

**CITY COMMISSION AGENDA MEMO**  
**May 20, 2008**

**FROM:** Deborah Berry, Engineering Aide II

**MEETING:** June 3, 2008

**SUBJECT:** Award Contract for 2008 Street Maintenance Project,  
Phase II, Mill and Overlay ~ Asphalt (ST0815)

**PRESENTER:** Robert K. Ott, P.E., City Engineer

**BACKGROUND**

As part of the 2008 Street Maintenance Program, it is necessary to mill and overlay damaged streets throughout the City. Attached are maps of the various streets that have been identified for mill and overlay. Bids were collected based on the streets identified. A bid letting was held on Friday, May 16, 2008.

Included with this memo are maps showing all the streets that we identified as requiring repairs this year. The maps have all the projects that are intended for the 2008 Street Maintenance Program. Traditionally we bid projects first that are more susceptible to market adjustments such as oils used in asphalt. The remaining funds are used to define the scope of the remaining projects. This year we intend to have the following four phases:

- Phase I - The annual Street Maintenance Program involves rejuvenating existing pavements with a product known as Reclamite (awarded earlier).
- Phase II – Asphalt Mill and Overlay – Existing asphalt streets are milled approximately 2 inches, and then a new layer of asphalt is installed. For existing streets that are concrete, we simply place 2 inches of asphalt on top of the roadway.
- Phase III – Nova Chip Overlay – We recently used this product on Anderson Avenue from K-113 to Wreath Avenue. This product uses emulsified asphalt as a binder between the concrete and the 1 inch asphalt overlay. The binder is intended to seal the concrete surface from moisture penetration. Our intent is to use this on Kimball Avenue from the Candlewood Shopping entrance to the end of the concrete pavement west of Little Kitten Avenue and on 3<sup>rd</sup> Street from Thurston to US-24 to address the continued spawling and opening of joints along these segments because of moisture entering the cracks.
- Phase IV – Concrete Panel Replacement – For streets that are existing concrete, we have identified panels segments that are in need of total replacement. This requires that portions of the existing concrete pavement to be completely

removed, new AB-3 base rock is installed under the concrete, and then new concrete is poured and tied with re-bar to the adjacent panels.

## **DISCUSSION**

The City of Manhattan requested bids to complete its 2008 Street Maintenance Project, Phase II. Attached is a bid summary outlining the results of the May 16, 2008, bid letting. Shilling Construction Company, Inc., of Manhattan, Kansas, was the only bidder with a bid of \$854,354.90.

The project was advertised by the City in the local newspaper, the Manhattan Mercury, and an out-of-town newspaper, the Topeka Capital Journal. It was also advertised on our online web service, which multiple contractors are immediately notified when new projects are added and open for bidding. Contractors were provided with the opportunity to download our document book and contract documents for this project directly from the City Web Page.

There are a few reasons why only one bid was received.

- The second asphalt plant which was located within a reasonable distance to Manhattan that could provide the material has been sold to another company out of state and has closed. Ritchie Paving was the original owner of the plant and changed owners a few years ago before it went out of business last year.
- The amount of major KDOT and County Projects in this area this year is lower than normal. KDOT has completed some of its major modification projects to the State Highway System, and there is a limited number of projects that could potentially provide for an out-of-town contractor to set up a mobile asphalt plant in this area.
- There is a limit to the distance in which asphalt can be hauled from a plant to a job site for installment before it cools. With current gas and diesel prices, the distance to move materials will play an even more critical factor in how projects are bid throughout the country.

## **FINANCING**

Because of the increase in recent prices on asphalt, City Administration is recommending to reduce the project by not repairing the following roadway segments in Manhattan:

- Anderson Avenue – Mill 18,893 SY; Asphalt 2,055 Tons
- Kimball Avenue (K-113 Interchange Area) –Mill 9,141 SY; Asphalt 994 Tons
- Kimball Avenue (Ranser Road to Mercy Entrance) – Mill 9,947 SY; Asphalt 1,082 Tons

These segments that are not repaired will be delayed until next year and will be re-evaluated next year against that backlog of streets that the City delayed from putting into

this year's project. If these reductions are made, the City has adequate funds in the Special Streets and Highway Fund for this project.

These reductions amount to a decrease in the amount of \$247,072.45 from the total bid amount of \$854,354.90 which means the total project cost is estimated at \$607,282.45 and will be paid from the Special Street and Highway Fund.

## **ALTERNATIVES**

It appears the Commission has the following alternatives concerning the issue at hand. The Commission may:

1. Award a contract to Shilling Construction Company, Inc., of Manhattan, Kansas, for the 2008 Street Maintenance Project, Phase II, Mill and Overlay ~ Asphalt (ST0815), in the amount of \$607,282.45.
2. Deny the award to Shilling Construction Company, Inc., of Manhattan, Kansas.
3. Modify to meet the needs of the Commission.
4. Table the request.

## **RECOMMENDATION**

City Administration recommends the City Commission accept an amended bid amount of \$607,282.45 and award a contract to Shilling Construction Company, Inc., of Manhattan, Kansas, in the amount of \$607,282.45. City Administration will use these reductions to aid in another phase of street maintenance which will be concrete panel replacement. With this mill and overlay project, the nova chip project also on this agenda, and the previously approved reclamite project, estimated committed expenditures are \$781,091.55. City Administration had originally targeted about \$1 million in the Special Street and Highway Fund for the annual street maintenance program. It is advisable that the City use additional carryover in this fund for additional maintenance projects after significant winter damage to our roadways. Higher oil prices for asphalt are definitely impacting the City's ability to perform as much maintenance.

## **POSSIBLE MOTION**

Accept an amended bid amount of \$607,282.45 and award a contract to Shilling Construction Company, Inc., of Manhattan, Kansas, in the amount of \$607,282.45 for the 2008 Street Maintenance Project, Phase II, Mill and Overlay ~ Asphalt (ST0815).

RO/ie/08072

Enclosures:

1. Bid summary
2. List of Streets
3. Maps

CITY OF MANHATTAN/PUBLIC WORKS  
1101 POYNTZ AVENUE  
MANHATTAN, KS 66502



## BID SUMMARY

2008 Street Maintenance Project Phase II  
Mill and Overlay ~ Asphalt  
Project No. ST0815

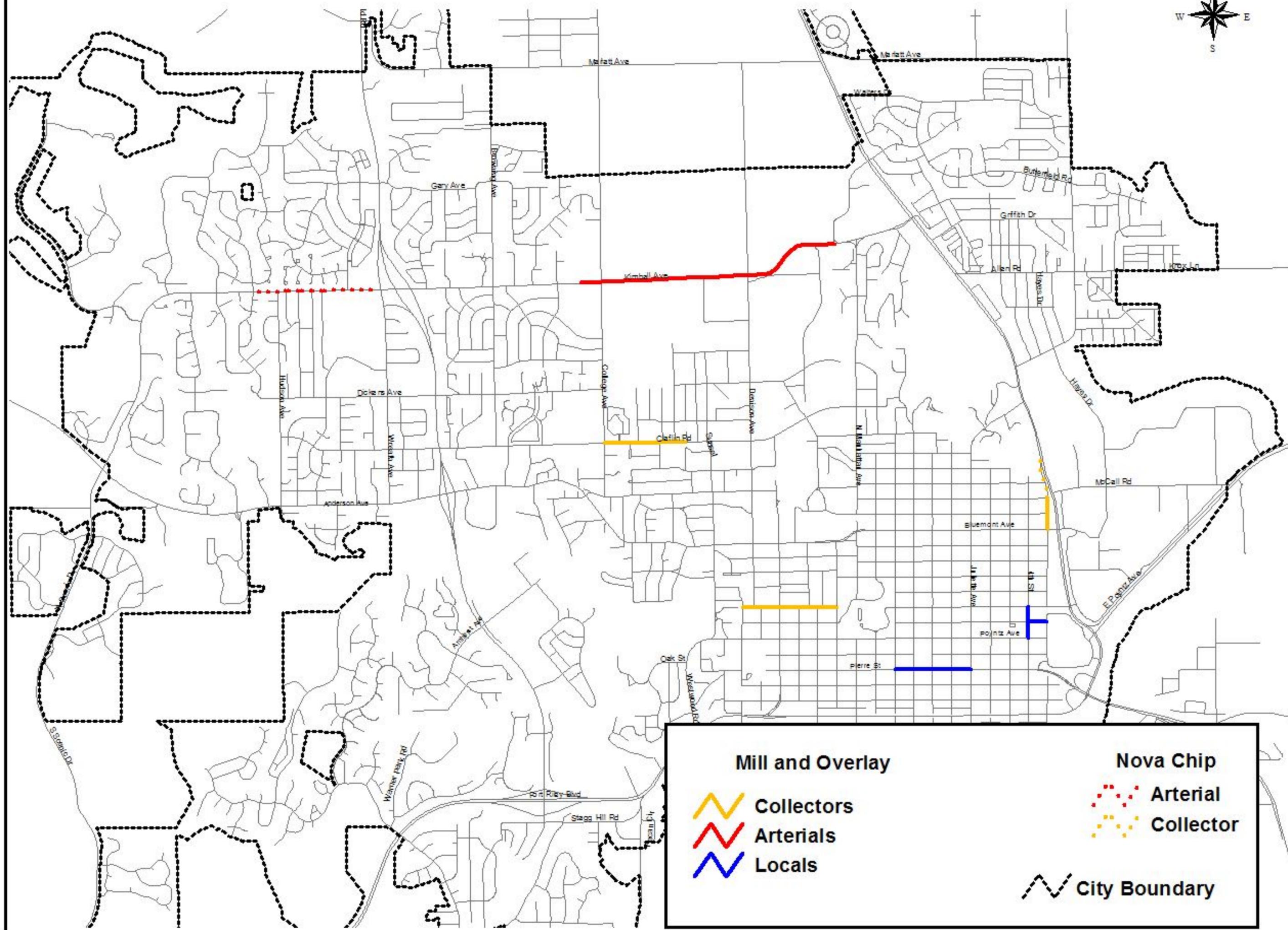
| BIDDER  | NET BID        |
|---|----------------|
| Schilling Construction<br>555 Poyntz Avenue<br>Manhattan, KS 66502-0127 | \$854,354.90 * |
|   |                |
|   |                |
|   |                |
|   |                |

(\*) Recommend Award of Contract

| Street Classification | Project Name   | From              | To              | Approximate Width (Feet) | Approximate Length (Feet) | Milling Required | Millings Depth (in) | Overlay Depth (in) | Pavement Markings |
|-----------------------|----------------|-------------------|-----------------|--------------------------|---------------------------|------------------|---------------------|--------------------|-------------------|
| Arterial              | Kimball Ave    | Meadow Lark Rd    | St Thomas Moore | 48                       | 6220                      | Yes              | 2                   | 2                  | Yes               |
| * Arterial            | Anderson Ave   | Sunset Ave        | 14th St         | 49                       | 3470                      | Yes              | 2                   | 2                  | Yes               |
| * Arterial            | Kimball Ave    | Kenmar Dr         | St Thomas Moore | 45                       | 1920                      | Yes              | 2                   | 2                  | Yes               |
| * Arterial            | Kimball Ave    | Wreath Ave        | Seaton Ave      | 48                       | 1714                      | Yes              | 2                   | 2                  | Yes               |
| Collector             | Leavenworth St | N 14th St.        | Delaware        | 48                       | 2291                      | Yes              | 2                   | 2                  | Yes               |
| Collector             | Clafin Rd      | Charles Little Pl | College Ave     | 44                       | 1900                      | Yes              | 2                   | 2                  | Yes               |
| Collector             | 3rd Street     | Bluemont Ave.     | Thurston St     | 35                       | 1110                      | Yes              | 2                   | 2                  | Yes               |
| Local                 | Pierre St      | Juliette Ave      | 11th St         | 30                       | 1860                      | Yes              | 2                   | 2                  | Yes               |
| Local                 | 4th Street     | Leavenworth St    | Poyntz          | 41                       | 750                       | Yes              | 2                   | 2                  | Yes               |
| Local                 | Humboldt       | 3rd               | 4th             | 41                       | 415                       | Yes              | 2                   | 2                  | Yes               |

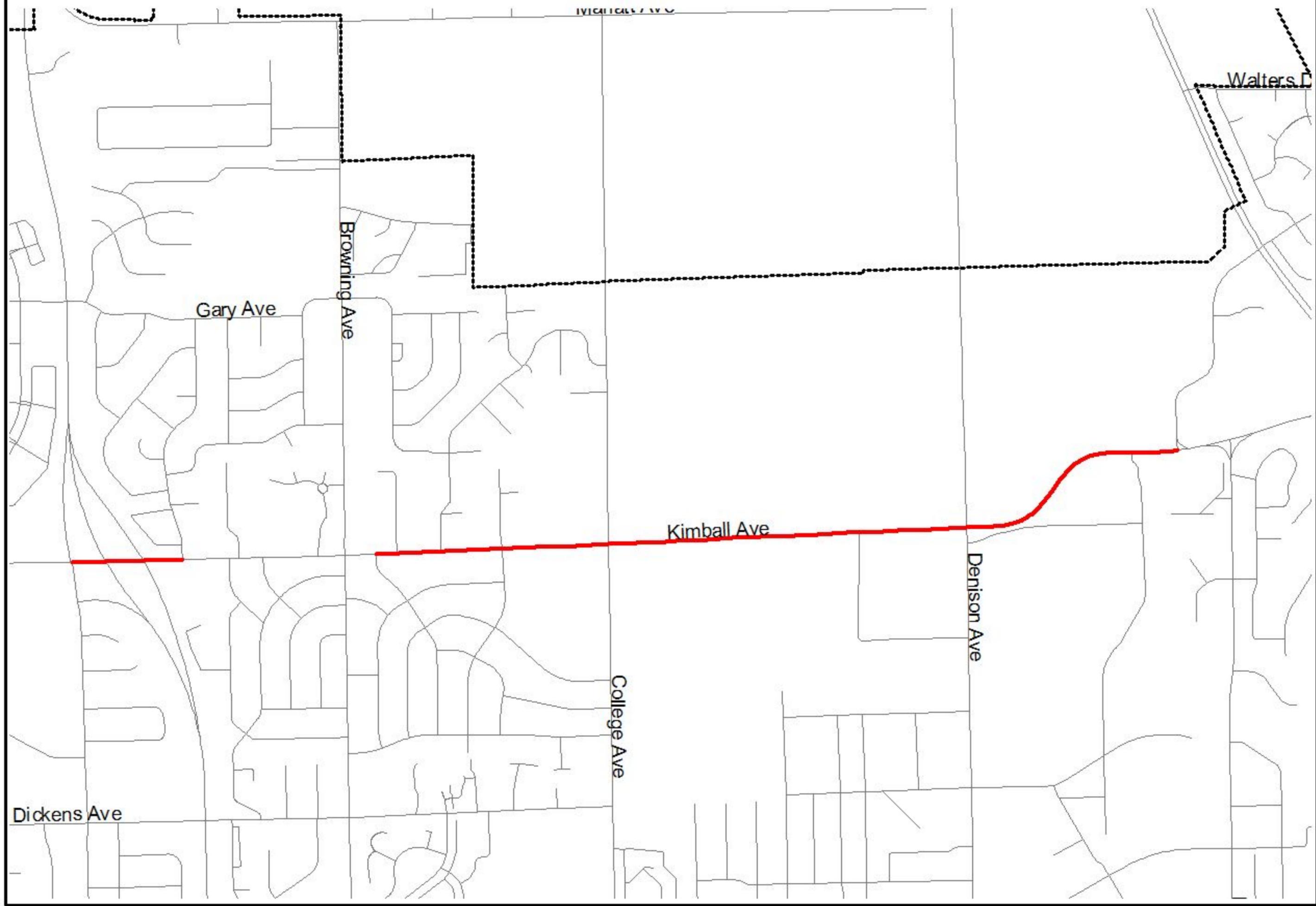
\* These segments have been delayed until next year.

# 2008 Mill & Overlay Maintenance Project



| Mill and Overlay |            | Nova Chip |               |
|------------------|------------|-----------|---------------|
|                  | Collectors |           | Arterial      |
|                  | Arterials  |           | Collector     |
|                  | Locals     |           | City Boundary |

# Kimball Avenue



Leavenworth St



Delaware Ave

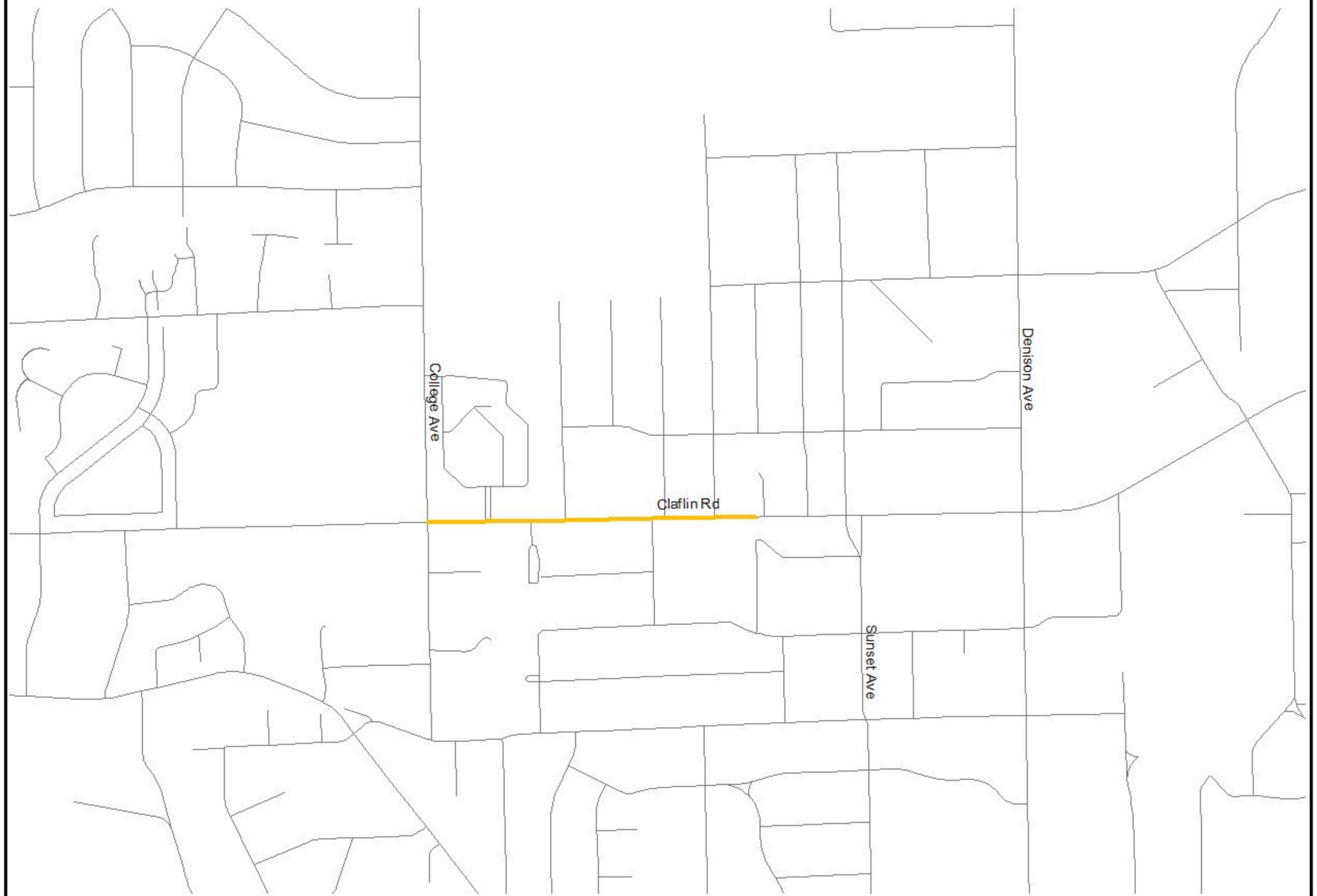
Leavenworth St

14th St

Pierre St



# Claflin Rd



3rd St



McCall Rd

Kearney St

3rd St

Bluemont Ave

4th St



Pierre St



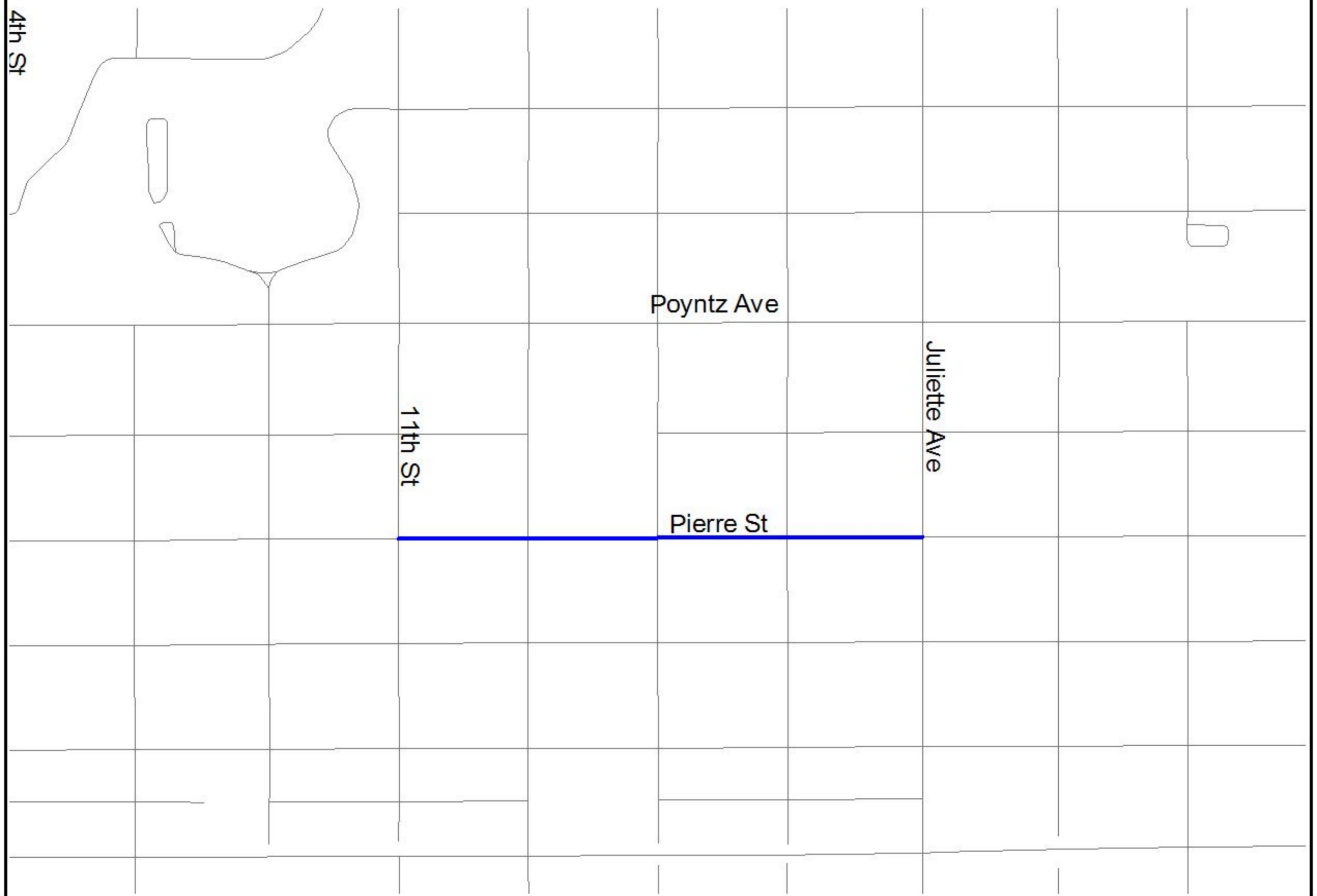
4th St

Poyntz Ave

Juliette Ave

11th St

Pierre St



# Humboldt St & 4th St

