CITY		ENGINEER	
CITY OF JOPLIN **602 S. MAIN STREET** **JOPLIN, MO 64801**		Name: Olsson Address: 1027 S Main, Suite 503 Joplin, MO 65801	
Attention: Dan Johnson, PE Director of Public Works		Attention: Clayton Cristy, PE	
Department: Public Works		Phone: 417- 627-5554	Fax:
Phone: 417 624-0820	Fax:	Pennsylvania Avenue, Bridge Removal, Street & Drainage Improvements Old Willow Branch (Yellow Phase)	

WORK AUTHORIZATION NUMBER OLS-WIL-01

TO MASTER AGREEMENT FOR PROFESSIONAL ENGINEERING CONSULTING SERVICES (On-Call)
Dated March 20, 2024

City of Joplin and Engineer enter into this Work Authorization only for the work described below. This Work Order is issued pursuant to that Master Services Agreement for Professional Engineering Consulting Services ("MSA") previously executed by City and Engineer, and upon acceptance by hereof by both parties, shall form a part of the MSA. The terms of the MSA are incorporated herein by reference. The parties agree that the Engineer will perform the Services upon the terms and conditions set forth herein and in the MSA. Engineer's acceptance of the terms of this Work Authorization shall be evidenced by Engineer's execution and return of one copy of this Work Authorization to City. Unless sooner terminated as permitted in the MSA, this Work Authorization shall terminate upon completion of the Services for this Work Authorization, except to the extent of surviving obligations set forth herein and in the MSA.

1. **Services**. The City agrees to engage the services of the Engineer and the Engineer agrees to perform the services hereinafter set forth in connection with projects described in ***Exhibit A***.

2. **Addition to Services**. The City of Joplin may add to the Engineer services or delete therefrom activities of a similar nature to those set forth in ***Exhibit A***, provided that the total cost of such work does not exceed the total cost allowance as specified in Paragraph 5 hereof. The Engineer shall undertake such changed activities only upon the direction of the City. All such directives and changes shall be in written form and prepared and approved by the City and shall be accepted and countersigned by the Engineer.

3. **Term**. The services of the Engineer shall commence as soon as practicable after the execution of this contract, unless otherwise directed in writing, and shall be undertaken and completed in such sequence as to assure their expeditious completion in the light of the purposes of the contract, but in any event, all the services required hereunder shall be completed as set forth in the schedule for the project which is attached hereto as ***Exhibit A***.

4. **Costs not to Exceed**. The City of Joplin is limited by law with respect to the amount of money it can pay. Therefore, the City has established a fixed sum for this contract, which cannot be exceeded unless this contract is amended. The Engineer providing services hereunder shall be required to always keep track of the number of hours billable under this contract; and any work more than the fixed sum shall not be eligible for payment. The Engineer shall notify the City if Engineer anticipates that the contract amount may be exceeded, in order to determine whether or not the City is prepared to increase the total compensation. The Engineer shall establish a billing system showing the amount of money remaining on the contract, which shall be shown in each monthly billing.

5. **Payment**.

a. **Conditioned upon acceptable performance**. The City agrees to pay the Engineer in accordance with the terms set forth in ***Exhibit A***, which shall constitute complete compensation for all services to be rendered under this contract; provided, that where payments are to be made periodically to Engineer for services rendered under this contract, the City expressly reserves the right to

disapprove in whole or in part a request for payment where the services rendered during the period for which payment is claimed are not performed in a timely and satisfactory manner in accordance with the schedule and description of services set forth in ***Exhibit A***.

b. Total compensation not to exceed. It is expressly understood that in no event will the total compensation and reimbursement to be paid to the Engineer under the terms of this work Authorization Number **OLS-WIL-01 exceed the sum of Five Hundred, Sixty-Eight Thousand, Two Hundred, Fifty and 00/100 Dollars ($568,250.00).**

6. **Insurance**. Without limiting any of the other obligations or liabilities of the Engineer, the Engineer shall secure and maintain at its own cost and expense, throughout the duration of this Contract and until the work is completed and accepted by the City of Joplin, insurance of such types and in such amounts as may be necessary to protect it and the interests of the City of Joplin against all hazards or risks of loss as hereunder specified or which may arise out of the performance of the Contract Documents. The form and limits of such insurance, together with the underwriter thereof in each case, are subject to approval by the City of Joplin. Regardless of such approval, it shall be the responsibility of the Engineer to always maintain adequate insurance coverage during the term of the Contract. Failure of the Engineer to maintain coverage shall not relieve it of any contractual responsibility or obligation or liability under the Contract Documents.

The certificates of insurance, including evidence of the required endorsements hereunder or the policies, shall be filed with the City at the time that this contract is signed by the Engineer. All insurance policies shall provide thirty (30) days written notice to be given by the insurance company in question prior to modification or cancellation of such insurance. Such notices shall be mailed, certified mail, return receipt requested, to:

City of Joplin - Public Works, 602 S. Main, Joplin, MO 64801; and

Such policies shall name the City as an additional insured with limits of liability not less than the sovereign immunity limits for Missouri public entities calculated by the Missouri Department of Insurance as of January 1 each calendar year and published annually in the Missouri Register pursuant to Section 537.610, RSMo.
(See, http://insurance.mo.gov/industry/sovimmunity.php).

As of January 1, 2024, the minimum coverage for the insurance referred to herein shall be as set out below:

a. Workers' Compensation…. Statutory coverage per RSMo 287.010 et seq.
Employer's Liability……. $1,000,000.00

b. Commercial General Liability Insurance, including coverage for Contractual Liability and Independent Contractors Liability. Such coverage shall apply to bodily injury and property damage on an "Occurrence Form Basis" with limits of at least Three Million Three Hundred Seventy Thousand One Hundred Thirty Seven and no/100 Dollars ($3,370,137.00) for all claims arising out of a single accident or occurrence and at least Five Hundred Five Thousand Five Hundred Twenty and no/100 Dollars ($505,520.00) with respect to injuries and/or death of any one person in a single occurrence and an amount not less than at least $1,000,000 for all claims to property arising out of a single occurrence and at least $100,000 to any one owner with respect to damages to property. Engineer agrees that the proceeds of such insurance policy shall first be used to pay any award, damages, costs, and/or attorneys' fees incurred by or assessed against City, its employees, officers and agents, before payment of any award, damages, costs or attorney's fees of Engineer, its employees, officers or agents. Engineer agrees to cause its insurer to name City as an additional insured on such insurance policy, including the City as an additional insured for coverage under its products-completed operations hazard, and said policy shall be primary and noncontributory.

c. Automobile Liability Insurance covering bodily injury and property damage for owned, non-owned and hired vehicles, with limits of at least Three Million Three Hundred Seventy Thousand One Hundred Thirty Seven and no/100 Dollars ($3,370,137.00) for all claims arising out of a single accident or occurrence and at least Five Hundred Five Thousand Five Hundred Twenty and no/100 Dollars ($505,520.00) with respect to injuries and/or death of any one person in a single accident or occurrence.

d. Errors and Omissions Insurance. The Engineer shall maintain a professional liability insurance policy in the amount of $1,000,000.00. This policy shall remain in full force and effect for a period of one year after completion and acceptance by the City of the construction of the project.

e. Subcontracts. In case any or all this work is sublet, the Engineer shall require the subcontractor to procure and maintain all insurance required in subparagraphs (A), (B) and (C) hereof and in like amounts. Engineer shall require all subcontractors with

whom it enters into a contract to perform work on this project to protect the City of Joplin through insurance against applicable hazards or risks and shall, upon request of the City, provide evidence of such insurance.

f. Notice. The Engineer and/or subcontractor shall furnish the City prior to beginning the work satisfactory proof of carriage of all the insurance required by this contract, with the provision that policies shall not be canceled, modified or non-renewed without thirty (30) days written notice to the City of Joplin.

g. Legislative or Judicial Changes. In the event the scope or extent of the City's tort liability as a governmental entity as described in Section 537.600 through 537.650 RSMo is broadened or increased during the term of this agreement by legislative or judicial action, the City may require Engineer, upon 10 days written notice, to execute a contract addendum whereby the Engineer agrees to provide, at a price not exceeding Engineer's actual increased premium cost, additional liability insurance coverage as the City may require to protect the City from increased tort liability exposure as the result of such legislative or judicial action. Any such additional insurance coverage shall be evidenced by an appropriate certificate of insurance and shall take effect within the time set forth in the addendum.

7. All other terms and conditions of the original Agreement shall remain in effect.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals on the day and year herein stated

REVIEWED FOR APPROVAL

_____
Name & Title of Staff Project Manager

CERTIFICATE OF DIRECTOR OF FINANCE

I certify that the expenditure contemplated by this document is within the purpose of the appropriation to which it is to be charged and that there is an unencumbered balance of appropriated and available funds to pay, therefore.

_____
Leslie Haase, Director of Finance

APPROVED AS TO FORM

_____
Peter Edwards, City Attorney

Engineer: _____

By: _____

Printed Name: _____

Title: _____

Date: _____

By: _____
Daniel Johnson, P.E.
Public Works Director

Date: _____

Engineer: _____

By: _____

Printed Name: _____

Title: _____

Date: _____

Exhibit A - SCOPE OF SERVICES – YELLOW PHASE (01)

This exhibit is hereby attached to and made a part of the Letter Agreement for Professional Services dated October 23, 2024 between Joplin, Missouri ("Client") and Olsson, Inc. ("Olsson") providing for professional services. Olsson's Scope of Services for the Agreement is indicated below.

PROJECT DESCRIPTION AND LOCATION

Project will be located at: Pennsylvania Avenue from 5th St to 7th St, Joplin, MO

Project Description: The existing Old Willow Branch box culvert is near the end of its service life and in need of replacement. The existing culvert is located in downtown Joplin beneath several existing buildings. The scope of services is to develop construction plans and specifications for the new roadway and storm improvements on Pennsylvania Avenue from 5th Street to 7th Street. This will also include the demolition of the Pennsylvania Avenue Viaduct to accommodate the new RCB extension to 7th Street and the Channel Improvements between Kentucky and Pennsylvania Avenue.

MoDOT is currently designing a separate project with roadway improvements along Route 66/7th Street overlapping the limits of the proposed box culvert routing. The box culvert design in this scope is assumed to be incorporated into the design plans for the MoDOT project.

SCOPE OF SERVICES

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

DESIGN SERVICES

Phase 100 – Project Management

This component involves a Project Manager (PM) to work Olsson's project team and with the Owners' PM to ensure the timely completion of quality work products within available budgetary resources. The design PM will be responsible for:

Task 101: Project Management

- Establishing and maintaining project schedule and budget.
- Work with billing coordinators and project team to prepare invoices

Task 102: Communication and Coordination with Others

- Coordinate with the project team, agencies and/or Consultants that are involved with this project or adjacent projects. This involves one-on-one meetings, conference calls, etc.

- Kick-Off Meeting – Once notice to proceed has been received, the PM will schedule and attend a kickoff meeting with the full project team. The PM will draft an agenda, send out invites, and record meeting notes with action items to be followed up on.
- PM will schedule and attend monthly progress meetings (at a minimum) with the project team and will distribute an agenda 24 hours in advance of each meeting. The PM will draft an agenda, send out invites, and record meeting notes with action items to be followed up on.
- Eight (8) meetings (of all the types listed above) will be held for this project. Meetings will be documented and logged.

Task 103: Quality Management

- QA/QC for this project will be scheduled and coordinated by the Olsson Project Manager, who has performed QA/QC review on similar projects, or as identified in the Project Management Plan which will be developed with Owner at the beginning stages of the project. In addition, the teams that make up the Olsson team for this project will utilize other senior staff members for periodic consultation and QA/QC review as the design progresses and for each engineering discipline involved in the project.
- Formal QA/QC reviews including plan-in-hand walk throughs will be conducted at key intervals of design (60% and 90%) and prior to issuance of final PS&E. Completion of the QA/QC plan involves a final review by City and regulatory agency comments and a final constructability review by Olsson.

Task 104: Public Meeting

- Olsson will attend one public meeting with the City and produce plan view exhibits of the proposed improvements to promote discussion with the public. Three dimensional renderings are excluded from this scope. The format of the meeting will be an open house and the City will open the meeting with a formal announcement. No other formal presentation will be required.

<u>Phase 200 – Survey</u>

Task 201: **Topographic Survey Data** - Olsson will collect Topographic Survey data for portions of Pennsylvania Ave and surrounding properties, as outlined in Yellow, on the exhibit below. The Topographic Survey data shall depict contours at a 1' vertical interval, physical improvements including buildings, driveways, fencing, vegetation, existing storm sewer systems, and visible utilities, as well as underground utilities as located by Missouri One-Call system. To provide continuity throughout the project, Olsson will utilize the project control established for the MoDOT Jasper County Route 66 project. The existing control is tied vertically to the NAVD 1988 Vertical Datum and horizontally to the Missouri State Plane Coordinate System NAD 83–West Zone-US Survey foot. Olsson's fee does not include preparation of a deliverable survey in paper format. Survey provided will be in AutoCad format only.

Utility location and mapping is for horizontal location of above ground and underground utilities only. Utility depths will not be obtained or indicated on the

topographic survey. Survey of utilities will be based on tracing and marking by One Call and / or a private utility locater. By signing this contract, the client understands and acknowledges that utility mapping is not exact, and it is possible that not all utility lines will be located. Olsson is not responsible for miss-marked or unmarked utilities.

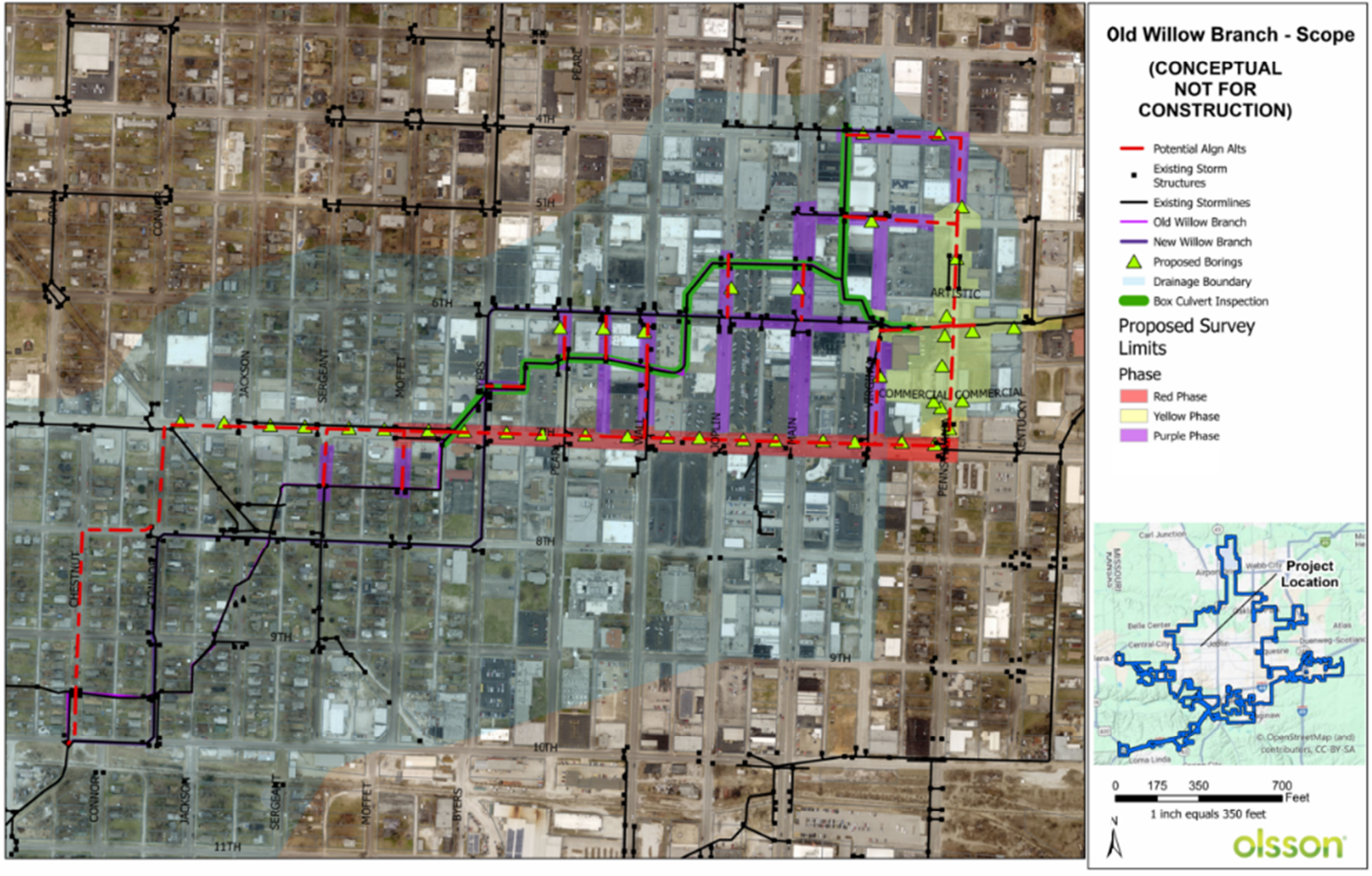

Figure 1: Limits of Survey

Task 202: **Boundary Survey Data -** Olsson will collect boundary information for the area outlined in Yellow on the attached exhibit, sufficient for preparing and writing easement descriptions. The survey shall be tied horizontally to the Missouri State Plane Coordinate System NAD 83–West Zone-US Survey foot. Olsson's fee does not include preparation of a deliverable survey in paper format. Survey provided will be in AutoCad format only.

Task 203: **Easement Exhibit and Description Preparation -** As necessary, Olsson will prepare easement exhibits and descriptions for any easements or right of way dedications, needed. Olsson estimates up to 16 easement exhibits and description, at a unit rate of $1000 per exhibit and description.

Task 204: **Title Work** - Olsson will order Title Searches for the 16 properties surrounding the project.

Phase 300 – Site Investigation

Task 301: **Geotechnical Investigation**

Field Exploration - Olsson to contact Missouri One Call to locate underground utilities. We propose to use a truck-mounted drill rig to complete the following borings for the geotechnical exploration:

- Eleven (11) borings to a depth of 20 feet each
- The borings will be advanced to the depths proposed, or to refusal, whichever is shallower. This proposal is based on a total drilling footage of 220 linear feet.
- Split spoon and thin-walled samples shall be collected from the soil test borings.
- We will obtain groundwater levels in the test borings at the time of drilling and upon completion of the drilling operations in the soil borings.
- After obtaining groundwater level readings, we will backfill the borings with soil cuttings and patch pavements as necessary.

Laboratory Services - As soil conditions dictate, laboratory testing may include visual soil classification (ASTM D2488), unconfined compression tests (ASTM D2166), thin-walled tube density tests (ASTM D7263), moisture content tests (ASTM D2216), Atterberg limit tests (ASTM D4318), percent passing No. 200 sieve wash tests (ASTM D1140), mechanical sieve analysis (ASTM C136). Possible triaxial shear test.

Evaluation and Geotechnical Report - A geotechnical engineering report will be prepared under the direction of a registered professional engineer based on the findings of the field and laboratory programs. The report will include a boring location plan, computer-generated boring logs, results of the laboratory testing program and a description of the surface and subsurface conditions encountered at the site. In addition, the report will present our opinions and recommendations regarding the following items:

- Generalized geotechnical site preparation concerns addressing fill subgrade preparation, earthwork placement, fill compaction criteria, excavatability of any bedrock, and suitability of on-site materials for use as structural fill.
- Lateral Earth Pressures for CIP walls

- Pavement subgrade preparation.
- Minimum Pavement section thicknesses.

Retaining Wall Design - We propose to design two reinforced modular block retaining wall at this site. The retaining wall heights and lengths have not been finalized. From the information that has been provided, Olsson will perform the following services:

- Design of the retaining wall/s in accordance with NCMA design guidelines
- Global Stability Analysis on the critical wall section
- Preparation of design calculations
- Preparation of construction documents, plans and design notes.

Task 302: **Building Inspections (1)** - Olsson will conduct a site visit to investigate the condition of the existing building located immediately at 303 Commercial Alley. This investigation will consist of a visual inspection on the inside and outside of the building to observe the method of construction and overall condition of the structure. Photographs will be taken to provide a record of the structure's general condition, and any significant areas of disrepair identified through the field investigation.

A memorandum and photo log will be prepared that will offer recommendations to the City for addressing the suitability of the structure to remain in place during demolition activities, call out visually observable hazards that should be communicated to the Contractor via the bid documents (for example, presence of basements or apparent limits of foundations), and known significant areas of disrepair (for example, large cracks in walls, presence of uneven floors, or broken windows).

Task 303: **Lead and Asbestos Survey** - Olsson's subconsultant, New Horizons, will complete a lead-based paint and asbestos inspection of the existing bridge.

Task 304: **Wetland and Stream Delineation and Preliminary Jurisdictional Evaluation**

Olsson will complete a wetland and stream delineation of the project limits in Joplin, Missouri. Olsson will follow the methods described in the U.S. Army Corps of Engineers (Corps) Wetland Delineation Manual (January 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountain & Piedmont Region (Version 2.0) (April 2012).

- **Desktop Review.** The first step of the wetland and stream delineation consists of a desktop review of available databases to determine areas within the project study area that may have potential wetlands or other waters of the U.S. This review will include accessing information from the National Hydrography Dataset (NHD), National Wetland Inventory (NWI), U.S. Geological Survey (USGS) 7.5 minute topographic maps, Natural Resources Conservation Service (NRCS) soil data, and current and historical aerial imagery.
- **Site Visit.** Following the desktop review, a site visit will be conducted to field verify the presence or absence of wetlands, streams, and other waters of the U.S. identified during the desktop review. The site visit will be conducted by traversing the project study area to identify wetland characteristics including; hydrophytic vegetation, hydric soils, and wetland hydrology. Wetland, streams, and/or other waters of the U.S. boundaries

will be delineated using sub-meter accuracy global positioning system (GPS) units. Eastern Mountain & Piedmont Region data forms will be filled out. Photographs documenting site conditions, including wetlands, streams, and other waters of the U.S., will be taken. Agricultural areas require additional sample points primarily to document soil conditions.

- **Report.** Upon completion of the site visit a report documenting the findings of the wetland and stream delineation will be prepared detailing the presence or absence of wetlands, streams, and other waters of the U.S. within the project study area. The wetland and stream delineation report will include a narrative of how the wetland and stream delineation was conducted and a summary of the results of the wetland and stream delineation. Figures documenting information gathered during the desktop review and figures showing wetland, streams, and other waters of the U.S. boundaries, sample point locations, and photo point locations will be included. The report will also include a description of Olsson's opinion of whether the wetlands, streams, and other waters of the U.S. are jurisdictional.

Task 305: **Nationwide Permit (if needed) -** Olsson will submit a Clean Water Act, Section 404, nationwide permit notification to the U.S. Army Corps of Engineers (USACE) for the project site. Nationwide permits are general department of army (DA) permits that meet a set of nationwide standards that have minimal individual and cumulative environmental impacts. Nationwide permits are required when jurisdictional aquatic impacts occur related to a project. Olsson will follow the Clean Water Act regulations (33 CFR Parts 320-332) and Section 404(b)(1) Guidelines (40 CFR Part 230). Nationwide permits include a description of the Project, aquatic impacts, threatened and endangered species (desktop evaluation), and cultural resources (desktop evaluation). Following completion of the permit, Olsson will submit the permit request to the USACE for permit issuance. Olsson will follow-up with additional USACE requests within the limitation of the assumptions outlined below.

Task 306: **Water Quality Certification**

Olsson will coordinate the 401 Water Quality Certification (WQC) with the U.S. Army Corps of Engineers (USACE) and any other relevant agencies for the project site. Olsson will follow the Clean Water Act regulations (33 CFR Parts 320-332). Olsson will follow-up with additional requests from the USACE or other agencies within the limitation of the assumptions outlined below.

Phase 400 – Preliminary Design (60%)

Task 401: **Preliminary and Right-of-Way Plans -** Olsson will develop preliminary and right-of-way plans that illustrate limits of the demolition, anticipated temporary access and laydown areas, structures and utilities in conflict with the proposed project, tree clearing, as well as easement and permanent RW limits. Permanent RW will be established to support the future buildout of Pennsylvania Avenue as an at-grade roadway. City staff members will provide the desired roadway typical section for establishing the RW limits for this project.

- Prepare & Submit RW Plans

- Cover Sheet
- General Notes
- Alignment and Control
- Typical Sections
- Demolition Plans
- Plan & Profile Sheets (roadway)
- Plan and Profile Sheets (drainage channel)
- Storm system layout
- Special details
- Cross Sections

- Prepare & Submit Opinion of Probable Cost
- Conduct Quality Control Review

Phase 500 – Right-of-Way Services

Task 501: **RW Assistance -** Olsson has reviewed the scope of the project as presented by the City and have determined six (6) parcels will be involved in the acquisition right-of-way or permanent easement and ten (10) additional parcels impacted by temporary construction easements.

We estimate that to negotiate the acquisition of right-of-way for all the parcels our not-to-exceed negotiation fee is $54,000.

If Relocation Assistance is involved on parcel takings an additional amount will be negotiated as a separate fee.

The fee amount for negotiation activity will include preparation of deeds and easement documents and three contacts with the owners to ensure that the owner has the opportunity to consider offer, free of coercion, and securing a conveyance. We will coordinate with City staff for the arrangement of payments to the property owners. A record of negotiations will be available to the City at all times upon request. If negotiations are not successful after three attempts the City will be notified that the negotiating activity has ceased, and we will request direction on how to proceed from the City of Joplin. If the parcel or easement can't be negotiated in the three contacts listed above, Olsson will review the property with the City to evaluate how to proceed. Negotiations beyond the initial three contacts shall be considered additional services.

For condemnation purposes Olsson charges a rate of $350.00 per hour for court appearances, attorney conferences, and preparation of court exhibits.

The above negotiation fee is based upon the following: The City of Joplin will provide with a notice to proceed:

- All applicable title commitments;
- Approved right-of-way plans and individual tract plats if available;
- Legal descriptions of right-of way acquisition;
- a copy of each appraisal with supporting documents from Contract Fee Appraiser.
- The City of Joplin will provide vacancy notices to each owner when applicable.
- All conveyances and documents to secure all rights, title, and interests for each parcel will be turned over to the City of Joplin personnel for closing each transaction.

Olsson's timeline for completion of negotiations on this project is nine (9) months from the City's notice to proceed.

Task 502: Appraisals (9 properties) - via Subconsultant

- Condemnation is not included in the 9-month completion timeline.

Phase 600 – Final Design Services

Task 601: Final Plans - Olsson will prepare final design plans that will illustrate temporary access and anticipated laydown areas, bridge and bridge foundation removals, anticipated traffic control requirements, tree removals, limits of easements and permanent rights of way, erosion control, and seeding/sodding requirements. The following design tasks are anticipated and included:

- Incorporate comments from City on preliminary plan submittal
- Prepare & Submit Final Plans
  - Cover Sheet
  - General Notes and Recapitulation of Quantities
  - Alignment and Control
  - Typical Sections
  - Plan & Profile Sheets (roadway)
  - Plan & Profile Sheets (channel)
  - Storm System Plan & Profile Sheets
  - Channel Wall Layouts & Details
  - Retaining Wall Layouts
  - Pavement Marking & Signing
  - Seeding and Erosion Control Details
  - Special Details (~10 sheets)
  - Cross Sections
- Prepare & Submit Final Opinion of Probable Cost
- Prepare & Submit SWPPP
- Prepare & Submit Project Front End Docs
- Prepare & Submit Technical Specifications
- Conduct Quality Control Review
- Incorporate comments from Client on Final Plan Submittal (100% unsigned/unsealed)
- Revise and Submit 100% PS&E (signed/sealed) for Construction Submittal.

Phase 700 - Bid Phase Services

Task 701: Attend Pre-bid Meeting - Olsson will attend a pre-bid meeting led by the Client. Some Olsson personnel may attend this meeting virtually.

Task 702: Answer Questions and Prepare Addenda - Olsson will assist the City with answering questions raised by bidders. Addenda will be prepared, as required, to provide clarification to questions. The Client will be informed on a regular basis of any project changes resulting from bidders' questions.

Task 703: Review and Evaluate Bids - All bids properly received will be reviewed. Any inconsistencies or irregularities found in the bids will be reported to the Client. Olsson will prepare a bid tabulation of bids received and will distribute the bid

tabulation to all bidders. Olsson will evaluate the bids and make a written recommendation to the Client concerning contract award.

DELIVERABLES

- Memoranda
  - Recommendations for Adjacent Building and Photo Log
- Geotechnical Report
- Preliminary & Right-of-Way Plans
  - Electronic (PDF) deliverables (cost estimate & plans)
- Final Design (100% unsigned/unsealed) – for client review/approval
  - Electronic (PDF) deliverables (cost estimate, front end, and technical specs & plans)
- Final Design (100% signed/sealed) – for bid
  - Electronic (PDF) deliverables (cost estimate, front end, and technical specs & plans)

Anticipated Start Date: November 2024
Anticipated Completion Date: November 2026

COMPENSATION

Client shall pay to Olsson for the performance of the Scope of Services, the actual time of personnel performing such services in accordance with the Labor Billing Rate Schedule(s), and all actual reimbursable expenses in accordance with the Reimbursable Expense Schedule attached. Olsson shall submit invoices on a monthly basis, and payment is due within 30 calendar days of invoice date.

Olsson's Scope of Services will be provided on a time-and-expense basis not to exceed $568,250 (Five-Hundred Sixty-Eight Thousand, Two-Hundred Fifty-Five Dollars).

Phase 100 – Project Management	$39,500
Phase 200 – Survey	$41,000
Phase 300 – Site Investigation	$58,500
Lead & Asbestos Insp. (sub)	$4,500
Phase 400 – Preliminary Design (60%)	$118,500
Phase 500 – Right-of-Way Services	$54,000
Appraisals (subconsultant)	$40,000
Phase 600 – Final Design Services	$190,000
Phase 700 – Bid Phase Services	$12,500
Reimbursable Expenses	$9,750
Total	**$568,250**

CLIENT PROVIDED INFORMATION

- Available utility locations, size, and materials, if available.
- Record drawings for bridge and building structures/as-builts/inspection reports.
- Right of entry to perform field work.
- Right of entry to the building and liaison for field inspections.
- City will be responsible for any fees associated with any permits and mitigation.
- City will coordinate with and obtain a demolition permit from MoDNR
- City Front End Bid Docs/Standard Specifications/templates that are to be included in the bid package will be provided and made available in electronic format (Word Format preferred)
- City will advertise the project, prepare and issue a notice to bidders.

ASSUMPTIONS:

1. Notice to proceed for this scope of work will be concurrently executed with design work that generally includes the overall drainage study to size the reinforced concrete box (RCB) culvert and for incorporating the new RCB extension into the MoDOT Route 66/7th Street Reconstruction Plans. The proposed new RCB extension will join at 7th Street and Pennsylvania Avenue intersection.
2. The City will appoint a staff member to facilitate and execute agreements with property owners and ensure access is allowed through their facilities to obtain field data for design and allow for construction.
3. Traffic control plans developed as part of the solicitation will be designed by Olsson and used by the Contractor to facilitate temporary access off of 7th Street and gain permit approval from MoDOT. Contractor shall prepare their own traffic control and signing for the city owned streets that will be temporarily impacted, and submit this information as a preconstruction work item for review and approval by the Engineer.
4. No federal funding will be used for the project.
5. Olsson will be retained via Contract Amendment by the City to make periodic site visits to inspect and observe the critical demolition activities and make a post-construction walkthrough of the buildings and bridge site. Client understands that additional inspection, monitoring, or detailed investigation may be necessary, and additional changes to the Construction Contract may be needed in excess of the bid documents.
6. The Bid Documents will require a Means and Methods Submittal that is to be prepared by the winning bidder. This Submittal will be prepared by a licensed professional engineer and consist of a detailed demolition sequence, work pads, staging, shoring, rigging requirements, equipment used, pre-condition assessments of the adjacent buildings and work area(s), piece and debris removal methods, security requirements, and any special considerations that the Contractor may elect to use to protect adjacent property during Demolition activities. Client understands that Olsson does not assume any liability for the means and methods proposed or submitted by the contractor, regardless of Olsson's review of said documents and that any review will be to review general compliance with the bid documents.
7. As part of this scope of services, Olsson will provide a structural engineer to conduct a visual inspection of the adjacent building at 303 Commercial Alley. This inspection is not intended to represent a detailed structural analysis, calculation of capacities, or other quantitative evaluation of the building. This inspection is to be used as a preliminary structural health assessment to gage the condition of the building, understand its construction methods, and identify possible constraints in order to inform the City as to the risks present for proceeding with the bridge demolition project.

8. Building Inspections:
    - City staff members will assist Olsson by securing right of entry to the building and providing a City liaison, as necessary, when entering the building or other private rights-of-way.
    - A detailed structural evaluation, analytical modelling, and material testing for the buildings is not included in this scope of services. Olsson makes no guarantee or offers any implied warranty that the buildings can safely remain in place during demolition activities.
9. Structural:
    - Bridge demolition specifications will be based on MoDOT Standard Specifications for Highway Construction.
    - Except for special connections (if any), the RCB design will follow MoDOT standard plans.
    - A detailed bill of reinforcing will not be developed for the RCBs or channel retaining wall (i.e. they will be bid as structural concrete per CY).
    - The channel wall and bottom is assumed to be cast-in-place construction.
10. The project is not located within FEMA special flood hazard areas. No floodplain development permitting or coordination with FEMA is included in this scope.
11. Fees are an estimate of the actual work necessary to complete the work and the consultant can shift funds between phases and task as necessary to complete the work. Fees cannot be shifted to future phases until the current phase has been submitted and accepted by the City.
12. All permit and mitigation fees, if any, will be paid for by the City.
13. Appraisals will be completed by Subconsultant.
14. If right-of-way negotiations take longer than 9 months, an amendment will be required.
15. Other assumptions identified within the scope of services.
16. The city will make a good faith effort to have the buildings adjacent to the bridge vacant during demolition

EXCLUSIONS

1. More than One On-Site Meeting with the Corps
2. On-Site Habitat or Threatened and Endangered Species Evaluations
3. On-Site Cultural Resources Study or Evaluation
4. Permittee Responsible Mitigation Plan and Monitoring
5. Individual Permit (over 0.5 acre of wetland impacts)
6. Design of utility relocations.
7. Design of temporary shoring, falsework, crane or equipment pads, means and methods, or demolition processes or activities.
8. Design of building protection systems
9. Seismic monitoring during construction activities
10. Soldier pile or soil nail wall designs
11. Detailed structural analysis of the existing buildings
12. Right of Way Assistance through condemnation (requires amendment)
13. Construction Services: administration, testing, inspection, record drawings, and observation

Should Client request work in addition to the Scope of Services, Olsson shall invoice Client for such additional services (Optional Additional Services) at the standard hourly billing labor rate charged for those employees actually performing the work, plus reimbursable expenses if any. Olsson shall not commence work on Optional Additional Services without Client's prior written approval.

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

LABOR RATE BILLING SCHEDULE 2024
Site Design

Description	Range
Principal	$185 - $310
Project Manager	$145 - $270
Project Professional	$135 - $185
Assistant Professional	$90 - $135
Designer	$115 - $165
CAD Operator	$50 - $130
Administrative/Clerical	$50 - $115
*Survey	$65 $220
*Construction Services	$65 - $245

Note:

1. Special Services not included in the above categories will be provided on a Special Labor Rate Schedule. Special rates include but are not limited to Power Delivery, Survey, Field Operations, Special Inspection, Construction Observation, Geotechnical, Non-Destructive Testing, Drilling, Executive Staff.
2. Rates are subject to change based upon updates to Billing Rates for the upcoming year.

*Not inclusive of all services. Refer to Note 1.

olsson

2024 Springfield/Joplin/Fayetteville
Survey Billing Rate Schedule

Classification	Hourly Rate
Group Leader	$210.00
Technical Leader	$185.00
Senior Surveyor	$160.00
Surveyor	$125.00
Associate Surveyor	$95.00
Assistant Surveyor	$80.00
Senior Technician	$110.00
Associate Technician	$85.00
Assistant Technician	$72.00
1 Man Field Crew	$130.00
2 Man Field Crew	$185.00

Equipment	Daily Rate
Boat	$100.00
ATV	$100.00
HD Scanner	$500.00
Drone	$500.00
Lidar	$2,500.00

Travel

Mileage (Portal to Portal)	Mile	$0.75
Hotel	Daily	$140.00
Meals	Daily	$50.00

Additional Notes

1. These Unit Fees are in effect until January 1, 2025.
2. Services and fees not listed above will be quoted upon request.
3. Services on weekends, holidays, and in excess of 8-hours/day will be charged 1.5 times the unit fee.
4. Subcontracted services will be invoiced at our cost plus 20%

REIMBURSABLE EXPENSE SCHEDULE

The expenses incurred by Olsson or Olsson's independent professional associates or consultants directly or indirectly in connection with the Project shall be included in periodic billing as follows:

Classification	Cost
Automobiles (Personal Vehicle)	$0.67/mile*
Suburban's and Pick-Ups	$0.75/mile*
Automobiles (Olsson Vehicle)	$95.00/day
Other Travel or Lodging Cost	Actual Cost
Meals	Actual Cost
Printing and Duplication including Mylars and Linens	
In-House	Actual Cost
Outside	Actual Cost+10%
Postage & Shipping Charges for Project Related Materials including Express Mail and Special Delivery	Actual Cost
Film and Photo Developing	Actual Cost+10%
Telephone and Fax Transmissions	Actual Cost+10%
Miscellaneous Materials & Supplies Applicable to this Project	Actual Cost+10%
Copies of Deeds, Easements or other Project Related Documents	Actual Cost+10%
Fees for Applications or Permits	Actual Cost+10%
Sub-Consultants	Actual Cost+10%
Taxes Levied on Services and Reimbursable Expenses	Actual Cost

*Rates consistent with the IRS Mileage Rate Reimbursement Guidelines (Subject to Change).

2024 Field Operations Services
Unit Rate Schedule

Special Inspections and Construction Materials Testing Services

Testing Services (3-Hour Minimum)

Field Technician	Hour	$70.00
Senior Technician	Hour	$80.00
Field Manager	Hour	$95.00
Project Manager / Project Engineer	Hour	$150.00
Senior Project Manager / Senior Engineer	Hour	$210.00
Administrative Coordinator	Hour	$70.00
Mileage	Mile	$0.75

Laboratory Testing Services

Aggregate Testing

Abrasion - LA Machine	Each	$475.00
Atterberg Limit (Plasticity Index)	Each	$110.00
Bulk Density (Unit Weight) and Voids	Each	$100.00
Deleterious - Clay Lumps and Friable Particles	Each	$175.00
Deleterious - Flat & Elongated Particles	Each	$350.00
Deleterious - Lightweight Particles	Each	$230.00
Deleterious - Organic Impurities	Each	$130.00
Material Finer than No. 200 Sieve	Each	$80.00
Minimum & Maximum Index Density (Vibratory Table)	Each	$240.00
Moisture Content	Each	$21.00
Oversize Particle Correction	Each	$115.00
Particle Size (Gradation) - Sieve Analysis <3/4"	Each	$135.00
Particle Size (Gradation) - Sieve Analysis >3/4"	Each	$200.00
Percent Fractured Particles in Coarse Aggregate	Each	$260.00
Proctor - Modified	Each	$260.00
Proctor - Standard	Each	$210.00
Sand Equivalent of Fine Aggregate	Each	$230.00
Soundness Aggregates (Sodium or Magnesium)	Each	$285.00
Specific Gravity of Aggregate Coarse or Fine Aggregate	Each	$185.00
Uncompacted Void Content of Fine Aggregate	Each	$80.00

550 E. St. Louis Street / Springfield, MO 65806
O 417.890.8802 / **olsson.com**

Asphalt Testing

Asphalt Binder Content by Ignition	Each	140.00
Gradation of Extracted Aggregates (Includes Binder by Ignition)	Each	$200.00
Bulk Specific Gravity/ Pavement Cores (1pt)	Each	$60.00
Marshall Density (3pt)	Each	$240.00
Marshall Stability and Flow (3pt)	Each	$330.00
Percent Air Voids in Compacted Paving Mix	Each	$45.00
Preparation & Density of Superpave Gyratory Compaction Specimens (2pt)	Each	$320.00
Theoretical Maximum Specific Gravity (Rice) (Gmm)	Each	$155.00

Cement, Concrete, & Masonry Testing

Chloride Ion	Each	$200.00
Compressive Strength – Block or Block Prism	Each	$215.00
Compressive Strength - Concrete Cores	Each	$85.00
Compressive Strength - Cube (Grout & Mortar)	Each	$40.00
Compressive Strength - Cylinders	Each	$25.00
Density, Absorption & Voids of Hardened Concrete	Each	$630.00
Flexural Strength of Concrete	Each	$75.00
Length Change of Hardened Hydraulic-Cement Mortar and Concrete	Each	$350.00
Measuring Thickness of Concrete Elements (Drilled Cores)	Each	$65.00
Potential Alkali Silica Reactivity (ASR)	Each	$800.00

Equipment

Core Machine/Sampling	Day	$250.00
Dynamic Cone Penetrometer (DCP)	Day	$105.00
Electrical Resistivity - Field (AEMC Gauge)	Day	$100.00
Floor Flatness Equipment	Day	$300.00
Relative Humidity Probe/Sensor	Each	$80.00
Settlement Monitoring Plate	Each	$300.00
Standard Field Equipment	Each	$25.00
Vapor Emission Test Kit	Each	$60.00

Soil Testing

Atterberg Limits (Plasticity Index)	Each	$110.00
CBR Laboratory Compacted (3pt)	Each	$630.00
CBR Laboratory Compacted (1pt)	Each	$230.00
Density (Wet/Dry)	Each	$30.00
Direct Shear Test of Soils (Consolidated Drained) (3pt)	Each	$1600.00
Dispersion - Crumb	Each	$85.00
Dispersion - Pinhole	Each	$175.00
Material Finer than No. 200 Sieve	Each	$80.00
Moisture Content	Each	$21.00
Moisture Content - Microwave	Each	$45.00
One-Dimensional Consolidation Test	Each	$440.00

Organic Content - Soils	Each	$105.00
Oversize Particle Correction	Each	$115.00
Particle Size (Gradation) - Hydrometer	Each	$230.00
Particle Size (Gradation) - Sieve Analysis	Each	$135.00
Permeability - Flexible Wall Permeameter (Intact)	Each	$550.00
Permeability - Flexible Wall Permeameter (Remold)	Each	$650.00
Proctor - Modified	Each	$260.00
Proctor - Modified w/Additive	Each	$340.00
Proctor - Standard	Each	$210.00
Proctor - Standard w/Chem Additive	Each	$290.00
Swell or Collapse (One Dimensional)	Each	$315.00
Triaxial Compression – Consolidated Drained (Intact)	Each	$1730.00
Triaxial Compression – Consolidated Drained (Remold)	Each	$1930.00
Triaxial Compression – Consolidated Undrained (Intact)	Each	$1575.00
Triaxial Compression – Consolidated Undrained (Remold)	Each	$1775.00
Triaxial Compression – Unconsolidated Undrained	Each	$180.00
Unconfined Compressive Strength - Intact Rock	Each	$115.00
Unconfined Compressive Strength - Soils	Each	$75.00

Sprayed Fire Resistive Materials (SFRM)

Adhesion of SFRM to Structural Members (Field)	Each	$25.00
Thickness and Density of SFRM to Structural Members	Each	$90.00

General Terms and Conditions

1. These Unit Fees are in effect until January 1, 2025. Services and fees not listed above will be quoted upon request.
2. All services charged are portal-to-portal.
3. Services provided on Saturday, Sunday, Holidays, or in excess of 8-hours/day will be charged at 1.5 times the unit fee.
4. Services provided before 6:00 a.m. and after 6:00 p.m. will be charged at 1.5 times the unit fee.
5. Mileage Rate subject to change based on Federal and IRS rate changes.
6. Subcontracted services and expenses will be invoiced at our cost plus 20%
7. Project Manager time will be included for project coordination and report review.