




## LOWER PLATTE SOUTH natural resources district

3125 Portia Street | P.O. Box 83581 • Lincoln, Nebraska 68501-3581 | P: 402.476.2729 • F: 402.476.6454 | [www.lpsnrd.org](http://www.lpsnrd.org)

### Memorandum

**Date:** July 19, 2019  
**To:** Board of Directors  
**From:** Jared Nelson, District Engineer   
**RE:** Urban Subcommittee Meeting Minutes

The Urban Subcommittee met at 5:30 pm on Wednesday, July 17, 2019 in the NRD large conference room in Lincoln to discuss and/or take action on three agenda items. Subcommittee members present included Mike DeKalb, Robert Andersen, Debra Eagan, Tom Green, Luke Peterson, Milt Schmidt, and Ray Stevens. Members absent included Anthony Schutz. Others present included Paul Zillig, David Potter, Jared Nelson, Al Langdale, Bryce Jensen; Travis Figard with Olsson; Luke Dutcher with M&A; and Salene Ulrich, Wayne Regnier, Marilyn Patsch, Chris Ulrich, and Rachel Jamison all with the Village of Garland. Director DeKalb called the meeting to order at 5:30, gave a brief welcome, and reviewed the agenda.

#### (a.) Community Assistance Program – Village of Garland Drainage Evaluation

The Village of Garland has requested cost share funding through the Lower Platte South Natural Resources District's Community Assistance Program. The funding will be used to perform a drainage study on five problem areas with the community. The village is working with Miller & Associates, Consulting Engineers from Kearney, NE to assist in the evaluation. The problem areas are currently causing problems such as flooding of residential properties, standing water in roadways due to insufficient ditches/culverts, and erosion issues.

The proposed evaluation is estimated to cost \$16,000. This cost will include a survey, engineering analysis, and preparation of exhibits and options to remedy each problem. An opinion of cost will also be generated based on potential construction options. A letter of request from the village, a location map of the five areas, a memo from the engineer to the community, and photos were presented to the subcommittee.

David Potter presented background information on the project. Salene Ulrich introduced herself and the other four village representatives. Luke Dutcher with Miller & Associates identified the drainage issues in Garland and discussed the proposed drainage study and evaluation. Discussion from the subcommittee followed.

**It was moved by Stevens, seconded by Andersen, and unanimously approved by the Subcommittee to recommend approval of the Community Assistance Program application from the Village of Garland for the Drainage Evaluation in an amount of 50% of the estimated cost, not to exceed \$8,000 NRD funds.**

**(b.) Engineering Services Agreement for Design Services on a Channel Liner Repair in Antelope Creek.**

The second item was to consider a letter of agreement for profession services for a channel liner repair in Antelope Creek. Articulated block was used as the channel liner in the Antelope Creek Flood Reduction Project. The project was engineered by the US Army Corps of Engineers (USACE) and completed in phases. The entire project was completed in 2010. Phase 1 of the project reached from Salt Creek to Military Road. In 2006 a problem with the articulated block started to appear in an area just west of Bob Devaney Sports Center. The block began to uplift and shift somewhat. LPSNRD has submitted various reports to the USACE and has requested assistance on repair. Assistance from the USACE has been denied. Staff has decided to recommend hiring a consultant to look at possible repair options. A scope of services and fee has been prepared by Olsson, Inc. for design services for a channel liner repair in Antelope Creek – just upstream of Military Road west of Bob Devaney Sports Center. Services will include project management and coordination, site investigation, channel liner repair design, permitting, and bidding services. The total anticipated fee for all phases is \$15,000. A proposed scope of services and photos of the issue were supplied to the subcommittee.

Bryce Jensen discussed the problems and the proposed project. Travis Figard with Olsson further explained the proposed scope of services. The subcommittee and staff then discussed the history, problems, USACE request, timelines, and the need to make the repairs.

**It was moved by Eagan, seconded by Schmidt, and unanimously approved by the Subcommittee to recommend approval of the Letter of Agreement for Professional Services with Olsson, Inc. for the Antelope Creek Channel Liner Repair Project upstream of Military Road, in an amount not to exceed \$15,000, subject to legal counsel review.**

**(c.) Report - Deadmans Run Flood Reduction Project.**

The final item was to update the subcommittee on the Deadmans Run Flood Reduction Project. Paul Zillig discussed the railroad bridge flume physical modeling project, a meeting with the US Army Corps of Engineers on July 11<sup>th</sup>, and the water sustainability grant application. LPSNRD is planning to submit an application to the Natural Resources Commission for project assistance through the Water Sustainability Fund, however the application is not quite ready.

There being no further business the meeting adjourned at 6:05 pm.

# VILLAGE OF GARLAND

P. O. BOX 105  
 GARLAND, NE. 68360  
 (402) 588-2457  
[villageofgarland@gmail.com](mailto:villageofgarland@gmail.com)

**COPY**

June 5, 2019

Mr. Paul Zillig  
 General Manager  
 Lower Platte South N.R.D.  
 3125 Portia St., PO Box 83581  
 Lincoln, NE 68501-3581  
[pzillig@lpsnrd.org](mailto:pzillig@lpsnrd.org)

Re: Village of Garland – Drainage Issues – Community Assistance Program Request  
 M&A Project No. 494-B1-001

Dear Mr. Zillig:

The Village of Garland would like to request cost share funding through the Lower Platte South Natural Resources District's Community Assistance Program. The requested funding will be used to perform a focused drainage evaluation on four problem areas within the Village. We have contacted Miller & Associates, Consulting Engineers from Kearney, Nebraska to assist in the evaluation. The evaluation is anticipated to include a site visit, detailed surveys and analysis of each area, options to mitigate each issue, and cost estimates for each option. There are five areas which are currently causing problems such as flooding of residential properties, standing water in roadways due to insufficient ditches/culverts, and erosion issues. Below is a list of the problem areas and associated issues.

1. *North and South sides of 2<sup>nd</sup> street East 4 blocks:* Both sides of 2<sup>nd</sup> street from Fraizer to Nash streets. Standing water in yards and ditches after rainfall. Drainage paths and adequate culverts will be investigated.
2. *West Side of Frazier Street, from 3<sup>rd</sup> Street North 3-4 blocks:* The west side of Frazier St. in the area indicated has standing water after rainfall events and does not drain properly. Ditch and culvert pipe adequacy will be evaluated.
3. *Intersection of 6<sup>th</sup> Street and Ryan Street:* Runoff is flooding all four (4) yards on the adjacent corners, with the southeast property appearing to be the worst. Problem may not be isolated to this intersection, and adjacent blocks will also be studied. Establishing a drainage path via ditches/culverts will be analyzed.
4. *Intersection of 5<sup>th</sup> Street and Ryan Street:* Similar to location 2 above, this intersection has standing water and flooding after rainfall events. Existing drainage paths including ditches and culverts will be investigated.

5. *East Side of Frazier Street, from 5<sup>th</sup> Street to 7<sup>th</sup> Street:* The culverts in this area may not be adequate and/or are failing. Street pavement failures due to culvert conditions are suspected. Localized flooding in this area will also be evaluated.

The Village will also work with Miller & Associates to identify other areas throughout the Village which could be improved from a drainage standpoint. Many areas of town appear to have inadequate ditches and culverts resulting in drainage issues. The areas identified above appear to be the locations with the most prevalent issues for the community.

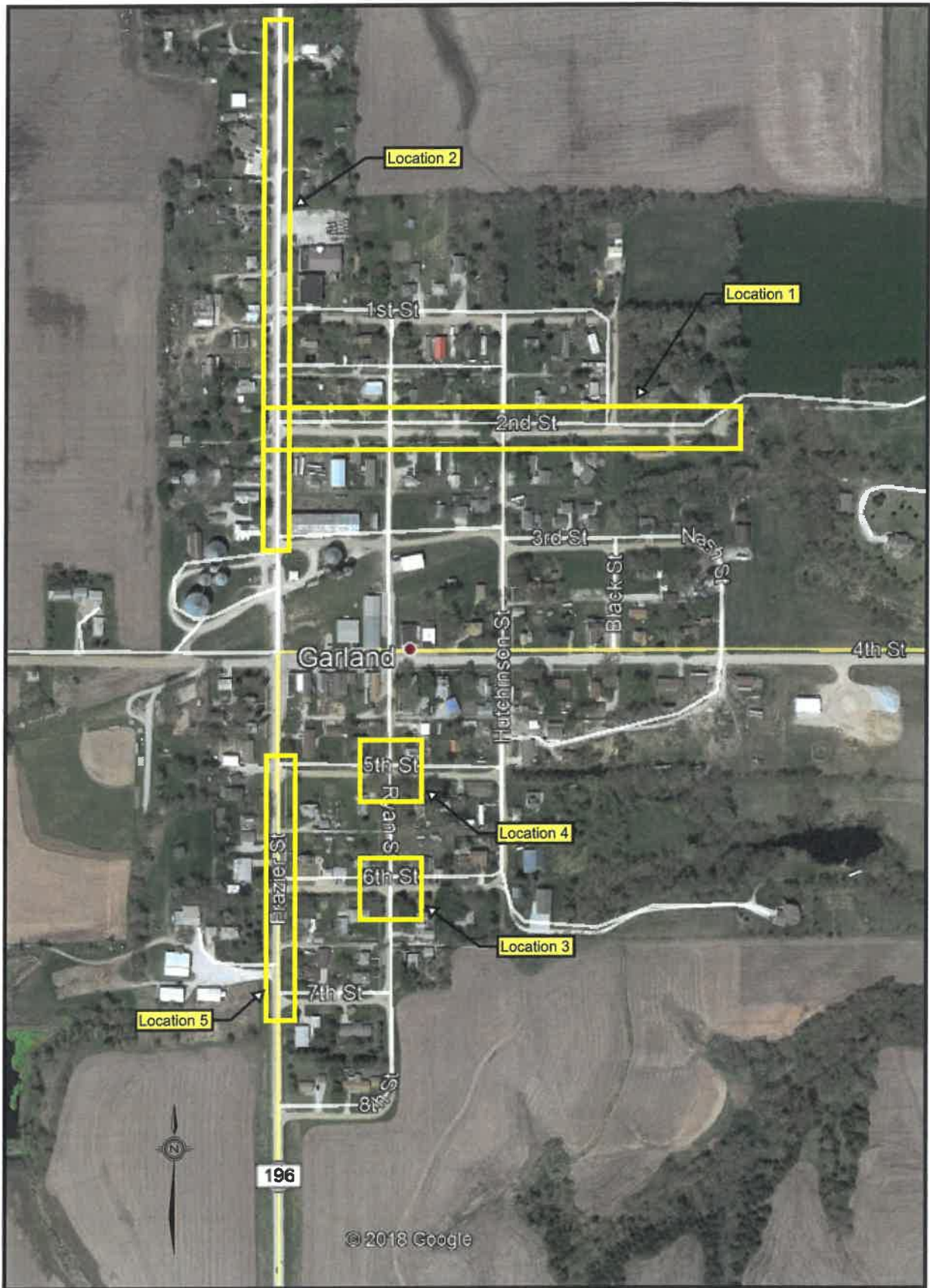
Per our discussion with Miller & Associates, the proposed evaluation is estimated to cost \$16,000. This cost will include survey, engineering analysis, and preparation of exhibits and options to remedy each problem, as well as a site visit and cost estimates for potential options. The Village of Garland would like to enter into a contract with Miller & Associates, and upon award of cost share monies, we would issue a notice to proceed to the firm.

We look forward to your decision regarding the request for cost sharing. Please contact *Salene Ulrich* with any questions.

Sincerely,

*Salene Ulrich*

cc: Ed Ubben, Projects Coordinator, LPSNRD, [eubben@lpsnrd.org](mailto:eubben@lpsnrd.org)  
Luke Dutcher, P.E., Miller & Associates, [ldutcher@miller-engineers.com](mailto:ldutcher@miller-engineers.com)



**DATE:** June 5, 2019  
**TO:** Village of Garland – Village Board  
**FROM:** Luke Dutcher, Miller & Associates  
**RE:** Drainage Evaluation & Cost Sharing w/Lower Platte South NRD

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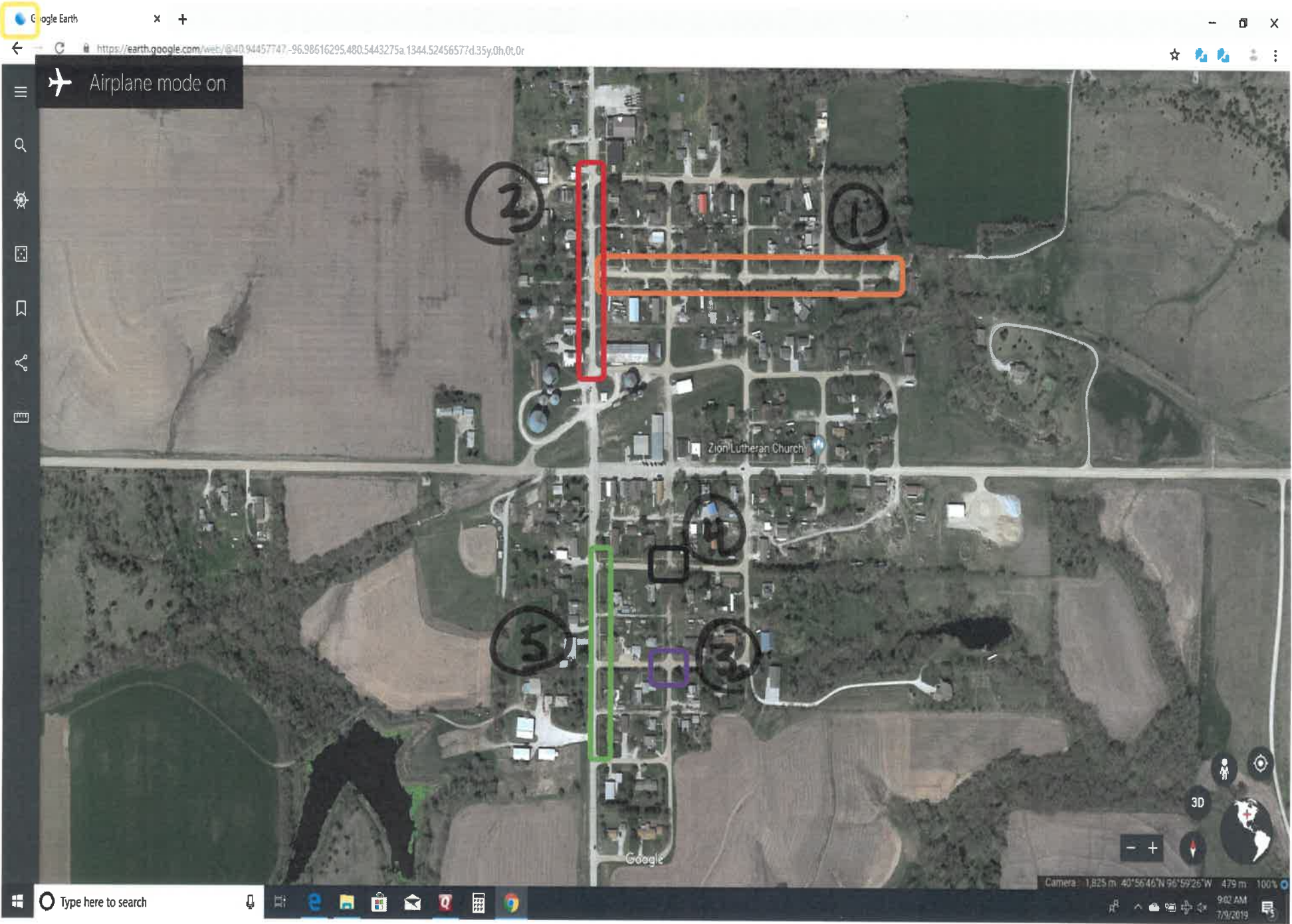
**MESSAGE:**

Regarding the drainage evaluation for the Village of Garland, I have been in contact with Ed Ubben with the Lower Platte South Natural Resources District (LPSNRD). I discussed with him your desire to apply for the Community Assistance Program to help cost share a drainage evaluation within the Village. Ed walked me through following steps which we will need to follow:

- 1) Provide a letter to LPSNRD from the Village of Garland describing the project and requesting cost sharing through their Community Assistance Program.
- 2) Upon receipt of that request, the LPSNRD will contact the Village about presenting the request to their project sub-committee and full board.
- 3) Village representative and consultant (M&A) will attend project sub-committee meeting to present the project and request.
- 4) Village representative and consultant (M&A) will attend LPSNRD board meeting and present to full board.
- 5) LPSNRD will make a final decision on cost sharing.

The intention is to do the project in two phases. Phase 1 is the evaluation portion where the drainage issues are investigated, site visits and field surveys are conducted, and potential options and associated cost estimates are developed. This information would then be provided to the Garland Village Board and LPSNRD for review. After an option/project is selected, Phase 2 would be the design and construction portion of the project. At this point a second request would be made to LPSNRD for cost sharing on the implementation of the design and construction portion.

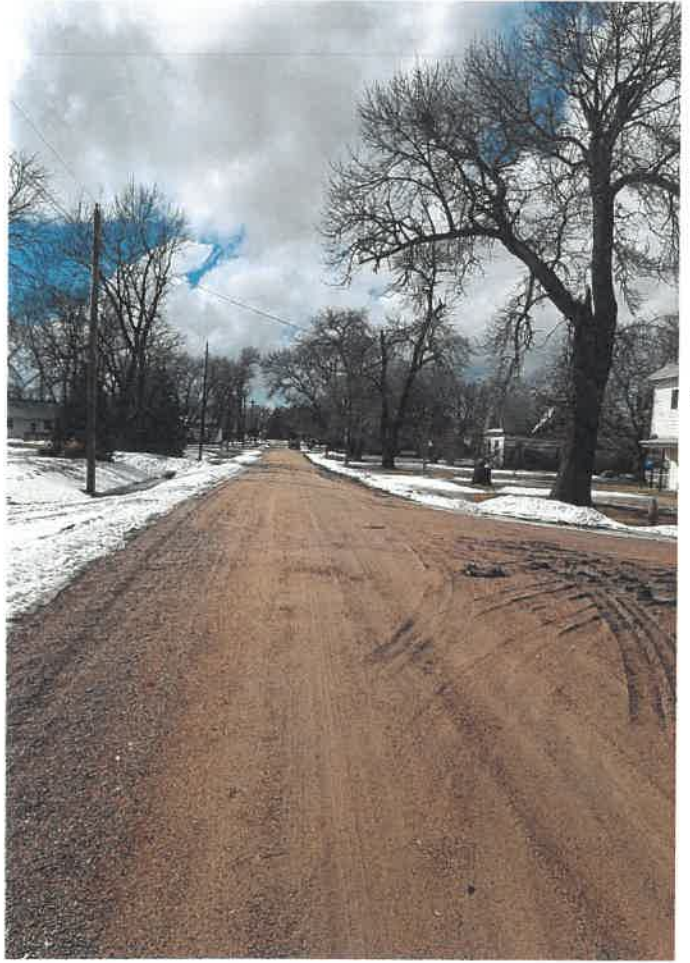
I have provided a letter template to the Village so that step number 1 above can be done. Please let me know if you hear back from LPSNRD upon receipt of your letter.



## AREA

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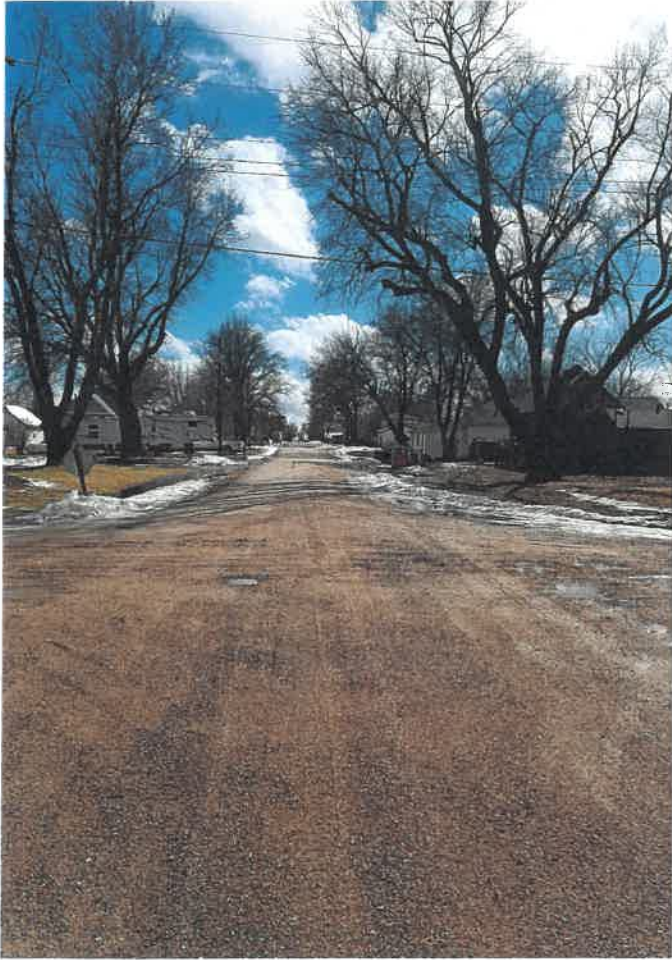
Area 1 - 2nd and Black



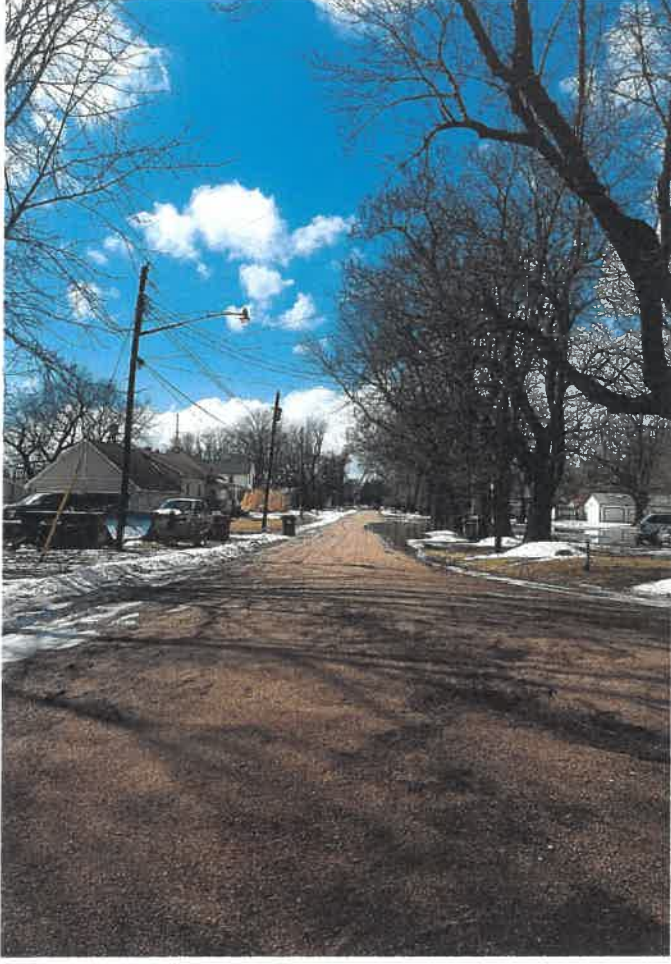


Area 1 - 2nd and Frazier





Area 1 - 2nd and Hutchinson



Area 1 - 2nd and Nash



Area 1 - 2nd and Ryan





AREA 2 - 1st and Frazier



AREA 2 - 2nd and Frazier



Area 2 - 3rd and Frazier



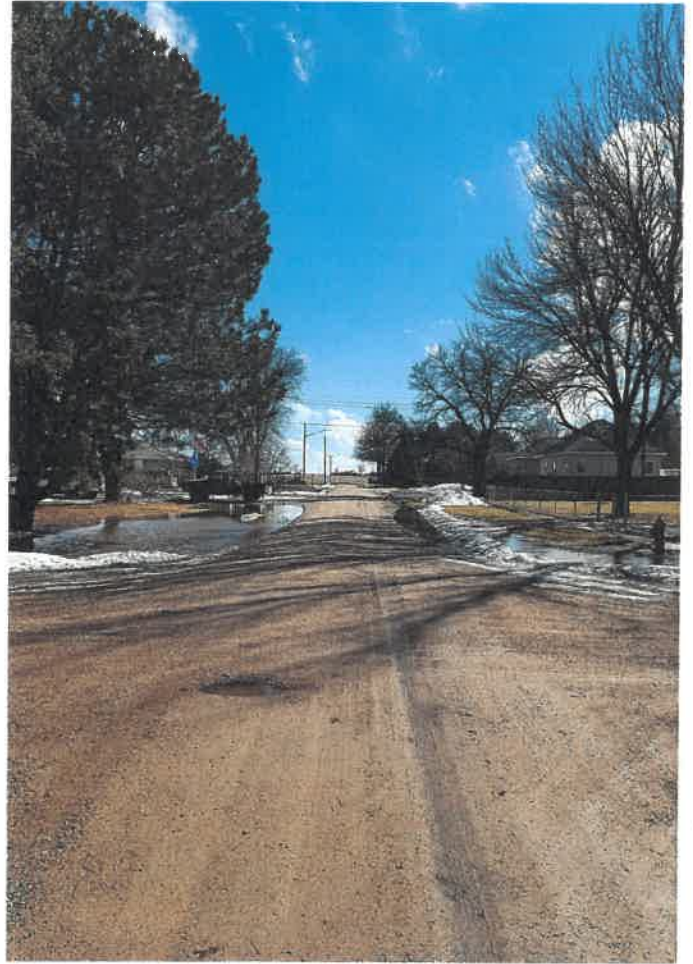




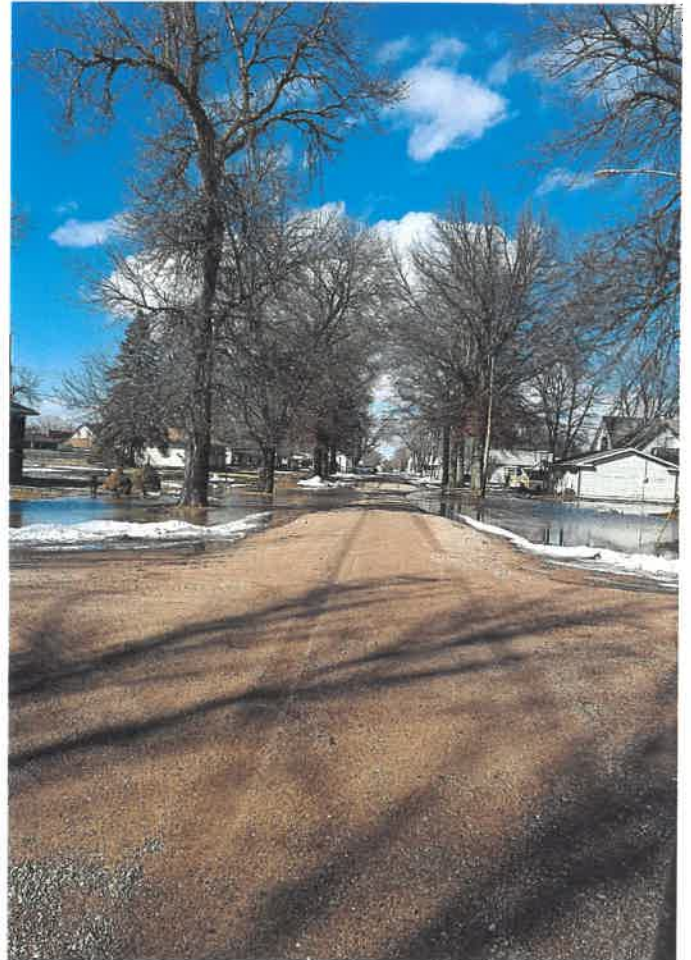
Area 2 - 4th and Frazier



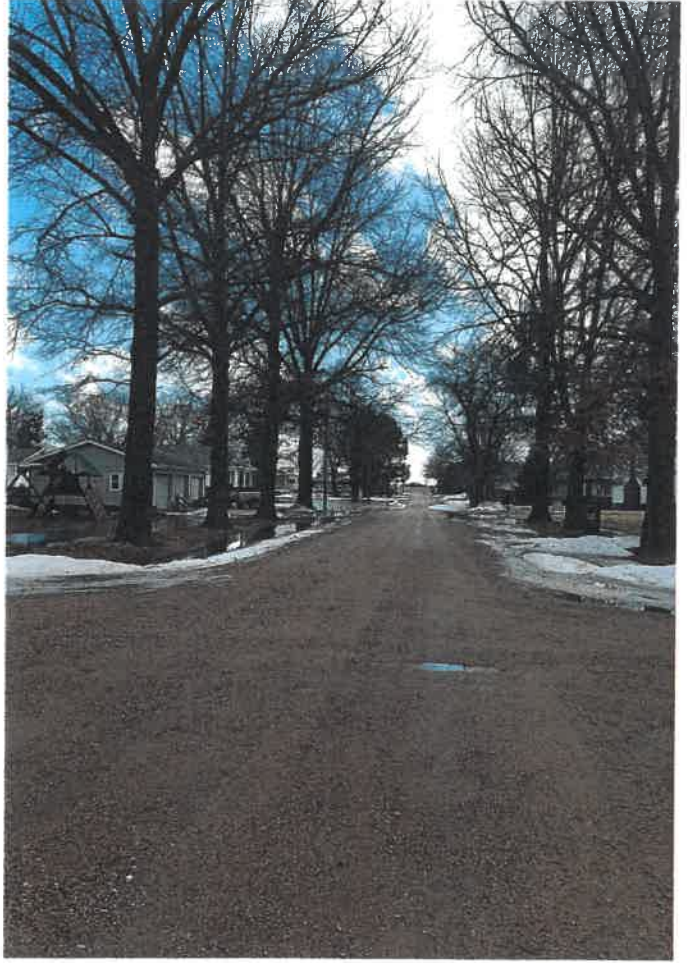




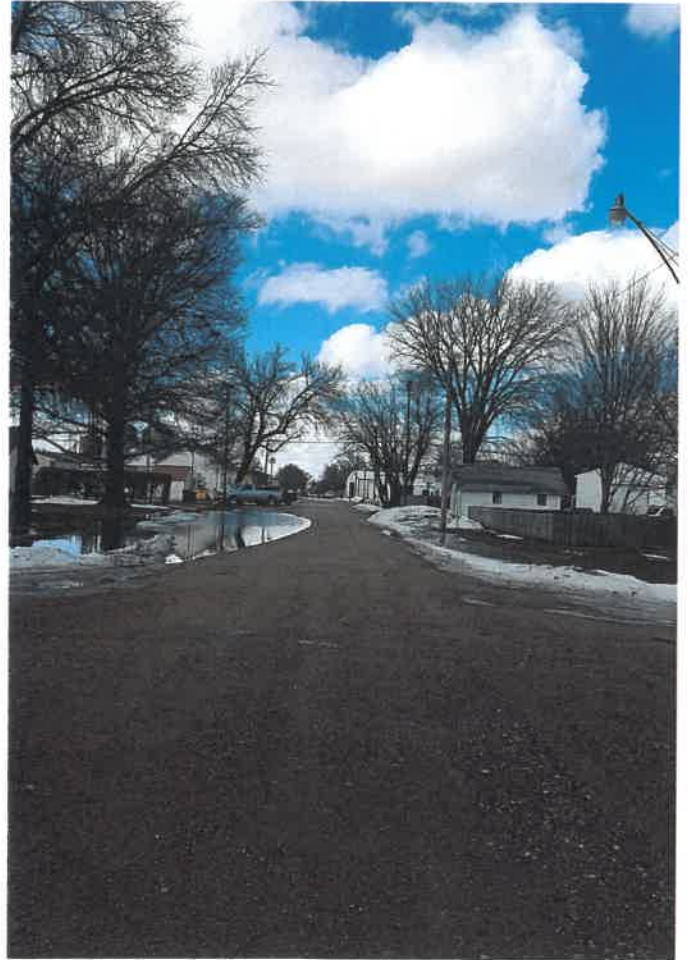
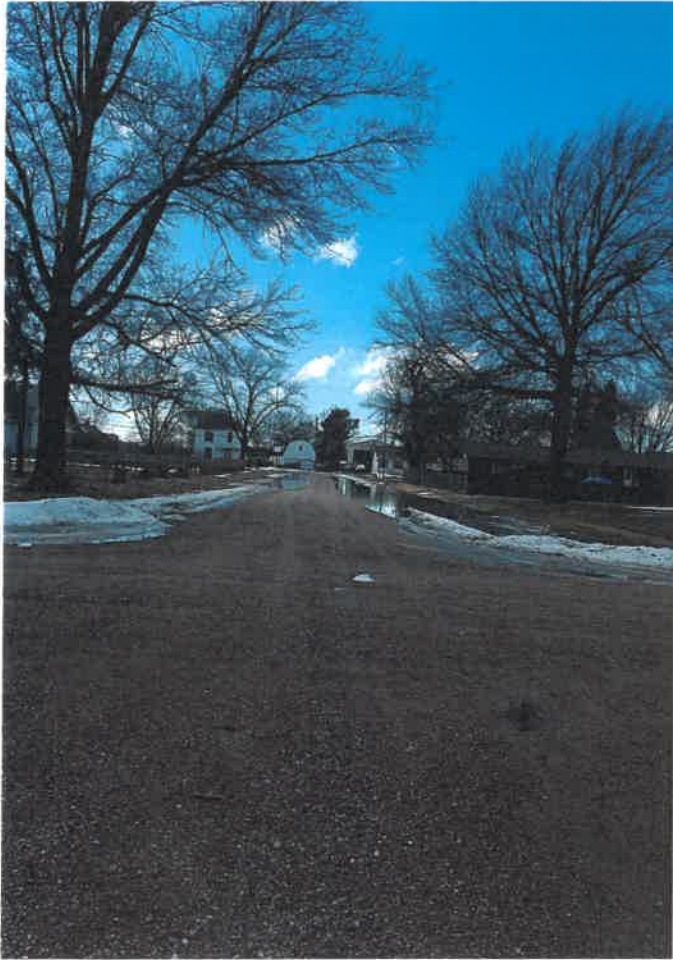
Area 3 - 6th and Ryan

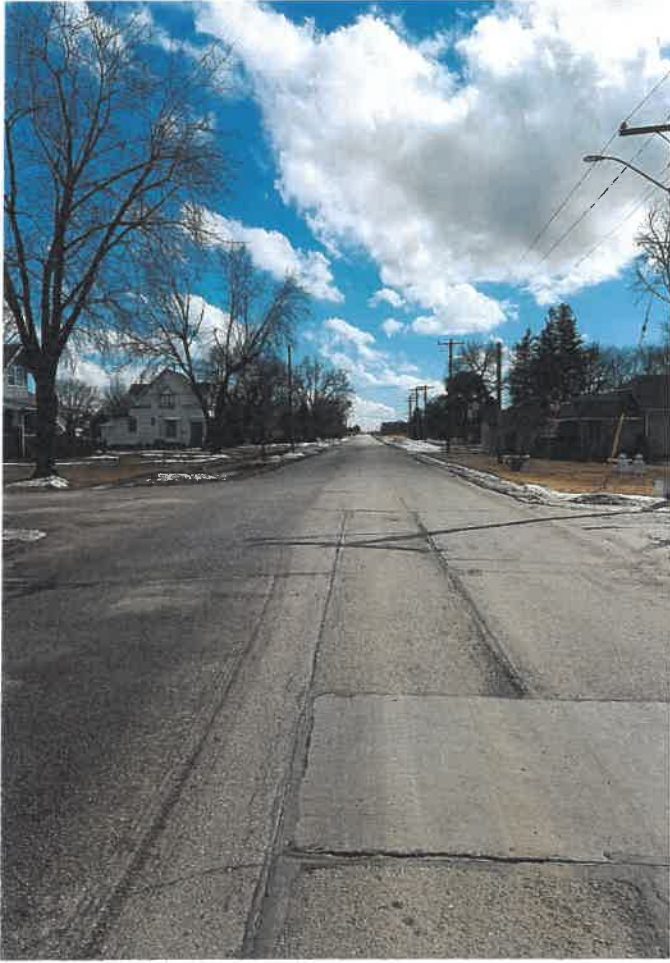






Area 4 - 5th and Ryan





Area 5 - 5th and Frazier





Area 5 - 6th and Frazier





Area 5 - 7th and Frazier





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**SCOPE OF SERVICES**

This exhibit is hereby attached to and made a part of the Letter Agreement for Professional Services dated July 15, 2019 between Lower Platte South Natural Resources District (LPSNRD) (“Client”) and Olsson, Inc. (“Olsson”) providing for professional services. Olsson’s Scope of Services for the Agreement is indicated below.

**PROJECT DESCRIPTION AND LOCATION**

Project will be located at: Antelope Creek Channel upstream of Military Roadway

Project Description: Channel Liner Repair in Antelope Creek – Just upstream of Military Road

**SCOPE OF SERVICES**

Olsson shall provide the following services (Scope of Services) to Client for the Project:

**DESIGN SERVICES**

**Phase 100 – Project Management and Coordination**

**Task 100001 – Project Management**

Coordination and communication with the Client, including project updates, meeting minutes, and repair alternative.

**Task 100002 – Project Meetings**

Meetings with Client will be required during the project. One meeting will be required during the project to discuss the results of the preliminary analysis.

**Time and expense basis anticipated fee - \$2,000**

**Phase 200 - Site Investigation**

**Task 200001 – Topographic Survey**

Conduct a field survey (where needed) to determine existing topographic features and exact location of the channel liner failure. Locate vertical benchmarks and horizontal control points.

**Task 200002 – Prepare a Site Plan**

Prepare a site plan showing the information obtained during the field survey. The utility locations and sizes will be determined by surveying the flagged ‘One Call’ locations of the visible features and using record information from the utility owners. No underground exploration for utilities will be provided.

**Time and expense basis anticipated fee - \$500**

### **Phase 300 – Channel Liner Repair Design**

#### **Task 300001 – Channel Liner Repair Design**

Olsson shall development repair plans for the channel failure located upstream of Military Road along Antelope Creek. This task will include developing repair alternatives and construction costs associated with each alternative. Olsson will meet with the LPSNRD to discuss alternatives and then develop final repair plans based off that review meeting.

**Time and expense basis anticipated fee - \$7,500**

### **Phase 400 – Permitting**

#### **Task 400001 – Floodplain**

Prepare and submit a floodplain development permit for the work associated with channel liner repair plans.

**Time and expense basis anticipated fee - \$2,500**

### **Phase 500 – Bidding Services**

#### **Task 500001 – Bidding Services**

The team will prepare the appropriate bid documents and specifications for the project. Construction of all the proposed measures for the project will be bid as one project in one bid package. If more than one bid package is necessary, then a fee will be negotiated for the extra work required to prepare a second set of documents.

Prepare bid advertisements and administer the plan distribution and bidding process. The Client will be responsible for advertising costs.

Schedule and run the bidding process including bid meetings, documenting the contractor selection process, and working with the Client and the selected contractor to prepare contract documents for construction of the proposed measures.

**Time and expense basis anticipated fee - \$2,500**

**Total anticipate fee for All Phases - \$15,000**

This project assumes all repairs done will be considered maintenance and no correspondence will be completed with the United States Army Corps of Engineers (USACE).

### **Future Services**

The 100% final plans developed during this project will be utilized for construction documents. Future Olsson services can include Construction Observation and Administration.

Should Client request work in addition to the Scope of Services, Olsson shall invoice Client for such additional services (Optional Additional Services) at the standard hourly billing labor rate charged for those employees actually performing the work, plus reimbursable expenses if any.

Olsson shall not commence work on Optional Additional Services without Client's prior written approval.

Olsson agrees to provide all of its services in a timely, competent and professional manner, in accordance with applicable standards of care, for projects of similar geographic location, quality and scope.





