB-5409(2), Control No. 42706
Walk to Walnut Safe Routes to School
Contracted Concrete Repair

2015

Annual Asphalt Resurfacing Project
3rd Street and Wheeler Avenue Intersection Improvements; Project No. 2015-P-2
ADA Accessible Sidewalk Curb Ramp Improvements
Faidley Avenue and Diers Avenue Traffic Signal; Project No. 2014-TS-1
State Street and Capital Avenue Connector Trail
Westgate Drainage Improvements; District No. 2013-D-4
Headworks Improvements
Contracted Concrete Repair

2016

Blaine Street Bridge Replacement
Faidley Avenue Extension- North Road to Irongate Avenue; Street Improvement Project No. 2014-P-1
S Locust Street and State Fair Boulevard Traffic Signal Relocation
Hall County SID #2- Sanitary Sewer Improvements
Contracted Concrete Repair

2017

ADA Accessible Sidewalk Curb Ramp Improvements- Community Development Block Grant (4th Street to 5th Street; Sycamore Street to Eddy Street)
ADA Accessible Sidewalk Curb Ramp Improvements
Annual Asphalt Resurfacing Project
Highway 281 Northbound Improvements
Pavement Condition Survey
Sterling Estates Fourth Subdivision Paving; Street Improvement District No. 1262
Waugh Street Relocation; Street Improvement Project No. 2015-P-5
Contracted Concrete Repair
Concrete Pad at Wastewater Treatment Plant
Sanitary Sewer District No. 538T; Lot 1 of Jack Voss Horse Country Club 3rd Sub, Lot 1 of Miracle Valley 2nd Sub, and Part of W1/2 SW 1/4 of Misc Tracts 2-11-10
Sanitary Sewer District No. 539; North Webb Road and 13th Street

2018

Adams Street Paving; Street Improvement Project No. 2016-P-2
ADA Accessible Sidewalk Curb Ramp Improvements
Annual Asphalt Resurfacing Project
Capital Avenue- Webb Road to Wheeler Avenue; Street Improvement Project No. URB-5436(5), CN 42707
North Broadwell Drainage; Project No. 2017-D-3
Parking Resolution Update
Shady Bend Road Drainage; Project No. 2017-D-2
Transit Needs Study
Contracted Concrete Repair
North Interceptor Phase II
Urgent Collection System Rehabilitation- Various Locations

2019

Annual Asphalt Resurfacing Project
ADA Accessible Sidewalk Curb Ramp Improvements
ADA Accessible Sidewalk Curb Ramp Improvements- Community Development Block Grant (Various Locations)
North Road and 13th Street Roadway Improvements; Project No. 2018-P-1
US Highway 281 Lighting Improvements- Stolley Park Road to US Highway 30 Overpass
William Street Paving Improvements; Project No. 2018-P
Contracted Concrete Repair
Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1
WAS Tank Blower
West Stolley Park Road and Engleman Road Sanitary Sewer Extension; Project No. 2017-S-3 and Sanitary Sewer District No. 540T

2020

ADA Accessible Sidewalk Curb Ramp Improvements
Annual Asphalt Resurfacing Project
Pavement Condition Survey
Sidewalk District No. 1- 2019
HSIP-5402(5), Stolley Park Road Reconfiguration; Project No. CN 42812
Storm Sewer Mapping
Sugar Beet Harrison Trail Drainage Project No. 2019-D-1
Traffic Signal Timing Optimization; US Highway 281 & Webb Road Corridors
Traffic Studies- Various Locations
Contracted Concrete Repair
Cell 3 Liner Construction at the Grand Island Regional Landfill
Downtown Sanitary Sewer Rehabilitation- 2019; Project No. 2019-S-1
Furnishing Components for "EIMCO® Type C3D-Full Trough Skimmer Clarifier Mechanism"; Project No. 2019-WWTP-5
Lift Station 11 Upgrade and Repair

2021-2022 Public Works CIP Projects

2021 Projected Completion

ADA Accessible Sidewalk Curb Ramp Improvements
Annual Asphalt Resurfacing Project
Capital Avenue Driange Improvements- North Road to Mooers Creek :Project No. 2020-D-2
Kaufman Detention Cell Outlet
Moores Creek Extension: Project No. 2017-D-1
North Broadwell Ditch Drainage; Project No. 20189-D-1
Sidewalk Cost Share Program
South Front Street over Sycamore Underpass Rehabilitation; Project No. 2017-U-1
Contracted Concrete Repair
Downtown Sanitary Sewer Manhole Rehabilitaiton; Project No. 2020-S-7
Final Clarifier Rehabilitation
Sanitary Sewer Collection System Breaks
Sanitary Sewer District No. 544; Ellington Pointe and a portion of Westwood Park Subdivision
Wastewater Treatment Plant Paving Improvements; Project No. 2020-WWTP-1

2022 Proposed Completion

Annual Asphalt Resurfacing Project
ADA Accessible Sidewalk Curb Ramp Improvements
Pavement Condition Survey
Old Potash Highway- Norht Road to Webb Road; Street Improvement Project No. 2019-P-1
North Road- 13th Street to Highway 2; Street Improvement Project No. 2019-P-5
North Road- Old Potash Highway to 13th Street; Street Improvement Project No. 2019-P-6
US Highway 30 Bridges
Custer Avenue- Old Potash Highway to Faidley Avenue; Street Improvement Project No. 2019-P-13
Eddy Street Underpass Rehabilitation
Capital Avenue- Moores Creek to North Road; Street Improvement Project No. 2020-P-1
Highway 2 Resurfacing
Contracted Concrete Repair
Northwest Flood Control Project
Moores Creek Drainage Extension- Water Tower / Park Culverts
Moores Creek Detention Cell- Old Potash Highway & North Road
Sidewalk Cost Share Program
PVIP Drainage District NO. 2020-1
Brookline Drainage Improvements
South Street/ Henry Street Driange Improvements