

April 11, 2023

## **WSF 2023 Annual Report #5253**

### **DMR Section 205 Flood Reduction Project**

#### **Project Progress 205 Flood reduction Project**

This is the fourth annual report. This report covers all activity from April 2022-April 2023. The LPSNRD/City of Lincoln continues to work with UNL engineering department on the flume upstream of the Burlington Northern Railroad, The UNL engineering department is running the model to determine the scour risk and determine the rip-rap sizing. The intent of this exercise to reduce overall federal project costs by changing the size and amount of riprap thus saving up to \$1 million dollars for the project. Once the final design of the flume is incorporated into the COE 205 project, the local sponsor will enter into an agreement with the BNSF railroad which will help them verify that the design of the flume conforms with all Railroad requirements.

The COE continues the design of the channel from 48<sup>th</sup> Street to Cornhusker Hwy. The COE's 65% Design was received in early March and the sponsor continues work with the COE to get to 95% design plans. R.O.W. drawing sheets will be developed by the COE in the upcoming months.

#### **Local Sponsor Progress**

Local sponsor portion of the project is the 33<sup>rd</sup>, 38<sup>th</sup>, 48<sup>th</sup> street bridges and the detention basin. The COE's design requires that all three of these bridges need to be replaced to accommodate the calculated flows of the project. Below is a summary that explains the status of each of these projects.

#### **33<sup>rd</sup> Street Bridge**

The design of this bridge is on hold and pending further discussion/decisions with the City and project partners regarding the timeline and replacement of the bridge. This bridge is part of the large 33<sup>rd</sup> and Cornhusker project that is being led by the city of Lincoln's Railroad Transportation Safety District.

### **38<sup>th</sup> Street Bridge**

The LPSNRD and UNL have an interlocal that allows UNL to hire a firm to design the 38<sup>th</sup> St. bridge which is located on DMR on UNL's East Campus. UNL is under contract with WSP at a cost of \$389,500 to design the bridge. The current schedule shows this bridge to be let in the Spring of 2024 for construction.

### **48<sup>th</sup> Street Bridge**

The city is the lead on this project, and they have hired WSP to design the bridge. The design is about 25% complete. Estimated construction of the bridge is around \$2.33 million dollars and anticipated to complete in Spring of 2024. A public open house on the bridge plans was held in early April 2023.

### **Detention Basin**

FYRA/Houston engineering was hired to determine if the detention basin provided any benefit to the flows into DMR. After the final hydrologic and hydraulic modeling was completed, it was determined that the proposed detention basin was no longer required to mitigate increased flows at the mouth of the basin into DMR. The project has been reconfigured without the detention basin to achieve the previously identified project goals and associated benefits.

### **2023-2024 WSF Budget**

Design of 48 <sup>th</sup> St Bridge	=	\$ 902,000.00
Construction of 48 <sup>th</sup> St Bridge	=	\$ 2,500,000.00
Design of 38 <sup>th</sup> St Bridge (UNL)	=	\$ <u>400,000.00</u>
<b>Total</b>		<b>\$ 3,802,000.00</b>

WSF portion of local dollars for next year is \$3,802,000.00 x 60% = **\$2,281,200.00**

**Submitted by Mike Murren**

**4/11/23**