CITY		ENGINEER	
CITY OF JOPLIN **602 S. MAIN STREET** **JOPLIN, MO 64801**		Name: Olsson, Inc. Address: 1027 S. Main St. Suite 503, Joplin, MO 64801	
Attention: Jeremy Hagerman		Attention: ERIC SHELTON, CLAYTON CRISTY, NICK CALTON, KYLE BENNETT	
Department: Engineering		Phone: 4178908802	Fax: 417.890.8805
Phone: 417.624.0820 ext 1538	Fax:	ARPA Stormwater – Additional Design Scope	

AMENDMENT __2*__ TO AGREEMENT BETWEEN THE CITY OF JOPLIN, MISSOURI AND OLSSON, INC. FOR PROFESSIONAL SERVICES DATED JUNE 22, 2023.

City and Engineer agree to amend their Agreement for Professional Engineering Consulting Services to include a scope of work and fees for engineering services, by adding the following terms to their Agreement.

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 of 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 additional compensation and reimbursement for the Scope of Work described in this Amendment be paid to the Engineer under the terms of AGREEMENT BETWEEN THE CITY OF JOPLIN, MISSOURI AND OLSSON, INC. FOR PROFESSIONAL SERVICES DATED JUNE 22, 2023 exceed the sum of One Hundred Ninety Nine Thousand and Five Hundred Eighty Dollars ($ 199,580.00).

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 maintain adequate insurance coverage at all times 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 of 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 any and 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: Olsson

By: Andrea Adams

Printed Name: Andrea Adams

Title: Senior Director of Operations

Date: 04/07/2025

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

Date: _____

LETTER AGREEMENT
AMENDMENT #2*

Date: 04/07/2025

This AMENDMENT ("Amendment") shall amend and become a part of the Letter Agreement for Professional Services dated June 22, 2023 between City of Joplin, Missouri ("Client") and Olsson, Inc. ("Olsson") providing for professional services for the following Project (the "Agreement"):

PROJECT DESCRIPTION AND LOCATION

Project is located at: Joplin, MO (ARPA Group A and Group B Projects)

Project Description: ARPA Stormwater – Additional Design Services

SCOPE OF SERVICES

Client and Olsson hereby agree that Olsson's Scope of Services under the Agreement is amended by adding the services specifically described below for the additional compensation set forth below.

Project Management - Fee $20,400
Provide staff management, monthly invoicing and progress reporting for duration of the project. Olsson will coordinate with city staff member for the design and preparation of construction documents for the projects.
Olsson will review construction pay applications and construction submittals for the additional construction scope. It is assumed that the project duration will remain the same and no additional scope will be required for Resident Project Representative.

Project Site B: Valley and Division: Project scope will be modified to include additional survey, design, and testing scope as detailed below:

Task 1: Topographic Survey – Fee $6,000
Olsson will collect Topographic Survey data and determine the right-of-way lines at the intersection of Pool Street & Cox Avenue, Pool Street & Division Avenue, Division Avenue and North Street and Cox Avenue & Hill Street, in the City of Joplin. The Topographic Survey data shall cover the sidewalk ramps within the area generally shown in *Figure 1.* The Right-of-Way lines shall be determined adjacent to the project areas and shall conform to the current Missouri Standards for Property Boundary Surveys. Survey shall be tied to the horizontal and vertical control as established for the Joplin ARPA projects. 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. Olsson is not responsible for miss-marked or unmarked utilities.

- No easement preparation is included as a part of this proposal.
- No title searches will be performed as a part of this proposal.

Task 2: Roadway Improvements – Fee $10,250

Olsson will provide detailed quantity tables for proposed sidewalk replacement, pavement replacement, and will provide detailed special sheets for curb ramp replacement. Plan sheets will include the following:

- Quantity Tables
- Alignment & Survey Control
- ADA Curb Ramp Details
- Crosswalk Striping Layout
- Temporary Traffic Control (TA's)
- Special Details (if needed)

Task 3: Additional Materials Testing Services – Fee $12,505

54	Hrs Technician - Subgrades Compaction @	$85.00	/hour	$4,590.00
16	Hrs Technician - Asphalt Compaction/Sampling@	$85.00	/hour	$1,360.00
36	Hrs Technician - Pavement/Sidewalks @	$85.00	/hour	$3,060.00
1	Proctor - Standard @	$220.00	/each	$220.00
1	Oversize Particle Correction @	$125.00	/each	$125.00
1	Material Passing No. 200 Sieve @	$85.00	/each	$85.00
1	Atterberg Limits @	$125.00	/each	$125.00
1	Theoretical Maximum Specific Gravity (Rice) (Gmm) @	$155.00	/each	$155.00
60	Compression Test - Concrete @	$25.00	/each	$1,500.00
24	Standard Field Equipment @	$25.00	/each	$600.00
3	Hrs Technician - Sample Transport to SGF Lab @	$75.00	/hour	$225.00
1	Trip to SGF - asphalt delivery @	$120.00	/trip	$120.00
34	Trips @	$10.00	/trip	$340.00

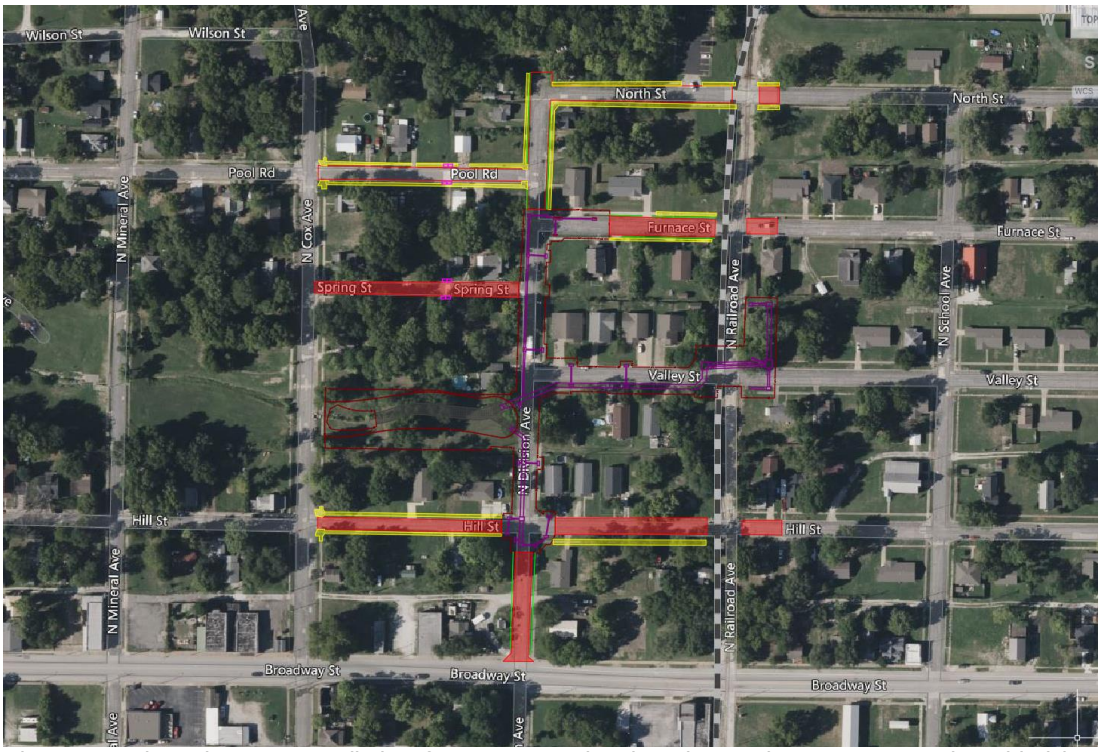


Figure 1: Project Site B: Approx limits of pavement and curb and gutter improvements to be added (pending available funding).

Project Site C: Texas Avenue: Project scope will be modified to include additional survey, design, and testing scope as detailed below:

Task 1: Topographic Survey – Fee $4,000

Olsson will collect Topographic Survey data and determine the right-of-way lines along the alley between Texas Avenue and Highview Avenue (approximately 610-lf), in the City of Joplin. The Topographic Survey data shall cover the sidewalk ramps within the area generally shown in *Figure 2.* The Right-of-Way lines shall be determined adjacent to the project areas and shall conform to the current Missouri Standards for Property Boundary Surveys. Survey shall be tied to the horizontal and vertical control as established for the Joplin ARPA projects. 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. Olsson is not responsible for miss-marked or unmarked utilities.
- No easement preparation is included as a part of this proposal.
- No title searches will be performed as a part of this proposal.

Task 2: Roadway Improvements – Fee $7,500

Olsson will provide detailed pavement replacement plan for alleyway. Typical pavement section shall follow City of Joplin Standard Residential Alley Section (ST-03). Olsson will provide basic centerline profile to ensure positive drainage. Plan sheets will include the following:

- Quantity Tables
- Alignment & Survey Control
- Roadway Plan & Profile Sheets
- Temporary Traffic Control (TA's)
- Special Details (if needed)
- Cross Sections (if needed)

Task 3: Additional Materials Testing Services – Fee $2,300

9	Hrs Technician - Subgrades Compaction @	$85.00	/hour	$765.00
8	Hrs Technician - Asphalt Compaction/Sampling @	$85.00	/hour	$680.00
1	Gradation of Extracted Aggregates (w/ AC by Ignition)	$200.00	/each	$200.00
1	Theoretical Maximum Specific Gravity (Rice) (Gmm) @	$155.00	/each	$155.00
3	Hrs Technician - Sample Transport to SGF Lab @	$75.00	/hour	$225.00
5	Standard Field Equipment @	$25.00	/each	$125.00
1	Trip to SGF - asphalt delivery @	$120.00	/trip	$120.00

3	Trips @	$10.00	/trip	$30.00

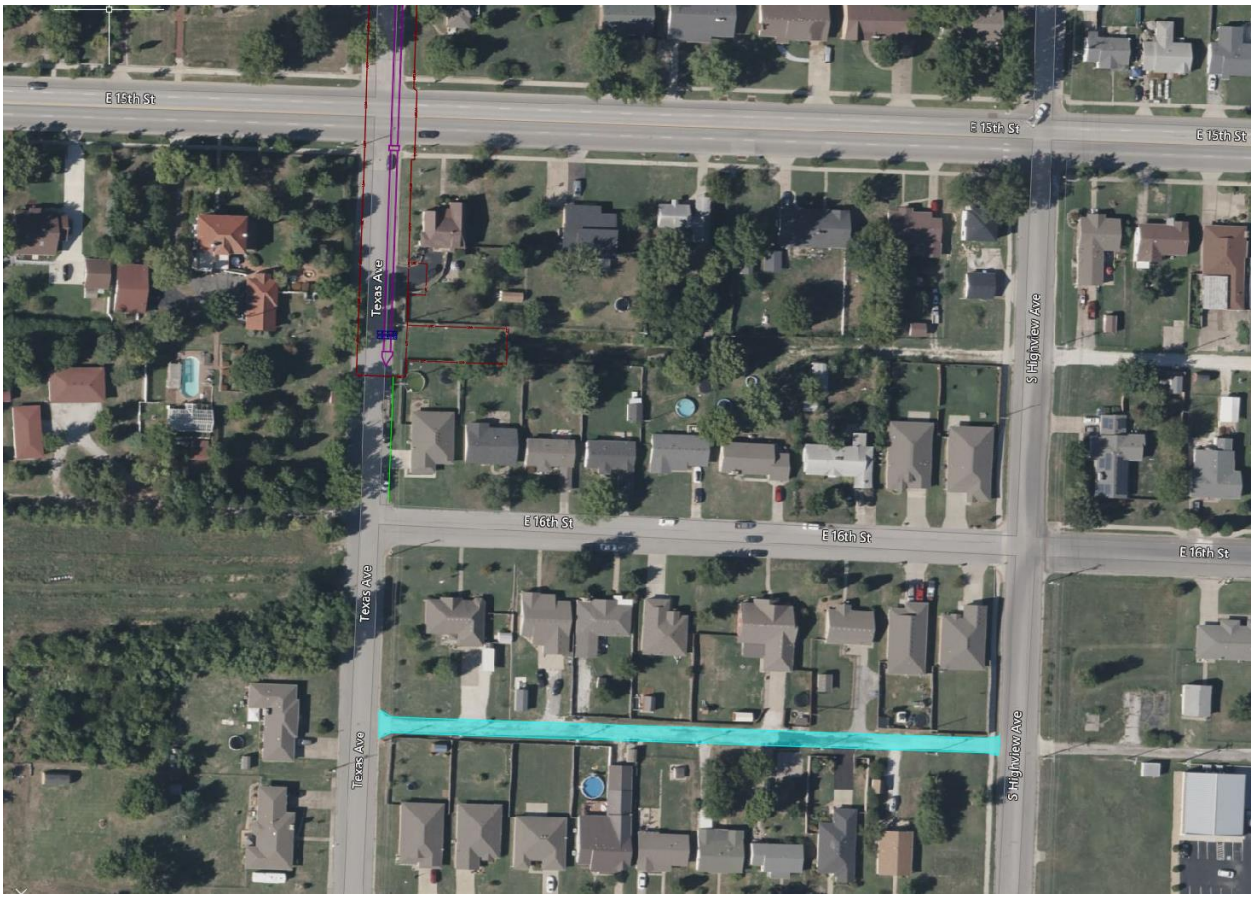


Figure 2: Project Site C: Approx limits of pavement to be added (pending available funding).

Project Site D: Ten Pin Lane: Project scope will be modified to include additional testing scope for Whispering Oaks plans provided by the City of Joplin as detailed below:

Task 1: Additional Materials Testing Services – Fee $2,205

9	Hrs Technician - Imported Fill @	$85.00	/hour	$765.00
6	Hrs Technician - Concrete Channel/Culverts @	$85.00	/hour	$510.00
1	Proctor - Standard @	$220.00	/each	$220.00
1	Oversize Particle Correction @	$125.00	/each	$125.00
1	Material Passing No. 200 Sieve @	$85.00	/each	$85.00
1	Atterberg Limits @	$125.00	/each	$125.00
10	Compression Test - Concrete @	$25.00	/each	$250.00
3	Standard Field Equipment @	$25.00	/each	$75.00
5	Trips @	$10.00	/trip	$50.00

Project Site E: 5th and Porter: Project scope will be modified to include additional survey, design, and testing scope as detailed below:

Task 1: Topographic Survey – Fee $3,000

Olsson will collect Topographic Survey data and determine the right-of-way lines at the intersection of 6th Street & Porter Avenue, in the City of Joplin. The Topographic Survey data shall cover the sidewalk ramps within the area generally shown in *Figure 3.* The Right-of-Way lines shall be determined adjacent to the project areas and shall conform to the current Missouri Standards for Property Boundary Surveys. Survey shall be tied to the horizontal and vertical control as established for the Joplin ARPA projects. 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. Olsson is not responsible for miss-marked or unmarked utilities.
- No easement preparation is included as a part of this proposal.
- No title searches will be performed as a part of this proposal.

Task 2: Roadway Improvements – Fee $8,500

Olsson will provide detailed quantity tables for proposed sidewalk replacement, pavement replacement, driveway replacement (assumes 8 driveways) and will provide detailed special sheets for curb ramp replacement. Detailed driveway profiles and driveway special sheets are excluded from the scope. Plan sheets will include the following:

- Quantity Tables
- Alignment & Survey Control
- ADA Curb Ramp Details
- Crosswalk Striping Layout
- Temporary Traffic Control (TA's)
- Special Details (if needed)

Task 3: Additional Materials Testing Services – Fee $8,725

24	Hrs Technician - Subgrades Compaction @	$85.00	/hour	$2,040.00
45	Hrs Technician - Pavement/Sidewalks @	$85.00	/hour	$3,825.00
1	Proctor - Standard @	$220.00	/each	$220.00
1	Oversize Particle Correction @	$125.00	/each	$125.00
1	Material Passing No. 200 Sieve @	$85.00	/each	$85.00
1	Atterberg Limits @	$125.00	/each	$125.00
75	Compression Test - Concrete @	$25.00	/each	$1,875.00
8	Standard Field Equipment @	$25.00	/each	$200.00
23	Trips @	$10.00	/trip	$230.00

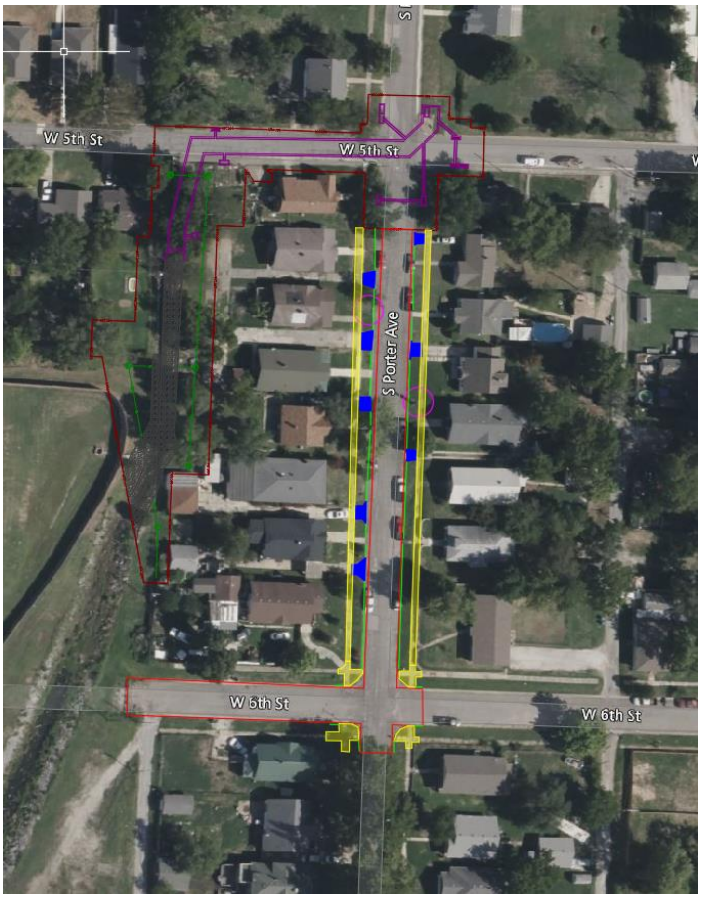


Figure 3: Project Site E: Approx limits of pavement and curb and gutter improvements to be added (pending available funding).

Project Site H: 12th and Wall: Project scope will be modified to include additional survey, design, and testing scope as detailed below:

Task 1: Topographic Survey – Fee $4,500

Olsson will collect Topographic Survey data and determine the right-of-way lines at the intersection of 12th Street & Wall Avenue, 12th Street & Joplin Avenue, and 13th Street & Joplin Avenue, in the City of Joplin. The Topographic Survey data shall cover the sidewalk ramps within the area generally shown in *Figure 4.* The Right-of-Way lines shall be determined adjacent to the project areas and shall conform to the current Missouri Standards for Property Boundary Surveys. Survey shall be tied to the horizontal and vertical control as established for the Joplin ARPA projects. 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. Olsson is not responsible for mis-marked or unmarked utilities.
- No easement preparation is included as a part of this proposal.
- No title searches will be performed as a part of this proposal.

Task 2: Roadway Improvements – Fee $6,500

Olsson will provide detailed quantity tables for proposed sidewalk replacement, pavement replacement, and will provide detailed special sheets for curb ramp replacement. Plan sheets will include the following:

- Quantity Tables
- Alignment & Survey Control
- ADA Curb Ramp Details
- Crosswalk Striping Layout
- Temporary Traffic Control (TA's)
- Special Details (if needed)

Task 3: Additional Materials Testing Services – Fee $4,550

9	Hrs Technician - Subgrades Compaction @	$85.00	/hour	$765.00
18	Hrs Technician - Pavement/Sidewalks @	$85.00	/hour	$1,530.00
9	Hrs Technician - Asphalt Compaction/Sampling @	$85.00	/hour	$765.00
1	Proctor - Standard @	$220.00	/each	$220.00
1	Oversize Particle Correction @	$125.00	/each	$125.00
1	Material Passing No. 200 Sieve @	$85.00	/each	$85.00
1	Atterberg Limits @	$125.00	/each	$125.00
1	Gradation of Extracted Aggregates (w/ AC by Ignition)	$200.00	/each	$200.00

1	Theoretical Maximum Specific Gravity (Rice) (Gmm) @	$155.00	/each	$155.00
5	Standard Field Equipment @	$25.00	/each	$125.00
3	Hrs Technician - Sample Transport to SGF Lab @	$75.00	/hour	$225.00
1	Trip to SGF - asphalt delivery @	$120.00	/trip	$120.00
11	Trips @	$10.00	/trip	$110.00



Figure 4: Approx limits of pavement and curb and gutter improvements to be added (pending available funding).

Assumptions & Exclusions (Project Sites B, C, E, and G)

1. Detailed topographic survey only required at ADA Ramps
2. Aerial images may be used for quantity calculations
3. Detailed driveway sheets are excluded
4. Detailed intersection layout sheets are excluded
5. Traffic control plan layout details for review and comment. Typical Applications will be used.
6. Roadway Job Special Provisions are not anticipated. City of Joplin standard specifications will cover detailed construction applications

7. Fully checked, original drawings of the final design plans, including quantity sheets with all quantities tabulated and subtotaled.
8. One electronic copy of engineering calculations and analysis.
9. One electronic copy of a completed summary of quantities and estimate of the construction costs.

Project Site I: Massachusetts and Murphy Boulevard: Project scope will be modified to include additional survey, permitting and design scope as detailed below to design an additional 200 linear feet of stream restoration north of Murphy Boulevard and to replace damaged culvert headwall on the south side of 15th Street.

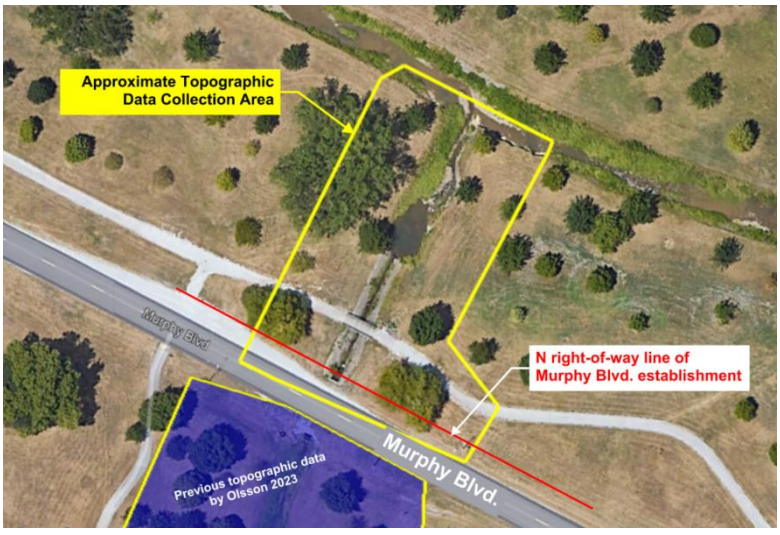
I. Boundary & Topographic Survey Data

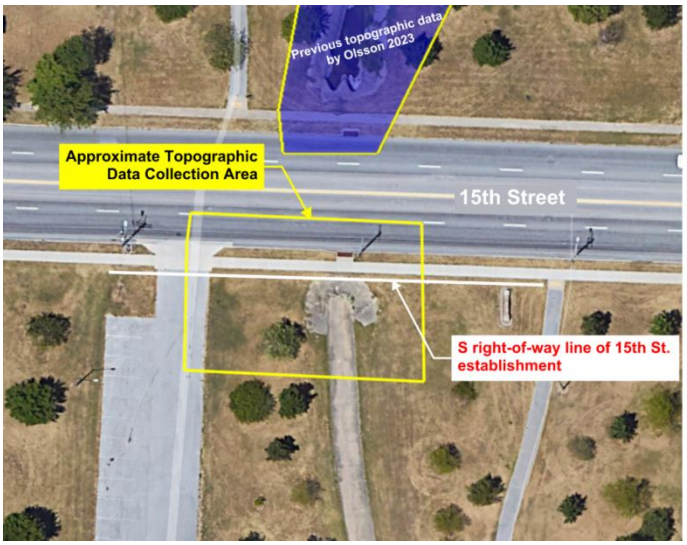
Olsson will collect Boundary & Topographic Survey Data within the areas as generally shown in the attached Exhibit. All in the City of Joplin, Jasper County, Missouri. The Boundary survey data shall conform to the current Missouri Standards for Property Boundary Surveys. The Topographic Survey data shall depict contours at a 1' vertical interval, all physical improvements including drains, pipes, ditches fencing, vegetation outlines and visible utilities, as well as underground utilities as located by Missouri One-Call system. Survey shall be 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 depths will not be obtained or indicated on the topographic survey. Survey of utilities will be based on tracing and marking by One Call utility locater. Olsson is not responsible for mismarked or unmarked utilities.*

Fee $4,000.00

Boundary & Topo Exhibits





II. Structural Engineering Design

Task 2.1: Bridge Plans and Foundation Design $18,500

Olsson shall prepare structural designs and construction bid documents for a pedestrian bridge (assumed length ~ 36 feet). It is assumed that the superstructure will be a prefabricated truss system, which will be designed by the manufacturer. Olsson will design the foundations and coordinate with a truss manufacturer to determine preliminary truss loadings, which will be presented as conditional information subject to verification during the preconstruction shop drawing approval process. The lines and grades will be based on the required span length to roughly match the existing banks and provide suitable freeboard over the 10-year design storm event. Water surface elevations will be obtained from the prior H&H design that was completed in a prior phase of this project.

The design will conform to AASHTO LRFD's Pedestrian Bridge Design Guidelines and utilize current City of Joplin Construction Specifications and MoDOT's EPG to govern methods and materials used for construction of the bridge, where appropriate.

Due to the short bridge length, Olsson will utilize an appropriate minimum allowable bearing pressure and compile performance specifications and verification steps to be undertaken during construction by a licensed geotechnical engineer or geologist, prior to allowing construction of the spread footings.

The following structural design tasks are anticipated and included in this scope of services:

Preliminary Bridge Design

- Geometric layout and typical section
- Select barriers and/or fencing.
- Coordinate with geotechnical engineer for appropriate design parameters/specs
- Prepare Preliminary Bridge Plans
    1. Prelim. Bridge Construction Layout
    2. Prelim. Elevation and Typical Section
- Conduct Quality Control Review
- Prepare & Submit Preliminary Opinion of Probable Cost

Final Bridge Design and Plans

- Incorporate client review comments from preliminary plan submittal
- Update and finalize geometric layout including grading around wingwalls
- Prepare & Submit Technical Specifications for Bidding
- Prepare & Submit Final Opinion of Probable Cost
- Conduct Quality Control Review

- Prepare & Submit Final Bridge Plans (~6 Sheets)
  1. Bridge Construction Layout (Plan and Elevation)
  2. Abutment 1 and 2 Details (2 sheets)
  3. Wingwall Details
  4. Superstructure Details (2 sheets, performance spec based)

Task 2.2: Culvert Crossing Headwall and Wingwall Replacement $17,500

Olsson shall prepare structural designs and construction bid documents for a replacement to the upstream end of the 15th Street culvert crossing and the downstream end of the Murphy Boulevard Culvert. Currently, there exists double 60" diameter RCP's with a grouted blanket that forms the effective headwall and "wings" at 15th, and a 6'x6' RCB at Murphy Boulevard. Olsson will identify appropriate removal limits, and design and prepare bid documents for a conventional concrete headwall, apron, and wingwalls.

It is assumed that MoDOT's culvert and wingwall standard drawings can be used as a basis for design and plan production.

Task 2.3: Construction Shop Drawing/Design Approvals $9,500

Olsson will provide <u>limited</u> assistance during construction to assist city staff members by reviewing and approving the contractor's submittals for the following;

- Access plan
- Concrete mix designs
- Manufacturer's Superstructure Design and Truss Shop Drawings
- Bill of reinforcing (barbill) for Abutments, Wingwalls, and Culvert Headwalls
- Contractor's shoring or dewatering design, if necessary

Deliverables

- Preliminary Plans & Cost Estimate
  - Electronic (PDF) deliverables (cost estimate & plans)
  - Opinion of Probable Cost
- Final Design (90% unsigned/unsealed) – for client review/approval
  - Electronic (PDF) deliverables (cost estimate, technical specs & plans)
  - Opinion of Probable Cost
- Final Design (100% signed/sealed) – for bid
  - Electronic (PDF) deliverables (cost estimate, specs & plans)
  - Word Documents (if available) of technical specs and bid form
  - Drawing design files in CAD
  - Opinion of Probable Cost

Client Provided Information

- Available water, sewer, and power locations, size, and materials, if available.
- Record drawings for structures/as-builts/inspection reports.
- Right of entry to perform field work
- City will be responsible for any fees associated with permits

III. Channel Restoration Design Plans - $37,500

- Provide sealed construction drawings for the additional 200 linear feet of stream repair north of Murphy Boulevard and for the headwall replacement south of 15th Street including the following sheets:
    i. Alignment Information and ROW
    ii. Erosion Control
    iii. Demolition
    iv. Stream Plan and Profile
    v. Landscaping Plan
    vi. Trail Replacement
- Channel design will follow the same typical section as the current design south of Murphy Boulevard. Riprap will be evaluated for the culvert discharge location and for the connection location to the stream to the north.

- Olsson will evaluate hydraulics to meet a no-rise criteria. Adjustments will be made to achieve this criteria. No rise certification and floodplain development permit will be completed.

IV. Environmental Permitting

Task 4.1 – Nationwide Permit Modification – Fee $4,000

Olsson will submit a nationwide permit modification 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). Olsson will follow up with additional USACE requests within the limitation of the assumptions outlined below. Olsson will Coordinate with channel design to provide the following information to USACE: Project description, Project design sheets, Quantity (in cubic yards and square feet) of dredge and fill in Waters of the U.S. from the project, Quantity (in cubic yards and square feet) of temporary and permanent impacts by the project to Waters of the U.S.

ITEMS NOT INCLUDED IN THIS TASK:

1. Two or more site visits with the USACE,
2. Agency or client meetings, other than phone call discussions,
3. Changes in project design or location requiring changes to the report,
4. On-Site Habitat or Threatened and Endangered Species Evaluations,
5. On-Site Cultural Resources Study or Evaluation,
6. Permittee Responsible Mitigation Plan and Monitoring,
7. Individual Permit (over 0.5 acre of wetland impacts).

SCHEDULE OF SERVICES

Unless otherwise agreed upon, Olsson expects to perform its services under the Agreement as follows:

Anticipated Start Date: Upon receipt of the Notice to Proceed.

Anticipated Completion Dates: Deliverables will be submitted to the client within 60 days upon receipt of the Notice to Proceed.

V. INSPECTION SERVICES - *$7,645.00*

Fill Placement				
3	Hrs Technician - Subgrade @	$80.00	/hr	$240.00
15	Hrs Technician - Structural Fill @	$80.00	/hr	$1,200.00
1	Standard Proctor @	$220.00	/each	$220.00
1	Oversize Correction @	$125.00	/each	$125.00
1	P200 @	$85.00	/each	$85.00
1	Atterberg Limits @	$125.00	/each	$125.00
6	Standard Equipment @	$25.00	/day	$150.00
6	Trips @	$30.00	/trip	$180.00
Foundation Bearing Materials				
3	Hrs Sr. Technician @	$80.00	/hr	$240.00
1	Trips @	$30.00	/trip	$30.00
Reinforced Concrete				
9	Hrs Technician - Bridge Foundation @	$80.00	/hr	$720.00
6	Hrs Technician - Headwall @	$80.00	/hr	$480.00
25	Compression Test - Concrete @	$25.00	/each	$625.00
5	Trips @	$30.00	/trip	$150.00
Structural Steel				
12	Hrs Steel Technician @	$105.00	/hr	$1,260.00
3	Trips @	$160.00	/trip	$480.00

Project Engineering and Administration

4	Hrs Project Manager/Engineer @	$160.00	/hr	$640.00
4	Hrs Field Manager @	$100.00	/hr	$400.00
1	Hrs Senior Team Leader @	$220.00	/hr	$220.00
1	Hrs Project Administration @	$75.00	/hr	$75.00

Assumptions and Exclusions

- Retaining walls are not excepted and are excluded from this scope of services
- Sanitary sewer relocations are not expected and are excluded
- The Construction duration will remain the same and no additional scope will be required for Resident Project Representative.

TERMS AND CONDITIONS OF SERVICE

All provisions of the original Agreement not specifically amended herein shall remain unchanged. Services provided will be performed at the rates listed in the Unit Rate Schedule attached through January 1, 2026. Rates are subject to change in January 2026.

If this Contract Amendment satisfactorily sets forth your understanding of our agreement, please sign in the space provided below. Retain a copy for your files and return an executed original to Olsson. This proposal will be open for acceptance for a period of 30 days from the date set forth above, unless changed by us in writing.

OLSSON, INC.

By Andrea Adams

By _____
Eric Shelton – Senior Engineer

By signing below, you acknowledge that you have full authority to bind Client to the terms of this Amendment. If you accept this Amendment, please sign:

City of Joplin, Missouri

By _____
Signature

Printed Name _____

Title _____ Dated: _____

Olsson 2025 Billing Rate Schedule

Description	Range		
Principal	$152.00	-	$472.00
Project Manager	$133.00	-	$287.00
Project Professional	$99.00	-	$258.00
Assistant Professional	$74.00	-	$182.00
Designer	$95.00	-	$238.00
CAD Operator	$64.00	-	$150.00
Survey	$59.00	-	$230.00 *
Construction Services	$53.00	-	$305.00 *
Administrative/Clerical	$49.00	-	$300.00

Note:

1. Special Services not included in above categories will be provided on a Special Labor Rate Schedule
2. Rates subject to change based upon updates to Billing Rates for upcoming year.

2025 Field Operations Services
Unit Rate Schedule

Special Inspections and Construction Materials Testing Services

Testing Services (3-Hour Minimum)

Field Technician	Hour	$75.00
Senior Technician	Hour	$85.00
Steel Technician	Hour	$105.00
Field Manager	Hour	$100.00
Project Manager / Project Engineer	Hour	$160.00
Senior Project Manager / Senior Engineer	Hour	$220.00
Administrative Coordinator	Hour	$75.00
Mileage	Mile	$0.85

Laboratory Testing Services

Aggregate Testing

Abrasion - LA Machine	Each	$500.00
Atterberg Limit (Plasticity Index)	Each	$125.00
Bulk Density (Unit Weight) and Voids	Each	$110.00
Deleterious - Clay Lumps and Friable Particles	Each	$190.00
Deleterious - Flat & Elongated Particles	Each	$375.00
Deleterious - Lightweight Particles	Each	$230.00
Deleterious - Organic Impurities	Each	$140.00
Material Finer than No. 200 Sieve	Each	$85.00
Minimum & Maximum Index Density (Vibratory Table)	Each	$260.00
Moisture Content	Each	$21.00
Oversize Particle Correction	Each	$125.00
Particle Size (Gradation) - Sieve Analysis <3/4"	Each	$135.00
Particle Size (Gradation) - Sieve Analysis >3/4"	Each	$220.00
Percent Fractured Particles in Coarse Aggregate	Each	$280.00
Proctor - Modified	Each	$260.00
Proctor - Standard	Each	$220.00
Sand Equivalent of Fine Aggregate	Each	$245.00
Soundness Aggregates (Sodium or Magnesium)	Each	$305.00
Specific Gravity of Aggregate Coarse or Fine Aggregate	Each	$200.00
Uncompacted Void Content of Fine Aggregate	Each	$80.00

Asphalt Testing

Asphalt Binder Content by Ignition	Each	$150.00
Gradation of Extracted Aggregates (Includes Binder by Ignition)	Each	$200.00
Bulk Specific Gravity/ Pavement Cores (1pt)	Each	$70.00
Marshall Density (3pt)	Each	$240.00
Marshall Stability and Flow (3pt)	Each	$350.00
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	$230.00
Compressive Strength - Concrete Cores	Each	$95.00
Compressive Strength - Cube (Grout & Mortar)	Each	$45.00
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	$400.00
Measuring Thickness of Concrete Elements (Drilled Cores)	Each	$70.00
Potential Alkali Silica Reactivity (ASR)	Each	$830.00

Equipment

Core Machine/Sampling	Day	$300.00
Dynamic Cone Penetrometer (DCP)	Day	$200.00
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	$125.00
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	$1,600.00
Dispersion - Crumb	Each	$95.00
Dispersion - Pinhole	Each	$190.00
Material Finer than No. 200 Sieve	Each	$85.00
Moisture Content	Each	$21.00
Moisture Content - Microwave	Each	$50.00

One-Dimensional Consolidation Test	Each	$440.00
Organic Content - Soils	Each	$105.00
Oversize Particle Correction	Each	$125.00
Particle Size (Gradation) - Hydrometer	Each	$250.00
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	$220.00
Proctor - Standard w/Chem Additive	Each	$290.00
Swell or Collapse (One Dimensional)	Each	$315.00
Triaxial Compression – Consolidated Drained (Intact)	Each	$1,730.00
Triaxial Compression – Consolidated Drained (Remold)	Each	$1,930.00
Triaxial Compression – Consolidated Undrained (Intact)	Each	$1,575.00
Triaxial Compression – Consolidated Undrained (Remold)	Each	$1,775.00
Triaxial Compression – Unconsolidated Undrained	Each	$180.00
Unconfined Compressive Strength - Intact Rock	Each	$125.00
Unconfined Compressive Strength - Soils	Each	$85.00

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, 2026. 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.
8. Per Diem will be billed at actual cost + 15% unless otherwise specified.