

|                        |                   |
|------------------------|-------------------|
| Agreement No.          | BK2349-003        |
| Effective (NTP) Date   | 6/5/2026          |
| Supplement Amount      | \$200,973.95      |
| Total Agreement Amount | CPFF \$221,768.15 |

## PROFESSIONAL SERVICES AGREEMENT SUPPLEMENT NO. 3

CITY OF BLAIR  
JEO CONSULTING GROUP, INC.  
PROJECT NO. TAP-89(35)  
CONTROL NO. 22928  
RIVER ROAD CONNECTOR TRAIL  
PRELIMINARY ENGINEERING SERVICES

**THIS SUPPLEMENTAL AGREEMENT** is between the City of Blair ("LPA") and JEO Consulting Group, Inc. ("Consultant"), collectively referred to as the "Parties".

**WHEREAS**, Consultant and LPA entered into an agreement ("Original Agreement") executed by LPA on February 27, 2024; Supplemental Agreement No. 1 executed by LPA on March 11, 2025, and Supplemental Agreement No. 2 executed by LPA on October 28, 2025 for Consultant to provide Preliminary Engineering services for LPA's project, and

**WHEREAS**, it is necessary that services as outlined in Exhibit "A" be added under this Supplemental Agreement, and

**WHEREAS**, it is necessary to increase Consultant's compensation by this Supplemental Agreement for the additional work necessary to complete the services under this Agreement, and

**WHEREAS**, LPA desires that this project be developed and constructed under the designation of Project No. TAP-89(35) and formally authorizes the signing of this Agreement, as evidenced by the Resolution of LPA dated \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, attached as Exhibit "C" and incorporated herein by this reference.

**NOW THEREFORE**, in consideration of these facts and mutual promises, the Parties agree as follows:

### **SECTION 1. SCOPE OF SERVICES**

Consultant will perform the additional work as set out in Exhibit "A", Scope of Services, and Exhibit "B", Consultant's Fee Proposal, attached and incorporated herein by this reference.

### **SECTION 2. NOTICE TO PROCEED AND COMPLETION**

- 2.1 State, on behalf of LPA, issued Consultant a written Notice-to-Proceed on June 5, 2026, only for Topographic and Right-of-Way Surveys, and Title Reports. Any work or services performed by Consultant on the project prior to the date specified in the written Notice-to-Proceed is not eligible for reimbursement.
- 2.2 Consultant will complete all work stipulated in the Original Agreement, and this Supplemental Agreement by June 30, 2028.

### **SECTION 3. FEES AND PAYMENTS**

Section 2 in Exhibit "C" of the Original Agreement is hereby amended in accordance with Exhibit "B" and as shown below.

## PROFESSIONAL SERVICES AGREEMENT – SUPPLEMENT

| Previous Amount* | This Supplement Amount | Amended Agreement Amount |                                            |
|------------------|------------------------|--------------------------|--------------------------------------------|
| \$ 6,088.60      | \$59,413.50            | \$65,502.10              | For actual direct labor costs              |
| \$12,609.42      | \$121,436.10           | \$134,045.52             | For indirect labor costs & direct expenses |
| \$ 2,096.18      | \$20,124.35            | \$22,220.53              | For a fixed fee for profit                 |
| \$20,794.20      | \$200,973.95           | \$221,768.15             | Total agreement amount                     |

\*includes all prior supplements

### **SECTION 4. CONFIDENTIAL INFORMATION**

Documents submitted to LPA, including invoices, supporting documentation, and other information are subject to disclosure by LPA under the Nebraska Public Records Act found at Neb.Rev.Stat. § 84-712 et.seq. Accordingly, Consultant shall redact or not submit to LPA information that is confidential, including, but not limited to, financial information such as social security numbers, tax ID numbers, or bank account numbers. Consultant understands that LPA does not have sufficient resources to review and redact confidential information submitted by Consultant. If such confidential information is submitted, Consultant shall have no right of action of any kind against LPA for the disclosure of such information.

### **SECTION 5. CONSULTANT CERTIFICATION AND REAFFIRMATION**

The undersigned duly authorized representative of Consultant, by signing this Supplemental Agreement, hereby reaffirms, under penalty of law, the truth of the certifications set out in the Original Agreement and all Supplements thereto, including this Supplement. Further, Consultant has a duty to inform LPA of any material changes in the accuracy of all assertions set out in the Original Agreement and all Supplements thereto.

### **SECTION 6. CERTIFICATION BY LPA**

By signing this Supplemental Agreement, I do hereby certify that, to the best of my knowledge, Consultant or its representative has not been required, directly or indirectly as an express or implied condition in connection with obtaining or carrying out this agreement to:

- (a) employ or retain, or agree to employ or retain, any firm or person, or
- (b) pay or agree to pay to any firm, person, or organization, any fee, contribution, donation, or consideration of any kind.

I acknowledge that this certification is to be furnished to the FHWA, upon their request, in connection with this agreement involving participation of Federal-Aid highway funds and is subject to applicable state and federal laws, both criminal and civil.

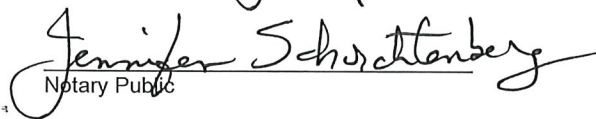
### **SECTION 7. ENTIRE AGREEMENT**

The Original Agreement, any and all other previous supplements thereto, and this Supplemental Agreement, constitute the entire agreement ("The Agreement") between the Parties. The Agreement supersedes any and all other previous communications, representations, or other understandings, either oral or written; all terms and conditions of the Original Agreement and all previous supplements thereto, to the extent not superseded, remain in full force and effect, and are incorporated herein as if set forth in their entirety.

**IN WITNESS WHEREOF**, the Parties hereby execute this Supplemental Agreement pursuant to lawful authority as of the date signed by each party. Further, the Parties, by signing this Supplemental Agreement, attest and affirm the truth of each and every certification and representation set out herein.

  
President

SUBSCRIBED AND SWORN to before me this 11<sup>th</sup> day of June, 2026.



CITY OF BLAIR  
Melinda K. Rump

SUBSCRIBED AND SWORN to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

STATE OF NEBRASKA  
DEPARTMENT OF TRANSPORTATION  
Form of Agreement Approved for  
Federal Funding Eligibility:

Page 3 of 3  
Agreement No. BK2349-003

## Consultant Work Order (Local Projects)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |                                                  |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------|---------------|
| Project No.:<br>TAP-89(35)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | Control No.:<br>22928                            |               |
| Consultant: (Name and Representative)<br>JEO Consulting Group Inc. / Jay Fallick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | Agreement No.:<br>BK2349-003                     |               |
| LPA: (Name and Representative)<br>City of Blair / Phil Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         | Work Order No.:<br>CWO#3                         |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | Constr. Change Order No.: (If applicable)<br>N/A |               |
| <p>All parties agree the following described work needs to be performed by the consultant as part of the referenced project. All parties concur and hereby give notice to proceed based on the following: justification to modify contract, scope of services, deliverables, schedule, and estimated total fee. All other terms of existing agreements between the parties are still in effect. It is understood by all parties that the work described herein will become part of a future supplement to the agreement indicated above.</p> <p>Justification to modify agreement: (Include scope of services, deliverables, and schedule)<br/>This consultant work order provides for topographic survey, right-of-way survey, and title reports.</p> |         |                                                  |               |
| Work Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | Summary of Fee                                   |               |
| Topographic Survey and Title Reports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         | A. Total Direct Labor Cost                       | = 6,187.92    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | B. Overhead (Factor * x A)                       | = 12,197.63   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | C. A + B                                         | = 18,385.55   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | D. Profit/Fee (Factor ** x C)                    | = 2,095.95    |
| *Overhead Factor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 197.12% | E. FCCM (Factor*** x A)                          | = 134.90      |
| **Profit/Fee Factor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11.40%  | F. Direct Non-Labor Cost                         | = 3,025.00    |
| ***Facility Capital Cost of Money (FCCM):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.18%   | G. Subconsultant Services                        | = 0.00        |
| Total Fee Notes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | TOTAL FEE: C + D + E + F + G                     | = \$23,641.40 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | <input type="checkbox"/> ESTIMATED TOTAL FEE:    | \$44,435.60   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | <input type="checkbox"/> FINAL TOTAL FEE:        |               |

### Work Order Authorization – May be granted by email and attached to this document.

**Consultant:**

|                |           |          |
|----------------|-----------|----------|
| Jay B. Fallick |           | 6/2/2026 |
| Name           | Signature | Date     |

**LPA:**

|      |           |        |
|------|-----------|--------|
|      |           | 6-2-26 |
| Name | Signature | Date   |

**LPS PC (for Preliminary Engineering) and State Rep. (for Construction Engineering):**

|      |           |      |
|------|-----------|------|
|      |           |      |
| Name | Signature | Date |

**LPS Unit Head Review (for PE Phase):**

|         |           |        |
|---------|-----------|--------|
| Kar Sia |           | 6/3/26 |
| Name    | Signature | Date   |

**LPS Manager or Construction Engineer (Construction Phase):**

|      |           |      |
|------|-----------|------|
|      |           |      |
| Name | Signature | Date |

**FHWA: (FHWA Approval on Full Oversight Projects Only):**

|      |           |      |
|------|-----------|------|
|      |           |      |
| Name | Signature | Date |

Notice to Proceed will be granted by email by:  
LPS PC for Preliminary Engineering & CD PC for Construction Engineering.

**FMIS Approval Date:**

6/2/26

**Notice to Proceed Date:**

6/5/26



## EXHIBIT "A"

### Scope of Services

Project Name River Road Connector Trail

Project No. TAP-89(35)

CN: 22928

Engineering Design Services

Text shown below that has been struck through (example) is not a part of this scope and has been left in this document simply as a place holder.

Upon receipt of notice to proceed from State and/or LPA, Consultant agrees to complete all the following services as part of developing construction plans that are ready for State's use in a bid-letting for this project.

### PROJECT DESCRIPTION

This project consists of 4,450 feet of new trail in the City of Blair, Washington County. The trail begins at the terminal of an existing trail on Grant Street, located approximately 360-feet west of the intersection with 5<sup>th</sup> Street, and extends east to 4<sup>th</sup> Street; thence north on 4<sup>th</sup> Street to River Road; thence east on River Road to the end of the project terminating at the existing trail located on the north side of Jackson Street. Construction may begin and/or end approximately 500-feet ahead of or beyond the actual project limits. The improvements on this project consist of constructing new 10-foot-wide trail, curb ramps, and drainage improvements. Additional improvements to be designed by others includes street lighting and railroad crossings.

### TASKS AND TASK ASSIGNMENTS

~~Projects located in the jurisdictional area of a Metropolitan Planning Organization (MPO) and has a Responsible Charge (RC) who is an employee of the respective Local Public Agency will manage the project. Nebraska Department of Transportation (NDOT) will manage the project and will act as the RC when located outside of the MPO.~~

It is anticipated the project will require the following major tasks:

- a. Environmental Documents and coordination (Design Consultant/NEPA Consultant)
- b. Project Management and Quality Control
- c. Preliminary Field Survey
- d. Right of Way Survey
- e. Roadway Design (including Right-of-Way Design)
- f. Hydrology and Hydraulic Design
- ~~g. Bridge Design and Concrete Box Culvert Design.~~
- h. The National Pollutant Discharge Elimination System/ and the Storm water Pollution Prevention Plan/SWPPP will be prepared by the NDOT's Roadside Stabilization Unit. The erosion control plans will be designed by the Design Consultant. NDOT's Roadside Stabilization Unit will submit the Notice of Intent, NPDES permit and the SWPPP.
- i. PS&E Submittals
- j. Project Meetings (Kick off meeting, Progress, Plan in Hand (PIH) meeting, Utility meeting, and Project Coordination meetings)

k. Public Involvement

l. ~~Geological Studies~~

### **APPLICABLE PUBLICATIONS**

**Overview:** Work shall be done in accordance with the most current version of the following materials. The most current versions of the NDOT materials can be obtained from the NDOT Website.

- 1) LPA Guidelines Manual for Federal-Aid Projects. NDOT April 2009
- 2) A Policy on Geometric Design of Highways and Streets 2018 (AASHTO)
- 3) Federal Emergency Management Agency (F.E.M.A.) National Flood Insurance, Flood Boundary and Floodway Map, and Flood Insurance Study (FIS)
- 4) Manual on Uniform Traffic Control Devices (FHWA), 2023 11th Edition
- 5) MUTCD - Nebraska 2011 Supplement to the MUTCD
- 6) Nebraska Minimum Design Standards – Counties, Municipalities, State - 2016 (or most current) (Nebraska Administrative Code Title 428; Rules and Regulations of the Board of Public Roads Classifications and Standards
- 7) Nebraska State Plane Coordinate System Datum Adjustment Computations Lambert Conformal System Manual
- 8) Roadside Design Guide, 2011 (AASHTO)
- 9) Standard Specifications for Highway Construction 2017 (or latest edition) (NDOT)
- 10) NDOT Hydraulic Analysis Guidelines for Consultant
- 11) NDOT Roadway Design Manual & Drainage Design and Erosion Control Manual
- 12) Bridge Office Policies and Procedures Manual
- 13) NDOT Geotechnical Policies and Procedures Manual
- 14) Uniform Relocation Assistance and Real Property Acquisition Act (the Uniform Act)
- 15) The NDOT Right-of-Way Manual.
- 16) Evidencing Nebraska Land Titles (Nebraska Land Title Association)
- 17) So you Want Access to the Highway (March 2008)
- 18) Access Control Policy to the State Highway System, 2006 or latest (NDOT)
- 19) Union Pacific and BNSF Railway Guidelines for Railroad Grade Separation Projects
- 20) Guide for the Development of Bicycle Facilities, 2024 (AASHTO)

### **SOFTWARE AND EQUIPMENT REQUIREMENTS**

1. The Consultant's design and drafting software and design files must be compatible with NDOT's design and drafting software. Information on NDOT's design

protocol can be found on NDOT's website on the Roadway Design page;  
<https://dot.nebraska.gov/business-center/design-consultant/>.

2. The Consultant's design must be accomplished using the design software OPENROADS but no version later than that in use by NDOT. The consultant's design must follow NDOT's drafting procedures, guidelines, and file naming convention using the appropriate version of OpenRoads format CAD software. Consultant's use of an earlier version of Bentley OpenRoads may be approved for specific activities with written permission of NDOT and at NDOT's sole discretion.
3. In many cases, projects will require that a 3D model be generated using Bentley OpenRoads technology.
4. Reports and documents must be submitted in a form compatible with Microsoft Office products unless otherwise directed.
5. The Consultant will provide all software and computer equipment required to complete the work including any analysis software required to perform the bridge design work.
6. The Consultant is required to complete work (CAD/OpenRoads files) within the ProjectWise environment. All project document submittals (non CAD/OpenRoads) are to be uploaded into the State's FTP site. Modeling files to be located within ProjectWise

#### **EXPECTATIONS FOR THE DELIVERABLES**

1. The consultant shall provide to NDOT acceptable final plans, specifications, and estimates (PS&E) for use in a bid letting and construction of the project. The Consultant shall seal and sign the final plans and applicable deliverables in accordance with the Nebraska Engineers and Architects Regulation Act. Consultant shall also provide to NDOT all applicable supporting documentation and reports as described in the Task Order.
2. Plans and special provisions shall be developed in compliance with the manuals, guidelines and specifications as listed in the Qualifications, Knowledge and Experience.
3. Consultant shall submit to the NDOT roadway design plans at the following stages, when applicable: before the plan-in-hand field inspection, before public meetings, at draft PS&E completion stage, and final PS&E package. Deliverables must be completed and submitted in accordance with the schedule set out in the Task Order.
4. Deliverables must be submitted in electronic form as outlined in the Task Order.
5. Submittals will be reviewed and approved by NDOT. Consultant shall address all issues raised by NDOT's review and make all necessary changes to the work.

#### **DESIGN PLAN PREPARATION AND ASSEMBLY**

**Overview.** These tasks are to develop design plans and assembly of design plans of items not shown in the Roadway Design section. Items to be included, but not limited to, can be found in the NDOT Roadway Design Manual under Highway Plans Assembly. These are the plans which will be let to contract; therefore, plans should be thoroughly checked for completeness, accuracy, and formatting by the design technician, the roadway designer, and other contributing parties.

**Drafting Procedures.** Consultants using MicroStation will follow the State's CADD drafting procedures and guidelines in preparing plans. File names must follow the State's CADD naming convention. Line weights, line styles, text size and leveling must follow the State's guidelines.

NDOT's CADD drafting standards do not apply for projects developed in AutoCAD, however, the Consultant shall make an effort to follow the State's CADD drafting procedures and guidelines in preparing plans.

#### **Format of Project Plans**

1. The Consultant shall prepare plan and profile plan sheets on a scale of 1" = 20' and "J" (enlarged detail) sheets on a scale of 1" = 50' (rural) or 1" = 20' (urban).
2. All full-sized plan sheets must be approximately 24" x 36". The border sheet information is on NDOT's website. All half-size plan sheets must be 11" x 17".
3. Any materials submitted to the State by the Consultant must be on equivalent to white bond.
4. Any material which does not produce an acceptable reproduction will be returned to the Consultant for rectification.
5. The Consultants shall follow the State's CADD Drafting procedures and guidelines in preparing the project plans.
  - a. Sheets must be set up according to the State's procedures.
  - b. File names must follow the State's CADD naming convention.
  - c. Line weights, line styles, text size and leveling must follow the State's guidelines.
6. The CADD files must also conform to the following standards and conventions:
  - (a) Working units must be:
    1. Master Units = Survey Feet (sf)
    2. Sub Units = inches (in)
    3. Resolution = 1000 per survey foot
    4. Accuracy = 0.1234
    5. Working Area = 813.442402 miles
  - (b) The Consultant shall tie the project into the State Plane Coordinate System using NAD 1983 for horizontal control. Consultant shall coordinate with the Geodetic Survey office for the Project Datum Adjustment Factor (DAF). Prepare all topography information in a MicroStation. Line weights, line styles, text sizes and leveling will follow NDOT's guidelines

#### **Format of cross-sections**

1. Plot all cross-sections. This includes labeling stations on the right side of the sheet, labeling existing and design centerline elevations at centerline and labeling offset distances every 5 or 10 feet at the bottom of each sheet.
2. Plot cross-sections on standard size sheets (same size as project plan sheets) according to the State's standards.



3. Stamp or plot in the upper right corner of each sheet the control number, horizontal and vertical scale. Plot the roadway cross-sections at the scale of 1" = 10' H & V, or 1" = 20'H & V.
4. Plot cross-sections with stations progressing upward from the bottom to the top of the sheet.
5. Plot the cross-sections so that there is room for the improvement cross-section. Do not overlap cross-sections.
6. Cut cross-sections at 100-foot intervals (maximum) and at other locations as needed.
7. Plot a cross-section at each location when there may be a drainage structure needed and at driveways, intersections, or other unusual features.
8. Plot drainage structure cross-sections and keep them separate from roadway cross-sections.
9. Plot drainage structure cross-sections at the following scales:
  - a. Storm Sewer 1" = 10' H & V.
  - b. Roadway Culverts 1" = 10' H & V.
10. Plot roadway cross-sections in the following manner:
  - a. Plot original ground with a dashed line.
  - b. Plot design template with a solid line.
11. Plan Sheets. The consultant will refer to NDOT Roadway Design Manual for a complete list of plans sheets to be included in the plan set. The Consultant will develop special plans. Standard plans are not included with the plan set, but a current up to date list of Standard Plans used for the project will be included to be placed on the Title Sheet.

## **The State or LPA Shall Provide:**

### **PRELIMINARY ITEMS**

1. As-built or design plans of the existing and adjacent roadways (if available).
2. Existing work already completed including traffic study, geotechnical report, and survey.
3. Any drainage studies completed in the area (if available).
4. Names of known utilities, addresses and permits listing use and occupancy permit data along the project.
5. Electronic files of current aerial photographs (if available).
6. Existing cadastral maps, plat maps, etc. electronic right-of-way files of the project area (if available).
7. Traffic count information. (NDOT)
8. Crash history for study corridor. (NDOT)
9. Detour route.
10. Section Corner Ties to corner monuments.
11. Existing benchmark information.
12. ROW negotiations and acquisitions.
13. Permit to occupy ROW (NDOT Form 19)
14. Local Public Agency (LPA) Project Programming Request (NDOT Form 530)
15. Probable Class of NEPA Action (NDOT 53) Form.

## **Consultant Shall Provide:**

### **I. PROJECT MANAGEMENT AND QUALITY CONTROL**

Coordination of Design Professional and Scheduling. The Consultant Project Manager will serve as point of contact, maintain project schedule and coordinate work of sub-Consultants

**THE CONSULTANT SHALL NOTIFY THE LPA AND NDOT OF ANY CHANGES MADE TO THE DESIGN OR PLANS AFTER THEY HAVE BEEN SUBMITTED TO AND/OR REVIEWED BY THE BOTH THE LPA AND STATE. SUCH CHANGES ARE DISCOURAGED, UNLESS THEY ARE IMPERATIVE OR AT THE REQUEST OF THE LPA AND/OR STATE.**

1. **Project Management.** This task includes activities to initiate and monitor project schedules, workload assignments and internal cost controls throughout the project. Also included are efforts to prepare and process invoices, prepare monthly progress reports and prepare project correspondence with the Responsible Charge (RC) and to NDOT and maintain project records.

2. **Project Description/ Purpose and Need/ Project Details:** The Consultant shall work with the NDOT and the NEPA Consultant when updates or corrections are needed to the existing approved corresponding documents. The Consultant are required to create and update these documents using Nebraska Environmental Document System (NEDS). Assume three (3) updates.

3. **Quality Assurance/Quality Control.** The Consultant will perform QA/QC checks at various stages of the project including prior to any official submittal.

## II. MEETINGS

1. **Plan-In-Hand Meeting** the Consultant will schedule and attend a plan-in-hand meeting to review the pre-PIH roadway design plans. (On-site meeting)
2. **Project Coordination Meetings** the Consultant will meet with the LPA and NDOT to discuss the status of plan development and coordinate design activities at different stages throughout the project. The consultant should anticipate **six** meetings (PCMs 20, 30, 35, 50, 70, and 90). The Consultant will be responsible for preparing meeting minutes.
3. **Project Coordination Meeting Forms** the Design Consultant will collaborate with the NEPA Consultant to complete their section of the PCM Forms. The Design Consultant will submit the completed PCM Forms to NDOT PC for review and finalized prior to each of the anticipated six scheduled meetings.
4. **Meetings with Utilities.** One virtual utility review meeting will be scheduled. Effort is also included for coordination via the phone and up to two total one-on-one meetings with affected utilities.
5. **Concept Level Plan Review.** The Design Consultant will meet with the LPA and NDOT to review the conceptual level of design a minimum of one month prior to the PCM 30 meeting.



### III. SURVEY

1. **Preliminary Field Survey.** The topographic survey will be completed by the design consultant for the project corridor in accordance with current NDOT survey specifications. The design consultant will perform the necessary topographical ground survey including the existing centerline, intersecting streets, and drives, tying the location of land monuments to the existing centerline, cross-sections, and profiles. A topographical survey will be performed using GPS and electronic "Total Station" technology in MicroStation \*dgn. format. Copies of field book records and electronic records will be submitted to the RC at the completion of final design. Natural topographic features and man-made features, will be recorded by coordinates to the nearest one-tenth (0.1) of a foot. All such topographic features, which are pertinent to the design or are necessary to properly show the effect of the proposed work upon the adjoining property and/or improvements, will be recorded. The topographical survey will not include an exact and detailed tree count. The consultant will complete a site visit after LOC's are created noting the size, type and location of trees to be removed. Station and offset will be noted on the plans. Unless otherwise noted the limits of the survey are to be from the edge of pavement to edge of pavement of adjacent streets and roads and at least 75 feet on the side of the adjacent roadway centerline where the proposed trail is located (unless noted otherwise), or to corners of structures on tracts and must include enough information to build the proposed typical cross-section and show the limits of construction. The survey limits will extend 100 feet before the start of the project and 100 feet beyond the end of the project. The topographic survey will extend along intersecting streets a minimum distance of 50 feet from roadway centerline.

The preliminary field survey will include the following areas:

- Grant Street, Project Beginning to 5<sup>th</sup> Street: Proposed trail could be on either side of the existing roadway. Field survey will include both sides of Grant Street and will encompass as area 50-feet each side of centerline.
- Grant Street, 5<sup>th</sup> Street to 4<sup>th</sup> Street: Proposed trail will be on the north side of the Grant with a potential crossing placed at the west leg of the intersection with 5<sup>th</sup> Street. Field survey will be on the north side of Grant and will be 75-feet from centerline.
- 4<sup>th</sup> Street, Grant Street to River Road: Proposed trail will be on the west side of 4<sup>th</sup> Street. Field survey will be on the west side of 4<sup>th</sup> Street and will be 75-feet from centerline.
- River Road, 4<sup>th</sup> Street to Project Ending at Jackson Street: Proposed trail will be on the north side of River Road. Field survey will be on the north side of River Road and will be 75-feet from centerline.
- Intersection of Jackson Street and River Road: Proposed trail may require a portion of the existing trail to be reconstructed. Field survey will encompass the entire intersections and extend 50-feet east and west along Jackson Street.

**2. Digital Terrain Model.** A Digital Terrain Model will be provided for use in cross-section creation. Natural topographic features and man-made features above ground (including existing adjacent building limits) will be recorded. All above and below ground utilities will be located once Digger's Hotline marks them. Sanitary and storm sewer manholes will have rim and flow line elevations surveyed.

**3. Base Map Preparation.** Consultant will create the base maps using the topographic survey data.

**4. Horizontal and Vertical Control.** The design consultant will establish control points along the project corridor at regular intervals and provide control "reference" point ties to topographic features of permanent nature.

- a) Horizontal control points will be established and referenced to existing section corners. The control points will be permanent in nature and tied to Nebraska State Plane Coordinate system.
- b) Vertical control points will be established and referenced to USGS NAVD88 datum. There will be a minimum of three permanent benchmarks established with additional temporary benchmarks set along the project corridor at intervals not to exceed 500 feet.

**5. Section/Property Corners.** The consultant will locate necessary section corners, quarter section and property corners for use in drafting existing right-of-way and property lines. The Consultant will work with the County Surveyor on any corners not found to be set by the County Surveyor.

**6. Existing Utilities.** The consultant will call in a One-Call utility locate ticket. Utilities will be shown based on visible, above ground, evident in the field and utility locator's markings. The project liaison will assist in providing utility locations and contact information.

**7. Note Reduction/Preliminary Plotting.** This task will include the effort for gathering data to create the existing topography file to use for preliminary design. Placing station offsets for all topographic items.

**8. PIH Staking the Right of Way.** For the PIH field visit the Consultant will stake new and existing right of way, assume twelve (12) tract (s):

**9. Negotiations Staking the Right of Way.** During the negotiations, the Consultant will stake new and existing right of way, assume six (6) tract (s).

**10. Staking Right of Way for Condemnation Hearing.** ~~(Will be handled as a Supplement to this contract)~~ The Consultant will stake the new and existing right of way prior to the Condemnation Hearing so the Board of Appraiser's can view the proposed taking (to include temporary and permanent easements), assume \_\_\_\_\_ tract (s).

**11. Condemnation Plats.** *(Will be handled as a Supplement to this contract)* The Consultant will prepare condemnation plats. The plat is a unique plan sheet showing the condemned tract along with the metes and bounds reflected in the legal description. A reduced drawing of the section(s) and how the tract in question is situated in that section is also included as part of the plat. Emphasis should be made to keep the plat(s) to a manageable size yet easily readable. A CADD file of the condemnation plat and an electronic version of the legal descriptions will also be submitted, assume \_\_\_\_\_ tract(s).

**12. Condemnation Hearings.** *(Will be handled as a Supplement to this contract)* The Engineer is to attend the Condemnation Hearing to provide an expert opinion regarding the need for the taking, assume \_\_\_\_\_ tract(s).

ROW staking should be done to clearly and accurately represent information that is illustrated on the ROW plans. When a tract requires ROW staking the following items should be staked:

1. Existing ROW
2. Existing Control of Access.
3. Existing Control of Access Breaks.
4. Existing Permanent Easements (except utility easements are generally not staked).
5. New ROW
6. New Permanent Easements
7. New Temporary Easements.
8. New Control of Access Breaks

For each line the ROW staking should at a minimum include the staking of points at the following:

1. The ends of each line.
2. Their intersection with a property line.
3. Their intersection with lot lines, section, quarter section line, etc.
4. Any deflection points within the line (turn points).
5. If a line involves a long straight run interim stakes along the line should be placed as needed to clearly denote the line in the field.
6. Any critical points along a line such as the portion coming close to a significant feature such as a structure, center-pivot, well, etc.
7. The stakes should be clearly visible in the field and denote the type of line(s) it is representing. Information to be included on the stakes include.
8. A color identification (surveyors' tape and/or paint) unique to the type of line. Generally, Orange for ROW and Yellow - Green for easements.
9. The line designation (ROW, PE, TE, CA, etc.)
10. The distance to Centerline.
11. The Station

See NDOT's Construction Manual for additional ROW staking information.

#### IV. PRE-PIH ROADWAY AND ROW DESIGN PLANS

**Overview.** The following task will be used to accomplish Roadway Design and in the development of design plans. This task includes roadway design services during the Plan-in-Hand phase.

The Design shall be in conformance to "Nebraska Minimum Design Standards" for New and Reconstructed Projects, 3R Standards (Resurfacing, Restoration and Rehabilitation) and the "NDOT, Standard Specifications for Highway Construction". Reference to local standard plans and specifications is not allowed, such plans and specifications must be included within the PS&E package as special plan sheets or special provisions.

The consultant is to make every effort to use NDOT standard items, standard plans, and products from the NDOT approved product list in the design of the project. Items unique to the project and not on the standard item list, will need a special provision stating the method of construction, the unit of measure, and method of payment. Specialty items not on the approved product list will require the consultant to provide a list of 3 or more products/suppliers and an "or approved equal statement". Approval by NDOT is needed before the item may be incorporated into the project.

| Factors Affecting Roadway Design Data Effort (edit as necessary)                    | Occurrences and Complexities                                                                                             |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Project Length:                                                                     | <u>4,450 linear feet of trail</u>                                                                                        |
| Meeting Minimum Design Standards                                                    | <u>PROWAG</u><br><u>Guide for the Development of Bicycle Facilities, 2024 (AASHTO)</u>                                   |
| Multiple alignments (side roads)                                                    | <u>5 total alignments</u>                                                                                                |
| Curb & flume (new, repair, or replacement)                                          | <u>N/A</u>                                                                                                               |
| Drives and intersections (typically not modeled on 3R jobs unless new or modifying) | <u>Trail crossings of drives and intersections would be evaluated for ADA compliance and reconstructed as necessary.</u> |
| Culvert work (new, extensions, replacement)                                         | <u>One drop structure and one culvert extension is anticipated.</u>                                                      |
| Special ditches                                                                     | <u>4 locations</u>                                                                                                       |



|                                                                                       |                                                                                                        |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Right turn lanes (new or modifying)                                                   | <u>N/A</u>                                                                                             |
| Construction phasing including temporary surfacing/grading, contractor crossing, etc. | <u>Potential temporary trail surfacing at tie-in to existing trail on north side of Jackson Street</u> |
| Other complex designs (roundabouts etc.)                                              | <u>Coordination with Union Pacific Railroad related to the at grade crossings of two rail lines</u>    |

1. **Horizontal/Vertical Alignments:** This task includes effort to create any vertical alignments, produce required Horizontal Alignment Sheets, etc. The Consultant will create the existing Control Point/PI/Curve Data Sheet(s), Tie Sheets (from NDOT's tie sheets) as well as any Horizontal Alignment and Orientation on any design alignments. This task involves eight (8) Horizontal Alignment Sheets ("F Sheets").
2. **Plan and/or Profile Sheets:** This task includes effort to provide Plan/Profile or Plan/Plan Sheets. This task involves eleven (11) Plan Sheets ("L Sheets").
3. **Template Roadway Cross Sections.** Develop the design templates necessary to template the cross sections, including design of special ditches. This task involves twenty one (21) Roadway Cross-Section Plan Sheets ("X Sheets").
4. **Limits of Construction.** This task includes efforts to create LOCs for the project. The Consultant will define and draft the limits of construction on the plan sheets. These limits are to be used to determine environmental impacts and right-of-way requirements.
5. **Earthwork.** Determine earthwork balance factor. Process the earthwork for each alignment, including any extra earthwork due to large driveways, guardrail, or any other cause for earthwork. Calculate earthwork quantities and produce earthwork summary and plan notes. This task involves two (2) Earthwork Data Sheets ("Q Sheets").
6. **Roadway Geometric Design.** This task includes the geometric design of all Roadway alignments, intersections, driveways, parking lot reconstruction, sidewalks, and pavement transitions, which includes setting up all the geometric sheets for the project and labeling. This task involves four (4) Geometric and Grade Sheets ("J Sheets").
7. **Storm Sewer and Drainage:** This task includes hydrologic and hydraulic analysis for design of the new storm sewer system for the new and reconstruction portion of the project. This would include hydrologic review to determine drainage areas and discharges to the roadways for multiple storm events; development of a hydraulic model;

identification of outlet storm sewers or drainage ways; and required improvements to outlet storm sewers or drainage ways. The storm sewer design will review the 10-year storm event to determine if a reasonable and practical storm sewer system can be provided to meet the current criteria. If it is determined that it is not practical to meet a 10-year storm event, a practical design approach will be used to determine a reasonable design that meets or exceeds the capacity required to convey a 2-year design storm. The design of the storm sewer will be developed in a manner to accommodate phased construction of the project that will maintain existing roadway drainage while providing outlets for the new storm sewer being constructed. This work also includes of drainage plans and storm sewer profiles. Storm sewer design will be based upon the new and reconstruction urban segment. This task involves one (1) Drainage Sheets ("J Sheets") and one (1) Drainage Cross-Section Plan Sheets ("R Sheets").

8. **Roadway and Driveway Culverts.** This task is for roadway and driveway culverts and includes the preparation of a drainage map outlining all drainage areas and completion of the following for each area. This task involves one (1) Drainage Sheets ("J Sheets") and one (1) Drainage Cross-Section Plan Sheets ("R Sheets").NDOT's Pipe Policy will be followed.
  - a. Compute area size and Q.
  - b. Determine allowable H.W.
  - c. Size culvert and compute H.W.
  - d. Using design cross sections, determine length of culvert.
  - e. For each culvert, show the Station, D.A., Q., H.W., Size and Length.
  - f. Determine location of new/existing culverts with special ditch locations
  - g. Draft culvert build notes
9. **Construction and Removal.** Development of Construction and Removal notes detailing construction and removal items not specifically identified elsewhere in this scope. NDOT CAD standards and construction/removal notes/tabs are to be used. This task involves eleven (11) Construction & Removal Sheets ("J Sheets").
10. **Utility Coordination/Verification.**
  - a. **Utility Rehabilitation Sheets:** This task includes effort to develop Utility Rehabilitation Sheets displaying existing utilities, relocation plans generated by others, utility owners, facility type, and all applicable Subgrade Utility Engineering data for purposes of coordination with NDOT Utility Section and providing information during the construction phase. This task involves eleven (11) Utility Rehabilitation Sheets ("K Sheets"). When this section is utilized, the Utility Rehabilitation Sheets will replace the Existing Utility Plans being submitted at the Design and Plan Detail Phases.
  - b. **Utility Conflict Memo and Plans:** This task includes effort to complete the Utility Conflict Template identifying locations where existing utilities will be impacted by construction efforts. This Template will be utilized by the Consultant to coordinate with respective Utilities and provide subsequent relocation plans. ~~A copy of the Utility Rehabilitation Sheets with conflicts clearly identified will accompany this submittal.~~ This Template will be updated when project changes occur that

remove or add conflicts.

- ~~11. Construction Phasing/Detour Route/Temporary Roads.~~ The Consultant shall develop traffic phasing concepts to allow for reasonable access during construction for highway and local traffic that may include detours and staging of construction. The Consultant shall prepare a written description of the Construction Phasing, noting detour routes if applicable. This phasing plan shall be submitted at the time of the first submittal. This task involves (0) Phasing Sheets ("H Sheets").
12. **Erosion Control.** This task includes effort required to design and draft both temporary and permanent erosion control measures for the project. The consultant will submit the erosion control plans to the LAD of NDOT for review and concurrence by NDOT Roadside Stabilization Unit. This task involves eleven (11) Erosion and Sediment Control Sheets ("J Sheets").
13. **Quantities/Estimates.** Develop and tabulate all the preliminary quantities. Computation sheets will be submitted with all Quantities to the RC and/or the LAD of NDOT for all submittals, including Pre/Post Plan-in-Hand and Final Plans, using NDOT standard bid items, NDOT Project Information sheet (NDOT Form 342), and NDOT quantities forms (NDOT Form 343 and NDOT Form 355). In addition to these submittals, opinion of probable cost will be updated and submitted yearly (**January 31**) throughout the preliminary engineering and final design phases. Estimate of probable cost will be prepared by the Consultant using recent bid tabulations and other available information. Task assumes three (3) updates/submittals.
14. **Typical Sections.** This includes design and drafting the typical cross sections and other details as needed for the project. This task involves two (2) Typical Cross Sections ("B Sheets").
15. **E Sheets.** This task includes developing the wetland aerial plan sheets ("E" Sheets) from the ortho. This task will include effort to illustrate and label wetlands, restricted areas, channels, alignments, impacted areas, reference files, and other wetland features. This task includes effort to illustrate sensitive areas including, but are not limited to, 4(f) properties, Section 106 sites, and T&E areas. This task involves eleven (11) Environmental or Aerial Sheets ("E Sheets").
- ~~16. ——— Guardrail.~~ This task includes effort to analyze potential guardrail locations and design new guardrail at locations that do not meet current standards or are affected by other elements of the project. Guardrail will be designed to meet current NDOT standards unless justified by an accepted design as governed by the current Roadside Design Guide. There are approximately (0) locations of W-beam guardrail and (0) installations of cable guardrail. This task involves (0) Special Plan Sheets ("U Sheets").



**17. Floodplain Permit** if a Floodplain Permit is required, The Design Consultant will certify the project construction occurring in a floodplain, whether crossing or parallel, complies with floodplain regulation:

State Minimum Standards require, when construction occurs in Base Floodplains, it does not increase, cumulatively, the floodplain base flood elevation more than one foot (1').

State Minimum Standards require, when construction occurs in floodways, it does not increase the base flood elevation any amount.

The Consultant is to provide a Certification of Compliance for each floodplain encroachment utilizing the Certification of Compliance Form. NDOT will provide Certification of Compliance for all floodplain crossings involving bridge-sized structures.

The Consultant is to provide a Floodplain Certification Memo which includes an abbreviated project description, including beginning and ending locations, project activities that will occur, floodplain locations and impacts (if any) to floodplain base flood elevations. (NDOT can provide template and examples for the floodplain certification memo.) This memo will be sent to the Consultant Coordinator and will not be placed on OnBase by the Consultant.

**18. Plan-In-Hand Report.** The Consultant will prepare and submit a draft Plan-in-Hand report within two (2) weeks of the meeting summarizing the findings and decisions made regarding the project design. The draft PIH report will be submitted and routed for review and comments. The consultant will address the comments (within 2 weeks) and submit the final PIH report.

**19. Working Day Calculations.** Working Days for construction activities will be calculated at the Plan in Hand plan stage and incorporated into the draft PIH report and updated at the Draft Final PS&E plan stage.

**20. Pavement Determination.** The Consultant shall provide complete documentation of the structural pavement design analysis used for the project. The pavement analysis must be a nationally recognized method, such as AASHTO, AIM, PCA, etc. The Pavement Determination Data Sheet (supplied by NDOT) shall be completed by the Consultant and included as part of the documentation

#### **Deliverables**

- a) Meeting Minutes for all meetings to be summarized emailed to the Client, NDOT and applicable stakeholders within (2) days of meetings.
- b) Hydraulic Report and Data Sheet
- c) Deliverables for the Plan-in-Hand Phase include:
  - i) Preliminary Waterway Permit Data Sheet, NDOT Form 290
  - ii) Erosion Control Plan-in-Hand Checklist, Exhibit G of the NDOT Roadway Design Process Outline (DPO), if applicable
  - iii) FAA Form 7460-1 when applicable
  - iv) Plan-in-Hand Plans
  - v) Project Information Sheet, NDOT Form 342



- vi) Project Quantity Sheet, NDOT Form 343E
- vii) Draft Plan-in-Hand Report (pdf format)
- viii) Plan-in-Hand plans with comments consolidated on one set
- d) Final Plan-in-Hand Report (pdf format)
- e) ~~Plans/display showing project in relation to mapped floodplains/floodways, if applicable~~
- f) Opinion of Probable Construction Cost
- g) Construction and working day estimates
- h) Updated project description, project details, and purpose and need as necessary (using Nebraska Environmental Document System (NEDS))
- i) ~~Pavement Determination~~
- j) Working Day Calculations
- k) Cost Estimates
- l) KMZ file at each plan submittal
- m) Utility Call Reports or equivalent documentation

Refer to last page of this Scope of Services for detailed list of required plan sheets at each phase of project.

#### V. POST PLAN IN HAND PLANS

1. **Post Plan in Hand plans** incorporate review comments needing revisions identified during the plan in hand and serves as a mid-point check of the design. Task assumes ten (10) total sheets will need revisions.
2. **Post Plan in Hand Plan Submittal** plans with the limits of construction are to be submitted to the LAD PC at the completion of the post plan in hand design.

#### VI. DRAFT PS&E SUBMITTAL PLAN REVIEW

NOTE: upon receipt of the Draft PS&E Plans on projects NDOT has assumed the duties of the Responsible Charge (typically projects located outside of MAPA and LCLC) the NDOT's Right of Way Division will prepare the ROW Cost Estimate.

1. **Incorporate review comments** the Consultant will address and incorporate review comments from the Post Plan in Hand Plan review. Task assumes twelve (12) total sheets will need revisions.
2. **Draft PS&E Submittal** the Consultant shall submit a draft PS&E package, to the Project Liaison and LAD PC for final review. The package will include the plan set and total project quantities.

The only revisions to the Draft PS&E plans would be modifications resulting from right of way negotiations and/or NDOT Division Reviews.

## VII. FINAL PS&E SUBMITTAL/BLUE LINE CORRECTIONS

1. **Final PS&E Submittal.** Upon incorporating review comments into the plan set and special provisions, the Consultant shall prepare and submit all drawings, special provisions, and an estimate of quantities to the LAD Project Coordinator for the final PS&E review. The completed PS&E plans to be submitted by the Consultant shall include the following:
  - i. ~~Electronic Plan Data for the Contractor:~~
    - i. ~~Slope staking information at locations where grading is to be completed to flatten slopes, construct guardrail and mailbox turnouts, and construct new erosion control curb and flumes. The Consultant shall provide the State with samples of these items for approval of the formats and information. Final construction information to be submitted as directed by the NDOT Project Coordinator.~~
    - ii. ~~Subgrade and finish grade information for new construction (previously blue tops and paving grades).~~
2. **Address comments or questions** during PS&E Review this includes the effort of addressing any questions or comments that arise during the PS&E review. And making corrections per PS&E Comments (not to include errors or omissions), this includes corrections based on PS&E comments that make the plans biddable (bluelines).
  - i. After PS&E corrections, the Consultant shall upload all electronic CADD files into ProjectWise and create a zip file containing the Electronic Plan Data, to be uploaded into OnBase - NDOT RD Construction Model. Electronic Plan Data to be provided per NDOT's "Modeling Design Guidelines" available in OnBase.
3. **Electronic CADD files** Roadway Design will provide a Basic Digital Package For Information Only (FIO) for all non-maintenance project types. This package will include many of the same digital elements NDOT previously provided post-letting, along with a few additional items, but it will be delivered prior to letting. For pavement replacement or wetland mitigation project types, Roadway Design will provide a Detailed Digital Package FIO, which includes the Basic Package plus 3D elements such as 3D linestrings and pavement surfaces. Additional guidance on these packages can be found in the Standard Operating Procedures for Delivering Models and Digital Data For Information Only on NDOT Projects, available on both the Digital Project Delivery and Design Consultant Information webpages.
4. **Printing** this includes effort to print and resubmit any sheets that change based on PS&E comments (not to include errors or omissions).
5. **SWPPP** ~~When required by the NPDES Construction Stormwater Permit,~~ the Consultant shall provide a Stormwater Pollution Prevention Plan (SWPPP) for the project. The SWPPP must be developed using NDOT's SWPPP template that will be provided by the Roadside Stabilization Unit. The Roadside

Stabilization Unit will complete a redline review of the SWPPP and Erosion Control Plans. The Consultant shall incorporate comments received from the Roadside Stabilization Unit prior to delivery of the final documents.

6. **Letting Task**

- a. Answering questions received from Contractors during Letting Phase
- b. Supplying Information to NDOT for preparing addendums (*will be supplemented with future contract if needed*)
- c. Supplying information to NDOT for bid analysis.
- d. Shop drawing review/approvals (*will be supplemented with future contract if needed*)

**DELIVERABLES FOR FINAL PLANS (PS&E) PHASE INCLUDE**

- a. Opinion of Probable Construction Cost
- b. Two full-size sets of Final Plan electronic files
  - a. Prelim. Stamp OFF/Seal OFF  
("12345 Roadway Prelim Plans" and "12345 Roadway Prelim Cross Sections")
  - b. Prelim. Stamp OFF/Seal ON and signed  
("12345 Roadway Final Plans" and "12345 Roadway Final Cross Sections")
- c. Project Information Sheet, NDOT Form 342
- d. Project Quantity Sheet, NDOT Form 343E
- e. Summary of Quantity Sheets, NDOT Form 355
- f. ~~Guardrail Summary, NDOT Form 195~~
- g. Summary of Quantities and Locations of Surfaced Driveways/Intersections
- h. Table of Drainage Summary Items, "Horse blankets"
- i. Length Sheet, NDOT Form 415
- j. PS&E Required Sheet, NDOT Form 280
- k. Grading Item Summary, NDOT Form 64E
- l. Special Provisions (word format)
- m. Standard Plan listing
- n. Special Plan listing
- o. ~~Certification of Compliance, NDOT Form 366~~
- p. ~~Floodplain Certification and Permit (If applicable)~~
- q. Construction and working day estimates

**VIII. RIGHT-OF-WAY DESIGN SERVICES**

**Overview:** The following tasks will be completed to establish the existing Right-of-Way and to design the proposed Right-of-Way. The consultant will complete and submit title research, legal description, and ROW plans.

**Qualifications, Knowledge and Experience.** The Services must be completed by, or under the direct supervision of a registered abstractor who is qualified and in good

standing to complete the Services in Nebraska. Consultant must be knowledgeable and have substantial experience completing Services of this type.

**Software, Equipment, and Submission Requirements.** Title researcher will be responsible for providing all necessary equipment, supplies, materials, and software to complete the Services. The Certificate of Title reports shall be signed, converted to pdf format and submitted in readable electronic form. Supporting documents shall be submitted in pdf, jpeg or tiff format. All deliverables shall be submitted using the specified file naming convention.

**Format of Right-of-Way plans** The Consultant shall submit all Right-of-Way plans as half-size plans plotted at the appropriate scale. They must measure the standard 11"x17" paper that is used in any normal Xerox machine. The margins must measure as follows: left margin must be approx. 1-inch, right margin must be approx. 5/16 inch, and the top and bottom margins must be approx. 3/8 inch. The border used must be the one supplied with the ROW cell file. It measures approximately 15 5/8 inches x 10 3/8 inches when plotted at 1" = 200' scale. The scale of the ROW plan sheets will match the scale of the roadway plan sheets. Any materials submitted to the State by the Consultant must be on or equivalent to white bond. Any material, which does not produce an acceptable reproduction, will be returned to the Consultant for rectification. The Consultant shall follow the State's "CADD Drafting procedures and guidelines" in preparing the project plans. Sheets must be set up according to the State's procedures. File names must follow the State's CADD naming convention. Line weights, line styles, text size and leveling must follow the State's guidelines. The CADD files must conform to the following standards and conventions:

Graphic elements must be placed in accordance with the State MicroStation Right-of-Way element attributes standards. Working units must be:

1. Master Units = Ft
2. Sub Units = 1000 TH
3. Position Units = 1

File names must use State CADD naming convention.

**Data Transfer** It shall be the Consultant's responsibility to obtain the necessary software to translate to and from the specified format for all electronic files supplied by the State and for all electronic files prepared by the Consultant and supplied to the LPA/State. The State and the Consultant shall transfer all Graphic files in a MicroStation dgn. Format. A data sheet must accompany all electronic file submittals listing the file names and detailing the method of placement so the State will know how to restore the data in our system. All computer files shall be provided on either compact disk (CD) or loaded to State's FTP site unless otherwise specified. The State will provide instructions and password for FTP site with final contract documents.

- 1) **Existing Right-of-Way Base.** This task involves certified title research including collecting the Plat drawings, reviewing property titles, reviewing survey data, and other



necessary information to establish the existing Right-of-Way, including easements, for the properties abutting the project. Title Searches to be completed by a certified abstractor. Ownership plans will be developed from this information and the consultant will have this task completed prior to the plan-in-hand meeting.

- 2) **Proposed Right-of-Way.** The Consultant will determine the easements (temporary and permanent) and right-of-way required to construct the project. It is estimated that there will be up to eleven tracts associated with this project.
- 3) **Right-of-Way Plan Sheets.** The Consultant will prepare right-of-way plan sheets to include in the plan set. The sheets will include existing property lines and all proposed right-of-way ownerships, easements and takings will be tabulated and shown on the sheets. Tract Maps with all legal description will be provided by the Consultant. This task involves eleven (11) Right of Way Plan Sheets ("W Sheets").
- 4) **Title Research.** All title research services will be completed in compliance with the Uniform Relocation Assistance and Real Property Acquisition Act (the Uniform Act) and with the NDOT Right-of-Way Manual. The Services must be completed by, or under the direct supervision of a registered abstractor who is qualified and in good standing to complete the Services in Nebraska. Consultant must be knowledgeable and have substantial experience completing Services of this type. The State will provide instructions and password for FTP site with final contract documents. Consultant will be responsible for providing all necessary equipment, supplies, materials, and software to complete the Services. The Certificate of Title reports shall be signed, converted to pdf format, and submitted to State in readable electronic form. Supporting documents shall be submitted in pdf, jpeg, or tiff format. All deliverables shall be uploaded to an ftp site specified by State using State's file naming convention.
- 5) **Permit to occupy right of way** Projects encroaching on NDOT right of way (utilities, drainage structures, grading, etc.) need to be permitted by the NDOT District Construction office. At the Plan in Hand Plan design stage, NDOT will assist the LPA/LPA's with contacting the District Engineer or Permits Officer to determine if a permit or permits are needed.

All requests for permitted access shall first be submitted to the District Engineer in whose District such access lies. Requests must be submitted on standard access permit application form available from the Department (NDOT Form 19). The consultant shall provide the following items to the RC for evaluation of encroachments or an access application or the construction of an access:

1. Highway and access plan and profile.
2. Complete drainage plan of the site showing impact to the highway right of way.
3. Map and letters detailing the utility locations before and after development in and along the highway.
4. Subdivision zoning and development plan. These should be coordinated with the local officials and their comments should be included with the application.

5. Property map indicating other accesses and abutting public roads and streets, including those on the opposite side of the highway.
6. Proposed access design details, such as, ADA requirements, or wetlands.
7. A Traffic Impact Study, if required.

The District Engineer will make appropriate comments and forward the application together with the plans and other supporting data to the LADS PC/RC who will coordinate with the Right of Way Division for issuance of the permit.

**ROW Deliverables at the Post Plan in Hand Design Stage.**

- a) The title researcher shall review the title research study area ("Study Area") and search the County real estate records to identify each separate parcel of land located within the Study Area. A separate parcel of land is all contiguous land owned by the same owner and held in the same title (e.g., sole owner, joint tenants, tenants in common, etc.).
- b) The title researcher shall provide a copy of the title-vesting document for the current owner of each parcel of land in the Study Area.
- c) The title researcher shall list all owners of record of the parcel within the preceding 5-years and include a copy of each additional instrument conveying title to each owner identified.
- d) Title researcher shall provide a Certificate of Title Report for each parcel within the study area. This Title Report shall be on the State's approved Certificate of Title Report form (or a preapproved form) to report such information. Each Title Report shall also include the following information:
  - i) The name of the current parcel owner(s) and how the title is held, exactly as shown on the title vesting document(s).
  - ii) The owner's mailing address as shown in the County Assessor or Treasurer's records.
  - iii) If the owner of record is known to be deceased, the Case Number of the Deceased's Probate along with the name(s) of court appointed Personal Representative(s) if available.
  - iv) Active Mortgages, Deeds of Trusts, and other financing documents, and any assignments of such documents.
  - v) Active liens, agreements, conditions, limitations, restrictions or covenants affecting title.
  - vi) Easements such as private water, sewer, ingress/egress (access), cell towers, flood, and irrigation or others that encumber or restrict the use of the land. Consultant should not provide easements for public utilities (water, sanitary sewer, power, gas, cable, telephone, and telegraph).
  - vii) All recorded leases except oil and gas leases.
  - viii) List the document recording information for each record listed in the title report to include the date of record and instrument number.
  - ix) The legal description for the subject parcel of land.
  - x) Comments the abstractor believes are necessary for a full understanding of the information reviewed for the parcel.
  - xi) Name, signature, and license number of abstractor and title effective date.

- e) Provide copies of all supporting documentation (deeds, easements, etc.) that are listed in the title report in an electronic format type using the document naming convention as specified. Consultant should not provide copies of the active mortgages, deeds of trust or assignments that are listed on the Title Report.
- f) If applicable, Consultant shall provide copies of subdivision plats and surveys of irregular tracts and tax lots with metes and bounds field notes.
- g) Provide copies of deeds, easements, dedications, plats, etc., for any property acquired by or conveyed to governmental entities.
- h) Provide copies of County Cadastral Maps in counties that do not have a GIS website.

Title Report and Supporting Document Naming Convention. For each parcel - two separate electronic files must be submitted as detailed below:

1. For each parcel - One electronic file containing the Title Report
2. For each parcel - One electronic file containing all supporting documents. This file should include all documents as specified under the above ROW Deliverables at the Post Plan in Hand Plan Stage.
3. For each electronic file - file names should be simple, easy, and logical. File names should include last name of private owner or first name of company.

#### Examples of File Names

| Vesting Owner             | Title Report File Name | Documents File Name        |
|---------------------------|------------------------|----------------------------|
| Joe Smith                 | Smith TR               | Smith Documents            |
| Lincoln Methodist Church  | Methodist Church TR    | Methodist Church Documents |
| MSD LLC                   | MSD TR                 | MSD Documents              |
| Sam Jones and Doug Peters | Jones TR               | Jones Documents            |
| AJ Brown Auto Body        | Brown TR               | Brown Documents            |

The Consultant is to submit a geographically oriented base file in MicroStation \*.dgn format showing the following information for the entire project. Files may be submitted in one file or in reference files, all necessary reference files need to be in the submittal.

- Surveyed Topography
- All construction items (feature file)
- Limits of construction.
- ROW Survey (section corners, lot corners, etc.)
- Ownership information (property lines, owner names, lot numbers, lot lines, tract numbers, etc.)
- ROW Design (new ROW, PE's and TE's)



- ROW patterning (if placed in the base file)
- Air photo if used

On Projects that NDOT is acquiring ROW, the consultant shall submit a kmz file.

### Prepare, Right of Way Cost Estimate

**Overview** NDOT will prepare the ROW Cost Estimate on projects located outside of the Metropolitan Planning Organizations (MPO) of Metropolitan Area Planning Agency, Omaha (MAPA) and of Lincoln City Lancaster County (LCLC). If project is within an MPO, ROW Cost Estimate will be completed by the LPA as detailed below.

If an LPA in MAPA or LCLC elect to outsource preparation of the ROW Cost Estimate, they may do so provided the ROW Cost Estimate is prepared by a real estate professional knowledgeable of land values in the area of the project and the ROW Cost Estimate is prepared using the following criteria.

**ROW Cost Estimates** should include an estimate of the current value of the takings, any damage costs, incidental costs (such as appraisal fees, negotiator fees, title fees, etc.), relocation expenses, possible condemnation costs, and demolition fees, (ROW Cost Estimate form PA-4).

The following items are required in the estimate:

1. ~~Land Value~~—The land value for all fee takings and easements shall be calculated on a square foot cost basis in urban areas and by the acre in rural areas. Each tract shall be evaluated as to zoning and type of use, such as business, residential, and public use. Not all tracts will be valued at the same square foot price.
2. ~~Damage Costs~~—Damage costs must be determined for each tract. These will include cost to cure items and damages to the remainder of the property.
3. ~~Relocation Costs~~—Any residential properties or businesses that will be acquired, as part of the project needs to be included in the ROW Estimate. The estimated value of the home or business and the additional relocation costs (relocation payments to the owner, tenant, and Consultant fees) for each tract will be identified on the Estimate as Relocation Costs.
4. ~~Administrative Costs and Incidental Expenses~~—These costs will include the fees for the Appraisal, Appraisal Review, and Consultant negotiation fees. An incidental cost should be included for each tract on the project if the LPA is hiring ROW Consultants.
5. ~~Demolition Contracts~~—should also include any costs associated with hazardous materials removal.
6. ~~Advertising Sign Cost~~ if applicable
7. ~~Condemnation Costs/Administrative Settlements~~—indicate the anticipated percent of parcels affected by either condemnation costs or administrative settlements.

The ROW Cost Estimate includes the cost to research and acquire the right-of-way for the project, including easements. It includes the right-of-way costs for storm water



management, wetland mitigation, and other work outside of the roadway prism. Contractual obligations with property owners to relocate fencing, reconstruct gates, relocate sprinkler systems, etc. are a ROW cost and are not to be a construction item.

The cost to repair sprinkler systems on public right-of-way is ineligible for federal participation. However, Local Public Agency policies may provide local funding to repair underground sprinkler systems located in the public ROW and damaged by a public project.

The cost to repair sprinkler systems on public property is ineligible for federal participation. However, Local Public Agency policies may provide for local funding to repair underground sprinkler systems located in the public ROW and damaged by a public project. The ROW Cost Estimate is to note if local funding is available and the estimated cost of repair of the system in the public right of way.

If the extent of the right of way acquisition is not known, then a contingency should be added based upon historical settlements and awards for condemnation cases, which must include costs for attorneys, engineering research, witness research, survey, and staff time. The right of way acquisition schedule needs to be considered. Right of way acquisition costs will increase quickly in rapidly developing areas. Costs must include relocation assistance and benefits for displaced individuals, families, businesses, governments, and nonprofit organizations. Special acquisitions, such as those from government sites can be time consuming and costly. The LPA recognizes right of way estimates are dependent upon the accuracy and reliability of information concerning the locations of the right of way limits on a project. A small change in the locations of the right of way line, or a change in access control or drainage retentions placement, particularly in commercial areas, can affect the right of way cost estimate by millions of dollars because of required damage payments such as severance or business damages.

It is anticipated a ROW Cost Estimated is needed for \_\_\_\_\_ tracts.

Deliverables: ROW Cost Estimate form PA-4.

## VIII. BRIDGE DESIGN SERVICES

## IX. ENVIRONMENTAL SERVICES AND COORDINATION

Environmental coordination requires the Design Consultant to work with the NEPA Consultant to ensure environmental commitments are met. The RC is responsible for coordinating these efforts.

- 1) **Review of NEPA documents and commitments.** The Design Consultant shall review the NEPA Documents for any commitments made that must be addressed during the design.
- 2) **NEPA exhibits.** The Design Consultant will provide the NDOT with exhibits as needed for the development of Public Involvement.
- 3) **Preliminary Waterway Permit Data Sheet.** The Design Consultant will complete form NDOT-290 for the project.
- 4) **Wetlands Impacts.** The Design Consultant will provide limits of construction to the Environmental Consultant for calculation of impacts to wetland areas delineated. This information shall be provided in the final plans on the E Sheet.
- 5) **Airport Coordination.** The Design Consultant shall coordinate and submit formal correspondence and approval from NDOA.
  - a. The need or potential need for a FAA Form 7460-1 should be noted in the plan-in-hand report and added as a special provision in the PS&E package by the design consultant.

## **X. PUBLIC INVOLVEMENT**

The Consultant) shall serve as the agent for the Client, representing the Client in all matters related to public involvement services for this project, with the exception of *(list any tasks to be conducted by the Client or others)*:

1. Civil Rights Analysis
2. Preparation of a distribution list of stakeholders and contiguous property owners
3. Preparation and dissemination of a press release in regard to public involvement
4. Ordering and posting temporary public meeting highway signs (if needed)

It is anticipated that the project will require the following major tasks *(include the following, as appropriate)*:

1. Public Information Meeting (PIM)

### **APPLICABLE PUBLICATIONS:**

Work shall be done in accordance with the most current version of the following materials. The most current versions of the NDOT materials can be obtained from the NDOT website.

NDOT Public Involvement Procedure

<http://dot.nebraska.gov/media/3964/ndor-public-involvement-procedure.pdf>

### **CLIENT SHALL PROVIDE:**

- ~~1. If applicable, cover any costs associated with securing or using meeting venue(s)~~
- ~~2. Distribution list of stakeholders and contiguous property owners~~
- ~~3. Press Release to be sent two weeks prior to public information meeting (optional)~~
- ~~4. Temporary signage to be installed 15 days prior to public information meeting (if needed)~~
- ~~5. Templates for standard reports, legal notices, handouts, comment response letters, etc., for materials being developed for Client~~

### **CONSULTANT SHALL PROVIDE THE FOLLOWING SERVICES:**

Consultant will work with the Client to develop a Public Involvement Plan to address public notification, develop a database of project stakeholders and plan for the PIM, one-on-one meetings, or agency meetings that might be necessary. ~~Consultant will assist the Client in conducting a Public Information Meeting (PIM) including setup, facilitation and teardown. Consultant will:~~

- ~~1. Identify Venue and arrange for booking. Provide a meeting venue floor plan including identification of ADA compliant access routes, location of display and~~

presentation materials, and seating arrangement, if applicable;

2. ~~Prepare a Legal Notice~~ of meeting to include project location, purpose and need, planned construction, state if additional right of way or easements will be needed to construction the project, additional impacts and construction schedule
3. ~~Public Notice Publication~~, verify local newspaper distribution schedule and critical dates and submittal information related to legal advertisements. Client will place advertising for the public notice in one local (Nebraska Press Association (NPA) certified paper at least 15 days prior to event with two affidavits of publication.
4. ~~Postal Outreach~~, Prepare and distribute invitations to property owners directly adjacent to the project and other project stakeholders from a list provided by the Client, anticipate \_\_\_\_ invitations sent through the U.S. Postal Service.
5. ~~4f Informational Poster~~, \_\_\_\_ posters showing publicly owned park and recreation areas that are open to the general public, publicly owned wildlife and waterfowl refuges, and public or privately owned historic sites. The term historic sites include prehistoric and historic districts, sites, buildings, structures or objects listed in, or eligible for, the National Register of Historic Places, if applicable;
6. ~~Prepare aeriels~~ with proposed alternatives and potential impacts;
7. ~~Posters~~, anticipate \_\_\_\_ other informational posters, note types of posters.
8. ~~Develop Advertising~~ for public meetings \_\_\_\_ radio ads, \_\_\_\_ website.
9. ~~Provided Translators~~ for public information meeting and for public meeting anticipate \_\_\_\_ documents (if needed).
10. ~~Prepare a Fact Sheet~~ suitable for a mailer or handout at the PIM; The Fact Sheet will be similar to the legal notice and include the project location, purpose and need, scope of work, traffic volumes, construction schedule, accommodations of traffic, ROW, potential impacts, additional costs, location map/detour map and appropriate logos (FHWA, NDOT, Client's logo, Preliminary Plan Stamp — NO consultant logos / branding);
11. ~~Prepare for and Attend the Public Meeting~~ meet approximately 15 minutes before the actual public meeting for the project team to review key facts/information and to go over any potential issues and to provide suggestions on how to approach questions and/or conflicts.
12. ~~Prepare a matrix~~ summarizing general comments and concerns from the public meeting and written comments. The client will identify those comments which



warrant a response. The Consultant will prepare \_\_\_\_ draft responses and revise them as needed based on the Clients review comments. The approved responses will be mailed by U.S. Postal Service. The Consultant is to anticipate \_\_\_\_ responses.

**13. Summary Memo,** the Summary Memo is summary of what done to involve and inform the public of the proposed improvements and to solicit the public's comments and concerns.

**14. Public Involvement Report,** (which will include a summary of the outreach performed [tools used, information about the distribution list, legal notice publication dates, specified comment period date, etc.], a table of summarized comment/responses, and attachments that consist of what the public received in their project information packet, the comments received, and the final signed responses to the comments. The public involvement report/summary memo and attachments shall be attached to the CE. [Additional deliverables shall be inserted for various levels of public outreach.]

**15. Public Information Packet.** Consultant will assist the Client in the development of a Public Information Packet, as described by NDOT's PI Reports outline. Consultant will:

- Prepare Cover Letter
- Develop Comment Form
- Include the **Legal Notice**
- Include the **Fact Sheet** in the packet

**16. Packet Distribution.** Consultant will coordinate the mailing of the Public Information Packet, using a distribution list provided by the Client. The Client will coordinate hand delivery of packets to the businesses and property owners adjacent to the project

#### **17. MEETINGS**

Meetings anticipate;

- \_\_\_ Kickoff meeting
- \_\_\_ Project status meeting(s)
- \_\_\_ Public meeting
- \_\_\_ Comment review meeting(s)
- \_\_\_ One on one meeting(s)
- \_\_\_ Agency meeting(s)

Other: (Additional project specific tasks may be added here).

#### **DIRECT COST ITEMS**

- Venue;

- ~~Nametags, Sign-In Sheets, comment forms.~~
- ~~Informational posters~~

**DELIVERABLES:** ~~\_\_\_\_\_~~

1. ~~\_\_\_\_\_ Project Schedule~~
2. ~~\_\_\_\_\_ Monthly Invoices and Progress Reports~~
3. ~~\_\_\_\_\_ Meeting Minutes~~
4. ~~\_\_\_\_\_ Public Information Meeting Documents and Maps~~
5. ~~\_\_\_\_\_ Public Involvement Summary Memo of entire public involvement process, public comments and responses to written comments~~
6. ~~\_\_\_\_\_ Public Involvement Report~~
7. ~~\_\_\_\_\_ Stakeholder letters addressing Comments~~

XI. WATERLINE/SANITARY SEWER RELOCATION/RECONSTRUCTION

XII. GEOTECHNICAL

### **XIII. COORDINATION FOR RAILROAD**

The consultant's personnel shall complete a Railroad approved safety course and obtain appropriate Rights of Entry from the applicable railroad.

BNSF: <https://bnsf.railpermitting.com/>

UPRR: See section 12.2 of the Public Projects Manual.

<https://www.up.com/content/dam/upcom/migration/uprr/realestate/documents/up-pdf-native/docs/re-nonintrusive-survey-app-v2.pdf>

If a railroad crossing or runs adjacent within 250 feet of project centerline are encountered, the following information shall be collected:

1. Railroad should be identified by name
2. Coordinates and elevations of the top of rail shall be collected every 300 feet. More frequent shots may be required to accurately depict the horizontal curvature of railroad alignment. It shall be noted which rail of the line is surveyed (North, South, East, or West).
3. If multiple tracks are present, it shall be noted which line is the mainline track as this is typically the reference from which railroad right-of-way is measured.
4. Survey data should include data on all railroad crossings from which length, width, elevations and skew angles can be plotted. A description of the crossing should be included to indicate type of crossing materials used, such as wood plank, concrete planks, steel plate, etc. The condition of the crossing should also be noted. The type, location, and condition of crossing protection devices, if any, including control boxes shall collected and described. If electricity is used to power warning devise, the name of the utility company is desirable.
5. If cross-section data is required, railroad crossings shall be handled in a manner similar to intersecting roads. Top of rail shots shall be taken. Additional shots shall be taken 1000 feet in each direction to show the profile of the tracks.
6. All culverts and bridges serving an adjacent rail-line shall be surveyed. Information collected shall be similar to the information gathered for structures along the roadway (Culvert Data Sheet).
7. Railroad accessors, such as switch stands, signals, communication lines, sheds, tanks, railroad mile posts, etc. shall be identified and located.



XIV. **SCHEDULE**

**Project Timeline.** The Consultant shall prepare a schedule for project milestone dates and the schedule will be updated upon Notice to Proceed as well as quarterly or if dates change. The consultant will show old dates with the updated schedule dates. The document will include the project name, the project number, project control number consultant firm name, project manager and date.

| Milestones                  |                                  | Duration     | Comments                                                                                                             | Date |
|-----------------------------|----------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------|------|
| From                        | To                               |              |                                                                                                                      |      |
| NTP for Scoping<br>PE/NEPA  | PCM 0 and Red<br>Flag Site Visit | 2-3 month    |                                                                                                                      |      |
| PCM 0                       | PCM 20                           | 1-2 month(s) |                                                                                                                      |      |
| PCM 20                      | PCM 30                           | 4-5 months   |                                                                                                                      |      |
| PCM 30                      | PCM 35                           | 1 month      | Submit Post-PIH plans and ROW Design                                                                                 |      |
| PCM 35                      | Approved NEPA                    | Varies       | 4 months is consistent with a CE-1. More time will be needed for CE-2 and CE-3.                                      |      |
| Approved NEPA               | PCM 70                           | 1 month      |                                                                                                                      |      |
| PCM 70                      | ROW Negotiation<br>Complete      | Varies       | No ROW – Duration will be plan development time<br>ROW – Min. 6-12 months, depending on # of tracts                  |      |
| ROW Negotiation<br>Complete | PS&E Turn In/PCM<br>90           | 3 months     | NDOT M&R, Bridge, Erosion Control Reviews. Note: PS&E Turn In and PCM 90<br>does not need to happen on the same day. |      |
| Official PS&E Turn In       | LET                              | 4 months     |                                                                                                                      |      |

Nebraska Department of Transportation - Local Assistance  
Division Plans Assembly (Current as of July 2021)

| Sheet Number & Order | Plan Sheet (As Required)                                            | Created By     | Sheet Description<br><small>*See KDOT Roadway Design Manual</small> | Sheets Required for Plan Set |            |              |      |
|----------------------|---------------------------------------------------------------------|----------------|---------------------------------------------------------------------|------------------------------|------------|--------------|------|
|                      |                                                                     |                |                                                                     | PH                           | Functional | Present PS&W | PS&W |
| A                    | Title Sheet                                                         | Consultant/PDU | See Section 4.A                                                     | X                            | X          | X            | X    |
| B                    | Typical Cross-Sections                                              | Consultant     | See Section 4.B                                                     | X                            | X          | X            | X    |
| C                    | Summary of Quantities                                               | PDU            | See Section 4.C                                                     |                              |            |              | X    |
| D_                   | Summary of Soil and Materials Survey Information                    | Consultant     | See Section 4.D                                                     |                              |            |              | X    |
| E_                   | Environmental or Aerial Sheets including Wetlands (when applicable) | Consultant     | See Section 4.E                                                     | X                            | X          | X            | X    |
| F_                   | Horizontal Alignment and Control Points                             | Consultant     | See Section 4.F                                                     | X                            | X          | X            | X    |
| G_                   | General Information Sheets                                          | Consultant     | See Section 4.G                                                     | X                            | X          | X            | X    |
| H_                   | Phasing Plans                                                       | Consultant     | See Section 4.H                                                     | X                            | X          | X            | X    |
| J1 Thru J_           | Large Scale Plans:                                                  | Consultant     | See Section 4.I                                                     |                              |            |              |      |
| J_                   | Geometrics and Grades                                               | Consultant     | See Section 4.I                                                     | X                            | X          | X            | X    |
| J_                   | Drainage                                                            | Consultant     | See Section 4.I                                                     | X                            | X          | X            | X    |
| J_                   | Construction & Removal (on separate sheets if necessary)            | Consultant     | See Section 4.I                                                     | X                            | X          | X            | X    |
| J_                   | Erosion & Sediment Control w/ Wetland Areas                         | Consultant     | See Section 4.I                                                     | X                            | X          | X            | X    |
| K_                   | Utility Rehabilitation (project by project basis)                   | Consultant     | See Section 4.J                                                     |                              |            |              |      |
| L_                   | Plan and Profile or Plan Over Plan Sheets                           | Consultant     | See Section 4.K                                                     | X                            | X          | X            | X    |
| M1                   | Traffic Control Plans                                               | Consultant     | See Section 4.L                                                     |                              | X          | X            | X    |
| M_                   | Temporary Pavement Marking Plan                                     | Consultant     | See Section 4.L                                                     |                              |            | X            | X    |
| M_                   | Signing Plans                                                       | Consultant     | See Section 4.L                                                     |                              |            | X            | X    |
| N_                   | Roadway Lighting Plans                                              | Consultant     | See Section 4.M                                                     | X                            | X          | X            | X    |
| O_                   | Intelligent Transportation Project Plans                            | Consultant/    | See Section 4.N and Chapter Fourteen: Traffic, Section 5            |                              |            |              | X    |
| P_                   | Landscaping                                                         | Consultant     | See Section 4.O                                                     |                              |            | X            | X    |
| Q_                   | Earthwork Data Sheets                                               | Consultant     | See Section 4.P                                                     |                              | X          | X            | X    |
| R_                   | Drainage Structure Cross-Section Sheets                             | Consultant     | See Section 4.Q                                                     | X                            | X          | X            | X    |
| S_                   | Bridge Plans (Bridge, Approach Slab, Paving Section)                | Consultant     | See Section 4.R                                                     | X                            | X          | X            | X    |
| T_                   | Special Plans from Bridge (CBC, etc.)                               | Consultant     | See Section 2.C                                                     |                              |            | X            | X    |
| U_                   | Special Plans from Roadway (Area Inlets, Guardrail etc.)            | Consultant/PDU | See Sections 2.B & 2.C                                              |                              |            | X            | X    |
| V_                   | Other Plans as Needed                                               |                | See Section 2.C                                                     |                              |            |              |      |
| W1 Thru W_           | Right-of-Way Plans                                                  | Consultant     | See Sect. 4.S and Chap. Fifteen: <u>Right-of-Way</u>                |                              |            |              |      |
|                      | Ownership                                                           | Consultant     | Chap. Fifteen, Sect. 2.B                                            | X                            | X          |              |      |
|                      | Appraisal                                                           | Consultant     | Chap. Fifteen, Sect. 2.D                                            |                              | X          | X            |      |
|                      | PS&E Turn-in                                                        | Consultant     | Chap. Fifteen, Sect. 2.F                                            |                              |            |              | X    |
| X1 Thru X_           | Roadway Cross-Sections                                              | Consultant     | See Section 4.P                                                     | X                            | X          | X            | X    |
| Std. Plans           | Standard Plans                                                      | Consultant PDU | See Section 2.A                                                     |                              |            |              | X    |

## Preliminary & Final Design

Project Number: TAP-89(35)  
Control Number: 22928

**NEBRASKA**  
Good Life. Great Journey.  
DEPARTMENT OF TRANSPORTATION

|                                    |         |
|------------------------------------|---------|
| Overhead Rate <sup>[1]</sup>       | 197.12% |
| Fee for Profit Rate <sup>[2]</sup> | 11.40%  |
| FCCM (if applicable)               | 2.18%   |

Template: T-WB-B-2 LPA PF (rev 10-07-2025) CPFF

| Employee Name                       | Job Title & Certifications <sup>(3)</sup> | Current Actual Salary Rate/Hr <sup>(4)</sup> | % Assigned |
|-------------------------------------|-------------------------------------------|----------------------------------------------|------------|
| <b>Project Manager</b>              |                                           |                                              |            |
| Jay Fallick                         | Senior Project Manager, PE                | \$92.02                                      | 100%       |
|                                     |                                           |                                              |            |
|                                     |                                           |                                              |            |
|                                     |                                           |                                              |            |
|                                     | <b>Blended Rate:</b>                      | <b>\$92.02</b>                               |            |
| <b>Sr. Engineer</b>                 |                                           |                                              |            |
| Jordan Vietz                        | Senior Project Engineer, PE               | \$56.15                                      | 70%        |
| Jay Fallick                         | Senior Project Manager, PE                | \$92.02                                      | 20%        |
| Brogan Andrews                      | Senior Project Engineer, PE               | \$53.00                                      | 5%         |
| Anthony Cameli                      | Project Manager, PE                       | \$66.60                                      | 5%         |
|                                     |                                           |                                              |            |
|                                     |                                           |                                              |            |
|                                     | <b>Blended Rate:</b>                      | <b>\$63.69</b>                               |            |
| <b>Engineer</b>                     |                                           |                                              |            |
| Ryan Weyers                         | Project Engineer, EI                      | \$38.10                                      | 85%        |
| Nicholas Moresette                  | Project Engineer, EI                      | \$38.10                                      | 15%        |
|                                     |                                           |                                              |            |
|                                     |                                           |                                              |            |
|                                     | <b>Blended Rate:</b>                      | <b>\$38.10</b>                               |            |
| <b>Sr. Designer/Technician</b>      |                                           |                                              |            |
| Mark Templeman                      | Senior Designer                           | \$88.34                                      | 100%       |
|                                     |                                           |                                              |            |
|                                     |                                           |                                              |            |
|                                     | <b>Blended Rate:</b>                      | <b>\$88.34</b>                               |            |
| <b>Registered Land Surveyor</b>     |                                           |                                              |            |
| Noah Jensen                         | Survey Project Manager, RLS               | \$50.00                                      | 100%       |
|                                     |                                           |                                              |            |
|                                     |                                           |                                              |            |
|                                     | <b>Blended Rate:</b>                      | <b>\$50.00</b>                               |            |
| <b>Survey Party Chief</b>           |                                           |                                              |            |
| Tim Moeller                         | Survey Party Chief                        | \$37.75                                      | 40%        |
| Alex Kraenow                        | Survey Party Chief                        | \$35.50                                      | 30%        |
| Heath Howser                        | Survey Party Chief                        | \$33.25                                      | 15%        |
| Ethan Fangmeir                      | Survey Party Chief                        | \$33.25                                      | 15%        |
|                                     |                                           |                                              |            |
|                                     |                                           |                                              |            |
|                                     | <b>Blended Rate:</b>                      | <b>\$35.73</b>                               |            |
| <b>Survey Technician</b>            |                                           |                                              |            |
| Ryan O'Toole                        | Survey Technician, RLS                    | \$46.64                                      | 50%        |
| Brandon Wood                        | Survey Technician                         | \$36.50                                      | 50%        |
|                                     |                                           |                                              |            |
|                                     |                                           |                                              |            |
|                                     | <b>Blended Rate:</b>                      | <b>\$41.57</b>                               |            |
| <b>Public Engagement Specialist</b> |                                           |                                              |            |
| Alyssa Vaughan                      | Public Engagement Specialist              | \$45.63                                      | 70%        |
| Maddie Mulder                       | Junior Graphic Designer                   | \$25.96                                      | 15%        |
| Samantha Huebner                    | Public Engagement Specialist              | \$36.25                                      | 15%        |
|                                     |                                           |                                              |            |
|                                     |                                           |                                              |            |
|                                     | <b>Blended Rate:</b>                      | <b>\$41.27</b>                               |            |



BLENDED RATES TABLE

Template: T-WB-B-2 LPA PE (rev 10-07-2025) CPFF

| Employee Name   | Job Title & Certifications <sup>[3]</sup> | Current Actual Salary Rate/Hr <sup>[4]</sup> | % Assigned |
|-----------------|-------------------------------------------|----------------------------------------------|------------|
| Administrative  |                                           |                                              |            |
| Caitlin Kersten | Invoicing                                 | \$29.33                                      | 75%        |
| Grace Werner    | Administrative Professional               | \$26.25                                      | 25%        |
|                 |                                           |                                              |            |
|                 |                                           |                                              |            |
| Blended Rate:   |                                           | \$28.56                                      |            |

# Estimate of Hours

# Preliminary & Final Design

Project Name: River Road Connector Trail  
 Consultant: JEO Consulting Group, Inc.  
 Consultant PM: Jay Fallick, 402-392-9912, jfallick@jeo.com  
 NDOT PC: Karen Majerus, 402-479-3600, karen.majerus@nebraska.gov  
 Date: May 27, 2026

Project Number: TAP-89(35)  
 Control Number: 22928

| TASKS                                                       | PERSONNEL CLASSIFICATIONS |      |     |      |     |     |      |     |     |  | Total |
|-------------------------------------------------------------|---------------------------|------|-----|------|-----|-----|------|-----|-----|--|-------|
|                                                             | PM                        | SENG | ENG | SDES | RLS | SPC | STEC | PEN | ADM |  |       |
| I. Project Management                                       | 85                        | 8    |     | 20   |     |     |      |     | 7   |  | 120   |
| 1. Project Management                                       | 65                        |      |     |      |     |     |      |     | 7   |  | 72    |
| 2. Project Description / Purpose and Need / Project Details |                           | 8    |     |      |     |     |      |     |     |  | 8     |
| 3. Quality Assurance / Quality Control                      | 20                        |      |     | 20   |     |     |      |     |     |  | 40    |
|                                                             |                           |      |     |      |     |     |      |     |     |  |       |
|                                                             |                           |      |     |      |     |     |      |     |     |  |       |
| II. Meetings                                                |                           | 80   |     |      |     |     |      |     |     |  | 80    |
| 1. Plan-In-Hand Meeting                                     |                           | 26   |     |      |     |     |      |     |     |  | 26    |
| 2. LPANDOT Coordination Meetings                            |                           | 22   |     |      |     |     |      |     |     |  | 22    |
| 3. PCM Forms                                                |                           | 6    |     |      |     |     |      |     |     |  | 6     |
| 4. Meetings with Utilities                                  |                           | 8    |     |      |     |     |      |     |     |  | 8     |
| 5. Concept Level Plan Review                                |                           | 18   |     |      |     |     |      |     |     |  | 18    |
|                                                             |                           |      |     |      |     |     |      |     |     |  |       |
|                                                             |                           |      |     |      |     |     |      |     |     |  |       |
| III. Survey                                                 |                           |      |     |      | 10  | 108 | 44   |     |     |  | 162   |
| 1. Preliminary Field Survey                                 |                           |      |     |      |     | 48  |      |     |     |  | 48    |
| 2. Digital Terrain Model                                    |                           |      |     |      |     |     | 8    |     |     |  | 8     |
| 3. Base Map Preparation                                     |                           |      |     |      |     |     | 16   |     |     |  | 16    |
| 4. Horizontal and Vertical Control                          |                           |      |     |      | 1   | 8   |      |     |     |  | 9     |
| 5. Section / Property Corners                               |                           |      |     |      | 4   | 24  | 8    |     |     |  | 36    |
| 6. Existing Utilities                                       |                           |      |     |      | 1   | 4   | 4    |     |     |  | 9     |
| 7. Note Reduction / Preliminary Plotting                    |                           |      |     |      |     |     | 8    |     |     |  | 8     |
| 8. PIH Staking the Right of Way                             |                           |      |     |      | 2   | 12  |      |     |     |  | 14    |
| 9. Negotiations Staking the Right of Way.                   |                           |      |     |      | 2   | 12  |      |     |     |  | 14    |
| 10. Staking Right-of-Way for Condemnation Hearing.          |                           |      |     |      |     |     |      |     |     |  |       |
| 11. Condemnation Plats                                      |                           |      |     |      |     |     |      |     |     |  |       |
| 12. Condemnation Hearings                                   |                           |      |     |      |     |     |      |     |     |  |       |
|                                                             |                           |      |     |      |     |     |      |     |     |  |       |
|                                                             |                           |      |     |      |     |     |      |     |     |  |       |
| IV. Preliminary Roadway Design (PIH)                        |                           | 188  | 120 | 32   |     |     |      |     |     |  | 340   |
| 1. Horizontal/Vertical Alignments                           |                           | 18   | 10  |      |     |     |      |     |     |  | 28    |
| 2. Plan and/or Profile Sheets                               |                           | 16   | 10  |      |     |     |      |     |     |  | 26    |
| 3. Template Roadway Cross Sections                          |                           | 40   | 12  | 20   |     |     |      |     |     |  | 72    |
| 4. Limits of Construction                                   |                           | 4    | 4   |      |     |     |      |     |     |  | 8     |
| 5. Earthwork                                                |                           | 4    | 4   | 4    |     |     |      |     |     |  | 12    |
| 6. Roadway Geometric Design                                 |                           | 20   | 16  | 6    |     |     |      |     |     |  | 42    |
| 7. Storm Sewer and Drainage                                 |                           | 8    |     |      |     |     |      |     |     |  | 8     |
| 8. Roadway and Driveway Culverts                            |                           | 8    |     |      |     |     |      |     |     |  | 8     |
| 9. Construction and Removal                                 |                           | 10   | 28  | 2    |     |     |      |     |     |  | 40    |
| 10a Utility Rehabilitation Sheets                           |                           | 8    | 8   |      |     |     |      |     |     |  | 16    |
| 10b Utility Conflict Memo and Plans                         |                           | 8    | 4   |      |     |     |      |     |     |  | 12    |
| 11. Construction Phasing/Detour Route/Temp Roads            |                           |      |     |      |     |     |      |     |     |  |       |
| 12. Erosion Control                                         |                           | 8    | 10  |      |     |     |      |     |     |  | 18    |
| 13. Quantities/Estimates                                    |                           | 8    | 4   |      |     |     |      |     |     |  | 12    |
| 14. Typical Sections                                        |                           | 6    | 6   |      |     |     |      |     |     |  | 12    |
| 15. E Sheets                                                |                           | 2    | 4   |      |     |     |      |     |     |  | 6     |
| 16. Guardrail                                               |                           |      |     |      |     |     |      |     |     |  |       |
| 17. Floodplain Permitting Identification                    |                           |      |     |      |     |     |      |     |     |  |       |
| 18. Plan-in Hand Report                                     |                           | 12   |     |      |     |     |      |     |     |  | 12    |
| 19. Working Day Calculations                                |                           | 8    |     |      |     |     |      |     |     |  | 8     |
| 20. Pavement Determination.                                 |                           |      |     |      |     |     |      |     |     |  |       |
|                                                             |                           |      |     |      |     |     |      |     |     |  |       |
|                                                             |                           |      |     |      |     |     |      |     |     |  |       |

| TASKS                                           | PERSONNEL CLASSIFICATIONS |      |      |      |      |      |      |     |     |  |         |
|-------------------------------------------------|---------------------------|------|------|------|------|------|------|-----|-----|--|---------|
|                                                 | PM                        | SENG | ENG  | SDES | RLS  | SPC  | STEC | PEN | ADM |  | Total   |
| V. Post Plan in Hand Plans                      |                           | 34   | 26   | 14   |      |      |      |     |     |  | 74      |
| 1. Post Plan in Hand Plans                      |                           | 28   | 22   | 14   |      |      |      |     |     |  | 64      |
| 2. Plan Submittal                               |                           | 6    | 4    |      |      |      |      |     |     |  | 10      |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
| VI. Draft PS&E Plan Review                      |                           | 28   | 22   | 6    |      |      |      |     |     |  | 56      |
| 1. Incorporate comments                         |                           | 10   | 8    | 6    |      |      |      |     |     |  | 24      |
| 2. Draft PS&E Plan Submittal                    |                           | 18   | 14   |      |      |      |      |     |     |  | 32      |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
| VII. Final PS&E Submittal/Blue Line Corrections |                           | 28   | 10   | 10   |      |      |      |     |     |  | 48      |
| 1. Final PS&E Submittal                         |                           | 10   | 4    | 4    |      |      |      |     |     |  | 18      |
| 2. Address comments or questions                |                           | 4    | 4    | 2    |      |      |      |     |     |  | 10      |
| 3. Electronic CADD files                        |                           | 6    |      | 4    |      |      |      |     |     |  | 10      |
| 4. Printing                                     |                           | 2    | 2    |      |      |      |      |     |     |  | 4       |
| 5. SWPPP                                        |                           |      |      |      |      |      |      |     |     |  |         |
| 6. Letting Task                                 |                           | 6    |      |      |      |      |      |     |     |  | 6       |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
| VIII. Right of Way Design                       |                           | 24   | 22   |      | 24   |      | 34   |     |     |  | 104     |
| 1. Existing Right-of-Way Base                   |                           |      |      |      | 8    |      | 8    |     |     |  | 16      |
| 2. Proposed Right-of-Way                        |                           | 6    | 4    |      | 12   |      | 22   |     |     |  | 44      |
| 3. Right-of-Way Plan Sheets                     |                           | 10   | 18   |      |      |      |      |     |     |  | 28      |
| 4. Title Research                               |                           | 2    |      |      | 4    |      | 4    |     |     |  | 10      |
| 5. Permit to occupy right of way                |                           | 6    |      |      |      |      |      |     |     |  | 6       |
| 6. Prepare ROW Cost Estimate                    |                           |      |      |      |      |      |      |     |     |  |         |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
| <del>IX. Bridge Design Services</del>           |                           |      |      |      |      |      |      |     |     |  |         |
| X. Environmental Coordination                   |                           | 22   | 12   |      |      |      |      |     |     |  | 34      |
| 1. Review of NEPA documents and commitments     |                           | 8    |      |      |      |      |      |     |     |  | 8       |
| 2. NEPA exhibits                                |                           | 8    | 6    |      |      |      |      |     |     |  | 14      |
| 3. Preliminary Waterway Permit Data Sheet       |                           | 4    | 4    |      |      |      |      |     |     |  | 8       |
| 4. Wetlands Impacts                             |                           | 2    | 2    |      |      |      |      |     |     |  | 4       |
| 5. Airport Coordination                         |                           |      |      |      |      |      |      |     |     |  |         |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
| XI. Public Involvement                          |                           |      |      |      |      |      |      | 8   |     |  | 8       |
| 1. Public Involvement Plan                      |                           |      |      |      |      |      |      | 8   |     |  | 8       |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
|                                                 |                           |      |      |      |      |      |      |     |     |  |         |
| XIV. Coordination for Railroad                  |                           | 2    |      |      |      | 16   |      |     |     |  | 18      |
| 1. Railroad survey                              |                           | 2    |      |      |      | 16   |      |     |     |  | 18      |
| Total Days                                      | 10.6                      | 51.8 | 26.5 | 10.3 | 4.25 | 15.5 | 9.75 | 1   | 0.9 |  | 131     |
| Total Hours                                     | 85                        | 414  | 212  | 82   | 34   | 124  | 78   | 8   | 7   |  | 1,044.0 |

**Direct Expenses****Preliminary & Final Design**

Project Name: River Road Connector Trail

Project Number: TAP-89(35)

Consultant: JEO Consulting Group, Inc.

Control Number: 22928

Date: May 27, 2026

| Subconsultants:                                                        |     |           | Amount     |
|------------------------------------------------------------------------|-----|-----------|------------|
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
| Subtotal                                                               |     |           |            |
| Printing and Reproduction:                                             | Qty | Unit Cost | Amount     |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
| Subtotal                                                               |     |           |            |
| Mileage/Travel:                                                        | Qty | Unit Cost | Amount     |
| Mileage/Travel:                                                        |     | \$0.725   |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
| Subtotal                                                               |     |           |            |
| Lodging/Meals:                                                         | Qty | Unit Cost | Amount     |
| Motel - Standard Rate \$110+tax                                        |     | \$130.00  |            |
| Motel - Omaha/Douglas Co. \$122+tax                                    |     | \$145.00  |            |
| Meals & Incidentals (70% GSA Standard Rate, full days)                 |     | \$47.60   |            |
| Meals & Incidentals (70% GSA Standard Rate, 1st & last days)           |     | \$35.70   |            |
| Meals & Incidentals (70% GSA Rate, full days, Omaha/Douglas Co.)       |     | \$56.00   |            |
| Meals & Incidentals (70% GSA Rate, 1st & last days, Omaha/Douglas Co.) |     | \$42.00   |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
| Subtotal                                                               |     |           |            |
| Other Miscellaneous Costs:                                             | Qty | Unit Cost | Amount     |
| Title Reports                                                          | 11  | \$275.00  | \$3,025.00 |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
|                                                                        |     |           |            |
| Subtotal                                                               |     |           | \$3,025.00 |
| TOTAL DIRECT EXPENSES                                                  |     |           | \$3,025.00 |



## Preliminary & Final Design

Project Number: TAP-89(35)  
Control Number: 22928

Pursuant to email dated May 8th, 2026, there are anticipated direct expenses associated with survey work on the railroad right-of-way. Direct expenses could be, but not limited to, right of entry permit, flagger, insurance, and safety course. The UPRR associated direct expenses are unknown at this time. There will be a future agreement that will provide compensation for these direct expenses.

**Project Cost & Breakdown****Preliminary & Final Design**

Project Name: River Road Connector Trail Project Number: TAP-89(35)  
Consultant: JEO Consulting Group, Inc. Control Number: 22928  
Consultant PM: Jay Fallick, 402-392-9912, jfallick@jeo.com  
NDOT PC: Karen Majerus, 402-479-3600, karen.majerus@nebraska.gov  
Date: May 27, 2026

| DIRECT LABOR COSTS                                      |       |         |                      |
|---------------------------------------------------------|-------|---------|----------------------|
| Classification                                          | Hours | Rate    | Amount               |
| Project Manager                                         | 85    | \$92.02 | \$7,821.70           |
| Sr. Engineer                                            | 414   | \$63.69 | \$26,367.66          |
| Engineer                                                | 212   | \$38.10 | \$8,077.20           |
| Sr. Designer/Technician                                 | 82    | \$88.34 | \$7,243.88           |
| Registered Land Surveyor                                | 34    | \$50.00 | \$1,700.00           |
| Survey Party Chief                                      | 124   | \$35.73 | \$4,430.52           |
| Survey Technician                                       | 78    | \$41.57 | \$3,242.46           |
| Public Engagement Specialist                            | 8     | \$41.27 | \$330.16             |
| Administrative                                          | 7     | \$28.56 | \$199.92             |
|                                                         |       |         |                      |
| Ave. Salary Rate/Hour = \$56.91 ; Incl. OH+P = \$189.61 |       | 1044    | Subtotal \$59,413.50 |

| DIRECT EXPENSES            |  | Amount     |
|----------------------------|--|------------|
| Subconsultants:            |  |            |
| Printing And Reproduction: |  |            |
| Mileage/Travel:            |  |            |
| Lodging/Meals:             |  |            |
| Other Miscellaneous Costs: |  | \$3,025.00 |
| Subtotal                   |  | \$3,025.00 |

| TOTAL PROJECT COSTS                                                  |  | Amount       |
|----------------------------------------------------------------------|--|--------------|
| Direct Labor Costs                                                   |  | \$59,413.50  |
| Labor Cost Escalation Factor for Multi-year Projects (if allowed): n |  |              |
| Overhead @ 197.12%                                                   |  | \$117,115.89 |
| Facility Capital Cost of Money (FCCM) @ 2.180% (labor costs x FCCM%) |  | \$1,295.21   |
| Direct Expenses                                                      |  | \$3,025.00   |
| Fee for Profit Rate @ 11.40%                                         |  | \$20,124.35  |
| TOTAL COST                                                           |  | \$200,973.95 |