



City of Grand Island

Tuesday, July 28, 2020

Council Session

Item E-6

Public Hearing on Presentation of One and Six Year Street Improvement Plan and Capital Improvement Projects

Council action will take place under Resolutions item I-4.

Staff Contact: Patrick Brown

Capital Projects 2020/2021



John Collins, PE
City Engineer/Public Works Director



2020 Projects

- Sidewalk District No. 1- 2019
- Hwy 281 NB (NDOT)
- Storm Sewer Mapping
- Capital Ave; Moores Creek to North Rd
- Eddy St Underpass Rehabilitation
- Custer Avenue Rehabilitation
- Stolley Park Rd Restriping/ Rehabilitation
- Annual Curb Ramp Installation
- Webb Road Paving Assessments
- S Front St over Sycamore Underpass Rehab
- Pavement Condition Survey
- Five Points Intersection Improvements
- Old Potash Hwy; Webb Rd to North Rd
- Broadwell Ave/ UPRR Grade Separation
- Hwy 281 Signal Timing
- North Rd; Hwy 2 to 13th St
- North Rd; 13th St to Old Potash Hwy
- North Rd; Old Potash Hwy to Hwy 30
- Brookline Paving
- Sugar Beet Ditch Drainage
- N 80 Wetland Delineation
- Kaufman Detention Cell Outlet
- N Broadwell Ave Drainage
- Northwest Flood Control Project
- Sidewalk Cost Share Program
- Moores Creek Drain Extension

2020 Capital Improvement Projects Funded by Sales Tax

<i>Project</i>	<i>2020 Budget</i>	<i>2020 Forecast</i>
North Rd; Hwy 2 to 13th St	\$ 3,668,000	\$ 2,900,000
Old Potash Hwy; Webb Rd to North Rd	\$ 1,426,732	\$ 2,400,000
Storm Sewer Mapping	\$ 500,000	\$ 308,898
Sidewalk District No. 1- 2019	\$ -	\$ 26,723
Sugar Beet Ditch Drainage	\$ 58,359	\$ 77,990
N 80 Wetland Delineation	\$ 200,000	\$ 96,320
Kaufman Detention Cell Outlet	\$ 600,000	\$ 675,000
N Broadwell Avenue Drainage	\$ 221,447	\$ 221,447
Northwest Flood Control Project	\$ 393,401	\$ 393,401
Sidewalk Cost Share Program	\$ -	\$ 25,000
Moore's Creek Drain Extension	\$ 301,398	\$ 150,000
	\$ 7,369,337	\$ 7,274,779

2020 Capital Improvement Projects Funded by Gas Tax Money

<i>Project</i>	<i>2020 Budget</i>	<i>2020 Forecast</i>
Hwy 281 NB (NDOT)	\$ -	\$ 135,000
Capital Ave; Moores Creek to North Rd	\$ 95,000	\$ 100,000
Eddy St Underpass Rehabilitation	\$ 600,000	\$ 75,000
Custer Avenue Rehabilitation	\$ 75,000	\$ 130,000
Stolley Park Rd Restriping/ Rehabilitation	\$ -	\$ 1,434
Annual Curb Ramp Installation	\$ 500,000	\$ 150,000
Webb Road Paving Assessments	\$ 120,000	\$ 120,000
S Front St over Sycamore Underpass Rehabilitation	\$ 1,018,644	\$ 1,018,644
Pavement Condition Survey	\$ -	\$ 80,762
Five Points Intersection Improvements	\$ 339,000	\$ 339,000
Broadwell Ave/ UPRR Grade Separation	\$ 415,000	\$ 200,000
Hwy 281 Signal Timing	\$ -	\$ 18,900
North Rd; 13th St to Old Potash Hwy	\$ 200,000	\$ 230,300
North Rd; Old Potash Hwy to Hwy 30	\$ -	\$ 187,000
Brookline Paving	\$ 175,000	\$ -
Unassigned Resurfacing	\$ 1,000,000	\$ -
	\$ 4,537,644	\$ 2,786,040

Summary of Capital Improvement Projects

<i>Project</i>	<i>2020 Budget</i>	<i>2020 Forecast</i>
Funded by Sales Tax	\$ 7,369,337	\$ 7,274,779
Funded by Gas Tax	\$ 4,537,644	\$ 2,786,040
	\$ 11,906,981	\$ 10,060,819

Proposed Capital Projects for 2020/2021

- Capital Ave; Moores Creek to North Rd
- Eddy St Underpass Rehabilitation
- Custer Ave Rehabilitation
- Annual Curb Ramp Installation
- Webb Road Paving Assessments
- Old Potash Hwy; North Rd to Webb Rd
- Broadwell Ave/ UPRR Grade Separation
- North Rd; Hwy 2 to 13th St
- North Rd; 13th St to Old Potash Hwy
- North Rd; Old Potash Hwy to Hwy 30
- N 80 Wetland Delineation
- Northwest Flood Control Project
- Sidewalk Cost Share Program
- Moores Creek Drain Extension
- Capital Avenue Drainage
- Platte Valley Industrial Park Outlet
- Capital Heights Drainage
- Misc Drainage Improvements- Various Locations

Capital Avenue, Moores Creek to North Road

\$1,090,000/ \$2,375,000

- Improvements from the Moores Creek Drainway at Capital Avenue to the intersection of North Road and Capital Avenue - continuation to the west of the Capital Avenue widening
- Concrete curb and gutter section with associated sidewalk, traffic control, drainage and other associated improvements



Eddy Street Underpass Rehabilitation

\$900,000/ \$1,057,000

- Preventative concrete patching, wall surface treatments, bird netting and other items will be addressed
- Construction 2021 (anticipate lane closures, but not full closure)



Custer Avenue Rehabilitation

\$900,000/ \$3,695,700

- Full depth removal of the driving lanes from Forrest Street to Old Potash Highway
- 1st stage of a 3 stage project will begin 2021





Annual Curb Ramp Installation

\$155,000

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 Assessment (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 – 2021 is payment year six (6)



Old Potash Highway, North Road to Webb Rd

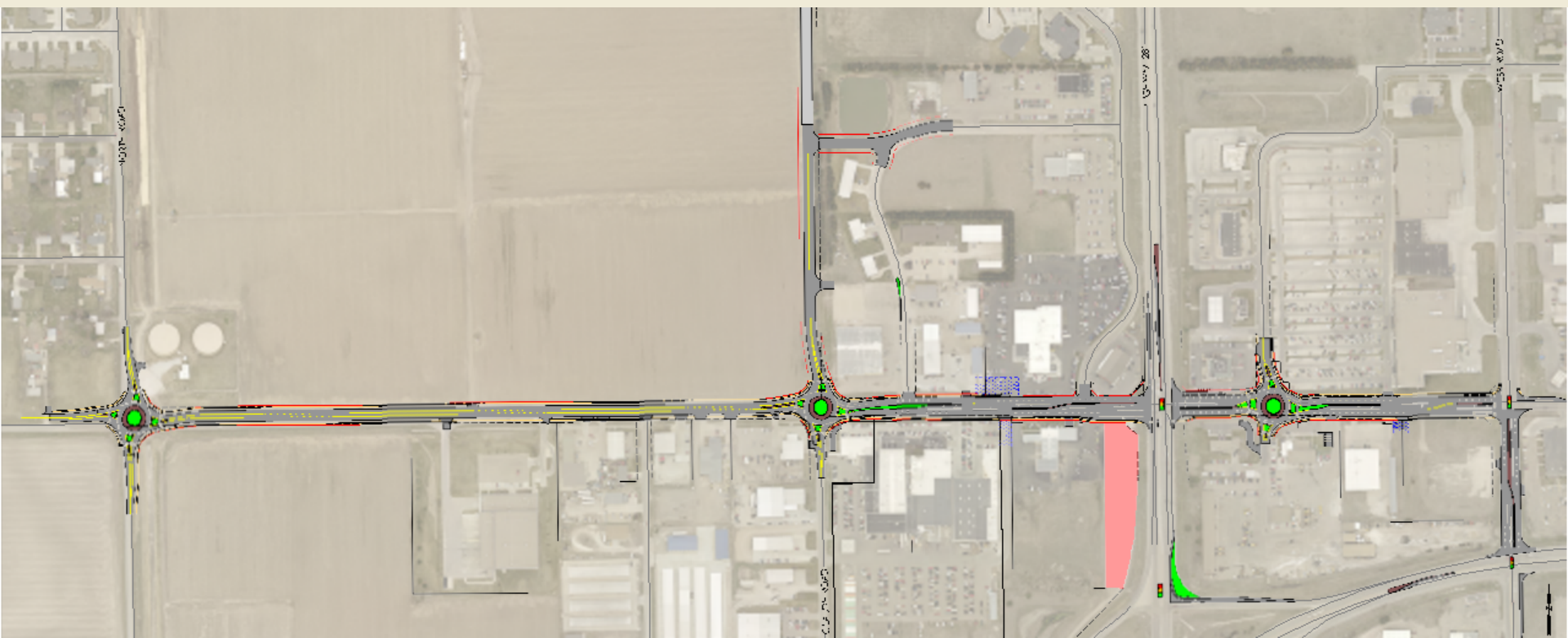
\$7,875,000/ \$15,735,000

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



Old Potash Highway Overall Concept

- As part of the Old Potash Highway project, overall engineering concept/investigation is being done for potential US Highway 281 offset turn lanes (will require NDOT coordination)
- Potential Claude Road extension north to State Street and Diers Avenue intersection
- Possible changes at State St/ Diers Ave, 13th St/ Diers Ave, and Faidley Ave and Diers Ave



Broadwell/UPRR Grade Separation

\$124,000/ \$18,350,000

- FY 2021 Preliminary Environmental Linkage study
- Address solutions to 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, Highway 2 to 13th Street

\$2,540,000/ \$11,648,080

- Improvements from the intersection of Highway 2 and North Road to the intersection of 13th Street and North Road
 - Hwy 2 to Capital Avenue Construction 2020
 - Capital Avenue to 13th Street Design 2020
- Concrete curb and gutter roadway section with sidewalk, traffic control, drainage and other associated improvements



North Road, 13th Street to Old Potash Highway to \$15,000/ \$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
- ROW/Easement acquisitions FY 2021



North Road; Old Potash Highway to Highway 30

\$15,000/ \$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
- ROW/Easement acquisitions FY 2021



North Moores Creek 80 Wetland Detention Design

\$150,000/ \$1,700,000

- 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



Northwest Flood Control Project

\$490,500

- Nearing completion, with updated flood map approval by end of September

Moores Creek Drain Extension

\$95,000/ \$245,000

- Construction to Copper Creek for drainage outlet



Capital Avenue Drainage

\$250,000

- 🏡 Ditch grading to improve drainage in the area of Capital Avenue from Carleton Drive to North Road



Platte Valley Industrial Park Outlet

\$200,000/ \$600,000

- Design and construction of drainage outlet in the Platte Valley Industrial Park area
- City partnership with Hall County, Central Platte Natural Resources District and Grand Island Area Economic Development Corporation
- City cost will be recouped by assessment district



Capital Heights Drainage District

\$300,000

- Petition from property owners north of Capital Avenue, east of Independence Avenue regarding drainage concerns
- Installation of drainage pipes to allow individual homes to pump
- Assessment District



Misc Drainage Improvements- Various Locations

\$75,000

- Small isolated culvert improvements in various locations of the City



2021 Capital Improvement Projects Funded with Gas Tax Money

Capital Ave; Moores Creek to North Rd	\$ 1,090,000
Eddy St Underpass Rehabilitation	\$ 900,000
Custer Ave Rehabilitation	\$ 900,000
Annual Curb Ramp Installation	\$ 155,000
Webb Road Paving Assessments	\$ 120,000
Old Potash Hwy; North Rd to Webb Rd	\$ 7,875,000
Broadwell Ave/ UPRR Grade Separation	\$ 124,000
North Rd; Hwy 2 to 13th St	\$ 2,540,000
North Rd; 13th St to Old Potash Hwy	\$ 15,000
North Rd; Old Potash Hwy to Hwy 30	\$ 15,000
	\$ 13,734,000

2021 Capital Improvement Projects Funded by Sales Tax

N 80 Wetland Delineation	\$	150,000
Northwest Flood Control Project	\$	490,500
Sidewalk Cost Share Program	\$	25,000
Moore's Creek Drain Extension	\$	95,000
Capital Avenue Drainage	\$	250,000
Platte Valley Industrial Park Outlet	\$	200,000
Capital Heights Drainage	\$	300,000
Misc Drainage Improvements- Various Locations	\$	75,000
	\$	1,585,500

2021 Capital Improvement Budget Summary

<i>Project</i>	<i>2021 Budget</i>
Funded by Gas Tax	\$ 13,734,000
Funded by Sales Tax	\$ 1,585,500
	\$ 15,319,500

- *\$180,000 of capital dollars is mandated*
- *\$124,000 of capital dollars is funding Federal Aid projects*

2021 Funding Sources- 210 Fund

Balance Forward	\$ 3,605,404
State Gas Tax Fund	\$ 5,500,000
NDOT Buy Backs	\$ 1,000,000
1/2 Cent Sales Tax	\$ 5,000,000
Other Revenue	\$ 2,749,672
Bond	\$ 4,500,000
Total Available Funding	\$ 22,355,076
210 Fund Capital Projects	\$ 13,734,000
210 Streets Expenses	\$ 5,323,610
210 Streets Non-Capital Projects	\$ 1,720,000
Total Expenses	\$ 20,777,610
Ending Cash Balance in 210 Fund	\$ 1,577,466

2021 Future Project Expenses

<i>Project</i>	<i>2021</i>	<i>2022</i>	<i>2023</i>	<i>2024</i>	<i>2025</i>
Capital Ave; Moores Creek to North Rd	\$ 1,090,000	\$ 150,000	\$ 2,100,000		
Eddy St Underpass Rehabilitation	\$ 900,000				
Custer Ave Rehabilitation	\$ 900,000				
Annual Curb Ramp Installation	\$ 155,000	\$ 164,000	\$ 169,000	\$ 464,000	\$ 478,000
Webb Road Paving Assessments	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000
Old Potash Hwy; North Rd to Webb Rd	\$ 7,875,000	\$ 4,775,000			
Broadwell Ave/ UPRR Grade Separation	\$ 124,000	\$ 550,000	\$ 563,000		
North Rd; Hwy 2 to 13th St	\$ 2,540,000	\$ 2,854,000			
North Rd; 13th St to Old Potash Hwy	\$ 15,000	\$ 3,538,000	\$ 1,800,000		
North Rd; Old Potash Hwy to Hwy 30	\$ 15,000	\$ 150,000	\$ 2,650,000		
N 80 Westland Delineation	\$ 150,000				
Northwest Flood Control Project	\$ 490,500				
Sidewalk Cost Share Program	\$ 25,000				
Moores Creek Drain Extension	\$ 95,000				
Capital Avenue Drainage	\$ 250,000				
Platte Valley Industrial Park Outlet	\$ 200,000				
Capital Heights Drainage	\$ 300,000				
Misc Drainage Improvements- Various Locations	\$ 75,000				
Five Points Intersection Improvements		\$ 550,000			
US Highway 30 Bridges		\$ 230,000			
US Highway 34/ 281 Overlay			\$ 900,000		
US Highway 30 Realignment				\$ 1,600,000	
	\$ 15,310,500	\$ 13,081,000	\$ 8,302,000	\$ 2,184,000	\$ 508,000