

## Exhibit "A"

### Scope of Basic Services For:

|   |  |
|---|--|
| <b>Project:</b>                                 | W. Boyd Street – From College Ave. to S. Pickard Ave.  |
| <b>Client:</b>                                  | City of Norman, Oklahoma   |
| <b>Location of Project:</b>                     | Norman, Oklahoma – Location on W. Boyd Street Between College Ave. and S. Pickard Ave.   |
| <b>Discipline:</b>                              | Civil  |
| <b>Discipline Manager:</b>                      | Mike Williams  |
| <b>Project Manager:</b>                         | Mike Williams  |
| <b>Proposal Date:</b>                           | January 8, 2024  |
| <b>Billing Type:</b>                            | Lum Sum  |
| <b>Fee/Estimate:</b>                            | \$ 120,500.00  |
| <b>Description of the Construction Project:</b> | Replacement of the existing 24" and 18" Storm drainpipe under W. Boyd Street between College Ave and S. Pickard Ave. Approximately 2100 feet of storm drainpipe. |

The services to be provided by the Engineer:

#### **Data Collection Phase:**

- Site Topographic Survey Crafton Tull survey
- Sidewinder Potholing to determine the depths and location of utilities for design and construction.

#### **Final Design Phase ("On-site" Only):**

- Construction Drawings to include:
  - Title Sheet
  - Typical Sections
  - Pay Quantities Sheet & Summaries
  - Stormwater Management Plan
  - Drainage Map
  - Existing Conditions
  - Pavement Removal Sheet
  - Storm Sewer Profiles
  - Erosion Control Plan & Details
  - Hydrology map of the area to estimate the Storm water run / Size the pipe with current runoff data.
  - Storm Water Permitting with City and applicable State Agency
  - Traffic Control Plans
  - Striping Plan

#### **Bidding & Negotiating Phase:**

- Quantity Take-offs & Engineers Estimate
- Bid Documents Prepared.
- Receive Bids & Tabulate Results
- Recommend Contractor to City of Norman

**Items Provided by Owner:**

- Current Pavement Section of W. Boyd Ave.

Fee Estimate for the Engineering plans and Estimate.

**Construction Estimate:**

Work Require – Remove and Replace 1700 LF of 24" RCP and 400 LF of RCP, cut and repair asphalt pavement 5' wide trench. Traffic Control, Striping, Erosion control.

**Demolition**

| Quantity         | Unit | Item                    | Cost | Amount             |
|------------------|------|-------------------------|------|--------------------|
| 3400             | LF   | Sawcut Asphalt Pavement | \$5  | \$17,00            |
| 950              | SY   | Pavement Removal        | \$13 | \$12,350           |
| 1700             | LF   | 24" RCP removal         | \$20 | \$34,000           |
| 400              | LF   | 18" RCP removal         | \$17 | \$6,800            |
| <b>Sub Total</b> |      |                         |      | <b>\$70,150.00</b> |

**Roadway**

| Quantity         | Unit | Item                           | Cost    | Amount           |
|------------------|------|--------------------------------|---------|------------------|
| 950              | SY   | 2" Type S-4 Asphalt Pavement   | \$166   | \$158,000        |
| 950              | SY   | 3.5" Type S-3 Asphalt Pavement | \$134.8 | \$128,051        |
| 175              | CY   | 6" Type A Aggregate Base       | \$104   | \$18,200         |
| 400              | Gal  | Tack Coat                      | \$4.25  | \$1,700          |
| 950              | SY   | 6" Stabilized Base             | \$18.7  | \$17,765         |
| <b>Sub Total</b> |      |                                |         | <b>\$323,720</b> |

**Storm Drainage**

| Quantity         | Unit | Item                 | Cost | Amount            |
|------------------|------|----------------------|------|-------------------|
| 1700             | LF   | 24" RCP              | \$95 | \$161,500         |
| 400              | LF   | 18" RCP              | \$75 | \$30,000          |
| 100              | CY   | Crushed Rock Bedding | \$80 | \$8,000           |
| <b>Sub Total</b> |      |                      |      | <b>\$199,500.</b> |

**Traffic**

| Quantity         | Unit | Item                                    | Cost    | Amount             |
|------------------|------|---|---------|--------------------|
| 6                | SD   | Type 3 Barricades                       | \$600   | \$3,600            |
| 9000             | SD   | Channelizer Cones                       | \$1     | \$9,000            |
| 5800             | SD   | Drums                                   | \$2.5   | \$14,500           |
| 2900             | LF   | Portable Long. Barrier                  | \$22.50 | \$65,250           |
| 2816             | LF   | Temp. Construction Traffic Stripe paint | \$1     | \$2,816            |
| 2816             | LF   | Traffic Strip Paint (yellow)            | \$1     | \$2,816            |
| 500              | LF   | Traffic Strip Paint (white)             | \$1     | \$500              |
| <b>Sub Total</b> |      |   |         | <b>\$98,482.00</b> |

**Erosion Control**

| Quantity         | Unit | Item           | Cost  | Amount           |
|------------------|------|----------------|-------|------------------|
| 14               | Ea.  | Inlet Barriers | \$250 | \$3500.00        |
| <b>Sub Total</b> |      |                |       | <b>\$3500.00</b> |

**Mobilization**

| Quantity | Unit | Item         | Cost     | Amount   |
|----------|------|--------------|----------|----------|
| 1        | LSUM | Mobilization | \$84,767 | 84,767.0 |

Total Construction Cost **\$780,119.6**

|                           |                            |
|---------------------------|----------------------------|
| <u>Survey</u>             | \$15,000.00                |
| <u>Sidewinder</u>         | \$15,000.00                |
| <u>Engineering Fee</u>    | \$90,500.00                |
| <u>Total Fee Eng. Fee</u> | <b><u>\$120,500.00</u></b> |