



City of Grand Island

Tuesday, July 19, 2022

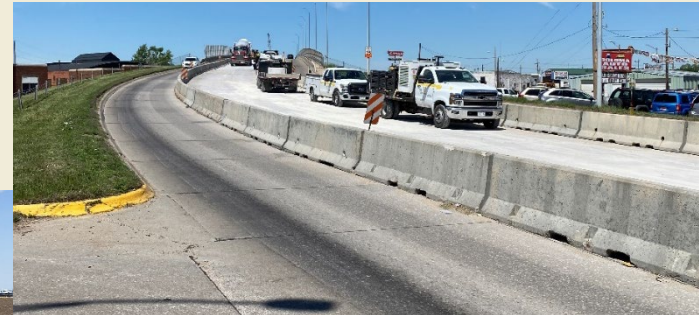
Study Session

Item -5

One & Six Year Street Improvement Plan

Staff Contact: Keith Kurz PE, Interim Public Works Director

Capital Projects 2022/2023



Keith Kurz, PE
Interim City Engineer/Public Works Director

2022 Projects

- Annual Curb Ramp Project No. 2022-CR-1
- Webb Rd Paving Assessments
- Pavement Condition Assessment
- Five Points Intersection Improvements
- Old Potash Hwy; North Rd to Webb Rd
- Highway 30 Realignment
- Broadwell/UPRR Grade Separation
- 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
- Custer Ave Rehabilitation
- Eddy St Underpass Rehabilitation
- Capital Ave; Moores Creek to North Rd
- Hwy 2: Cairo to Grand Island
- Locust St; 2nd St to Fonner Park Rd
- Claude Rd Extension
- GI North; Hwy 281 (NDOT)
- Bond Payment
- NW Flood Control Project
- Moores Creek Drain Ext- Water Tower Culverts
- Moores Creek Detention Cell- OPH/North
- N 80 Wetland Delineation
- Sidewalk Cost Share Program
- PVIP Drainage Dist No. 2020-1
- JBS Trail Culvert
- Brookline Drainage/Henry St Drainage

2022 Capital Improvement Projects

Funded by Gas Tax

<i>Project</i>	<i>2022 Budget</i>	<i>2022 Forecast</i>
Annual Curb Ramp Project (2021-CR-1)	\$ 165,000	\$ 150,000
Webb Rd Paving Assessments	\$ 120,000	\$ 80,500
Pavement Condition	\$ 165,000	\$ 145,000
Five Pts Intersection Improvements	\$ 50,000	\$ 45,000
Old Potash Hwy; North Rd to Webb Rd	\$ 2,350,000	\$ 2,800,000
US 30 Realignment	\$ -	\$ 1,000
Broadwell /UPRR Grade Separation	\$ 70,000	\$ 47,000
North Rd; 13th St to Hwy 2	\$ 2,000,000	\$ 1,721,000
North Rd; Old Potash Hwy to 13th St	\$ 3,525,000	\$ 3,012,000
US Hwy 30 Bridges	\$ 230,000	\$ 215,000
North Rd; Old Potash to Hwy 30	\$ 25,000	\$ 1,400
Custer Ave Rehabilitation	\$ 3,005,000	\$ 2,580,000
Eddy St Underpass Rehabilitation	\$ 1,300,000	\$ 1,265,000
Capital Ave; Moores Creek to North Rd	\$ 2,235,000	\$ 1,733,308
Hwy 2; Cairo to Grand Island	\$ 1,100,000	\$ 1,800,000
Locust St; 2nd St to Fonner Park Rd	\$ 450,000	\$ 311,000
Claude Rd ROW	\$ 750,000	\$ 750,000
GI North- 281	\$ -	\$ 124,000
Bond Payment	\$ 1,708,850	\$ 1,710,000
Unassigned	\$ 100,000	\$ -
	\$ 19,348,850	\$ 18,491,208




















2022 Capital Improvement Projects Funded by General Fund

<i>Project</i>	<i>2022 Budget</i>	<i>2022 Forecast</i>
NW Flood Control Project	\$ 35,000	\$ 35,000
Moore's Creek Drain Ext- Water Tower Culverts	\$ 325,000	\$ 378,300
Moore's Creek Detention Cell- OPH/North Rd	\$ 325,000	\$ 254,000
N 80 Wetland Delineation	\$ 200,000	\$ 6,700
Moore's Creek Drainway	\$ -	\$ 150
Sidewalk Cost Share Program	\$ 25,000	\$ 25,000
PVIP Drainage Dist No. 2020-1	\$ 250,000	\$ 35,000
JBS Trail Culvert	\$ -	\$ 232,700
Brookline/Henry St Drainage	\$ 450,000	\$ 415,400
	\$ 1,610,000	\$ 1,382,250

Summary of Capital Improvement Projects

<i>Project</i>	<i>2022 Budget</i>	<i>2022 Forecast</i>
Funded by Gas Tax	\$ 19,348,850	\$ 18,491,208
Funded by General Fund	\$ 1,610,000	\$ 1,382,250
	\$ 20,958,850	\$ 19,873,458

Proposed Capital Projects for 2022/2023

-  Annual Curb Ramp Project No. 2023-CR-1
-  Webb Rd Paving Assessments
-  Five Points Intersection Improvements
-  Broadwell/ UPRR Grade Separation
-  North Rd; Old Potash Hwy to 13th St
-  North Rd; US Hwy 30 to Old Potash Hwy
-  Custer Ave; Old Potash Hwy to Forrest St
-  Eddy St Underpass Rehabilitation
-  Locust St; 2nd St to Fonner Park Rd
-  Veterans Legacy
-  Claude Road Extension
-  Bond Payment
-  Northwest Flood Control
-  N 80 Wetland Delineation
-  Sidewalk Cost Share Program
-  PVIP Drainage District No. 2020-1
-  Citywide Drainage
-  Street/Fleet New Facility
-  Brookline/Henry Drainage Improvements

Annual Curb Ramp Project No. 2023-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.



Five Points Intersection Improvements

\$586,900 / \$3,420,000



- Public right-of-way has been acquired
- Finishing design
- Letting scheduled Fall 2022/Construction Spring 2023 (subject to change)

Broadwell/UPRR Grade Separation

\$100,000/ \$28,350,000



- 🌊 Address solutions to vehicle traffic conflicts with railroad crossing
- 🌊 Anticipate 10 year process to acquire funds (began FY 2019)
- 🌊 Finish PEL- Planning and Environmental Linkages Study Fall 2022
- 🌊 Seeking funding through NDOT
 - 🌊 Aiming to get a Program Agreement to begin Environmental & Engineering in FY 23 (80/20 match)
- 🌊 Possible grants available- Infrastructure for Rebuilding America (INFRA) and Rebuilding American Infrastructure with Sustainability and Equity (RAISE)



UNION PACIFIC RAILROAD & BRODWELL AVENUE GRADE SEPARATION FEASIBILITY STUDY

2018 - 2019 CAPITAL IMPROVEMENT PROJECTS

North Road; Old Potash Hwy to 13th Street

\$500,000/ \$4,595,296

- Improvements from the intersection of 13th Street and North Road to the intersection of Old Potash Highway and North Road
- Concrete curb and gutter section with sidewalk, traffic control, drainage and other associated improvements
- Open to traffic Fall 2022/ Final Completion Spring 2023



North Road; US Hwy 30 to Old Potash Hwy

\$2,650,000/ \$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 section with sidewalk, traffic control, drainage and other associated improvements
- Last section of North Road; Highway 2 to US Highway 30



Custer Avenue; Old Potash Hwy to Forrest St

\$1,700,000/ \$4,280,000

- 🌊 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 (design started)
 - 🌊 Construction 2023



Eddy Street Underpass Rehabilitation

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

- Preventative concrete patching, wall surface treatments, bird spikes and other items will be addressed
- Construction 2022 into 2023
 - Final work and restoration FY2023



Locust St; 2nd St to Fonner Park Rd

\$450,000 / \$10,761,000

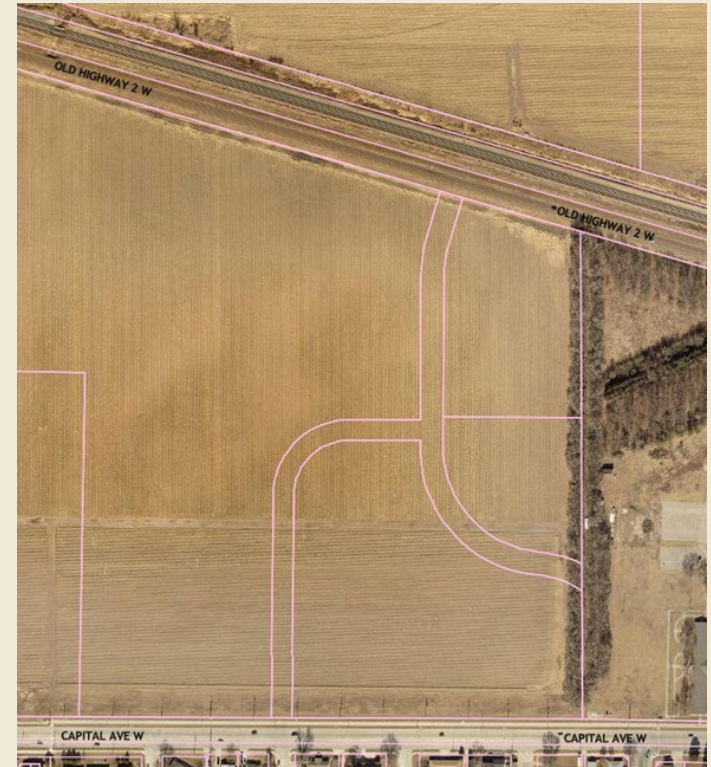
- 🌊 Full depth replacement of roadway with concrete curb and gutter
- 🌊 Remedy alignment issues at intersections along corridor
- 🌊 Drainage improvements
- 🌊 Final Engineering/ROW FY 2023
- 🌊 Construction FY 2024/2025



Veterans Legacy







\$150,000/ \$1,350,000

- 🌐 Paving and drainage development north of Capital Avenue, East of Webb Road
- 🌐 Design work to take place FY2023
- 🌐 Dependent upon funding from other sources
- 🌐 Construction TBD



Claude Road Extension

\$2,400,000/ \$2,400,000

-  North of Faidley Avenue to State Street
 -  Control access points
 -  Improve traffic performance and safety
-  Relieve congestion along Diers Avenue
-  Finish design
-  Construction of roadway between Diers Avenue and Claude Road (south of State St) FY 2023

Northwest Flood Control

\$20,000/ \$7,800,000

-  Completion anticipated December 2022
-  Yearly maintenance costs upon project completion

N 80 Wetland Delineation

\$210,000/ \$2,000,000

- City owned wetland bank
- Anticipated this will double as a detention cell to allow additional water storage on the north end of town
- Improve drainage depths in Moores Creek within the City
- Continue Engineering/Permitting
- Currently in USACE public notice period



Sidewalk Cost Share Program

\$25,000

- Per Ordinance No. 9764
- Repair displaced, broken, and/or ADA deficient sidewalks in the public ROW
- Construct segments of sidewalk to fill in the network along streets within City limits
- 7 applications received in FY22, with \$12,375.66 paid out (including engineering services)



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



Citywide Drainage

\$250,000

- Use data collected over past years to improve drainage in various areas of the City
- Develop hydraulic computer models to analyze performance of storm sewers
- Identify weaknesses or improvements that will increase storm sewer capacity and plan future work
- Pilot model area that could lead to overall City model
- Small projects may be built if budget allows

Street/Fleet Facility Study

\$150,000

- Investigate current facility use and study feasibility of new facility
- Current facility owned by UPRR
 - Lease expires October 2023, with yearly renewal thereafter



Brookline Drive Drainage Improvements

South Street/Henry Street Drainage Improvements

\$50,000 / \$465,400

- 🌊 Brookline Drive- improve drainage along Brookline Drive, east of South Locust St
- 🌊 South Street/Henry Street- Improve intersection drainage to stop roadway washout
- 🌊 Completion of project from FY 2022



2023 Capital Improvement Projects Funded with Gas Tax Money

Annual Curb Ramp Project (2023-CR-1)	\$ 165,000
Webb Rd Paving Assessments	\$ 80,500
Five Points Intersection Improvements	\$ 586,900
Broadwell /UPRR Grade Separation	\$ 100,000
North Rd; Old Potash Hwy to 13th St	\$ 500,000
North Rd; US Hwy 30 to Old Potash Hwy	\$ 2,650,000
Custer Ave; Old Potash Hwy to Forrest St	\$ 1,700,000
Eddy St Underpass Rehab	\$ 300,000
Locust St; 2nd St to Fonner Park Rd	\$ 450,000
Veterans Legacy (contingent on other funding)	\$ 150,000
Claude Road Extension	\$ 2,400,000
Bond Payment	\$ 1,708,850
	\$ 10,791,250

2023 Capital Improvement Projects Funded by General Fund

NW Flood Control Project	\$	20,000
N Moores Creek 80 Wetland Delineation	\$	210,000
Sidewalk Cost Share Program	\$	25,000
PVIP Drainage District No. 2020-1	\$	250,000
Citywide Drainage	\$	250,000
Street/Fleet Facility Study	\$	150,000
Brookline/Henry St Drainage	\$	50,000
	\$	955,000

2023 Capital Improvement Budget Summary

<i>Project</i>	<i>2023 Budget</i>
Funded by Gas Tax & Sales Tax	\$ 10,791,250
Funded by Sales Tax	\$ 955,000
	\$ 11,746,250

- *\$165,000 of capital dollars is mandated (ADA Curb Ramps)*
- *\$100,000 of capital dollars is funding Federal Aid projects*
- *\$586,900 of capital dollars is funding NDOT Safety projects*

2023 Funding Sources- 210 Fund

Projected 2022 Ending Cash Balance	\$ 3,771,411
State Gas Tax Fund	\$ 6,630,227
NDOT Buy Backs	\$ 1,040,000
1/2 Cent Sales Tax	\$ 6,825,550
Other Funding Sources (Veterans Legacy)	\$ 150,000
Other Revenue	\$ 2,622,244
Bond	\$ -
Total Available Funding	\$ 21,039,432
210 Fund Capital Projects	\$ 11,416,250
210 Streets Expenses	\$ 5,727,767
210 Streets Non-Capital Projects	\$ 1,819,800
Total Expenses	\$ 18,963,817
Ending Cash Balance in 210 Fund	\$ 2,075,615

2023 Future Project Expenses

<i>Project</i>	<i>2023</i>	<i>2024</i>	<i>2025</i>	<i>2026</i>	<i>2027</i>	<i>2028</i>
Annual Handicap Ramp	\$ 165,000	\$ 169,950	\$ 175,000	\$ 180,000	\$ 185,700	\$ 191,400
Webb Rd Paving Assessments	\$ 80,500	\$ 80,500	\$ 80,500	\$ -	\$ -	\$ -
Five Points Intersection Improvements	\$ 586,900	\$ -	\$ -	\$ -	\$ -	\$ -
Hwy 30 Realignment	\$ -	\$ -	\$ 892,566	\$ -	\$ -	\$ -
Broadwell /UPRR Grade Separation	\$ 100,000	\$ 720,000	\$ 420,000	\$ 933,000	\$ 467,000	\$ 18,720,000
North Rd; Old Potash Hwy to 13th St	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -
North Rd; Old Potash Hwy to Hwy 30	\$ 2,650,000	\$ -	\$ -	\$ -	\$ -	\$ -
Custer Ave; Old Potash Hwy to Forrest St	\$ 1,700,000	\$ -	\$ -	\$ -	\$ -	\$ -
Eddy St Underpass Rehab	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -
Locust St; 2nd St to Fonner Park R	\$ 450,000	\$ 5,000,000	\$ 5,000,000	\$ -	\$ -	\$ -
Veterans Legacy (contingent on other funding)	\$ 150,000	\$ 1,200,000	\$ -	\$ -	\$ -	\$ -
Claude Rd; State St/Diers Ave to Claude Rd	\$ 2,400,000	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Payment	\$ 1,708,850	\$ 1,763,150	\$ 1,759,350	\$ 1,758,450	\$ 1,760,250	\$ 1,762,450
NW Flood Control Project	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -
N Moores Creek 80 Wetland Detention	\$ 210,000	\$ 1,400,000	\$ 350,000	\$ -	\$ -	\$ -
Sidewalk Cost Share Program	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
PVIP Drainage District No. 2020-1	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -
Citywide Drainage	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Street/Fleet Facility Study	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -
Brookline/Henry Drainage Improvements	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ 11,746,250	\$ 10,608,600	\$ 8,952,416	\$ 3,146,450	\$ 2,687,950	\$ 20,948,850